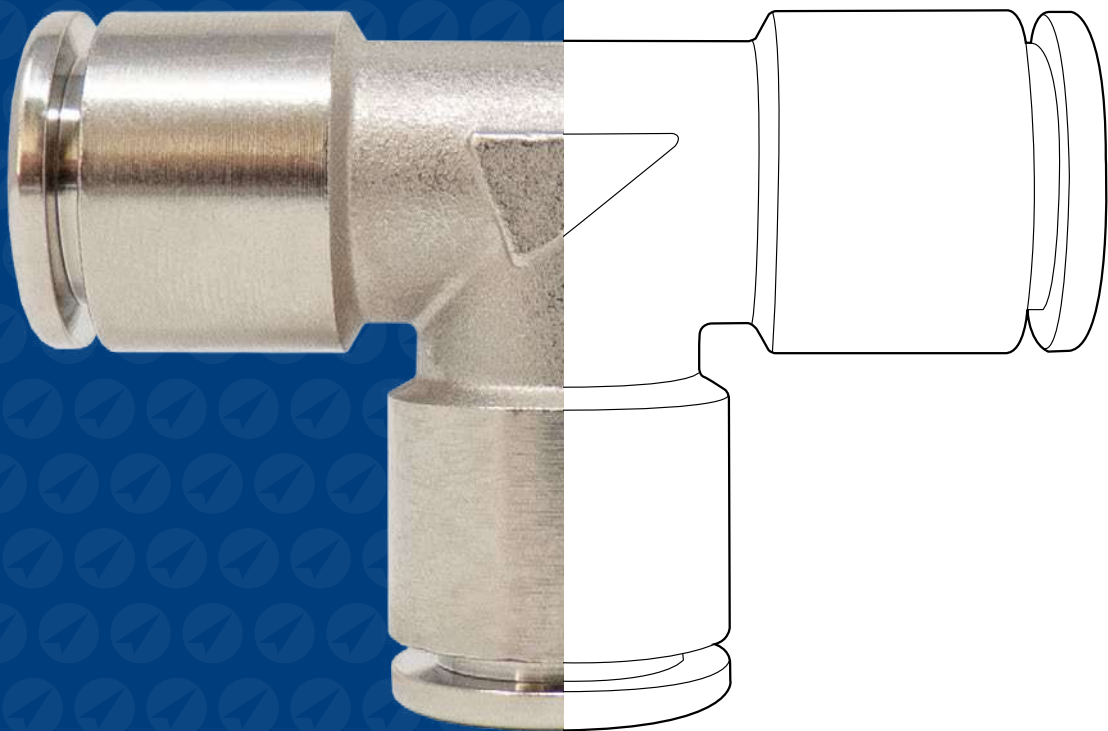


 **TierreFittings**<sup>®</sup>

INDUSTRIAL AUTOMATION - HYGIENIC&FOOD - FOOD&BEVERAGE



 **TierreGroup**<sup>®</sup>

# *TierreGroup*<sup>®</sup>

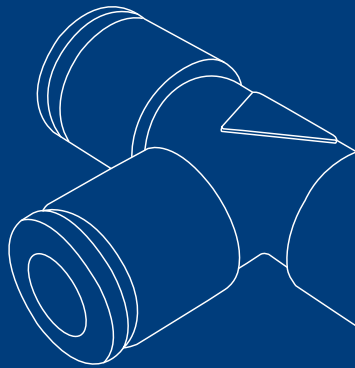
Always a fittings solution

---



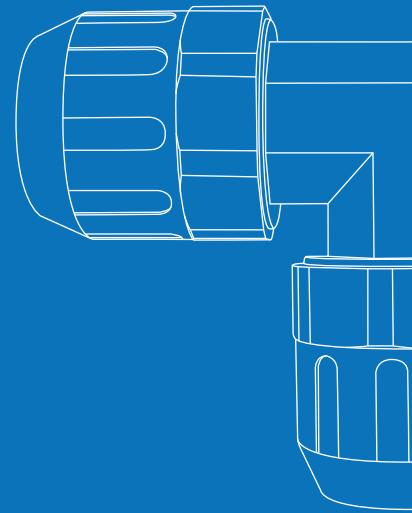
## *TierreFittings*<sup>®</sup>

INDUSTRIAL AUTOMATION  
HYGIENIC & FOOD  
FOOD & BEVERAGE



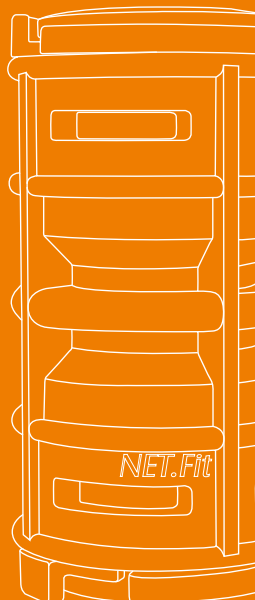
## *F-Line.PRO*<sup>®</sup>

AIR DISTRIBUTION  
NETWORKS



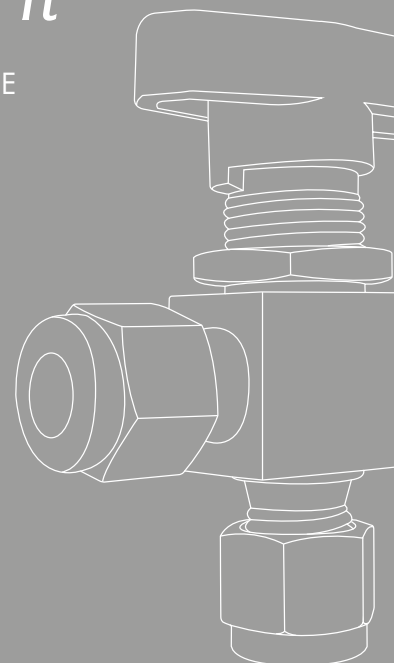
## *NET.Fit*<sup>®</sup>

PUSH-IN FITTINGS  
FOR TELECOM  
MICRODUCTS



## *INOX.Fit*<sup>®</sup>

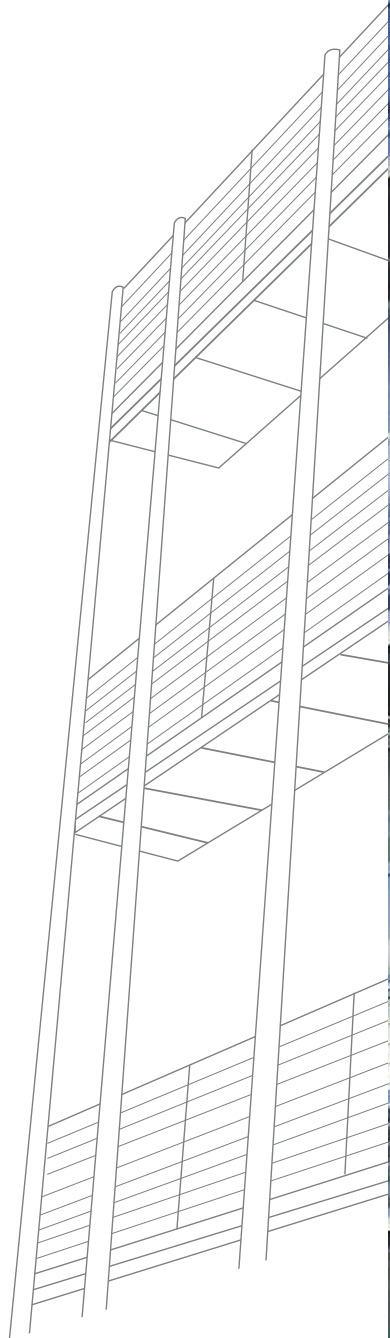
HIGH PRESSURE  
SOLUTIONS







**INDUSTRIAL AUTOMATION  
HYGIENIC & FOOD  
FOOD & BEVERAGE**



 **TierreGroup**®

 **TierreFittings**®

 **F-Line.PRO**

 **NET.Fit**®

 **INOX.Fit**®



# COMPANY PROFILE



## In the union there is our whole philosophy.

The **Tierre** story is the story of a union, or rather of many unions. A union between passions, people and ideas: it is from here that in 1998 one of the leading companies for fittings in the fields of pneumatic automation, food & beverages and telecommunications was established.

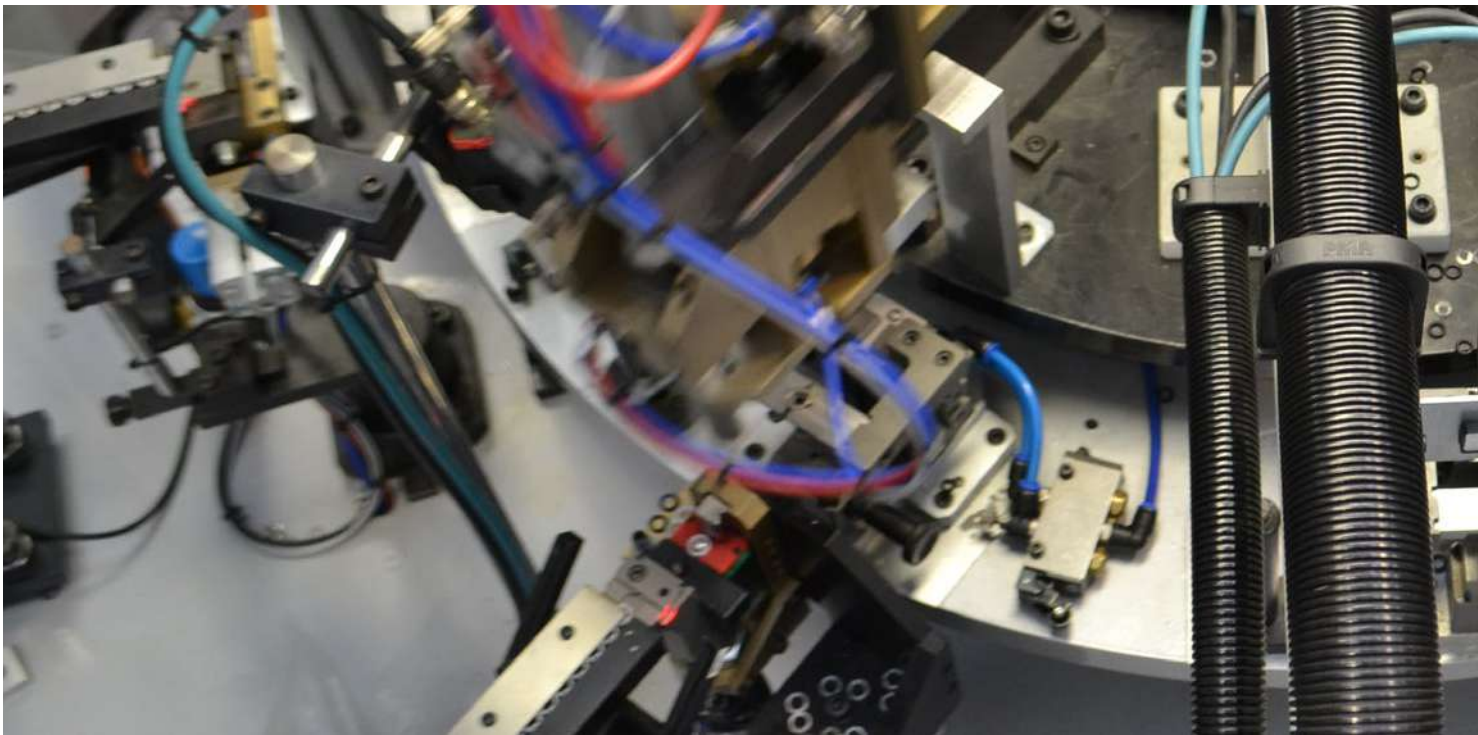
**Honesty, respect and fairness** are the core principles that make **Tierre Group** a large family.

Leading to other qualities such as reliability, punctuality and flexibility thanks to a skilled, young and focused management team. This is how the company quickly established an extensive product range capable of satisfying every need, fast delivery times and the excellent customer service.

**The secret of **Tierre Group**? The People**, making the most of them is at the centre of the company's success, because enthusiastic and motivated collaborators put heart and passion into everything they do in order to achieve the best performance and set new benchmarks.



ASSOCIAZIONE ITALIANA  
COSTRUTTORI VALVOLE E RUBINETTERIA



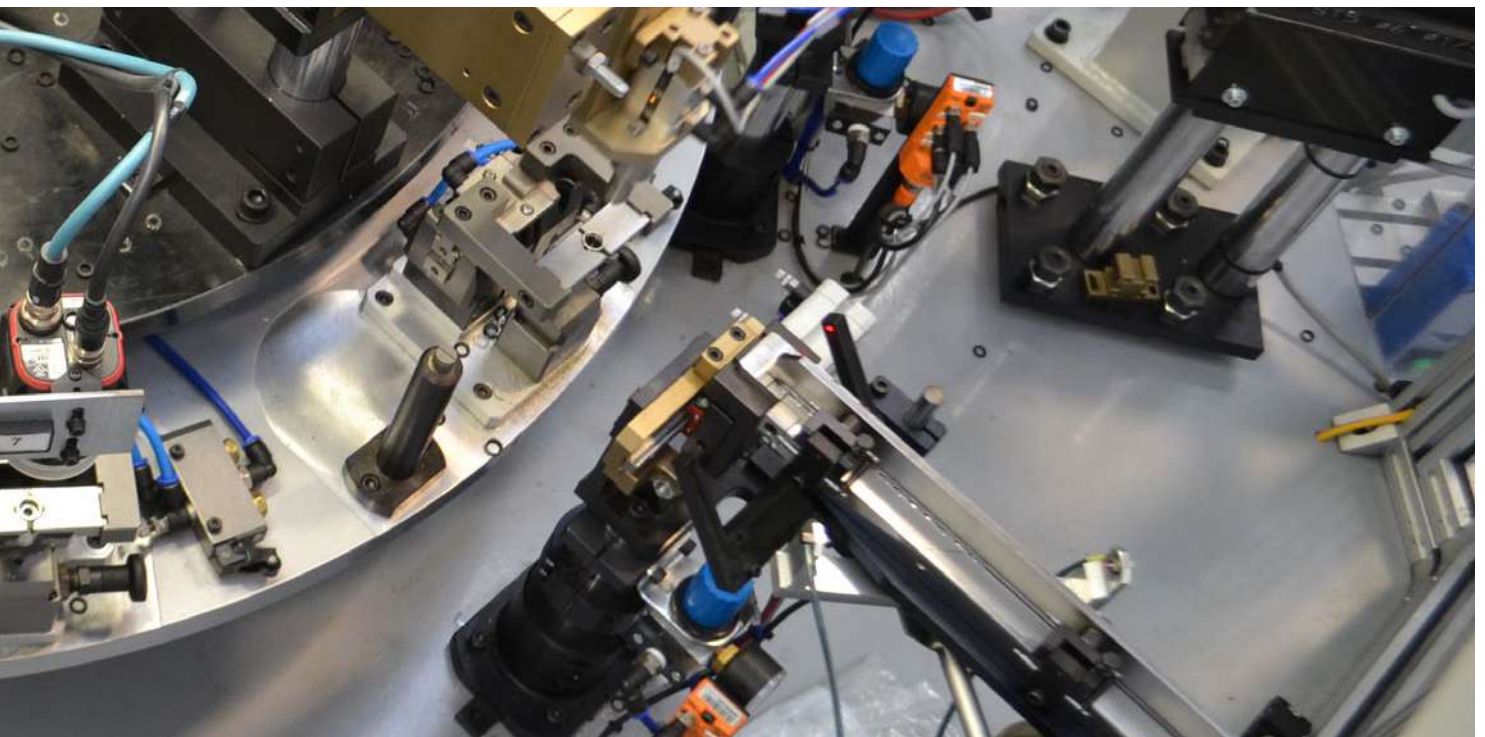


## Experience and innovation in their perfect union.

Invest today to create new possibilities tomorrow. It is with this thought process that the vision and credibility of Tierre Group is embraced. Following this philosophy, the company has gone beyond its traditional expertise in the distribution and supply of high-quality products to become a leading name in the field of fittings production.

Tierre Group responds every day to meet the specific and complex needs of its customers, **through the design and development of innovative high-performance solutions in different sectors.**

**Designing and fully realizing the components of its main product ranges** has been the key to the success of Tierre Group. This was made possible by the great resources dedicated to technological innovation. Starting from its modern high-tech offices, utilising an advanced internal management system and automatic vertical storage warehouses, up to the new manufacturing plant located in Brescia which has been the heart of the Tierre Group transformation. The ability to offer customized solutions for every specific need, together with constant technical research on materials, allows Tierre Group to obtain production efficiency and high levels of performance for all products. In addition, each process is controlled based on the most stringent Italian and European standards, which are regulated and certified internationally.







## People are the future. And the future is in people.

Since it was established, Tierre Group has never stopped growing as a result of a **team of closely-knit people, united by an infinite passion for their work.** It is from their vision, their knowledge and their dialogue that, day after day, new ideas and new paths are developed that go beyond pre-established boundaries and set ever more ambitious goals. It is with this spirit that today the company develops projects and programs aimed at **enriching and enhancing its resources by offering healthy and constructive work spaces and environments,** professional and motivational training courses and implementing programs with prestigious universities such as, the SDA Bocconi in Milan. All this, because the future of people is the future of Tierre Group.



ASSOCIAZIONE ITALIANA  
COSTRUTTORI VALVOLE E RUBINETTERIA





## Tierre Group Figures.

More than 20 years of experience, 3 Plants (Headquarters & Central Warehouse in Milano, Brass & Stainless Steel AISI 316L Production in Brescia and Plastic for Optical Fibres Production in Zhejiang China). A professional team of 50 people committed to the development of a fast growing global business with its main focus on the EMEA Area. More than 20 million pieces have been produced & distributed through a consistent & reliable network of partners, offering a high level of quality & service.



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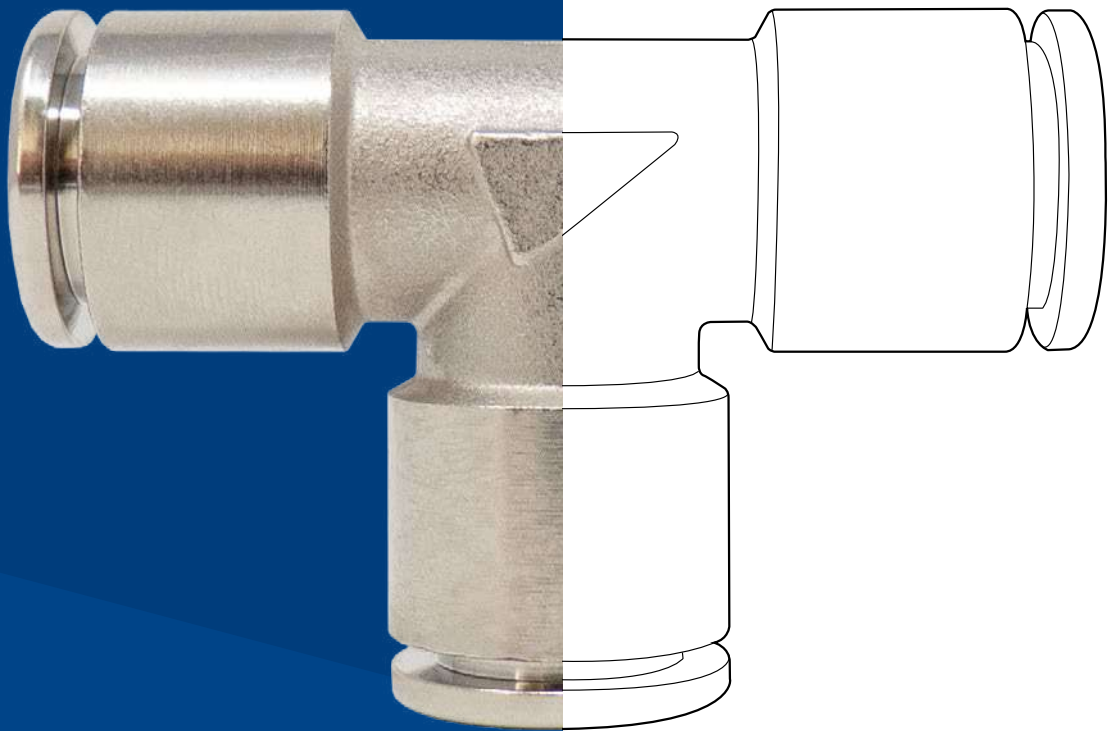
L'uni  one  
ideale tra  
tecnologia e  
performance.

**FOLLOW US!**





# PUSH-IN FITTINGS





p. 3  
**WTR SERIES**

**Materials:** Nickel-plated brass & PBT  
**Pressure:** 16 Bar  
**Temperature:** from 0°C to 60°C  
**Range:** Ø4 - Ø16 / R1/8" to R1/2"  
Ø4 - Ø16 / M5 to G1/2"



p. 31  
**COMPACT CDC PNEUMATICS**

**Materials:** Nickel-plated brass & PBT  
**Pressure:** 10 Bar  
**Temperature:** from 0°C to 60°C  
**Range:** Ø4 - Ø6 / R1/8"  
Ø3 - Ø6 / M3 to G1/8"

# TECHNICAL INDEX



p. 43  
**M SERIES**

**Materials:** Nickel-plated brass, PA66 and Stainless steel AISI 303  
**Pressure:** 20 Bar  
**Temperature:** from -20°C to 80°C  
**Range:** Ø4 - Ø12 / R1/8" to R1/2"  
Ø4 - Ø12 / M5 to G1/2"



p. 59  
**OTR SERIES**

**Materials:** Nickel-plated brass  
**Pressure:** 20 Bar  
**Temperature:** from -20°C to 80°C  
**Range:** Ø4 - Ø12 / R1/8" to R1/2"  
Ø4 - Ø12 / M5 to G1/2"



p. 73  
**FOOD GRADE HFR SERIES**



**Materials:** TEA+ plated brass  
**Pressure:** 20 Bar  
**Temperature:** from -20°C to 150°C  
**Range:** Ø4 - Ø12 / M5 to G1/2"



p. 81  
**FLUIDFIT**



**Materials:** POM  
**Pressure:** 20 Bar  
**Temperature:** from -20°C to 98°C  
**Range:** Ø4 - Ø12 / R1/8" to R1/2"  
Ø4 - Ø12 / G1/8" to G1/2"



p. 99  
**XVR SERIES**



**Materials:** Stainless steel AISI 316L  
**Pressure:** 20 Bar  
**Temperature:** from -20°C to 150°C  
**Range:** Ø4 - Ø12 / R1/8" to R1/2"  
Ø4 - Ø12 / M5 to G1/2"



p. 109  
**CDC PNEUMATICS CARTRIDGES**

**Materials:** Nickel-plated brass  
**Pressure:** 10 Bar  
**Temperature:** from 0°C to 60°C  
**Range:** Ø4 - Ø12



p. 113  
**FLUIDFIT CARTRIDGES**



**Materials:** Brass and POM  
**Pressure:** 20 Bar  
**Temperature:** from -20°C to 98°C  
**Range:** Ø4 - Ø12



# PUSH-IN FITTINGS WTR SERIES

PLUS

**COMPLETE RANGE** thanks to 20 years of experience in the industry

**HIGHEST LEVEL OF PERFORMANCES**  
working pressure up to 16 bar,  
increased working temperature from  
-20°C to 80°C

**PLASTIC STEM SYSTEM** to allow  
connection with different kind of fittings

**MADE FROM TOP QUALITY  
TECNOPOLYMERS** to guarantee long-  
lasting components

**100% LEAK-PROOF TESTED**

**IN COMPLIANCE WITH ISO 14743  
(EXCEPT Ø16)**

**SUITABLE FOR VACUUM  
APPLICATIONS**

**STATIC GRIPPING SYSTEM** in order  
to stop all movement of the tube  
when inserted, granting a leak-proof  
connection

Every fitting is **DESIGNED TO  
GUARANTEE MAXIMUM POSSIBLE  
FLOW RATE** accordingly to the  
diameter of the tube and the thread





p. 7 / **WTRC-R**



p. 8 / **WTRC-G**



p. 9 / **WTROC-R**



p. 9 / **WTROC-G**



p. 10 / **WTRCF-G**



p. 10 / **WTRMF-G**



p. 11 / **WTRMM**



p. 11 / **WTRSL-R**



p. 12 / **WTRSL-G**



p. 12 / **WTRL-R**



p. 13 / **WTRL-G**



p. 14 / **WTRLL-R**



p. 14 / **WTRLL-G**



p. 15 / **WTRLH-R**



p. 15 / **WTRLH-G**



p. 16 / **WTRLF-G**



p. 16 / **WTRLM**



p. 17 / **WTRH-R**



p. 17 / **WTRH-G**



p. 18 / **WTRHF-R**



p. 18 / **WTRHF-G**



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p. 20 / **WTRST-R**



p. 20 / **WTRST-G**



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p. 21 / **WTRWT-G**



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p. 22 / **WTRKD-G**



p. 23 / **WTRUC**



p. 23 / **WTRG**



p. 23 / **WTRUL**



p. 24 / **WTRUT**



p. 24 / **WTRGT**



p. 24 / **WTRY**



p. 24 / **WTRW**



p. 25 / **WTRZA**



p. 25 / **WTRK**



p. 25 / **WTRKG**



p. 25 / **WTRGJ**



p. 26 / **WTRLJ**



p. 26 / **WTRLGJ**



p. 26 / **WTRTJ**



p. 26 / **WTRTGJ**



p. 27 / **WTRYJ**



p. 27 / **WTRWJ**



p. 27 / **WTRKJ**



p. 27 / **WTRPF**



p. 28 / **WTRIJ**



p. 28 / **WTRIG**



p. 28 / **WTRP**

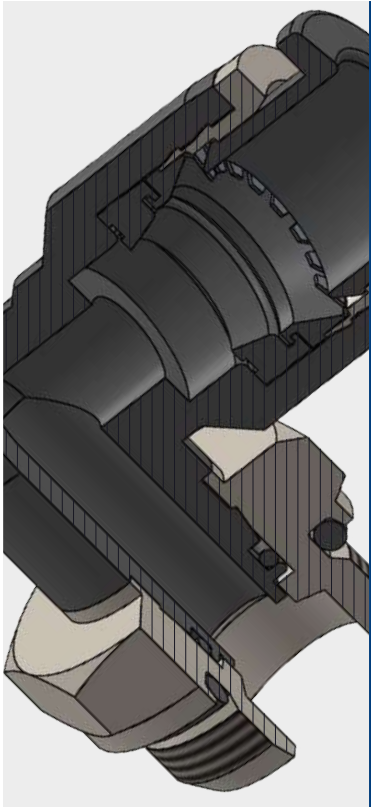


p. 28 / **WTRUC-PRD**



p. 29 / **WTRCV**





-20°C ÷ 80°C



**Working pressure:**

16 Bar

**Negative pressure:**

- 0,95 Bar (- 95 kPa)



Compressed air & Vacuum  
(do not use in water application)



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon

- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"

- Metric ISO 262  
M5, M6 and M7



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE

**AVAILABILITY**

Available with NPT thread on request



Body: Nickel-plated brass and PBT

Collet: POM

Collar: Zinc

Lock claw: Stainless steel AISI 301

Back ring: POM

Seal: NBR

O-ring: NBR

**SILICONE FREE**

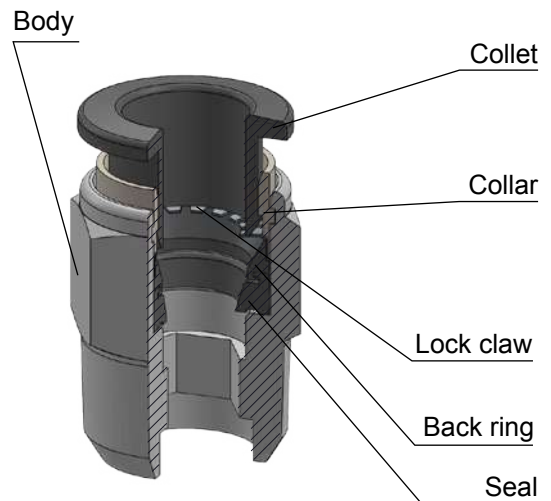
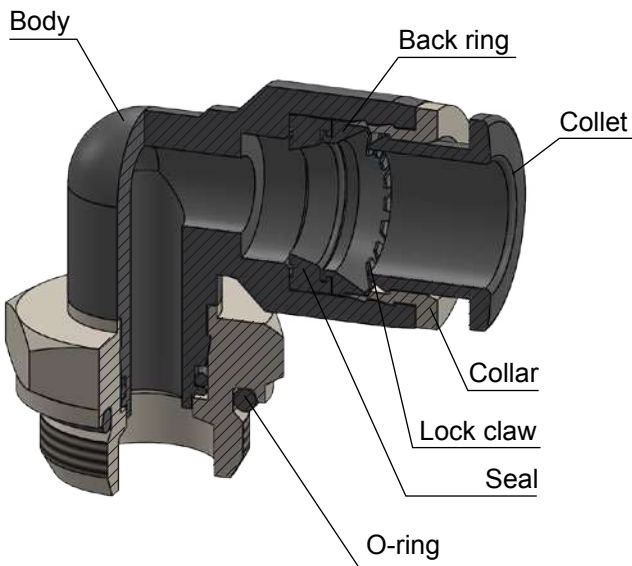


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M6x1	M7x1	1/8"	1/4"	3/8"	1/2"
Nm	1,5	2	3	6	10	18	23

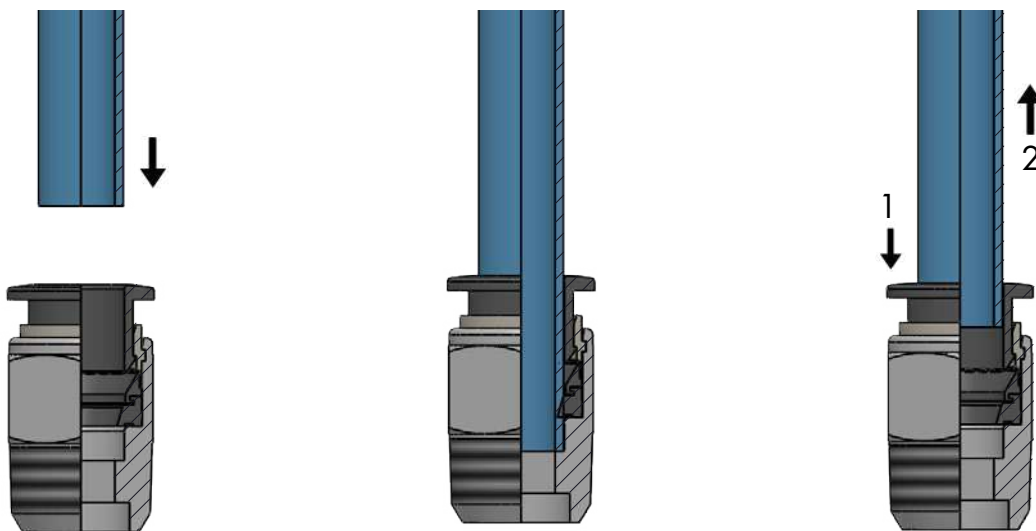


### INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

### DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



#### TOLERANCE - METRIC TUBE

Ø TUBE (mm)	4	6	8	10	12	14	16
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15	± 0,15

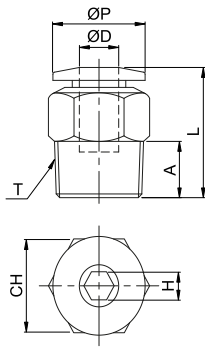
#### INSERTION DEPTH - METRIC TUBE

Ø TUBE (mm)	4	6	8	10	12	14	16
TUBE INSERTION LENGTH (mm)	15	16,5	18,8	20,1	22,9	22,9	23,6



**WTRC-R**

Male connector BSPT thread nickel-plated

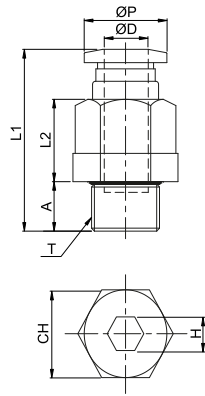


CODE	ØD	T	ØP	A	L	CH	H	g
WTRC04R01	4	R 1/8"	9,8	7	19,3	10	3	6,2
WTRC04R02		R 1/4"	9,8	9,5	17,9	14	3	9,8
WTRC06R01	6	R 1/8"	11,9	7	20,4	12	4	6,9
WTRC06R02		R 1/4"	11,9	9,5	22,7	14	4	13,3
WTRC06R03		R 3/8"	11,9	10,5	20,7	17	4	19,9
WTRC06R04		R 1/2"	11,9	13,5	24,7	21	4	39,8
WTRC08R01	8	R 1/8"	13,8	7	25,4	14	5	10
WTRC08R02		R 1/4"	13,8	9,5	24,9	14	6	11,9
WTRC08R03		R 3/8"	13,8	10,5	21,9	17	6	17,5
WTRC08R04		R 1/2"	13,8	13,5	25,9	21	6	37,6
WTRC10R01	10	R 1/8"	17,2	7	27,7	17	5	16,4
WTRC10R02		R 1/4"	17,2	9,5	29,5	17	6	18,6
WTRC10R03		R 3/8"	17,2	10,5	27	17	8	20,7
WTRC10R04		R 1/2"	17,2	13,5	25,3	21	8	34,6
WTRC12R02	12	R 1/4"	19,6	9,5	32,9	20	6	24,5
WTRC12R03		R 3/8"	19,6	10,5	29,9	20	8	25,3
WTRC12R04		R 1/2"	19,6	13,5	32,9	21	8	41
WTRC16R03	16	R 3/8"	24,3	10,5	37,6	24	8	42
WTRC16R04		R 1/2"	24,3	13,5	35,6	24	10	42,1



**WTRC-G**

Male connector BSPP & metric thread nickel-plated



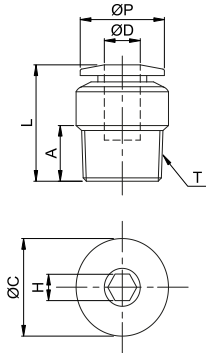
CODE	ØD	T	ØP	A	L1	L2	CH	H	g
WTRC04M5	4	M5x0,8	9,8	3,8	20,1	-	10	2	5,7
WTRC04M6		M6x1	9,8	4,5	20,8	-	10	2,5	6,1
WTRC04M7		M7x1	9,8	4,5	20,8	-	10	2,5	6,9
WTRC04G01		G 1/8"	9,8	5	19,3	7,4	10	3	7,4
WTRC04G02		G 1/4"	9,8	5,8	16,6	3,9	10	3	9,4
WTRC06M5	6	M5x0,8	11,9	3,8	21,2	-	12	2	7,4
WTRC06M6		M6x1	11,9	4,5	21,7	-	12	2,5	7
WTRC06M7		M7x1	11,9	4,5	21,7	-	12	2,5	7,2
WTRC06G01		G 1/8"	11,9	5	19,9	6,7	12	4	7,5
WTRC06G02		G 1/4"	11,9	5,8	20,4	6,4	12	4	10,8
WTRC06G03	G 3/8"	11,9	6,8	20	4,5	12	4	17	
WTRC06G04	G 1/2"	11,9	8	21,7	4,5	12	4	27,5	
WTRC08G01	8	G 1/8"	13,8	5	24,4	11,1	14	5	11,7
WTRC08G02		G 1/4"	13,8	5,8	22,2	7	14	6	11,1
WTRC08G03		G 3/8"	13,8	6,8	21,2	4,5	14	6	15,7
WTRC08G04		G 1/2"	13,8	8	22,9	4,5	14	6	27
WTRC10G01	10	G 1/8"	17,2	5	26,3	11	17	5	15,9
WTRC10G02		G 1/4"	17,2	5,8	27,5	13,9	17	6	20,4
WTRC10G03		G 3/8"	17,2	6,8	25	8,9	17	8	20,6
WTRC10G04		G 1/2"	17,2	8	22,7	4,9	17	8	28,5
WTRC12G02	12	G 1/4"	19,6	5,8	31,2	12	20	6	26,3
WTRC12G03		G 3/8"	19,6	6,8	28,2	11	20	8	24,3
WTRC12G04		G 1/2"	19,6	8	28,9	9,5	20	8	33,3
WTRC14G03	14	G 3/8"	21,8	6,8	31,8	13	21	8	30
WTRC14G04		G 1/2"	21,8	8	29,5	10	24	10	20
WTRC16G03	16	G 3/8"	24,3	6,8	34,9	14,5	24	8	42
WTRC16G04		G 1/2"	24,3	8	36,1	18	24	10	50,7





**WTROC-R**

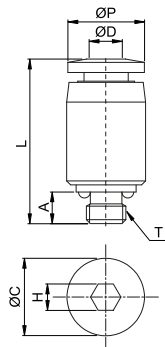
Male connector round body with internal hexagon BSPT thread nickel-plated



CODE	ØD	T	ØP	ØC	A	L	H	g
WTROC04R01	4	R 1/8"	9,8	10	7	19,3	3	5,6
WTROC04R02		R 1/4"	9,8	14	9,5	17,9	3	11,2
WTROC06R01	6	R 1/8"	11,9	12	7	20,4	4	6,3
WTROC06R02		R 1/4"	11,9	14	9,5	22,7	4	12,5
WTROC06R03		R 3/8"	11,9	17	10,5	20,7	4	19
WTROC08R01	8	R 1/8"	13,8	14	7	25,4	5	10,2
WTROC08R02		R 1/4"	13,8	14	9,5	24,9	6	13,1
WTROC08R03		R 3/8"	13,8	17	10,5	21,9	6	17,3
WTROC08R04		R 1/2"	13,8	21	13,5	25,9	6	37,9
WTROC10R01	10	R 1/8"	17,2	17	7	27,7	5	20,8
WTROC10R02		R 1/4"	17,2	17	9,5	29,5	6	22,5
WTROC10R03		R 3/8"	17,2	17	10,5	27	8	22,6
WTROC10R04		R 1/2"	17,2	21	13,5	25,3	8	34
WTROC12R02	12	R 1/4"	19,6	20	9,5	32,9	6	21,5
WTROC12R03		R 3/8"	19,6	20	10,5	29,9	8	22,2
WTROC12R04		R 1/2"	19,6	21	13,5	32,9	8	37,3

**WTROC-G**

Male connector round body with internal hexagon metric thread nickel-plated

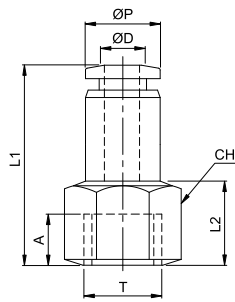


CODE	ØD	T	ØP	ØC	A	L	H	g
WTROC04M5	4	M5x0,8	9,8	10	3,8	20,1	2	5,2
WTROC04M6		M6x1	9,8	10	4,5	20,8	2	5,6
WTROC06M5	6	M5x0,8	11,9	12	3,8	21	2	6,8
WTROC06M6		M6x1	11,9	12	4,5	21,7	2	7,2



**WTRCF-G**

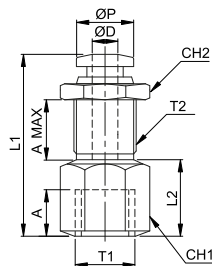
Female connector BSPP thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRCF04G01	4	G 1/8"	9,8	7	23,3	9,5	14	12,5
WTRCF04G02		G 1/4"	9,8	9	25,3	11,5	17	18
WTRCF06G01	6	G 1/8"	11,9	7	24,4	10	14	15
WTRCF06G02		G 1/4"	11,9	9	26,4	12	17	19,3
WTRCF06G03		G 3/8"	11,9	10	27,4	13	19	26,3
WTRCF08G01	8	G 1/8"	13,8	7	25,9	10	14	15,8
WTRCF08G02		G 1/4"	13,8	9	27,9	12	17	19,4
WTRCF08G03		G 3/8"	13,8	10	28,9	13	19	18,4
WTRCF08G04		G 1/2"	13,8	12	30,9	15	24	32,8
WTRCF10G01	10	G 1/8"	17,2	7	27,7	10	17	28,5
WTRCF10G02		G 1/4"	17,2	9	29,7	13,3	17	27
WTRCF10G03		G 3/8"	17,2	10	30,7	14,3	19	24,6
WTRCF10G04		G 1/2"	17,2	12	32,7	16,3	24	38,5
WTRCF12G02	12	G 1/4"	19,6	9	32,9	11	20	44,2
WTRCF12G03		G 3/8"	19,6	10	33,9	12	20	35,9
WTRCF12G04		G 1/2"	19,6	12	35,9	15,5	24	34,2

**WTRMF-G**

Bulkhead female connector BSPP thread nickel-plated

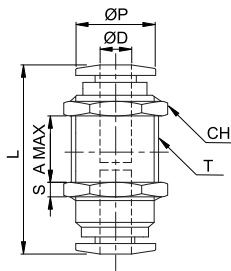


CODE	ØD	T1	T2	ØP	A	A MAX	L1	L2	CH1	CH2	g
WTRMF04G01	4	G 1/8"	M12x1	9,8	7	5,4	23,3	9,5	14	14	15,5
WTRMF04G02		G 1/4"	M12x1	9,8	9	5,4	25,4	11,6	17	14	20,4
WTRMF06G01	6	G 1/8"	M14x1	11,9	7	6,9	24,2	7	17	17	26,3
WTRMF06G02		G 1/4"	M14x1	11,9	9	6,9	29,2	12	17	17	26,5
WTRMF06G03		G 3/8"	M14x1	11,9	10	6,9	30,2	13	19	17	35,1
WTRMF08G01	8	G 1/8"	M16x1	13,8	7	9,4	26,4	5	19	19	32
WTRMF08G02		G 1/4"	M16x1	13,8	9	9,4	34,4	12	19	19	42,4
WTRMF08G03		G 3/8"	M16x1	13,8	10	9,4	34,4	13	19	19	42,4
WTRMF08G04		G 1/2"	M16x1	13,8	12	9,4	36,4	15	24	19	47,7
WTRMF10G01	10	G 1/8"	M20x1	17,2	7	9,4	29	7,7	21	24	52,8
WTRMF10G02		G 1/4"	M20x1	17,2	9	9,4	31	9,7	21	24	53,5
WTRMF10G03		G 3/8"	M20x1	17,2	10	9,4	34,3	13	21	24	53,8
WTRMF10G04		G 1/2"	M20x1	17,2	12	9,4	36,3	15	24	24	58,8
WTRMF12G02	12	G 1/4"	M22x1,5	19,6	9	10,9	33,5	9,1	24	27	68,2
WTRMF12G03		G 3/8"	M22x1,5	19,6	10	10,9	34,4	10	24	27	62,7
WTRMF12G04		G 1/2"	M22x1,5	19,6	12	10,9	39,4	15	24	27	62,3



**WTRMM**

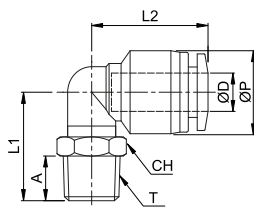
Bulkhead connector nickel-plated



CODE	ØD	T	ØP	A MAX	L	S	CH	g
WTRMM0400	4	M12x1	9,8	8,2	30,1	3,5	14	15,4
WTRMM0600	6	M14x1	11,9	8,5	31,8	4	17	21,4
WTRMM0800	8	M16x1	13,8	8,8	35,3	4,5	19	26,8
WTRMM1000	10	M20x1	17,2	11,5	39	5	24	52,7
WTRMM1200	12	M22x1	19,6	12,8	45,3	5	27	59,8

**WTRSL-R**

Short swivel male elbow BSPT thread nickel-plated

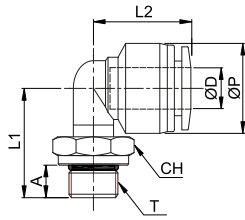


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRSL04R01	4	R 1/8"	11,1	7	16	17,5	10	5,8
WTRSL04R02		R 1/4"	11,1	9,5	19,5	17,5	14	6,3
WTRSL06R01	6	R 1/8"	13	7	17	19	10	6,4
WTRSL06R02		R 1/4"	13	9,5	20,5	19	14	12,4
WTRSL06R03		R 3/8"	13	10,5	22	19	17	14,2
WTRSL06R04		R 1/2"	13	13,5	25,5	19	21	17,3
WTRSL08R01	8	R 1/8"	15,1	7	21,3	22,8	12	11,5
WTRSL08R02		R 1/4"	15,1	9,5	21,5	22,8	14	13,3
WTRSL08R03		R 3/8"	15,1	10,5	23	22,8	17	20,3
WTRSL08R04		R 1/2"	15,1	13,5	26,5	22,8	21	21,9
WTRSL10R01	10	R 1/8"	18,8	7	25,5	26,3	14	15,4
WTRSL10R02		R 1/4"	18,8	9,5	26	26,3	14	18,4
WTRSL10R03		R 3/8"	18,8	10,5	25	26,3	17	21,9
WTRSL10R04		R 1/2"	18,8	13,5	28,5	26,3	21	24,8
WTRSL12R02	12	R 1/4"	21,5	9,5	29,5	29,6	17	33,6
WTRSL12R03		R 3/8"	21,5	10,5	26,5	29,6	17	36,2
WTRSL12R04		R 1/2"	21,5	13,5	30	29,6	21	39,5



**WTRSL-G**

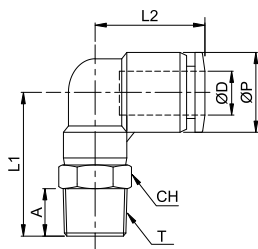
Short swivel male elbow BSPP & metric thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRSL04M5	4	M5x0,8	11,1	3,8	15,3	17,5	8	5,2
WTRSL04M7		M7x1	11,1	4,5	17	17,5	10	6,1
WTRSL04G01		G 1/8"	11,1	4,8	14,8	17,5	14	7,6
WTRSL04G02		G 1/4"	11,1	5,5	16	17,5	17	11,3
WTRSL06M5	6	M5x0,8	13	3,8	15,3	19	8	5,8
WTRSL06M7		M7x1	13	4,5	17	19	10	6,7
WTRSL06G01		G 1/8"	13	4,8	15,8	19	14	8,3
WTRSL06G02		G 1/4"	13	5,5	17	19	17	13,3
WTRSL06G03	6	G 3/8"	13	6,5	18,5	19	20	16,8
WTRSL06G04		G 1/2"	13	7,5	19,5	19	24	20,1
WTRSL08G01		G 1/8"	15,1	4,8	20	22,8	14	11,9
WTRSL08G02		G 1/4"	15,1	5,5	18	22,8	17	13,8
WTRSL08G03	8	G 3/8"	15,1	6,5	19,5	22,8	20	21,2
WTRSL08G04		G 1/2"	15,1	7,5	20,5	22,8	24	23,9
WTRSL10G01		G 1/8"	18,8	4,8	24,3	26,3	14	21,3
WTRSL10G02		G 1/4"	18,8	5,5	23,1	26,3	17	24,3
WTRSL10G03	10	G 3/8"	18,8	6,5	21,5	26,3	20	27,6
WTRSL10G04		G 1/2"	18,8	7,5	22,5	26,3	24	31,2
WTRSL12G02		G 1/4"	21,5	5,5	26,5	29,6	17	33,8
WTRSL12G03		G 3/8"	21,5	6,5	23	29,6	20	35,6
WTRSL12G04	12	G 1/2"	21,5	7,5	24	29,6	24	39,8

**WTRL-R**

Swivel male elbow BSPT thread nickel-plated

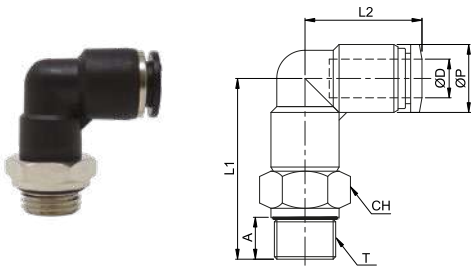


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRLO4R01	4	R 1/8"	11,1	7	23,5	17,5	10	8,1
WTRLO4R02		R 1/4"	11,1	9,5	27	17,5	14	13,9
WTRLO6R01	6	R 1/8"	13	7	25,2	19	12	11,5
WTRLO6R02		R 1/4"	13	9,5	28,2	19	14	16,5
WTRLO6R03		R 3/8"	13	10,5	29,7	19	17	22,6
WTRLO6R04		R 1/2"	13	13,5	33,2	19	21	35,9
WTRLO8R01	8	R 1/8"	15,1	7	26,5	22,8	14	17,6
WTRLO8R02		R 1/4"	15,1	9,5	29	22,8	14	17,7
WTRLO8R03		R 3/8"	15,1	10,5	30,5	22,8	17	25,3
WTRLO8R04		R 1/2"	15,1	13,5	34	22,8	21	38,2
WTRL10R01	10	R 1/8"	18,8	7	29,5	26,3	17	30,7
WTRL10R02		R 1/4"	18,8	9,5	32	26,3	17	31,4
WTRL10R03		R 3/8"	18,8	10,5	33	26,3	17	30,8
WTRL10R04		R 1/2"	18,8	13,5	36,5	26,3	21	47,3
WTRL12R02	12	R 1/4"	21,5	9,5	35,5	29,6	20	44,3
WTRL12R03		R 3/8"	21,5	10,5	36,5	29,6	20	46,7
WTRL12R04		R 1/2"	21,5	13,5	39,5	29,6	21	51,2
WTRL14R03	14	R 3/8"	23,2	10,5	41,5	31,7	21	53
WTRL14R04		R 1/2"	23,2	13,5	45,5	31,7	24	62
WTRL16R03	16	R 3/8"	26	10,5	43	33	24	67,6
WTRL16R04		R 1/2"	26	13,5	46	33	24	72,8



**WTRL-G**

## Swivel male elbow BSPP &amp; metric thread nickel-plated

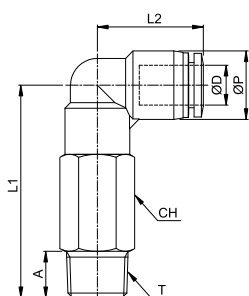


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRL04M5	4	M5x0,8	11,1	3,8	17,3	17,5	8	5,1
WTRL04M6		M6x1	11,1	4,5	18	17,5	8	5,3
WTRL04G01		G 1/8"	11,1	5	24	17,5	14	11,8
WTRL04G02		G 1/4"	11,1	5,8	25,3	17,5	17	17,9
WTRL06M5	6	M5x0,8	13	3,8	17,3	19	8	5,8
WTRL06M6		M6x1	13	4,5	18	19	8	6
WTRL06G01		G 1/8"	13	5	25,2	19	14	14,6
WTRL06G02		G 1/4"	13	5,8	26,5	19	17	17,5
WTRL06G03	6	G 3/8"	13	6,8	28	19	20	24,4
WTRL06G04		G 1/2"	13	8	29,2	19	24	38,4
WTRL08G01	8	G 1/8"	15,1	5	26	22,8	14	17,5
WTRL08G02		G 1/4"	15,1	5,8	27,3	22,8	17	20,5
WTRL08G03		G 3/8"	15,1	6,8	28,8	22,8	20	26,6
WTRL08G04		G 1/2"	15,1	8	30	22,8	24	36,8
WTRL10G01	10	G 1/8"	18,8	5	29	26,3	17	31,2
WTRL10G02		G 1/4"	18,8	5,8	29,8	26,3	17	30,5
WTRL10G03		G 3/8"	18,8	6,8	31,3	26,3	20	34,6
WTRL10G04		G 1/2"	18,8	8	33,5	26,3	24	47,3
WTRL12G02	12	G 1/4"	21,5	5,8	33,8	29,6	20	43,9
WTRL12G03		G 3/8"	21,5	6,8	34,8	29,6	20	44,5
WTRL12G04		G 1/2"	21,5	8	36,5	29,6	24	51,8
WTRL14G03	14	G 3/8"	23,2	6,8	39,8	31,7	21	52
WTRL14G04		G 1/2"	23,2	8	41,5	31,7	24	61
WTRL16G03	16	G 3/8"	26	6,8	40,8	33	24	64
WTRL16G04		G 1/2"	26	8	42	33	24	66,5



**WTRLL-R**

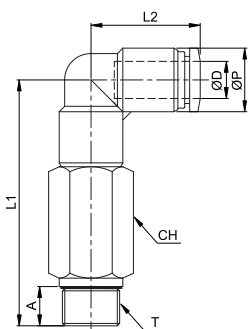
Long swivel male elbow BSPT thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRLL04R01	4	R 1/8"	11,1	7	35,5	17,5	10	14,2
WTRLL04R02		R 1/4"	11,1	9,5	39	17,5	14	26,2
WTRLL06R01	6	R 1/8"	13	7	39,2	19	12	22
WTRLL06R02		R 1/4"	13	9,5	42,2	19	14	29,2
WTRLL06R03		R 3/8"	13	10,5	43,7	19	17	39,4
WTRLL06R04	6	R 1/2"	13	13,5	47,2	19	21	62,9
WTRLL08R01	8	R 1/8"	15,1	7	41,8	22,8	14	34,6
WTRLL08R02		R 1/4"	15,1	9,5	44,3	22,8	14	33,1
WTRLL08R03		R 3/8"	15,1	10,5	45,8	22,8	17	45,6
WTRLL08R04	8	R 1/2"	15,1	13,5	49,3	22,8	21	70,1
WTRLL10R01	10	R 1/8"	18,8	7	49,5	26,3	17	61,2
WTRLL10R02		R 1/4"	18,8	9,5	52	26,3	17	62,5
WTRLL10R03		R 3/8"	18,8	10,5	53	26,3	17	56,7
WTRLL10R04	10	R 1/2"	18,8	13,5	56,5	26,3	21	87,2
WTRLL12R02	12	R 1/4"	21,5	9,5	58,5	29,6	20	86,7
WTRLL12R03		R 3/8"	21,5	10,5	59,5	29,6	20	100,7
WTRLL12R04		R 1/2"	21,5	13,5	62,5	29,6	21	89,7

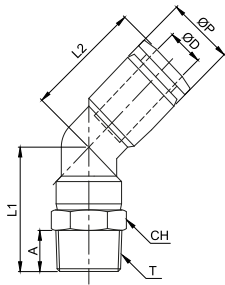
**WTRLL-G**

Long swivel male elbow BSPP & metric thread nickel-plated

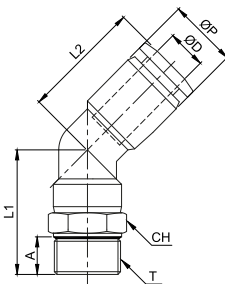


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRLL04M5	4	M5x0,8	11,1	3,8	29,3	17,5	8	10,4
WTRLL04M6		M6x1	11,1	4,5	30	17,5	8	10,8
WTRLL04G01		G 1/8"	11,1	5	36	17,5	14	25,9
WTRLL04G02		G 1/4"	11,1	5,8	37,3	17,5	17	26,6
WTRLL06M5	6	M5x0,8	13	3,8	31,3	19	8	11,4
WTRLL06M6		M6x1	13	4,5	32	19	8	11,8
WTRLL06G01		G 1/8"	13	5	39,2	19	14	30,5
WTRLL06G02		G 1/4"	13	5,8	40,5	19	17	43,3
WTRLL06G03	6	G 3/8"	13	6,8	42	19	20	57
WTRLL06G04	6	G 1/2"	13	8	43,2	19	24	91,5
WTRLL08G01	8	G 1/8"	15,1	5	41,3	22,8	14	35,4
WTRLL08G02		G 1/4"	15,1	5,8	42,6	22,8	17	48
WTRLL08G03		G 3/8"	15,1	6,8	44,1	22,8	20	60,3
WTRLL08G04		G 1/2"	15,1	8	45,3	22,8	24	93,7
WTRLL10G01	10	G 1/8"	18,8	5	49	26,3	17	61,8
WTRLL10G02		G 1/4"	18,8	5,8	49,8	26,3	17	68,7
WTRLL10G03		G 3/8"	18,8	6,8	51,3	26,3	20	78,7
WTRLL10G04		G 1/2"	18,8	8	53,5	26,3	24	105,8
WTRLL12G02	12	G 1/4"	21,5	5,8	56,8	29,6	20	98,1
WTRLL12G03		G 3/8"	21,5	6,8	57,8	29,6	20	101,9
WTRLL12G04		G 1/2"	21,5	8	59,5	29,6	24	124,3



**WTRLH-R****Swivel male elbow 45° BSPT thread nickel-plated**

CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRLH04R01	4	R 1/8"	11,1	7	22,2	16,2	10	8
WTRLH04R02		R 1/4"	11,1	9,5	25,7	16,2	14	13,8
WTRLH06R01	6	R 1/8"	13	7	23,9	17,7	12	11
WTRLH06R02		R 1/4"	13	9,5	26,9	17,7	14	16
WTRLH06R03		R 3/8"	13	10,5	28,4	17,7	17	22,2
WTRLH06R04		R 1/2"	13	13,5	31,9	17,7	21	35,4
WTRLH08R01	8	R 1/8"	15,1	7	27,1	20,9	14	17,3
WTRLH08R02		R 1/4"	15,1	9,5	29,6	20,9	14	17,4
WTRLH08R03		R 3/8"	15,1	10,5	31,1	20,9	17	25
WTRLH08R04		R 1/2"	15,1	13,5	34,6	20,9	21	37,9
WTRLH10R01	10	R 1/8"	18,8	7	29,7	22,2	17	30
WTRLH10R02		R 1/4"	18,8	9,5	32,2	22,2	17	30,7
WTRLH10R03		R 3/8"	18,8	10,5	33,2	22,2	17	30,1
WTRLH10R04		R 1/2"	18,8	13,5	36,7	22,2	21	46,6
WTRLH12R02	12	R 1/4"	21,5	9,5	35,2	26,3	20	42,6
WTRLH12R03		R 3/8"	21,5	10,5	36,2	26,3	20	45
WTRLH12R04		R 1/2"	21,5	13,5	39,2	26,3	21	49,5

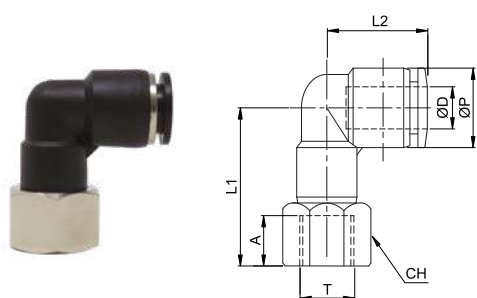
**WTRLH-G****Swivel male elbow 45° BSPP & metric thread nickel-plated**

CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRLH04M5	4	M5x0,8	11,1	3,8	20	16,2	10	8,1
WTRLH04M6		M6x1	11,1	4,5	20,7	16,2	10	8,3
WTRLH04G01		G 1/8"	11,1	5	22,7	16,2	14	11,7
WTRLH04G02		G 1/4"	11,1	5,8	24	16,2	17	17,8
WTRLH06M5	6	M5x0,8	13	3,8	21,7	17,7	12	10,8
WTRLH06M6		M6x1	13	4,5	22,4	17,7	12	11,5
WTRLH06G01		G 1/8"	13	5	23,9	17,7	14	14,2
WTRLH06G02		G 1/4"	13	5,8	25,2	17,7	17	17,5
WTRLH06G03	6	G 3/8"	13	6,8	26,7	17,7	20	24
WTRLH06G04		G 1/2"	13	8	27,9	17,7	24	38
WTRLH08G01	8	G 1/8"	15,1	5	26,6	20,9	14	17,2
WTRLH08G02		G 1/4"	15,1	5,8	27,9	20,9	17	20,2
WTRLH08G03		G 3/8"	15,1	6,8	29,4	20,9	20	26,3
WTRLH08G04		G 1/2"	15,1	8	30,6	20,9	24	36,5
WTRLH10G01	10	G 1/8"	18,8	5	29,2	22,2	17	30,6
WTRLH10G02		G 1/4"	18,8	5,8	30	22,2	17	29,9
WTRLH10G03		G 3/8"	18,8	6,8	31,5	22,2	20	34
WTRLH10G04		G 1/2"	18,8	8	33,7	22,2	24	46,7
WTRLH12G02	12	G 1/4"	21,5	5,8	33,5	26,3	20	42,4
WTRLH12G03		G 3/8"	21,5	6,8	34,5	26,3	20	43
WTRLH12G04		G 1/2"	21,5	8	36,2	26,3	24	50,3



**WTRLF-G**

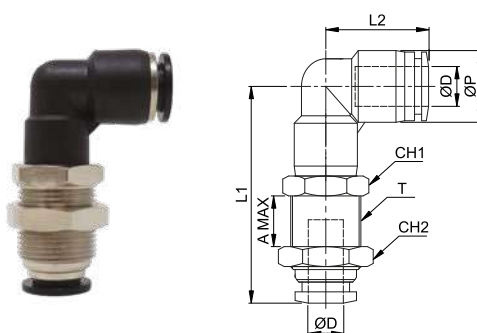
Swivel female elbow BSPP & metric thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRLF04M5	4	M5x0,8	11,1	4,5	19,5	17,5	10	7,4
WTRLF04M6		M6x1	11,1	5	20	17,5	10	7,2
WTRLF04G01		G 1/8"	11,1	7	23	17,5	14	13,9
WTRLF04G02		G 1/4"	11,1	9	25	17,5	17	18,2
WTRLF06M5	6	M5x0,8	13	4,5	20,7	19	12	10,6
WTRLF06M6		M6x1	13	5	21,2	19	12	10,4
WTRLF06G01		G 1/8"	13	7	24,4	19	14	16,4
WTRLF06G02		G 1/4"	13	9	26,4	19	17	21,3
WTRLF06G03	8	G 3/8"	13	10	27,7	19	19	30
WTRLF08G01		G 1/8"	15,1	7	24,8	22,8	14	19,4
WTRLF08G02		G 1/4"	15,1	9	27	22,8	17	24,1
WTRLF08G03		G 3/8"	15,1	10	28,5	22,8	19	32,4
WTRLF08G04	10	G 1/2"	15,1	12	30,5	22,8	24	41,6
WTRLF10G01		G 1/8"	18,8	7	23	26,3	17	27,7
WTRLF10G02		G 1/4"	18,8	9	29,5	26,3	17	33,8
WTRLF10G03		G 3/8"	18,8	10	31	26,3	19	34,3
WTRLF10G04	12	G 1/2"	18,8	12	33,5	26,3	24	51,2
WTRLF12G02		G 1/4"	21,5	9	26	29,6	21	36,7
WTRLF12G03		G 3/8"	21,5	10	34	29,6	21	49,2
WTRLF12G04		G 1/2"	21,5	12	36,5	29,6	24	54,7

**WTRLM**

Bulkhead swivel elbow nickel-plated



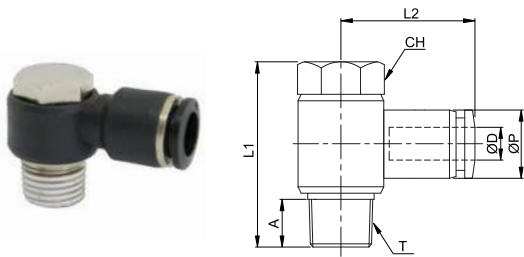
CODE	ØD	T	ØP	A MAX	L1	L2	CH1	CH2	g
WTRLM04	4	M12x1	11,1	4,1	28,5	17,5	14	14	15
WTRLM06	6	M14x1	13	5,7	34,1	19	17	17	27,2
WTRLM08	8	M16x1	15,1	7,2	40,6	22,8	17	19	38
WTRLM10	10	M20x1	18,8	7,4	45,5	26,3	21	24	55
WTRLM12	12	M22x1	21,5	9,7	51,6	29,6	24	27	85





**WTRH-R**

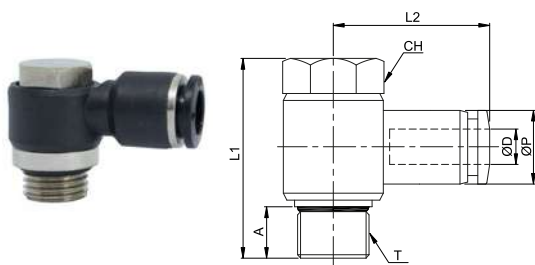
## Swivel male banjo elbow BSPT thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRH04R01	4	R 1/8"	11,1	7	23	22,3	10	10,5
WTRH04R02		R 1/4"	11,1	9,5	26,3	24	14	21,9
WTRH06R01	6	R 1/8"	13	7	23	23,1	10	11
WTRH06R02		R 1/4"	13	9,5	26,3	25,1	14	22,5
WTRH06R03		R 3/8"	13	10,5	31,9	26,8	19	37,8
WTRH08R01	8	R 1/8"	15,1	7	23	25,6	10	11,8
WTRH08R02		R 1/4"	15,1	9,5	26,3	28,6	14	23,3
WTRH08R03		R 3/8"	15,1	10,5	31,9	29,6	19	38,4
WTRH08R04		R 1/2"	15,1	13,5	38,6	32,6	24	75,4
WTRH10R02	10	R 1/4"	18,8	9,5	26,3	31	14	26,7
WTRH10R03		R 3/8"	18,8	10,5	31,9	31,6	19	41,8
WTRH10R04		R 1/2"	18,8	13,5	38,6	34,6	24	78,8
WTRH12R02	12	R 1/4"	21,5	9,5	26,3	33,5	14	28,2
WTRH12R03		R 3/8"	21,5	10,5	31,9	35,6	19	43,4
WTRH12R04		R 1/2"	21,5	13,5	38,6	36,6	24	80,3

**WTRH-G**

## Swivel male banjo elbow BSPP &amp; metric thread nickel-plated

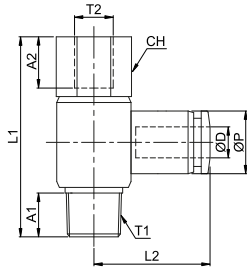


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRH04M5	4	M5x0,8	11,1	4	18	20	8	6,6
WTRH04M6		M6x1	11,1	4,5	18,5	20	8	11,8
WTRH04G01		G 1/8"	11,1	5	22,5	22,3	10	11,5
WTRH06M5	6	M5x0,8	13	4	18	21,9	8	7,2
WTRH06M6		M6x1	13	4,5	18,5	21,9	8	12,4
WTRH06G01		G 1/8"	13	5	22,5	23,1	10	12
WTRH06G02		G 1/4"	13	5,8	26,2	25,1	14	23
WTRH08G01	8	G 1/8"	15,1	5	22,5	25,6	10	12,8
WTRH08G02		G 1/4"	15,1	5,8	26,2	28,6	14	23,8
WTRH08G03		G 3/8"	15,1	6,8	31,7	29,6	19	40,9
WTRH10G02	10	G 1/4"	18,8	5,8	26,2	31	14	27,2
WTRH10G03		G 3/8"	18,8	6,8	31,7	31,6	19	44,3
WTRH12G03	12	G 3/8"	21,5	6,8	31,7	35,6	19	45,9
WTRH12G04		G 1/2"	21,5	8	37,1	36,6	24	79,3



**WTRHF-R**

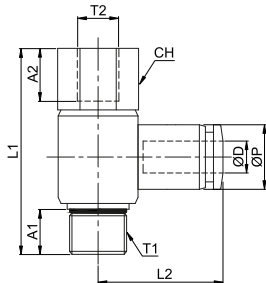
Swivel female banjo elbow BSPT thread nickel-plated



CODE	ØD	T1	T2	ØP	A1	A2	L1	L2	CH	g
WTRHF04R01	4	R 1/8"	G 1/8"	11,1	7	7	29	22,3	14	16,4
WTRHF04R02		R 1/4"	G 1/4"	11,1	9,5	9	33,3	24,1	17	27,4
WTRHF06R01	6	R 1/8"	G 1/8"	13	7	7	29	23,1	14	17
WTRHF06R02		R 1/4"	G 1/4"	13	9,5	9	33,3	25,1	17	28
WTRHF06R03		R 3/8"	G 3/8"	13	10,5	10	39,9	26,8	19	44,8
WTRHF08R01	8	R 1/8"	G 1/8"	15,1	7	7	29	25,6	14	17,8
WTRHF08R02		R 1/4"	G 1/4"	15,1	9,5	9	33,3	28,6	17	28,8
WTRHF08R03		R 3/8"	G 3/8"	15,1	10,5	10	39,9	29,6	19	45,4
WTRHF08R04		R 1/2"	G 1/2"	15,1	13,5	12	46,5	32,6	24	71,9
WTRHF10R02	10	R 1/4"	G 1/4"	18,8	9,5	9	33,3	31	17	32,2
WTRHF10R03		R 3/8"	G 3/8"	18,8	10,5	10	39,9	31,6	19	48,8
WTRHF10R04		R 1/2"	G 1/2"	18,8	13,5	12	46,5	34,6	24	75,3
WTRHF12R02	12	R 1/4"	G 1/4"	21,5	9,5	9	33,3	33,5	17	33,7
WTRHF12R03		R 3/8"	G 3/8"	21,5	10,5	10	39,9	35,6	19	50,4
WTRHF12R04		R 1/2"	G 1/2"	21,5	13,5	12	46,5	36,6	24	76,8

**WTRHF-G**

Swivel female banjo elbow BSPP & metric thread nickel-plated

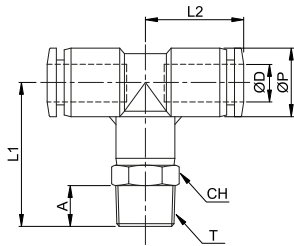


CODE	ØD	T1	T2	ØP	A1	A2	L1	L2	CH	g
WTRHF04M5	4	M5x0,8	M5x0,8	11,1	4	5,5	20,5	20	10	8,3
WTRHF04M6		M6x1	M6x1	11,1	4,5	6	21	20	10	8,3
WTRHF04G01		G 1/8"	G 1/8"	11,1	5,5	7	30	22,3	14	18,4
WTRHF06M5	6	M5x0,8	M5x0,8	13	4	5,5	20,5	21,9	10	8,9
WTRHF06M6		M6x1	M6x1	13	4,5	6	21	21,9	10	8,9
WTRHF06G01		G 1/8"	G 1/8"	13	5,5	7	30	23,1	14	19
WTRHF06G02		G 1/4"	G 1/4"	13	6,5	9	33,7	25,1	17	30,5
WTRHF08G01	8	G 1/8"	G 1/8"	15,1	5,5	7	30	25,6	14	19,8
WTRHF08G02		G 1/4"	G 1/4"	15,1	6,5	9	33,7	28,6	17	31,3
WTRHF08G03		G 3/8"	G 3/8"	15,1	7,5	10	39,7	29,6	19	47,9
WTRHF10G02	10	G 1/4"	G 1/4"	18,8	6,5	9	33,7	31,1	17	34,7
WTRHF10G03		G 3/8"	G 3/8"	18,8	7,5	10	39,7	31,6	19	51,3
WTRHF12G03	12	G 3/8"	G 3/8"	21,5	7,5	10	39,7	35,6	19	52,9
WTRHF12G04		G 1/2"	G 1/2"	21,5	9	12	45	36,6	24	77,3



**WTRT-R**

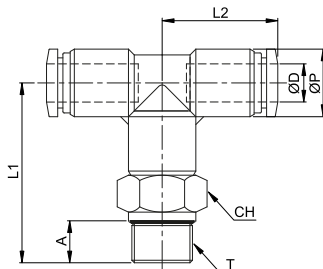
Swivel male central tee BSPT thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRT04R01	4	R 1/8"	11,1	7	24,5	18,5	10	10,5
WTRT04R02		R 1/4"	11,1	9,5	28	18,5	14	16,3
WTRT06R01	6	R 1/8"	13	7	25,5	19,3	12	14,1
WTRT06R02		R 1/4"	13	9,5	28,5	19,3	14	19,1
WTRT06R03		R 3/8"	13	10,5	30	19,3	17	25,2
WTRT06R04		R 1/2"	13	13,5	33,5	19,3	21	38,5
WTRT08R01	8	R 1/8"	15,1	7	29	22,7	14	20,9
WTRT08R02		R 1/4"	15,1	9,5	31,4	22,7	14	21
WTRT08R03		R 3/8"	15,1	10,5	32,9	22,7	17	28,6
WTRT08R04		R 1/2"	15,1	13,5	36,4	22,7	21	41,5
WTRT10R01	10	R 1/8"	18,8	7	34,5	27	17	37,9
WTRT10R02		R 1/4"	18,8	9,5	37	27	17	38,6
WTRT10R03		R 3/8"	18,8	10,5	38	27	17	38
WTRT10R04		R 1/2"	18,8	13,5	41,5	27	21	54,5
WTRT12R02	12	R 1/4"	21,5	9,5	38,5	29,6	20	52,8
WTRT12R03		R 3/8"	21,5	10,5	39,5	29,6	20	55,2
WTRT12R04		R 1/2"	21,5	13,5	42,5	29,6	21	59,7
WTRT16R03	16	R 3/8"	26	10,5	43	33	24	81
WTRT16R04		R 1/2"	26	13,5	46	33	24	85,5

**WTRT-G**

Swivel male central tee BSPP & metric thread nickel-plated

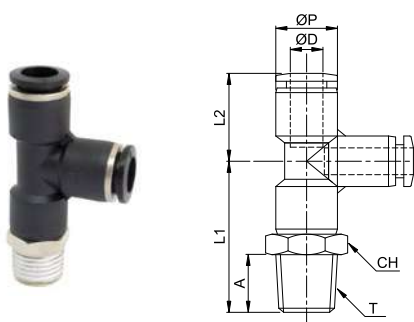


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRT04M5	4	M5x0,8	11,1	3,8	22,3	18,5	10	10,6
WTRT04M6		M6x1	11,1	4,5	23	18,5	10	10,8
WTRT04G01		G 1/8"	11,1	5	25	18,5	14	14,2
WTRT04G02		G 1/4"	11,1	5,8	26,3	18,5	17	20,3
WTRT06M5	6	M5x0,8	13	3,8	23,3	19,3	12	13,9
WTRT06M6		M6x1	13	4,5	24	19,3	12	14,6
WTRT06G01		G 1/8"	13	5	25,5	19,3	14	17,2
WTRT06G02		G 1/4"	13	5,8	26,8	19,3	17	20,5
WTRT06G03	6	G 3/8"	13	6,8	28,3	19,3	20	27
WTRT06G04		G 1/2"	13	8	29,5	19,3	24	41
WTRT08G01		G 1/8"	15,1	5	28,4	22,7	14	20,8
WTRT08G02		G 1/4"	15,1	5,8	29,7	22,7	17	23,8
WTRT08G03	8	G 3/8"	15,1	6,8	31,2	22,7	20	29,9
WTRT08G04		G 1/2"	15,1	8	32,4	22,7	24	40,1
WTRT10G01		G 1/8"	18,8	5	34	27	17	38,4
WTRT10G02		G 1/4"	18,8	5,8	34,8	27	17	37,7
WTRT10G03	10	G 3/8"	18,8	6,8	36,3	27	20	41,8
WTRT10G04		G 1/2"	18,8	8	38,5	27	24	54,5
WTRT12G02	12	G 1/4"	21,5	5,8	36,8	29,6	21	52,4
WTRT12G03		G 3/8"	21,5	6,8	37,8	29,6	21	53
WTRT12G04		G 1/2"	21,5	8	39,5	29,6	24	60,3
WTRT14G03	14	G 3/8"	23,2	6,8	39,8	31,7	21	61
WTRT14G04		G 1/2"	23,2	8	41,5	31,7	24	69
WTRT16G03	16	G 3/8"	26	6,8	40,8	33	24	76,6
WTRT16G04		G 1/2"	26	8	42	33	24	79,4



**WTRST-R**

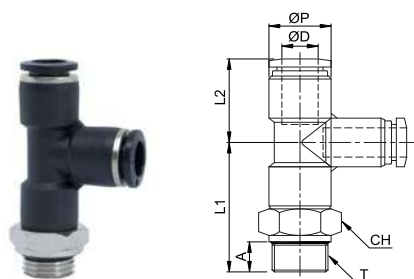
Swivel lateral male tee BSPT thread nickel-plated



CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRST04R01	4	R 1/8"	11,1	7	24,5	18,5	10	10,5
WTRST04R02		R 1/4"	11,1	9,5	28	18,5	14	16,3
WTRST06R01	6	R 1/8"	13	7	25,5	19,3	12	14,1
WTRST06R02		R 1/4"	13	9,5	28,5	19,3	14	19,1
WTRST06R03		R 3/8"	13	10,5	30	19,3	17	25,2
WTRST06R04	6	R 1/2"	13	13,5	33,5	19,3	21	38,5
WTRST08R01	8	R 1/8"	15,1	7	29	22,7	14	20,9
WTRST08R02		R 1/4"	15,1	9,5	31,4	22,7	14	21
WTRST08R03		R 3/8"	15,1	10,5	32,9	22,7	17	28,6
WTRST08R04		R 1/2"	15,1	13,5	36,4	22,7	21	41,5
WTRST10R01	10	R 1/8"	18,8	7	34,5	27	17	37,9
WTRST10R02		R 1/4"	18,8	9,5	37	27	17	38,6
WTRST10R03		R 3/8"	18,8	10,5	38	27	17	38
WTRST10R04		R 1/2"	18,8	13,5	41,5	27	21	54,5
WTRST12R02	12	R 1/4"	21,5	9,5	38,5	29,6	20	52,8
WTRST12R03		R 3/8"	21,5	10,5	39,5	29,6	20	55,2
WTRST12R04		R 1/2"	21,5	13,5	42,5	29,6	21	59,7

**WTRST-G**

Swivel male lateral tee BSPP & metric thread nickel-plated

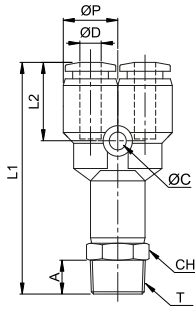


CODE	ØD	T	ØP	A	L1	L2	CH	g
WTRST04M5	4	M5x0,8	11,1	3,8	22,3	18,5	10	10,8
WTRST04M6		M6x1	11,1	4,5	23	18,5	10	11
WTRST04G01		G 1/8"	11,1	5	25	18,5	14	14,5
WTRST04G02		G 1/4"	11,1	5,8	26,3	18,5	17	20,6
WTRST06M5	6	M5x0,8	13	3,8	23,3	19,3	12	14,5
WTRST06M6		M6x1	13	4,5	24	19,3	12	15,1
WTRST06G01		G 1/8"	13	5	25,5	19,3	14	17,7
WTRST06G02		G 1/4"	13	5,8	26,8	19,3	17	21
WTRST06G03	6	G 3/8"	13	6,8	28,3	19,3	20	27,5
WTRST06G04	G 1/2"	13	8	29,5	19,3	24	41,5	
WTRST08G01	8	G 1/8"	15,1	5	28,4	22,7	14	20,9
WTRST08G02		G 1/4"	15,1	5,8	29,7	22,7	17	23,9
WTRST08G03		G 3/8"	15,1	6,8	31,2	22,7	20	30
WTRST08G04		G 1/2"	15,1	8	32,4	22,7	24	40,2
WTRST10G01	10	G 1/8"	18,8	5	34	27	17	38,8
WTRST10G02		G 1/4"	18,8	5,8	34,8	27	17	38,1
WTRST10G03		G 3/8"	18,8	6,8	36,3	27	20	42,2
WTRST10G04		G 1/2"	18,8	8	38,5	27	24	54,9
WTRST12G02	12	G 1/4"	21,5	5,8	36,8	29,6	21	53,2
WTRST12G03		G 3/8"	21,5	6,8	37,8	29,6	21	53,8
WTRST12G04		G 1/2"	21,5	8	39,5	29,6	24	61,1



**WTRWT-R**

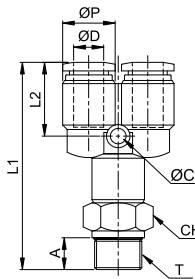
## Swivel male Y BSPT thread nickel-plated



CODE	ØD	T	ØP	ØC	A	L1	L2	CH	g
WTRWT04R01	4	R 1/8"	11,1	3,2	7	41,5	14	10	10,7
WTRWT04R02		R 1/4"	11,1	3,2	9,5	45	14	14	16,6
WTRWT06R01	6	R 1/8"	13	3,2	7	43,3	14,8	12	14,6
WTRWT06R02		R 1/4"	13	3,2	9,5	46,3	14,8	14	19,6
WTRWT06R03		R 3/8"	13	3,2	10,5	47,8	14,8	17	25,8
WTRWT06R04		R 1/2"	13	3,2	13,5	51,3	14,8	21	39
WTRWT08R01	8	R 1/8"	15,1	3,2	7	46,6	18,2	14	21
WTRWT08R02		R 1/4"	15,1	3,2	9,5	49,1	18,2	14	21,1
WTRWT08R03		R 3/8"	15,1	3,2	10,5	50,6	18,2	17	28,7
WTRWT08R04		R 1/2"	15,1	3,2	13,5	54,1	18,2	21	41,6
WTRWT10R01	10	R 1/8"	18,8	4,2	7	54,6	19,5	17	38,3
WTRWT10R02		R 1/4"	18,8	4,2	9,5	57,1	19,5	17	39
WTRWT10R03		R 3/8"	18,8	4,2	10,5	58,1	19,5	17	38,4
WTRWT10R04		R 1/2"	18,8	4,2	13,5	61,6	19,5	21	54,9
WTRWT12R02	12	R 1/4"	21,5	4,3	9,5	62,1	21,6	21	53,6
WTRWT12R03		R 3/8"	21,5	4,3	10,5	63,1	21,6	21	46
WTRWT12R04		R 1/2"	21,5	4,3	13,5	66,1	21,6	21	60,5

**WTRWT-G**

## Swivel male Y BSPP &amp; metric thread nickel-plated

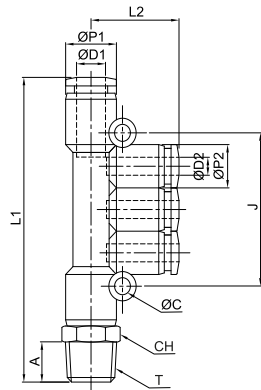


CODE	ØD	T	ØP	ØC	A	L1	L2	CH	g
WTRWT04M5	4	M5x0,8	11,1	3,2	3,8	39,3	14	10	10,8
WTRWT04M6		M6x1	11,1	3,2	4,5	40	14	10	11
WTRWT04G01		G 1/8"	11,1	3,2	5	42	14	14	14,5
WTRWT04G02		G 1/4"	11,1	3,2	5,8	43,3	14	17	20,6
WTRWT06M5	6	M5x0,8	13	3,2	3,8	41,1	14,8	12	14,5
WTRWT06M6		M6x1	13	3,2	4,5	41,8	14,8	12	15,1
WTRWT06G01		G 1/8"	13	3,2	5	43,3	14,8	14	17,7
WTRWT06G02		G 1/4"	13	3,2	5,8	44,6	14,8	17	21
WTRWT06G03	6	G 3/8"	13	3,2	6,8	46,1	14,8	20	27,5
WTRWT06G04		G 1/2"	13	3,2	8	47,3	14,8	24	41,5
WTRWT08G01		G 1/8"	15,1	3,2	5	46,1	18,2	14	20,9
WTRWT08G02		G 1/4"	15,1	3,2	5,8	47,4	18,2	17	23,9
WTRWT08G03	8	G 3/8"	15,1	3,2	6,8	48,9	18,2	20	30
WTRWT08G04		G 1/2"	15,1	3,2	8	50,1	18,2	24	40,2
WTRWT10G01		G 1/8"	18,8	4,2	5	54,1	19,5	17	38,8
WTRWT10G02		G 1/4"	18,8	4,2	5,8	54,9	19,5	17	38,1
WTRWT10G03	10	G 3/8"	18,8	4,2	6,8	56,4	19,5	20	42,2
WTRWT10G04		G 1/2"	18,8	4,2	8	58,6	19,5	24	54,9
WTRWT12G02		G 1/4"	21,5	4,3	5,8	60,4	21,6	21	53,2
WTRWT12G03		G 3/8"	21,5	4,3	6,8	61,4	21,6	21	53,8
WTRWT12G04	12	G 1/2"	21,5	4,3	8	63,1	21,6	24	61,1



**WTRKD-R**

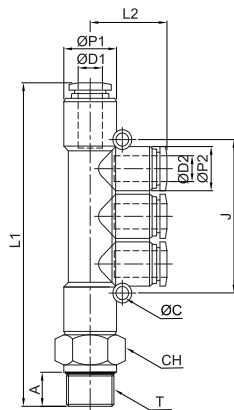
Swivel multi-tee lateral male connector BSPT thread nickel-plated



CODE	ØD1	ØD2	T	ØP1	ØP2	ØC	A	L1	L2	J	CH	g
WTRKD0604R01	6	4	R 1/8"	13	11,1	3,2	7	63,8	19	36	12	17,4
WTRKD0804R02	8	4	R 1/4"	15,1	11,1	3,2	9,5	71,3	20	42	14	23,1
WTRKD0806R02	8	6	R 1/4"	15,1	13	3,2	9,5	71,3	20,3	42	14	24,2
WTRKD1008R03	10	8	R 3/8"	18,8	15,1	4,2	10,5	91	24,3	48	17	40,2

**WTRKD-G**

Swivel multi-tee lateral male connector BSPP thread nickel-plated

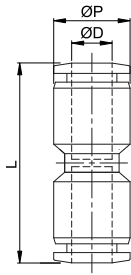


CODE	ØD1	ØD2	T	ØP1	ØP2	ØC	A	L1	L2	J	CH	g
WTRKD0604G01	6	4	G 1/8"	13	11,1	3,2	5	63,8	19	36	14	20,5
WTRKD0804G02	8	4	G 1/4"	15,1	11,1	3,2	5,8	69,6	20	42	17	26
WTRKD0806G02	8	6	G 1/4"	15,1	15,1	3,2	5,8	69,6	20,3	42	17	27
WTRKD1008G03	10	8	G 3/8"	18,8	15,1	4,2	6,8	89,3	24,3	48	20	44



## WTRUC

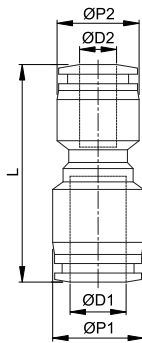
## Union connector



CODE	ØD	ØP	L	g
WTRUC0400	4	11,1	33	4,2
WTRUC0500	5	12,8	35,2	5
WTRUC0600	6	13	35,2	5,2
WTRUC0700	7	14,5	39,1	7
WTRUC0800	8	15,1	39,1	6,8
WTRUC0900	9	18,8	45,2	14
WTRUC1000	10	18,8	48,4	14
WTRUC1100	11	21,2	49,2	17
WTRUC1200	12	21,5	49,2	16,4
WTRUC1400	14	23,2	48,4	18
WTRUC1500	15	25,8	51	25
WTRUC1600	16	26	51	24,5

## WTRG

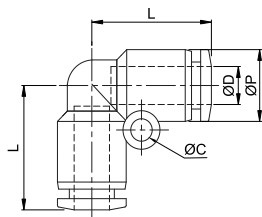
## Reduced union connector



CODE	ØD1	ØD2	ØP1	ØP2	L	g
WTRG0604	6	4	13	11,1	33,6	5,2
WTRG0804	8	4	15,1	11,1	34	5,8
WTRG0805	8	5	15,1	12,8	35,5	6
WTRG0806	8	6	15,1	13	36,1	6,8
WTRG1007	10	7	18,8	14,5	41,8	10
WTRG1008	10	8	18,8	15,1	41,8	12,7
WTRG1207	12	7	21,5	14,5	46,9	13
WTRG1208	12	8	21,5	15,1	46,9	14,1
WTRG1210	12	10	21,5	18,8	47,7	16,6
WTRG1410	14	10	23,2	18,8	48,3	17
WTRG1412	14	12	23,2	21,5	48,3	17
WTRG1610	16	10	26	18,8	48,5	24,3
WTRG1612	16	12	26	21,5	50,1	26
WTRG1614	16	14	26	23,2	50	28

## WTRUL

## Union elbow

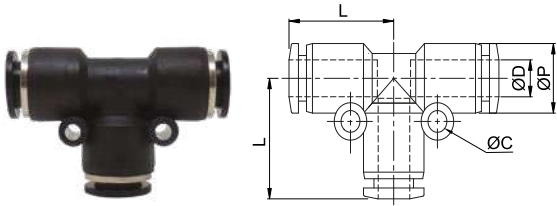


CODE	ØD	ØP	ØC	L	g
WTRUL0400	4	11,1	3,2	17,5	4,2
WTRUL0600	6	13	3,2	19	5,5
WTRUL0800	8	15,1	3,2	22,8	7,3
WTRUL1000	10	18,8	4,2	26,3	14,3
WTRUL1200	12	21,5	4,3	29,6	18,2
WTRUL1400	14	23,2	5,1	31,7	23
WTRUL1600	16	26	5,1	33	27



**WTRUT**

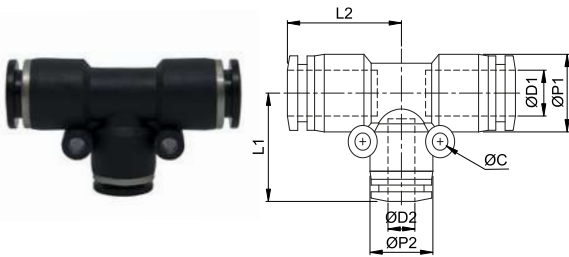
Union tee



CODE	ØD	ØP	ØC	L	g
WTRUT0400	4	11,1	3,2	18,5	6,5
WTRUT0600	6	13	3,2	19,3	8,1
WTRUT0800	8	15,1	3,2	22,7	10,6
WTRUT1000	10	18,8	4,2	27	21,4
WTRUT1200	12	21,5	4,3	29,6	26,7
WTRUT1400	14	23,2	5,1	31,7	31
WTRUT1600	16	26	5,1	33	39,7

**WTRGT**

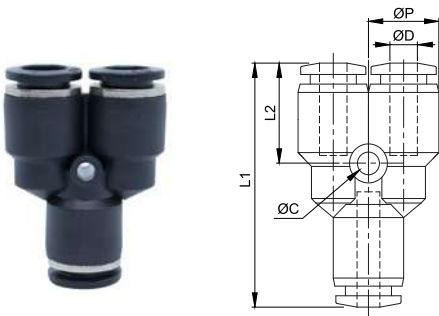
Reduced union tee



CODE	ØD1	ØD2	ØP1	ØP2	ØC	L1	L2	g
WTRGT0604	6	4	13	11,1	3,2	19,5	19,3	8,1
WTRGT0804	8	4	15,1	11,1	3,2	19,8	22,8	9,8
WTRGT0806	8	6	15,1	13	3,2	20,3	22,8	10,6
WTRGT1008	10	8	18,8	15,1	4,2	24,8	27	20,2
WTRGT1210	12	10	21,5	18,8	4,2	28,5	29,6	26,9
WTRGT1612	16	12	26	21,5	5,1	32,1	33	41,9

**WTRY**

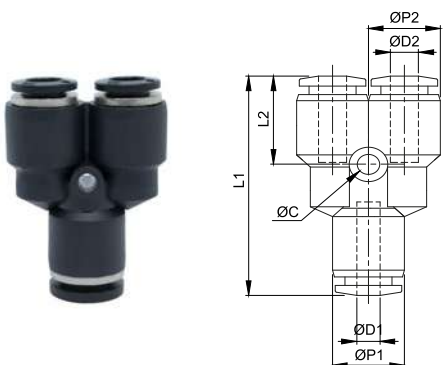
Union Y



CODE	ØD	ØP	ØC	L1	L2	g
WTRY0400	4	11,1	3,2	35,5	14	6,8
WTRY0600	6	13	3,2	37,1	14,8	8,6
WTRY0800	8	15,1	3,2	40,4	18,2	10,7
WTRY1000	10	18,8	4,2	47,1	19,5	21,8
WTRY1200	12	21,5	4,2	53,2	21,6	27,5
WTRY1600	16	26	5,1	61	23,5	33,5

**WTRW**

Reduced union Y



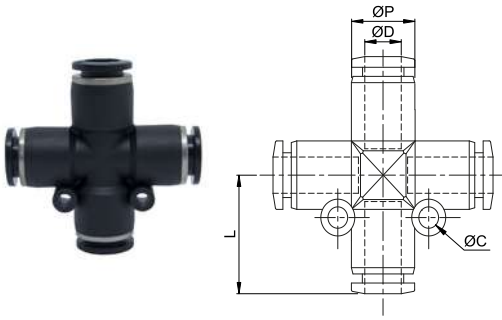
CODE	ØD1	ØD2	ØP1	ØP2	ØC	L1	L2	g
WTRW0604	6	4	13	11,1	3,2	36,8	14,5	9,2
WTRW0806	8	6	15,1	13	3,2	39,9	17,7	11,4
WTRW1008	10	8	18,8	15,1	4,2	47,9	20,3	21,8
WTRW1210	12	10	21,5	18,8	4,2	51,6	20	29,3





**WTRZA**

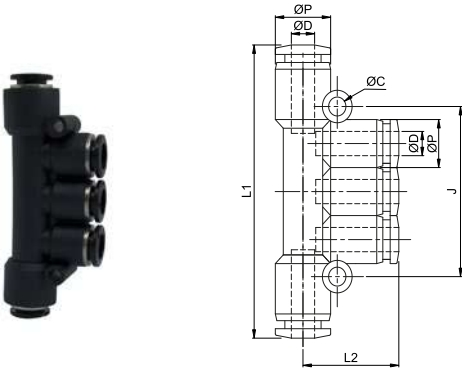
## Union cross



CODE	ØD	ØP	ØC	L	g
WTRZA0400	4	11,1	3,2	17,5	8
WTRZA0600	6	13	3,2	19,3	10,2
WTRZA0800	8	15,1	3,2	22,7	13,6
WTRZA1000	10	18,8	4,2	27	28,2
WTRZA1200	12	21,5	4,3	29,6	34,2

**WTRK**

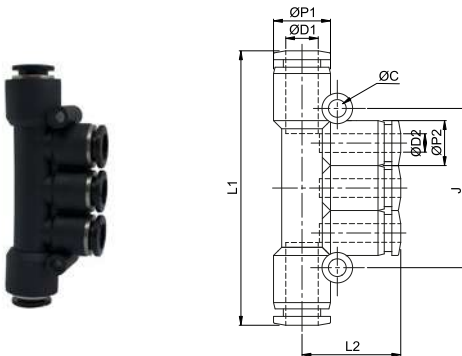
## Union multi-tee



CODE	ØD	ØP	ØC	L1	L2	J	g
WTRK04	4	11,1	3,2	57	19	36	13
WTRK06	6	13	3,2	61,6	20,3	42	17
WTRK08	8	15,1	3,2	81,6	24,3	48	22

**WTRKG**

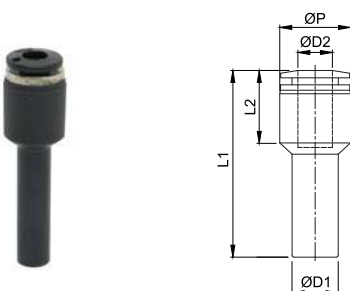
## Union multi-tee



CODE	ØD1	ØD2	ØP1	ØP2	ØC	L1	L2	J	g
WTRKG0604	6	4	13	11,1	3,2	57,6	19	36	13
WTRKG0804	8	4	15,1	11,1	3,2	62,6	20	42	16
WTRKG0806	8	6	15,1	13	3,2	62,6	20,3	42	16,6
WTRKG1006	10	6	18,8	13	4,2	80	23,8	48	28
WTRKG1008	10	8	18,8	15,1	4,2	80	24,3	48	30,8

**WTRGJ**

## Stem reduction

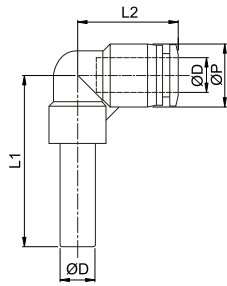


CODE	ØD1	ØD2	ØP	L1	L2	g
WTRGJ0604	6	4	11,1	39,5	14	1,4
WTRGJ0804	8	4	11,1	41,5	14	2,7
WTRGJ0806	8	6	13	41,8	14,3	2
WTRGJ1006	10	6	13	46,8	17,3	3,8
WTRGJ1008	10	8	15,1	47,3	17,8	2,8
WTRGJ1206	12	6	13	51,8	19,3	7,7
WTRGJ1208	12	8	15,1	52,3	19,8	6,4
WTRGJ1210	12	10	18,8	51,5	19	4,2



**WTRLJ**

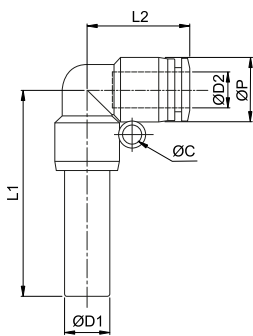
Elbow with stem



CODE	ØD	ØP	L1	L2	g
WTRLJ0400	4	11,1	33,7	17,5	6,5
WTRLJ0600	6	13	34,9	19	8,1
WTRLJ0800	8	15,1	39,1	22,8	10,6
WTRLJ1000	10	18,8	46,1	26,3	21,4
WTRLJ1200	12	21,5	52,2	29,6	26,7

**WTRLGJ**

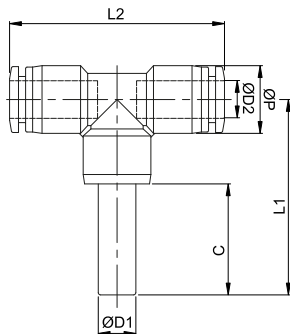
Reduced elbow with stem



CODE	ØD1	ØD2	ØP	ØP2	ØC	L1	L2	g
WTRLGJ0604	6	4	13	11,1	3,2	33,7	17,5	8,7
WTRLGJ0806	8	6	15,1	13	3,2	38,3	19	13,7
WTRLGJ1008	10	8	18,8	15,1	4,2	46,1	22,8	19,4
WTRLGJ1210	12	10	21,5	18,8	4,2	53,5	26,3	34,6
ENLARGED ELBOW WITH STEM								
WTRLGJ0406	4	6	11,1	13	3,2	33,7	19	8,7

**WTRTJ**

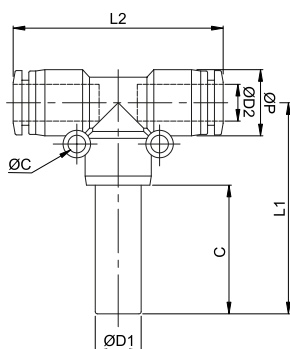
Tee with stem



CODE	ØD1	ØD2	ØP	L1	L2	C	g
WTRTJ04	4	4	11,1	34,7	37	20,2	-
WTRTJ06	6	6	13	35,2	38,6	20,2	-
WTRTJ08	8	8	15,1	41,6	45,7	23,6	-
WTRTJ10	10	10	18,8	51,1	57,6	28,1	-
WTRTJ12	12	12	21,5	55,2	58,8	31,2	-

**WTRTGJ**

Reduced tee with stem

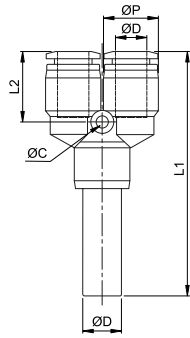


CODE	ØD1	ØD2	ØP	ØC	L1	L2	C	g
WTRTGJ0604	6	4	11,1	3,2	34,7	37	20,2	-
WTRTGJ0806	8	6	13	3,2	38,6	38,6	23,6	-
WTRTGJ1008	10	8	15,1	3,2	46,1	45,7	28,1	-
WTRTGJ1210	12	10	18,8	4,2	54,2	57,6	31,2	-



**WTRYJ**

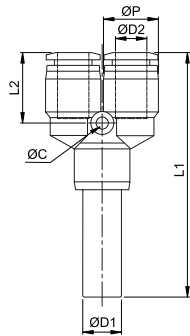
## Union Y with stem



CODE	ØD	ØP	ØC	L1	L2	g
WTRYJ0400	4	11,1	3,2	51,7	14	10,2
WTRYJ0600	6	13	3,2	53	14,8	14,4
WTRYJ0800	8	15,1	3,2	59,3	18,3	20,4
WTRYJ1000	10	18,8	4,2	73	21,3	38,1
WTRYJ1200	12	21,5	4,2	78,6	21,4	49,9

**WTRWJ**

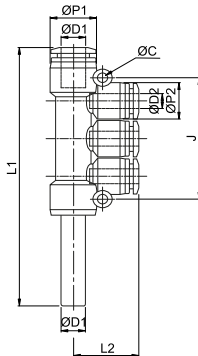
## Reduced union Y with stem



CODE	ØD1	ØD2	ØP	ØC	L1	L2	g
WTRWJ0604	6	4	11,1	3,2	51,7	14	14,5
WTRWJ0806	8	6	13	3,2	53	14,8	20,4
WTRWJ1008	10	8	15,1	4,2	59,3	18,3	35,5
WTRWJ1210	12	10	18,8	4,2	73	21,3	50,5

**WTRKJ**

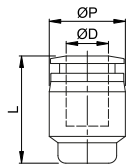
## Multi-tee union with lateral stem



CODE	ØD1	ØD2	ØP1	ØP2	ØC	L1	L2	J	g
WTRKJ0604	6	4	13	11,1	3,2	73,5	19	36	4,2
WTRKJ0804	8	4	15,1	11,1	3,2	81,5	20	42	5,5
WTRKJ0806	8	6	15,1	13	3,2	81,5	20,3	42	7,3
WTRKJ1006	10	6	18,8	13	4,2	104,5	23,8	48	14,3
WTRKJ1008	10	8	18,8	15,1	4,2	105,9	24,3	48	18,2

**WTRPF**

## Female plug

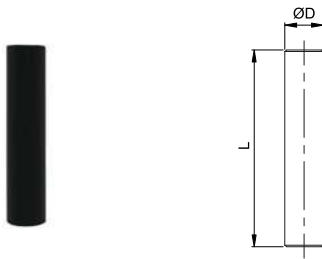


CODE	ØD	ØP	L	g
WTRPF04	4	11,1	17	2,6
WTRPF05	5	12,8	17,3	3,1
WTRPF06	6	13	17,3	3,7
WTRPF07	7	14,5	20,8	3,8
WTRPF08	8	15,1	20,8	4,2
WTRPF10	10	18,8	25,3	5,5
WTRPF12	12	21,5	25,6	9,3
WTRPF14	14	23,2	25,7	12,4
WTRPF15	15	25,8	27	15,3
WTRPF16	16	26	27	17,1



**WTRIJ**

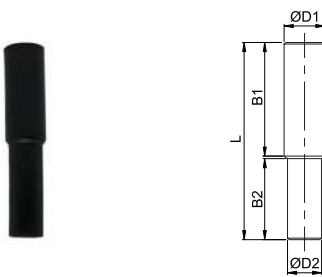
Junction



CODE	ØD	L	g
WTRIJ04	4	35	0,4
WTRIJ06	6	37	0,8
WTRIJ08	8	41	1,2
WTRIJ10	10	51	2,7
WTRIJ12	12	54	3,5
WTRIJ16	16	58	5,3

**WTRIG**

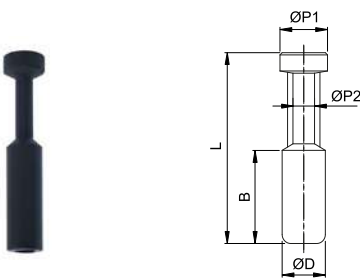
Reduced junction



CODE	ØD1	ØD2	B1	B2	L	g
WTRIG0604	6	4	18	17	36	0,6
WTRIG0806	8	6	20	18	39	1
WTRIG1008	10	8	25	20	46	1,9
WTRIG1210	12	10	27	26	54	3,2
WTRIG1612	16	12	28	28	56	4,8

**WTRP**

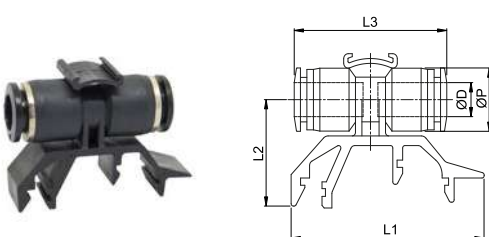
Male plug



CODE	ØD	ØP1	ØP2	B	L	g
WTRP04	4	5	3	15	28	0,4
WTRP06	6	7	3	17	33	0,8
WTRP07	7	8	3,5	18	37	1,1
WTRP08	8	9	4	18	37	1,3
WTRP10	10	11	5	20,5	42	2,2
WTRP12	12	13	6	23	44	3,1
WTRP14	14	15	7	24	45	5
WTRP16	16	15	8	24,5	46	7

**WTRUC-PRD**

Union connector for DIN profile

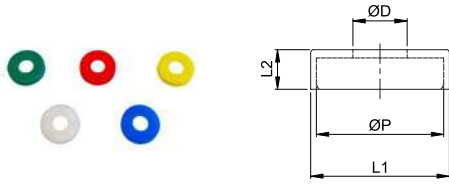


CODE	ØD	ØP	L1	L2	L3	g
WTRUC-PRD04	4	11,1	45	22	34,6	8
WTRUC-PRD06	6	13	45	22	35,2	8
WTRUC-PRD08	8	15,1	45	22,7	39,1	10
WTRUC-PRD10	10	18,8	45	24,7	45,2	17



## WTRCV

Applicable sleeve



CODE	ØD	ØP	L1	L2	g
WTRCV04	4,3	10,1	11	2,4	0,1
WTRCV06	6,3	12,1	13	2,6	0,14

ØD	BLUE	RED	WHITE	YELLOW	GREEN
4	WTRCV04BL	WTRCV04RO	WTRCV04BO	WTRCV04GL	WTRCV04VD
6	WTRCV06BL	WTRCV06RO	WTRCV06BO	WTRCV06GL	WTRCV06VD





# PUSH-IN FITTINGS COMPACT CDC PNEUMATICS

PLUS

**REDUCED DIMENSIONS** to be easily used in confined spaces

---

**ALSO AVAILABLE FOR TUBING**  
Ø3mm

---

**OVAL LOCKING COLLET** to improve disconnection

---

**STATIC GRIPPING SYSTEM** in order to stop all movement of the tube when inserted, granting a leak-proof connection

---

**MADE WITH TOP QUALITY  
TECNOPOLYMERS** to guarantee long-lasting components





p. 35 / **PC-C-R**



p. 35 / **PC-C-G**



p. 35 / **POC-C-R**



p. 36 / **POC-C-M**



p. 36 / **PCF-C-M**



p. 36 / **PMM-C**



p. 37 / **PL-C-R**



p. 37 / **PL-C-G**



p. 37 / **PLL-C-R**



p. 38 / **PLL-C-M**



p. 38 / **PT-C-R**



p. 38 / **PT-C-M**



p. 39 / **PST-C-R**



p. 39 / **PST-C-M**



p. 39 / **PUC-C**



p. 40 / **PG-C**



p. 40 / **PUL-C**



p. 40 / **PUT-C**



p. 41 / **PY-C**



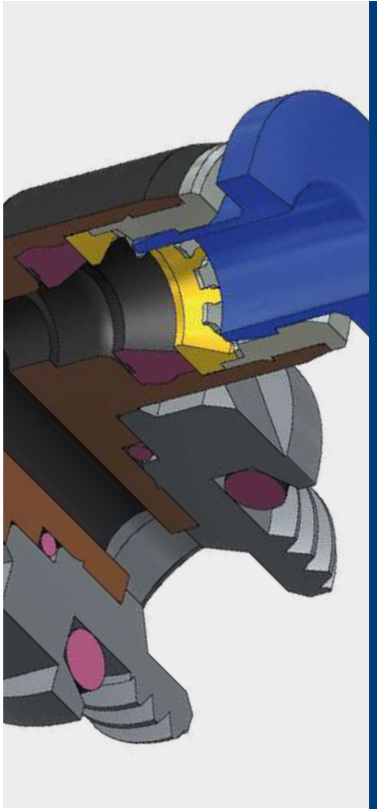
p. 41 / **PW-C**



p. 41 / **PGJ-C**







0°C ÷ 60°C



**Working pressure:**  
10 Bar  
**Negative pressure:**  
- 0,95 Bar ( - 95 kPa)



Compressed air & Vacuum  
(do not use in water application)



- Taper gas BSPT ISO 7  
R1/8"  
- Parallel gas BSPP ISO 228  
G1/8"  
- Metric ISO 262  
M3, M5 and M6



Polyamide PA,  
Polyurethane PU,  
Polypropylene PE



Body: PBT and nickel-plated brass  
Collar: Nickel-plated brass  
Collet: POM  
Lock claw: Stainless steel AISI 301  
Back ring: POM  
Seal: NBR silicone free  
O-ring: NBR silicone free

**SILICONE FREE**

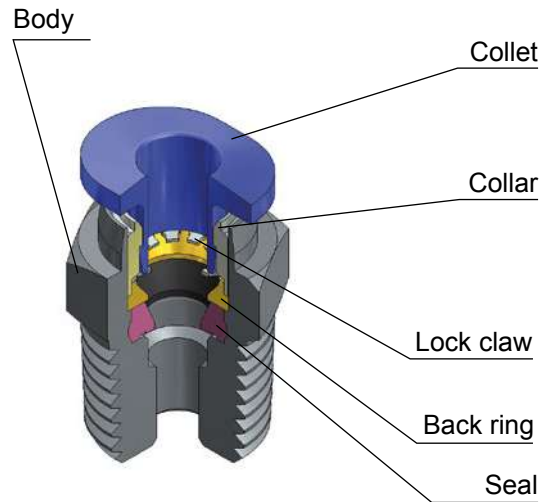
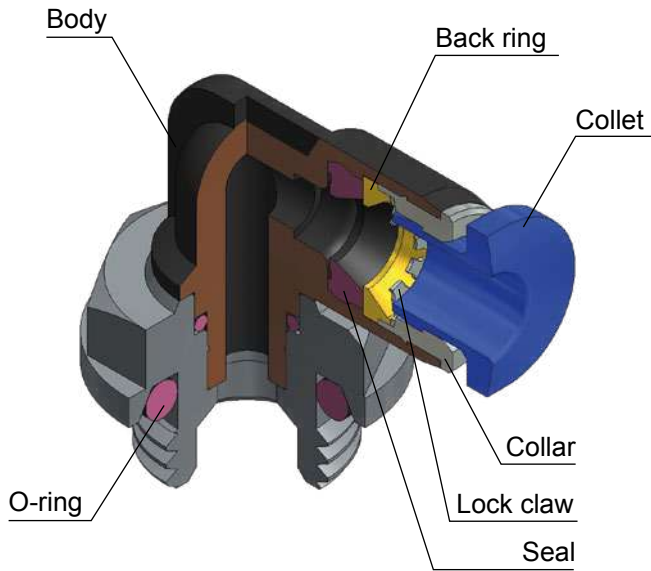


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"
Nm	7

**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M3x0,5	M5x0,8	M6x1,0	1/8"
Nm	0,7	1,5	2,3	10

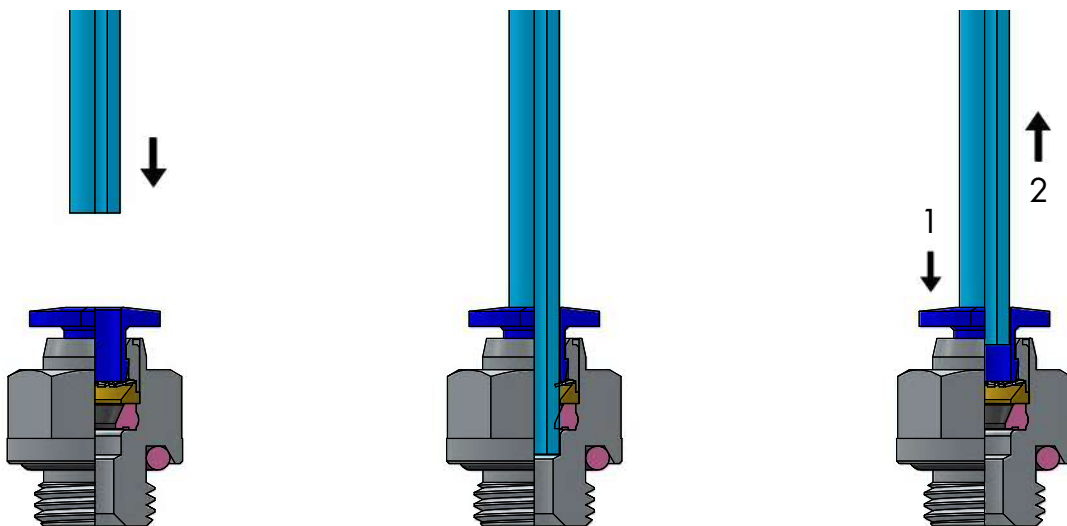


**INSERTION OF THE TUBE INTO THE FITTING**

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

**DISCONNECTION OF THE TUBE FROM THE FITTING**

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



**TOLERANCES - METRIC TUBE**

Ø TUBE (mm)	3	4	6
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1

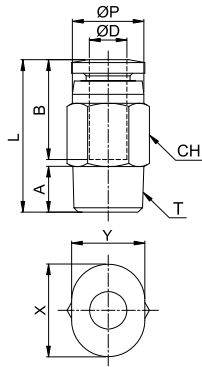
**INSERTION DEPTH - METRIC TUBE**

Ø TUBE (mm)	3	4	6
TUBE INSERTION LENGHT (mm)	11,3	11,8	12,9



**PC-C-R**

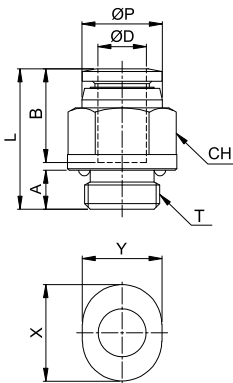
## Compact male connector BSPT thread nickel-plated



CODE	ØD	T	ØP	A	B	L	CH	X	Y	DN	g
PC-C04R01	4	R1/8"	8,0	8,0	11,7	16,7	10	10,4	8,2	3,0	6,0
PC-C06R01	6	R1/8"	10,0	8,0	12,7	18,9	10	12,4	10,2	5,0	7,0

**PC-C-G**

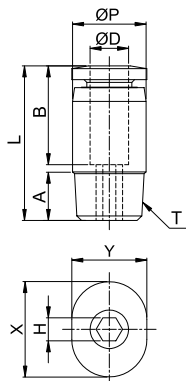
## Compact male connector BSPP &amp; metric thread nickel-plated



CODE	ØD	T	ØP	A	B	L	CH	X	Y	DN	g
PC-C03M3	3	M3x0,5P	7,0	3,0	11,2	16,1	7	9,2	7,2	1,5	3,0
PC-C03M5		M5x0,8P	7,2	3,6	11,2	16,3	8	9,2	7,2	2,0	4,0
PC-C03M6		M6x1,0P	7,2	4,1	11,2	16,3	8	9,2	7,2	2,0	4,0
PC-C04M3	4	M3x0,5P	8,0	3,0	11,7	16,8	8	10,4	8,2	1,5	4,0
PC-C04M5		M5x0,8P	8,0	3,6	11,7	17,1	8	10,4	8,2	2,5	4,0
PC-C04M6		M6x1,0P	8,0	4,1	11,7	17,7	8	10,4	8,2	3,0	4,0
PC-C04G01	6	G 1/8"	8,3	5,0	11,7	17,4	12	10,4	8,2	3,0	8,0
PC-C06M5		M5x0,8P	10,0	3,6	12,7	18,6	10	12,4	10,2	2,5	5,0
PC-C06M6		M6x1,0P	10,0	4,1	12,7	18,9	10	12,4	10,2	3,0	6,0
PC-C06G01		G 1/8"	10,3	5,0	12,7	17,9	12	12,4	10,2	5,0	9,0

**POC-C-R**

## Compact male connector round body with internal hexagon BSPT thread nickel-plated

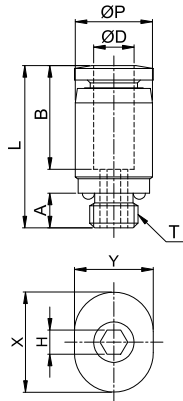


CODE	ØD	T	ØP	A	B	L	H	X	Y	DN	g
POC-C04R01	4	R 1/8"	10	8,0	11,7	15,7	3	10,4	8,2	3,0	5,0
POC-C06R01	6	R 1/8"	10	8,0	12,7	18,9	4	12,4	10,2	4,0	6,0



**POC-C-M**

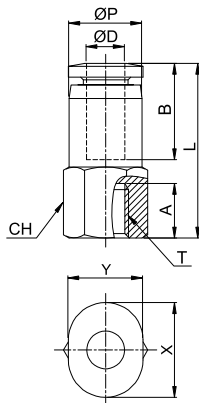
Compact male connector round body with internal hexagon metric thread nickel-plated



CODE	ØD	T	ØP	A	B	L	H	X	Y	DN	g
POC-C03M3	3	M3x0,5P	7	3,0	11,2	16,1	1,5	9,2	7,2	1,5	2,0
POC-C03M5		M5x0,8P	7	3,6	11,2	16,3	2,0	9,2	7,2	2,0	2,0
POC-C03M6		M6x1,0P	8	4,1	11,2	16,7	2,0	9,2	7,2	2,0	4,0
POC-C04M3	4	M3x0,5P	8	3,0	11,7	16,8	1,5	10,4	8,2	1,5	3,0
POC-C04M5		M5x0,8P	8	3,6	11,7	16,9	2,5	10,4	8,2	2,5	4,0
POC-C04M6		M6x1,0P	8	4,1	11,7	17,2	3,0	10,4	8,2	3,0	4,0
POC-C06M5	6	M5x0,8P	10	3,6	12,7	18,6	2,5	12,4	10,2	2,5	5,0
POC-C06M6		M6x1,0P	10	4,1	12,7	18,6	3,0	12,4	10,2	3,0	5,0

**PCF-C-M**

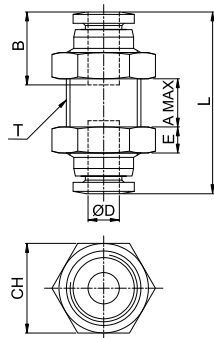
Compact female connector metric thread nickel-plated



CODE	ØD	T	ØP	A	B	L	CH	X	Y	DN	g
PCF-C03M3	3	M3x0,5P	7,5	4,0	11,2	16,2	8	9,2	7,2	2,5	2,0
PCF-C03M5		M5x0,8P	7,5	6,0	11,2	18,7	8	9,2	7,2	2,5	2,0
PCF-C03M6		M6x1,0P	7,5	6,0	11,2	18,7	8	9,2	7,2	2,5	2,4
PCF-C04M3	4	M3x0,5P	8,0	4,0	11,7	17,7	8	10,4	8,2	2,5	3,0
PCF-C04M5		M5x0,8P	8,0	6,0	11,7	19,2	8	10,4	8,2	3,0	4,0
PCF-C04M6		M6x1,0P	8,0	6,0	11,7	19,2	8	10,4	8,2	3,0	4,0
PCF-C06M5	6	M5x0,8P	10,0	6,0	12,7	19,7	10	12,4	10,2	4,0	5,0
PCF-C06M6		M6x1,0P	10,0	6,0	12,7	19,7	10	12,4	10,2	4,0	5,0

**PMM-C**

Compact bulkhead connector nickel-plated

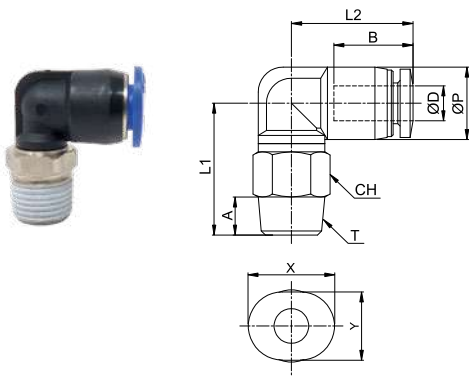


CODE	ØD	T	B	A MAX	L	E	CH	DN	g
PMM-C03	3	M8x0,75P	11,2	7,1	23,4	3,0	10	2,0	6,0
PMM-C04	4	M10x1,0P	11,7	6,5	24,3	3,5	12	3,0	10,0
PMM-C06	6	M12x1,0P	12,7	8,0	26,9	4,0	14	5,0	14,0



**PL-C-R**

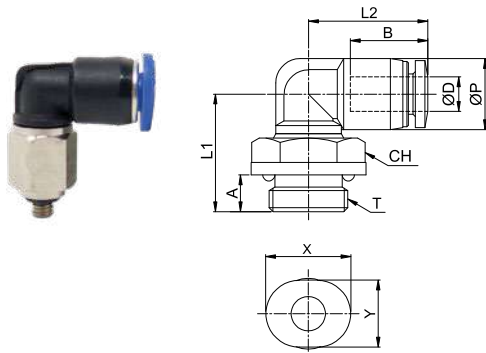
Compact swivel male elbow BSPT thread nickel-plated



CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PL-C04R01	4	R 1/8"	8,7	8,0	11,8	16,4	14,6	10	10,4	8,2	3,0	7,0
PL-C06R01	6	R 1/8"	10,8	8,0	12,8	17,4	15,5	10	12,4	10,2	3,0	7,0

**PL-C-G**

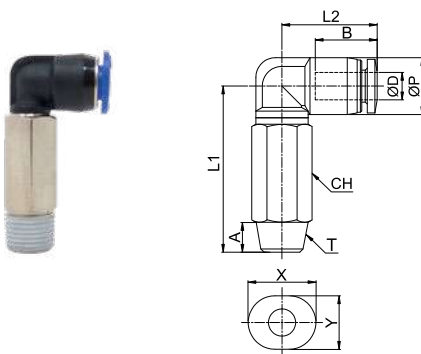
Compact swivel male elbow BSPP & metric thread nickel-plated



CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PL-C03M3	3	M3x0,5P	7,6	3,0	11,3	14,7	13,5	8	9,2	7,2	1,5	4,0
PL-C03M5		M5x0,8P	7,6	3,6	11,3	15,3	13,5	8	9,2	7,2	2,5	4,0
PL-C03M6		M6x1,0P	7,6	4,1	11,3	15,8	13,5	8	9,2	7,2	2,5	4,0
PL-C04M3	4	M3x0,5P	8,7	3,0	11,8	15,3	14,6	8	10,4	8,2	1,5	4,0
PL-C04M5		M5x0,8P	8,7	3,6	11,8	15,9	14,6	8	10,4	8,2	2,5	4,0
PL-C04M6		M6x1,0P	8,7	4,1	11,8	16,4	14,6	8	10,4	8,2	3,0	4,0
PL-C04G01		G 1/8"	8,7	4,5	11,8	14,4	14,6	14	10,4	8,2	3,0	7,0
PL-C06M5	6	M5x0,8P	10,8	3,6	12,9	16,9	15,5	8	12,4	10,2	2,5	4,0
PL-C06M6		M6x1,0P	10,8	4,1	12,9	17,4	15,5	8	12,4	10,2	3,0	5,0
PL-C06G01		G 1/8"	10,8	4,5	12,9	15,4	15,5	14	12,4	10,2	3,0	6,0

**PLL-C-R**

Compact long swivel male elbow BSPT thread nickel-plated

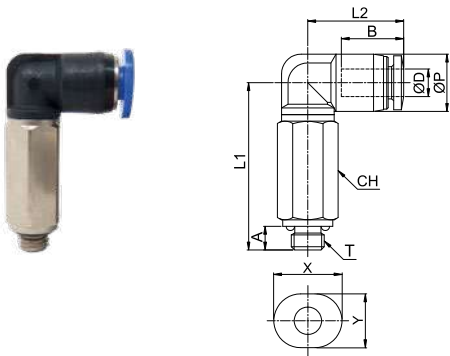


CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PLL-C04R01	4	R 1/8"	8,7	8,0	11,8	29,4	14,6	10	10,4	8,2	3,0	13,0
PLL-C06R01	6	R 1/8"	10,8	8,0	12,8	32,4	15,5	10	12,4	10,2	3,0	14,0



**PLL-C-M**

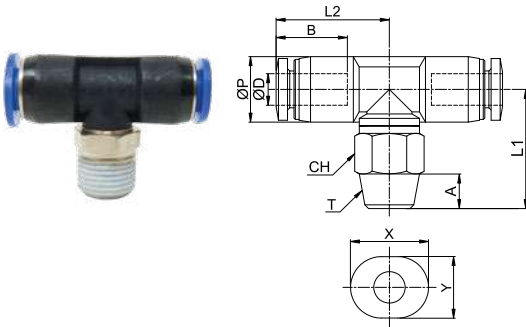
Compact long swivel male elbow metric thread nickel-plated



CODE	ØD	T	ØP	A	B	L1	L2	H	X	Y	DN	g
PLL-C03M3	3	M3x0,5P	7,5	3,0	11,3	21,8	13,5	8	9,2	7,2	1,5	6,0
PLL-C03M5		M5x0,8P	7,5	3,6	11,3	23,9	13,5	8	9,2	7,2	2,5	7,0
PLL-C03M6		M6x1,0P	7,5	4,1	11,3	24,4	13,5	8	9,2	7,2	2,5	7,0
PLL-C04M3	4	M3x0,5P	8,7	3,0	11,8	24,9	14,6	8	10,4	8,2	1,5	8,0
PLL-C04M5		M5x0,8P	8,7	3,6	11,8	25,5	14,6	8	10,4	8,2	2,5	8,0
PLL-C04M6		M6x1,0P	8,7	4,1	11,8	26,0	14,6	8	10,4	8,2	2,5	8,0
PLL-C06M5	6	M5x0,8P	10,8	3,6	12,8	28,4	15,5	8	12,4	10,2	2,5	9,0
PLL-C06M6		M6x1,0P	10,8	4,1	12,8	28,9	15,5	8	12,4	10,2	2,5	9,0

**PT-C-R**

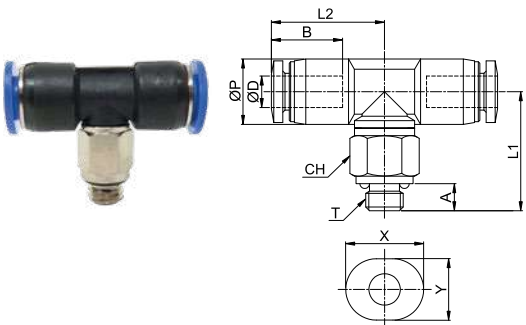
Compact swivel male central tee BSPT thread nickel-plated



CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PT-C04R01	4	R 1/8"	8,7	8,0	11,8	16,4	15,1	10	10,4	8,2	3,0	7,0
PT-C06R01	6	R 1/8"	10,8	8,0	12,8	17,4	16,0	10	12,4	10,2	3,0	9,0

**PT-C-M**

Compact swivel male central tee metric thread nickel-plated

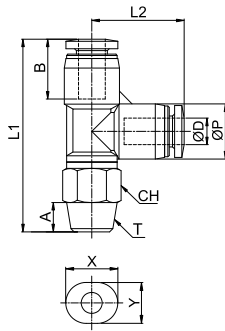


CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PT-C03M3	3	M3x0,5P	7,6	3,0	11,3	14,7	14,5	8	9,2	7,2	1,5	4,0
PT-C03M5		M5x0,8P	7,6	3,6	11,3	15,3	14,5	8	9,2	7,2	2,5	5,0
PT-C03M6		M6x1,0P	7,6	4,1	11,3	15,8	14,5	8	9,2	7,2	2,5	5,0
PT-C04M3	4	M3x0,5P	8,7	3,0	11,8	15,3	15,1	8	10,4	8,2	1,5	5,0
PT-C04M5		M5x0,8P	8,7	3,6	11,8	15,9	15,1	8	10,4	8,2	2,5	5,0
PT-C04M6		M6x1,0P	8,7	4,1	11,8	16,4	15,1	8	10,4	8,2	3,0	6,0
PT-C06M5	6	M5x0,8P	10,8	3,6	12,8	16,9	16,0	8	12,4	10,2	2,5	7,0
PT-C06M6		M6x1,0P	10,8	4,1	12,8	17,4	16,0	8	12,4	10,2	3,0	7,0



**PST-C-R**

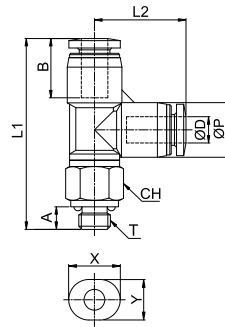
Compact swivel lateral male tee BSPT thread nickel-plated



CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PST-C04R01	4	R 1/8"	8,7	8,0	11,8	30,9	14,6	10	10,4	8,2	3,0	9,0
PST-C06R01	6	R 1/8"	10,8	8,0	12,8	33,9	16,5	10	12,4	10,2	3,0	10,0

**PST-C-M**

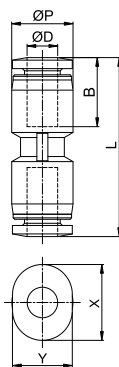
Compact swivel lateral male tee metric thread nickel-plated



CODE	ØD	T	ØP	A	B	L1	L2	CH	X	Y	DN	g
PST-C03M3	3	M3x0,5P	7,6	3,0	11,3	28,3	13,6	8	9,2	7,2	1,5	4,0
PST-C03M5		M5x0,8P	7,6	3,6	11,3	28,9	13,6	8	9,2	7,2	2,5	5,0
PST-C03M6		M6x1,0P	7,6	4,1	11,3	29,4	13,6	8	9,2	7,2	2,5	5,0
PST-C04M3	4	M3x0,5P	8,7	3,0	11,8	29,8	14,6	8	10,4	8,2	1,5	5,0
PST-C04M5		M5x0,8P	8,7	3,6	11,8	30,4	14,6	8	10,4	8,2	2,5	6,0
PST-C04M6		M6x1,0P	8,7	4,1	11,8	30,9	14,6	8	10,4	8,2	3,0	6,0
PST-C06M5	6	M5x0,8P	10,8	3,6	12,8	33,4	16,5	8	12,4	10,2	2,5	7,0
PST-C06M6		M6x1,0P	10,8	4,1	12,8	33,9	16,5	8	12,4	10,2	3,0	7,0

**PUC-C**

Compact union connector

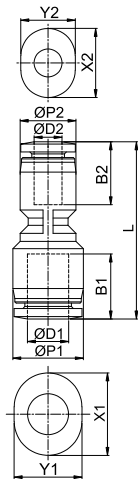


CODE	ØD	ØP	B	L	X	Y	DN	g
PUC-C03	3	7,5	11,4	23,8	9,2	7,2	2,4	3,0
PUC-C04	4	8,4	11,8	24,5	10,4	8,2	3,0	3,0
PUC-C06	6	10,6	12,9	26,8	12,4	10,2	4,0	3,0



**PG-C**

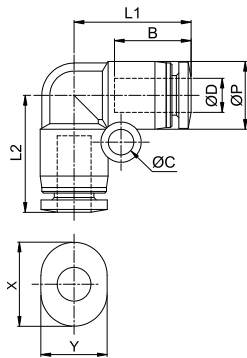
Compact reduced union connector



CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L	X1	Y1	X2	Y2	DN	g
PG-C0403	4	3	8,4	7,5	11,8	11,4	24,2	10,4	8,2	9,2	7,2	2,4	3,0
PG-C0603	6	3	10,6	7,5	12,9	11,4	26,3	12,4	10,2	9,2	7,2	2,5	3,0
PG-C0604	6	4	10,6	8,4	12,9	11,8	26,6	12,4	10,2	10,4	8,2	3,0	3,0

**PUL-C**

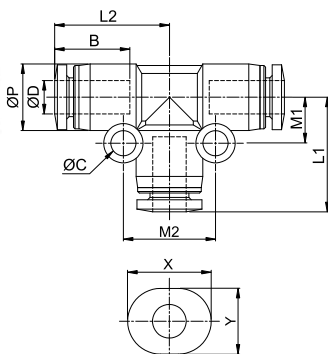
Compact union elbow



CODE	ØD	ØP	ØC	B	L1	L2	X	Y	DN	g
PUL-C03	3	7,5	3,2	11,4	17,3	17,3	9,2	7,2	2,4	2,0
PUL-C04	4	8,4	3,2	11,8	18,7	18,7	10,4	8,2	3,0	3,0
PUL-C06	6	10,6	3,2	12,9	21,9	21,9	12,4	10,2	4,0	3,0

**PUT-C**

Compact union tee



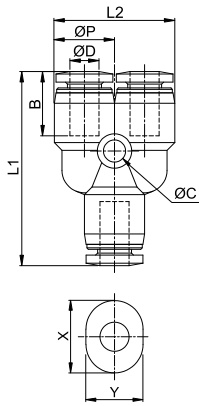
CODE	ØD	ØP	ØC	B	L1	L2	M1	M2	X	Y	DN	g
PUT-C03	3	7,5	3,2	11,4	17,3	27,2	5,3	10,7	9,2	7,2	2,4	3,0
PUT-C04	4	8,4	3,2	11,8	18,7	28,9	5,8	11,6	10,4	8,2	3,0	3,0
PUT-C06	6	10,6	3,2	12,9	21,9	33,2	6,9	13,8	12,4	10,2	4,0	6,0





**PY-C**

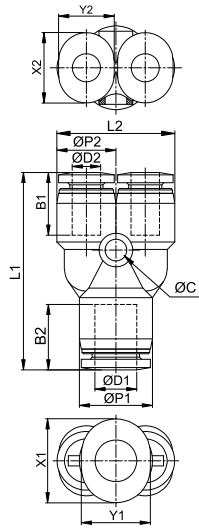
Compact union Y



CODE	ØD	ØP	ØC	B	L1	L2	X	Y	DN	g
PY-C03	3	7,6	3,2	11,4	27,0	15,2	9,2	7,2	2,4	3,0
PY-C04	4	8,7	3,2	11,8	28,0	17,4	10,4	8,2	3,0	5,0
PY-C06	6	10,8	3,2	12,9	30,8	21,6	12,4	10,2	4,0	6,0

**PW-C**

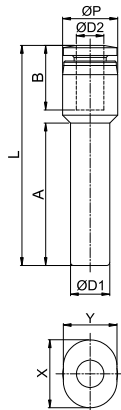
Compact reduced union Y



CODE	ØD1	ØD2	ØP1	ØP2	ØC	B1	B2	L1	L2	X1	X2	Y1	Y2	DN	g
PW-C0403	4	3	8,7	7,6	3,2	11,8	11,4	27,6	15,2	10,4	8,2	9,2	7,2	2,0	3,0
PW-C0603	6	3	10,8	7,6	3,2	12,9	11,4	28,8	15,2	12,4	10,2	9,2	7,2	2,4	4,0
PW-C0604	6	4	10,8	8,7	3,2	12,9	11,8	29,1	17,4	12,4	10,2	10,4	8,2	3,0	5,0

**PGJ-C**

Compact reduced



CODE	ØD1	ØD2	ØP	A	B	L	X	Y	DN	g
PGJ-C0403	4	3	7,6	18,0	11,4	30,5	9,2	7,2	2,4	1,0
PGJ-C0603	6	3	7,6	21,6	11,4	32,1	9,2	7,2	2,4	2,0
PGJ-C0604	6	4	8,4	21,8	11,8	33,7	10,4	8,2	3,0	3,0





# PUSH-IN FITTINGS M SERIES

PLUS

**COMPACT AND EXTREMELY  
LIGHTWEIGHT**

**EXCELLENT RESISTANCE TO VACUUM**

**CAN BE USED WITH WATER FOR  
INDUSTRIAL APPLICATIONS**

Available in parallel **BSPP THREAD** &  
metric with sealing O-ring and taper **BSPT  
THREAD** with teflon pre-coated thread

**AVAILABLE SMP FITTING SERIES IN  
STAINLESS STEEL AISI 303**

**WIDE RANGE OF DIAMETERS  
AVAILABLE** with optimization of flow rates

Working pressure up to **20 BAR** and  
temperature range **-20°C ÷ 80°C**



					
p. 47 / <b>MPC-R</b>	p. 47 / <b>MPC-G</b>	p. 48 / <b>MPL-R</b>	p. 48 / <b>MPL-G</b>	p. 49 / <b>MPT-R</b>	p. 49 / <b>MPT-G</b>
					
p. 50 / <b>MPUC</b>	p. 50 / <b>MPG</b>	p. 50 / <b>MPUL</b>	p. 51 / <b>MPUT</b>	p. 51 / <b>MPY</b>	p. 51 / <b>SCPW</b>

**SMP SERIES / STAINLESS STEEL AISI 303 & PA66**

	
p. 52 / <b>SMPC-R</b>	p. 52 / <b>SMPL-R</b>

**QUICK EXHAUST VALVES / PA66**

	
p. 53 / <b>MEVU</b>	p. 54 / <b>MEVS</b>

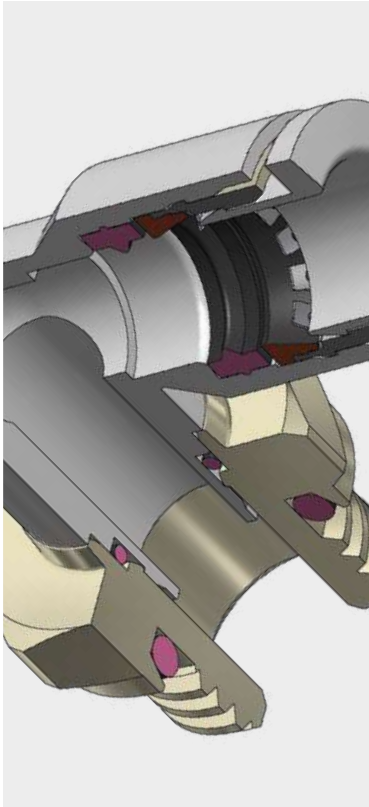
**BANJO FLOW REGULATORS / NICKEL-PLATED BRASS & PA66**

	
p. 57 / <b>MSC-R</b>	p. 57 / <b>MSC-G</b>

**FLAT FLOW REGULATORS / NICKEL-PLATED BRASS & PA66**


p. 58 / <b>MSF</b>





-20 °C ÷ 80 °C dry air  
1 °C ÷ 80 °C air, vacuum, and water for industrial applications



**Working pressure:**  
20 Bar  
**Negative pressure:**  
- 0,95 Bar (- 99 kPa)  
Pressure peaks do not exceed the max working pressure



Compressed air, vacuum and industrial water



- Taper gas BSPT ISO 7 from R1/8" to R1/2" with teflon  
- Parallel gas BSPP ISO 228 from G1/8" to G1/2" with OR  
- Metric ISO 262 M5 and M6 with OR



Polyamide PA, polyurethane PU, polyethylene PE, FEP, PTFE

**Body:** Nickel-plated brass and PA66  
Stainless steel AISI 303 (SMP Series)

**O-Ring:** NBR

**Back ring:** PA66  
POM (MPC - MPC-G)  
POM (SMP Series)

**Seal:** NBR

**Lock claw:** Stainless steel AISI 301

**Collar:** PA66

**Collet:** PA66

**SILICONE FREE**

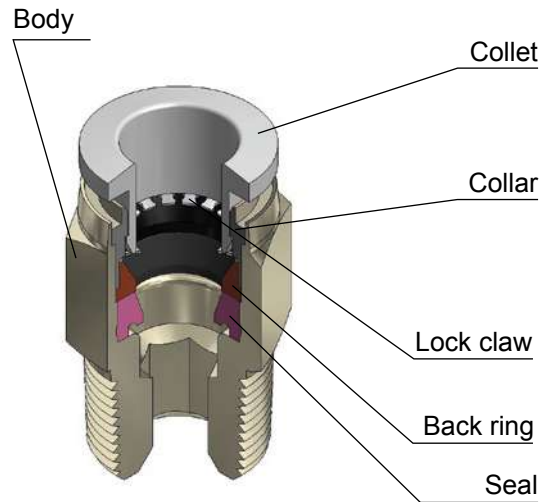
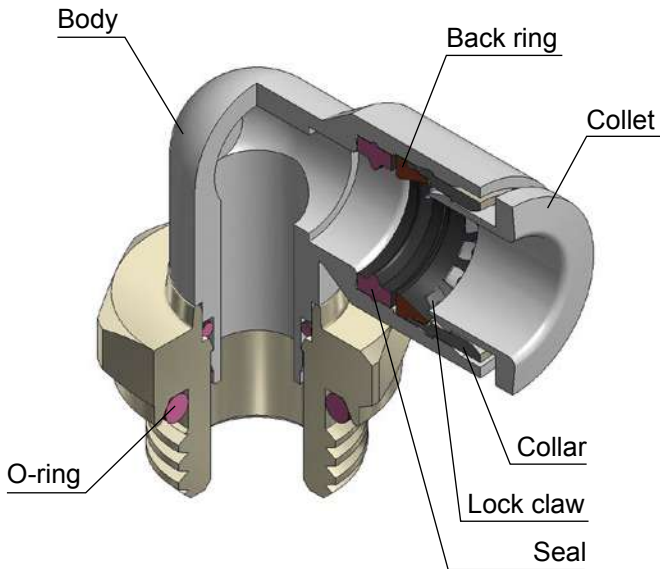


Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M6x1,0	1/8"	1/4"	3/8"	1/2"
Nm	1,5	2,3	10	15	25	40

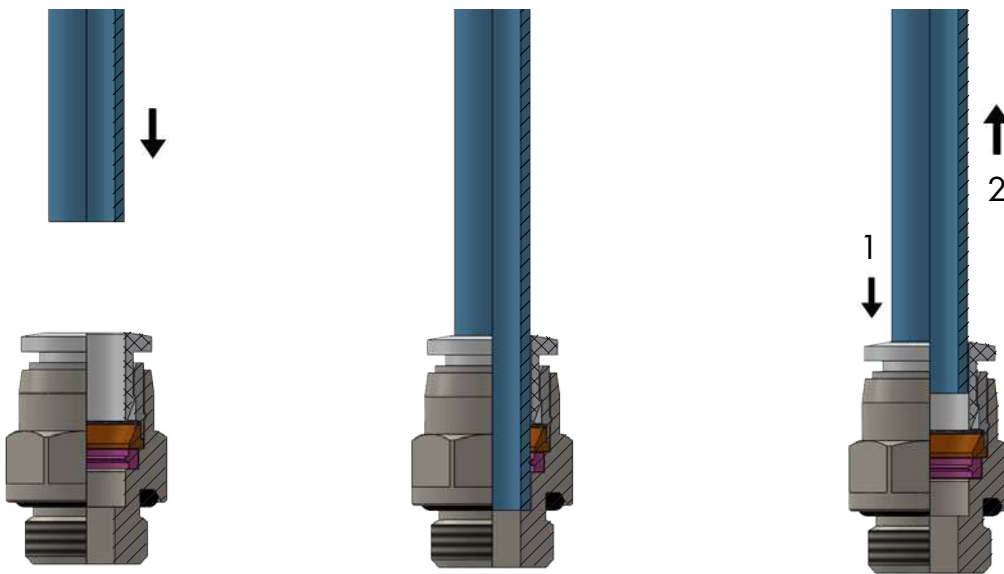


**INSERTION OF THE TUBE INTO THE FITTING**

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

**DISCONNECTION OF THE TUBE FROM THE FITTING**

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



**TOLERANCES - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,1	± 0,15

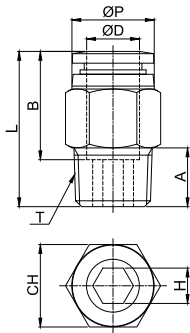
**INSERTION DEPTH - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TUBE INSERTION LENGTH (mm)	12	14,5	16,5	19	21



## MPC-R

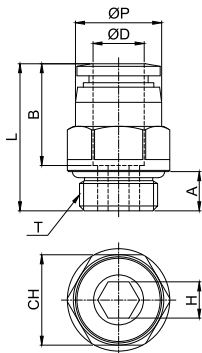
## Male connector BSPT thread



CODE	ØD	T	ØP	A	B	L	CH	H	DN	g
MPC04R01W	4	R 1/8"	10	8	14,8	22,0	10	3	3	9,0
MPC04R02W		R 1/4"	10	10	14,8	21,0	14	3	3	16,0
MPC04R03W		R 3/8"	10	11	14,8	22,0	17	3	3	28,0
MPC06R01W	6	R 1/8"	12	8	16,4	23,4	12	4	4	10,0
MPC06R02W		R 1/4"	12	10	16,4	21,9	14	5	5	14,0
MPC06R03W		R 3/8"	12	11	16,4	22,9	17	5	5	25,0
MPC06R04W	6	R 1/2"	12	14	16,4	29,2	19	5	5	53,0
MPC08R01W		R 1/8"	14	8	18,4	28,4	14	5	5	15,0
MPC08R02W		R 1/4"	14	10	18,4	26,4	14	6	6	16,0
MPC08R03W	8	R 3/8"	14	11	18,4	23,9	17	6	6	24,0
MPC08R04W		R 1/2"	14	14	18,4	29,4	19	6	6	49,0
MPC10R01W	10	R 1/8"	16,1	8	19,7	29,9	17	5	5	21,0
MPC10R02W		R 1/4"	16,1	10	19,7	31,4	17	6	6	24,0
MPC10R03W		R 3/8"	16,1	11	19,7	27,5	17	8	8	24,0
MPC10R04W	10	R 1/2"	16,1	14	19,7	29,9	19	8	8	45,0
MPC12R01W		R 1/8"	19	8	21,9	33,2	19	5	5	30,0
MPC12R02W	12	R 1/4"	19	10	21,9	33,7	19	6	6	30,0
MPC12R03W		R 3/8"	19	11	21,9	30,7	19	8	8	29,0
MPC12R04W		R 1/2"	19	14	21,9	30,2	19	8	8	38,0

## MPC-G

## Male connector BSPP &amp; metric thread

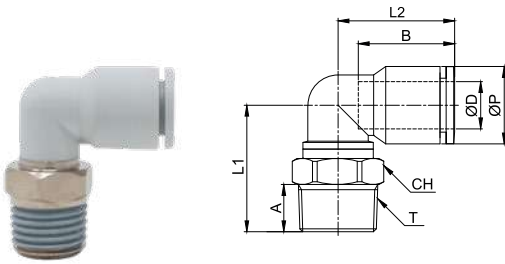


CODE	ØD	T	ØP	A	B	L	CH	H	DN	g
MPC04M5W	4	M5x0,8p	10,0	4,0	14,8	20,9	10	-	2,5	7,0
MPC04M6W		M6x1,0p	10,0	4,1	14,8	20,9	10	-	3	8,0
MPC04G01W		G 1/8"	10,3	5,0	14,8	20,0	13	3	3	11,0
MPC04G02W		G 1/4"	10,3	6,5	14,8	21,5	15	3	3	19,0
MPC04G03W		G 3/8"	10,3	6,5	14,8	21,5	17	3	3	28,0
MPC06M5W	6	M5x0,8p	12,0	4,0	16,4	23,1	12	-	2,5	10,0
MPC06M6W		M6x1,0p	12,0	4,1	16,4	23,0	12	-	3	10,0
MPC06G01W		G 1/8"	12,3	5,0	16,4	21,2	13	4	4	10,0
MPC06G02W	6	G 1/4"	12,3	6,5	16,4	23,2	15	5	5	17,0
MPC06G03W		G 3/8"	12,3	6,5	16,4	22,2	17	5	5	23,0
MPC08G01W	8	G 1/8"	14,3	5,0	18,4	26,9	15	5	5	17,0
MPC08G02W		G 1/4"	14,3	6,5	18,4	24,4	15	6	6	16,0
MPC08G03W		G 3/8"	14,3	6,5	18,4	23,4	17	6	6	24,0
MPC08G04W		G 1/2"	14,3	8,0	18,4	23,9	21	6	6	38,0
MPC10G01W	10	G 1/8"	16,5	5,0	19,7	28,9	17	5	5	22,0
MPC10G02W		G 1/4"	16,5	6,5	19,7	28,9	17	6	6	23,0
MPC10G03W		G 3/8"	16,5	6,5	19,7	25,4	17	8	8	20,0
MPC10G04W		G 1/2"	16,5	8,0	19,7	25,9	21	8	8	39,0
MPC12G02W	12	G 1/4"	19,0	6,5	21,9	31,7	19	6	6	29,0
MPC12G03W		G 3/8"	19,0	6,5	21,9	27,2	19	8	8	23,0
MPC12G04W		G 1/2"	19,0	8,0	21,9	28,2	21	8	8	36,0



**MPL-R**

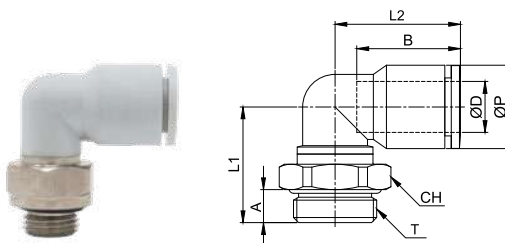
Swivel male elbow BSPT thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	DN	g
MPL04R01W	4	R 1/8"	9,3	7	13,0	18,7	15,6	10	3,5	6,7
MPL04R02W		R 1/4"	9,3	10	13,0	21,7	15,6	14	3,5	12,6
MPL04R03W		R 3/8"	9,3	10	13,0	21,7	15,6	17	3,5	19,1
MPL06R01W	6	R 1/8"	11,5	7	15,0	20,0	17,3	10	3,5	7,2
MPL06R02W		R 1/4"	11,5	10	15,0	23,0	17,3	14	3,5	13,2
MPL06R03W		R 3/8"	11,5	10	15,0	23,0	17,3	17	3,5	19,6
MPL08R01W	8	R 1/8"	13,6	7	16,9	21,8	21,2	10	4	6,3
MPL08R02W		R 1/4"	13,6	10	16,9	24,8	21,2	14	4	13,1
MPL08R03W		R 3/8"	13,6	10	16,9	24,8	21,2	17	4	19,6
MPL08R04W		R 1/2"	13,6	13	16,9	27,3	21,2	21	4	34,6
MPL10R02W	10	R 1/4"	16,4	10	18,9	26,8	24,6	15	9	14,0
MPL10R03W		R 3/8"	16,4	10	18,9	26,8	24,6	17	9	19,5
MPL10R04W		R 1/2"	16,4	13	18,9	29,8	24,6	21	9	33,4
MPL12R02W	12	R 1/4"	19,5	10	21,4	28,5	28,7	15	9,8	16,1
MPL12R03W		R 3/8"	19,5	10	21,4	28,5	28,7	17	9,8	21,6
MPL12R04W		R 1/2"	19,5	13	21,4	31,5	28,7	21	9,8	35,5

**MPL-G**

Swivel male elbow BSPP & metric thread



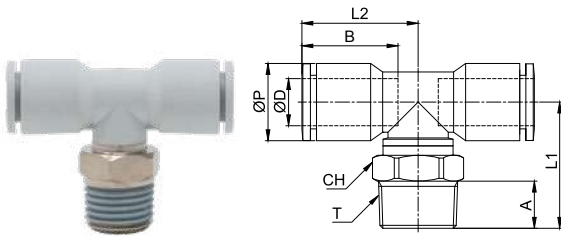
CODE	ØD	T	ØP	A	B	L1	L2	CH	DN	g
MPL04M5W	4	M5x0,8p	9,3	4	13,0	16,2	15,6	9	2,2	3,5
MPL04M6W		M6x1,0p	9,3	4	13,0	16,2	15,6	9	3	3,7
MPL04G01W		G 1/8"	9,3	5	13,0	16,7	15,6	14	3,5	8,2
MPL04G02W		G 1/4"	9,3	6,5	13,0	18,7	15,6	17	3,5	13,4
MPL04G03W		G 3/8"	9,3	6,5	13,0	18,2	15,6	20	3,5	19,1
MPL04G04W		G 1/2"	9,3	8	13,0	19,7	15,6	24	3,5	31,7
MPL06M5W	6	M5x0,8p	11,5	4	15,0	17,5	17,3	9	2,2	4,0
MPL06M6W		M6x1,0p	11,5	4	15,0	17,5	17,3	9	3	4,2
MPL06G01W		G 1/8"	11,5	5	15,0	18,0	17,3	14	4	8,7
MPL06G02W		G 1/4"	11,5	6,5	15,0	20,0	17,3	17	4	14,0
MPL06G03W		G 3/8"	11,5	6,5	15,0	19,5	17,3	20	4	19,7
MPL06G04W		G 1/2"	11,5	8	15,0	21,0	17,3	24	4	32,3
MPL08G01W	8	G 1/8"	13,6	5	16,9	21,8	21,2	14	6	10,3
MPL08G02W		G 1/4"	13,6	6,5	16,9	21,8	21,2	17	6	14,4
MPL08G03W		G 3/8"	13,6	6,5	16,9	21,3	21,2	20	6	19,4
MPL08G04W		G 1/2"	13,6	8	16,9	22,8	21,2	24	6	31,6
MPL10G01W	10	G 1/8"	16,4	5	18,9	23,3	24,6	17	9	13,9
MPL10G02W		G 1/4"	16,4	6,5	18,9	24,7	24,6	17	9	16,5
MPL10G03W		G 3/8"	16,4	6,5	18,9	22,8	24,6	20	9	20,0
MPL10G04W		G 1/2"	16,4	8	18,9	24,3	24,6	24	9	30,5
MPL12G01W	12	G 1/8"	19,5	5	21,4	25,0	28,7	17	9,6	15,5
MPL12G02W		G 1/4"	19,5	6,5	21,4	26,4	28,7	17	9,6	18,1
MPL12G03W		G 3/8"	19,5	6,5	21,4	24,5	28,7	20	9,6	21,6
MPL12G04W		G 1/2"	19,5	8	21,4	26,0	28,7	24	9,6	32,1





**MPT-R**

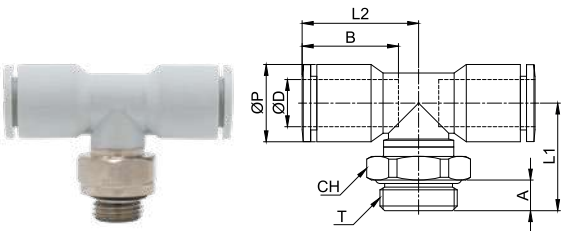
## Swivel male central Tee BSPT thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	DN	g
MPT04R01W	4	R 1/8"	9,3	7	13,0	18,7	15,6	10	3,5	7,4
MPT04R02W		R 1/4"	9,3	10	13,0	21,7	15,6	14	3,5	13,3
MPT04R03W		R 3/8"	9,3	10	13,0	21,7	15,6	17	3,5	19,8
MPT06R01W	6	R 1/8"	11,5	7	15,0	20,0	17,3	10	3,5	8,4
MPT06R02W		R 1/4"	11,5	10	15,0	23,0	17,3	14	3,5	14,4
MPT06R03W		R 3/8"	11,5	10	15,0	23,0	17,3	17	3,5	20,8
MPT08R01W	8	R 1/8"	13,6	7	16,9	21,8	21,2	10	4	7,9
MPT08R02W		R 1/4"	13,6	10	16,9	24,8	21,2	14	4	14,7
MPT08R03W		R 3/8"	13,6	10	16,9	24,8	21,2	17	4	21,2
MPT08R04W		R 1/2"	13,6	13	16,9	27,3	21,2	21	4	36,1
MPT10R02W	10	R 1/4"	16,4	10	18,9	26,8	24,6	15	9	16,4
MPT10R03W		R 3/8"	16,4	10	18,9	26,8	24,6	17	9	22,0
MPT10R04W		R 1/2"	16,4	13	18,9	29,8	24,6	21	9	35,9
MPT12R02W	12	R 1/4"	19,5	10	21,4	28,5	28,7	15	9,8	20,2
MPT12R03W		R 3/8"	19,5	10	21,4	28,5	28,7	17	9,8	25,8
MPT12R04W		R 1/2"	19,5	13	21,4	31,5	28,7	21	9,8	39,7

**MPT-G**

## Swivel male central Tee BSPP &amp; metric thread

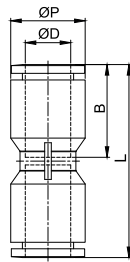


CODE	ØD	T	ØP	A	B	L1	L2	CH	DN	g
MPT04M5W	4	M5x0,8p	9,3	4	13,0	16,2	15,5	9	2,2	4,2
MPT04G01W		G 1/8"	9,3	5	13,0	16,7	15,6	14	3,5	8,9
MPT04G02W		G 1/4"	9,3	6,5	13,0	18,7	15,6	17	3,5	14,1
MPT04G03W		G 3/8"	9,3	6,5	13,0	18,2	15,6	20	3,5	19,8
MPT04G04W		G 1/2"	9,3	8	13,0	19,7	15,6	24	3,5	32,4
MPT06M5W	6	M5x0,8p	11,5	4	15,0	17,5	17,3	9	2,2	5,1
MPT06G01W		G 1/8"	11,5	5	15,0	18,0	17,3	14	4,0	9,9
MPT06G02W		G 1/4"	11,5	6,5	15,0	20,0	17,3	17	4,0	15,2
MPT06G03W		G 3/8"	11,5	6,5	15,0	19,5	17,3	20	4,0	20,9
MPT06G04W		G 1/2"	11,5	8	15,0	21,0	17,3	24	4,0	33,5
MPT08G01W	8	G 1/8"	13,6	5	16,9	21,8	21,2	14	6,0	11,9
MPT08G02W		G 1/4"	13,6	6,5	16,9	21,8	21,2	17	6,0	16,0
MPT08G03W		G 3/8"	13,6	6,5	16,9	21,3	21,2	20	6,0	21,0
MPT08G04W		G 1/2"	13,6	8	16,9	22,8	21,2	24	6,0	33,2
MPT10G01W	10	G 1/8"	16,4	5	18,9	23,3	24,6	17	9,0	16,4
MPT10G02W		G 1/4"	16,4	6,5	18,9	24,7	24,6	17	9,0	19,0
MPT10G03W		G 3/8"	16,4	6,5	18,9	22,8	24,6	20	9,0	22,5
MPT10G04W		G 1/2"	16,4	8	18,9	24,3	24,6	24	9,0	33,0
MPT12G01W	12	G 1/8"	19,5	5	21,4	25,0	28,7	17	9,6	19,5
MPT12G02W		G 1/4"	19,5	6,5	21,4	26,4	28,7	17	9,6	22,1
MPT12G03W		G 3/8"	19,5	6,5	21,4	24,5	28,7	20	9,6	25,6
MPT12G04W		G 1/2"	19,5	8	21,4	26,0	28,7	24	9,6	36,1



**MPUC**

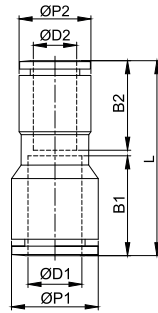
Union connector



CODE	ØD	ØP	B	L	DN	g
MPUC04W	4	9,3	13,0	27,0	3,5	1,5
MPUC06W	6	11,5	15,0	31,2	5	2,4
MPUC08W	8	13,6	16,9	35,3	7	3,4
MPUC10W	10	16,4	18,9	39,6	9	5,4
MPUC12W	12	19,5	21,4	44,6	11	8,6

**MPG**

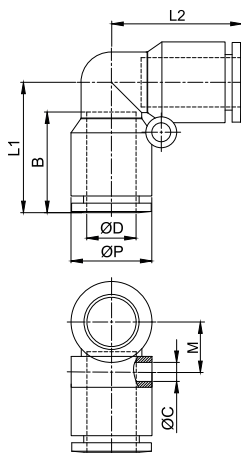
Reduced union connector



CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L	DN	g
MPG0604W	6	4	11,5	9,3	15,0	13,0	29,1	3,5	1,8
MPG0804W	8	4	13,6	9,3	16,9	13,0	32,4	3,5	2,3
MPG0806W	8	6	13,6	11,5	16,9	15,0	32,9	5	2,7
MPG1006W	10	6	16,4	11,5	19,8	15,0	35,0	5	3,7
MPG1008W	10	8	16,4	13,6	19,8	16,9	36,9	7	4,1
MPG1208W	12	8	19,5	13,6	21,4	16,9	40,1	7	5,7
MPG1210W	12	10	19,5	16,4	21,4	19,8	40,4	9	6,5

**MPUL**

Union elbow

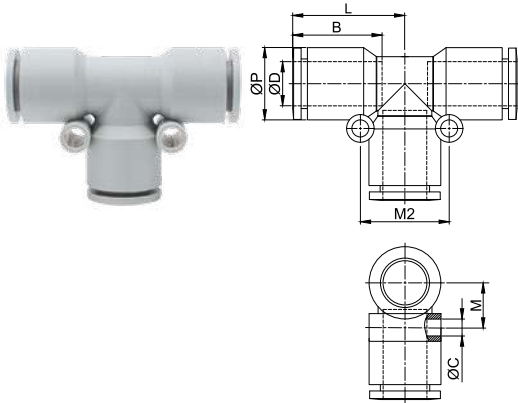


CODE	ØD	ØP	ØC	B	M	L1	L2	DN	g
MPUL04W	4	9,3	3,2	13,0	6,3	15,5	15,5	3,5	1,7
MPUL06W	6	11,5	3,2	15,0	7,4	18,9	18,9	5	2,8
MPUL08W	8	13,6	3,2	16,9	8,4	21,9	21,9	7	4,2
MPUL10W	10	16,4	4,2	19,8	10,3	25,1	25,1	9	6,5
MPUL12W	12	19,5	4,2	21,4	11,9	28,8	28,8	11	10,4



**MPUT**

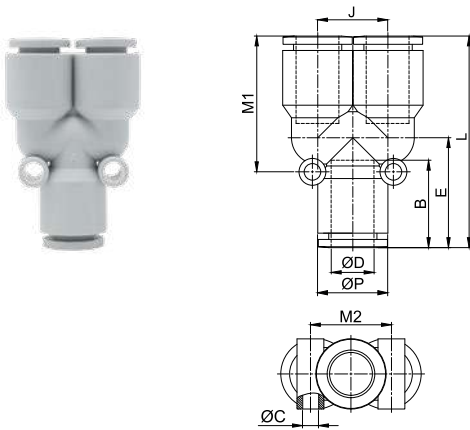
Union Tee



CODE	ØD	ØP	ØC	B	M1	M2	L	DN	g
MPUT04W	4	9,3	3,2	13,0	6,3	12,6	15,5	3,5	2,6
MPUT06W	6	11,5	3,2	15,0	7,4	14,8	18,9	5	4,2
MPUT08W	8	13,6	3,2	16,9	8,4	16,8	21,9	7	5,8
MPUT10W	10	16,4	4,2	18,9	10,3	20,6	25,1	9	9,5
MPUT12W	12	19,5	4,2	21,4	11,9	23,8	28,8	11	14,9

**MPY**

Union Y



CODE	ØD	ØP	ØC	B	E	M1	M2	J	L	DN	g
MPY04W	4	9,3	3,2	13,0	16,1	19,6	11,7	9,3	31,0	3,5	2,6
MPY06W	6	11,5	3,2	15,0	18,9	22,8	13,6	11,5	36,2	5	4,3
MPY08W	8	13,6	3,2	16,9	21,3	26,3	15,7	13,6	41,0	7	6,2
MPY10W	10	16,4	4,2	18,9	23,9	31	20,1	16,4	46,6	9	10,3
MPY12W	12	19,5	4,2	21,4	25,5	36	22,4	19,5	55,0	11	15,8

**SCPW**

Anti-spark cover

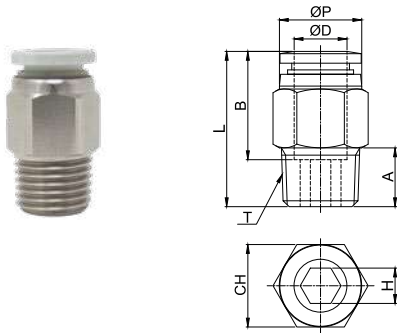


CODE	ØD1 TUBO	ØD2	ØP1	ØP2	L	g
SCPW08	10	13,4	12,6	16	29,0	2,2
SCPW10	12	16,2	14,6	18,8	31,5	3,0



**SMPC-R**

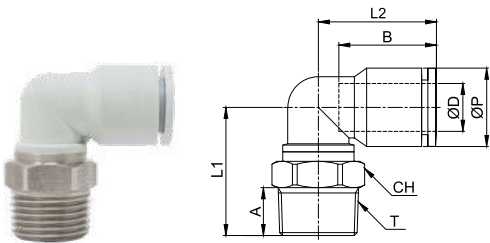
Male connector BSPT & metric thread, stainless steel AISI 303



CODE	ØD	T	ØP	A	B	L	CH	H	DN	g
SMPC04M5W	4	M5x0,8p	10	4	14,8	20,9	10	-	2,5	5,3
SMPC04R01W		R 1/8"	10	8	14,8	22,0	10	3	3	7,0
SMPC06M5W	6	M5x0,8p	12	4	16,4	23,1	12	-	2,5	7,2
SMPC06R01W		R 1/8"	12	8	16,4	23,4	12	4	4	7,8
SMPC06R02W		R 1/4"	12	10	16,4	21,9	14	5	5	11,6
SMPC06R03W		R 3/8"	12	11	16,4	22,9	17	5	5	26,6
SMPC08R01W	8	R 1/8"	14	8	18,4	28,4	14	5	5	11,7
SMPC08R02W		R 1/4"	14	10	18,4	26,4	14	6	6	12,0
SMPC08R03W		R 3/8"	14	11	18,4	23,9	17	6	6	19,9
SMPC08R04W		R 1/2"	14	14	18,4	29,4	19	6	6	49,3
SMPC10R02W	10	R 1/4"	16,1	10	19,7	31,4	17	6	6	19,3
SMPC10R03W		R 3/8"	16,1	11	19,7	27,5	17	8	8	20,1
SMPC10R04W		R 1/2"	16,1	14	19,7	29,9	19	8	8	39,0
SMPC12R02W	12	R 1/4"	19	10	21,9	33,7	19	6	6	24,6
SMPC12R03W		R 3/8"	19	11	21,9	30,7	19	8	8	21,9
SMPC12R04W		R 1/2"	19	14	21,9	30,2	19	8	8	30,2

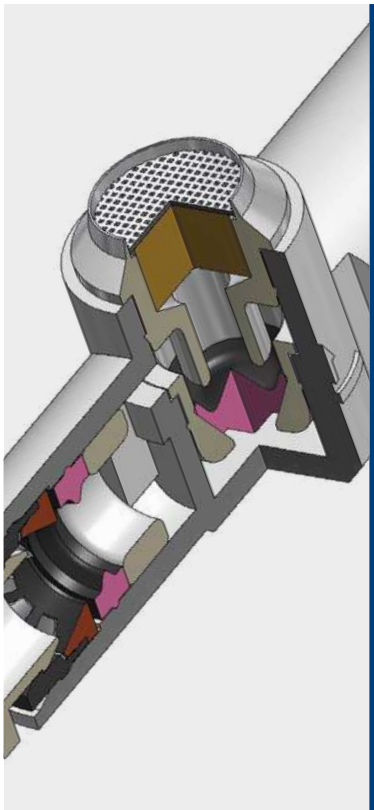
**SMPL-R**

Swivel male elbow BSPT & metric thread, PA66 and stainless steel AISI 303 thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	DN	g
SMPL04M5W	4	M5x0,8p	9,3	4	13	16,2	15,5	9	2,2	3,3
SMPL04R01W		R 1/8"	9,3	7	13	18,7	15,5	10	3,5	6,3
SMPL06M5W	6	M5x0,8p	11,5	4	15	17,5	17,3	9	2,2	3,8
SMPL06R01W		R 1/8"	11,5	7	15	20,0	17,3	10	3,5	6,8
SMPL06R02W		R 1/4"	11,5	10	15	23,0	17,3	14	3,5	12,2
SMPL06R03W		R 3/8"	11,5	10	15	23,0	17,3	17	3,5	18,5
SMPL08R01W	8	R 1/8"	13,6	7	16,9	21,8	21,2	10	4	6,1
SMPL08R02W		R 1/4"	13,6	10	16,9	24,8	21,2	14	4	12,2
SMPL08R03W		R 3/8"	13,6	10	16,9	24,8	21,2	17	4	18,7
SMPL08R04W		R 1/2"	13,6	13	16,9	27,8	21,2	21	4	32,7
SMPL10R02W	10	R 1/4"	16,4	10	18,9	26,8	24,7	15	9	13,4
SMPL10R03W		R 3/8"	16,4	10	18,9	26,8	24,7	17	9	18,7
SMPL10R04W		R 1/2"	16,4	13	18,9	29,8	24,7	21	9	31,4
SMPL12R02W	12	R 1/4"	19,5	10	21,4	28,5	28,3	15	9,8	15,5
SMPL12R03W		R 3/8"	19,5	10	21,4	28,5	28,3	17	9,8	20,8
SMPL12R04W		R 1/2"	19,5	13	21,4	31,5	28,3	21	9,8	33,5





-5°C ÷ 60°C



**Working pressure:**  
10 Bar  
**Min. working pressure:**  
1 Bar

Pressure peaks do not exceed the max working pressure



Compressed air



Polyamide PA, polyurethane PU, polyethylene PE

- Body: PA66
- Mesh: Stainless steel AISI 301
- Back ring: PA66
- Seal: NBR
- Lock claw: Stainless steel AISI 301
- Collar: PA66
- Seat ring: Brass
- Holder: POM
- Collet: PA66
- Filter: PE
- Housing: Ottone
- Valve: NBR

**SILICONE FREE**

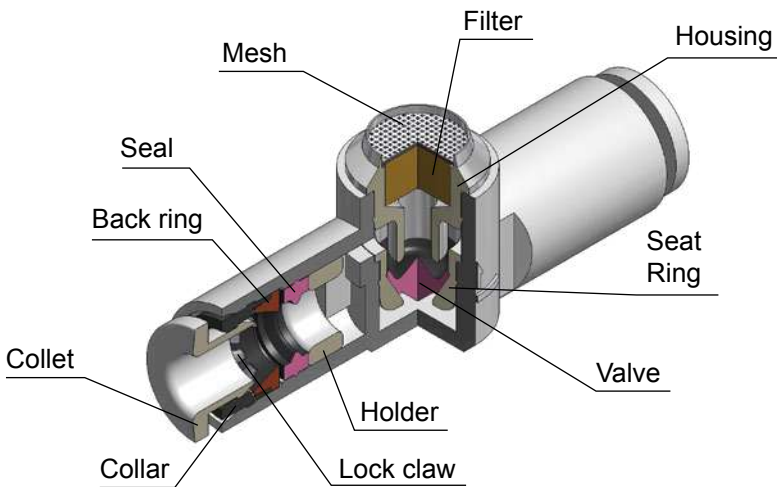


Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**PLUS - MEVU**

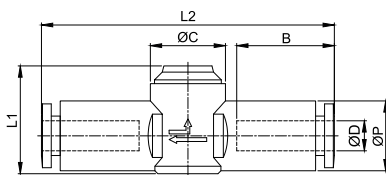
Silenced exhaust to the atmosphere through the incorporated silencer.

Easy assembly thanks to push-in fittings incorporated.

Suitable for multiple applications thanks to light weight and compact size.

**MEVU**

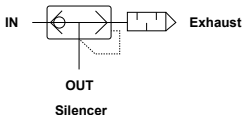
Quick exhaust valve with silencer

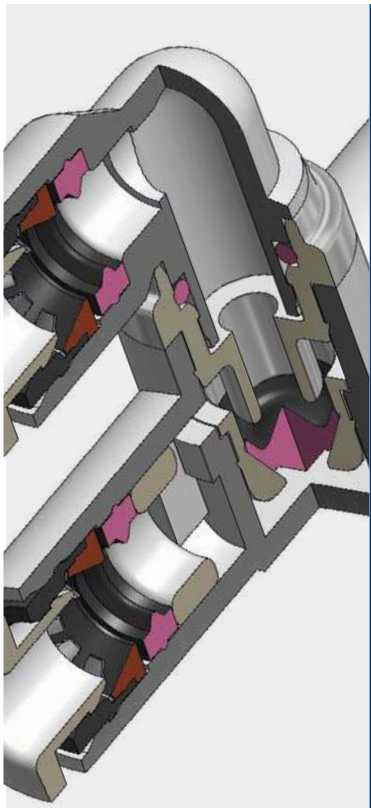


CODE	ØD	ØP	ØC	B	L1	L2	g
MEVU04W	4	9,3	10	13,0	14,4	39,0	4,5
MEVU06W	6	11,5	10	14,5	15,9	41,7	5,5

Section in mm<sup>2</sup>

CODE	Ø TUBE (mm)	IN - OUT	OUT - EXHAUST
MEVU04W	4	1,7	2,5
MEVU06W	6	2,4	2,7





-5°C ÷ 60°C



Working pressure:  
10 Bar  
Min. working pressure:  
1 Bar

Pressure peaks do not exceed the max working pressure



Compressed air



Polyamide PA, polyurethane PU, polyethylene PE

**SILICONE FREE**

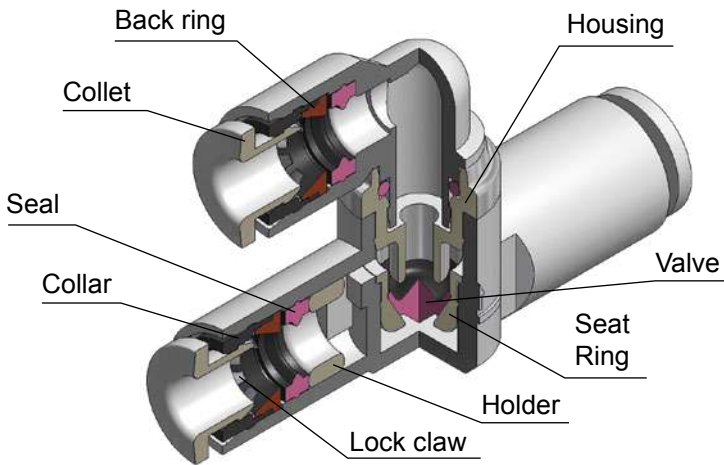


Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**PLUS - MEVS**

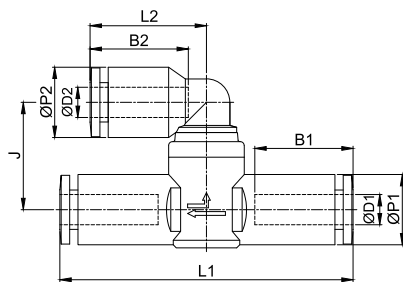
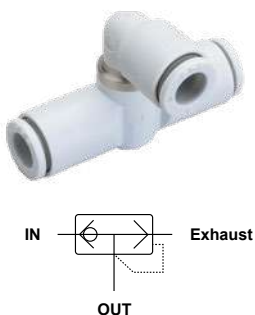
Connection exhaust to be conveyed.

Easy assembly thanks to push-in fittings incorporated.

Suitable for multiple applications thanks to the light weight and compact size.

**MEVS**

Quick exhaust valve with push-in fittings

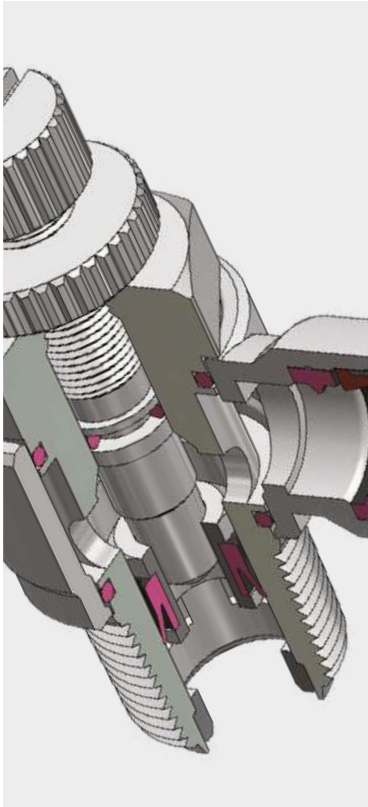


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	J	g
MEVS04W	4	4	13,0	13,0	9,3	9,3	39,0	15,4	14,2	5,9
MEVS06W	6	6	14,5	14,5	11,5	11,5	41,7	17,3	15,6	7,5

Section in mm<sup>2</sup>

CODE	Ø TUBE (mm)	IN - OUT	OUT - EXHAUST
MEVS04W	4	1,7	2,5
MEVS06W	6	2,4	2,7





0°C ÷ 60°C



**Working pressure:**  
10 Bar

**Negative pressure:**  
- 0,95 Bar ( - 95 kPa)

Pressure peaks do not exceed the max working pressure



Compressed air & vacuum  
(do not use with water)



- Taper gas BSPT ISO 7 from R1/8" to R1/2" with teflon
- Parallel gas BSPP ISO 228 with OR from G1/8" to G1/2"
- Metric ISO 262 M5



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE



Manual flow adjustment and screwdriver



- Body: Nickel-plated brass and PA66
- Collet: PA66
- Collar: PA66
- Lock claw: Stainless steel AISI 301
- Back ring: POM
- Seal: NBR
- O-ring: NBR
- Handle: Nickel-plated brass
- Lock nut: Nickel-plated brass

**SILICONE FREE**

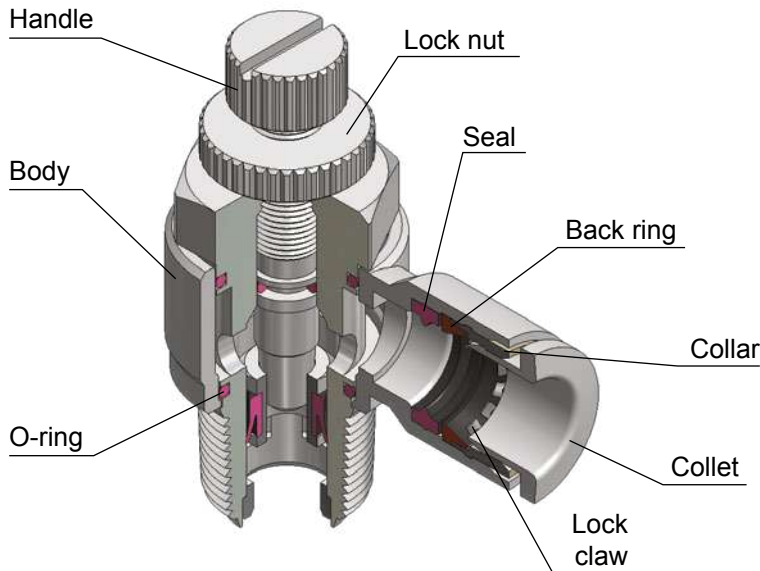


Products in compliance with EC Regulation 1907/2006

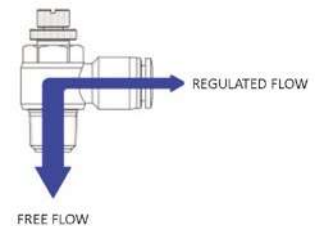
**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**EXHAUST (FOR CYLINDERS)**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

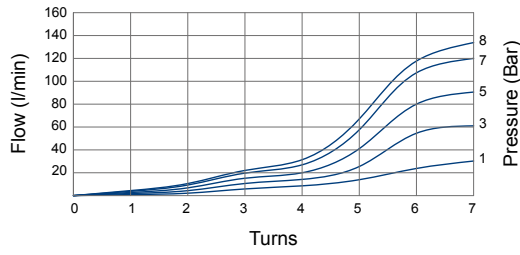
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	1/8"	1/4"	3/8"	1/2"
Nm	1,5	10	15	25	40

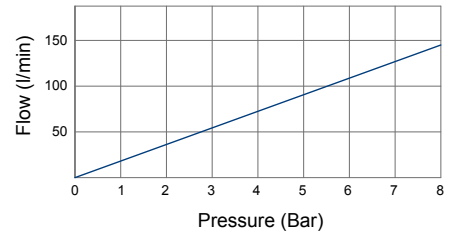


**MSC04M5  
MSC06M5**

Flow Control

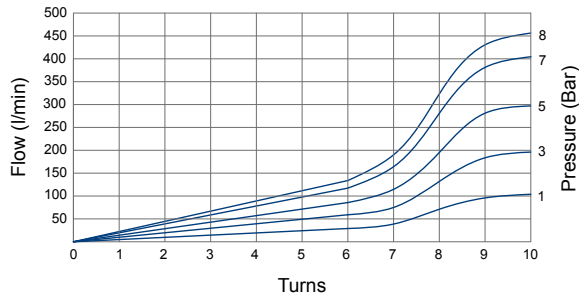


Free Flow

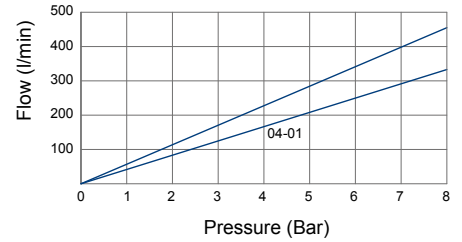


**MSC0401  
MSC0601  
MSC0801  
MSC1001**

Flow Control

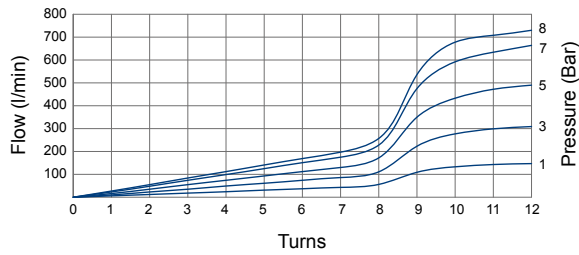


Free Flow

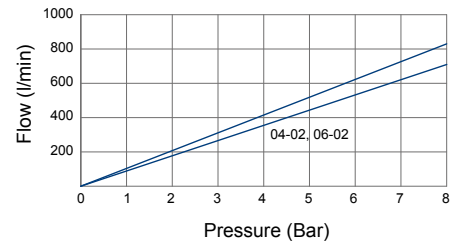


**MSC0402  
MSC0602  
MSC0802  
MSC1002  
MSC1202**

Flow Control

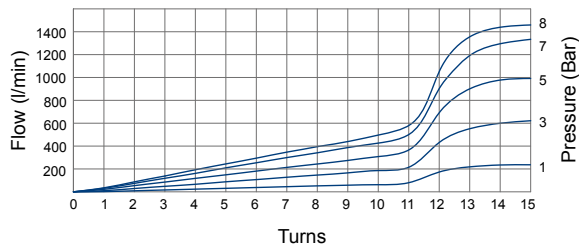


Free Flow

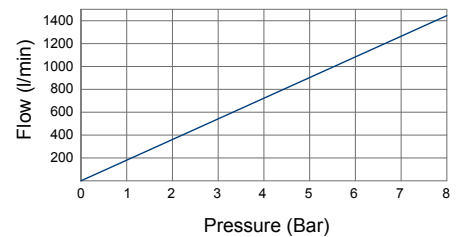


**MSC0603  
MSC0803  
MSC1003  
MSC1203**

Flow Control

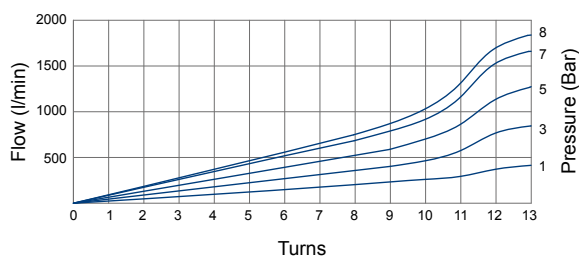


Free Flow

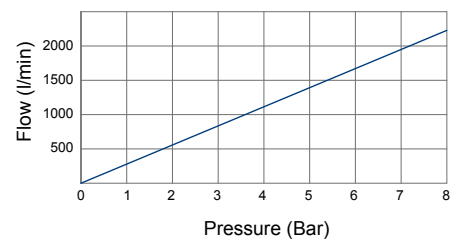


**MSC0604  
MSC0804  
MSC1004  
MSC1204**

Flow Control



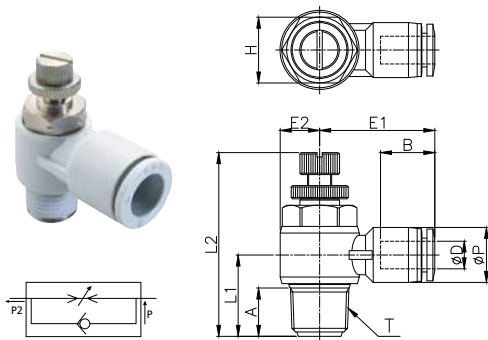
Free Flow





**MSC-R**

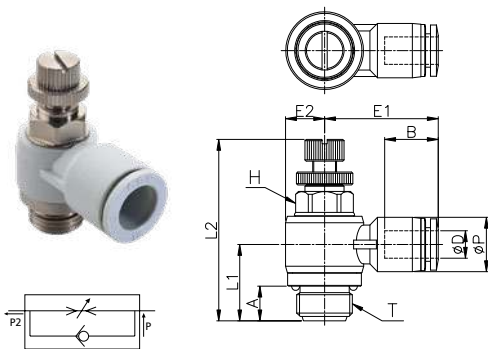
Banjo male elbow flow regulator unidirectional, for cylinders, adjustable BSPT thread with handle regulation



CODE	ØD	T	ØP	L1	L2 MIN	L2 MAX	E1	E2	A	B	H
MSC04R01	4	R 1/8"	9,3	15,0	35,5	40,7	20,0	7,0	8,2	13,0	11
MSC04R02		R 1/4"	9,3	18,5	40,3	46,6	22,0	9,0	11,0	13,0	15
MSC06R01	6	R 1/8"	11,5	15,1	35,5	40,7	22,1	7,0	8,2	15,0	11
MSC06R02		R 1/4"	11,5	18,3	40,3	46,5	24,0	9,0	11,0	15,0	15
MSC06R03		R 3/8"	11,5	21,7	46,9	55,0	26,1	11,0	12,2	15,0	19
MSC06R04		R 1/2"	11,5	26,4	54,0	60,1	28,8	13,8	16,5	15,0	24
MSC08R01	8	R 1/8"	13,6	16,2	35,5	40,7	24,2	7,1	8,2	17,1	11
MSC08R02		R 1/4"	13,6	19,2	40,3	46,6	26,1	9,0	11,0	17,1	15
MSC08R03		R 3/8"	13,6	21,7	46,9	54,9	28,2	11,1	12,2	17,1	19
MSC08R04		R 1/2"	13,6	26,4	54,0	60,1	30,9	13,8	16,5	17,1	24
MSC10R01	10	R 1/8"	16,4	17,6	35,5	40,7	26,8	7,1	8,2	18,4	11
MSC10R02		R 1/4"	16,4	20,6	40,3	46,6	28,6	9,0	11,0	18,4	15
MSC10R03		R 3/8"	16,4	23,0	46,9	54,9	29,5	11,1	12,2	18,4	19
MSC10R04		R 1/2"	16,4	26,4	54,0	60,1	32,2	13,8	16,5	18,4	24
MSC12R02	12	R 1/4"	19,5	22,1	40,3	46,6	30,9	9,0	11,0	20,4	15
MSC12R03		R 3/8"	19,5	23,8	46,9	54,9	32,7	11,1	12,2	20,4	19
MSC12R04		R 1/2"	19,5	27,9	54,0	60,1	35,2	13,8	16,5	21,4	24

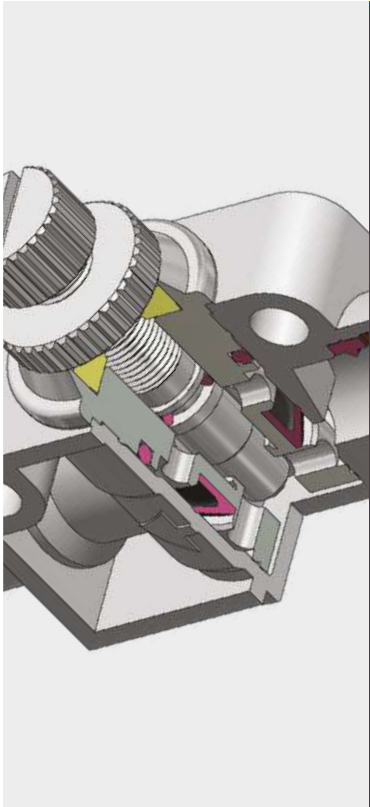
**MSC-G**

Banjo male swivel elbow flow regulator unidirectional, for cylinders, BSPP & metric thread with handle regulation



CODE	ØD	T	ØP	L1	L2 MIN	L2 MAX	E1	E2	A	B	H
MSC04M5	4	M5x0.8P	9,3	10,2	27,1	29,1	17,8	4,9	3,6	12,9	8
MSC04G01		G 1/8"	9,3	15,2	34,6	39,8	20,0	7,1	6,0	12,9	8
MSC04G02		G 1/4"	9,3	18,2	39,8	46,1	21,9	9,0	8,0	12,9	12
MSC06M5	6	M5x0.8P	11,5	11,3	27,1	29,1	20,9	4,9	3,6	15,0	8
MSC06G01		G 1/8"	11,5	15,2	34,6	39,8	22,1	7,1	6,0	15,0	8
MSC06G02		G 1/4"	11,5	18,3	39,8	46,1	24,0	9,0	8,0	15,0	12
MSC06G03		G 3/8"	11,5	21,2	47,7	54,9	26,1	11,1	8,0	15,0	14
MSC06G04		G 1/2"	11,5	23,0	54,5	61,7	28,8	13,8	9,0	15,0	17
MSC08G01	8	G 1/8"	13,6	13,9	34,6	39,8	24,2	7,1	6,0	17,1	8
MSC08G02		G 1/4"	13,6	17,4	39,8	46,1	26,1	9,0	8,0	17,1	12
MSC08G03		G 3/8"	13,6	21,2	47,7	54,9	28,2	11,1	8,0	17,1	14
MSC08G04		G 1/2"	13,6	23,0	54,5	61,7	30,9	13,8	9,0	17,1	17
MSC10G01	10	G 1/8"	16,4	17,8	34,6	39,8	25,5	7,1	6,0	18,4	8
MSC10G02		G 1/4"	16,4	19,8	39,8	46,1	27,4	9,0	8,0	18,4	12
MSC10G03		G 3/8"	16,4	19,9	47,7	54,9	29,5	11,1	8,0	18,4	14
MSC10G04		G 1/2"	16,4	23,0	54,5	61,7	32,2	13,8	9,0	18,4	17
MSC12G02	12	G 1/4"	29,5	21,3	34,6	39,8	29,4	9,0	8,0	20,4	12
MSC12G03		G 3/8"	29,5	19,1	47,7	54,9	32,7	11,1	8,0	20,4	14
MSC12G04		G 1/2"	29,5	21,4	54,5	61,7	35,2	13,8	9,0	21,4	17





0°C ÷ 60°C



**Working pressure:**

10 Bar

**Negative pressure:**

- 0,95 Bar (- 95 kPa)

Pressure peaks do not exceed the max working pressure



Compressed air & vacuum  
(do not use with water)



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE



Manual flow adjustment and  
screwdriver

**Body:** PA66 & Nickel-plated brass

**Collet:** PA66

**Collar:** PA66

**Lock claw:** Stainless steel AISI 301



**Back ring:** POM

**Seal:** NBR

**O-ring:** NBR

**Handle:** Nickel-plated brass

**Lock nut:** Nickel-plated brass

**SILICONE FREE**

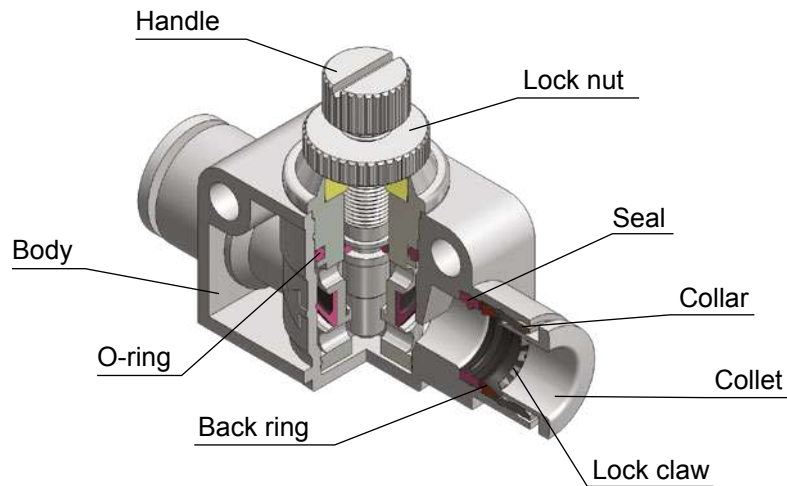


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

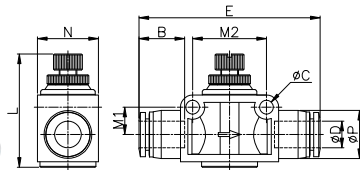
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**

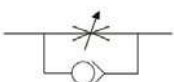


**MSF**

Unidirectional flat flow regulator, in technopolymer, with handle regulation



CODE	ØD	ØP	L MIN	L MAX	E	N	ØC	B	M1	M2
MSF04	4	9,5	26,4	28,9	38,8	11,0	3,2	13,4	5,4	15,4
MSF06	6	11,5	33,5	37,9	46,5	15,0	4,3	15,0	7,8	20,4
MSF08	8	13,6	35,5	41,5	53,1	18,0	4,3	17,1	8,5	23,0
MSF10	10	16,4	40,7	48,7	60,4	22,5	4,3	18,9	10,6	27,6
MSF12	12	19,5	45,0	53,5	70,8	26,5	4,3	21,4	11,9	32,4



# PUSH-IN FITTINGS OTR SERIES

PLUS

**HIGH PERFORMANCE FITTINGS**, easy to use

**STRONG** but **COMPACT** in order to ensure the maximum assembling flexibility

**COMPLETE RANGE** suitable to be used with different kinds of tubing

**ELECTROLYTIC NICKEL PLATING** to ensure the maximum duration over time

**STATIC GRIPPING SYSTEM** in order to stop all movement of the tube when inserted, granting a **A LEAK-PROOF CONNECTION**

Every fitting is **DESIGNED TO GUARANTEE THE MAXIMUM POSSIBLE FLOW RATE** according to the diameter of the tube and of the thread

**PRODUCTS CAN BE TAILOR-MADE TO SPECIFIC CUSTOMER NEEDS**

M A D E I N I T A L Y





p. 63 / **OTRC-R**



p. 63 / **OTRC-G**



p. 64 / **OTRC-N**



p. 64 / **OTROC-G**



p. 64 / **OTROC-N**



p. 65 / **OTRCF-G**



p. 65 / **OTRMM**



p. 65 / **OTRME**



p. 66 / **OTRL-R**



p. 66 / **OTRL-G**



p. 67 / **OTRL-N**



p. 67 / **OTRLF-G**



p. 67 / **OTRT-R**



p. 68 / **OTRT-G**



p. 68 / **OTRT-N**



p. 69 / **OTRST-R**



p. 69 / **OTRST-G**



p. 70 / **OTRA-G**



p. 70 / **OTRUC**



p. 71 / **OTRUL**



p. 71 / **OTRUT**

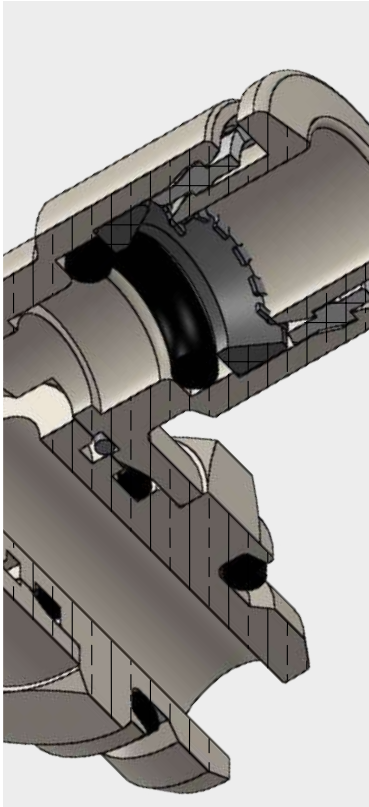


p. 72 / **OTRY**



p. 72 / **OTRGJ**





-20°C ÷ 80°C



**Working pressure:**

20 Bar



**Negative pressure:**

-0,95 Bar ( - 95 kPa)



Compressed air & Vacuum



- Taper gas BSPT ISO 7 from R1/8" to R1/2"
- Parallel gas BSPP ISO 228 from G1/8" to G1/2"
- Metric ISO 262 M5 and M7
- NPT ANSI B 1.20.1 from N1/8" to N1/2"
- UNF ANSI B 1.1 10-32 UF



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE

- Body:** Nickel-plated brass
- Turning: UNI EN 12164 CW614N
- Hot forging & machining: UNI EN 12164 CW617N
- Collar:** POM
- Collet:** Nickel-plated brass  
UNI EN 12164 CW614N
- Lock claw:** Stainless steel AISI 301
- Back ring:** PBT
- O-ring:** NBR silicone free
- Seal:** NBR silicone free
- Retaining ring for swivel systems:** Stainless steel AISI 302



**SILICONE FREE**

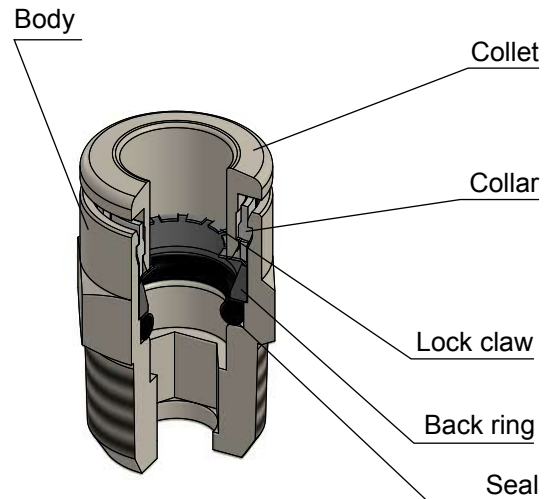
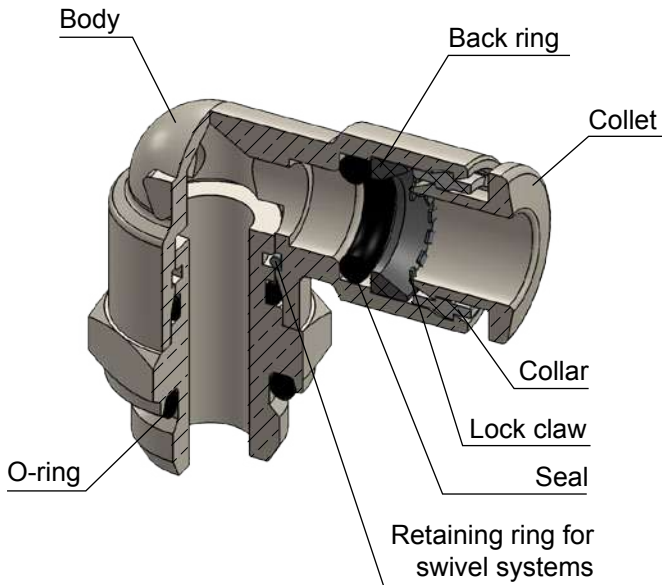


Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**

TAPER GAS BSPT ISO 7 & NPT ANSI B 1.20.1

THREAD	1/8"	1/4"	3/8"	1/2"	1/8" NPT	1/4" NPT	3/8" NPT	1/2" NPT
Nm	10-12	14-16	16-18	18-20	3,5	4,5	7	12

**TIGHTENING TORQUE**

PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M7x1,0	1/8"	1/4"	3/8"	1/2"
Nm	1 ± 20%	3 ± 20%	6 ± 20%	7,5 ± 20%	9 ± 20%	9 ± 20%

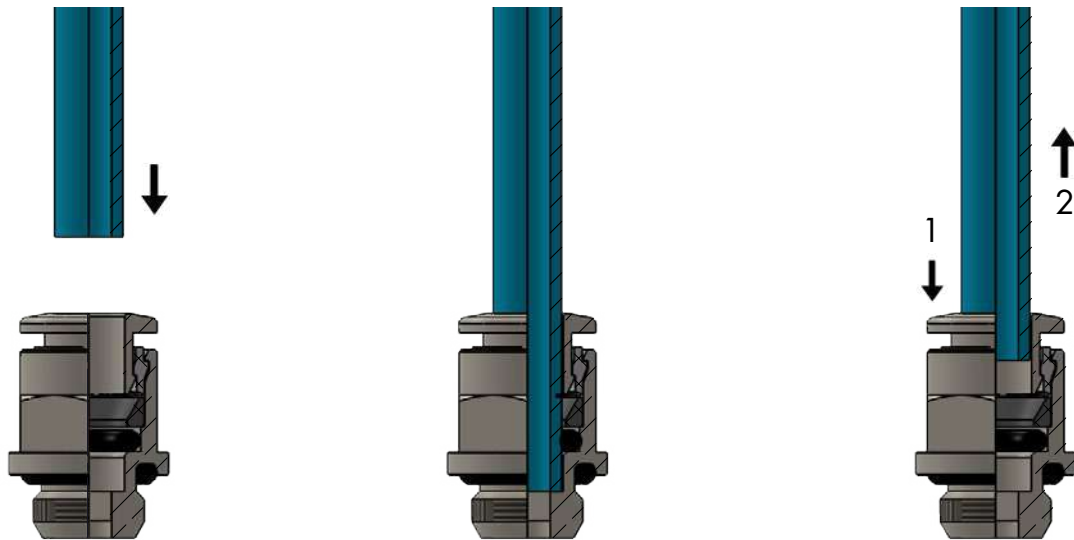


**INSERTION OF THE TUBE INTO THE FITTING**

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

**DISCONNECTION OF THE TUBE FROM THE FITTING**

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



**TOLERANCES - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15

**INSERTION DEPTH - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TUBE INSERTION LENGHT (mm)	14	15,5	17,5	19	21

**TOLERANCES - INCH TUBE**

Ø TUBE (inch)	5/32"	1/4"	5/16"	3/8"	1/2"
TOLERANCE (mm)	±0,1	±0,1	±0,1	± 0,15	± 0,15

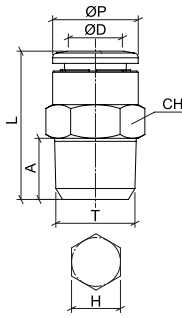
**INSERTION DEPTH - INCH TUBE**

Ø TUBE (inch)	5/32"	1/4"	5/16"	3/8"	1/2"
TUBE INSERTION LENGHT (mm)	14	16	17,5	18,5	21,5



**OTRC-R**

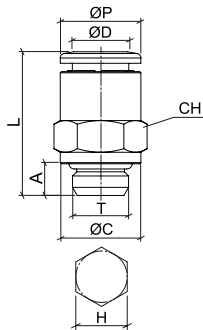
## Male connector BSPT thread nickel-plated - metric tube



CODE	ØD	T	ØP	A	L	CH	H	g
OTRC04R01	4	R 1/8"	10	8	18,5	10	3	7,0
OTRC04R02		R 1/4"	10	10	20,0	14	3	15,4
OTRC06R01	6	R 1/8"	12	8	21,0	12	4	9,0
OTRC06R02		R 1/4"	12	10	20,5	14	4	14,0
OTRC08R01	8	R 1/8"	14	8	26,0	14	5	15,0
OTRC08R02		R 1/4"	14	10	24,0	14	6	15,0
OTRC08R03		R 3/8"	14	11	22,0	17	6	24,0
OTRC10R02	10	R 1/4"	16	10,5	30,0	16	7	22,0
OTRC10R03		R 3/8"	16	11	25,0	17	8	23,0
OTRC10R04		R 1/2"	16	14	25,5	22	8	45,0
OTRC12R02	12	R 1/4"	19	10	33,0	19	6	21,0
OTRC12R03		R 3/8"	19	11	29,5	19	10	27,0
OTRC12R04		R 1/2"	19	14	27,0	22	10	44,5

**OTRC-G**

## Male connector BSPP &amp; metric thread nickel-plated - metric tube



CODE	ØD	T	ØP	ØC	A	L	CH	H	g
OTRC04M5	4	M5x0,8	10	7	4	19,0	9	2,5	5,0
OTRC04G01		G 1/8"	10	14	5,5	18,0	10	3	8,0
OTRC04G02		G 1/4"	10	16	6,5	18,0	10	3	11,0
OTRC06M5	6	M5x0,8	12	7	4	21,0	11	2,5	8,0
OTRC06G01		G 1/8"	12	14	5,5	19,5	12	4	9,0
OTRC06G02		G 1/4"	12	16	6,5	19,5	12	4	12,0
OTRC08G01	8	G 1/8"	14	14	5,5	24,5	14	5	14,0
OTRC08G02		G 1/4"	14	16	6,5	21,5	14	6	13,5
OTRC08G03		G 3/8"	14	20	7,5	21,5	14	6	20,0
OTRC10G02	10	G 1/4"	16	16	6,5	27,5	16	7	19,0
OTRC10G03		G 3/8"	16	20	7,5	25,0	16	8	22,0
OTRC10G04		G 1/2"	16	25	9	25,0	16	8	33,0
OTRC12G02	12	G 1/4"	19	16	6,5	30,0	19	6	28,0
OTRC12G03		G 3/8"	19	22	7,5	29,5	19	10	30,0
OTRC12G04		G 1/2"	19	25	9	28,0	19	10	37,0

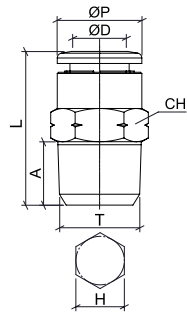
## Male connector BSPP &amp; metric thread nickel-plated - inch tube

CODE	ØD	T	ØP	ØC	A	L	CH	H	g
OTRC1-4M5	1/4"	M5x0,8	13	7	4	22,0	13	2,5	8,0
OTRC1-4G01		G 1/8"	13	13	5,5	20,0	13	4	9,0
OTRC38G03	3/8"	G 3/8"	16	20	7,5	25,0	16	8	22,0



**OTRC-N**

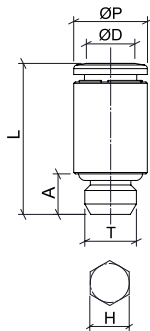
Male connector NPT thread nickel-plated - inch tube



CODE	ØD	T	ØP	A	L	CH	H	g
OTRC532N01	5/32"	N 1/8"	10	8,5	19,0	7/16"	1/8"	9,0
OTRC532N02		N 1/4"	10	10,5	20,5	9/16"	1/8"	16,0
OTRC1-4N01	1/4"	N 1/8"	13	8,5	22,5	1/2"	3/16"	11,0
OTRC1-4N02		N 1/4"	13	10,5	22,5	9/16"	3/16"	15,0
OTRC516N01	5/16"	N 1/8"	14	8,5	27,0	9/16"	3/16"	15,5
OTRC516N02		N 1/4"	14	10,5	25,5	9/16"	1/4"	16,0
OTRC516N03		N 3/8"	14	11,5	23,5	11/16"	1/4"	25,0
OTRC38N01	3/8"	N 1/8"	16	8,5	29,0	11/16"	3/16"	21,5
OTRC38N02		N 1/4"	16	10,5	30,0	11/16"	1/4"	25,0
OTRC38N03		N 3/8"	16	11,5	26,0	11/16"	5/16"	24,0
OTRC38N04		N 1/2"	16	14,5	27,0	7/8"	5/16"	46,0
OTRC1-2N02	1/2"	N 1/4"	19	10,5	34,0	7/8"	1/4"	37,0
OTRC1-2N03		N 3/8"	19	11,5	34,5	7/8"	3/8"	39,0
OTRC1-2N04		N 1/2"	19	14,5	30,5	7/8"	3/8"	43,0

**OTROC-G**

Male connector round body metric thread nickel-plated - metric tube

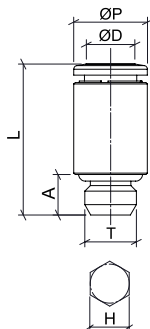


CODE	ØD	T	ØP	A	L	H	g
OTROC04M5	4	M5x0,8	10	4	19,0	2,5	-
OTROC04M6	4	M6x1	10	4,5	20,0	2,5	-
OTROC04M7	4	M7x1	10	5,5	20,5	2,5	-
OTROC06M5	6	M5x0,8	12	4	21,1	2,5	-
* OTROC06M7C	6	M7x1	10	5,5	20,5	4	-

\* compact version

**OTROC-N**

Male connector round body UNF thread nickel-plated - inch tube



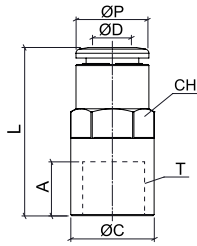
CODE	ØD	T	ØP	A	L	H	g
OTROC532UF1032	5/32"	UNF 10-32	10	4	19,0	3/32"	12,0
OTROC1-4UF1032	1/4"	UNF 10-32	13	4	21,5	3/32"	16,0





**OTRCF-G**

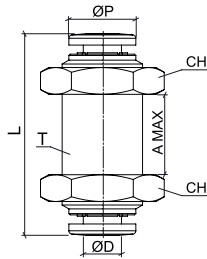
Female connector BSPP thread nickel-plated - metric tube



CODE	ØD	T	ØP	ØC	A	L	CH	g
OTRCF04G01	4	G 1/8"	10	13	7,5	24,5	10	-
OTRCF04G02		G 1/4"	10	16	11	28,5	10	-
OTRCF06G01	6	G 1/8"	12	13	7,5	26,1	12	-
OTRCF06G02		G 1/4"	12	16	11	29,6	12	-
OTRCF08G01	8	G 1/8"	14	13	7,5	27,2	14	-
OTRCF08G02		G 1/4"	14	16	11	32,2	14	-

**OTRMM**

Bulkhead connector nickel-plated - metric tube



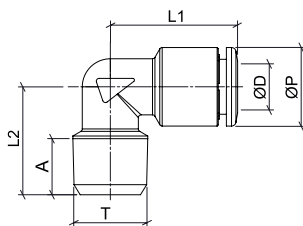
CODE	ØD	T	ØP	L	A MAX	CH	g
OTRMM04-532	4	M12x1	10	30,0	12	16	23,0
OTRMM0600	6	M14x1	12	35,5	15	17	31,0
OTRMM08-516	8	M16x1	14	36,5	16	19	36,0
OTRMM1000	10	M20x1	16	43,0	19	24	70,0
OTRMM1200	12	M22x1,5	19	44,0	20	25	76,0

Bulkhead connector nickel-plated - inch tube

CODE	ØD	T	ØP	L	A MAX	CH	g
OTRMM1-4	1/4"	M16x1	13	35,6	13	17	31,0
OTRMM38	3/8"	M20x1	16	42,5	17	24	70,0

**OTRME**

Male elbow BSPT thread nickel-plated - metric tube

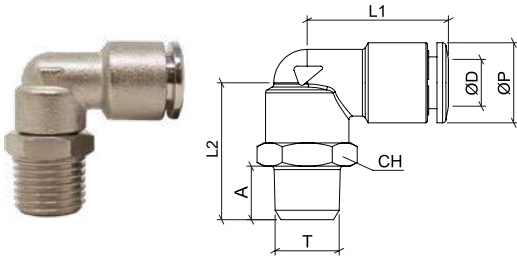


CODE	ØD	T	ØP	A	L1	L2	g
OTRME04R01	4	R 1/8"	10	8	18,0	15,5	11,0
OTRME06R01	6	R 1/8"	12	8	19,5	15,5	15,0
OTRME06R02		R 1/4"	12	10	20,5	19,0	20,0
OTRME08R01	8	R 1/8"	14	8	22,5	16,5	20,0
OTRME08R02		R 1/4"	14	10	22,5	19,0	24,0



**OTRL-R**

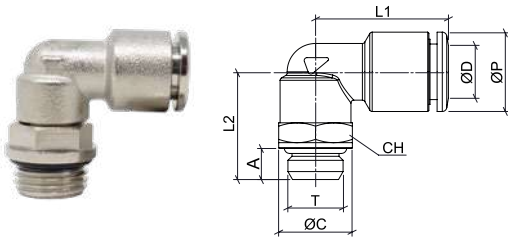
Swivel male elbow BSPT thread nickel-plated - metric tube



CODE	ØD	T	ØP	A	L1	L2	CH	g
OTRL04R01	4	R 1/8"	10	8	19,5	20,5	13	20,0
OTRL04R02		R 1/4"	10	10	19,5	23,0	14	23,0
OTRL06R01	6	R 1/8"	12	8	21,0	20,5	13	20,0
OTRL06R02		R 1/4"	12	10	21,0	23,0	14	24,0
OTRL08R01	8	R 1/8"	14	8	23,0	20,5	13	22,0
OTRL08R02		R 1/4"	14	10	23,0	23,0	14	26,0
OTRL08R03		R 3/8"	14	11	23,0	24,5	17	32,0
OTRL10R02	10	R 1/4"	16	10	26,0	25,5	16	41,0
OTRL10R03		R 3/8"	16	11	26,0	27,0	17	45,0
OTRL10R04		R 1/2"	16	14	26,0	30,0	22	59,0
OTRL12R02	12	R 1/4"	19	10	31,0	28,0	20	56,0
OTRL12R03		R 3/8"	19	11	31,0	28,5	20	59,0
OTRL12R04		R 1/2"	19	14	31,0	31,5	22	70,0

**OTRL-G**

Swivel male elbow BSPP & metric thread nickel-plated - metric tube



CODE	ØD	T	ØP	ØC	A	L1	L2	CH	g
OTRL04M5	4	M5x0,8	10	7	4	18,0	15,0	8	5,0
OTRL04G01		G 1/8"	10	13	5,5	19,5	19,0	13	19,0
OTRL04G02		G 1/4"	10	16	6,5	19,5	21,5	13	22,0
OTRL06M5	6	M5x0,8	12	7	4	19,5	16,0	8	11,0
OTRL06G01		G 1/8"	12	13	5,5	21,0	19,0	13	20,0
OTRL06G02		G 1/4"	12	16	6,5	21,0	21,5	13	24,0
OTRL08G01	8	G 1/8"	14	13	5,5	23,0	19,0	13	22,0
OTRL08G02		G 1/4"	14	16	6,5	23,0	21,5	13	24,0
OTRL08G03		G 3/8"	14	20	7,5	23,0	23,0	13	28,0
OTRL10G02	10	G 1/4"	16	16	6,5	26,0	23,0	16	35,0
OTRL10G03		G 3/8"	16	20	7,5	26,0	26,0	16	43,5
OTRL10G04		G 1/2"	16	25	9	26,0	27,5	16	52,0
OTRL12G02	12	G 1/4"	19	16	6,5	31,0	25,5	20	55,0
OTRL12G03		G 3/8"	19	20	7,5	31,0	26,5	20	55,0
OTRL12G04		G 1/2"	19	25	9	31,0	29,0	20	63,0

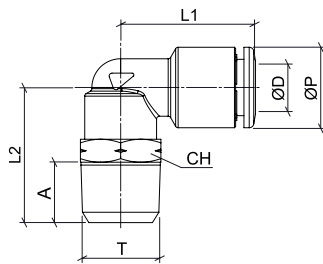
Swivel male elbow BSPP thread nickel-plated - inch tube

CODE	ØD	T	ØP	ØC	A	L1	L2	CH	g
OTRL1-4G01	1/4"	G 1/8"	13	13	5,5	22,0	19,0	13	20,0
OTRL1-4G02		G 1/4"	13	16	6,5	22,0	21,5	13	24,0
OTRL38G02	3/8"	G 1/4"	16	16	6,5	26,0	23,0	16	35,0
OTRL38G03		G 3/8"	16	20	7,5	26,0	26,0	16	43,5



**OTRL-N**

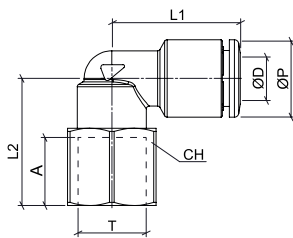
Swivel male elbow NPT &amp; UNF thread nickel-plated - inch tube



CODE	ØD	T	ØP	A	L1	L2	CH	g
OTRL532UF1032	5/32"	UNF 10/32"	10	4	18,0	15,0	3/8"	11,0
OTRL532N01		N 1/8"	10	8,5	19,5	21,0	9/16"	20,5
OTRL532N02		N 1/4"	10	10,5	19,5	23,5	9/16"	24,0
OTRL1-4N01	1/4"	N 1/8"	13	8,5	21,5	21,0	9/16"	23,0
OTRL1-4N02		N 1/4"	13	10,5	21,5	23,5	9/16"	26,0
OTRL516N01	5/16"	N 1/8"	14	8,5	23,5	21,0	9/16"	23,0
OTRL516N02		N 1/4"	14	10,5	23,5	23,5	9/16"	24,0
OTRL516N03		N 3/8"	14	11,5	23,5	25,0	11/16"	34,0
OTRL38N01	3/8"	N 1/8"	16	8,5	26,0	24,0	11/16"	40,0
OTRL38N02		N 1/4"	16	10,5	26,0	26,0	11/16"	43,0
OTRL38N03		N 3/8"	16	11,5	26,0	27,5	11/16"	47,0
OTRL38N04		N 1/2"	16	14,5	26,0	30,5	7/8"	60,0
OTRL1-2N02	1/2"	N 1/4"	19	10,5	31,0	28,5	7/8"	58,0
OTRL1-2N03		N 3/8"	19	11,5	31,0	29,5	7/8"	61,0
OTRL1-2N04		N 1/2"	19	14,5	31,0	32,5	7/8"	67,0

**OTRLF-G**

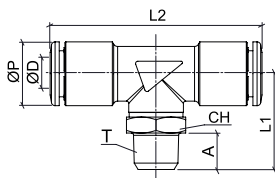
Swivel female elbow BSPP thread nickel-plated - metric tube



CODE	ØD	T	ØP	A	L1	L2	CH	g
OTRLF04G01	4	G 1/8"	10	7,5	19,5	19,2	13	-
OTRLF06G01	6	G 1/8"	12	7,5	21,1	19,0	13	-
OTRLF06G02		G 1/4"	12	11	21,1	23,0	16	-
OTRLF08G01	8	G 1/8"	14	7,5	23,2	19,0	13	-
OTRLF08G02		G 1/4"	14	11	23,2	23,0	16	-

**OTRT-R**

Swivel male tee BSPT thread nickel-plated - metric tube

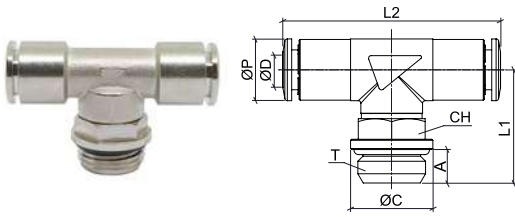


CODE	ØD	T	ØP	A	L1	L2	CH	g
OTRT04R01	4	R 1/8"	10	8	21,0	39,0	13	27,0
OTRT04R02		R 1/4"	10	10	23,5	39,0	14	31,0
OTRT06R01	6	R 1/8"	12	8	21,0	42,0	13	30,0
OTRT06R02		R 1/4"	12	10	23,5	42,0	14	34,0
OTRT08R01	8	R 1/8"	14	8	21,0	46,5	13	34,0
OTRT08R02		R 1/4"	14	10	23,5	46,5	14	37,0
OTRT08R03		R 3/8"	14	11	24,0	46,5	17	44,0
OTRT10R02	10	R 1/4"	16	10	25,5	52,0	16	55,0
OTRT10R03		R 3/8"	16	11	27,0	52,0	17	58,5
OTRT10R04		R 1/2"	16	14	30,0	52,0	22	73,0
OTRT12R02	12	R 1/4"	19	10	28,0	62,0	20	77,0
OTRT12R03		R 3/8"	19	11	28,5	62,0	20	80,0
OTRT12R04		R 1/2"	19	14	31,5	62,0	22	81,0



**OTRT-G**

Swivel male tee BSPP & metric thread nickel-plated - metric tube



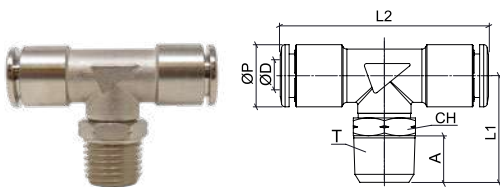
CODE	ØD	T	ØP	ØC	A	L1	L2	CH	g
OTRT04M5	4	M5x0,8	10	7	4	17,0	32,0	8	17,0
OTRT04G01		G 1/8"	10	13	5,5	19,5	39,0	13	29,0
OTRT04G02		G 1/4"	10	16	6,5	22,0	39,0	13	29,0
OTRT06M5	6	M5x0,8	12	7	4	17,0	40,0	8	21,0
OTRT06G01		G 1/8"	12	13	5,5	19,5	42,0	13	29,0
OTRT06G02		G 1/4"	12	16	6,5	22,0	42,0	13	32,0
OTRT08G01	8	G 1/8"	14	13	5,5	19,5	46,5	13	33,0
OTRT08G02		G 1/4"	14	16	6,5	22,0	46,5	13	35,5
OTRT08G03		G 3/8"	14	20	7,5	23,5	46,5	13	39,0
OTRT10G02	10	G 1/4"	16	16	6,5	23,0	52,0	16	52,0
OTRT10G03		G 3/8"	16	20	7,5	26,0	52,0	16	56,0
OTRT10G04		G 1/2"	16	25	9	27,5	52,0	16	64,5
OTRT12G02	12	G 1/4"	19	16	6,5	25,5	62,0	20	75,0
OTRT12G03		G 3/8"	19	20	7,5	26,5	62,0	20	77,0
OTRT12G04		G 1/2"	19	25	9	29,0	62,0	20	82,0

Swivel male tee BSPP thread nickel-plated - inch tube

CODE	ØD	T	ØP	ØC	A	L1	L2	CH	g
OTRT1-4G01	1/4"	G 1/8"	13	13	5,5	19,5	42,5	13	29,0
OTRT1-4G02		G 1/4"	13	16	6,5	22,0	42,5	13	32,0
OTRT38G02	3/8"	G 1/4"	16	16	6,5	23,0	51,5	16	52,0
OTRT38G03		G 3/8"	16	20	7,5	26,0	51,5	16	56,0

**OTRT-N**

Swivel male tee NPT & UNF thread nickel-plated - inch tube

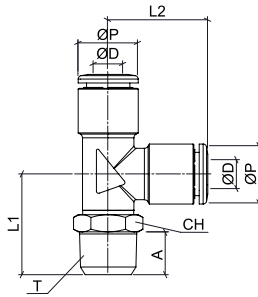


CODE	ØD	T	ØP	A	L1	L2	CH	g
OTRT532UF1032	5/32"	UNF 10-32"	10	4	17,0	32,0	3/8"	17,0
OTRT532N01		N 1/8"	10	8,5	21,5	39,0	9/16"	28,0
OTRT532N02		N 1/4"	10	10,5	24,0	39,0	9/16"	31,0
OTRT1-4N01	1/4"	N 1/8"	13	8,5	21,5	42,5	9/16"	33,0
OTRT1-4N02		N 1/4"	13	10,5	24,0	42,5	9/16"	36,0
OTRT516N01	5/16"	N 1/8"	14	8,5	21,5	47,0	9/16"	34,0
OTRT516N02		N 1/4"	14	10,5	24,0	47,0	9/16"	37,0
OTRT38N02	3/8"	N 1/4"	16	10,5	26,0	51,5	11/16"	58,0
OTRT38N03		N 3/8"	16	11,5	27,5	51,5	11/16"	61,0
OTRT1-2N02	1/2"	N 1/4"	19	10,5	28,5	62,5	7/8"	75,0
OTRT1-2N03		N 3/8"	19	11,5	29,5	62,5	7/8"	78,0



**OTRST-R**

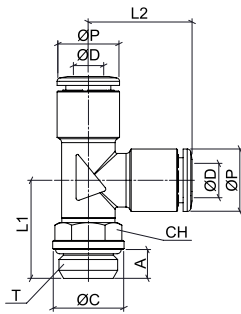
Swivel male lateral tee BSPT thread nickel-plated - metric tube



CODE	ØD	T	ØP	A	L1	L2	CH
OTRST04R01	4	R 1/8"	10	8	21,0	19,5	13
OTRST04R02		R 1/4"	10	10	23,5	19,5	14
OTRST06R01	6	R 1/8"	12	8	21,0	21,0	13
OTRST06R02		R 1/4"	12	10	23,5	21,0	14
OTRST08R01	8	R 1/8"	14	8	21,0	23,0	13
OTRST08R02		R 1/4"	14	10	23,5	23,0	14
OTRST10R02	10	R 1/4"	16	10	25,5	26,0	16
OTRST10R03		R 3/8"	16	11	27,0	26,0	17
OTRST12R03	12	R 3/8"	19	11	37,0	29,0	20
OTRST12R04		R 1/2"	19	14	40,0	29,0	22

**OTRST-G**

Swivel male lateral tee BSPP thread nickel-plated - metric tube

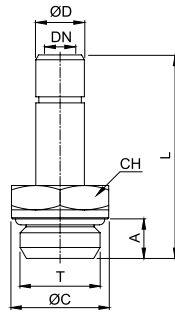


CODE	ØD	T	ØP	ØC	A	L1	L2	CH
OTRST04G01	4	G 1/8"	10	13	5,5	19,5	19,5	13
OTRST04G02		G 1/4"	10	16	6,5	22,0	19,5	13
OTRST06G01	6	G 1/8"	12	13	5,5	19,5	21,0	13
OTRST06G02		G 1/4"	12	16	6,5	22,0	21,0	13
OTRST08G01	8	G 1/8"	14	13	5,5	19,5	23,0	13
OTRST08G02		G 1/4"	14	16	6,5	22,0	23,0	13
OTRST10G02	10	G 1/4"	16	16	6,5	23,0	26,0	16
OTRST10G03		G 3/8"	16	20	7,5	26,0	26,0	16
OTRST12G03	12	G 3/8"	19	20	7,5	35,0	29,0	20
OTRST12G04		G 1/2"	19	25	9	37,0	29,0	20



**OTRA-G**

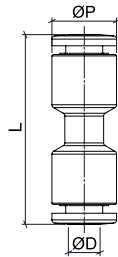
Stem adapter BSPP & metric thread nickel-plated - metric tube



CODE	ØD	T	ØC	A	L	CH	DN	g
OTRA04M5	4	M5x0,8	7	4	24,5	8	2,0	3,0
OTRA04M7		M7x1	10	5,5	27,0	10	2,0	5,0
OTRA04G01		G 1/8"	13	5,5	27,0	13	2,0	10,0
OTRA04G02		G 1/4"	16	6,5	29,5	13	2,0	11,0
OTRA06M5	6	M5x0,8	7	4	25,5	8	2,5	5,0
OTRA06M7		M7x1	10	5,5	27,0	10	4,0	7,0
OTRA06G01		G 1/8"	13	5,5	28,0	13	4,0	9,0
OTRA06G02		G 1/4"	16	6,5	30,5	13	4,0	13,0
OTRA08G01	8	G 1/8"	13	5,5	29,5	13	6,0	10,0
OTRA08G02		G 1/4"	16	6,5	32,0	13	6,0	13,0
OTRA08G03		G 3/8"	20	7,5	33,5	13	6,0	21,0
OTRA10G01	10	G 1/8"	13	5,5	34,0	13	8,0	17,0
OTRA10G02		G 1/4"	16	6,5	36,5	13	8,0	15,0
OTRA10G03		G 3/8"	20	7,5	37,5	16	8,0	26,0
OTRA12G02	12	G 1/4"	16	6,5	37,5	13	8,5	22,0
OTRA12G03		G 3/8"	20	7,5	41,5	16	10,0	22,0
OTRA12G04		G 1/2"	25	9	43,0	20	10,0	35,0

**OTRUC**

Union connector nickel-plated - metric tube



CODE	ØD	ØP	L	g
OTRUC04-532	4	10	29,0	9,0
OTRUC0600	6	12	32,0	12,0
OTRUC08-516	8	14	36,0	16,0
OTRUC1000	10	16	39,0	21,0
OTRUC1200	12	19	44,5	37,0

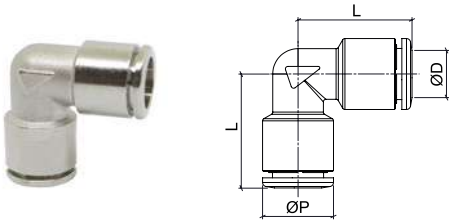
Union connector nickel-plated - inch tube

CODE	ØD	ØP	L	g
OTRUC04-532	5/32"	10	29,0	9,0
OTRUC1-4	1/4"	13	33,0	14,0
OTRUC08-516	5/16"	14	35,5	16,0
OTRUC38	3/8"	16	38,5	21,0
OTRUC1-2	1/2"	19	44,5	37,0



**OTRUL**

## Union elbow nickel-plated - metric tube



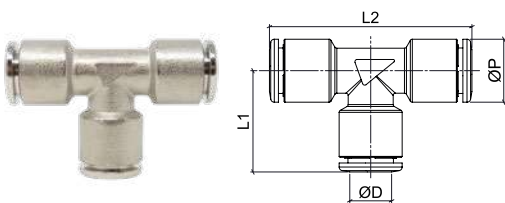
CODE	ØD	ØP	L	g
OTRUL04-532	4	10	18,0	12,0
OTRUL0600	6	12	19,5	14,0
OTRUL08-516	8	14	22,5	20,0
OTRUL1000	10	16	25,5	26,0
OTRUL1200	12	19	29,0	49,0

## Union elbow nickel-plated - inch tube

CODE	ØD	ØP	L	g
OTRUL04-532	5/32"	10	18,0	12,0
OTRUL1-4	1/4"	13	21,0	19,0
OTRUL08-516	5/16"	14	22,5	20,0
OTRUL38	3/8"	16	25,0	28,0
OTRUL1-2	1/2"	19	29,0	49,0

**OTRUT**

## Union tee nickel-plated - metric tube



CODE	ØD	ØP	L1	L2	g
OTRUT04-532	4	10	18,0	36,0	17,0
OTRUT0600	6	12	19,5	39,0	20,0
OTRUT08-516	8	14	22,5	45,5	30,0
OTRUT1000	10	16	25,5	50,5	37,0
OTRUT1200	12	19	29,0	58,5	68,0

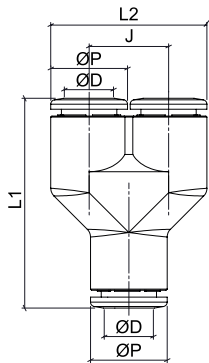
## Union tee nickel-plated - inch tube

CODE	ØD	ØP	L1	L2	g
OTRUT04-532	5/32"	10	18,0	36,0	17,0
OTRUT1-4	1/4"	13	21,0	42,0	27,0
OTRUT08-516	5/16"	14	22,5	45,5	30,0
OTRUT38	3/8"	16	25,0	50,5	38,0
OTRUT1-2	1/2"	19	29,0	58,0	59,0



**OTRY**

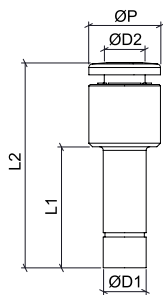
Union Y nickel-plated - metric tube



CODE	ØD	ØP	J	L1	L2	g
OTRY04	4	10	10,5	32,0	20,5	
OTRY06	6	12	12,5	35,5	24,5	
OTRY08	8	14	14,5	38,5	28,5	
OTRY10	10	16	17,0	45,5	33,0	
OTRY12	12	19	20,0	52,5	39,0	

**OTRGJ**

Stem reduction nickel-plated - metric tube



CODE	ØD1	ØD2	ØP	L1	L2	g
OTRGJ0604	6	4	10	18,0	30,0	6,0
OTRGJ0804	8	4	10	19,5	32,0	
OTRGJ0806	8	6	12	19,5	32,5	10,0
OTRGJ1006	10	6	12	24,0	37,0	
OTRGJ1008	10	8	14	24,0	38,0	13,0
OTRGJ1208	12	8	14	25,0	39,0	
OTRGJ1210	12	10	16	25,0	41,0	18,0





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**COMPLETE RANGE** for a wide array of applications

Suitable for **FOOD & BEVERAGE AND COFFEE MACHINES**

**PRODUCTS CAN BE TAILOR-MADE TO SPECIFIC CUSTOMER NEEDS**

M A D E I N I T A L Y





p. 77 / **HFRG-G**



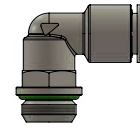
p. 77 / **HFRGC**



p. 77 / **HFRCF-G**



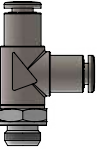
p. 78 / **HFRMM**



p. 78 / **HFRL-G**



p. 78 / **HFR-T-G**



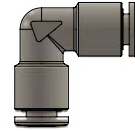
p. 79 / **HFRST-G**



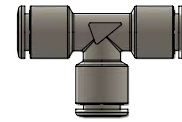
p. 79 / **HFRAG-G**



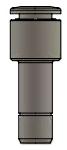
p. 79 / **HFRUC**



p. 80 / **HFRUL**

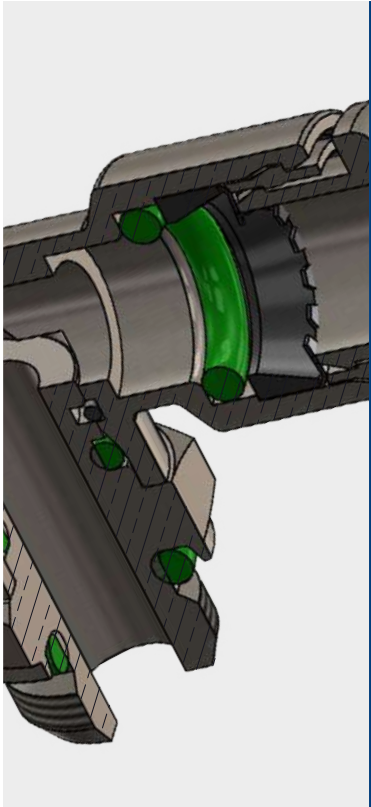


p. 80 / **HFRUT**



p. 80 / **HFRGJ**





-20°C ÷ 150°C



**Working pressure:**  
20 Bar  
**Negative pressure:**  
- 0,95 Bar (- 95 kPa)



Compressed air, vacuum, water and fluids suitable with the construction materials



- Parallel gas BSPP ISO 228 from G1/8" to G1/2"  
- Metric ISO 262 M5 and M7



Polyamide PA, Polyethylene PE, FEP and PTFE

**Body:** TEA+ plated brass  
**Collet:** TEA+ plated brass  
**Collar:** PVDF-UHM FDA compliant  
**Lock claw:** Stainless steel AISI 301  
**Back ring:** PVDF-UHM FDA compliant  
**O-ring:** FKM NSF/ANSI 61 certified and FDA compliant  
**Retaining ring for swivel system:** Stainless steel AISI 302



NSF/ANSI 169



Food contact materials EC 1935/2004



ICIM certified product food contact materials

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863



**HIGHLY CORROSION RESISTANT** in strong acidic or alkaline environments:

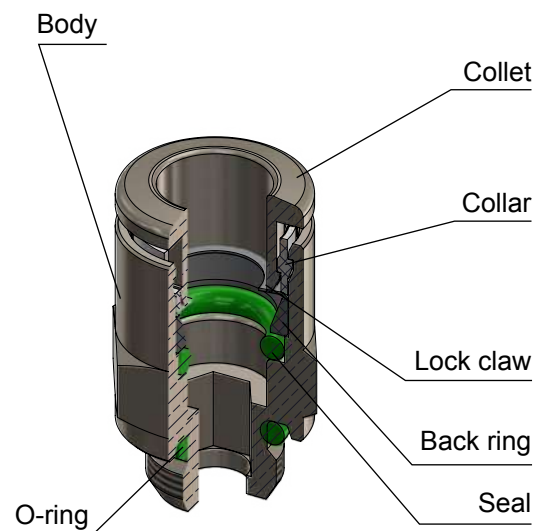
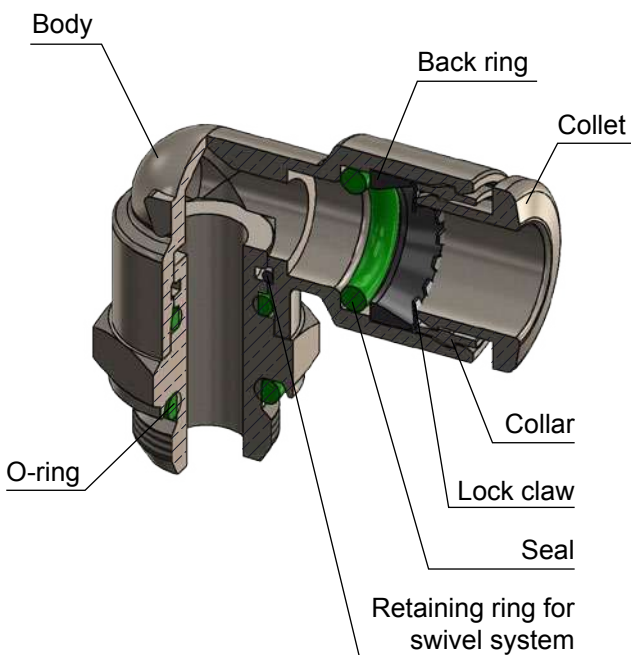
- thicknesses of 2 - 4 µm withstand
- ASS 96h and CASS 48h salt spray tests

**EN 16058** rig test ( 26 weeks)

**NSF 61** section 8- pH5 Commercial hot (82°C) for taps, sanitary fittings, HVAC

**EN 16889** for professional coffee machines and other "food zone" devices.

**CONSTRUCTION DETAILS**

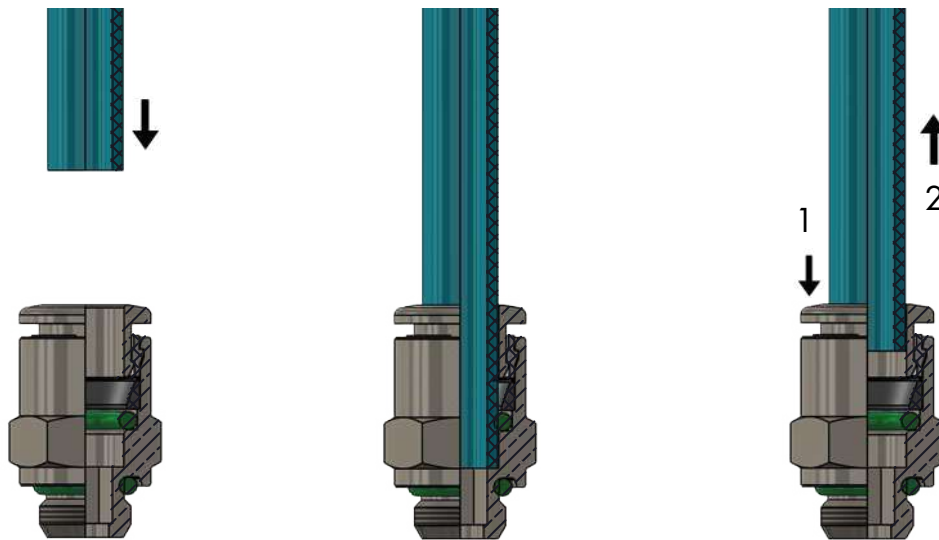


### INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

### DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



#### TOLERANCES - METRIC TUBE

Ø TUBE (mm)	4	6	8	10	12
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15

#### INSERTION DEPTH - METRIC TUBE

Ø TUBE (mm)	4	6	8	10	12
TUBE INSERTION LENGTH (mm)	14	15,5	17,5	19	21

#### TIGHTENING TORQUE

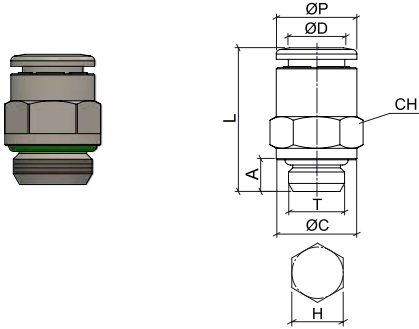
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M7x1	1/8"	1/4"	3/8"	1/2"
Nm	1 ± 20%	3 ± 20%	6 ± 20%	7,5 ± 20%	9 ± 20%	9 ± 20%



## HFRC-G

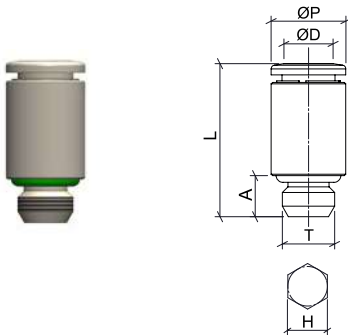
## Male connector BSPP &amp; metric thread



CODE	ØD	T	ØP	ØC	A	L	CH	H
HFRC04M5	4	M5x0,8	10	7	4	19,0	9	2,5
HFRC04G01		G 1/8"	10	14	5,5	18,0	10	3
HFRC04G02		G 1/4"	10	16	6,5	18,0	10	3
HFRC06M5	6	M5x0,8	12	7	4	21,0	11	2,5
HFRC06G01		G 1/8"	12	14	5,5	19,5	12	4
HFRC06G02		G 1/4"	12	16	6,5	19,5	12	4
HFRC08G01	8	G 1/8"	14	14	5,5	24,5	14	5
HFRC08G02		G 1/4"	14	16	6,5	21,5	14	6
HFRC08G03		G 3/8"	14	20	7,5	21,5	14	6
HFRC10G02	10	G 1/4"	16	16	6,5	27,5	16	7
HFRC10G03		G 3/8"	16	20	7,5	25,0	16	8
HFRC12G02	12	G 1/4"	19	16	6,5	30,0	19	7
HFRC12G03		G 3/8"	19	22	7,5	29,5	19	10
HFRC12G04		G 1/2"	19	25	9	28,0	19	10

## HFROC

## Male connector round body metric thread

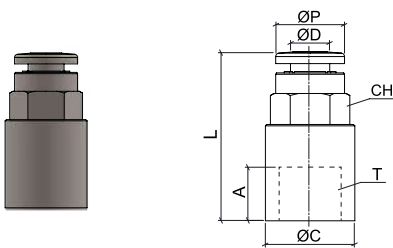


CODE	ØD	T	ØP	A	L	H
HFROC04M7	4	M7x1	10	6	20,5	2,5
* HFROC06M7C	6	M7x1	10	5,5	20,5	4

\* compact version

## HFRCF-G

## Female connector BSPP thread

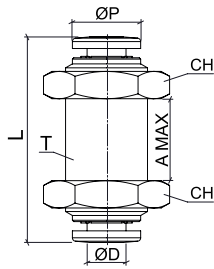
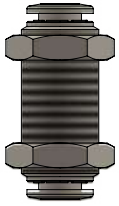


CODE	ØD	T	ØP	ØC	A	L	CH
HFRCF04G01	4	G 1/8"	10	13	7,5	24,5	13
HFRCF04G02		G 1/4"	10	16	11	27,0	10
HFRCF06G01	6	G 1/8"	12	13	7,5	26,0	12
HFRCF06G02		G 1/4"	12	16	11	29,0	12
HFRCF08G01	8	G 1/8"	14	13	7,5	27,0	14
HFRCF08G02		G 1/4"	14	16	11	30,0	14



**HFRMM**

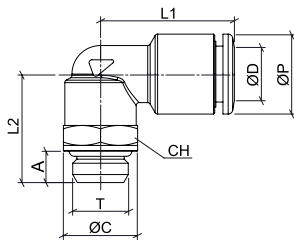
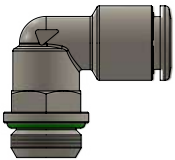
Bulkhead connector



CODE	ØD	T	ØP	L	A MAX	CH
HFRMM04	4	M12x1	10	34,0	15	16
HFRMM06	6	M14x1	12	32,0	12	17
HFRMM08	8	M16x1	14	36,5	16	19
HFRMM10	10	M20x1	16	43,0	19	24
HFRMM12	12	M22x1,5	19	44,0	20	25

**HFRL-G**

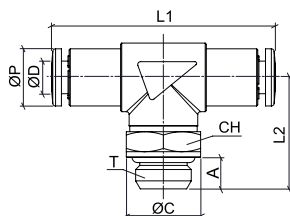
Swivel male elbow BSPP & metric



CODE	ØD	T	ØP	ØC	A	L1	L2	CH
HFRLO4M5	4	M5x0,8	10	7	4	18,0	15,0	8
HFRLO4G01		G 1/8"	10	13	5,5	19,5	19,0	13
HFRLO4G02		G 1/4"	10	16	6,5	19,5	21,5	13
HFRLO6M5	6	M5x0,8	12	7	4	19,5	16,0	8
HFRLO6G01		G 1/8"	12	13	5,5	21,0	19,0	13
HFRLO6G02		G 1/4"	12	16	6,5	21,0	21,5	13
HFRLO8G01	8	G 1/8"	14	13	5,5	23,0	19,0	13
HFRLO8G02		G 1/4"	14	16	6,5	23,0	21,5	13
HFRLO8G03		G 3/8"	14	20	7,5	23,0	23,0	13
HFRLO10G02	10	G 1/4"	16	16	6,5	26,0	23,0	16
HFRLO10G03		G 3/8"	16	20	7,5	26,0	26,0	16
HFRLO12G02	12	G 1/4"	19	16	6,5	31,0	25,5	20
HFRLO12G03		G 3/8"	19	20	7,5	31,0	26,5	20
HFRLO12G04		G 1/2"	19	25	9	31,0	29,0	20

**HFRT-G**

Swivel male tee BSPP thread

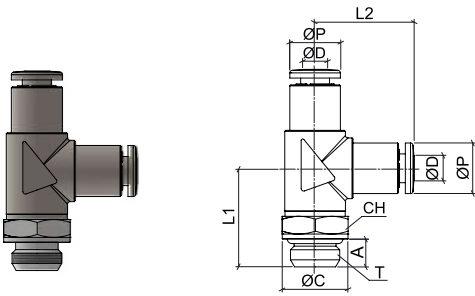


CODE	ØD	T	ØP	A	L1	L2	CH
HFRT04G01	4	G 1/8"	10	5,5	39,0	19,5	13
HFRT06G01	6	G 1/8"	12	5,5	42,0	19,5	13
HFRT06G02		G 1/4"	12	6,5	42,0	22,0	13
HFRT08G01	8	G 1/8"	14	5,5	46,5	19,5	13
HFRT08G02		G 1/4"	14	6,5	46,5	22,0	13



**HFRST-G**

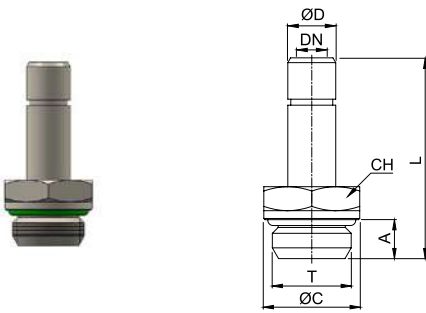
Swivel male lateral tee BSPP thread



CODE	ØD	T	ØP	ØC	A	L1	L2	CH
HFRST04G01	4	G 1/8"	10	13	5,5	19,5	19,5	13

**HFRA-G**

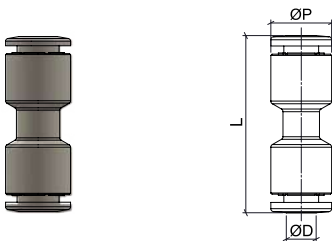
Stem adapter BSPP thread



CODE	ØD	T	ØC	A	L	DN	CH
HFRA04G01	4	G 1/8"	13	5,5	28,0	2,0	13
HFRA06G01	6	G 1/8"	13	5,5	29,0	4,0	13
HFRA06G02		G 1/4"	16	6,5	30,5	4,0	13
HFRA08G01	8	G 1/8"	13	5,5	30,0	6,0	13
HFRA08G02		G 1/4"	16	6,5	32,0	6,0	13
HFRA10G01	10	G 1/8"	13	5,5	35,0	6,0	13
HFRA10G02		G 1/4"	16	6,5	36,5	8,0	13
HFRA12G02	12	G 1/4"	16	6,5	37,5	8,0	13

**HFRUC**

Union connector

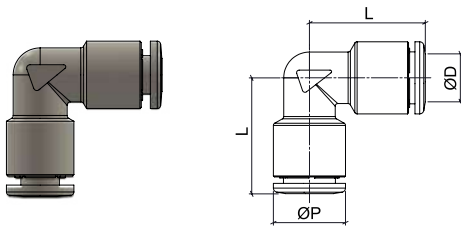


CODE	ØD	ØP	L
HFRUC04	4	10	29,0
HFRUC06	6	12	32,0
HFRUC08	8	14	35,5
HFRUC10	10	16	39,5
HFRUC12	12	19	44,0



**HFRUL**

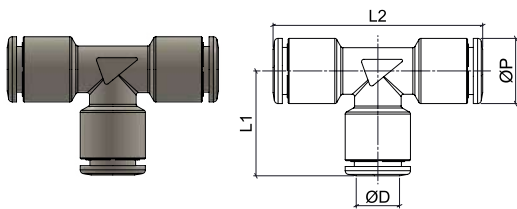
Union elbow



CODE	ØD	ØP	L
HFRUL04	4	10	18,0
HFRUL06	6	12	19,5
HFRUL08	8	14	22,5
HFRUL10	10	16	25,5
HFRUL12	12	19	29,0

**HFRUT**

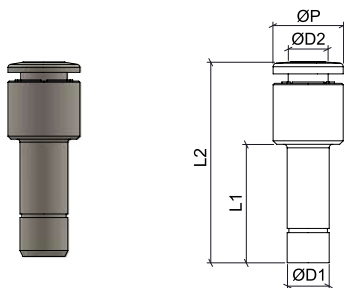
Union tee



CODE	ØD	ØP	L1	L2
HFRUT04	4	10	18,0	36,0
HFRUT06	6	12	19,5	39,0
HFRUT08	8	14	22,5	45,0
HFRUT10	10	16	25,5	51,0
HFRUT12	12	19	29,0	58,0

**HFRGJ**

Stem reduction



CODE	ØD1	ØD2	ØP	L1	L2
HFRGJ0604	6	4	10	17,0	28,5
HFRGJ0806	8	6	12	19,5	34,5
HFRGJ1008	10	8	14	24,0	37,5
HFRGJ1210	12	10	16	25,0	40,0





# PUSH-IN FITTINGS Fluidfit



PLUS

**SUITABLE FOR CONTACT WITH POTABLE WATER AND FOOD** for osmosis, vending and water treatment plants in food sectors

**DESIGNED TO ENSURE A COMPLETE PASSAGE** and to keep the characteristics of the fluids unchanged

**DYNAMIC GRIPPING SYSTEM** to be used with food fluids

**EPDM SEALING** in order to guarantee a long duration over time

**GREAT CHEMICAL AND MECHANICAL RESISTANCE** even at high temperatures

**CAN BE USED WITH AIR EVEN AT VERY LOW TEMPERATURES**

**SAFETY CLIP TO AVOID ACCIDENTAL DISCONNECTIONS** guaranteeing perfect functionality even in case of extreme applications

**A FULL RANGE OF DIAMETERS AND SHAPES** allows them to be used in various industrial sectors





p. 87 / **HPC-R**



p. 87 / **HPC-G**



p. 88 / **HCF-G**



p. 88 / **HPL-R**



p. 88 / **HMM**



p. 89 / **HGJ**



p. 89 / **HCJ-R**



p. 89 / **HCJ-G**



p. 90 / **HLJ**



p. 90 / **HSJ**



p. 90 / **HCBB**



p. 91 / **HUC**



p. 91 / **HUL**



p. 92 / **HUT**



p. 92 / **HUY**



p. 92 / **HCJB**



p. 92 / **HLJB**



p. 93 / **HPP**



p. 93 / **HPF**



p. 93 / **HZA**



p. 94 / **HRPL-R**



p. 94 / **HRPL-G**



p. 94 / **HRPT-R**



p. 95 / **HRPT-G**



p. 95 / **HRST-R**



p. 95 / **HRST-G**



p. 96 / **HRWT-R**



p. 96 / **HRWT-G**

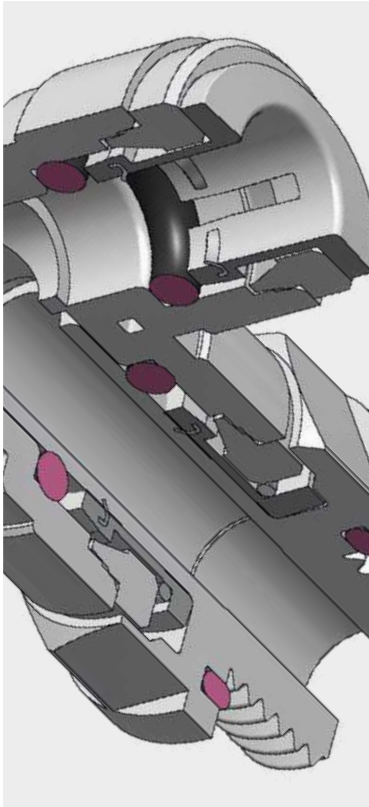


p. 97 / **HUFF**



p. 97 / **HCP**





Dry air: -20°C ÷ 98°C  
Air & Fluids: 1°C ÷ 98°C  
(see the table)



Working pressure:  
20 Bar  
Negative pressure:  
- 0,95 Bar ( - 95 kPa)  
Data depend on tube and temperature



Water, beverages, vacuum,  
compressed air, gases  
& liquids suitable with  
construction materials



- Taper gas BSPT ISO 7  
from R1/8" to R1/2"  
- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"



Polyethylene PE, polyamide PA, polyurethane PU, PTFE, FEP  
Tubes made of light metals: Brass, copper and mild steel  
Tubes made of hard materials: See table for use of tubes made of hard materials



Body: POM  
Collet: POM  
Lock claw: Stainless steel AISI 301  
Seal: EPDM suitable for food contact  
O-ring: EPDM suitable for food contact



Food contact materials  
EC 1935/2004



D.M. 174/2004



ICIM certified product  
food contact materials



ICIM certified product  
water contact materials



ACS



NSF51 / NSF61  
NSF certificate on behalf of  
CDC PNEUMATICS CORP.



Products in compliance with  
EC Regulation 1907/2006

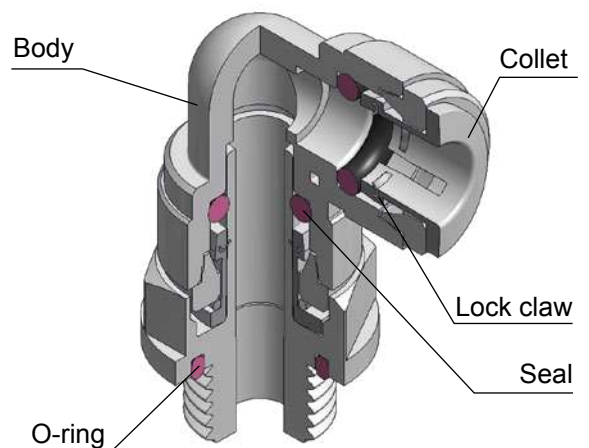


Products in compliance with  
the directive EU 2015/863

**WORKING PRESSURE AND TEMPERATURE**

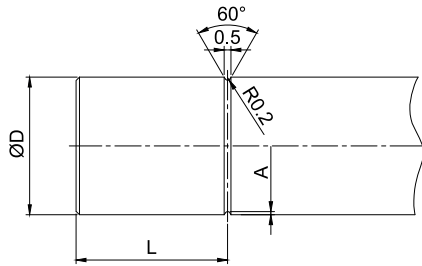
Ø (mm)	-20°C	1°C	25°C	70°C	98°C
4	0-8 Bar only with dry air	20 Bar	20 Bar	16 Bar	10 Bar
6		20 Bar	20 Bar	16 Bar	10 Bar
8		20 Bar	20 Bar	16 Bar	10 Bar
10		16 Bar	16 Bar	14 Bar	10 Bar
12		14 Bar	14 Bar	8 Bar	6 Bar

**CONSTRUCTION DETAILS**



**PIPE GROOVE - HARD MATERIALS TUBE**

When using metallic tubes, please deburr the tubes ends to avoid potential cutting or other damages to the O-ring.



ØD (mm)	L	A
4	7,6	0,23
6	8,0	0,23
8	9,0	0,23
10	11,0	0,23
12	12,7	0,23

**TOLERANCES - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TOLERANCE (mm)	± 0,08	± 0,08	± 0,08	± 0,08	± 0,10

**INSERTION DEPTH - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TUBE INSERTION LENGTH (mm)	14,7	16,1	17,5	20,1	24,7

**TIGHTENING TORQUE  
TAPER GAS BSPT ISO 7**

THREAD	1/8"	1/4"	1/8"	1/2"
Nm	1,5	1,5	3,0	3,0

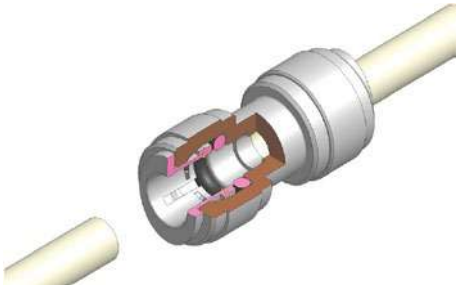
**TIGHTENING TORQUE  
PARALLEL GAS BSPP ISO 228**

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	1,5	1,5	3,0	3,0

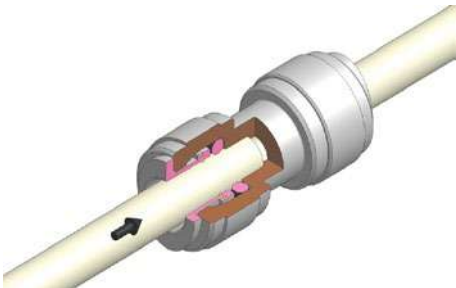


**INSTRUCTIONS FOR CONNECTING AND DISCONNECTING THE TUBE FROM THE FITTING**

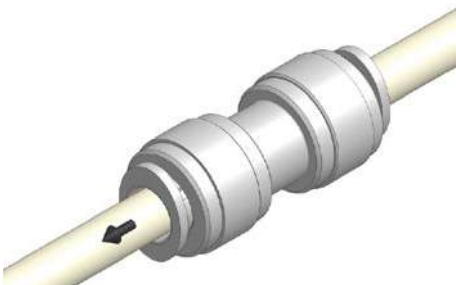
We recommend to read and follow all the instructions, precautions and warnings contained in this catalogue before using the products in pressurized systems. Failure to follow all instructions, precautions and warnings may result in bodily harm or property damages. CDC Fluidtech Europe disclaims any responsibility in case of damages for wrong use of the products.

**CONNECTION OF THE TUBE TO THE FITTING**

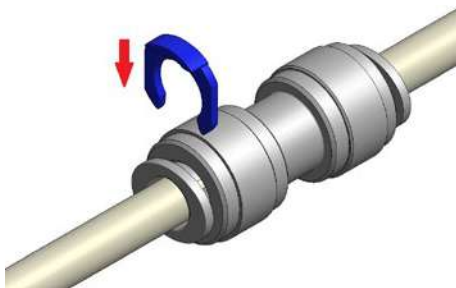
Make sure that the tube size and the push-in system size of the fittings are the same.  
Cut square (90° angle) the part of the tube that has to be inserted into the fittings using the proper tube cutter.  
Make sure that the tube used is clean and does not present any scratch, crack, cut or deformity.  
Before inserting the tube, please remove any possible obstruction inside the fitting.



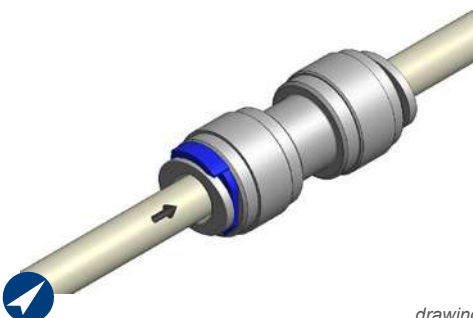
Make sure that the tube is correctly and fully inserted.  
Inserting the tube into the fitting requires a moderate strain. The tube and the fitting should not be scratched or damaged during the insertion, otherwise there may be leaks or further wrong functions.  
Please connect the tube by hands, without using any kind of tool, whether dedicated or not.



To make sure that the fitting is properly connected to the tube, please pull it once without releasing the collet.



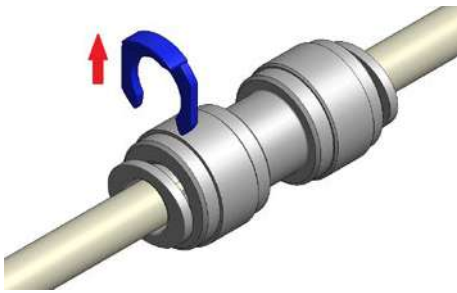
After pulling, insert a locking clip of the right dimension between the fitting body and the collet.



Push once more the tube into the fitting for a complete insertion.  
The use of our locking clips avoids accidental disconnections of the tube and eliminates any play between the tube and the fitting. All the performance limits indicated in this catalogue are related to the systems assembled with locking clips installed.

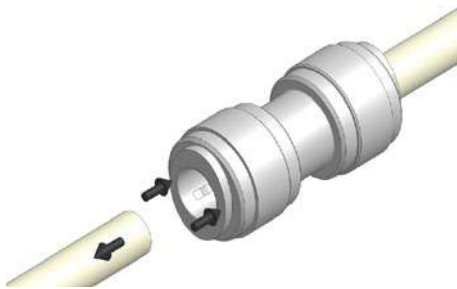
## DISCONNECTION OF THE TUBE TO THE FITTING

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Make sure that the pressure has been completely eliminated from the system before disassembling the tube.  
In order to disconnect the tube, remove the locking clip first.

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Push the collet in the direction of the body of the fitting and pull the tube keeping the collet pushed in order to disconnect the tube from the fitting.

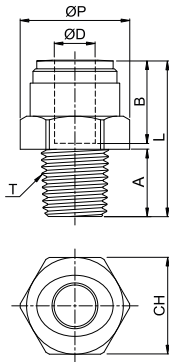
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Fittings and tubes can be reused providing that they are not ruined and correctly working. It is possible to reuse them only in case of maintenance and only using the same fluid used before. The reuse refers to the push-in system only, being not guaranteed for the threaded part of the fittings. In case of reuse of a tube, the part previously inserted into the fitting has to be cut and the whole tube has to be verified.



**HPC-R**

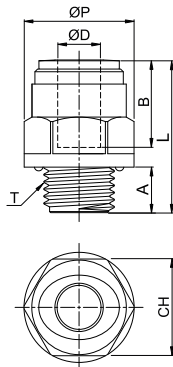
## Male connector BSPT thread



CODE	ØD	T	ØP	A	B	L	CH	g
HPC04R01W	4	R 1/8"	18,5	9,1	14,7	26,0	17	4,1
HPC06R01W	6	R 1/8"	18,5	9,1	16,1	26,2	17	3,9
HPC06R02W		R 1/4"	18,5	13,1	16,1	26,7	17	4,2
HPC06R03W		R 3/8"	21,0	13,5	16,1	26,6	19	5,9
HPC08R01W	8	R 1/8"	21,0	9,1	17,5	28,1	19	5,2
HPC08R02W		R 1/4"	21,0	13,1	17,5	30,6	19	5,8
HPC08R03W		R 3/8"	21,0	13,5	17,5	27,0	19	5,7
HPC10R03W	10	R 3/8"	23,2	13,5	20,1	28,8	21	6,7
HPC10R04W		R 1/2"	24,4	16,3	20,1	32,1	22	9,6
HPC12R03W	12	R 3/8"	26,5	13,5	24,7	32,2	24	8,9
HPC12R04W		R 1/2"	26,5	16,3	24,7	34,3	24	11,0

**HPC-G**

## Male connector BSPP thread

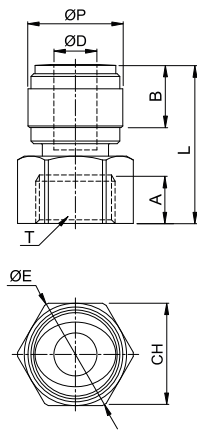


CODE	ØD	T	ØP	A	B	L	CH	g
HPC04G01W	4	G 1/8"	16,6	6,0	14,7	21,9	15	3,3
HPC04G02W		G 1/4"	20,5	8,5	14,7	23,9	18	4,9
HPC06G01W	6	G 1/8"	16,6	6,0	16,1	24,1	15	3,3
HPC06G02W		G 1/4"	20,5	8,5	16,1	24,1	18	4,8
HPC08G01W	8	G 1/8"	18,5	6,0	17,5	27,0	17	5,2
HPC08G02W		G 1/4"	20,5	8,5	17,5	28,5	18	6,1
HPC08G03W		G 3/8"	24,0	9,0	17,5	26,5	21	7,0
HPC08G04W		G 1/2"	28,5	12,5	17,5	29,5	26	11,9
HPC10G02W	10	G 1/4"	21,1	8,5	20,1	30,8	19	7,2
HPC10G03W		G 3/8"	24,2	9,0	20,1	26,3	21	7,0
HPC10G04W		G 1/2"	28,5	12,5	20,1	29,8	26	11,3
HPC12G03W	12	G 3/8"	27,0	9,0	24,7	34,2	24	11,6
HPC12G04W		G 1/2"	28,5	12,5	24,7	32,7	26	12,4



**HCF-G**

Female adapter BSPP thread with internal flat seal

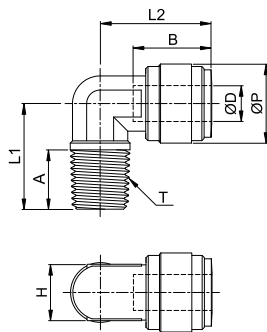


CODE	ØD	T	ØP	A	B	ØE	L	CH	g
HCF04G01W	4	G 1/8"	17,6	6,0	14,7	19,2	26,9	17	6,0
HCF06G01W	6	G 1/8"	17,6	6,0	16,1	19,2	27,1	17	6,1
HCF06G02W		G 1/4"	17,6	8,5	16,1	21,5	29,1	19	7,0
HCF06G03W		G 3/8"	17,6	9,0	16,1	27,3	30,6	24	9,9
HCF08G01W	8	G 1/8"	17,6	6,0	17,5	19,2	27,5	17	6,0
HCF08G02W		G 1/4"	17,6	8,5	17,5	21,5	29,5	19	6,7
HCF08G03W		G 3/8"	17,6	9,0	17,5	27,3	31,0	24	9,7
HCF08G04W		G 1/2"	20,0	12,5	17,5	30,0	38,0	27	13,8
* HCF08G06W		G 3/4"	20,0	10,0	17,5	41,6	36,6	36,7	39,2
HCF10G02W	10	G 1/4"	23,0	8,5	20,1	21,5	34,5	19	10,8
HCF10G03W		G 3/8"	23,0	9,0	20,1	27,3	37,0	24	13,7
HCF10G04W		G 1/2"	20,0	12,5	20,1	30,0	38,3	27	13,3
* HCF10G06W		G 3/4"	20,0	10,0	20,1	41,6	36,9	36,7	38,6
HCF12G02W	12	G 1/4"	23,0	9,0	24,7	27,3	37,7	24	13,0
HCF12G03W		G 3/8"	23,0	9,0	24,7	27,3	37,7	24	13,0
HCF12G04W		G 1/2"	23,0	12,5	24,7	30,0	41,7	27	15,4

\* HCF08G06W & HCF10G06W: brass thread

**HPL-R**

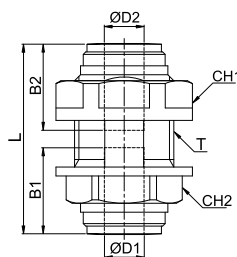
Male elbow BSPT thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	g
HPL04R01W	4	R 1/8"	15,0	9,1	14,7	25,6	25,2	10	4,2
HPL04R02W		R 1/4"	15,0	13,1	14,7	30,6	26,8	10	5,6
HPL06R01W	6	R 1/8"	15,0	9,1	16,1	25,6	25,4	10	4,1
HPL06R02W		R 1/4"	15,0	13,1	16,1	30,6	27,0	10	5,1
HPL06R03W		R 3/8"	17,6	13,5	16,1	32,6	33,1	13	8,4
HPL08R02W	8	R 1/4"	17,6	13,1	17,5	32,2	31,5	13	7,0
HPL08R03W		R 3/8"	17,6	13,5	17,5	32,6	33,5	13	8,0
HPL10R02W	10	R 1/4"	23,6	13,1	20,1	38,3	37,5	17	14,1
HPL10R03W		R 3/8"	20,0	13,5	20,1	35,7	33,9	14	9,2
HPL12R02W	12	R 1/4"	23,6	13,1	24,7	38,3	38,2	17	13,1
HPL12R03W		R 3/8"	23,0	13,5	24,7	38,3	38,4	17,0	13,2
HPL12R04W		R 1/2"	23,0	16,3	24,7	41,4	40,7	17,7	15,6

**HMM**

Bulkhead connector with seal



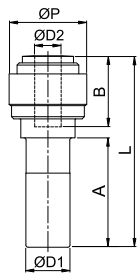
CODE	ØD1	ØD2	T	B1	B2	L	CH1	CH2 (FIXED)	g
HMM0404W	4	4	M15x1,5P	14,7	14,7	32,4	17	18	6,9
HMM0606W	6	6	M17x1,5P	16,1	16,1	35,7	19	21	9,6
HMM0808W	8	8	M20x1,75P	17,5	17,5	38,5	21	25,5	14,0
HMM1010W	10	10	M24x1,75P	20,1	20,1	42,2	24	28,5	19,5
HMM1212W	12	12	M27x2,0P	24,7	24,7	51,4	27	31	28,2
REDUCED BULKHEAD CONNECTOR WITH SEAL									
HMM0604W	6	4	M17x1,5P	16,1	14,7	35,5	19	21	9,8
HMM0806W	8	6	M20x1,75P	17,5	16,1	38,1	21	25,5	14,3





**HGJ**

Stem reduction



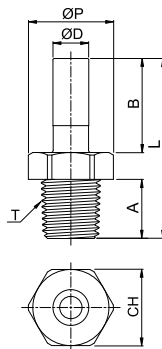
CODE	ØD1	ØD2	ØP	A	B	L	g
HGJ0604W	6	4	13,2	21,0	14,7	36,7	2,4
HGJ0804W	8	4	15,5	22,5	14,7	40,4	3,7
HGJ0806W	8	6	15,5	22,5	16,1	40,6	3,5
HGJ1006W	10	6	17,6	24,8	16,1	43,4	5,2
HGJ1008W	10	8	17,6	24,8	17,5	43,8	5,1
HGJ1208W	12	8	20,0	29,5	17,5	51,3	7,3
HGJ1210W	12	10	20,0	29,5	20,1	51,6	6,9

STEM ENLARGER

HGJ0405W	4	5	13,8	18,0	15,0	35,0	2,4
HGJ0810W	8	10	20,0	22,5	20,1	44,9	5,4

**HCJ-R**

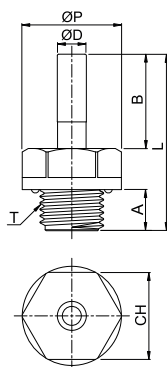
Stem adapter BSPT thread



CODE	ØD	T	ØP	A	B	L	CH	g
HCJ04R01W	4	R 1/8"	14,4	9,1	18,0	33,1	13	1,8
HCJ04R02W		R 1/4"	18,5	13,1	18,0	37,1	17	3,5
HCJ06R01W	6	R 1/8"	14,4	9,1	19,5	34,6	13	2,0
HCJ06R02W		R 1/4"	18,5	13,1	19,5	38,6	17	3,7
HCJ08R01W	8	R 1/8"	14,4	9,1	21,0	36,1	13	2,2
HCJ08R02W		R 1/4"	18,5	13,1	21,0	40,1	17	3,8
HCJ08R03W		R 3/8"	23,0	13,5	21,0	40,5	21	5,3
HCJ10R02W	10	R 1/4"	18,5	13,1	24,0	43,1	17	4,5
HCJ10R03W		R 3/8"	23,0	13,5	24,0	44,0	21	6,1
HCJ10R04W		R 1/2"	26,5	16,5	24,0	47,0	24	9,7
HCJ12R03W	12	R 3/8"	23,0	13,5	28,0	48,0	21	6,8
HCJ12R04W		R 1/2"	26,5	16,5	28,0	51,0	24	10,2

**HCJ-G**

Stem adapter BSPP thread

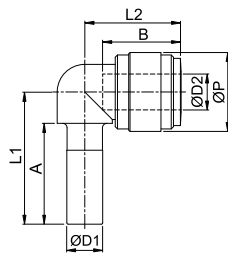


CODE	ØD	T	ØP	A	B	L	CH	g
HCJ04G01W	4	G 1/8"	16,6	6,0	18,0	32,5	15	2,7
HCJ04G02W		G 1/4"	20,5	8,5	18,0	35,0	18	4,2
HCJ06G01W	6	G 1/8"	16,6	6,0	19,5	34,0	15	2,8
HCJ06G02W		G 1/4"	20,5	8,5	19,5	36,5	18	4,3
HCJ08G01W	8	G 1/8"	16,6	6,0	21,0	35,5	15	3,0
HCJ08G02W		G 1/4"	20,5	8,5	21,0	38,0	18	4,6
HCJ08G03W		G 3/8"	24,2	9,0	21,0	38,5	22	6,2
HCJ10G02W	10	G 1/4"	20,5	8,5	24,0	41,0	18	5,2
HCJ10G03W		G 3/8"	24,2	9,0	24,0	41,5	22	6,8
HCJ10G04W		G 1/2"	28,5	12,5	24,0	45,0	26	10,7
HCJ12G03W	12	G 3/8"	24,2	9,0	28,0	45,5	22	7,3
HCJ12G04W		G 1/2"	28,5	12,5	28,0	49,0	26	11,2



## HLJ

### Union elbow tube with stem



CODE	ØD1	ØD2	ØP	A	B	L1	L2	g
HLJ0404W	4	4	13,2	18,0	14,7	30,1	21,9	2,5
HLJ0606W	6	6	15,5	21,0	16,1	34,8	25,1	3,7
HLJ0808W	8	8	17,6	22,5	17,5	38,3	27,7	5,3
HLJ1010W	10	10	20,0	24,8	20,1	43,2	31,3	7,4
HLJ1212W	12	12	23,6	29,5	24,7	51,2	39,0	12,6

#### REDUCTION UNION ELBOW TUBE WITH STEM

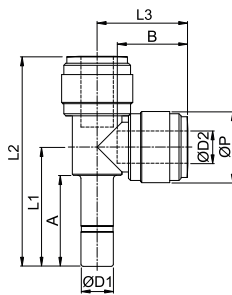
HLJ1006W	10	6	20,0	24,8	16,1	43,2	30,6	7,8
HLJ1008W	10	8	20,0	24,8	17,5	43,2	31,0	8,2

#### ENLARGER UNION ELBOW TUBE WITH STEM

HLJ0608W	6	8	17,6	21,0	17,5	36,8	26,0	4,7
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## HSJ

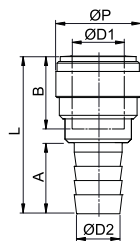
### Male lateral tee with stem



CODE	ØD1	ØD2	ØP	A	B	L1	L2	L3	g
HSJ0404W	4	4	13,2	18,0	14,7	23,5	41,2	17,7	4,5
HSJ0606W	6	6	15,0	21,0	16,1	27,0	47,1	20,1	5,9
HSJ0808W	8	8	17,6	22,5	17,5	29,5	52,0	22,5	9,1
HSJ1010W	10	10	20,0	24,8	20,1	33,2	59,3	26,1	12,5
HSJ1212W	12	12	23,0	29,4	24,7	39,4	71,1	31,7	19,6

## HCBB

### Barb connector

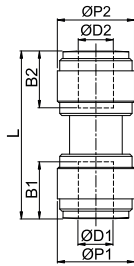


CODE	ØD1	ØD2	BARB	ØP	A	B	L	g
HCBB1210W	12	10	10,0	23,0	20,0	24,7	46,9	8,5



**HUC**

## Union connector



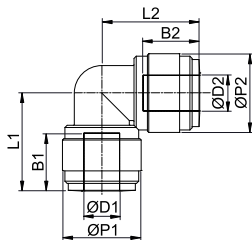
CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L	g
HUC0404W	4	4	13,2	13,2	14,7	14,7	31,8	3,8
HUC0606W	6	6	15,0	15,0	16,1	16,1	35,2	4,7
HUC0808W	8	8	17,6	17,6	17,5	17,5	38,2	6,9
HUC1010W	10	10	20,0	20,0	20,1	20,1	42,7	9,2
HUC1212W	12	12	23,0	23,0	24,7	24,7	52,4	14,4

## REDUCED UNION CONNECTOR

HUC0604W	6	4	15,0	15,0	16,1	14,7	35,0	5,0
HUC0605W	6	5	15,0	15,0	16,1	14,9	35,1	4,9
HUC0804W	8	4	17,6	17,6	17,5	14,7	36,6	6,5
HUC0806W	8	6	17,6	17,6	17,5	16,1	37,8	7,1
HUC1006W	10	6	20,0	15,5	20,1	16,1	42,0	9,8
HUC1008W	10	8	20,0	20,0	20,1	17,5	42,4	9,6
HUC1208W	12	8	23,6	17,6	24,7	17,5	44,4	11,5
HUC1210W	12	10	23,0	23,0	24,7	20,1	51,7	15,0

**HUL**

## Union elbow



CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L1	L2	g
HUL0404W	4	4	13,2	13,2	14,7	14,7	24,5	24,5	3,9
HUL0606W	6	6	15,0	15,0	16,1	16,1	27,6	27,6	5,1
HUL0808W	8	8	17,6	17,6	17,5	17,5	30,7	30,7	7,6
HUL1010W	10	10	20,0	20,0	20,1	20,1	35,8	35,8	10,2
HUL1212W	12	12	23,0	23,0	24,7	24,7	43,2	43,2	16,4

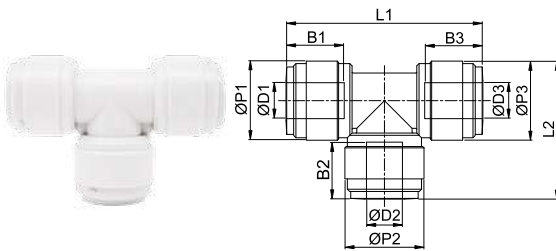
## REDUCED UNION ELBOW

HUL0804W	8	4	17,6	13,2	17,5	14,7	28,3	29,7	5,9
HUL0806W	8	6	17,6	17,6	17,5	16,1	30,7	30,3	7,7
HUL1006W	10	6	23,0	17,6	20,1	16,1	37,8	36,1	12,6
HUL1008W	10	8	20,0	20,0	20,1	17,5	35,8	35,5	10,2
HUL1206W	12	6	23,0	17,6	24,7	16,1	38,5	36,1	12,0
HUL1208W	12	8	23,0	17,6	24,7	17,5	38,5	36,5	11,9
HUL1210W	12	10	23,0	23,0	24,7	20,1	43,2	42,5	17,3



**HUT**

Union tee



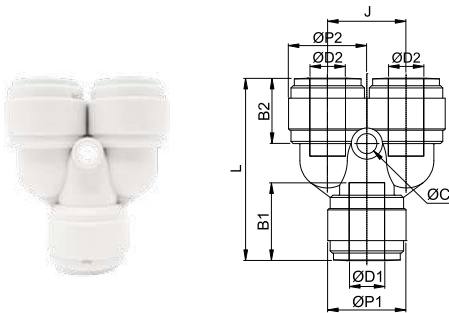
CODE	ØD1	ØD2	ØD3	ØP1	ØP2	ØP3	B1	B2	B3	L1	L2	g
HUT0404W	4	4	4	13,2	13,2	13,2	14,7	14,7	14,7	24,5	35,8	5,8
HUT0606W	6	6	6	15,0	15,0	15,0	16,1	16,1	16,1	27,6	40,2	7,3
HUT0808W	8	8	8	17,6	17,6	17,6	17,5	17,5	17,5	30,7	43,8	10,6
HUT1010W	10	10	10	20,0	20,0	20,0	20,1	20,1	20,1	35,8	51,6	14,6
HUT1212W	12	12	12	23,0	23,0	23,0	24,7	24,7	24,7	43,2	63,4	23,2

REDUCED UNION TEE

HUT100608W	10	6	8	20,0	15,0	20,0	20,1	16,1	17,5	32,1	48,6	15,6
HUT100610W	10	6	10	20,0	15,0	20,0	20,1	16,1	20,1	32,1	48,7	12,0
HUT121012W	12	10	12	23,0	23,0	23,0	24,7	20,1	24,7	42,5	63,4	24,2

**HUY**

Union Y



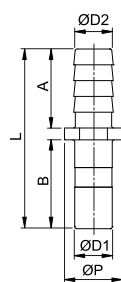
CODE	ØD1	ØD2	ØP1	ØP2	ØC	B1	B2	J	L	g
HUY0404W	4	4	13,8	13,8	3,3	14,7	14,7	13,5	33,7	6,7
HUY0606W	6	6	15,5	15,5	3,3	16,1	16,1	15,5	38,8	9,2
HUY0808W	8	8	17,6	17,6	4,5	17,5	17,5	17,6	41,0	11,6
HUY1010W	10	10	20,0	20,0	4,5	20,1	20,1	20,0	46,2	16,0
HUY1212W	12	12	23,0	23,0	4,5	24,7	24,7	23,0	56,4	26,3

REDUCED UNION Y

HUY1008W	10	8	20,0	20,0	4,5	20,1	17,5	20,0	45,9	16,8
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**HCJB**

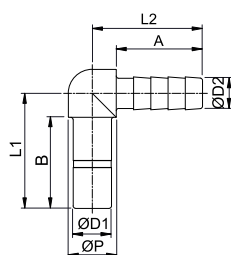
Tube barb connector



CODE	ØD1	ØD2	BARB	ØP	A	B	L	g
HCJB0604W	6	4	4,5	11,4	18,0	17,2	38,2	1,0
HCJB0606W	6	6	6,5	11,4	18,0	17,2	38,2	1,1
HCJB0806W	8	6	6,5	12,2	18,0	19,0	40,0	1,7
HCJB1006W	10	6	6,5	14,7	18,0	22,5	43,5	2,3
HCJB1008W	10	8	8,6	14,7	18,0	22,5	43,5	2,7
HCJB1010W	10	10	10,6	14,7	20,0	22,5	45,5	3,0
HCJB1210W	12	10	10,6	18,5	20,0	27,5	50,5	4,3

**HLJB**

Elbow tube barb connector

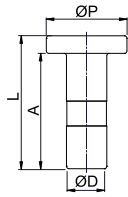


CODE	ØD1	ØD2	BARB	ØP	A	B	L1	L2	g
HLJB1006W	10	6	6,5	12,0	18,0	22,5	28,5	24,0	3,0
HLJB1008W	10	8	8,6	12,0	18,0	22,5	28,5	24,0	3,4



**HPP**

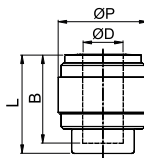
## Male plug



CODE	ØD	ØP	A	L	g
HPP04W	4	13	19,0	22,5	0,8
HPP06W	6	13	21,0	24,5	1,1
HPP08W	8	16	23,0	26,5	1,8
HPP10W	10	18	26,0	30,0	2,7
HPP12W	12	21	30,0	34,0	4,0

**HPF**

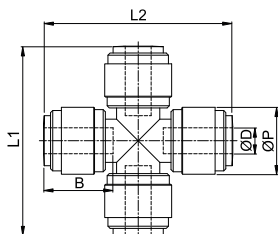
## Female plug



CODE	ØD	ØP	B	L	g
HPF06W	6	15,5	16,1	18,9	2,8
HPF08W	8	17,6	17,5	19,5	3,6
HPF10W	10	20,0	20,1	22,1	4,7
HPF12W	12	23,0	24,7	26,7	7,3

**HZA**

## Cross junction

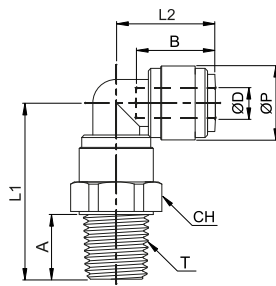


CODE	ØD	ØP	B	L1	L2	g
HZA0606W	6	15,5	16,1	43,8	43,8	9,7
HZA0808W	8	17,6	17,5	47,3	47,3	15,0



**HRPL-R**

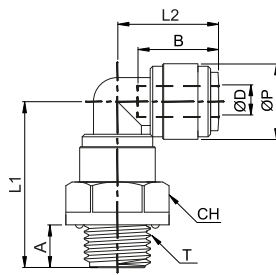
Swivel male elbow BSPT thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	g
HRPL04R01W	4	R 1/8"	13,2	9,1	14,7	29,7	17,9	15	5,9
HRPL04R02W		R 1/4"	13,2	13,1	14,7	33,7	17,9	17	7,3
HRPL06R01W	6	R 1/8"	15,0	9,1	16,1	31,7	20,1	17	7,2
HRPL06R02W		R 1/4"	15,0	13,1	16,1	35,7	20,1	17	8,0
HRPL08R01W	8	R 1/8"	17,6	9,1	17,5	33,4	21,9	19	9,9
HRPL08R02W		R 1/4"	17,6	13,1	17,5	37,4	21,9	19	10,7
HRPL08R03W		R 3/8"	17,6	13,5	17,5	37,8	21,9	19	11,4
HRPL10R02W	10	R 1/4"	20,0	13,1	20,1	41,4	25,8	21	15,1
HRPL10R03W		R 3/8"	20,0	13,5	20,1	41,8	25,8	21	15,2
HRPL10R04W		R 1/2"	20,0	16,5	20,1	44,8	25,8	24	19,5
HRPL12R03W	12	R 3/8"	23,0	13,5	24,7	48,2	31,7	24	23,4
HRPL12R04W		R 1/2"	23,0	16,5	24,7	51,2	31,7	24	25,9

**HRPL-G**

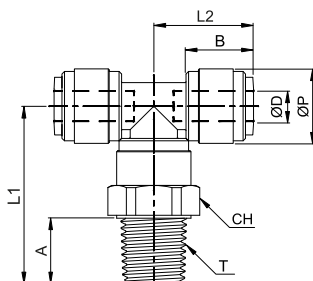
Swivel male elbow BSPP thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	g
HRPL04G01W	4	G 1/8"	13,2	6,0	14,7	28,5	17,9	15,0	6,0
HRPL04G02W		G 1/4"	13,2	8,5	14,7	31,0	17,9	18,0	7,7
HRPL06G01W	6	G 1/8"	15,0	6,0	16,1	30,5	20,1	17,0	7,7
HRPL06G02W		G 1/4"	15,0	8,5	16,1	33,0	20,1	18,0	8,7
HRPL08G01W	8	G 1/8"	17,6	6,0	17,5	31,9	21,9	18,0	10,4
HRPL08G02W		G 1/4"	17,6	8,5	17,5	34,4	21,9	18,0	11,0
HRPL08G03W		G 3/8"	17,6	9,0	17,5	34,9	21,9	22,0	12,8
HRPL10G02W	10	G 1/4"	20,0	8,5	20,1	38,0	25,8	22,0	15,4
HRPL10G03W		G 3/8"	20,0	9,0	20,1	38,5	25,8	22,0	15,8
HRPL10G04W		G 1/2"	20,0	12,5	20,1	42,0	25,8	26,0	19,1
HRPL12G03W	12	G 3/8"	23,0	9,0	24,7	43,7	31,7	26,0	23,2
HRPL12G04W		G 1/2"	23,0	12,5	24,7	47,2	31,7	26,0	25,2

**HRPT-R**

Swivel male tee BSPT thread

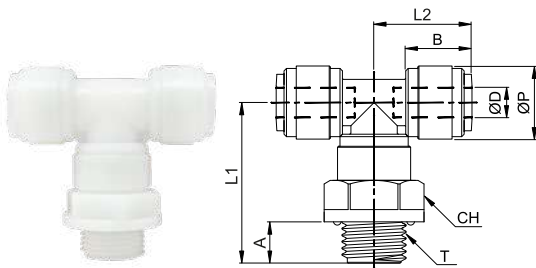


CODE	ØD	T	ØP	A	B	L1	L2	CH	g
HRPT04R01W	4	R 1/8"	13,2	9,1	14,7	29,7	17,9	15,0	7,8
HRPT04R02W		R 1/4"	13,2	13,1	14,7	33,7	17,9	17,0	9,2
HRPT06R01W	6	R 1/8"	15,0	9,1	16,1	31,7	20,1	17,0	9,3
HRPT06R02W		R 1/4"	15,0	13,1	16,1	35,7	20,1	17,0	10,3
HRPT08R01W	8	R 1/8"	17,6	9,1	17,5	33,4	21,9	19,0	13,1
HRPT08R02W		R 1/4"	17,6	13,1	17,5	37,4	21,9	19,0	14,0
HRPT08R03W		R 3/8"	17,6	13,5	17,5	37,8	21,9	19,0	14,6
HRPT10R02W	10	R 1/4"	20,0	13,1	20,1	41,4	25,8	21,0	19,5
HRPT10R03W		R 3/8"	20,0	13,5	20,1	41,8	25,8	21,0	19,6
HRPT10R04W		R 1/2"	20,0	16,5	20,1	44,8	25,8	21,0	23,9
HRPT12R03W	12	R 3/8"	23,0	13,5	24,7	42,8	31,7	24,0	30,2
HRPT12R04W		R 1/2"	23,0	16,5	24,7	51,2	31,7	24,0	32,7



**HRPT-G**

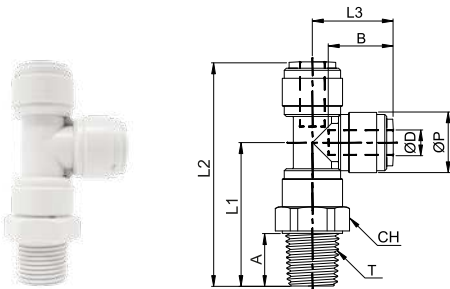
## Swivel male tee BSPP thread



CODE	ØD	T	ØP	A	B	L1	L2	CH	g
HRPT04G01W	4	G 1/8"	13,2	6,0	14,7	28,5	17,9	15	7,9
HRPT04G02W		G 1/4"	13,2	8,5	14,7	31,0	17,9	18	9,6
HRPT06G01W	6	G 1/8"	15,0	6,0	16,1	30,5	20,1	17	10,0
HRPT06G02W		G 1/4"	15,0	8,5	16,1	33,0	20,1	18	11,0
HRPT08G01W	8	G 1/8"	17,6	6,0	17,5	31,9	21,9	18	13,4
HRPT08G02W		G 1/4"	17,6	8,5	17,5	34,4	21,9	18	14,0
HRPT08G03W		G 3/8"	17,6	9,0	17,5	34,9	21,9	22	15,8
HRPT10G02W	10	G 1/4"	20,0	8,5	20,1	38,0	25,8	22	19,8
HRPT10G03W		G 3/8"	20,0	9,0	20,1	38,5	25,8	22	20,2
HRPT10G04W		G 1/2"	20,0	12,5	20,1	42,0	25,8	26	23,5
HRPT12G03W	12	G 3/8"	23,0	9,0	24,7	43,7	31,7	26	30,0
HRPT12G04W		G 1/2"	23,0	12,5	24,7	47,2	31,7	26	32,0

**HRST-R**

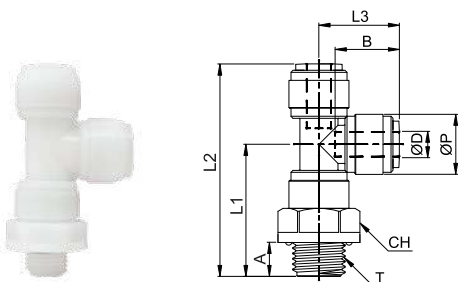
## Swivel male lateral tee BSPT thread



CODE	ØD	T	ØP	A	B	L1	L2	L3	CH	g
HRST04R01W	4	R 1/8"	13,2	9,1	14,7	29,7	47,6	17,9	15	7,8
HRST04R02W		R 1/4"	13,2	13,1	14,7	33,7	51,6	17,9	17	9,2
HRST06R01W	6	R 1/8"	15,0	9,1	16,1	31,7	51,8	20,1	17	9,3
HRST06R02W		R 1/4"	15,0	13,1	16,1	35,7	55,8	20,1	17	10,3
HRST08R01W	8	R 1/8"	17,6	9,1	17,5	33,4	55,3	21,9	19	13,1
HRST08R02W		R 1/4"	17,6	13,1	17,5	37,4	59,3	21,9	19	14,0
HRST08R03W		R 3/8"	17,6	13,5	17,5	37,8	59,7	21,9	19	14,6
HRST10R02W	10	R 1/4"	20,0	13,1	20,1	41,4	67,2	25,8	21	19,5
HRST10R03W		R 3/8"	20,0	13,5	20,1	41,8	67,6	25,8	21	19,6
HRST10R04W		R 1/2"	20,0	16,5	20,1	44,8	70,6	25,8	24	23,9
HRST12R03W	12	R 3/8"	23,0	13,5	24,7	48,2	79,9	31,7	24	30,2
HRST12R04W		R 1/2"	23,0	16,5	24,7	51,2	82,9	31,7	24	32,7

**HRST-G**

## Swivel male lateral tee BSPP thread

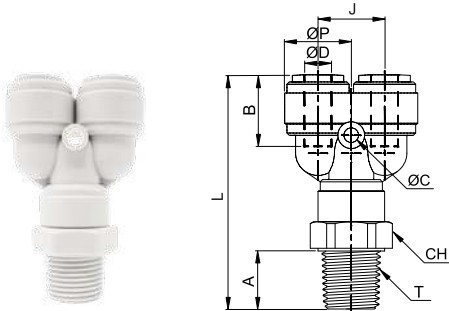


CODE	ØD	T	ØP	A	B	L1	L2	L3	CH	g
HRST04G01W	4	G 1/8"	13,2	6,0	14,7	28,5	46,4	17,9	15,0	7,9
HRST04G02W		G 1/4"	13,2	8,5	14,7	31,0	48,9	17,9	18,0	9,6
HRST06G01W	6	G 1/8"	15,0	6,0	16,1	30,5	50,6	20,1	17,0	10,0
HRST06G02W		G 1/4"	15,0	8,5	16,1	33,0	53,1	20,1	18,0	11,0
HRST08G01W	8	G 1/8"	17,6	6,0	17,5	31,9	53,8	21,9	18,0	13,4
HRST08G02W		G 1/4"	17,6	8,5	17,5	34,4	56,3	21,9	18,0	14,0
HRST08G03W		G 3/8"	17,6	9,0	17,5	34,9	56,8	21,9	22,0	15,8
HRST10G02W	10	G 1/4"	20,0	8,5	20,1	38,0	63,8	25,8	22,0	19,8
HRST10G03W		G 3/8"	20,0	9,0	20,1	38,5	64,3	25,8	22,0	20,2
HRST10G04W		G 1/2"	20,0	12,5	20,1	42,0	67,8	25,8	26,0	23,5
HRST12G03W	12	G 3/8"	23,0	9,0	24,7	43,7	75,4	31,7	26,0	30,0
HRST12G04W		G 1/2"	23,0	12,5	24,7	47,2	78,9	31,7	26,0	32,0



**HRWT-R**

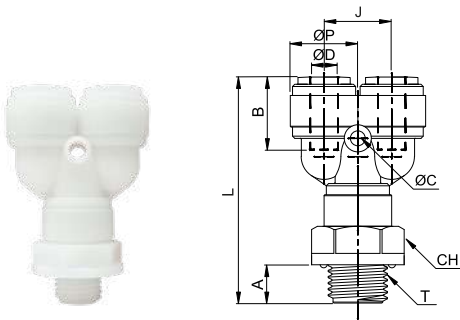
Swivel male Y BSPT thread



CODE	ØD	T	ØP	ØC	A	B	J	L	CH	g
HRWT04R01W	4	R 1/8"	13,8	3,3	9,1	14,7	13,5	45,5	15,0	8,7
HRWT04R02W		R 1/4"	13,8	3,3	13,1	14,7	13,5	49,5	17,0	10,1
HRWT06R01W	6	R 1/8"	15,5	3,3	9,1	16,1	15,5	50,4	17,0	11,6
HRWT06R02W		R 1/4"	15,5	3,3	13,1	16,1	15,5	54,4	17,0	12,5
HRWT08R01W	8	R 1/8"	17,6	4,5	9,1	17,5	17,6	52,5	19,0	14,0
HRWT08R02W		R 1/4"	17,6	4,5	13,1	17,5	17,6	56,5	19,0	14,9
HRWT08R03W		R 3/8"	17,6	4,5	13,5	17,5	17,6	56,9	19,0	15,5
HRWT10R02W	10	R 1/4"	20,0	4,5	13,1	20,1	20,0	61,8	21,0	20,9
HRWT10R03W		R 3/8"	20,0	4,5	13,5	20,1	20,0	62,2	21,0	21,0
HRWT10R04W		R 1/2"	20,0	4,5	16,5	20,1	20,0	65,2	24,0	25,3
HRWT12R03W	12	R 3/8"	23,0	4,5	13,5	24,7	23,0	72,9	24,0	33,3
HRWT12R04W		R 1/2"	23,0	4,5	16,5	24,7	23,0	75,9	24,0	35,8

**HRWT-G**

Swivel male Y BSPP thread



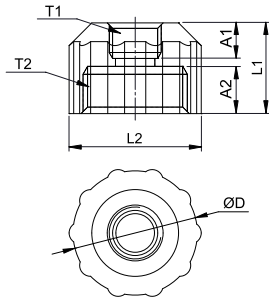
CODE	ØD	T	ØP	ØC	A	B	J	L	CH	g
HRWT04G01W	4	G 1/8"	13,8	3,3	6,0	14,7	13,5	44,3	15,0	8,8
HRWT04G02W		G 1/4"	13,8	3,3	8,5	14,7	13,5	46,8	18,0	10,5
HRWT06G01W	6	G 1/8"	15,5	3,3	6,0	16,1	15,5	49,2	17,0	11,9
HRWT06G02W		G 1/4"	15,5	3,3	8,5	16,1	15,5	51,7	18,0	12,9
HRWT08G01W	8	G 1/8"	17,6	4,5	6,0	17,5	17,6	51,0	18,0	13,9
HRWT08G02W		G 1/4"	17,6	4,5	8,5	17,5	17,6	53,5	18,0	15,1
HRWT08G03W		G 3/8"	17,6	4,5	9,0	17,5	17,6	54,0	22,0	16,8
HRWT10G02W	10	G 1/4"	20,0	4,5	8,5	20,1	20,0	58,4	22,0	21,2
HRWT10G03W		G 3/8"	20,0	4,5	9,0	20,1	20,0	58,9	22,0	21,6
HRWT10G04W		G 1/2"	20,0	4,5	12,5	20,1	20,0	62,4	26,0	24,9
HRWT12G03W	12	G 3/8"	23,0	4,5	9,0	24,7	23,0	68,4	26,0	33,1
HRWT12G04W		G 1/2"	23,0	4,5	12,5	24,7	23,0	71,9	26,0	35,1





**HUFF**

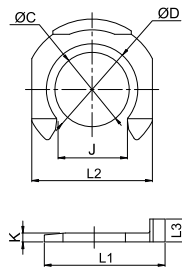
## Threaded reducer BSPP with internal flat seal



CODE	T1	T2	ØD	A1	A2	L1	L2	g
HUFFG02-G06G	G 1/4"	G 3/4"	31,5	9,5	12,0	23,0	33,5	15,6
HUFFG03-G06G	G 3/8"	G 3/4"	31,5	9,5	12,0	23,0	33,5	14,5

**HCP**

## Locking clip



CODE	ØD	ØC	J	K	L1	L2	L3	g
HCP04-5/32	04 - 5/32	6,2	4,3	1,1	11,0	10,2	2,8	0,09
HCP05-3/16	05 - 3/16	6,2	4,3	1,1	11,0	10,2	2,8	0,09
HCP06-1/4	06 - 1/4	8,0	6,4	1,3	11,6	11,6	3,1	0,12
HCP08-5/16	08 - 5/16	9,6	7,3	1,4	13,9	13,5	3,3	0,16
HCP10-3/8	10 - 3/8	11,8	9,2	1,4	16,4	16,0	3,4	0,23
HCP12-1/2	12 - 1/2	14,4	11,1	1,4	19,0	19,0	3,6	0,30

ØD	BLACK	GREY	RED	BLUE
04 - 5/32	HCP04-5/32BK	HCP04-5/32GR	HCP04-5/32RD	HCP04-5/32BL
05 - 3/16	HCP05-3/16BK	HCP05-3/16GR	HCP05-3/16RD	HCP05-3/16BL
06 - 1/4	HCP06-1/4BK	HCP06-1/4GR	HCP06-1/4RD	HCP06-1/4BL
08 - 5/16	HCP08-5/16BK	HCP08-5/16GR	HCP08-5/16RD	HCP08-5/16BL
10 - 3/8	HCP10-3/8BK	HCP10-3/8GR	HCP10-3/8RD	HCP10-3/8BL
12 - 1/2	HCP12-1/2BK	HCP12-1/2GR	HCP12-1/2RD	HCP12-1/2BL





# PUSH-IN FITTINGS XVR SERIES



PLUS

Suitable for **USE IN AGGRESSIVE ENVIRONMENTS** and **IN CRITICAL CONDITIONS**

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Suitable for **PERMANENT FOOD CONTACT APPLICATIONS**

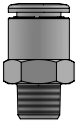
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**OPTIMIZED DESIGN WITH COMPACT DIMENSIONS**

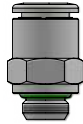
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**PRODUCTS CAN BE TAILOR-MADE TO SPECIFIC CUSTOMER NEEDS**





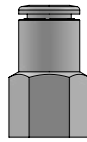
p. 103 / **XVRC-R**



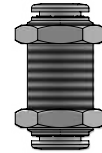
p. 103 / **XVRC-G**



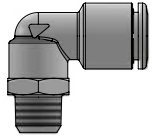
p. 103 / **XVROC-G**



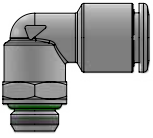
p. 104 / **XVRCF-G**



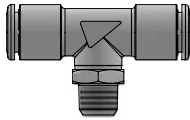
p. 104 / **XVRMM**



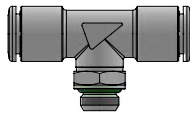
p. 104 / **XVRL-R**



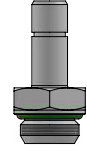
p. 105 / **XVRL-G**



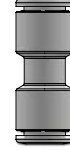
p. 105 / **XVRT-R**



p. 105 / **XVRT-G**



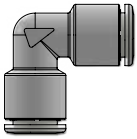
p. 106 / **XVRA-G**



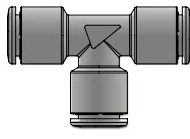
p. 106 / **XVRUC**



p. 106 / **XVRG**



p. 107 / **XVRUL**

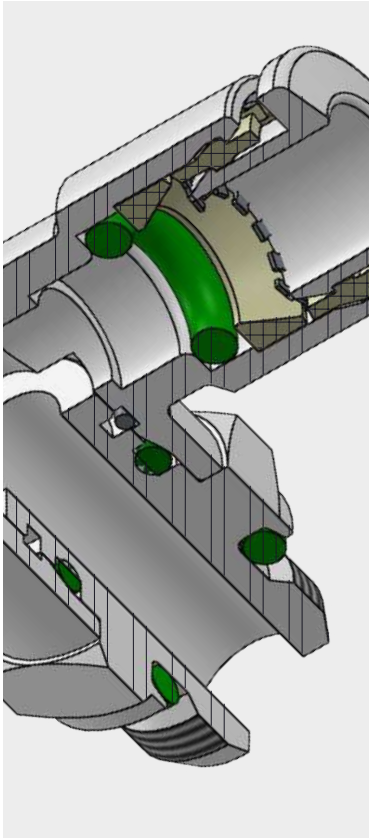



p. 107 / **XVRUT**





p. 107 / **XVRGJ**







 -20°C ÷ 150°C

 Working pressure:  
20 Bar  
Negative pressure:  
- 0,95 Bar (- 95 kPa)

 Compressed air, vacuum, water and fluids suitable with the construction materials

 - Taper gas BSPT ISO 7 from R1/8" to R1/2"  
- Parallel gas BSPP ISO 228 from G1/8" to G1/2"  
- Metric ISO 262 M5 and M7

 Polyamide PA, polyethylene PE, FEP, PTFE and stainless steel tube with groove (see the table)

- Body: Stainless steel AISI 316L
- Collet: Stainless steel AISI 316L
- Back ring: PVDF-UHM FDA compliant
- O-ring: FKM NSF/ANSI 61 certified and FDA compliant
- Seal: FKM NSF/ANSI 61 certified and FDA compliant
- Lock claw: Stainless steel AISI 301
- Collar: PVDF-UHM FDA compliant
- Retaining ring for swivel system: Stainless steel AISI 302



NSF/ANSI 169



Food contact materials EC 1935/2004



D.M. 174/2004



ICIM certified product food contact materials



ICIM certified product water contact materials

**SILICONE FREE**

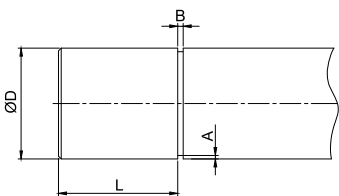


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

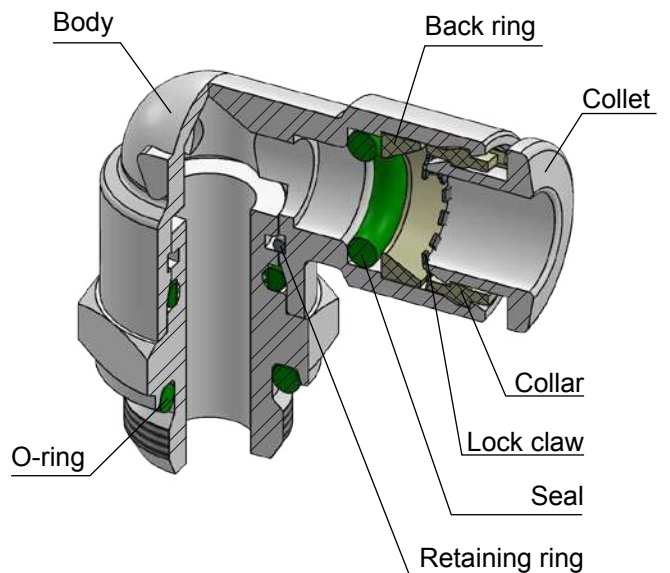
**PIPE GROOVE - HARD METALLIC TUBE**



When using metallic tubes, please deburr the tubes ends to avoid potential cutting or other damages to the O-ring.

ØD (mm)	L (mm)	B (mm)	A (mm)
4	5,35	1	0,25
6	6	1	0,5
8	7	1	0,5
10	6,45	1	0,25
12	6,75	1	0,3

**CONSTRUCTION DETAILS**

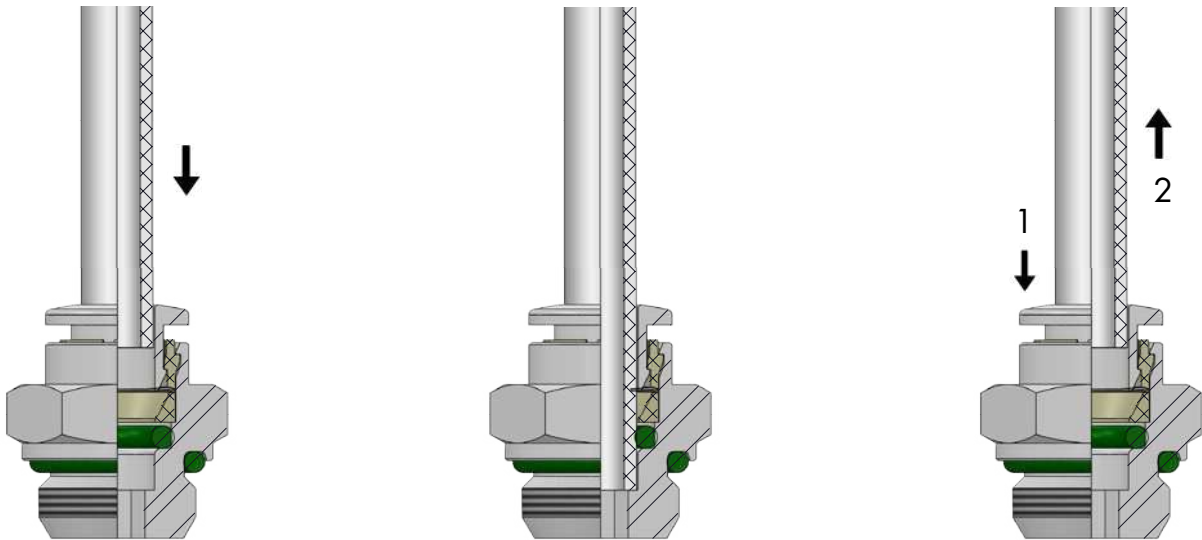


### INSERTION OF THE TUBE INTO THE FITTING

- Make sure the tube is fully inserted into the fitting.
- To insert the tube into the fitting cut the tube off square (90°), insert tube up to the fitting end stop, and pull back gently to make sure it is correctly connected.
- If there is any damage or scratches on the tube surface the tube is an oval shape, air leakage and tube release may occur. Check the tube condition carefully.
- The OD of polyurethane tube expands when pressure is applied. Reinsertion into the fitting may not always be possible. Check the OD of the tube and renew it the expansion is out of tolerance.

### DISCONNECTION OF THE TUBE FROM THE FITTING

- Make sure the pressure in the system is zero before releasing the tube from the fitting.
- To release the tube, press the release sleeve towards the fitting with one hand (1) and pull the tube away from the fitting with the other hand (2).
- Always remove the section of tube previously inserted into the fitting before reinserting the tube by cutting back the tube. Always use the correct tube cutter in order to cut the tube square and free of damage.



#### TOLERANCES - METRIC TUBE

Ø TUBE (mm)	4	6	8	10	12
TOLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15

#### INSERTION DEPTH - METRIC TUBE

Ø TUBE (mm)	4	6	8	10	12
TUBE INSERTION LENGTH (mm)	14	15,5	17,5	19	21

#### TIGHTENING TORQUE TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	10-12	14-16	16-18	18-20

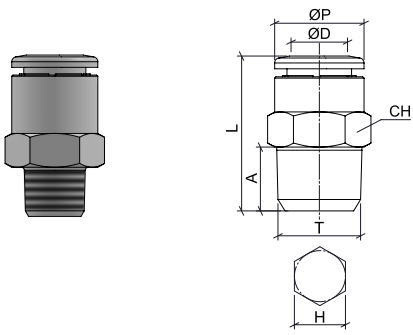
#### TIGHTENING TORQUE PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M7x1	1/8"	1/4"	3/8"	1/2"
Nm	1 ± 20%	3 ± 20%	6 ± 20%	7,5 ± 20%	9 ± 20%	9 ± 20%



**XVRC-R**

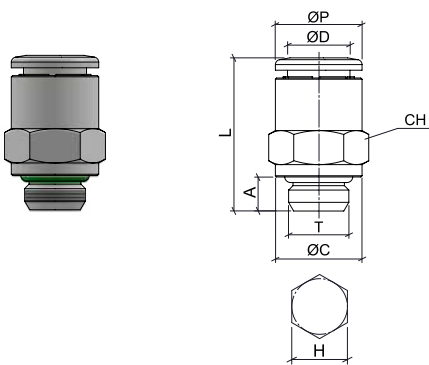
Male connector BSPT thread



CODE	ØD	T	ØP	A	L	CH	H
XVRC04R01	4	R 1/8"	10	8	18,5	10	3
XVRC04R02		R 1/4"	10	10	20	14	3
XVRC06R01	6	R 1/8"	12	8	21	12	4
XVRC06R02		R 1/4"	12	10	20,5	14	4
XVRC08R01	8	R 1/8"	14	8	26	14	5
XVRC08R02		R 1/4"	14	10	24	14	6
XVRC08R03		R 3/8"	14	11	22	17	6
XVRC10R02	10	R 1/4"	16	10	31	16	7
XVRC10R03		R 3/8"	16	11	26	17	8
XVRC12R02	12	R 1/4"	19	10	33	19	7
XVRC12R03		R 3/8"	19	11	29,5	19	10
XVRC12R04		R 1/2"	19	14	27	22	10

**XVRC-G**

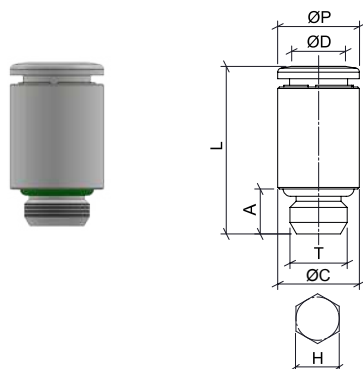
Male connector BSPP & metric thread



CODE	ØD	T	ØP	ØC	A	L	CH	H
XVRC04M5	4	M5x0,8	10	7	4	19	10	2,5
XVRC04G01		G 1/8"	10	13	5,5	18	13	3
XVRC04G02		G 1/4"	10	16	6,5	18	16	3
XVRC06M5	6	M5x0,8	12	7	5	21	12	2,5
XVRC06G01		G 1/8"	12	13	5,5	19,5	13	4
XVRC06G02		G 1/4"	12	16	6,5	19,5	16	4
XVRC08G01	8	G 1/8"	14	14	5,5	24,5	14	5
XVRC08G02		G 1/4"	14	16	6,5	21,5	16	6
XVRC08G03		G 3/8"	14	20	7,5	21,5	20	6
XVRC10G02	10	G 1/4"	16	16	6,5	27,5	16	7
XVRC10G03		G 3/8"	16	20	7,5	25	20	8
XVRC12G02	12	G 1/4"	19	16	6,5	30	19	7
XVRC12G03		G 3/8"	19	22	7,5	29,5	22	10
XVRC12G04		G 1/2"	19	25	9	28	25	10

**XVROC-G**

Male connector round body BSPP & metric thread



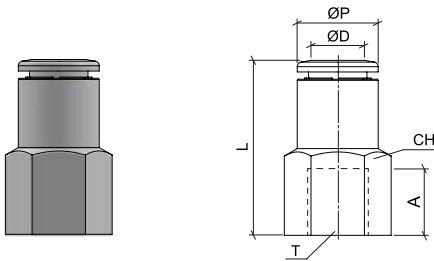
CODE	ØD	T	ØP	ØC	A	L	H
XVROC04M5	4	M5x0,8	10	10	4	19	2,5
XVROC04M7		M7x1	10	10	5,5	20,5	2,5
* XVROC06M7C	6	M7x1	10	10	5,5	20,5	4
XVROC06G01		G 1/8"	12	14	5,5	19,5	4
XVROC08G01		G 1/8"	14	14	5,5	24,5	5

\* compact version



**XVRCF-G**

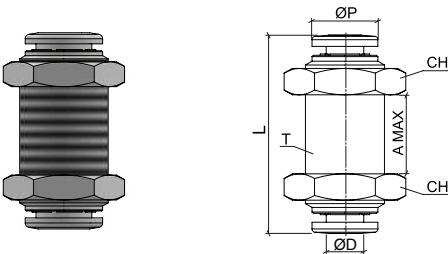
Female connector BSPP thread



CODE	ØD	T	ØP	A	L	CH
XVRCF04G01	4	G 1/8"	10	7,5	24,5	13
XVRCF06G01	6	G 1/8"	12	7,5	27	13
XVRCF08G02	8	G 1/4"	14	11	30	16

**XVRMM**

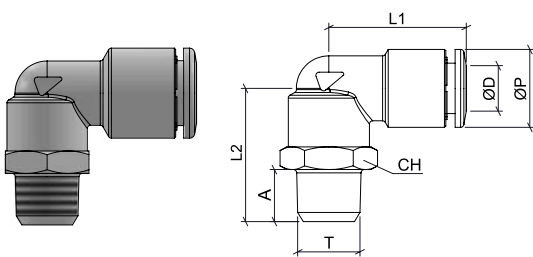
Bulkhead connector



CODE	ØD	T	ØP	A (MAX)	L	CH
XVRMM04	4	M12x1	10	12	30	16
XVRMM06	6	M14x1	12	15	35,5	17
XVRMM08	8	M16x1	14	16	36,5	19
XVRMM10	10	M20x1	16	19	43	24
XVRMM12	12	M22x1,5	19	20	44	25

**XVRL-R**

Swivel male elbow BSPT thread



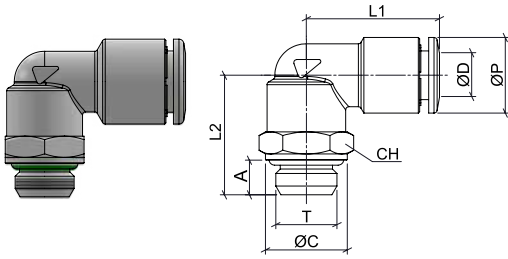
CODE	ØD	T	ØP	A	L1	L2	CH
XVRL04R01	4	R 1/8"	10	8	19,5	20,5	13
XVRL04R02		R 1/4"	10	10	19,5	23	14
XVRL06R01	6	R 1/8"	12	8	21	20,5	13
XVRL06R02		R 1/4"	12	10	21	23	14
XVRL08R01	8	R 1/8"	14	8	23	20,5	14
XVRL08R02		R 1/4"	14	10	23	23	14
XVRL08R03		R 3/8"	14	11	23	24,5	17
XVRL10R02	10	R 1/4"	16	10	26	25,5	16
XVRL10R03		R 3/8"	16	11	26	27	17
XVRL12R02	12	R 1/4"	19	10	31	28	20
XVRL12R03		R 3/8"	19	11	31	28,5	20
XVRL12R04		R 1/2"	19	14	31	31,5	22





**XVRL-G**

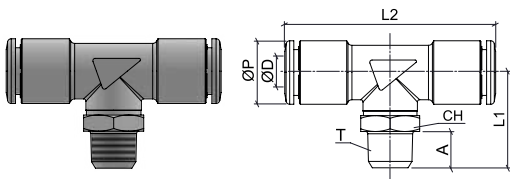
Swivel male elbow BSPP & metric thread



CODE	ØD	T	ØP	ØC	A	L1	L2	CH
XVRL04M5	4	M5x0,8	10	7	4	18	16,5	8
XVRL04G01		G 1/8"	10	13	5,5	19,5	19	13
XVRL04G02		G 1/4"	10	16	6,5	19,5	21,5	13
XVRL06M5	6	M5x0,8	12	7	4	21	16,5	8
XVRL06G01		G 1/8"	12	13	5,5	21	19	13
XVRL06G02		G 1/4"	12	16	6,5	21	21	16
XVRL08G01	8	G 1/8"	14	13	5,5	23	19	13
XVRL08G02		G 1/4"	14	16	6,5	23	21	16
XVRL08G03		G 3/8"	14	20	7,5	23	23	20
XVRL10G02	10	G 1/4"	16	16	6,5	26	23	16
XVRL10G03		G 3/8"	16	20	7,5	26	26	20
XVRL12G02	12	G 1/4"	19	16	6,5	31	25,5	20
XVRL12G03		G 3/8"	19	20	7,5	31	29	20
XVRL12G04		G 1/2"	19	25	9	31	29	25

**XVRT-R**

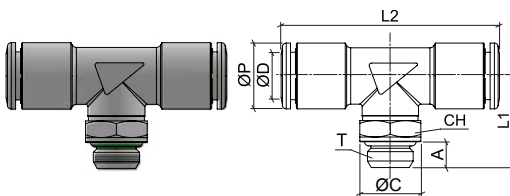
Swivel male tee BSPT thread



CODE	ØD	T	ØP	A	L1	L2	CH
XVRT04R01	4	R 1/8"	10	8	21	39	13
XVRT06R01	6	R 1/8"	12	8	21	42	13
XVRT06R02		R 1/4"	12	10	23,5	42	14
XVRT08R01	8	R 1/8"	14	8	21	46,5	13
XVRT08R02		R 1/4"	14	10	23,5	46,5	14

**XVRT-G**

Swivel male tee BSPP & metric thread

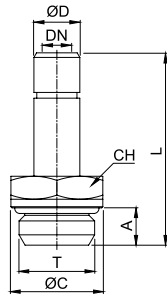
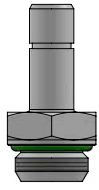


CODE	ØD	T	ØP	ØC	A	L1	L2	CH
XVRT04M5	4	M5x0,8	10	7	4	17	32	8
XVRT04G01		G 1/8"	10	13	5,5	19,5	39	13
XVRT06M5	6	M5x0,8	12	7	4	17	40	8
XVRT06G01		G 1/8"	12	13	5,5	19,5	42	13
XVRT06G02		G 1/4"	12	16	6,5	22	42	16
XVRT08G01	8	G 1/8"	14	13	5,5	19,5	46,5	13
XVRT08G02		G 1/4"	14	16	6,5	22	46,5	16
XVRT10G02	10	G 1/4"	16	16	6,5	23	52	16
XVRT10G03		G 3/8"	16	20	7,5	26	52	20
XVRT12G03	12	G 3/8"	19	20	7,5	26,5	62	20
XVRT12G04		G 1/2"	19	25	9	29	62	25



**XVRA-G**

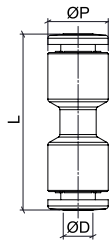
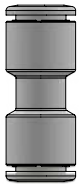
Stem adapter BSPP thread



CODE	ØD	T	ØC	A	L	DN	CH
XVRA04G01	4	G 1/8"	13	5,5	27,0	2	13
XVRA06G01	6	G 1/8"	13	5,5	28,0	4	13
XVRA06G02		G 1/4"	16	6,5	30,5	4	16
XVRA08G01	8	G 1/8"	13	5,5	29,5	6	13
XVRA08G02		G 1/4"	16	6,5	32,0	6	16
XVRA10G02	10	G 1/4"	16	6,5	36,5	8	16
XVRA12G03	12	G 3/8"	20	7,5	38,5	10	20

**XVRUC**

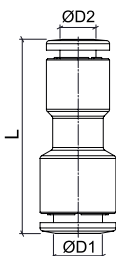
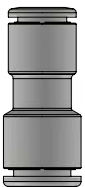
Union connector



CODE	ØD	ØP	L
XVRUC04	4	10	29
XVRUC06	6	12	32
XVRUC08	8	14	35,5
XVRUC10	10	16	39,5
XVRUC12	12	19	44

**XVRG**

Reduced union connector

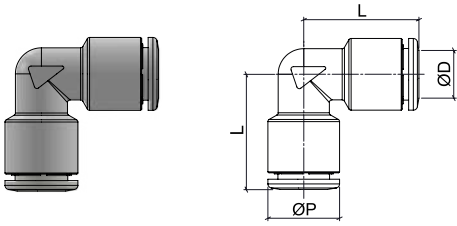


CODE	ØD1	ØD2	L
XVRG0604	6	4	30,5
XVRG0806	8	6	34
XVRG1008	10	8	37
XVRG1210	12	10	41,5



**XVRUL**

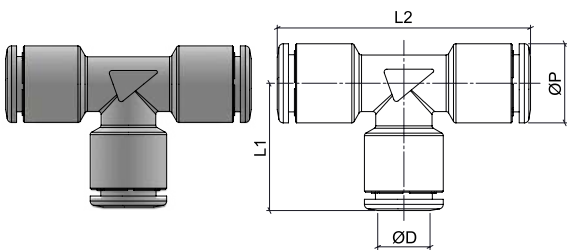
## Union elbow



CODE	ØD	ØP	L
XVRUL04	4	10	16,5
XVRUL06	6	12	20,5
XVRUL08	8	14	22,5
XVRUL10	10	16	25
XVRUL12	12	19	29

**XVRUT**

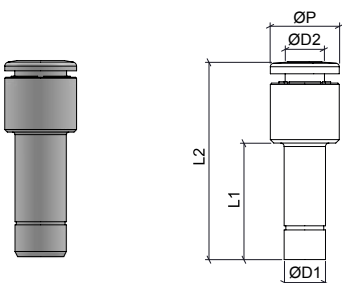
## Union tee



CODE	ØD	ØP	L1	L2
XVRUT04	4	10	16,5	33
XVRUT06	6	12	20,5	41
XVRUT08	8	14	22,5	45
XVRUT10	10	16	25	50,5
XVRUT12	12	19	29	58

**XVRGJ**

## Stem reduction



CODE	ØD1	ØD2	ØP	L1	L2
XVRGJ0604	6	4	10	17	28,5
XVRGJ0806	8	6	12	19,5	32,5
XVRGJ1006	10	6	10	24	37
XVRGJ1008	10	8	14	24	38





**PUSH-IN  
FITTINGS**  
CDC  
PNEUMATICS  
CARTRIDGES

**PLUS**

Savings in assembly time thanks to the  
**DEDICATED SLOT**

---

**IMMEDIATE CONNECTION TO THE  
TUBE**

---

**FULL PASSAGE**

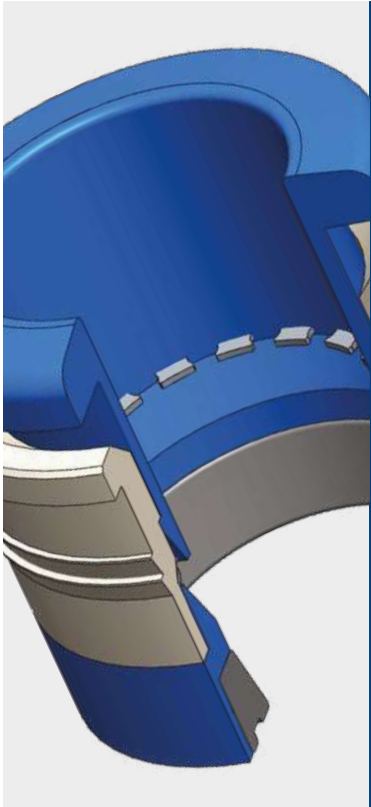




p. 112 / **CAS**

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0°C ÷ 60°C



Working pressure:  
10 Bar  
Negative pressure:  
- 0,95 Bar (- 95 kPa)



Compressed air & Vacuum  
(do not use with water)



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE

Collet: POM

Collar: Nickel-plated brass



Lock claw: Stainless steel AISI 301

Back ring: POM

Seal: NBR

**SILICONE FREE**

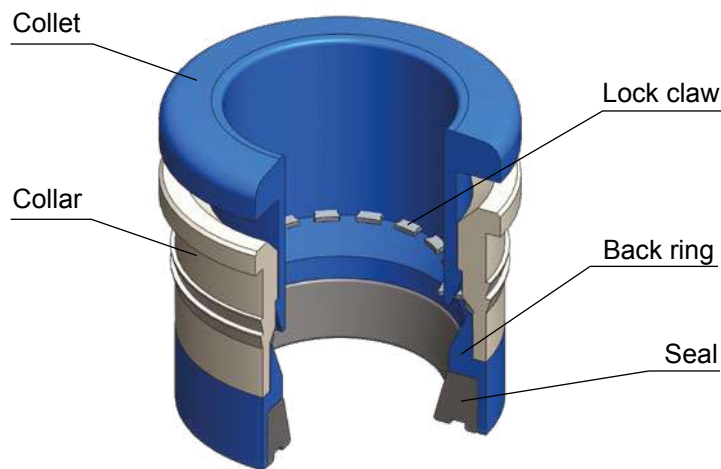


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

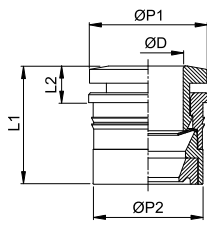
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



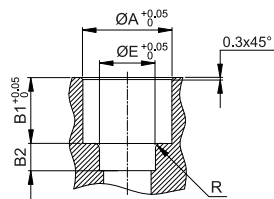
CAS

Cartridge



CODE	ØD	ØP1	ØP2	L1	L2	g
CAS04N	4	10	9	11,25	3,55	1,0
CAS06N	6	12	11,15	12,45	3,95	3,0
CAS08N	8	14	13,25	13,9	4,3	4,0
CAS10N	10	16	15,5	15,15	4,85	5,0
CAS12N	12	19	17,8	17,4	5	7,0

Sizes to produce cartridge seat



CODE	ØA	ØE	B1	B2	R
CAS04N	8,8	4,25	7,8	3,0	0,8
CAS06N	10,9	6,25	8,6	3,5	0,8
CAS08N	13	8,25	9,7	4,0	0,8
CAS10N	15,2	10,25	10,45	4,5	1,0
CAS12N	17,5	12,25	12,5	5,0	1,0





**PUSH-IN  
FITTINGS**  
**Fluidfit**  
CARTRIDGE



**PLUS**

Time saving assembly process thanks to the **DEDICATED SLOT**

---

**IMMEDIATE CONNECTION TO THE TUBE**

---

**FULL PASSAGE**

---

**SUITABLE WITH ALL COMPATIBLE FLUIDS**





p. 116 / **HCAS-P**



p. 116 / **HCAS-H**



p. 116 / **HCAS-F**





Dry air: -20°C ÷ 98°C  
Ari & Fluids: 1°C ÷ 98°C



Working pressure:  
20 Bar  
Negative pressure:  
- 0,95 Bar (- 95 kPa)



Water, beverages, vacuum,  
compressed air, gases  
& liquids suitable with  
construction materials



Polyethylene, polyamide,  
polyurethane, PTFE, FEP



Body: Brass (HCAS-H e HCAS-F) and POM (HCAS-P)  
Collet: POM  
Lock claw: POM  
Seal: EPDM suitable for food contact



Food contact materials  
EC 1935/2004



D.M. 174/2004



ICIM certified product  
food contact materials



ICIM certified product  
water contact materials



ACS



NSF51 / NSF61  
NSF certificate on behalf of  
CDC PNEUMATICS CORP.



Products in compliance with  
EC Regulation 1907/2006

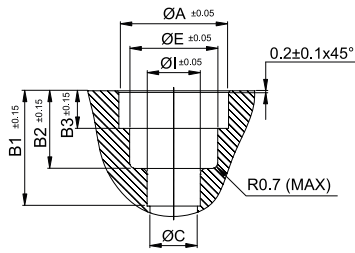
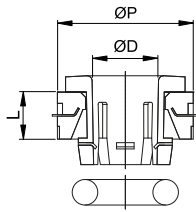


Products in compliance with  
the directive EU 2015/863



**HCAS-P**

Acetal resin cartridge



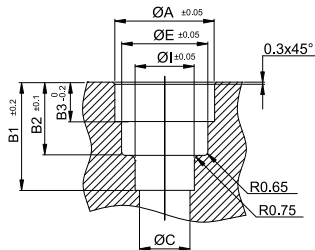
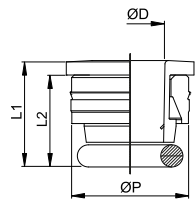
CODE	ØD	ØP	L	g
HCAS-P04	4	11,85	5,0	0,8
HCAS-P06	6	13,3	4,6	0,9
HCAS-P08	8	13,7	5,6	1,1
HCAS-P10	10	15,9	6,9	1,4
HCAS-P12	12	19,6	7,9	2,6

Sizes to produce cartridge seat

CODE	ØA	ØE	ØI	ØC	B1	B2	B3
HCAS-P04	12	8,3	4,15	3,3	12,8	8,9	4,9
HCAS-P06	13,4	10	6,15	5,3	14	9,8	4,6
HCAS-P08	13,8	11,95	8,15	7,4	15	10,15	5,5
HCAS-P10	16	14	10,15	9,2	18,2	11,8	6,9
HCAS-P12	19,75	16,55	12,15	11,2	23,9	15,9	7,75

**HCAS-H**

Brass cartridge HALF BODY



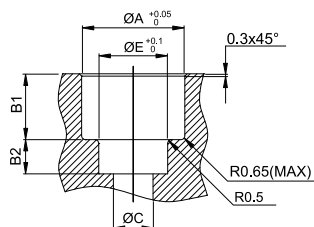
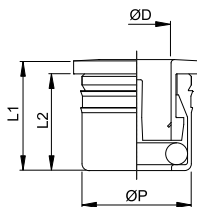
CODE	ØD	ØP	L1	L2	g
HCAS-H04	4	12,7	6,8	5,3	4,2
HCAS-H06	6	13,6	6,6	5,0	3,9
HCAS-H08	8	14	7,4	5,7	3,5
HCAS-H10	10	16,3	8,8	7,0	5,0
HCAS-H12	12	19,35	10,8	8,8	9,0

Sizes to produce cartridge seat

CODE	ØA	ØE	ØI	ØC	B1	B2	B3
HCAS-H04	12,5	8,3	4,2	3,3	12,8	8,9	4,9
HCAS-H06	13,4	10	6,2	5	14	9,8	4,6
HCAS-H08	13,8	12	8,2	7	15	10,15	5,46
HCAS-H10	16	14	10,2	9	18,2	11,8	6,86
HCAS-H12	19	16,55	12,2	11	23,5	15,5	8,65

**HCAS-F**

Brass cartridge FULL BODY



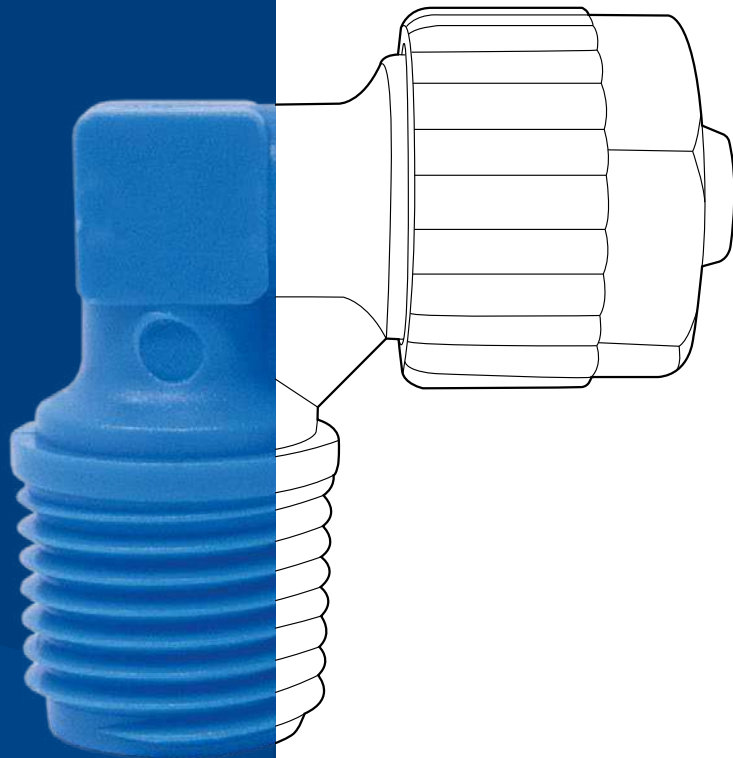
CODE	ØD	ØP	L1	L2	g
HCAS-F04	4	10,2	12,0	10,5	3,8
HCAS-F06	6	11,25	12,6	11,0	3,2
HCAS-F08	8	13,25	13,2	11,5	3,9
HCAS-F10	10	15,25	14,3	12,5	4,7
HCAS-F12	12	17,8	16,9	14,8	7,2

Sizes to produce cartridge seat

CODE	ØA	ØE	ØC	B1	B2
HCAS-F04	10	4,15	3,2	10,3	3,2
HCAS-F06	11	6,15	5,2	10,8	3,7
HCAS-F08	13	8,15	7,2	11,3	4,8
HCAS-F10	15	10,15	9,2	12,2	5,4
HCAS-F12	17,5	12,15	11,2	14,1	7,3



# PUSH-ON FITTINGS



# TECHNICAL INDEX



p. 119  
**ACETAL RESIN**

**Materials:** Acetal resin  
**Pressure:** 10 Bar  
**Temperature:** from 0°C to 60°C  
**Range:** Ø4 - Ø12 / R1/8" to R1/2"



p. 125  
**BRASS**

**Materials:** Nickel-plated brass  
**Pressure:** 18 Bar  
**Temperature:** from -20°C to 100°C  
**Range:** Ø4 - Ø15 / R1/8" to R1/2"  
Ø4 - Ø15 / M5 to G1/2"



p. 139  
**POLYPROPYLENE**



**Materials:** Reinforced polypropylene  
**Pressure:** 14 Bar  
**Temperature:** from 4°C to 90°C  
**Range:** Ø4 - Ø12 / R1/8" to R1/2"



p. 149  
**PVDF**



**Materials:** PVDF & polypropylene (lock nut)  
**Pressure:** 14 Bar  
**Temperature:** from -20°C to 120°C  
**Range:** Ø6 - Ø12 / R1/8" to R1/2"  
Ø6 - Ø10 / G1/8" to G1/4"



p. 157  
**STAINLESS STEEL AISI 316L**



**Materials:** Stainless steel AISI 316L  
**Pressure:** 25 Bar  
**Temperature:** from -40°C to 140°C  
**Range:** Ø6 - Ø12 / R1/8" to R1/2"  
Ø6 - Ø12 / G1/8" to G1/2"



**PUSH-ON  
FITTINGS**  
ACETAL  
RESIN

**PLUS**

**EASY TO USE AND GUARANTEES AN  
EXCELLENT CLAMPING OF TUBE**

---

**DESIGNED FOR COMPRESSED AIR  
AND VACUUM**

---

**EXTREMELY LIGHT AND SUITABLE  
FOR APPLICATIONS IN PNEUMATIC  
AUTOMATION**





p. 122 / **CK**



p. 122 / **GCK**



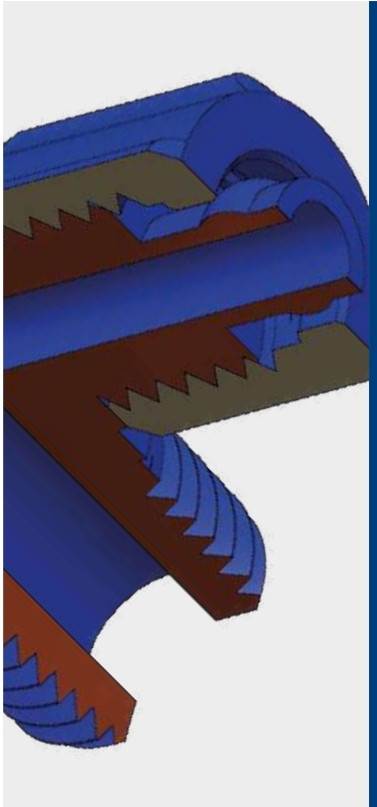
p. 122 / **FCK**



p. 123 / **PUES**







0°C ÷ 60°C



**Working pressure:**

10 Bar

**Negative pressure:**

- 0,95 Bar (- 99 Kpa)



Compressed air & Vacuum  
(do not use in water application)



Taper gas BSPT ISO 7  
from R1/8" to R1/2"



Polyurethane



**Body:** Resina acetalica

**Lock nut:** Resina acetalica

**PRECAUTIONS:**

- The fittings in this series have a plastic thread and therefore it is recommended that no excessive force is used when screwing them in and that the thread is teflon-coated before use to prevent leakage.
- It is advisable to insert the tube into the stop and tighten the nut well before use.
- Cut the part of the tube attached to the fitting for reuse.
- Not suitable for use with water.

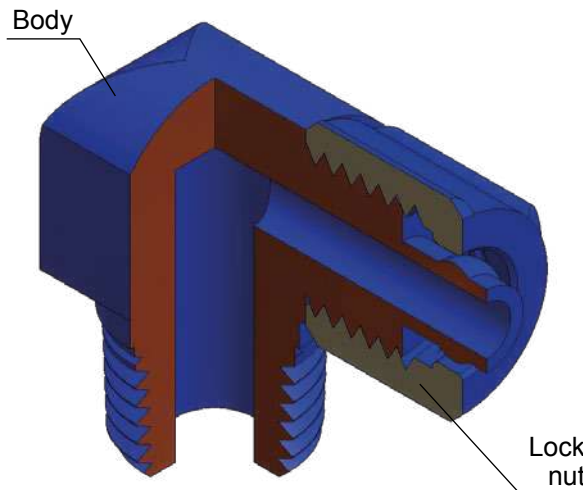


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



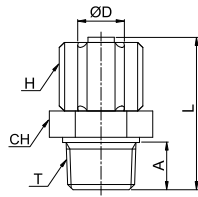
**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	1,5	1,5	3,0	3,0



**CK**

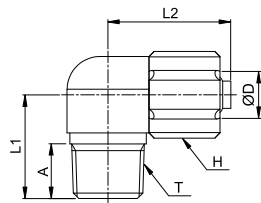
Male connector BSPT thread



CODE	ØD	T	A	L	H	CH	g
CK04R01	4/2,5	R 1/8"	8	24,5	10	12	2,0
CK06R01	6/4	R 1/8"	7	28,5	12	13	3,0
CK06R02		R 1/4"	9	30,5	12	15	4,0
CK08R01	8/5,5	R 1/8"	9	30,0	14	14	5,0
CK08R02		R 1/4"	9	29,0	14	17	5,0
CK08R03		R 3/8"	10,2	31,7	14	19	6,0
CK10R02	10/6,5	R 1/4"	9,2	33,4	17	17	7,0
CK10R03		R 3/8"	10,2	34,9	17	19	7,0
CK12R02	12/8	R 1/4"	9,2	39,0	19	17	9,0
CK12R03		R 3/8"	10,2	41,2	19	19	9,0
CK12R04		R 1/2"	15	45,0	19	22	13,0

**GCK**

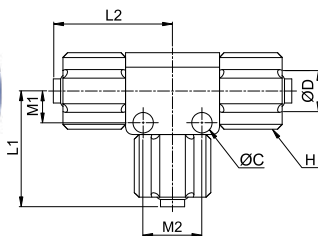
Male elbow BSPT thread



CODE	ØD	T	A	L1	L2	H	g
GCK04R01	4/2,5	R 1/8"	8	21,0	21,0	12	3,0
GCK06R01	6/4	R 1/8"	8,5	24,5	27,0	12	5,0
GCK06R02		R 1/4"	9	25,3	31,0	12	7,0
GCK08R01	8/5,5	R 1/8"	8	24,0	27,0	14	6,0
GCK08R02		R 1/4"	10	26,0	30,0	14	8,0
GCK08R03		R 3/8"	10,2	27,5	32,5	14	10,0
GCK10R02	10/6,5	R 1/4"	12	30,0	32,0	17	10,0
GCK10R03		R 3/8"	12	31,0	37,9	17	12,0
GCK12R02	12/8	R 1/4"	11	32,0	41,5	19	14,0
GCK12R03		R 3/8"	12	34,0	41,5	19	16,0
GCK12R04		R 1/2"	15	39,0	45,0	19	19,0

**FCK**

Union tee



CODE	ØD	ØC	M1	M2	L1	L2	H	g
FCK0400	4/2,5	2,6	5,6	9,0	22,5	36,0	10	4,0
FCK0600	6/4	4,3	5,7	11,2	31,1	48,3	12	11,0
FCK0800	8/5,5	4,3	6,6	12,2	32,0	49,5	14	14,0
FCK1000	10/6,5	4,3	8,3	13,4	40,0	54,0	17	24,0
FCK1200	12/8	4,3	9,3	13,7	47,7	68,0	19	26,0











**PUES**

Polyurethane tube on polyester basis



CODE	Ø ODxID	TOLERANCE ØOD	THICKNESS (mm)	MIN. BENDING RADIUS AT 23 °C (mm)	WORKING PRESSURE AT 23 °C (Bar)	BURSTING PRESSURE AT 23 °C (Bar)	g/m	Q.TY FOR ROLL (m)
PUES0425	4x2,5	±0,1	0,75	12	10	30	13	100
PUES0604	6x4	±0,1	1	15	10	25	25,5	100
PUES0855	8x5,5	±0,1	1,25	20	10	25	37,5	100
PUES1065	10x6,5	±0,15	1,75	25	10	25	65,2	100
PUES1208	12x8	±0,15	2	35	10	25	80,8	100

Sizes ODxID	 Light blue	 Black	 Red	 Yellow	 Green	 Silver	 Transparent	 Transparent light blue
4X2,5	PUES0425AZ	PUES0425NE	PUES0425RO	PUES0425GL	PUES0425VD	PUES0425SL	PUES0425TR	PUES0425AZTR
6X4	PUES0604AZ	PUES0604NE	PUES0604RO	PUES0604GL	PUES0604VD	PUES0604SL	PUES0604TR	PUES0604AZTR
8X5,5	PUES0855AZ	PUES0855NE	PUES0855RO	PUES0855GL	PUES0855VD	PUES0855SL	PUES0855TR	PUES0855AZTR
10X6,5	PUES1065AZ			PUES1065GL				
12X8	PUES1208AZ	PUES1208NE		PUES1208GL			PUES1208TR	

Full data sheet available on page 691





**PUSH-ON  
FITTINGS  
BRASS**

**PLUS**

**GREAT GRIPPING SYSTEM WITH THE  
LOCKING NUT**

---

**SUITABLE FOR USE WITH AIR AND  
DIFFERENT FLUIDS**

---

**EASY TO USE AND EXTREMELY  
STRONG**

---

**GREAT MECHANICAL RESISTANCE**





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p. 128 / **2502**



p. 129 / **2503**



p. 129 / **2505**



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p. 130 / **2511**



p. 130 / **2512**



p. 131 / **2513**



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p. 137 / **251V**



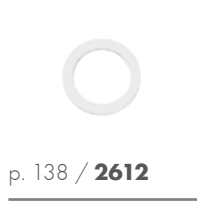
p. 137 / **252V**



p. 137 / **2630**



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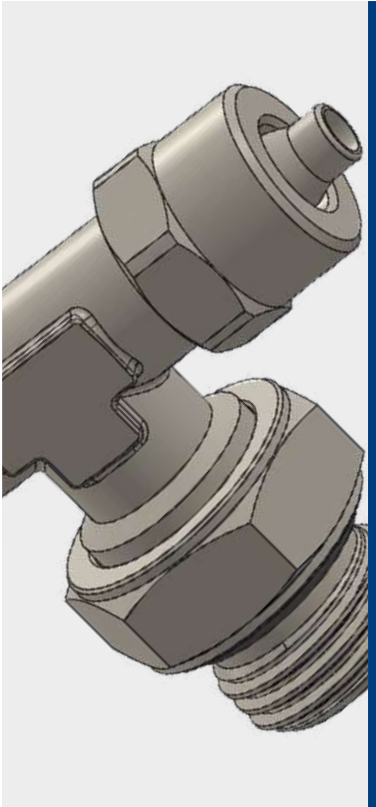


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-20°C ÷ 100°C with o-ring in NBR  
 -15°C ÷ 200°C with o-ring in Viton  
 The working temperature depends on the features of the tube used.



**Working pressure:**  
 18 Bar  
 The working temperature depends on the features of the tube used.



Compressed air, water, oil and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1/2"
- Parallel gas BSPP ISO 228 from G1/8" to G1/2"
- Metric ISO 262 M5, M6 and M12



Polyurethane, polyethylene, polyamide, PTFE, FEP

**Body:** Nickel-plated brass  
 Turning: UNI EN 12164 CW 614N  
 Hot forging & machining:  
 UNI EN 12165 CW 617N  
**Lock nut:** Nickel-plated brass  
 UNI EN 12164 CW 614N  
**O-ring:** NBR 70



**AVAILABILITY:**

- Available on request and with a minimum yellow brass quantity
- Available on request with o-ring in viton

**SILICONE FREE**

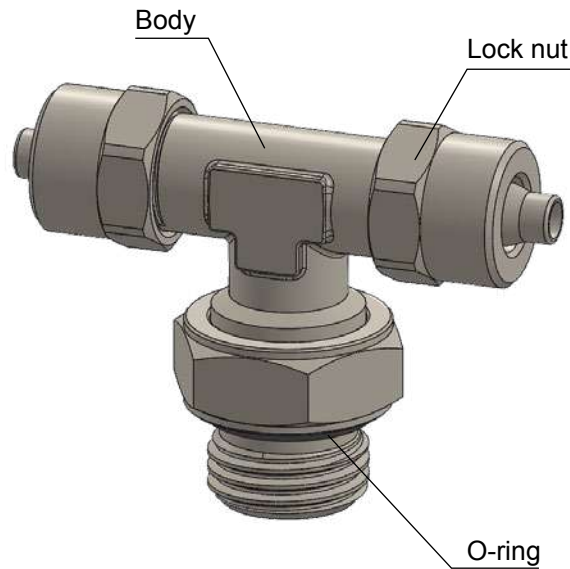


Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
 TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	8	12	14	16

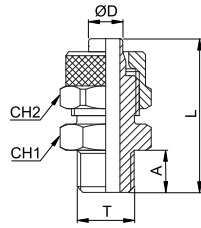
**TIGHTENING TORQUE**  
 PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M6x1	1/8"	1/4"	3/8"	1/2"
Nm	0,8	0,8	1,2	1,5	2,5	3,5



**2500**

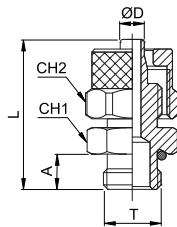
Male connector BSPP thread



CODE	ØD	T	A	L	CH1	CH2	g
2500TR1853	5/3	G 1/8"	6	23,0	14	8	10,0
2500TR1864	6/4	G 1/8"	6	25,5	14	12	16,0
2500TR1464		G 1/4"	8	28,0	17	12	24,0
2500TR3864	8/6	G 3/8"	9	29,0	19	12	28,0
2500TR1886		G 1/8"	6	25,5	14	14	18,0
2500TR1486	8/6	G 1/4"	8	28,0	17	14	26,0
2500TR3886		G 3/8"	9	29,0	19	14	28,0
2500TR18108	10/8	G 1/8"	6	27,5	14	16	24,0
2500TR14108		G 1/4"	8	29,5	17	16	30,0
2500TR38108		G 3/8"	9	30,5	19	16	34,0
2500TR12108	12/10	G 1/2"	10	32,0	24	16	44,0
2500TR381210		G 3/8"	9	32,0	19	18	38,0
2500TR121210		G 1/2"	10	33,5	24	18	48,0
2500TR1215125	15/12,5	G 1/2"	10	33,5	24	22	60,0

**2502**

Male connector BSPP thread with o-ring



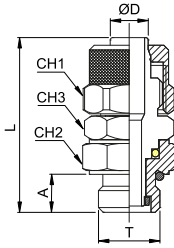
CODE	ØD	T	A	L	CH1	CH2	g
2502TR18427	4/2,7	G 1/8"	6	21,8	13	8	10,0
2502TR1853	5/3	G 1/8"	6	23,0	13	8	11,0
2502TR1864	6/4	G 1/8"	6	25,5	13	12	16,0
2502TR1464		G 1/4"	8	28,0	16	12	21,0
2502TR3864	8/6	G 3/8"	9	29,0	19	12	26,0
2502TR1264		G 1/2"	10	30,5	24	12	45,0
2502TR1886	8/6	G 1/8"	6	26,0	14	14	18,0
2502TR1486		G 1/4"	8	28,0	16	14	22,0
2502TR3886		G 3/8"	9	29,0	19	14	31,0
2502TR1286	10/8	G 1/2"	10	30,5	24	14	38,0
2502TR18108		G 1/8"	6	28,0	14	16	24,0
2502TR14108		G 1/4"	8	29,5	16	16	28,0
2502TR38108	10/8	G 3/8"	9	30,5	19	16	32,0
2502TR12108		G 1/2"	10	32,0	24	16	51,0
2502TR381210	12/10	G 3/8"	9	32,0	19	18	36,0
2502TR121210		G 1/2"	10	33,5	24	18	46,0
2502TR1215125	15/12,5	G 1/2"	10	35,5	24	22	52,0





**2503**

Swivel male connector BSPP thread with o-ring

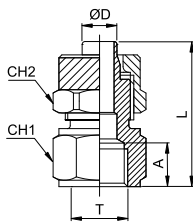


CODE	ØD	T	A	L	CH1	CH2	CH3	g
2503TR1864	6/4	G 1/8"	6	36,0	12	13	12	24,0
2503TR1464		G 1/4"	8	37,5	12	16	14	30,0
* 2503TR1885	8/5	G 1/8"	6	36,0	14	13	12	26,0
* 2503TR1485		G 1/4"	8	37,5	14	16	14	32,0
2503TR1886	8/6	G 1/8"	6	36,0	14	13	12	26,0
2503TR1486		G 1/4"	8	37,5	14	16	14	32,0
* 2503TR141065	10/6,5	G 1/4"	8	39,0	16	16	14	38,0
2503TR14108	10/8	G 1/4"	8	39,0	16	16	14	38,0
* 2503TR38128	12/8	G 3/8"	9	42,0	18	19	17	50,0
2503TR381210	12/10	G 3/8"	9	42,0	18	19	17	52,0

\* Suitable for use with UCES coiled tubes on page 760

**2505**

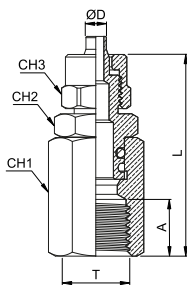
Female connector BSPP thread



CODE	ØD	T	A	L	CH1	CH2	g
2505TR18427	4/2,7	G 1/8"	8,0	21,3	14	8	11,0
2505TR1853	5/3	G 1/8"	8,0	22,5	14	8	12,0
2505TR1864	6/4	G 1/8"	8,0	25,0	14	12	18,0
2505TR1464		G 1/4"	11,0	29,0	17	12	26,0
2505TR3864	8/6	G 3/8"	11,5	29,5	20	12	30,0
2505TR1886		G 1/8"	8,0	25,0	14	14	20,0
2505TR1486		G 1/4"	11,0	29,0	17	14	28,0
2505TR3886	10/8	G 3/8"	11,5	29,5	20	14	32,0
2505TR1286		G 1/2"	14	33,0	24	14	32,0
2505TR18108		G 1/8"	8,0	26,5	14	16	24,0
2505TR14108	10/8	G 1/4"	11,0	30,5	17	16	32,0
2505TR38108		G 3/8"	11,5	31,0	20	16	36,0
2505TR12108	12/10	G 1/2"	14,0	34,5	24	16	50,0
2505TR381210		G 3/8"	11,5	32,5	20	18	40,0

**2506**

Swivel female connector BSPP thread



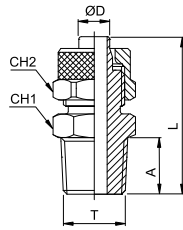
CODE	ØD	T	A	L	CH1	CH2	CH3	g
2506TR1464	6/4	G 1/4"	11,0	42,5	16	14	12	-
* 2506TR1485	8/5	G 1/4"	11,0	41,0	16	14	14	-
2506TR1486	8/6	G 1/4"	11,0	42,5	16	14	14	-
* 2506TR141065	10/6,5	G 1/4"	11,0	44,0	16	14	16	-
2506TR14108	10/8	G 1/4"	11,0	44,0	16	14	16	-

\* Suitable for use with UCES coiled tubes on page 760



2510

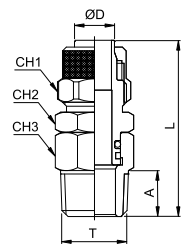
Male connector BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2510TR18427	4/2,7	R 1/8"	8	23,8	12	8	10,0
2510TR1853	5/3	R 1/8"	8,0	25,0	12	8	10,0
2510TR1864	6/4	R 1/8"	8,0	27,5	12	12	16,0
2510TR1464		R 1/4"	11,0	31,0	14	12	20,0
2510TR3864		R 3/8"	11,5	31,5	17	12	26,0
2510TR1886	8/6	R 1/8"	8,0	27,5	12	14	18,0
2510TR1486		R 1/4"	11,0	31,0	14	14	22,0
2510TR3886		R 3/8"	11,5	31,5	17	14	28,0
2510TR1286		R 1/2"	14,0	34,5	22	14	44,0
2510TR18108	10/8	R 1/8"	8,0	29,5	14	16	24,0
2510TR14108		R 1/4"	11,0	32,5	14	16	28,0
2510TR38108		R 3/8"	11,5	33,0	17	16	34,0
2510TR12108		R 1/2"	14,0	36,0	22	16	46,0
2510TR381210	12/10	R 3/8"	11,5	34,5	17	18	38,0
2510TR121210		R 1/2"	14,0	37,5	22	18	50,0
2510TR1215125	15/12,5	R 1/2"	14,0	39,5	22	22	62,0

2511

Swivel male connector BSPT thread

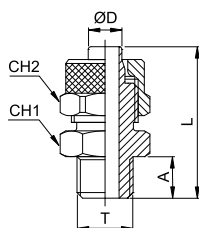


CODE	ØD	T	A	L	CH1	CH2	CH3	g
2511TR1864	6/4	G 1/8"	8	37,0	12	12	12	22,0
2511TR1464		G 1/4"	11	40,0	12	14	14	28,0
* 2511TR1885	8/5	G 1/8"	8	37,0	14	12	12	30,0
* 2511TR1485		G 1/4"	11	40,0	14	14	14	32,0
2511TR1886	8/6	G 1/8"	8	37,0	14	12	12	26,0
2511TR1486		G 1/4"	11	40,0	14	14	14	30,0
* 2511TR141065	10/6,5	G 1/4"	11	42,0	16	14	14	34,0
2511TR14108	10/8	G 1/4"	11	42,0	16	14	14	34,0
* 2511TR38128	12/8	G 3/8"	11,5	44,0	18	17	17	50,0
2511TR381210	12/10	G 3/8"	11,5	44,0	18	17	17	50,0

\* Suitable for use with UCES coiled tubes on page 760

2512

Male connector metric thread

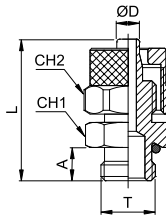


CODE	ØD	T	A	L	CH1	CH2	g
2512TRM553	5/3	M5	4	20,0	8	8	4,0
2512TRM653		M6	5	21,0	8	8	6,0
2512TRM564	6/4	M5	4	21,0	8	9	6,0
2512TRM664		M6	5	22,0	8	9	6,0
2512TRM1212564		M12x1,25	8	28,0	17	12	22,0
2512TRM121564	8/6	M12x1,5	8	28,0	17	12	22,0
2512TRM1212586		M12x1,25	8	28,0	17	14	24,0
2512TRM121586		M12x1,5	8	28,0	17	14	24,0



**2513**

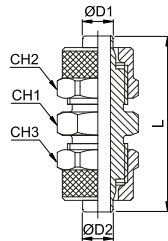
Male connector metric thread with o-ring



CODE	ØD	T	A	L	CH1	CH2	g
2513TRM5427	4/2,7	M5	4	20,0	8	8	6,0
2513TRM6427		M6	4	20,0	8	8	6,0
2513TRM553	5/3	M5	4	20,5	8	8	6,0
2513TRM653		M6	4	20,5	8	8	6,0
2513TRM564	6/4	M5	4	21,0	8	12	6,0
2513TRM664		M6	4	21,0	8	12	6,0
2513TRM12164		M12x1	8	28,0	15	12	20,0
2513TRM1212564	8/6	M12x1,25	8	28,0	15	12	20,0
2513TRM121564		M12x1,5	8	28,0	15	12	20,0
2513TRM1212586		M12x1,25	8	28,0	17	14	17,0
2513TRM121586	M12x1,5	8	28,0	17	14	17,0	

**2515**

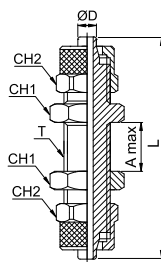
Union connector



CODE	ØD1	ØD2	L	CH1	CH2	CH3	g
2515TR427	4/2,7	4/2,7	26,0	8	8	8	8,0
2515TR53	5/3	5/3	28,5	8	8	8	8,0
2515TR64	6/4	6/4	34,5	12	12	12	22,0
2515TR86	8/6	8/6	35,0	14	14	14	28,0
2515TR8664		6/4	35,0	14	14	12	26,0
2515TR108	10/8	10/8	38,0	14	16	16	36,0
2515TR1210	12/10	12/10	41,0	17	18	18	48,0
2515TR15125	15/12,5	15/12,5	45,5	22	22	22	78,0

**2520**

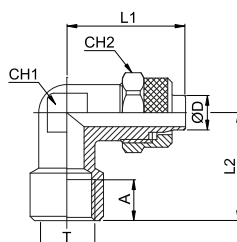
Bulkhead connector



CODE	ØD	T	A MAX	L	CH1	CH2	g
2520TR427	4/2,7	M6x0,5	8,5	36,7	9	8	10,0
2520TR53	5/3	M7x0,75	8,5	40,0	9	8	12,0
2520TR64	6/4	M10x1	10,5	48,0	14	12	34,0
2520TR86	8/6	M12x1	10,5	48,0	16	14	42,0
2520TR108	10/8	M14x1	8,5	50,0	17	16	54,0
2520TR1210	12/10	M16x1	8,5	53,0	19	18	76,0
2520TR15125	15/12,5	M20x1	8,5	58,0	24	22	110,0

**2530**

Female elbow BSPP thread

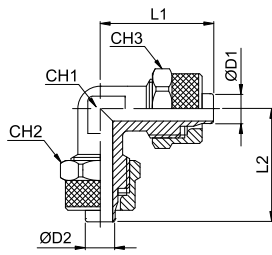


CODE	ØD	T	A	L1	L2	CH1	CH2	g
2530TR1853	5/3	G 1/8"	8,0	21,5	19,0	10	8	16,0
2530TR1864	6/4	G 1/8"	8,0	22,7	19,0	10	12	22,0
2530TR1464		G 1/4"	10,5	24,5	23,0	11	12	36,0
2530TR1886	8/6	G 1/8"	8,0	22,7	19,0	10	14	22,0
2530TR1486		G 1/4"	10,5	25,0	23,0	11	14	32,0
2530TR14108	10/8	G 1/4"	11,0	26,0	23,5	13	16	38,0
2530TR381210	12/10	G 3/8"	11,5	30,5	28,0	17	18	60,0



2535

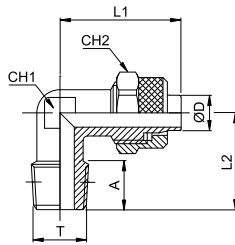
Union elbow connector



CODE	ØD1	ØD2	L1	L2	CH1	CH2	CH3	g
2535TR427	4/2,7	4/2,7	20,3	20,3	8	8	8	11,0
2535TR53	5/3	5/3	21,5	21,5	8	8	8	12,0
2535TR64	6/4	6/4	21,5	21,5	8	12	12	20,0
2535TR86	8/6	8/6	22,5	22,5	10	14	14	28,0
2535TR8664		6/4	22,5	22,5	10	14	12	26,0
2535TR108	10/8	10/8	25,5	25,5	11	16	16	38,0
2535TR1210	12/10	12/10	30,0	30,0	14	18	18	56,0
2535TR15125	15/12,5	15/12,5	34,0	34,0	17	22	22	88,0

2540

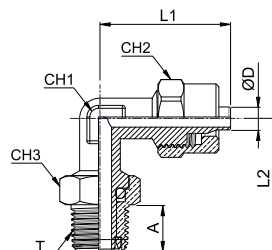
Male elbow BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
2540TR18427	4/2,7	R 1/8"	8,0	19,5	17,0	8	8	10,0
2540TR1853	5/3	R 1/8"	8,0	21,5	17,0	8	8	10,0
2540TR1864	6/4	R 1/8"	8,0	22,5	17,0	8	12	16,0
2540TR1464		R 1/4"	11,0	22,5	20,0	10	12	22,0
2540TR3864		R 3/8"	11,5	23,5	22,5	11	12	30,0
2540TR1886	8/6	R 1/8"	8,0	22,5	17,0	10	14	20,0
2540TR1486		R 1/4"	11,0	22,5	20,0	10	14	24,0
2540TR3886		R 3/8"	11,5	24,0	22,5	11	14	32,0
2540TR1286		R 1/2"	14	26,5	28,0	17	14	37,0
2540TR18108	10/8	R 1/8"	8,0	25,5	18,5	11	16	28,0
2540TR14108		R 1/4"	11,0	25,5	21,5	11	16	32,0
2540TR38108		R 3/8"	11,5	25,5	22,5	11	16	34,0
2540TR12108		R 1/2"	14,0	28,0	28,0	17	16	56,0
2540TR141210	12/10	R 1/4"	11,0	30,0	24,0	14	18	42,0
2540TR381210		R 3/8"	11,5	30,0	24,5	14	18	48,0
2540TR121210		R 1/2"	14,0	30,5	28,0	17	18	60,0
2540TR1215125	15/12,5	R 1/2"	14,0	34,0	28,0	17	22	70,0

2541

Swivel male elbow BSPT thread

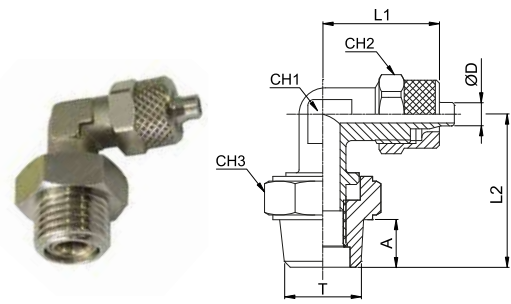


CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2541TR18427	4/2,7	R 1/8"	8	20,5	23,0	8	8	12	18,0
2541TR1864	6/4	R 1/8"	8	22,5	23,0	8	12	12	22,0
2541TR1464		R 1/4"	11	23,0	26,0	10	12	16	34,0
2541TR1886	8/6	R 1/8"	8	23,0	22,0	10	14	12	28,0
2541TR1486		R 1/4"	11	23,0	26,0	10	14	16	36,0
2541TR14108	10/8	R 1/4"	11	25,5	27,0	11	16	16	42,0



**2542**

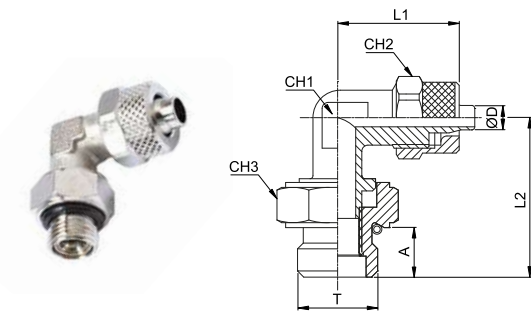
Swivel male elbow BSPP thread



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2542TR18427	4/2,7	G 1/8"	6	20,5	23,0	8	12	14	18,0
2542TR1864	6/4	G 1/8"	6	22,5	23,0	8	12	14	22,0
2542TR1464		G 1/4"	8	23,0	25,0	10	12	17	34,0
2542TR1886	8/6	G 1/8"	6	23,0	22,0	10	14	14	28,0
2542TR1486		G 1/4"	8	23,0	25,0	10	14	17	36,0
2542TR14108	10/8	G 1/4"	8	25,5	26,0	11	16	17	42,0

**2543**

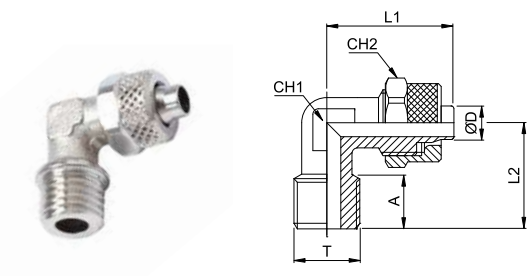
Swivel male elbow BSPP thread with o-ring



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2543TR18427	4/2,7	G 1/8"	6	20,5	23,0	8	12	14	19,0
2543TR1864	6/4	G 1/8"	6	22,5	23,0	8	12	14	23,0
2543TR1464		G 1/4"	8	23,0	25,0	10	12	17	35,0
2543TR1886	8/6	G 1/8"	6	23,0	22,0	10	14	14	29,0
2543TR1486		G 1/4"	8	23,0	25,0	10	14	17	37,0
2543TR14108	10/8	G 1/4"	8	25,5	26,0	11	14	17	43,0

**2548**

Male elbow metric thread

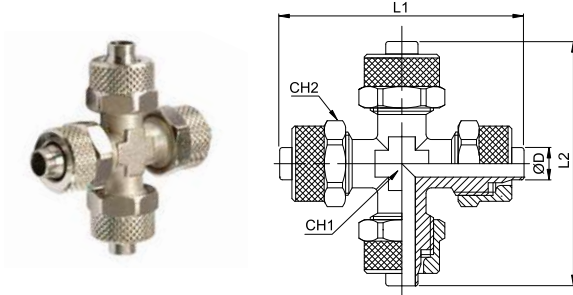


CODE	ØD	T	A	L1	L2	CH1	CH2	g
2548TRM5427	4/2,7	M5	4	19,5	15,0	8	8	10,0
2548TRM6427		M6	4	19,5	15,0	8	8	10,0
2548TRM553	5/3	M5	4	21,5	15,0	8	8	10,0
2548TRM564	6/4	M5	4	22,5	15,0	8	9	14,0
2548TRM1212564		M12x1,25	9	22,5	20,5	10	12	24,0
2548TRM121564		M12x1,5	9	22,5	20,5	10	12	22,0
2548TRM1212586	8/6	M12x1,25	9	22,5	20,5	10	14	24,0
2548TRM121586		M12x1,5	9	22,5	20,5	10	14	24,0



**2550**

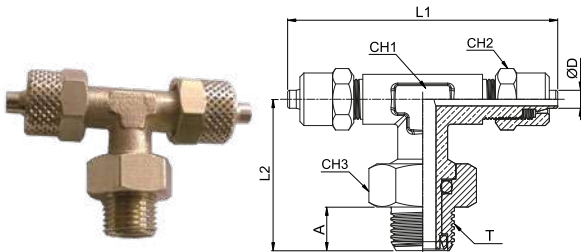
Cross junction connector



CODE	ØD	L1	L2	CH1	CH2	g
2550TR53	5/3	43,0	43,0	8	8	22,0
2550TR64	6/4	45,0	45,0	8	12	42,0
2550TR86	8/6	45,0	45,0	10	14	52,0
2550TR108	10/8	51,0	51,0	11	16	70,0

**2552**

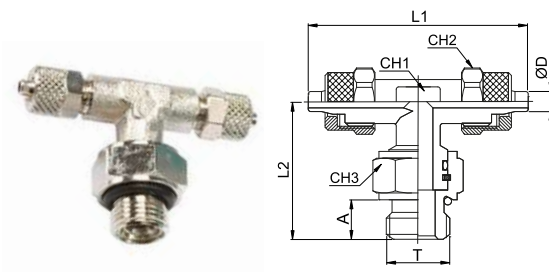
Swivel male tee BSPP thread



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2552TR18427	4/2,7	G 1/8"	6	40,5	23,0	8	8	13	19,0
2552TR1864	6/4	G 1/8"	6	45,0	23,0	8	12	13	23,0
2552TR1464		G 1/4"	8	45,5	26,0	10	12	17	35,0
2552TR1886	8/6	G 1/8"	6	45,5	23,0	10	14	13	29,0
2552TR1486		G 1/4"	8	45,5	26,0	10	14	17	37,0
2552TR14108	10/8	G 1/4"	8	51,0	27,0	11	16	17	43,0

**2553**

Swivel male tee BSPP thread with o-ring

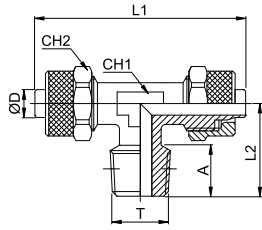


CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2553TR18427	4/2,7	G 1/8"	6	40,5	23,0	8	8	13	19,0
2553TR1864	6/4	G 1/8"	6	45,0	23,0	8	12	13	23,0
2553TR1464		G 1/4"	8	45,5	26,0	10	12	17	35,0
2553TR1886	8/6	G 1/8"	6	45,5	23,0	10	14	13	29,0
2553TR1486		G 1/4"	8	45,5	26,0	10	14	17	37,0
2553TR14108	10/8	G 1/4"	8	51,0	27,0	11	16	17	43,0



**2555**

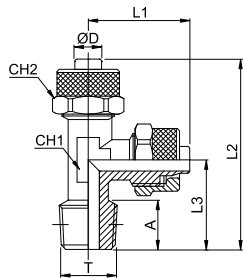
Male tee BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
2555TR18427	4/2,7	R 1/8*	8	40,6	17,0	8	8	16,0
2555TRM553	5/3	M5	4	43,0	15,0	8	8	16,0
2555TR1853		R 1/8*	8	43,0	17,0	8	8	16,0
2555TR1864	6/4	R 1/8*	8	45,0	17,0	8	12	26,0
2555TR1464		R 1/4*	11	45,5	20,5	10	12	34,0
2555TR3864		R 3/8*	11,5	48,0	22,5	11	12	42,0
2555TR1886	8/6	R 1/8*	8	45,5	17,5	10	14	34,0
2555TR1486		R 1/4*	11	45,5	20,5	10	14	36,0
2555TR3886		R 3/8*	11,5	48,0	22,5	11	14	44,0
2555TR18108	10/8	R 1/8*	8	51,0	18,5	11	16	44,0
2555TR14108		R 1/4*	11	51,0	21,5	11	16	48,0
2555TR38108		R 3/8*	11,5	51,0	22,5	11	16	50,0
2555TR12108		R 1/2*	14	57,0	28,0	17	16	80,0
2555TR381210	12/10	R 3/8*	11,5	60,0	24,5	14	18	70,0
2555TR121210		R 1/2*	14	61,0	28,0	17	18	86,0
2555TR1215125	15/12,5	R 1/2*	14	68,0	28,0	17	22	108,0

**2560**

Lateral male tee BSPT thread

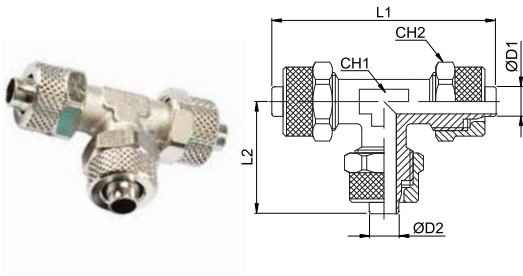


CODE	ØD	T	A	L1	L2	L3	CH1	CH2	g
2560TR18427	4/2,7	R 1/8*	8	21,5	38,0	17,0	8	8	16,0
2560TRM553	5/3	M5	4	21,5	36,5	15,0	8	8	16,0
2560TR1853		R 1/8*	8	21,5	38,5	17,0	8	8	16,0
2560TR1864	6/4	R 1/8*	8	22,5	39,5	17,0	8	12	26,0
2560TR1464		R 1/4*	11	22,7	43,5	20,7	10	12	34,0
2560TR3864		R 3/8*	11,5	24,0	46,5	22,5	11	12	42,0
2560TR1886	8/6	R 1/8*	8	22,7	40,5	17,7	10	14	34,0
2560TR1486		R 1/4*	11	22,7	43,5	20,7	10	14	36,0
2560TR3886		R 3/8*	11,5	24,0	46,5	22,5	11	14	44,0
2560TR18108	10/8	R 1/8*	8	25,5	44,0	18,5	11	16	44,0
2560TR14108		R 1/4*	11	25,5	46,5	21,0	11	16	48,0
2560TR38108		R 3/8*	11,5	25,5	48,0	22,5	11	16	50,0
2560TR12108		R 1/2*	14	28,5	56,5	28,0	17	16	80,0
2560TR381210	12/10	R 3/8*	11,5	30,0	54,5	24,5	14	18	70,0
2560TR121210		R 1/2*	14	30,5	58,5	28,0	17	18	86,0
2560TR1215125	15/12,5	R 1/2*	14	34,0	62,0	28,0	17	22	108,0



**2565**

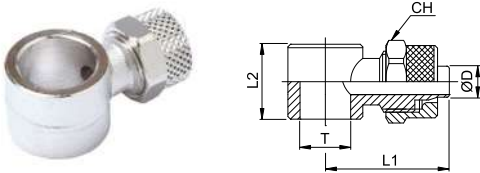
Union tee connector



CODE	ØD1	ØD2	L1	L2	CH1	CH2	g
2565TR427	4/2,7	4/2,7	40,6	20,3	8	8	16,0
2565TR53	5/3	5/3	43,0	21,5	8	8	16,0
2565TR64	6/4	6/4	45,0	22,5	8	12	32,0
2565TR86	8/6	8/6	45,0	22,5	10	14	42,0
2565TR8664		6/4	45,0	22,5	10	14	40,0
2565TR108	10/8	10/8	51,0	25,5	11	16	56,0
2565TR1210	12/10	12/10	60,0	30,0	14	18	78,0
2565TR15125	15/12,5	15/12,5	68,0	34,0	17	22	124,0

**2570**

Single banjo body

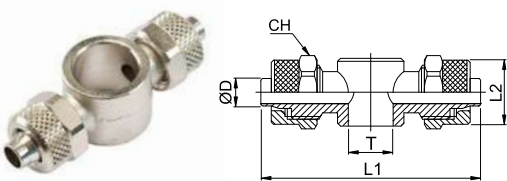


For use with 251V & 252V banjo stem

CODE	ØD	T	L1	L2	CH	g
2570TRM5427	4/2,7	M5	15,8	9,0	8	6,0
2570TRM6427		M6	15,8	9,0	8	6,0
2570TR18427		G 1/8"	21,3	14,5	8	15,0
2570TRM553	5/3	M5	17,0	9,0	8	8,0
2570TR1853		G 1/8"	22,5	14,5	8	14,0
2570TRM564	6/4	M5	18,0	9,0	9	8,0
2570TR1864		G 1/8"	24,0	14,5	12	20,0
2570TR1464		G 1/4"	26,0	14,5	12	24,0
2570TR1886	8/6	G 1/8"	24,0	14,5	14	22,0
2570TR1486		G 1/4"	26,0	14,5	14	26,0
2570TR14108		G 1/4"	27,5	14,5	16	30,0

**2575**

Double banjo body

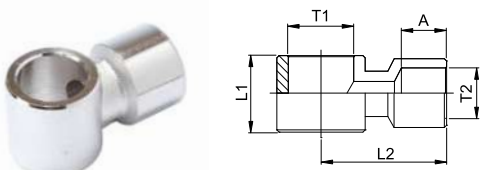


For use with 251V & 252V banjo stem

CODE	ØD	T	L1	L2	CH	g
2575TR18427	4/2,7	G 1/8"	42,6	14,5	8	19,0
2575TR1853	5/3	G 1/8"	45,0	14,5	8	20,0
2575TR1864	6/4	G 1/8"	48,0	14,5	12	30,0
2575TR1464		G 1/4"	52,0	14,5	12	34,0
2575TR1886	8/6	G 1/8"	48,0	14,5	14	32,0
2575TR1486		G 1/4"	52,0	14,5	14	38,0
2575TR14108	10/8	G 1/4"	55,0	14,5	16	44,0

**2580**

Female single banjo body BSPP thread



For use with 251V & 252V banjo stem

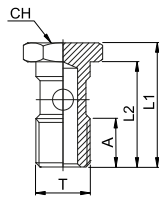
CODE	T1	T2	A	L1	L2	g
2580TR18	G 1/8"	G 1/8"	8,0	14,5	20,0	22,0
2580TR14	G 1/4"	G 1/4"	10,0	17,5	25,0	41,0





**251V**

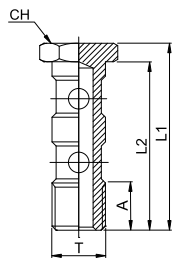
## Single banjo stem



CODE	T	A	L1	L2	CH	g
251VM5	M5	6	18,0	14,5	8	4,0
251VM6	M6	6	18,0	14,5	8	5,0
251V18	G 1/8"	8	27,0	23,0	14	14,0
251V14	G 1/4"	11	29,5	25,0	17	24,0

**252V**

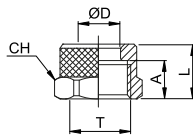
## Double banjo stem



CODE	T	A	L1	L2	CH	g
252V18	G 1/8"	8	43,0	39,0	14	18,0
252V14	G 1/4"	11	45,5	41,0	17	34,0

**2630**

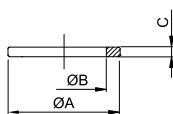
## Locking nut



CODE	ØD	T	A	L	CH	g
2630TRM605427	4/2,7	M6x0,5	6,0	8,1	8	1,50
2630TRM707553	5/3	M7x0,75	6,0	8,5	8	1,34
2630TRM807564	6/4	M8x0,75	6,5	9,0	9	1,51
2630TRM10164		M10x1	7,5	10,5	12	4,64
2630TRM12186	8/6	M12x1	7,5	10,5	14	5,57
2630TRM141108	10/8	M14x1	8,0	11,5	16	7,09
2630TRM1611210	12/10	M16x1	10,0	13,0	18	9,36
2630TRM20115125	15/12,5	M20x1	11,0	15,5	22	15,04

**2610**

## Nylon notched washer

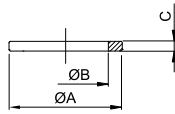


CODE	T	ØA	ØB	C	g
2610TRM5	M5	8,0	5,2	1,0	2,0
2610TR18	G 1/8"	14,0	10,0	1,5	26,0
2610TR14	G 1/4"	18,0	13,5	1,5	42,0
2610TR38	G 3/8"	21,0	16,8	2,0	28,0
2610TR12	G 1/2"	26,0	21,1	2,0	38,0



**2612**

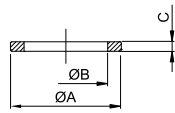
PVC washer



CODE	T	ØA	ØB	C	g
2612TR18	G 1/8"	14,0	10,0	1,5	18,0
2612TR14	G 1/4"	17,5	13,5	1,5	18,0
2612TR38	G 3/8"	21,0	16,7	1,5	18,0
2612TR12	G 1/2"	26,0	21,3	1,5	18,0

**2615**

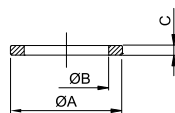
Nylon washer



CODE	T	ØA	ØB	C	g
2615TRM5	M5	8,5	5,0	1,5	4,0
2615TR18	G 1/8"	14,0	9,8	1,5	24,0
2615TR14	G 1/4"	18,0	13,2	1,5	40,0
2615TR38	G 3/8"	21,0	16,7	1,5	20,0
2615TR12	G 1/2"	26,0	21,1	2,0	38,0
2615TR34	G 3/4"	32,0	26,7	2,5	62,0

**2620**

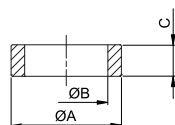
Aluminium washer



CODE	T	ØA	ØB	C	g
2620TR18	G 1/8"	14,0	10,0	1,5	58,0
2620TR14	G 1/4"	17,3	13,3	1,5	76,0
2620TR38	G 3/8"	21,0	16,9	1,5	46,0
2620TR12	G 1/2"	26,0	21,1	1,5	70,0

**2625**

Nylon spacer



CODE	T	ØA	ØB	C	g
2625TR18	1/8"	14,0	10,0	5,0	52,0
2625TR14	1/4"	17,5	13,2	5,0	66,0

For use with 251V & 252V banjo stem



# **PUSH-ON FITTINGS POLYPROPYLENE**



**PLUS**

**GREAT GRIPPING SYSTEM WITH THE  
LOCKING NUT**

**HIGH CHEMICAL RESISTANCE**

**EASY TO USE AND SUITABLE FOR  
VARIOUS APPLICATIONS**

**SUITABLE FOR FOOD AND WATER  
CONTACT**

**WIDE RANGE FOR METRIC TUBES  
(BLUE) AND FOR INCH TUBES (GREY)**





p. 142 / **2105**



p. 142 / **2110**



p. 142 / **2115**



p. 143 / **2130**



p. 143 / **2135**



p. 143 / **2140**



p. 143 / **2150**



p. 144 / **2155**



p. 144 / **2160**



p. 144 / **2165**



p. 144 / **2230**



p. 145 / **2105N**



p. 145 / **2110N**



p. 145 / **2115N**



p. 146 / **2135N**



p. 146 / **2140N**



p. 146 / **2155N**

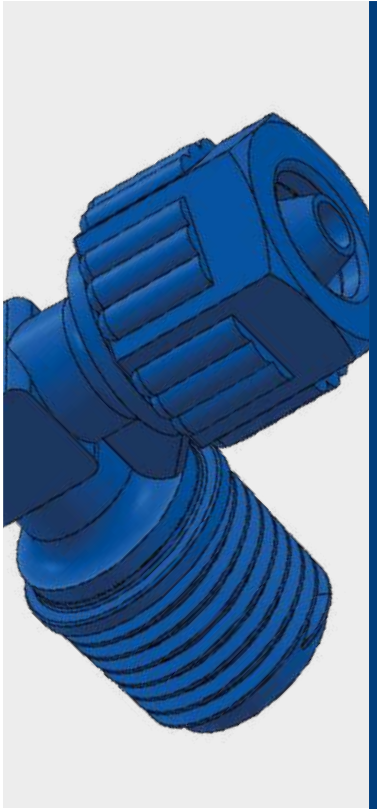


p. 147 / **2160N**



p. 147 / **2165N**





+4°C ÷ +90°C  
Subject to applications



Working pressure:  
14 Bar (at 20°C)



Compressed air, water and fluids suitable with construction materials



- Taper gas BSPT ISO 7 form R1/8" to R3/4"  
- NPT ANSI B 1.20.1 from N1/8" to N1/2"



Polyurethane, Polyethylene, Polyamide



Body: Fiber glass reinforced polypropylene  
Lock nut: Fiber glass reinforced polypropylene



Food contact materials EC 1935/2004



D.M. 174/2004



Products in compliance with EC Regulation 1907/2006

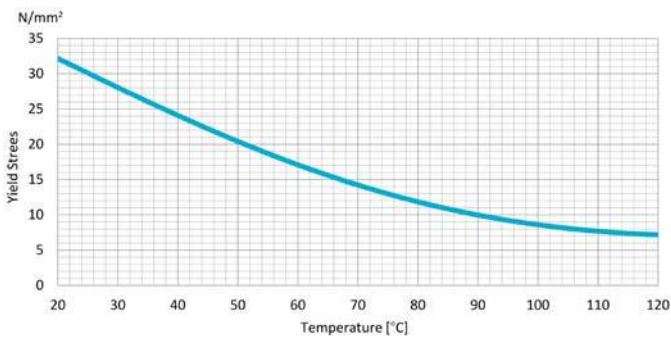


Products in compliance with the directive EU 2015/863

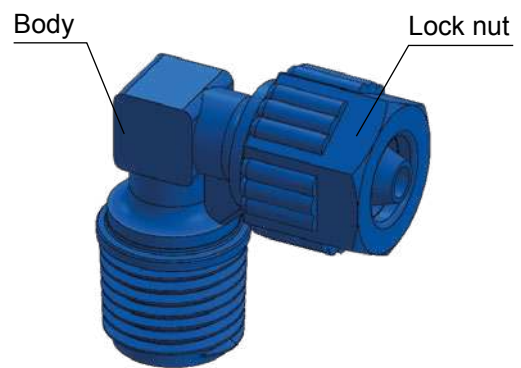
**FEATURES**

- The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.
- It is recommended to insert the tube to the end and tighten the nut before using.
- Cut the part of the tube attached to the fitting in order to reuse it.

**YIELD STRESS OF POLYPROPYLENE**



**CONSTRUCTION DETAILS**



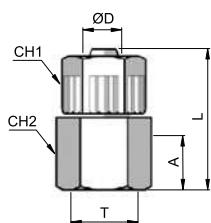
**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"	3/4"
Nm	0,01	0,3	1,3	2,7	5,4



**2105**

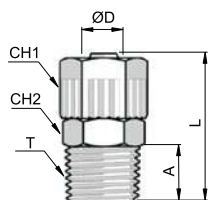
Female connector BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2105TR186	6/4	R 1/8"	10,0	26,3	14	14	3,0
2105TR146		R 1/4"	11,0	27,8	14	17	3,0
2105TR188	8/5,5	R 1/8"	9,5	26,3	14	14	3,0
2105TR148		R 1/4"	11,0	28,0	14	17	4,0
2105TR388		R 3/8"	11,2	30,6	14	22	5,0
2105TR128	10/7	R 1/2"	13,5	32,5	14	26	6,0
2105TR1410		R 1/4"	10,0	31,7	17	17	6,0
2105TR3810		R 3/8"	11,0	33,0	17	22	7,0
2105TR1210		R 1/2"	13,8	35,4	17	26	7,0

**2110**

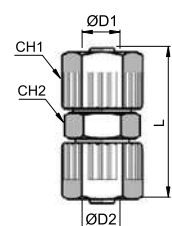
Male connector BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2110TR186	6/4	R 1/8"	8,0	27,5	14	13	3,0
2110TR146		R 1/4"	10,5	29,7	14	14	3,0
2110TR386		R 3/8"	10,5	32,5	14	17	4,5
2110TR126		R 1/2"	13,0	35,5	14	22	6,0
2110TR346		R 3/4"	9,0	36,6	14	27	8,0
2110TR188	8/5,5	R 1/8"	8,0	27,6	14	13	3,0
2110TR148		R 1/4"	10,5	29,5	14	14	3,0
2110TR388		R 3/8"	10,5	31,4	14	17	4,0
2110TR128		R 1/2"	13,0	36,1	14	22	5,0
2110TR348	R 3/4"	9,0	36,6	14	27	8,0	
2110TR1410	10/7	R 1/4"	10,5	35,8	17	17	4,0
2110TR3810		R 3/8"	10,5	35,8	17	17	5,0
2110TR1210		R 1/2"	12,0	38,9	17	22	6,0
2110TR3410		R 3/4"	13,0	39,7	17	27	6,0
2110TR1412	12/9	R 1/4"	10,5	37,3	19	14	6,0
2110TR3812		R 3/8"	10,5	37,3	19	17	7,0
2110TR1212		R 1/2"	12,5	40,1	19	22	7,0
2110TR3412		R 3/4"	13,0	40,1	19	27	8,0

**2115**

Union connector

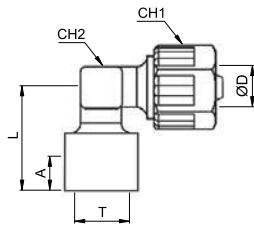


CODE	ØD1	ØD2	L	CH1	CH2	g
2115TR6	6/4	6/4	32,7	14	14	4,0
2115TR8	8/5,5	8/5,5	32,7	14	14	4,0
2115TR12	12/9	12/9	40,6	19	19	8,0
REDUCED UNION CONNECTOR						
2115TR86	8/5,5	6/4	32,7	14	14	4,0



**2130**

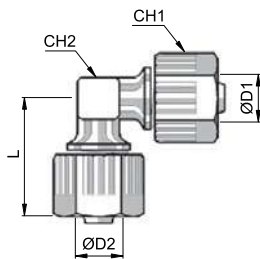
Female elbow BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2130TR186	6/4	R 1/8"	10,5	19,5	14	9	5,0
2130TR146		R 1/4"	12,3	22,5	14	9	5,0
2130TR148	8/5,5	R 1/4"	12,3	22,5	14	9	6,0

**2135**

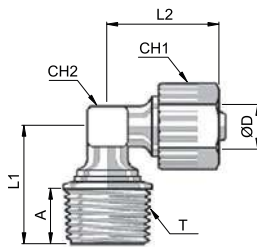
Union elbow



CODE	ØD1	ØD2	L	CH1	CH2	g
2135TR6	6/4	6/4	23,3	14	8	4,0
2135TR8	8/5,5	8/5,5	23,5	14	8	4,0
2135TR12	12/9	12/9	32,0	19	15	10,0
REDUCED UNION CONNECTOR						
2135TR86	8/5,5	6/4	23,3	14	8	4,4

**2140**

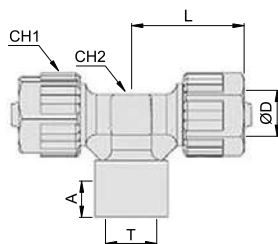
Male elbow BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
2140TR186	6/4	R 1/8"	8,0	18,5	22,5	14	8	2,0
2140TR146		R 1/4"	10,0	23,0	22,5	14	8	3,0
2140TR188	8/5,5	R 1/8"	8,5	18,5	23,0	14	8	3,0
2140TR148		R 1/4"	11,0	23,0	23,0	14	8	3,0
2140TR388	8/5,5	R 3/8"	11,0	23,5	23,0	14	8	5,0
2140TR1412		R 1/4"	10,0	24,0	33,0	19	15	7,0
2140TR3812	12/9	R 3/8"	10,0	24,5	33,0	19	15	6,0
2140TR1212		R 1/2"	13,0	28,5	33,0	19	15	9,0

**2150**

Female tee BSPT thread

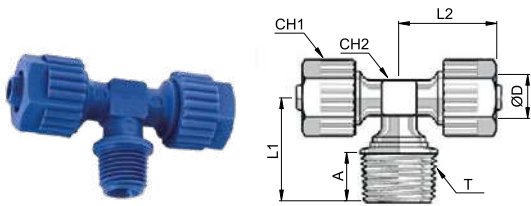


CODE	ØD	T	A	L	CH1	CH2	g
2150TR186	6/4	R 1/8"	10,2	23,3	14	8	5,82
2150TR148	8/5,5	R 1/4"	12,5	23,4	14	8	5,82



**2155**

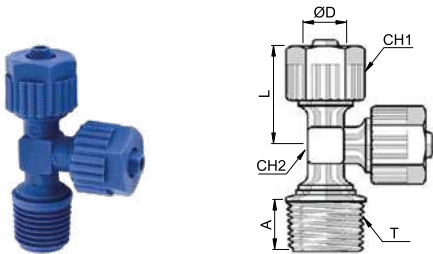
Male tee BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
2155TR186	6/4	R 1/8"	9,0	19,0	23,4	14	8	6,0
2155TR146		R 1/4"	11,0	21,0	23,4	14	8	6,0
2155TR188	8/5,5	R 1/8"	9,0	19,0	23,4	14	8	5,0
2155TR148		R 1/4"	11,0	21,0	23,4	14	8	6,0
2155TR388		R 3/8"	11,0	21,0	23,6	14	8	7,0
2155TR1412	12/9	R 1/4"	11,0	21,0	33,5	14	8	12,0
2155TR3812		R 3/8"	10,7	24,5	33,5	19	15	14,0
2155TR1212		R 1/2"	15,0	28,5	33,5	19	15	15,0

**2160**

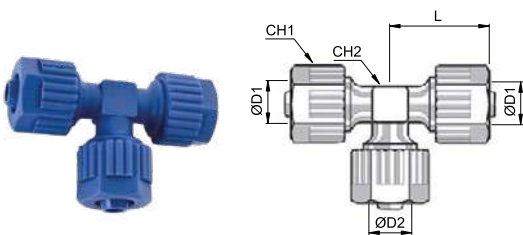
Lateral male tee BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2160TR186	6/4	R 1/8"	8,5	20,9	14	8	5,0
2160TR146		R 1/4"	11,0	23,1	14	8	5,0
2160TR188	8/5,5	R 1/8"	8,5	20,9	14	8	5,0
2160TR148		R 1/4"	11,0	23,1	14	8	5,0
2160TR388		R 3/8"	10,0	29,4	14	8	7,0
2160TR1412	12/9	R 1/4"	10,0	28,8	19	15	12,0
2160TR3812		R 3/8"	11,0	29,5	19	15	14,0
2160TR1212		R 1/2"	15,0	31,3	19	15	15,0

**2165**

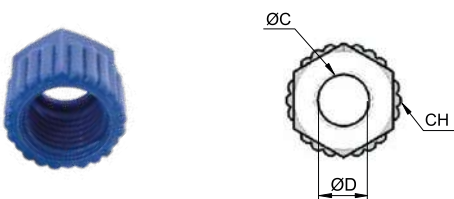
Union tee



CODE	ØD1	ØD2	L	CH1	CH2	g
2165TR6	6/4	6/4	23,4	14	8	7,0
2165TR8	8/5,5	8/5,5	23,4	14	8	5,0
2165TR12	12/9	12/9	33,55	19	14	14,0
REDUCED UNION TEE						
2165TR68	6/4	8/5,5	46,8	14	8	6,48
2165TR86	8/5,5	6/4	46,8	14	8	6,41

**2230**

Locking nut



CODE	ØD	ØC	CH	g
2230TR6BL	6/4	6,2	16	1,0
2230TR8BL	8/5,5	8,1	16	2,0
2230TR10BL	10/7	10,2	19	3,0
2230TR12BK	12/9	12,8	22	4,0

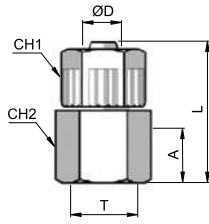
2230TR12BK: Black locking nut





**2105N**

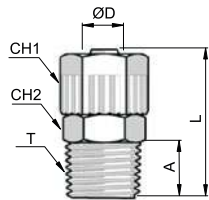
## Female connector NPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2105TRN1814	1/4	N 1/8"	13,0	26,3	16	14	3,0
2105TRN18516	5/16	N 1/8"	-	26,3	16	14	-
2105TRN14516		N 1/4"	-	32,1	16	17	-
2105TRN38516		N 3/8"	-	32,2	19	22	-
2105TRN12516		N 1/2"	-	37,5	22	27	-
2105TRN1438	3/8	N 1/4"	16,5	34,5	19	17	5,0
2105TRN3838		N 3/8"	16,7	34,5	19	22	6,5
2105TRN1238		N 1/2"	-	38,0	19	27	-

**2110N**

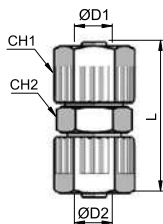
## Male connector NPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2110TRN1814	1/4	N 1/8"	8,5	29,4	14	11	2,56
2110TRN1414		N 1/4"	13	34,0	14	14	3,33
2110TRN1214		N 1/2"	18	40,2	14	22	6,76
2110TRN18516	5/16	N 1/8"	8,5	29,4	14	11	2,71
2110TRN14516		N 1/4"	13	34,0	14	14	3,07
2110TRN38516		N 3/8"	13	35,1	14	17	4,17
2110TRN1438	3/8	N 1/4"	13	37,6	17	14	4,39
2110TRN3838		N 3/8"	13	38,6	17	17	5,55
2110TRN1238		N 1/2"	18	43,7	17	22	7,63
2110TRN3438		N 3/4"	-	44,4	17	27	10,12
2110TRN1412	1/2	N 1/4"	13	38,8	19	14	5,11
2110TRN3812		N 3/8"	13	40	19	17	6,18
2110TRN1212		N 1/2"	18	45	19	22	8,34

**2115N**

## Union connector

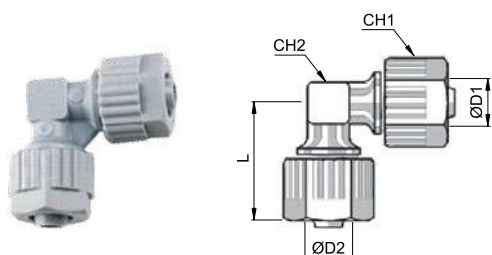


CODE	ØD1	ØD2	L	CH1	CH2	g
2115TRN14	1/4	1/4	32,5	14	14	4,14
2115TRN516	5/16	5/16	32,6	14	14	4,09
2115TRN12	1/2	1/2	40,4	19	19	8,26



**2135N**

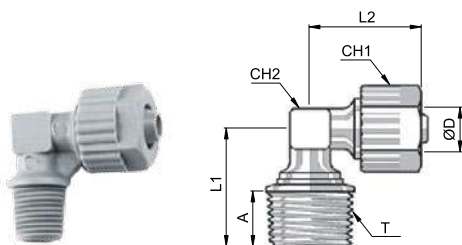
Union elbow connector



CODE	ØD1	ØD2	L	CH1	CH2	g
2135TRN14	1/4	1/4	23,3	14	8	4,48
2135TRN516	5/16	5/16	23,5	14	8	4,35

**2140N**

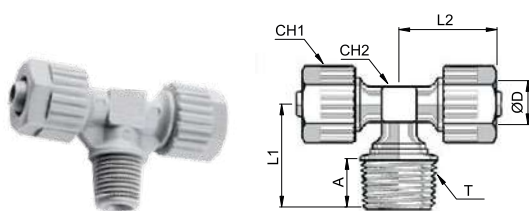
Male elbow NPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
2140TRN1814	1/4	N 1/8"	10	19,5	22,5	14	8	3,2
2140TRN1414		N 1/4"	12,5	23,3	22,5	14	8	3,83
2140TRN18516	5/16	N 1/8"	12,5	23,5	22,5	14	8	3,13
2140TRN14516		N 1/4"	10	19,5	22,5	14	8	3,81

**2155N**

Male tee NPT thread

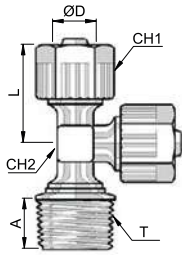


CODE	ØD	T	A	L1	L2	CH1	CH2	g
2155TRN1814	1/4	N 1/8"	10	20,3	23,4	14	8	5,25
2155TRN1414		N 1/4"	12,5	25	23,4	14	8	5,74
2155TRN18516	5/16	N 1/8"	10	20,3	23,4	14	8	5,17
2155TRN14516		N 1/4"	12,5	25	23,4	14	8	5,81
2155TRN3812	1/2	N 3/8"	14	30,2	33,5	19	15	13,06
2155TRN1212		N 1/2"	17,5	33	33,5	19	15	13,79



**2160N**

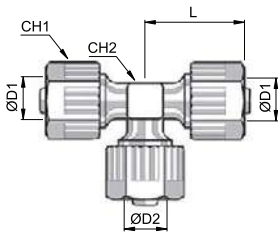
Lateral male tee NPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2160TRN1814	1/4	N 1/8"	-	21,7	14	8	5,28
2160TRN1414		N 1/4"	-	24,1	14	8	5,88
2160TRN18516	5/16	N 1/8"	10	21,7	14	8	5,04
2160TRN14516		N 1/4"	13,3	24,1	14	8	5,62

**2165N**

Union tee



CODE	ØD1	ØD2	L	CH1	CH2	g
2165TRN14	1/4	1/4	27,4	14	-	6,52
2165TRN516	5/16	5/16	27,4	14	-	6,29
2165TRN12	1/2	1/2	40,4	19	14	14,84





**PUSH-ON  
FITTINGS  
PVDF**



**PLUS**

**EXCELLENT CLAMPING SYSTEM  
WITH THE CLOSING NUT THAT  
GUARANTEES AN EXCELLENT GRIP  
BETWEEN FITTING AND TUBE**

**RESISTANT TO CONTACT WITH  
CHEMICALS AND CAN BE USED IN  
THE FOOD SECTOR**

**EXTREMELY SIMPLE TO USE  
FOLLOWING TECHNICAL  
INFORMATION**

**ENVIRONMENTALLY FRIENDLY AND  
NON-TOXIC**

**RESISTANT TO COSTANT HIGH  
LEVEL TEMPERATURES**

**OPTIMISATION OF INTERNAL STEPS  
WHICH GUARANTEE FULL FLUID  
PASSAGE**





p. 152 / **2900**



p. 152 / **2905**



p. 152 / **2910**



p. 153 / **2915**



p. 153 / **2930**



p. 153 / **2935**



p. 153 / **2940**



p. 154 / **2943**



p. 154 / **2950**



p. 154 / **2955**



p. 154 / **2960**



p. 155 / **2970**

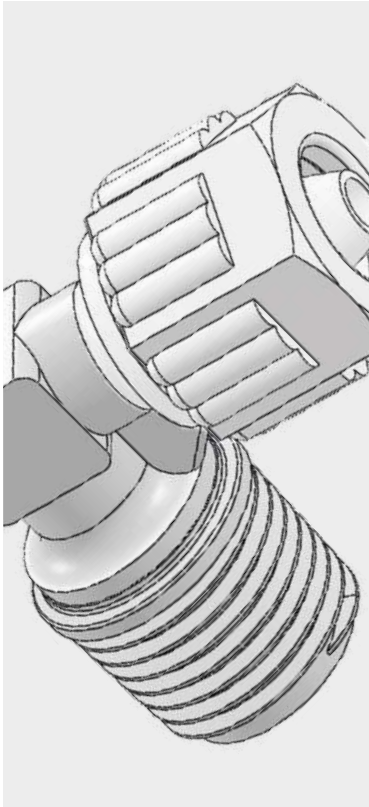



p. 155 / **2965**




p. 155 / **2230**







 -20°C ÷ +120°C  
Subject to applications

 **Working pressure:**  
14 Bar (at 20°C)

 Compressed air, water and fluids suitable with construction materials

 - Taper gas BSPT ISO 7 from R1/8" to R3/4"  
- Parallel gas BSPP ISO 228 G1/8" and G 1/4"

 Polyurethane, Polyethylene, Polyamide, PTFE, FEP

**Body:** Polyvinylidene fluoride (PVDF)  
**Lock nut:** Polypropylene  
**O-ring:** Silicone (2900)  
Viton (2943)

**AVAILABILITY:**

NPT threads with inch tube available on demand



Food contact materials  
EC 1935/2004



D.M. 174/2004



NSF 61 / NSF 372  
NSF certificate on behalf of Tefen Flow and Dosing Technologies Ltd.



Products in compliance with EC Regulation 1907/2006

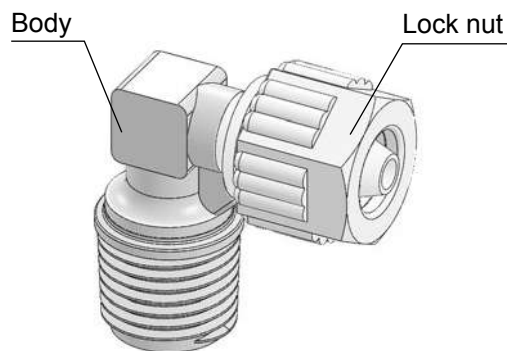


Products in compliance with the directive EU 2015/863

**FEATURES**

- The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.
- It is recommended to insert the tube to the end and tighten the nut before using.
- Cut the part of the tube attached to the fitting in order to reuse it.

**CONSTRUCTION DETAILS**



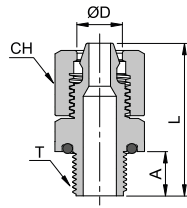
**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"	3/4"
Nm	0,1	1	4	8	16



**2900**

Male connector BSPP thread with o-ring

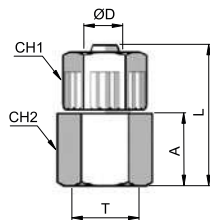


CODE	ØD	T	A	L	CH	g
2900TR186	6/4	G 1/8"	8,5	27,2	14	4,15
2900TR146		G 1/4"	8	30,9	14	5,4
2900TR188	8/5,5	G 1/8"	8,5	27,3	14	4,1
2900TR148		G 1/4"	8	31,1	14	6,0
2900TR1810	10/7	G 1/8"	8,5	27,2	17	6,0
2900TR1410		G 1/4"	8	31,0	17	6,5

The 2900 fitting is not certified EC 1935/2004 (Food contact materials) and D.M. 174/2004

**2905**

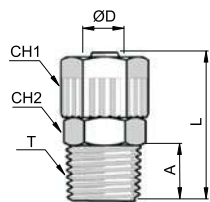
Female connector BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2905TR186	6/4	R 1/8"	10	26,3	14	14	3,0
2905TR146		R 1/4"	11	27,3	14	17	3,0
2905TR188	8/5,5	R 1/8"	9	26,3	14	14	3,0
2905TR148		R 1/4"	11	28,0	14	17	4,0
2905TR388		R 3/8"	11	30,6	14	22	5,0
2905TR128	10/7	R 1/2"	13,5	32,5	14	26	6,0
2905TR1410		R 1/4"	10	31,7	17	17	6,0
2905TR3810		R 3/8"	11	33,0	17	22	7,0
2905TR1210		R 1/2"	14	35,1	17	26	7,0

**2910**

Male connector BSPT thread



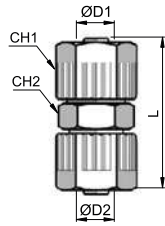
CODE	ØD	T	A	L	CH1	CH2	g
2910TR186	6/4	R 1/8"	8	27,5	14	13	3,0
2910TR146		R 1/4"	10,5	29,7	14	15	3,0
2910TR386		R 3/8"	10,5	32,5	14	17	6,5
2910TR126		R 1/2"	13	35,5	14	22	6,0
2910TR346		R 3/4"	9	35,5	14	27	8,0
2910TR188	8/5,5	R 1/8"	8	27,6	14	13	3,0
2910TR148		R 1/4"	10,5	29,5	14	15	3,0
2910TR388		R 3/8"	10,5	31,4	14	18	4,0
2910TR128		R 1/2"	13	36,1	14	22	5,0
2910TR348		R 3/4"	9	26,1	14	27	8,0
2910TR1410	10/7	R 1/4"	10,5	36,1	17	17	4,0
2910TR3810		R 3/8"	10,5	35,8	17	17	5,0
2910TR1210		R 1/2"	12	38,9	17	22	6,0
2910TR3410		R 3/4"	13	38,9	17	27	6,0
2910TR1412	12/9	R 1/4"	10,5	37,3	19	17	6,0
2910TR3812		R 3/8"	10,5	37,3	19	17	7,0
2910TR1212		R 1/2"	12,5	40,1	19	22	7,0
2910TR3412		R 3/4"	13	40,1	19	27	15,65





## 2915

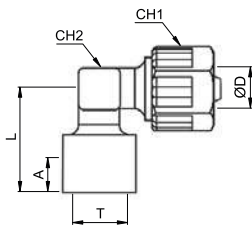
## Union connector



CODE	ØD1	ØD2	L	CH1	CH2	g
2915TR6	6/4	6/4	32,7	14	14	4,0
2915TR8	8/5,5	8/5,5	32,7	14	14	4,0
2915TR12	12/9	12/9	40,6	19	18	8,0
REDUCED UNION CONNECTOR						
2915TR86	8/5,5	6/4	32,7	14	14	4,0

## 2930

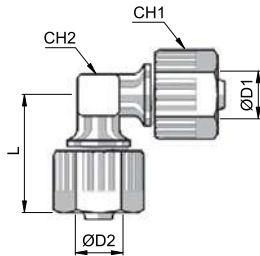
## Female elbow BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2930TR186	6/4	R 1/8"	10,5	19,5	14	9	5,0
2930TR146		R 1/4"	12,3	22,5	14	9	5,0
2930TR148	8/5,5	R 1/4"	12,3	22,5	14	9	6,0

## 2935

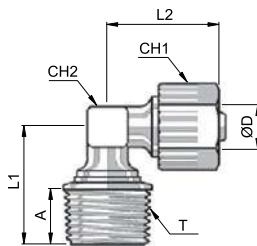
## Union elbow



CODE	ØD	L	CH1	CH2	g
2935TR6	6/4	23,3	14	8	4,0
2935TR8	8/5,5	23,5	14	8	4,0
2935TR12	12/9	32,0	19	15	10,0

## 2940

## Male elbow BSPT thread

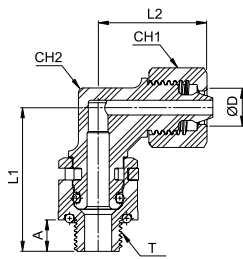


CODE	ØD	T	A	L1	L2	CH1	CH2	g
2940TR186	6/4	R 1/8"	8	18,5	22,5	14	8	2,0
2940TR146		R 1/4"	10	23,0	22,5	14	8	3,0
2940TR188	8/5,5	R 1/8"	8,5	18,5	23,0	14	8	3,0
2940TR148		R 1/4"	11	23,0	23,0	14	8	3,0
2940TR388		R 3/8"	11	23,5	23,0	14	8	5,0
2940TR1412	12/9	R 1/4"	10	24,0	33,0	19	15	7,0
2940TR3812		R 3/8"	10	24,5	33,0	19	15	6,0
2940TR1212		R 1/2"	13	28,5	33,0	19	15	9,0



**2943**

Swivel male elbow BSPP thread with o-ring

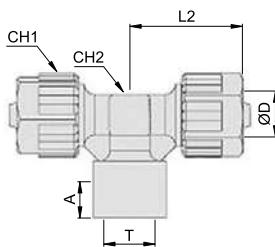


CODE	ØD	T	A	L1	L2	CH1	CH2	g
2943TR188	8/5,5	G 1/8"	8,5	33,2	27,3	16	8	9,5
2943TR148		G 1/4"	8	33,2	27,3	16	8	10,0

The 2943 fitting is not certified EC 1935/2004 (Food contact materials) and D.M. 174/2004

**2950**

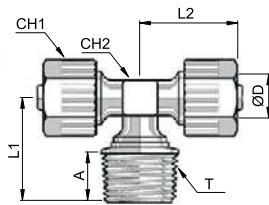
Female tee BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2950TR186	6/4	R 1/8"	10,2	23,3	14	8	8,15
2950TR148	8/5,5	R 1/4"	12,5	23,4	14	8	8,7

**2955**

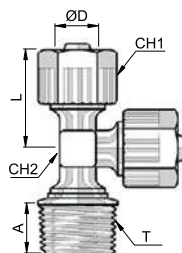
Male tee BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
2955TR186	6/4	R 1/8"	9	19,0	23,4	14	8	6,0
2955TR146		R 1/4"	11	21,0	23,4	14	8	6,0
2955TR188	8/5,5	R 1/8"	9	19,0	23,4	14	8	5,0
2955TR148		R 1/4"	11	21,0	23,4	14	8	6,0
2955TR388		R 3/8"	11	21,0	23,6	14	8	7,0
2955TR1412	12/9	R 1/4"	11	21,0	33,5	14	8	12,0
2955TR3812		R 3/8"	10,7	24,5	33,5	19	15	14,0
2955TR1212		R 1/2"	15	28,5	33,5	19	15	15,0

**2960**

Lateral male tee BSPT thread

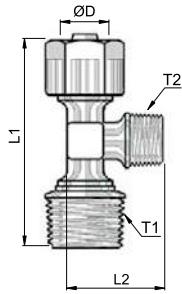


CODE	ØD	T	A	L	CH1	CH2	g
2960TR186	6/4	R 1/8"	8,5	20,9	14	8	5,0
2960TR146		R 1/4"	11	23,1	14	8	5,0
2960TR188	8/5,5	R 1/8"	8,5	20,9	14	8	5,0
2960TR148		R 1/4"	11	23,1	14	8	5,0
2960TR388		R 3/8"	10	29,4	14	8	7,0
2960TR1412	12/9	R 1/4"	10	28,8	19	15	12,0
2960TR3812		R 3/8"	11	31,2	19	15	14,0
2960TR1212		R 1/2"	15	31,3	19	15	15,0



## 2970

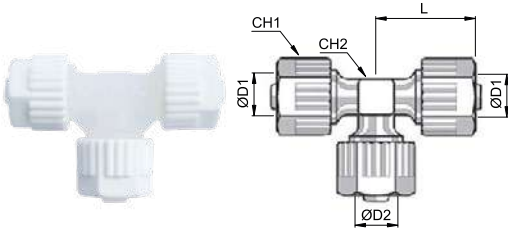
## Lateral male tee BSPT thread



CODE	ØD	T1	T2	L1	L2	g
2970TR148	8/5,5	R 1/4"	R 1/8"	46,2	22,6	7,15

## 2965

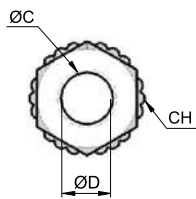
## Union tee



CODE	ØD1	ØD2	L	CH1	CH2	g
2965TR6	6/4	6/4	23,4	14	8	7,0
2965TR8	8/5,5	8/5,5	23,4	14	8	5,0
2965TR12	12/9	12/9	33,2	19	14	14,0
REDUCED UNION TEE						
2965TR68	8/5,5	6/4	23,4	14	8	9,0
2965TR86	6/4	8/5,5	23,4	14	8	8,7

## 2230

## Locking nut



CODE	ØD	ØC	CH	g
2230TR6W	6/4	6	14	1,0
2230TR8W	8/5,5	8	14	2,0





**PUSH-ON  
FITTINGS**  
STAINLESS STEEL  
AISI 316L



**PLUS**

**GREAT GRIPPING SYSTEM WITH  
THE LOCKING NUT AND WITHOUT  
SEALING ELEMENTS (EXCLUDING  
SWIVEL FITTINGS)**

**SUITABLE FOR POTABLE WATER  
AND FOOD FLUIDS CONTACT**

**EASY TO USE AND EXTREMELY  
RESISTANT IN CORROSIVE  
ENVIRONMENTS**

**FULL STAINLESS STEEL AISI 316L  
SUITABLE FOR THE CHEMICAL  
INDUSTRY**

**THANKS TO THE CONICAL GUIDE  
THEY ARE PARTICULARLY SUITABLE  
TO RESIST WITH EXTREME  
OPERATIONAL CONDITIONS**





p. 160 / **2700**



p. 160 / **2710**



p. 160 / **2720**



p. 161 / **2725**



p. 161 / **2730**



p. 161 / **2740**



p. 162 / **2745**



p. 162 / **2750**



p. 162 / **2760**



p. 162 / **2770**



p. 163 / **2780**

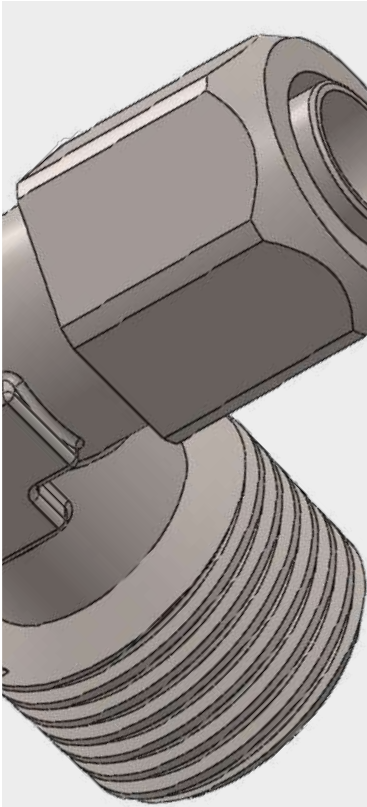



p. 163 / **2790**




p. 163 / **2612**







 - 40°C ÷ +140°C  
0°C ÷ +140°C swivel fittings

 **Working pressure:**  
25 Bar (at 20°C)  
16 Bar (at 20°C) swivel fittings

 Compressed air, potable water and fluids suitable with construction materials

 - Taper gas BSPT ISO 7 from R1/8" to R1/2"  
- Parallel gas BSPP ISO 228 from G1/8" to G 1/2"

 Polyethylene PE, PTFE, FEP

 **Body:** Stainless steel AISI 316L  
**Lock nut:** Stainless steel AISI 316L  
**O-ring:** FKM (swivel fittings)  
FDA compliant

 Food contact materials  
EC 1935/2004

 D.M. 174/2004



**SILICONE FREE**



Products in compliance with  
EC Regulation 1907/2006

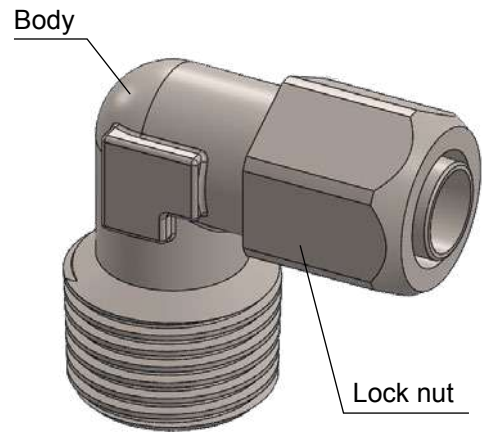


Products in compliance with  
the directive EU 2015/863

**TOLLERANCES - METRIC TUBE**

Ø TUBE (mm)	4	6	8	10	12
TOLLERANCE (mm)	± 0,1	± 0,1	± 0,1	± 0,1	± 0,15

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	6-9	12-15	16-20	18-22

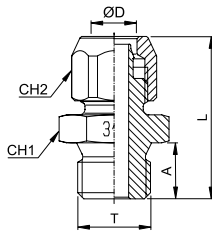
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	4-6	7-9	8-10	12-15



**2700**

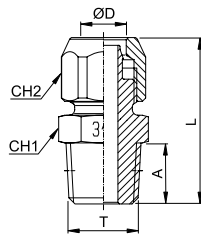
Male connector BSPP thread



CODE	ØD	T	A	L	CH1	CH2	g
2700TR1864	6/4	G 1/8"	8,0	18,5	13	12	15,0
2700TR1464		G 1/4"	10,0	19,0	17	12	24,0
2700TR1886	8/6	G 1/8"	8,0	18,5	13	14	18,0
2700TR1486		G 1/4"	10,0	19,0	17	14	27,0
2700TR18108	10/8	G 1/8"	8,0	20,0	14	17	28,0
2700TR14108		G 1/4"	10,0	20,5	17	17	33,0
2700TR38108		G 3/8"	10,0	20,5	19	17	40,5
2700TR381210	12/10	G 3/8"	10,0	22,0	19	19	44,0
2700TR121210		G 1/2"	12,0	22,5	24	19	47,0

**2710**

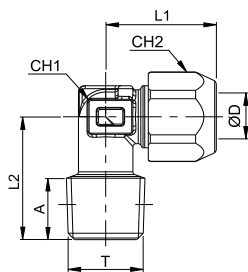
Male connector BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
2710TR1864	6/4	R 1/8"	7,5	26,0	12	12	19,0
2710TR1464		R 1/4"	11,0	30,0	14	12	22,0
2710TR1886	8/6	R 1/8"	7,5	26,0	12	14	17,0
2710TR1486		R 1/4"	11,0	30,0	14	14	25,0
2710TR18108	10/8	R 1/8"	7,5	27,5	14	17	28,0
2710TR14108		R 1/4"	11,0	31,5	14	17	30,5
2710TR38108		R 3/8"	11,5	32,0	17	17	41,0
2710TR381210	12/10	R 3/8"	11,5	33,5	17	19	44,0
2710TR121210		R 1/2"	14,0	36,5	22	19	44,0

**2720**

Male elbow BSPT thread



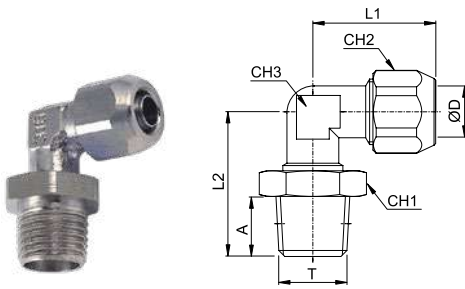
CODE	ØD	T	A	L1	L2	CH1	CH2	g
2720TR1864	6/4	R 1/8"	7,5	17,5	17,0	8	12	15,0
2720TR1464		R 1/4"	10,5	17,5	20,0	9	12	20,0
2720TR1886	8/6	R 1/8"	7,5	18,5	18,0	9	14	19,0
2720TR1486		R 1/4"	10,5	18,5	21,0	10	14	24,0
2720TR3886		R 3/8"	11	26,5	24,5	13	14	41,5
2720TR18108	10/8	R 1/8"	9,0	24,5	18,5	10	17	27,0
2720TR14108		R 1/4"	10,5	24,5	21,0	10	17	30,5
2720TR38108		R 3/8"	11,0	27,0	24,5	13	17	46,0
2720TR381210	12/10	R 3/8"	11,5	29,0	25,0	13	19	48,5
2720TR121210		R 1/2"	14,0	30,5	29,0	17	19	66,0





**2725**

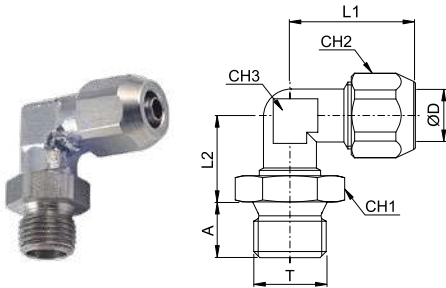
Swivel male elbow BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2725TR1864	6/4	R 1/8"	7,5	22,5	21,5	13	12	10	24,0
2725TR1464		R 1/4"	11,0	22,5	25,5	17	12	10	28,0
2725TR1886	8/6	R 1/8"	7,5	22,5	21,5	13	14	10	25,0
2725TR1486		R 1/4"	11,0	22,5	25,5	17	14	10	30,0
2725TR14108	10/8	R 1/4"	11,0	24,0	25,5	17	17	10	35,5

**2730**

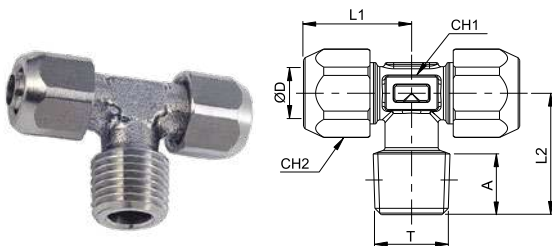
Swivel male elbow BSPP thread



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2730TR1864	6/4	G 1/8"	8,0	22,5	14,0	13	12	10	25,0
2730TR1464		G 1/4"	10,0	22,5	14,5	17	12	10	28,0
2730TR1886	8/6	G 1/8"	8,0	22,5	14,0	13	14	10	25,5
2730TR1486		G 1/4"	10,0	22,5	14,5	17	14	10	29,5
2730TR14108	10/8	G 1/4"	10,0	24,0	14,5	17	17	10	36,0

**2740**

Male tee BSPT thread

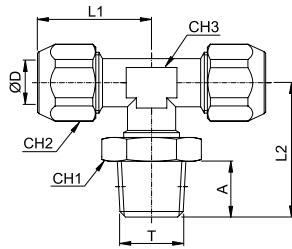


CODE	ØD	T	A	L1	L2	CH1	CH2	g
2740TR1864	6/4	R 1/8"	7,5	17,5	17,0	8	12	24,0
2740TR1464		R 1/4"	10,5	17,5	20,0	9	12	29,0
2740TR1886	8/6	R 1/8"	7,5	18,5	18,0	9	14	30,0
2740TR1486		R 1/4"	10,5	18,5	21,0	10	14	36,0
2740TR18108	10/8	R 1/8"	9,0	25,0	18,5	10	17	47,0
2740TR14108		R 1/4"	10,5	25,0	21,0	10	17	51,0
2740TR38108		R 3/8"	11,5	27,0	25,0	13	17	69,5
2740TR381210	12/10	R 3/8"	11,5	29,0	25,0	13	19	74,0
2740TR121210		R 1/2"	14,0	30,5	29,0	17	19	106,0



**2745**

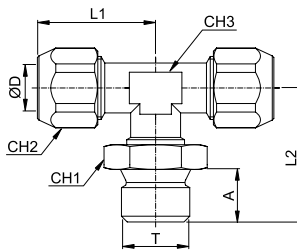
Swivel male tee BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2745TR1864	6/4	R 1/8"	7,5	22,5	21,5	13	12	10	35,5
2745TR1464		R 1/4"	11,0	22,5	25,5	17	12	10	39,5
2745TR1886	8/6	R 1/8"	7,5	22,5	21,5	13	14	10	37,5
2745TR1486		R 1/4"	11,0	22,5	25,5	17	14	10	42,0
2745TR14108	10/8	R 1/4"	11,0	24,0	25,5	17	17	10	53,0

**2750**

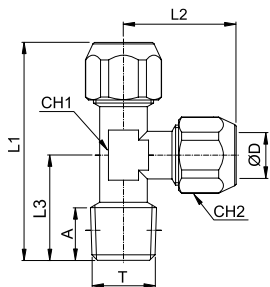
Swivel male tee BSPP thread



CODE	ØD	T	A	L1	L2	CH1	CH2	CH3	g
2750TR1864	6/4	G 1/8"	8,0	22,5	14,0	13	12	10	35,5
2750TR1464		G 1/4"	10,0	22,5	14,5	17	12	10	38,0
2750TR1886	8/6	G 1/8"	8,0	22,5	14,0	13	14	10	37,5
2750TR1486		G 1/4"	10,0	22,5	14,5	17	14	10	41,5
2750TR14108	10/8	G 1/4"	10,0	24,0	14,5	17	17	10	54,0

**2760**

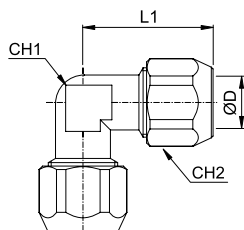
Lateral male tee BSPT thread



CODE	ØD	T	A	L1	L2	L3	CH1	CH2	g
2760TR1864	6/4	R 1/8"	9,0	41,0	22,5	18,5	10	12	30,0
2760TR1464		R 1/4"	10,5	43,5	22,5	21,0	10	12	33,0
2760TR1886	8/6	R 1/8"	9,0	41,0	22,5	18,5	10	14	32,0
2760TR1486		R 1/4"	10,5	43,5	22,5	21,0	10	14	35,0
2760TR18108	10/8	R 1/8"	9,0	43,5	25,0	18,5	10	17	45,0
2760TR14108		R 1/4"	10,5	46,0	25,0	21,0	10	17	55,5
2760TR38108		R 3/8"	11,5	52,0	27,0	25,0	13	17	68,0

**2770**

Union elbow

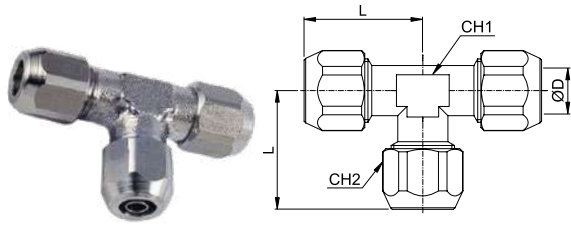


CODE	ØD	L	CH1	CH2	g
2770TR64	6/4	22,5	10	12	26,0
2770TR86	8/6	22,5	10	14	28,0
2770TR108	10/8	25,0	10	17	41,5
2770TR1210	12/10	29,0	13	19	60,0



**2780**

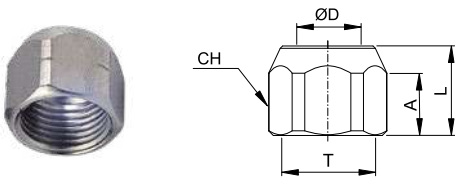
Union tee



CODE	ØD	L	CH1	CH2	g
2780TR64	6/4	22,5	10	12	37,0
2780TR86	8/6	22,5	10	14	39,0
2780TR108	10/8	25,0	10	17	61,0
2780TR1210	12/10	29,0	13	19	115,0

**2790**

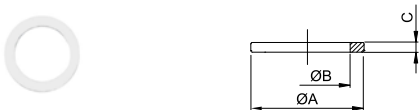
Locking nut



CODE	ØD	T	A	L	CH	g
2790TRM10164	6/4	M10x1	8,0	11,5	12	5,0
2790TRM12186	8/6	M12x1	8,0	11,5	14	6,0
2790TRM141108	10/8	M14x1	9,5	13,5	17	13,0
2790TRM1611210	12/10	M16x1	9,0	14,5	19	15,0

**2612**

PVC washer



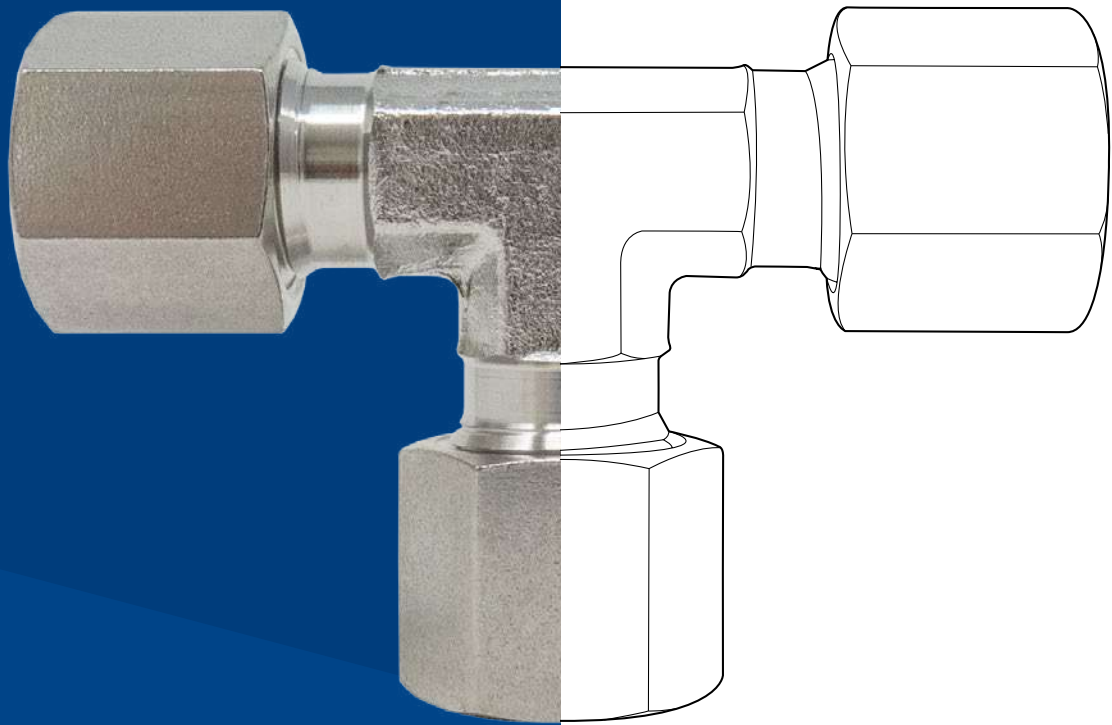
CODE	T	ØA	ØB	C	g
2612TR18	G 1/8"	14,0	10,0	1,5	18,0
2612TR14	G 1/4"	17,5	13,5	1,5	18,0
2612TR38	G 3/8"	21,0	16,7	1,5	18,0
2612TR12	G 1/2"	26,0	21,3	1,5	18,0

The 2612 PVC washer is not certified EC 1935/2004 (Food contact materials) and D.M. 174/2004





# COMPRESSION FITTINGS





p. 167

**YELLOW BRASS****Materials:** Yellow brass**Pressure:** from 60 to 100 Bar**Temperature:** from 0°C to 80°C**Range:** Ø4 - Ø28 / R1/8" to R1"  
Ø4 - Ø28 / G1/8" to G1"

p. 181

**NICKEL-PLATED BRASS****Materials:** Nickel-plated brass**Pressure:** 60 Bar**Temperature:** from -20°C to 80°C**Range:** Ø4 - Ø18 / R1/8" to R1/2"  
Ø4 - Ø18 / G1/8" to G1/2"**TECHNICAL INDEX**

p. 191

**STAINLESS STEEL AISI 316 DIN 2353****Materials:** Stainless steel AISI 316**Pressure:** 100 - 630 Bar**Temperature:** from -60°C to 400°C**Range:** Ø4 - Ø16 / R1/8" to R1/2"  
Ø6 - Ø16 / G1/8" to G3/4"

# COMPRESSION FITTINGS YELLOW BRASS

PLUS

**SUITABLE FOR MULTIPLE PNEUMATIC  
AND HYDRAILIC APPLICATIONS AT  
MEDIUM PRESSURE**

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**EXCELLENT HOLD ON THE TUBE  
THANKS TO THE GRIPPING OF THE  
FITTING ON THE TUBE**

---

**RESISTANT TO VIBRATIONS AND TO  
WATER HAMMERS**

---

**HIGH STRENGHT STRUCTURE TO  
GUARANTEE EXCELLENT DURABILITY  
OVER TIME WITH EXCELLENT  
PERFOMANCE**

---

Range from **Ø4 TO Ø28mm**





p. 170 / **3400**



p. 171 / **3422**



p. 171 / **3430**



p. 172 / **3440**



p. 172 / **3442**



p. 173 / **3460**



p. 173 / **3465**



p. 174 / **3480**



p. 174 / **3490**



p. 174 / **3500**



p. 175 / **3510**



p. 175 / **3520**



p. 175 / **3530**



p. 176 / **3540**



p. 176 / **3560**



p. 177 / **3572**



p. 177 / **3467**



p. 178 / **3468**



p. 178 / **ASR**



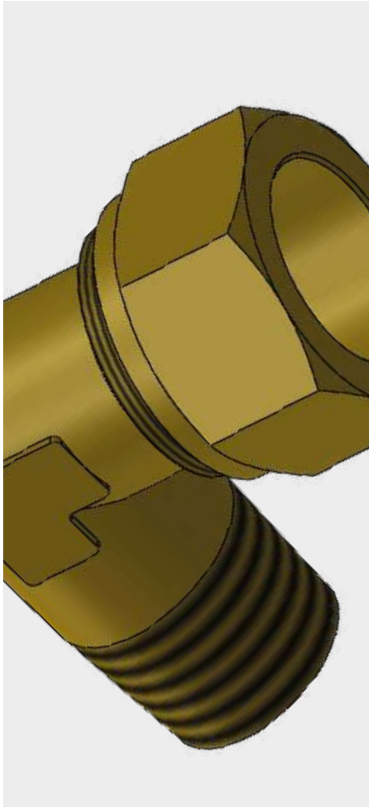
p. 179 / **ASR-HH**



p. 179 / **ASR-PU**







0°C ÷ +80°C

**Working pressure:**  
form 60 to 100 Bar



For each size, the pressure is a function of the tube quality, condition, thickness and maximum using temperature. Mechanical constraints reduce the level of pressure application.



Compressed air, water and fluids suitable with construction materials



- Taper gas BSPT ISO 7  
from R1/8" to R1"  
- Parallel gas BSPP ISO 228  
from G1/8" to G1"



**Metal tubes:** brass, copper  
**Plastic tubes:** push-lock hoses  
ASR, ASR-HH and ASR-PU used  
with fittings 3467 and 3468

**Body:** Turning - yellow brass  
UNI EN 12164 CW 614N

Hot forging & machining - yellow brass  
UNI EN12165 CW 617N



**Lock nut:** Yellow brass  
UNI EN 12164 CW 614N

**Ogive:** Yellow brass  
UNI EN 12164 CW 614N

**Seal:** Metal-nitrile



Products in compliance with  
EC Regulation 1907/2006

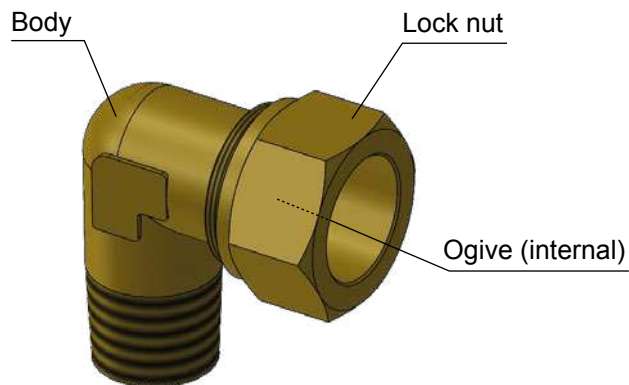


Products in compliance with  
the directive EU 2015/863

### ASSEMBLY INSTRUCTIONS FOR HARD TUBES

- Cut the tube and remove the internal and external burrs
- Insert the nut into the tube and lubricate the thread
- Assemble the ogive on the final part of the tube
- Push the tube into the fitting until it stops
- Thanks to the ogive grip it is possible to screw the lubricated nut until the tube is fixed

### CONSTRUCTION DETAILS



### TIGHTENING TORQUE

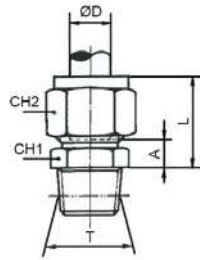
#### LOCK NUT FOR HARD TUBES

Ø TUBE	4	6	8	10	12	14	16	18	20	22	28
Nm	7,8	15,7	15,7	18,5	29,4	34,3	49	58,8	58,8	68,6	88,2



3400

Male connector BSPT thread

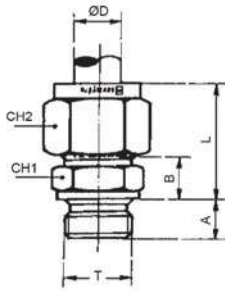


CODE	ØD	T	A	L	CH1	CH2	g
3400TR184	4	R 1/8"	7,0	17,0	10	10	13,0
3400TR144		R 1/4"	9,5	20,0	14	10	-
3400TR186	6	R 1/8"	7,5	18,0	11	13	18,0
3400TR146		R 1/4"	7,5	18,0	14	13	25,0
3400TR386		R 3/8"	8,5	19,0	17	13	-
3400TR188	8	R 1/8"	7,0	19,5	13	14	22,0
3400TR148		R 1/4"	7,0	19,5	14	14	27,0
3400TR388		R 3/8"	8,0	20,5	17	14	33,0
3400TR1810	10	R 1/8"	9,0	24,0	17	19	-
3400TR1410		R 1/4"	9,0	24,0	17	19	48,0
3400TR3810		R 3/8"	9,0	24,0	17	19	49,0
3400TR1210		R 1/2"	10,0	25,0	22	19	67,0
3400TR1412	12	R 1/4"	9,0	24,0	19	22	57,5
3400TR3812		R 3/8"	9,0	24,0	19	22	-
3400TR1212		R 1/2"	10,0	25,0	22	22	-
3400TR1414	14	R 1/4"	10,5	26,0	22	24	-
3400TR3814		R 3/8"	8,0	25,0	22	24	70,0
3400TR1214		R 1/2"	9,0	26,0	22	24	80,0
3400TR1216	16	R 1/2"	9,5	27,0	24	27	101,0
3400TR3416		R 3/4"	10,5	28,0	27	27	-
3400TR1218	18	R 1/2"	10,5	30,0	27	30	132,0
3400TR3418		R 3/4"	10,5	30,0	27	30	143,0
3400TR1220	20	R 1/2"	11,0	32,0	30	32	-
3400TR1222	22	R 1/2"	11,0	33,0	32	36	187,0
3400TR3422		R 3/4"	11,0	33,0	32	36	195,0
3400TR122		R 1"	11,0	33,0	36	36	225,0



## 3422

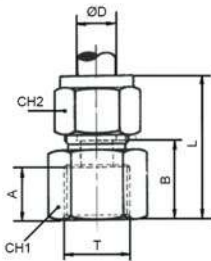
## Male connector BSPP thread with seal



CODE	ØD	T	A	B	L	CH1	CH2	g
3422TR184	4	G 1/8"	6,5	8,0	16,5	13	10	-
3422TR186	6	G 1/8"	6,5	8,5	18,0	13	13	-
3422TR146		G 1/4"	8,0	9,5	18,0	17	13	-
3422TR188	8	G 1/8"	6,5	8,5	19,0	13	14	-
3422TR148		G 1/4"	8,0	9,0	19,5	17	14	-
3422TR388		G 3/8"	10,8	11,0	24,5	22	14	-
3422TR1410	10	G 1/4"	8,0	11,0	24,0	17	19	47,5
3422TR3810		G 3/8"	11,0	11,5	24,0	22	19	65,5
3422TR1412	12	G 1/4"	8,0	11,0	24,0	19	22	59,5
3422TR3814	14	G 3/8"	11,0	10,5	25,0	22	24	-
3422TR1214		G 1/2"	12,0	11,0	25,0	27	24	97,0
3422TR3816	16	G 3/8"	11,0	12,0	27,0	22	27	-
3422TR1216		G 1/2"	12,0	12,5	27,0	27	27	-
3422TR1218	18	G 3/8"	12,0	12,5	29,5	27	30	-
3422TR3418		G 3/4"	13,0	13,0	29,5	32	30	-
3422TR3422	22	G 3/4"	13,0	13,0	32,0	32	36	-
3422TR122		G 1"	15,0	13,5	32,0	41	36	-

## 3430

## Female connector BSPP thread

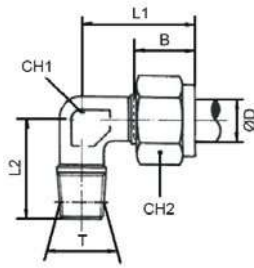


CODE	ØD	T	A	B	L	CH1	CH2	g
3430TR184	4	G 1/8"	9,5	16,5	26	14	10	-
3430TR144		G 1/4"	13,5	20,5	30	17	10	-
3430TR186	6	G 1/8"	9,5	17,0	28	14	13	26,0
3430TR146		G 1/4"	13,5	21,0	32	17	13	35,0
3430TR188	8	G 1/8"	9,5	16,5	29	14	14	28,0
3430TR148		G 1/4"	13,5	20,5	33	17	14	36,0
3430TR388		G 3/8"	14,0	21,0	34	22	14	53,0
3430TR1410	10	G 1/4"	13,5	21,5	37	17	19	52,0
3430TR3810		G 3/8"	14,0	22,0	37	22	19	70,0
3430TR1210		G 1/2"	18,5	26,5	42	27	19	102,0
3430TR3814	14	G 3/8"	14,0	21,0	38	22	24	82,0
3430TR1214		G 1/2"	18,5	25,5	43	27	24	113,0
3430TR1216	16	G 1/2"	18,5	26,0	44	27	27	-
3430TR1218	18	G 1/2"	18,5	26,0	45	27	30	147,0
3430TR3418		G 3/4"	19,5	27,0	46	32	30	169,0
3430TR3422	22	G 3/4"	19,5	26,5	48	32	36	205,0



3440

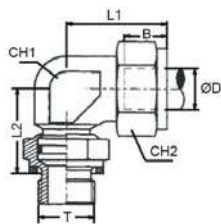
Male elbow BSPT thread



CODE	ØD	T	B	L1	L2	CH1	CH2	g
3440TR184	4	R 1/8"	12,0	19,0	17,0	8	10	-
3440TR144		R 1/4"	12,0	19,0	20,0	10	10	-
3440TR186	6	R 1/8"	13,0	22,0	18,0	8	13	22,0
3440TR146		R 1/4"	13,0	22,0	21,5	10	13	31,0
3440TR188	8	R 1/8"	15,0	28,0	18,5	10	14	29,0
3440TR148		R 1/4"	15,0	28,0	22,0	10	14	34,0
3440TR388		R 3/8"	15,0	28,0	24,0	12	14	45,0
3440TR1410	10	R 1/4"	17,0	30,0	25,0	12	19	53,0
3440TR3810		R 3/8"	17,0	30,0	25,5	12	19	62,0
3440TR1210		R 1/2"	17,0	36,0	32,0	19	19	107,0
3440TR1412	12	R 1/4"	18,0	30,0	26,0	15	22	-
3440TR3812		R 3/8"	18,0	30,0	27,0	15	22	-
3440TR1212		R 1/2"	18,0	36,0	32,0	19	22	-
3440TR3814	14	R 3/8"	18,0	35,0	30,0	19	24	105,0
3440TR1214		R 1/2"	18,0	35,0	32,0	19	24	109,0
3440TR3816		R 3/8"	21,0	39,0	30,0	19	27	-
3440TR1216	16	R 1/2"	21,0	39,0	33,5	19	27	135,0
3440TR3416		R 3/4"	21,0	41,0	36,5	23	27	-
3440TR1218	18	R 1/2"	21,5	41,0	35,5	23	30	176,0
3440TR3418		R 3/4"	21,5	41,0	36,5	23	30	203,0
3440TR3420	20	R 3/4"	21,5	42,0	38,0	23	32	-
3440TR3422	22	R 3/4"	25,0	50,0	40,0	27	36	296,0
3440TR122		R 1"	25,0	50,0	44,0	27	36	324,0

3442

Swivel male elbow BSPP thread with seal

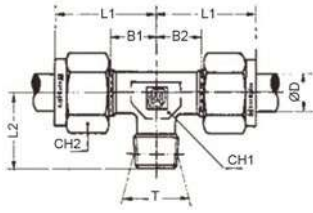


CODE	ØD	T	B	L1	L2	CH1	CH2	g
3442TR184	4	G 1/8"	12,0	19,0	16,0	8	10	21,5
3442TR144		G 1/4"	12,0	19,0	22,0	10	10	-
3442TR186	6	G 1/8"	13,0	22,0	16,0	8	13	23,0
3442TR146		G 1/4"	13,0	22,0	22,0	10	13	31,0
3442TR188	8	G 1/8"	15,0	28,0	18,5	10	14	29,0
3442TR148		G 1/4"	15,0	28,0	22,0	10	14	34,0
3442TR388		G 3/8"	15,0	28,0	24,0	12	14	43,0
3442TR1410	10	G 1/4"	17,0	30,0	22,0	12	19	53,0
3442TR3810		G 3/8"	17,0	30,0	24,0	12	19	64,0
3442TR1210		G 1/2"	17,0	30,0	29,5	19	19	102,0
3442TR3814	14	G 3/8"	18,0	35,0	25,0	19	24	105,0
3442TR1214		G 1/2"	18,0	35,0	29,5	19	24	108,0
3442TR1218	18	G 1/2"	21,0	41,0	30,5	23	30	174,0
3442TR3418		G 3/4"	21,5	41,0	32,8	23	30	202,0
3442TR122	22	G 1"	25,0	50,0	43,5	27	36	323,0
3442TR128	28	G 1"	30,0	54,0	43,5	32	42	-



## 3460

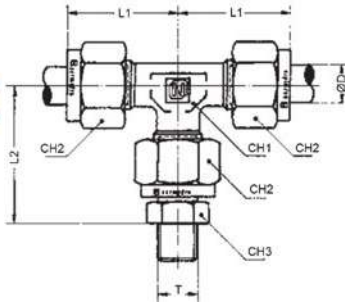
## Male tee BSPT thread



CODE	ØD	T	B1	B2	L1	L2	CH1	CH2	g
3460TR184	4	R 1/8"	9,5	9,5	19,0	17,0	8	10	-
3460TR185	5	R 1/8"	11,0	11,0	21,0	17,5	8	12	-
3460TR186	6	R 1/8"	11,0	11,0	22,0	18,0	8	13	-
3460TR146		R 1/4"	16,0	16,0	27,0	21,5	10	13	-
3460TR188	8	R 1/8"	15,0	15,0	28,0	18,5	10	14	-
3460TR148		R 1/4"	15,0	15,0	28,0	22,0	10	14	-
3460TR1410	10	R 1/4"	14,5	14,5	30,0	25,0	12	19	-
3460TR3810		R 3/8"	14,5	14,5	30,0	25,5	12	19	-
3460TR3812	12	R 3/8"	15,0	15,0	30,0	27,0	15	22	-
3460TR3814	14	R 3/8"	18,0	18,0	35,0	30,0	19	24	-
3460TR1214		R 1/2"	18,0	18,0	35,0	32,0	19	24	-
3460TR3815	15	R 3/8"	18,0	18,0	35,0	30,0	19	24	-
3460TR1215		R 1/2"	18,0	18,0	35,0	32,0	19	24	-
3460TR3816	16	R 3/8"	21,0	21,0	39,0	30,0	19	27	-
3460TR1216		R 1/2"	21,0	21,0	39,0	33,5	19	27	-

## 3465

## Swivel male tee BSPP thread

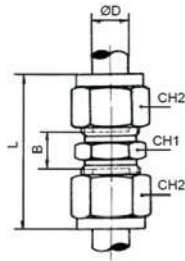


CODE	ØD	T	L1	L2	CH1	CH2	CH3	g
3465TR184	4	G 1/8"	19,0	25,0	8	10	13	-
3465TR144		G 1/4"	19,0	27,0	8	10	17	-
3465TR186	6	G 1/8"	22,0	28,0	8	13	13	-
3465TR146		G 1/4"	22,0	30,0	8	13	17	-
3465TR188	8	G 1/8"	28,0	34,0	10	14	13	-
3465TR148		G 1/4"	28,0	36,0	10	14	17	-
3465TR1410	10	G 1/4"	30,0	38,0	12	19	17	-
3465TR3810		G 3/8"	30,0	38,5	12	19	22	-
3465TR3814	14	G 3/8"	35,0	43,5	19	24	22	-
3465TR1214		G 1/2"	35,0	44,5	19	24	27	-
3465TR1218	18	G 1/2"	41,0	50,5	23	30	27	-
3465TR3418		G 3/4"	41,0	51,5	23	30	32	-
3465TR3422	22	G 3/4"	50,0	60,5	27	36	32	-
3465TR122		G 1"	50,0	61,0	27	36	41	-
3465TR128	28	G 1"	55,0	66,0	32	42	41	-



3480

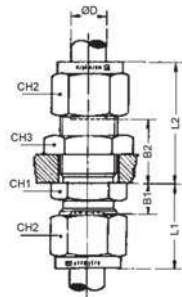
Union connector



CODE	ØD	B	L	CH1	CH2	g
3480TR4	4	10,0	28,0	10	10	-
3480TR6	6	11,0	32,0	11	13	19,0
3480TR8	8	10,0	36,0	13	14	28,0
3480TR10	10	13,0	42,0	17	19	69,0
3480TR12	12	13,0	42,0	19	22	-
3480TR14	14	11,0	45,0	22	24	151,0
3480TR16	16	13,0	48,0	24	27	180,0
3480TR18	18	14,0	53,0	27	30	201,0
3480TR22	22	14,0	60,0	32	36	225,0
3480TR28	28	14,0	64,0	42	41	-

3490

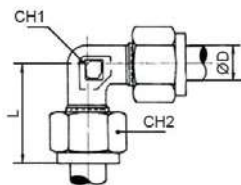
Bulkhead connector



CODE	ØD	T	B1	B2	L1	L2	CH1	CH2	CH3	g
3490TR4	4	M8x1	7,0	17,0	17,0	27,0	10	10	13	-
3490TR6	6	M10x1	7,5	17,5	19,0	28,0	13	13	14	-
3490TR8	8	M12x1	7,0	17,0	20,0	29,0	14	14	17	-
3490TR10	10	M16x1,5	9,0	19,0	25,0	33,0	19	19	22	-
3490TR12	12	M18x1,5	9,0	19,0	25,0	33,0	22	22	22	-
3490TR14	14	M20x1,5	8,0	18,0	25,0	35,0	24	24	24	-
3490TR18	18	M24x1,5	10,5	20,5	30,0	40,0	27	30	30	-
3490TR22	22	M30x1,5	11,0	21,0	32,0	42,0	36	36	36	-
3490TR28	28	M36x1,5	19,0	30,0	40,0	52,0	42	42	42	-

3500

Union elbow

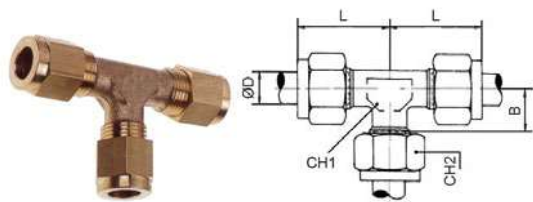


CODE	ØD	L	CH1	CH2	g
3500TR4	4	19,0	5	10	-
3500TR6	6	22,0	8	13	26,0
3500TR8	8	28,0	10	14	34,0
3500TR10	10	30,0	12	19	74,0
3500TR12	12	30,0	15	22	-
3500TR14	14	35,0	19	24	156,0
3500TR16	16	39,0	19	27	190,0
3500TR18	18	41,0	23	30	232,0
3500TR20	20	42,0	23	32	-
3500TR22	22	50,0	27	36	254,0



## 3510

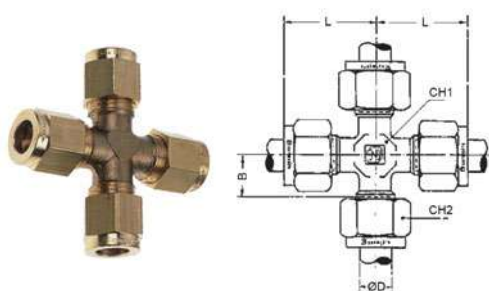
## Union tee



CODE	ØD	B	L	CH1	CH2	g
3510TR4	4	9,5	19,0	8	10	-
3510TR6	6	11,0	22,0	8	13	33,0
3510TR8	8	15,0	28,0	10	14	45,0
3510TR10	10	14,5	30,0	12	19	105,0
3510TR12	12	15,0	30,0	15	22	-
3510TR14	14	18,0	35,0	19	24	230,0
3510TR16	16	21,0	39,0	19	27	275,0
3510TR18	18	21,5	41,0	23	30	333,0
3510TR20	20	21,5	42,0	23	32	-
3510TR22	22	29,0	50,0	27	36	364,0
3510TR28	28	30,0	55,0	32	42	-

## 3520

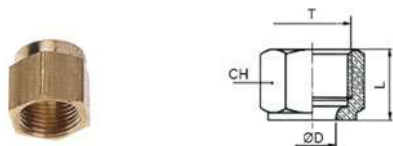
## Union cross



CODE	ØD	B	L	CH1	CH2	g
3520TR6	6	11,0	22,0	8	12	-
3520TR8	8	15,0	28,0	11	14	-
3520TR10	10	15,0	30,0	14	19	-
3520TR12	12	15,0	30,0	15	22	-
3520TR14	14	18,0	35,0	20	24	-
3520TR16	16	21,0	39,0	20	27	-
3520TR18	18	21,5	41,0	25	30	-
3520TR20	20	21,5	42,0	25	32	-
3520TR22	22	29,0	50,0	27	36	-

## 3530

## Locking nut

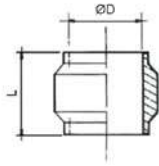


CODE	ØD	T	L	CH	g
3530TR4	4	M8X1	11,0	10	-
3530TR6	6	M10X1	11,0	13	5,4
3530TR8	8	M12X1	13,0	14	7,0
3530TR10	10	M16X1,5	15,0	19	18,2
3530TR12	12	M18X1,5	15,0	22	-
3530TR14	14	M20X1,5	15,0	24	44,3
3530TR16	16	M22X1,5	17,0	27	55,6
3530TR18	18	M24X1,5	18,0	30	64,2
3530TR20	20	M27X1,5	18,0	32	-
3530TR22	22	M30X1,5	19,0	36	76,3
3530TR28	28	M36X1,5	21,0	42	-



**3540**

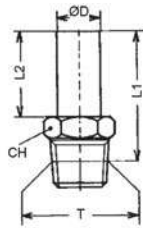
Ogive



CODE	ØD	L	g
3540TR4	4	6,0	-
3540TR6	6	6,5	0,82
3540TR8	8	7,0	1,12
3540TR10	10	8,0	3,30
3540TR12	12	8,0	4,0
3540TR14	14	8,5	4,42
3540TR16	16	9,0	5,00
3540TR18	18	9,5	5,90
3540TR20	20	11,0	-
3540TR22	22	11,0	7,10
3540TR28	28	12,0	-

**3560**

Male adapter BSPT thread



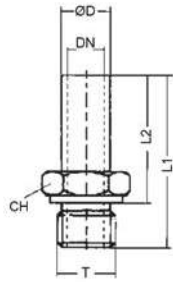
CODE	ØD	T	L1	L2	CH	g
3560TR186	6	R 1/8"	26,5	15	11	8,0
3560TR146		R 1/4"	31	15	14	-
3560TR188	8	R 1/8"	28,5	17	11	-
3560TR148		R 1/4"	33	17	14	-
3560TR388		R 3/8"	33,7	17	17	-
3560TR1410	10	R 1/4"	36	20	14	-
3560TR3810		R 3/8"	36,5	20	17	-
3560TR1210		R 1/2"	41	20	22	-
3560TR1412	12	R 1/4"	36	20	14	-
3560TR3812		R 3/8"	36,5	20	17	-
3560TR1212		R 1/2"	41	20	22	-
3560TR3814	14	R 3/8"	38	21,5	17	-
3560TR1214		R 1/2"	42,5	21,5	22	-
3560TR1216	16	R 1/2"	44	23	22	-
3560TR1218	18	R 1/2"	44,5	23,5	22	-
3560TR3418		R 3/4"	47,5	23,5	27	-
3560TR3422		22	R 3/4"	48,5	25,5	27





## 3572

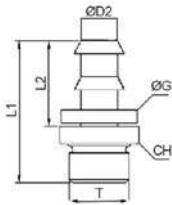
## Male adapter BSPP thread



CODE	ØD	T	DN	L1	L2	CH	g
3572TR184	4	G 1/8"	2	25,5	19	13	-
3572TR186	6	G 1/8"	4	26,5	20	13	-
3572TR146		G 1/4"	4	30	22	17	22,0
3572TR188	8	G 1/8"	6	28,5	22	13	-
3572TR1410	10	G 1/4"	8	35	27	17	-
3572TR3810		G 3/8"	8	38,5	27,5	22	-
3572TR1210		G 1/2"	8	40,5	28,5	27	-
3572TR3814	14	G 3/8"	11	40	29	22	-
3572TR1214		G 1/2"	12	42	30	27	-
3572TR1218	18	G 1/2"	14	44	32	27	-
3572TR3418		G 3/4"	16	46	33	32	-
3572TR3422	22	G 3/4"	20	48	35	32	-
3572TR122		G 1"	20	50,5	35,5	41	-
3572TR128	28	G 1"	25	55	40	41	-

## 3467

## Male barb connector BSPP thread with metal-nitrile composite gasket



CODE	DN	T	ØD2	L1	L2	ØG	CH	g	
3467TR1814	1/4"	6	G 1/8"	4,0	31,5	20,0	14,0	13	14,0
3467TR1438	3/8"	10	G 1/4"	7,5	39,1	24,1	17,0	17	27,0
3467TR3838	3/8"	10	G 3/8"	7,5	42,5	24,1	17,0	22	47,0
3467TR3812	1/2"	13	G 3/8"	10,0	46,5	28,0	20,5	22	48,0
3467TR1212	1/2"	13	G 1/2"	10,0	48,5	28,0	20,5	27	79,0
3467TR1258	5/8"	16	G 1/2"	13,5	56,5	36,5	24,0	27	73,0
3467TR3434	3/4"	20	G 3/4"	16,0	65,3	43,0	27,0	32	123,0

3467: For use with our ASR, ASR-HH and ASR-PU tubes

## 2605

## Metal-nitrile composite gasket

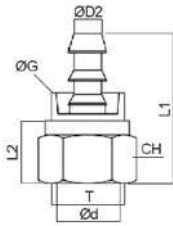


CODE	2605TR18	2605TR14	2605TR38	2605TR12	2605TR34	2605TR1
THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"



**3468**

Swivel female barb connector metric thread



CODE	DN	T	ØD2	Ød	L1	L2	ØG	CH	g	
3468TRM1014	1/4"	6	M10x1	4,0	6	33,5	11,0	14,0	13	17,0
3468TRM1214	1/4"	6	M12x1	4,8	8	34,5	13,0	14,0	14	18,0
3468TRM1614	1/4"	6	M16x1,5	4,8	10	35,8	15,0	14,0	19	33,0
3468TRM1638	3/8"	10	M16x1,5	7,5	10	39,3	15,0	17,0	19	35,0
3468TRM2038	3/8"	10	M20x1,5	7,5	14	39,3	15,0	17,0	24	52,0
3468TRM2012	1/2"	13	M20x1,5	10,0	14	44,0	15,0	20,5	24	56,0
3468TRM2212	1/2"	13	M22x1,5	10,0	16	45,0	17,0	20,5	27	77,0
3468TRM2412	1/2"	13	M24x1,5	10,0	18	47,0	18,0	20,5	30	99,0
3468TRM2458	5/8"	16	M24x1,5	13,5	18	55,0	18,0	24,0	30	97,0
3468TRM3034	3/4"	20	M30x1,5	16,0	22	62,0	18,5	27,0	36	137,0
3468TRM361	1"	25	M36x1,5	22,0	28	71,3	21,0	36,5	42	249,0

The barb connector 3468 can be combined with our yellow brass compression fittings range.

Refer to Ød in order to chose the right combination.

**3468:** For use with our ASR, ASR-HH and ASR-PU tubes

**ASR**

Push-lock hose ASR



CODE	DN	ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	MAX WORKING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (m)
ASR06	1/4"	6	6,5 <sup>+0,4</sup> <sub>-0,3</sub>	12,0 - 13,0	45	16	140
ASR10	3/8"	10	9,7 ±0,4	14,8 - 16,0	75	16	170
ASR13	1/2"	13	13,0 ±0,5	18,5 - 20,0	90	16	260
ASR16	5/8"	16	16,0 <sup>+0,7</sup> <sub>-0,3</sub>	23,4 - 25,0	115	16	340
ASR20	3/4"	20	19,3 ±0,5	26,0 - 28,0	135	16	420
ASR25	1"	25	25,6 ±0,5	34,0 - 36,0	165	16	640

\* Blue, Red and Green: available on demand and min. quantity

DN	Black	* Blue	* Red	* Green
1/4" 6	ASR06NE	ASR06BL	ASR06RO	ASR06VD
3/8" 10	ASR10NE	ASR10BL	ASR10RO	ASR10VD
1/2" 13	ASR13NE	ASR13BL	ASR13RO	ASR13VD
5/8" 16	ASR16NE	ASR16BL	ASR16RO	ASR16VD
3/4" 20	ASR20NE	ASR20BL	ASR20RO	ASR20VD
1" 25	ASR25NE	ASR25BL	ASR25RO	ASR25VD

Full technical data sheet available on page 769



## ASR-HH

Push-lock hose ASR-HH



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	MAX WORKING PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (m)
ASR-HH06	1/4"	6	6,5 <sup>+0,4</sup> <sub>-0,3</sub>	12,0 - 13,0	45	14	125	40
ASR-HH10	3/8"	10	9,7 <sup>±0,4</sup>	14,8 - 16,0	75	14	150	40
ASR-HH13	1/2"	13	13,0 <sup>±0,5</sup>	18,5 - 20,0	90	14	235	40
ASR-HH16	5/8"	16	16,0 <sup>+0,7</sup> <sub>-0,3</sub>	23,4 - 25,0	115	14	350	40

\* available on demand and min. quantity

DN		Blue	Red
1/4"	6	* ASR-HH06BL	ASR-HH06RO
3/8"	10	ASR-HH10BL	ASR-HH10RO
1/2"	13	ASR-HH13BL	ASR-HH13RO
5/8"	16	ASR-HH16BL	ASR-HH16RO

Full technical data sheet available on page 770

## ASR-PU

Push-lock hose ASR-PU



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 20°C (Bar)	NEGATIVE PRESSURE (Bar)	g/m
ASR-PU06	1/4"	6	6,4	13	25	13	0,8	110
ASR-PU10	3/8"	10	9,5	16	60	13	0,8	154
ASR-PU13	1/2"	13	12,5	19	75	13	0,8	218
ASR-PU16	5/8"	16	16,5	23	125	12	0,8	280
ASR-PU20	3/4"	20	19,5	27	150	10	0,8	325

\* Light blue, Red and Green: available on demand and min. quantity

DN		Black	* Light blue	* Red	* Green
1/4"	6	ASR-PU06NE	ASR-PU06AZ	ASR-PU06RO	ASR-PU06VD
3/8"	10	ASR-PU10NE	ASR-PU10AZ	ASR-PU10RO	ASR-PU10VD
1/2"	13	ASR-PU13NE	ASR-PU13AZ	ASR-PU13RO	ASR-PU13VD
5/8"	16	ASR-PU16NE	ASR-PU16AZ	ASR-PU16RO	ASR-PU16VD
3/4"	20	ASR-PU20NE	ASR-PU20AZ	ASR-PU20RO	ASR-PU20VD

Full technical data sheet available on page 771





**COMPRESSION  
FITTINGS  
NICKEL-PLATED  
BRASS**

**PLUS**

**EXCELLENT GRIPPING SYSTEM  
THANKS TO THE COMPRESSION OF  
THE TUBE ON THE OGIVE RING**

---

**RESISTANT TO VIBRATIONS AND TO  
WATER HAMMERS**

---

**SUITABLE WITH AIR AND OIL**

---

**POSSIBILITY TO CONNECT TUBES  
OF DIFFERENT MATERIALS, EVEN  
PLASTICS, THANKS TO THE  
INTERNAL SUPPORT BUSH**





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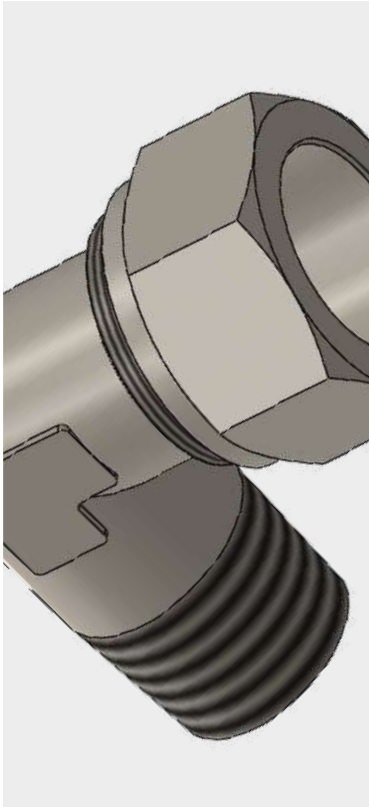


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p. 189 / **1176**





-20°C ÷ +80°C  
The working temperature is determined by the features of the tube used



**Working pressure:**  
Up to 60 Bar  
The max working pressure is determined by the features of the tube used



Compressed air, oil and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1/2"  
- Parallel gas BSPP ISO 228 from G1/8" to G1/2"



**Metal tubes:** brass, copper and aluminum  
**Plastic tubes:** using support bush 3250: Polyethylene PE, Polyamide PA, PTFE, FEP (3250)



**Body:** Turning - nickel-plated brass UNI EN 12164 CW614N  
Hot forging & machining - nickel-plated brass  
**Lock nut:** Nickel-plated brass UNI EN 12164 CW614N  
**Ogive:** Yellow brass UNI EN 12164 CW 614N

**SILICONE FREE**

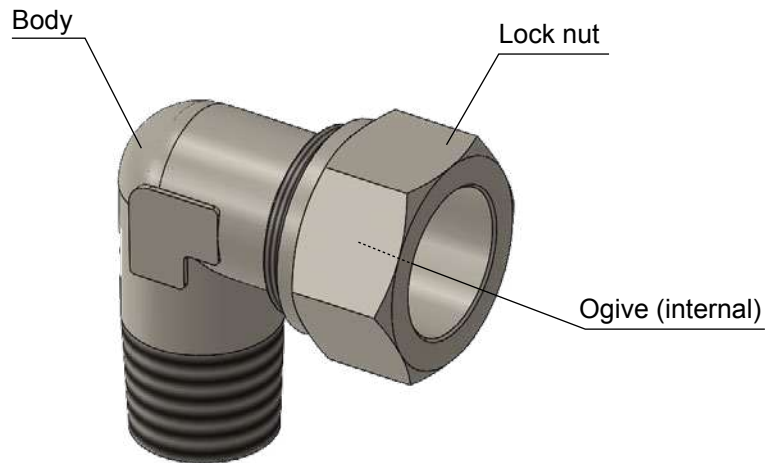


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	8	12	14	16

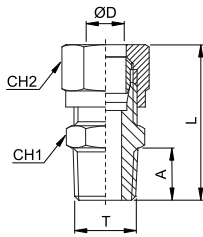
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	5	8	10	12



**3100**

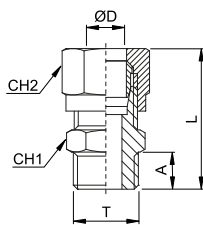
Male connector BSPT thread



CODE	ØD	T	A	L	CH1	CH2	g
3100TR184	4	R 1/8"	8,0	27,0	10	10	12,0
3100TR186	6	R 1/8"	8,0	28,0	12	12	16,0
3100TR146		R 1/4"	11,0	32,5	14	12	24,0
3100TR188	8	R 1/8"	8,0	29,5	12	14	18,0
3100TR148		R 1/4"	11,0	33,0	14	14	24,0
3100TR388		R 3/8"	11,5	33,0	17	14	36,0
3100TR1410	10	R 1/4"	11,0	37,5	17	19	44,0
3100TR3810		R 3/8"	11,5	38,0	17	19	50,0
3100TR1210		R 1/2"	14,0	40,5	22	19	74,0
3100TR3812	12	R 3/8"	11,5	39,0	19	22	58,0
3100TR1212		R 1/2"	14,0	41,0	22	22	78,0
3100TR1214	14	R 1/2"	14,0	42,5	22	27	102,0
3100TR1215	15	R 1/2"	14,0	42,5	22	27	96,0
3100TR1216	16	R 1/2"	14,0	42,0	24	30	112,0
3100TR1218	18	R 1/2"	14,0	43,0	26	32	126,0

**3120**

Male connector BSPP thread



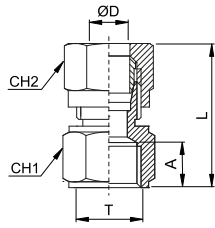
CODE	ØD	T	A	L	CH1	CH2	g
3120TR184	4	G 1/8"	6,0	25,0	14	10	16,0
3120TR186	6	G 1/8"	6,0	26,0	14	12	16,0
3120TR146		G 1/4"	8,0	29,5	17	12	24,0
3120TR188	8	G 1/8"	6,0	27,5	14	14	18,0
3120TR148		G 1/4"	8,0	30,0	17	14	28,0
3120TR388		G 3/8"	9,0	30,5	19	14	34,0
3120TR1410	10	G 1/4"	8,0	34,5	17	19	44,0
3120TR3810		G 3/8"	9,0	36,0	19	19	50,0





## 3130

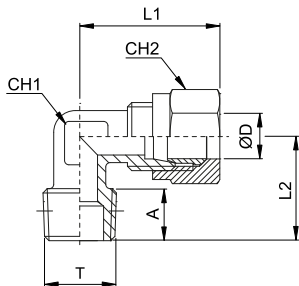
## Female connector BSPP thread



CODE	ØD	T	A	L	CH1	CH2	g
3130TR184	4	G 1/8"	8,0	24,5	14	10	16,0
3130TR186	6	G 1/8"	8,0	26,0	14	12	17,0
3130TR146		G 1/4"	11,0	30,5	17	12	26,0
3130TR188	8	G 1/8"	8,0	26,5	14	14	20,0
3130TR148		G 1/4"	11,0	31,0	17	14	28,0
3130TR388		G 3/8"	11,5	31,0	20	14	32,0
3130TR1410	10	G 1/4"	11,0	35,5	17	19	46,0
3130TR3810		G 3/8"	11,5	36,5	20	19	50,0
3130TR3812	12	G 3/8"	11,5	37,0	20	22	58,0
3130TR1212		G 1/2"	15,0	38,5	24	22	70,0
3130TR1214	14	G 1/2"	15,0	40,0	24	27	98,0
3130TR1215	15	G 1/2"	15,0	40,5	24	27	94,0
3130TR1216	16	G 1/2"	16,0	41,5	24	30	110,0
3130TR1218	18	G 1/2"	16,0	43,0	24	32	134,0

## 3140

## Male elbow BSPT thread

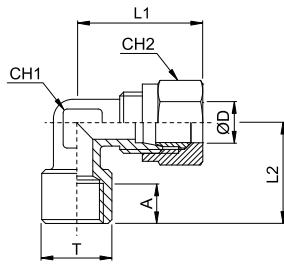


CODE	ØD	T	A	L1	L2	CH1	CH2	g
3140TR184	4	R 1/8"	8,0	21,0	16,0	9	10	14,0
3140TR186	6	R 1/8"	8,0	22,0	16,0	9	12	16,0
3140TR146		R 1/4"	11,0	24,5	20,0	11	12	24,0
3140TR188	8	R 1/8"	8,0	24,0	17,0	11	14	22,0
3140TR148		R 1/4"	11,0	24,0	20,0	11	14	26,0
3140TR388		R 3/8"	11,5	27,0	24,0	13	14	36,0
3140TR1410	10	R 1/4"	11,0	32,0	23,5	13	19	48,0
3140TR3810		R 3/8"	11,5	32,0	24,0	13	19	52,0
3140TR1210	12	R 1/2"	14,0	34,0	28,5	15	19	66,0
3140TR3812		R 3/8"	11,5	34,5	25,5	15	22	69,0
3140TR1212	12	R 1/2"	14,0	34,5	28,5	15	22	74,0
3140TR1214	14	R 1/2"	14,0	38,0	30,0	17	27	106,0
3140TR1215	15	R 1/2"	14,0	38,0	30,0	17	27	100,0
3140TR1216	16	R 1/2"	14,0	39,5	31,5	19	30	124,0
3140TR1218	18	R 1/2"	14,0	44,0	34,0	22	32	156,0



**3150**

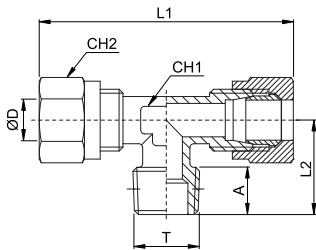
Female elbow BSPP thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
3150TR184	4	G 1/8"	8,0	22,0	20,0	9	10	18,0
3150TR186	6	G 1/8"	8,0	24,0	20,0	9	12	20,0
3150TR146		G 1/4"	11,0	27,0	25,5	13	12	39,0
3150TR188	8	G 1/8"	8,0	24,0	20,0	11	14	26,0
3150TR148		G 1/4"	11,0	27,5	25,5	13	14	40,0

**3160**

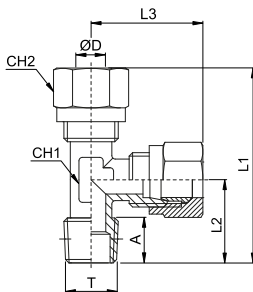
Male tee BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	g
3160TR184	4	R 1/8"	8,0	42,0	16,0	9	10	22,0
3160TR186	6	R 1/8"	8,0	46,0	16,0	9	12	26,0
3160TR146		R 1/4"	11,0	48,0	20,0	11	12	34,0
3160TR188	8	R 1/8"	8,0	48,0	17,0	11	14	34,0
3160TR148		R 1/4"	11,0	48,0	20,0	11	14	38,0
3160TR388	10	R 3/8"	11,5	54,0	24,0	13	14	52,0
3160TR1410		R 1/4"	11,0	64,0	23,5	13	19	80,0
3160TR3810	12	R 3/8"	11,5	64,0	24,0	13	19	84,0
3160TR3812		R 3/8"	11,5	69,0	25,5	15	22	108,0
3160TR1212	14	R 1/2"	14,0	69,0	28,5	15	22	118,0
3160TR1214		R 1/2"	14,0	76,0	30,0	17	27	176,0
3160TR1215	15	R 1/2"	14,0	76,0	30,0	17	27	170,0
3160TR1216	16	R 1/2"	14,0	79,0	31,5	19	30	212,0
3160TR1218	18	R 1/2"	14,0	88,0	34,0	22	32	256,0

**3170**

Lateral male tee BSPT thread

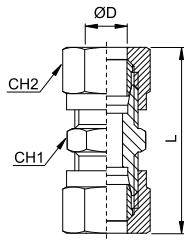


CODE	ØD	T	A	L1	L2	L3	CH1	CH2	g
3170TR184	4	R 1/8"	8,0	37,0	16,0	21,0	9	10	22,0
3170TR186	6	R 1/8"	8,0	39,0	16,0	23,0	9	10	26,0
3170TR146		R 1/4"	11,0	44,5	20,0	24,5	11	12	34,0
3170TR188	8	R 1/8"	8,0	41,0	17,0	24,0	11	14	34,0
3170TR148		R 1/4"	11,0	44,0	20,0	24,0	11	14	38,0
3170TR388	10	R 3/8"	11,5	51,0	24,0	27,0	13	14	52,0
3170TR1410		R 1/4"	11,0	55,5	23,5	32,0	13	19	80,0
3170TR3810	12	R 3/8"	11,5	56,0	24,0	32,0	13	19	84,0
3170TR3812		R 3/8"	11,5	60,0	25,5	34,5	15	22	110,0
3170TR1212	14	R 1/2"	14,0	63,0	28,5	34,5	15	22	118,0
3170TR1214		R 1/2"	14,0	68,0	30,0	38,0	17	27	176,0
3170TR1215	15	R 1/2"	14,0	68,0	30,0	38,0	17	27	170,0
3170TR1216	16	R 1/2"	14,0	71,0	31,5	39,5	19	30	210,0
3170TR1218	18	R 1/2"	14,0	78,0	34,0	44,0	22	32	256,0



## 3180

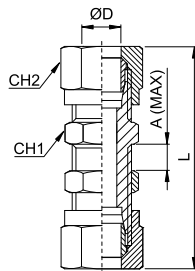
## Union connector



CODE	ØD	L	CH1	CH2	g
3180TR4	4	33,5	10	10	16,0
3180TR6	6	36,5	12	12	25,0
3180TR8	8	38,5	14	14	28,0
3180TR10	10	47,5	17	19	66,0
3180TR12	12	50,5	19	22	93,0
3180TR14	14	55,5	24	27	148,0
3180TR15	15	55,5	24	27	140,0
3180TR16	16	58,0	24	30	177,0
3180TR18	18	60,0	26	32	198,0

## 3190

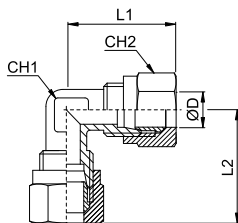
## Bulkhead connector



CODE	ØD	T	A MAX	L	CH1	CH2	g
3190TR6	6	M10x1	15,5	51,5	14	12	32,0
3190TR8	8	M12x1	16,5	55,5	16	14	42,0
3190TR10	10	M16x1,5	15,5	62,5	19	19	90,0
3190TR12	12	M18x1,5	16,0	64,5	22	22	116,0
3190TR14	14	M22x1,5	18,0	69,5	25	27	192,0
3190TR15	15	M22x1,5	18,0	69,5	25	27	184,0

## 3200

## Union elbow

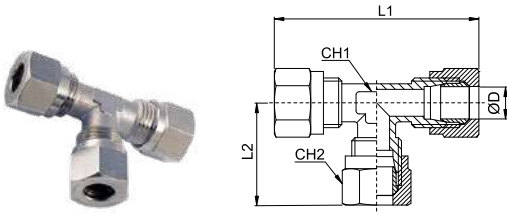


CODE	ØD	L1	L2	CH1	CH2	g
3200TR4	4	21,0	21,0	9	10	18,0
3200TR6	6	23,0	23,0	9	12	22,0
3200TR8	8	24,0	24,0	11	14	30,0
3200TR10	10	32,0	32,0	13	19	70,0
3200TR12	12	34,5	34,5	15	22	94,0
3200TR14	14	38,0	38,0	17	27	152,0
3200TR15	15	38,0	38,0	17	27	144,0
3200TR16	16	39,5	39,5	19	30	186,0
3200TR18	18	44,0	44,0	22	32	228,0



**3210**

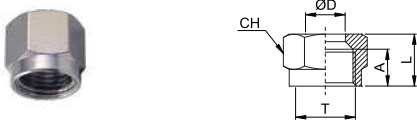
Union tee



CODE	ØD	L1	L2	CH1	CH2	g
3210TR4	4	42,0	21,0	9	10	26,0
3210TR6	6	46,0	23,0	9	12	30,0
3210TR8	8	48,0	24,0	11	14	42,0
3210TR10	10	64,0	32,0	13	19	102,0
3210TR12	12	69,0	34,5	15	22	136,0
3210TR14	14	76,0	38,0	17	27	226,0
3210TR15	15	76,0	38,0	17	27	208,0
3210TR16	16	79,0	39,5	19	30	272,0
3210TR18	18	88,0	44,0	22	32	330,0

**3230**

Locking nut



CODE	ØD	T	A	L	CH	g
3230TRM814	4	M8x1	7,5	11,0	10	4,2
3230TRM1016	6	M10x1	8,5	11,5	12	5,4
3230TRM1218	8	M12x1	9,0	12,0	14	7,0
3230TRM161510	10	M16x1,5	11,5	15,5	19	18,2
3230TRM181512	12	M18x1,5	11,5	15,5	22	25,0
3230TRM221514	14	M22x1,5	12,0	17,5	27	44,3
3230TRM221515	15	M22x1,5	12,0	17,0	27	41,1
3230TRM241516	16	M24x1,5	12,0	17,5	30	55,6
3230TRM261518	18	M26x1,5	12,5	18,5	32	64,2

**3240**

Ogive

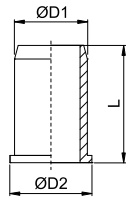


CODE	ØD1	ØD2	L	g
3240TR4	4	6	6,0	0,45
3240TR6	6	8	7,0	0,82
3240TR8	8	10	7,0	1,12
3240TR10	10	13	10,0	3,32
3240TR12	12	15	10,0	3,80
3240TR14	14	17	10,0	4,40
3240TR15	15	18	10,0	4,76
3240TR16	16	19	10,0	5,04
3240TR18	18	21	10,5	5,92



## 3250

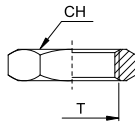
## Internal support bush



CODE	TUBE ØD	ØD1	ØD2	L	g
3250TR4	4	2,5	3,5	10,0	0,20
3250TR6	6	4,0	5,5	12,0	0,60
3250TR8	8	6,0	7,5	13,0	1,00
3250TR10	10	8,0	9,5	14,0	1,40
3250TR12	12	10,0	11,5	16,0	2,20
3250TR14	14	12,0	13,5	16,0	2,60
3250TR15	15	12,5	14,5	17,0	2,80
3250TR16	16	14,0	15,5	18,0	3,40
3250TR18	18	16,0	17,5	19,0	-

## 1176

## Bulkhead locking nut



CODE	T	CH	g
1176TRM101	M10x1	14	3,0
1176TRM121	M12x1	16	3,8
1176TRM1615	M16x1,5	19	5,0
1176TRM1815	M18x1,5	22	7,0
1176TRM2215	M22x1,5	25	17,0





**COMPRESSION  
FITTINGS**  
STAINLESS STEEL  
AISI 316  
DIN 2353

**PLUS**

**DESIGNED AND MANUFACTURED TO  
ACHIEVE A STRONG AND LEAK-FREE  
FITTING**

---

**RESISTANT TO VIBRATIONS AND TO  
WATER HAMMERS**

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**PRODUCTS IN COMPLIANCE WITH  
DIN 2353**

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**SINGLE OGIVE DESIGN WITH TWO  
CUTTING EDGES**

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**CERTIFIED LLOYDS, DNV GL, ABS  
AND BUREAU VERITAS**





p. 195 / **DDMC-R**



p. 195 / **DDMC-G**



p. 196 / **DDFC-G**



p. 196 / **DDLM-R**



p. 196 / **DDU**



p. 197 / **DDBU**



p. 197 / **DDL**



p. 197 / **DDT**



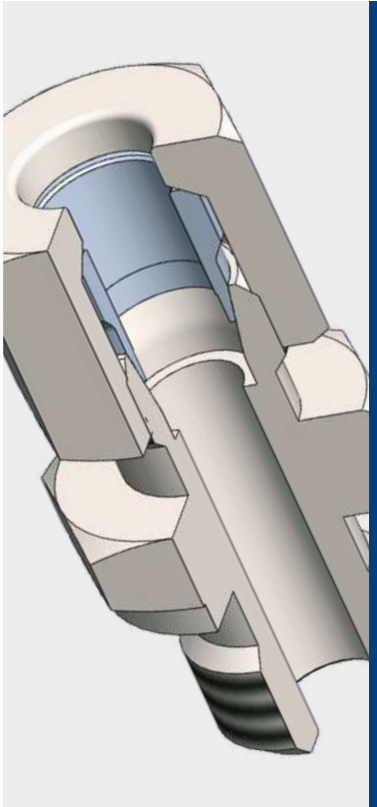
p. 197 / **DDN**



p. 198 / **DDS**







-60°C ÷ +400°C  
See table below for pressure reduction according to working temperature



**Working pressure:**  
See in the fittings table.  
For pneumatic applications, the working pressure indicated in the table must be reduced by 50%.



Compressed air, oil, chemicals and aggressive fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1/2"  
- Parallel gas BSPP ISO 228 from G1/8" to G3/4"



Stainless steel tubes, hardened and seamless, according to DIN 2391. The tubes must be suitable for the process fluid, pressure and temperature



**Body:** Stainless steel AISI 316  
**Lock nut:** Stainless steel AISI 316

**Ogive:** Stainless steel AISI 316 with heat treatment and annealing on the cutting ring.

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863

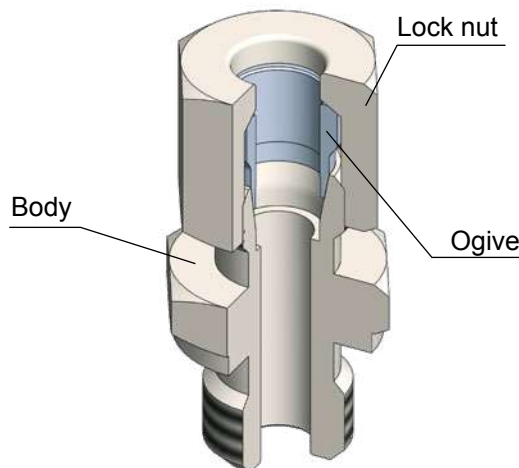
**AVAILABILITY**

Other fittings and sizes are available for this range, please see our website ([www.inoxfit.com](http://www.inoxfit.com)) and the INOX.Fit catalogue.

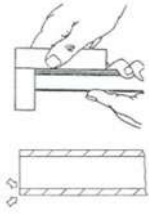
**PRESSURE REDUCTION ACCORDING TO WORKING TEMPERATURE**

WORKING TEMPERATURE RANGE	WORKING PRESSURE REDUCTION
-60°C ÷ +20°C	-
-60°C ÷ +50°C	-4%
+100°C	-11%
+200°C	-20%
+300°C	-29%
+400°C	-33%

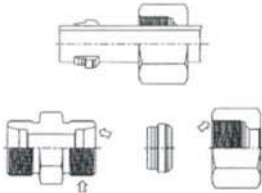
**CONSTRUCTION DETAILS**



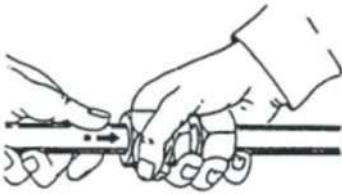
**ASSEMBLY INSTRUCTIONS**



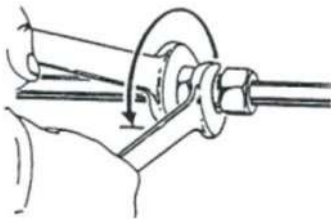
- Ensure that the tube end is cut at 90° with an angular maximum offset of +/- 1/2° in relation to the tube axis.
- After cleaning, lightly deburr tube ends at the inside and outside edge.



- Lubricate the thread and the inside part of the fitting, the ring and the thread of the nut. Don't use grease.

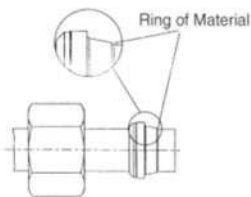


- Place nut and cutting ring on the tube. Ensure the cutting ring and nut are facing the right way.
- Manually screw the nut on to the fitting body keeping the tube completely inserted in.

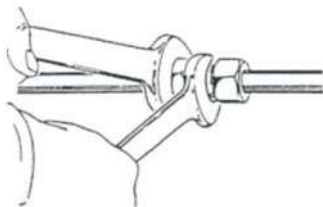


- Finally tighten the nut using a wrench for 1 and 1/2 turns by holding the fitting body with a second wrench. Never turn the fitting body, hold the body and turn the nut.

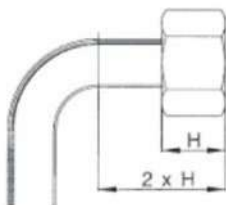
**WARNING:** Any deviation in the number of tightening turns reduces the maximum pressure and the service life of the fitting and may cause leakages or slipping of the tube.



- Check penetration of the cutting edge. A visible ring of material should fill the space in front of the cutting ring and face. Cutting ring may turn on tube but should not be capable of axial displacement.



- Tighten the nut again on to fitting body until completely tightened.

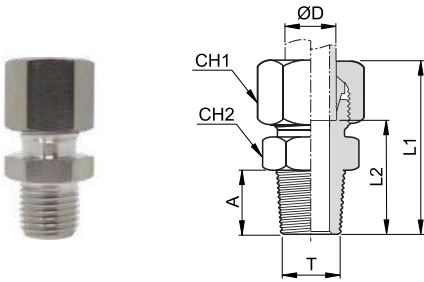


- The minimum length of straight tube, before any bend, has to be at least two times the height of the nut (H).



**DDMC-R**

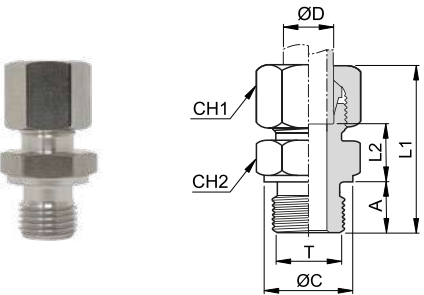
Male connector BSPT thread



CODE	ØD	T	A	L1	L2	CH1	CH2	Bar
DDMC-04L-01R	4	R 1/8"	8,0	26,0	16,0	10	11	100
DDMC-06L-01R	6	R 1/8"	8,0	30,0	15,0	14	12	250
DDMC-08LL-01R	8	R 1/8"	8,0	28,0	16,5	14	12	100
DDMC-08L-02R		R 1/4"	12,0	35,0	20,0	17	17	250
DDMC-10L-02R	10	R 1/4"	12,0	36,0	21,0	19	17	250
DDMC-12L-02R	12	R 1/4"	12,0	37,0	22,0	22	19	250
DDMC-12L-03R		R 3/8"	12,0	37,0	22,0	22	19	250
DDMC-12L-04R		R 1/2"	14,0	39,0	24,0	22	24	250
DDMC-15L-03R	15	R 3/8"	12,0	38,0	23,0	27	24	250
DDMC-15L-04R	15	R 1/2"	14,0	40,0	25,0	27	24	250

**DDMC-G**

Male connector BSPP thread

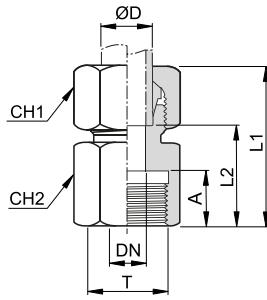


CODE	ØD	T	ØC	A	L1	L2	CH1	CH2	Bar
DDMC-06L-01G	6	G 1/8"	14,0	8,0	23,0	8,5	14	14	250
DDMC-06L-02G		G 1/4"	18,0	12,0	25,0	10,0	14	19	250
DDMC-06L-03G		G 3/8"	22,0	12,0	26,0	11,5	14	22	250
DDMC-06L-04G		G 1/2"	26,0	14,0	27,0	12,0	14	27	250
DDMC-08L-01G	8	G 1/8"	14,0	8,0	23,0	8,5	17	14	250
DDMC-08L-02G		G 1/4"	18,0	12,0	25,0	10,0	17	19	250
DDMC-08L-03G		G 3/8"	22,0	12,0	26,0	11,5	17	22	250
DDMC-08L-04G		G 1/2"	26,0	14,0	27,0	12,0	17	27	250
DDMC-10L-02G	10	G 1/4"	18,0	12,0	26,0	11,0	19	19	250
DDMC-10L-03G		G 3/8"	22,0	12,0	27,0	12,5	19	22	250
DDMC-10L-04G		G 1/2"	26,0	14,0	28,0	13,0	19	27	250
DDMC-12L-02G	12	G 1/4"	18,0	12,0	27,0	12,0	22	19	250
DDMC-12L-03G		G 3/8"	22,0	12,0	27,0	12,5	22	22	250
DDMC-12L-04G		G 1/2"	26,0	14,0	28,0	13,0	22	27	250
DDMC-12L-06G		G 3/4"	32,0	16,0	29,0	14,0	22	32	250
DDMC-15L-03G	15	G 3/8"	22,0	12,0	29,0	13,5	27	24	250
DDMC-15L-04G		G 1/2"	26,0	14,0	29,0	14,0	27	27	250
DDMC-15L-06G		G 3/4"	32,0	16,0	30,0	15,0	27	32	250
DDMC-16S-03G	16	G 3/8"	22,0	12,0	36,0	18,0	30	27	400
DDMC-16S-04G		G 1/2"	26,0	14,0	37,0	18,5	30	27	400
DDMC-16S-06G		G 3/4"	32,0	16,0	39,0	20,5	30	32	400



**DDFC-G**

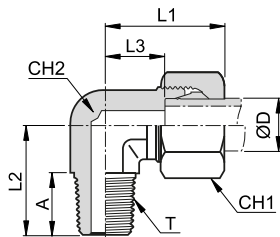
Female connector BSPP thread



CODE	ØD	T	DN	A	L1	L2	CH1	CH2	Bar
DDFC-06L-01G	6	G 1/8"	4	12,0	34,0	19,0	14	14	250
DDFC-06S-02G		G 1/4"	4	17,0	41,0	26,0	17	19	630
DDFC-08L-02G	8	G 1/4"	6	17,0	39,0	24,0	17	19	250
DDFC-08L-03G		G 3/8"	6	17,0	40,0	25,0	17	24	250
DDFC-08L-04G		G 1/2"	6	20,0	44,0	29,0	17	27	250
DDFC-10L-02G	10	G 1/4"	8	17,0	40,0	25,0	19	19	250
DDFC-10L-03G		G 3/8"	8	17,0	41,0	26,0	19	24	250
DDFC-10L-04G		G 1/2"	8	20,0	45,0	30,0	19	27	250
DDFC-12L-03G	12	G 3/8"	10	17,0	41,0	26,0	22	24	250
DDFC-12L-04G		G 1/2"	10	20,0	45,0	30,0	22	27	250
DDFC-15L-04G	15	G 1/2"	12	20,0	46,0	31,0	27	27	250
DDFC-16S-04G	16	G 1/2"	12	20,0	50,0	31,5	30	30	400

**DDL-M-R**

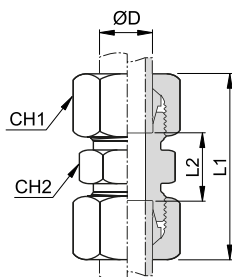
Male elbow BSPT thread



CODE	ØD	T	A	L1	L2	L3	CH1	CH2	Bar
DDL-M-04LL-01R	4	R 1/8"	10,0	21,0	17,0	11,0	10	9	100
DDL-M-06L-01R	6	R 1/8"	10,0	27,0	20,0	12,0	14	12	250
DDL-M-06S-02R		R 1/4"	14,0	31,0	26,0	16,0	17	12	630
DDL-M-08LL-01R	8	R 1/8"	10,0	23,0	20,0	11,5	14	12	100
DDL-M-08L-02R		R 1/4"	14,0	29,0	26,0	14,0	17	12	250
DDL-M-10L-02R	10	R 1/4"	14,0	30,0	27,0	15,0	19	14	250
DDL-M-10S-03R		R 3/8"	15,0	34,0	28,0	17,5	22	17	630
DDL-M-12L-03R	12	R 3/8"	15,0	32,0	28,0	17,0	22	17	250
DDL-M-15L-04R	15	R 1/2"	19,0	36,0	34,0	21,0	27	19	250
DDL-M-16S-04R	16	R 1/2"	19,0	43,0	32,0	24,5	30	24	400

**DDU**

Union connector

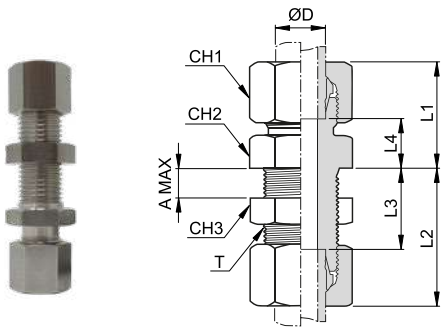


CODE	ØD	L1	L2	CH1	CH2	Bar
DDU-04LL	4	31,0	12,0	10	9	100
DDU-06L	6	39,0	10,0	14	12	250
DDU-08L	8	40,0	11,0	17	14	250
DDU-10L	10	42,0	13,0	19	17	250
DDU-12L	12	43,0	14,0	22	19	250
DDU-15L	15	46,0	16,0	27	24	250
DDU-16S	16	57,0	21,0	30	27	400



**DDBU**

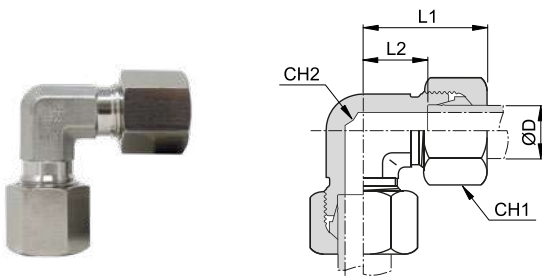
Bulkhead connector



CODE	ØD	T	MAX A	L1	L2	L3	L4	CH1	CH2	CH3	Bar
DDBU-06L	6	M12x1,5	16,0	22,0	42,0	27,0	7,0	14	17	17	250
DDBU-08L	8	M14x1,5	16,0	23,0	42,0	27,0	8,0	17	19	19	250
DDBU-10L	10	M16x1,5	16,0	25,0	43,0	28,0	10,0	19	22	22	250
DDBU-12L	12	M18x1,5	16,0	25,0	44,0	29,0	10,0	22	24	24	250
DDBU-15L	15	M22x1,5	16,0	27,0	46,0	31,0	12,0	27	27	30	250
DDBU-16S	16	M24x1,5	16,0	35,0	50,0	31,5	16,5	30	32	32	400

**DDL**

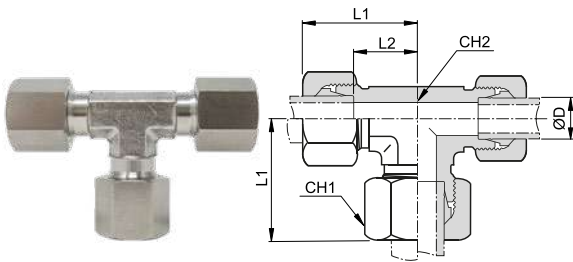
Union elbow



CODE	ØD	L1	L2	CH1	CH2	Bar
DDL-04LL	4	21,0	11,0	10	9	100
DDL-06L	6	27,0	12,0	14	12	250
DDL-08L	8	29,0	14,0	17	14	250
DDL-10L	10	30,0	15,0	19	17	250
DDL-12L	12	32,0	17,0	22	19	250
DDL-15L	15	36,0	21,5	27	24	250
DDL-16S	16	43,0	24,5	30	27	400

**DDT**

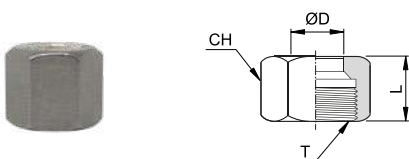
Union tee



CODE	ØD	L1	L2	CH1	CH2	Bar
DDT-04LL	4	21,0	11,0	10	9	100
DDT-06L	6	27,0	12,0	14	12	250
DDT-08L	8	29,0	14,0	17	12	250
DDT-10L	10	30,0	15,0	19	14	250
DDT-12L	12	32,0	17,0	22	17	250
DDT-15L	15	36,0	21,0	27	19	250
DDT-16S	16	43,0	24,5	30	24	400

**DDN**

Locking nut

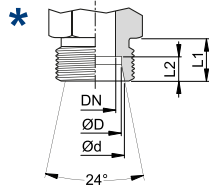
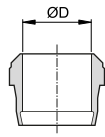


CODE	ØD	T	L	CH	Bar
DDN-04LL	4	M8x1,0	11,5	10	100
DDN-06L	6	M12x1,5	15,0	14	250
DDN-08L	8	M14x1,5	15,0	17	250
DDN-10L	10	M16x1,5	16,0	19	250
DDN-12L	12	M18x1,5	16,0	22	250
DDN-15L	15	M22x1,5	17,5	27	250
DDN-16S	16	M14x1,5	21,0	30	400



**DDS**

Ogive

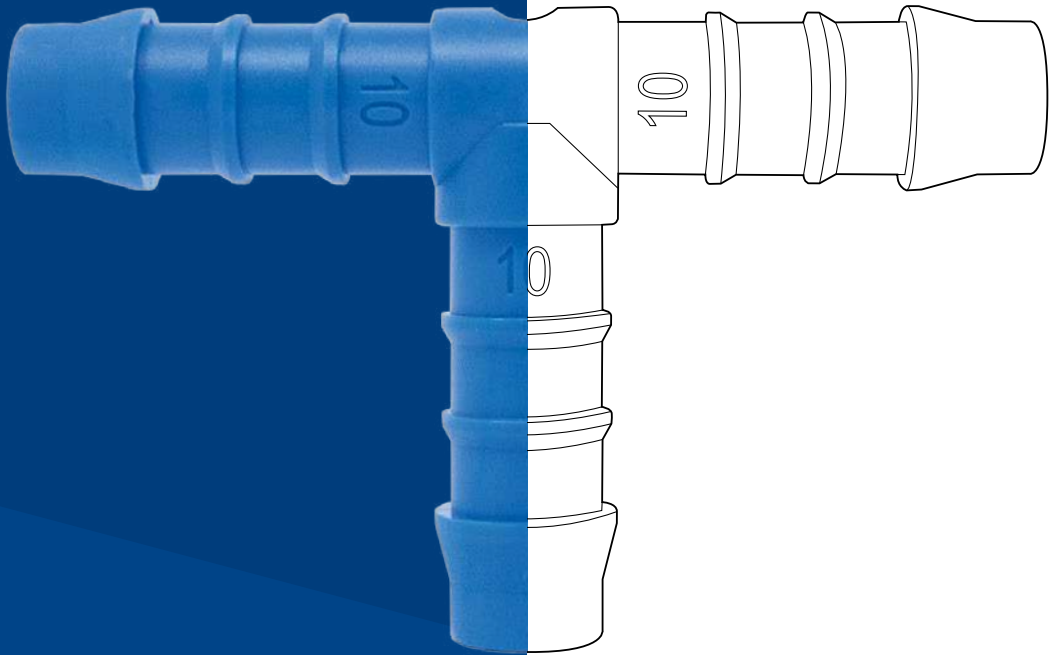


CODE	ØD	Ød	DN	L1	L2	Bar
DDS-04LL	4	5	3	8,0	4,0	100
DDS-06L	6	8,1	4	10,0	7,0	250
DDS-08L	8	10,1	6	10,0	7,0	250
DDS-10L	10	12,3	8	11,0	7,0	250
DDS-12L	12	14,3	10	11,0	7,0	250
DDS-15L	15	17,3	12	12,0	7,0	250
DDS-16S	16	18,3	12	14,0	8,5	400

\* Thread diameter according to DIN 3853



# BARB CONNECTORS



# TECHNICAL INDEX



p. 201  
**POLYPROPYLENE**

**Materials:** Polypropylene  
**Pressure:** 14 Bar  
**Temperature:** from +4°C to 90°C  
**Range:** Ø12 - Ø25 / R1/8" to R1"  
Ø6 - Ø19 / G1/2" to G1"



p. 209  
**BRASS**

**Materials:** Nickel-plated brass  
**Pressure:** 18 Bar  
**Temperature:** from -20°C to 100°C  
from -15°C to 200°C  
**Range:** Ø6 - Ø27 / R1/8" to R1"  
Ø4,5 - Ø20 / M5 to G3/4"



p. 217  
**NYLON**



**Materials:** Nylon 66  
**Pressure:** 14 Bar  
**Temperature:** from -20°C to 110°C  
**Range:** Ø4 - Ø25 / R1/8" to R1"



p. 231  
**PVDF**



**Materials:** PVDF  
**Pressure:** 14 Bar  
**Temperature:** from -20°C to 120°C  
**Range:** Ø4 - Ø25 / R1/8" to R1"



p. 241  
**STAINLESS STEEL AISI 316**



**Materials:** Stainless steel AISI 316  
**Pressure:** 60 Bar  
**Temperature:** from -20°C to 180°C  
**Range:** Ø6 - Ø20 / R1/8" to R3/4"



p. 245  
**CLAMPS**

**Materials:** See technical datasheet  
**Temperature:** from +4°C to 90°C (5090)  
**Range:** Ø8 - Ø90 (KC9 - KCW9 - KCX9)  
Ø8 - Ø49 (5090)





# **BARB CONNECTORS POLYPROPYLENE**

**PLUS**

**SUITABLE FOR AIR AND WATER  
ACCORDING TO TABLES**

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**GREAT CHEMICAL RESISTANCE  
ESPECIALLY WITH FERTILIZERS**

---

**UTILIZE WITH 5090 SERIES CLAMPS  
FOR BETTER GRIP AND SAFETY**

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**DESIGNED TO BE USED WITH 2,5  
AND 4 CLASSES LDPE TUBES. CAN  
ALSO BE USED WITH DIFFERENT  
PLASTIC AND RUBBER FLEXIBLE  
TUBES**

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**IDEAL FOR AGRICULTURAL  
INDUSTRY**





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p. 205 / **5520**



p. 205 / **5530**



p. 206 / **5540**



p. 206 / **5545**



p. 206 / **5550**



p. 206 / **5555**



p. 207 / **5560**



p. 207 / **5565**

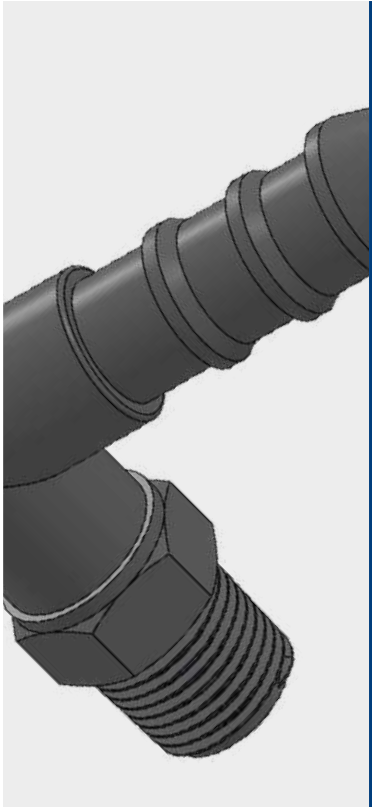


p. 207 / **5570**



p. 207 / **5580**





+4°C ÷ +90°C  
Subject to applications



**Working pressure:**  
14 Bar (at 20°C)  
Depending on the tube used



Compressed air, water and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1"
- Parallel gas BSPP ISO 228 from G1/8" to G1"



Suitable for use with LDPE class 2.5 and 4 tubes.  
Can be used with plastic and rubber tubes



Body: Polypropylene

**FEATURES**

- The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.
- It is recommended to insert the tube to the end and tightened with the clamp.
- Cut the part of the tube attached to the fitting in order to reuse it.



Products in compliance with EC Regulation 1907/2006

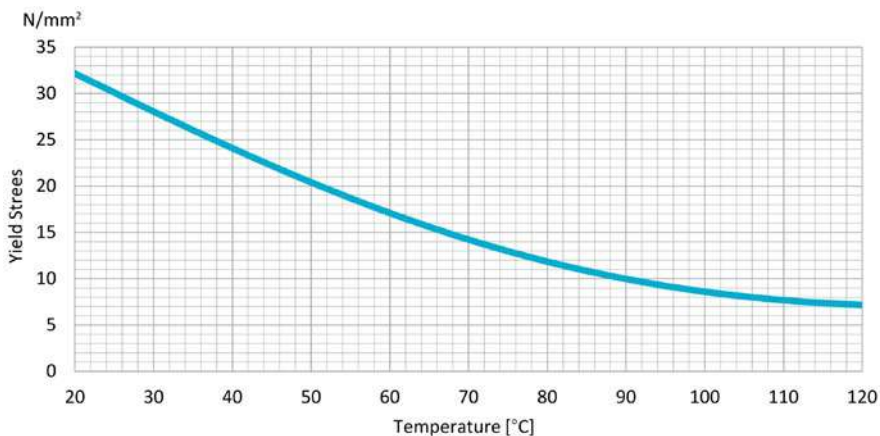


Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**YIELD STRESS OF POLYPROPYLENE AS A FUNCTION OF TEMPERATURE**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nm	0,01	0,3	1	2	5	8

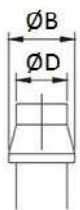
**DIAMETER OF THE BARB**  
BARB CONNECTORS - POLYPROPYLENE

OD EXTERNAL TUBE	Ø12	Ø16	Ø20	Ø25
ØB - BARB (mm)	11,8	15,1	18,8	23,0
ØD (mm)	9,8	12,9	16,2	20,4



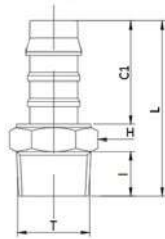
**DIAMETER OF THE BARB**  
BARB CONNECTORS - POLYPROPYLENE - ONLY FOR CODE 5570

OD EXTERNAL TUBE	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø19
ØB - BARB (mm)	8,1	10,2	12,4	13,9	15,9	18,1	21,0
ØD (mm)	6,1	8,1	10,1	11,9	13,8	15,9	18,8



## 5510

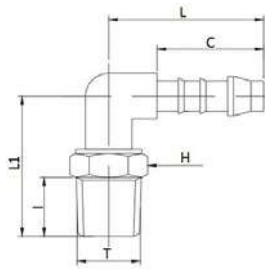
## Male barb connector BSPT thread



CODE	T	OD	I	C1	L	H	g
5510TR1812	R 1/8"	12	7,5	30,0	44,0	11	2,0
5510TR1412	R 1/4"	12	11,0	30,0	47,7	14	3,0
5510TR3812	R 3/8"	12	10,5	30,0	47,3	17	3,0
5510TR1212	R 1/2"	12	13,0	30,0	50,8	22	3,5
5510TR3412	R 3/4"	12	13,0	30,0	51,4	27	4,0
5510TR1416	R 1/4"	16	10,5	31,0	47,6	14	3,5
5510TR1216	R 1/2"	16	13,0	30,0	51,3	22	5,0
5510TR3416	R 3/4"	16	13,0	28,0	52,0	27	4,5
5510TR1220	R 1/2"	20	13,0	32,5	52,2	22	5,0
5510TR3420	R 3/4"	20	13,0	32,5	54,0	27	7,0
5510TR120	R 1"	20	18,0	32,5	59,0	36	18,0
5510TR1225	R 1/2"	25	13,0	32,5	53,3	22	6,0
5510TR3425	R 3/4"	25	13,0	32,5	54,5	27	8,0
5510TR125	R 1"	25	17,0	32,5	59,0	36	14,0

## 5520

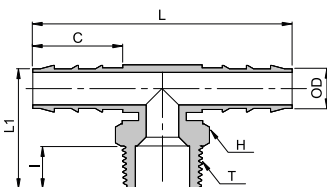
## Male elbow barb connector BSPT thread



CODE	T	OD	I	C	L	L1	H	g
5520TR1412	R 1/4"	12	11,0	30,0	41,0	32,0	14	3,0
5520TR3812	R 3/8"	12	11,0	30,0	41,0	32,0	14	4,0
5520TR1212	R 1/2"	12	13,0	30,0	41,0	32,0	22	4,5
5520TR3412	R 3/4"	12	13,0	30,0	41,0	36,0	27	5,5
5520TR3816	R 3/8"	16	11,0	30,0	45,0	28,0	22	6,0
5520TR1216	R 1/2"	16	13,0	30,0	43,0	32,0	22	7,0
5520TR3416	R 3/4"	16	13,0	30,0	45,0	34,0	27	8,5
5520TR1220	R 1/2"	20	13,0	32,5	48,0	35,0	22	10,0
5520TR3420	R 3/4"	20	13,0	32,5	48,0	37,0	27	11,0
5520TR1225	R 1/2"	25	13,0	32,5	46,0	37,0	27	12,0
5520TR3425	R 3/4"	25	13,0	32,5	46,0	38,0	27	13,0

## 5530

## Male tee barb connector BSPT thread

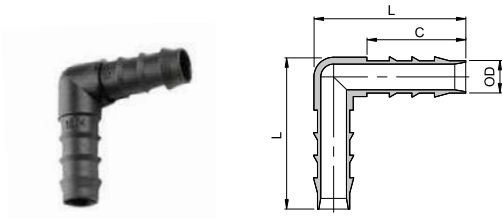


CODE	T	OD	I	C	L	L1	H	g
5530TR1412	R 1/4"	12	11,0	30,0	84,7	34,1	14	3,0
5530TR3812	R 3/8"	12	11,0	30,0	84,9	34,3	22	3,5
5530TR1212	R 1/2"	12	13,0	30,0	84,9	38,4	22	5,0
5530TR3412	R 3/4"	12	14,0	30,0	84,8	38,9	27	6,0
5530TR3816	R 3/8"	16	11,0	30,0	86,2	36,3	17	5,5
5530TR1216	R 1/2"	16	13,0	30,0	86,2	40,0	22	7,5
5530TR3416	R 3/4"	16	14,0	30,0	86,2	41,0	27	8,5
5530TR1220	R 1/2"	20	13,0	32,5	93,7	45,5	22	12,0
5530TR3420	R 3/4"	20	14,0	32,5	93,7	46,6	27	14,5
5530TR1225	R 1/2"	25	13,0	32,5	93,7	47,6	22	16,5
5530TR3425	R 3/4"	25	14,0	32,5	93,8	48,6	27	19,0



**5540**

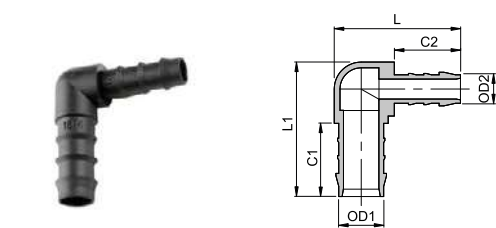
Union elbow barb connector



CODE	ØD	C	L	g
5540TR12	12	30,0	48,2	3,0
5540TR16	16	30,0	49,6	5,0
5540TR20	20	32,5	56,8	7,5
5540TR25	25	32,5	58,8	11,0

**5545**

Reduced union elbow barb connector



CODE	OD1	OD2	C1	C2	L	L1	g
5545TR1612	16	12	30,0	30,0	51,2	49,5	4,6
5545TR2012	20	12	32,5	30,0	56,4	55,0	7,94
5545TR2016	20	16	32,5	30,0	56,4	54,8	8,7
5545TR2520	25	20	32,5	32,5	58,3	56,4	10,2

**5550**

Union barb connector



CODE	OD	C	L	L1	g
5550TR12	12	30,0	68,6	34,5	3,0
5550TR16	16	30,0	71,4	36,0	4,0
5550TR20	20	32,5	76,5	38,5	5,0
5550TR25	25	32,5	76,5	38,5	8,0

**5555**

Reduced union barb connector

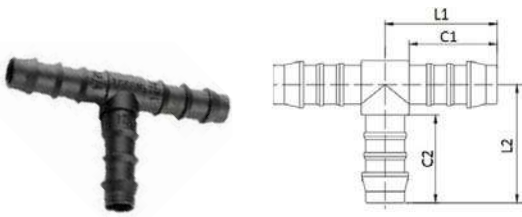


CODE	OD1	OD2	C1	C2	L	g
5555TR1612	16	12	30,0	30,0	71,5	3,7
5555TR2012	20	12	32,5	30,0	74,2	5,45
5555TR2016	20	16	32,5	30,0	74,2	5,6
5555TR2520	25	20	32,5	32,5	76,8	7,3



**5560**

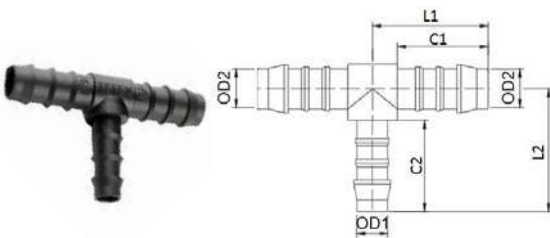
Union tee barb connector



CODE	OD	C1	C2	L1	L2	g
5560TR12	12	30,0	30,0	36,3	38,0	3,0
5560TR16	16	30,0	30,0	38,3	40,0	5,0
5560TR20	20	32,5	32,5	42,4	45,0	9,0
5560TR25	25	32,5	32,5	36,4	47,0	13,0

**5565**

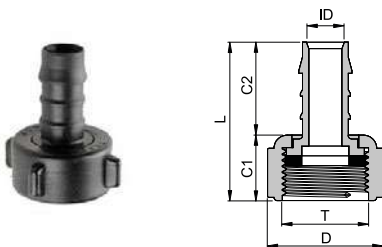
Reduced union tee barb connector



CODE	OD1	OD2	C1	C2	L1	L2	g
5565TR1216	12	16	30,0	30,0	48,2	76,7	3,0
5565TR1620	16	20	30,0	32,5	52,3	84,6	5,0
5565TR2025	20	25	32,5	32,5	58,6	88,7	13,0

**5570**

Female swivel barb connector BSPP thread with rubber seal



CODE	T	ID	D	C1	C2	L	g
5570TR346	G 3/4"	6	33,5	17,0	21,0	26,7	8,0
5570TR348	G 3/4"	8	33,5	14,5	25,0	30,6	8,5
5570TR18	G 1"	8	39,7	14,5	25,0	30,6	10,0
* 5570TR3810	G 3/8"	10	17,0	16,5	28,0	32,8	7,5
5570TR3410	G 3/4"	10	33,5	16,5	27,0	32,8	9,0
* 5570TR1212	G 1/2"	12	22,0	16,5	28,0	33,7	10,0
5570TR3412	G 3/4"	12	33,5	16,5	28,0	33,7	9,0
5570TR112	G 1"	12	39,7	16,5	27,0	33,7	11,0
5570TR3414	G 3/4"	14	33,5	16,5	30,0	35,0	7,0
5570TR114	G 1"	14	39,7	16,5	30,0	35,0	8,5
5570TR3416	G 3/4"	16	33,5	16,5	30,0	35,7	8,0
5570TR116	G 1"	16	39,7	16,5	30,0	35,7	10,0
5570TR3419	G 3/4"	19	33,5	16,5	31,0	36,8	10,0
5570TR119	G 1"	19	39,7	16,5	31,0	36,8	13,0

\* "D" refers to the external wrench

**5580**

Flat rubber seal for female thread



CODE	T	ØD	S	g
5580TR38	G 3/8"	15,3	2,9	0,6
5580TR12	G 1/2"	18,3	2,5	0,8
5580TR34	G 3/4"	24,7	2,7	0,9
5580TR1	G 1"	31,3	3	1,2







**BARB  
CONNECTORS  
BRASS**

**PLUS**

**SUITABLE FOR COMPRESSED AIR  
AND FLUIDS**

---

**WIDE RANGE AVAILABLE TO MEET  
MULTIPLE NEEDS**

---

**DESIGNED TO GUARANTEE A GOOD  
MECHANICAL RESISTANCE**

---

**USABLE WITH MANY PLASTIC AND  
RUBBER TUBES**

---

**UTILIZE WITH ZINC-PLATED STEEL  
CLAMPS TO EFFECTIVELY SECURE THE  
TUBE**





p. 212 / **1165**



p. 212 / **1167**



p. 213 / **1169**



p. 214 / **1170**



p. 214 / **1171**



p. 215 / **1174**

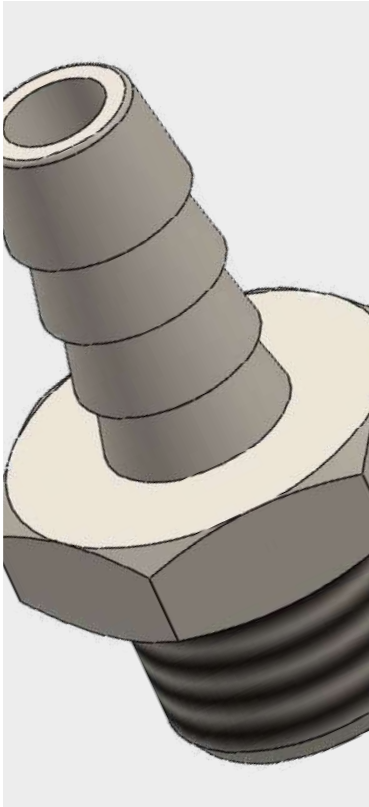


p. 215 / **1172**



p. 215 / **1173**





-20°C ÷ 100°C with NBR o-ring  
 -15°C ÷ 200°C with Viton o-ring  
 The working temperature is determined by the properties of the tube used



**Working pressure:**  
 18 Bar  
 60 Bar (max working pressure)  
 The working pressure is determined by the properties of the tube used



Compressed air, water and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1"  
 - Parallel gas BSPP ISO 228 from G1/8" to G3/4"  
 - Metric ISO 262 M5



All tubes compatible with the internal diameter, to be used only with suitable clamps



**Body:** Nickel-plated brass  
 Turning: UNI EN 12164 CW 614N  
 Hot forging & machining: UNI EN 12165 CW 617N  
**O-ring:** NBR 70

**AVAILABILITY:**

- Available on request and with minimum quantity in yellow brass
- Available on request with Viton o-ring



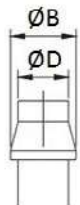
Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**DIAMETER OF TH BARB**  
 BARB CONNECTORS - BRASS

ØD (mm)	Ø4,5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø12	Ø14	Ø17	Ø18	Ø19	Ø21	Ø25	Ø27
ØB (mm)	4,8	6,3	7,3	8,3	9,3	10,3	12,3	14,3	17,3	18,3	19,3	21,3	25,3	27,3



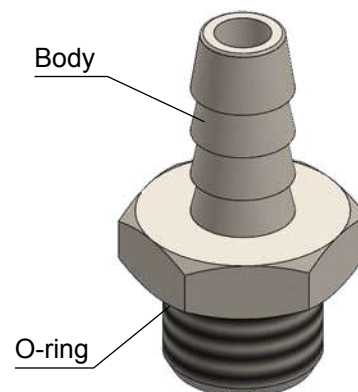
**TIGHTENING TORQUE**  
 TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nm	8	12	14	16	18	20

**TIGHTENING TORQUE**  
 PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

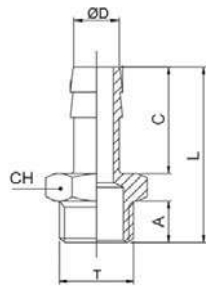
THREAD	M5x0,8	1/8"	1/4"	3/8"	1/2"	3/4"
Nm	0,8	5	8	10	12	14

**CONSTRUCTION DETAILS**



1165

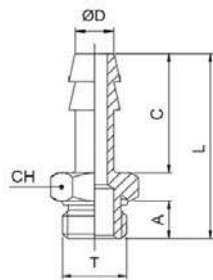
Male barb connector BSPP & metric thread



CODE	T	ØD	A	C	L	CH	g
1165TRM545	M5x0,8	4,5	4,0	15,0	22,5	8	6,0
1165TR186	G 1/8"	6	6,0	19,0	29,5	12	8,0
1165TR146	G 1/4"	6	8,0	19,0	32,0	14	12,0
1165TR187	G 1/8"	7	6,0	19,0	29,5	12	8,0
1165TR147	G 1/4"	7	8,0	19,0	32,0	14	14,0
1165TR188	G 1/8"	8	6,0	19,0	29,5	12	8,0
1165TR148	G 1/4"	8	8,0	19,0	32,0	14	14,0
1165TR388	G 3/8"	8	9,0	19,0	33,0	19	22,0
1165TR189	G 1/8"	9	6,0	19,0	29,5	12	10,0
1165TR149	G 1/4"	9	8,0	19,0	32,0	14	14,0
1165TR389	G 3/8"	9	9,0	19,0	33,0	19	22,0
1165TR1810	G 1/8"	10	6,0	20,0	30,5	12	10,0
1165TR1410	G 1/4"	10	8,0	20,0	33,0	14	14,0
1165TR3810	G 3/8"	10	9,0	20,0	34,0	19	23,0
1165TR1412	G 1/4"	12	8,0	20,0	33,0	14	16,0
1165TR3812	G 3/8"	12	9,0	20,0	34,0	19	24,0
1165TR1212	G 1/2"	12	10,0	20,0	35,5	22	32,0
1165TR3814	G 3/8"	14	9,0	22,0	36,0	19	26,0
1165TR1214	G 1/2"	14	10,0	22,0	37,5	22	34,0
1165TR3817	G 3/8"	17	9,0	24,0	38,0	19	30,0
1165TR1217	G 1/2"	17	10,0	24,0	39,5	22	38,0
1165TR3418	G 3/4"	18	11,0	24,0	41,5	30	58,0
1165TR1220	G 1/2"	20	10,0	24,0	39,5	22	40,0
1165TR3420	G 3/4"	20	11,0	24,0	41,5	30	60,0

1167

Male barb connector BSPP & metric thread with O-ring

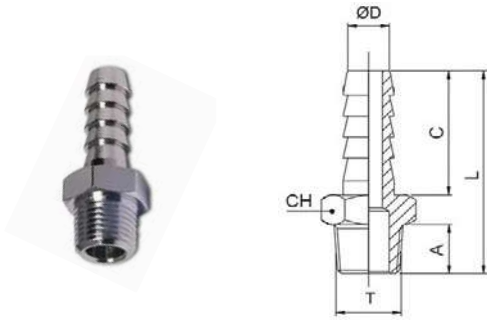


CODE	T	ØD	A	C	L	CH	g
1167TRM545	M5x0,8	4,5	4,5	15,0	23,0	8	6,0
1167TR186	G 1/8"	6	6,5	19,0	30,0	14	10,0
1167TR146	G 1/4"	6	8,0	19,0	32,0	17	16,0
1167TR386	G 3/8"	6	9,0	19,0	33,0	20	-
1167TR187	G 1/8"	7	6,5	19,0	30,0	14	10,0
1167TR147	G 1/4"	7	8,0	19,0	32,0	17	16,0
1167TR188	G 1/8"	8	6,5	19,0	30,0	14	12,0
1167TR148	G 1/4"	8	8,0	19,0	32,0	17	17,0
1167TR388	G 3/8"	8	9,0	19,0	33,0	20	-
1167TR189	G 1/8"	9	6,5	19,0	30,0	14	14,0
1167TR149	G 1/4"	9	8,0	19,0	32,0	17	16,0
1167TR389	G 3/8"	9	9,0	19,0	33,0	20	22,0
1167TR1810	G 1/8"	10	6,5	19,0	30,0	14	-
1167TR1410	G 1/4"	10	8,0	19,0	32,0	17	-
1167TR1412	G 1/4"	12	8,0	20,0	33,0	17	18,0
1167TR3812	G 3/8"	12	9,0	20,0	34,0	20	24,0
1167TR1212	G 1/2"	12	10,0	20,0	35,5	24	35,0
1167TR3817	G 3/8"	17	9,0	24,0	38,0	20	30,0
1167TR1217	G 1/2"	17	10,0	24,0	39,5	24	42,0



## 1169

## Male barb connector BSPT thread

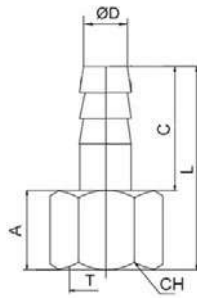


CODE	T	ØD	A	C	L	CH	g
1169TR186	R 1/8"	6	8,0	19,0	31,5	12	8,0
1169TR146	R 1/4"	6	11,0	19,0	35,0	14	14,0
1169TR187	R 1/8"	7	8,0	19,0	31,5	12	10,0
1169TR147	R 1/4"	7	11,0	19,0	35,0	14	14,0
1169TR188	R 1/8"	8	8,0	19,0	31,5	12	10,0
1169TR148	R 1/4"	8	11,0	19,0	35,0	14	14,0
1169TR189	R 1/8"	9	8,0	19,0	31,5	12	12,0
1169TR149	R 1/4"	9	11,0	19,0	35,0	14	16,0
1169TR389	R 3/8"	9	11,5	19,0	35,5	17	20,0
1169TR129	R 1/2"	9	14,0	19,0	38,5	22	32,0
1169TR1810	R 1/8"	10	8,0	20,0	32,5	12	10,0
1169TR1410	R 1/4"	10	11,0	20,0	36,0	14	16,0
1169TR3810	R 3/8"	10	11,5	20,0	36,5	17	22,0
1169TR1210	R 1/2"	10	14,0	20,0	39,5	22	32,0
1169TR1412	R 1/4"	12	11,0	20,0	36,0	14	16,0
1169TR3812	R 3/8"	12	11,5	20,0	36,5	17	22,0
1169TR1212	R 1/2"	12	14,0	20,0	39,5	22	34,0
1169TR3814	R 3/8"	14	11,5	22,0	38,5	17	24,0
1169TR1214	R 1/2"	14	14,0	22,0	41,5	22	36,0
1169TR3816	R 3/8"	16	11,5	22,0	38,5	17	26,0
1169TR1216	R 1/2"	16	14,0	22,0	41,5	22	36,0
1169TR3416	R 3/4"	16	16,5	22,0	45,0	27	58,0
1169TR3817	R 3/8"	17	11,5	24,0	40,5	18	30,0
1169TR1217	R 1/2"	17	14,0	24,0	43,5	22	40,0
1169TR3818	R 3/8"	18	11,5	24,0	40,5	19	34,0
1169TR1218	R 1/2"	18	14,0	24,0	43,5	22	44,0
1169TR3418	R 3/4"	18	16,5	24,0	47,0	27	62,0
1169TR3820	R 3/8"	20	11,5	24,0	41,0	22	40,0
1169TR1220	R 1/2"	20	14,0	24,0	43,5	22	42,0
1169TR3420	R 3/4"	20	16,5	24,0	46,5	27	60,0
1169TR1221	R 1/2"	21	14,0	34,0	53,5	22	-
1169TR3421	R 3/4"	21	16,5	34,0	56,5	27	-
1169TR121	R 1"	21	19,0	34,0	60,0	34	-
1169TR3425	R 3/4"	25	16,5	30,0	53,0	27	76,0
1169TR125	R 1"	25	19,0	30,0	56,0	34	114,0
1169TR3427	R 3/4"	27	16,5	38,0	60,5	32	-
1169TR127	R 1"	27	19,0	38,0	64,0	34	-



1170

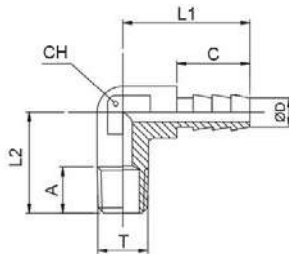
Female barb connector BSPP thread



CODE	T	ØD	A	C	L	CH	g
1170TR186	G 1/8"	6	8,0	19,0	28,5	12	7,5
1170TR146	G 1/4"	6	11,0	19,0	31,5	15	-
1170TR187	G 1/8"	7	8,0	19,0	28,5	12	9,0
1170TR147	G 1/4"	7	11,0	19,0	31,5	15	21,0
1170TR188	G 1/8"	8	8,0	19,0	28,5	12	8,0
1170TR148	G 1/4"	8	11,0	19,0	31,5	15	19,0
1170TR189	G 1/8"	9	8,0	19,0	28,5	12	9,0
1170TR149	G 1/4"	9	11,0	19,0	31,5	15	20,0
1170TR389	G 3/8"	9	11,5	19,0	32,0	19	-
1170TR1810	G 1/8"	10	8,0	20,0	29,5	12	-
1170TR1410	G 1/4"	10	11,0	20,0	32,5	15	12,5
1170TR3810	G 3/8"	10	11,5	20,0	33,0	19	17,0
1170TR1210	G 1/2"	10	14,0	20,0	36,0	24	-
1170TR1412	G 1/4"	12	11,0	20,0	32,5	15	22,0
1170TR3812	G 3/8"	12	11,5	20,0	33,0	19	18,0
1170TR1212	G 1/2"	12	14,0	20,0	36,0	24	33,0
1170TR3814	G 3/8"	14	11,5	22,0	35,0	19	-
1170TR1214	G 1/2"	14	14,0	22,0	38,0	24	35,5
1170TR3816	G 3/8"	16	11,5	22,0	35,0	19	-
1170TR1216	G 1/2"	16	14,0	22,0	38,0	24	-
1170TR3817	G 3/8"	17	11,5	24,0	37,0	19	-
1170TR1217	G 1/2"	17	14,0	24,0	40,0	24	-
1170TR1218	G 1/2"	18	14,0	24,0	40,0	24	-
1170TR3418	G 3/4"	18	15,0	24,0	41,5	29	-
1170TR3420	G 3/4"	20	15,0	24,0	41,5	29	-
1170TR3425	G 3/4"	25	15,0	30,0	47,5	29	-

1171

Male elbow barb connector BSPT thread

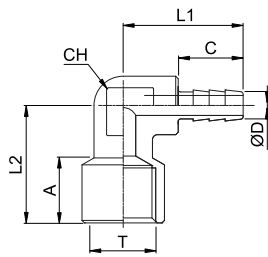


CODE	T	ØD	A	C	L1	L2	CH	g
1171TR186185	R 1/8"	6	8,0	14,0	22,5	18,5	8	10,0
1171TR18623	R 1/8"	6	10,0	14,0	22,5	23,0	8	12,0
1171TR14623	R 1/4"	6	11,0	14,0	23,0	23,0	9	16,0
1171TR187185	R 1/8"	7	8,0	14,0	22,5	18,5	8	10,0
1171TR18723	R 1/8"	7	10,0	14,0	22,5	23,0	8	10,0
1171TR14723	R 1/4"	7	11,0	14,0	23,0	23,0	9	16,0
1171TR18819	R 1/8"	8	10,0	14,0	22,5	19,0	10	-



**1174**

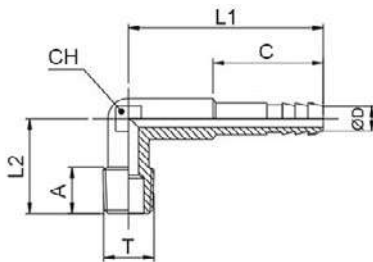
Female elbow barb connector BSPP thread



CODE	T	ØD	A	C	L1	L2	CH	g
1174TR186	G 1/8"	6	8,0	13,0	22,0	22,0	9	-
1174TR146	G 1/4"	6	11,0	13,0	24,0	23,5	13	-
1174TR187	G 1/8"	7	8,0	13,0	24,0	22,0	9	-
1174TR147	G 1/4"	7	11,0	13,0	24,0	23,5	13	-

**1172**

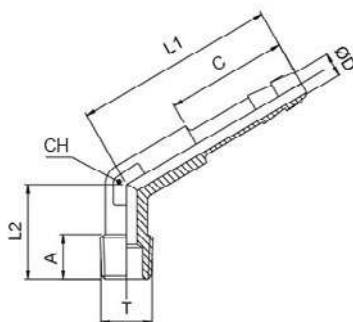
Long series elbow barb connector BSPT thread



CODE	T	ØD	A	C	L1	L2	CH	g
1172TR186325	R 1/8"	6	10,0	14,0	32,5	22,0	9	18,0
1172TR18638	R 1/8"	6	8,0	22,0	38,0	18,5	8	14,0
1172TR146325	R 1/4"	6	11,0	14,0	32,5	23,0	9	20,0
1172TR187325	R 1/8"	7	11,0	14,0	32,5	22,0	9	16,0
1172TR18738	R 1/8"	7	8,0	22,0	38,0	18,5	8	14,0
1172TR147325	R 1/4"	7	11,0	14,0	32,5	23,0	9	20,0

**1173**

Long serie elbow 120° barb connector BSPT thread



CODE	T	ØD	A	C	L1	L2	CH	g
1173TR186	R 1/8"	6	8,0	23,0	38,0	18,5	8	14,0
1173TR187	R 1/8"	7	8,0	23,0	38,0	18,5	8	12,0







**BARB  
CONNECTORS  
NYLON**



**PLUS**

**SUITABLE FOR FOOD FLUIDS**

---

**STRONG AND RESISTANT TO  
IMPACTS**

---

**DESIGNED TO HAVE AN INTERNAL  
DIAMETER WITH MAXIMUM FLOW  
RATE**

---

**USABLE WITH 5090 SERIES CLAMPS  
FOR A BETTER GRIP AND SAFETY**

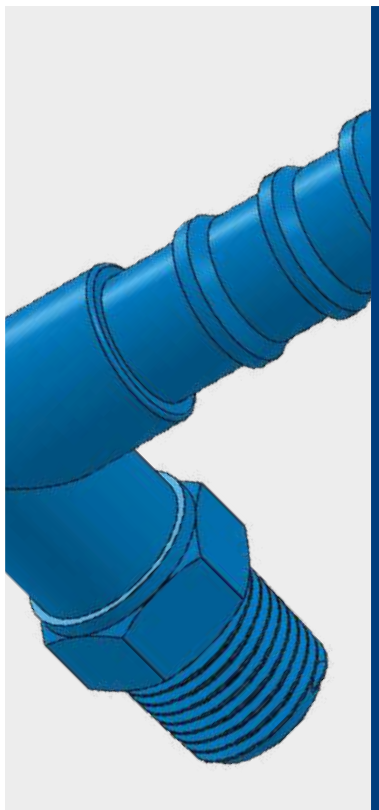
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**SUITABLE FOR DOMESTIC AND  
INDUSTRIAL USE**



					
p. 220 / <b>5005</b>	p. 220 / <b>5010</b>	p. 221 / <b>5020</b>	p. 222 / <b>5025</b>	p. 222 / <b>5030</b>	p. 223 / <b>5035</b>
					
p. 223 / <b>5040</b>	p. 223 / <b>5045</b>	p. 224 / <b>5050</b>	p. 224 / <b>5055</b>	p. 224 / <b>5060</b>	p. 225 / <b>5070</b>
					
p. 226 / <b>5007</b>	p. 226 / <b>5015</b>	p. 227 / <b>5022</b>	p. 228 / <b>5027</b>	p. 228 / <b>5032</b>	p. 228 / <b>5037</b>
					
p. 229 / <b>5042</b>	p. 229 / <b>5047</b>	p. 230 / <b>5052</b>	p. 230 / <b>5057</b>	p. 230 / <b>5062</b>	





-20°C ÷ +110°C  
Subject to applications



**Working pressure:**  
14 Bar (at 20°C)  
Depending on the tube used



Compressed air, water and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1"
- Parallel gas BSPP ISO 228 from G1/8" to G3/4"
- NPT from N1/8" to N3/4"



Plastic, silicone, rubber and soft PVC tubes



Body: Nylon 66

**FEATURES**

The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.



Food contact materials  
EC 1935/2004



D.M. 174/2004



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**DIAMETER OF THE BARB**

BARB CONNECTORS - NYLON - TAPER GAS BSPT ISO 7

ØD (mm)	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø19	Ø25
ØB (mm)	5,2	6,3	8,0	10,0	12,0	14,0	16,2	18,2	21,0	26,0



**DIAMETER OF THE BARB**

BARB CONNECTORS - NYLON - NPT

ØD (inch)	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	9/16"	5/8"	11/16"	3/4"
ØB (mm)	5,3	6,3	8,0	9,8	12,0	13,8	-	17,5	-	21,0

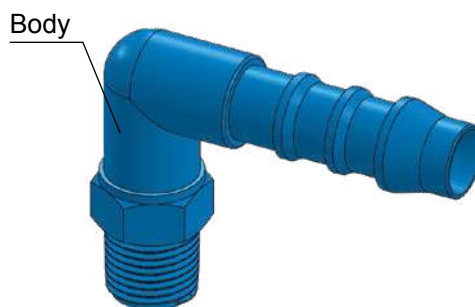


**TIGHTENING TORQUE**

TAPER GAS BSPT ISO 7

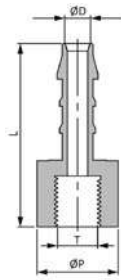
THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nm	0,1	0,8	4	6	8	10

**CONSTRUCTION DETAILS**



5005

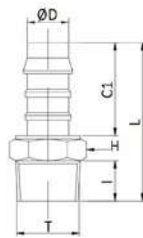
Female barb connector BSPT thread



CODE	T	ØD	H	L	g
5005TR185	R 1/8"	5	14	34,4	2,0
5005TR145	R 1/4"	5	17	35,2	2,7
5005TR385	R 3/8"	5	22	36,5	4,57
5005TR125	R 1/2"	5	26	38,7	6,6
5005TR186	R 1/8"	6	14	36,3	2,15
5005TR146	R 1/4"	6	17	37,2	2,9
5005TR386	R 3/8"	6	22	38,3	4,8
5005TR126	R 1/2"	6	26	40,8	7,0
5005TR188	R 1/8"	8	14	39,4	2,5
5005TR148	R 1/4"	8	17	39,4	3,2
5005TR388	R 3/8"	8	22	40,4	5,0
5005TR128	R 1/2"	8	26	42,7	7,1
5005TR1410	R 1/4"	10	17	41,5	3,6
5005TR3810	R 3/8"	10	22	42,3	5,4
5005TR1210	R 1/2"	10	26	45,0	7,5
5005TR1412	R 1/4"	12	17	42,4	4,1
5005TR3812	R 3/8"	12	22	43,3	6,2
5005TR1212	R 1/2"	12	26	46,0	8,0
5005TR3814	R 3/8"	14	22	45,0	6,9
5005TR1214	R 1/2"	14	26	47,3	8,7
5005TR1216	R 1/2"	16	26	48,1	9,0
5005TR1219	R 1/2"	19	26	48,8	9,5

5010

Male barb connector BSPT thread

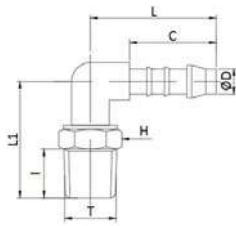


CODE	T	ØD	I	C1	L	H	g
5010TR184	R 1/8"	4	8,0	16,0	31,2	11	1,0
5010TR144	R 1/4"	4	10,0	16,0	33,8	14	1,2
5010TR185	R 1/8"	5	8,0	21,0	34,7	11	1,0
5010TR145	R 1/4"	5	10,0	21,0	38,3	14	1,0
5010TR125	R 1/2"	5	10,0	21,0	41,4	22	1,0
5010TR186	R 1/8"	6	8,0	23,0	35,3	11	1,0
5010TR146	R 1/4"	6	10,0	23,0	39,2	14	2,0
5010TR386	R 3/8"	6	10,0	23,0	39,1	17	3,0
5010TR126	R 1/2"	6	12,5	23,0	42,3	22	6,0
5010TR346	R 3/4"	6	14,5	23,0	43,0	22	8,2
5010TR188	R 1/8"	8	8,0	25,0	39,8	11	2,0
5010TR148	R 1/4"	8	10,0	25,0	43,0	14	2,0
5010TR388	R 3/8"	8	10,0	25,0	43,0	17	3,0
5010TR128	R 1/2"	8	12,5	25,0	46,1	22	6,0
5010TR348	R 3/4"	8	12,5	25,0	47,1	27	6,0
5010TR1410	R 1/4"	10	10,0	27,0	45,2	14	1,0
5010TR3810	R 3/8"	10	10,0	27,0	45,2	17	4,0
5010TR1210	R 1/2"	10	12,5	27,0	48,3	22	6,0
5010TR3410	R 3/4"	10	14,5	27,0	49,3	27	9,1
5010TR1412	R 1/4"	12	10,0	28,0	46,0	14	4,0
5010TR3812	R 3/8"	12	10,0	28,0	46,0	17	4,0
5010TR1212	R 1/2"	12	12,5	28,0	49,3	22	7,0
5010TR3412	R 3/4"	12	14,5	28,0	50,0	27	9,2
5010TR3814	R 3/8"	14	10,0	29,5	47,5	17	6,0
5010TR1214	R 1/2"	14	12,5	29,5	50,8	22	7,0
5010TR3414	R 3/4"	14	14,5	29,5	51,7	27	9,8
5010TR1216	R 1/2"	16	12,5	30,0	51,3	22	8,0
5010TR3416	R 3/4"	16	14,5	30,0	52,2	27	10,0
5010TR1219	R 1/2"	19	12,5	31,0	52,2	22	9,0
5010TR3419	R 3/4"	19	14,5	31,0	53,3	27	15,0
5010TR119	R 1"	19	21,0	31,0	60,1	27	18,8
5010TR3425	R 3/4"	25	14,0	32,0	54,8	27	-
5010TR0125	R 1"	25	18,0	39,5	66,6	35	-



## 5020

## Male elbow barb connector BSPT thread

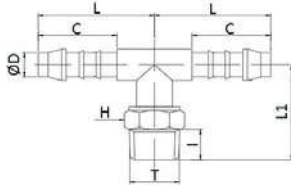


CODE	T	OD	I	C	L	L1	H	g
5020TR184	R 1/8"	4	8,0	16,0	22,5	21,0	11	1,0
5020TR144	R 1/4"	4	10,0	16,0	22,5	24,0	14	1,0
5020TR185	R 1/8"	5	8,0	21,0	28,0	24,0	11	1,0
5020TR145	R 1/4"	5	10,0	21,0	28,0	26,0	14	3,0
5020TR125	R 1/2"	5	13,0	21,0	28,0	30,0	22	6,0
5020TR186	R 1/8"	6	8,5	23,5	31,5	23,5	11	1,0
5020TR146	R 1/4"	6	10,0	23,0	31,0	26,0	14	3,0
5020TR386	R 3/8"	6	10,5	23,0	31,0	26,0	17	3,0
5020TR126	R 1/2"	6	13,0	23,5	31,5	30,0	22	7,0
5020TR188	R 1/8"	8	8,0	25,0	36,0	26,0	11	3,0
5020TR148	R 1/4"	8	10,0	25,0	36,0	28,0	14	3,0
5020TR388	R 3/8"	8	10,5	25,0	36,0	28,0	17	5,0
5020TR128	R 1/2"	8	13,0	25,0	36,0	30,5	22	7,0
5020TR1410	R 1/4"	10	10,0	27,0	39,0	28,0	14	4,0
5020TR3810	R 3/8"	10	10,5	27,0	39,0	28,0	17	6,0
5020TR1210	R 1/2"	10	13,0	27,0	39,0	30,5	22	8,0
5020TR3410	R 3/4"	10	14,5	27,0	39,0	33,5	27	9,9
5020TR1412	R 1/4"	12	10,0	28,0	41,0	28,0	14	7,0
5020TR3812	R 3/8"	12	10,5	28,0	41,0	28,0	17	8,0
5020TR1212	R 1/2"	12	13,0	28,0	41,0	32,0	22	9,0
5020TR3412	R 3/4"	12	14,5	28,0	41,0	34,0	27	12,0
5020TR3814	R 3/8"	14	10,5	29,5	42,5	31,5	17	9,0
5020TR1214	R 1/2"	14	13,0	29,5	42,5	34,0	22	11,0
5020TR3414	R 3/4"	14	14,5	29,5	42,5	37,5	27	14,4
5020TR1216	R 1/2"	16	12,5	30,0	44,0	36,0	22	13,0
5020TR3416	R 3/4"	16	14,5	30,0	44,0	39,0	27	14,0
5020TR1219	R 1/2"	19	12,5	31,0	45,0	36,0	22	15,0
5020TR3419	R 3/4"	19	15,0	31,0	45,0	38,0	27	16,6



5025

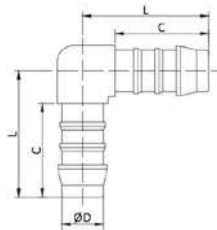
Male tee barb connector BSPT thread



CODE	T	ØD	I	C	L	L1	H	g
5025TR184	R 1/8"	4	8,0	16,0	19,7	18,5	11	1,0
5025TR144	R 1/4"	4	10,5	16,0	22,6	21,5	14	2,5
5025TR185	R 1/8"	5	8,0	21,0	25,5	19,5	11	1,0
5025TR145	R 1/4"	5	10,5	21,0	28,2	22,5	14	3,0
5025TR186	R 1/8"	6	8,5	23,5	28,0	23,5	11	1,0
5025TR146	R 1/4"	6	10,5	23,0	31,5	23,0	14	3,0
5025TR386	R 3/8"	6	13,0	23,0	31,5	23,0	17	4,1
5025TR126	R 1/2"	6	12,5	23,0	31,5	27,0	22	7,1
5025TR188	R 1/8"	8	8,0	25,0	30,8	21,5	11	3,0
5025TR148	R 1/4"	8	10,5	25,0	36,3	24,5	14	5,0
5025TR388	R 3/8"	8	10,5	25,0	36,3	24,5	17	6,0
5025TR128	R 1/2"	8	13,0	25,0	31,0	28,5	22	7,5
5025TR1410	R 1/4"	10	10,0	27,0	39,3	28,0	14	6,4
5025TR3810	R 3/8"	10	10,5	27,0	39,3	28,0	17	7,3
5025TR1210	R 1/2"	10	12,5	27,0	39,5	30,5	22	9,6
5025TR3410	R 3/4"	10	13,0	27,0	39,5	31,5	27	11,8
5025TR1412	R 1/4"	12	10,0	28,0	41,3	28,0	14	15,0
5025TR3812	R 3/8"	12	10,5	28,0	41,3	28,0	17	9,0
5025TR1212	R 1/2"	12	13,0	28,0	41,3	31,5	22	12,6
5025TR3412	R 3/4"	12	13,0	28,0	41,3	31,5	27	14,3
5025TR3814	R 3/8"	14	10,5	29,5	42,8	31,5	17	12,8
5025TR1214	R 1/2"	14	12,5	29,5	42,8	34,0	22	15,0
5025TR3414	R 3/4"	14	13,0	30,0	42,8	35,0	27	17,9
5025TR1216	R 1/2"	16	12,5	30,0	44,1	36,0	22	15,0
5025TR3416	R 3/4"	16	13,5	30,0	44,2	37,0	27	18,6
5025TR1219	R 1/2"	19	12,5	31,0	45,1	36,0	22	19,6
5025TR3419	R 3/4"	19	13,5	31,0	45,3	36,0	27	21,6

5030

Union elbow barb connector

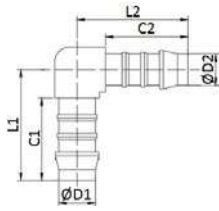


CODE	ØD	C	L	g
5030TR4	4	16,0	23,0	1,0
5030TR5	5	21,0	28,5	1,2
5030TR6	6	23,0	31,5	1,5
5030TR8	8	25,0	36,5	3,0
5030TR10	10	27,0	39,0	4,0
5030TR12	12	28,0	40,0	7,0
5030TR14	14	29,5	42,5	9,0
5030TR16	16	30,0	44,0	11,0
5030TR19	19	31,0	45,0	13,0



## 5035

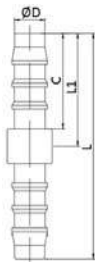
## Reduced union elbow barb connector



CODE	ØD1	ØD2	C1	C2	L1	L2	g
5035TR54	5	4	21,0	16,0	28,5	23,0	1,0
5035TR64	6	4	21,0	16,0	35,5	29,0	1,0
5035TR65	6	5	23,0	21,0	31,5	28,5	1,5
5035TR86	8	6	25,0	23,0	36,5	31,5	2,0
5035TR106	10	6	27,0	23,0	39,0	31,5	3,8
5035TR108	10	8	27,0	25,0	39,0	36,5	4,0
5035TR1210	12	10	28,0	27,0	40,0	39,0	7,0
5035TR1412	14	12	29,5	28,0	42,5	40,0	9,0
5035TR1614	16	14	30,0	29,5	44,0	42,5	11,0
5035TR1916	19	16	31,0	30,0	45,0	44,0	14,0

## 5040

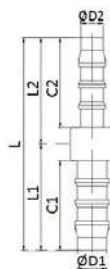
## Union barb connector



CODE	ØD	C	L	L1	g
5040TR4	4	16,0	36,6	18,0	1,0
5040TR5	5	21,0	48,5	23,5	1,2
5040TR6	6	23,0	52,2	26,0	1,5
5040TR8	8	25,0	59,3	29,0	2,0
5040TR10	10	27,0	63,0	31,5	3,0
5040TR12	12	28,0	66,0	33,0	4,0
5040TR14	14	29,5	71,8	35,5	7,5
5040TR16	16	30,0	72,5	36,0	9,0
5040TR19	19	31,0	73,5	37,0	11,0

## 5045

## Reduced union barb connector

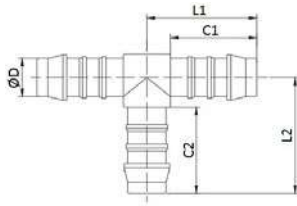


CODE	ØD1	ØD2	C1	C2	L	L1	L2	g
5045TR54	5	4	21,0	16,0	42,2	23,5	18,0	1,0
5045TR64	6	4	23,0	16,0	45,7	26,0	18,0	1,0
5045TR65	6	5	23,0	21,0	50,6	26,0	23,5	1,0
5045TR85	8	5	25,0	21,0	54,4	29,5	23,5	2,0
5045TR86	8	6	25,0	23,0	56,3	29,0	26,0	3,0
5045TR106	10	6	27,0	23,0	58,9	31,5	26,0	3,0
5045TR108	10	8	27,0	25,0	62,0	31,5	29,0	3,0
5045TR128	12	8	28,0	25,0	63,8	33,0	29,0	3,0
5045TR1210	12	10	28,0	27,0	65,3	33,0	31,5	5,0
5045TR1410	14	10	29,5	27,0	69,0	35,5	31,5	6,0
5045TR1412	14	12	29,5	28,0	70,0	35,5	33,0	7,0
5045TR1612	16	12	30,0	28,0	70,3	36,0	33,0	7,0
5045TR1614	16	14	30,0	29,5	71,7	36,0	35,5	8,0
5045TR1914	19	14	31,0	29,5	72,7	37,0	35,5	10,0
5045TR1916	19	16	31,0	30,0	73,2	37,0	36,0	10,0



**5050**

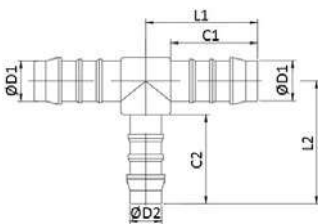
Union tee barb connector



CODE	ØD	C1	C2	L1	L2	g
5050TR4	4	16,0	16,0	20,0	20,5	1,0
5050TR5	5	21,0	21,0	25,5	26,5	1,0
5050TR6	6	23,0	23,0	28,0	29,0	1,0
5050TR8	8	25,0	25,0	30,8	32,5	3,0
5050TR10	10	27,0	27,0	33,5	33,5	5,0
5050TR12	12	28,0	28,0	35,5	37,5	8,0
5050TR14	14	29,5	29,5	38,3	42,5	12,0
5050TR16	16	30,0	30,0	39,8	44,0	13,0
5050TR19	19	31,0	31,0	40,0	45,0	17,0

**5055**

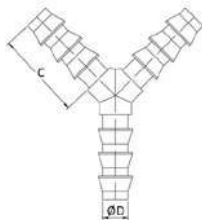
Reduced union tee barb connector



CODE	ØD1	ØD2	C1	C2	L1	L2	g
5055TR54	5	4	21,0	16,0	25,3	21,5	1,0
5055TR65	6	5	23,0	21,0	27,8	27,0	2,0
5055TR86	8	6	25,0	23,0	30,7	30,5	3,0
5055TR108	10	8	27,0	25,0	33,2	34,0	4,0
5055TR1210	12	10	28,0	27,0	35,3	36,5	7,0
5055TR1412	14	12	29,5	28,0	38,3	38,5	11,0
5055TR1614	16	14	30,0	29,5	39,7	41,5	13,0
5055TR1916	19	16	31,0	30,0	42,3	43,0	17,0

**5060**

Union Y barb connector



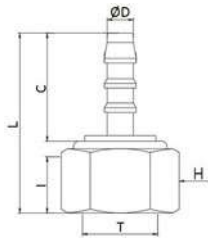
CODE	ØD	C	g
5060TR4	4	16,5	1,0
5060TR6	6	23,5	1,5
5060TR8	8	25,5	3,0
5060TR10	10	24,0	5,0
5060TR17	17	24,0	7,0





## 5070

## Swivel female barb connector BSPP thread

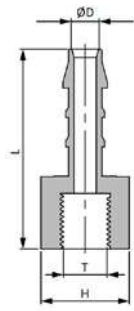


CODE	T	ØD	I	C	L	H	g
5070TR184	G 1/8"	4	10,0	16,0	27,5	13	1,0
5070TR144	G 1/4"	4	14,2	16,0	31,7	16	1,0
5070TR185	G 1/8"	5	10,0	21,0	32,0	13	1,2
5070TR145	G 1/4"	5	15,0	21,0	36,2	16	1,5
5070TR385	G 3/8"	5	14,5	21,0	36,0	20	2,0
5070TR146	G 1/4"	6	15,0	23,0	37,3	16	2,0
5070TR386	G 3/8"	6	14,5	23,0	36,8	20	3,0
5070TR126	G 1/2"	6	17,0	23,0	39,5	24	6,0
5070TR148	G 1/4"	8	14,2	25,0	41,3	16	2,0
5070TR388	G 3/8"	8	14,5	25,0	40,8	20	2,0
5070TR128	G 1/2"	8	17,0	25,0	43,6	24	3,0
5070TR348	G 3/4"	8	17,0	25,0	43,4	30	6,0
5070TR3810	G 3/8"	10	14,5	27,0	42,8	20	4,0
5070TR1210	G 1/2"	10	17,0	27,0	43,6	24	6,0
5070TR3410	G 3/4"	10	17,0	27,0	45,6	30	9,0
5070TR1212	G 1/2"	12	17,0	28,0	46,7	24	8,0
5070TR3412	G 3/4"	12	17,0	28,0	46,5	30	10,0
5070TR1214	G 1/2"	14	17,0	29,5	50,0	24	8,0
5070TR3414	G 3/4"	14	17,0	29,5	48,0	30	10,0
5070TR3416	G 3/4"	16	17,0	30,0	48,5	30	11,0
5070TR3419	G 3/4"	19	17,0	31,0	49,3	30	16,0



5007

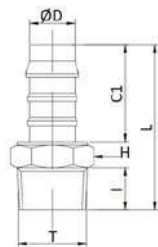
Female barb connector NPT thread



CODE	T	ØD	L	H	g
5007TR1814	N 1/8"	1/4"	36,7	14	2,24
5007TR1414	N 1/4"	1/4"	40,1	17	3,5
5007TR3814	N 3/8"	1/4"	40,0	22	5,29
5007TR1214	N 1/2"	1/4"	43,7	27	7,95
5007TR18516	N 1/8"	5/16"	38,9	14	2,5
5007TR14516	N 1/4"	5/16"	41,8	17	3,58
5007TR38516	N 3/8"	5/16"	42,0	22	5,6
5007TR12516	N 1/2"	5/16"	45,0	27	8,1
5007TR1438	N 1/4"	3/8"	44,1	17	4,09
5007TR3838	N 3/8"	3/8"	43,9	22	6,1
5007TR1238	N 1/2"	3/8"	47,2	27	8,7
5007TR1412	N 1/4"	1/2"	44,7	17	4,64
5007TR3812	N 3/8"	1/2"	45,2	22	6,55
5007TR1212	N 1/2"	1/2"	48,8	27	9,2
5007TR38916	N 3/8"	9/16"	46,5	22	-
5007TR12916	N 1/2"	9/16"	50,3	27	-
5007TR1258	N 1/2"	5/8"	50,4	27	10,1
5007TR1234	N 1/2"	3/4"	51,7	27	10,6

5015

Male barb connector NPT thread

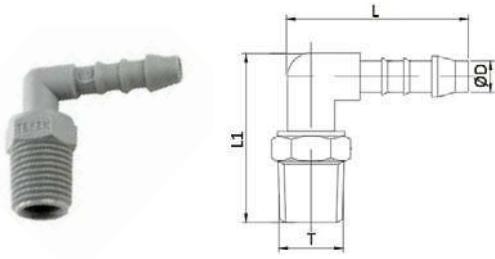


CODE	T	ØD	I	C1	L	H	g
5015TR18532	N 1/8"	5/32"	8,0	16,0	30,7	11	1,0
5015TR14532	N 1/4"	5/32"	13,0	16,0	35,3	14	1,0
5015TR18316	N 1/8"	3/16"	9,0	21,0	36,3	11	1,0
5015TR14316	N 1/4"	3/16"	13,0	21,0	39,7	14	1,0
5015TR1814	N 1/8"	1/4"	9,0	23,0	36,1	11	1,5
5015TR14	N 1/4"	1/4"	13,0	23,0	40,6	14	1,0
5015TR3814	N 3/8"	1/4"	13,0	23,0	42,0	17	3,0
5015TR1214	N 1/2"	1/4"	18,0	23,0	46,7	22	6,4
5015TR18516	N 1/8"	5/16"	9,0	25,0	40,2	11	1,8
5015TR14516	N 1/4"	5/16"	13,0	25,0	44,7	14	2,7
5015TR38516	N 3/8"	5/16"	13,0	25,0	46,0	17	4,1
5015TR12516	N 1/2"	5/16"	18,0	25,0	51,0	22	6,8
5015TR1438	N 1/4"	3/8"	13,0	27,0	46,5	14	3,0
5015TR38	N 3/8"	3/8"	13,0	27,0	47,7	17	5,0
5015TR1238	N 1/2"	3/8"	18,0	27,0	53,2	22	7,4
5015TR3438	N 3/4"	3/8"	19,0	27,0	54,3	27	9,8
5015TR1412	N 1/4"	1/2"	13,0	28,0	47,7	14	3,5
5015TR3812	N 3/8"	1/2"	13,0	28,0	49,0	17	5,0
5015TR12	N 1/2"	1/2"	18,0	28,0	53,7	22	7,6
5015TR3412	N 3/4"	1/2"	19,0	28,0	54,7	27	10,3
5015TR38916	N 3/8"	9/16"	13,0	-	51,0	17	-
5015TR12916	N 1/2"	9/16"	18,0	-	55,4	22	-
5015TR34916	N 3/4"	9/16"	19,0	-	56,1	27	-
5015TR1258	N 1/2"	5/8"	18,0	30,0	56,3	22	8,5
5015TR3458	N 3/4"	5/8"	19,0	30,0	56,8	27	11,2
5015TR1234	N 1/2"	3/4"	18,0	31,0	57,0	22	9,1
5015TR34	N 3/4"	3/4"	19,0	31,0	57,7	27	11,9



## 5022

## Male elbow barb connector NPT thread

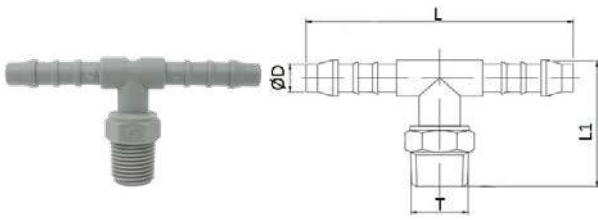


CODE	T	ØD	L	L1	g
5022TR18532	N 1/8"	5/32"	25,7	26,0	1,58
5022TR14532	N 1/4"	5/32"	25,9	31,1	2,5
5022TR18316	N 1/8"	3/16"	31,8	28,6	2,0
5022TR14316	N 1/4"	3/16"	33,4	31,8	2,0
5022TR12316	N 1/2"	3/16"	41,8	31,8	2,0
5022TR1814	N 1/8"	1/4"	35,4	29,0	2,29
5022TR1414	N 1/4"	1/4"	35,5	33,7	3,3
5022TR3814	N 3/8"	1/4"	35,5	33,8	4,8
5022TR1214	N 1/2"	1/4"	42,2	35,5	6,7
5022TR18516	N 1/8"	5/16"	41,5	32,1	3,30
5022TR14516	N 1/4"	5/16"	41,2	36,7	4,25
5022TR38516	N 3/8"	5/16"	41,5	36,6	5,4
5022TR12516	N 1/2"	5/16"	41,5	43,1	8,7
5022TR1438	N 1/4"	3/8"	45,4	37,7	4,8
5022TR3838	N 3/8"	3/8"	45,3	37,5	6,2
5022TR1238	N 1/2"	3/8"	45,4	44,4	7,8
5022TR3438	N 3/4"	3/8"	45,4	44,0	12,4
5022TR1412	N 1/4"	1/2"	48,6	39,0	-
5022TR3812	N 3/8"	1/2"	48,3	28,6	7,8
5022TR1212	N 1/2"	1/2"	48,7	45,2	11,1
5022TR3412	N 3/4"	1/2"	48,7	45,2	14,1
5022TR38916	N 3/8"	9/16"	51,4	42,2	-
5022TR12916	N 1/2"	9/16"	51,4	48,6	-
5022TR34916	N 3/4"	9/16"	51,5	48,5	-
5022TR1258	N 1/2"	5/8"	53,8	51,5	14,4
5022TR3458	N 3/4"	5/8"	53,8	51,4	17,5
5022TR1234	N 1/2"	3/4"	56,6	52,8	16,1
5022TR3434	N 3/4"	3/4"	56,2	53,0	18,8



**5027**

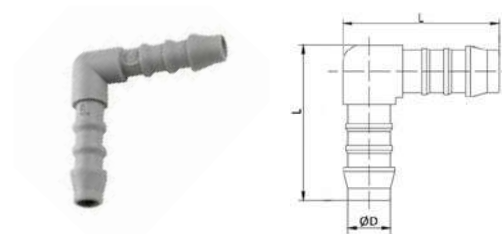
Male tee barb connector NPT thread



CODE	T	ØD	L	L1	g
5027TR12316	N 1/2"	3/16"	56,3	39,3	7,8
5027TR1814	N 1/8"	1/4"	63,0	29,4	-
5027TR1414	N 1/4"	1/4"	63,0	33,8	3,86
5027TR3814	N 3/8"	1/4"	63,0	33,7	6,55
5027TR1214	N 1/2"	1/4"	63,0	40,3	9,57
5027TR18516	N 1/8"	5/16"	72,5	32,3	4,51
5027TR14516	N 1/4"	5/16"	72,5	36,8	5,46
5027TR38516	N 3/8"	5/16"	72,5	36,9	6,65
5027TR12516	N 1/2"	5/16"	72,5	42,8	9,68
5027TR1438	N 1/4"	3/8"	78,5	38,0	5,14
5027TR3838	N 3/8"	3/8"	78,5	37,7	7,78
5027TR1238	N 1/2"	3/8"	78,5	44,0	10,52
5027TR3438	N 3/4"	3/8"	78,5	43,8	13,91
5027TR1412	N 1/4"	1/2"	82,6	39,3	8,62
5027TR3812	N 3/8"	1/2"	82,6	38,8	11,0
5027TR1212	N 1/2"	1/2"	82,6	45,5	14,44
5027TR3412	N 3/4"	1/2"	82,6	45,5	20,42
5027TR1258	N 1/2"	5/8"	88,4	51,5	18,28
5027TR3458	N 3/4"	5/8"	88,4	51,1	21,0
5027TR1234	N 1/2"	3/4"	90,5	53,0	16,6
5027TR3434	N 3/4"	3/4"	90,5	52,5	23,0

**5032**

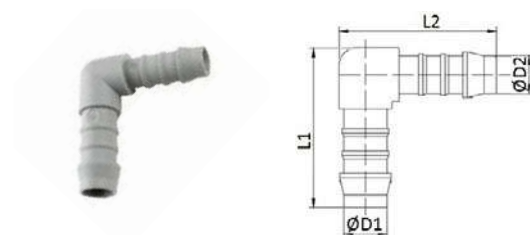
Union elbow barb connector - inch tube



CODE	ØD	L	g
5032TR532	5/32"	25,6	0,65
5032TR316	3/16"	33,2	1,19
5032TR14	1/4"	36,1	1,77
5032TR516	5/16"	41,4	3,18
5032TR38	3/8"	44,6	4,42
5032TR12	1/2"	47,6	6,7
5032TR916	9/16"	51,2	-
5032TR58	5/8"	54,3	11,17
5032TR34	3/4"	56,7	13,6

**5037**

Reduced union elbow barb connector - inch tube

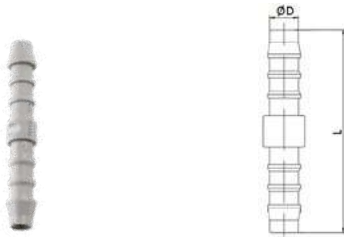


CODE	ØD1	ØD2	L1	L2	g
5037TR316532	3/16"	5/32"	31,8	27,9	1,5
5037TR14316	1/4"	3/16"	35,4	34,1	2,0
5037TR51614	5/16"	1/4"	39,4	41,6	2,3
5037TR3814	3/8"	1/4"	40,2	45,3	3,8
5037TR38516	3/8"	5/16"	42,5	45,5	4,0
5037TR1238	1/2"	3/8"	45,8	48,6	6,5
5037TR91612	9/16"	1/2"	49,8	51,1	-
5037TR58916	5/8"	9/16"	53,6	53,6	-
5037TR3458	3/4"	5/8"	55,8	55,8	7,2



## 5042

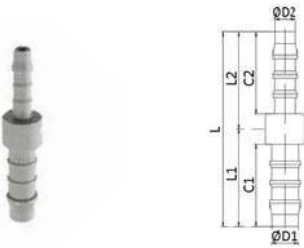
## Union barb connector - inch tube



CODE	ØD	L	g
5042TR532	5/32"	36,6	0,65
5042TR316	3/16"	47,0	1,19
5042TR14	1/4"	52,2	1,77
5042TR516	5/16"	59,3	3,18
5042TR38	3/8"	63,0	4,42
5042TR12	1/2"	66,3	6,7
5042TR916	9/16"	72,0	-
5042TR58	5/8"	71,4	11,17
5042TR1116	11/16"	59,1	-
5042TR34	3/4"	73,8	13,6

## 5047

## Reduced union barb connector - inch tube

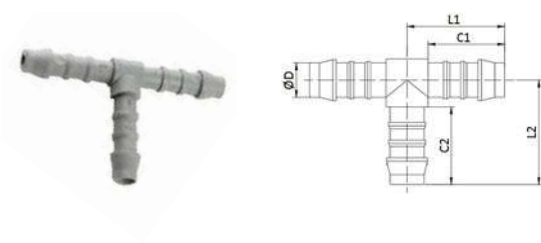


CODE	ØD1	ØD2	C1	C2	L1	L2	L	g
5047TR316532	3/16"	5/32"	16,0	21,0	19,0	24,0	42,2	0,63
5047TR14532	1/4"	5/32"	23,5	21,0	26,0	19,5	45,7	0,86
5047TR14316	1/4"	3/16"	23,5	16,0	26,0	23,5	50,6	1,0
5047TR516316	5/16"	3/16"	24,0	16,0	29,5	23,5	54,4	2,0
5047TR51614	5/16"	1/4"	25,0	23,0	29,0	26,0	56,3	2,1
5047TR3814	3/8"	1/4"	27,0	23,0	31,5	27,0	58,9	2,5
5047TR38516	3/8"	5/16"	27,0	25,0	31,5	29,0	62,0	2,8
5047TR12516	1/2"	5/16"	28,0	25,0	33,0	29,0	63,8	4,1
5047TR1238	1/2"	3/8"	28,0	27,0	33,0	31,5	65,3	4,6
5047TR91638	9/16"	3/8"	29,5	27,0	35,5	33,0	69,1	6,16
5047TR91612	9/16"	1/2"	29,5	28,0	35,5	34,0	69,9	6,57
5047TR5812	5/8"	1/2"	30,0	28,0	36,0	33,0	70,3	7,5
5047TR58916	5/8"	9/16"	29,5	29,5	35,5	36,0	71,7	8,0
5047TR34916	3/4"	9/16"	31,0	29,5	35,5	37,0	72,7	9,7
5047TR3458	3/4"	5/8"	31,0	30,0	37,0	37,0	73,2	10,0



**5052**

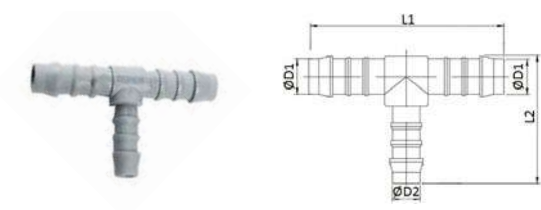
Union tee barb connector - inch tube



CODE	ØD	C1	C2	L1	L2	g
5052TR532	5/32"	16,0	16,0	20,0	24,3	0,62
5052TR316	3/16"	21,0	21,0	25,5	27,5	1,2
5052TR14	1/4"	23,0	23,0	28,0	29,0	1,9
5052TR516	5/16"	25,0	25,0	30,6	32,5	3,2
5052TR38	3/8"	26,5	27,0	33,5	35,5	5,5
5052TR12	1/2"	28,0	28,0	35,5	37,5	9,0
5052TR916	9/16"	30,0	30,0	38,6	40,8	12,3
5052TR58	5/8"	30,0	30,0	39,8	44,0	14,0
5052TR34	3/4"	31,0	31,0	40,0	45,0	17,0

**5057**

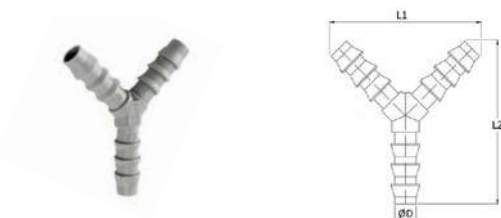
Reduced union tee barb connector - inch tube



CODE	ØD1	ØD2	L1	L2	g
5057TR316532	3/16"	5/32"	50,6	25,9	1,1
5057TR14316	1/4"	3/16"	55,8	32,0	1,74
5057TR51614	5/16"	1/4"	61,5	36,2	2,94
5057TR38516	3/8"	5/16"	66,5	39,3	1,1
5057TR1238	1/2"	3/8"	70,3	43,5	7,75
5057TR91612	9/16"	1/2"	76,3	48,0	-
5057TR58916	5/8"	9/16"	79,4	51,0	-
5057TR3458	3/4"	5/8"	84,3	55,2	16,42

**5062**

Union Y barb connector - inch tube



CODE	ØD	L1	L2	g
5062TR532	5/32"	30,8	35,5	0,65
5062TR14	1/4"	44,3	50,8	2,095
5062TR516	5/16"	49,4	55,6	3,35
5062TR38	3/8"	54,9	60,8	4,93
5062TR1116	11/16"	57,4	62,5	-



# BARB CONNECTORS PVDF



**PLUS**

**RESISTANT TO CONTACT WITH  
CHEMICALS AND CAN BE USE IN THE  
FOOD SECTOR**

---

**RESISTANT TO COSTANT HIGH LEVEL  
TEMPERATURES**

---

**OPTIMIZATION OF INTERNAL STEPS  
WHICH GUARANTEE FULL FLUID  
PASSAGE**

---

**EXTREMELY SIMPLE TO USE  
FOLLOWING TECHNICAL  
INFORMATION**

---

**ENVIRONMENTALLY FRIENDLY AND  
NON-TOXIC**

---

**IT IS RECOMMENDED TO USE 5090  
PIPE CLAMPS TO GUARANTEE A  
BETTER GRIP BETWEEN FITTING AND  
TUBE**





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p. 235 / **5910**



p. 236 / **5920**



p. 237 / **5925**



p. 237 / **5930**



p. 238 / **5935**



p. 238 / **5940**



p. 238 / **5945**



p. 239 / **5950**



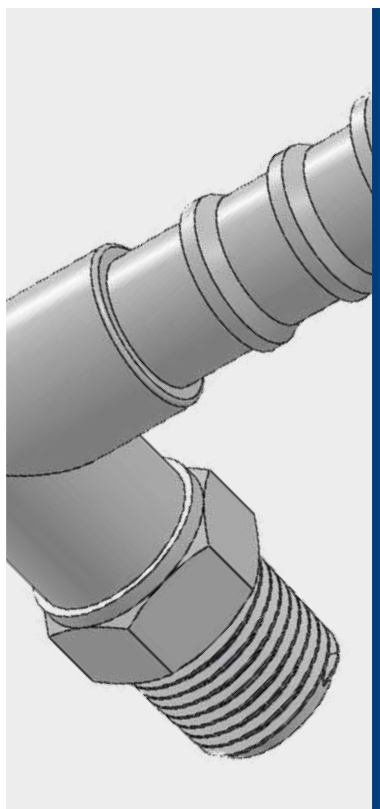
p. 239 / **5955**



p. 239 / **5960**







-20°C ÷ +120°C  
Subject to applications



**Working pressure:**  
14 Bar (at 20°C)  
Depending on the tube used



Compressed air, water and fluids suitable with construction materials



Taper gas BSPT ISO 7  
from R1/8" to R1"



Plastic, silicone, PTFE, FEP and soft PVC tubes



Body: Polyvinylidene fluoride (PVDF)

**AVAILABILITY**

Available on demand with NPT thread for inch tubes.



Food contact materials  
EC 1935/2004



D.M. 174/2004



NSF 61 / NSF 372  
NSF certificate on behalf of Tefen Flow and Dosing Technologies Ltd.



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

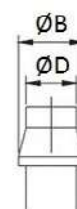
**FEATURES**

- The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to use teflon on the thread before use in order to prevent any type of loss.
- The connection to the tube must be secured with a 5090 clamp.

**DIAMETER OF THE BARB**

**BARB CONNECTORS - PVDF**

ØD (mm)	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø19	Ø25
ØB (mm)	5,2	6,3	8,0	10,0	12,0	14,0	16,2	18,2	21,0	26,0

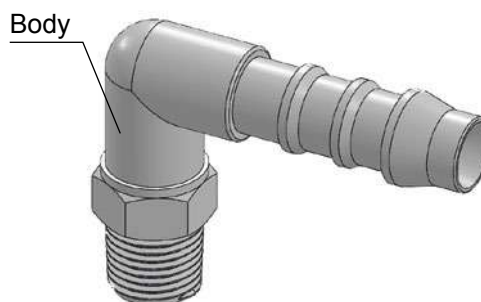


**TIGHTENING TORQUE**

**TAPER GAS BSPT ISO 7**

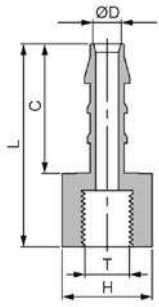
THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nm	0,1	1	5	8	16	26

**CONSTRUCTION DETAILS**



5905

Female barb connector BSPT thread

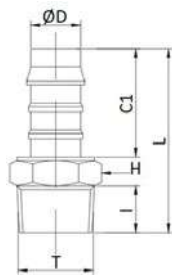


CODE	T	ØD	C	L	H	g
5905TR185	R 1/8"	5	21,0	34,4	14	2,0
5905TR145	R 1/4"	5	21,0	35,0	17	2,7
5905TR385	R 3/8"	5	21,0	36,5	22	4,57
5905TR125	R 1/2"	5	21,5	38,7	26	6,6
5905TR186	R 1/8"	6	23,0	36,3	14	2,15
5905TR146	R 1/4"	6	23,0	37,2	17	2,9
5905TR386	R 3/8"	6	23,0	38,3	22	4,8
5905TR126	R 1/2"	6	23,0	40,8	26	7,0
5905TR188	R 1/8"	8	25,0	38,2	14	2,5
5905TR148	R 1/4"	8	25,0	39,4	17	5,0
5905TR388	R 3/8"	8	25,0	40,4	22	7,1
5905TR128	R 1/2"	8	25,0	42,7	26	3,6
5905TR1410	R 1/4"	10	27,5	41,5	17	5,4
5905TR3810	R 3/8"	10	27,0	42,3	22	7,5
5905TR1210	R 1/2"	10	27,5	45,0	26	4,1
5905TR1412	R 1/4"	12	28,0	42,4	17	6,2
5905TR3812	R 3/8"	12	28,0	43,3	22	8,0
5905TR1212	R 1/2"	12	28,0	46,0	26	6,9
5905TR3814	R 3/8"	14	30,0	45,0	22	8,7
5905TR1214	R 1/2"	14	30,0	47,3	26	9,0
5905TR1216	R 1/2"	16	30,5	48,1	26	9,5
5905TR1219	R 1/2"	19	31,0	48,8	26	10,0



## 5910

## Male barb conector BSPT thread

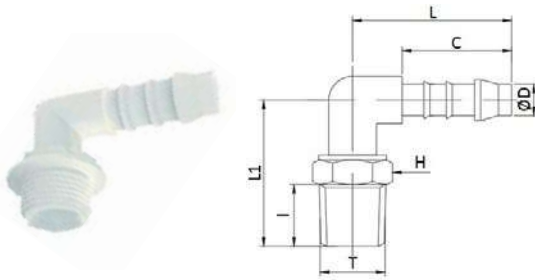


CODE	T	ØD	I	C1	L	H	g
5910TR184	R 1/8"	4	8,0	16,0	31,2	11	1,0
5910TR144	R 1/4"	4	10,0	16,0	33,8	14	1,2
5910TR185	R 1/8"	5	8,0	21,0	34,7	11	1,0
5910TR145	R 1/4"	5	10,0	21,0	38,3	14	1,0
5910TR186	R 1/8"	6	8,0	23,0	37,5	11	1,0
5910TR146	R 1/4"	6	10,0	23,0	39,2	14	2,0
5910TR386	R 3/8"	6	10,0	23,0	39,1	17	3,0
5910TR126	R 1/2"	6	12,5	23,0	42,3	22	6,0
5910TR346	R 3/4"	6	14,5	23,0	43,0	22	8,2
5910TR188	R 1/8"	8	8,0	25,0	39,8	11	2,0
5910TR148	R 1/4"	8	10,0	25,0	43,0	14	2,0
5910TR388	R 3/8"	8	10,0	25,0	43,0	17	3,0
5910TR128	R 1/2"	8	12,5	25,0	46,1	22	6,0
5910TR348	R 3/4"	8	12,5	25,0	37,1	17	4,7
5910TR1410	R 1/4"	10	10,0	27,0	47,1	14	1,0
5910TR3810	R 3/8"	10	10,0	27,0	45,2	17	4,0
5910TR1210	R 1/2"	10	12,5	27,0	48,3	22	6,0
5910TR3410	R 3/4"	10	14,5	27,0	49,3	27	9,1
5910TR1412	R 1/4"	12	10,0	28,0	46,0	14	4,0
5910TR3812	R 3/8"	12	10,0	28,0	46,0	17	4,0
5910TR1212	R 1/2"	12	12,5	28,0	49,3	22	7,0
5910TR3412	R 3/4"	12	14,5	28,0	50,0	27	9,2
5910TR3814	R 3/8"	14	10,0	29,5	47,5	17	6,0
5910TR1214	R 1/2"	14	12,5	29,5	50,8	22	7,0
5910TR3414	R 3/4"	14	14,5	29,5	51,7	27	9,8
5910TR1216	R 1/2"	16	12,5	30,0	51,3	22	8,0
5910TR3416	R 3/4"	16	14,5	30,0	52,2	27	10,0
5910TR1219	R 1/2"	19	12,5	31,0	52,2	22	9,0
5910TR3419	R 3/4"	19	14,5	31,0	53,3	27	15,0
5910TR119	R 1"	19	21,0	31,0	60,1	27	18,8
5910TR3425	R 3/4"	25	21,0	31,0	54,8	27	17,0
5910TR125	R 1"	25	21,0	31,0	66,6	36	19,5



5920

Male elbow barb connector BSPT thread

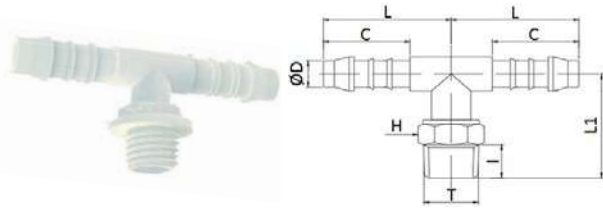


CODE	T	ØD	I	C	L	L1	H	g
5920TR184	R 1/8"	4	8,0	16,0	22,5	21,0	11	1,0
5920TR144	R 1/4"	4	10,0	16,0	22,5	24,0	14	1,0
5920TR185	R 1/8"	5	8,0	21,0	28,0	24,0	11	1,0
5920TR145	R 1/4"	5	10,0	21,0	28,0	26,0	14	3,0
5920TR125	R 1/2"	5	13,0	21,0	28,0	30,0	22	6,0
5920TR186	R 1/8"	6	8,5	23,5	31,5	23,5	11	1,0
5920TR146	R 1/4"	6	10,0	23,0	31,0	26,0	14	3,0
5920TR386	R 3/8"	6	10,5	23,0	31,0	26,0	17	3,0
5920TR126	R 1/2"	6	13,0	23,5	31,5	30,0	22	7,0
5920TR188	R 1/8"	8	8,0	25,0	36,0	26,0	11	3,0
5920TR148	R 1/4"	8	10,0	25,0	36,0	28,0	14	3,0
5920TR388	R 3/8"	8	10,5	25,0	36,0	28,0	17	5,0
5920TR128	R 1/2"	8	13,0	25,0	36,0	30,5	22	7,0
5920TR1410	R 1/4"	10	10,0	27,0	39,0	28,0	14	4,0
5920TR3810	R 3/8"	10	10,5	27,0	39,0	28,0	17	6,0
5920TR1210	R 1/2"	10	13,0	27,0	39,0	30,5	22	8,0
5920TR3410	R 3/4"	10	14,5	27,0	39,0	33,5	27	9,9
5920TR1412	R 1/4"	12	10,0	28,0	41,0	28,0	14	7,0
5920TR3812	R 3/8"	12	10,5	28,0	41,0	28,0	17	8,0
5920TR1212	R 1/2"	12	13,0	28,0	41,0	32,0	22	9,0
5920TR3412	R 3/4"	12	14,5	28,0	41,0	34,0	27	12,0
5920TR3814	R 3/8"	14	10,5	29,5	42,5	31,5	17	9,0
5920TR1214	R 1/2"	14	13,0	29,5	42,5	34,0	22	11,0
5920TR3414	R 3/4"	14	14,5	29,5	42,5	37,5	27	14,4
5920TR1216	R 1/2"	16	12,5	30,0	44,0	36,0	22	13,0
5920TR3416	R 3/4"	16	14,5	30,0	44,0	39,0	27	14,0
5920TR1219	R 1/2"	19	12,5	31,0	45,0	36,0	22	15,0
5920TR3419	R 3/4"	19	15,0	31,0	45,0	38,0	27	16,6



## 5925

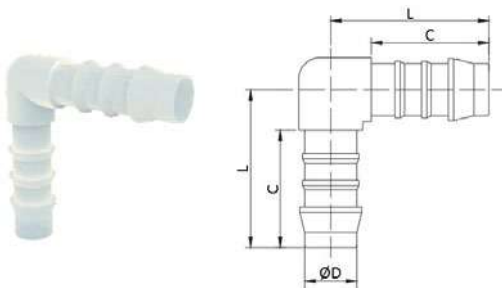
## Male tee barb connector BSPT thread



CODE	T	ØD	I	C	L	L1	H	g
5925TR184	R 1/8"	4	8,0	16,0	19,7	18,5	11	1,0
5925TR144	R 1/4"	4	10,5	16,0	22,6	21,5	14	2,5
5925TR185	R 1/8"	5	8,0	21,0	25,4	19,5	11	1,0
5925TR145	R 1/4"	5	10,5	21,0	28,2	22,5	14	3,0
5925TR186	R 1/8"	6	8,5	23,5	28,0	23,5	11	1,0
5925TR146	R 1/4"	6	10,5	23,0	31,5	23,0	14	3,0
5925TR386	R 3/8"	6	13,0	23,0	31,5	23,0	17	4,1
5925TR126	R 1/2"	6	12,5	23,0	31,5	27,0	22	7,1
5925TR188	R 1/8"	8	8,0	25,0	30,8	21,5	11	3,0
5925TR148	R 1/4"	8	10,5	25,0	36,3	24,5	14	5,0
5925TR388	R 3/8"	8	10,5	25,0	36,3	24,5	17	6,0
5925TR128	R 1/2"	8	13,0	25,0	31,0	28,5	22	7,5
5925TR1410	R 1/4"	10	10,0	27,0	39,3	28,0	14	6,4
5925TR3810	R 3/8"	10	10,5	27,0	39,3	28,0	17	7,3
5925TR1210	R 1/2"	10	12,5	27,0	39,4	30,5	22	9,6
5925TR3410	R 3/4"	10	13,0	27,0	39,4	31,5	27	11,8
5925TR1412	R 1/4"	12	10,0	28,0	41,3	28,0	14	15,0
5925TR3812	R 3/8"	12	10,5	28,0	41,3	28,0	17	9,0
5925TR1212	R 1/2"	12	13,0	28,0	41,3	31,5	22	12,6
5925TR3412	R 3/4"	12	13,0	28,0	41,3	31,5	27	14,3
5925TR3814	R 3/8"	14	10,5	29,5	42,8	31,5	17	12,8
5925TR1214	R 1/2"	14	12,5	29,5	42,8	34,0	22	15,0
5925TR3414	R 3/4"	14	13,0	30,0	42,8	35,0	27	17,9
5925TR1216	R 1/2"	16	12,5	30,0	44,1	36,0	22	15,0
5925TR3416	R 3/4"	16	13,5	30,0	44,2	37,0	27	18,6
5925TR1219	R 1/2"	19	12,5	31,0	45,1	36,0	22	19,6
5925TR3419	R 3/4"	19	13,5	31,0	45,3	36,0	27	21,6

## 5930

## Union elbow barb connector

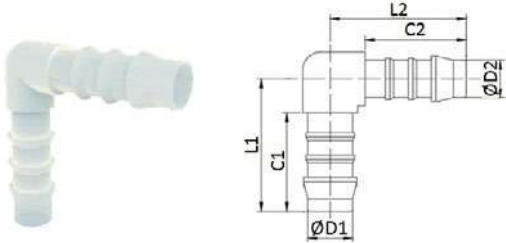


CODE	ØD	C	L	g
5930TR4	4	16,0	23,0	1,0
5930TR5	5	21,0	28,5	1,2
5930TR6	6	23,0	31,5	1,5
5930TR8	8	25,0	36,5	3,0
5930TR10	10	27,0	39,0	4,0
5930TR12	12	28,0	40,0	7,0
5930TR14	14	29,5	42,5	9,0
5930TR16	16	30,0	44,0	11,0
5930TR19	19	31,0	45,0	13,0



**5935**

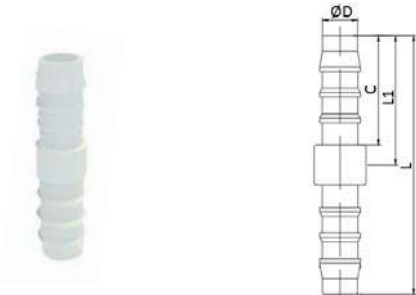
Reduced union elbow barb connector



CODE	ØD1	ØD2	C1	C2	L1	L2	g
5935TR54	5	4	21,0	16,0	28,5	23,0	1,0
5935TR64	6	4	21,0	16,0	35,5	29,0	1,0
5935TR65	6	5	23,0	21,0	31,5	28,5	1,5
5935TR86	8	6	25,0	23,0	36,5	31,5	2,0
5935TR106	10	6	27,0	23,0	39,0	31,5	3,8
5935TR108	10	8	27,0	25,0	39,0	36,5	4,0
5935TR1210	12	10	28,0	27,0	40,0	39,0	7,0
5935TR1412	14	12	29,5	28,0	42,5	40,0	9,0
5935TR1614	16	14	30,0	29,5	44,0	42,5	11,0
5935TR1916	19	16	31,0	30,0	45,0	44,0	14,0

**5940**

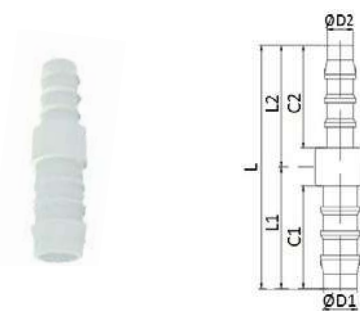
Union barb connector



CODE	ØD	C	L	L1	g
5940TR4	4	16,0	36,6	18,0	1,0
5940TR5	5	21,0	47,0	23,5	1,2
5940TR6	6	23,0	52,2	26,0	1,5
5940TR8	8	25,0	59,3	29,0	2,0
5940TR10	10	27,0	63,0	31,5	3,0
5940TR12	12	28,0	66,0	33,0	4,0
5940TR14	14	29,5	71,8	35,5	7,5
5940TR16	16	30,0	72,5	36,0	9,0
5940TR19	19	31,0	73,5	37,0	11,0

**5945**

Reduced union barb connector

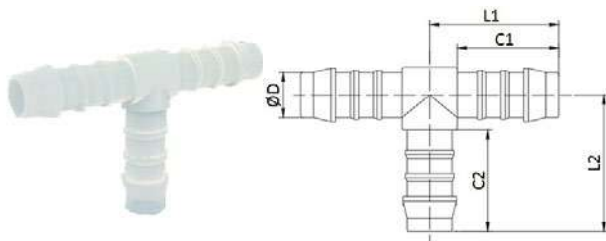


CODE	ØD1	ØD2	C1	L1	C2	L2	L	g
5945TR54	5	4	21,0	23,5	16,0	18,0	42,2	1,0
5945TR64	6	4	23,0	26,0	16,0	18,0	45,7	1,0
5945TR65	6	5	23,0	26,0	21,0	23,5	50,6	1,0
5945TR85	8	5	25,0	29,5	21,0	23,5	54,4	2,0
5945TR86	8	6	25,0	29,0	23,0	26,0	56,3	3,0
5945TR106	10	6	27,0	31,5	23,0	26,0	59,0	3,0
5945TR108	10	8	27,0	31,5	25,0	29,0	62,0	3,0
5945TR128	12	8	28,0	33,0	25,0	29,0	63,8	3,0
5945TR1210	12	10	28,0	33,0	27,0	31,5	65,3	5,0
5945TR1410	14	10	29,5	35,5	27,0	31,5	69,1	6,0
5945TR1412	14	12	29,5	35,5	28,0	33,0	70,0	7,0
5945TR1612	16	12	30,0	36,0	28,0	33,0	70,3	7,0
5945TR1614	16	14	30,0	36,0	29,5	35,5	71,7	8,0
5945TR1914	19	14	31,0	37,0	29,5	35,5	72,7	10,0
5945TR1916	19	16	31,0	37,0	30,0	36,0	73,2	10,0



## 5950

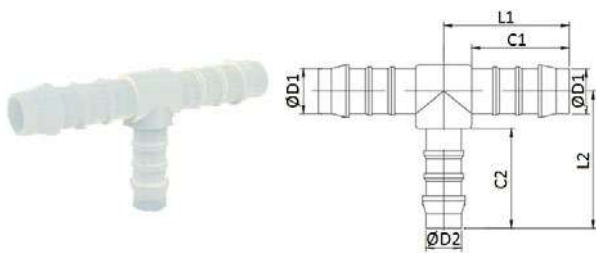
## Union tee barb connector



CODE	ØD	C1	L1	C2	L2	g
5950TR4	4	16,0	19,7	16,0	20,5	1,0
5950TR5	5	21,0	25,3	21,0	26,5	1,0
5950TR6	6	23,0	28,0	23,0	29,0	1,0
5950TR8	8	25,0	30,8	25,0	32,5	3,0
5950TR10	10	27,0	33,2	27,0	33,5	5,0
5950TR12	12	28,0	35,2	28,0	37,5	8,0
5950TR14	14	29,5	38,1	29,5	42,5	12,0
5950TR16	16	30,0	39,6	30,0	44,0	13,0
5950TR19	19	31,0	42,2	31,0	45,0	17,0

## 5955

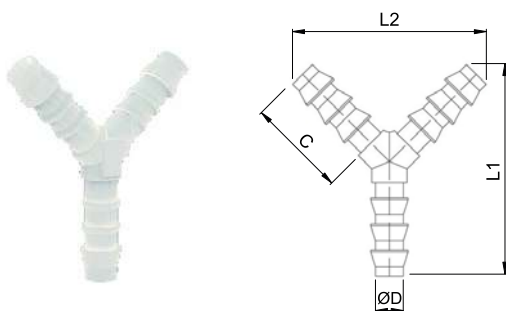
## Reduced union tee barb connector



CODE	ØD1	ØD2	C1	L1	C2	L2	g
5955TR54	5	4	21,0	25,3	16,0	21,5	1,0
5955TR65	6	5	23,0	27,8	21,0	27,0	2,0
5955TR86	8	6	25,0	30,7	23,0	30,5	3,0
5955TR108	10	8	27,0	33,2	25,0	34,0	4,0
5955TR1210	12	10	28,0	35,3	27,0	36,5	7,0
5955TR1412	14	12	29,5	38,3	28,0	38,5	11,0
5955TR1614	16	14	30,0	39,7	29,5	41,5	13,0
5955TR1916	19	16	31,0	42,3	30,0	43,0	17,0

## 5960

## Union Y barb connector



CODE	ØD	C	L1	L2	g
5960TR4	4	16,5	35,0	31,0	1,0
5960TR6	6	23,5	51,2	44,5	1,5
5960TR8	8	25,5	56,6	40,6	3,0
5960TR10	10	24,0	62,3	55,0	5,0
5960TR17	17	24,0	63,3	57,7	7,0







**BARB  
CONNECTORS**  
STAINLESS STEEL  
AISI 316



**PLUS**

**SUITABLE FOR FOOD AND POTABLE  
WATER**

**DESIGN WITH A STRONG BODY FOR  
HEAVY DUTY APPLICATIONS**

**UTILIZE WITH STAINLESS STEEL  
CLAMPS TO EFFECTIVELY SECURE THE  
TUBE**

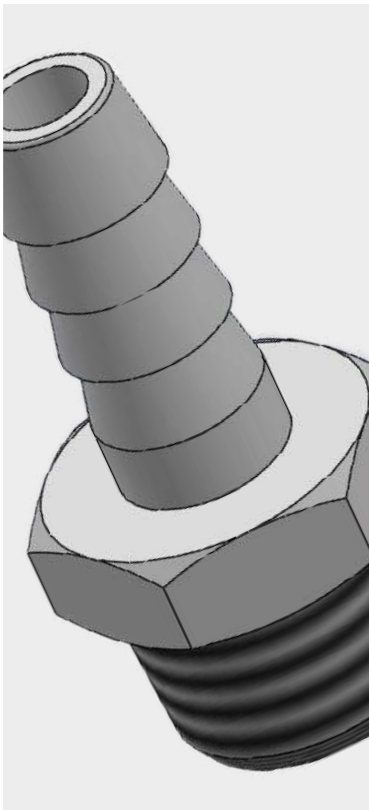




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-20°C ÷ +180°C  
Subject to applications



**Working pressure:**  
60 Bar  
Depending on the tube used



Compressed air, potable water,  
oil and food fluids suitable with  
construction details



Taper gas BSPT ISO 7  
from R1/8" to R3/4"



All plastic and rubber tubes  
compatible with the internal  
diameter, to be used only with  
suitable clamps



Body: Stainless steel AISI 316



Food contact materials  
EC 1935/2004



D.M. 174/2004



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

## DIAMETER OF THE BARB

BARB CONNECTORS - STAINLESS STEEL AISI 316 - TAPER GAS BSPT ISO 7

ØD (mm)	Ø6	Ø8	Ø9	Ø10	Ø14	Ø20
ØB (mm)	7,2	9,2	10	11,2	15,2	21,0

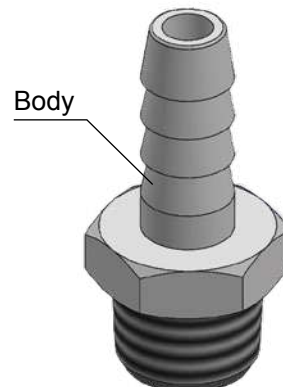


## TIGHTENING TORQUE

TAPER GAS BSPT ISO 7

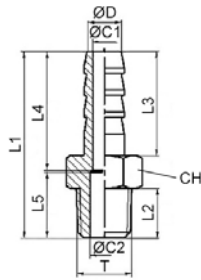
THREAD	1/8"	1/4"	3/8"	1/2"	3/4"
Nm	2,5	3,5	6	12	-

## CONSTRUCTION DETAILS



1469

Male barb connector BSPT thread



CODE	T	ØD	L1	L2	L3	L4	L5	ØC1	ØC2	CH	g
1469TR186	R 1/8"	6	34,0	9,0	19,0	21,7	12,0	4,0	5,0	12	13,0
1469TR148	R 1/4"	8	35,5	10,5	19,0	21,1	14,0	5,5	7,0	14	18,0
1469TR149	R 1/4"	9	35,5	10,5	19,5	21,7	14,0	5,5	7,1	14	21,0
1469TR3810	R 3/8"	10	41,5	11,5	23,0	25,9	15,0	8,0	10,0	17	26,0
1469TR1214	R 1/2"	14	51,0	15,0	28,0	32,4	18,0	11,0	13,0	22	54,0
1469TR3420	R 3/4"	20	65,0	18,0	37,0	40,8	23,0	14,0	18,0	27	119,0



# **BARB CONNECTORS CLAMPS**

**PLUS**

---

**WIDE RANGE OF AVAILABLE  
MATERIALS**

---

**MANY DIAMETERS AVAILABLE TO  
MEET DIFFERENT NEEDS**

---

**EASY TO USE**

---

**DESIGNED TO GUARANTEE A GREAT  
CLAMPING FORCE AND HIGH  
RESISTANCE TO BREAKAGE**

---

**PROTECTION FOR THE FLEXIBLE TUBE  
THANKS TO THE INTERNAL SMOOTH  
SIDE OF THE BAND**





p. 248 / **KC9**



p. 248 / **KCW9**



p. 249 / **KCX9**



p. 249 / **5090**



## TECHNICAL SPECIFICATIONS

### KC9

**TUBE DIAMETER:**

From Ø8 to Ø90

**CONSTRUCTION MATERIALS:**

**Housing & band:** Zinc-plated steel with Chromium VI-free galvanisation treatment (EU RoHS Directive)

**Screw:** Zinc-plated steel with Chromium VI-free galvanisation treatment (EU RoHS Directive)



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

### KCW9

**TUBE DIAMETER:**

From Ø8 to Ø90

**CONSTRUCTION MATERIALS:**

**Housing & band:** Stainless steel AISI 304

**Screw:** Stainless steel AISI 304



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

### KCX9

**TUBE DIAMETER:**

From Ø8 to Ø90

**CONSTRUCTION MATERIALS:**

**Housing & band:** Stainless steel AISI 316

**Screw:** Stainless steel AISI 316



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

### 5090

**WORKING TEMPERATURE:**

+4°C ÷ +90°C

**TUBE DIAMETER:**

From Ø8 to Ø49

**CONSTRUCTION MATERIALS:**

**Body:** Acetal resin

**FEATURES:**

Acetal resin clamps are strong, durable and reusable



Products in compliance with EC Regulation 1907/2006

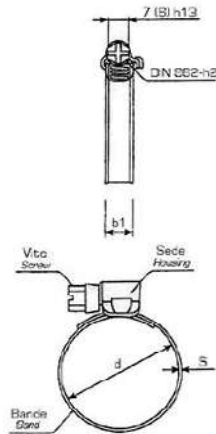


Products in compliance with the directive EU 2015/863



**KC9**

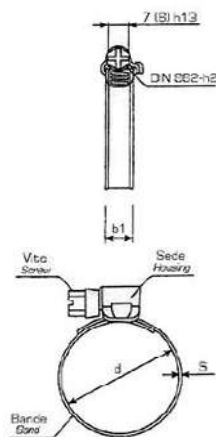
Hose clamp DIN 3017, with band, housing and screw in zinc-plated steel



CODE	Ø CAMP (mm)	BANDWIDTH (mm)	b1 SCREW (mm)	THICKNESS (mm)	TORQUE (Nm)
KC9-0812	8-12	9,0	7,0	0,7	4,5
KC9-1016	10-16	9,0	7,0	0,7	4,5
KC9-1220	12-20	9,0	7,0	0,7	4,5
KC9-1222	12-22	9,0	7,0	0,7	4,5
KC9-1625	16-25	9,0	7,0	0,7	4,5
KC9-1627	16-27	9,0	7,0	0,7	4,5
KC9-2032	20-32	9,0	7,0	0,7	4,5
KC9-2535	25-35	9,0	7,0	0,7	4,5
KC9-2540	25-40	9,0	7,0	0,7	4,5
KC9-3045	30-45	9,0	7,0	0,7	4,5
KC9-3250	32-50	9,0	7,0	0,7	4,5
KC9-4060	40-60	9,0	7,0	0,7	4,5
KC9-5070	50-70	9,0	7,0	0,7	4,5
KC9-6080	60-80	9,0	7,0	0,7	4,5
KC9-7090	70-90	9,0	7,0	0,7	4,5

**KCW9**

Hose clamp DIN 3017, with band, housing and screw in stainless steel AISI 304



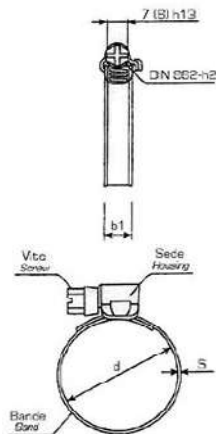
CODE	Ø CAMP (mm)	BANDWIDTH (mm)	b1 SCREW (mm)	THICKNESS (mm)	TORQUE (Nm)
KCW9-0812	8-12	9,0	7,0	0,7	4,5
KCW9-1016	10-16	9,0	7,0	0,7	4,5
KCW9-1220	12-20	9,0	7,0	0,7	4,5
KCW9-1222	12-22	9,0	7,0	0,7	4,5
KCW9-1625	16-25	9,0	7,0	0,7	4,5
KCW9-1627	16-27	9,0	7,0	0,7	4,5
KCW9-2032	20-32	9,0	7,0	0,7	4,5
KCW9-2535	25-35	9,0	7,0	0,7	4,5
KCW9-2540	25-40	9,0	7,0	0,7	4,5
KCW9-3045	30-45	9,0	7,0	0,7	4,5
KCW9-3250	32-50	9,0	7,0	0,7	4,5
KCW9-4060	40-60	9,0	7,0	0,7	4,5
KCW9-5070	50-70	9,0	7,0	0,7	4,5
KCW9-6080	60-80	9,0	7,0	0,7	4,5
KCW9-7090	70-90	9,0	7,0	0,7	4,5





**KCX9**

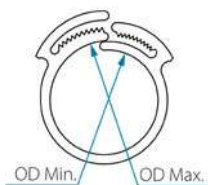
Hose clamp DIN 3017, with band, housing and screw in stainless steel AISI 316



CODE	Ø CAMP (mm)	BANDWIDTH (mm)	b1 SCREW (mm)	THICKNESS (mm)	TORQUE (Nm)
KCX9-0812	8-12	9,0	7,0	0,7	4,5
KCX9-1016	10-16	9,0	7,0	0,7	4,5
KCX9-1220	12-20	9,0	7,0	0,7	4,5
KCX9-1222	12-22	9,0	7,0	0,7	4,5
KCX9-1625	16-25	9,0	7,0	0,7	4,5
KCX9-1627	16-27	9,0	7,0	0,7	4,5
KCX9-2032	20-32	9,0	7,0	0,7	4,5
KCX9-2535	25-35	9,0	7,0	0,7	4,5
KCX9-2540	25-40	9,0	7,0	0,7	4,5
KCX9-3045	30-45	9,0	7,0	0,7	4,5
KCX9-3250	32-50	9,0	7,0	0,7	4,5
KCX9-4060	40-60	9,0	7,0	0,7	4,5
KCX9-5070	50-70	9,0	7,0	0,7	4,5
KCX9-6080	60-80	9,0	7,0	0,7	4,5
KCX9-7090	70-90	9,0	7,0	0,7	4,5

**5090**

Acetal resin hose clamp



CODE	O.D. MIN	O.D. MAX
5090TR810	8	10
5090TR1012	10	12
5090TR1113	11	13
5090TR1315	13	15
5090TR1416	14	16
5090TR1517	15	17
5090TR1618	16	18
5090TR1719	17	19
5090TR1820	18	20
5090TR2022	20	22
5090TR2123	21	23
5090TR2325	23	25
5090TR2628	26	28
5090TR4749	47	49

Hose clamps in 5090 acetal resin are the simple and fast solution for securing flexible hoses to any fittings.

**How to use:** insert snap clip onto the tube and give a manual pression to guarantee a perfect adherence. Use a plier for final tightening.

**How to release:** apply lateral pressure to unlock it. 5090 hose clamps are reliable.



Da sempre  
**unia**  **mo**  
alte prestazioni  
a rapidità  
di consegna.

**FOLLOW US!**



# STANDARD FITTINGS



# TECHNICAL INDEX



p. 253  
**MICROCAST**

**Materials:** Stainless steel AISI 316  
**Pressure:** 16 Bar  
**Temperature:** from -20°C to 200°C  
**Range:** R1/8" to R4"  
G1/8" to G4"



p. 263  
**BRASS**

**Materials:** Nickel-plated brass  
**Pressure:** 60 Bar  
**Temperature:** from -20°C to 100°C  
from -15°C to 200°C  
**Range:** R1/8" to R1"  
M5 to G1"



p. 279  
**BAYONED JOINT**

**Materials:** Nickel-plated brass  
**Pressure:** 12 Bar  
**Temperature:** from -18°C to 18°C  
**Range:** G1/8" to G1/2"



p. 289  
**NYLON**  


**Materials:** Nylon 66  
**Pressure:** 14 Bar  
**Temperature:** from -20°C to 110°C  
**Range:** R1/8" to R3/4"  
N1/8" to N3/4"



p. 299  
**PVDF**  


**Materials:** PVDF  
**Pressure:** 14 Bar  
**Temperature:** from -20°C to 120°C  
**Range:** R1/8" to R1"



p. 307  
**STAINLESS STEEL AISI 316**  


**Materials:** Stainless steel AISI 316  
**Temperature:** from -20°C to 180°C  
from -198°C to 648°C  
**Range:** R1/8" to R1"  
G1/8" to G1"  
N1/8" to N1"



**STANDARD  
FITTINGS  
MICROCAST**

**PLUS**

**STRONG BODY SUITABLE FOR  
INDUSTRIAL SYSTEMS**

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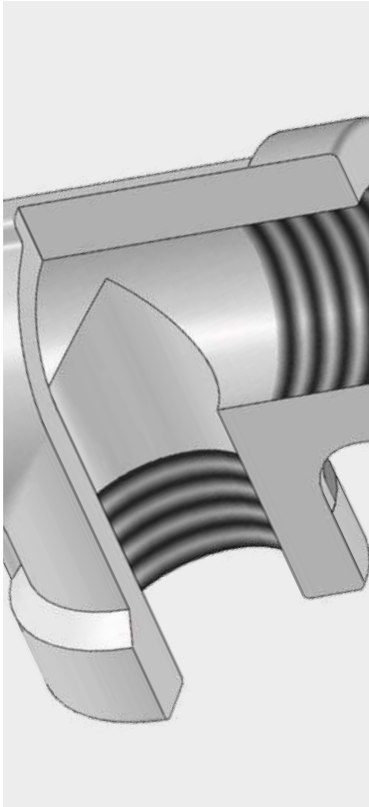
**WIDE RANGE OF SIZES AND  
ARTICLES FOR MANY APPLICATIONS**

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**GOOD RESISTANCE TO CORROSION**



p. 256 / **1410MF**p. 256 / **1412MF**p. 257 / **1416MF**p. 257 / **1420MF-P3**p. 257 / **1425MF-P3**p. 258 / **1425MF**p. 258 / **1426MF**p. 259 / **1440MF**p. 259 / **1450MF**p. 260 / **1455MF**p. 260 / **1469MF**p. 260 / **1475MF**p. 261 / **1480MF**p. 261 / **1482MF**p. 261 / **1485MF**p. 262 / **1490MF**



-20°C ÷ +225°C



#### Working pressure

Up to 120°C:

From 1/8" to 2": 16 Bar

From 2-1/2" to 4": 10 Bar

Up to 225°C:

From 1/8" to 3/4": 16 Bar

From 1" to 2": 10 Bar

From 2-1/2" to 4": 6 Bar



- Taper gas BSPT EN10226-1  
from R1/8" to R4"

- Parallel gas BSPP EN10226-1  
from G1/8" to G4"



Body: Microcast in  
stainless steel AISI 316

## FEATURES

Pressure for intermediate temperatures may be determined by interpolation method. Indicated temperatures are referring to the fluid.

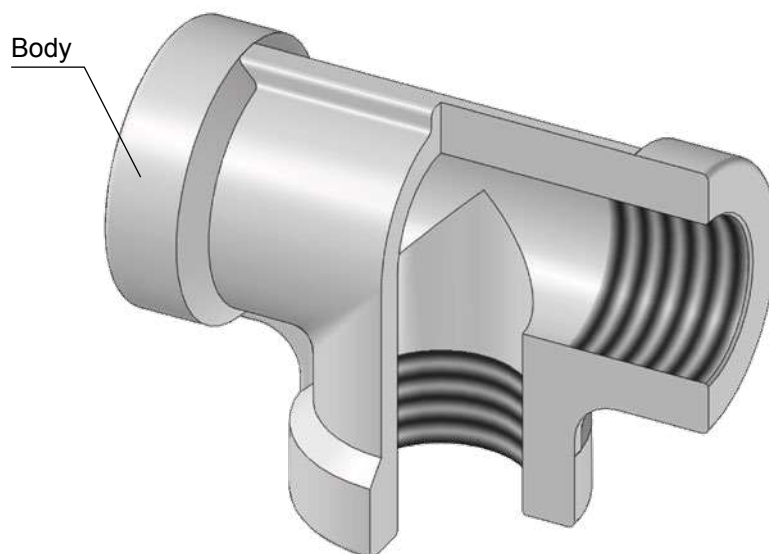


Products in compliance with  
EC Regulation 1907/2006



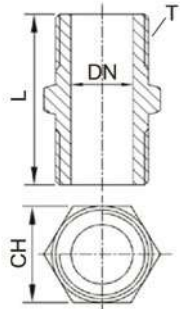
Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



**1410MF**

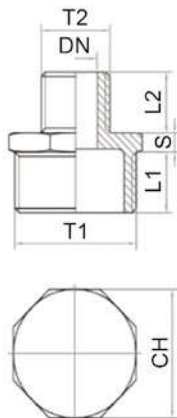
## Nipple connector BSPT thread



CODE	T	DN	L	CH
1410MF18	R 1/8"	5,6	23,0	12
1410MF14	R 1/4"	9,0	25,0	14,5
1410MF38	R 3/8"	11,2	28,5	17,5
1410MF12	R 1/2"	14,7	37,0	22,6
1410MF34	R 3/4"	20,0	41,0	27,7
1410MF1	R 1"	26,6	45,5	36
1410MF114	R 1-1/4"	35,0	50,0	43,5
1410MF112	R 1-1/2"	40,0	53,3	50
1410MF2	R 2"	50,0	61,0	63
1410MF212	R 2-1/2"	64,3	72,0	77,5
1410MF3	R 3"	77,3	77,0	91,5
1410MF4	R 4"	101,0	83,0	116

**1412MF**

## Reduced nipple connector BSPT thread



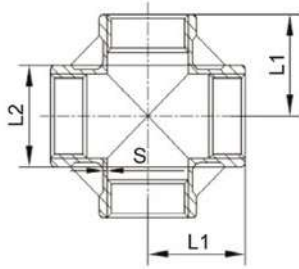
CODE	T1	T2	DN	L1	L2	S	CH
1412MF1418	R 1/4"	R 1/8"	5,6	12,1	9,3	5,7	15
1412MF3814	R 3/8"	R 1/4"	9	12,0	12,0	6,0	18,5
1412MF1218	R 1/2"	R 1/8"	5,6	14,5	8,8	5,5	22
1412MF1214	R 1/2"	R 1/4"	9	14,5	11,7	5,8	22
1412MF1238	R 1/2"	R 3/8"	11,2	14,6	12,3	5,5	22,5
1412MF3414	R 3/4"	R 1/4"	9	15,5	11,3	6,0	28
1412MF3412	R 3/4"	R 1/2"	14,7	17,0	14,5	6,3	28,4
1412MF112	R 1"	R 1/2"	14,7	19,0	15,0	6,3	34,5
1412MF134	R 1"	R 3/4"	20	18,3	16,6	7,0	35,2
1412MF11412	R 1-1/4"	R 1/2"	14,7	20,2	15,0	7,8	44,2
1412MF1141	R 1-1/4"	R 1"	26,6	20,5	18,3	7,8	44
1412MF1121	R 1-1/2"	R 1"	26,6	20,8	18,6	9,9	49,9
1412MF112114	R 1-1/2"	R 1-1/4"	35	20,8	20,3	9,9	50
1412MF21	R 2"	R 1"	26,6	26,0	18,6	9,4	62
1412MF2114	R 2"	R 1-1/4"	35	25,3	20,7	10,3	61,9
1412MF2112	R 2"	R 1-1/2"	40	26,0	21,5	10,3	62





**1416MF**

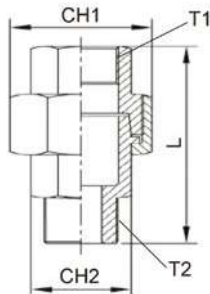
Female cross BSPP thread



CODE	T	L1	L2	S
1416MF14	G 1/4"	18,0	16,5	2,3
1416MF38	G 3/8"	21,0	20,0	2,2
1416MF12	G 1/2"	25,0	26,0	1,7
1416MF34	G 3/4"	30,0	32,0	1,8
1416MF1	G 1"	34,0	39,0	2,1
1416MF114	G 1-1/4"	40,0	47,0	2,1
1416MF112	G 1-1/2"	44,0	54,5	2,1
1416MF2	G 2"	53,5	67,0	2,1

**1420MF-P3**

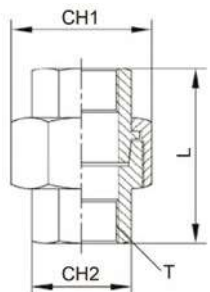
Nipple M/F 3 pieces, male BSPT thread and female BSPP thread



CODE	T1	T2	L	CH1	CH2
1420MF18P3	G 1/8"	R 1/8"	38,0	25	13
1420MF14P3	G 1/4"	R 1/4"	44,0	30,5	17
1420MF38P3	G 3/8"	R 3/8"	47,5	34	20,5
1420MF12P3	G 1/2"	R 1/2"	47,5	34,4	23,8
1420MF34P3	G 3/4"	R 3/4"	51,7	41,2	29,2
1420MF1P3	G 1"	R 1"	60,0	48,3	36,5
1420MF114P3	G 1-1/4"	R 1-1/4"	64,0	60,3	46
1420MF112P3	G 1-1/2"	R 1-1/2"	67,5	66,5	52
1420MF2P3	G 2"	R 2"	75,5	79	64
1420MF212P3	G 2-1/2"	R 2-1/2"	84,5	96,5	80
1420MF3P3	G 3"	R 3"	96,0	110	93,5
1420MF4P3	G 4"	R 4"	107,5	141	118,5

**1425MF-P3**

Nipple F/F 3 pieces BSPP thread

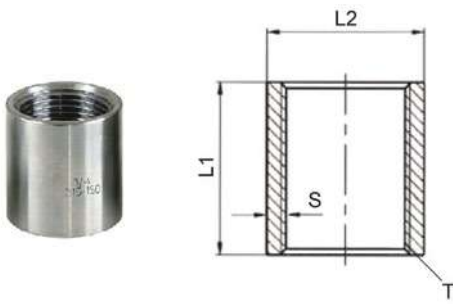


CODE	T	L	CH1	CH2
1425MF18P3	G 1/8"	30,0	25	13
1425MF14P3	G 1/4"	33,5	30,5	17
1425MF38P3	G 3/8"	36,5	34	20,5
1425MF12P3	G 1/2"	34,7	34,4	23,8
1425MF34P3	G 3/4"	37,5	41,2	29,2
1425MF1P3	G 1"	43,0	48,3	36,5
1425MF114P3	G 1-1/4"	45,5	60,3	46
1425MF112P3	G 1-1/2"	49,0	66,5	52
1425MF2P3	G 2"	57,0	79	64
1425MF212P3	G 2-1/2"	66,0	96,5	80
1425MF3P3	G 3"	74,0	110	93,5
1425MF4P3	G 4"	82,5	141	118,5



**1425MF**

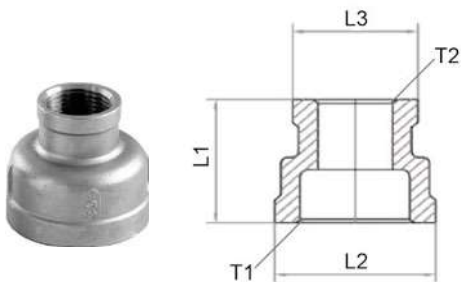
Sleeve F/F BSPP thread



CODE	T	L1	L2	S
1425MF18	G 1/8"	18,0	14,0	2,8
1425MF14	G 1/4"	24,0	18,0	3,3
1425MF38	G 3/8"	29,0	20,5	2,9
1425MF12	G 1/2"	32,0	24,5	3,2
1425MF34	G 3/4"	34,0	30,0	3,1
1425MF1	G 1"	41,0	37,0	3,5
1425MF114	G 1-1/4"	47,0	46,5	3,9
1425MF112	G 1-1/2"	47,0	51,5	3,5
1425MF2	G 2"	61,0	67,0	5,3
1425MF212	G 2-1/2"	70,0	84,5	6,7
1425MF3	G 3"	75,0	96,0	6,2
1425MF4	G 4"	86,0	125,0	8,2

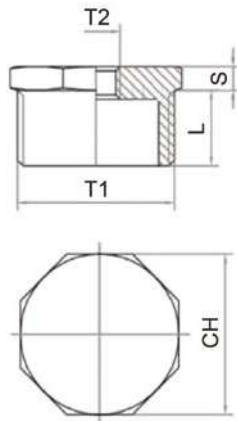
**1426MF**

Reduced sleeve F/F BSPP thread

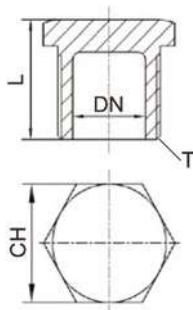


CODE	T1	T2	L1	L2	L3
1426MF3814	G 3/8"	G 1/4"	28,1	22,0	17,5
1426MF1238	G 1/2"	G 3/8"	31,7	26,1	21,0
1426MF3412	G 3/4"	G 1/2"	36,6	32,1	27,0
1426MF134	G 1"	G 3/4"	40,0	39,5	32,0
1426MF1141	G 1-1/4"	G 1"	43,2	48,9	39,0
1426MF112114	G 1-1/2"	G 1-1/4"	46,0	55,3	48,5
1426MF2112	G 2"	G 1-1/2"	51,5	69,0	55,5



**1440MF****M/F reducer, male BSPT thread & female BSPP thread**

CODE	T1	T2	L	S	CH
1440MF1418	R 1/4"	G 1/8"	11,0	4,0	15
1440MF3818	R 3/8"	G 1/8"	11,5	3,5	17,5
1440MF3814	R 3/8"	G 1/4"	12,7	5,0	18,5
1440MF1218	R 1/2"	G 1/8"	15,2	4,8	22,5
1440MF1214	R 1/2"	G 1/4"	15,4	4,8	22,5
1440MF1238	R 1/2"	G 3/8"	15,1	4,8	22,5
1440MF3414	R 3/4"	G 1/4"	16,6	5,7	28
1440MF3438	R 3/4"	G 3/8"	16,7	5,8	28,3
1440MF3412	R 3/4"	G 1/2"	16,9	5,6	28,5
1440MF112	R 1"	G 1/2"	18,9	7,0	34,8
1440MF134	R 1"	G 3/4"	18,8	7,2	35
1440MF11412	R 1-1/4"	G 1/2"	20,5	8,5	44
1440MF11434	R 1-1/4"	G 3/4"	20,3	8,5	43,4
1440MF1141	R 1-1/4"	G 1"	20,6	8,4	43,9
1440MF11234	R 1-1/2"	G 3/4"	21,5	8,5	49
1440MF1121	R 1-1/2"	G 1"	21,6	8,4	49
1440MF112114	R 1-1/2"	G 1-1/4"	21,8	8,2	49
1440MF21	R 2"	G 1"	25,6	8,4	61,8
1440MF2114	R 2"	G 1-1/4"	25,5	8,5	62,5
1440MF2112	R 2"	G 1-1/2"	25,4	8,8	62,3
1440MF212112	R 2-1/2"	G 1-1/2"	28,1	10,7	78,3
1440MF2122	R 2-1/2"	G 2"	28,2	10,8	78
1440MF32	R 3"	G 2"	28,5	12,0	89,8
1440MF3212	R 3"	G 2-1/2"	30,2	11,8	92,5
1440MF43	R 4"	G 3"	34,8	13,0	115,8

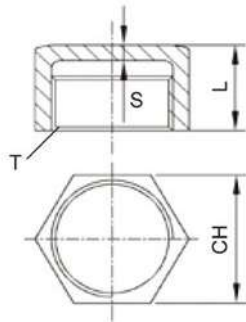
**1450MF****Male plug BSPT thread**

CODE	T	DN	L	CH
1450MF18	R 1/8"	0	14,0	12
1450MF14	R 1/4"	0	17,0	15
1450MF38	R 3/8"	0	17,8	18
1450MF12	R 1/2"	15,0	20,9	22
1450MF34	R 3/4"	21,0	25,0	28
1450MF1	R 1"	26,0	26,7	36
1450MF114	R 1-1/4"	35,0	30,5	43,6
1450MF112	R 1-1/2"	40,3	30,6	50
1450MF2	R 2"	51,6	34,3	62
1450MF212	R 2-1/2"	67,0	39,0	78
1450MF3	R 3"	78,5	42,0	92
1450MF4	R 4"	103,0	47,0	116



**1455MF**

Female plug BSPP thread

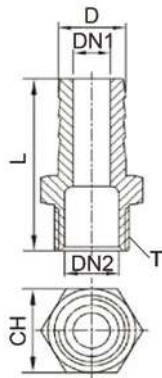


CODE	T	L	S	CH
1455MF18	G 1/8"	12,5	2,4	12,5
1455MF14	G 1/4"	16,0	2,6	16
1455MF38	G 3/8"	16,5	3,5	18,8
1455MF12	G 1/2"	19,0	3,7	25
* 1455MF34	G 3/4"	24,0	2,5	31
* 1455MF1	G 1"	26,0	3,2	37,5
* 1455MF114	G 1-1/4"	29,0	3,3	47
* 1455MF112	G 1-1/2"	25,0	3,5	53
* 1455MF2	G 2"	29,5	3,5	64,5
* 1455MF212	G 2-1/2"	32,0	3,5	80,5
* 1455MF3	G 3"	38,5	3,5	93
* 1455MF4	G 4"	41,0	3,8	121

\* Octagonal wrench

**1469MF**

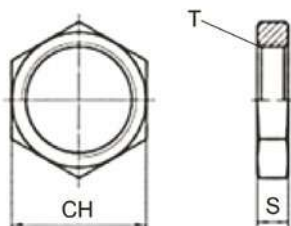
Barb connector BSPT thread



CODE	T	D	DN1	DN2	L	CH
1469MF18T7	R 1/8"	7,0	4,2	4,3	41,0	11,2
1469MF14T9	R 1/4"	9,0	5,0	8,0	48,0	15
1469MF38T11	R 3/8"	11,0	7,0	11,3	48,0	18,3
1469MF12T15	R 1/2"	15,0	10,0	15,4	52,6	22
1469MF34T20	R 3/4"	20,0	15,1	20,0	61,0	28
1469MF1T27	R 1"	26,0	20,4	26,2	66,0	36
1469MF114T34	R 1-1/4"	34,0	27,8	35,4	66,0	43,5
1469MF112T40	R 1-1/2"	40,5	33,8	40,2	68,5	50
1469MF2T52	R 2"	52,5	45,7	51,5	82,0	62
1469MF212T65	R 2-1/2"	63,5	55,0	64,2	96,5	77,5
1469MF3T77	R 3"	76,1	66,8	77,3	105,0	91,5
1469MF4T105	R 4"	100,0	90,6	102,2	115,0	115,5

**1475MF**

Bulkhead locking nut

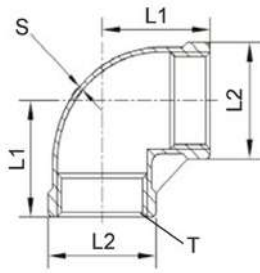


CODE	T	S	CH
1475MF18	G 1/8"	7,0	15
1475MF14	G 1/4"	6,0	19,2
1475MF38	G 3/8"	6,5	24
1475MF12	G 1/2"	8,0	26,5
1475MF34	G 3/4"	10,0	32
1475MF1	G 1"	10,0	38,5
1475MF114	G 1-1/4"	11,2	48
1475MF112	G 1-1/2"	12,0	55
1475MF2	G 2"	13,3	68



**1480MF**

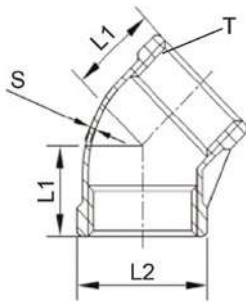
Female elbow 90° BSPP thread



CODE	T	L1	L2	S
1480MF18	G 1/8"	16,0	14,0	1,6
1480MF14	G 1/4"	18,0	16,5	1,7
1480MF38	G 3/8"	21,0	20,0	1,5
1480MF12	G 1/2"	25,0	26,0	1,6
1480MF34	G 3/4"	30,0	32,0	1,7
1480MF1	G 1"	34,0	39,2	2,1
1480MF114	G 1-1/4"	40,0	47,2	2,2
1480MF112	G 1-1/2"	43,5	54,5	2,4
1480MF2	G 2"	53,5	67,0	2,7
1480MF212	G 2-1/2"	63,5	85,0	3,3
1480MF3	G 3"	74,0	97,5	2,8
1480MF4	G 4"	89,0	124,5	3,8

**1482MF**

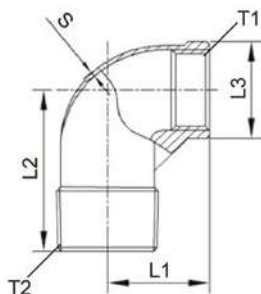
Female elbow 45° BSPP thread



CODE	T	L1	L2	S
1482MF14	G 1/4"	16,0	17,5	2,0
1482MF38	G 3/8"	18,0	21,0	2,2
1482MF12	G 1/2"	20,0	26,0	1,8
1482MF34	G 3/4"	25,0	32,0	1,9
1482MF1	G 1"	27,0	39,0	2,0
1482MF114	G 1-1/4"	32,0	49,0	2,3
1482MF112	G 1-1/2"	33,0	55,2	2,3
1482MF2	G 2"	40,0	68,0	2,5

**1485MF**

Elbow 90°, male BSPT thread &amp; female BSPP thread

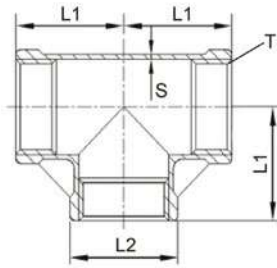


CODE	T1	T2	L1	L2	L3	S
1485MF18	G 1/8"	R 1/8"	18,0	26,0	16,0	2,8
1485MF14	G 1/4"	R 1/4"	20,0	30,0	17,0	2,0
1485MF38	G 3/8"	R 3/8"	21,0	31,0	20,0	2,2
1485MF12	G 1/2"	R 1/2"	22,0	31,0	26,0	2,2
1485MF34	G 3/4"	R 3/4"	27,0	37,0	32,0	2,1
1485MF1	G 1"	R 1"	33,0	46,0	39,0	2,2
1485MF114	G 1-1/4"	R 1-1/4"	38,0	52,0	47,0	2,5
1485MF112	G 1-1/2"	R 1-1/2"	42,0	58,0	54,5	2,6
1485MF2	G 2"	R 2"	51,0	67,0	67,5	2,6
1485MF212	G 2-1/2"	R 2-1/2"	64,0	81,0	84,0	3,3
1485MF3	G 3"	R 3"	74,0	92,0	96,8	3,0
1485MF4	G 4"	R 4"	89,0	108,0	124,0	4,0



**1490MF**

Female tee BSPP thread



CODE	T	L1	L2	S
1490MF18	G 1/8"	16,0	14,0	1,9
1490MF14	G 1/4"	19,0	17,0	1,5
1490MF38	G 3/8"	21,0	20,0	2,3
1490MF12	G 1/2"	25,0	26,0	1,8
1490MF34	G 3/4"	30,0	32,0	1,9
1490MF1	G 1"	34,0	39,2	2,1
1490MF114	G 1-1/4"	40,0	42,0	2,3
1490MF112	G 1-1/2"	44,0	54,0	2,4
1490MF2	G 2"	53,5	67,5	2,5
1490MF212	G 2-1/2"	64,0	84,0	3,3
1490MF3	G 3"	73,0	97,0	3,3
1490MF4	G 4"	93,5	125,6	4,6



**STANDARD  
FITTINGS  
BRASS**

**PLUS**

**BODY THAT GUARANTEES A GOOD  
MECHANICAL RESISTANCE**

---

**SUITABLE FOR DIFFERENT NEEDS  
IN PNEUMATIC AND INDUSTRIAL  
SECTORS**

---

**WIDE RANGE OF THREADS AND  
CONFIGURATIONS AVAILABLE**





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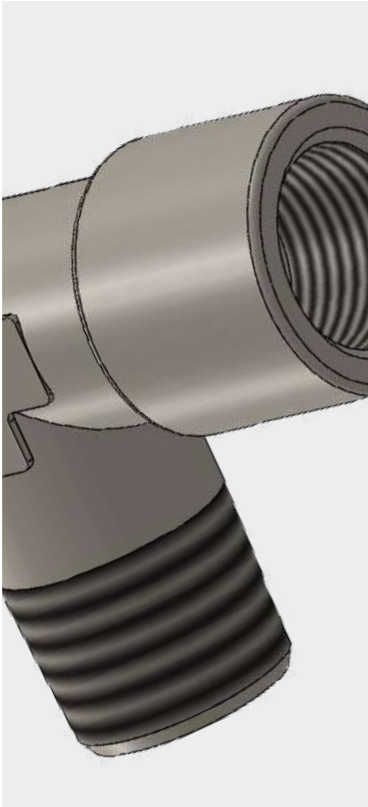
p. 278 / **1600**



p. 278 / **1110-3PCS**







-20°C ÷ 100°C with NBR o-ring  
 -15°C ÷ 200°C with Viton o-ring  
 The working temperature is determined by the properties of the tube used



**Working pressure:**  
 60 Bar  
 20 Bar (1110-3PCS)



Compressed air, water, oil and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1"
- Parallel gas BSPP ISO 228 from G1/8" to G1"
- Metric ISO 262 M5



**Body:** Nickel-plated brass  
 - Turning: UNI EN 12164 CW614N  
 - Hot forging & machining: UNI EN 12165 CW617N  
 - 1322 & 1110-3PCS: Yellow brass UNI EN 12165 CW614N  
 O-ring: NBR or Viton

**AVAILABILITY:**

- Available on request and with minimum quantity in yellow brass
- Available on request with NBR or Viton o-ring



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**TIGHTENING TORQUE**  
 TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nm	8	12	14	16	18	20

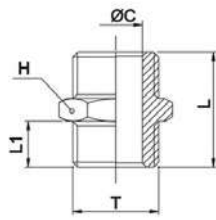
**TIGHTENING TORQUE**  
 PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Nm	0,8	1,2	1,5	2,5	3,5	4,5	5,5



**1105**

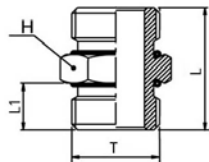
Nipple BSPP & metric thread



CODE	T	ØC	L	L1	H	g
1105TRM5	M5x0,8	2,5	11,0	4	8	2,0
1105TR18	G 1/8"	6,0	18,5	7	14	9,0
1105TR14	G 1/4"	8,5	21,0	8	17	15,0
1105TR38	G 3/8"	11,5	23,0	9	19	21,0
1105TR12	G 1/2"	15,0	25,0	10	24	34,0
1105TR34	G 3/4"	20,0	27,5	11	30	53,0
1105TR1	G 1"	26,0	32,0	13	36	84,0

**1106**

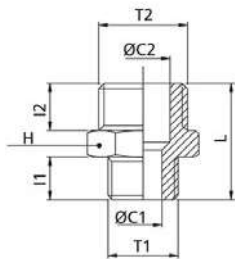
Nipple BSPP thread with NBR O-ring



CODE	T	L	L1	H	g
1106TR18	G 1/8"	14	6,5	17,5	8,0
1106TR14	G 1/4"	17	8	21	16,0
1106TR38	G 3/8"	20	9	23	24,0
1106TR12	G 1/2"	24	10	26	38,0

**1107**

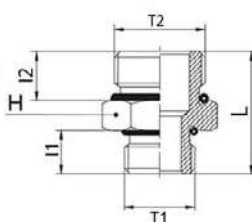
Reduced nipple BSPP & metric thread



CODE	T1	T2	ØC1	ØC2	I1	I2	L	H	g
1107TRM518	M5x0,8	G 1/8"	2,5	6,0	5,0	6,5	15,5	14	7,0
1107TR1814	G 1/8"	G 1/4"	5,5	8,5	6,5	8,0	19,0	17	14,0
1107TR1838	G 1/8"	G 3/8"	5,5	11,5	6,5	9,0	20,5	19	19,0
1107TR1438	G 1/4"	G 3/8"	8,5	11,5	8,0	9,0	22,0	19	19,0
1107TR1412	G 1/4"	G 1/2"	8,0	15,0	9,0	10,0	24,5	24	35,0
1107TR3812	G 3/8"	G 1/2"	11,0	15,0	9,0	10,0	24,5	24	36,0
1107TR3834	G 3/8"	G 3/4"	11,0	20,0	10,0	11,0	26,5	30	52,0
1107TR1234	G 1/2"	G 3/4"	15,0	20,0	11,0	11,0	27,5	30	52,0
1107TR341	G 3/4"	G 1"	20,0	25,5	11,0	13,0	30,0	36	71,0

**1108**

Reduced nipple BSPP thread with NBR O-ring

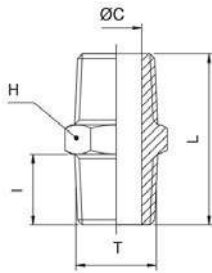


CODE	T1	T2	L	I1	I2	H	g
1108TR1814	G 1/8"	G 1/4"	19,5	6,5	8	17	14,0
1108TR1838	G 1/8"	G 3/8"	21	6,5	9	20	22,0
1108TR1438	G 1/4"	G 3/8"	22	8	9	20	24,0
1108TR1412	G 1/4"	G 1/2"	24	8	10	24	34,0
1108TR3812	G 3/8"	G 1/2"	25	9	10	24	34,0



## 1110

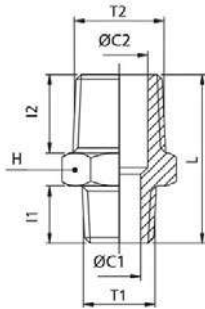
## Nipple BSPT thread



CODE	T	ØC	I	L	H	g
1110TR18	R 1/8"	6,0	7,5	19,0	12	7,0
1110TR14	R 1/4"	7,5	11,0	26,5	14	16,0
1110TR38	R 3/8"	11,5	11,0	27,0	17	23,0
1110TR12	R 1/2"	15,0	12,5	30,5	22	79,0
1110TR34	R 3/4"	20,0	14,0	34,5	27	61,0
1110TR1	R 1"	26,0	15,5	37,0	34	92,0

## 1112

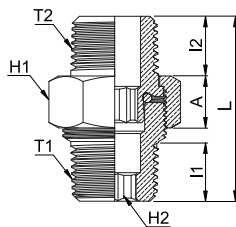
## Reduced nipple BSPT thread



CODE	T1	T2	ØC1	ØC2	I1	I2	L	H	g
1112TR1814	R 1/8"	R 1/4"	5,5	8,5	7,5	11,0	23,0	14	12,0
1112TR1838	R 1/8"	R 3/8"	5,5	11,5	7,5	11,0	23,5	17	19,0
1112TR1438	R 1/4"	R 3/8"	8,5	11,5	10,5	11,0	26,5	17	21,0
1112TR1412	R 1/4"	R 1/2"	8,0	15,0	10,5	12,5	28,5	22	32,0
1112TR3812	R 3/8"	R 1/2"	11,0	15,0	10,5	12,5	28,5	22	35,0
1112TR1234	R 1/2"	R 3/4"	15,0	20,0	12,5	14,0	32,5	27	58,0
1112TR341	R 3/4"	R 1"	20,0	25,5	13,0	15,5	35,5	34	91,0

## 1113

## Swivel male nipple 3 pieces BSPT thread

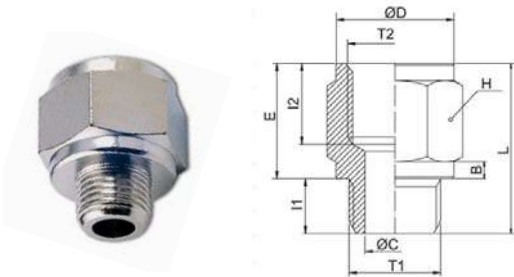


CODE	T1	T2	L	I1	I2	A	H1	H2
1113TR1818	R 1/8"	R 1/8"	28,5	9,0	9,0	9	15	4
1113TR1414	R 1/4"	R 1/4"	34,0	11,0	11,0	10	19	5
1113TR3838	R 3/8"	R 3/8"	35,5	11,5	11,5	10	22	8
1113TR1212	R 1/2"	R 1/2"	41,0	14,0	14,0	11	27	10



**1115**

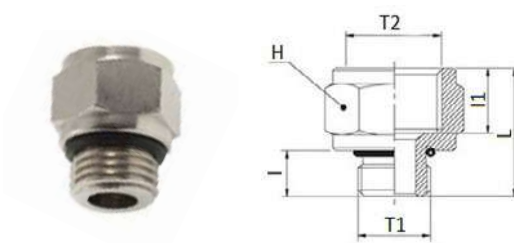
## Enlarger M/F BSPP &amp; metric thread



CODE	T1	T2	B	ØC	ØD	I1	I2	E	L	H	g
1115TRM5	M5x0,8	M5x0,8	1,5	2,5	7,5	4,5	5,0	6,5	11,0	8	3,0
1115TRM518	M5x0,8	G 1/8"	2,0	2,2	13,5	5,0	7,0	11,0	16,0	14	10,0
1115TRM618	M6x1	G 1/8"	2,0	2,7	13,5	6,0	7,0	11,0	17,0	14	10,0
1115TR18	G 1/8"	G 1/8"	2,0	5,5	13,5	6,5	8,0	11,0	17,5	14	11,0
1115TR1814	G 1/8"	G 1/4"	2,0	5,5	16,5	6,5	10,5	13,5	20,0	17	18,0
1115TR1838	G 1/8"	G 3/8"	2,5	5,5	21,5	6,5	10,5	14,0	20,5	22	33,0
1115TR14	G 1/4"	G 1/4"	2,0	8,5	16,5	8,0	10,5	13,5	21,5	17	19,0
1115TR1438	G 1/4"	G 3/8"	2,5	8,0	21,5	9,0	10,5	14,0	23,0	22	32,0
1115TR1412	G 1/4"	G 1/2"	3,0	8,0	26,5	9,0	12,5	17,0	26,0	27	51,0
1115TR38	G 3/8"	G 3/8"	2,5	11,0	21,5	9,0	10,5	14,0	23,0	22	32,0
1115TR3812	G 3/8"	G 1/2"	3,0	11,0	26,5	9,0	12,5	17,0	26,0	27	54,0
1115TR3834	G 3/8"	G 3/4"	3,0	11,0	31,5	9,0	12,5	17,0	26,0	32	66,0
1115TR12	G 1/2"	G 1/2"	3,0	15,0	26,5	10,5	12,5	16,0	26,5	27	56,0
1115TR1234	G 1/2"	G 3/4"	3,0	15,0	31,5	10,5	12,5	17,0	27,5	32	71,0
1115TR121	G 1/2"	G 1"	3,0	15,0	37,5	11,0	12,5	18,0	29,0	38	93,0
1115TR34	G 3/4"	G 3/4"	3,0	20,0	31,5	10,5	12,5	17,0	27,5	32	69,0
1115TR341	G 3/4"	G 1"	3,0	20,0	37,5	11,0	12,5	18,0	29,0	38	93,0
1115TR1	G 1"	G 1"	3,0	26,0	37,5	13,0	12,5	18,0	31,0	38	96,0

**1116**

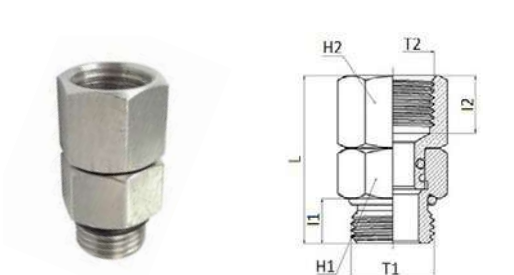
## Enlarger M/F BSPP thread with NBR O-ring



CODE	T1	T2	L	I	I1	H	g
1116TR18	G 1/8"	G 1/8"	17,0	6,5	8,5	17	12,3
1116TR1814	G 1/8"	G 1/4"	20,0	6,5	11	20	13,0
1116TR1838	G 1/8"	G 3/8"	21,0	6,5	11,5	21	31,0
1116TR14	G 1/4"	G 1/4"	21,5	8	11	21,5	18,0
1116TR1438	G 1/4"	G 3/8"	22,5	8	11,5	22,5	32,0
1116TR1412	G 1/4"	G 1/2"	26,0	9	14	26	36,0
1116TR38	G 3/8"	G 3/8"	23,5	9	11,5	23,5	32,0
1116TR3812	G 3/8"	G 1/2"	27,0	9	14	27	38,0

**1118**

## Swivel nipple M/F BSPP thread with NBR O-ring

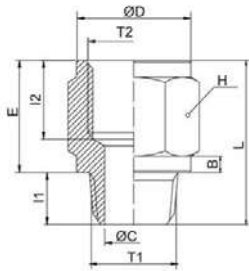


CODE	T1	T2	I1	I2	L	H1	H2	g
1118TR18	G 1/8"	G 1/8"	6,5	8	27,0	13	13	2,0
1118TR14	G 1/4"	G 1/4"	8	11	32,0	16	16	32,0
1118TR38	G 3/8"	G 3/8"	9	11,5	33,5	19	19	44,0



**1120**

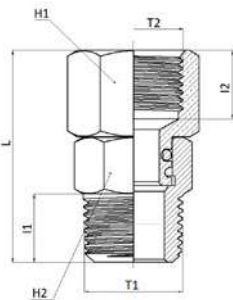
## Enlarger M/F, male BSPT thread &amp; female BSPP thread



CODE	T1	T2	B	ØC	ØD	I1	I2	E	L	H	g
1120TR18	R 1/8"	G 1/8"	2,0	5,5	13,5	7,5	8	11,0	18,5	14	12,0
1120TR1814	R 1/8"	G 1/4"	2,0	5,5	16,5	7,5	10,5	13,5	21,0	17	18,0
1120TR1838	R 1/8"	G 3/8"	2,5	5,5	21,5	7,5	10,5	14,0	21,5	22	31,0
1120TR14	R 1/4"	G 1/4"	2,0	8,5	16,5	10,5	10,5	13,5	24,0	17	18,0
1120TR1438	R 1/4"	G 3/8"	2,5	8,0	21,5	10,5	10,5	14,0	24,5	22	32,0
1120TR1412	R 1/4"	G 1/2"	3,0	8,0	26,5	10,5	12,5	17,0	27,5	27	52,0
1120TR38	R 3/8"	G 3/8"	2,5	11,0	21,5	10,5	10,5	14,0	24,5	22	37,0
1120TR3812	R 3/8"	G 1/2"	3,0	11,0	26,5	10,5	12,5	17,0	27,5	27	55,0
1120TR3834	R 3/8"	G 3/4"	3,0	11,0	31,5	11,0	12,5	17,0	28,0	32	74,0
1120TR12	R 1/2"	G 1/2"	3,0	15,0	26,5	12,5	12,5	16,0	28,5	27	54,0
1120TR1234	R 1/2"	G 3/4"	3,0	15,0	31,5	12,5	12,5	17,0	29,5	32	70,0
1120TR121	R 1/2"	G 1"	3,0	15,0	37,5	13,0	12,5	18,0	31,0	38	91,0
1120TR34	R 3/4"	G 3/4"	3,0	20,0	31,5	13,0	12,5	17,0	30,0	32	74,0
1120TR341	R 3/4"	G 1"	3,0	20,0	37,5	13,0	12,5	18,0	31,0	38	97,0
1120TR1	R 1"	G 1"	3,0	26,0	37,5	15,5	12,5	18,0	33,5	38	100,0

**1122**

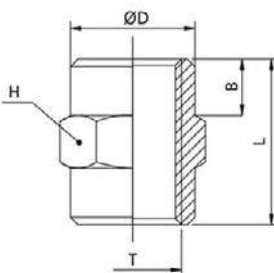
## Swivel enlarger M/F, male BSPT thread &amp; female BSPP thread



CODE	T1	T2	I1	I2	L	H1	H2	g
1122TR18	R 1/8"	R 1/8"	8	8	28	12	13	2,0
1122TR14	R 1/4"	R 1/4"	11	11	34	14	16	3,0
1122TR1838	R 1/8"	R 3/8"	11,5	11,5	35,5	17	19	42,0

**1125**

## Female sleeve BSPP &amp; metric thread

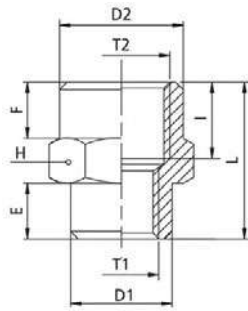


CODE	T	ØD	B	L	H	g
1125TRM5	M5x0,8	7,5	3,5	11,0	8	3,0
1125TR18	G 1/8"	13,5	5,0	15,0	14	10,0
1125TR14	G 1/4"	16,5	8,0	22,0	17	18,0
1125TR38	G 3/8"	21,5	8,5	24,0	22	37,0
1125TR12	G 1/2"	26,5	10,0	29,0	27	62,0
1125TR34	G 3/4"	31,5	10,0	29,0	32	70,0
1125TR1	G 1"	37,5	11,0	31,0	38	89,0



**1126**

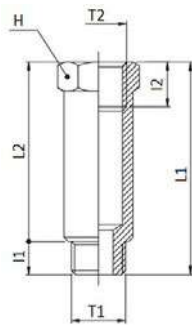
Reduced female sleeve BSPP & metric thread



CODE	T1	T2	ØD1	ØD2	I	E	F	L	H	g
1126TRM518	M5x0,8	G 1/8"	8,0	13,5	7,0	3,5	4,5	12,5	14	9,0
1126TR1814	G 1/8"	G 1/4"	13,0	16,5	11,0	6,0	8,0	20,0	17	18,0
1126TR1838	G 1/8"	G 3/8"	14,0	21,5	11,0	6,0	8,0	20,0	22	28,0
1126TR1438	G 1/4"	G 3/8"	17,0	21,5	11,0	7,0	8,0	21,0	22	30,0
1126TR1412	G 1/4"	G 1/2"	17,0	26,5	13,0	8,0	9,0	24,0	27	46,0
1126TR3812	G 3/8"	G 1/2"	21,5	26,5	13,0	8,0	9,0	24,0	27	48,0
1126TR3834	G 3/8"	G 3/4"	21,0	31,5	13,5	8,0	10,0	25,0	32	64,0
1126TR1234	G 1/2"	G 3/4"	26,0	31,5	13,5	8,0	10,0	25,0	32	65,0
1126TR121	G 1/2"	G 1"	26,0	37,0	14,0	8,0	10,0	25,0	38	84,0
1126TR341	G 3/4"	G 1"	32,0	37,0	14,0	8,0	10,0	25,0	38	83,0

**1130**

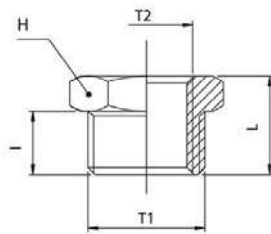
Extension M/F BSPP thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1130TR181422	G 1/8"	G 1/8"	6	8,0	22	16	14	14,0
1130TR181442	G 1/8"	G 1/8"	6	8,0	42	36	14	30,0
1130TR181451	G 1/8"	G 1/8"	6	8,0	51	45	14	36,0
1130TR141735	G 1/4"	G 1/4"	8	11,0	35	27	17	32,0
1130TR141751	G 1/4"	G 1/4"	8	11,0	51	43	17	46,0

**1135**

Reduced M/F BSPP & metric thread

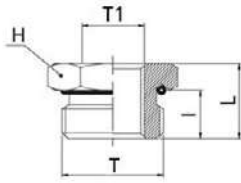


CODE	T1	T2	I	L	H	g
1135TRM518	G 1/8"	M5x0,8	6,5	10,5	14	7,0
1135TR1418	G 1/4"	G 1/8"	8,0	12,5	17	10,0
1135TR3818	G 3/8"	G 1/8"	9,0	14,0	19	18,0
1135TR3814	G 3/8"	G 1/4"	9,0	14,0	19	13,0
1135TR1218	G 1/2"	G 1/8"	10,0	15,0	24	39,0
1135TR1214	G 1/2"	G 1/4"	10,0	15,0	24	32,0
1135TR1238	G 1/2"	G 3/8"	10,0	15,0	24	21,0
1135TR3414	G 3/4"	G 1/4"	11,0	16,5	30	64,0
1135TR3438	G 3/4"	G 3/8"	11,0	16,5	30	52,0
1135TR3412	G 3/4"	G 1/2"	11,0	16,5	30	36,0
1135TR138	G 1"	G 3/8"	13,5	19,5	36	110,0
1135TR112	G 1"	G 1/2"	13,0	19,0	36	90,0
1135TR134	G 1"	G 3/4"	13,0	19,0	36	59,0



**1136**

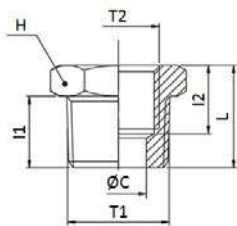
## Reduced M/F BSPP &amp; metric thread with NBR O-ring



CODE	T	T1	I	L	H	g
1136TR18M5	G 1/8"	M5x0,8	6,5	11	14	8,0
1136TR1418	G 1/4"	G 1/8"	8	13	17	10,0
1136TR3818	G 3/8"	G 1/8"	9	14	20	12,0
1136TR3814	G 3/8"	G 1/4"	9	14	20	14,0
1136TR1218	G 1/2"	G 1/8"	10	15,5	24	38,0
1136TR1214	G 1/2"	G 1/4"	10	15,5	24	39,0
1136TR1238	G 1/2"	G 3/8"	10	15,5	24	40,0

**1140**

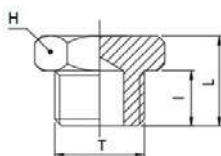
## Reduced male BSPT thread &amp; female BSPP thread



CODE	T1	T2	ØC	I1	I2	L	H	g
1140TR1418	R 1/4"	G 1/8"	6,0	11,0	9,0	15,5	14	9,0
1140TR3818	R 3/8"	G 1/8"	6,5	11,0	9,0	15,5	17	21,0
1140TR3814	R 3/8"	G 1/4"	8,5	11,0	11,0	15,5	17	13,0
1140TR1218	R 1/2"	G 1/8"	6,0	12,5	10,0	18,0	22	42,0
1140TR1214	R 1/2"	G 1/4"	8,5	12,5	11,5	18,0	22	34,0
1140TR1238	R 1/2"	G 3/8"	11,5	12,5	11,5	18,0	22	25,0
1140TR3414	R 3/4"	G 1/4"	8,5	14,0	12,0	20,0	27	74,0
1140TR3438	R 3/4"	G 3/8"	11,5	14,0	12,0	20,0	27	62,0
1140TR3412	R 3/4"	G 1/2"	15,0	14,0	14,0	20,0	27	43,0
1140TR138	R 1"	G 3/8"	15,0	15,5	13,0	21,5	34	123,0
1140TR112	R 1"	G 1/2"	15,0	15,5	14,0	21,5	34	144,0
1140TR134	R 1"	G 3/4"	20,0	15,5	14,0	21,5	34	173,0

**1145**

## Male plug BSPP &amp; metric thread

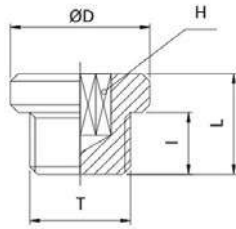


CODE	T	I	L	H	g
1145TRM5	M5x0,8	4,5	7,5	8	4,0
1145TR18	G 1/8"	6,0	10,0	14	7,0
1145TR14	G 1/4"	8,0	12,5	17	12,0
1145TR38	G 3/8"	9,0	13,5	19	19,0
1145TR12	G 1/2"	10,0	15,0	24	28,0
1145TR34	G 3/4"	11,0	16,5	30	46,0
1145TR1	G 1"	12,5	18,5	36	79,0



**1148**

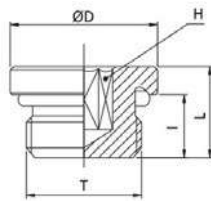
Male plug BSPP & metric thread with exagon embedded



CODE	T	I	L	ØD	H	g
1148TRM5	M5x0,8	4,0	6,5	8	2,5	2,0
1148TR18	G 1/8"	6,0	10,0	15	5	8,0
1148TR14	G 1/4"	8,0	12,0	18	6	12,0
1148TR38	G 3/8"	9,0	13,0	21	8	22,0
1148TR12	G 1/2"	10,0	14,5	25	10	36,0
1148TR34	G 3/4"	11,0	15,5	31	14	-
1148TR1	G 1"	12,5	17,5	38	17	-

**1149**

Male plug BSPP & metric thread with exagon embedded and NBR O-ring



CODE	T	I	L	ØD	H	g
1149TRM5	M5x0,8	4,5	7,2	8,0	2,5	1,4
1149TR18	G 1/8"	6,5	9,5	14,0	5	6,0
1149TR14	G 1/4"	8,0	11,5	17,0	6	12,0
1149TR38	G 3/8"	9,0	12,5	20,0	8	18,0
1149TR12	G 1/2"	10,0	14,0	25,0	10	34,0

**1150**

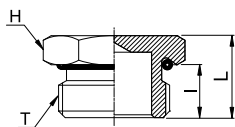
Male plug BSPT thread



CODE	T	I	L	H	g
1150TR18	R 1/8"	7,5	11,5	10	4,0
1150TR14	R 1/4"	11,0	15,5	14	9,0
1150TR38	R 3/8"	11,0	16,0	17	17,0
1150TR12	R 1/2"	12,0	17,5	22	29,0
1150TR34	R 3/4"	13,5	19,5	27	60,0
1150TR1	R 1"	15,5	22,0	34	92,0

**1152**

Male plug BSPP thread with O-ring



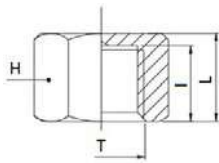
CODE	T	I	L	H	g
1152TR18	G 1/8"	6,5	10,5	14	-
1152TR14	G 1/4"	8,0	12,5	17	-
1152TR38	G 3/8"	9,0	13,5	20	-
1152TR12	G 1/2"	10,0	15,5	24	-





## 1155

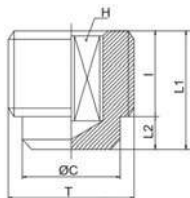
## Female plug BSPP &amp; metric thread



CODE	T	I	L	H	g
1155TRM5	M5x0,8	5,5	7,0	8	2,0
1155TR18	G 1/8"	9,0	11,0	14	5,0
1155TR14	G 1/4"	11,0	13,0	17	17,0
1155TR38	G 3/8"	11,0	13,5	21	23,0
1155TR12	G 1/2"	11,0	13,5	24	44,0
1155TR34	G 3/4"	12,5	15,0	30	44,0
1155TR1	G 1"	12,5	15,0	38	56,0

## 1160

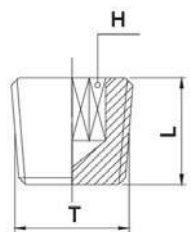
## Male plug BSPP thread with exagon embedded



CODE	T	I	ØC	L1	L2	H	g
1160TR18	G 1/8"	4,0	8,0	7,0	3,0	5	2,0
1160TR14	G 1/4"	6,0	10,5	10,0	4,0	6	6,0
1160TR38	G 3/8"	6,0	13,5	10,0	4,0	8	10,0
1160TR12	G 1/2"	6,5	17,5	11,0	4,0	10	13,0

## 1161

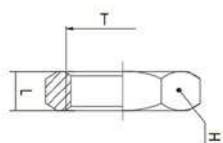
## Male flat plug BSPT thread with exagon embedded



CODE	T	L	H	g
1161TR18	R 1/8"	8,0	5	3,0
1161TR14	R 1/4"	10,0	6	7,0
1161TR38	R 3/8"	10,5	8	23,0
1161TR12	R 1/2"	13,0	10	24,0
1161TR34	R 3/4"	15,5	14	32,0
1161TR1	R 1"	17,5	17	45,0

## 1175

## Nut BSPP &amp; metric thread

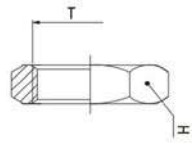


CODE	T	L	H	g
1175TRM5	M5x0,8	2,5	9	1,0
1175TR18	G 1/8"	3,5	12	3,0
1175TR14	G 1/4"	4,0	16	2,0
1175TR38	G 3/8"	4,5	19	3,0
1175TR12	G 1/2"	4,5	24	6,0
1175TR34	G 3/4"	5,0	30	10,0
1175TR1	G 1"	6,0	38	20,0



## 1176

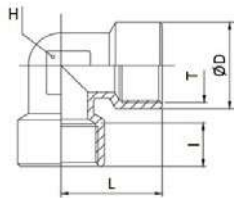
## Bulkhead locking nut metric thread



CODE	T	H	g
1176TRM101	M10x1	14	3,0
1176TRM121	M12X1	16	3,8
1176TRM1615	M16X1,5	19	5,0
1176TRM1815	M18X1,5	22	7,0
1176TRM2015	M20X1,5	24	18,0
1176TRM2215	M22X1,5	25	17,0
1176TRM2615	M26X1,5	32	21,0
1176TRM2815	M28X1,5	36	23,0

## 1200

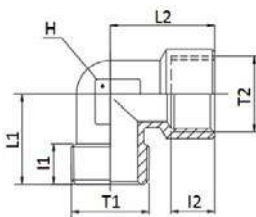
## Elbow F/F BSPP &amp; metric thread



CODE	T	I	ØD	L	H	g
1200TRM5	M5x0,8	5,5	9,0	11,0	8	6,0
1200TR18	G 1/8"	8,0	13,5	20,5	10	19,0
1200TR14	G 1/4"	11,5	16,5	31,0	13	33,0
1200TR38	G 3/8"	12,0	21,0	36,0	17	57,0
1200TR12	G 1/2"	15,0	26,0	44,0	21	109,0
1200TR34	G 3/4"	16,5	32,0	36,5	25	144,0
1200TR1	G 1"	19,0	39,0	45,0	30	244,0

## 1205

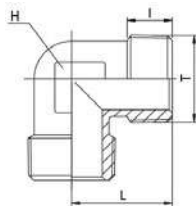
## Elbow male BSPT thread and female BSPP &amp; metric thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1205TRM5	M5x0,8	M5x0,8	5,0	5,5	11,5	11	8	7,0
1205TR18	R 1/8"	G 1/8"	9,5	8,0	17,5	19,5	10	16,0
1205TR14	R 1/4"	G 1/4"	11,5	11,5	24,0	25	13	31,0
1205TR38	R 3/8"	G 3/8"	13,0	12,0	27,5	27,5	17	46,0
1205TR12	R 1/2"	G 1/2"	15,0	15,0	30,0	33,5	21	92,0
1205TR34	R 3/4"	G 3/4"	16,0	16,5	33,0	36,5	25	120,0
1205TR1	R 1"	G 1"	17,0	19,0	39,0	45,0	30	212,0

## 1210

## Elbow M/M BSPT &amp; metric thread

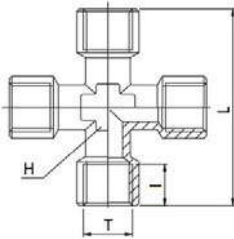


CODE	T	I	L	H	g
1210TRM5	M5x0,8	5,0	13,5	8	6,0
1210TR18	R 1/8"	9,0	18,5	10	13,0
1210TR14	R 1/4"	11,5	22,0	12	20,0
1210TR38	R 3/8"	13,0	26,0	13	31,0
1210TR12	R 1/2"	14,0	28,5	17	55,0
1210TR34	R 3/4"	16,0	33,0	25	100,0
1210TR1	R 1"	17,0	39,0	30	174,0



**1215**

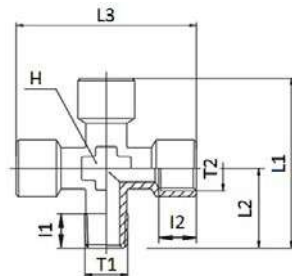
Equal female cross BSPP thread



CODE	T	I	L	H	g
1215TR18	G 1/8"	8,0	42,0	10	38,0
1215TR14	G 1/4"	11,0	51,0	13	76,0
1215TR38	G 3/8"	11,5	56,0	17	108,0
1215TR12	G 1/2"	14,0	67,0	21	186,0

**1216**

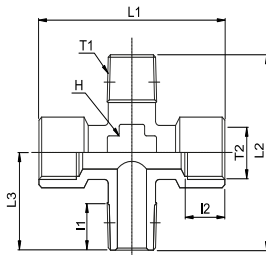
Equal cross male BSPT thread & female BSPP thread



CODE	T1	T2	I1	I2	L1	L2	L3	H	g
1216TR18	R 1/8"	G 1/8"	8,0	8,0	39,5	18,5	42	10	34,0
1216TR14	R 1/4"	G 1/4"	11,0	11,0	49,0	23,5	51	13	68,0
1216TR38	R 3/8"	G 3/8"	11,5	11,5	54,0	26,0	56	17	100,0
1216TR12	R 1/2"	G 1/2"	14,0	14,0	64,5	31,0	67	21	168,0

**1218**

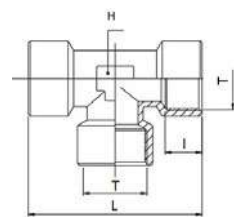
Equal cross male BSPT thread & female BSPP thread



CODE	T1	T2	I1	I2	L1	L2	L3	H	g
1218TR14	R 1/4"	G 1/4"	11	11	51,0	47,0	23,5	13	-

**1220**

Female tee BSPP & metric thread

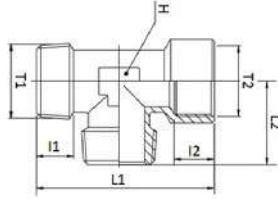


CODE	T	I	L	H	g
1220TRM5	M5x0,8	5,5	26,5	8	7,0
1220TR18	G 1/8"	8,0	40,0	10	28,0
1220TR14	G 1/4"	11,5	50,0	13	49,0
1220TR38	G 3/8"	12,0	57,0	17	85,0
1220TR12	G 1/2"	15,0	68,5	21	146,0
1220TR34	G 3/4"	16,5	73,0	25	194,0
1220TR1	G 1"	19,0	90,0	30	326,0



**1225**

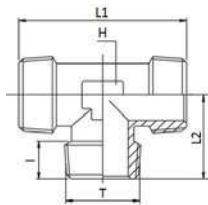
Tee M/M/F, male BSPT & metric and female BSPP & metric thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1225TRM5	M5x0,8	M5x0,8	5,0	5,5	26,0	13,0	8	8,0
1225TR18	R 1/8"	G 1/8"	9,5	8,0	38,5	18,5	10	25,0
1225TR14	R 1/4"	G 1/4"	11,5	11,5	47,5	23,5	13	43,0
1225TR38	R 3/8"	G 3/8"	13,0	12,0	56,0	26,0	17	72,0
1225TR12	R 1/2"	G 1/2"	15,0	15,0	67,5	32,0	21	102,0
1225TR34	R 3/4"	G 3/4"	16,0	16,5	69,5	33,0	25	156,0
1225TR1	R 1"	G 1"	17,5	19,0	84,0	39,0	30	268,0

**1230**

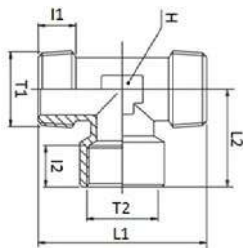
Male tee BSPT & metric thread



CODE	T	I	L1	L2	H	g
1230TRM5	M5x0,8	5,0	27,5	13,5	8	8,0
1230TR18	R 1/8"	9,5	36,0	17,0	10	20,0
1230TR14	R 1/4"	11,5	48,0	24,0	12	38,0
1230TR38	R 3/8"	12,0	48,0	24,0	13	47,0
1230TR12	R 1/2"	15,0	57,0	28,0	17	80,0
1230TR34	R 3/4"	16,2	66,4	33,0	25	134,0
1230TR1	R 1"	17,5	78,0	39,0	30	236,0

**1235**

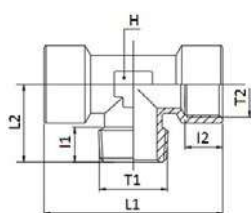
Tee male BSPT & metric and female BSPP & metric thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1235TRM5	M5x0,8	M5x0,8	5,0	5,5	27,5	13,0	8	6,0
1235TR18	R 1/8"	G 1/8"	9,5	8,0	36,5	19,5	10	22,0
1235TR14	R 1/4"	G 1/4"	11,5	11,5	48,0	25,5	13	37,0
1235TR38	R 3/8"	G 3/8"	13,0	12,0	51,5	28,0	17	62,0
1235TR12	R 1/2"	G 1/2"	15,0	15,0	63,0	34,0	21	118,0
1235TR34	R 3/4"	G 3/4"	16,0	16,5	66,4	36,5	25	156,0
1235TR1	R 1"	G 1"	17,5	19,0	78,0	45,0	30	268,0

**1240**

Tee male BSPT & metric and female BSPP & metric thread

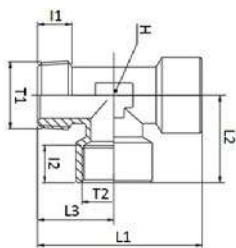


CODE	T1	T2	I1	I2	L1	L2	H	g
1240TRM5	M5x0,8	M5x0,8	5,0	5,5	26,5	11,5	8	9,0
1240TR18	R 1/8"	G 1/8"	9,5	8,0	40,0	18,5	10	22,0
1240TR14	R 1/4"	G 1/4"	11,5	11,5	50,0	24,5	13	49,0
1240TR38	R 3/8"	G 3/8"	13,0	12,0	57,0	26,5	17	75,0
1240TR12	R 1/2"	G 1/2"	15,0	15,0	68,5	32,0	21	127,0
1240TR34	R 3/4"	G 3/4"	16,0	16,5	73,0	33,0	25	178,0
1240TR1	R 1"	G 1"	17,5	19,0	90,0	39,0	30	296,0



## 1245

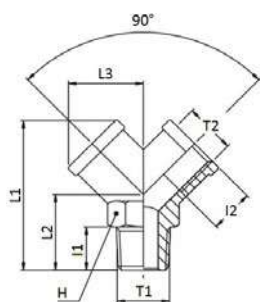
## Tee male BSPT &amp; metric and female BSPP &amp; metric thread



CODE	T1	T2	I1	I2	L1	L2	L3	H	g
1245TRM5	M5x0,8	M5x0,8	5,0	5,5	26,0	13,0	12,0	8	9,0
1245TR18	R 1/8"	G 1/8"	9,5	8,0	38,5	19,5	18,5	10	24,0
1245TR14	R 1/4"	G 1/4"	11,5	11,5	49,0	25,0	24,0	13	44,0
1245TR38	R 3/8"	G 3/8"	13,0	12,0	54,0	28,5	25,5	17	74,0
1245TR12	R 1/2"	G 1/2"	15,0	15,0	65,5	34,5	31,0	21	132,0
1245TR34	R 3/4"	G 3/4"	16,0	16,5	69,5	36,5	33,0	25	172,0
1245TR1	R 1"	G 1"	17,5	19,0	84,0	45,0	39,0	30	298,0

## 1300

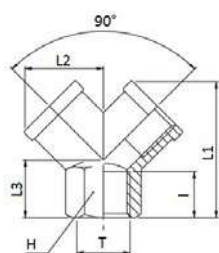
## Y male BSPT thread &amp; female BSPP thread



CODE	T1	T2	I1	I2	L1	L2	L3	H	g
1300TR18	R 1/8"	G 1/8"	8,0	8,0	32,0	16	14,5	13	22,0
1300TR14	R 1/4"	G 1/4"	11,0	11,0	38,0	20	18,0	17	38,0
1300TR38	R 3/8"	G 3/8"	11,5	11,5	42,5	22	20,5	20	52,0
1300TR12	R 1/2"	G 1/2"	14,0	14,0	53,0	27	26,5	25	110,0

## 1310

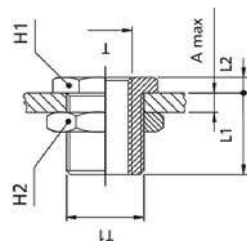
## Female Y BSPP thread



CODE	T	I	L1	L2	L3	H	g
1310TR18	G 1/8"	8,0	26,5	14,5	12	13	18,0
1310TR14	G 1/4"	11,0	32,0	18,0	14	17	32,0
1310TR38	G 3/8"	11,5	37,0	20,5	16	20	44,0
1310TR12	G 1/2"	14,0	45,0	26,5	19	25	92,0

## 1320

## Female bulkhead connector BSPP &amp; metric thread

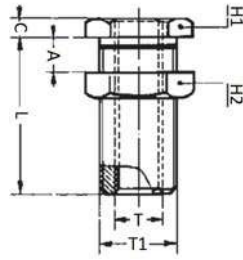


CODE	T	T1	A MAX	L1	L2	H1	H2	g
1320TRM5M101	M5x0,8	M10x1	7	10,5	3,5	14	14	12,0
1320TR18M1615	G 1/8"	M16x1,5	10	14,0	4,0	19	22	30,0
1320TR14M2015	G 1/4"	M20x1,5	16	21,0	4,0	24	27	58,0
1320TR38M2615	G 3/8"	M26x1,5	15	21,0	5,0	30	32	94,0
1320TR12M2815	G 1/2"	M28x1,5	21	27,0	6,0	32	36	116,0



**1322**

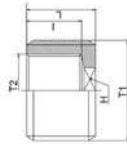
Female bulkhead connector BSPP thread, yellow brass



CODE	T	T1	C	L	A	H1	H2
1322TR18M1615	G 1/8"	M16x1,5	4	14,0	9	19	19
1322TR14M2015	G 1/4"	M20x1,5	4	21,0	15	24	24
1322TR38M2615	G 3/8"	M26x1,5	5	21,0	14	30	30
1322TR12M282	G 1/2"	M28x2	6	27,0	20	32	32
1322TR34M342	G 3/4"	M34x2	6	30,0	22,5	41	41
1322TR114M492	G 1-1/4"	M49x2	8	39,0	29,5	55	55

**1600**

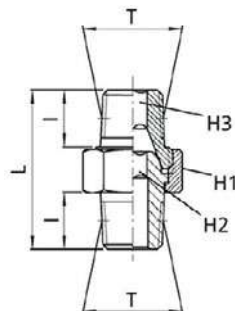
Reducer M/F BSPP & metric thread with exagon embedded



CODE	T1	T2	I	L	H	g
1600TRM518	G 1/8"	M5x0,8	6,5	8,0	3	3,0
1600TR1418	G 1/4"	G 1/8"	7,0	9,0	6	7,0
1600TR3818	G 3/8"	G 1/8"	7,0	9,0	6	10,0
1600TR3814	G 3/8"	G 1/4"	7,0	9,0	8	6,0
1600TR1214	G 1/2"	G 1/4"	8,5	10,5	10	23,0
1600TR1238	G 1/2"	G 3/8"	8,5	10,5	10	10,0
1600TR3412	G 3/4"	G 1/2"	11,0	13,0	12	35,0
1600TR134	G 1"	G 3/4"	12,5	15,0	17	38,0

**1110-3PCS**

Nipple 3 pieces male BSPT thread, yellow brass



CODE	T	I	L	H1	H2	H3	g
1110TR18-3P	R 1/8"	9,0	27,0	15	5	5	59,0
1110TR14-3P	R 1/4"	12,0	33,5	19	6	6	65,0
1110TR38-3P	R 3/8"	13,0	36,5	22	8	8	71,0
1110TR12-3P	R 1/2"	16,0	44,0	27	12	12	86,0
1110TR34-3P	R 3/4"	18,0	53,0	36	14	14	103,0
1110TR1-3P	R 1"	22,0	64,0	46	19	19	124,0

Available with internal seal (up to 3/4" thread)  
by adding at the end of the code -OR



**STANDARD  
FITTINGS  
BAYONET  
JOINT**

**PLUS**

**WIDE RANGE SUITABLE FOR  
PNEUMATIC APPLICATIONS**

---

**CONNECTIONS FOR STANDARD  
AND BAYONET JOINT**

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**PERFECTLY SUITABLE WITH OUR  
PVC-AC AND PU-PVC TUBES**





p. 282 / **1255**



p. 282 / **1260**



p. 282 / **1265**



p. 282 / **1270**



p. 283 / **1290**



p. 283 / **1256**



p. 283 / **1280**



p. 283 / **1285**



p. 284 / **1288**



p. 284 / **1275**



p. 284 / **1291**



p. 285 / **1163**



p. 285 / **1166**



p. 286 / **1164**



p. 286 / **1292**



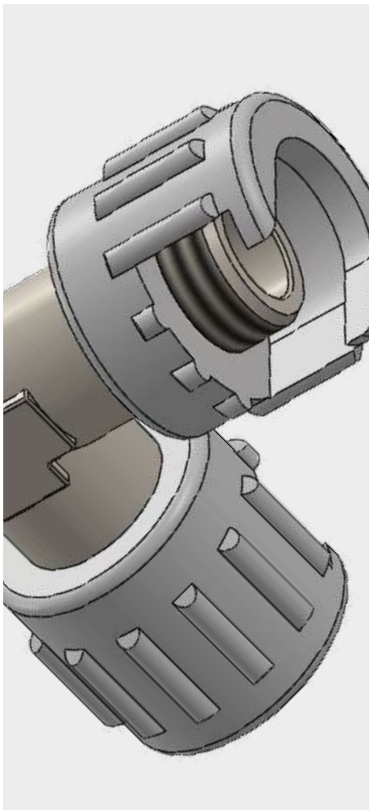
p. 287 / **1278**



p. 287 / **1295**







-18°C ÷ +18°C

The working temperature is determined by the properties of the tube used



**Working pressure:**

12 Bar

The working pressure is determined by the properties of the tube used



Compressed air



Parallel gas BSPP ISO 228  
from G1/8" to G1/2"



Body: Nickel-plated brass

Nut: Nickel-plated brass

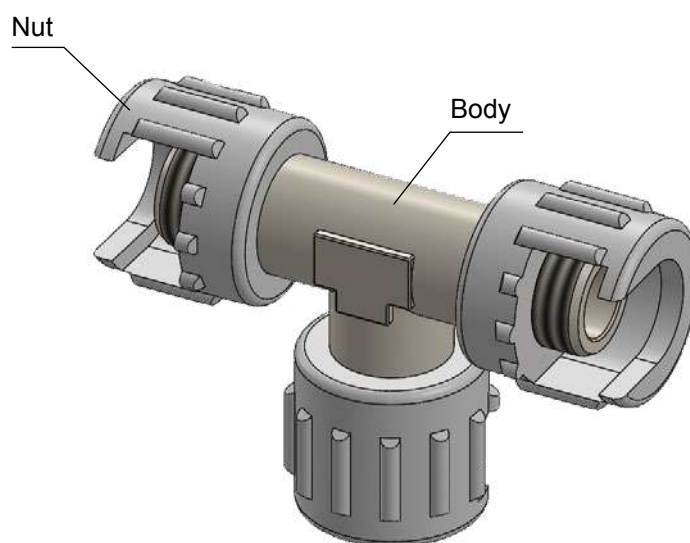


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



**1255**

Milled nut



CODE	THREAD	g
1255TR14	1/4"	14,0
1255TR14125	1/4"/125	14,0
1255TR38	3/8"	11,0

**1260**

Union tee with milled nuts



CODE	THREAD	g
1260TR14	G 1/4"	82,0

**1265**

Male connector BSPP thread with milled nut



CODE	THREAD	g
1265TR18	G 1/8"	-
1265TR14	G 1/4"	71,0
1265TR38	G 3/8"	73,0
1265TR12	G 1/2"	82,0

**1270**

Union connector with milled nuts



CODE	THREAD	g
1270TR14	G 1/4"	81,0



**1290**

## Female connector with milled nut



CODE	THREAD	g
1290TR18	G 1/8"	28,0
1290TR14	G 1/4"	29,0
1290TR38	G 3/8"	40,0

**1256**

## Bayonet joints gasket



CODE	g
1256	10,0
LARGE BAYONET JOINT GASKET	
1256-GG	-

**1280**

## Male bayonet joint BSPP thread



CODE	THREAD	g
1280TR18	G 1/8"	16,0
1280TR14	G 1/4"	16,0
1280TR38	G 3/8"	18,0

**1285**

## Female bayonet joint BSPP thread



CODE	THREAD	g
1285TR18	G 1/8"	17,0
1285TR14	G 1/4"	19,0
1285TR38	G 3/8"	18,0



**1288**

## Bayonet joint with barb connector



CODE	Ø TUBE	g
1288TR6	6	10,0
1288TR7	7	12,0
1288TR8	8	13,0
1288TR9	9	15,0
1288TR10	10	14,0
1288TR11	11	16,0
1288TR12	12	19,0
1288TR14	14	18,0

**1275**

## Bayonet joint with rubber and PU hose connector



CODE	Ø TUBE	g
1275TR610	6x10	38,0
1275TR612	6x12	35,0
1275TR613	6x13	38,0
1275TR614	6x14	36,0
1275TR716	7x16	43,0
1275TR812	8x12	33,0
1275TR813	8x13	40,0
1275TR815	8x15	42,0
1275TR817	8x17	31,0
1275TR1015	10x15	45,0
1275TR1017	10x17	49,0
1275TR1019	10x19	60,0

**1291**

## Large bayonet joint with rubber and PU hose connector



CODE	Ø TUBE	g
1291BG1019	10x19	112
1291BG1020	10x20	112
1291BG1021	10x21	112
1291BG1022	10x22	117
1291BG1023	10x23	119
1291BG1319	13x19	117
1291BG1320	13x20	118
1291BG1323	13x23	127
1291BG1324	13x24	150
1291BG1325	13x25	150



**1163**

## Male connector BSPP thread with rubber and PU hose connector



CODE	Ø TUBE	THREAD	g
1163TR61014	6x10	G 1/4"	33,0
1163TR61214	6x12	G 1/4"	30,0
1163TR61314	6x13	G 1/4"	34,0
1163TR61414	6x14	G 1/4"	34,0
1163TR71614	7x16	G 1/4"	38,0
1163TR81214	8x12	G 1/4"	35,0
1163TR81314	8x13	G 1/4"	36,0
1163TR81514	8x15	G 1/4"	39,0
1163TR81714	8x17	G 1/4"	41,0
1163TR101514	10x15	G 1/4"	45,0
1163TR101714	10x17	G 1/4"	48,0
1163TR101914	10x19	G 1/4"	48,0
1163TR61038	6x10	G 3/8"	39,0
1163TR61238	6x12	G 3/8"	36,0
1163TR61338	6x13	G 3/8"	40,0
1163TR61438	6x14	G 3/8"	40,0
1163TR71638	7x16	G 3/8"	44,0
1163TR81238	8x12	G 3/8"	41,0
1163TR81338	8x13	G 3/8"	42,0
1163TR81538	8x15	G 3/8"	45,0
1163TR81738	8x17	G 3/8"	47,0
1163TR101538	10x15	G 3/8"	51,0
1163TR101738	10x17	G 3/8"	54,0
1163TR101938	10x19	G 3/8"	54,0
1163TR111638	11x16	G 3/8"	57,0

**1166**

## Swivel male connector BSPP thread with O-ring &amp; rubber and PU hose connector



CODE	Ø TUBE	THREAD
1166TR61014	6x10	G 1/4"
1166TR61214	6x12	G 1/4"
1166TR61314	6x13	G 1/4"
1166TR61414	6x14	G 1/4"
1166TR81214	8x12	G 1/4"
1166TR81314	8x13	G 1/4"
1166TR81514	8x15	G 1/4"
1166TR81714	8x17	G 1/4"



## 1164

## Female connector BSPP thread with rubber and PU hose connector



CODE	Ø TUBE	THREAD	g
1164TR61014	6x10	G 1/4"	30,0
1164TR61214	6x12	G 1/4"	30,0
1164TR61314	6x13	G 1/4"	37,0
1164TR61414	6x14	G 1/4"	35,0
1164TR71614	7x16	G 1/4"	40,0
1164TR81214	8x12	G 1/4"	32,0
1164TR81314	8x13	G 1/4"	32,0
1164TR81514	8x15	G 1/4"	35,0
1164TR81714	8x17	G 1/4"	34,0
1164TR101514	10x15	G 1/4"	38,0
1164TR101714	10x17	G 1/4"	37,0
1164TR101914	10x19	G 1/4"	39,0
1164TR61038	6x10	G 3/8"	36,0
1164TR61238	6x12	G 3/8"	36,0
1164TR61338	6x13	G 3/8"	43,0
1164TR61438	6x14	G 3/8"	41,0
1164TR71638	7x16	G 3/8"	46,0
1164TR81238	8x12	G 3/8"	38,0
1164TR81338	8x13	G 3/8"	38,0
1164TR81538	8x15	G 3/8"	41,0
1164TR81738	8x17	G 3/8"	40,0
1164TR101538	10x15	G 3/8"	44,0
1164TR101738	10x17	G 3/8"	43,0
1164TR101938	10x19	G 3/8"	45,0

## 1292

## Large male connector BSPP thread with rubber and PU hose connector



CODE	Ø TUBE	THREAD	WRENCH	TOT. LENGHT	g
1292TR101938	10x19	G 3/8"	24	65,0	113,0
1292TR102038	10x20	G 3/8"	24	65,0	114,0
1292TR102138	10x21	G 3/8"	24	65,0	114,0
1292TR102238	10x22	G 3/8"	24	65,0	118,0
1292TR102338	10x23	G 3/8"	27	65,0	120,0
1292TR131938	13x19	G 3/8"	25	65,0	115,0
1292TR132038	13x20	G 3/8"	25	65,0	117,0
1292TR132138	13x21	G 3/8"	25	65,0	117,0
1292TR132338	13x23	G 3/8"	27	65,0	124,0
1292TR132438	13x24	G 3/8"	30	65,0	151,0
1292TR132538	13x25	G 3/8"	30	65,0	149,0
1292TR101912	10x19	G 1/2"	24	65,0	113,0
1292TR102012	10x20	G 1/2"	24	65,0	115,0
1292TR102112	10x21	G 1/2"	24	65,0	115,0
1292TR102212	10x22	G 1/2"	24	65,0	119,0
1292TR102312	10x23	G 1/2"	27	65,0	121,0
1292TR131912	13x19	G 1/2"	25	65,0	117,0
1292TR132012	13x20	G 1/2"	25	65,0	118,0
1292TR132112	13x21	G 1/2"	25	65,0	118,0
1292TR132312	13x23	G 1/2"	27	65,0	124,0
1292TR132412	13x24	G 1/2"	30	65,0	151,0
1292TR132512	13x25	G 1/2"	30	65,0	151,0



**1278**

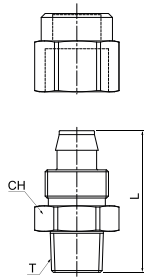
## Sliding tap bayonet joint with rubber hose connector



CODE	Ø TUBE	g
1278TR612	6x12	93,0
1278TR614	6x14	91,0
1278TR817	8x17	100,0
1278TR1019	10x19	112,0

**1295**

## Male barb connector BSPT thread



CODE	Ø TUBE	T	L	CH
1295TR14128	8x12	R 1/4"	36,2	19
1295TR381510	10x15	R 3/8"	42,0	22

1295: Recommended for use with PU-PVC tube on page 751







**STANDARD  
FITTINGS  
NYLON**



**PLUS**

**GOOD MECHANICAL RESISTANCE**

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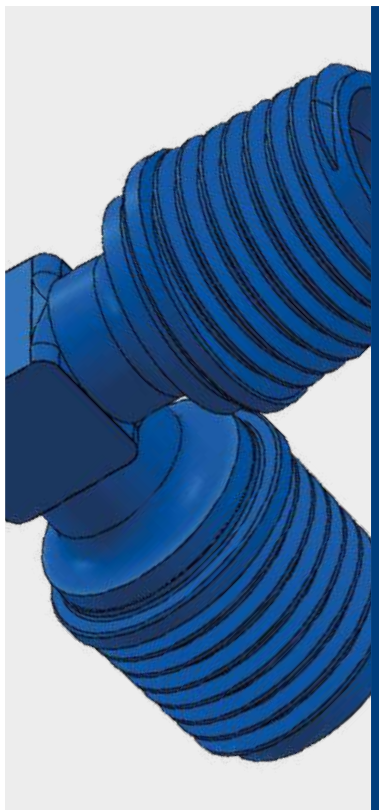
**SUITABLE FOR DOMESTIC AND  
INDUSTRIAL USE AND FOR FOOD  
FLUIDS**

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**WIDE RANGE OF SHAPES AND  
THREADS AVAILABLE**



p. 292 / **1800**p. 292 / **1802**p. 292 / **1810**p. 292 / **1812**p. 293 / **1820**p. 293 / **1825**p. 293 / **1827**p. 294 / **1830**p. 294 / **1832**p. 294 / **1834**p. 294 / **1840**p. 295 / **1850**p. 295 / **1855**p. 295 / **1875**p. 296 / **1800N**p. 296 / **1802N**p. 296 / **1810N**p. 296 / **1812N**p. 297 / **1820N**p. 297 / **1825N**p. 297 / **1827N**p. 298 / **1830N**p. 298 / **1832N**p. 298 / **1840N**p. 298 / **1850N**



-20°C ÷ +110°C  
Subject to applications



**Working pressure:**  
14 Bar (at 20°C)  
Depending on the tube used



Compressed air, water and fluids suitable with construction materials



- Taper gas BSPT ISO 7  
from R1/8" to R3/4"  
- NPT  
from N1/8" to N3/4"



Body: Nylon 66

### FEATURES

The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.



Food contact materials  
EC 1935/2004



D.M. 174/2004

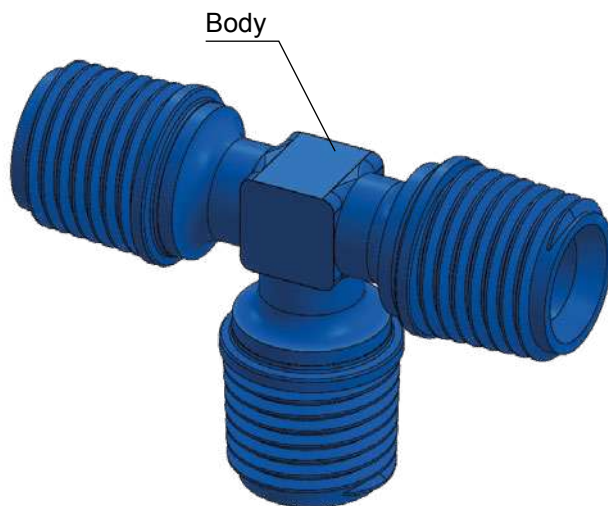


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

### CONSTRUCTION DETAILS



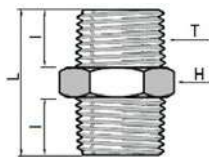
### TIGHTENING TORQUE TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"	3/4"
Nm	0,1	0,8	4	6	8



## 1800

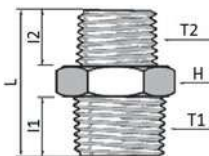
## Nipple BSPT thread



CODE	T	L	I	H	g
1800TR18	R 1/8"	23,2	8,0	11	1,4
1800TR14	R 1/4"	27,1	10,0	14	3,5
1800TR38	R 3/8"	28,2	10,0	17	4,2
1800TR12	R 1/2"	34,1	12,5	22	8,0
1800TR34	R 3/4"	36,0	-	27	-

## 1802

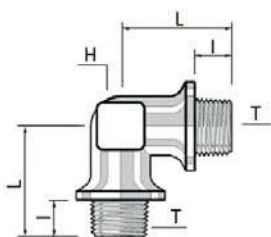
## Reduced nipple BSPT thread



CODE	T1	T2	I1	I2	L	H	g
1802TR1418	R 1/4"	R 1/8"	10,5	8,5	25,2	14	2,5
1802TR3818	R 3/8"	R 1/8"	10,0	8,0	27,1	17	3,8
1802TR3814	R 3/8"	R 1/4"	10,0	10,0	28,5	17	4,1
1802TR1214	R 1/2"	R 1/4"	13,0	10,5	31,5	22	6,7
1802TR1238	R 1/2"	R 3/8"	13,0	10,5	31,5	22	6,0
1802TR3412	R 3/4"	R 1/2"	-	-	34,5	27	-

## 1810

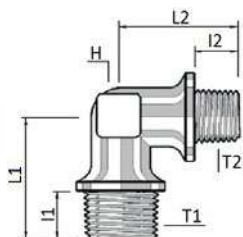
## Male elbow BSPT thread



CODE	T	I	L	H	g
1810TR18	R 1/8"	8,0	20,0	10	3,0
1810TR14	R 1/4"	10,0	22,0	10	4,0
1810TR38	R 3/8"	10,0	24,0	14	7,0
1810TR12	R 1/2"	12,5	32,0	17	15,0

## 1812

## Reduced male elbow BSPT thread

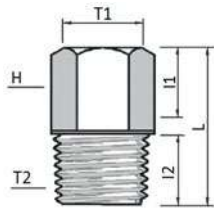


CODE	T1	T2	I1	I2	L1	L2	H	g
1812TR1418	R 1/4"	R 1/8"	10,0	8,0	22,0	20,0	12	3,6
1812TR3814	R 3/8"	R 1/4"	10,0	10,0	24,0	24,0	15	6,5
1812TR1238	R 1/2"	R 3/8"	12,5	10,0	32,0	29,5	17	13,0



**1820**

Adapter M/F BSPT thread



CODE	T1	T2	I1	I2	L	H	g
1820TR1818	R 1/8"	R 1/8"	9,0	8,0	23,0	14	1,0
1820TR1414	R 1/4"	R 1/4"	10,5	10,0	24,0	17	3,0
1820TR3838	R 3/8"	R 3/8"	11,0	10,5	25,7	22	5,3
1820TR1212	R 1/2"	R 1/2"	13,5	13,0	30,6	26	9,0

REDUCED ADAPTER M/F BSPT THREAD

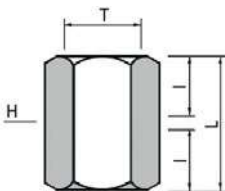
1820TR1814	R 1/8"	R 1/4"	10,5	10,0	23,0	14	2,4
1820TR1838	R 1/8"	R 3/8"	9,0	10,0	24,0	14	2,7
1820TR1812	R 1/8"	R 1/2"	9,0	12,0	27,0	14	4,1
1820TR1438	R 1/4"	R 3/8"	10,5	10,0	24,8	17	5,0
1820TR1412	R 1/4"	R 1/2"	10,5	10,0	27,2	17	4,8
1820TR3812	R 3/8"	R 1/2"	11,0	13,0	28,2	22	8,0

ENLARGER ADAPTER M/F BSPT THREAD

1820TR1418	R 1/4"	R 1/8"	10,5	8,0	22,1	17	2,8
1820TR3818	R 3/8"	R 1/8"	11,0	8,0	23,1	22	4,8
1820TR3814	R 3/8"	R 1/4"	11,0	10,0	25,2	22	5,1
1820TR1218	R 1/2"	R 1/8"	13,5	8,0	25,6	26	7,0
1820TR1214	R 1/2"	R 1/4"	13,5	10,0	27,3	26	7,2
1820TR1238	R 1/2"	R 3/8"	13,5	10,0	28,0	26	8,0

**1825**

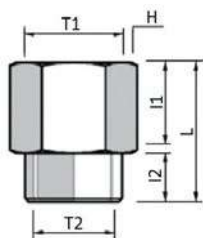
Female sleeve BSPT thread



CODE	T	I	L	H	g
1825TR18	R 1/8"	9,0	20,0	14	2,3
1825TR14	R 1/4"	11,0	23,6	17	3,7
1825TR38	R 3/8"	11,0	24,5	21	5,2
1825TR12	R 1/2"	13,5	29,7	26	9,6
1825TR34	R 3/4"	18,0	38,0	34	16,8

**1827**

Reduced female sleeve BSPT thread

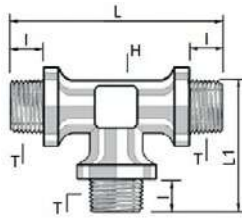


CODE	T1	T2	I1	I2	L	H	g
1827TR1418	R 1/4"	R 1/8"	11,0	9,0	22,0	17	3,2
1827TR3818	R 3/8"	R 1/8"	11,0	9,0	24,5	21	5,2
1827TR3814	R 3/8"	R 1/4"	11,0	11,0	24,5	21	6,0
1827TR1214	R 1/2"	R 1/4"	13,5	11,0	27,0	26	8,0
1827TR1238	R 1/2"	R 3/8"	13,5	11,0	27,0	26	7,7
1827TR3414	R 3/4"	R 1/4"	13,5	11,0	30,1	34	11,0
1827TR3412	R 3/4"	R 1/2"	13,5	11,0	35,0	34	14,5



## 1830

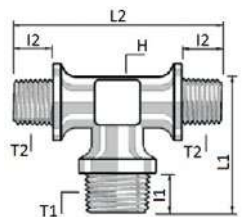
## Male tee BSPT thread



CODE	T	I	L	L1	H	g
1830TR18	R 1/8"	8,0	39,8	24,1	12	4,0
1830TR14	R 1/4"	10,0	44,0	26,2	12	5,0
1830TR38	R 3/8"	10,0	50,5	32,0	15	10,0
1830TR12	R 1/2"	12,5	64,0	40,3	17	22,0

## 1832

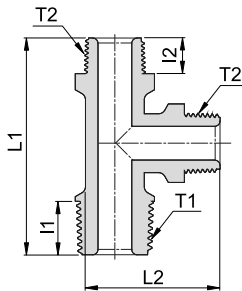
## Reduced male tee BSPT thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1832TR1814	R 1/8"	R 1/4"	8,0	10,0	26,4	39,7	12	4,4
1832TR1438	R 1/4"	R 3/8"	10,0	10,0	38,2	43,3	15	9,3
1832TR3812	R 3/8"	R 1/2"	10,0	12,5	40,4	60,2	17	17,3
ENLARGER MALE TEE BSPT THREAD								
1832TR1418	R 1/4"	R 1/8"	10,0	8,0	24,2	43,3	12	5,6
1832TR3814	R 3/8"	R 1/4"	10,0	10,0	26,4	60,2	15	9,7
1832TR1238	R 1/2"	R 3/8"	12,5	10,0	38,2	64,2	17	17,0

## 1834

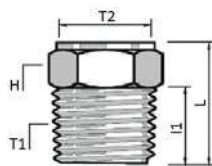
## Lateral reduced male tee BSPT thread



CODE	T1	T2	I1	I2	L1	L2	g
1834TR1814	R 1/8"	R 1/4"	8,0	10,0	42,7	25,5	5,0
1834TR1438	R 1/4"	R 3/8"	10,0	10,0	48,5	31,0	9,5
1834TR3812	R 3/8"	R 1/2"	10,0	12,5	62,0	38,2	19,0
LATERAL ENLARGER MALE TEE BSPT THREAD							
1834TR1418	R 1/4"	R 1/8"	10,0	8,0	41,8	26,3	4,9
1834TR3814	R 3/8"	R 1/4"	10,0	10,0	48,3	30,8	8,8
1834TR1238	R 1/2"	R 3/8"	12,5	10,0	62,0	40,0	17,9

## 1840

## M/F reducer BSPT thread

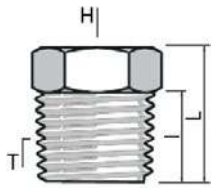


CODE	T1	T2	I1	L	H	g
1840TR1418	R 1/4"	R 1/8"	10,0	17,2	14	1,5
1840TR3818	R 3/8"	R 1/8"	10,5	17,8	17	2,7
1840TR3814	R 3/8"	R 1/4"	10,5	17,8	17	2,1
1840TR1218	R 1/2"	R 1/8"	12,5	20,7	22	6,0
1840TR1214	R 1/2"	R 1/4"	12,5	20,4	22	5,5
1840TR1238	R 1/2"	R 3/8"	12,5	20,7	22	3,8
1840TR3414	R 3/4"	R 1/4"	13,5	22,0	27	8,9
1840TR3438	R 3/4"	R 3/8"	13,5	22,2	27	8,1
1840TR3412	R 3/4"	R 1/2"	13,5	22,4	27	7,0



## 1850

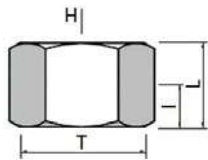
## Male plug BSPT thread



CODE	T	I	L	H	g
1850TR18	R 1/8"	9,0	13,6	11	1,0
1850TR14	R 1/4"	10,5	16,6	14	2,0
1850TR38	R 3/8"	10,5	16,1	17	3,0
1850TR12	R 1/2"	12,5	19,6	22	5,0
1850TR34	R 3/4"	15,0	22,0	27	8,0
1850TR1	R 1"	20,0	27,0	36	-

## 1855

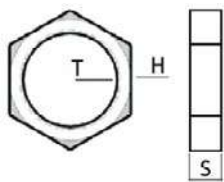
## Female plug BSPT thread



CODE	T	I	L	H	g
1855TR18	R 1/8"	9,0	10,4	13	1,1
1855TR14	R 1/4"	10,0	14,2	17	1,2
1855TR38	R 3/8"	11,0	14,2	20	2,7
1855TR12	R 1/2"	13,5	17,1	24	4,3
1855TR34	R 3/4"	14,0	17,1	30	6,2

## 1875

## Nut BSPT thread

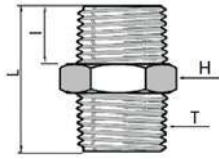


CODE	T	S	H	g	COLOURS
1875TR14	G 1/4"	5,0	17	1,1	BLACK
1875TR12	G 1/2"	11,6	26	1,2	BLUE



**1800N**

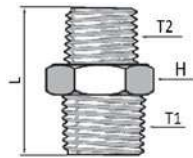
Nipple NPT thread



CODE	T	I	H	g
1800TRN18	N 1/8"	11	23,9	1,4
1800TRN14	N 1/4"	14	32,7	2,79
1800TRN38	N 3/8"	17	34,4	4,85
1800TRN12	N 1/2"	22	43,3	8,75
1800TRN34	N 3/4"	27	44,4	12,44

**1802N**

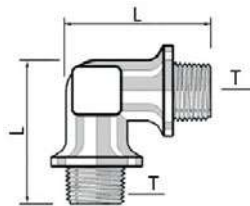
Reduced nipple NPT thread



CODE	T1	T2	H	L	g
1802TRN1418	N 1/4"	N 1/8"	14	28,4	2,3
1802TRN3818	N 3/8"	N 1/8"	17	29,6	3,8
1802TRN1218	N 1/2"	N 1/8"	22	34,9	6,4
1802TRN3418	N 3/4"	N 1/8"	27	35,4	9,1
1802TRN3814	N 3/8"	N 1/4"	17	33,4	4,17
1802TRN1214	N 1/2"	N 1/4"	22	38,7	6,9
1802TRN3414	N 3/4"	N 1/4"	27	39,4	9,5
1802TRN1238	N 1/2"	N 3/8"	22	39,1	7,6
1802TRN3438	N 3/4"	N 3/8"	27	39,6	10,2
1802TRN3412	N 3/4"	N 1/2"	27	44,1	11,4

**1810N**

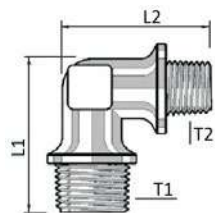
Male elbow NPT thread



CODE	T	L	g
1810TRN18	N 1/8"	23,8	2,2
1810TRN14	N 1/4"	28,4	3,3

**1812N**

Reduced male elbow NPT thread



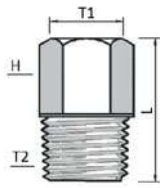
CODE	T1	T2	L1	L2	g
1812TRN1418	N 1/4"	N 1/8"	28,4	24,0	2,9





**1820N**

## M/F adapter NPT thread



CODE	T1	T2	H	L	g
1820TRN1818	N 1/8"	N 1/8"	14	23,4	2,2
1820TRN1414	N 1/4"	N 1/4"	17	30,7	3,8
1820TRN3838	N 3/8"	N 3/8"	22	30,4	5,95
1820TRN1212	N 1/2"	N 1/2"	26	39,0	5,77

## REDUCED M/F ADAPTER NPT THREAD

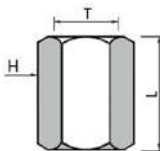
1820TRN1814	N 1/8"	N 1/4"	14	23,4	2,55
1820TRN1838	N 1/8"	N 3/8"	14	27,4	3,13
1820TRN1812	N 1/8"	N 1/2"	14	32,5	4,66
1820TRN1438	N 1/4"	N 3/8"	17	30,5	4,23
1820TRN1412	N 1/4"	N 1/2"	17	35,5	5,8
1820TRN3812	N 3/8"	N 1/2"	22	35,5	7,66

## ENLARGER M/F ADAPTER NPT THREAD

1820TRN1418	N 1/4"	N 1/8"	17	26,5	3,17
1820TRN3818	N 3/8"	N 1/8"	22	26,3	5,06
1820TRN3814	N 3/8"	N 1/4"	22	26,5	5,68
1820TRN1218	N 1/2"	N 1/8"	26	30,0	7,73
1820TRN1214	N 1/2"	N 1/4"	26	34,0	8,04
1820TRN1238	N 1/2"	N 3/8"	26	36,6	8,66

**1825N**

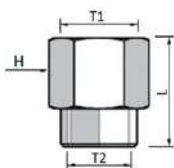
## Female sleeve NPT thread



CODE	T	H	L	g
1825TRN18	N 1/8"	14	19,7	2,3
1825TRN14	N 1/4"	17	23,5	3,7
1825TRN38	N 3/8"	22	24,6	5,2
1825TRN12	N 1/2"	27	29,5	9,7

**1827N**

## Reduced female sleeve NPT thread

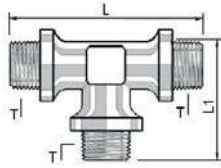


CODE	T1	T2	H	L	g
1827TRN1418	N 1/4"	N 1/8"	17	22,0	3,2
1827TRN3818	N 3/8"	N 1/8"	22	24,4	4,9
1827TRN3814	N 3/8"	N 1/4"	22	24,8	4,83
1827TRN1214	N 1/2"	N 1/4"	26	27,0	7,4
1827TRN1238	N 1/2"	N 3/8"	26	26,8	7,8



**1830N**

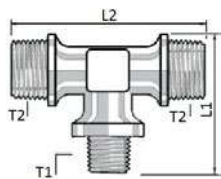
Male tee NPT thread



CODE	T	L	L1	g
1830TRN18	N 1/8"	39,3	24,0	3,2
1830TRN14	N 1/4"	48,4	28,5	4,8

**1832N**

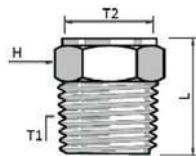
Reduced male tee NPT thread



CODE	T1	T2	L1	L2	g
1832TRN1418	N 1/8"	N 1/4"	48,4	24,0	4,2

**1840N**

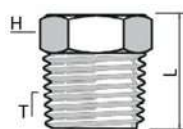
M/F reduced NPT thread



CODE	T1	T2	H	L	g
1840TRN1418	N 1/4"	N 1/8"	15	21,0	1,78
1840TRN3818	N 3/8"	N 1/8"	18	20,8	3,3
1840TRN3814	N 3/8"	N 1/4"	19	20,8	2,4
1840TRN1218	N 1/2"	N 1/8"	24	27,2	6,98
1840TRN1214	N 1/2"	N 1/4"	19	27,1	6,65
1840TRN1238	N 1/2"	N 3/8"	29	27,2	5,55
1840TRN3414	N 3/4"	N 1/4"	29	27,0	10,44
1840TRN3438	N 3/4"	N 3/8"	29	27,2	9,85
1840TRN3412	N 3/4"	N 1/2"	29	27,3	7,9

**1850N**

Male plug NPT thread



CODE	T	H	L	g
1850TRN18	N 1/8"	11	14,7	1,1
1850TRN14	N 1/4"	14	19,4	2
1850TRN38	N 3/8"	17	20,4	3,3
1850TRN12	N 1/2"	22	25,6	6
1850TRN34	N 3/4"	27	26,0	8,7



**STANDARD  
FITTINGS  
PVDF**



**PLUS**

**RESISTANT TO CONTACT WITH  
CHEMICALS AND CAN BE USED IN  
THE FOOD SECTOR**

---

**EXTREMELY SIMPLE TO USE  
FOLLOWING TECHNICAL  
INFORMATION**

---

**ENVIRONMENTALLY FRIENDLY AND  
NON-TOXIC**

---

**RESISTANT TO COSTANT HIGH LEVEL  
TEMPERATURES**

---

**OPTIMISATION OF INTERNAL STEPS  
WHICH GUARANTEES FULL FLUID  
PASSAGE**





p. 302 / **1900**



p. 302 / **1902**



p. 302 / **1910**



p. 302 / **1912**



p. 303 / **1920**



p. 303 / **1925**



p. 303 / **1927**



p. 304 / **1930**



p. 304 / **1932**



p. 304 / **1934**



p. 304 / **1940**

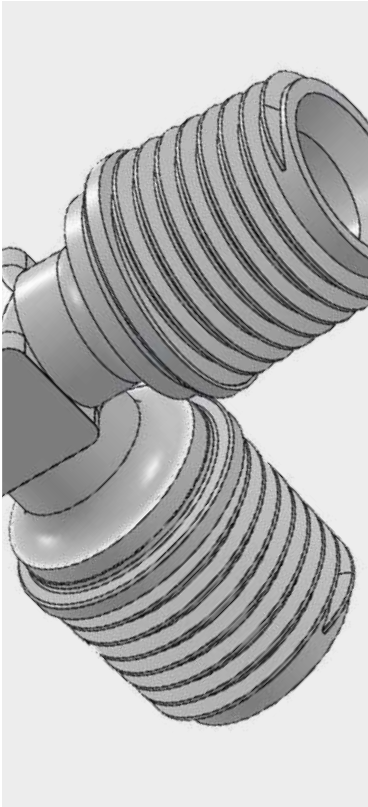


p. 305 / **1950**



p. 305 / **1955**





-20°C ÷ +120°C  
Subject to applications



**Working pressure:**  
14 Bar (at 20°C)  
Depending on the tube used



Compressed air, water and fluids suitable with construction materials



Taper gas BSPT ISO 7  
from R1/8" to R1"



**Body:** Polyvinylidene fluoride (PVDF)

**FEATURES**

The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.

**AVAILABILITY:**

Available on request with NPT threads



Food contact materials  
EC 1935/2004



D.M. 174/2004



NSF 61 / NSF 372  
NSF certificate on behalf of Tefen Flow and Dosing Technologies Ltd.

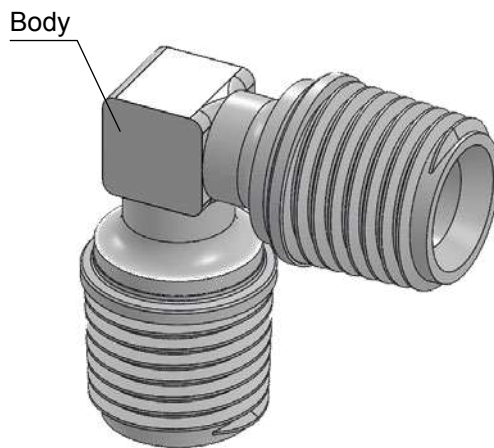


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**CINSTRUCTION DETAILS**



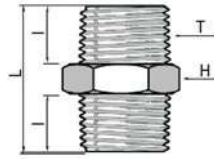
**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	1/8"	1/2"	3/4"	1"
Nm	0,1	1	5	8	16	26



**1900**

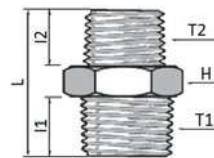
Nipple BSPT thread



CODE	T	L	I	H	g
1900TR18	R 1/8"	23,2	8,0	11	1,4
1900TR14	R 1/4"	27,1	10,0	14	3,5
1900TR38	R 3/8"	28,2	10,0	17	4,2
1900TR12	R 1/2"	34,1	12,5	22	8,0

**1902**

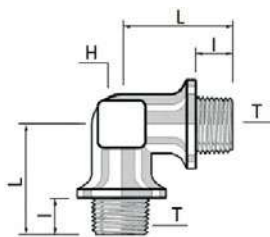
Reduced nipple BSPT thread



CODE	T1	T2	I1	I2	L	H	g
1902TR1418	R 1/4"	R 1/8"	10,5	8,5	25,2	14	2,5
1902TR3818	R 3/8"	R 1/8"	10,0	8,0	27,1	17	3,8
1902TR3814	R 3/8"	R 1/4"	10,0	10,0	28,5	17	4,1
1902TR1218	R 1/2"	R 1/8"	13,0	12,0	29,3	22	6,1
1902TR1214	R 1/2"	R 1/4"	13,0	10,5	31,5	22	6,7
1902TR1238	R 1/2"	R 3/8"	13,0	10,5	31,5	22	6,0
1902TR3412	R 3/4"	R 1/2"	13,5	13,0	34,5	27	7,5

**1910**

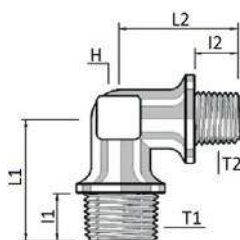
Male elbow BSPT thread



CODE	T	I	L	H	g
1910TR18	R 1/8"	8,0	20,0	10	3,0
1910TR14	R 1/4"	10,0	22,0	10	4,0
1910TR38	R 3/8"	10,0	24,0	14	7,0
1910TR12	R 1/2"	12,5	32,0	17	15,0

**1912**

Reduced male elbow BSPT thread

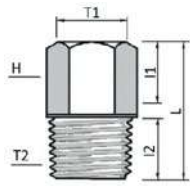


CODE	T1	T2	I1	I2	L1	L2	H	g
1912TR1418	R 1/4"	R 1/8"	10,0	8,0	22,0	20,0	12	3,6
1912TR3814	R 3/8"	R 1/4"	10,0	10,0	24,0	24,0	15	6,5
1912TR1238	R 1/2"	R 3/8"	12,5	10,0	32,0	29,5	17	13,0



## 1920

## Adapter M/F BSPT thread



CODE	T1	T2	I1	I2	L	H	g
1920TR1818	R 1/8"	R 1/8"	9,0	8,0	23,0	14	1,0
1920TR1414	R 1/4"	R 1/4"	10,5	10,0	24,0	17	3,0
1920TR3838	R 3/8"	R 3/8"	11,0	10,5	26,0	22	5,3
1920TR1212	R 1/2"	R 1/2"	13,5	13,0	30,5	26	9,0

## REDUCED ADAPTER M/F BSPT THREAD

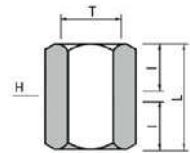
1920TR1814	R 1/8"	R 1/4"	10,5	10,0	23,0	14	2,4
1920TR1838	R 1/8"	R 3/8"	9,0	10,0	24,0	14	2,7
1920TR1812	R 1/8"	R 1/2"	9,0	12,0	27,0	14	4,1
1920TR1438	R 1/4"	R 3/8"	10,5	10,0	25,0	17	5,0
1920TR1412	R 1/4"	R 1/2"	10,5	10,0	27,0	17	4,8
1920TR3812	R 3/8"	R 1/2"	11,0	13,0	28,0	22	8,0

## ENLARGER ADAPTER M/F BSPT THREAD

1920TR1418	R 1/4"	R 1/8"	10,5	8,0	22,0	17	2,8
1920TR3818	R 3/8"	R 1/8"	11,0	8,0	23,0	22	4,8
1920TR3814	R 3/8"	R 1/4"	11,0	10,0	25,0	22	5,1
1920TR1218	R 1/2"	R 1/8"	13,5	8,0	25,5	26	7,0
1920TR1214	R 1/2"	R 1/4"	13,5	10,0	27,0	26	7,2
1920TR1238	R 1/2"	R 3/8"	13,5	10,0	28,0	26	8,0

## 1925

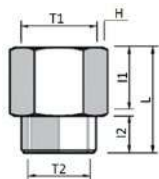
## Sleeve F/F BSPT thread



CODE	T	I	L	H	g
1925TR18	R 1/8"	9,0	20,0	14	2,3
1925TR14	R 1/4"	11,0	23,6	17	3,7
1925TR38	R 3/8"	11,0	24,5	21	5,2
1925TR12	R 1/2"	13,5	29,7	26	9,6
1925TR34	R 3/4"	18,0	38,0	34	16,8

## 1927

## Reduced sleeve F/F BSPT thread

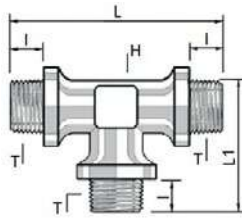


CODE	T1	T2	I1	I2	L	H	g
1927TR1418	R 1/4"	R 1/8"	11,0	9,0	22,0	17	3,2
1927TR3818	R 3/8"	R 1/8"	11,0	9,0	24,5	21	5,2
1927TR3814	R 3/8"	R 1/4"	11,0	11,0	24,5	21	6,0
1927TR1214	R 1/2"	R 1/4"	13,5	11,0	27,0	26	8,0
1927TR1238	R 1/2"	R 3/8"	13,5	11,0	27,0	26	7,7
1927TR3414	R 3/4"	R 1/4"	13,5	11,0	34,0	35	11,0
1927TR3412	R 3/4"	R 1/2"	13,5	11,0	34,0	35	14,5



## 1930

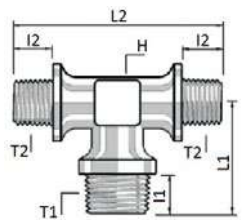
## Male tee BSPT thread



CODE	T	I	L	L1	H	g
1930TR18	R 1/8"	8,0	39,8	24,1	12	4,0
1930TR14	R 1/4"	10,0	44,0	26,2	12	5,0
1930TR38	R 3/8"	10,0	50,5	32,0	15	10,0
1930TR12	R 1/2"	12,5	64,0	40,3	17	22,0

## 1932

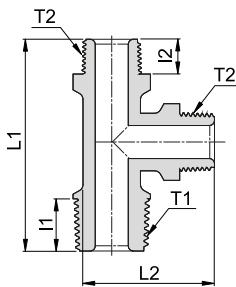
## Reduced male tee BSPT thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1932TR1814	R 1/8"	R 1/4"	8,0	10,0	20,0	39,7	12	4,4
1932TR1438	R 1/4"	R 3/8"	10,0	10,0	25,0	38,2	15	9,3
1932TR3812	R 3/8"	R 1/2"	10,0	12,5	29,5	60,2	17	17,3
ENLARGER MALE TEE BSPT THREAD								
1932TR1418	R 1/4"	R 1/8"	10,0	8,0	22,0	43,3	12	5,6
1932TR3814	R 3/8"	R 1/4"	10,0	10,0	25,0	60,2	15	9,7
1932TR1238	R 1/2"	R 3/8"	12,5	10,0	32,0	64,2	17	17,0

## 1934

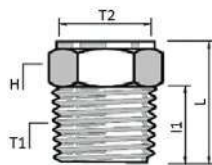
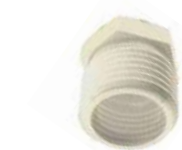
## Lateral reduced male tee BSPT thread



CODE	T1	T2	I1	I2	L1	L2	H	g
1934TR1814	R 1/8"	R 1/4"	8,0	10,0	42,7	25,5	12	5,0
1934TR1438	R 1/4"	R 3/8"	10,0	10,0	48,5	31,0	15	9,5
1934TR3812	R 3/8"	R 1/2"	10,0	12,5	62,0	38,2	17	19,0
LATERAL ENLARGER MALE TEE BSPT THREAD								
1934TR1418	R 1/4"	R 1/8"	10,0	8,0	41,8	26,3	12	4,9
1934TR3814	R 3/8"	R 1/4"	10,0	10,0	48,3	30,8	15	8,8
1934TR1238	R 1/2"	R 3/8"	12,5	10,0	62,0	40,0	17	17,9

## 1940

## M/F reduced BSPT thread



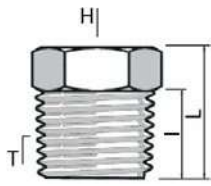
CODE	T1	T2	I1	L	H	g
1940TR1418	R 1/4"	R 1/8"	10,0	17,2	14	1,5
1940TR3818	R 3/8"	R 1/8"	10,5	17,8	17	2,7
1940TR3814	R 3/8"	R 1/4"	10,5	17,8	17	2,1
1940TR1218	R 1/2"	R 1/8"	12,5	20,7	22	6,0
1940TR1214	R 1/2"	R 1/4"	12,5	20,4	22	5,0
1940TR1238	R 1/2"	R 3/8"	12,5	20,7	22	3,8
1940TR3414	R 3/4"	R 1/4"	13,5	22,0	27	8,9
1940TR3438	R 3/4"	R 3/8"	13,5	22,2	27	8,1
1940TR3412	R 3/4"	R 1/2"	13,5	22,4	27	7,0





## 1950

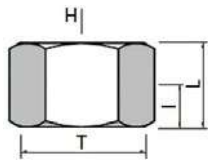
## Male plug BSPT thread



CODE	T	I	L	H	g
1950TR18	R 1/8"	9,0	13,6	12	1,0
1950TR14	R 1/4"	10,5	16,6	15	2,0
1950TR38	R 3/8"	10,5	16,1	18	3,0
1950TR12	R 1/2"	12,5	19,6	22	5,0
1950TR34	R 3/4"	15,0	22,0	27	8,0
1950TR1	R 1"	20,0	27,0	36	9,5

## 1955

## Female plug BSPT thread



CODE	T	I	L	H	g
1955TR18	R 1/8"	9,0	10,4	13	1,1
1955TR14	R 1/4"	10,0	14,2	17	1,2
1955TR38	R 3/8"	11,0	14,2	20	2,7
1955TR12	R 1/2"	13,5	17,1	24	4,3
1955TR34	R 3/4"	14,0	17,1	30	6,2





**STANDARD  
FITTINGS**  
STAINLESS STEEL  
AISI 316



**PLUS**

**USABLE WITH DIFFERENT  
FLUIDS AND IN AGGRESSIVE  
ENVIRONMENTS**

**DESIGNED FOR HEAVY DUTY USE  
THANKS TO THEIR STURDINESS**

**SUITABLE FOR FOOD CONTACT**





p. 310 / **1410**



p. 310 / **1412**



p. 310 / **1420**



p. 311 / **1425**



p. 311 / **1426**



p. 311 / **1430**



p. 312 / **1440**



p. 312 / **1461**



p. 314 / **P-SL**



p. 314 / **P-SSL**



p. 314 / **P-ST**



p. 314 / **P-SBT**



p. 315 / **P-SHN**

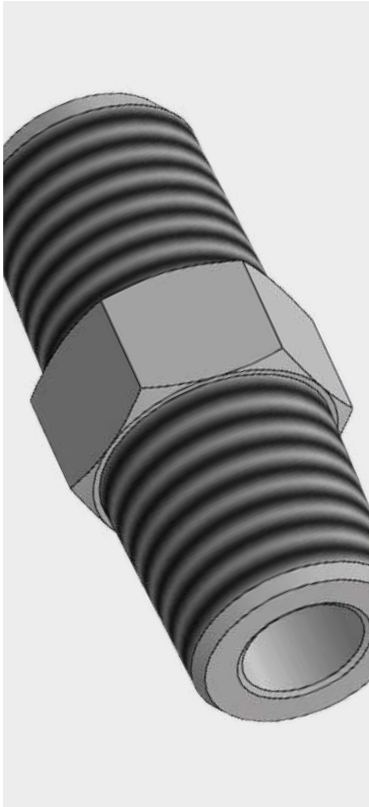


p. 315 / **P-MFAA**



p. 315 / **1449**





-20°C ÷ +180°C



Working pressure:  
150 Bar



Compressed air, potable  
water and fluids suitable with  
construction materials



- Taper gas BSPT ISO 7  
from R1/8" to R3/4"  
- Parallel gas BSPP ISO 228  
from G1/8" to G3/4"



Body: Stainless steel AISI 316



Food contact materials  
EC 1935/2004



D.M. 174/2004

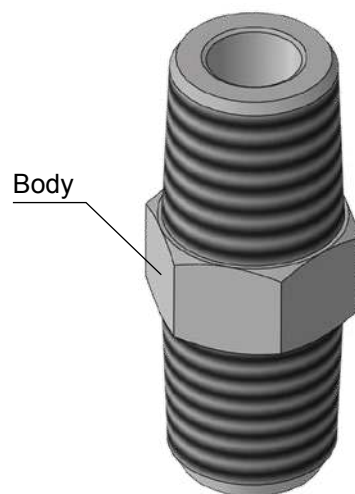


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS

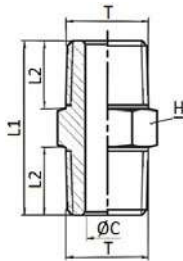


Body



## 1410

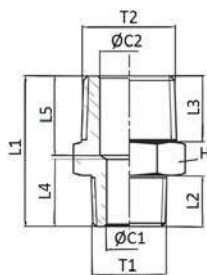
## Nipple BSPT thread



CODE	T	ØC	L1	L2	H	g
1410TR18	R 1/8"	5	24	9,0	12	11,3
1410TR14	R 1/4"	7	27	10,5	14	19,6
1410TR38	R 3/8"	10	30	11,5	17	29,9
1410TR12	R 1/2"	13	38	15,0	22	58,0
1410TR34	R 3/4"	18	46	18,0	27	95,4

## 1412

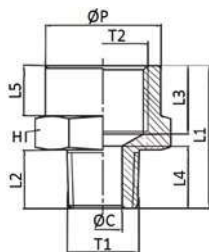
## Reduced nipple BSPT thread



CODE	T1	T2	ØC1	ØC2	L1	L2	L3	L4	L5	H	g
1412TR1814	R 1/8"	R 1/4"	7	5	25,5	10,5	9,0	15,0	9,9	14	15,9
1412TR1438	R 1/4"	R 3/8"	7	10	29,0	10,5	11,5	13,10	15,0	17	26,6
1412TR1412	R 1/4"	R 1/2"	7	13	33,0	10,5	15,0	13,27	18,0	22	45,3
1412TR3812	R 3/8"	R 1/2"	10	13	34,0	11,5	15,0	15,10	18,0	22	48,5
1412TR1234	R 1/2"	R 3/4"	13	18	43,0	15,0	18,0	19,60	22,0	27	87,1

## 1420

## Enlarger male BSPT thread &amp; female BSPP thread

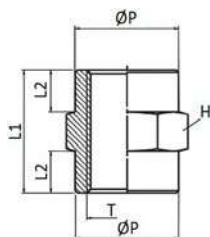


CODE	T1	T2	ØC	ØP	L1	L2	L3	L4	L5	H	g
1420TR1814	R 1/8"	G 1/4"	5	16,5	22	8	11,0	9,1	8,0	17	16,2
1420TR1438	R 1/4"	G 3/8"	7	21,5	27,0	11	13,0	11,7	9,5	22	33,2
1420TR3812	R 3/8"	G 1/2"	10	26,5	30,0	11	15,0	12,4	11,5	27	54,6



## 1425

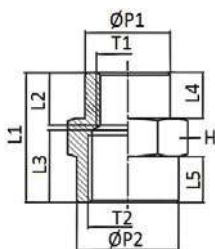
## Female sleeve BSPP thread



CODE	T	ØP	L1	L2	H	g
1425TR18	G 1/8"	13,0	15	5,0	14	8,9
1425TR14	G 1/4"	16,5	22	7,5	17	17,4
1425TR38	G 3/8"	21,5	25	8,5	22	34,4
1425TR12	G 1/2"	26,5	32	11,0	27	64,4
1425TR34	G 3/4"	31,5	34	12,0	32	79,3

## 1426

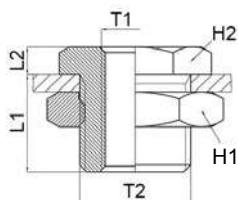
## Reduced female sleeve BSPP thread



CODE	T1	T2	ØP1	ØP2	L1	L2	L3	L4	L5	H	g
1426TR1814	G 1/8"	G 1/4"	13,5	16,5	23,0	9,1	13	7,0	9,0	17	18,4
1426TR1438	G 1/4"	G 3/8"	18,0	21,5	27,0	11,0	15	9,5	9,5	22	36,2
1426TR1412	G 1/4"	G 1/2"	18,0	26,5	30,0	10,8	17	9,5	10,5	27	56,8
1426TR3812	G 3/8"	G 1/2"	21,5	26,5	30,0	11,8	17	8,0	13,0	27	61,6
1426TR1234	G 1/2"	G 3/4"	26,5	31,5	36,0	14,6	20	11,0	15,0	32	88,3

## 1430

## Bulkhead BSPP thread

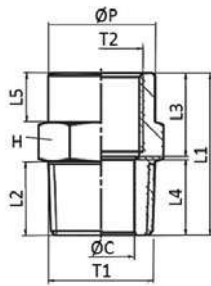


CODE	T1	T2	L1	L2	H1	H2	g
1430TR14M2015	G 1/4"	M20x1,5	20	4	27	24	58,0
1430TR12M2815	G 1/2"	M28x1,5	27	6	36	32	125,0



**1440**

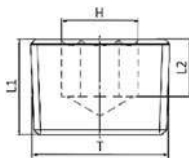
Reduced male BSPT thread & female BSPP thread



CODE	T1	T2	ØP	ØC	L1	L2	L3	L4	L5	H	g
1440TR1418	R 1/4"	G 1/8"	13,5	7,0	23,5	11,0	9	13,0	7,0	14	16,0
1440TR3814	R 3/8"	G 1/4"	16,5	10,0	26,5	11,5	12	13,1	8,0	17	23,7
1440TR1238	R 1/2"	G 3/8"	21,4	13,0	33,0	15,0	17	15,4	10,0	22	47,0

**1461**

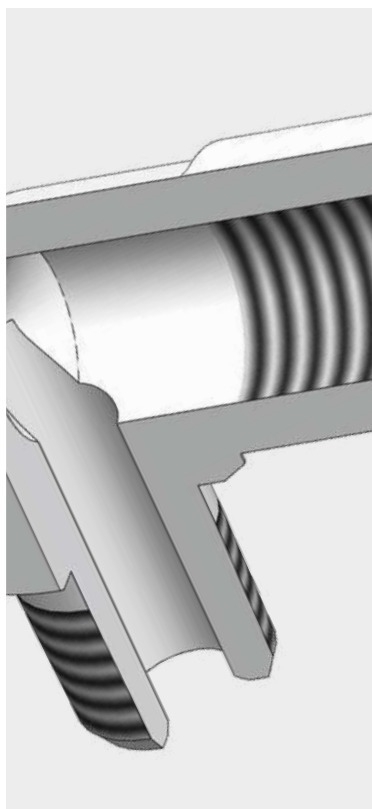
Male plug BSPT thread with exagon embedded





CODE	T	L1	L2	H	g
1461TR18	R 1/8"	8,2	5,0	5	3,0
1461TR14	R 1/4"	10,2	6,0	6	7,4
1461TR38	R 3/8"	11,6	7,0	8	14,0
1461TR12	R 1/2"	13,3	8,0	10	24,5
1461TR34	R 3/4"	15,0	9,0	12	46,4










 -198°C ÷ +648°C  
-28°C ÷ +204°C (1449)

 **Working pressure:**  
See the table for each code.  
The pressure was calculated at 37.8 °C.

 Compressed air, water and fluids suitable with construction materials


 - Taper gas BSPT ISO 7 from R1/8" to R1"  
- Parallel gas BSPP ISO 228 from G1/8" to G1-1/2"  
- NPT from N1/8" to N1"

 **Body:** Stainless steel AISI 316  
**O-ring:** Viton (1449)

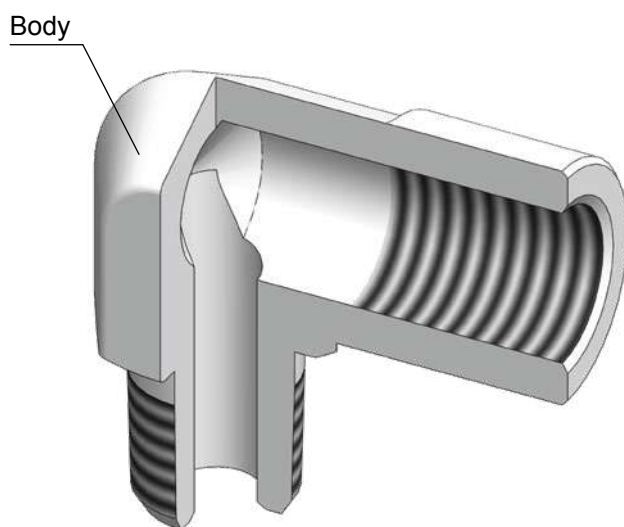
 Food contact materials EC 1935/2004

 D.M. 174  
D.M. 174/2004

 **REACH** COMPLIANT  
Products in compliance with EC Regulation 1907/2006

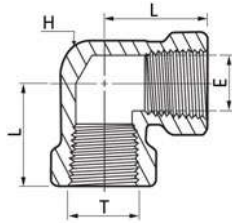
 **RoHS3**  
Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**P-SL**

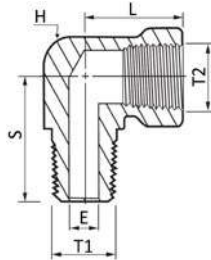
## Female elbow BSPP thread



CODE	T	L	E	H	PN (Bar)
P-SL-2G	G 1/8"	24,1	8,9	12,7	448
P-SL-4G	G 1/4"	29,0	11,7	17,5	455
P-SL-6G	G 3/8"	34,5	15,0	20,6	365
P-SL-8G	G 1/2"	37,0	18,7	25,4	338
P-SL-12G	G 3/4"	46,5	23,5	31,8	317
P-SL-16G	G 1"	48,8	29,7	42,9	303

**P-SSL**

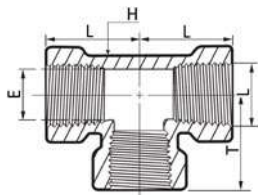
## Male elbow BSPT thread &amp; female BSPP thread



CODE	T1	T2	E	L	S	H	PN (Bar)
P-SSL-2GR	R 1/8"	G 1/8"	4,8	24,1	19,6	12,7	448
P-SSL-4GR	R 1/4"	G 1/4"	7,1	29,0	26,5	17,5	455
P-SSL-6GR	R 3/8"	G 3/8"	9,6	34,5	28,2	20,6	365
P-SSL-8GR	R 1/2"	G 1/2"	11,9	37,0	35,3	25,4	338
P-SSL-12GR	R 3/4"	G 3/4"	15,7	46,5	39,6	31,8	317
P-SSL-16GR	R 1"	G 1"	22,3	48,8	49,2	42,9	303

**P-ST**

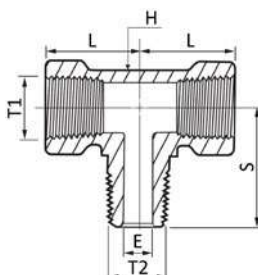
## Female tee BSPP thread



CODE	T	E	L	H	PN (Bar)
P-ST-2G	G 1/8"	8,9	24,1	12,7	448
P-ST-4G	G 1/4"	11,7	29,0	17,5	455
P-ST-6G	G 3/8"	15,0	34,5	20,6	365
P-ST-8G	G 1/2"	18,7	37,0	25,4	338
P-ST-12G	G 3/4"	23,5	46,5	31,8	317
P-ST-16G	G 1"	29,7	48,5	42,9	303

**P-SBT**

## Male tee BSPT thread &amp; female BSPP thread

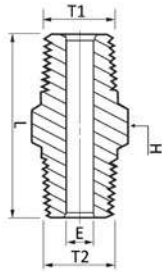


CODE	T1	T2	E	L	S	H	PN (bar)
P-SBT-2GR	G 1/8"	R 1/8"	4,8	24,1	19,6	12,7	448
P-SBT-4GR	G 1/4"	R 1/4"	7,1	29,0	26,5	17,5	455
P-SBT-6GR	G 3/8"	R 3/8"	9,6	34,5	28,2	20,6	365
P-SBT-8GR	G 1/2"	R 1/2"	11,9	37,0	35,3	25,4	338
P-SBT-12GR	G 3/4"	R 3/4"	15,7	46,5	39,6	31,8	317
P-SBT-16GR	G 1"	R 1"	22,3	48,8	49,2	42,9	303



**P-SHN**

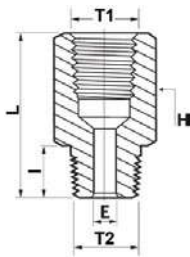
## Nipple adapter NPT &amp; BSPT thread



CODE	T1	T2	L	E	H	PN (Bar)
P-SHN-2NR	N 1/8"	R 1/8"	24,6	4,1	11,1	689
P-SHN-4NR	N 1/4"	R 1/4"	35,6	6,4	14,2	551
P-SHN-6NR	N 3/8"	R 3/8"	36,3	9,7	17,4	538
P-SHN-8NR	N 1/2"	R 1/2"	46,0	11,9	22,2	531
P-SHN-12NR	N 3/4"	R 3/4"	46,7	15,7	26,9	503
P-SHN-16NR	N 1"	R 1"	58,9	22,4	34,9	365

**P-MFAA**

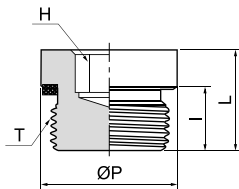
## Adapter male BSPT thread &amp; female NPT thread



CODE	T1	T2	L	I	E	H	PN (Bar)
P-MFAA-2RN	N 1/8"	R 1/8"	27,4	9,7	4,8	14,2	448
P-MFAA-4RN	N 1/4"	R 1/4"	35,8	14,2	7,1	19,05	455
P-MFAA-6RN	N 3/8"	R 3/8"	37,6	14,2	9,7	22,2	365
P-MFAA-8RN	N 1/2"	R 1/2"	49,0	19,1	11,9	26,9	338
P-MFAA-12RN	N 3/4"	R 3/4"	50,3	19,1	15,7	31,8	317
P-MFAA-16RN	N 1"	R 1"	58,0	23,9	22,3	41,2	303

**1449**

## Male plug BSPP thread with Viton O-ring, DIN2353

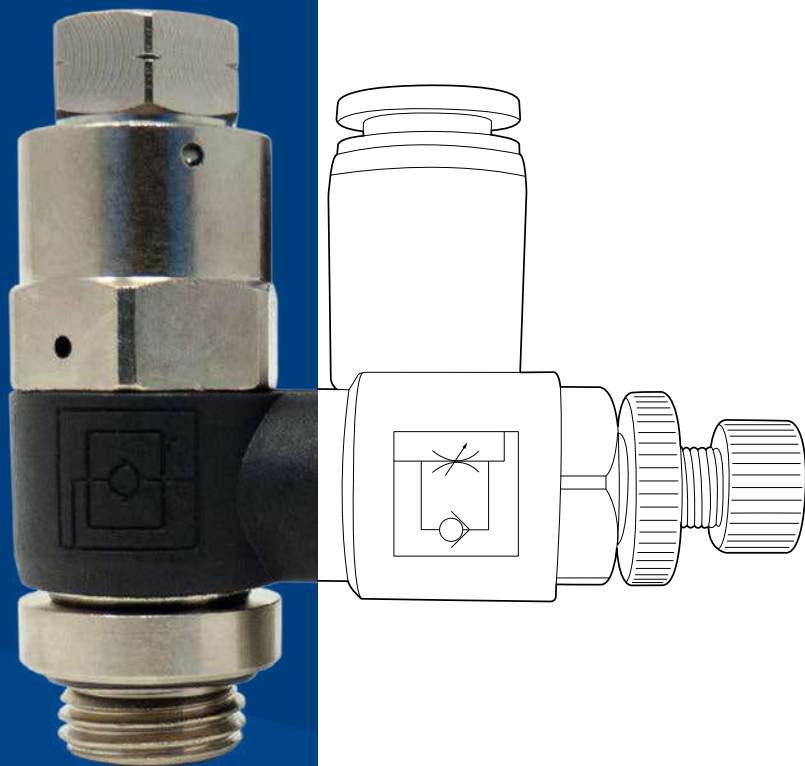


CODE	T	ØP	L	I	H	PN (Bar)
1449TRH18-V	G 1/8"	14	12,0	8	5	400
1449TRH14-V	G 1/4"	19	17,0	12	6	400
1449TRH38-V	G 3/8"	22	17,0	12	8	400
1449TRH12-V	G 1/2"	27	19,0	14	10	400
1449TRH34-V	G 3/4"	32	21,0	16	12	400
1449TRH1-V	G 1"	40	22,5	16	17	400
1449TRH114-V	G 1-1/4"	50	22,5	16	22	250
1449TRH112-V	G 1-1/2"	55	22,5	16	24	250





# FUNCTION FITTINGS





p. 319  
**FLOW REGULATORS**

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p. 355  
**EXHAUST VALVES**

---

# TECHNICAL INDEX



p. 367  
**STOP FITTINGS**

---



p. 373  
**CHECK VALVES**

---



**FUNCTION  
FITTINGS  
FLOW  
REGULATORS**

**PLUS**

**MADE OF DIFFERENT MATERIALS  
FOR SPECIFIC INDUSTRIAL  
APPLICATIONS**

---

**ALSO AVAILABLE IN MANUAL  
EXHAUST**

---

**THE DOUBLE FUNCTION FITTINGS  
WITH INTEGRATED CHECK VALVE  
COMPLETE THE RANGE**

---

**PRECISE REGULATION THAT ALLOWS  
AN ACCURATE FLOW DOSAGE WITH  
LIMITED PRESSURE LOSS**

---

**PASSAGE Ø OPTIMIZED IN  
ACCORDANCE WITH DIMENSIONS**



**BANJO FLOW REGULATORS / WTR SERIES**

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p. 324 / **WTRFR-R**



p. 324 / **WTRFR-R-IN**



p. 325 / **WTRFR-G**



p. 325 / **WTRFR-G-IN**

**FLAT FLOW REGULATORS / WTR SERIES**

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p. 328 / **WTRNSF**

**BANJO FLOW REGULATORS / M SERIES**

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p. 331 / **MSC-R**



p. 331 / **MSC-G**

**FLAT FLOW REGULATORS / M SERIES**

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p. 334 / **MSF**

**BANJO FLOW REGULATORS / BRASS & ZINC CDC**

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p. 336 / **NSCF**





**BANJO FLOW REGULATORS / BRASS**



p. 338 / **OTSC-G**



p. 338 / **OTSC-G-IN**



p. 338 / **OTSC-G-D**



p. 339 / **OTSC-G-D-IN**



p. 339 / **OTSC-G-D-B**



p. 339 / **OTSC-G-DF**



p.340 / **OTSC-G-DF-IN**



p. 340 / **OTSC-G-DF-B**

**FLAT FLOW REGULATORS / ALUMINIUM**



p. 342 / **ASF-U**



p. 342 / **ASF-B**

**FLOW REGULATORS / ACETAL RESIN**



p. 344 / **HSTU**



p. 344 / **HSLU**



p. 344 / **HSTB**



p. 344 / **HSLB**

**FLOW REGULATORS / YELLOW BRASS CW510L**



p. 346 / **LFSF-B**



**BANJO FLOW REGULATORS / STAINLESS STEEL AISI 316**

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p. 348 / **SXSC-D**



p. 348 / **SXSC-DF**

**FLAT FLOW REGULATORS / STAINLESS STEEL AISI 316**

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p. 350 / **XSFC-U**



p. 350 / **XSFC-B**



p. 350 / **XSFC-U-N**



p. 350 / **XSFC-B-N**

**FLOW REGULATORS WITH PILOT CHECK VALVES / TECHNOPYMER**

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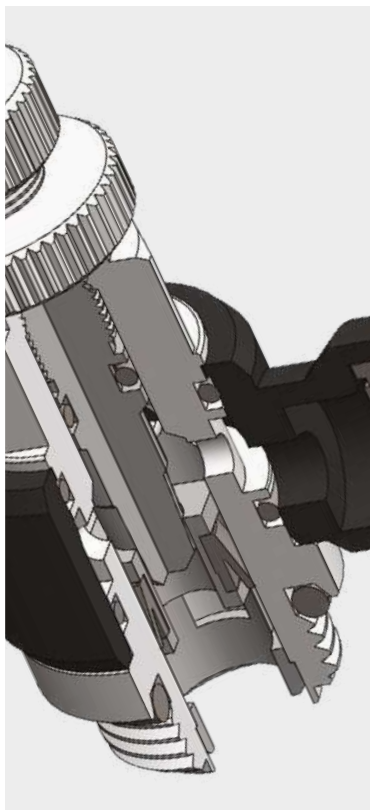


p. 353 / **PVSC-R**



p. 353 / **PVSC-G**





0°C ÷ 60°C



Working pressure:

10 Bar

Negative pressure:

- 0,95 Bar (- 95 Kpa)



Compressed air & Vacuum



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon

- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"

- Metric ISO 262  
M5



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE



Manual flow regulation

Body: Nickel-plated brass and PBT

Collet: POM

Collar: Zinc

Lock claw: Stainless steel AISI 301



Back ring: POM

Seal: NBR silicone free

O-ring: NBR silicone free

Handle: Nickel-plated brass

Lock nut: Nickel-plated brass

**SILICONE FREE**

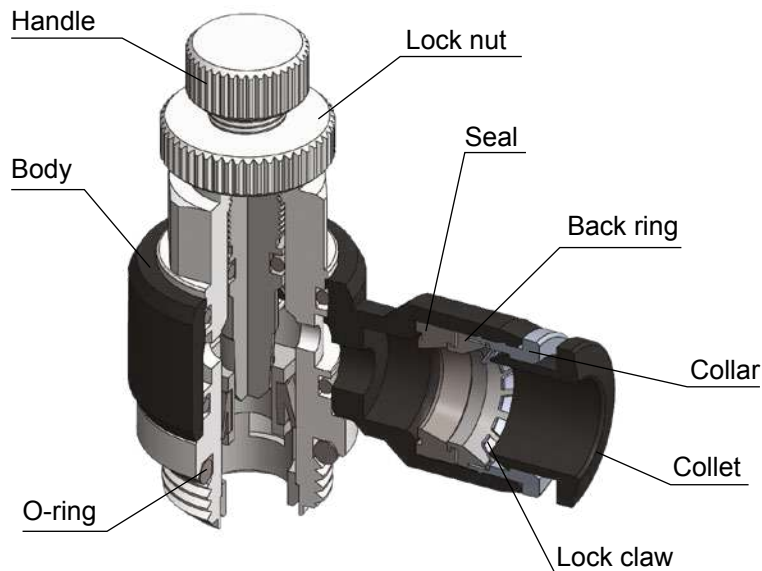


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

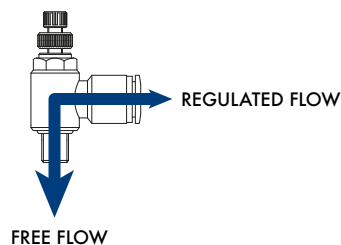
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



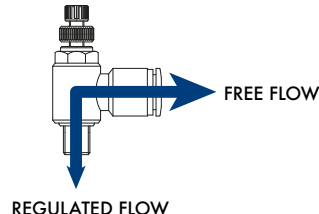
**EXHAUST (FOR CYLINDERS)**

black collet



**SUPPLY (FOR VALVES)**

red collet



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

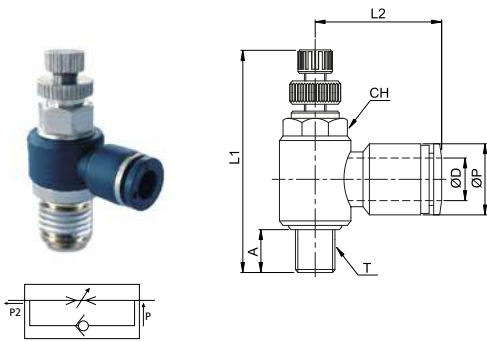
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	1/8"	1/4"	3/8"	1/2"
Nm	1,5	10	15	25	40



**WTRFR-R**

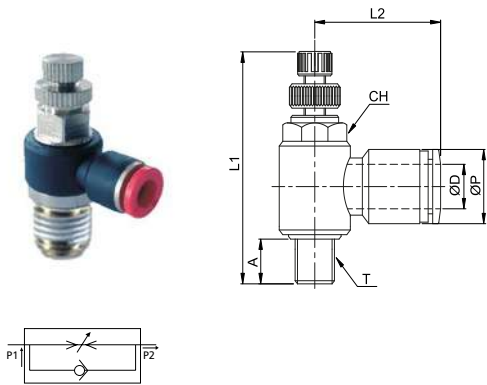
Banjo male elbow flow regulator unidirectional, for cylinders, BSPT thread with handle regulation



CODE	ØD	T	ØP	L1	L2	A	CH	g
WTRFR04R01	4	R 1/8"	11,1	39,7	22,3	7	10	18
WTRFR04R02		R 1/4"	11,1	45,5	24,1	9,5	14	35,9
WTRFR06R01	6	R 1/8"	13	39,7	23,1	7	10	18,5
WTRFR06R02		R 1/4"	13	45,5	25,1	9,5	14	36,5
WTRFR06R03		R 3/8"	13	52	26,8	10,5	19	60,5
WTRFR06R04	6	R 1/2"	13	58	29,8	13,5	24	92,7
WTRFR08R01	8	R 1/8"	15,1	39,7	25,6	7	10	19,3
WTRFR08R02		R 1/4"	15,1	45,5	28,6	9,5	14	37,3
WTRFR08R03		R 3/8"	15,1	52	29,6	10,5	19	61,1
WTRFR08R04		R 1/2"	15,1	58	32,6	13,5	24	93,4
WTRFR10R01	10	R 1/8"	18,8	39,7	28,8	7	10	22,7
WTRFR10R02		R 1/4"	18,8	45,5	31	9,5	14	40,7
WTRFR10R03		R 3/8"	18,8	52	31,6	10,5	19	64,5
WTRFR10R04		R 1/2"	18,8	58	34,6	13,5	24	96,8
WTRFR12R02	12	R 1/4"	21,5	45,5	33,5	9,5	14	42,2
WTRFR12R03		R 3/8"	21,5	52	35,6	10,5	19	66,1
WTRFR12R04		R 1/2"	21,5	58	36,6	13,5	24	98,3

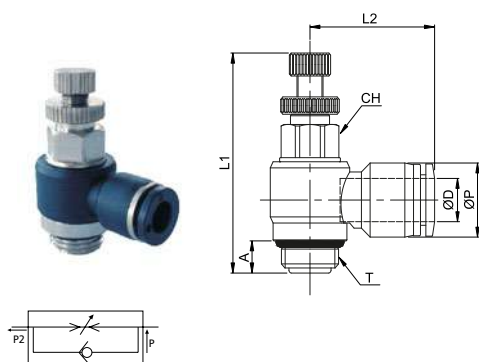
**WTRFR-R-IN**

Banjo male elbow flow regulator unidirectional, for valves, BSPT thread with handle regulation

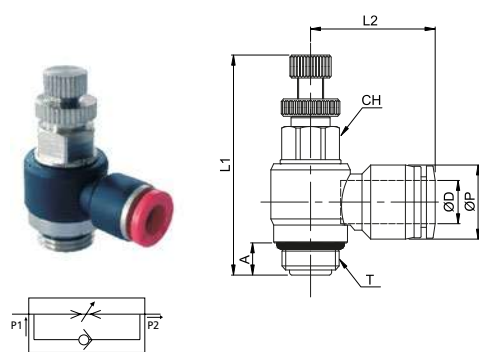


CODE	ØD	T	ØP	L1	L2	B	H	g
WTRFR04R01-IN	4	R 1/8"	11,1	39,7	22,3	7	10	18
WTRFR04R02-IN		R 1/4"	11,1	45,5	24,1	9,5	14	35,9
WTRFR06R01-IN	6	R 1/8"	13	39,7	23,1	7	10	18,5
WTRFR06R02-IN		R 1/4"	13	45,5	25,1	9,5	14	36,5
WTRFR06R03-IN		R 3/8"	13	52	26,8	10,5	19	60,5
WTRFR06R04-IN	6	R 1/2"	13	58	29,8	13,5	24	92,7
WTRFR08R01-IN	8	R 1/8"	15,1	39,7	25,6	7	10	19,3
WTRFR08R02-IN		R 1/4"	15,1	45,5	28,6	9,5	14	37,3
WTRFR08R03-IN		R 3/8"	15,1	52	29,6	10,5	19	61,1
WTRFR08R04-IN		R 1/2"	15,1	58	32,6	13,5	24	93,4
WTRFR10R01-IN	10	R 1/8"	18,8	39,7	28,8	7	10	22,7
WTRFR10R02-IN		R 1/4"	18,8	45,5	31	9,5	14	40,7
WTRFR10R03-IN		R 3/8"	18,8	52	31,6	10,5	19	64,5
WTRFR10R04-IN		R 1/2"	18,8	58	34,6	13,5	24	96,8
WTRFR12R02-IN	12	R 1/4"	21,5	45,5	33,5	9,5	14	42,2
WTRFR12R03-IN		R 3/8"	21,5	52	35,6	10,5	19	66,1
WTRFR12R04-IN		R 1/2"	21,5	58	36,6	13,5	24	98,3



**WTRFR-G** Banjo male elbow flow regulator unidirectional, for cylinders, BSPP & metric thread with handle regulation

CODE	ØD	T	ØP	A	L1	L2	CH	g	
WTRFR04M5	4	M5x0,8	11,1	4	29,3	20	8	15	
WTRFR04G01		G 1/8"	11,1	5	39,7	22,3	8	18	
WTRFR04G02		G 1/4"	11,1	6	45,5	24,1	12	36	
WTRFR06M5	6	M5x0,8	13	4	29,3	21,9	8	17	
WTRFR06G01		G 1/8"	13	5	39,7	23,1	8	18,5	
WTRFR06G02		G 1/4"	13	6	45,5	25,1	12	36,5	
WTRFR06G03	6	G 3/8"	13	7,2	52	26,8	14	60,5	
WTRFR06G04		G 1/2"	13	8,2	58	29,8	17	92,7	
WTRFR08G01		G 1/8"	15,1	5	39,7	25,6	8	19,3	
WTRFR08G02	8	G 1/4"	15,1	6	45,5	8,6	12	37,3	
WTRFR08G03		G 3/8"	15,1	7,2	52	29,6	14	61,1	
WTRFR08G04		G 1/2"	15,1	8,2	58	32,6	17	93,4	
WTRFR10G01	10	G 1/8"	18,8	5	39,7	28,8	8	22,7	
WTRFR10G02		G 1/4"	18,8	6	45,5	31,1	12	40,7	
WTRFR10G03		G 3/8"	18,8	7,2	52	31,6	14	64,5	
WTRFR10G04	10	G 1/2"	18,8	8,2	58	34,6	17	96,8	
WTRFR12G02		12	G 1/4"	21,5	6	45,5	33,5	12	42,2
WTRFR12G03			G 3/8"	21,5	7,2	52	35,6	14	66,1
WTRFR12G04	G 1/2"		21,5	8,2	58	36,6	17	98,3	

**WTRFR-G-IN** Banjo male elbow flow regulator unidirectional, for valves, BSPP & metric thread with handle regulation

CODE	ØD	T	ØP	A	L1	L2	CH	g	
WTRFR04M5-IN	4	M5x0,8	11,1	4	29,3	20	8	15	
WTRFR04G01-IN		G 1/8"	11,1	5	39,7	22,3	8	18	
WTRFR04G02-IN		G 1/4"	11,1	6	45,5	24,1	12	36	
WTRFR06M5-IN	6	M5x0,8	13	4	29,3	21,9	8	17	
WTRFR06G01-IN		G 1/8"	13	5	39,7	23,1	8	18,5	
WTRFR06G02-IN		G 1/4"	13	6	45,5	25,1	12	36,5	
WTRFR06G03-IN	6	G 3/8"	13	7,2	52	26,8	14	60,5	
WTRFR06G04-IN		G 1/2"	13	8,2	58	29,8	17	92,7	
WTRFR08G01-IN		8	G 1/8"	15,1	5	39,7	25,6	8	19,3
WTRFR08G02-IN	G 1/4"		15,1	6	45,5	8,6	12	37,3	
WTRFR08G03-IN	G 3/8"		15,1	7,2	52	29,6	14	61,1	
WTRFR08G04-IN	8	G 1/2"	15,1	8,2	58	32,6	17	93,4	
WTRFR10G01-IN		10	G 1/8"	18,8	5	39,7	28,8	8	22,7
WTRFR10G02-IN			G 1/4"	18,8	6	45,5	31,1	12	40,7
WTRFR10G03-IN	G 3/8"		18,8	7,2	52	31,6	14	64,5	
WTRFR10G04-IN	10	G 1/2"	18,8	8,2	58	34,6	17	96,8	
WTRFR12G02-IN		12	G 1/4"	21,5	6	45,5	33,5	12	42,2
WTRFR12G03-IN			G 3/8"	21,5	7,2	52	35,6	14	66,1
WTRFR12G04-IN	G 1/2"		21,5	8,2	58	36,6	17	98,3	



 **TierreGroup**<sup>®</sup>  
Always a fittings solution

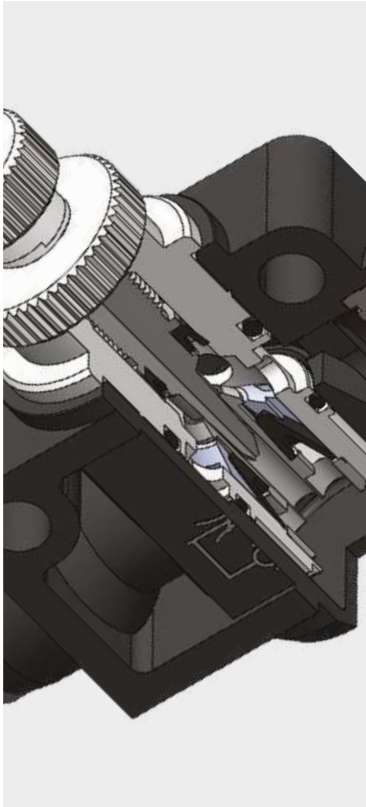
RIDUCIAMO LE MICROPLASTICHE,  
**AIUTIAMO L'AMBIENTE**

#TIERREWORLD

 **TierreGroup**<sup>®</sup>

**FOLLOW US!**





0°C ÷ 60°C



Working pressure:  
10 Bar  
Negative pressure:  
- 0,95 Bar ( - 95 Kpa)



Compressed air & Vacuum



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE



Manual flow regulation

Body: PBT  
Collet: POM  
Collar: Zinc  
Lock claw: Stainless steel AISI 301  
Back ring: POM  
Seal: NBR  
O-ring: NBR  
Handle: Nickel-plated brass  
Lock nut: Nickel-plated brass

**SILICONE FREE**

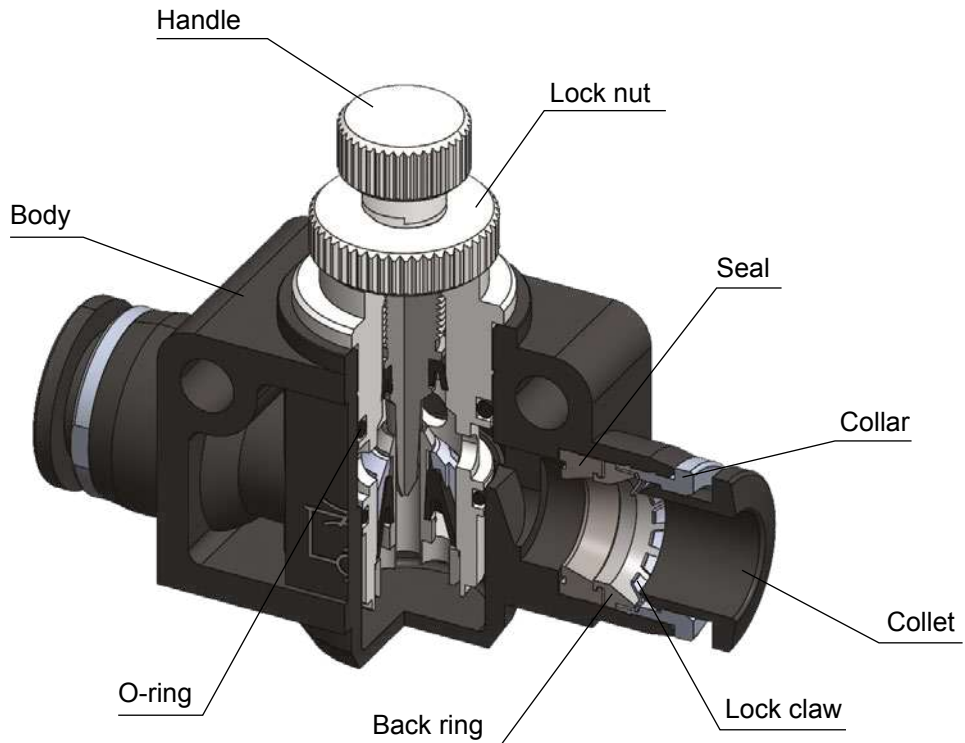


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

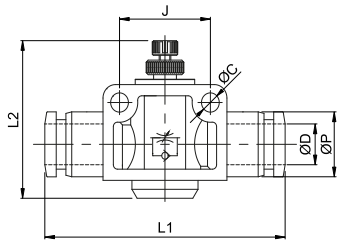
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**

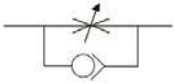


**WTRNSF**

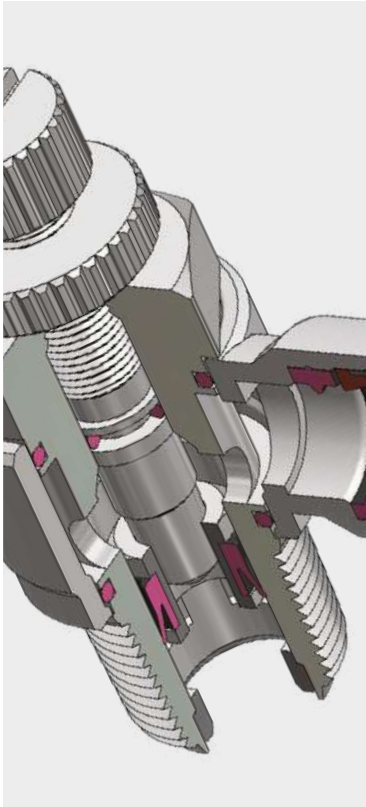
Unidirectional flat flow regulator with handle regulation



CODE	ØD	ØP	ØC	J	L1	L2	g
WTRNSF04	4	11,1	3,2	14	39,5	28,8	11,7
WTRNSF06	6	13	4,3	20	47,6	42,6	27
WTRNSF08	8	15,1	4,3	22	52,6	44,3	39,5
WTRNSF10	10	18,8	4,3	26	60,5	53,4	69
WTRNSF12	12	21,5	4,3	32	74,2	55,6	113,2







0°C ÷ 60°C



**Working pressure:**  
10 Bar

**Negative pressure:**  
- 0,95 Bar ( - 95 kPa)

Pressure peaks do not exceed the max working pressure



Compressed air & vacuum  
(do not use with water)



- Taper gas BSPT ISO 7 from R1/8" to R1/2" with teflon
- Parallel gas BSPP ISO 228 with OR from G1/8" to G1/2"
- Metric ISO 262 M5



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE



Manual flow regulation and screwdriver



- Body: Nickel-plated brass and PA66
- Collet: PA66
- Collar: PA66
- Lock claw: Stainless steel AISI 301
- Back ring: POM
- Seal: NBR
- O-ring: NBR
- Handle: Nickel-plated brass
- Lock nut: Nickel-plated brass

**SILICONE FREE**

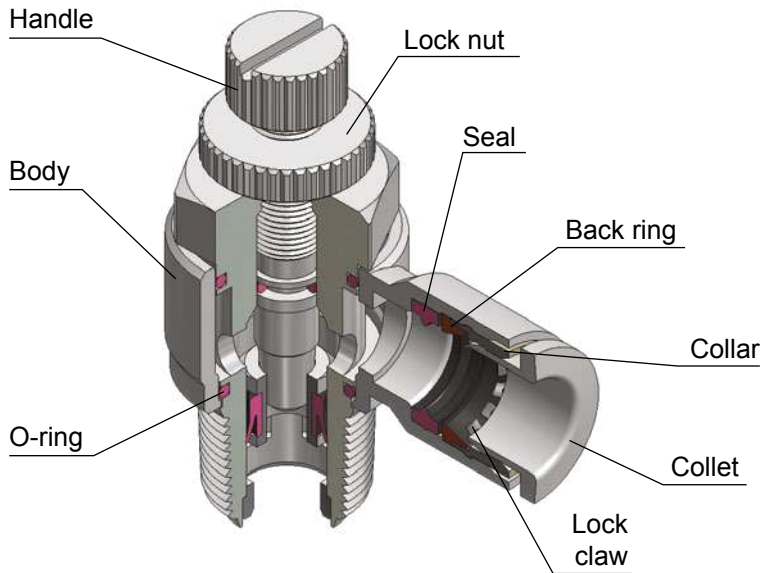


Products in compliance with EC Regulation 1907/2006

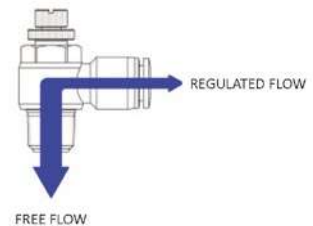
**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**EXHAUST (FOR CYLINDERS)**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

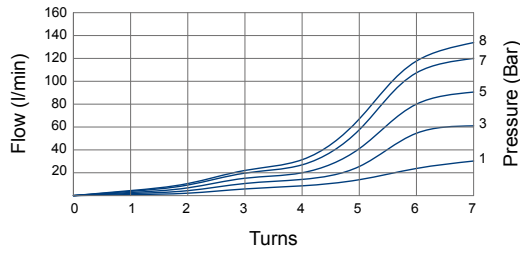
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	1/8"	1/4"	3/8"	1/2"
Nm	1,5	10	15	25	40

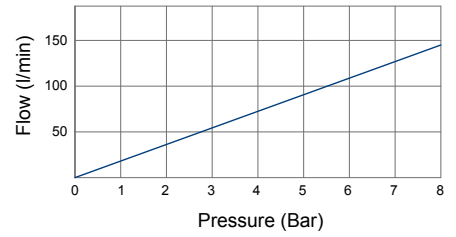


**MSC04M5  
MSC06M5**

Flow Control

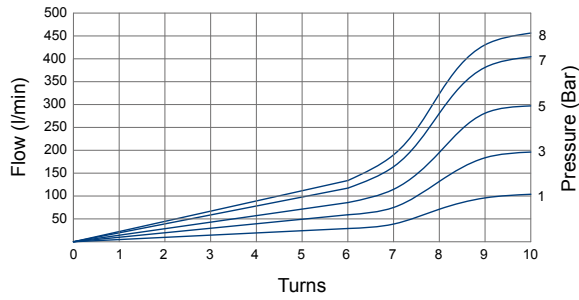


Free Flow

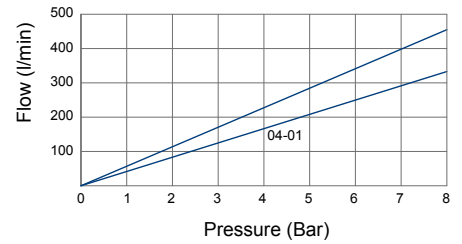


**MSC0401  
MSC0601  
MSC0801  
MSC1001**

Flow Control

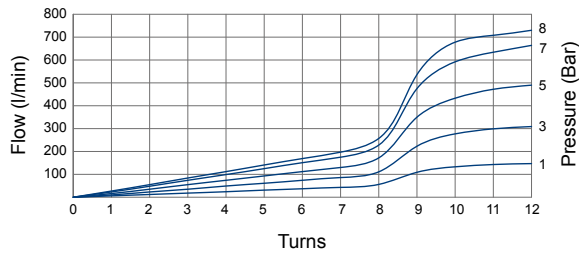


Free Flow

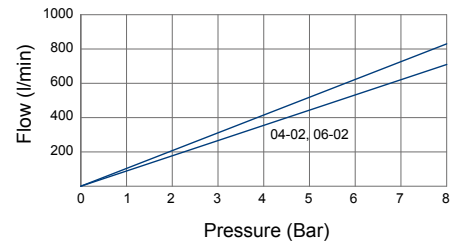


**MSC0402  
MSC0602  
MSC0802  
MSC1002  
MSC1202**

Flow Control

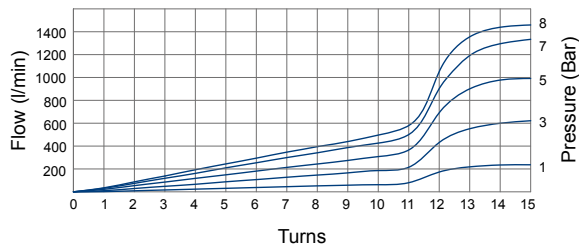


Free Flow

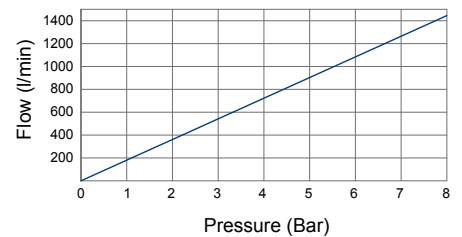


**MSC0603  
MSC0803  
MSC1003  
MSC1203**

Flow Control

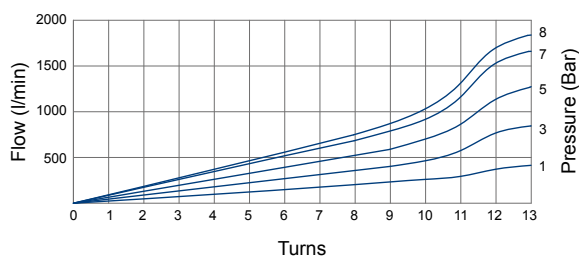


Free Flow

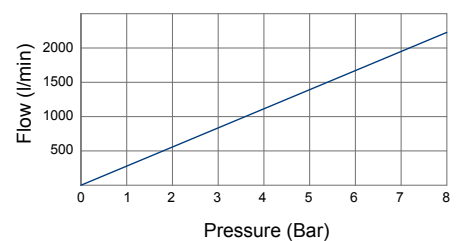


**MSC0604  
MSC0804  
MSC1004  
MSC1204**

Flow Control

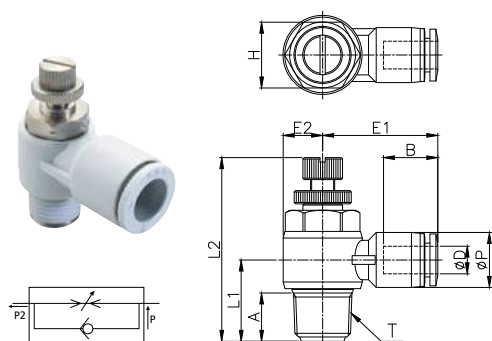


Free Flow



**MSC-R**

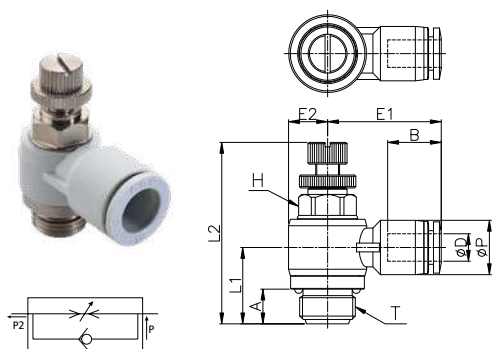
Banjo male elbow flow regulator unidirectional, for cylinders, BSPT thread with handle regulation



CODE	ØD	T	ØP	L1	L2 MIN	L2 MAX	E1	E2	A	B	H
MSC04R01	4	R 1/8"	9,3	15,0	35,5	40,7	20,0	7,0	8,2	13,0	11
MSC04R02		R 1/4"	9,3	18,5	40,3	46,6	22,0	9,0	11,0	13,0	15
MSC06R01	6	R 1/8"	11,5	15,1	35,5	40,7	22,1	7,0	8,2	15,0	11
MSC06R02		R 1/4"	11,5	18,3	40,3	46,5	24,0	9,0	11,0	15,0	15
MSC06R03		R 3/8"	11,5	21,7	46,9	55,0	26,1	11,0	12,2	15,0	19
MSC06R04		R 1/2"	11,5	26,4	54,0	60,1	28,8	13,8	16,5	15,0	24
MSC08R01	8	R 1/8"	13,6	16,2	35,5	40,7	24,2	7,1	8,2	17,1	11
MSC08R02		R 1/4"	13,6	19,2	40,3	46,6	26,1	9,0	11,0	17,1	15
MSC08R03		R 3/8"	13,6	21,7	46,9	54,9	28,2	11,1	12,2	17,1	19
MSC08R04		R 1/2"	13,6	26,4	54,0	60,1	30,9	13,8	16,5	17,1	24
MSC10R01	10	R 1/8"	16,4	17,6	35,5	40,7	26,8	7,1	8,2	18,4	11
MSC10R02		R 1/4"	16,4	20,6	40,3	46,6	28,6	9,0	11,0	18,4	15
MSC10R03		R 3/8"	16,4	23,0	46,9	54,9	29,5	11,1	12,2	18,4	19
MSC10R04		R 1/2"	16,4	26,4	54,0	60,1	32,2	13,8	16,5	18,4	24
MSC12R02	12	R 1/4"	19,5	22,1	40,3	46,6	30,9	9,0	11,0	20,4	15
MSC12R03		R 3/8"	19,5	23,8	46,9	54,9	32,7	11,1	12,2	20,4	19
MSC12R04		R 1/2"	19,5	27,9	54,0	60,1	35,2	13,8	16,5	21,4	24

**MSC-G**

Banjo male swivel elbow flow regulator unidirectional, for cylinders, BSPP &amp; metric thread with handle regulation




CODE	ØD	T	ØP	L1	L2 MIN	L2 MAX	E1	E2	A	B	H
MSC04M5	4	M5x0.8P	9,3	10,2	27,1	29,1	17,8	4,9	3,6	12,9	8
MSC04G01		G 1/8"	9,3	15,2	34,6	39,8	20,0	7,1	6,0	12,9	8
MSC04G02		G 1/4"	9,3	18,2	39,8	46,1	21,9	9,0	8,0	12,9	12
MSC06M5	6	M5x0.8P	11,5	11,3	27,1	29,1	20,9	4,9	3,6	15,0	8
MSC06G01		G 1/8"	11,5	15,2	34,6	39,8	22,1	7,1	6,0	15,0	8
MSC06G02		G 1/4"	11,5	18,3	39,8	46,1	24,0	9,0	8,0	15,0	12
MSC06G03		G 3/8"	11,5	21,2	47,7	54,9	26,1	11,1	8,0	15,0	14
MSC06G04	G 1/2"	11,5	23,0	54,5	61,7	28,8	13,8	9,0	15,0	17	
MSC08G01	8	G 1/8"	13,6	13,9	34,6	39,8	24,2	7,1	6,0	17,1	8
MSC08G02		G 1/4"	13,6	17,4	39,8	46,1	26,1	9,0	8,0	17,1	12
MSC08G03		G 3/8"	13,6	21,2	47,7	54,9	28,2	11,1	8,0	17,1	14
MSC08G04		G 1/2"	13,6	23,0	54,5	61,7	30,9	13,8	9,0	17,1	17
MSC10G01	10	G 1/8"	16,4	17,8	34,6	39,8	25,5	7,1	6,0	18,4	8
MSC10G02		G 1/4"	16,4	19,8	39,8	46,1	27,4	9,0	8,0	18,4	12
MSC10G03		G 3/8"	16,4	19,9	47,7	54,9	29,5	11,1	8,0	18,4	14
MSC10G04		G 1/2"	16,4	23,0	54,5	61,7	32,2	13,8	9,0	18,4	17
MSC12G02	12	G 1/4"	29,5	21,3	34,6	39,8	29,4	9,0	8,0	20,4	12
MSC12G03		G 3/8"	29,5	19,1	47,7	54,9	32,7	11,1	8,0	20,4	14
MSC12G04		G 1/2"	29,5	21,4	54,5	61,7	35,2	13,8	9,0	21,4	17



 **TierreGroup**<sup>®</sup>  
Always a fittings solution

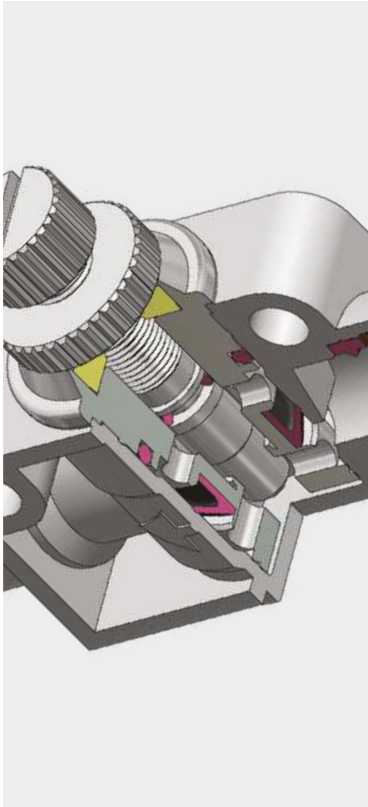
CON **UTIMAC SCY 6-36 HT**  
LA NOSTRA PRODUZIONE ITALIANA  
È IN **CRESCITA**

#TIERREREALTIME

 **TierreGroup**<sup>®</sup>

**FOLLOW US!**





0°C ÷ 60°C



**Working pressure:**

10 Bar

**Negative pressure:**

- 0,95 Bar ( - 95 kPa)

Pressure peaks do not exceed the max working pressure



Compressed air & vacuum  
(do not use with water)



Polyamide PA,  
Polyurethane PU,  
Polyethylene PE



Manual flow regulation and  
screwdriver

**Body:** PA66 & Nickel-plated brass

**Collet:** PA66

**Collar:** PA66

**Lock claw:** Stainless steel AISI 301



**Back ring:** POM

**Seal:** NBR

**O-ring:** NBR

**Handle:** Nickel-plated brass

**Lock nut:** Nickel-plated brass

**SILICONE FREE**

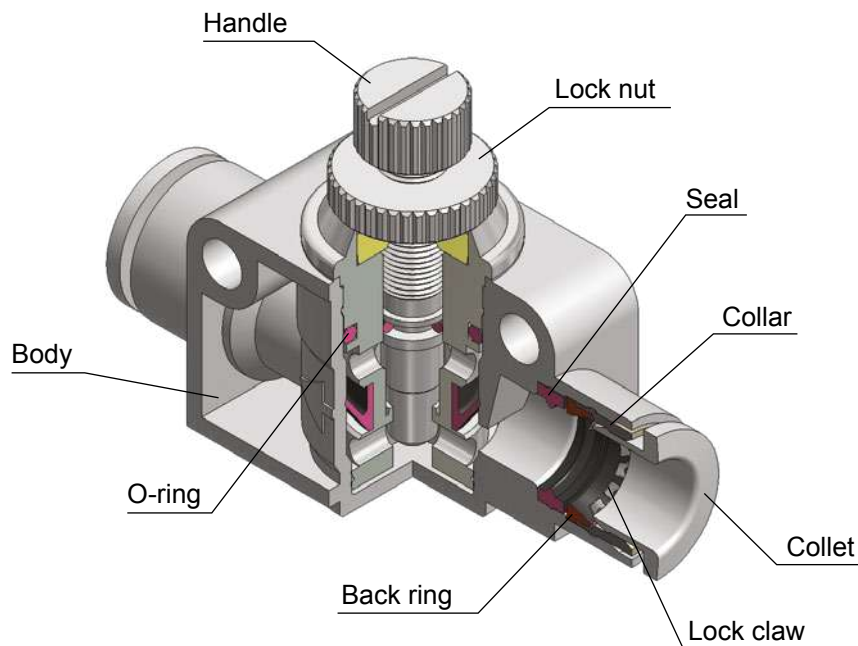


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

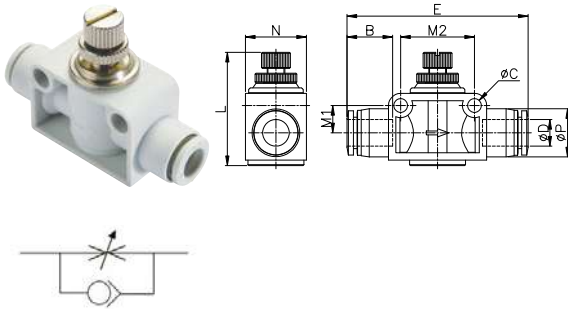
Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



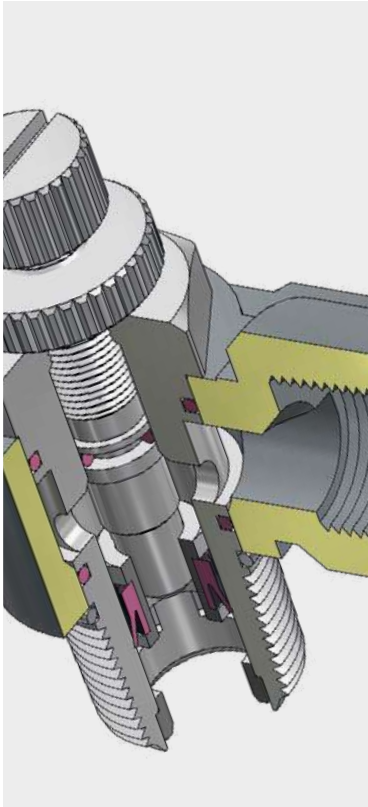
**MSF**

Unidirectional flat flow regulator, in technopolymer, with handle regulation



CODE	ØD	ØP	L MIN	L MAX	E	N	ØC	B	M1	M2
MSF04	4	9,5	26,4	28,9	38,8	11,0	3,2	13,4	5,4	15,4
MSF06	6	11,5	33,5	37,9	46,5	15,0	4,3	15,0	7,8	20,4
MSF08	8	13,6	35,5	41,5	53,1	18,0	4,3	17,1	8,5	23,0
MSF10	10	16,4	40,7	48,7	60,4	22,5	4,3	18,9	10,6	27,6
MSF12	12	19,5	45,0	53,5	70,8	26,5	4,3	21,4	11,9	32,4





0°C ÷ 60°C



Working pressure:  
10 Bar  
Negative pressure:  
-0,95 Bar ( - 99 Kpa)



Compressed air & vacuum  
(do not use with water)



Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon



Manual flow regulation and  
screwdriver



Body: Nickel plated brass & Zinc  
Back ring: NBR  
Seal: NBR  
O-ring: NBR  
Handle: Nickel plated brass  
Lock nut: Nickel plated brass

**SILICONE FREE**

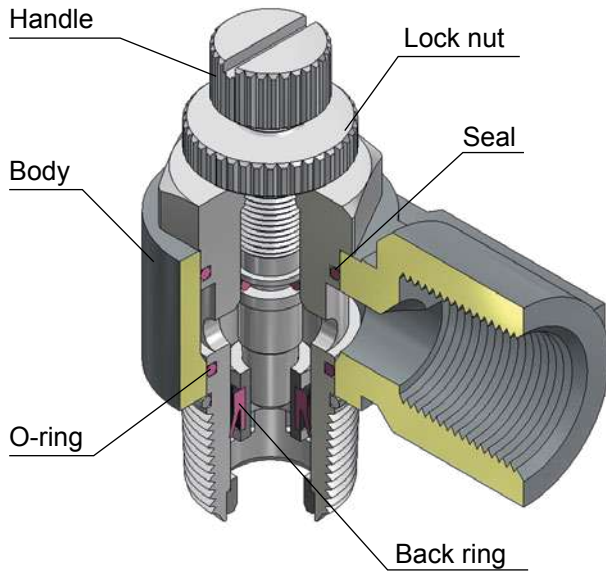


Products in compliance with  
EC Regulation 1907/2006

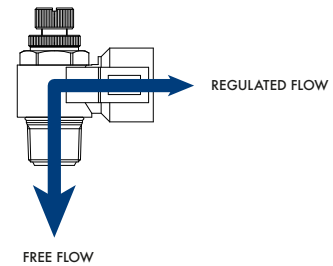
**RoHS3**

Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**EXHAUST  
(FOR CYLINDERS)**



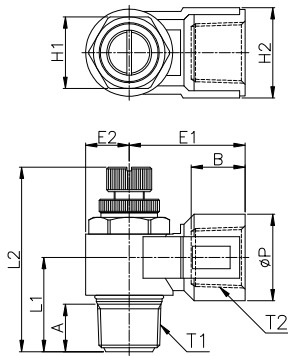
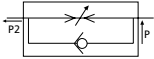
**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28



**NSCF**

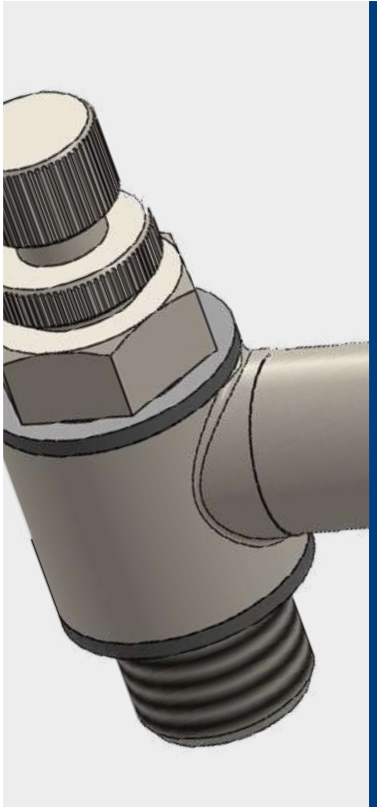
Unidirectional brass banjo flow regulator, BSPT thread for cylinders, with handle regulation




CODE	T1	T2	ØP	A	B	L1	L2 MIN	L2 MAX	E1	E2	H1	H2	g
NSCF-R01	R 1/8"	RC 1/8"	14.5	7.6	10.0	16.0	35.5	40.7	18.2	7.3	12	15	30.1
NSCF-R02	R 1/4"	RC 1/4"	18.0	10.6	13.0	21.1	40.3	46.6	26.5	9.5	15	19	60.2
NSCF-R03	R 3/8"	RC 3/8"	23.0	12.6	14.5	25.0	46.9	54.9	30.8	11.6	19	24	107.0
NSCF-R04	R 1/2"	RC 1/2"	26.5	14.5	19.0	29.1	54.0	60.1	38.7	14.0	24	28	170.1









-  -20°C ÷ 70°C


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-  Working pressure:  
10 Bar


---

-  Compressed air  
(lubricated and non-lubricated)


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-  - Parallel gas BSPP ISO 228  
from G1/8" to G1/2"  
- Metric ISO 262  
M5

---


-  Polyamide PA,  
Polyurethane PU

---

-  Manual flow regulation and  
screwdriver

**FLOW**

Flow data are indicated in the table

- Body: Nickel-plated brass  
UNI EN 12164 CW617N
- Collet: Nickel-plated brass  
UNI EN 12164 CW614N
-  Lock claw: Stainless steel AISI 316L
- Seal: NBR silicone free
- O-ring: NBR silicone free
- Handle: Nickel-plated brass  
UNI EN 12164 CW614N
- Lock nut: Nickel-plated brass  
UNI EN 12164 CW614N

**SILICONE FREE**

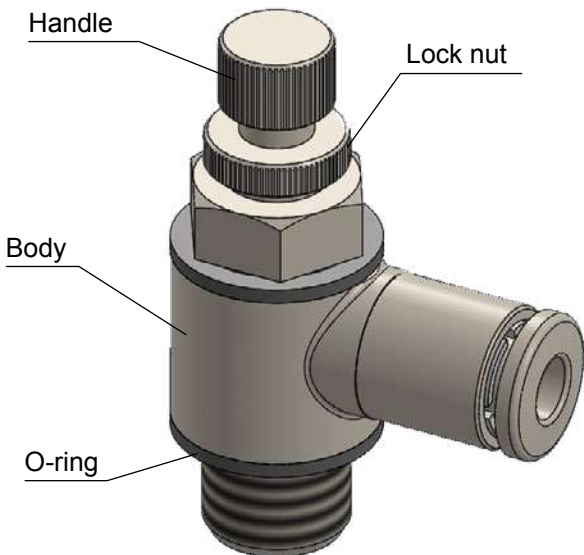


Products in compliance with  
EC Regulation 1907/2006

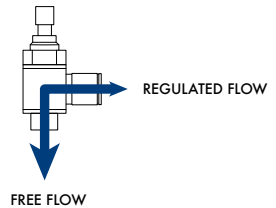


Products in compliance with  
the directive EU 2015/863

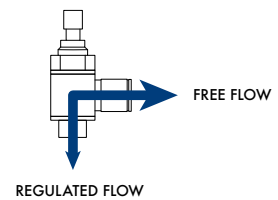
**CONSTRUCTION DETAILS**



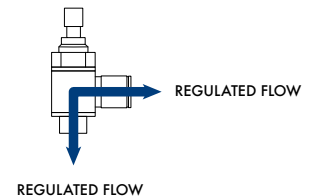
**EXHAUST  
(FOR CYLINDERS)**



**SUPPLY  
(FOR VALVES)**



**BIDIRECTIONAL**



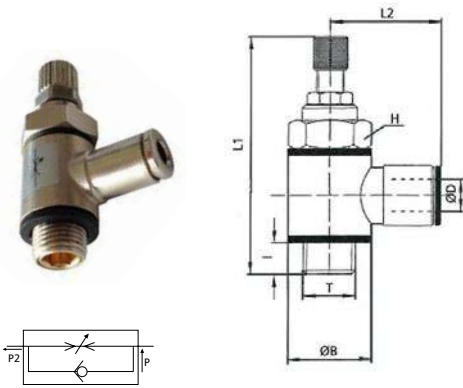
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228

THREAD	M5x0,8	1/8"	1/4"	3/8"	1/2"
Nm	0,8	1,2	1,5	2,5	3,5



**OTSC-G**

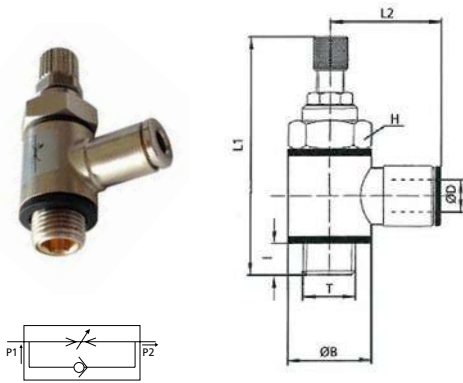
Unidirectional swivel flow regulator, male BSPP thread for cylinders, with handle regulation



CODE	ØD	T	I	ØB	L1	L2	H	NL/min	g
OTSC04G01	4	G 1/8"	5,5	14	49,0	21,0	14	310	36,0
OTSC06G01	6	G 1/8"	5	14	49,0	23,0	14	390	38,0
OTSC06G02		G 1/4"	6	18	56,5	24,0	17	710	65,0
OTSC08G01	8	G 1/8"	5	14	49,0	24,5	14	390	39,0
OTSC08G02		G 1/4"	6	18	56,5	26,0	17	810	66,0
OTSC10G02	10	G 1/4"	6	18	56,5	27,0	17	810	69,0
OTSC12G02	12	G 1/4"	6	18	56,5	28,0	17	810	70,0

**OTSC-G-IN**

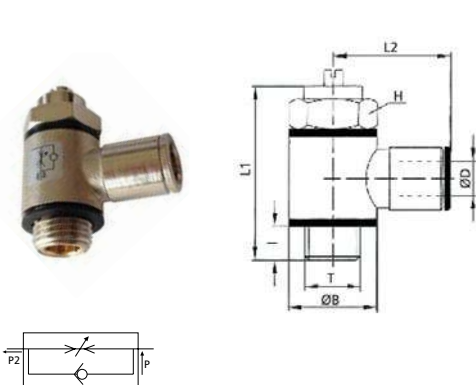
Unidirectional swivel flow regulator, male BSPP thread for valves, with handle regulation



CODE	ØD	T	I	ØB	L1	L2	H	NL/min	g
OTSC04G01IN	4	G 1/8"	5,5	14	49,0	21,0	14	310	36,0
OTSC06G01IN	6	G 1/8"	5	14	49,0	23,0	14	390	38,0
OTSC06G02IN		G 1/4"	6	18	56,5	24,0	17	710	65,0
OTSC08G01IN	8	G 1/8"	5	14	49,0	24,5	14	390	39,0
OTSC08G02IN		G 1/4"	6	18	56,5	26,0	17	810	66,0
OTSC10G02IN	10	G 1/4"	6	18	56,5	27,0	17	810	69,0
OTSC12G02IN	12	G 1/4"	6	18	56,5	28,0	17	810	70,0

**OTSC-G-D**

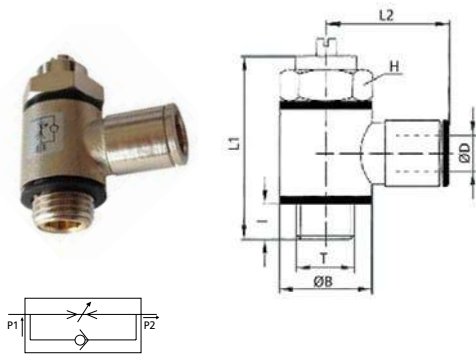
Unidirectional swivel flow regulator, male BSPP & metric thread for cylinders, with screwdriver regulation



CODE	ØD	T	I	ØB	L1	L2	H	NL/min	g
OTSC04M5D	4	M5x0,8	4	9	25,0	18,0	8	45	14,0
OTSC04G01D		G 1/8"	5	14	32,0	21,0	14	310	31,0
OTSC06M5D	6	M5x0,8	4	9	25,5	21,5	8	45	15,5
OTSC06G01D		G 1/8"	5	14	32,0	23,0	14	390	33,0
OTSC06G02D	6	G 1/4"	6	18	37,0	24,0	17	710	55,0
OTSC08G01D		G 1/8"	5	14	32,0	24,5	14	390	34,0
OTSC08G02D	8	G 1/4"	6	18	37,0	26,0	17	810	56,0
OTSC08G03D		G 3/8"	6,5	21	46,5	27,0	20	1050	87,0
OTSC10G02D	10	G 1/4"	6	18	37,0	27,0	17	810	58,5
OTSC10G03D		G 3/8"	6,5	21	46,0	28,5	20	1050	88,0
OTSC12G02D	12	G 1/4"	6	18	37,0	28,5	17	810	59,0
OTSC12G03D		G 3/8"	6,5	21	46,0	29,5	20	1050	89,0

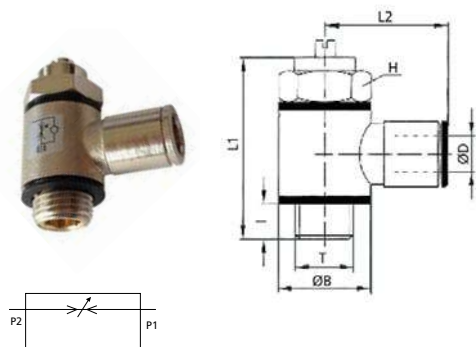


**OTSC-G-D-IN** Unidirectional swivel flow regulator, male BSPP & metric thread for valves, with screwdriver regulation



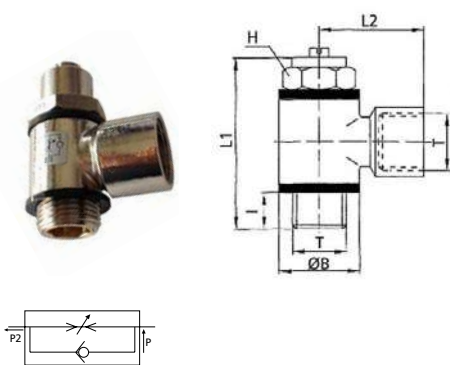
CODE	ØD	T	I	ØB	L1	L2	H	NL/min	g
OTSC04M5DIN	4	M5x0,8	4	9	25,5	20,0	8	45	14
OTSC04G01DIN		G 1/8"	5	14	32,0	21,0	14	310	31
OTSC06M5DIN	6	M5x0,8	4	9	25,5	21,5	8	45	15,5
OTSC06G01DIN		G 1/8"	5	14	32,0	23,0	14	390	33
OTSC06G02DIN		G 1/4"	6	18	37,0	34,0	17	710	55
OTSC08G01DIN	8	G 1/8"	5	14	32,0	24,5	14	390	34
OTSC08G02DIN		G 1/4"	6	18	37,0	26,0	17	810	56
OTSC08G03DIN		G 3/8"	6,5	21	46,0	27,5	20	1050	87
OTSC10G02DIN	10	G 1/4"	6	18	37,0	27,0	17	810	58,5
OTSC10G03DIN		G 3/8"	6,5	21	46,0	28,5	20	1050	88
OTSC12G02DIN	12	G 1/4"	6	18	37,0	38,5	17	810	59
OTSC12G03DIN		G 3/8"	6,5	21	46,0	29,5	20	1050	89

**OTSC-G-D-B** Bidirectional flow regulator, male BSPP & metric thread, with screwdriver regulation



CODE	ØD	T	I	ØB	L1	L2	H	NL/min	g
OTSC04M5DB	4	M5x0,8	4	9	25,5	20,0	8	45	14,0
OTSC04G01DB		G 1/8"	5	14	32,0	21,0	14	310	31,0
OTSC06M5DB	6	M5x0,8	4	9	24,5	21,5	8	45	15,5
OTSC06G01DB		G 1/8"	5	14	32,0	23,0	14	390	33,0
OTSC06G02DB		G 1/4"	6	18	37,0	24,0	17	710	55,0
OTSC08G01DB	8	G 1/8"	5	14	32,0	24,5	14	390	34,0
OTSC08G02DB		G 1/4"	6	18	37,0	26,0	17	810	56,0
OTSC08G03DB		G 3/8"	6,5	21	46,5	27,0	20	1050	87,0
OTSC10G02DB	10	G 1/4"	6	18	37,0	27,0	17	810	58,5

**OTSC-G-DF** Unidirectional swivel flow regulator, M/F BSPP & metric thread for cylinders, with screwdriver regulation

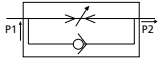
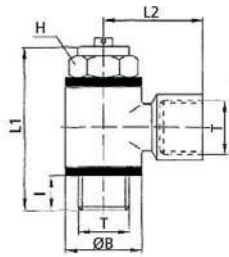


CODE	T	I	ØB	L1	L2	H	NL/min	g
OTSCM5DF	M5x0,8	4	9	25,0	11,5	8	45	10,0
OTSCG01DF	G 1/8"	5	14	32,0	21,0	14	310	34,0
OTSCG02DF	G 1/4"	6	18	37,0	25,5	17	450	64,0
OTSCG03DF	G 3/8"	7	21	46,0	26,0	20	1040	88,0
OTSCG04DF	G 1/2"	10	26	52,5	32,0	26	2200	187,0



**OTSC-G-DF-IN**

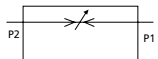
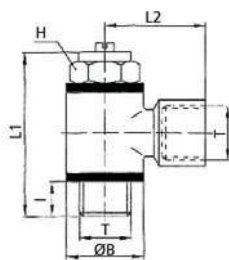
Unidirectional swivel flow regulator, M/F BSPP & metric thread for valves, with screwdriver regulation



CODE	T	I	ØB	L1	L2	H	NL/min	g
OTSCM5DFIN	M5x0,8	4	9	25,0	11,5	8	45	10
OTSCG01DFIN	G 1/8"	5	14	32,0	21,0	14	310	34
OTSCG02DFIN	G 1/4"	6	18	37,0	25,5	14	450	64
OTSCG03DFIN	G 3/8"	7	21	46,0	26,0	20	1040	88
OTSCG04DFIN	G 1/2"	10	26	52,5	32,0	26	2200	187

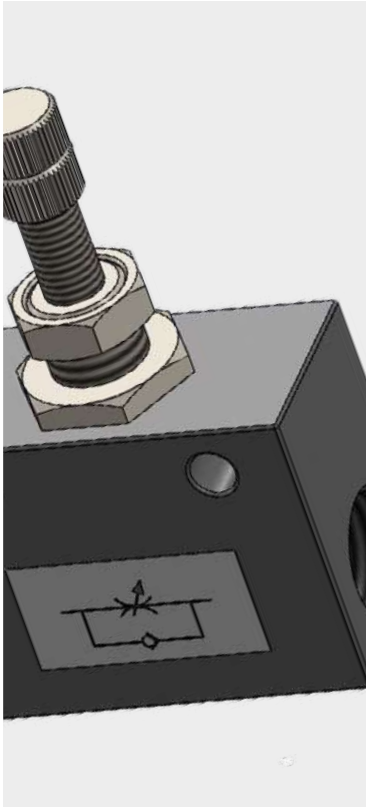
**OTSC-G-DF-B**

Bidirectional swivel flow regulator, M/F BSPP & metric thread, with screwdriver regulation



CODE	T	I	ØB	L1	L2	H	NL/min	g
OTSCM5DFB	M5x0,8	4	9	25,0	11,5	8	45	10,0
OTSCG01DFB	G 1/8"	5	14	32,0	21,0	14	310	34,0
OTSCG02DFB	G 1/4"	6	18	37,0	25,5	17	450	64,0
OTSCG03DFB	G 3/8"	7	21	46,0	26,0	20	1040	88,0
OTSCG04DFB	G 1/2"	10	26	52,5	32,0	26	2200	187,0





0°C ÷ 65°C



ASF-U working pressure:  
from 0,025 to 10 Bar  
ASF-B working pressure:  
from 0 to 10 Bar



Compressed air



Parallel gas BSPP ISO 228  
from G1/8" to G1/2"



Manual flow regulation



Body: Aluminium 11S black anodized  
Seal: NBR  
Handle: Nickel-plated brass  
Regulation screw: Nickel-plated brass

**SILICONE FREE**

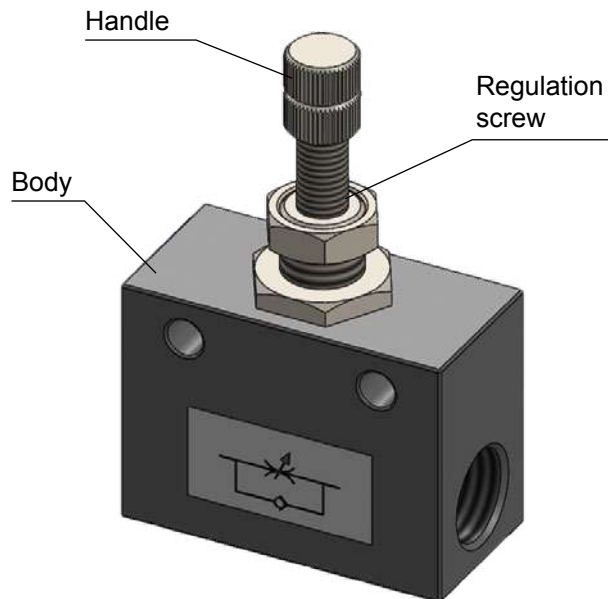


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

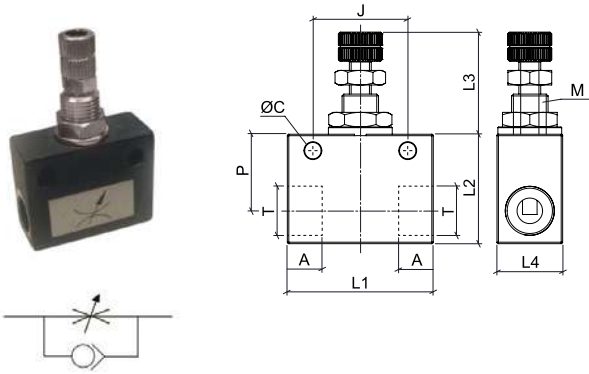
Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



**ASF-U**

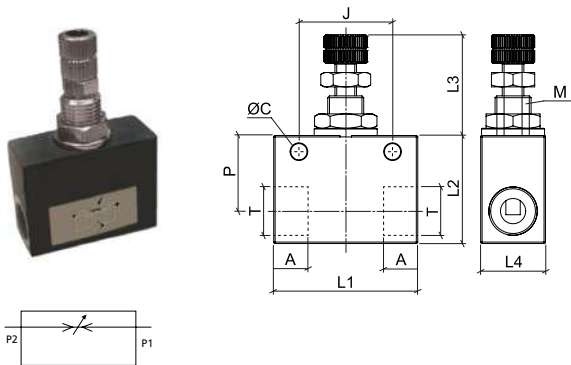
Unidirectional flat flow regulator, bulkhead, female BSPP thread with manual regulation



CODE	T	M	L1	L2	L3 MIN	L3 MAX	L4	A	P	ØC	J	g
ASF-U01N	G 1/8"	10x1	35,0	22,0	24,0	29,0	15,0	8,0	15,0	4,5	24	52,0
ASF-U02N	G 1/4"	10x1	40,0	30,0	26,0	33,0	20,0	9,5	21,0	4,5	24	90,0
ASF-U03N	G 3/8"	15x1	45,0	35,0	34,0	43,0	25,0	10,5	25,0	6,5	30	206,0
ASF-U04N	G 1/2"	15x1	57,0	40,0	34,0	43,0	30,0	12,0	26,0	6,5	30	217,0

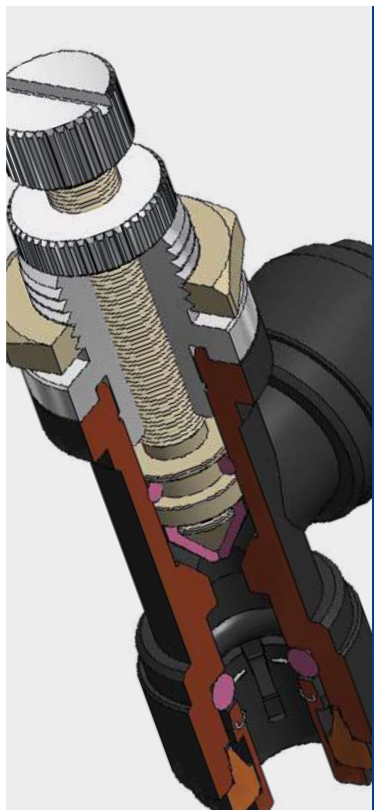
**ASF-B**

Bidirectional flat flow regulator, bulkhead, female BSPP thread, with manual regulation



CODE	T	M	L1	L2	L3 MIN	L3 MAX	L4	A	P	ØC	J	g
ASF-B01N	G 1/8"	10x1	35,0	22,0	24,0	29,0	15,0	8,0	20,0	4,5	24	52,0
ASF-B02N	G 1/4"	10x1	40,0	30,0	26,0	33,0	20,0	9,5	21,0	4,5	24	90,0
ASF-B03N	G 3/8"	15x1	45,0	35,0	34,0	43,0	25,0	10,5	25,0	6,5	30	206,0
ASF-B04N	G 1/2"	15x1	57,0	40,0	34,0	43,0	30,0	12,0	26,0	6,5	30	217,0





**Dry air:** -20°C ÷ 90°C  
**Air & Fluids:** 1°C ÷ 90°C  
 The maximum recommended working temperature for continuous use is 65°C and 90°C for a maximum use of 5 minutes.



**Working pressure:**  
 Up to 10 Bar  
 From 0 to 8 Bar with dry air  
**Negative pressure:**  
 - 0,95 Bar (- 95 Kpa)  
 Data depend from the tubes and temperature



Potable water, beverages, vacuum, compressed air, gases and fluids compatible with construction materials



Polyethylene PE, polyamide PA, PTFE, FEP  
**Tubes made of light metals:**  
 Brass, copper and mild steel  
**Tubes made of hard materials:** See page 84 for information on the use of hard material tubes

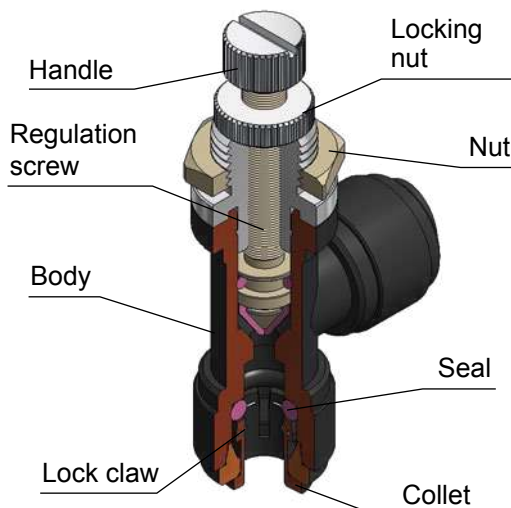


Manual flow regulation and screwdriver

- Body: POM
- Collet: POM
- Lock claw: Acciaio inox AISI 301
- Seal: EPDM suitable for food contact
- Nut & Locking nut: Nickel-plated brass
- Handle: Nickel-plated brass
- Regulation screw: Stainless steel AISI 304



**CONSTRUCTION DETAILS**



Food contact materials EC 1935/2004



D.M. 174/2004



WRAS certified product materials in contact with drinking water



ICIM certified product food contact materials



ICIM certified product water contact materials



ACS



NSF51 / NSF61  
 NSF certificate on behalf of CDC PNEUMATICS CORP.



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

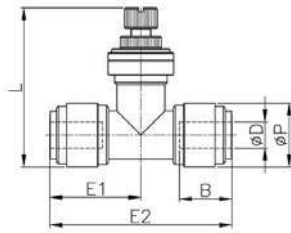
**INSERTION - METRIC TUBE**

Ø TUBE (mm)	6	10
TUBE INSERTION LENGTH (mm)	15,5	20,1



**HSTU**

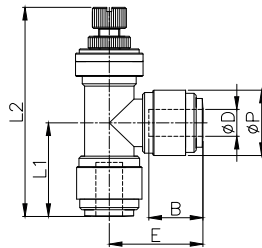
Bidirectional flow regulator in line, with manual regulation



CODE	ØD	ØP	E1	E2	L MIN	L MAX	B	g
HSTU0606B	6	15,5	22,2	44,4	37,7	42,7	16,1	20,6
HSTU1010B	10	20	26,1	52,1	44,0	49,7	19,7	39,4

**HSLU**

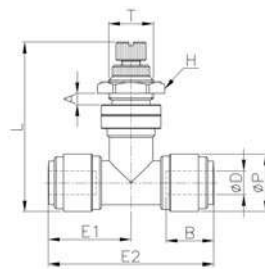
Bidirectional elbow flow regulator, with manual regulation



CODE	ØD	ØP	L1	L2 MIN	L2 MAX	E	B	g
HSLU0606B	6	15,5	22,2	49,6	53,6	22,2	16,1	20,3
HSLU1010B	10	20	25,0	59,0	64,7	26,0	19,7	39,0

**HSTB**

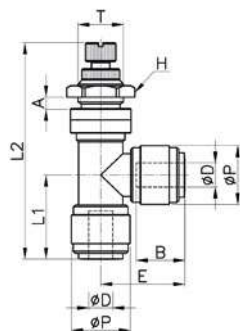
Bidirectional flow regulator, bulkhead, with manual regulation



CODE	ØD	ØP	T	E1	E2	L MIN	L MAX	A	B	H	g
HSTB0606B	6	15,5	M12xP1	22,2	44,4	45,5	50,4	5,0	16,1	16	28,9
HSTB1010B	10	20	M15xP1	26,1	52,1	52,7	58,4	6,0	19,7	19	54,0

**HSLB**

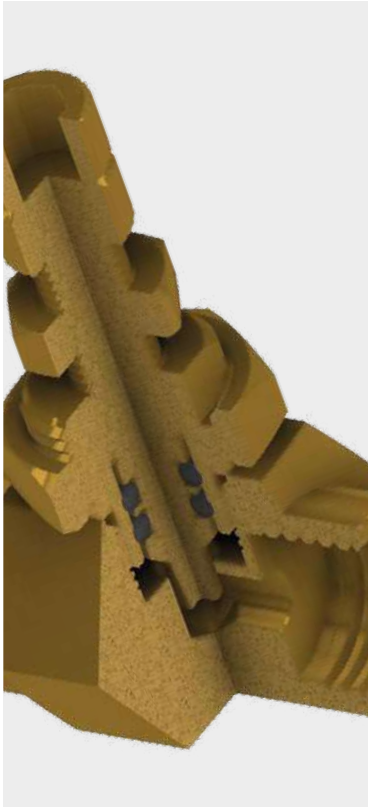
Bidirectional elbow flow regulator, bulkhead, with manual regulation



CODE	ØD	ØP	T	L1	L2 MIN	L2 MAX	E	A	B	H	g
HSLB0606B	6	15,5	M12x1,0	22,2	57,1	61,3	22,2	5,0	16,1	16	28,7
HSLB1010B	10	20	M15x1,0	25,0	67,7	73,4	26,0	6,0	19,7	19	54,0







-20°C ÷ 150°C



Working pressure:  
10 Bar



Compressed air, potable water and fluids suitable with construction materials



Parallel gas BSPP ISO 228  
G1/4"



Manual flow regulation

Body: Yellow brass CW510L  
NSF/ANSI 372 compliant  
Regulation screw: Yellow brass  
CW510L NSF/ANSI 372 compliant  
O-ring: FKM Perox FDA compliant  
Handle: Yellow brass CW510L  
NSF/ANSI 372 compliant

Materials in compliance for food contact -  
EC 1935/2004 and D.M.174/2004



NSF/ANSI 169

COMPONENT



SILICONE FREE



Products in compliance with  
EC Regulation 1907/2006

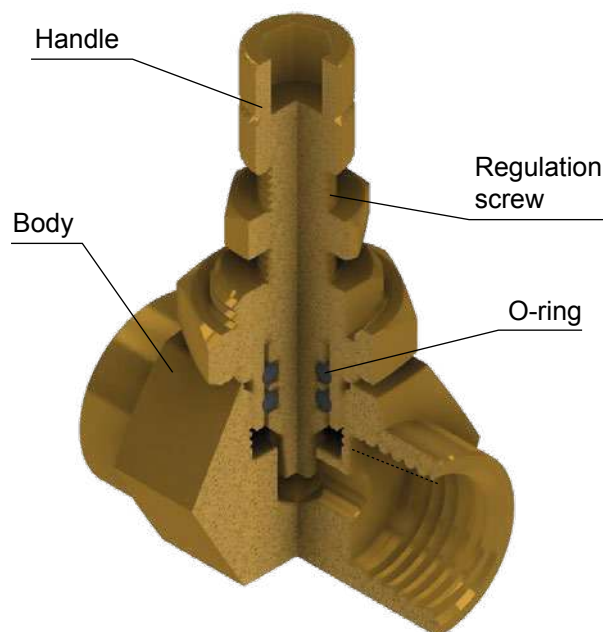


Products in compliance with  
the directive EU 2015/863

### LEAD FREE

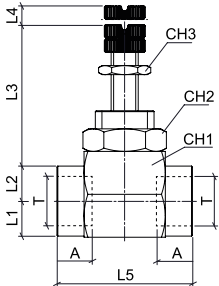
Complies with the lead content requirements for "LEAD FREE" plumbing (U.S. Safe Drinking Water Act).

### CONSTRUCTION DETAILS



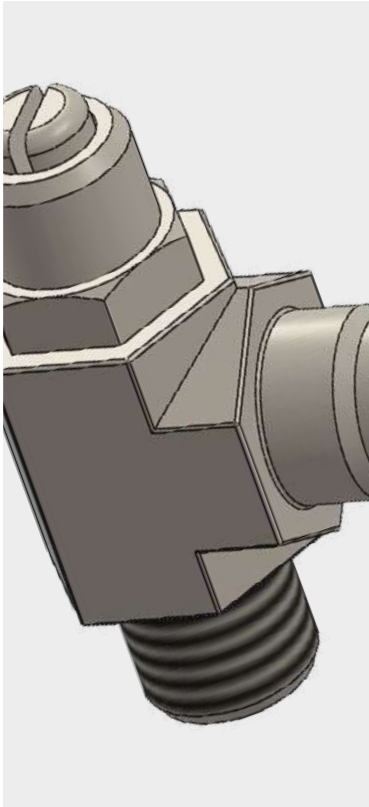
**LFSF-B**

Bidirectional flow regulator, bulkhead, F/F BSPP thread, with manual regulation



CODE	T	L1	L2	L3	L4	L5	A	CH1	CH2	CH3
LFSF-B02	G 1/4"	8,0	10,5	22,5	5,0	30,0	9,5	19	16	10





-20°C ÷ 120°C



Working pressure:  
Up to 10 Bar



Compressed air and fluids  
suitable with construction  
materials



Parallel gas BSPP ISO 228  
from G1/8" to G1/2" with  
O-ring



Polyethylene PE, Polyamide  
PA, PTFE, FEP



Screwdriver flow regulation



Body: Stainless steel AISI 316

Lock claw: Stainless steel AISI 316

Seal: Viton

O-ring: Viton

**SILICONE FREE**

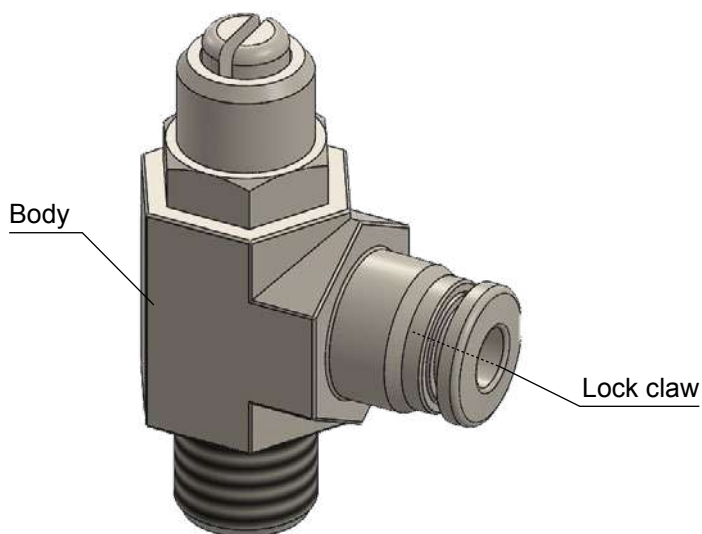


Products in compliance with  
EC Regulation 1907/2006

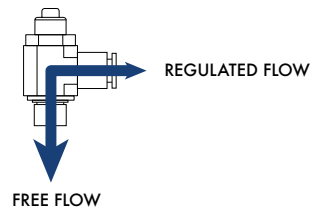
**RoHS3**

Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS

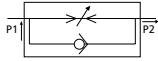
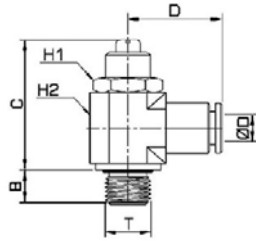


**EXHAUST  
(FOR CYLINDERS)**



**SXSC-D**

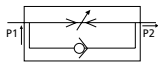
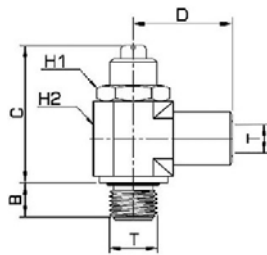
Unidirectional banjo flow regulator, BSPP thread for cylinders, with screwdriver regulation



CODE	ØD	T	B	C	D	E	H1	H2	g
SXSC06G01-D	6	G 1/8"	6	36	24	8	14,3	14,3	44
SXSC06G02-D		G 1/4"	8	42	27	12	17,4	19	84
SXSC08G01-D	8	G 1/8"	6	36	24	8	14,3	16	46
SXSC08G02-D		G 1/4"	8	42	27	12	17,4	19	80
SXSC10G02-D	10	G 1/4"	8	42	27	12	17,4	19	83

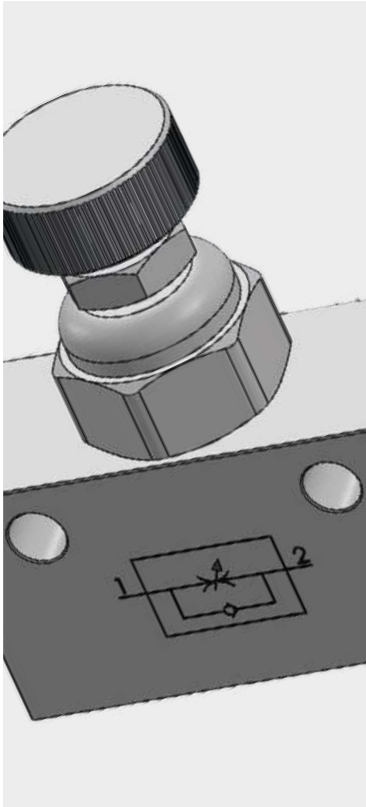
**SXSC-DF**

Unidirectional banjo flow regulator, M/F BSPP thread for cylinders, with screwdriver regulation



CODE	T	B	C	D	E	H1	H2	g
SXSC01-DF	G 1/8"	6	36	20	8	14,3	14,3	42
SXSC02-DF	G 1/4"	8	42	25	12	17,4	19	87
SXSC03-DF	G 3/8"	8	49	28	12	20,6	22	141
SXSC04-DF	G 1/2"	10	60	31	15	24,0	27	213





-10°C ÷ 120°C  
for unidirectional flow regulators  
-25°C ÷ 120°C  
for bidirectional flow regulators



**Working pressure for unidirectional flow regulators:**  
From 1 to 16 Bar  
**Working pressure for bidirectional flow regulators:**  
From 0 to 40 Bar



Air only for unidirectional regulator.  
Air and fluids suitable with the bidirectional regulator materials



- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"  
- NPT  
from N1/4" to N1/2"



Manual flow regulation with locking nut



**Body:** Stainless steel AISI 316  
**Handle:** Stainless steel AISI 316  
**Regulation screw:** Stainless steel AISI 316  
**Locking nut:** Stainless steel AISI 316  
**Seal:** Viton

**SILICONE FREE**

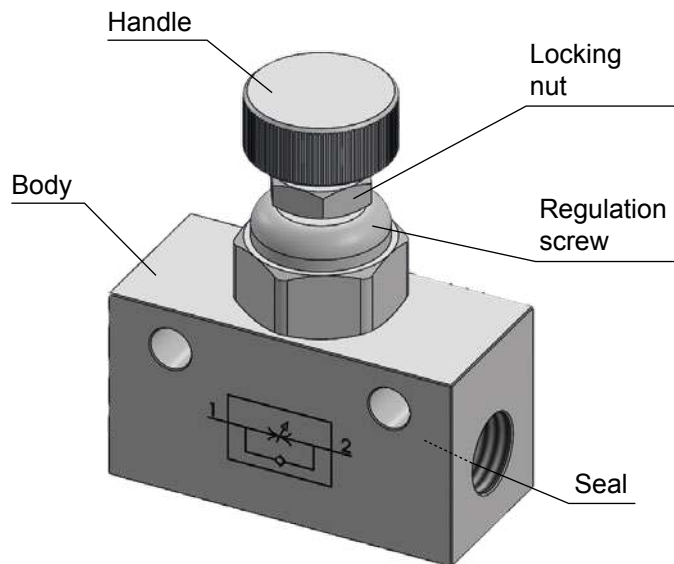


Products in compliance with EC Regulation 1907/2006



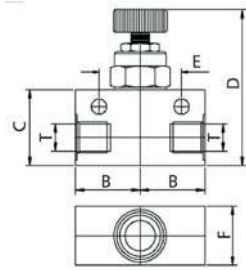
Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**XSFC-U**

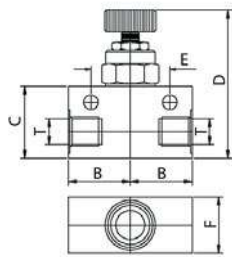
Unidirectional flat flow regulator, female BSPP thread, with manual regulation



CODE	T	B	C	D	E	F	g
XSFC-U01	G 1/8"	16,0	22,0	47,0	22,0	16,0	250
XSFC-U02	G 1/4"	27,5	32,0	56,0	31,8	25,0	350
XSFC-U03	G 3/8"	27,5	32,0	56,0	31,8	25,0	485
XSFC-U04	G 1/2"	32,0	38,0	62,0	35,0	28,0	625

**XSFC-U-N**

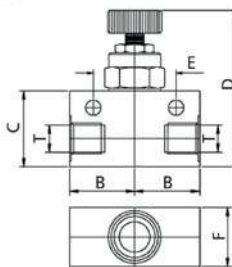
Unidirectional flat flow regulator, female NPT thread, with manual regulation



CODE	T	B	C	D	E	F	g
XSFC-U-N02	N 1/4"	27,5	32,0	56,0	31,8	25,0	350
XSFC-U-N04	N 1/2"	32,0	38,0	62,0	35,0	28,0	625

**XSFC-B**

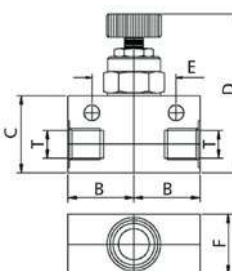
Bidirectional flat flow regulator, female BSPP thread, with manual regulation



CODE	T	B	C	D	E	F	g
XSFC-B01	G 1/8"	16,0	22,0	47,0	22,0	16,0	250
XSFC-B02	G 1/4"	27,5	32,0	56,0	31,8	25,0	350
XSFC-B03	G 3/8"	27,5	32,0	56,0	31,8	25,0	485
XSFC-B04	G 1/2"	32,0	38,0	62,0	35,0	28,0	625

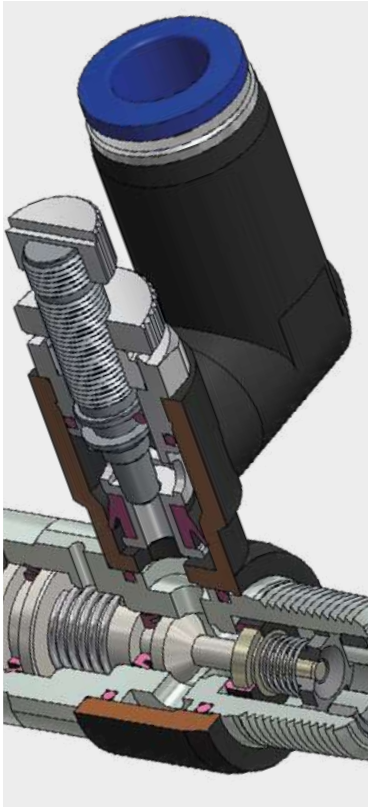
**XSFC-B-N**

Bidirectional flat flow controller, female NPT thread, with manual regulation



CODE	T	B	C	D	E	F	g
XSFC-B-N02	N 1/4"	27,5	32,0	56,0	31,8	25,0	350
XSFC-B-N04	N 1/2"	32,0	38,0	62,0	35,0	28,0	625





0°C ÷ 60°C



**Working pressure:**  
10 Bar

**Negative pressure:**  
- 0,95 Bar (- 95 Kpa)

**Min. pilot pressure:**  
More than 50% of the working pressure (more than 1 Bar)



Compressed air & vacuum  
(do not use with water)



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon  
- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"



Polyamide PA, Polyurethane PU



Manual flow regulation



**Body:** Nickel-plated brass and PBT

**Collet:** POM

**Collar:** Zinc

**Lock claw:** Stainless steel AISI 301

**Back ring:** POM

**Seal:** NBR

**O-ring:** NBR

**Handle:** Nickel-plated brass

**Lock nut:** Nickel-plated brass

**SILICONE FREE**

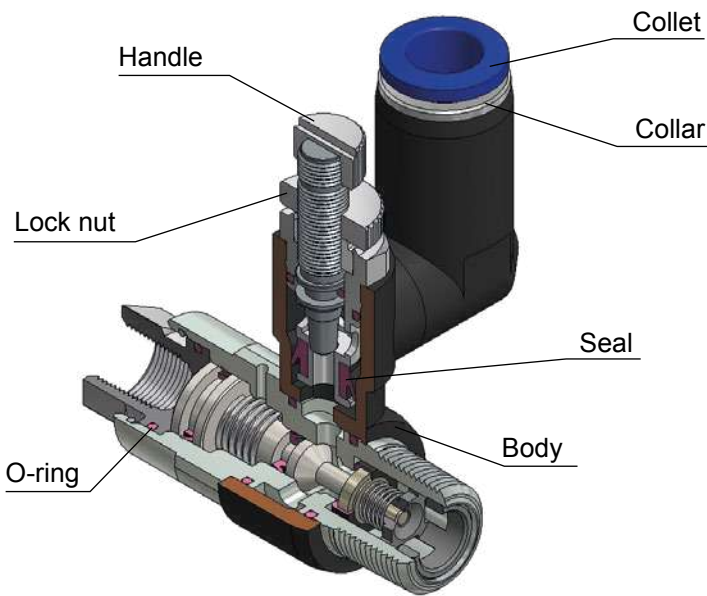


Products in compliance with EC Regulation 1907/2006

**RoHS3**

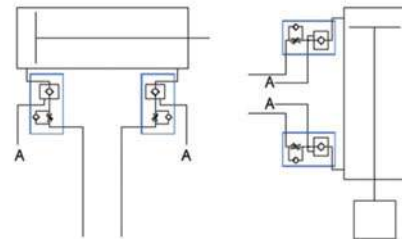
Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



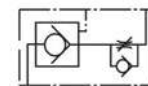
**APPLICATIONS EXAMPLES**

Application examples for temporary stops and emergency stops.



Assembly in pairs on cylinders that ensure the stem block in case of absence of air and at the same time the flow regulation.

Offer possibility to obtain intermitted positions even with applied loads



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	10	15	25	40

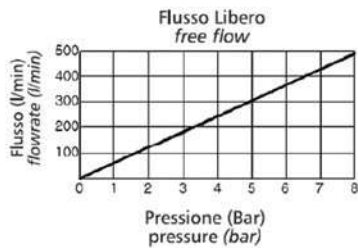
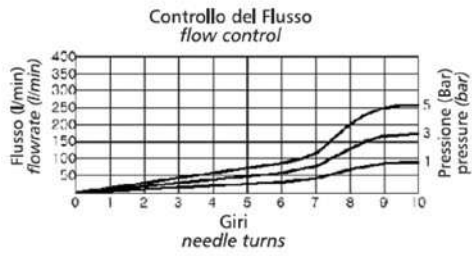


**FEATURES**

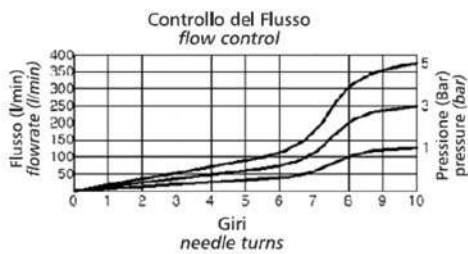
Double functions flow regulators have an integrated unidirectional valve for pneumatic block.

**FLOW CHARTS**

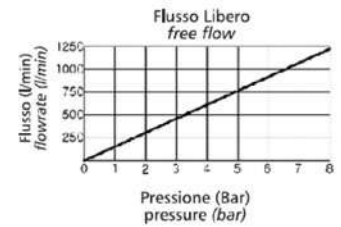
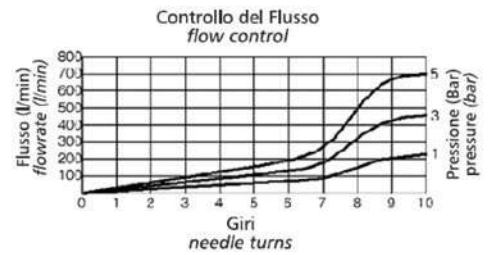
**PVSC 06-01  
PVSC 08-01**



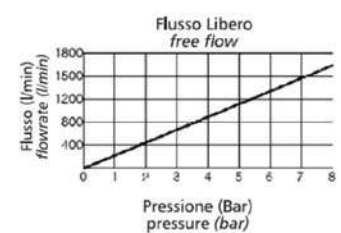
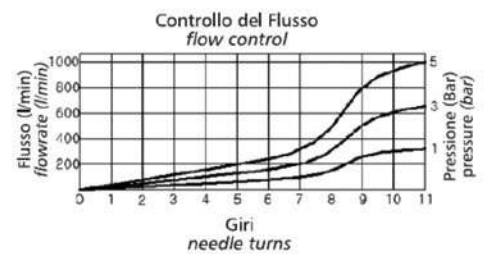
**PVSC 06-02  
PVSC 08-02**



**PVSC 08-03  
PVSC 10-03  
PVSC 12-03**



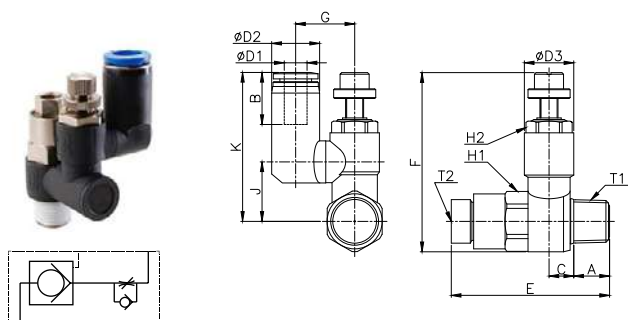
**PVSC 10-04  
PVSC 12-04**





**PVSC-R**

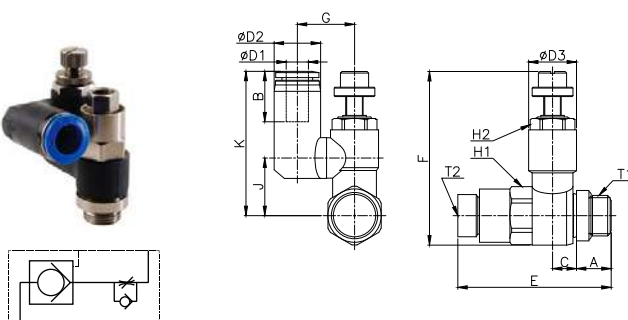
Flow regulator with pilot check valve, BSPT thread, with manual regulation



CODE	ØD	T1	T2	A	B	ØD1	ØD2	ØD3	C	E	F MIN	F MAX	G	J	K	H1	H2	g
PVSC06R01	6	R 1/8"	M5x0,8	8,0	17,0	6,0	12,6	12,1	8,0	35,4	43,6	48,4	16,1	14,9	38,9	12	10	30,4
PVSC06R02		R 1/4"	R 1/8"	10,5	17,0	6,0	12,6	15,4	7,6	42,0	55,4	60,4	19,4	18,4	44,3	17	13	63,5
PVSC08R01	8	R 1/8"	M5x0,8	8,0	19,1	8,0	14,9	12,1	8,0	35,4	43,6	48,4	17,3	14,9	39,8	12	10	33,6
PVSC08R02		R 1/4"	R 1/8"	10,5	19,1	8,0	14,9	15,4	7,6	42,0	55,4	60,4	18,4	18,4	46,7	17	13	66,3
PVSC08R03		R 3/8"	R 1/8"	11,4	19,1	8,0	15,1	20,3	9,6	49,7	58,4	63,4	23,4	21,4	50,7	19	17	101,3
PVSC10R02	10	R 1/4"	R 1/8"	10,5	20,2	10,0	17,6	15,4	7,6	42,0	55,4	60,4	19,2	18,4	49,1	17	13	70,2
PVSC10R03		R 3/8"	R 1/8"	11,4	20,2	10,0	17,6	20,3	9,6	49,7	58,4	63,4	23,4	21,4	53,0	19	17	105,2
PVSC10R04		R 1/2"	R 1/4"	14,4	20,2	10,0	17,6	27,3	12,8	59,8	72,0	78,0	26,4	31,3	64,4	24	23	203,3
PVSC12R03	12	R 3/8"	R 1/8"	11,4	22,7	12,0	20,6	20,3	9,6	49,7	58,4	63,4	23,4	21,4	54,8	19	17	110,0
PVSC12R04		R 1/2"	R 1/4"	14,4	22,7	12,0	20,6	27,3	12,8	59,8	72,0	78,0	26,4	31,3	67,2	24	23	235,0

**PVSC-G**

Flow regulator with pilot check valve, BSPP thread, with manual regulation



CODE	ØD	T1	T2	A	B	ØD1	ØD2	ØD3	C	E	F MIN	F MAX	G	J	K	H1	H2	g
PVSC06G01	6	G 1/8"	M5x0,8	5,0	17,0	6,0	12,6	12,1	11,0	35,4	43,6	48,4	16,1	14,9	38,9	12	10	38,9
PVSC06G02		G 1/4"	G 1/8"	6,5	17,0	6,0	12,6	15,4	11,6	42,0	55,4	60,4	19,4	18,4	44,3	17	13	75,7
PVSC08G01	8	G 1/8"	M5x0,8	5,0	19,1	8,0	14,9	12,1	11,0	35,4	43,6	48,4	17,3	14,9	39,8	12	10	40,7
PVSC08G02		G 1/4"	G 1/8"	6,5	19,1	8,0	14,9	15,4	11,6	42,0	55,4	60,4	18,4	18,4	46,7	17	13	77,6
PVSC08G03		G 3/8"	G 1/8"	7,0	19,1	8,0	15,1	20,3	14,0	49,7	58,4	63,4	23,4	21,4	50,7	19	17	129,3
PVSC10G02	10	G 1/4"	G 1/8"	6,5	20,2	10,0	17,6	15,4	11,6	42,0	55,4	60,4	19,2	18,4	49,1	17	13	70,2
PVSC10G03		G 3/8"	G 1/8"	7,0	20,2	10,0	17,6	20,3	14,0	49,7	58,4	63,4	23,4	21,4	53,0	19	17	131,2
PVSC10G04		G 1/2"	G 1/4"	8,5	20,2	10,0	17,6	27,3	18,7	59,8	72,0	78,0	26,4	31,3	64,4	24	23	240,6
PVSC12G03	12	G 3/8"	G 1/8"	7,0	22,7	12,0	20,6	20,3	14,0	49,7	58,4	63,4	23,4	21,4	54,8	19	17	135,0
PVSC12G04		G 1/2"	G 1/4"	8,5	22,7	12,0	20,6	27,3	18,7	59,8	72,0	78,0	26,4	31,3	67,2	24	23	244,6



 **TierreGroup**<sup>®</sup>  
Always a fittings solution



**FOLLOW US!**



**FUNCTION  
FITTINGS  
EXHAUST  
VALVES**

**PLUS**

**WIDE RANGES OF MATERIALS AND  
MODELS DESIGNED FOR DIFFERENT  
USES IN AUTOMOTION**

---

**OPTIMISED EXHAUST SYSTEM**

---

**FLAME RESISTANT (MEV&ESC  
SERIES)**

---

**TECNOPOLYMER VERSION ARE  
DUAL-PURPOSE, WITH FLOW  
REGULATOR AND INTEGRATED  
SILENCER (ESC-R & ESC-G)**



**EXHAUST VALVES / M SERIES**



p. 358 / **MEVU**



p. 358 / **MEVS**

**EXHAUST VALVES WITH FLOW REGULATOR / TECHNOPOLYMER**



p. 360 / **ESC-M**



p. 362 / **ESC-R**



p. 362 / **ESC-G**

**EXHAUST VALVES / BRASS**



p. 364 / **1100**



p. 364 / **1100-N**



p. 364 / **1101**



p. 364 / **1102**

**EXHAUST VALVES / STAINLESS STEEL AISI 316**

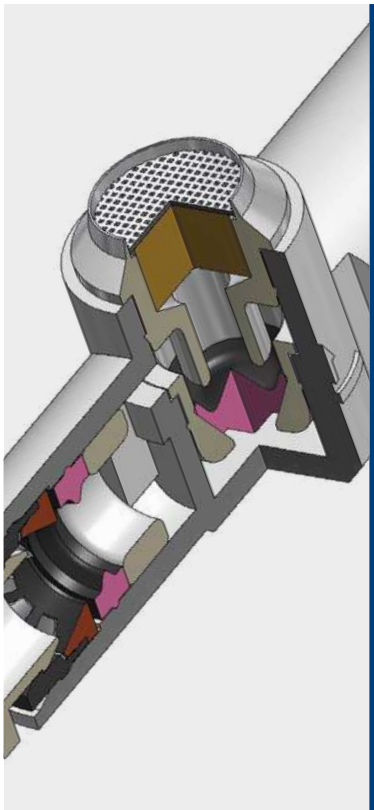


p. 366 / **1400**



p. 366 / **1400N**





-5°C ÷ 60°C



Working pressure:  
10 Bar  
Min. working pressure:  
1 Bar

Pressure peaks do not exceed the max working pressure



Compressed air



Polyamide PA,  
polyurethane PU,  
polyethylene PE

- Body: PA66
- Mesh: Stainless steel AISI 301
- Back ring: PA66
- Seal: NBR
- Lock claw: Stainless steel AISI 301
- Collar: PA66
- Seat ring: Brass
- Holder: POM
- Collet: PA66
- Filter: PE
- Housing: Brass
- Valve: NBR

**SILICONE FREE**

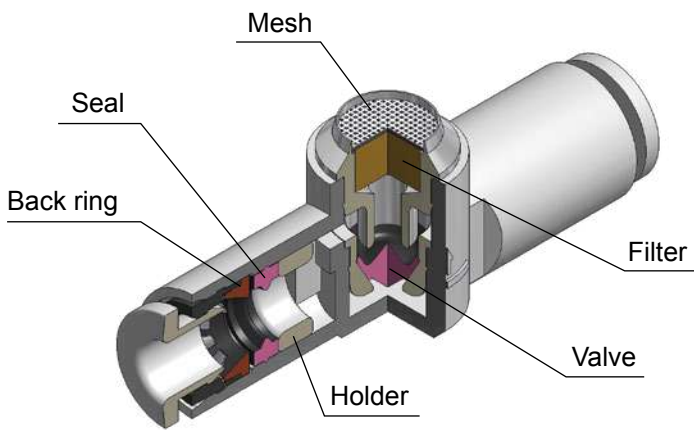


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**

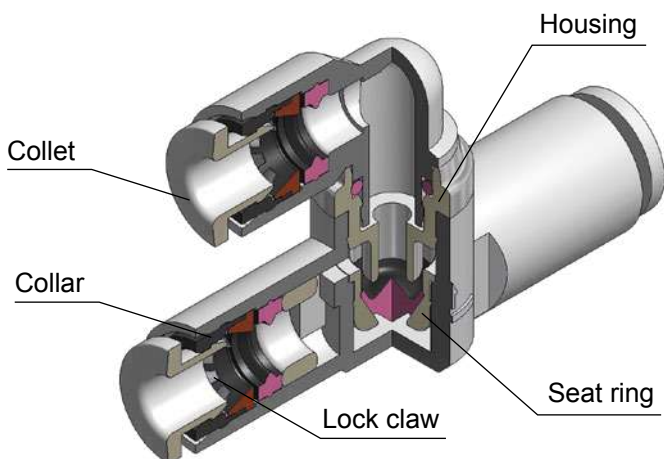


**PLUS - MEVU**

Silenced exhaust to the atmosphere through the incorporated silencer.

Easy assembly thanks to push-in fittings incorporated.

Suitable for multiple applications thanks to light weight and compact size.



**PLUS - MEVS**

Connection exhaust to be conveyed.

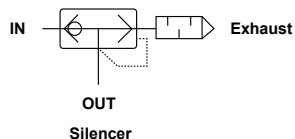
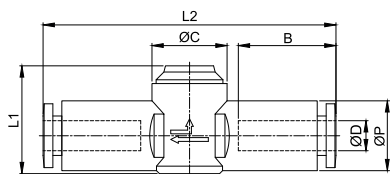
Easy assembly thanks to push-in fittings incorporated.

Suitable for multiple applications thanks to the light weight and compact size.



**MEVU**

Quick exhaust valve with silencer



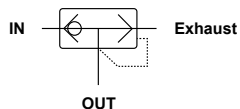
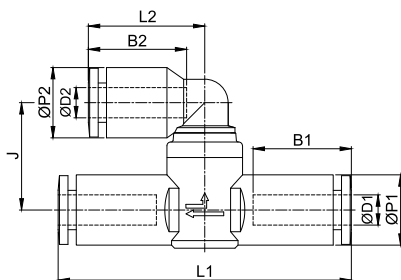
CODE	ØD	ØP	ØC	B	L1	L2	g
MEVU04W	4	9,3	10	13,0	14,4	39,0	4,5
MEVU06W	6	11,5	10	14,5	15,9	41,7	5,5

Section in mm<sup>2</sup>

CODE	Ø TUBE (mm)	IN - OUT	OUT - EXHAUST
MEVU04W	4	1,7	2,5
MEVU06W	6	2,4	2,7

**MEVS**

Quick exhaust valve with push-in fittings

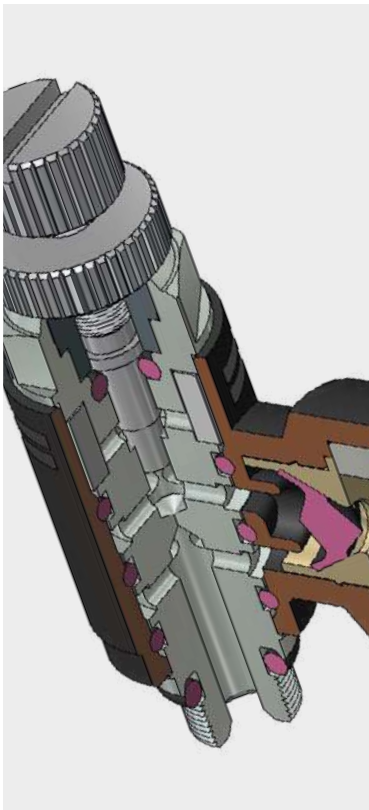


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	J	g
MEVS04W	4	4	13,0	13,0	9,3	9,3	39,0	15,4	14,2	5,9
MEVS06W	6	6	14,5	14,5	11,5	11,5	41,7	17,3	15,6	7,5

Section in mm<sup>2</sup>

CODE	Ø TUBE (mm)	IN - OUT	OUT - EXHAUST
MEVS04W	4	1,7	2,5
MEVS06W	6	2,4	2,7





0°C ÷ 60°C



Working pressure:  
10 Bar



Compressed air  
(do not use with water)



Metric ISO 262  
M3 and M5



Polyamide PA, Polyurethane PU



Manual flow regulation

Body: Nickel-plated brass and PBT

Collet: POM

Collar: Zinc

Lock claw: Stainless steel AISI 301

Back ring: POM

Seal: NBR

O-ring: NBR

Handle: Brass

Lock nut: Brass

Valve: HNBR

Filter/Silencer: PE

**SILICONE FREE**

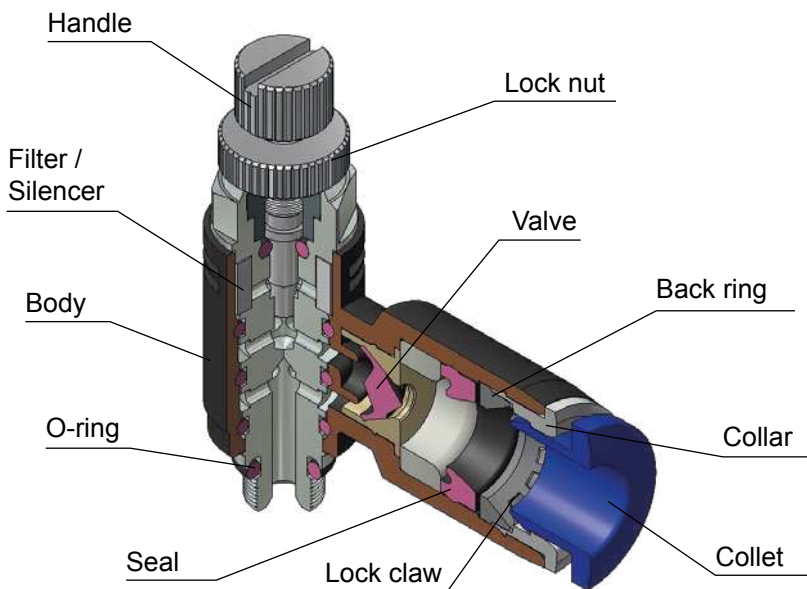


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



## PLUS

Quick exhaust valve with flow regulator.

High-speed cylinder operation.

Complete with silencer and flow regulator.

Combines three pneumatic functions in one compact body (quick exhaust, flow regulator and silencer).

Flame resistant (UL 94 V-0).

## TIGHTENING TORQUE

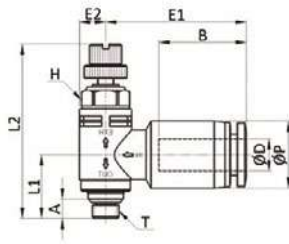
METRIC ISO 262

THREAD	M3x0,5	M5x0,8
Nm	1,5	1,5

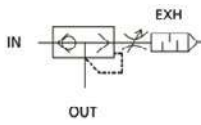


**ESC-M**

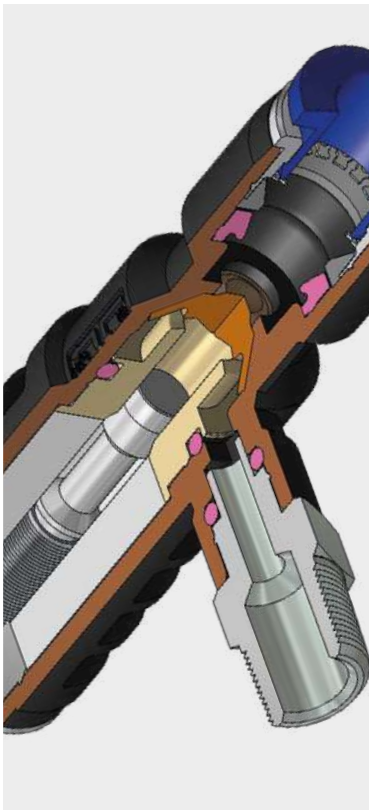
Quick exhaust valve, metric thread, with manual flow regulation



CODE	ØD	ØP	T	L1	L2 MIN	L2 MAX	E1	E2	A	B	H	g
ESC04M3	4	10,3	M3x0,5	11,9	32,2	34,7	25,8	4,9	3,0	14,8	8	11,4
ESC04M5		10,3	M5x0,8	11,9	32,2	34,7	25,8	4,9	3,6	14,8	8	11,3
ESC06M5	6	12,5	M5x0,8	11,9	32,2	34,7	26,4	4,9	3,6	16,5	8	12,3







0°C ÷ 60°C



Working pressure:  
10 Bar



Compressed  
(do not use with water)



Manual flow regulation



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon  
- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"



Polyamide PA, Polyurethane PU

**PLUS**

Quick exhaust valve with flow regulator.  
High-speed cylinder operation.  
Complete with silencer and flow regulator.  
Flame resistant (UL 94 V-0).

- Body: Nickel-plated brass and PBT
- Collet: POM
- Collar: Zinc
- Lock claw: Stainless steel AISI 301
- Back ring: POM
- Seal: NBR
- O-ring: NBR
- Handle: Nickel-plated brass
- Locking nut: Nickel-plated brass
- Valve: Polyurethane
- Filter/Silencer: PE



SILICONE FREE

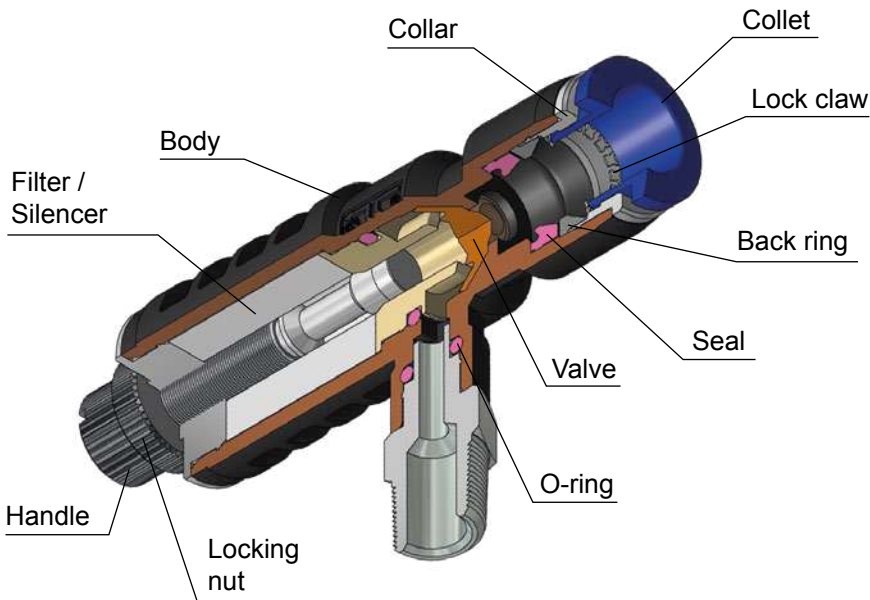


Products in compliance with  
EC Regulation 1907/2006



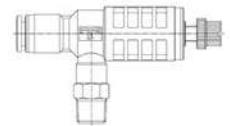
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**

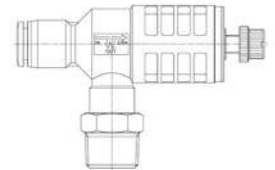


**SIZES ESC-R - ESC-G**

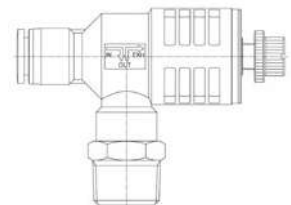
S  
small



M  
medium



L  
large



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

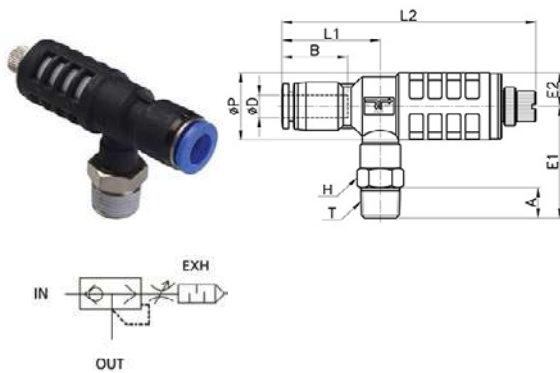
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	10	15	25	40



**ESC-R**

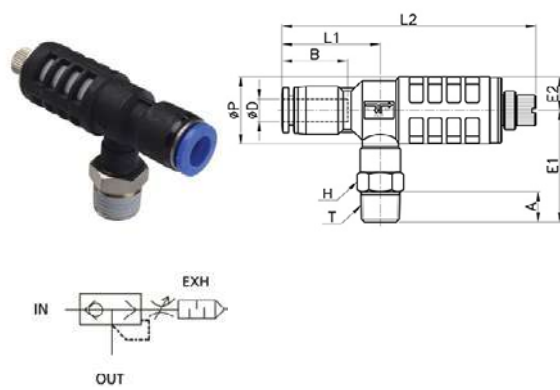
Quick exhaust valve, BSPT thread, with manual flow regulator



CODE	ØD	ØP	T	L1	L2 MIN	L2 MAX	E1	E2	A	B	H	g	
ESC06R01-S	6	12,5	R 1/8"	24,5	63,3	72,0	29,3	8,8	8,0	16,5	10	21,5	
ESC06R02-S		12,5	R 1/4"	24,5	63,3	72,0	31,3	8,8	10,0	16,5	14	26,3	
ESC08R01-S	8	14,8	R 1/8"	26,5	65,1	71,7	29,3	8,8	8,0	18,3	10	22,5	
ESC08R02-S		14,8	R 1/4"	26,5	65,1	71,7	31,3	8,8	10,0	18,3	14	27,4	
ESC08R01-M		14,8	R 1/8"	29,8	73,2	82,3	34,5	12,0	8,0	18,3	14	40,0	
ESC08R02-M	8	14,8	R 1/4"	29,8	73,2	82,3	37,5	12,0	10,0	18,3	14	42,9	
ESC08R03-M		14,8	R 3/8"	29,8	73,2	82,3	38,5	12,0	11,0	18,3	17	48,5	
ESC10R01-M		10	17,5	R 1/8"	31,7	75,0	84,1	34,5	12,0	8,0	20,1	14	41,7
ESC10R02-M	17,5		R 1/4"	31,7	75,0	84,1	37,5	12,0	10,0	20,1	14	44,7	
ESC10R03-M	17,5		R 3/8"	31,7	75,0	84,1	38,5	12,0	11,0	20,1	17	50,2	
ESC10R02-L	17,5		R 1/4"	34,4	80,1	88,6	42,4	15,0	10,0	20,1	19	72,5	
ESC10R03-L	17,5		R 3/8"	34,4	80,1	88,6	43,4	15,0	11,0	20,1	19	76,5	
ESC10R04-L	10	17,5	R 1/2"	34,4	80,1	88,6	46,4	15,0	14,0	20,1	21	85,2	
ESC12R02-L		12	20,5	R 1/4"	37,1	83,1	91,6	42,4	15,0	10,0	23,1	19	75,2
ESC12R03-L			20,5	R 3/8"	37,1	83,1	91,6	43,4	15,0	11,0	23,1	19	79,2
ESC12R04-L			20,5	R 1/2"	37,1	83,1	91,6	46,4	15,0	14,0	23,1	21	88,1

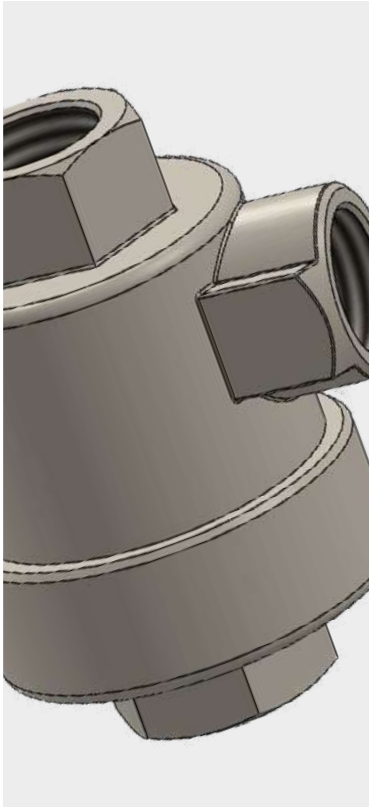
**ESC-G**

Quick exhaust valve, BSPP thread, with manual flow regulator



CODE	ØD	ØP	T	L1	L2 MIN	L2 MAX	E1	E2	A	B	H	g	
ESC06G01-S	6	12,5	G 1/8"	24,5	63,3	72,0	26,3	8,8	5,0	16,5	14	24,5	
ESC06G02-S		12,5	G 1/4"	24,5	63,3	72,0	28,3	8,8	6,5	16,5	17	28,3	
ESC08G01-S	8	14,8	G 1/8"	26,5	65,1	71,7	26,3	8,8	5,0	18,3	14	25,5	
ESC08G02-S		14,8	G 1/4"	26,5	65,1	71,7	28,3	8,8	6,5	18,3	17	29,4	
ESC08G01-M		14,8	G 1/8"	29,8	73,2	82,3	31,5	12,0	5,0	18,3	14	38,0	
ESC08G02-M	8	14,8	G 1/4"	29,8	73,2	82,3	33,5	12,0	6,5	18,3	17	41,9	
ESC08G03-M		14,8	G 3/8"	29,8	73,2	82,3	33,0	12,0	6,5	18,3	20	46,5	
ESC10G01-M		10	17,5	G 1/8"	31,7	75,0	84,1	31,5	12,0	5,0	20,1	14	39,7
ESC10G02-M	17,5		G 1/4"	31,7	75,0	84,1	33,5	12,0	6,5	20,1	17	43,7	
ESC10G03-M	17,5		G 3/8"	31,7	75,0	84,1	33,0	12,0	6,5	20,1	20	48,2	
ESC10G02-L	17,5		G 1/4"	34,4	80,1	88,6	38,4	15,0	6,5	20,1	19	68,5	
ESC10G03-L	17,5		G 3/8"	34,4	80,1	88,6	37,9	15,0	6,5	20,1	20	71,5	
ESC10G04-L	10	17,5	G 1/2"	34,4	80,1	88,6	39,4	15,0	8,0	20,1	24	78,2	
ESC12G02-L		12	20,5	G 1/4"	37,1	83,1	91,6	38,4	15,0	6,5	23,1	19	71,2
ESC12G03-L			20,5	G 3/8"	37,1	83,1	91,6	37,9	15,0	6,5	23,1	20	74,2
ESC12G04-L			20,5	G 1/2"	37,1	83,1	91,6	39,4	15,0	8,0	23,1	24	81,1





-20°C ÷ 80°C



Working pressure:  
from 0,5 to 10 Bar



Compressed air



- Parallel gas BSPP ISO 228  
from G1/8" to G1"
- Metric ISO 262  
M5
- NPT  
from N1/8" to N1/2"

Body: Nickel-plated brass  
UNI EN 12165 CW617N



Membrane:  
- NBR for M5 thread  
- Polyurethane elastomer for all other  
sizes

Seal: Nylon

#### AVAILABILITY

Available on request with Viton membrane  
from metric thread M5 to 1/2" BSPP thread

**SILICONE FREE**

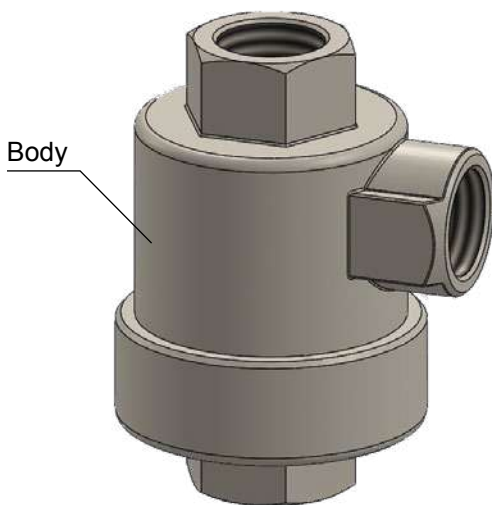


Products in compliance with  
EC Regulation 1907/2006

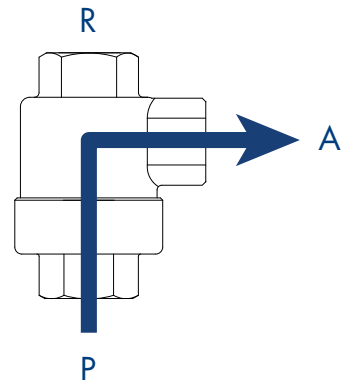
**RoHS3**

Products in compliance with  
the directive EU 2015/863

#### CONSTRUCTION DETAILS



#### FLOW EXHAUST



This valve allows the air to be quickly expelled and consequently speeds up the working time.

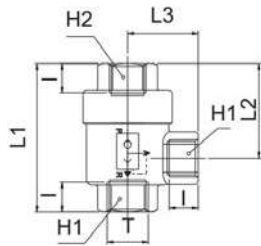
The air entering "P" displaces the membrane closing the outlet "R" and exits from outlet "A".

As soon as we remove the pressure coming from "P", the air at outlet "A" closes the outlet "P" due to the pressure difference, exiting quickly from exhaust outlet "R" where it is recommended to mount a silencer.



**1100**

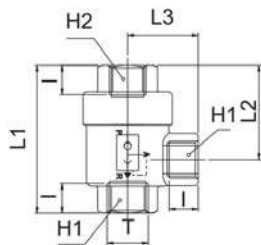
Quick exhaust valve, BSPP & metric thread



CODE	T	I	L1	L2	L3	H1	H2	g
1100TRM5	M5x0,8	4,5	24,8	15,6	10,5	10	10	27
1100TR18	G 1/8"	8,0	42,0	28,0	19,5	14	14	84
1100TR14	G 1/4"	11,0	53,0	34,5	25,0	19	19	146
1100TR38	G 3/8"	12,0	55,0	36,0	26,0	21	21	150
1100TR12	G 1/2"	14,0	71,0	44,0	35,0	26	26	314
1100TR34	G 3/4"	18,0	86,0	52,0	38,5	32	32	450
1100TR1	G 1"	19,0	94,0	56,0	42,0	38	38	525

**1100-N**

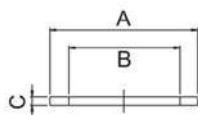
Quick exhaust valve, NPT thread



CODE	T	I	L1	L2	L3	H1	H2	g
1100TRN18	N 1/8"	8,0	42,0	28,0	19,5	14	14	84
1100TRN14	N 1/4"	11,0	53,0	34,5	25,0	19	19	146
1100TRN38	N 3/8"	12,0	55,0	36,0	26,0	21	21	150
1100TRN12	N 1/2"	14,0	71,0	44,0	35,0	26	26	314

**1101**

Nylon body seal



CODE	FOR VALVE	A	B	C	g
1101TRM5	M5x0,8	17,0	12,4	0,8	0,080
1101TR18	1/8"	23,8	20,0	1,0	0,014
1101TR14	1/4"	28,5	24,0	1,0	0,018
1101TR38	3/8"	28,5	24,0	1,0	0,018
1101TR12	1/2"	38,6	32,0	1,5	0,030
1101TR34	3/4"	45,0	38,0	1,5	0,760
1101TR1	1"	45,0	38,0	1,5	0,760

**1102**

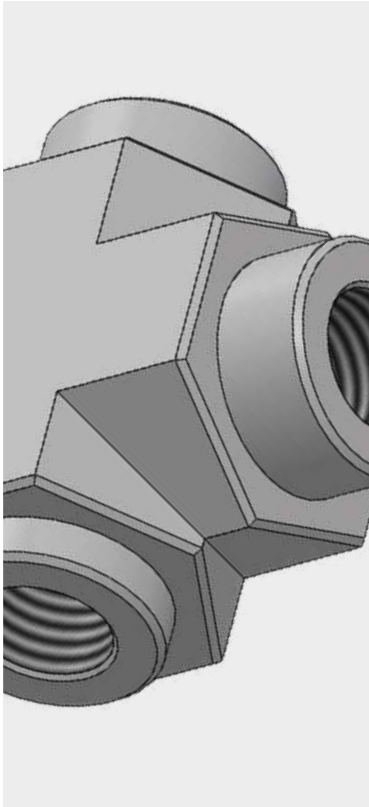
Membrane for valve in polyurethane elastomer



CODE	FOR VALVE	A	B	g
* 1102TRM5	M5x0,8	13,5	4,5	0,4
1102TR18	1/8"	20,5	5,0	1,1
1102TR14	1/4"	25,5	5,8	1,9
1102TR38	3/8"	25,5	5,8	1,9
1102TR12	1/2"	35,5	8,2	2,5
1102TR34	3/4"	40,5	9,0	7,0
1102TR1	1"	40,5	9,0	7,0

\* Membrane in NBR





**VITON:**  
-20°C ÷ 120°C

**POLYURETHANE:**  
-20°C ÷ 82°C

**Working pressure:**  
from 0 to 40 Bar

**Compressed air**

- Parallel gas BSPP ISO 228  
from G1/8" to G1"

- NPT  
N1/4", N1/2", N1"

**Body:** Stainless steel AISI 316

**Seal:**  
1/8" and 1/4" in Viton  
from 3/8" to 1" in Polyurethane

**SILICONE FREE**

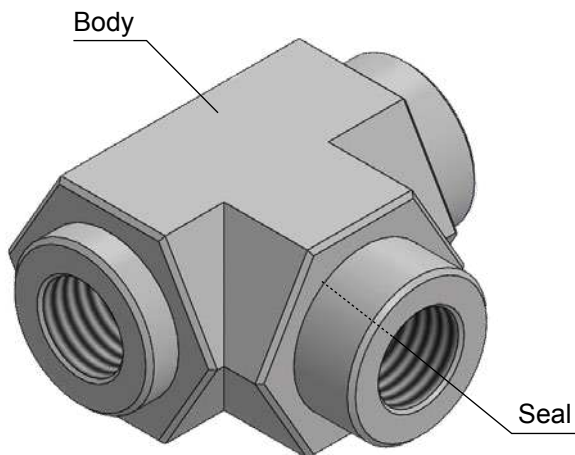


Products in compliance with EC Regulation 1907/2006

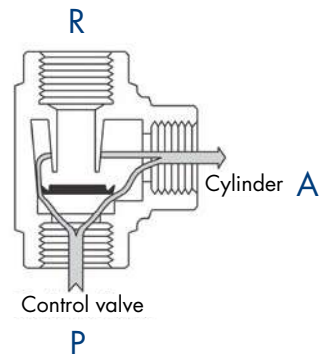
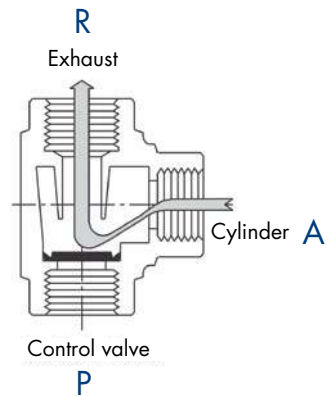
**RoHS3**

Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**

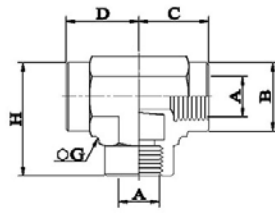


**FLOW DIRECTION**



**1400**

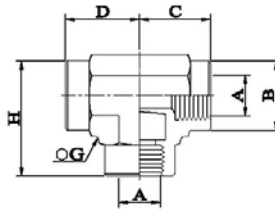
Quick exhaust valve, BSPP thread



CODE	A	B	C	D	H	G	g
1400TR18	G 1/8"	17	21	16,5	31,5	22	125,0
1400TR14	G 1/4"	17	21	16,5	31,5	22	155,0
1400TR38	G 3/8"	22	25,5	19	37	27	202,0
1400TR12	G 1/2"	27	31	23	46	32	305,0
1400TR34	G 3/4"	38	44	35	46	46	915,0
1400TR1	G 1"	38	44	35	46	46	1380,0

**1400-N**

Quick exhaust valve, NPT thread



CODE	T	I	L1	L2	L3	H1	g
1400TRN14	N 1/4"	17	21	16,5	31,5	22	155,0
1400TRN12	N 1/2"	27	31	23	46	32	305,0
1400TRN1	N 1"	38	44	35	46	46	1380,0



**FUNCTION  
FITTINGS  
STOP  
FITTINGS**

**PLUS**

**IDEAL FOR PERIODIC MAINTENANCE  
OF EQUIPMENT**

---

**IMPROVES THE SECURITY OF THE  
SYSTEM**

---

**COMPACT SIZE AND WIDE CHOISE  
OF SHAPES**

---

**AUTOMATICALLY CLOSES THE  
CIRCUIT WHEN THE TUBE IS  
DISCONNECTED**





p. 370 / **SPC-R**



p. 370 / **SPC-G**



p. 370 / **SPUM**



p. 371 / **SPL-R**



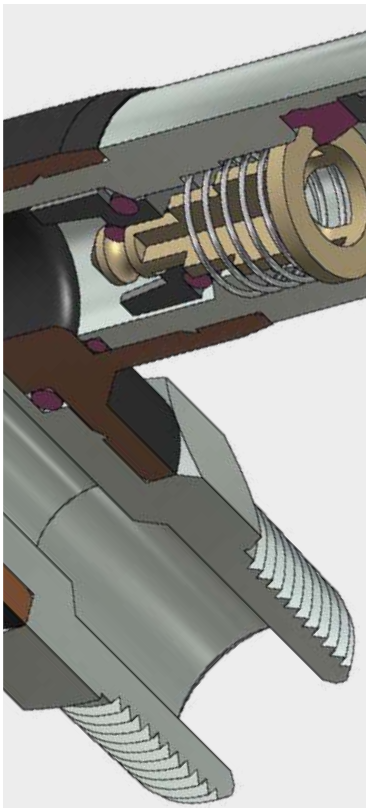
p. 371 / **SPL-G**



p. 371 / **SPU**







0°C ÷ 60°C



Working pressure:  
from 0 to 10 Bar



Compressed air



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon
- Parallel gas BSPP ISO 228  
from G1/8" to G1/2" with o-ring
- Metric ISO 262  
M5 and M6



Polyamide PA, polyurethane PU



- Body: Nickel-plated brass and PBT
- Collet: POM
- Collar: Zinc
- Lock claw: Stainless steel AISI 301
- Back ring: POM
- Seal: NBR
- Spring: Stainless steel AISI 301
- Valve: POM

**SILICONE FREE**

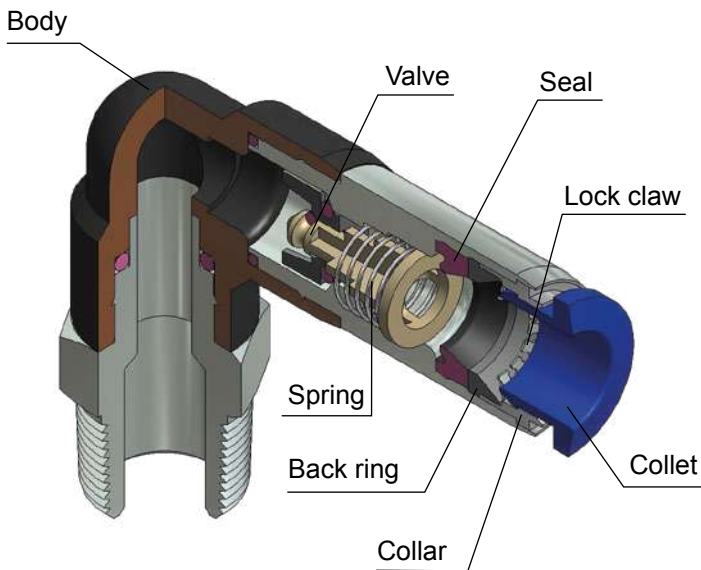


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

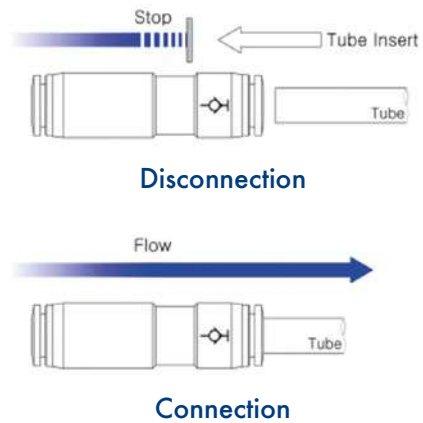
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**STOP FITTINGS**

Stop fittings are designed to facilitate maintenance operations. They stop the flow of fluid when disconnected from the tube, and re-establish the flow of fluid in a bidirectional sense when reconnected.



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

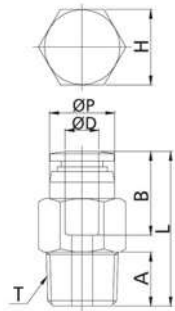
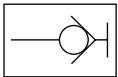
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M6x1	1/8"	1/4"	3/8"	1/2"
Nm	1,5	2,3	10	15	25	40



**SPC-R**

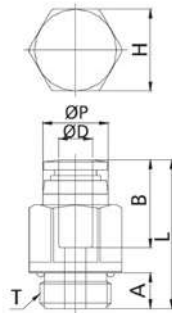
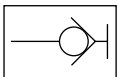
Male connector stop fitting BSPT thread



CODE	ØD	T	ØP	L	A	B	H	g
SPC04R01	4	R 1/8"	10,0	26,1	8,0	15,3	10	10,0
SPC06R01	6	R 1/8"	12,0	28,7	8,0	16,9	12	13,0
SPC06R02		R 1/4"	12,0	28,7	10,0	16,9	14	20,0
SPC08R02	8	R 1/4"	14,0	33,3	10,0	18,6	14	20,0
SPC08R03		R 3/8"	14,0	33,3	11,0	18,6	17	36,0
SPC10R02	10	R 1/4"	17,0	36,4	10,0	20,3	17	48,0
SPC10R03		R 3/8"	17,0	37,6	11,0	20,3	17	36,0
SPC10R04		R 1/2"	17,0	38,4	14,0	20,3	21	60,0
SPC12R02	12	R 1/4"	19,0	44,7	10,0	22,6	19	48,0
SPC12R03		R 3/8"	19,0	44,6	11,0	22,6	19	49,0
SPC12R04		R 1/2"	19,0	44,6	14,0	22,6	21	64,0

**SPC-G**

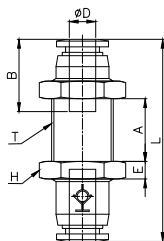
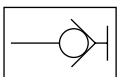
Male connector stop fitting BSPP thread



CODE	ØD	T	ØP	L	A	B	H	g
SPC04G01	4	G 1/8"	10,3	25,5	5,0	15,3	12	10,0
SPC06G01	6	G 1/8"	12,0	27,7	5,0	16,9	12	13,0
SPC06G02		G 1/4"	12,0	27,2	6,5	16,9	15	20,0
SPC08G02	8	G 1/4"	14,0	31,9	6,5	18,6	15	20,0
SPC08G03		G 3/8"	14,0	31,9	6,5	18,6	17	36,0
SPC10G02	10	G 1/4"	17,0	34,9	6,5	20,3	17	48,0
SPC10G03		G 3/8"	17,0	36,4	6,5	20,3	17	36,0
SPC10G04		G 1/2"	17,0	37,4	8,0	20,3	21	60,0
SPC12G02	12	G 1/4"	19,0	43,2	6,5	22,6	19	48,0
SPC12G03		G 3/8"	19,0	43,2	6,5	22,6	21	49,0
SPC12G04		G 1/2"	19,0	43,7	8,0	22,6	21	64,0

**SPUM**

Bulkhead connector stop fitting

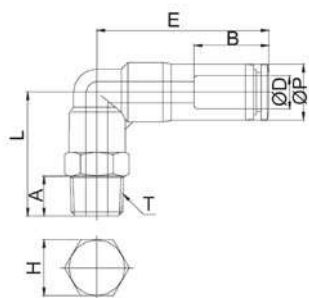
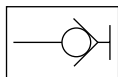


CODE	ØD	T	L	E	A MAX	B	H	g
SPUM04	4	M12x1	40,9	4	12,1	14,8	14	22,4
SPUM06	6	M14x1	45,9	4	14,1	16,4	17	32,2
SPUM08	8	M16x1	53,2	5	18,5	18,5	19	48,9
SPUM10	10	M20x1	58,6	5	20,8	20,3	24	81,2
SPUM12	12	M22x1	67,6	5	26,6	22,6	26	



**SPL-R**

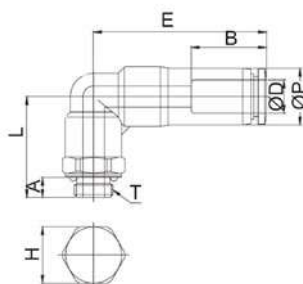
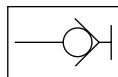
Male elbow stop fitting BSPT thread



CODE	ØD	T	ØP	L	E	A	B	H	g
SPL04R01	4	R 1/8"	10,0	24,5	29,5	8,0	14,8	10	15,0
SPL06R01	6	R 1/8"	12,0	26,5	32,8	8,0	16,4	12	22,0
SPL06R02		R 1/4"	12,0	29,5	32,8	10,0	16,4	14	27,0
SPL08R01	8	R 1/8"	14,0	28,0	42,9	8,0	18,4	14	32,0
SPL08R02		R 1/4"	14,0	31,0	42,9	10,0	18,4	14	38,0
SPL08R03		R 3/8"	14,0	32,0	42,9	11,0	18,4	17	44,0
SPL10R02	10	R 1/4"	17,0	31,5	49,0	10,0	20,2	17	57,0
SPL10R03		R 3/8"	17,0	32,5	49,0	11,0	20,2	17	64,0
SPL10R04		R 1/2"	17,0	35,5	49,0	14,0	20,2	21	80,0
SPL12R03	12	R 3/8"	19,0	35,4	57,5	11,0	22,4	19	78,0
SPL12R04		R 1/2"	19,0	38,4	57,5	14,0	22,4	21	91,0

**SPL-G**

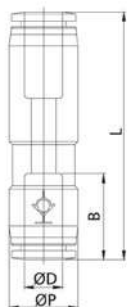
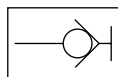
Male elbow stop fitting BSPP &amp; metric thread



CODE	ØD	T	ØP	L	E	A	B	H	g
SPL04M5	4	M5x0,8	10,0	20,5	29,5	4,0	14,8	10	13,0
SPL04M6		M6x1,0	10,0	20,6	29,5	4,1	14,8	10	14,0
SPL04G01		G 1/8"	10,0	21,5	29,5	5,0	14,8	14	15,0
SPL06M5	6	M5x0,8	12,0	22,5	32,8	4,0	16,4	12	19,0
SPL06G01		G 1/8"	12,0	23,5	32,8	5,0	16,4	14	22,0
SPL06G02		G 1/4"	12,0	25,5	32,8	6,5	16,4	17	27,0
SPL08G02	8	G 1/4"	14,0	27,0	42,9	6,5	18,4	17	38,0
SPL08G03		G 3/8"	14,0	26,5	42,9	6,5	18,4	20	44,0
SPL10G02	10	G 1/4"	17,0	27,5	49,0	6,5	20,2	17	57,0
SPL10G03		G 3/8"	17,0	27,0	49,0	6,5	20,2	20	64,0
SPL10G04		G 1/2"	17,0	28,5	49,0	8,0	20,2	24	80,0
SPL12G03	12	G 3/8"	19,0	29,9	57,5	6,5	22,4	20	78,0
SPL12G04		G 1/2"	19,0	31,4	57,5	8,0	22,4	24	91,0

**SPU**

Union connector stop fitting



CODE	ØD	ØP	L	B	g
SPU04	4	10,5	41,7	16,2	5,0
SPU06	6	12,5	45,9	17,4	8,0
SPU08	8	14,8	52,8	18,9	11,0
SPU10	10	17,5	58,3	20,4	19,0
SPU12	12	20,5	67,1	23,0	30,0



# TierreGroup®

Always a fittings solution



**UN PASSO AVANTI**  
NELL'INTEGRAZIONE DEI PROCESSI

 TierreGroup®

**FOLLOW US!**



**FUNCTION  
FITTINGS  
CHECK  
VALVES**

**PLUS**

**AVAILABLE IN DIFFERENT  
MATERIALS TO BE USED IN MULTIPLE  
APPLICATIONS**

---

**DIFFERENT TECHNOLOGIES TO  
GUARANTEE MORE SOLUTIONS**

---

**INDICATOR OF FLOW DIRECTION  
ON VALVE BODY**

---

**FULL PASSAGE GUARANTEE**

---

**ALSO AVAILABLE FOR FOOD FLUIDS  
AND POTABLE WATER CONTACT  
(1700LF & HCVU)**



Check valves are actuated directly by the fluid being conveyed, allowing it to flow in only one direction. They are used to keep a part of the circuit under pressure even in the absence of supply pressure.

### CHECK VALVES / CDC PNEUMATICS

					
p. 378 / <b>CVPC-R</b>	p. 378 / <b>CVPC-R-IN</b>	p. 378 / <b>CVPC-G</b>	p. 379 / <b>CVPC-G-IN</b>	p. 379 / <b>CVPU</b>	p. 379 / <b>CVPF-R</b>
					
p. 380 / <b>CVPF-R-IN</b>	p. 380 / <b>CVPF-G</b>	p. 380 / <b>CVPF-G-IN</b>	p. 380 / <b>CVFF</b>		

### CHECK VALVES / NICKEL-PLATED BRASS PN 10



### CHECK VALVES / YELLOW BRASS PN 16



### CHECK VALVES / FLUIDFIT



**CHECK VALVES PN20 / YELLOW BRASS, STAINLESS STEEL AISI 303 & STAINLESS STEEL AISI 316L**

---

p. 389 / **1705**p. 390 / **1710**p. 391 / **1730****PILOT CHECK VALVES / BRASS**

---

p. 394 / **PVSF-R**p. 394 / **PVSF-G**

# TierreGroup®

Always a fittings solution



**I VANTAGGI  
NELL'UTILIZZO DI  
DEPURATORI D'ACQUA**

- 
- 

Risparmio denaro
- 

Ottimizzazione tempo
- 

Eliminazione bottiglie in plastica
- 

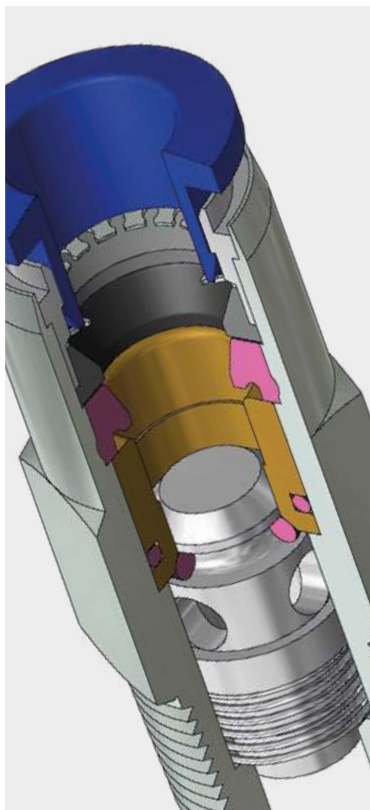
Riduzione emissione CO2



**FOLLOW US!**







0°C ÷ 60°C



**Working pressure:**  
From 0 to 10 Bar

**Negative pressure:**  
- 0,95 Bar (- 95 Kpa)

**Min. opening pressure:**  
0,1 - 0,2 Bar



Compressed air & vacuum  
(do not use with water)



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon

- Parallel gas BSPP ISO 228  
from G1/8" to G1/2" with o-ring

- Metric ISO 262  
M5 and M6



Polyamide PA, Polyurethane PU

**Body:**

CVPC: Brass from Ø4 to Ø8  
Aluminium from Ø10 to Ø12

CVPU: PBT from Ø4 to Ø8  
Aluminium from Ø10 to Ø12



CVPF: Nickel-plated brass  
CVFF: Nickel-plated brass  
Collet: POM

Lock claw: Stainless steel AISI 301  
Back ring: POM

Seal: NBR silicone free  
O-ring: NBR silicone free

Spring: Stainless steel AISI 301  
Valve: Aluminium

**SILICONE FREE**

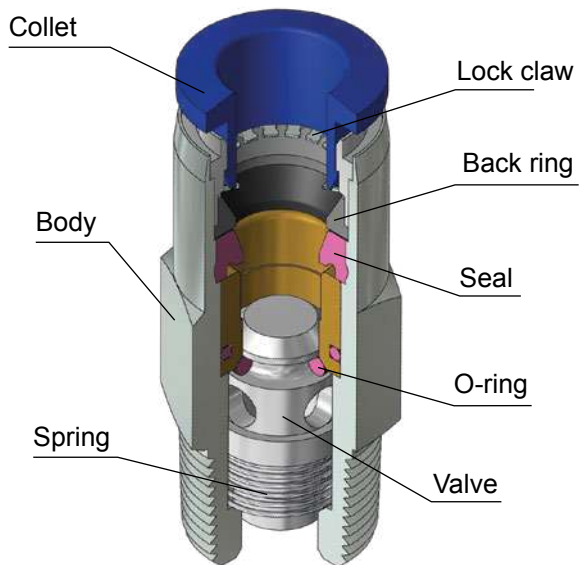


Products in compliance with  
EC Regulation 1907/2006

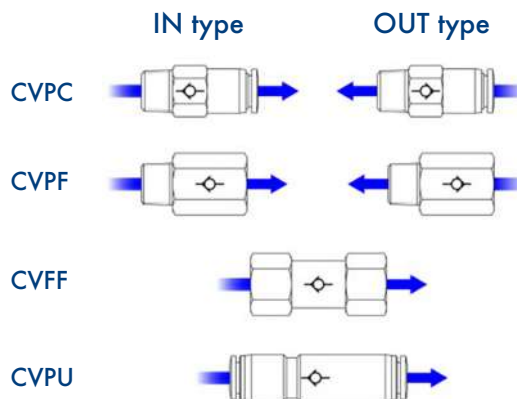
**RoHS3**

Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**FLOW**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

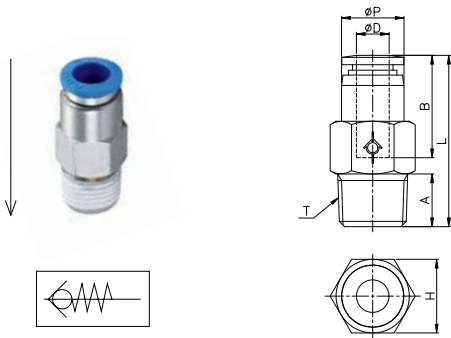
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	M5x0,8	M6x1	1/8"	1/4"	3/8"	1/2"
Nm	1,5	2,3	10	15	25	40



**CVPC-R**

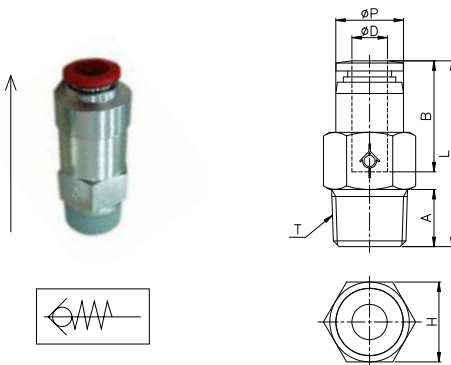
Male connector check valve BSPT thread - OUT type



CODE	ØD	T	ØP	L	A	B	H	g
CVPC04R01	4	R 1/8"	10,0	27,3	8,0	14,8	10	11,0
CVPC06R01	6	R 1/8"	11,9	32,5	8,0	16,4	12	16,0
CVPC06R02		R 1/4"	11,9	32,5	10,0	16,4	14	24,0
CVPC08R01	8	R 1/8"	14,0	34,9	8,0	18,4	14	21,0
CVPC08R02		R 1/4"	14,0	37,2	10,0	18,4	14	24,0
CVPC10R03	10	R 3/8"	23,0	56,3	11,0	20,2	22	35,0
CVPC10R04		R 1/2"	23,0	58,3	14,0	20,2	22	41,0
CVPC12R03	12	R 3/8"	25,0	62,2	11,0	22,9	24	40,0
CVPC12R04		R 1/2"	25,0	65,2	14,0	22,9	24	40,0

**CVPC-R-IN**

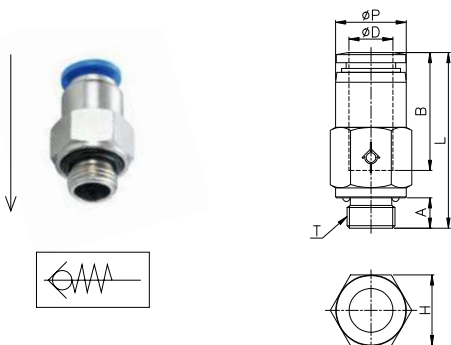
Male connector check valve BSPT thread - IN type



CODE	ØD	T	ØP	L	A	B	H	g
CVPC04R01-IN	4	R 1/8"	10,0	27,3	8,0	15,3	10	9,8
CVPC06R01-IN	6	R 1/8"	11,9	32,6	8,0	16,3	12	12,8
CVPC06R02-IN		R 1/4"	11,9	32,6	10,0	16,3	14	19,8
CVPC08R01-IN	8	R 1/8"	14,0	34,9	8,0	18,3	14	18,7
CVPC08R02-IN		R 1/4"	14,0	37,2	10,0	18,3	14	20,7
CVPC10R03-IN	10	R 3/8"	23,0	56,3	11,0	20,3	22	45,5
CVPC10R04-IN		R 1/2"	23,0	58,3	14,0	20,3	22	63,5
CVPC12R03-IN	12	R 3/8"	25,0	62,3	12,0	23,3	24	48,3
CVPC12R04-IN		R 1/2"	25,0	65,3	14,0	23,3	24	68,3

**CVPC-G**

Male connector check valve BSPP & metric thread - OUT type

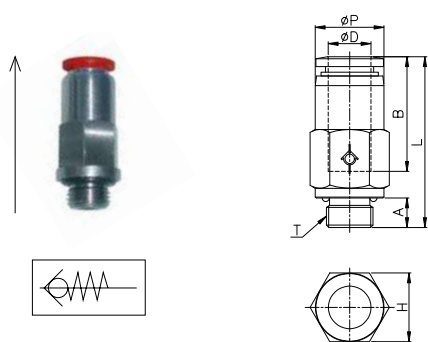


CODE	ØD	T	ØP	L	A	B	H	g
CVPC04M5	4	M5x0,8	10,0	31,4	3,6	14,8	10	11,0
CVPC04M6		M6x1,0	10,0	30,4	4,6	14,8	10	11,0
CVPC04G01		G 1/8"	10,0	27,3	6,0	14,8	10	11,0
CVPC06G01	6	G 1/8"	11,9	32,5	6,0	16,4	12	16,0
CVPC06G02		G 1/4"	11,9	32,5	7,0	16,4	15	24,0
CVPC08G01	8	G 1/8"	14,0	34,8	6,0	18,4	14	21,0
CVPC08G02		G 1/4"	14,0	36,9	7,0	18,4	15	24,0
CVPC10G03	10	G 3/8"	23,0	54,0	8,0	20,2	22	35,0
CVPC10G04		G 1/2"	23,0	55,3	9,0	20,2	24	41,0
CVPC12G03	12	G 3/8"	25,0	58,9	8,0	22,9	24	40,0
CVPC12G04		G 1/2"	25,0	60,2	9,0	22,9	24	40,0



### CVPC-G-IN

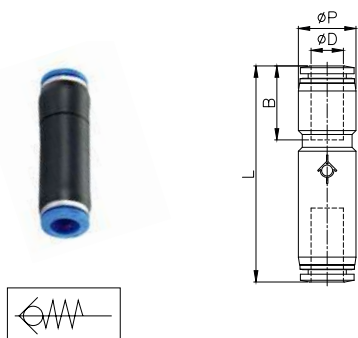
Male connector check valve BSPP & metric thread - IN type



CODE	ØD	T	ØP	L	A	B	H	g
CVPC04M5-IN	4	M5x0,8	10,0	31,4	3,6	14,8	10	11,0
CVPC04M6-IN		M6x1,0	10,0	30,4	4,6	14,8	10	11,0
CVPC04G01-IN		G 1/8"	10,0	27,3	6,0	14,8	10	11,0
CVPC06G01-IN	6	G 1/8"	11,9	32,5	6,0	16,4	12	16,0
CVPC06G02-IN		G 1/4"	11,9	32,5	7,0	16,4	15	24,0
CVPC08G01-IN	8	G 1/8"	14,0	34,3	6,0	18,4	14	21,0
CVPC08G02-IN		G 1/4"	14,0	36,9	7,0	18,4	15	24,0
CVPC10G03-IN	10	G 3/8"	23,0	54,0	8,0	20,2	22	35,0
CVPC10G04-IN		G 1/2"	23,0	55,3	9,0	20,2	24	41,0
CVPC12G03-IN	12	G 3/8"	25,0	58,9	8,0	22,9	24	40,0
CVPC12G04-IN		G 1/2"	25,0	60,2	9,0	22,9	24	40,0

### CVPU

Union connector check valve - PBT



CODE	ØD	ØP	L	B	g
CVPU04	4	10,5	41,9	14,8	4,9
CVPU06	6	12,5	47,4	16,4	8,2
CVPU08	8	14,8	55,5	18,3	12,9

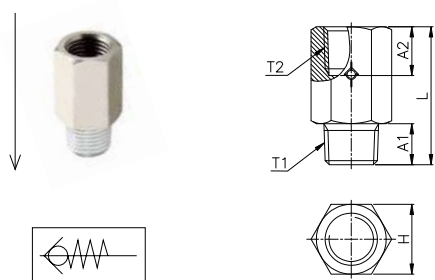
Union connector check valve - Aluminium



CODE	ØD	ØP	L	B	g
CVPU10	10	23,0	65,2	20,2	43,5
CVPU12	12	25,0	72,9	22,9	58,1

### CVPF-R

M/F connector check valve BSPT thread - OUT type

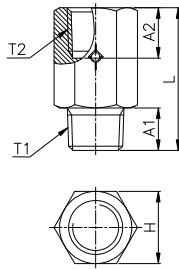


CODE	T1	T2	L	A1	A2	H	g
CVPF01R01	R 1/8"	R 1/8"	27,6	8	8,5	12	16,0
CVPF02R02	R 1/4"	R 1/4"	33,6	10	11	17	38,0
CVPF03R03	R 3/8"	R 3/8"	53,3	12	13	22	107,0
CVPF04R04	R 1/2"	R 1/2"	61,5	14	15	24	131,0



**CVPF-R-IN**

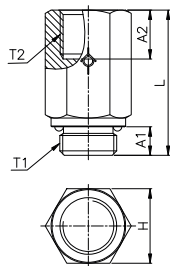
M/F connector check valve BSPT thread - IN type



CODE	T1	T2	L	A1	A2	H	g
CVPF01R01-IN	R 1/8"	R 1/8"	27,6	8	8,5	12	16,0
CVPF02R02-IN	R 1/4"	R 1/4"	33,6	10	11	17	38,0
CVPF03R03-IN	R 3/8"	R 3/8"	53,3	12	13	22	107,0
CVPF04R04-IN	R 1/2"	R 1/2"	61,5	14	15	24	131,0

**CVPF-G**

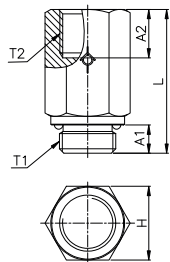
M/F connector check valve BSPP thread - OUT type



CODE	T1	T2	L	A1	A2	H	g
CVPF01G01	G 1/8"	G 1/8"	27,	5,0	8,5	14	23,0
CVPF02G02	G 1/4"	G 1/4"	33,3	6,5	11	17	39,0
CVPF03G03	G 3/8"	G 3/8"	50,5	6,5	13	22	102,0
CVPF04G04	G 1/2"	G 1/2"	56,7	8,0	15	24	121,0

**CVPF-G-IN**

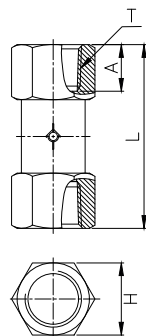
M/F connector check valve BSPP thread - IN type



CODE	T1	T2	L	A1	A2	H	g
CVPF01G01-IN	G 1/8"	G 1/8"	27,6	5,0	8,5	14	23,0
CVPF02G02-IN	G 1/4"	G 1/4"	33,3	6,5	11	17	39,0
CVPF03G03-IN	G 3/8"	G 3/8"	50,5	6,5	13	22	102,0
CVPF04G04-IN	G 1/2"	G 1/2"	56,7	8,0	15	24	121,0

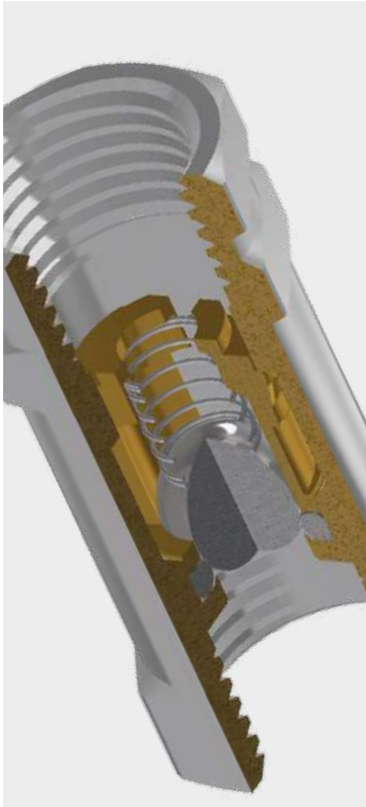
**CVFF**

Female check valve BSPT thread



CODE	T	L	A	H	g
CVFF-R01	R 1/8"	35,6	9,0	12	20,0
CVFF-R02	R 1/4"	43,3	11,0	17	49,2
CVFF-R03	R 3/8"	53,2	12,0	22	93,9
CVFF-R04	R 1/2"	60,5	14,0	24	113,7





NBR: -5°C ÷ 70°C  
EPDM: -40°C ÷ 140°C



Working pressure:  
from 0,5 to 10 Bar  
Min. opening pressure:  
0,025 Bar  
Max. opening pressure:  
0,07 Bar



Compressed air and fluids  
suitable with construction  
materials



Fluid flow in one direction  
only. Flow direction marked  
on the body



- Parallel gas BSPP ISO 228  
from G 1/8" to G 1/2"  
- Metric ISO 262  
M5



Body: Nickel-plated brass  
Shutter with ball: Stainless steel  
AISI 304  
Spring: Stainless steel AISI 302  
O-ring: NBR 70

**PLUS**

Made with a ball shutter, which guarantees  
the advantage of eliminating the friction  
of the components and, at the same time,  
increases the lifetime.

**SILICONE FREE**

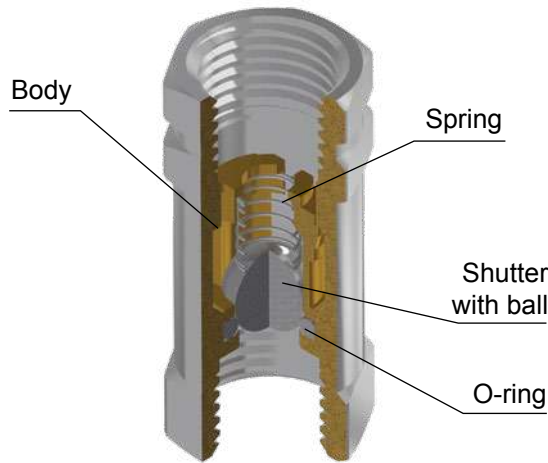


Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

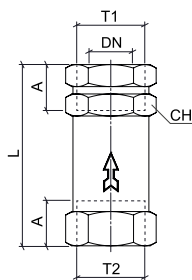
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**1700L**

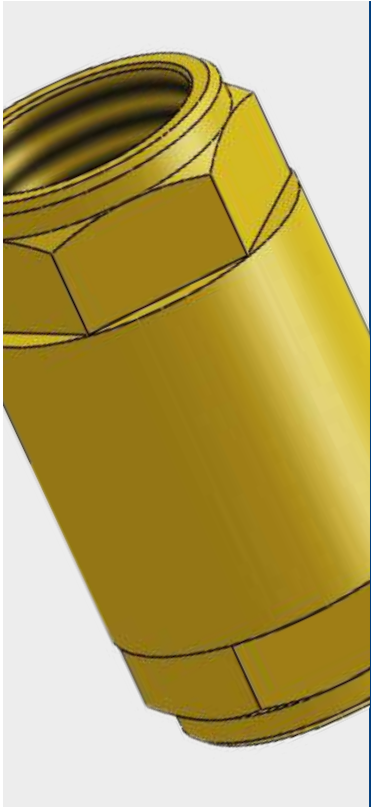
Female check valve BSPP & metric thread



CODE	T1	T2	ØD	L	A	CH	g
1700TRM5L	M5x0,8	M5x0,8	2,8	24,0	6,0	10	13,0
1700TR18L	G 1/8"	G 1/8"	5,0	31,0	8,0	13	28,0
1700TR14L	G 1/4"	G 1/4"	7,0	37,0	9,5	16	35,0
1700TR38L	G 3/8"	G 3/8"	8,5	42,0	10,5	20	59,0
1700TR12L	G 1/2"	G 1/2"	10,0	50,0	21,0	25	78,0







0°C ÷ 90°C



**Working pressure:**  
 from G3/8" to G1": 16 Bar  
 from G1"-1/4" to G2": 10 Bar  
 from G2"-1/2" to G4": 8 Bar



Air, neutral gases and water



Fluid flow in one direction only. Flow direction marked on the body



Parallel gas BSPP ISO 228  
 from G3/8" to G4"

**Body:** Yellow brass CW617N  
 UNI EN 12165/98

**Body end:** Nickel-plated brass  
 CW617N UNI EN 12165/98

**Shutter:** Acetal resin

**Spring:** Stainless steel AISI 302

**Seal:** NBR



**AVAILABILITY**

Available on request with shutter in stainless steel AISI 304

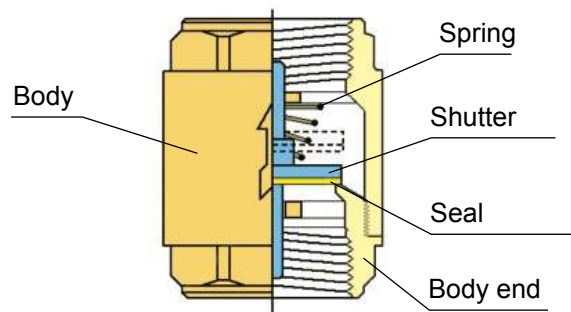
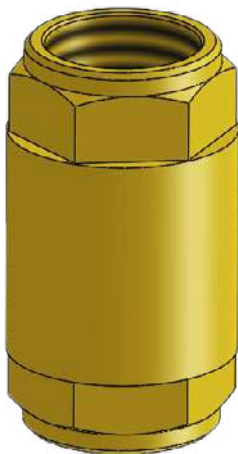


Products in compliance with EC Regulation 1907/2006



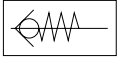
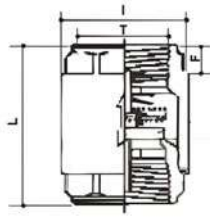
Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**1705L**

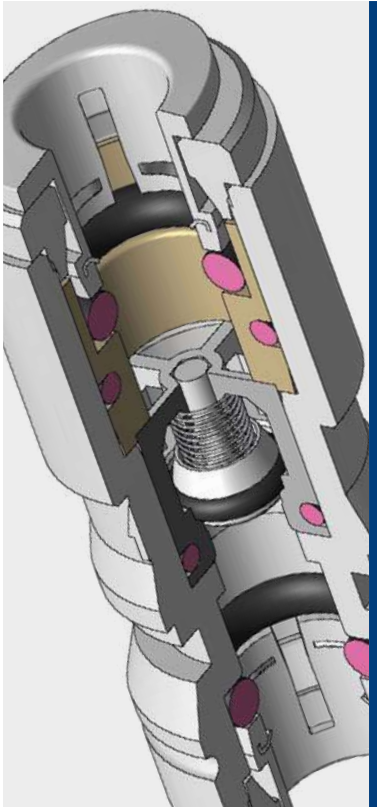
Check valve BSPP thread - yellow brass



CODE	T	F	I	L	g
1705TR38L	G 3/8"	12	29	46,0	35,0
1705TR12L	G 1/2"	12	30	48,0	110,0
1705TR34L	G 3/4"	14	37	53,0	150,0
1705TR1L	G 1"	15	44	59,0	240,0
1705TR114L	G 1"-1/4"	14	56	66,0	360,0
1705TR112L	G 1"-1/2"	15	63	71,0	480,0
1705TR2L	G 2"	14	78	80,0	700,0
1705TR212L	G 1"-1/2"	16	103	93,0	380,0
1705TR3L	G 3"	18	120	104,0	850,0
1705TR4L	G 4"	20	155	115,0	1050,0







**Dry air:** -20°C ÷ 90°C  
**Air & Fluids:** 1°C ÷ 90°C  
 The maximum recommended working temperature for continuous use is 65°C and 90°C for a maximum use of 5 minutes.



**Working pressure:**  
 Up to 10 Bar  
 From 0 to 8 Bar with dry air  
**Negative pressure:**  
 - 0,95 Bar (- 95 Kpa)  
 Data depend from the tubes and temperature used  
**Opening pressure:**  
 0,02 Bar



Potable water, beverages, vacuum, compressed air, gases and fluids compatible with construction materials



Polyethylene PE, polyamide PA, PTFE, FEP  
**Tubes made of light metals:**  
 Brass, copper and mild steel  
**Tubes made of hard materials:**  
 See page 84 for information on the use of hard material tubes



- Body: POM
- Collet: POM
- Lock claw: Stainless steel AISI 301
- Seal: EPDM suitable for food contact
- Guide: POM
- Valve: POM, Stainless steel AISI 301 and EPDM



Food contact materials  
 EC 1935/2004



D.M. 174/2004



ICIM certified product  
 food contact materials



ICIM certified product  
 water contact materials



ACS



NSF51 / NSF61  
 NSF certificate on behalf of  
 CDC PNEUMATICS CORP.

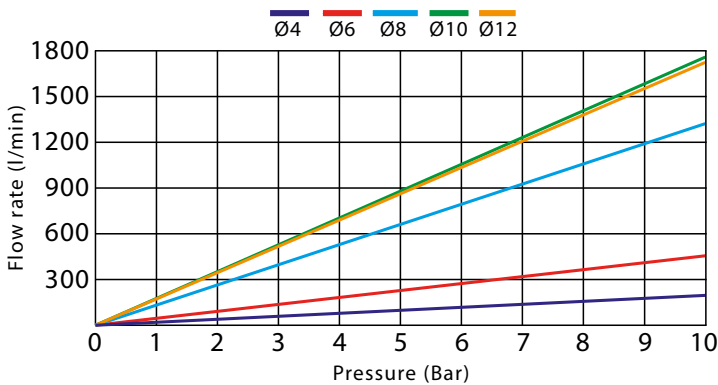


Products in compliance with  
 EC Regulation 1907/2006

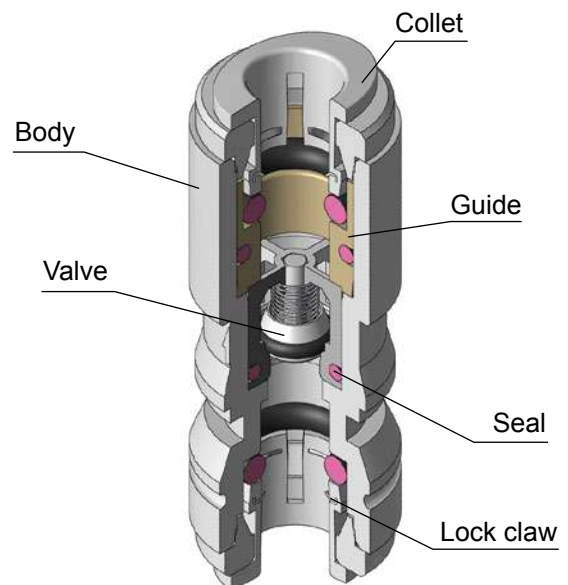


Products in compliance with  
 the directive EU 2015/863

**FLOW CHART**

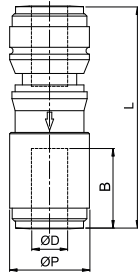
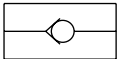


**CONSTRUCTION DETAILS**



**HCVU**

Union connector check valve - acetal resin



CODE	ØD	ØP	L	B	g
HCVU0404W	4	13,2	44,4	14,7	6,1
HCVU0606W	6	15,5	45,5	16,1	7,4
HCVU0808W	8	17,6	48,6	17,5	10,0
HCVU1010W	10	20,0	57,6	19,4	14,5
HCVU1212W	12	23,6	67,5	23,9	22,1



**FUNCTION  
FITTINGS**  
CHECK  
VALVES  
PN20

**PLUS**

**POSSIBILITY TO ASSEMBLE  
DIFFERENT SPRINGS FOR DIFFERENT  
OPENING PRESSURES**

---

**MAXIMUM CAPACITY WITH  
MINIMUM PRESSURE LOSS**

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**INDICATOR OF FLOW ON VALVE  
BODY**

---

**STRONG DESPITE COMPACT SIZE**

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**POSSIBILITY TO ASSEMBLE SEALS IN  
NBR, FKM AND EPDM**





p. 389 / **1705**

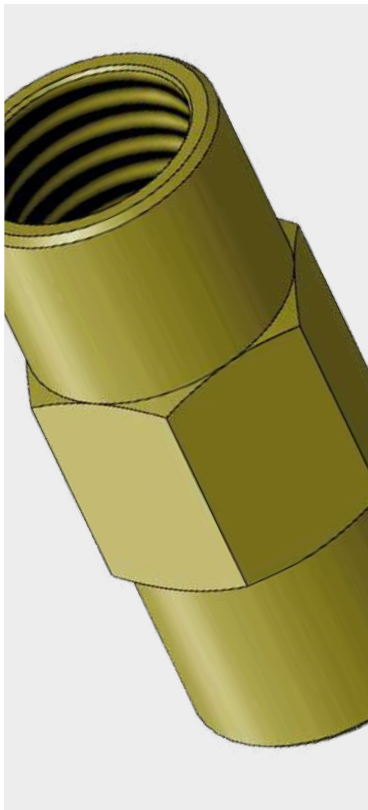


p. 390 / **1710**



p. 391 / **1730**





NBR: -20°C ÷ 100°C  
FKM: -20°C ÷ 205°C  
EPDM: -40°C ÷ 130°C



Working pressure:  
20 Bar



Compressed air, water, gases, mineral or synthetic non-aggressive oils in non-corrosive environments and fluids compatible with construction materials



Fluid flow in one direction only. Flow direction marked on the body



Parallel gas BSPP ISO 228 from G1/8" to G1"



Body: Yellow brass OT 58  
Shutter: Yellow brass OT 58  
Shutter support: Yellow brass OT 58  
Spring: Stainless steel AISI 302  
O-ring: NBR  
Retaining ring: Stainless steel AISI 302

**AVAILABILITY**

- Can be fitted with O-rings made of FKM or EPDM;
- Different opening pressures on request;



Products in compliance with EC Regulation 1907/2006

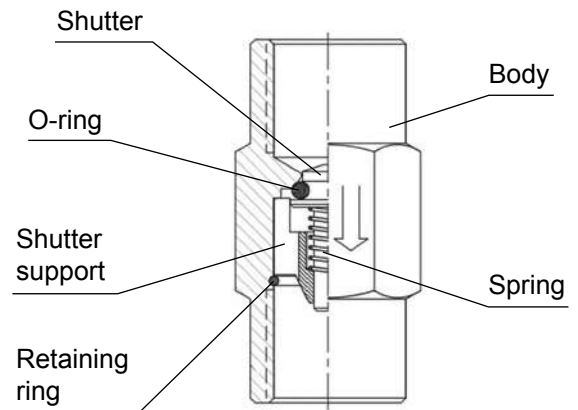


Products in compliance with the directive EU 2015/863

**MINIMUM OPENING PRESSURE**

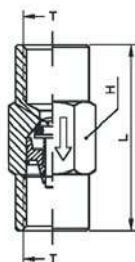
THREAD	G 1/8"	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Bar	0,35	0,30	0,25	0,08	0,10	0,80

**CONSTRUCTION DETAILS**

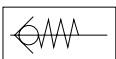


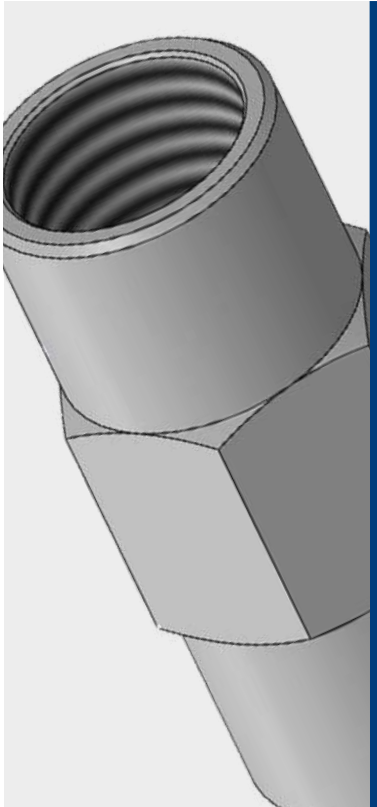
**1705**

Female check valve BSPP threa - yellow brass PN 20



CODE	T	L	H	g
1705TR18	G 1/8"	36,0	17	52,0
1705TR14	G 1/4"	38,5	17	45,0
1705TR38	G 3/8"	45,0	22	90,0
1705TR12	G 1/2"	56,0	27	153,0
1705TR34	G 3/4"	66,5	34	285,0
1705TR1	G 1"	79,0	40	388,0





NBR: -20°C ÷ 100°C  
FKM: -20°C ÷ 205°C  
EPDM: -40°C ÷ 130°C



Working pressure:  
20 Bar



Compressed air, water, gases, mineral or synthetic non-aggressive oils in non-corrosive environments and fluids compatible with construction materials



Fluid flow in one direction only. Flow direction marked on the body



Parallel gas BSPP ISO 228 from G1/8" to G1"

Body: Stainless steel AISI 303  
Shutter: Stainless steel AISI 303  
Shutter support: Acciaio inox AISI 303  
Spring: Stainless steel AISI 302  
O-ring: FKM  
Retaining ring: Stainless steel AISI 302



**AVAILABILITY**

- Can be fitted with NBR or EPDM O-rings;
- Different opening pressures on request;



Products in compliance with EC Regulation 1907/2006

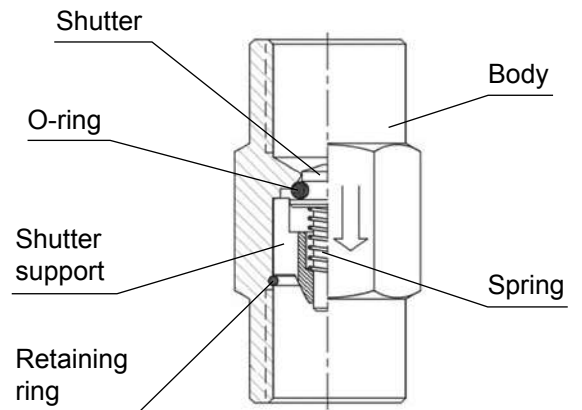


Products in compliance with the directive EU 2015/863

**MINIMUM OPENING PRESSURE**

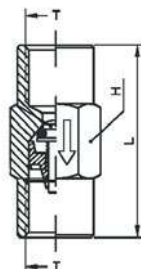
THREAD	G 1/8"	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Bar	0,35	0,30	0,25	0,08	0,10	0,80

**CONSTRUCTION DETAILS**



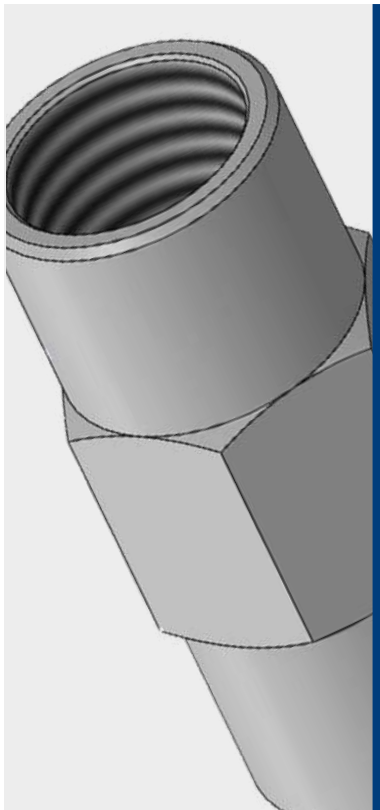
**1710**

Female check valve BSPP thread - stainless steel AISI 303 PN 20



CODE	T	L	H	g
1710TR18	G 1/8"	36,0	17	48,0
1710TR14	G 1/4"	38,5	17	43,0
1710TR38	G 3/8"	45,0	22	82,0
1710TR12	G 1/2"	56,0	27	143,0
1710TR34	G 3/4"	66,5	36	325,0
1710TR1	G 1"	79,0	41	388,0





NBR: -20°C ÷ 100°C  
FKM: -20°C ÷ 205°C  
EPDM: -40°C ÷ 130°C



Working pressure:  
20 Bar



Compressed air, oxidising,  
corrosive environments  
and fluids compatible with  
construction materials



Fluid flow in one direction  
only. Flow direction marked  
on the body



Parallel gas BSPP ISO 228  
from G1/8" to G1"

Body: Stainless steel AISI 316L  
Shutter: Stainless steel AISI 316L  
Shutter support: Stainless steel  
AISI 316L  
Spring: Stainless steel AISI 302  
O-ring: FKM  
Retaining ring: Stainless steel  
AISI 302



Food contact materials  
EC 1935/2004



D.M. 174/2004



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

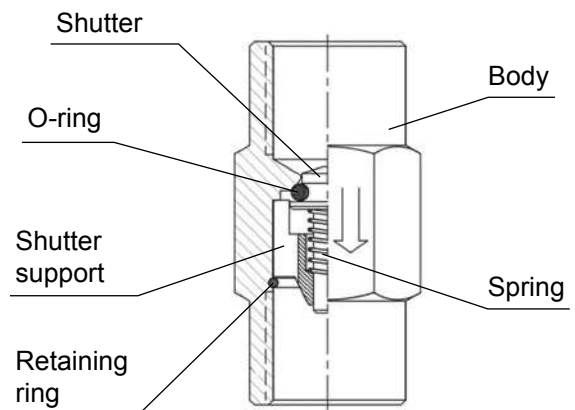
### MINIMUM OPENING PRESSURE

FILETTO	G 1/8"	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Bar	0,35	0,30	0,25	0,08	0,10	0,80

### AVAILABILITY

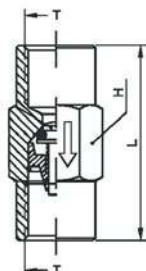
- Can be fitted with NBR and EPDM O-rings;
- Different opening pressures on request;

### CONSTRUCTION DETAILS



## 1730

Female check valve BSPP thread - stainless steel AISI 316L PN 20



CODE	T	L	H	g
1730TR18	G 1/8"	36,0	17	48,0
1730TR14	G 1/4"	38,5	17	43,0
1730TR38	G 3/8"	45,0	22	84,0
1730TR12	G 1/2"	56,0	27	143,0
1730TR34	G 3/4"	66,5	36	330,0
1730TR1	G 1"	79,0	41	388,0



 **TierreGroup**<sup>®</sup>  
Always a fittings solution

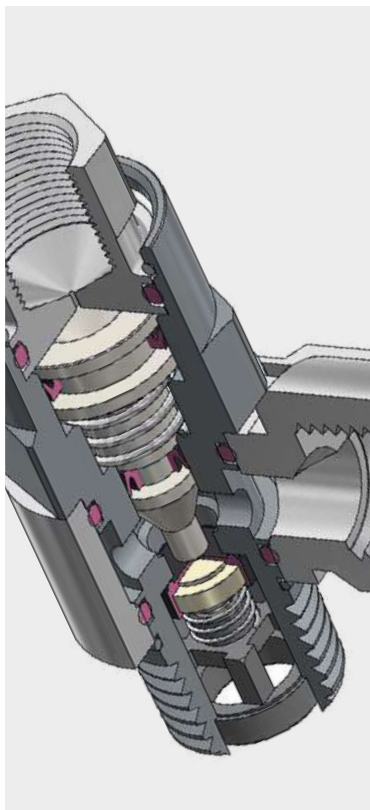
# PERFECT UNION

 **TierreGroup**<sup>®</sup>

**FOLLOW US!**







0°C ÷ 60°C



**Working pressure:**  
10 Bar

**Negative pressure:**  
- 0,95 Bar (- 95 Kpa)

**Min. pilot pressure:**  
More than 50% of the working pressure (more than 1 Bar)



Compressed air & vacuum  
(do not use with water)



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon
- Parallel gas BSPP ISO 228  
from G1/8" to G1/2"

**Body:** Nickel-plated brass and zinc

**Shaft rod:** Brass

**Valve:** NBR and Stainless steel



**Valve holder:** Brass

**O-ring:** NBR

**Seal:** NBR

**Spring:** Stainless steel AISI 301

**Retaining ring:** Stainless steel  
AISI 301

**SILICONE FREE**



Products in compliance with  
EC Regulation 1907/2006

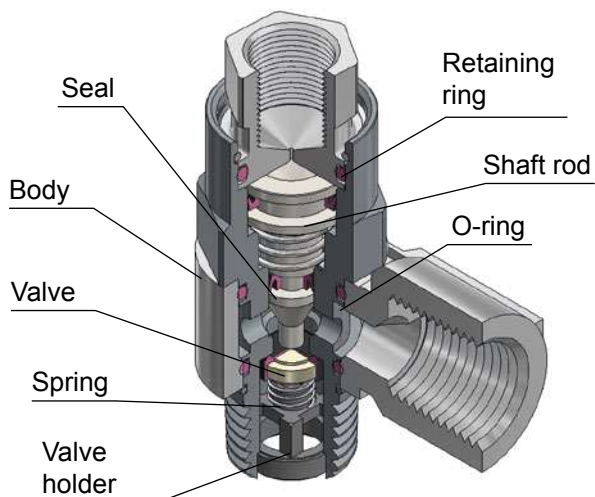
**RoHS3**

Products in compliance with  
the directive EU 2015/863

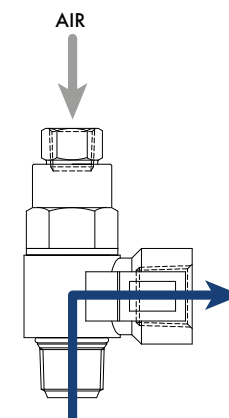
**FEATURES**

They are also used as stop valves, mounted directly on the cylinders to block stem travel in the event of a pilot pressure drop. They ensure that the stem is blocked in the event of a tube breakage or lack of air and can be used to block the stem in intermediate positions depending on the application.

**CONSTRUCTION DETAILS**



**PILOTING**



**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

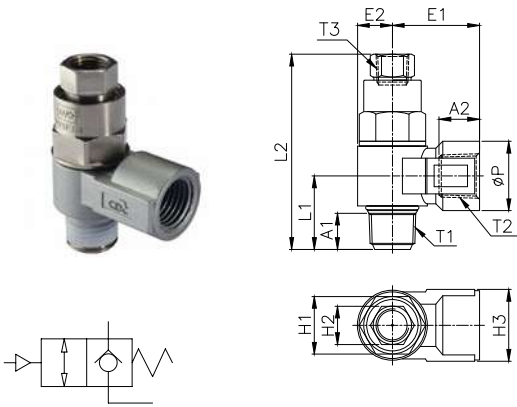
**TIGHTENING TORQUE**  
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	10	15	25	40



**PVSF-R**

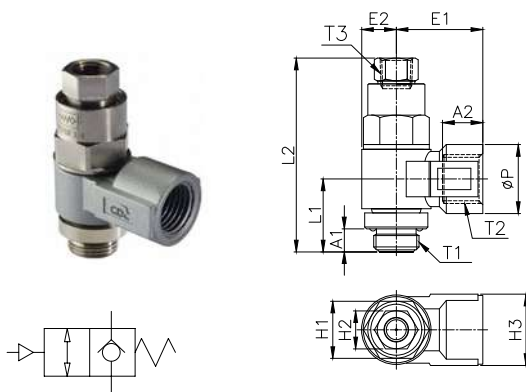
Pilot check valve, BSPT thread



CODE	ØP	T1	A1	T2	A2	T3	L1	L2	E1	E2	H1	H2	H3	g
PVSF-R01	14,5	R 1/8"	7,6	R 1/8"	10,0	M5x0,8	15,4	40,8	18,2	7,3	12	8	15	34,5
PVSF-R02	18,0	R 1/4"	10,6	R 1/4"	13,0	R 1/8"	21,1	48,9	26,5	9,5	17	12	19	74,6
PVSF-R03	23,0	R 3/8"	12,6	R 3/8"	14,5	R 1/8"	24,8	56,7	30,8	11,6	20	12	24	123,4
PVSF-R04	26,5	R 1/2"	14,5	R 1/2"	19,0	R 1/4"	31,0	70,6	38,7	14,0	24	17	28	207,2

**PVSF-G**

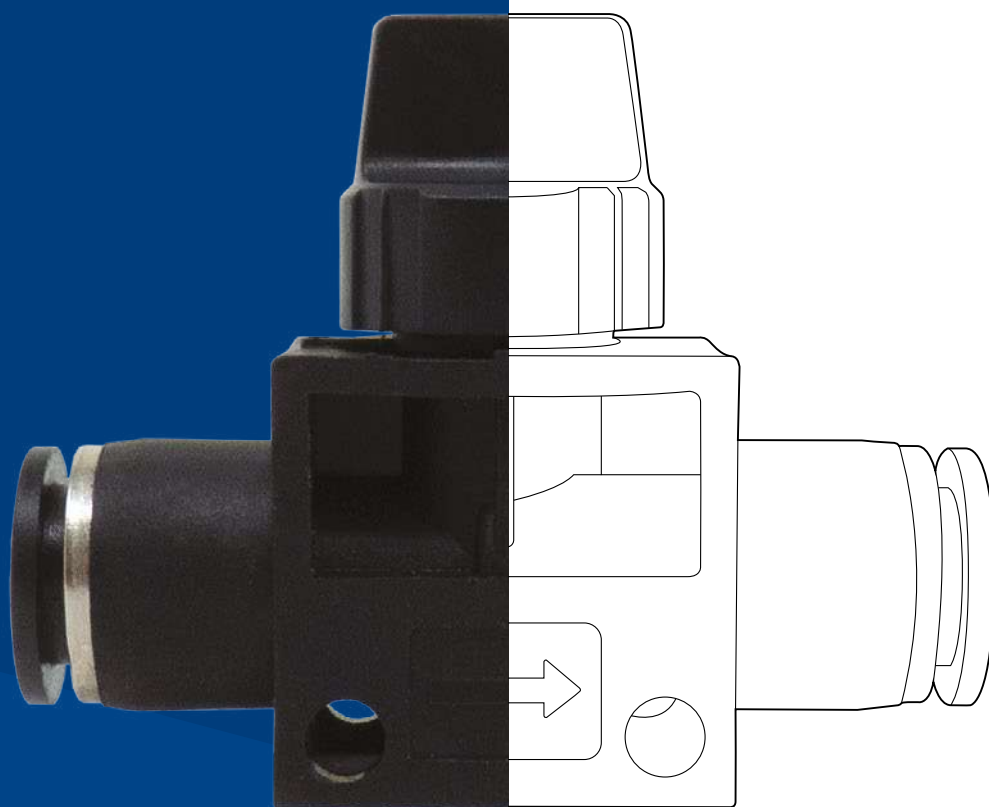
Pilot check valve, BSPP thread



CODE	ØP	T1	T2	T3	A1	A2	L1	L2	E1	E2	H1	H2	H3	g
PVSF-G01	14,5	G 1/8"	G 1/8"	M5x0,8	5,1	9,5	16,2	40,8	17,7	7,3	12	8	15	35,4
PVSF-G02	18,0	G 1/4"	G 1/4"	G 1/8"	6,6	12,5	21,3	48,9	26,0	9,5	17	12	19	77,3
PVSF-G03	23,0	G 3/8"	G 3/8"	G 1/8"	7,2	14,0	24,8	56,7	30,3	11,6	20	12	24	127,7
PVSF-G04	26,5	G 1/2"	G 1/2"	G 1/4"	8,7	18,5	29,6	70,6	38,2	14,0	24	17	28	218,8



# HAND VALVES





p. 397

**SLIDE VALVES**

**Materials:** Chromed brass  
**Pressure:** from 0 to 10 Bar  
**Temperature:** from -5°C to 70°C  
**Range:** M5 to G3/4" (1610)  
 G1/4" to G1/2" (1605)  
 N1/8" to N1/2" (1620)



p. 403

**WTR SERIES VALVES**

**Materials:** Nickel-plated brass and PBT  
**Pressure:** from 0 to 16 Bar  
**Temperature:** from 0°C to 80°C  
**Range:** Ø6 - Ø12 / R1/8" to R1/2"  
 Ø6 - Ø12 / G1/8" to G1/2"

# TECHNICAL INDEX



p. 411

**DUALTECH VALVES**



**Materials:** POM and PVDF  
**Pressure:** from 0 to 16 Bar  
**Temperature:** from -20°C to 90°C  
**Range:** R1/4"



p. 415

**TRIOTECH VALVES**

**Materials:** Polypropylene + 30% GF  
**Pressure:** from 0 to 10 Bar  
**Temperature:** from -5°C to 60°C  
**Range:** R1/8" to R1/4"



p. 419

**FLUIDFIT VALVES**



**Materials:** POM  
**Pressure:** from 0 to 20 Bar  
**Temperature:** from -20°C to 98°C  
**Range:** Ø6 - Ø12 (HBVU)  
 Ø10 / R3/8" (HBVL-R)



**HAND  
VALVES  
SLIDE  
VALVES**

**PLUS**

**SIMPLE AND INTUITIVE TO USE**

---

**ALLOWS TO CLOSE AND DISCHARGE  
THE PRESSURE DOWNSTREAM**

---

**WIDE RANGE AVAILABLE**

---

**AVAILABLE WITH SAFETY SYSTEM  
WHICH PREVENTS ACCIDENTAL  
OPERATIONS IN CASE OF  
VIBRATIONS**



## HAND VALVES / SLIDE VALVES

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p. 400 / **1610**

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p. 400 / **1620**

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## HAND VALVES / SLIDE VALVES WITH SECURITY BLOCK

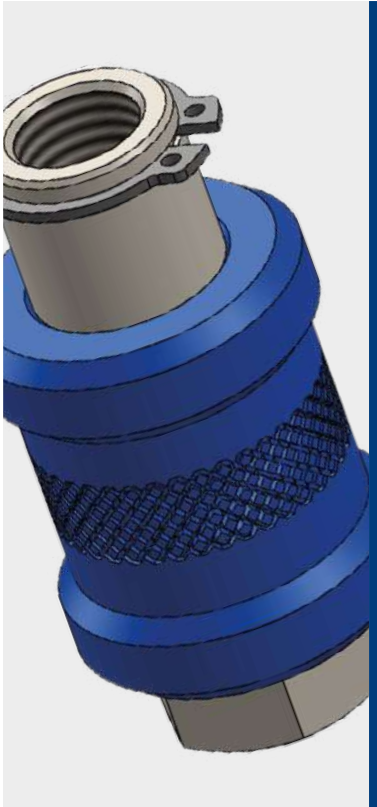
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p. 402 / **1605**

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-5°C ÷ 70°C



**Working pressure:**  
from 0 to 10 Bar



Compressed air, lubricated compressed air, various gases suitable with construction materials (gases which when discharged into the atmosphere are not dangerous to persons or property)



- Parallel gas BSPP ISO 228 from G1/8" to G3/4" (1610)
- NPT from N1/8" to N1/2" (1620)



**Body:** Chromed brass CW614N

**Slider:** Blue anodized aluminium

**Seal:** NBR 70

**Elastic ring:** Stainless steel

**FLOW DIRECTION**

Flow direction indication engraved on the valve body

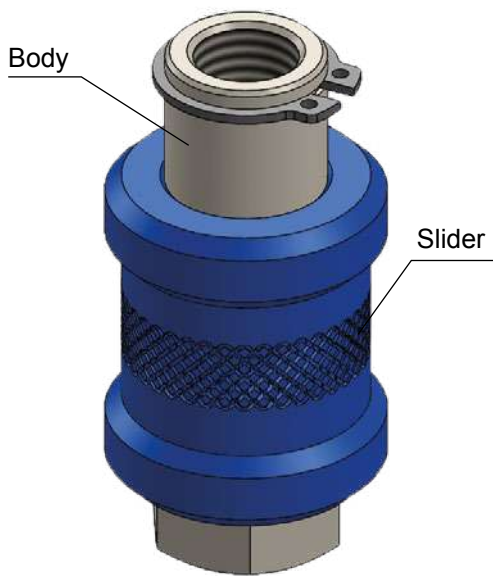


Products in compliance with EC Regulation 1907/2006

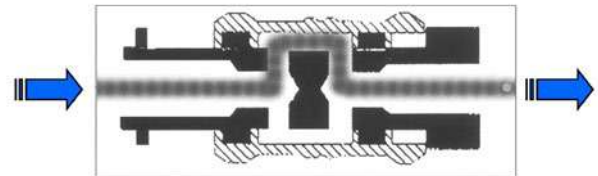


Products in compliance with the directive EU 2015/863

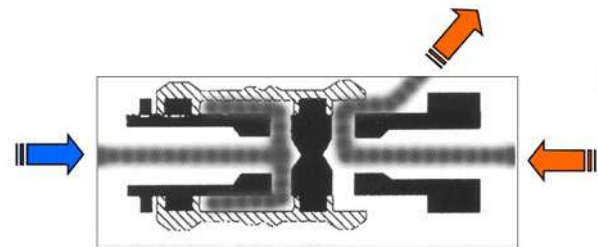
**CONSTRUCTION DETAILS**



**FLOW DIRECTION**



Slide in OPEN position



Slide in CLOSED position

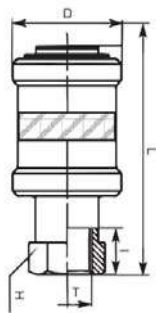
**AIR FLOW RATE**  
SLIDE VALVE - 1610

FLOW	M5x0,8	1/8"	1/4"	3/8"	1/2"	3/4"
Nl/min	100	680	1300	2100	3800	5700



**1610**

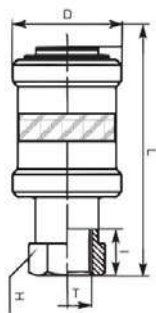
## Slide valve BSPP &amp; metric thread



CODE	T	D	I	L	H	g
1610TRM5	M5x0,8	14	5,0	30,5	10	11
1610TR18	G 1/8"	25	9,0	48,0	14	51
1610TR14	G 1/4"	30	11,5	58,0	19	98
1610TR38	G 3/8"	35	12,0	70,0	22	156
1610TR12	G 1/2"	40	15,0	75,0	27	212
1610TR34	G 3/4"	50	16,5	83,0	32	317

**1620**

## Slide valve NPT thread




CODE	T	D	I	L	H	g
1620TR18	N 1/8"	25	8	55,5	14	51
1620TR14	N 1/4"	30	11	69,0	19	98
1620TR38	N 3/8"	35	12	81,5	22	156
1620TR12	N 1/2"	40	15	90,0	27	212









 -5°C ÷ 70°C

 Working pressure:  
from 0 to 10 Bar

 Compressed air, lubricated compressed air, various gases suitable with construction materials (gases which when discharged into the atmosphere are not dangerous to persons or property)

 Parallel gas BSPP ISO 228  
from G1/4" to G1/2"

Body: Chromed brass CW614N

Slider: Red painted aluminium

 Seal: NBR 70

Elastic ring: Stainless steel AISI 302

Cursor: Chromed brass

Spring: Stainless steel AISI 302

### FLOW DIRECTION

Flow direction indication engraved on the valve body

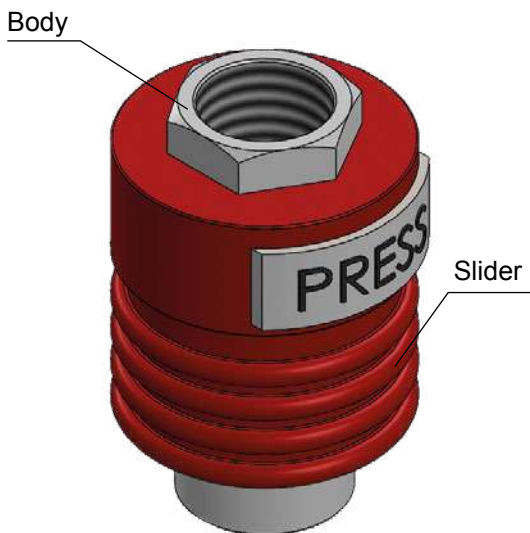


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

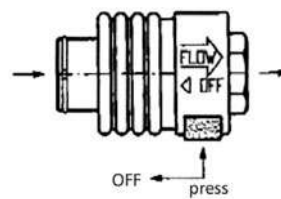
### CONSTRUCTION DETAILS



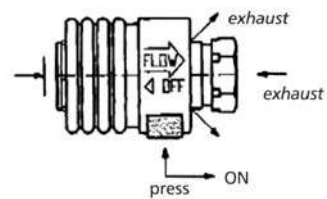
### SAFETY

The double locking system is designed to prevent the valve from closing or opening accidentally.

#### Open

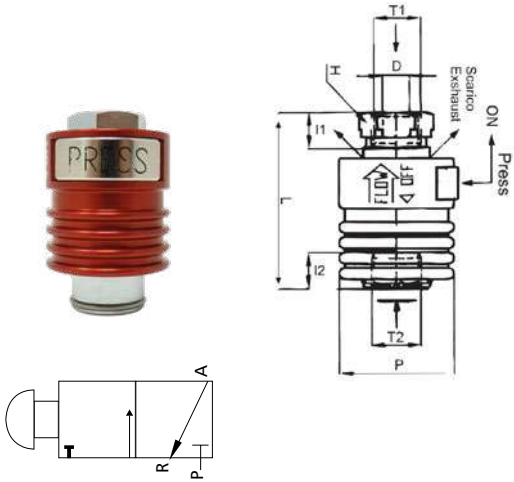


#### Closed



1605

Slide valves with security block BSPP thread



CODE	T1	T2	L	I1	I2	D	P	H	g
1605TR14	G 1/4"	G 1/4"	46,0	9,5	9,5	8	30	17	86,0
1605TR38	G 3/8"	G 3/8"	52,0	10,5	10,5	10	35	21	127,0
1605TR12	G 1/2"	G 1/2"	62,0	12,0	12,0	12,5	40	26	204,0



**HAND  
VALVES**  
WTR SERIES  
VALVES

**PLUS**

**COMPACT AND EXTREMELY LIGHT**

---

**GREAT VACUUM RESISTANCE**

---

**AVAILABLE IN VARIOUS  
CONFIGURATIONS**

---

**ALLOWS TO CLOSE AND DISCHARGE  
THE PRESSURE DOWNSTREAM**





p. 406 / **WTRFS-R**



p. 406 / **WTRFS-G**



p. 407 / **WTRSF-R**



p. 407 / **WTRSF-G**



p. 408 / **WTRSS-R**

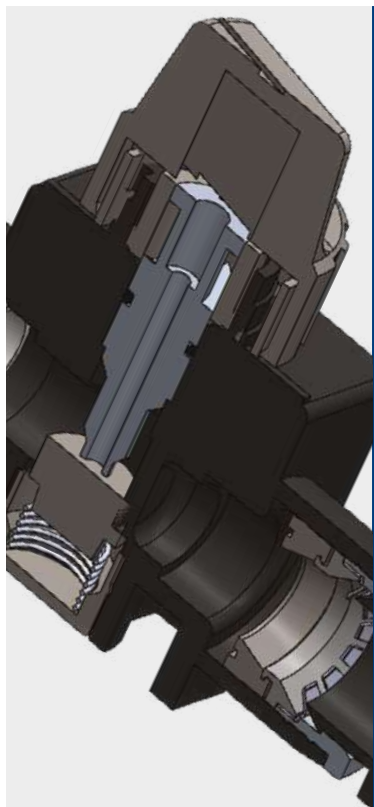


p. 408 / **WTRSS-G**



p. 409 / **WTRFF**





0°C ÷ 80°C



**Working pressure:**  
from 0 to 16 Bar  
**Negative pressure:**  
- 0,95 Bar ( - 95 Kpa)



Compressed air & vacuum  
(do not use with water)



- Taper gas BSPT ISO 7  
from R1/8" to R1/2" with teflon  
- Parallel gas BSPP ISO 228  
from G1/8" to G1/2" with o-ring



Polyamide PA, Polyurethane PU

**AVAILABILITY**

Available in 2-way version (with blue handle)

- Body: Nickel-plated brass and PBT
- Lock claw: Stainless steel AISI 301
- Seal: NBR silicone free
- Collet: POM
- Valve: POM
- Handle: POM (Black)
- Back ring: POM
- Collar: Nickel-plated zinc

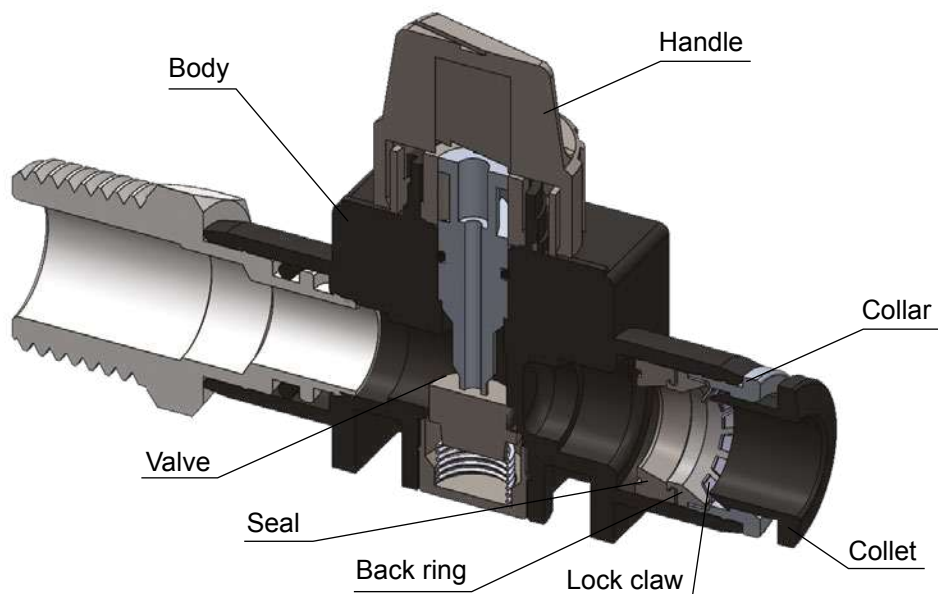


Products in compliance with EC Regulation 1907/2006



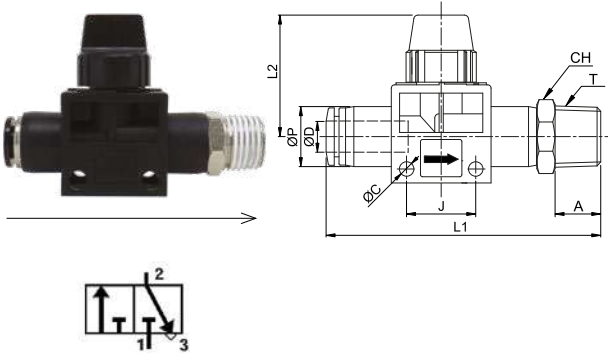
Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**WTRFS-R**

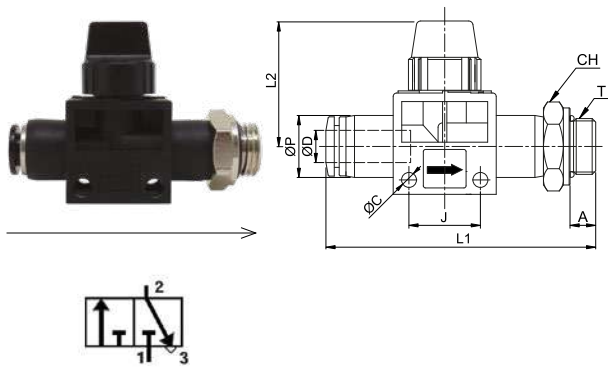
Male hand valve BSPT thread, flow tube-thread



CODE	ØD	T	ØP	ØC	A	L1	L2	J	CH
WTRFS06R01	6	R 1/8"	14,5	4,2	7	58,3	29,5	16,5	14
WTRFS06R02		R 1/4"	14,5	4,2	9,5	60,8	29,5	16,5	14
WTRFS06R03		R 3/8"	14,5	4,2	10,5	62,3	29,5	16,5	17
WTRFS08R01	8	R 1/8"	14,5	4,2	7	59,4	29,5	16,5	17
WTRFS08R02		R 1/4"	14,5	4,2	9,5	61,9	29,5	16,5	17
WTRFS08R03		R 3/8"	14,5	4,2	10,5	62,9	29,5	16,5	17
WTRFS10R02	10	R 1/4"	20,9	4,2	9,5	73,8	31	21,5	20
WTRFS10R03		R 3/8"	20,9	4,2	10,5	74,8	31	21,5	20
WTRFS10R04		R 1/2"	20,9	4,2	13,5	77,8	31	21,5	21
WTRFS12R02	12	R 1/4"	20,9	4,2	9,5	73,4	31	21,5	21
WTRFS12R03		R 3/8"	20,9	4,2	10,5	74,4	31	21,5	21
WTRFS12R04		R 1/2"	20,9	4,2	13,5	77,4	31	21,5	21

**WTRFS-G**

Male hand valve BSPP thread, flow tube-thread

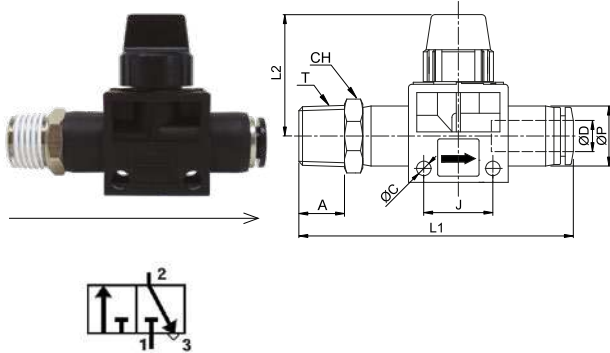


CODE	ØD	T	ØP	ØC	A	L1	L2	J	CH
WTRFS06G01	6	G 1/8"	14,5	4,2	5	57,8	29,5	16,5	14
WTRFS06G02		G 1/4"	14,5	4,2	5,8	59,1	29,5	16,5	14
WTRFS06G03		G 3/8"	14,5	4,2	6,8	60,6	29,5	16,5	17
WTRFS08G01	8	G 1/8"	14,5	4,2	5	58,9	29,5	16,5	17
WTRFS08G02		G 1/4"	14,5	4,2	5,8	59,7	29,5	16,5	17
WTRFS08G03		G 3/8"	14,5	4,2	6,8	61,2	29,5	16,5	20
WTRFS10G02	10	G 1/4"	20,9	4,2	5,8	72,1	31	21,5	20
WTRFS10G03		G 3/8"	20,9	4,2	6,8	73,1	31	21,5	20
WTRFS10G04		G 1/2"	20,9	4,2	8	74,8	31	21,5	24
WTRFS12G02	12	G 1/4"	20,9	4,2	5,8	71,7	31	21,5	21
WTRFS12G03		G 3/8"	20,9	4,2	6,8	72,7	31	21,5	21
WTRFS12G04		G 1/2"	20,9	4,2	8	74,4	31	21,5	24



**WTRSF-R**

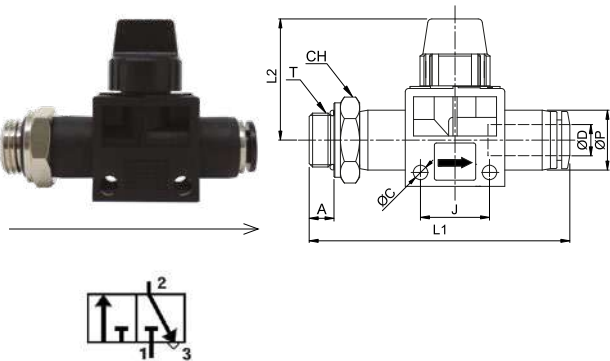
Male hand valve BSPT thread, flow thread-tube



CODE	ØD	T	ØP	ØC	A	L1	L2	J	CH
WTRSF06R01	6	R 1/8"	14,5	4,2	7	58,3	29,5	16,5	14
WTRSF06R02		R 1/4"	14,5	4,2	9,5	60,8	29,5	16,5	14
WTRSF06R03		R 3/8"	14,5	4,2	10,5	62,3	29,5	16,5	17
WTRSF08R01	8	R 1/8"	14,5	4,2	7	59,4	29,5	16,5	17
WTRSF08R02		R 1/4"	14,5	4,2	9,5	61,9	29,5	16,5	17
WTRSF08R03		R 3/8"	14,5	4,2	10,5	62,9	29,5	16,5	17
WTRSF10R02	10	R 1/4"	20,9	4,2	9,5	73,8	31	21,5	20
WTRSF10R03		R 3/8"	20,9	4,2	10,5	74,8	31	21,5	20
WTRSF10R04		R 1/2"	20,9	4,2	13,5	77,8	31	21,5	21
WTRSF12R02	12	R 1/4"	20,9	4,2	9,5	73,4	31	21,5	21
WTRSF12R03		R 3/8"	20,9	4,2	10,5	74,4	31	21,5	21
WTRSF12R04		R 1/2"	20,9	4,2	13,5	77,4	31	21,5	21

**WTRSF-G**

Male hand valve BSPP thread, flow thread-tube

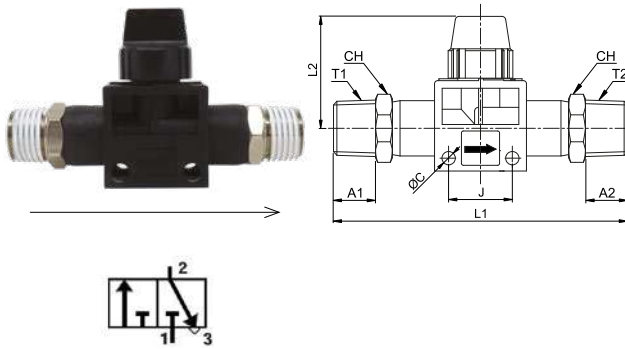


CODE	ØD	T	ØP	ØC	A	L1	L2	J	CH
WTRSF06G01	6	G 1/8"	14,5	4,2	5	57,8	29,5	16,5	14
WTRSF06G02		G 1/4"	14,5	4,2	5,8	59,1	29,5	16,5	14
WTRSF06G03		G 3/8"	14,5	4,2	6,8	60,6	29,5	16,5	17
WTRSF08G01	8	G 1/8"	14,5	4,2	5	58,9	29,5	16,5	17
WTRSF08G02		G 1/4"	14,5	4,2	5,8	59,7	29,5	16,5	17
WTRSF08G03		G 3/8"	14,5	4,2	6,8	61,2	29,5	16,5	20
WTRSF10G02	10	G 1/4"	20,9	4,2	5,8	72,1	31	21,5	20
WTRSF10G03		G 3/8"	20,9	4,2	6,8	73,1	31	21,5	20
WTRSF10G04		G 1/2"	20,9	4,2	8	74,8	31	21,5	24
WTRSF12G02	12	G 1/4"	20,9	4,2	5,8	71,7	31	21,5	21
WTRSF12G03		G 3/8"	20,9	4,2	6,8	72,7	31	21,5	21
WTRSF12G04		G 1/2"	20,9	4,2	8	74,4	31	21,5	24



**WTRSS-R**

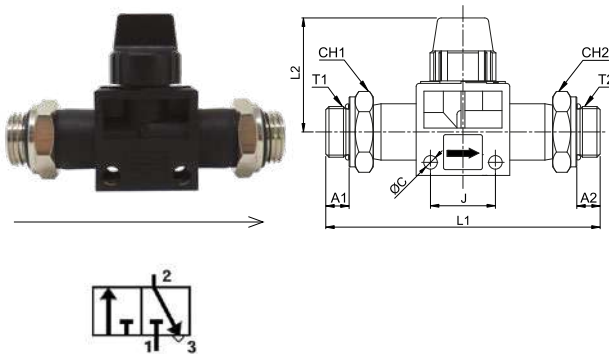
Male hand valve BSPT thread, flow thread-thread



CODE	T1	T2	ØC	A1	A2	L1	L2	J	CH1	CH2
WTRSS01R01	R 1/8"	R 1/8"	4,2	7	7	65	29,5	16,5	14	14
WTRSS02R02	R 1/4"	R 1/4"	4,2	9,5	9,5	70	29,5	16,5	14	14
WTRSS03R03	R 3/8"	R 3/8"	4,2	10,5	10,5	74	29,5	16,5	17	17
WTRSS04R04	R 1/2"	R 1/2"	4,2	13,5	13,5	90,5	31	21,5	21	21
REDUCED MALE HAND VALVE BSPT THREAD, FLOW THREAD-THREAD										
WTRSS02R01	R 1/4"	R 1/8"	4,2	9,5	7	67,5	29,5	16,5	14	14
WTRSS03R02	R 3/8"	R 1/4"	4,2	10,5	9,5	73	29,5	16,5	17	17
WTRSS04R03	R 1/2"	R 3/8"	4,2	13,5	10,5	87,5	31	21,5	21	21

**WTRSS-G**

Male hand valve BSPP thread, flow thread-thread



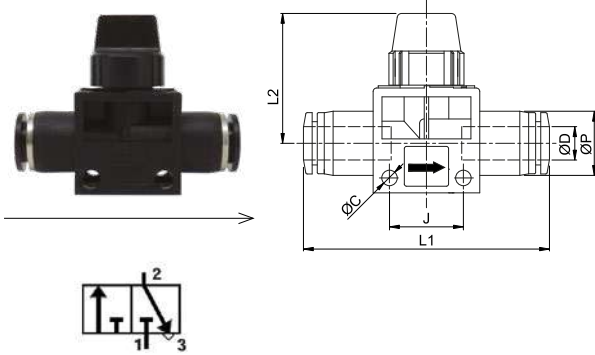
CODE	T1	T2	ØC	A1	A2	L1	L2	J	CH1	CH2
WTRSS01G01	G 1/8"	G 1/8"	4,2	5	5	64	29,5	16,5	14	14
WTRSS02G02	G 1/4"	G 1/4"	4,2	5,8	5,8	66,6	29,5	16,5	17	17
WTRSS03G03	G 3/8"	G 3/8"	4,2	6,8	6,8	70,6	29,5	16,5	20	20
WTRSS04G04	G 1/2"	G 1/2"	4,2	8	8	84,5	31	16,5	24	24
REDUCED HAND VALVE BSPP THREAD, FLOW THREAD-THREAD										
WTRSS02G01	G 1/4"	G 1/8"	4,2	5,8	5	65,3	29,5	16,5	17	14
WTRSS03G02	G 3/8"	G 1/4"	4,2	6,8	5,8	69,6	29,5	16,5	20	17
WTRSS04G03	G 1/2"	G 3/8"	4,2	8	6,8	82,8	31	21,5	24	20





**WTRFF**

Union hand valve, flow tube-tube



CODE	ØD	ØP	ØC	L1	L2	J
WTRFF0606	6	14,5	4,2	51,6	29,5	16,5
WTRFF0808	8	14,5	4,2	52,8	29,5	16,5
WTRFF1010	10	20,9	4,2	65,1	31	21,5
WTRFF1212	12	20,9	4,2	64,3	31	21,5



 **TierreGroup**<sup>®</sup>  
Always a fittings solution



**L'UNIONE FA LA FORZA**

**#COOPERAZIONE**

 **TierreGroup**<sup>®</sup>

**FOLLOW US!**



# HAND VALVES DUALTECH VALVES



PLUS

**LIMITED PRESSURE LOSSES**

---

**SIMPLE AND FAST TO INSTALL**

---

**ECO-FRIENDLY AND NON-TOXIC**

---

**EXCELLENT CHEMICAL RESISTANCE  
IN PVDF VERSION**

---

**WIDE RANGE OF TEMPERATURES IN  
PVDF VERSION**



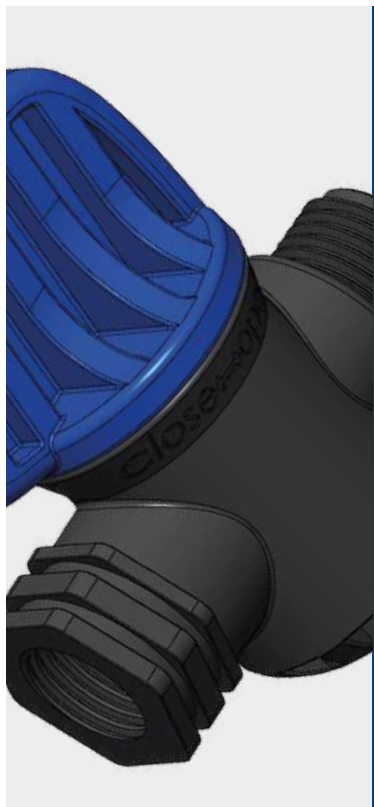



p. 413 / **9020**





p. 414 / **9020-PVDF**






 -20°C ÷ 90°C

 Working pressure:  
from 0 to 16 Bar

 Water and fluids suitable with  
construction materials

 Taper gas BSPT ISO 7  
R 1/4"

 Body: POM  
Handle: POM  
O-ring: NBR



Product certified WRAS  
water contact materials



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS

Handle



Body

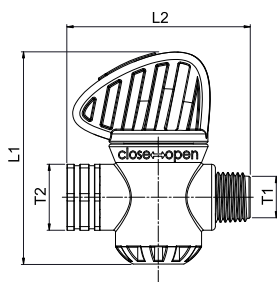
### HANDLE

Two-position handle: opening and closing



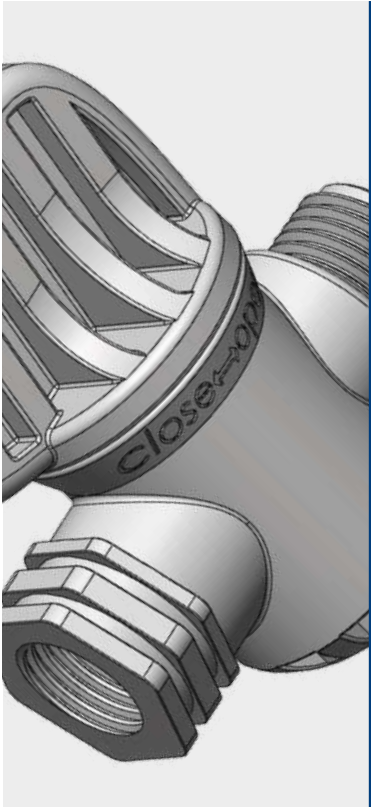
## 9020

Two-way valve in POM M/F, BSPT thread



CODE	T1	T2	L1	L2	g
9020TR14	R 1/4"	R 1/4"	57,6	51,2	70,0





-20°C ÷ 110°C



Working pressure:  
from 0 to 16 Bar



Water and fluids suitable with  
construction materials



Taper gas BSPT ISO 7  
R1/4"

Body: PVDF  
Handle: PVDF  
O-ring: Viton



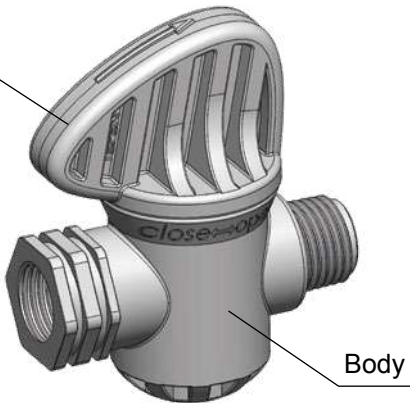
Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

CONSTRUCTION DETAILS

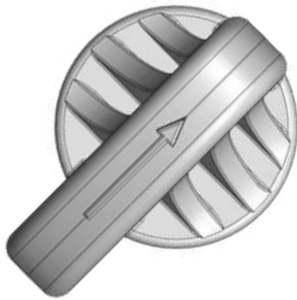
Handle



Body

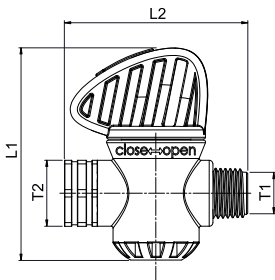
HANDLE

Two-position handle: opening and closing



9020-PVDF

Two-way valve in PVDF M/F, BSPT thread



CODE	T1	T2	L1	L2	g
9020TR14-PVDF	R 1/4"	R 1/4"	59,0	51,8	36,0



**HAND  
VALVES**  
TRIOTECH  
VALVES

**PLUS**

**GOOD RESISTANCE TO AGGRESSIVE  
FLUIDS**

---

**SUITABLE FOR APPLICATIONS ON  
FILTRATION PLANTS**





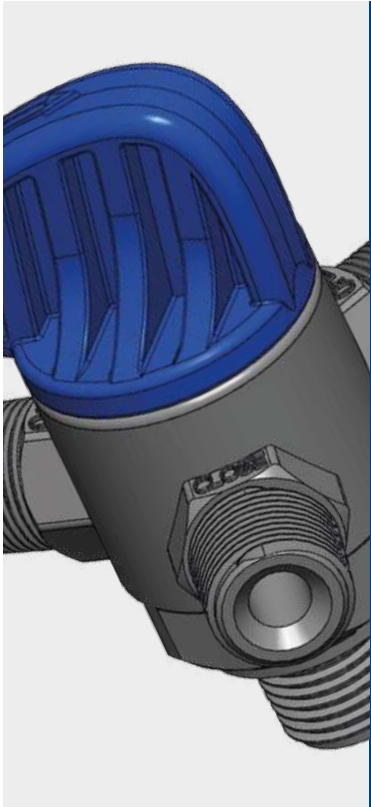
p. 418 / **9030**




p. 418 / **9031**









 -5°C ÷ 60°C

 Working pressure:  
from 0 to 16 Bar

 Water and fluids suitable with  
construction materials

**FLOW DROP**  
12 % approximated

 Taper gas BSPT ISO 7  
R1/8" and R1/4"

Body: Polypropylene  
Handle: Polypropylene  
Nut: Polypropylene  
O-ring: EPDM

 Products in compliance with  
EC Regulation 1907/2006



 **RoHS3** Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



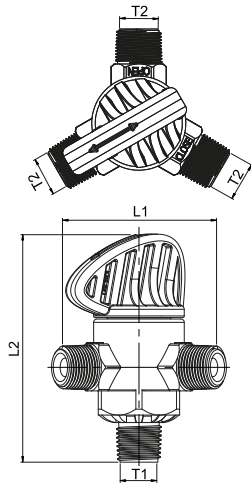
### HANDLE

Three-position handle.  
In the intermediate positions the valve is totally closed.



**9030**

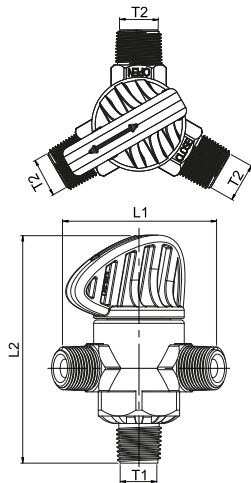
Triotech polypropylene valve, male BSPT thread



CODE	T1	T2	L1	L2	g
9030TR18	R 1/4"	R 1/8"	49,7	68,3	70,0
9030TR14	R 1/4"	R 1/4"	52,0	68,3	70,0

**9031**

Triotech polypropylene valve, BSPT thread for 8/5.5 tubes



CODE	T1	T2	L1	L2	g
9031TR8	R 1/4"	8/5,5	51,7	58,8	70,0



# HAND VALVES FLUIDFIT VALVES



**PLUS**

**SUITABLE FOR AIR AND FLUIDS USES**

**COMPACT SIZE, CAN BE USED IN LIMITED SPACES**

**FULL PASSAGE TO ENSURE AN EXCELLENT FLOW RATE**

**IDEAL FOR WATER TREATMENT IN VENDING SECTORS**





p. 422 / **HBVU**



p. 422 / **HBVL-R**

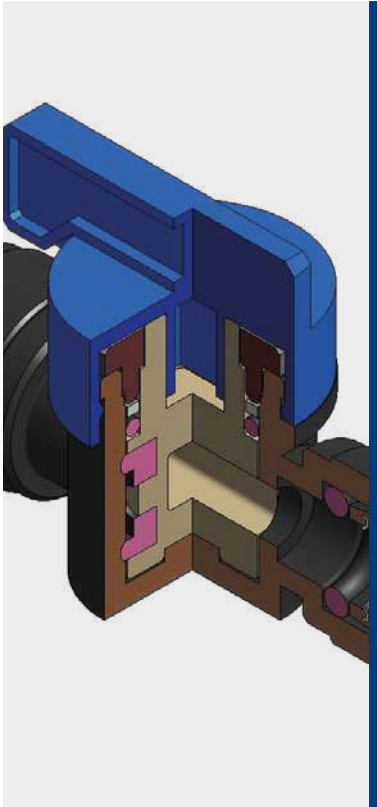


p. 422 / **HBVU-S**



p. 422 / **HMCP**





**Dry air:** -20°C ÷ 90°C  
**Air & Fluids:** 1°C ÷ 90°C  
 The maximum recommended working temperature for continuous use is 65°C and 90°C for a maximum use of 5 minutes.

**Working pressure:**  
 Up to 10 Bar  
 From 0 to 8 Bar with dry air  
**Negative pressure:**  
 - 0,95 Bar (- 95 Kpa)  
 Data depend from the tubes and temperature

Potable water, beverages, vacuum, compressed air, selected gases and liquids, compatible fluids with construction materials

Polyethylene PE, polyamide PA, polyurethane PU, PTFE, FEP  
**Tubes made of light metals:**  
 Brass, copper and mild steel  
**Tubes made of hard materials:** See page 84 for information on the use of hard material tubes

**Body:** POM  
**Collet:** POM  
**Lock claw:** Stainless steel  
 AISI 301  
**Seal:** EPDM suitable for food contact  
**Handle:** POM  
**Shaft:** POM

**HBVL-R:**  
 Taper gas BSPT ISO 7  
 R3/8"

Food contact materials  
 EC 1935/2004

D.M. 174/2004

WRAS  
 APPROVED PRODUCT  
 WRAS certified product materials in contact with drinking water

ICIM  
 CERTIFIED PRODUCT  
 FOOD CONTACT MATERIALS  
 ICIM certified product food contact materials

ICIM  
 CERTIFIED PRODUCT  
 WATER CONTACT MATERIALS  
 ICIM certified product water contact materials

ACS  
 ACS

NSF  
 NSF51 / NSF61  
 NSF certificate on behalf of CDC PNEUMATICS CORP.

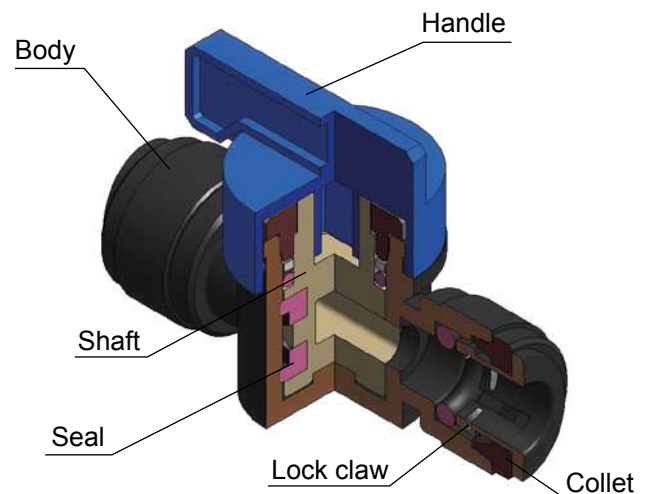
REACH  
 COMPLIANT  
 Products in compliance with EC Regulation 1907/2006

RoHS3  
 Products in compliance with the directive EU 2015/863

**INSERTION - METRIC TUBE**

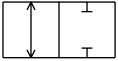
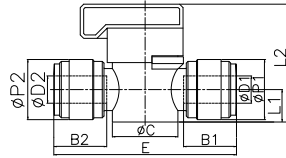
Ø TUBE (mm)	6	8	10	12
TUBE INSERTION LENGTH (mm)	15,5	17,5	20,1	24,7

**CONSTRUCTION DETAILS**



**HBVU**

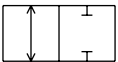
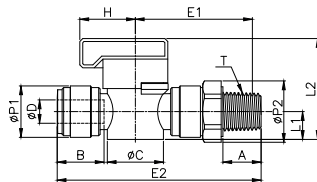
Two-ways union hand valve, flow tube-tube



CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E	ØC	g
HBVU0606B	6	6	16,1	16,1	15,5	15,5	9,5	34,5	51,7	19,2	16
HBVU0808B	8	8	17,5	17,5	17,6	17,6	9,5	34,5	53,5	19,2	17,4
HBVU1010B	10	10	20,1	20,1	20,0	20,0	12,5	42,3	63,0	24,2	29
HBVU1212B	12	12	23,7	23,7	23,0	23,0	12,5	42,3	70,4	24,2	35,4

**HBVL-R**

Two-ways hand valve BSPT thread, flow tube-thread

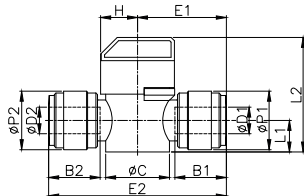


CODE	ØD	T	B	A	ØP1	ØP2	L1	L2	E1	E2	H	ØC	g
HBVL10R03B	10	R 3/8"	20,1	13,5	20	23	12,5	42,3	48,3	79,8	26,3	24,2	34,3

HBVL-R: product without WRAS certification

**HBVU-S**

Two-ways union hand valve with short handle, flow tube-tube

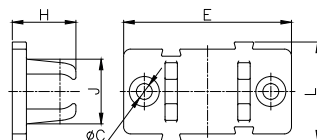


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E1	E2	H	ØC	g
HBVU-S0606B	6	6	16,1	16,1	15,5	15,5	9,5	34,5	25,9	51,7	11,1	19,2	15,8
HBVU-S0808B	8	8	17,5	17,5	17,6	17,6	9,5	34,5	26,8	53,5	11,1	19,2	17,2
HBVU-S1010B	10	10	20,1	20,1	20,0	20,0	12,5	42,3	31,5	63,0	13,7	24,2	28,6
HBVU-S1212B	12	12	23,7	23,7	23,0	23,0	12,5	42,3	35,2	70,4	13,7	24,2	35,0

HBVU-S: product without WRAS certification

**HMCP**

Modular brackets



CODE	E	L	H	J	ØC	g
HMCP06-1/4	47,5	28,0	18,0	18,3	4,5	3,8
HMCP10-3/8	55,2	34,0	22,0	22,0	4,5	6,3

HMCP06-1/4: compliant with HBVU-S Ø6  
HMCP10-3/8: compliant with HBVU-S Ø10

SIZES	WHITE	BLACK	GREY
06-1/4	HMCP06-1/4W	HMCP06-1/4B	HMCP06-1/4G
10-3/8	HMCP10-3/8W	HMCP10-3/8B	HMCP10-3/8G



# ACCESSORIES & AIR GUNS





p. 425  
**SILENCERS**



p. 435  
**DISTRIBUTION MANIFOLDS**

# TECHNICAL INDEX



p. 441  
**PRESSURE GAUGES**



p. 451  
**TANKS**  
**PED**



p. 455  
**SEALING FOR THREADED ELEMENTS**



p. 467  
**AIR GUN - CAF**



p. 471  
**AIR GUN - CB WITH HIGH FLOWRATE**



p. 475  
**AIR GUN - ALUMINUM PSF**



p. 479  
**UGPT-7 BLOW COMB COMPRESSED AIR**





# **ACCESSORIES & AIR GUNS SILENCERS**

**PLUS**

**WIDE TEMPERATURE RANGE  
THANKS TO MULTIPLE  
CONSTRUCTION MATERIALS**

---

**FILTRATION DEGREES BETWEEN 5  
AND 120 NM RESULT SUITABLE FOR  
PNEUMATIC APPLICATIONS**

---

**CONSTRUCTION QUALITY  
GUARANTEED BY RAW MATERIALS  
USED AND THE METICOLEOUS  
CONTROLS PERFORMED**

---

**EXCELLENT NOISE REDUCTION IN  
AUTOMATIC SYSTEMS**

---

**ALSO USED FOR SAFETY  
APPLICATIONS IN PNEUMATIC  
EQUIPMENT**





p. 428 / **6100**



p. 428 / **6150**



p. 428 / **6200**



p. 428 / **6250**



p. 429 / **6300**



p. 429 / **6350**



p. 429 / **6400**



p. 429 / **6450**



p. 430 / **6500**



p. 430 / **6550**



p. 430 / **6600**



p. 430 / **6650**



p. 431 / **6655**



p. 431 / **6670**



p. 431 / **6700**



p. 431 / **6750**



p. 432 / **6780**



p. 432 / **6820**



p. 432 / **6850**



p. 432 / **6880**

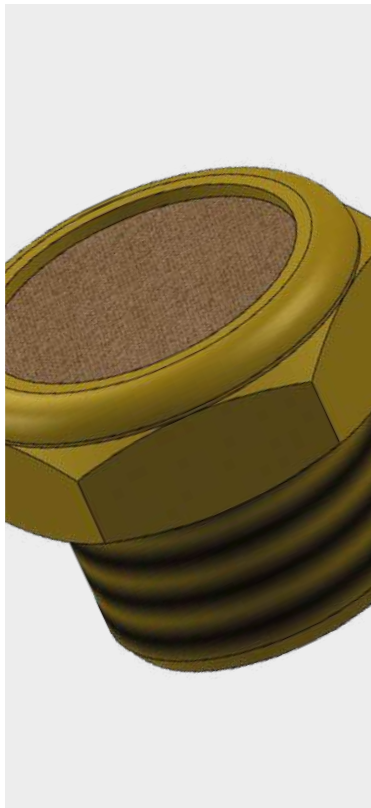


p. 433 / **6882**



p. 433 / **6885**





-20°C ÷ 80°C  
 -10°C ÷ 80°C (6650)  
 -10°C ÷ 50°C (6700 & 6750)  
 -40°C ÷ 200°C (6885)  
 -20°C ÷ 300°C (6880 & 6882)



**Working pressure:**  
 10 Bar  
 6 Bar (6700, 6750 and 6780)



Compressed air

#### NOISE LEVEL

Noise level in dB 4 & 6 Bar, indicated in the tables.



- Parallel gas BSPP ISO 228  
 from G1/8" to G1"  
 - Metric ISO 262  
 M5  
 - NPT  
 from N1/8" to N1"

6100, 6150, 6550, 6600: Sintered spherical bronze on copper-plated steel hexagonal base

6200, 6250, 6300, 6350, 6400, 6650, 6670: Sintered spherical bronze on brass hexagonal base

6420, 6500: Stainless steel AISI 304 wire on brass base

6700, 6750: Acetal resin

6780, 6655: Polyethylene

6820: Stainless steel AISI 304 wire on nylon base

6850: Stainless steel AISI 304

6885: Stainless steel AISI 316

6880, 6882: Stainless steel AISI 316L



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

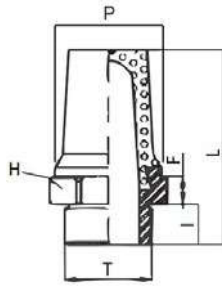
#### FEATURES

Silencers are used to reduce the noise levels in a pneumatic system, silencing the discharges of compressed air in the environment and reducing the valves noise during the operation.



**6100**

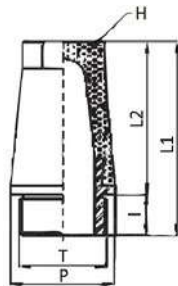
Sintered spherical bronze cone silencer on copper-plated steel hexagonal base



CODE	T	P	I	F	L	H	dB 4 Bar	dB 6 Bar	g
6100TRM5	M5x0,8	5,5	3,5	4,0	17,0	7	-	-	2,0
6100TR18	G 1/8"	10,5	4,5	3,8	21,0	12	76	79	6,0
6100TR14	G 1/4"	12,5	6,0	4,5	27,0	15	75	78	12,5
6100TR38	G 3/8"	17,0	7,0	5,4	35,0	19	81	82	23,0
6100TR12	G 1/2"	20,5	8,0	6,0	41,5	23	84	85	39,0
6100TR34	G 3/4"	26,5	9,0	7,5	54,0	30	90	94	78,5
6100TR1	G 1"	33,0	11,0	9,0	66,0	36	92	95	149,5

**6150**

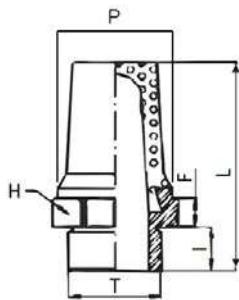
Sintered spherical bronze silencer with hexagonal cone on round copper-plated steel base



CODE	T	P	I	L1	L2	H	dB 4 Bar	dB 6 Bar	g
6150TR18	G 1/8"	11,5	4,5	22,5	18,0	8	77	80	6,5
6150TR14	G 1/4"	15,0	6,0	28,5	23,5	10	76	79	12,5
6150TR38	G 3/8"	19,0	7,0	36,0	29,0	13	82	83	23,5
6150TR12	G 1/2"	23,0	8,0	44,0	36,0	15	84	85	39,0
6150TR34	G 3/4"	30,0	9,0	56,0	47,0	19	91	95	77,5
6150TR1	G 1"	37,0	11,0	69,0	58,0	24	92	95	139,0

**6200**

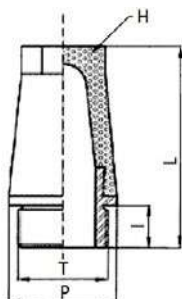
Sintered spherical bronze silencer with rebated cone on brass hexagonal base



CODE	T	P	I	F	L	H	dB 4 Bar	dB 6 Bar	g
6200TRM5	M5x0,8	4,0	3,5	3,0	17,0	8	-	-	2,5
6200TR18	G 1/8"	8,5	6,0	4,0	26,0	13	70	75	9,5
6200TR14	G 1/4"	10,5	8,0	5,0	34,0	16	75	81	16,5
6200TR38	G 3/8"	13,0	8,0	5,0	41,0	19	78	82	26,5
6200TR12	G 1/2"	18,0	10,0	6,0	46,0	24	81	85	46,5
6200TR34	G 3/4"	25,5	10,0	6,0	56,0	30	83	-	81,5
6200TR1	G 1"	30,5	10,0	6,0	66,0	36	84	-	134,0

**6250**

Sintered spherical bronze silencer with hexagonal cone head rebated on circular brass base

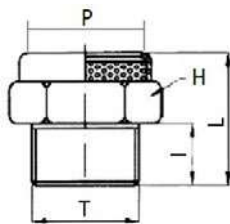


CODE	T	P	I	L	H	dB 4 Bar	dB 6 Bar	g
6250TR18	G 1/8"	13,0	7,0	27,0	6,0	70	75	8,5
6250TR14	G 1/4"	16,0	8,0	30,0	7,0	75	81	13
6250TR38	G 3/8"	19,0	8,0	40,0	10,0	78	82	23
6250TR12	G 1/2"	24,0	10,0	46,0	13,0	81	85	40
6250TR34	G 3/4"	30,0	10,0	54,0	17,0	83	-	73,5
6250TR1	G 1"	38,0	10,0	61,0	22,0	84	-	145



**6300**

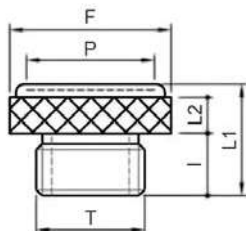
Sintered spherical bronze silencer with riveted pastille on brass hexagonal base



CODE	T	P	I	L	H	dB 4 Bar	dB 6 Bar	g
6300TRM5	M5x0,8	5,0	4,0	8,5	8	-	-	2,0
6300TR18	G 1/8"	9,0	6,0	12,0	13	70	73	6,5
6300TR14	G 1/4"	11,0	8,0	16,0	16	71	74	11,0
6300TR38	G 3/8"	14,0	8,0	17,0	19	83	85	16,5
6300TR12	G 1/2"	19,0	10,0	18,0	24	85	89	26,0
6300TR34	G 3/4"	25,0	10,0	19,0	30	87	89	39,5
6300TR1	G 1"	31,0	10,0	20,0	36	87	90	60,0

**6350**

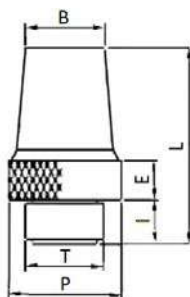
Sintered spherical bronze silencer with riveted pastille on circular knurled brass base



CODE	T	P	F	I	L1	L2	dB 4 Bar	dB 6 Bar	g
6350TR18	G 1/8"	8,0	13,0	7,0	13,0	4,0	70	73	7,0
6350TR14	G 1/4"	12,0	16,0	8,0	16,0	4,5	71	74	7,0
6350TR38	G 3/8"	15,0	19,0	8,0	14,0	5,0	83	85	10,0
6350TR12	G 1/2"	19,0	24,0	10,0	18,0	5,0	85	89	10,0
6350TR34	G 3/4"	24,0	30,0	10,0	18,0	5,0	87	89	12,0
6350TR1	G 1"	30,0	38,0	10,0	19,0	6,0	87	90	12,0

**6400**

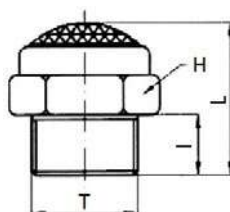
Sintered spherical bronze silencer with rebated cone on circular knurled brass base



CODE	T	P	I	B	E	L	dB 4 Bar	dB 6 Bar	g
6400TR18	G 1/8"	13,0	7,0	8,5	4,0	27,0	70	75	9
6400TR14	G 1/4"	16,0	8,0	11,0	4,5	34,0	75	81	13,5
6400TR38	G 3/8"	19,0	8,0	14,0	5,0	41,0	78	82	23
6400TR12	G 1/2"	24,0	10,0	17,0	5,0	46,0	81	85	45
6400TR34	G 3/4"	30,0	10,0	21,0	5,0	56,0	83	-	80
6400TR1	G 1"	38,0	10,0	26,5	6,0	66,0	84	-	133,5

**6450**

Silencer with stainless steel AISI 304 wire mesh on brass hexagonal base

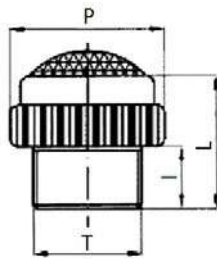


CODE	T	I	L	H	dB 4 Bar	dB 6 Bar	g
6450TRM5	M5x0,8	4,0	8,8	8,0	-	-	1,5
6450TR18	G 1/8"	6,0	15,0	13,0	70	74	6,0
6450TR14	G 1/4"	8,0	18,0	16,0	69	72	10,5
6450TR38	G 3/8"	8,0	20,0	19,0	85	88	16,5
6450TR12	G 1/2"	10,0	22,0	24,0	85	90	24,5
6450TR34	G 3/4"	10,0	26,0	30,0	86	90	37,0
6450TR1	G 1"	10,0	28,0	36,0	88	92	56,5



**6500**

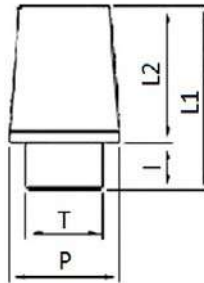
Silencer with stainless steel AISI 304 wire mesh on circular knurled brass base



CODE	T	P	I	L	dB 4 Bar	dB 6 Bar	g
6500TR18	G 1/8"	13,0	7,0	14,0	70	74	5
6500TR14	G 1/4"	16,0	8,0	18,0	69	72	8,5
6500TR38	G 3/8"	19,0	8,0	20,0	85	88	13,5
6500TR12	G 1/2"	24,0	10,0	22,0	85	90	23,5
6500TR34	G 3/4"	30,0	10,0	24,0	86	90	30,5
6500TR1	G 1"	38,0	10,5	27,0	88	92	57,5

**6550**

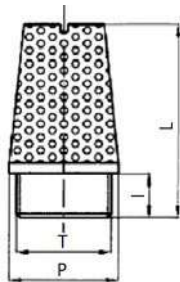
Sintered spherical bronze cone silencer on circular copper-plated steel base



CODE	T	P	I	L1	L2	dB 4 Bar	dB 6 Bar	g
6550TR18	G 1/8"	11,5	4,5	21,0	16,5	68	60	6,0
6550TR14	G 1/4"	15,0	6,0	25,0	19,0	65	67	11,5
6550TR38	G 3/8"	19,0	7,0	34,5	27,5	74	77	24,0
6550TR12	G 1/2"	23,0	8,0	43,0	35,0	76	80	44,5
6550TR34	G 3/4"	30,0	9,0	50,0	41,0	80	84	73,0
6550TR1	G 1"	37,0	11,0	60,5	49,5	82	85	137,5

**6600**

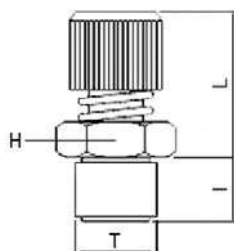
Sintered spherical bronze silencer with screwdriver-cut cone on round copper-plated steel base



CODE	T	P	I	L	dB 4 Bar	dB 6 Bar	g
6600TR18	G 1/8"	11,5	4,5	22,0	68	70	6,0
6600TR14	G 1/4"	15,0	6,0	26,0	65	67	13,0
6600TR38	G 3/8"	19,0	7,0	34,5	75	77	24,5
6600TR12	G 1/2"	23,0	8,0	43,0	76	80	42,0
6600TR34	G 3/4"	30,0	9,0	50,0	80	84	75,0
6600TR1	G 1"	37,0	11,0	60,5	82	85	136,0

**6650**

Regulated silencer with sintered bronze pastille

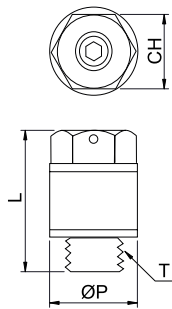


CODE	T	L MIN	L MAX	I	H	dB 4 Bar	dB 6 Bar	g
6650TR18	G 1/8"	20,0	22,0	6,0	13	69	72	16,0
6650TR14	G 1/4"	22,0	24,0	8,0	15	70	73	23,0
6650TR38	G 3/8"	25,0	28,0	10,0	22	82	84	48,0
6650TR12	G 1/2"	26,0	29,0	11,0	22	84	88	59,0



## 6655

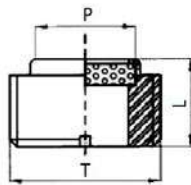
Silencer with a regulated flow in polyethylene



CODE	T	ØP	L	CH	dB 4 Bar	dB 6 Bar	g
6655TR18	G 1/8"	15	20,5	13	-	-	3,0
6655TR14	G 1/4"	18	29,0	15	-	-	6,0
6655TR38	G 3/8"	24	28,0	20	-	-	18,0
6655TR12	G 1/2"	30	50,0	25	-	-	45,0

## 6670

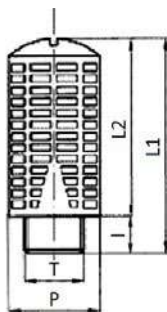
Sintered spherical bronze silencer with screwdriver



CODE	T	ØP	L	dB 4 Bar	dB 6 Bar	g
6670TR18	G 1/8"	6,0	5,0	69	72	1,37
6670TR14	G 1/4"	8,0	6,0	70	73	2,91
6670TR38	G 3/8"	10,0	7,0	82	84	6,33
6670TR12	G 1/2"	15,0	8,0	84	88	11,69
6670TR34	G 3/4"	20,0	9,0	85	88	14,56
6670TR1	G 1"	26,0	10,0	85	89	28,26

## 6700

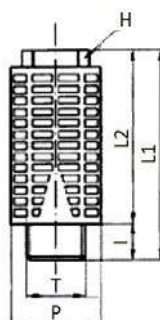
Dynamic acetal resin silencer with balls



CODE	T	P	I	L1	L2	dB 4 Bar	dB 6 Bar	g
6700TR18	G 1/8"	15	6	32,5	26,5	84	87	4,0
6700TR14	G 1/4"	19,5	8	43	35	81	84	8,0
6700TR38	G 3/8"	24,5	11	58	47	83	90	18,0
6700TR12	G 1/2"	24,5	11	58	47	83	90	19,0
6700TR34	G 3/4"	48	18	115	97	85	91	115,0
6700TR1	G 1"	48	18	115	97	85	90	115,0

## 6750

Static acetal resin silencer with felt inside

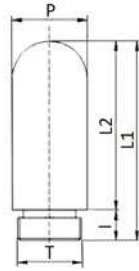


CODE	T	P	I	L1	L2	H	dB 4 Bar	dB 6 Bar	g
6750TR18	G 1/8"	16	6	34	28	10	85	87	4,0
6750TR14	G 1/4"	19	8	44	36	12	86	90	7,0
6750TR38	G 3/8"	24	10	56	47	16	87	92	14,0
6750TR12	G 1/2"	24	10	56	47	16	87	92	15,0



**6780**

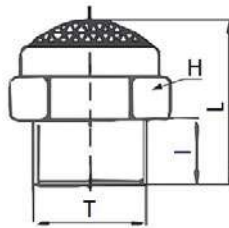
Polyethylene silencer



CODE	T	ØP	I	L1	L2	g
6780TRM5	M5x0,8	7,0	4,0	24,5	20,5	2,8
6780TR18	G 1/8"	13,0	7,5	32,5	25,0	3,7
6780TR14	G 1/4"	17,0	8,0	39,0	31,0	10,0
6780TR38	G 3/8"	25,0	11,0	65,0	54,0	13,5
6780TR12	G 1/2"	25,0	11,0	69,0	58,0	37,0
6780TR34	G 3/4"	37,0	15,5	138,0	122,5	47,0
6780TR1	G 1"	48,0	19,5	157,0	137,5	90,0

**6820**

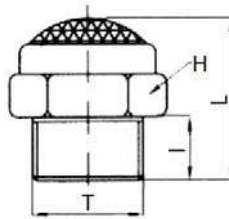
Silencer with stainless steel AISI 304 wire mesh on nylon base



CODE	T	I	L	H	dB 4 Bar	dB 6 Bar	g
6820TR18	G 1/8"	6	15	13	70	74	1,5
6820TR14	G 1/4"	8	20	16	69	72	2,8
6820TR38	G 3/8"	8	20	19	85	88	4,5
6820TR12	G 1/2"	10	22	24	85	90	7,5

**6850**

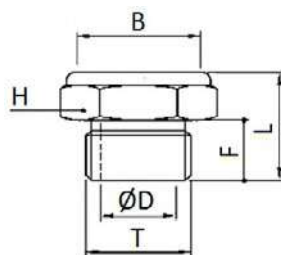
Silencer with stainless steel AISI 304 wire mesh on an stainless steel AISI 304 hexagonal



CODE	T	I	L	H	dB 4 Bar	dB 6 Bar	g
6850TR18	G 1/8"	6	15	13	70	74	5,0
6850TR14	G 1/4"	7	18	16	69	72	1,0
6850TR38	G 3/8"	8	20	19	85	88	1,5
6850TR12	G 1/2"	10	22	24	85	90	2,5
6850TR34	G 3/4"	10	26	30	86	90	4,0
6850TR1	G 1"	12	28	36	88	92	9,5

**6880**

Silencer with stainless steel AISI 316L mesh on stainless steel AISI 316L base - BSPP thread



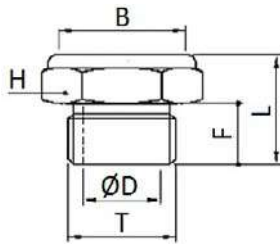
CODE	T	ØD	B	F	L	H	dB 4 Bar	dB 6 Bar	g
6880TR18	G 1/8"	6,0	10,0	8,0	15,0	14,0	-	-	8,0
6880TR14	G 1/4"	8,0	12,5	8,0	15,0	17,0	-	-	12,0
6880TR38	G 3/8"	12,0	17,5	10,0	18,0	22,0	-	-	20,0
6880TR12	G 1/2"	15,0	21,5	12,0	22,0	27,0	-	-	38,0
6880TR34	G 3/4"	20,0	28,0	15,0	27,0	32,0	-	-	62,0
6880TR1	G 1"	26,0	34,0	18,0	32,0	41,0	-	-	118,0





**6882**

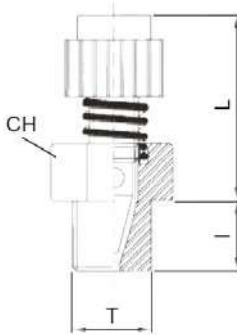
Silencer with stainless steel AISI 316L mesh on stainless steel AISI 316L base - NPT thread



CODE	T	ØD	B	F	L	H	dB 4 Bar	dB 6 Bar	g
6882TR18	N 1/8"	6,0	9,0	7,0	14,0	14,0	-	-	8,0
6882TR14	N 1/4"	8,0	13,0	11,0	18,0	17,0	-	-	12,0
6882TR38	N 3/8"	12,0	18,0	11,0	18,0	22,0	-	-	20,0
6882TR12	N 1/2"	15,0	22,5	15,0	25,0	27,0	-	-	38,0
6882TR34	N 3/4"	20,0	28,0	16,0	27,0	32,0	-	-	62,0
6882TR1	N 1"	26,0	34,0	19,0	32,0	41,0	-	-	118,0

**6885**

Regulated silencer with stainless steel AISI 316 wire mesh on stainless steel AISI 316 hexagonal



CODE	T	I	L min	L max	CH	dB 4 Bar	dB 6 Bar
6885TR18	G 1/8"	6	20,0	22,0	13	69	72
6885TR14	G 1/4"	8	22,0	24,0	15	70	73





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p. 438 / **4100**

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p. 438 / **4150**

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p. 439 / **4200**

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**DISTRIBUTION MANIFOLDS / STAINLESS STEEL AISI 304**

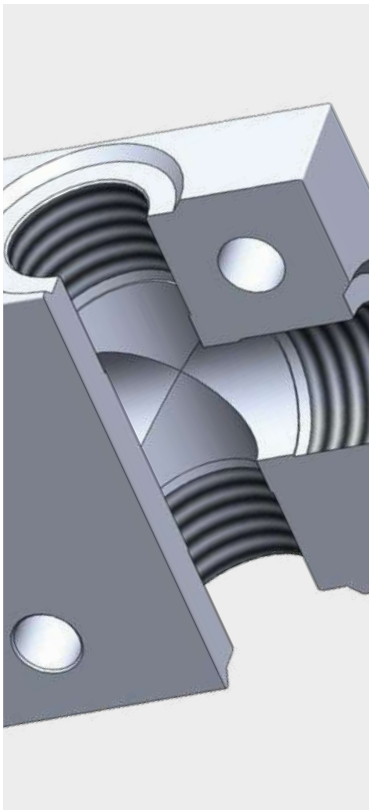
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p. 440 / **4150TRX**


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 -10°C ÷ 80°C

 Working pressure:  
20 Bar

 Compressed air and fluids  
suitable with construction  
materials

 - Parallel gas BSPP ISO 228  
from G1/8" to G1/2"  
- Metric ISO 262  
M5

 Body: Anodized aluminium (4100)  
Aluminium (4150 and 4200)

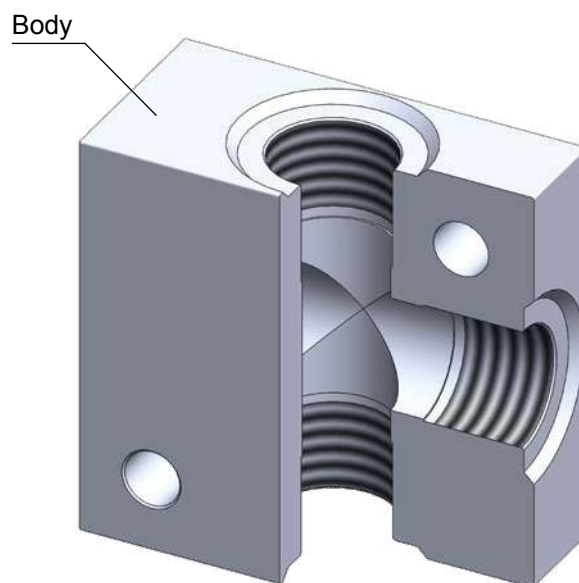
**AVAILABILITY:**  
Customized manifolds available on request

 Products in compliance with  
EC Regulation 1907/2006



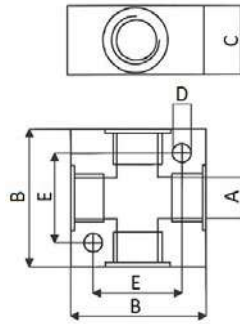
 Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**4100**

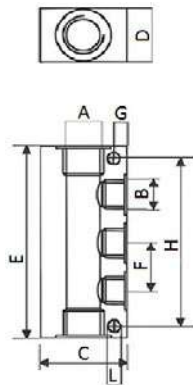
Anodized aluminium cross manifold



CODE	A	B	C	D	E	g
4100TR18-A	G 1/8"	25,0	15,0	4,5	17,0	17,5
4100TR14-A	G 1/4"	40,0	20,0	5,5	26,0	60,0
4100TR38	G 3/8"	40,0	25,0	5,5	26,0	70,0
4100TR38-A	G 3/8"	50,0	25,0	5,5	34,0	95,0
4100TR12-A	G 1/2"	50,0	30,0	5,5	34,0	129,0

**4150**

Aluminium distribution manifold with single outputs

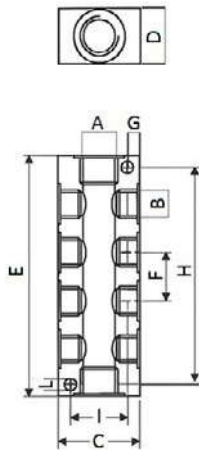


CODE	A	B	C	D	E	F	G	H	L	g
4150TR18M52	G 1/8"	M5-2	25,0	15,0	45,0	15,0	3,5	33,0	4,5	38,0
4150TR18M53	G 1/8"	M5-3	25,0	15,0	60,0	15,0	3,5	48,0	4,5	50,0
4150TR18M54	G 1/8"	M5-4	25,0	15,0	75,0	15,0	3,5	63,0	4,5	64,0
4150TR18M55	G 1/8"	M5-5	25,0	15,0	90,0	15,0	3,5	78,0	4,5	79,0
4150TR18M56	G 1/8"	M5-6	25,0	15,0	105,0	15,0	3,5	93,0	4,5	90,0
4150TR14182	G 1/4"	G 1/8*2	30,0	20,0	54,0	18,0	4,5	45,0	4,5	64,0
4150TR14183	G 1/4"	G 1/8*3	30,0	20,0	72,0	18,0	4,5	63,0	4,5	86,0
4150TR14184	G 1/4"	G 1/8*4	30,0	20,0	90,0	18,0	4,5	81,0	4,5	110,0
4150TR14185	G 1/4"	G 1/8*5	30,0	20,0	108,0	18,0	4,5	99,0	4,5	130,0
4150TR14186	G 1/4"	G 1/8*6	30,0	20,0	126,0	18,0	4,5	117,0	4,5	154,0
4150TR38142	G 3/8"	G 1/4*2	40,0	25,0	68,0	24,0	6,0	51,0	5,5	136,0
4150TR38143	G 3/8"	G 1/4*3	40,0	25,0	92,0	24,0	6,0	75,0	5,5	184,0
4150TR38144	G 3/8"	G 1/4*4	40,0	25,0	116,0	24,0	6,0	99,0	5,5	238,0
4150TR38145	G 3/8"	G 1/4*5	40,0	25,0	140,0	24,0	6,0	123,0	5,5	298,0
4150TR38146	G 3/8"	G 1/4*6	40,0	25,0	164,0	24,0	6,0	147,0	5,5	338,0
4150TR12382	G 1/2"	G 3/8*2	50,0	30,0	78,0	26,0	6,5	59,0	5,5	228,0
4150TR12383	G 1/2"	G 3/8*3	50,0	30,0	104,0	26,0	6,5	85,0	5,5	304,0
4150TR12384	G 1/2"	G 3/8*4	50,0	30,0	130,0	26,0	6,5	111,0	5,5	380,0
4150TR12385	G 1/2"	G 3/8*5	50,0	30,0	156,0	26,0	6,5	137,0	5,5	456,0
4150TR12386	G 1/2"	G 3/8*6	50,0	30,0	182,0	26,0	6,5	163,0	5,5	530,0
4150TR12122	G 1/2"	G 1/2*2	50,0	30,0	102,0	34,0	6,5	83,0	5,5	292,0
4150TR12123	G 1/2"	G 1/2*3	50,0	30,0	136,0	34,0	6,5	117,0	5,5	392,0
4150TR12124	G 1/2"	G 1/2*4	50,0	30,0	170,0	34,0	6,5	151,0	5,5	488,0
4150TR12125	G 1/2"	G 1/2*5	50,0	30,0	204,0	34,0	6,5	185,0	5,5	584,0
4150TR12126	G 1/2"	G 1/2*6	50,0	30,0	238,0	34,0	6,5	219,0	5,5	682,0



## 4200

## Aluminium distribution manifold with double outputs



CODE	A	B	C	D	E	F	G	H	L	I	g
4200TR18M522	G 1/8"	M5-2+2	25,0	15,0	45,0	15,0	3,5	33,0	4,5	18,0	37,0
4200TR18M533	G 1/8"	M5-3+3	25,0	15,0	60,0	15,0	3,5	48,0	4,5	18,0	50,0
4200TR18M544	G 1/8"	M5-4+4	25,0	15,0	75,0	15,0	3,5	63,0	4,5	18,0	62,0
4200TR18M555	G 1/8"	M5-5+5	25,0	15,0	90,0	15,0	3,5	78,0	4,5	18,0	74,0
4200TR18M566	G 1/8"	M5-6+6	25,0	15,0	105,0	15,0	3,5	93,0	4,5	18,0	98,0
4200TR141822	G 1/4"	G 1/8"-2+2	30,0	20,0	54,0	18,0	4,5	45,0	4,5	21,0	60,0
4200TR141833	G 1/4"	G 1/8"-3+3	30,0	20,0	72,0	18,0	4,5	63,0	4,5	21,0	81,0
4200TR141844	G 1/4"	G 1/8"-4+4	30,0	20,0	90,0	18,0	4,5	81,0	4,5	21,0	100,0
4200TR141855	G 1/4"	G 1/8"-5+5	30,0	20,0	108,0	18,0	4,5	99,0	4,5	21,0	122,0
4200TR141866	G 1/4"	G 1/8"-6+6	30,0	20,0	126,0	18,0	4,5	117,0	4,5	21,0	142,0
4200TR381422	G 3/8"	G 1/4"-2+2	40,0	25,0	68,0	24,0	6	51,0	5,5	28,0	127,0
4200TR381433	G 3/8"	G 1/4"-3+3	40,0	25,0	92,0	24,0	6	75,0	5,5	28,0	170,0
4200TR381444	G 3/8"	G 1/4"-4+4	40,0	25,0	116,0	24,0	6	99,0	5,5	28,0	216,0
4200TR381455	G 3/8"	G 1/4"-5+5	40,0	25,0	140,0	24,0	6	123,0	5,5	28,0	266,0
4200TR381466	G 3/8"	G 1/4"-6+6	40,0	25,0	164,0	24,0	6	147,0	5,5	28,0	312,0
4200TR123822	G 1/2"	G 3/8"-2+2	50,0	30,0	78,0	26,0	6,5	59,0	5,5	37,0	210,0
4200TR123833	G 1/2"	G 3/8"-3+3	50,0	30,0	104,0	26,0	6,5	85,0	5,5	37,0	278,0
4200TR123844	G 1/2"	G 3/8"-4+4	50,0	30,0	130,0	26,0	6,5	111,0	5,5	37,0	344,0
4200TR123855	G 1/2"	G 3/8"-5+5	50,0	30,0	156,0	26,0	6,5	137,0	5,5	37,0	412,0
4200TR123866	G 1/2"	G 3/8"-6+6	50,0	30,0	182,0	26,0	6,5	163,0	5,5	37,0	478,0
4200TR121222	G 1/2"	G 1/2"-2+2	50,0	30,0	102,0	34,0	6,5	83,0	5,5	37,0	268,0
4200TR121233	G 1/2"	G 1/2"-3+3	50,0	30,0	136,0	34,0	6,5	117,0	5,5	37,0	348,0
4200TR121244	G 1/2"	G 1/2"-4+4	50,0	30,0	170,0	34,0	6,5	151,0	5,5	37,0	430,0
4200TR121255	G 1/2"	G 1/2"-5+5	50,0	30,0	204,0	34,0	6,5	185,0	5,5	37,0	512,0
4200TR121266	G 1/2"	G 1/2"-6+6	50,0	30,0	238,0	34,0	6,5	219,0	5,5	37,0	596,0





-25°C ÷ 100°C  
Below 0°C in the presence of water with antifreeze glycol



**Working pressure:**  
Up to 25 Bar



Compressed air, water, oil and fluids suitable with construction materials



**Inlet thread:**  
Parallel gas BSPP ISO 228 from G1-1/2" to G2"  
**Outlet thread:**  
Taper gas BSPT ISO 7 R3/4"  
**Pressure Gauge thread:**  
Parallel gas BSPP ISO 228 G1/2"



**Body:** Stainless steel AISI 304 with treatment of electropolishing



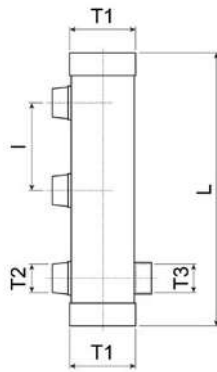
Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

## 4150TRX

### Stainless steel AISI 304 distribution manifold



CODE	T1	T2	T3	I	L	N° HOLES
4150TRX112344	G 1-1/2"	R 3/4"	G 1/2"	70,0	291,0	4
4150TRX112345	G 1-1/2"	R 3/4"	G 1/2"	70,0	361,0	5
4150TRX112346	G 1-1/2"	R 3/4"	G 1/2"	70,0	431,0	6
4150TRX112347	G 1-1/2"	R 3/4"	G 1/2"	70,0	501,0	7
4150TRX112348	G 1-1/2"	R 3/4"	G 1/2"	70,0	571,0	8
4150TRX112349	G 1-1/2"	R 3/4"	G 1/2"	70,0	641,0	9
4150TRX1123410	G 1-1/2"	R 3/4"	G 1/2"	70,0	711,0	10
4150TRX1123411	G 1-1/2"	R 3/4"	G 1/2"	70,0	781,0	11
4150TRX1123412	G 1-1/2"	R 3/4"	G 1/2"	70,0	851,0	12
4150TRX1123413	G 1-1/2"	R 3/4"	G 1/2"	70,0	921,0	13
4150TRX1123414	G 1-1/2"	R 3/4"	G 1/2"	70,0	991,0	14
4150TRX2344	G 2"	R 3/4"	G 1/2"	70,0	299,0	4
4150TRX2345	G 2"	R 3/4"	G 1/2"	70,0	369,0	5
4150TRX2346	G 2"	R 3/4"	G 1/2"	70,0	439,0	6
4150TRX2347	G 2"	R 3/4"	G 1/2"	70,0	509,0	7
4150TRX2348	G 2"	R 3/4"	G 1/2"	70,0	579,0	8
4150TRX2349	G 2"	R 3/4"	G 1/2"	70,0	649,0	9
4150TRX23410	G 2"	R 3/4"	G 1/2"	70,0	719,0	10
4150TRX23411	G 2"	R 3/4"	G 1/2"	70,0	789,0	11
4150TRX23412	G 2"	R 3/4"	G 1/2"	70,0	859,0	12
4150TRX23413	G 2"	R 3/4"	G 1/2"	70,0	929,0	13
4150TRX23414	G 2"	R 3/4"	G 1/2"	70,0	999,0	14

**T1 & T3: Female thread**  
**T2: Male thread**





**ACCESSORIES &  
AIR GUNS  
PRESSURE  
GAUGES**

**PLUS**

**WIDE RANGE TO SATISFY MULTIPLE  
USES IN INDUSTRIAL SECTOR**

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**POSSIBILITY OF CHOICE WITH A  
WIDE PRESSURE RANGE**

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**DESIGN IN DIFFERENT MATERIALS  
FOR DIFFERENT USES**





p. 443 / **MABR**



p. 444 / **MABP**



p. 446 / **MXBR**



p. 447 / **MXBP**



p. 448 / **MXBF**



p. 448 / **MXBS**




p. 450 / **MXXR**





p. 450 / **MXXP**






 -20°C ÷ 60°C

 **Working pressure:**  
Max. 3/4 of full scale value  
for static pressure.  
100% of full scale value for  
short time.

 Air, gases and fluids suitable  
with construction materials

 Taper gas BSPT ISO 7  
R1/8" and R1/4"

**DEGREE PROTECTION\***  
IP 32 (EN 60 529)  
\*To be requested when you order

**Connection:** Brass  
**Measuring element:** Copper alloy  
**Movement:** Brass  
**Dial:** Plastic with white background  
**Pointer:** Black plastic  
**Case:** ABS shock-resistant  
**Window:** Plastic

**APPLICATIONS**

- For gases and liquids which are not highly viscous, do not crystallize and are not aggressive to copper alloys.
- For measuring points subject to vibration and high pressures.
- To measure gases or vapor, these instruments must be used in compliance with the standards EN 837-2.

 Products in compliance with EC Regulation 1907/2006  
Products in compliance with the directive EU 2015/863

**MABR**

Dry pressure gauge for industry with ABS case, EN 837-1, radial connection, BSPT thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	ACCURACY
* MABR40R0120	R 1/8"	40	-1,0	CLASS 2,5
MABR40R0132	R 1/8"	40	0-1	
MABR40R0133	R 1/8"	40	0-1,6	
MABR40R0134	R 1/8"	40	0-2,5	
MABR40R0135	R 1/8"	40	0-4	
MABR40R0136	R 1/8"	40	0-6	
MABR40R0137	R 1/8"	40	0-10	
MABR40R0138	R 1/8"	40	0-12	
MABR40R0139	R 1/8"	40	0-16	
MABR40R0140	R 1/8"	40	0-25	
MABR50R0234	R 1/4"	50	0-2,5	
MABR50R0235	R 1/4"	50	0-4	
MABR50R0236	R 1/4"	50	0-6	
MABR50R0238	R 1/4"	50	0-12	
MABR50R0239	R 1/4"	50	0-16	
MABR50R0240	R 1/4"	50	0-25	
MABR63R0220	R 1/4"	63	-1,0	
MABR63R0232	R 1/4"	63	0-1,0	
MABR63R0233	R 1/4"	63	0-1,6	
MABR63R0234	R 1/4"	63	0-2,5	
MABR63R0235	R 1/4"	63	0-4	
MABR63R0236	R 1/4"	63	0-6	
MABR63R0237	R 1/4"	63	0-10	
MABR63R0238	R 1/4"	63	0-12	
MABR63R0239	R 1/4"	63	0-16	
MABR63R0240	R 1/4"	63	0-25	

\* Vacuum gauge



**MABP**

Dry pressure gauge for industry with ABS case, EN 837-1, back connection, BSPT thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	ACCURACY
* MABP40R0120	R 1/8"	40	-1,0	CLASS 2,5
MABP40R0132	R 1/8"	40	0-1,0	
MABP40R0133	R 1/8"	40	0-1,6	
MABP40R0134	R 1/8"	40	0-2,5	
MABP40R0135	R 1/8"	40	0-4	
MABP40R0136	R 1/8"	40	0-6	
MABP40R0137	R 1/8"	40	0-10	
MABP40R0138	R 1/8"	40	0-12	
MABP40R0139	R 1/8"	40	0-16	
MABP40R0140	R 1/8"	40	0-25	
MABP40R0143	R 1/8"	40	0-100	
MABP50R0120	R 1/8"	50	-1,0	
MABP50R0132	R 1/8"	50	0-1,0	
MABP50R0133	R 1/8"	50	0-1,6	
MABP50R0134	R 1/8"	50	0-2,5	
MABP50R0135	R 1/8"	50	0-4	
MABP50R0136	R 1/8"	50	0-6	
MABP50R0138	R 1/8"	50	0-12	
MABP50R0139	R 1/8"	50	0-16	
MABP50R0140	R 1/8"	50	0-25	
MABP50R0234	R 1/4"	50	0-2,5	
MABP50R0235	R 1/4"	50	0-4	
MABP50R0236	R 1/4"	50	0-6	
MABP50R0238	R 1/4"	50	0-12	
MABP50R0239	R 1/4"	50	0-16	
MABP50R0240	R 1/4"	50	0-25	
MABP63R0220	R 1/4"	63	-1,0	
MABP63R0232	R 1/4"	63	0-1,0	
MABP63R0233	R 1/4"	63	0-1,6	
MABP63R0234	R 1/4"	63	0-2,5	
MABP63R0235	R 1/4"	63	0-4	
MABP63R0236	R 1/4"	63	0-6	
MABP63R0237	R 1/4"	63	0-10	
MABP63R0238	R 1/4"	63	0-12	
MABP63R0239	R 1/4"	63	0-16	
MABP63R0240	R 1/4"	63	0-25	
MABP63R0245	R 1/4"	63	0-250	

\* Vacuum gauge



**DEGREE PROTECTION\***

IP 65 (EN 60 529)

IP 54 (25 Bar) plug allows air release from the case

\*To be requested when you order



-20°C ÷ 60°C

**Working pressure:**

Max 3/4 of full scale value for static pressures.

Max. 2/3 of full scale value for water hammer pressures.  
100% of full scale value for short time.

Air, gases and fluids suitable for construction materials

Parallel gas BSPP ISO 228  
G1/8" and G1/4"**Connection:** Brass**Measuring element:** Copper alloy**Movement:** Brass**Dial:** Plastic with white background**Pointer:** Black aluminium**Case:** Stainless steel AISI 304**Ring:** Stainless steel AISI 304**Window:** Plastic**APPLICATIONS**

- For gases and liquids which are not highly viscous, do not crystallize and are not aggressive to copper alloys.
- For measuring points subject to vibration and high pressures.
- To measure gases or vapor, these instruments must be used in compliance with the standards EN 837-2.

Products in compliance with  
EC Regulation 1907/2006Products in compliance with  
the directive EU 2015/863

**MXBR**

Glycerine pressure gauge with case stainless steel AISI 304, EN 837-1, radial connection, BSPP thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	ACCURACY
MXBR40G0135	G 1/8"	40	0-4	CLASS 2,5
MXBR40G0136	G 1/8"	40	0-6	
MXBR40G0137	G 1/8"	40	0-10	
MXBR40G0139	G 1/8"	40	0-16	
MXBR40G0140	G 1/8"	40	0-25	
MXBR40G0142	G 1/8"	40	0-60	
MXBR40G0143	G 1/8"	40	0-100	
MXBR40G0144	G 1/8"	40	0-160	
MXBR40G0145	G 1/8"	40	0-250	
MXBR40G0147	G 1/8"	40	0-400	
MXBR50G0234	G 1/4"	50	0-2,5	
MXBR50G0235	G 1/4"	50	0-4	
MXBR50G0236	G 1/4"	50	0-6	
MXBR50G0237	G 1/4"	50	0-10	
MXBR50G0239	G 1/4"	50	0-16	
MXBR50G0240	G 1/4"	50	0-25	
MXBR50G0241	G 1/4"	50	0-40	
MXBR50G0242	G 1/4"	50	0-60	
MXBR50G0243	G 1/4"	50	0-100	
MXBR50G0244	G 1/4"	50	0-160	
MXBR50G0245	G 1/4"	50	0-250	
MXBR50G0247	G 1/4"	50	0-400	
MXBR63G0220	G 1/4"	63	-1-0	CLASS 1,6
MXBR63G0232	G 1/4"	63	0-1,0	
MXBR63G0233	G 1/4"	63	0-1,6	
MXBR63G0234	G 1/4"	63	0-2,5	
MXBR63G0235	G 1/4"	63	0-4	
MXBR63G0236	G 1/4"	63	0-6	
MXBR63G0237	G 1/4"	63	0-10	
MXBR63G0239	G 1/4"	63	0-16	
MXBR63G0240	G 1/4"	63	0-25	
MXBR63G0241	G 1/4"	63	0-40	
MXBR63G0242	G 1/4"	63	0-60	
MXBR63G0243	G 1/4"	63	0-100	
MXBR63G0244	G 1/4"	63	0-160	
MXBR63G0245	G 1/4"	63	0-250	
MXBR63G0246	G 1/4"	63	0-315	
MXBR63G0247	G 1/4"	63	0-400	
MXBR63G0248	G 1/4"	63	0-600	
MXBR63G0250	G 1/4"	63	0-1000	



**MXBP**

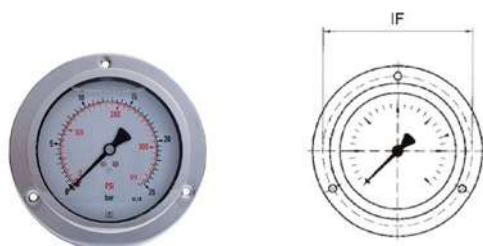
Glycerine pressure gauge with stainless steel case AISI 304, EN 837-1, back connection, BSPP thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	ACCURACY
MXBP40G0135	G 1/8"	40	0-4	CLASS 2,5
MXBP40G0136	G 1/8"	40	0-6	
MXBP40G0137	G 1/8"	40	0-10	
MXBP40G0139	G 1/8"	40	0-16	
MXBP40G0140	G 1/8"	40	0-25	
MXBP40G0142	G 1/8"	40	0-60	
MXBP40G0143	G 1/8"	40	0-100	
MXBP40G0144	G 1/8"	40	0-160	
MXBP40G0145	G 1/8"	40	0-250	
MXBP40G0147	G 1/8"	40	0-400	
MXBP40G0148	G 1/8"	40	0-600	
MXBP50G0234	G 1/4"	50	0-2,5	
MXBP50G0235	G 1/4"	50	0-4	
MXBP50G0236	G 1/4"	50	0-6	
MXBP50G0237	G 1/4"	50	0-10	
MXBP50G0239	G 1/4"	50	0-16	
MXBP50G0240	G 1/4"	50	0-25	
MXBP50G0241	G 1/4"	50	0-40	
MXBP50G0242	G 1/4"	50	0-60	
MXBP50G0243	G 1/4"	50	0-100	
MXBP50G0244	G 1/4"	50	0-160	
MXBP50G0245	G 1/4"	50	0-250	
MXBP63G0220	G 1/4"	63	-1-0	CLASS 1,6
MXBP63G0232	G 1/4"	63	0-1,0	
MXBP63G0233	G 1/4"	63	0-1,6	
MXBP63G0234	G 1/4"	63	0-2,5	
MXBP63G0235	G 1/4"	63	0-4	
MXBP63G0236	G 1/4"	63	0-6	
MXBP63G0237	G 1/4"	63	0-10	
MXBP63G0239	G 1/4"	63	0-16	
MXBP63G0240	G 1/4"	63	0-25	
MXBP63G0241	G 1/4"	63	0-40	
MXBP63G0242	G 1/4"	63	0-60	
MXBP63G0243	G 1/4"	63	0-100	
MXBP63G0244	G 1/4"	63	0-160	
MXBP63G0245	G 1/4"	63	0-250	
MXBP63G0246	G 1/4"	63	0-315	
MXBP63G0247	G 1/4"	63	0-400	
MXBP63G0248	G 1/4"	63	0-600	



**MXBF** Glycerine pressure gauge with 3 holes flange and case stainless steel AISI 304, EN 837-1, BSPP thread

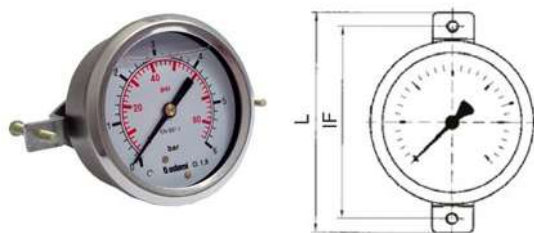


CODE	CONNECTION THREAD	Ø CASE	SCALE	IF WHEELBASES	ACCURACY
* MXBF63G0220	G 1/4"	63	-1,0	75,0	CLASS 1,6
MXBF63G0232	G 1/4"	63	0-1,0	75,0	
MXBF63G0233	G 1/4"	63	0-1,6	75,0	
MXBF63G0234	G 1/4"	63	0-2,5	75,0	
MXBF63G0235	G 1/4"	63	0-4	75,0	
MXBF63G0236	G 1/4"	63	0-6	75,0	
MXBF63G0237	G 1/4"	63	0-10	75,0	
MXBF63G0239	G 1/4"	63	0-16	75,0	
MXBF63G0240	G 1/4"	63	0-25	75,0	
MXBF63G0241	G 1/4"	63	0-40	75,0	
MXBF63G0242	G 1/4"	63	0-60	75,0	
MXBF63G0243	G 1/4"	63	0-100	75,0	
MXBF63G0244	G 1/4"	63	0-160	75,0	
MXBF63G0245	G 1/4"	63	0-250	75,0	
MXBF63G0246	G 1/4"	63	0-315	75,0	
MXBF63G0247	G 1/4"	63	0-400	75,0	
MXBF63G0248	G 1/4"	63	0-600	75,0	
MXBF63G0250	G 1/4"	63	0-1000	75,0	

\* Vacuum gauge

Flange fixing holes Ø: 3,6 mm

**MXBS** Glycerine pressure gauge with bracket, case stainless steel AISI 304, EN 837-1, BSPP thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	IF WHEELBASES	L	ACCURACY
* MXBS63G0220	G 1/4"	63	-1,0	82,0	94,0	CLASS 1,6
MXBS63G0232	G 1/4"	63	0-1,0	82,0	94,0	
MXBS63G0233	G 1/4"	63	0-1,6	82,0	94,0	
MXBS63G0234	G 1/4"	63	0-2,5	82,0	94,0	
MXBS63G0235	G 1/4"	63	0-4	82,0	94,0	
MXBS63G0236	G 1/4"	63	0-6	82,0	94,0	
MXBS63G0237	G 1/4"	63	0-10	82,0	94,0	
MXBS63G0239	G 1/4"	63	0-16	82,0	94,0	
MXBS63G0240	G 1/4"	63	0-25	82,0	94,0	
MXBS63G0241	G 1/4"	63	0-40	82,0	94,0	
MXBS63G0242	G 1/4"	63	0-60	82,0	94,0	
MXBS63G0243	G 1/4"	63	0-100	82,0	94,0	
MXBS63G0244	G 1/4"	63	0-160	82,0	94,0	
MXBS63G0245	G 1/4"	63	0-250	82,0	94,0	
MXBS63G0246	G 1/4"	63	0-315	82,0	94,0	
MXBS63G0247	G 1/4"	63	0-400	82,0	94,0	
MXBS63G0248	G 1/4"	63	0-600	82,0	94,0	
MXBS63G0250	G 1/4"	63	0-1000	82,0	94,0	

\* Vacuum gauge

Flange fixing holes Ø: 3,6 mm







**Environment temperature:**  
Max 150°C  
**Working temperature:**  
-20°C ÷ 60°C



**Working pressure:**  
Max 3/4 of full scale value for static pressures.  
Max. 2/3 of full scale value for water hammer pressures (when using a glycerine bath pressure gauge).  
100% of full scale value for short time.



Air, gases and fluids suitable with construction materials



Parallel gas BSPP ISO 228  
G1/8" and R1/4"

**Connection:** Stainless steel AISI 316L  
**Measuring elements:** Stainless steel AISI 316L

**Movement:** Stainless steel

**Dial:** Plastic with white background

**Pointer:** Black aluminium

**Case:** Stainless steel AISI 304

**Ring Ø63:** Stainless steel AISI 304

**Ring Ø100:** Bayonet in stainless steel AISI 304

**Window:** Double-layer safety glass



#### APPLICATIONS

- For gases and liquids which are not highly viscous, do not crystallize and are not aggressive to copper alloys.
- For measuring points subject to vibration and high pressures.
- To measure gases or vapor, these instruments must be used in compliance with the standards EN 837-2.

#### AVAILABILITY

Available on request with glycerine bath

#### DEGREE PROTECTION\*

IP 65 (EN 60 529)

IP 54 (25 Bar) plug allows air release from the case

\*To be requested when you order



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863



**MXXR**

All stainless steel dry pressure gauge, EN 837-1, radial connection, BSPP thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	ACCURACY
* MXXR63G0220	G 1/4"	63	-1,0	CLASS 1,6
MXXR63G0232	G 1/4"	63	0-1,0	
MXXR63G0233	G 1/4"	63	0-1,6	
MXXR63G0234	G 1/4"	63	0-2,5	
MXXR63G0235	G 1/4"	63	0-4	
MXXR63G0236	G 1/4"	63	0-6	
MXXR63G0237	G 1/4"	63	0-10	
MXXR63G0239	G 1/4"	63	0-16	
MXXR63G0240	G 1/4"	63	0-25	
MXXR63G0241	G 1/4"	63	0-40	
MXXR63G0242	G 1/4"	63	0-60	
MXXR63G0243	G 1/4"	63	0-100	
MXXR63G0244	G 1/4"	63	0-160	
MXXR63G0245	G 1/4"	63	0-250	
MXXR100G0220	G 1/2"	100	-1,0	
MXXR100G0432	G 1/2"	100	0-1,0	
MXXR100G0433	G 1/2"	100	0-1,6	
MXXR100G0434	G 1/2"	100	0-2,5	
MXXR100G0435	G 1/2"	100	0-4	
MXXR100G0436	G 1/2"	100	0-6	
MXXR100G0437	G 1/2"	100	0-10	
MXXR100G0439	G 1/2"	100	0-16	
MXXR100G0440	G 1/2"	100	0-25	
MXXR100G0441	G 1/2"	100	0-40	
MXXR100G0442	G 1/2"	100	0-60	
MXXR100G0443	G 1/2"	100	0-100	

\* Vacuum gauge

**MXXP**

All stainless steel dry pressure gauge, EN 837-1, back connection, BSPP thread



CODE	CONNECTION THREAD	Ø CASE	SCALE	ACCURACY
* MXXP63G0220	G 1/4"	63	-1,0	CLASS 1,6
MXXP63G0232	G 1/4"	63	0-1,0	
MXXP63G0233	G 1/4"	63	0-1,6	
MXXP63G0234	G 1/4"	63	0-2,5	
MXXP63G0235	G 1/4"	63	0-4	
MXXP63G0236	G 1/4"	63	0-6	
MXXP63G0237	G 1/4"	63	0-10	
MXXP63G0239	G 1/4"	63	0-16	
MXXP63G0240	G 1/4"	63	0-25	
MXXP63G0241	G 1/4"	63	0-40	
MXXP63G0242	G 1/4"	63	0-60	
MXXP63G0243	G 1/4"	63	0-100	
MXXP63G0244	G 1/4"	63	0-160	
MXXP63G0245	G 1/4"	63	0-250	

\* Vacuum gauge



# **ACCESSORIES & AIR GUNS TANK**

**PLUS**

**AVAILABLE WITH DIFFERENT  
CAPACITIES AND FIXINGS FOR  
VARIOUS MACHINE AND SYSTEM  
TYPES**

---

**IN ORDER TO GUARANTEE  
LONGEVITY AND RESISTANCE,  
OUR TANKS ARE PICKLED SO  
THE IMPURITIES RESULTING  
FROM OXIDATION AND THE  
MANUFACTURING PROCESSES ARE  
ELIMINATED**

---

**TESTED TO GUARANTEE MAXIMUM  
QUALITY AND SECURITY**





p. 454 / **SB304TR**

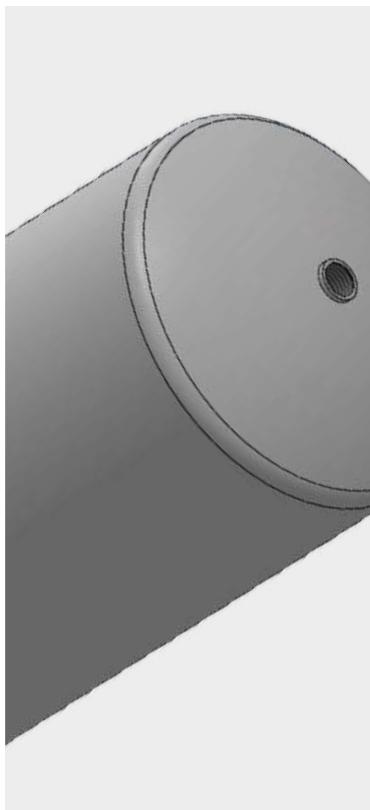



p. 454 / **SB304TR-STL**




p. 454 / **SB304TR-STC**







 -40°C ÷ 100°C

 Working pressure:  
Up to 10 Bar

 Compressed air

 Parallel gas BSPP ISO 228  
G1/2" and G1"

 Body: Stainless steel AISI 304 with pickling treatment

**AVAILABILITY**

Available on demand in stainless steel AISI 316 with electropolishing and pickling treatment

**PED** PED 2014/68/UE



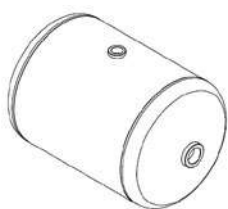
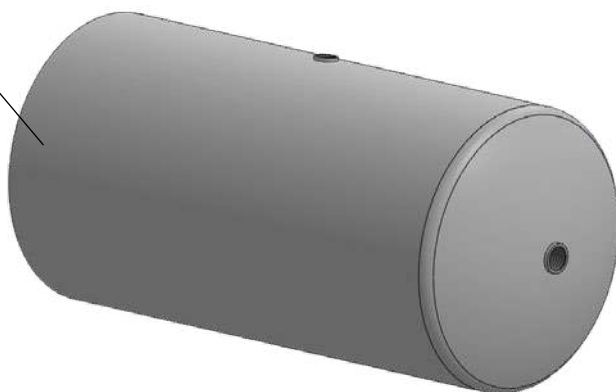
Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**

Body



**STANDARD TANK**  
without brackets



**STL TANK**  
aluminium brackets supplied separately with assembly fittings

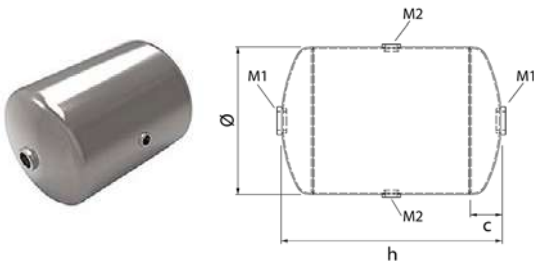


**STC TANK**  
brackets welded on the shell



**SB304TR**

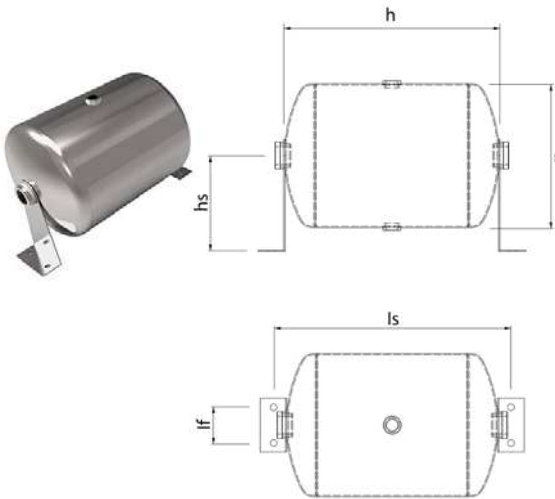
Stainless steel AISI 304 tank without brackets



CODE	Ø	H	VOLUME	C	M1	M2	Kg
SB304TR130175-DP	130	175	2	87,5	2x1/2"	2x1/4"	1,00
SB304TR150350-DP	150	350	5	45	2x1/2"	2x1/4"	2,20
SB304TR170560-DP	170	560	10	50	2x1/2"	2x1/4"	3,80
SB304TR220540-DP	220	540	19	60	2x1/2"	2x1/4"	4,85

**SB304TR-STL**

Stainless steel AISI 304 tank with L-brackets and assembly fittings

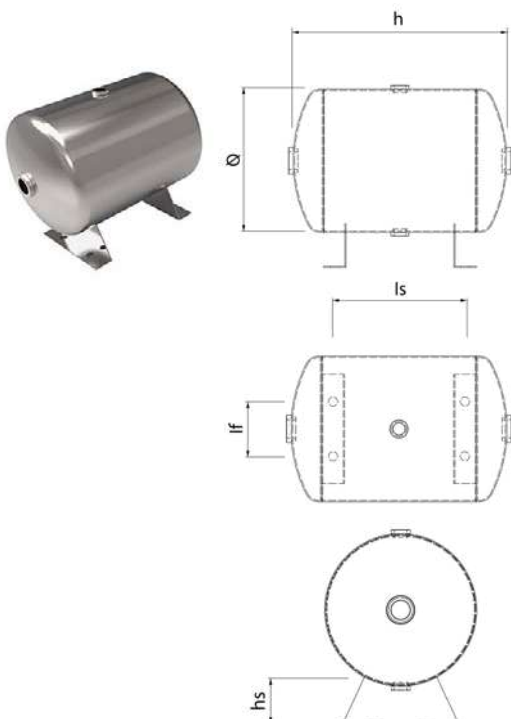


CODE	Ø	H	VOLUME	IF	IS	HS	IS
SB304TR130175-STL-DP	130	175	2	40	2x15MM	120	1,00
SB304TR150350-STL-DP	150	350	5	40	2x15MM	120	2,20
SB304TR170560-STL-DP	170	560	10	40	2x15MM	175	3,80
SB304TR220540-STL-DP	220	540	19	40	2x15MM	175	4,85

**IF (Bracket hole distance):**  
The brackets are supplied with two taper reductions for assembly: M 1/2" - F 1/2"

**SB304TR-STC**

Stainless steel AISI 304 tank with cradle brackets welded onto the shell



CODE	Ø	H	VOLUME	IF	IS	HS	Kg
SB304TR130175-STC-DP	130	175	2	60	60	35	1,00
SB304TR150350-STC-DP	150	350	5	60	80	35	2,20
SB304TR170560-STC-DP	170	560	10	60	220	40	3,80
SB304TR220540-STC-DP	220	540	19	80	225	45	4,85

**IF (Bracket hole distance)**



**ACCESSORIES &  
AIR GUNS**  
SEALING FOR  
THREADED  
ELEMENTS

**PLUS**

**DIFFERENT CATEGORIES AVAILABLE  
WHICH ALLOW A PERFECT SEAL ON  
MOST OF OUR FITTINGS**

---

**WASHERS OF DIFFERENT MATERIALS  
TO SATISFY COUNTLESS NEEDS IN  
THE INDUSTRIAL SECTOR**





p. 457 / **LOX1810**



p. 458 / **LOX5811**



p. 459 / **LOX5314**



p. 460 / **LOX5503**



p. 461 / **LOX5920**



p. 462 / **IS43S**



p. 463 / **LOX5331**



p. 464 / **R-PTFE**



p. 464 / **R-PTFE-PROF**



p. 465 / **2605**



p. 465 / **2610**



p. 465 / **2612**



p. 465 / **2615**



p. 466 / **2620**







-55°C ÷ 150°C  
 -20°C ÷ 150°C (Natural gas)  
 -10°C ÷ 150°C (LP gas)

**FEATURES**

Anaerobic adhesive for sealing of metal thread pipe joints. Suitable for gas, LP gas, compressed air, gasoline and oil, industrial fluids, CFC, water and several chemicals. Low friction coefficient will assure easy assembly. Thixotropic property prevents migration from thread of the sealant before or during curing. It replaces P.T.F.E. tape and yarn. Cured product provides elastic film. Shocks and vibrations resistant; unaffected sealing properties in the temperature range from -55 to +150°C. Easy dismantling is assured even after years.



Composition: anaerobic methacrylate

**PROPERTIES**

- Handling cure time: 20 - 40 minutes
- Functional cure time: 1 - 3 hours
- Full cure time: 5 - 10 hours
- Locking torque breakaway (ISO 10964): 6 - 11 Nm
- Locking torque prevailing (ISO 10964): 2 - 5 Nm
- Shear strength (ISO 10123): 4 - 6 Nm
- Tensile strength (ASTM D2095): 3 - 5 N/mm<sup>2</sup>
- Elongation at break: over 100%
- Viscosity (25°C-mPa s): 17.000 - 70.000 thixotropic
- Max Ø of thread/gap filling: 2"/0,30 mm

**CURING PERFORMANCE**

Curing rate depends on the assembly clearance, material surfaces and temperature. Functional strength is usually reached in 1 - 3 hours and full curing takes 24 - 36 hours.



Product approved by DIN-DVGW according to EN 751-1 (use with natural gas)



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**LOX1810**

PTFE anaerobic adhesive for fittings and tubes with low mechanical resistance



CODE	QUANTITY
LOX1810	75 ml





-55°C ÷ 150°C  
 -20°C ÷ 150°C (Natural gas)  
 -10°C ÷ 150°C (LP gas)

### FEATURES

Anaerobic curing adhesive for sealing of metal thread joints only.  
 It replaces PTFE tape and yarn and gives instant sealing against moderate pressure.  
 It seals against gas, water, LPG, hydrocarbons, oils and other chemicals.  
 Thixotropic property prevents migration of sealant from thread before or during curing.  
 Shock and vibrations resistant, sealing properties unaffected over the temperature range from -55°C to +150°C.



Composition: anaerobic methacrylate

### PROPERTIES

Handling cure time: 15 - 30 minutes

Functional cure time: 1 - 2 hours

Full cure time: 3 - 6 hours

Locking torque breakaway (ISO 10964): 18 - 24 Nm

Locking torque prevailing (ISO 10964): 7 - 14 Nm

Shear strength (ISO 10123): 6 - 13 Nm/mm<sup>2</sup>

Viscosity (25°C-mPa s): 20.000 - 80.000 thixotropic

Max Ø of thread/gap filling: M56/2"/0,30 mm



Product approved WRAS for contact with potable water



NSF registered in cat. S4 as acceptable for use as an adhesive in and around food processing area.  
 NSF certificate on behalf of Loxeal S.r.l.



Product approved by DIN-DVGW according to EN 751-1 (use with natural gas)



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

### CURING PERFORMANCE

The curing rate depends on the clearance between the parts, the type of material and the temperature. Functional strength is usually reached after 1 - 3 hours. Final strength takes 24 - 36 hours.

### USE WITH POTABLE WATER

WRAS approved for use with cold and hot water up to +85°C.

The following cure times are recommended for contact with potable water:

- For brass, copper and cast iron allow 24 hours at +21.1°C
- For stainless steel and aluminium allow 7 days at +21.1°C

## LOX5811

Medium strength anaerobic curing adhesive for sealing of metallic threaded joints up to 2"



CODE	QUANTITY
LOX5811	75 ml





-55°C ÷ 150°C  
-20°C ÷ 150°C (Natural gas)

**FEATURES**

Medium strength anaerobic adhesive for sealing hydraulic and pneumatic threads connectors up to 3/4" and small pipes. To replace P.T.F.E. tapes in the sealing of gases, water, LPG, hydrocarbons, oils and other chemicals. Highly resistant to heat, corrosion, shocks and vibrations.

**CURING PERFORMANCE**

Curing rate depends on the assembly clearance, material surfaces and temperature. Functional strength is usually reached in 1 - 3 hours and full curing takes 24 - 36 hours.



**Composition:** Anaerobic methacrylic resin

**PROPERTIES**

Handling cure time: 10 - 20 minutes  
Functional cure time: 1 - 3 hours  
Full cure time: 3 - 6 hours  
Locking torque - breakaway (ISO 10964): 12 - 18 Nm  
Locking torque - prevailing (ISO 10964): 10 - 20 Nm  
Shear strength (ISO 10123): 8 - 12 Nm  
Viscosity (25°C-mPa s): 430 - 630  
Max Ø of thread/gap filling: M20/3/4"/0,15mm



Product approved by DIN-DVGW according to EN 751-1 (use with natural gas)



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**LOX5314**

Medium strength anaerobic liquid adhesive sealant for pneumatic and hydraulic fittings up to 3/4"



CODE	QUANTITY
LOX5314	50 ml





-55°C ÷ 200°C  
-20°C ÷ 150°C (Natural gas)

**FEATURES**

Medium strength anaerobic adhesive for thread locking of nuts and bolts of all types that require to be dismantled.  
Suitable to be used on oily surfaces.  
Highly resistant to heat, corrosion, vibrations, water, gas, oils, hydrocarbons and many chemicals.  
Proven unscrewing resistance at +200°C.  
It keeps sealing properties unchanged between -55°C/+200°C and up to +250°C for short times.

**CURING PERFORMANCE**

Curing rate depends on the assembly gap, substrates and temperature.  
Functional strength is usually reached in 1 - 3 hours and full curing takes 24 - 36 hours.



Composition: Anaerobic methacrylic resin

**PROPERTIES**

Handling cure time: 10 - 20 minutes  
Functional cure time: 1 - 3 hours  
Full cure time: 3 - 6 hours  
Locking torque - breakaway (ISO 10964): 18 - 23 Nm  
Locking torque - prevailing (ISO 10964): 9 - 16 Nm  
Shear strength (ISO 10123): 9 - 13 N/mm<sup>2</sup>  
Viscosity (25°C-mPa s): 1.700 - 9.000 thixo  
Max Ø of thread/gap filling: M36/0,25 mm



Product approved WRAS for contact with potable water



Product approved by DIN-DVGW according to EN 751-1 (use with natural gas)



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**LOX5503**


Medium strength anaerobic adhesive for thread locking of nuts and bolts



CODE	QUANTITY
LOX5503	50 ml





 -50°C ÷ 180°C

**FEATURES**

One component moisture curing silicone based sealant and adhesive releasing non corrosive and low-odour by products. Provides an extremely flexible gasket between surfaces made of various materials (metal, plastics, glass, ceramics). Suitable for sealing gear boxes, pumps and motors flanges, oil and water containers, air forced pipes. Resistant to vibrations, thermal shocks, pressurized air, water, oils and several chemicals. Sealed parts can be disassembled using normal tools.

**CURING PROPERTIES**

Tack free time (+20°C): 15 - 30 minutes  
 Functional curing time: 3 - 6 hours  
 Final curing time: 24 - 36 hours

 **Composition:** Silicon neutral curing

**PROPERTIES (AFTER 7 DAYS - 23°C)**

Hardness Shore A (ASTM D-2240):  
 25 ± 5  
 Tensile strength (ASTM D-412):  
 0,5 - 1,0 MPa  
 Elongation at break (ASTM D-412):  
 400% - 600%  
 Joint movement capability (ASTM C-290):  
 ± 25%



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**LOX5920**

Highly oil resistant transparent sealant silicone



CODE	QUANTITY
LOX5920	310 ml





-55°C ÷ 120°C

### FEATURES

General purpose, surface insensitive medium viscosity instant adhesive based on ethyl cyanoacrylate.

Insensitive to acidic surfaces, it is recommended for bonding of leather, wood and metals.

Proven temperature strength up to +120°C with peaks for short times up to +150°C.

### CURING PROPERTIES

Curing rate depends on the substrate used, on the gap, on the temperature and on the environmental humidity.

#### MATERIAL FIXING TIMES:

- Plastics: 2 - 10 seconds
- Steel: 5 - 20 seconds
- Aluminum: 2 - 10 seconds
- Zinc: 10 - 20 seconds



Composition: Modified ethyl cyanoacrylate

### PROPERTIES

Tensile strength ISO 6922:

15 - 25 N/mm<sup>2</sup>

Shear strength ISO 4587:

15 - 20 N/mm<sup>2</sup>

Softening range:

+160°C - +170°C



NSF registered as acceptable for use as an instant adhesive (cat. S4) in and around food processing area. NSF certificate on behalf of Loxeal S.r.l.



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

## IS43S


Universal fast setting cyanoacrylate adhesive



CODE	QUANTITY
IS43S	20 g





 -50°C ÷ 150°C

**FEATURES**

Recommended for use on plastic pipe threaded fittings carrying hot or cold water. This product cures at ambient temperatures under the influence of atmospheric moisture to form a low strength flexible seal against hot and cold water. This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

**ENVIRONMENTAL RESISTANCE**

The low strength of this sealant is maintained at temperatures up to 150 °C. Sealing capability is maintained up to 0.3 MPa in water at 90 °C. Tests on steel fittings using water/glycol maintained seals cycling 20 to 90 °C for 12 months without leaking.

**CURING PERFORMANCE**

The cure speed of this product is independent of substrates but requires atmospheric humidity 40% minimum to develop full sealing capability (0.3 MPa) within 12 hours. Instant seal capability is 0.05 MPa water pressure as measured on 25.4 mm fittings. Low temperatures do not reduce the effectiveness of this sealant unless the atmospheric moisture is also low.



Composition: Anaerobic silicone

**PROPERTIES (AFTER 72 HOURS - 22°C)**

- Breakaway Torque (ISO 10964): 1,5 Nm
- Prevail Torque (ISO 10964): 0,5 Nm
- Breakloose Torque (ISO 10964): 4,5 Nm
- Max. Prevail Torque (ISO 10964): 1,0 Nm
- Viscosity (25 °C-mPa s): 50.000
- Max Ø of thread/gap filling: M80/3"



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**LOC5331**

Anaerobic adhesive for fittings



CODE	QUANTITY
LOC5331	100 ml





-200°C ÷ 260°C

**FEATURES**

The PTFE thread sealing tape of unsintered PTFE is mainly used as a thread sealing element. It resists all known chemical compound and solvents, with the exception of gaseous Flourine at high temperature, Trifluoro Chlorine, alkali metals either molten or in solution. It can be used in a temperature range: -200°C to +260°C; has a low coefficient of friction, is tasteless, insolubile, and doesn't smell.

The tapes are normally available on plastic reels. Is compounded from virgin material and is produced through a process called "Paste Extrusion".

**RESISTANCE**

- Pressure resistance: 210 Bar
- Chemical resistance: pH 0 - 14



Composition: PTFE resin (teflon)

**R-PTFE**

- Width: 1/2"
- Length: 12 m
- Thickness: 0,1 mm

**R-PTFE-PROF**

- Width: 3/4"
- Length: 15 m
- Thickness: 0,2 mm



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**R-PTFE**

Teflon tape



CODE	QUANTITY
R-PTFE12012	12 m

**R-PTFE-PROF**

Teflon tape for professional use



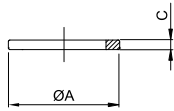
CODE	QUANTITY
R-PTFE190215-PROF	15 m





## 2605

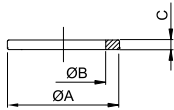
## Metal-nitrile composite gasket



CODE	T	ØA	C	g
2605TR18	1/8"	14,0	1,0	-
2605TR14	1/4"	17,0	1,0	-
2605TR38	3/8"	22,0	1,3	-
2605TR12	1/2"	26,0	1,6	-
2605TR34	3/4"	32,0	1,6	-
2605TR1	1"	39,0	3,5	-

## 2610

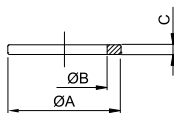
## Notched nylon washer



CODE	T	ØA	ØB	C	g
2610TRM5	M5	8,0	5,2	1,0	2,0
2610TR18	G 1/8"	14,0	10,0	1,5	26,0
2610TR14	G 1/4"	18,0	13,5	1,5	42,0
2610TR38	G 3/8"	21,0	16,8	2,0	28,0
2610TR12	G 1/2"	26,0	21,1	2,0	38,0

## 2612

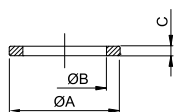
## PVC washer



CODE	T	ØA	ØB	C	g
2612TR18	G 1/8"	14,0	10,0	1,5	18,0
2612TR14	G 1/4"	17,5	13,5	1,5	18,0
2612TR38	G 3/8"	21,0	16,7	1,5	18,0
2612TR12	G 1/2"	26,0	21,3	1,5	18,0

## 2615

## Nylon washer

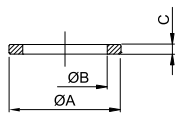


CODE	T	ØA	ØB	C	g
2615TRM5	M5	8,5	5,0	1,5	4,0
2615TR18	G 1/8"	14,0	9,8	1,5	24,0
2615TR14	G 1/4"	18,0	13,2	1,5	40,0
2615TR38	G 3/8"	21,0	16,7	1,5	20,0
2615TR12	G 1/2"	26,0	21,1	2,0	38,0
2615TR34	G 3/4"	32,0	26,7	2,5	62,0



**2620**

Aluminium washer



CODE	T	ØA	ØB	C	g
2620TR18	G 1/8"	14,0	10,0	1,5	58,0
2620TR14	G 1/4"	17,3	13,3	1,5	76,0
2620TR38	G 3/8"	21,0	16,9	1,5	46,0
2620TR12	G 1/2"	26,0	21,1	1,5	70,0



**ACCESSORIES &  
AIR GUNS**  
CAF

**PLUS**

**VARIABLE FLOW THROUGH  
PROGRESSIVE CONTROL TO REDUCE  
AIR CONSUMPTION**

---

**DESIGN STUDIED FOR A  
COMFORTABLE HANDLING THAT  
FACILITATES PROLONGED USE**

---

**DESIGNED WITH MATERIALS THAT  
MAKE THEM LIGHTWEIGHT AND  
IMPACT RESISTANT**

---

**THANKS TO FOUR NOZZLE TYPES  
IT CAN BE USED IN DIFFERENT  
APPLICATIONS**





p. 470 / **CAF**

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0°C ÷ 60°C



Working pressure:

from 0 to 10 Bar

Negative pressure:

- 0,95 Bar ( - 95 Kpa)



Compressed air & Vacuum  
(do not use with water)



Parallel gas BSPP ISO 228  
G1/4"



Body: POM (black)

Nozzle: Stainless steel AISI 304

### SUPPLY

Progressive



Products in compliance with  
EC Regulation 1907/2006

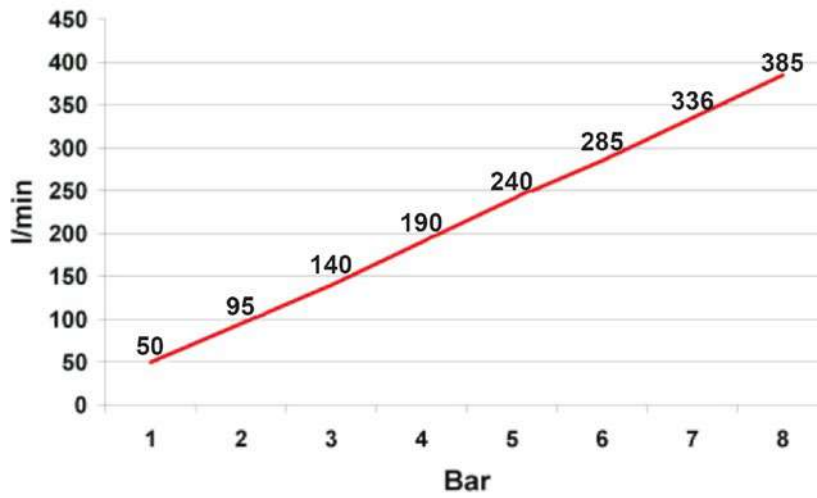


Products in compliance with  
the directive EU 2015/863





### CONSTRUCTION DETAILS



**FLOWRATE**  
CAF AIR GUNS

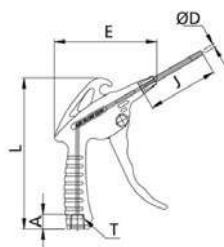


**NOZZLE LENGTH**  
CAF AIR GUNS

CODE	CAF0055FG	CAF010FG	CAF020FG	CAF030FG
LENGTH (mm)	50	100	200	300
CAF				

**CAF**

Air gun with female BSPP thread



CODE	ØD	T	L	E	A	J	g
CAF005FG	3,0	G 1/4"	142,1	96,8	13,5	50,0	93,0
CAF010FG	3,0	G 1/4"	142,1	96,8	13,5	100,0	106,0
CAF020FG	3,0	G 1/4"	142,1	96,8	13,5	200,0	113,0
CAF030FG	3,0	G 1/4"	142,1	96,8	13,5	300,0	128,0



# **ACCESSORIES & AIR GUNS CB WITH HIGH FLOWRATE**

**PLUS**

**VARIABLE FLOW THROUGH  
PROGRESSIVE CONTROL TO REDUCE  
AIR CONSUMPTION**

---

**DESIGNED TO GUARANTEE A HIGH  
AIR FLOW**

---

**DESIGN STUDIED FOR A  
COMFORTABLE HANDLING THAT  
FACILITATES PROLONGED USE**

---

**DESIGNED WITH MATERIALS THAT  
MAKE THEM LIGHTWEIGHT AND  
IMPACT RESISTANT**

---

**THREE NOZZLE TYPOLOGIES  
AVAILABLE TO MEET MULTIPLE  
NEEDS**





p. 474 / **CB01**

---







0°C ÷ 60°C



Working pressure:  
from 0 to 10 Bar  
Negative pressure:  
- 0,95 Bar ( - 95 Kpa)



Compressed air & Vacuum  
(do not use with water)



Parallel gas BSPP ISO 228  
G1/4"



Body: POM blu  
Nozzle: Stainless steel AISI 304

**SUPPLY**

Progressive



Products in compliance with  
EC Regulation 1907/2006

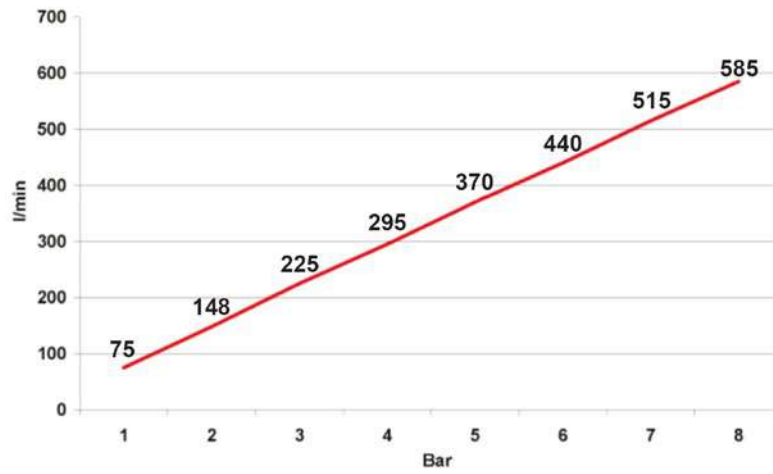


Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**FLOWRATE**  
CB01 AIR GUNS

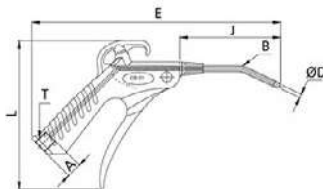


**NOZZLE LENGTH**  
CB01 AIR GUNS

CODE	CB01F010FG	CB01F020FG	CB01F030FG
LENGTH (mm)	100	200	300
CB01			

**CB01**

Air gun with high flowrate, female BSPP thread



CODE	ØD	T	L	E	A	J	B	g
CB01F010FG	3,5	G 1/4"	143,6	242,7	13,5	100,0	BENT	118,0
CB01F020FG	3,5	G 1/4"	143,6	342,7	13,5	200,0	STRAIGHT	132,0
CB01F030FG	3,5	G 1/4"	143,6	442,7	13,5	300,0	STRAIGHT	147,0



**ACCESSORIES &  
AIR GUNS**  
PSF  
ALUMINIUM

**PLUS**

**EASY TO USE THANKS TO PUSH-  
BUTTON OPERATION REDUCING  
FATIGUE**

---

**BODY MADE ENTIRELY FROM  
PAINTED ALUMINIUM WHICH  
MAKES IT PARTICULARLY STRONG**

---

**POSSIBILITY TO ASSEMBLY  
EXTENDED BRASS NOZZLES FOR  
MULTIPLE USES**





p. 478 / **PSF**



p. 478 / **L150&L225**



p. 478 / **PSF1010-4**





0°C ÷ 60°C



Working pressure:  
12 Bar



Compressed air, water, grease,  
oil and fluids compatible with  
construction materials



Parallel gas BSPP ISO 228  
G1/4"

Body: Painted aluminium

Standard nozzle: NBR

Button: PA-11

Seals: NBR

Spring: Stainless steel AISI 302

L150&L225: Brass

PSF1010-4: NBR



#### FLOWRATE

210 l/min at 6 Bar

#### FEATURES

It is suitable for any type of use in industry, as its main function is the cleaning of elements containing dust, bacterial and oil.



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

#### CONSTRUCTION DETAILS



**PSF**

## Aluminium air gun with female BSPP thread



CODE	THREAD	SIZES	g
PSF1010	G 1/4"	120 x 62 x 25	110,0

**L150&L225**

## Brass nozzles for PSF1010



CODE	THREAD	LENGTH	g
L-150	G 1/8"	158,0	35,0
L-225	G 1/8"	233,0	45,0

**PSF1010-4**

## NBR nozzle for PSF1010



CODE	THREAD	LENGTH	g
PSF1010-4	G 1/8"	20,0	2,0



**ACCESSORIES &  
AIR GUNS**  
UGPT-7  
BLOW COMB  
COMPRESSED AIR

**PLUS**

**SUITABLE FOR COOLING SYSTEM  
WITH AIR, FOR MATERIAL  
HANDLING AND CLEANING  
OPERATIONS**

---

**UNIFORM JET WITH EXCELLENT AIR  
FLOW**

---

**INTERNAL HOLES IN THE COMB TO  
PREVENT CLOGGING**

---

**THESE NOZZLES ENSURE AN  
UNIFORM DISTRIBUTION AT LOW  
PRESSURE (7 BAR)**





p. 482 / **UGPT7**

---









 0°C ÷ 77°C

 Working pressure:  
7 Bar

 Compressed air

 Taper gas BSPT ISO 7  
R1/4"

 Body: ABS plastic

#### FLOWRATE - CAPACITY

0,7 Bar: 193 Nlpm

2 Bar: 357 Nlpm

4 Bar: 586 Nlpm

6 Bar: 816 Nlpm

#### FEATURES

Generate efficient, controlled flat fan air pattern for a uniform spray distribution. Recessed orifices protect against external damage and offer air escape should the nozzles accidentally be placed against a flat surface. Low noise levels.

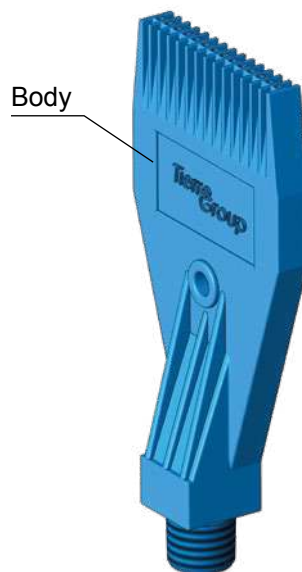


Products in compliance with EC Regulation 1907/2006



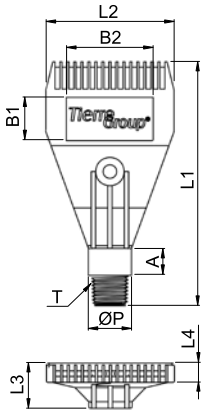
Products in compliance with the directive EU 2015/863

#### CONSTRUCTION DETAILS



**UGPT7**

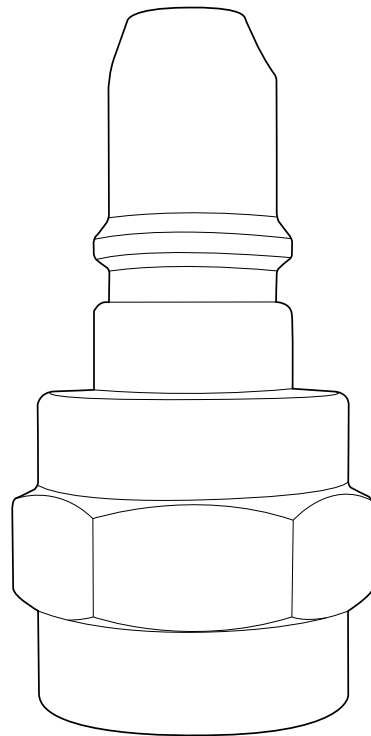
Blow comb compressed air with male BSPT thread



CODE	T	ØP	A	B1	B2	L1	L2	L3	L4
UGPT-7	G 1/4"	15,8	10	16	32	90,5	47,4	16,5	7,0



# QUICK COUPLINGS





p. 485  
**NYLON**

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p. 489  
**ACETAL RESIN**

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# TECHNICAL INDEX



p. 497  
**COMPRESSED AIR**

---



p. 533  
**AIR&FLUIDS HIGH PERFORMANCE  
SERIE CD**

---



p. 563  
**AIR&FLUIDS HIGH PERFORMANCE**

---



**QUICK  
COUPLINGS  
NYLON**

**PLUS**

**AUTOMATIC AND FAST  
CONNECTION SYSTEM**

---

**A VARIETY OF PLUGS IS AVAILABLE  
TO OPTIMISE CONNECTIONS WITH  
THE TUBES**

---

**LIGHTWEIGHT AND STRONG  
MATERIALS**

---

**CAN BE USE FOR HYDRAULIC AND  
PNEUMATIC APPLICATIONS**





p. 488 / **8001**



p. 488 / **8006**



p. 488 / **8007**



p. 488 / **8008**





+4°C ÷ +90°C  
subject to application



**Working pressure:**  
14 Bar (at 20°C)  
depending on the tube used



Compressed air, water and  
fluids suitable with construction  
materials



Taper gas BSPT ISO 7  
R1/4"



**Body:** Nylon 66  
**Seal:** NBR  
**Internal parts:** Acetal resin  
**Spring:** Stainless steel AISI 316  
**Connection:** Acetal resin

**FEATURES**

The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before to use it in order to prevent any type of loss.

**AVAILABILITY**

EPDM seals available on request

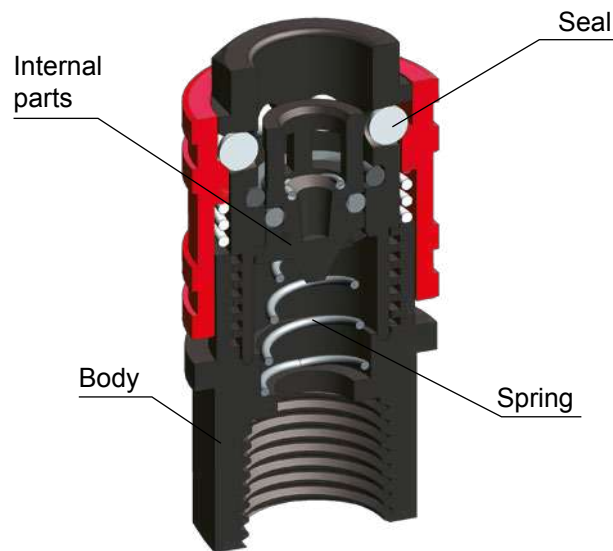


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



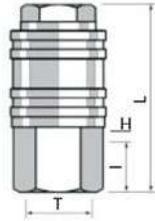
**TIGHTENING TORQUE**  
TAPER GAS BSPT ISO 7

THREAD	1/4"
Nm	0,8



**8001**

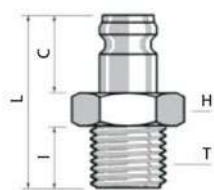
Female nylon quick coupling BSPT thread



CODE	T	I	L	H	g
8001TR14	R 1/4"	10,0	44,0	19	14,2

**8006**

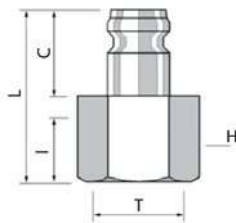
Male acetal resin connection BSPT thread



CODE	T	I	L	C	H	g
8006TR14	R 1/4"	10,0	31,2	14,0	17	3,9

**8007**

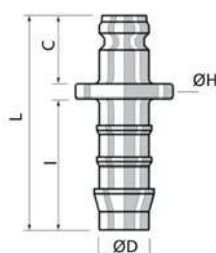
Female acetal resin connection BSPT thread



CODE	T	I	L	C	H	g
8007TR14	R 1/4"	10,0	28,6	14,0	17	3,6

**8008**

Acetal resin connection with barb connector



CODE	ØD	BARB	I	L	C	ØH	g
8008TR5	5	6,0	22,0	37,8	14,0	16,7	2,1
8008TR6	6	8,0	24,0	39,8	14,0	16,7	2,35
8008TR8	8	10,0	26,0	43,2	14,0	16,8	3,25
8008TR10	10	12,0	26,0	43,2	14,0	16,8	3,85
8008TR12	12	14,0	28,0	43,2	14,0	16,8	4,15





**QUICK  
COUPLINGS**  
ACETAL  
RESIN

**PLUS**

**DESIGNED TO LAST IN TIME AND TO  
RESIST TO MOST CHEMICALS**

---

**AVAILABLE IN BOTH VALVED AND  
NON-VALVED CONFIGURATIONS**

---

**EASY CONNECTION AND  
DISCONNECTION**

---

**A CLICK WARNS OF THE PERFECT  
CONNECTION BETWEEN COUPLING  
AND PLUG**





p. 492 / **20AC100**



p. 492 / **40AC100**



p. 492 / **20AC110**



p. 492 / **40AC110**



p. 493 / **20AC120**



p. 493 / **40AC120**



p. 493 / **20AC101**



p. 493 / **40AC101**



p. 494 / **20AC111**



p. 494 / **40AC111**



p. 494 / **20AC121**



p. 494 / **40AC121**

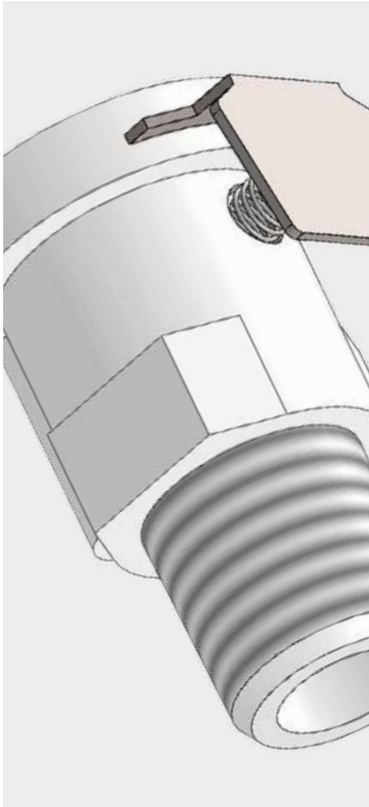


p. 495 / **20AC131**



p. 495 / **40AC131**





-40°C ÷ +82°C



Working pressure:  
8 Bar  
Negative pressure:  
- 0,95 Bar ( - 95 Kpa)



20AC series:  
3,0 mm  
40AC series:  
6,2 mm



Compressed air, vacuum,  
water and fluids suitable with  
construction materials



Taper gas BSPT ISO 7  
from R1/8" to R3/8"

Body: POM  
Internal valve: POM  
Internal valve spring: Stainless steel  
AISI 316  
Seals: BUNA-N FDA & NSF compliant  
Thumb-latch: Stainless steel  
External spring & PIN: Stainless steel



**FEATURES**

The fittings of this series have plastic thread and consequently we recommend to avoid excessive force during screwing and to teflon the thread before use in order to prevent any type of loss.



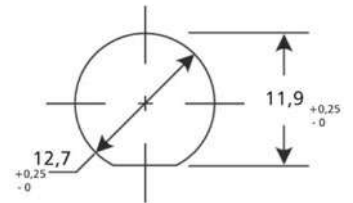
Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

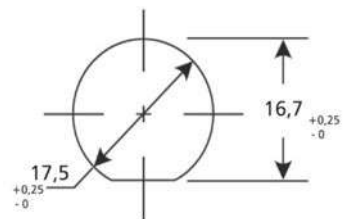
**DIMENSIONS FOR PANEL MOUNTING**  
QUICK COUPLINGS ACETAL RESIN - 20AC

	MIN. WALL THICKNESS (mm)	MAX. WALL THICKNESS (mm)	PANEL NUT HEX SIZE (mm)	PANEL NUT THREAD
COUPLING	1,3	12,7	16	Ø12,7mm (1/2" - 24 UNS)
CONNECTOR	1,3	7,6	16	Ø12,7mm (1/2" - 24 UNS)



**DIMENSIONS FOR PANEL MOUNTING**  
QUICK COUPLINGS ACETAL RESIN - 40AC

	MIN. WALL THICKNESS (mm)	MAX. WALL THICKNESS (mm)	PANEL NUT HEX SIZE (mm)	PANEL NUT THREAD
COUPLING	1,3	12,7	21	Ø17,5mm (11/16" - 24 UNS)
CONNECTOR	1,3	7,6	21	Ø17,5mm (11/16" - 24 UNS)

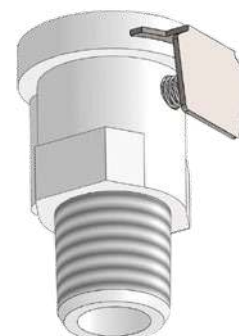


**BARB Ø**  
ACETAL RESIN BARB CONNECTOR

ØD (mm)	3,2	4,8	6,4	8,0	9,5
ØB (mm)	4,8	6,3	7,6	9,1	10,7

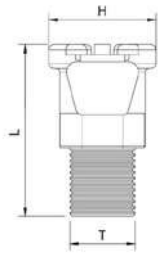


**VIEW - QUICK COUPLING 20AC100**



**20AC100**

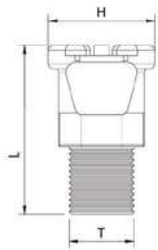
Male quick coupling BSPT thread, DN 3,0mm



CODE	INTERCEPTED	T	L	H
20AC100L-R01	NO	R 1/8"	25,4	15,8
20AC100V-R01	YES	R 1/8"	25,4	15,8
20AC100L-R02	NO	R 1/4"	27,9	15,8
20AC100V-R02	YES	R 1/4"	27,9	15,7

**40AC100**

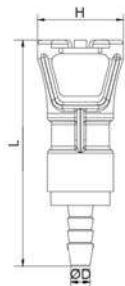
Male quick coupling BSPT thread, DN 6,2mm



CODE	INTERCEPTED	T	L	H
40AC100L-R02	NO	R 1/4"	29,2	19,1
40AC100V-R02	YES	R 1/4"	29,2	19,1
40AC100L-R03	NO	R 3/8"	29,2	19,1
40AC100V-R03	YES	R 3/8"	29,2	19,1

**20AC110**

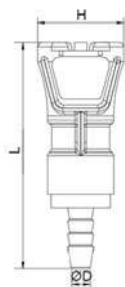
Quick coupling with barb connector, DN 3,0mm



CODE	INTERCEPTED	ØD	BARB	L	H
20AC110L-48	NO	3,2	4,8	41,7	15,8
20AC110V-48	YES	3,2	4,8	41,7	15,8
20AC110L-63	NO	4,8	6,4	45,7	15,8
20AC110V-63	YES	4,8	6,4	45,7	15,8
20AC110L-76	NO	6,4	7,6	45,7	15,8
20AC110V-76	YES	6,4	7,6	45,7	15,8

**40AC110**

Quick coupling with barb connector, DN 6,2mm

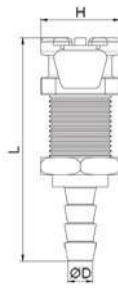


CODE	INTERCEPTED	ØD	BARB	L	H
40AC110L-76	NO	6,4	7,6	48,3	19,1
40AC110V-76	YES	6,4	7,6	48,3	19,1
40AC110L-91	NO	8,0	9,1	49,3	19,1
40AC110V-91	YES	8,0	9,1	49,3	19,1
40AC110L-107	NO	9,5	10,7	48,3	19,1
40AC110V-107	YES	9,5	10,7	48,3	19,1



**20AC120**

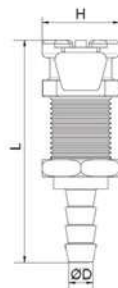
Bulkhead quick coupling with barb connector, DN 3,0mm



CODE	INTERCEPTED	ØD	BARB	L	H
20AC120L-48	NO	3,2	4,8	41,9	15,8
20AC120V-48	YES	3,2	4,8	41,9	15,8
20AC120L-63	NO	4,8	6,4	46,0	15,8
20AC120V-63	YES	4,8	6,4	46,0	15,8
20AC120L-76	NO	6,4	7,6	45,7	15,8
20AC120V-76	YES	6,4	7,6	45,7	15,8

**40AC120**

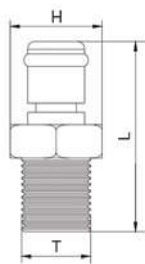
Bulkhead quick coupling with barb connector, DN 6,2mm



CODE	INTERCEPTED	ØD	BARB	L	H
40AC120L-76	NO	6,4	7,6	48,3	19,1
40AC120V-76	YES	6,4	7,6	48,3	19,1
40AC120V-91	YES	8,0	9,1	49,0	20,4
40AC120L-107	NO	9,5	10,6	48,3	20,4
40AC120V-107	YES	9,5	10,6	48,3	20,4

**20AC101**

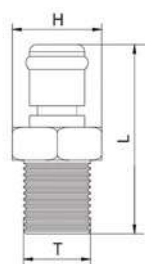
Male connection BSPT thread, DN 3,0mm



CODE	INTERCEPTED	T	L	H
20AC101L-R01	NO	R 1/8"	26,2	12,7
20AC101V-R01	YES	R 1/8"	34,8	12,7

**40AC101**

Male connection BSPT thread, DN 6,2mm

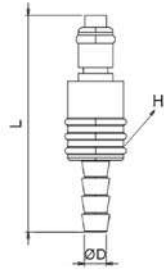


CODE	INTERCEPTED	T	L	H
40AC101L-R02	NO	R 1/4"	31,8	16,0
40AC101L-R03	NO	R 3/8"	32,0	19,1



**20AC111**

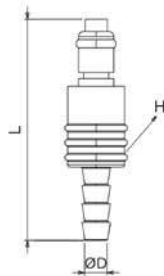
Connection with barb connector, DN 3,0mm



CODE	INTERCEPTED	ØD	BARB	L	H
20AC111L-48	NO	3,2	4,8	24,7	12,7
20AC111V-48	YES	3,2	4,8	41,9	14,0
20AC111L-63	NO	4,8	6,4	28,8	12,7
20AC111V-63	YES	4,8	6,4	46,0	14,0
20AC111L-76	NO	6,4	7,6	28,8	12,7
20AC111V-76	YES	6,4	7,6	46,0	14,0

**40AC111**

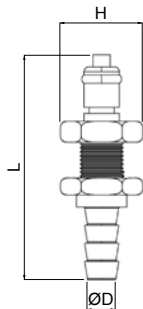
Connection with barb connector, DN 6,2mm



CODE	INTERCEPTED	ØD	BARB	L	H
40AC111L-76	NO	6,4	7,6	31,8	15,6
40AC111V-76	YES	6,4	7,6	49,3	17,8
40AC111L-91	NO	8,0	9,1	32,8	15,6
40AC111V-91	YES	8,0	9,1	50,5	17,9
40AC111L-107	NO	9,5	10,6	32,2	16,6
40AC111V-107	YES	9,5	10,6	46,2	17,9

**20AC121**

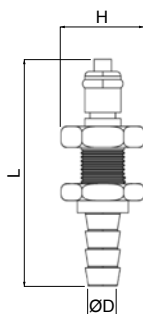
Bulkhead connection with barb connector, DN 3,0mm



CODE	INTERCEPTED	ØD	BARB	L	H
20AC121L-48	NO	3,2	4,8	40,4	15,8
20AC121V-48	YES	3,2	4,8	43,2	15,8
20AC121L-63	NO	4,8	6,4	45,0	15,8
20AC121V-63	YES	4,8	6,4	47,4	15,8
20AC121V-76	YES	6,4	7,6	47,2	15,8

**40AC121**

Bulkhead connection with barb connector, DN 6,2mm

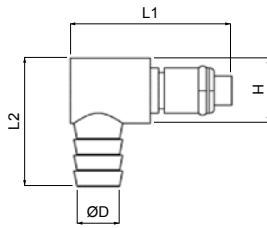


CODE	INTERCEPTED	ØD	BARB	L	H
40AC121L-76	NO	6,4	7,6	47,2	20,4
40AC121V-76	YES	6,4	7,6	50,8	20,4
40AC121V-91	YES	8,0	9,1	52,1	19,0



**20AC131**

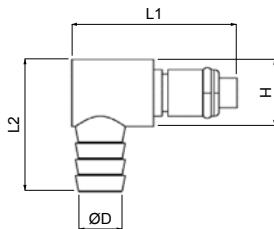
Elbow connection with barb connector, DN 3,0mm



CODE	INTERCEPTED	ØD	BARB	L1	L2	H
20AC131L-48	NO	3,2	4,8	21,7	25,4	12,7
20AC131V-48	YES	3,2	4,8	30,3	24,2	12,7
20AC131L-76	NO	6,4	7,6	25,4	29,2	12,7
20AC131V-76	YES	6,4	7,6	30,3	28,0	12,7

**40AC131**

Elbow connection with barb connector, DN 6,2mm



CODE	INTERCEPTED	ØD	BARB	L1	L2	H
40AC131L-76	NO	6,4	7,6	27,9	32,3	16,0
40AC131V-76	YES	6,4	7,6	34,1	31,1	16,0
40AC131L-107	NO	9,5	10,6	27,9	32,3	16,0
40AC131V-107	YES	9,5	10,6	35,2	31,3	16,0



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FITTINGS FOR

 **TierreGroup**<sup>®</sup>

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**QUICK  
COUPLINGS**  
COMPRESSED  
AIR

**PLUS**

**SIMPLE CONNECTION AND  
DISCONNECTION WHICH CAN BE  
DONE ONE HANDED**

---

**COMPACT AND LIGHTWEIGHT**

---

**MANY THREADED CONNECTIONS  
TO CONNECT DIFFERENT TYPES OF  
TUBES**

---

**MULTISOCKET VERSION  
COMPATIBLE WITH FOUR DIFFERENT  
NORMALIZED PROFILES**



**QUICK COUPLINGS FOR COMPRESSED AIR / MINI SERIES**

 p. 502 / <b>8110FM</b>	 p. 502 / <b>8120FF</b>	 p. 502 / <b>8130RE</b>	 p. 502 / <b>8140CA</b>	 p. 503 / <b>8150MO</b>	 p. 503 / <b>8155BU</b>
 p. 503 / <b>8160MM</b>	 p. 503 / <b>8170FM</b>	 p. 504 / <b>8180RE</b>	 p. 504 / <b>8190CA</b>	 p. 504 / <b>8195MO</b>	

**QUICK COUPLINGS FOR COMPRESSED AIR / TIERRE UNIVERSAL SERIES**

 p. 506 / <b>8410FM</b>	 p. 506 / <b>8420FF</b>	 p. 506 / <b>8430RE</b>	 p. 506 / <b>8440PO</b>	 p. 507 / <b>8450MO</b>	 p. 507 / <b>8410FM-LU</b>
 p. 507 / <b>8420FF-LU</b>					

**QUICK COUPLINGS FOR COMPRESSED AIR / ITALY SERIES**

 p. 510 / <b>8210FM</b>	 p. 510 / <b>8220FF</b>	 p. 510 / <b>8240PO</b>	 p. 511 / <b>8250MO</b>	 p. 511 / <b>8260MM</b>	 p. 511 / <b>8270FM</b>
 p. 512 / <b>8230PO</b>	 p. 512 / <b>8285BM</b>	 p. 512 / <b>8295MO</b>			



## QUICK COUPLINGS FOR COMPRESSED AIR / GERMANY SERIES

p. 514 / **8310FM**p. 514 / **8320FF**p. 514 / **8330RE**p. 515 / **8390PO**p. 515 / **8350MO**p. 515 / **8360MM**p. 515 / **8370FM**p. 516 / **8340PO**p. 516 / **8380RE**p. 516 / **8395MO**

## QUICK COUPLINGS FOR COMPRESSED AIR / USA SERIES - ISO 6150-B12

p. 518 / **8060MM**p. 518 / **8070FM**p. 518 / **8080RE**p. 519 / **8085PO**p. 519 / **8090MO**

## QUICK COUPLINGS FOR COMPRESSED AIR / SWISS SERIES

p. 522 / **8460MM**p. 522 / **8470FM**p. 522 / **8480RE**p. 523 / **8485PO**p. 523 / **8490MO**

## QUICK COUPLINGS FOR COMPRESSED AIR / LARGE SERIES

p. 526 / **8215FM**p. 526 / **8225FF**p. 526 / **8235PO**p. 527 / **8245PO**p. 527 / **8255MM**

QUICK COUPLINGS FOR COMPRESSED AIR / JAPAN SERIES



p. 530 / **8910FM**



p. 530 / **8920FF**



p. 530 / **8930RE**



p. 531 / **8960MM**



p. 531 / **8970FM**



p. 531 / **8980RE**



p. 531 / **PCP**





-18°C ÷ +80°C



Working pressure:  
12 Bar



Compressed air



Parallel gas BSPP ISO 228  
G1/8" and G1/4"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

**PROFILE - MINI SERIES**



**NOMINAL DIAMETER**

4,8 mm

**AIR FLOWRATE**

1100 l/min



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**VIEW - QUICK COUPLING 8110FM**



**8110FM**

Male quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8110FM01	G 1/8"	38,9	14
8110FM02	G 1/4"	37,7	14

**8120FF**

Female quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8120FF01	G 1/8"	38,9	14
8120FF02	G 1/4"	40,7	15

**8130RE**

Quick coupling with barb connector



CODE	INTERNAL TUBE Ø	BARB	LENGTH	WRENCH
8130RE06	6	6,3	49,0	14
8130RE08	8	8,3	49,0	14

**8140CA**

Quick coupling with push-on connector



CODE	Ø	LENGTH	WRENCH
8140CA46	4x6	42,9	14
8140CA68	6x8	43,6	14
8140CA810	8x10	45,0	14



**8150MO**

Quick coupling with push-on connector and spring



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8150MO46	4x6	115,6	14	12
8150MO68	6x8	128,3	14	13
8150MO810	8x10	129,2	14	15

**8155BU**

Bulkhead quick coupling with push-on connector



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8155BU46	4x6	57,7	14	12
8155BU68	6x8	58,0	17	14

**8160MM**

Male connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8160MM01	G 1/8"	26,0	12
8160MM02	G 1/4"	28,4	14

**8170FM**

Female connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8170FM01	G 1/8"	26,0	12
8170FM02	G 1/4"	28,4	14



**8180RE**

Connection with barb connector



CODE	INTERNAL TUBE Ø	BARB	LENGTH
8180RE06	6	6,4	33,0
8180RE08	8	8,5	34,5

**8190CA**

Connection with push-on connector



CODE	Ø	LENGTH	WRENCH
8190CA46	4x6	32,5	12
8190CA68	6x8	33,1	12
8190CA810	8x10	34,7	14

**8195MO**

Connection with push-on connector and spring



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8195MO46	4x6	104,3	12	12
8195MO68	6x8	117,0	12	12
8195MO810	8x10	120,4	14	15







-15°C ÷ +80°C



Working pressure:  
16 Bar (High Flow)  
12 Bar (Light Flow)



- Taper gas BSPT ISO 7  
from R1/4" to R1/2"  
- Parallel gas BSPP ISO 228  
from G1/4" to G1/2"



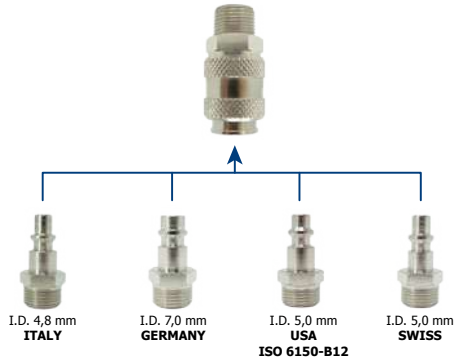
Compressed air



High Flow: Nickel-plated brass  
with 6 stainless steel spheres  
Light Flow: Nickel-plated brass

**PROFILE - TIERRE UNIVERSAL SERIES**

The 8400 Series multi-socket allows 4 different profiles to be used while managing a single quick coupling. A simple solution for handling profiles that are not compatible with each other.

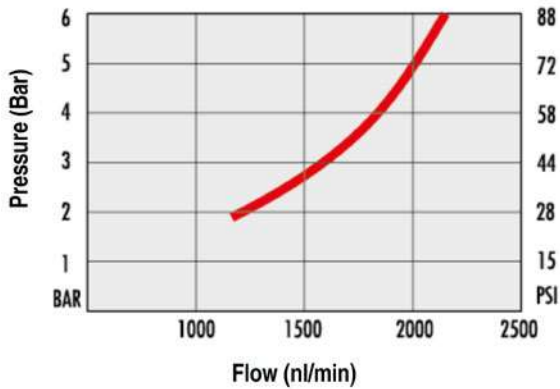


Products in compliance with EC Regulation 1907/2006

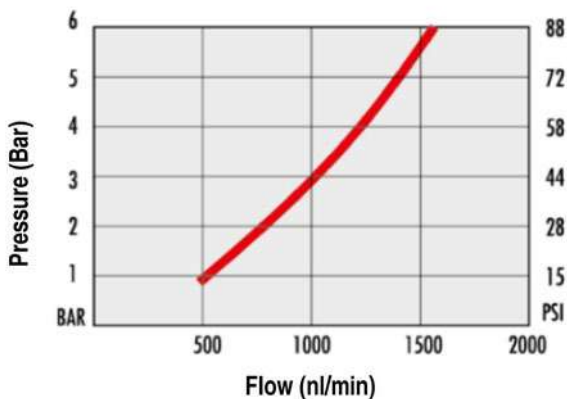


Products in compliance with the directive EU 2015/863

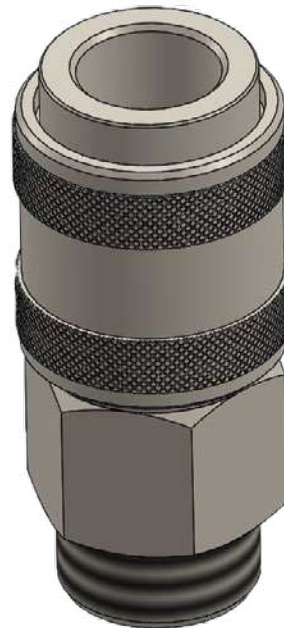
**AIR FLOWRATE - HIGH FLOW**  
TIERRE UNIVERSAL SERIES



**AIR FLOWRATE - LIGHT FLOW**  
TIERRE UNIVERSAL SERIES - 8410FM-LU & 8420FF-LU

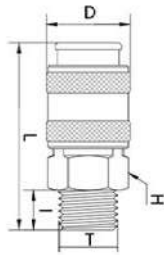


**VIEW - QUICK COUPLING 8410FM**



**8410FM**

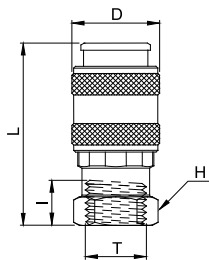
Male quick coupling BSPT thread



CODE	T	I	D	L	H
8410FM02	R 1/4"	11,0	24,0	58,0	20
8410FM03	R 3/8"	11,5	24,0	54,0	20
8410FM04	R 1/2"	14,0	24,0	56,5	22

**8420FF**

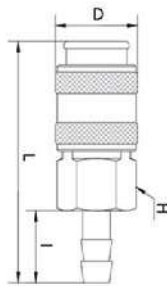
Female quick coupling BSPP thread



CODE	T	I	D	L	H
8420FF02	G 1/4"	11,0	24,0	51,0	20
8420FF03	G 3/8"	12,0	24,0	51,0	20
8420FF04	G 1/2"	14,0	28,0	55,0	25

**8430RE**

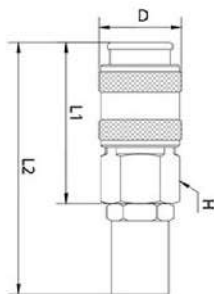
Quick coupling with barb connector



CODE	INT. TUBE Ø	I	BARB	D	L	H
8430RE06	6	20,0	6,5	24,0	67,0	20
8430RE08	8	20,0	9,0	24,0	67,0	20
8430RE10	10	20,0	11,5	24,0	67,0	20
8430RE12	12	24,0	13,5	24,0	71,0	20

**8440PO**

Quick coupling with hose connector

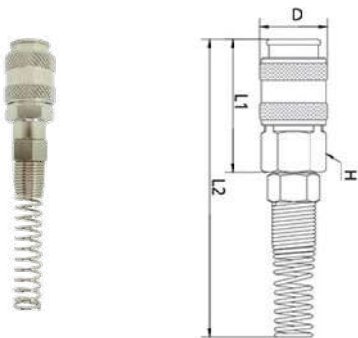


CODE	Ø	D	L1	L2	H
8440PO610	6x10	24	47,0	73,0	20
8440PO612	6x12	24	47,0	73,0	20
8440PO614	6x14	24	47,0	73,5	20
8440PO812	8x12	24	47,0	73,0	20
8440PO814	8x14	24	47,0	73,5	20
8440PO817	8x17	24	47,0	73,5	20
8440PO10145	10x14,5	24	47,0	73,5	20
8440PO1017	10x17	24	47,0	73,5	20
8440PO1019	10x19	24	47,0	77,0	20



**8450MO**

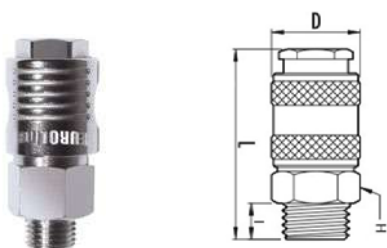
Quick coupling with push-on connector and spring



CODE	Ø	D	L1	L2	H
8450MO58	5x8	24,0	47,0	148,0	20
8450MO68	6x8	24,0	47,0	148,0	20
8450MO6510	6,5x10	24,0	47,0	148,0	20
8450MO810	8x10	24,0	47,0	148,0	20
8450MO812	8x12	24,0	38,0	155,0	20
8450MO1012	10x12	24,0	38,0	155,0	20

**8410FM-LU**

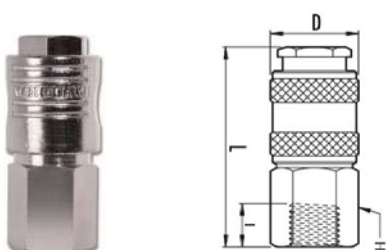
Male quick coupling BSPP thread - LIGHT FLOW



CODE	T	I	D	L	H
8410FM02LU	G 1/4"	9,0	22,0	46,0	19
8410FM03LU	G 3/8"	9,0	22,0	47,5	19
8410FM04LU	G 1/2"	10,5	22,0	48,5	22

**8420FF-LU**

Female quick coupling BSPP thread - LIGHT FLOW



CODE	T	I	D	L	H
8420FF02LU	G 1/4"	11,0	22,0	52,5	19
8420FF03LU	G 3/8"	12,0	22,0	52,5	19



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# SCIP

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UNA SFIDA, UN'OPPORTUNITÀ



#TIERREWORLD

 **TierreGroup**<sup>®</sup>

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-18°C ÷ +80°C



Working pressure:  
12 Bar



Compressed air



Parallel gas BSPP ISO 228  
from G1/8" to G1/2"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

#### PROFILE - ITALY SERIES



#### NOMINAL DIAMETER

4,8 mm

#### AIR FLOWRATE

1600 l/min



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

#### VIEW - QUICK COUPLING 8210FM



**8210FM**

Male quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8210FM01	G 1/8"	51,9	19
8210FM02	G 1/4"	52,1	19
8210FM03	G 3/8"	52,2	19
8210FM04	G 1/2"	55,5	22

**8220FF**

Female quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8220FF01	G 1/8"	52,3	19
8220FF02	G 1/4"	52,2	19
8220FF03	G 3/8"	58,0	19
8220FF04	G 1/2"	58,1	25

**8240PO**

Quick coupling with hose connector



CODE	TUBE Ø	LENGTH	WRENCH 1	WRENCH 2
8240PO610	6x10	70,5	19	15
8240PO612	6x12	72,0	19	15
8240PO613	6x13	70,5	19	16
8240PO614	6x14	70,5	19	17
8240PO716	7x16	73,2	19	19
8240PO812	8x12	70,5	19	15
8240PO813	8x13	70,5	19	15
8240PO815	8x15	70,5	19	15
8240PO817	8x17	71,1	19	20
8240PO1017	10x17	76,2	19	18
8240PO1019	10x19	77,8	19	20



**8250MO**

Quick coupling with push-on connector and spring



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8250MO46	4x6	131,1	19	12
8250MO58	5x8	140,5	19	13
8250MO68	6x8	138,7	19	12
8250MO6510	6,5x10	140,0	19	15
8250MO810	8x10	144,3	19	15
8250MO1012	10x12	148,7	19	17

**8260MM**

Male connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8260MM01	G 1/8"	34,7	13
8260MM02	G 1/4"	37,9	14
8260MM03	G 3/8"	38,2	17
8260MM04	G 1/2"	42,1	22

**8270FM**

Female connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8270FM01	G 1/8"	29,0	13
8270FM02	G 1/4"	37,0	15
8270FM03	G 3/8"	38,1	19
8270FM04	G 1/2"	42,0	25



**8230PO**

Connection with hose connector



CODE	ØD	LENGTH	WRENCH 1	WRENCH 2
8230PO610	6x10	55,5	13	15
8230PO612	6x12	55,5	13	15
8230PO613	6x13	54,8	13	16
8230PO614	6x14	55,7	12	17
8230PO716	7x16	55,1	13	19
8230PO812	8x12	55,0	13	15
8230PO813	8x13	55,0	13	16
8230PO815	8x15	55,0	13	18
8230PO817	8x17	55,4	13	20
8230PO1017	10x17	57,9	13	20
8230PO1019	10x19	59,8	13	22

**8285BM**

Bayonet male connection



CODE	ØD	LENGTH
8285BM55	5,5	155,8

**8295MO**

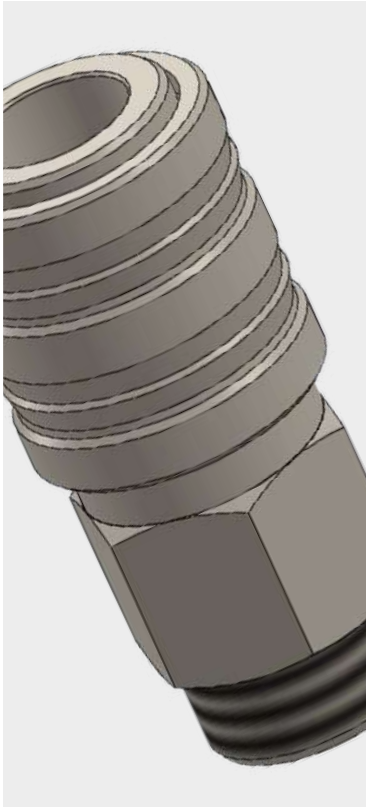
Connection with push-on connector and spring



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8295MO46	4x6	112,1	12	12
8295MO58	5x8	125,5	13	13
8295MO68	6x8	124,9	13	13
8295MO6510	6,5x10	126,0	12	15
8295MO810	8x10	123,7	13	15
8295MO812	8x12	125,5	15	17
8295MO1012	10x12	127,5	15	17







-18°C ÷ +80°C



Working pressure:  
12 Bar



Compressed air



Parallel gas BSPP ISO 228  
from G1/4" to G1/2"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

**PROFILE - GERMANY SERIES**



**NOMINAL DIAMETER**

7,0 mm

**AIR FLOWRATE**

2000 l/min

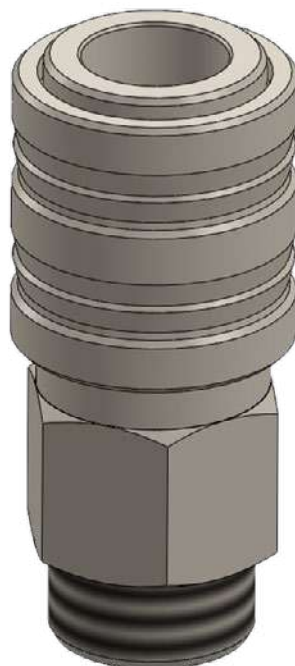


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**VIEW - QUICK COUPLING 8310FM**



**8310FM**

Male quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8310FM01	G 1/8"	50,0	19
8310FM02	G 1/4"	51,5	19
8310FM03	G 3/8"	51,5	19
8310FM04	G 1/2"	54,5	22

**8320FF**

Female quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8320FF02	G 1/4"	51,4	19
8320FF03	G 3/8"	57,0	19
8320FF04	G 1/2"	54,3	25

**8330RE**

Quick coupling with barb connector



CODE	INT. TUBE Ø	LENGTH	WRENCH
8330RE06	6	38,5	19
8330RE07	7	61,5	19
8330RE08	8	63,1	19
8330RE09	9	63,3	19
8330RE10	10	65,7	19
8330RE11	11	66,0	19
8330RE12	12	66,7	19
8330RE13	13	66,3	19
8330RE14	14	66,5	19



**8390PO**

Quick coupling with hose connector



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8390PO610	6x10	72,5	19	15
8390PO612	6x12	72,5	19	15
8390PO614	6x14	73,2	19	20
8390PO716	7x16	72,5	19	20
8390PO812	8x12	70,0	19	15
8390PO815	8x15	70,0	19	20
8390PO817	8x17	70,3	19	20
8390PO1019	10x19	76,4	19	20

**8350MO**

Quick coupling with push-on connector and spring



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8350MO46	4x6	129,0	19	12
8350MO58	5x8	139,0	19	13
8350MO68	6x8	137,0	19	13
8350MO6510	6,5x10	140,0	19	15
8350MO810	8x10	139,5	19	15
8350MO812	8x12	142,5	19	17
8350MO1012	10x12	144,7	19	17

**8360MM**

Male connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8360MM01	G 1/8"	32,0	12
8360MM02	G 1/4"	33,5	14
8360MM03	G 3/8"	35,5	17
8360MM04	G 1/2"	38,4	22

**8370FM**

Female connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8370FM02	G 1/4"	33,1	15
8370FM03	G 3/8"	35,0	19
8370FM04	G 1/2"	38,0	25



### 8340PO

Connection with hose connector



CODE	Ø	LENGTH	WRENCH 1	WRENCH2
8340PO610	6x10	54,0	13	15
8340PO612	6x12	54,0	13	15
8340PO614	6x14	53,0	13	17
8340PO716	7x16	53,0	13	18
8340PO812	8x12	54,0	13	15
8340PO815	8x15	54,0	13	18
8340PO817	8x17	54,0	13	20
8340PO1019	10x19	58,0	13	22

### 8380RE

Connection with barb connector



CODE	INTERNAL TUBE Ø	LENGTH
8380RE06	6	39,4
8380RE07	7	59,0
8380RE08	8	63,4
8380RE09	9	41,3
8380RE10	10	63,5
8380RE11	11	63,5
8380RE12	12	63,6
8380RE13	13	66,3
8380RE14	14	66,7

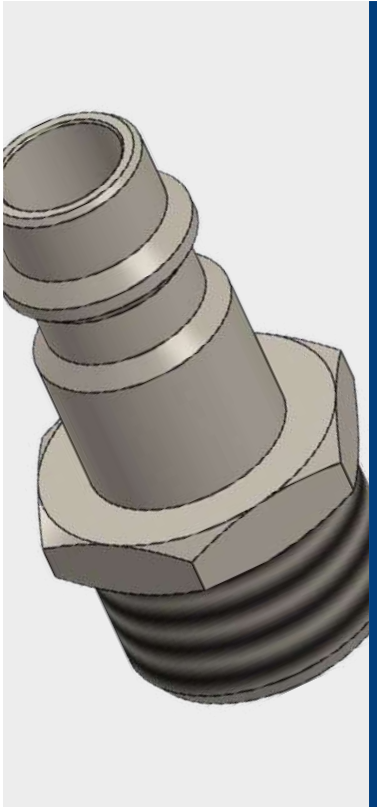
### 8395MO

Connection with push-on connector and spring



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8395MO46	4x6	110,0	13	12
8395MO58	5x8	119,5	13	13
8395MO68	6x8	120,0	13	13
8395MO6510	6,5x10	121,0	13	15
8395MO810	8x10	121,0	13	15
8395MO812	8x12	123,0	15	17
8395MO1012	10x12	121,0	15	17





-18°C ÷ +80°C



Working pressure:  
12 Bar



Compressed air



Parallel gas BSPP ISO 228  
from G1/4" to G1/2"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

**PROFILE - USA ISO 6150-B12**



**NOMINAL DIAMETER**

5,0 mm

**AIR FLOWRATE**

1600 l/min

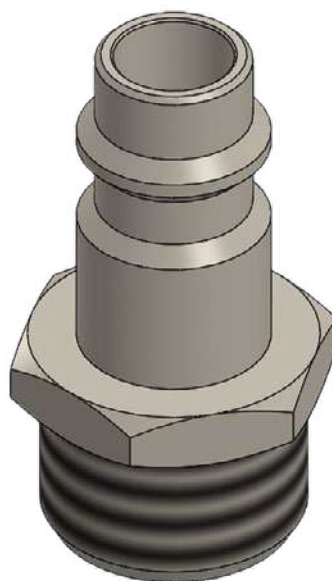


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**VIEW - CONNECTION 8060MM**



**8060MM**

Male connection BSPP thread



CODE	THREAD
8060MM02	G 1/4"
8060MM03	G 3/8"
8060MM04	G 1/2"

**8070FM**

Female connection BSPP thread



CODE	THREAD
8070FM02	G 1/4"
8070FM03	G 3/8"
8070FM04	G 1/2"

**8080RE**

Connection with barb connector



CODE	INTERNAL TUBE Ø
8080RE06	6
8080RE08	8
8080RE10	10
8080RE12	12



**8085PO**

Connection with hose connector



CODE	Ø
8085PO610	6x10
8085PO612	6x12
8085PO614	6x14
8085PO812	8x12
8085PO814	8x14
8085PO817	8x17
8085PO10145	10x14,5
8085PO1017	10x17
8085PO1019	10x19

**8090MO**

Connection with push-on connector and spring



CODE	Ø
8090MO46	4x6
8090MO58	5x8
8090MO68	6x8
8090MO6510	6,5x10
8090MO810	8x10
8090MO812	8x12
8090MO1012	10x12



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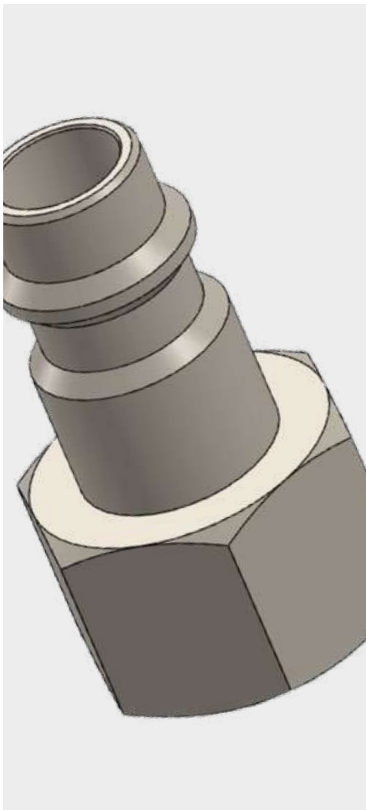
**Raccordi per  
un'unione perfetta**

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-15°C ÷ +80°C



Working pressure:  
16 Bar



Compressed air



Parallel gas BSPP ISO 228  
from G1/4" to G1/2"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

#### PROFILE - SWISS



#### NOMINAL DIAMETER

5,0 mm

#### AIR FLOWRATE

2000 l/min

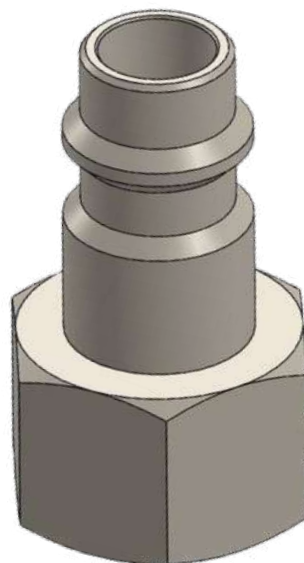


Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

#### VIEW - CONNECTION 8470FM



**8460MM**

Male connection BSPP thread



CODE	THREAD
8460MM02	G 1/4"
8460MM03	G 3/8"
8460MM04	G 1/2"

**8470FM**

Female connection BSPP thread



CODE	THREAD
8470FM02	G 1/4"
8470FM03	G 3/8"
8470FM04	G 1/2"

**8480RE**

Connection with barb connector



CODE	INTERNAL TUBE Ø
8480RE06	6
8480RE08	8
8480RE10	10
8480RE12	12



**8485PO**

Connection with hose connector



CODE	Ø
8485PO610	6x10
8485PO612	6x12
8485PO614	6x14
8485PO812	8x12
8485PO814	8x14
8485PO817	8x17
8485PO10145	10x14,5
8485PO1017	10x17
8485PO1019	10x19

**8490MO**

Connection with push-on connector and spring



CODE	Ø
8490MO46	4x6
8490MO58	5x8
8490MO68	6x8
8490MO6510	6,5x10
8490MO810	8x10
8490MO812	8x12
8490MO1012	10x12



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Always a fitting solution

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-18°C ÷ +80°C



Working pressure:  
12 Bar



Compressed air



Parallel gas BSPP ISO 228  
G3/8" and G1/2"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

#### PROFILE - LARGE SERIES



#### NOMINAL DIAMETER

9,2 mm

#### AIR FLOWRATE

2500 l/min



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

#### VIEW - QUICK COUPLING 8215FM



**8215FM**

Large male quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8215FM03	G 3/8"	62,5	26
8215FM04	G 1/2"	65,0	26

**8225FF**

Large female quick coupling BSPP thread



CODE	THREAD	LENGTH	WRENCH
8225FF03	G 3/8"	62,0	26
8225FF04	G 1/2"	65,0	26

**8235PO**

Large quick coupling with hose connector



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8235PO1019	10x19	96,0	26	24
8235PO1020	10x20	96,0	26	25
8235PO1021	10x21	96,0	26	25
8235PO1022	10x22	96,5	26	26
8235PO1023	10x23	96,5	26	27
8235PO1319	13x19	97,5	26	24
8235PO1320	13x20	97,5	26	25
8235PO1321	13x21	97,5	26	25
8235PO1323	13x23	98,0	26	27
8235PO1324	13x24	97,5	26	30
8235PO1325	13x25	97,5	26	30



**8245PO**

Large connection with hose connector



CODE	Ø	LENGTH	WRENCH 1	WRENCH 2
8245PO1019	10x19	95,0	26	25
8245PO1020	10x20	95,5	26	25
8245PO1021	10x21	96,0	26	25
8245PO1022	10x22	96,0	26	25
8245PO1023	10x23	96,0	26	27
8245PO1319	13x19	97,5	26	25
8245PO1320	13x20	97,5	26	25
8245PO1321	13x21	97,5	26	25
8245PO1323	13x23	97,5	26	27
8245PO1324	13x24	97,5	26	27
8245PO1325	13x25	97,5	26	30

**8255MM**

Large male connection BSPP thread



CODE	THREAD	LENGTH	WRENCH
8255MM03	G 3/8"	47,5	19
8255MM04	G 1/2"	50,5	22



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-18°C ÷ +80°C



Working pressure:  
12 Bar  
10 Bar (if connected with PCP)



Compressed air



Parallel gas BSPP ISO 228  
from G1/4" to G1/2"



Body: Nickel-plated brass  
Spring: Nickel-plated steel

#### PROFILE - JAPAN SERIES



#### NOMINAL DIAMETER

7,5 mm

#### AIR FLOWRATE

2000 l/min

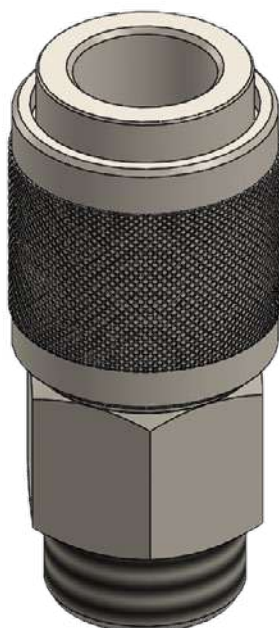


Products in compliance with  
EC Regulation 1907/2006



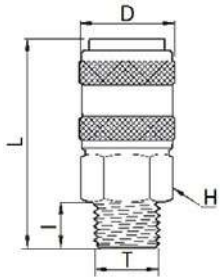
Products in compliance with  
the directive EU 2015/863

#### VIEW - QUICK COUPLING 8910FM



**8910FM**

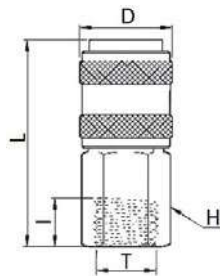
Male quick coupling BSPP thread



CODE	T	I	D	L	H
8910FM02	G 1/4"	11,0	24,0	56,5	20
8910FM03	G 3/8"	11,5	24,0	53,0	20
8910FM04	G 1/2"	14,0	24,0	55,0	22

**8920FF**

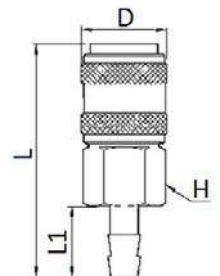
Female quick coupling BSPP thread



CODE	T	I	D	L	H
8920FF02	G 1/4"	11,0	24,0	54,0	20
8920FF03	G 3/8"	12,0	24,0	54,0	20
8920FF04	G 1/2"	14,0	24,0	55,0	20

**8930RE**

Quick coupling with barb connector

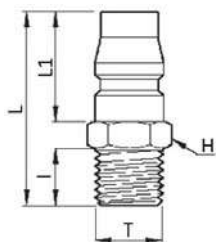


CODE	Ø	D	L1	L	H
8930RE08	8	24,0	20,0	67,0	19
8930RE10	10	24,0	20,0	67,0	19
8930RE12	12	24,0	20,0	67,0	19



**8960MM**

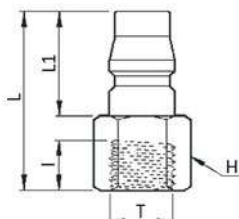
Male connection BSPP thread



CODE	T	I	L	L1	H
8960MM02	G 1/4"	11,0	37,0	21,0	14
8960MM03	G 3/8"	11,5	37,5	21,0	17
8960MM04	G 1/2"	14,0	40,5	21,0	22

**8970FM**

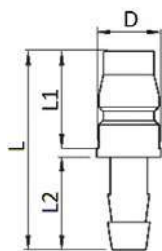
Female connection BSPP thread



CODE	T	I	L	L1	H
8970FM02	G 1/4"	12,0	36,0	21,0	17
8970FM03	G 3/8"	13,0	37,0	21,0	19
8970FM04	G 1/2"	14,0	38,0	21,0	22

**8980RE**

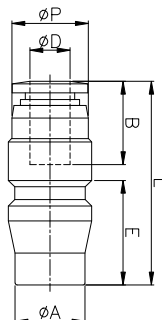
Connection with barb connector



CODE	Ø	D	L	L1	L2
8980RE06	6	20	43,0	14,0	21,0
8980RE08	8	20	43,0	14,0	21,0
8980RE10	10	20	43,0	14,0	21,0

**PCP**

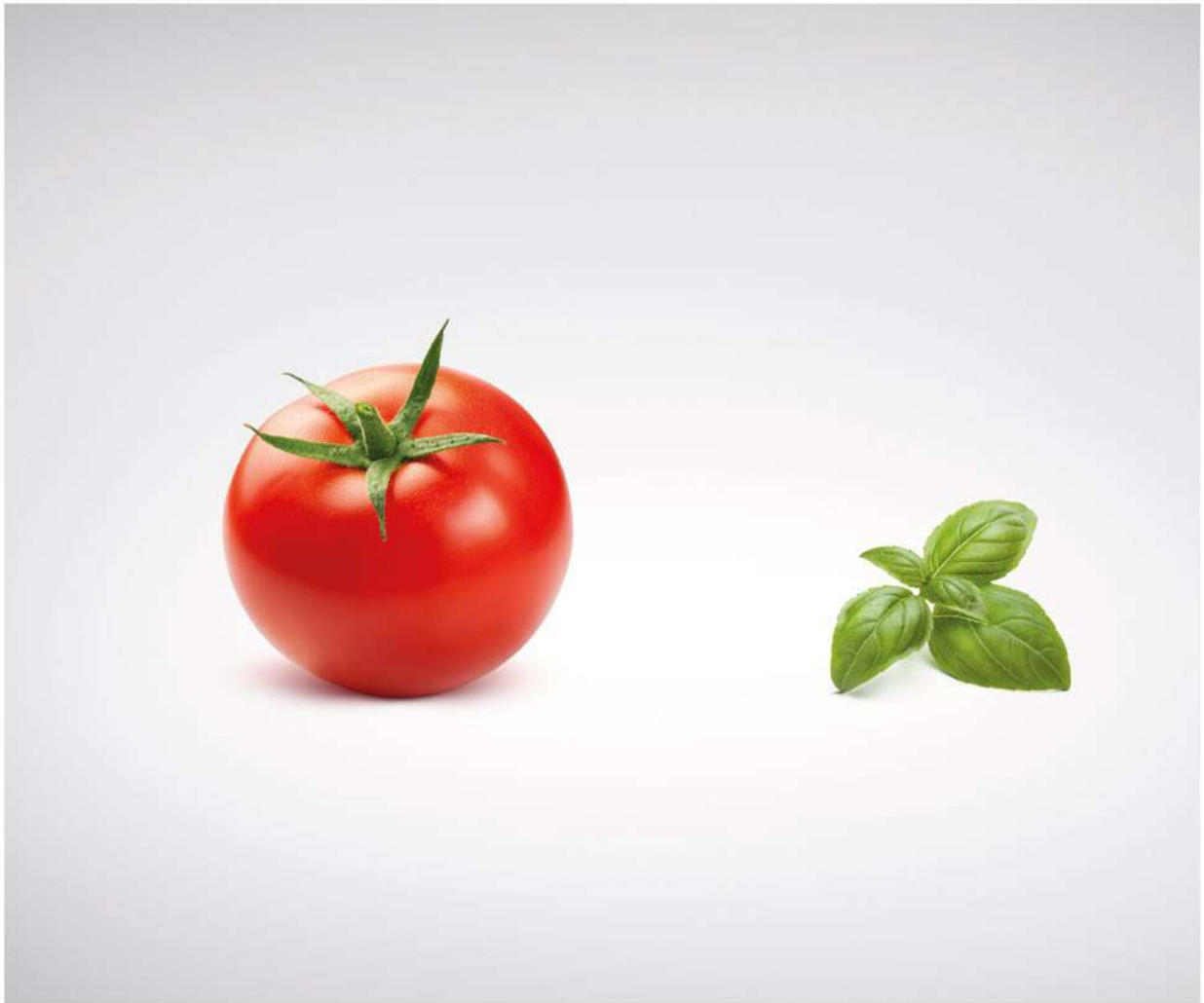
Push-in fitting connection for tube



CODE	ØD	DN	ØP	ØA	L	E	B
PCP04N	4	3,0	10,0	10,9	31,0	16,3	14,8
PCP06N	6	5,0	11,9	10,9	31,7	16,3	17,4
PCP08N	8	6,0	14,0	10,9	34,9	16,3	18,4
PCP10N	10	8,0	16,0	10,9	42,4	16,3	19,7
PCP12N	12	8,0	19,0	10,9	45,4	16,3	21,9
PCP16N	16	8,0	24,0	10,9	49,3	16,3	24,5



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**L'unione che rende  
tutto perfetto.**

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**QUICK  
COUPLINGS  
AIR&FLUIDS  
HIGH  
PERFORMANCE  
CD SERIES**

**PLUS**

**PATENTED RANGE PROFILE**

---

**EXCELLENT SEALING GUARANTEED  
BY LIP SEAL**

---

**AVAILABLE IN FOUR MATERIALS:  
STEEL, BRASS, STAINLESS STEEL AISI  
303 AND STAINLESS STEEL AISI 316**

---

**WIDE RANGE OF PASSAGES  
AVAILABLE: FROM DN 4,2 TO DN 14**

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**AVAILABLE WITH DOUBLE SHUTTER  
CONFIGURATION**



**QUICK COUPLINGS HIGH PERFORMANCE - CD SERIES / CD-12**



p. 538 / **CD-12M**



p. 538 / **CD-12H**



p. 538 / **CD-12E**



p. 539 / **ACD-12M**



p. 539 / **ACD-12H**



p. 539 / **ACD-12E**

**QUICK COUPLINGS HIGH PERFORMANCE - CD SERIES / CD-25**



p. 542 / **CD-25**



p. 542 / **ACD-25M**



p. 543 / **ACD-25H**



p. 543 / **ACD-25E**



p. 543 / **ACD-25PM**



p. 544 / **ACLD-25**

**QUICK COUPLINGS HIGH PERFORMANCE - CD SERIES / CD-25N & CD-25S**



p. 546 / **CD-25N-M**



p. 546 / **CD-25N-H**



p. 546 / **CD-25N-E**



p. 547 / **CD-25N-PM**



p. 547 / **CD-25S-M**



p. 547 / **CD-25S-H**



p. 548 / **CD-25S-E**



p. 548 / **CD-25S-PM**



p. 548 / **ACD-25M**



p. 549 / **ACD-25H**



p. 549 / **ACD-25E**



p. 549 / **ACD-25PM**

**QUICK COUPLINGS HIGH PERFORMANCE - CD SERIES / CD-50**



p. 552 / **CD-50**



p. 552 / **ACD-50M**



p. 553 / **ACD-50H**



p. 553 / **ACD-50E**



p. 553 / **ACLD-50**



**QUICK COUPLINGS HIGH PERFORMANCE - CD SERIES / CD-100**

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p. 556 / **CD-100**



p. 556 / **ACD-100M**



p. 557 / **ACD-100H**



p. 557 / **ACD-100E**



p. 557 / **ACLD-100**

**QUICK COUPLINGS HIGH PERFORMANCE - CD SERIES / CD-150**

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p. 560 / **CD-150**



p. 560 / **ACD-150M**



p. 561 / **ACD-150H**



p. 561 / **ACD-150E**



p. 561 / **ACLD-150**



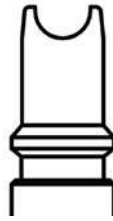
## CONNECTION PROFILES



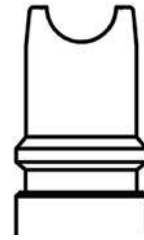
**CD-12**  
DN 4,2



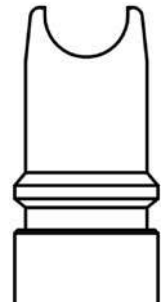
**CD-25**  
DN 5,2



**CD-50**  
DN 7

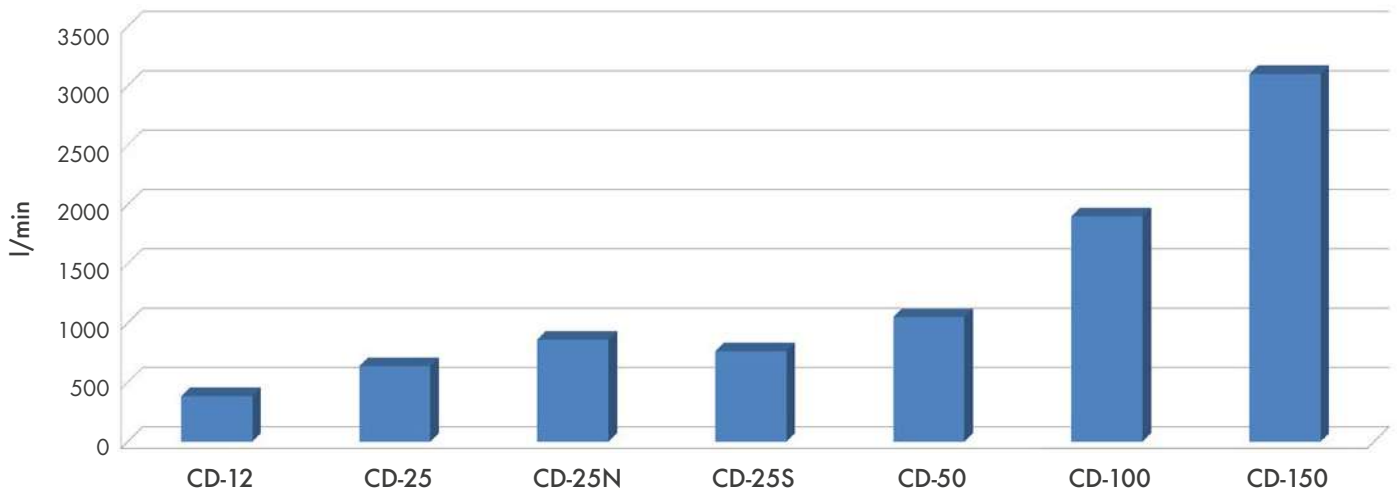


**CD-100**  
DN 10,5






**CD-150**  
DN 14

## FLOW CHART

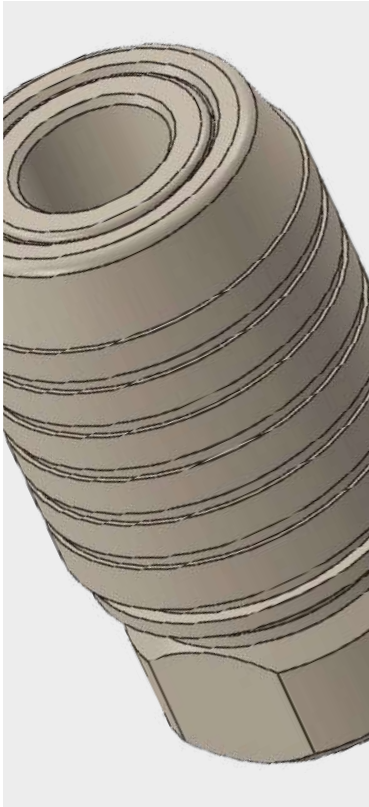


## MATERIALS TABLE

MATERIALS SERIES	BRASS	STEEL	STAINLESS STEEL AISI 303	STAINLESS STEEL AISI 316	SAFETY	 PL	 SO	 DO
CD-12		✓	✓			✓	✓	
CD-25	✓	✓	✓			✓	✓	✓
CD-25N		✓				✓	✓	
CD-25S		✓			✓		✓	
CD-50	✓	✓	✓			✓	✓	✓
CD-100	✓	✓	✓	✓		✓	✓	✓
CD-150	✓		✓	✓		✓	✓	✓







NBR: -10°C ÷ 95°C  
FKM: -15°C ÷ 200°C  
EPDM: -40°C ÷ 95°C  
Standard version: NBR



Working pressure:  
0-12 Bar (suggested)  
35 Bar (max)



CD-12: Compressed air  
CD-12-X: Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials



- Taper gas BSPT ISO 7  
R1/8" and R1/4"  
- Parallel gas BSPP ISO 228  
G1/8" and G1/4"

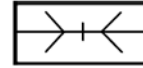
**NOMINAL DIAMETER**

4,2 mm

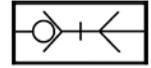
**FLOWRATE**

384 l/min

**CONFIGURATIONS**



PL  
Free  
Passage



SO  
Single  
Shutter



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

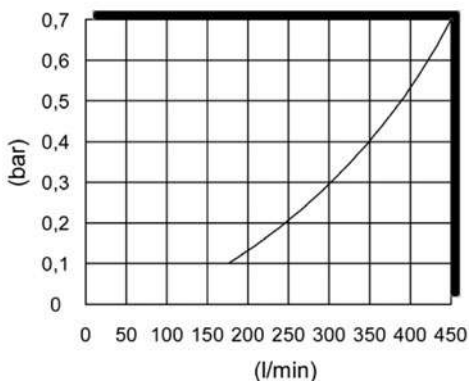
COMPONENTS	CD-12	CD-12-X
Body	Nickel-plated steel	Stainless steel AISI 303
Slide	Nickel-plated steel	Stainless steel AISI 303
Adapter	Nickel-plated steel	Stainless steel AISI 303
Valve	Stainless steel AISI 303	Stainless steel AISI 303
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Washer	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301
Pins	Stainless steel AISI 303	Stainless steel AISI 303
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM

CONNECTION	ACD-12	ACD-12-X
Body	Nickel-plated steel	Stainless steel AISI 303

**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

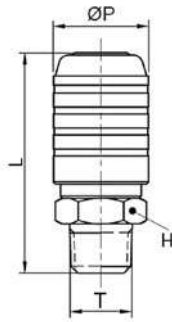


**VIEW - QUICK COUPLING CD SERIES**



**CD-12M**

Male quick coupling BSPT thread

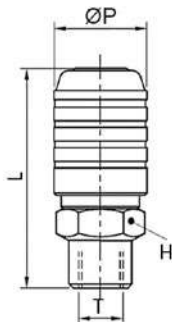


CODE	T	ØP	L	H
CD-12M1	R 1/8"	20,5	45,5	17
CD-12M1-PL	R 1/8"	20,5	45,5	17
CD-12M1-X	R 1/8"	20,5	45,5	17
CD-12M1-X-PL	R 1/8"	20,5	45,5	17
CD-12M	R 1/4"	20,5	47,0	17
CD-12M-PL	R 1/4"	20,5	47,0	17
CD-12M-X	R 1/4"	20,5	47,0	17
CD-12M-X-PL	R 1/4"	20,5	47,0	17

-PL: Free passage

**CD-12H**

Female quick coupling BSPP thread

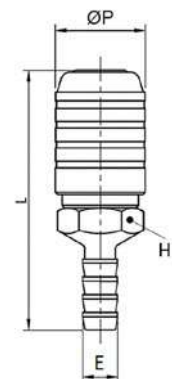


CODE	T	ØP	L	H
CD-12H1	G 1/8"	20,5	48,5	17
CD-12H1-PL	G 1/8"	20,5	48,5	17
CD-12H1-X	G 1/8"	20,5	48,5	17
CD-12H1-X-PL	G 1/8"	20,5	48,5	17
CD-12H	G 1/4"	20,5	51,5	17
CD-12H-PL	G 1/4"	20,5	51,5	17
CD-12H-X	G 1/4"	20,5	51,5	17
CD-12H-X-PL	G 1/4"	20,5	51,5	17

-PL: Free passage

**CD-12E**

Quick coupling with barb connector



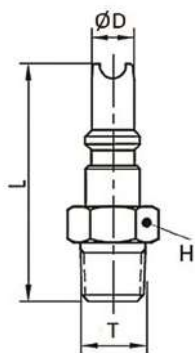
CODE	E	ØP	L	H
CD-12E6	7,2	20,5	58,5	17
CD-12E6-PL	7,2	20,5	58,5	17
CD-12E6-X	7,2	20,5	58,5	17
CD-12E6-X-PL	7,2	20,5	58,5	17
CD-12E8	9,2	20,5	58,0	17
CD-12E8-PL	9,2	20,5	58,0	17
CD-12E8-X	9,2	20,5	58,0	17
CD-12E8-X-PL	9,2	20,5	58,0	17

-PL: Free passage



**ACD-12M**

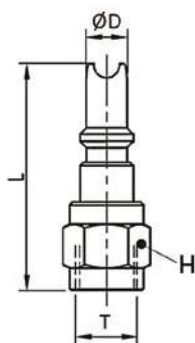
Male connection BSPT thread



CODE	T	ØD	L	H
ACD-12M1	R 1/8"	6,5	36,3	12
ACD-12M1-X	R 1/8"	6,5	36,3	12
ACD-12M	R 1/4"	6,5	38,3	12
ACD-12M-X	R 1/4"	6,5	38,3	14

**ACD-12H**

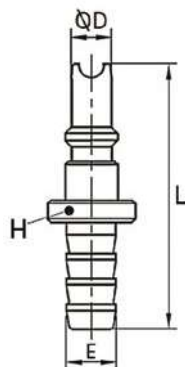
Female connection BSPP thread



CODE	T	ØD	L	H
ACD-12H1	G 1/8"	6,5	35,8	12
ACD-12H1-X	G 1/8"	6,5	35,8	12
ACD-12H	G 1/4"	6,5	37,8	12
ACD-12H-X	G 1/4"	6,5	37,8	17

**ACD-12E**

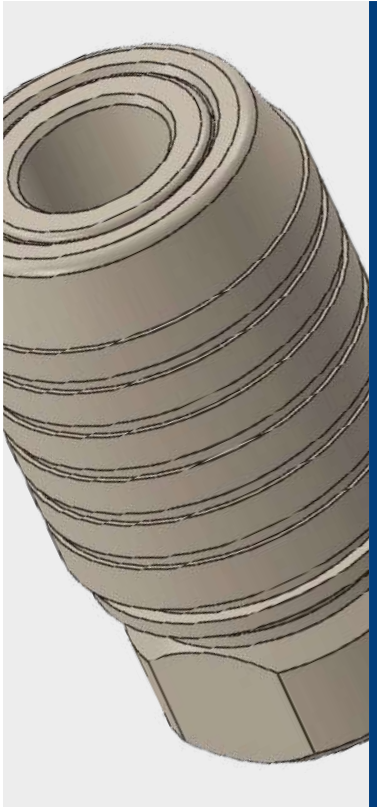
Connection with barb connector



CODE	E	ØD	L	H
ACD-12E6	7,2	6,5	42,3	14
ACD-12E6-X	7,2	6,5	42,3	14
ACD-12E8	9,2	6,5	42,3	14
ACD-12E8-X	9,2	6,5	42,3	14







NBR: -10°C ÷ 95°C  
 FKM: -15°C ÷ 200°C  
 EPDM: -40°C ÷ 95°C  
 Standard version: NBR



**Working pressure:**  
 0-12 Bar (suggested)  
 35 Bar (max)

**Working pressure ACLD-25:**  
 0-12 Bar (suggested)  
 20 Bar (max)  
 0,30 Bar (min. opening pressure)



- Taper gas BSPT ISO 7  
 R1/4" and R3/8"  
 - Parallel gas BSPP ISO 228  
 G1/4" and G3/8"

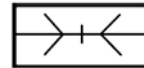
**NOMINAL DIAMETER**

5,2 mm

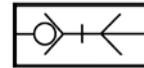
**FLOWRATE**

636 l/min

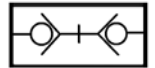
**CONFIGURATIONS**



PL  
 Free  
 Passage



SO  
 Single  
 Shutter



DO  
 Double  
 Shutter

**CD-25:** Compressed air  
**CD-25-L:** Compressed air, water, gas, non-aggressive mineral or synthetic oils and fluids suitable with construction materials  
**CD-25-X:** Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

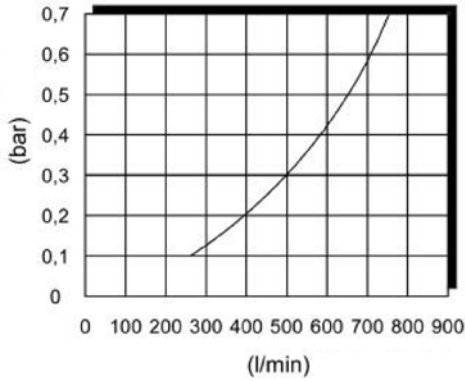
COMPONENTS	CD-25	CD-25-L	CD-25-X
Body	Nickel-plated steel	Brass	Stainless steel AISI 303
Slide	Nickel-plated steel	Brass	Stainless steel AISI 303
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
Pins	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM	NBR - FKM - EPDM

CONNECTION	ACD-25	ACD-25-L	ACD-25-X
Body	Hardened nickel-plated steel	Brass	Stainless steel AISI 303

ACLD CONNECTION	ACLD-25-L	ACLD-25-X
Body	Brass	Stainless steel AISI 303
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302
Wrench	Brass	Stainless steel AISI 303
Wrench support	Brass	Stainless steel AISI 303
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM

**FLOWRATE**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

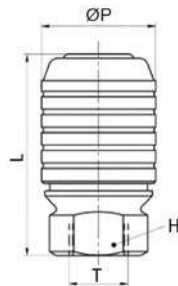


**VIEW - QUICK COUPLING CD-25**



**CD-25**

Female quick couplings BSPP thread

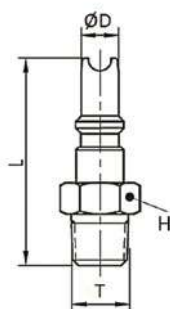


CODE	T	ØP	L	H
CD-25	G 1/4"	25,5	45,0	19
CD-25-PL	G 1/4"	25,5	45,0	19
CD-25-L	G 1/4"	25,5	45,0	19
CD-25-L-PL	G 1/4"	25,5	45,0	19
CD-25-X	G 1/4"	25,5	45,0	19
CD-25-X-PL	G 1/4"	25,5	45,0	19
CD-25-3/8	G 3/8"	25,5	45,0	19
CD-25-3/8-PL	G 3/8"	25,5	45,0	19
CD-25-3/8X	G 3/8"	25,5	45,0	19
CD-25-3/8X-PL	G 3/8"	25,5	45,0	19

-PL: Free passage

**ACD-25M**

Male connection BSPT thread

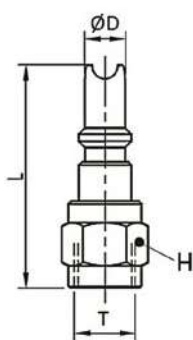


CODE	T	ØD	L	H
ACD-25M	R 1/4"	7,9	40,8	14
ACD-25M-L	R 1/4"	7,9	40,8	14
ACD-25M-X	R 1/4"	7,9	40,8	14
ACD-25M-3/8	R 3/8"	7,9	42,8	17
ACD-25M-3/8-X	R 3/8"	7,9	42,8	17



**ACD-25H**

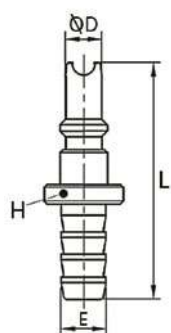
Female connection BSPP thread



CODE	T	ØD	L	H
ACD-25H	G 1/4"	7,9	40,3	17
ACD-25H-L	G 1/4"	7,9	40,3	17
ACD-25H-X	G 1/4"	7,9	40,3	17
ACD-25H-3/8	G 3/8"	7,9	41,8	20

**ACD-25E**

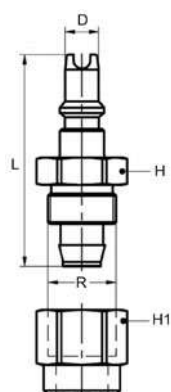
Connection with barb connector



CODE	E	ØD	L	H
ACD-25E	9,2	7,9	47,0	15
ACD-25E-L	9,2	7,9	47,0	15
ACD-25E-X	9,2	7,9	47,0	15
ACD-25E-10	11,2	7,9	47,0	15

**ACD-25PM**

Connection with push-on connector



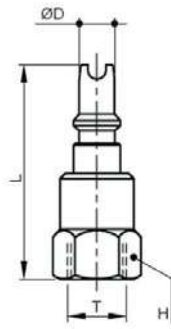
CODE	TUBE Ø	R	D	L	H	H1
ACD-25-PM08	8x12	M16x1	7,9	50,0	19	19
ACD-25-PM10	10x15	M20x1	7,9	54,7	22	22

Recommended for use with PU-PVC tube on page 751



**ACLD-25**

Female unidirectional connection BSPP thread



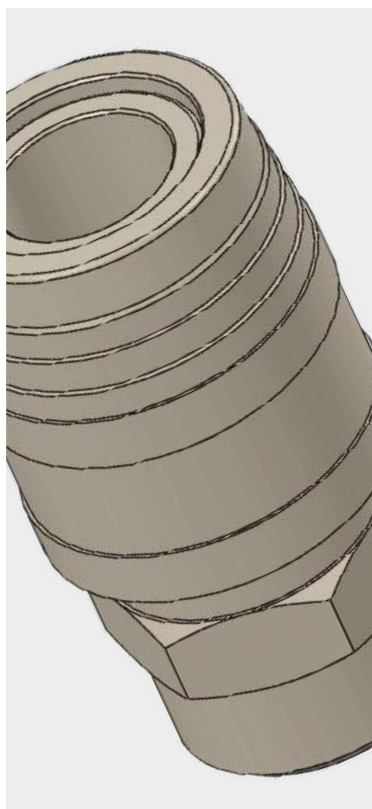
CODE	T	ØD	L	H
ACLD-25-L	G 1/4"	7,9	48,0	17
ACLD-25-X	G 1/4"	7,9	48,0	17

Do not use with CD-25N & CD-25S quick couplings

ACLD-25: Minimum opening pressure 0,30 Bar







**CD-25N:**  
 NBR:  $-10^{\circ}\text{C} \div 95^{\circ}\text{C}$   
 FKM:  $-15^{\circ}\text{C} \div 200^{\circ}\text{C}$   
 EPDM:  $-40^{\circ}\text{C} \div 95^{\circ}\text{C}$   
**CD-25S - SAFETY:**  
 NBR:  $-10^{\circ}\text{C} \div 95^{\circ}\text{C}$   
 Standard version: NBR



**Working pressure CD-25N:**  
 0-12 Bar (suggested)  
 35 Bar (max)  
**Working pressure CD-25S:**  
 0-7 Bar (suggested)



**CD-25N:** Compressed air  
**CD-25S:** Compressed air



- Taper gas BSPT ISO 7  
 from R1/4" to R1/2"  
 - Parallel gas BSPP ISO 228  
 from G1/4" to G1/2"



## NOMINAL DIAMETER

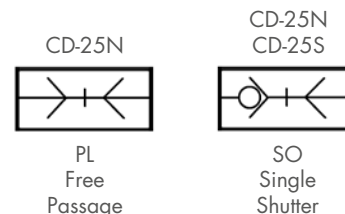
5,2 mm

## FLOWRATE

860 l/min (CD-25N)

762 l/min (CD-25S - SAFETY)

## CONFIGURAZIONI



Products in compliance with  
 EC Regulation 1907/2006



Products in compliance with  
 the directive EU 2015/863

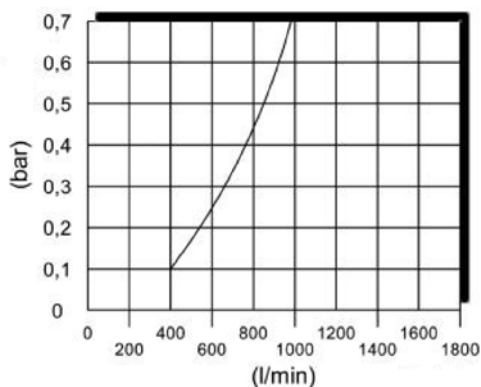
COMPONENTS	CD-25N	CD-25S - SAFETY
Body	Nickel-plated steel	Nickel-plated steel
Slide	Nickel-plated steel	Nickel-plated steel
Adapter	Nickel-plated brass	Nickel-plated brass
Valve	Nickel-plated brass	Nickel-plated brass
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Ball	Chromed steel	Chromed steel
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302
Cartridge	-	Nickel-plated steel
Seal	NBR - FKM - EPDM	NBR



CONNECTION	ACD-25	ACD-25-L	ACD-25-X
Body	Hardened nickel-plated steel	Brass	Stainless steel AISI 303

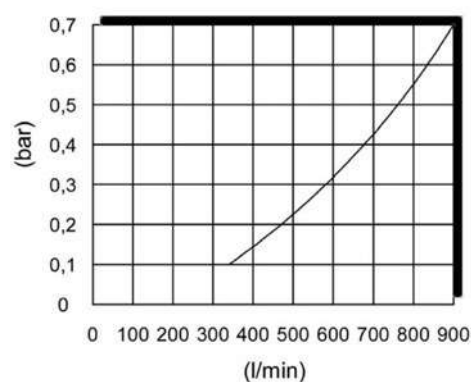
## FLOW CHART CD-25N

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.



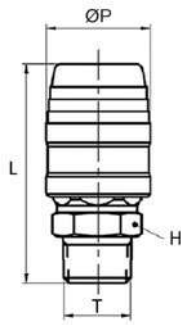
## FLOW CHART CD-25S

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.



**CD-25N-M**

Male quick coupling BSPT thread



CODE	T	ØP	L	H
CD-25N-M1/4	R 1/4"	23,6	52,1	19
CD-25N-M1/4-PL	R 1/4"	23,6	52,1	19
CD-25N-M3/8	R 3/8"	23,6	53,1	19
CD-25N-M3/8-PL	R 3/8"	23,6	53,1	19
CD-25N-M1/2	R 1/2"	23,6	57,6	22
CD-25N-M1/2-PL	R 1/2"	23,6	57,6	22

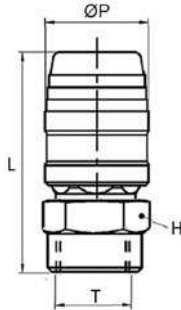
Male quick coupling BSPP thread

CD-25N-M1/4G	G 1/4"	23,6	50,6	21
CD-25N-M1/4G-PL	G 1/4"	23,6	50,6	21
CD-25N-M3/8G	G 3/8"	23,6	52,1	21
CD-25N-M3/8G-PL	G 3/8"	23,6	52,1	21
CD-25N-M1/2G	G 1/2"	23,6	55,1	24
CD-25N-M1/2G-PL	G 1/2"	23,6	55,1	24

-PL: Free Passage

**CD-25N-H**

Female quick coupling BSPP thread

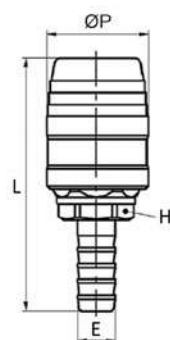


CODE	T	ØP	L	H
CD-25N-H1/4	G 1/4"	23,6	50,1	19
CD-25N-H1/4-PL	G 1/4"	23,6	50,1	19
CD-25N-H3/8	G 3/8"	23,6	51,6	22
CD-25N-H3/8-PL	G 3/8"	23,6	51,6	22
CD-25N-H1/2	G 1/2"	23,6	55,8	25
CD-25N-H1/2-PL	G 1/2"	23,6	55,8	25

-PL: Free Passage

**CD-25N-E**

Quick coupling with barb connector



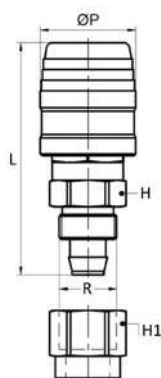
CODE	E	ØP	L	H
CD-25N-E6	7,2	23,6	59,6	19
CD-25N-E6-PL	7,2	23,6	59,6	19
CD-25N-E8	9,2	23,6	59,6	19
CD-25N-E8-PL	9,2	23,6	59,6	19
CD-25N-E10	11,2	23,6	63,6	19
CD-25N-E10-PL	11,2	23,6	63,6	19
CD-25N-E12	13,2	23,6	13,2	19
CD-25N-E12-PL	13,2	23,6	13,2	19
CD-25N-E13	13,8	23,6	13,8	19
CD-25N-E13-PL	13,8	23,6	13,8	19

-PL: Free Passage



**CD-25N-PM**

Quick coupling with push-on connector



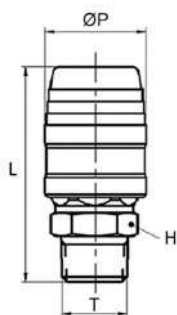
CODE	TUBE Ø	R	ØP	L	H	H1
CD-25N-PM08	8x12	M16x1	23,6	62,3	19	19
CD-25N-PM08-PL	8x12	M16x1	23,6	62,3	19	19
CD-25N-PM10	10x15	M20x1	23,6	67,1	22	22
CD-25N-PM10-PL	10x15	M20x1	23,6	67,1	22	22

Recommended for use with PU-PVC tube on page 751

-PL: Free Passage

**CD-25S-M**

Safety male quick coupling BSPT thread



CODE	T	ØP	L	H
CD-25S-M1/4	R 1/4"	26,6	54,1	19
CD-25S-M3/8	R 3/8"	26,6	55,1	19
CD-25S-M1/2	R 1/2"	26,6	59,6	22

Safety male quick coupling BSPP thread

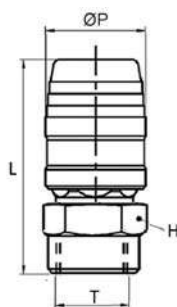
CD-25S-M1/4G	G 1/4"	26,6	57,1	24
CD-25S-M3/8G	G 3/8"	26,6	54,1	21
CD-25S-M1/2G	G 1/2"	26,6	57,1	24

**CD-25S-M**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**CD-25S-H**

Safety female quick coupling BSPP thread



CODE	T	ØP	L	H
CD-25S-H1/4	G 1/4"	26,6	52,1	19
CD-25S-H3/8	G 3/8"	26,6	53,6	22
CD-25S-H1/2	G 1/2"	26,6	57,8	25

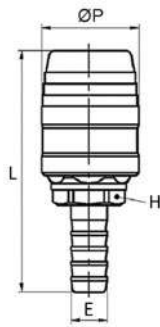
**CD-25S-H**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.



**CD-25S-E**

Safety quick coupling with barb connector



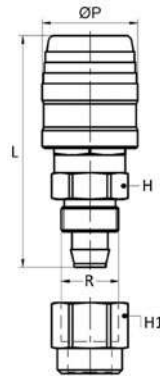
CODE	E	ØP	L	H
CD-25S-E6	7,2	26,6	61,6	19
CD-25S-E8	9,2	26,6	61,6	19
CD-25S-E10	11,2	26,6	65,6	19
CD-25S-E12	13,2	26,6	70,6	19
CD-25S-E13	13,8	26,6	70,6	19

**CD-25S-E**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**CD-25S-PM**

Safety quick coupling with push-on connector



CODE	TUBE Ø	R	ØP	L	H	H1
CD-25S-PM08	8x12	M16x1	26,6	65,4	19	19
CD-25S-PM10	10x15	M20x1	26,6	70,2	22	22

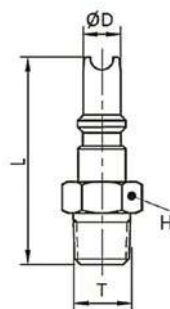
Recommended for use with PU-PVC tube on page 751

**CD-25S-PM**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**ACD-25M**

Male connection BSPT thread

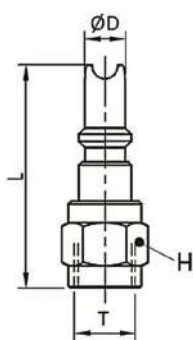


CODE	T	ØD	L	H
ACD-25M	R 1/4"	7,9	40,8	14
ACD-25M-L	R 1/4"	7,9	40,8	14
ACD-25M-X	R 1/4"	7,9	40,8	14
ACD-25M-3/8	R 3/8"	7,9	42,8	17
ACD-25M-3/8-X	R 3/8"	7,9	42,8	17



**ACD-25H**

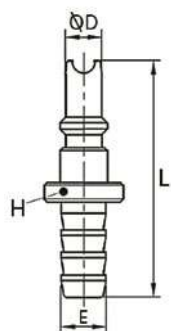
Female connection BSPP thread



CODE	T	ØD	L	H
ACD-25H	G 1/4"	7,9	40,3	17
ACD-25H-L	G 1/4"	7,9	40,3	17
ACD-25H-X	G 1/4"	7,9	40,3	17
ACD-25H-3/8	G 3/8"	7,9	41,8	20

**ACD-25E**

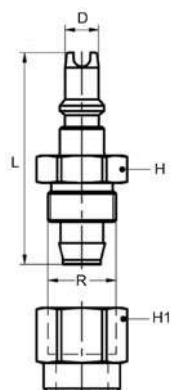
Connection with barb connector



CODE	E	ØD	L	H
ACD-25E	9,2	7,9	47,0	15
ACD-25E-L	9,2	7,9	47,0	15
ACD-25E-X	9,2	7,9	47,0	15
ACD-25E-10	11,2	7,9	47,0	15

**ACD-25PM**

Connection with push-on connector

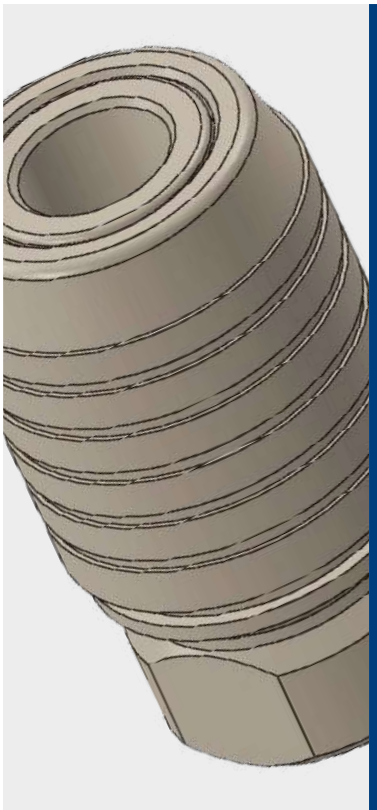


CODE	TUBE Ø	R	D	L	H	H1
ACD-25-PM08	8x12	M16x1	7,9	50,0	19	19
ACD-25-PM10	10x15	M20x1	7,9	54,7	22	22

Recommended for use with PU-PVC tube on page 751







NBR: -10°C ÷ 95°C  
 FKM: -15°C ÷ 200°C  
 EPDM: -40°C ÷ 95°C  
 Standard version: NBR



**Working pressure:**  
 0-12 Bar (suggested)  
 35 Bar (max)  
**Working pressure ACLD-50:**  
 0-12 Bar (suggested)  
 20 Bar (max)  
 0,30 Bar (min. opening pressure)



- Taper gas BSPT ISO 7  
 R3/8"  
 - Parallel gas BSPP ISO 228  
 G3/8"

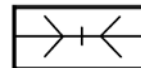
**NOMINAL DIAMETER**

7 mm

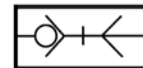
**FLOWRATE**

1050 l/min

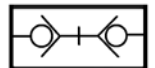
**CONFIGURATIONS**



PL  
 Free  
 Passage



SO  
 Single  
 Shutter



DO  
 Double  
 Shutter



CD-50: Compressed air  
 CD-50-L: Compressed air, water, gas, non-aggressive mineral or synthetic oils and fluids suitable with construction materials  
 CD-50-X: Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863



COMPONENTS	CD-50	CD-50-L	CD-50-X
Body	Nickel-plated steel	Brass	Stainless steel AISI 303
Slide	Nickel-plated steel	Brass	Stainless steel AISI 303
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
Pins	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM	NBR - FKM - EPDM

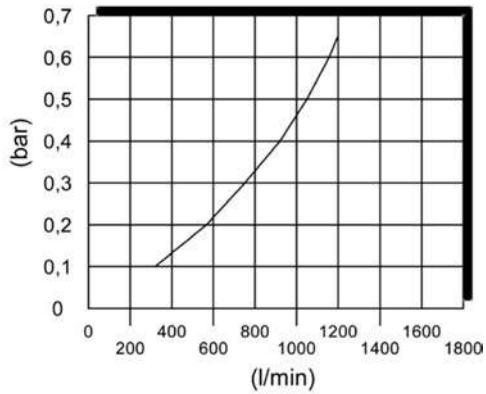
CONNECTION	ACD-50	ACD-50-L	ACD-50-X
Body	Hardened nickel-plated steel	Brass	Stainless steel AISI 303

CONNECTION ACLD		ACLD-50-L	ACLD-50-X
Body		Brass	Stainless steel AISI 303
Spring		Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring		Stainless steel AISI 302	Stainless steel AISI 302
Wrench		Brass	Stainless steel AISI 303
Wrench support		Brass	Stainless steel AISI 303
Seal		NBR - FKM - EPDM	NBR - FKM - EPDM



**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

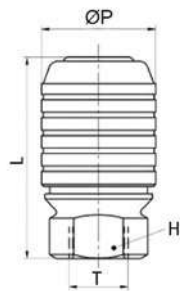


**VIEW - QUICK COUPLING CD-50**



**CD-50**

Female quick coupling BSPP thread

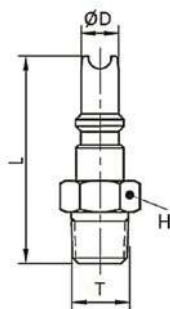


CODE	T	ØP	L	H
CD-50	G 3/8"	28,5	54,0	23
CD-50-PL	G 3/8"	28,5	54,0	23
CD-50-L	G 3/8"	28,5	54,0	23
CD-50-L-PL	G 3/8"	28,5	54,0	23
CD-50-X	G 3/8"	28,5	54,0	23
CD-50-X-PL	G 3/8"	28,5	54,0	23

-PL: Free Passage

**ACD-50M**

Male connection BSPT thread



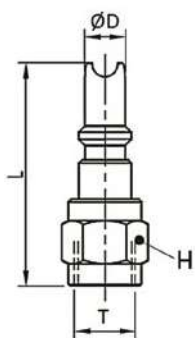
CODE	T	ØD	L	H
ACD-50M	R 3/8"	10,3	47,5	17
ACD-50M-L	R 3/8"	10,3	47,5	17
ACD-50M-X	R 3/8"	10,3	47,5	17





**ACD-50H**

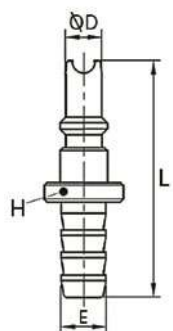
Female connection BSPP thread



CODE	T	ØD	L	H
ACD-50H	G 3/8"	10,3	49,0	22
ACD-50H-L	G 3/8"	10,3	49,0	22
ACD-50H-X	G 3/8"	10,3	49,0	22

**ACD-50E**

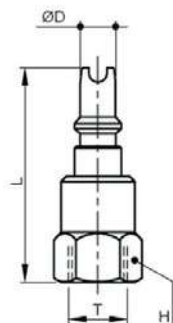
Connection with barb connector



CODE	E	ØD	L	H
ACD-50E	11,2	10,3	56,5	20
ACD-50E-L	11,2	10,3	56,5	20
ACD-50E-X	11,2	10,3	56,5	20

**ACLD-50**

Female unidirectional connection BSPP thread

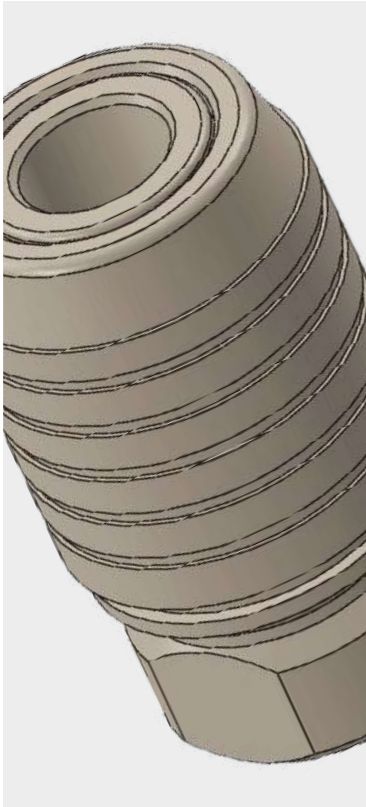


CODE	T	ØD	L	H
ACLD-50-L	G 3/8"	10,3	58,5	22
ACLD-50-X	G 3/8"	10,3	58,5	22

ACLD-50: Min. opening pressure 0.30 Bar







NBR: -10°C ÷ 95°C  
 FKM: -15°C ÷ 200°C  
 EPDM: -40°C ÷ 95°C  
 Standard version: NBR  
 Stainless steel AISI 316 version:  
 FKM



**Working pressure:**  
 0-12 Bar (suggested)  
 35 Bar (max)

**Working pressure ACLD-50:**  
 0-12 Bar (suggested)  
 20 Bar (max)  
 0,08 Bar (min.opening pressure)



- Taper gas BSPT ISO 7  
 R1/2"  
 - Parallel gas BSPP ISO 228  
 G1/2"

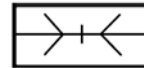
**NOMINAL DIAMETER**

10,5 mm

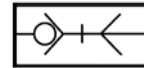
**FLOWRATE**

1900 l/min

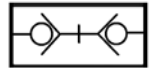
**CONFIGURATIONS**



PL  
 Free  
 Passage



SO  
 Single  
 Shutter



DO  
 Double  
 Shutter



CD-100: Compressed air  
 CD-100-L: Compressed air, water, gas, non-aggressive mineral or synthetic oils and fluids suitable with construction materials  
 CD-100-X: Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials  
 CD-100-X-316: Compressed air, water, chemicals, applications in highly corrosive environments and fluids suitable with construction materials



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863



COMPONENTS	CD-100	CD-100-L	CD-100-X	CD-100-X-316
Body	Nickel-plated steel	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Slide	Nickel-plated steel	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
Pins	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 303
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM	NBR - FKM - EPDM	NBR - FKM - EPDM

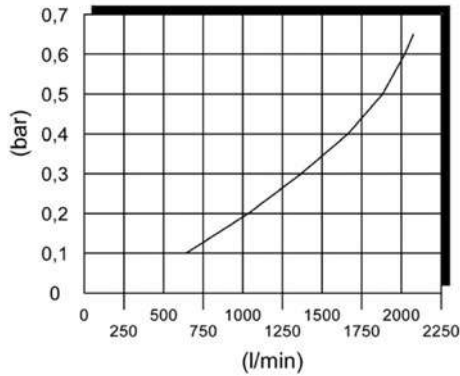


CONNECTION	ACD-100	ACD-100-L	ACD-100-X	ACD-100-X-316
Body	Hardened nickel-plated steel	Brass	Stainless steel AISI 303	Stainless steel AISI 316

CONNECTION ACLD	ACLD-100-L	ACLD-100-X
Body	Brass	Stainless steel AISI 303
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302
Wrench	Brass	Stainless steel AISI 303
Wrench support	Brass	Stainless steel AISI 303
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM

**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

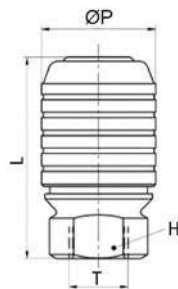


**VIEW - QUICK COUPLING CD-100**



**CD-100**

Female quick coupling BSPP thread

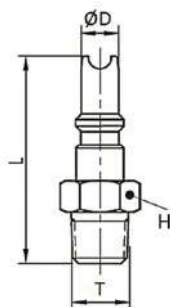


CODE	T	ØP	L	H
CD-100	G 1/2"	33,5	61,0	27
CD-100-PL	G 1/2"	33,5	61,0	27
CD-100-L	G 1/2"	33,5	61,0	27
CD-100-L-PL	G 1/2"	33,5	61,0	27
CD-100-X	G 1/2"	33,5	61,0	27
CD-100-X-PL	G 1/2"	33,5	61,0	27
CD-100-X-316	G 1/2"	33,5	61,0	27
CD-100-X-316-PL	G 1/2"	33,5	61,0	27

-PL: Free Passage

**ACD-100M**

Male connection BSPT thread

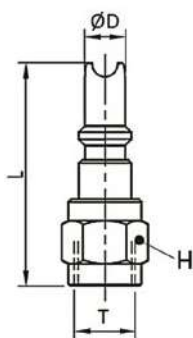


CODE	T	ØD	L	H
ACD-100M	R 1/2"	14,3	55,0	22
ACD-100M-L	R 1/2"	14,3	55,0	22
ACD-100M-X	R 1/2"	14,3	55,0	22



**ACD-100H**

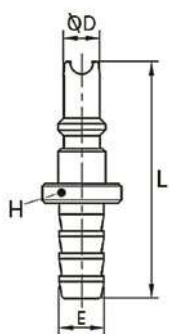
Female connection BSPP thread



CODE	T	ØD	L	H
ACD-100H	G 1/2"	14,3	58,0	27
ACD-100H-L	G 1/2"	14,3	58,0	27
ACD-100H-X	G 1/2"	14,3	58,0	27
ACD-100H-X-316	G 1/2"	14,3	58,0	27

**ACD-100E**

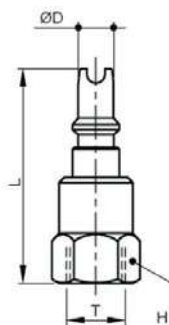
Connection with barb connector



CODE	E	ØD	L	H
ACD-100E-10	11,2	14,3	60,0	25
ACD-100E-10-L	11,2	14,3	60,0	25
ACD-100E-10X	11,2	14,3	60,0	25
ACD-100E-12X	13,2	14,3	60,0	25
ACD-100E	15,2	14,3	65,0	25
ACD-100E-L	15,2	14,3	65,0	25
ACD-100E-X	15,2	14,3	65,0	25

**ACLD-100**

Female unidirectional connection BSPP thread

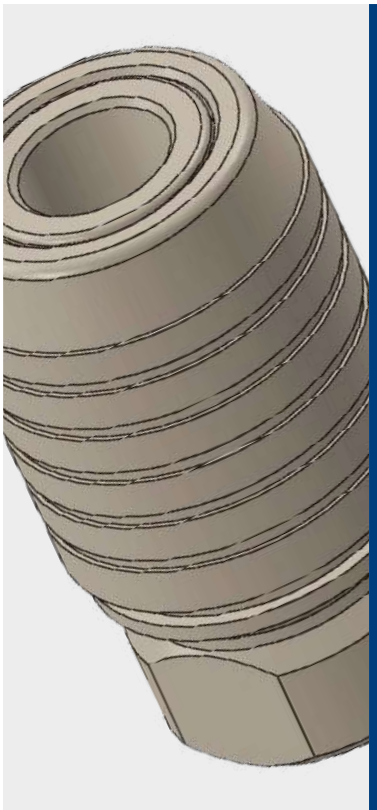


CODE	T	ØD	L	H
ACLD-100-L	G 1/2"	14,3	70,0	27
ACLD-100-X	G 1/2"	14,3	70,0	27

ACLD-100: Min. opening pressure 0,08 Bar







NBR: -10°C ÷ 95°C  
 FKM: -15°C ÷ 200°C  
 EPDM: -40°C ÷ 95°C  
 Standard version: NBR



**Working pressure:**  
 0-12 Bar (suggested)  
 35 Bar (max)

**Working pressure ACLD-50:**  
 0-12 Bar (suggested)  
 20 Bar (max)  
 0,1 Bar (min. opening pressure)



- Taper gas BSPT ISO 7  
 R3/4" and R1"  
 - Parallel gas BSPP ISO 228  
 G3/4" and G 1"

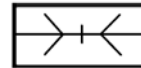
**NOMINAL DIAMETER**

14 mm

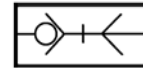
**FLOWRATE**

3100 l/min

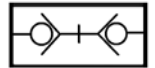
**CONFIGURATIONS**



PL  
 Free  
 Passage



SO  
 Single  
 Shutter



DO  
 Double  
 Shutter



CD-150-L: Compressed air, water, gas, non-aggressive mineral or synthetic oils and fluids suitable with construction materials  
 CD-150-X: Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials  
 CD-150-X-316: Compressed air, water, chemicals, applications in highly corrosive environments and fluids suitable with construction materials



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863



COMPONENTS	CD-150-L	CD-150-X	CD-150-X-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Slide	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Valve	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Washer	Stainless steel AISI 304	Stainless steel AISI 304	Stainless steel AISI 304
Clip	Stainless steel AISI 301	Stainless steel AISI 301	Stainless steel AISI 301
Pins	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 304
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM	NBR - FKM - EPDM

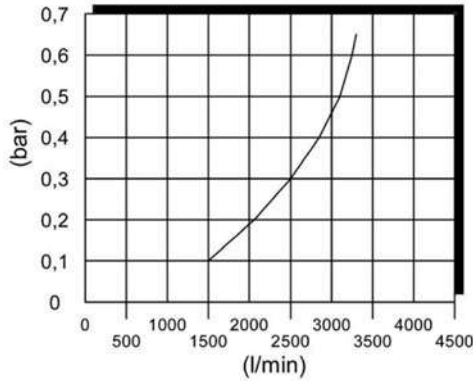
INNESTO	ACD-150-L	ACD-150-X	ACD-150-X-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316

CONNECTION ACLD	ACLD-150-L	ACLD-150-X	ACLD-150-X-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Wrench	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Wrench support	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Seal	NBR - FKM - EPDM	NBR - FKM - EPDM	NBR - FKM - EPDM



**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

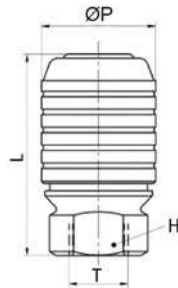


**VIEW - QUICK COUPLING CD-150**



**CD-150**

Female quick coupling BSPP thread

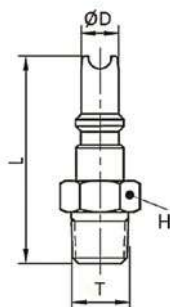


CODE	T	ØP	L	H
CD-150-L	G 3/4"	44,0	85,7	34
CD-150-L-PL	G 3/4"	44,0	85,7	34
CD-150-X	G 3/4"	44,0	85,7	34
CD-150-X-PL	G 3/4"	44,0	85,7	34
CD-150-X-316	G 3/4"	44,0	85,7	34
CD-150-X-316-PL	G 3/4"	44,0	85,7	34
CD-150-L-P	G 1"	44,0	92,7	38
CD-150-L-P-PL	G 1"	44,0	92,7	38
CD-150-X-P	G 1"	44,0	92,7	38
CD-150-X-P-PL	G 1"	44,0	92,7	38
CD-150-X-316-P	G 1"	44,0	92,7	38
CD-150-X-316-P-PL	G 1"	44,0	92,7	38

-PL: Free Passage

**ACD-150M**

Male connection BSPT thread



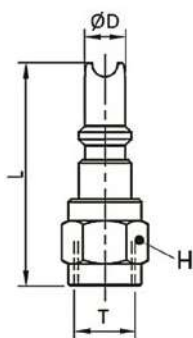
CODE	T	ØD	L	H
ACD-150M-L	R 3/4"	19	74,7	27
ACD-150M-X	R 3/4"	19	74,7	27
ACD-150M-X-316	R 3/4"	19	74,7	27
ACD-150M-L-P	R 1"	19	79,7	36
ACD-150M-X-P	R 1"	19	74,7	36
ACD-150M-X-316-P	R 1"	19	79,7	36





**ACD-150H**

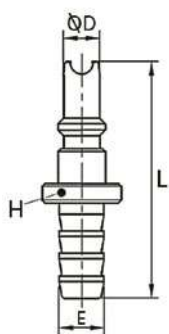
Female connection BSPP thread



CODE	T	ØD	L	H
ACD-150H-L	G 3/4"	19	76,7	32
ACD-150H-X	G 3/4"	19	76,7	32
ACD-150H-X-316	G 3/4"	19	76,7	32
ACD-150H-LP	G 1"	19	78,7	40
ACD-150H-X-P	G 1"	19	78,7	41
ACD-150H-X-316-P	G 1"	19	78,7	41

**ACD-150E**

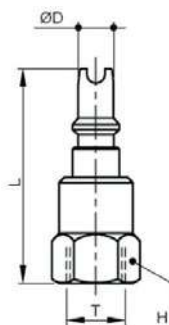
Connection with barb connector



CODE	E	ØD	L	H
ACD-150E-L	21,0	19	89,7	32
ACD-150E-X	21,0	19	89,7	32
ACD-150E-X-316	21,0	19	89,7	32

**ACLD-150**

Female unidirectional connection BSPP thread



CODE	T	ØD	L	H
ACLD-150-L	G 3/4"	19	93,0	34
ACLD-150-X	G 3/4"	19	93,0	36
ACLD-150X-316	G 3/4"	19	93,0	36
ACLD-150-LP	G 1"	19	93,0	40
ACLD-150X-P	G 1"	19	93,0	41
ACLD-150X-316-P	G 1"	19	93,0	41

**ACLD-150:** Min. opening pressure 0.1 Bar



**QUICK  
COUPLINGS  
AIR&FLUIDS  
HIGH  
PERFORMANCE**

**PLUS**

**DIFFERENT PRODUCTS WITH SAFETY  
AND ANTI-WHIPLASH SYSTEMS**

---

**EASY CONNECTION AND  
DISCONNECTION**

---

**AVAILABLE WITH FREE PASSAGE,  
SINGLE AND DOUBLE SHUTTERS**

---

**WIDE CHOICE OF CONSTRUCTION  
MATERIALS**

---

**REDUCED DIMENSIONS WITH A  
HIGH STRENGTH**

---

**HIGH FLOW RATE TO OPTIMISE THE  
PLANTS PERFORMANCE**



QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / FLUID-10N & FLUID-10S

					
p.570/ <b>FLUID-10N-M</b>	p.571/ <b>FLUID-10N-H</b>	p.571/ <b>FLUID-10N-E</b>	p.572/ <b>FLUID-10N-PM</b>	p.572/ <b>FLUID-10S-M</b>	p.572/ <b>FLUID-10S-H</b>
					
p.573/ <b>FLUID-10S-E</b>	p.573/ <b>FLUID-10S-PM</b>	p.573/ <b>NE-10M</b>	p.574/ <b>NE-10H</b>	p.574/ <b>NE-10E</b>	p.574/ <b>NE-10PM</b>

QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / FLUID-20N

					
p. 576 / <b>FLUID-20N-M</b>	p. 576 / <b>FLUID-20N-H</b>	p. 576 / <b>FLUID-20N-E</b>	p. 577 / <b>NE-20M</b>	p. 577 / <b>NE-20H</b>	p. 577 / <b>NE-20E</b>

QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / FLUID-30

				
p. 580 / <b>FLUID-30M</b>	p. 580 / <b>FLUID-30H</b>	p. 580 / <b>NE-30M</b>	p. 581 / <b>NE-30H</b>	p. 581 / <b>NE-30E</b>

QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / MICRO SERIES

	
p. 584 / <b>MICRO-H</b>	p. 584 / <b>AMC-H</b>



**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / MINI SERIES**

					
p. 586 / <b>MINI-M</b>	p. 586 / <b>MINI-H</b>	p. 586 / <b>MINI-E</b>	p. 587 / <b>MINI-RR</b>	p. 587 / <b>MINI-MM</b>	p. 587 / <b>MINI-RRR</b>
					
p. 588 / <b>AMN-M</b>	p. 588 / <b>AMN-H</b>	p. 588 / <b>AMN-E</b>	p. 589 / <b>AMN-RR</b>	p. 589 / <b>AMN-RRR</b>	

**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / MINI-DO SERIES**

					
p. 592 / <b>MINIDO-M</b>	p. 592 / <b>MINIDO-H</b>	p. 593 / <b>MINIDO-E</b>	p. 593 / <b>MINIDO-RR</b>	p. 593 / <b>MINIDO-MM</b>	p. 594 / <b>MINIDO-RRR</b>
					
p. 594 / <b>AMNDO-M</b>	p. 594 / <b>AMNDO-H</b>	p. 595 / <b>AMNDO-E</b>	p. 595 / <b>AMNDO-RR</b>	p. 595 / <b>AMNDO-MM</b>	p. 596 / <b>AMNDO-RRR</b>

**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / EUROSTANDARD**

					
p. 598 / <b>EU-75N-M</b>	p. 599 / <b>EU-75N-H</b>	p. 599 / <b>EU-75N-E</b>	p. 600 / <b>EU-75N-PM</b>	p. 600 / <b>EU-75S-M</b>	p. 600 / <b>EU-75S-H</b>
					
p. 601 / <b>EU-75S-E</b>	p. 601 / <b>EU-75S-PM</b>	p. 601 / <b>AEU-75M</b>	p. 602 / <b>AEU-75H</b>	p. 602 / <b>AEU-75E</b>	p. 602 / <b>AEU-75PM</b>



**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / EUROSTANDARD-DO**

					
p. 604 / <b>EU-DO75-M</b>	p. 604 / <b>EU-DO75-H</b>	p. 605 / <b>EU-DO75-E</b>	p. 605 / <b>AEU-DO75M</b>	p. 605 / <b>AEU-DO75H</b>	p. 606 / <b>AEU-DO75E</b>

**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / EUROFLUID**

					
p. 608 / <b>EUROFLUID-M</b>	p. 608 / <b>EUROFLUID-H</b>	p. 608 / <b>EUROFLUID-E</b>	p. 609 / <b>EUROFLUID-PM</b>	p. 609 / <b>NE-10M</b>	p. 609 / <b>NE-10H</b>
					
p. 610 / <b>NE-10E</b>	p. 610 / <b>NE-10PM</b>	p. 610 / <b>AEU-75M</b>	p. 611 / <b>AEU-75H</b>	p. 611 / <b>AEU-75E</b>	p. 611 / <b>AEU-75PM</b>

**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / CRHL-12**

					
p. 614 / <b>CRHL12-M</b>	p. 614 / <b>CRHL12-R-M</b>	p. 614 / <b>CRHL12-H</b>	p. 615 / <b>CRHL12-R-H</b>	p. 615 / <b>ACRHL12-M-C</b>	p. 615 / <b>ACRHL12-H</b>

**QUICK COUPLINGS AIR&FLUIDS - HIGH PERFORMANCE / CRM-55**

					
p. 618 / <b>CRM-55-M</b>	p. 618 / <b>CRM-55-H</b>	p. 618 / <b>CRM-55-E</b>	p. 619 / <b>ACRM-55-M</b>	p. 619 / <b>ACRM-55-H</b>	p. 619 / <b>ACRM-55-E</b>



## CONNECTION PROFILES

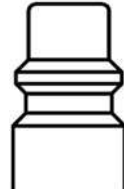
---



**FLUID-10N**  
DN 5,5



**FLUID-10S**  
DN 5,5



**FLUID-20N**  
DN 8



**FLUID-30**  
DN 12



**MICRO**  
DN 2,5



**MINI**  
DN 5,5



**MINIDO**  
DN 4,2



**EU-75N**  
DN 7,6



**EU-75S**  
DN 7,6



**EU-DO75**  
DN 5,1



**EUROFLUID  
NE-10**  
DN 5,5



**EUROFLUID  
AEU-75**  
DN 7,6



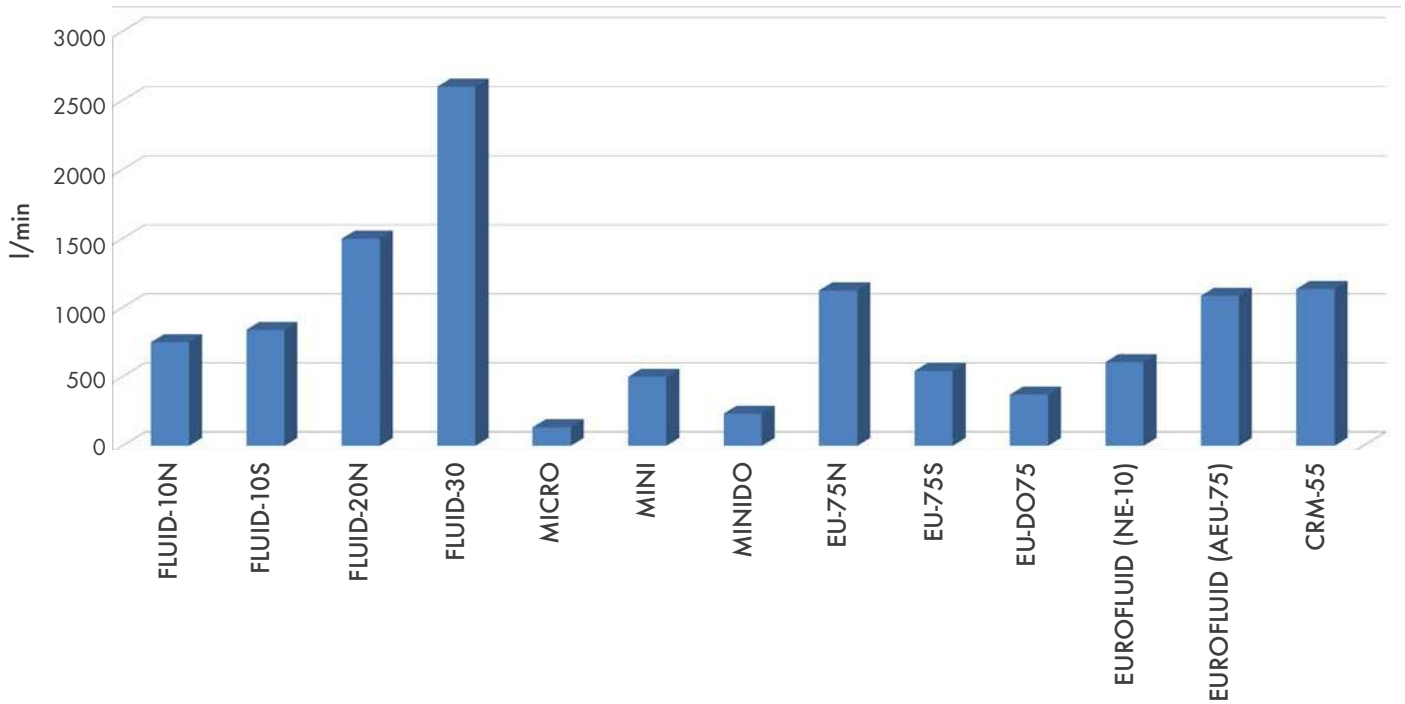
**CHRL12**  
DN 12,1






**CRM-55**  
DN 8,5



**FLOW CHART**

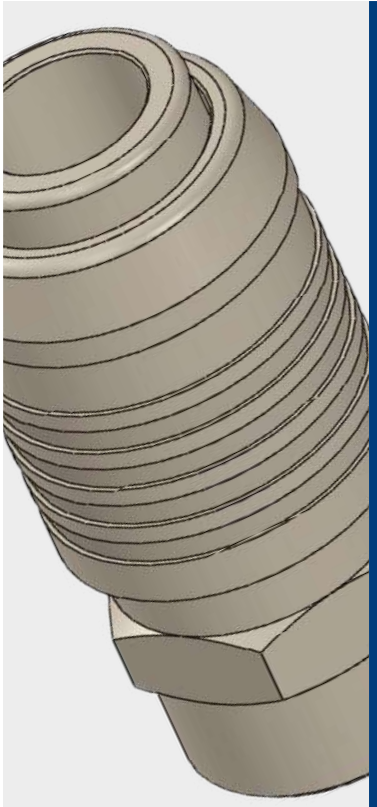


**MATERIALS TABLE**

MATERIALS FOR SERIES	BRASS	STEEL	STAINLESS STEEL AISI 303	STAINLESS STEEL AISI 316	SAFETY	 PL	 SO	 DO
FLUID-10N		✓	✓	✓		✓	✓	
FLUID-10S		✓			✓		✓	
FLUID-20N		✓				✓	✓	
FLUID-30		✓				✓	✓	
MICRO	✓					✓	✓	
MINI	✓			✓		✓	✓	
MINIDO	✓			✓				✓
EU-75N		✓	✓	✓		✓	✓	
EU-75S	✓				✓		✓	
EU-DO75	✓			✓				✓
EUROFLUID		✓				✓	✓	
CRHL-12	✓		✓	✓		✓		
CRM-55	✓					✓	✓	





**FLUID-10N:**

NBR: -10°C ÷ 95°C

FKM: -20°C ÷ 205°C

**FLUID-10S - SAFETY:**

NBR: -10°C ÷ 95°C

Standard version: NBR

Stainless steel AISI 316 version:

FKM

**Working pressure****FLUID-10N:**

0-12 Bar (suggested)

35 Bar (max)

**FLUID-10S:**

0-7 Bar (suggested)



- Taper gas BSPT ISO 7

from R1/4" to R1/2"

- Parallel gas BSPP ISO 228

from G1/4" to G1/2"

**FLUID-10N:** Compressed air**FLUID-10N-LX:** Compressed air**FLUID-10N-X:** Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials**FLUID-10N-X-316:** Compressed air, water, chemicals, applications in highly corrosive environments and fluids suitable with construction materials**FLUID-10S:** Compressed air**REGULATION**

ISO 6150 B12

**NOMINAL DIAMETER**

5,5 mm

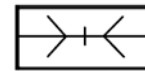
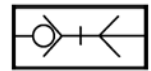
**FLOWRATE**

750 l/min (FLUID-10N)

840 l/min (FLUID-10S - SAFETY)

**CONFIGURATIONS**

FLUID-10N

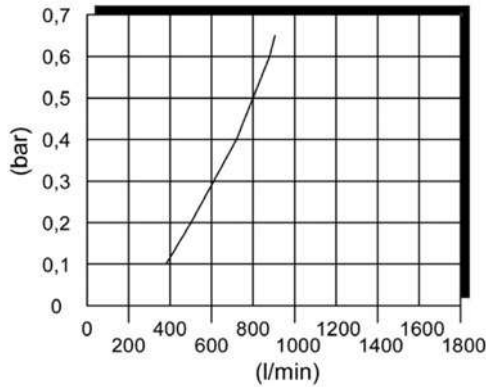
PL  
Free  
PassageFLUID-10N  
FLUID-10SSO  
Single  
ShutterProducts in compliance with  
EC Regulation 1907/2006Products in compliance with  
the directive EU 2015/863

COMPONENTS	FLUID-10N	FLUID-10N-LX	FLUID-10N-X	FLUID-10N-316X	FLUID-10S SAFETY
Body	Nickel-plated steel	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated steel
Slide	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated steel
Adapter	Nickel-plated brass	Nickel-plated brass	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated brass
Valve	Nickel-plated brass	Nickel-plated brass	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated brass
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 316	Stainless steel AISI 316	Stainless steel AISI 302
Ball	Chromed steel	Chromed steel	Stainless steel AISI 316	Stainless steel AISI 316	Chromed steel
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 316	Stainless steel AISI 316	Stainless steel AISI 302
Cartridge	-	-	-	-	Nickel-plated steel
Seal	NBR	NBR	NBR - FKM	NBR - FKM	NBR

CONNECTION	NE-10	NE-10-X	NE-10-316X
Body	Hardened nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316

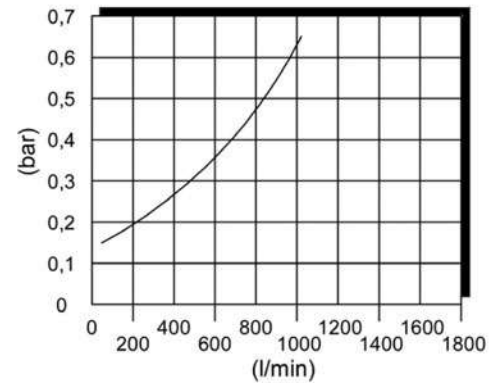
**FLOW CHART**  
FLUID-10N

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.



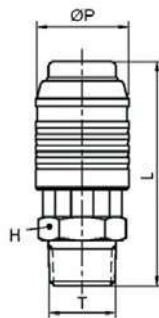
**FLOW CHART**  
FLUID-10S - SAFETY

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.



**FLUID-10N-M**

Male quick coupling BSPT thread



CODE	T	ØP	L	H
FLUID-10N-M1/4	R 1/4"	23,4	54,5	19
FLUID-10N-M1/4-PL	R 1/4"	23,4	54,5	19
FLUID-10N-M1/4-LX	R 1/4"	23,4	54,5	19
FLUID-10N-M1/4-LX-PL	R 1/4"	23,4	54,5	19
FLUID-10N-M1/4-X	R 1/4"	23,4	54,5	19
FLUID-10N-M1/4-X-PL	R 1/4"	23,4	54,5	19
FLUID-10N-M1/4-316X	R 1/4"	23,4	53,0	21
FLUID-10N-M1/4-316X-PL	R 1/4"	23,4	53,0	21
FLUID-10N-M3/8	R 3/8"	23,4	55,5	19
FLUID-10N-M3/8-PL	R 3/8"	23,4	55,5	19
FLUID-10N-M3/8-LX	R 3/8"	23,4	55,5	19
FLUID-10N-M3/8-LX-PL	R 3/8"	23,4	55,5	19
FLUID-10N-M3/8-X	R 3/8"	23,4	55,5	19
FLUID-10N-M3/8-X-PL	R 3/8"	23,4	55,5	19
FLUID-10N-M1/2	R 1/2"	23,4	60,0	22
FLUID-10N-M1/2-PL	R 1/2"	23,4	60,0	22
FLUID-10N-M1/2-LX	R 1/2"	23,4	60,0	22
FLUID-10N-M1/2-LX-PL	R 1/2"	23,4	60,0	22
FLUID-10N-M1/2-X	R 1/2"	23,4	60,0	22
FLUID-10N-M1/2-X-PL	R 1/2"	23,4	60,0	22

Male quick coupling BSPP thread

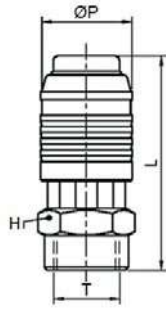
FLUID-10N-M1/4G	G 1/4"	23,4	53,0	21
FLUID-10N-M1/4G-PL	G 1/4"	23,4	53,0	21
FLUID-10N-M3/8G	G 3/8"	23,4	54,5	21
FLUID-10N-M3/8G-PL	G 3/8"	23,4	54,5	21
FLUID-10N-M1/2G	G 1/2"	23,4	57,5	24
FLUID-10N-M1/2G-PL	G 1/2"	23,4	57,5	24

-PL: Free Passage



**FLUID-10N-H**

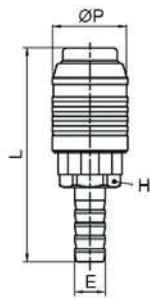
Female quick coupling BSPP thread



CODE	T	ØP	L	H
FLUID-10N-H1/4	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-PL	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-LX	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-LX-PL	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-X	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-X-PL	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-316X	G 1/4"	23,4	52,5	19
FLUID-10N-H1/4-316X-PL	G 1/4"	23,4	52,5	19
FLUID-10N-H3/8	G 3/8"	23,4	54,0	22
FLUID-10N-H3/8-PL	G 3/8"	23,4	54,0	22
FLUID-10N-H3/8-LX	G 3/8"	23,4	54,0	22
FLUID-10N-H3/8-LX-PL	G 3/8"	23,4	54,0	22
FLUID-10N-H3/8-X	G 3/8"	23,4	54,0	22
FLUID-10N-H3/8-X-PL	G 3/8"	23,4	54,0	22
FLUID-10N-H1/2	G 1/2"	23,4	58,2	25
FLUID-10N-H1/2-PL	G 1/2"	23,4	58,2	25
FLUID-10N-H1/2-LX	G 1/2"	23,4	58,2	25
FLUID-10N-H1/2-LX-PL	G 1/2"	23,4	58,2	25
FLUID-10N-H1/2-X	G 1/2"	23,4	58,2	24
FLUID-10N-H1/2-X-PL	G 1/2"	23,4	58,2	24

**-PL: Free Passage****FLUID-10N-E**

Quick coupling with barb connector

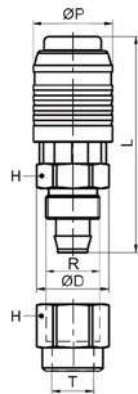


CODE	E	ØP	L	H
FLUID-10N-E6	7,2	23,4	62,0	19
FLUID-10N-E6-PL	7,2	23,4	62,0	19
FLUID-10N-E8	9,2	23,4	62,0	19
FLUID-10N-E8-PL	9,2	23,4	62,0	19
FLUID-10N-E8-LX	9,2	23,4	62,0	19
FLUID-10N-E8-LX-PL	9,2	23,4	62,0	19
FLUID-10N-E8-X	9,2	23,4	62,0	19
FLUID-10N-E8-X-PL	9,2	23,4	62,0	19
FLUID-10N-E8-316X	9,2	23,4	62,0	19
FLUID-10N-E8-316X-PL	9,2	23,4	62,0	19
FLUID-10N-E10	11,2	23,4	66,0	19
FLUID-10N-E10-PL	11,2	23,4	66,0	19
FLUID-10N-E10-LX	11,2	23,4	66,0	19
FLUID-10N-E10-LX-PL	11,2	23,4	66,0	19
FLUID-10N-E10-X	11,2	23,4	66,0	19
FLUID-10N-E10-X-PL	11,2	23,4	66,0	19
FLUID-10N-E12	13,2	23,4	71,0	19
FLUID-10N-E12-PL	13,2	23,4	71,0	19
FLUID-10N-E12-X	13,2	23,4	71,0	19
FLUID-10N-E12-X-PL	13,2	23,4	71,0	19

**-PL: Free Passage**

**FLUID-10N-PM**

Quick coupling with push-on connector



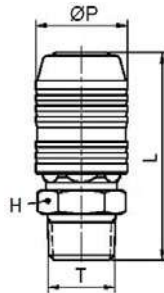
CODE	TUBE Ø	R	ØP	L	H	H1
FLUID-10N-PM08	8x12	M16x1	23,4	64,7	19	19
FLUID-10N-PM08-PL	8x12	M16x1	23,4	64,7	19	19
FLUID-10N-PM08-X	8x12	M16x1	23,4	64,7	19	19
FLUID-10N-PM08-X-PL	8x12	M16x1	23,4	64,7	19	19
FLUID-10N-PM10	10x15	M20x1	23,4	69,5	22	22
FLUID-10N-PM10-PL	10x15	M20x1	23,4	69,5	22	22

Recommended for use with PU-PVC tube on page 751

-PL: Free Passage

**FLUID-10S-M**

Safety male quick coupling BSPT thread



CODE	T	ØP	L	H
FLUID-10S-M1/4	R 1/4"	26,6	55,7	19
FLUID-10S-M3/8	R 3/8"	26,6	56,7	19
FLUID-10S-M1/2	R 1/2"	26,6	61,2	22

Safety male quick coupling BSPP thread

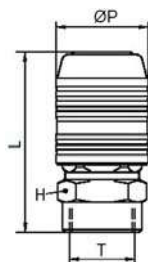
CODE	T	ØP	L	H
FLUID-10S-M1/4G	G 1/4"	26,6	54,2	21
FLUID-10S-M3/8G	G 3/8"	26,6	55,7	21
FLUID-10S-M1/2G	G 1/2"	26,6	54,2	24

**FLUID-10S-M**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**FLUID-10S-H**

Safety female quick coupling BSPP thread



CODE	T	ØP	L	H
FLUID-10S-H1/4	G 1/4"	26,6	53,7	19
FLUID-10S-H3/8	G 3/8"	26,6	55,2	22
FLUID-10S-H1/2	G 1/2"	26,6	59,4	25

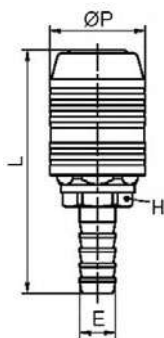
**FLUID-10S-H**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.



**FLUID-10S-E**

Safety quick coupling with barb connector



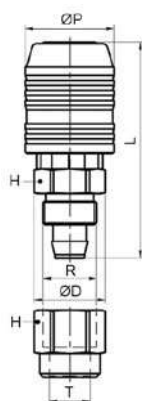
CODE	E	ØP	L	H
FLUID-10S-E6	7,2	26,6	63,2	19
FLUID-10S-E8	9,2	26,6	63,2	19
FLUID-10S-E10	11,2	26,6	67,2	19
FLUID-10S-E12	13,2	26,6	72,2	19
FLUID-10S-E13	13,8	26,6	72,2	19

**FLUID-10S-E**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**FLUID-10S-PM**

Safety quick coupling with push-on connector



CODE	TUBE Ø	R	ØP	L	H	H1
FLUID-10S-PM08	8x12	M16x1	26,6	64,7	19	19
FLUID-10S-PM10	10x15	M20x1	26,6	69,5	22	22

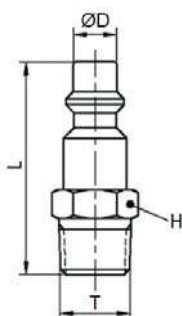
Recommended for use with PU-PVC tube on page 751

**FLUID-10S-PM**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**NE-10M**

Male connection BSPT thread

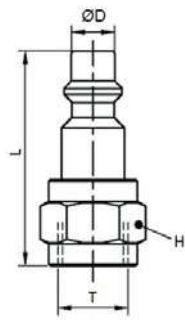


CODE	T	ØD	L	H
NE-10M	R 1/4"	8	40,0	14
NE-10M-X	R 1/4"	8	40,0	14
NE-10M-316X	R 1/4"	8	40,0	14
NE-10M-3/8	R 3/8"	8	42,5	17
NE-10M-3/8-X	R 3/8"	8	42,5	17
NE-10M-1/2	R 1/2"	8	46,0	22
NE-10M-1/2-X	R 1/2"	8	46,0	22



**NE-10H**

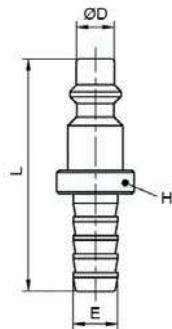
Female connection BSPP thread



CODE	T	ØD	L	H
NE-10H	G 1/4"	8	40,0	17
NE-10H-X	G 1/4"	8	40,0	17
NE-10H-316X	G 1/4"	8	40,0	17
NE-10H-3/8	G 3/8"	8	41,5	22
NE-10H-1/2	G 1/2"	8	44,0	25

**NE-10E**

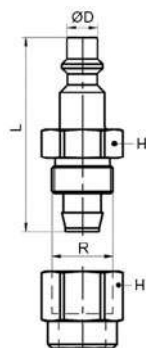
Connection with barb connector



CODE	E	ØD	L	H
NE-10E-6	7,2	8	46,0	14
NE-10E-8	9,2	8	47,0	14
NE-10E-X	9,2	8	47,0	14
NE-10E-10	11,2	8	52,0	14
NE-10E-10-X	11,2	8	52,0	14
NE-10E-10-316X	11,2	8	52,0	14
NE-10E-12	13,2	8	54,0	14

**NE-10PM**

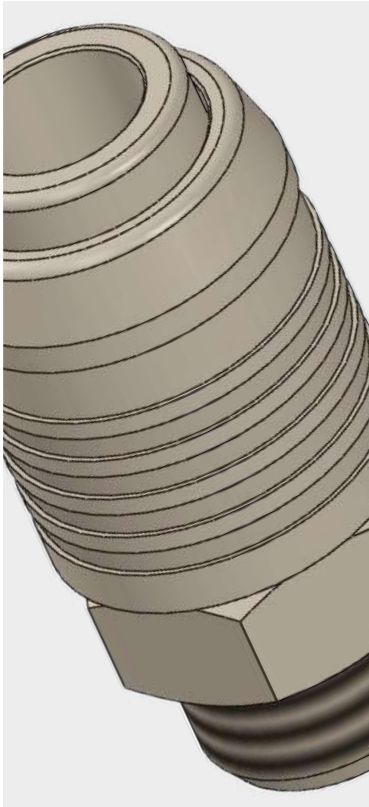
Connection with push-on connector



CODE	TUBE Ø	R	ØD	L	H
NE-10PM-08	8x12	M16x1	8	50,7	19
NE-10PM-08-X	8x12	M16x1	8	50,7	19
NE-10PM-10	10x15	M20x1	8	55,5	22

Recommended for use with PU-PVC tube on page 751





-10°C ÷ 95°C



Working pressure:  
0-12 Bar (suggested)  
35 Bar (max)



Compressed air



- Taper gas BSPT ISO 7  
from R1/4" to R1/2"  
- Parallel gas BSPP ISO 228  
G3/8" and G1/2"

**REGULATION**

ISO 6150 B15

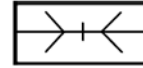
**NOMINAL DIAMETER**

8 mm

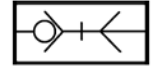
**FLOWRATE**

1500 l/min

**CONFIGURATIONS**



PL  
Free  
Passage



SO  
Single  
Shutter



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

COMPONENTS	FLUID-20N
Body	Nickel-plated steel
Slide	Nickel-plated steel
Adapter	Nickel-plated brass
Valve	Nickel-plated brass
Spring	Stainless steel AISI 302
Ball	Chromed steel
Retaining ring	Stainless steel AISI 302
Seal	NBR

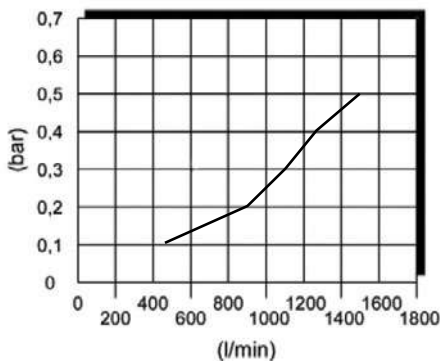
  

CONNECTION	NE-20
Body	Nickel-plated steel

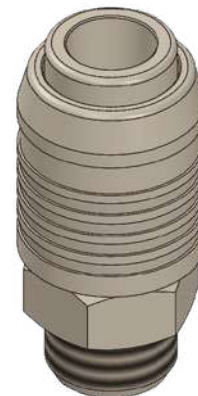


**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

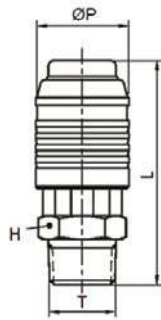


**VIEW - QUICK COUPLING FLUID-20N-M**



**FLUID-20N-M**

Male quick coupling BSPT thread

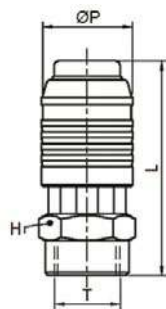


CODE	T	ØP	L	H
FLUID-20N-M3/8	R 3/8"	27,6	59,5	21
FLUID-20N-M3/8-PL	R 3/8"	27,6	59,5	21
FLUID-20N-M1/2	R 1/2"	27,6	63,0	22
FLUID-20N-M1/2-PL	R 1/2"	27,6	63,0	22

-PL: Free Passage

**FLUID-20N-H**

Female quick coupling BSPP thread

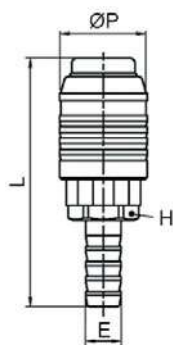


CODE	T	ØP	L	H
FLUID-20N-H3/8	G 3/8"	27,6	59,0	22
FLUID-20N-H3/8-PL	G 3/8"	27,6	59,0	22
FLUID-20N-H1/2	G 1/2"	27,6	59,0	25
FLUID-20N-H1/2-PL	G 1/2"	27,6	59,0	25

-PL: Free Passage

**FLUID-20N-E**

Quick coupling with barb connector



CODE	E	ØP	L	H
FLUID-20N-E10	11,2	27,6	73,0	21
FLUID-20N-E10-PL	11,2	27,6	73,0	21
FLUID-20N-E12	13,2	27,6	75,0	21
FLUID-20N-E12-PL	13,2	27,6	75,0	21

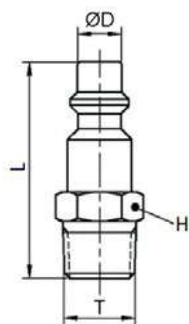
-PL: Free Passage





**NE-20M**

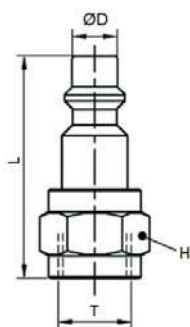
Male connection BSPT thread



CODE	T	ØD	L	H
NE-20M-1/4	R 1/4"	10,8	44,1	17
NE-20M	R 3/8"	10,8	45,1	17
NE-20M-1/2	R 1/2"	10,8	48,1	22

**NE-20H**

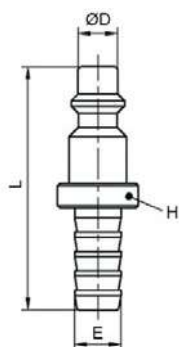
Female connection BSPP thread



CODE	T	ØD	L	H
NE-20H	G 3/8"	10,8	42,6	22
NE-20H-1/2	G 1/2"	10,8	47,6	27

**NE-20E**

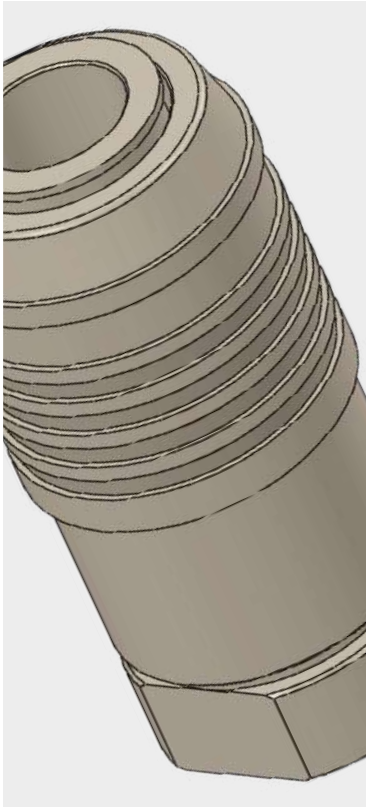
Connection with barb connector



CODE	E	ØD	L	H
NE-20E	11,2	10,8	54,1	20
NE-20E-13	13,8	10,8	59,1	20







-10°C ÷ 95°C



Working pressure:  
0-12 Bar (suggested)  
35 Bar (max)



Compressed air



- Taper gas BSPT ISO 7  
R1/2"  
- Parallel gas BSPP ISO 228  
G3/8" and G1/2"

**REGULATION**

ISO 6150 B17

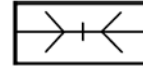
**NOMINAL DIAMETER**

12 mm

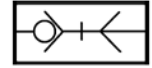
**FLOWRATE**

2006 l/min

**CONFIGURATIONS**



PL  
Free  
Passage



SO  
Single  
Shutter



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

COMPONENTS	FLUID-30
Body	Nickel-plated steel
Slide	Nickel-plated steel
Adapter	Nickel-plated brass
Valve	Stainless steel AISI 303
Spring	Stainless steel AISI 302
Retaining ring	Stainless steel AISI 302
Washer	Stainless steel AISI 304
Pins	Stainless steel AISI 303
Seal	NBR

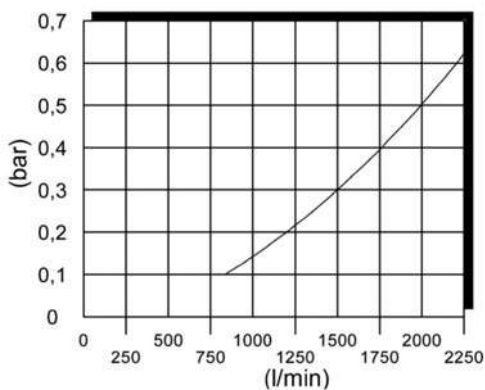
  

CONNECTION	NE-30
Body	Hardened nickel-plated steel



**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

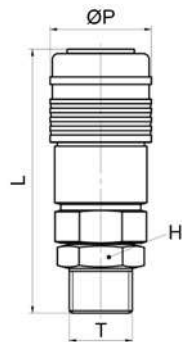


**VIEW - QUICK COUPLING FLUID-30H**



**FLUID-30M**

Male quick coupling BSPP thread

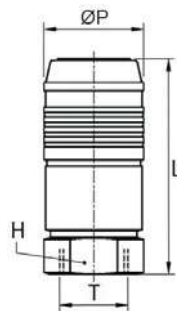


CODE	T	ØP	L	H
FLUID-30M	G 1/2"	33,6	88,0	27
FLUID-30M-PL	G 1/2"	33,6	88,0	27

-PL: Free Passage

**FLUID-30H**

Female quick coupling BSPP thread

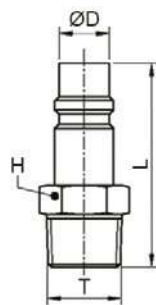


CODE	T	ØP	L	H
FLUID-30	G 1/2"	33,6	65,5	27
FLUID-30-PL	G 1/2"	33,6	65,5	27

-PL: Free Passage

**NE-30M**

Male connection BSPT thread

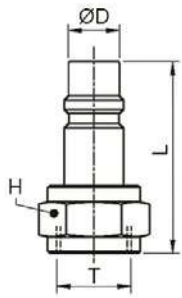


CODE	T	ØD	L	H
NE-30M	R 1/2"	14,3	58,5	22



**NE-30H**

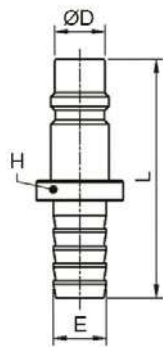
Female connection BSPP thread



CODE	T	ØD	L	H
NE-30H-3/8	G 3/8"	14,3	54,0	22
NE-30H	G 1/2"	14,3	54,0	27

**NE-30E**

Connection with barb connector



CODE	E	ØD	L	H
NE-30E	15,2	14,3	69,0	25







NBR: -10°C ÷ 95°C  
FKM: -20°C ÷ 205°C  
Standard version: NBR



Working pressure:  
0-12 Bar (suggested)  
20 Bar (max)



Compressed air and fluids  
suitable with construction  
materials



- Taper gas BSPT ISO 7 R1/8"
- Parallel gas BSPP ISO 228 G1/8"
- Metric ISO 262 M5

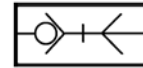
**NOMINAL DIAMETER**

2,5 mm

**FLOWRATE**

135 l/min

**CONFIGURATIONS**



SO  
Single  
Shutter



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

COMPONENTS	MICRO
Body	Nickel-plated brass
Slide	Nickel-plated brass
Adapter	Nickel-plated brass
Valve	Nickel-plated brass
Spring	Stainless steel AISI 302
Ball	Stainless steel AISI 420
Retaining ring	Stainless steel AISI 302
Seal	NBR - FKM

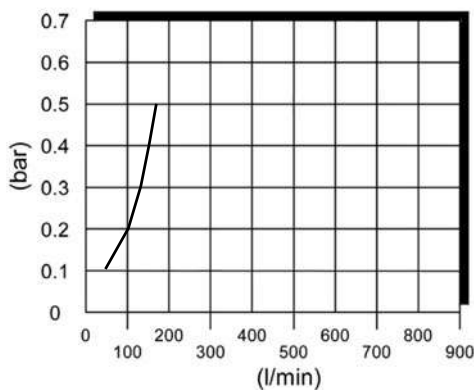
  

CONNECTION	AMC
Body	Nickel-plated brass



**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

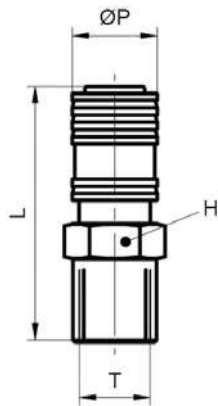


**VIEW - QUICK COUPLING MICRO-M**



**MICRO-H**

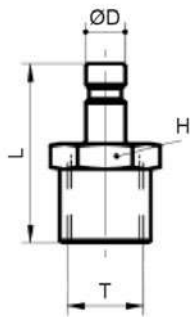
Female micro quick coupling BSPP & metric thread



CODE	T	ØP	L	H
MICRO-HM5-L	M5x0,8	11,7	32,9	11
MICRO-H18-L	G 1/8"	11,7	35,4	12

**AMCH**

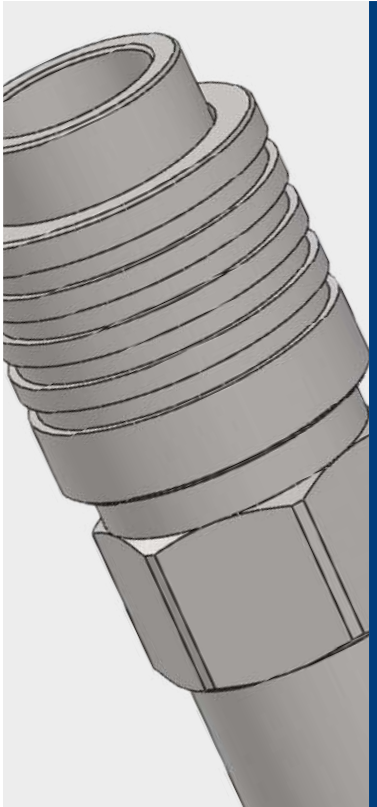
Female micro connection BSPP thread



CODE	T	ØD	L	H
AMCH18-L	G 1/8"	5	22,5	12







NBR: -10°C ÷ 95°C  
FKM: -20°C ÷ 205°C  
Standard version (MINI-L): NBR



Working pressure:  
0-12 Bar (suggested)  
35 Bar (max)



MINI-L: Compressed air, water, gas, non-aggressive mineral or synthetic oils, applications in non-corrosive environments and fluids suitable with construction materials  
MINI-316: Compressed air, water, grease, oils, mild acids, applications in highly oxidising or corrosive environments and fluids suitable with construction materials



Parallel gas BSPP ISO 228 from G1/8" to G3/8"

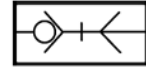
**NOMINAL DIAMETER**

5,5 mm

**FLOWRATE**

500 l/min

**CONFIGURATIONS**



SO  
Single  
Shutter



Food contact materials  
EC 1935/2004  
MINI-316 &  
AMN-316 Series



D.M. 174/2004  
MINI-316 &  
AMN-316 Series





Products in compliance with  
EC Regulation 1907/2006





Products in compliance with  
the directive EU 2015/863



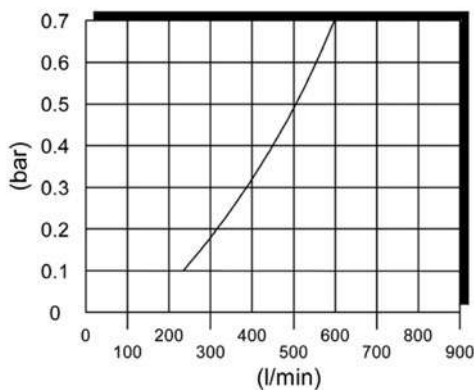
COMPONENTS	MINI-L	MINI-316  
Body	Nickel-plated brass	Stainless steel AISI 316
Slide	Nickel-plated steel	Stainless steel AISI 316
Adapter	Nickel-plated brass	Stainless steel AISI 316
Valve	Nickel-plated brass	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Ball	Stainless steel AISI 316	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 316
Wrench	Nickel-plated brass	Stainless steel AISI 316
Seal	NBR - FKM	FKM

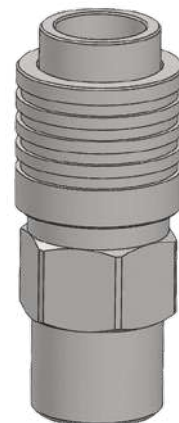
CONNECTION	AMN-L	AMN-316  
Body	Nickel-plated brass	Stainless steel AISI 316

**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

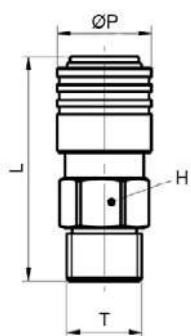


**VIEW - QUICK COUPLING MINI-H**



**MINI-M**

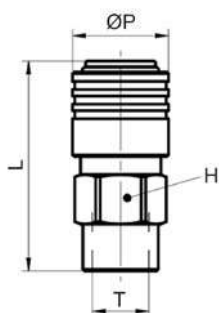
Male mini quick coupling BSPP thread



CODE	T	ØP	L	H
MINI-M1-L	G 1/8"	16,5	36,2	14
MINI-M1-316V	G 1/8"	16,5	36,2	14
MINI-M1-L	G 1/4"	16,5	38,2	14
MINI-M3-16V	G 1/4"	16,5	38,2	14
MINI-M3-316V	G 3/8"	16,5	39,2	19

**MINI-H**

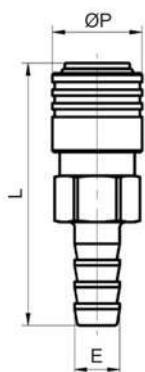
Female mini quick coupling BSPP thread



CODE	T	ØP	L	H
MINI-H1-L	G 1/8"	16,5	37,2	14
MINI-H1-316V	G 1/8"	16,5	37,2	14
MINI-H1-L	G 1/4"	16,5	39,2	17
MINI-H3-16V	G 1/4"	16,5	39,2	17

**MINI-E**

Mini quick coupling with barb connector

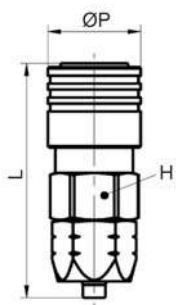


CODE	E	ØP	L	H
MINI-E6-L	6,3	16,5	48,2	14
MINI-E6-316V	6,3	16,5	48,2	14
MINI-E8-L	8,3	16,5	48,2	14
MINI-E8-316V	8,3	16,5	48,2	14



**MINI-RR**

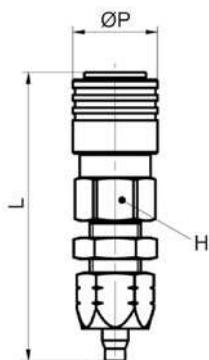
Mini quick coupling with push-on connector



CODE	TUBE Ø	ØP	L	H
MINI-RR6-L	6x4	16,5	43,2	14
MINI-RR8-L	8x6	16,5	43,2	14

**MINI-MM**

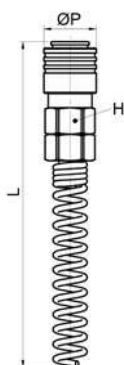
Bulkhead mini quick coupling with push-on connector



CODE	TUBE Ø	ØP	L	H
MINI-MM6-L	6x4	16,5	56,7	14
MINI-MM8-L	8x6	16,5	56,7	14

**MINI-RRR**

Mini quick coupling with push-on connector and spring

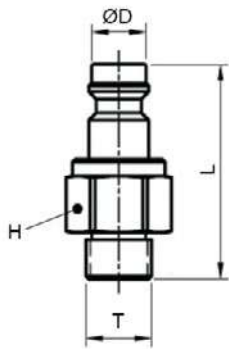


CODE	TUBE Ø	ØP	L	H
MINI-RR6R-L	6x4	16,5	124,7	14
MINI-RR8R-L	8x6	16,5	123,2	14



**AMN-M**

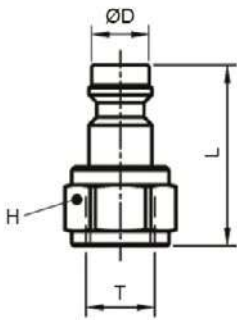
Male mini connection BSPP thread



CODE	T	ØD	L	H
AMN-M1-L	G 1/8"	8,1	32,1	14
AMN-M1-316	G 1/8"	8,1	32,1	14
AMN-M-L	G 1/4"	8,1	34,1	14
AMN-M-316	G 1/4"	8,1	34,1	14

**AMN-H**

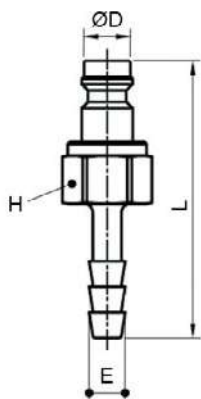
Female mini connection BSPP thread



CODE	T	ØD	L	H
AMN-H1-L	G 1/8"	8,1	25,1	14
AMN-H1-316	G 1/8"	8,1	25,1	14
AMN-H-L	G 1/4"	8,1	29,1	17
AMN-H-316	G 1/4"	8,1	29,1	17

**AMN-E**

Mini connection with barb connector

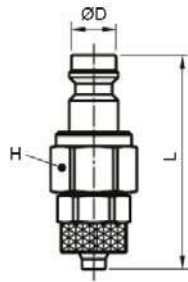


CODE	E	ØD	L	H
AMN-E6-L	6,3	8,1	37,1	14
AMN-E8-L	8,3	8,1	37,1	14



**AMN-RR**

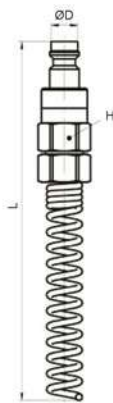
Mini connection with push-on connector



CODE	TUBE Ø	ØD	L	H
AMN-RR6-L	6x4	8,1	39,1	12
AMN-RR6-316	6x4	8,1	39,1	12
AMN-RR8-L	8x6	8,1	39,1	14
AMN-RR8-316	8x6	8,1	39,1	14

**AMN-RRR**

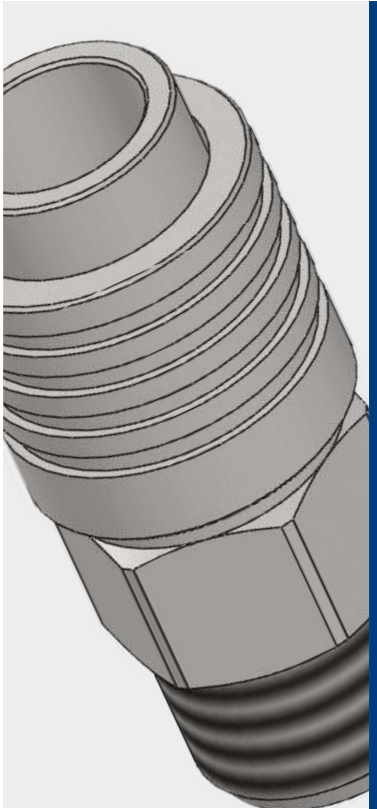
Mini connection with push-on connector and spring



CODE	TUBE Ø	ØD	L	H
AMN-RR6R-L	6x4	8,1	120,6	12
AMN-RR8R-L	8x6	8,1	119,1	14







NBR:  $-10^{\circ}\text{C} \div 95^{\circ}\text{C}$   
 FKM:  $-15^{\circ}\text{C} \div 200^{\circ}\text{C}$   
 Standard version (MINIDO-L): NBR



Working pressure:  
 0-12 Bar (suggested)  
 35 Bar (max)



**MINIDO-L:** Compressed air, water, gas, non-aggressive mineral or synthetic oils, applications in non-corrosive environments and fluids suitable with construction materials  
**MINIDO-316:** Compressed air, water, grease, oils, mild acids, applications in highly oxidising or corrosive environments and fluids suitable with construction materials



Parallel gas BSPP ISO 228  
 from G1/8" to G3/8"

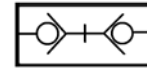
## NOMINAL DIAMETER

4,2 mm

## FLOWRATE

233 l/min

## CONFIGURATIONS



DO  
 Double  
 Shutter



Food contact materials  
 EC 1935/2004  
 MINIDO-316 &  
 AMNDO-316 Series



D.M. 174/2004  
 MINIDO-316 &  
 AMNDO-316 Series



Products in compliance with  
 EC Regulation 1907/2006



Products in compliance with  
 the directive EU 2015/863

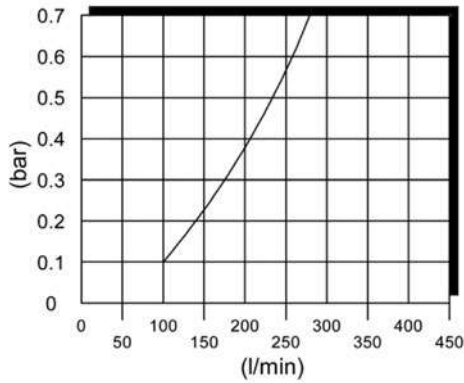
COMPONENTS	MINIDO-L	MINIDO-316  
Body	Nickel-plated brass	Stainless steel AISI 316
Slide	Nickel-plated steel	Stainless steel AISI 316
Adapter	Nickel-plated brass	Stainless steel AISI 316
Valve	Nickel-plated brass	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Ball	Stainless steel AISI 316	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 316
Seal	NBR - FKM	FKM

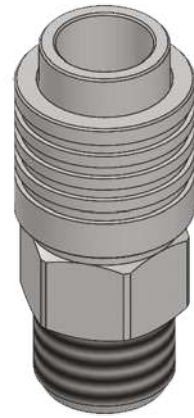
CONNECTION	AMNDO-L	AMNDO-316  
Body	Nickel-plated brass	Stainless steel AISI 316
Adapter	Nickel-plated brass	Stainless steel AISI 316
Valve	Nickel-plated brass	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Seal	NBR - FKM	FKM

**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

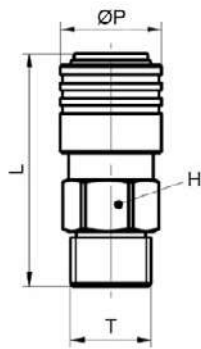


**VIEW - QUICK COUPLING MINIDO-M**



**MINIDO-M**

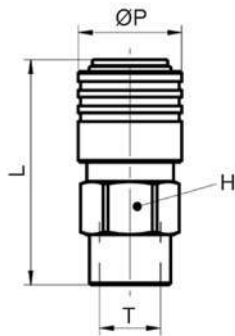
Male mini quick coupling BSPP thread



CODE	T	ØP	L	H
MINIDO-M1-L	G 1/8"	16,5	36,2	14
MINIDO-M1-316V	G 1/8"	16,5	36,2	14
MINIDO-M-L	G 1/4"	16,5	38,2	14
MINIDO-M-316V	G 1/4"	16,5	38,2	14
MINIDO-M3-316V	G 3/8"	16,5	39,2	19

**MINIDO-H**

Female mini quick coupling BSPP thread



CODE	T	ØP	L	H
MINIDO-H1-L	G 1/8"	16,5	37,2	14
MINIDO-H1-316V	G 1/8"	16,5	37,2	14
MINIDO-H-L	G 1/4"	16,5	39,2	17
MINIDO-H-316V	G 1/4"	16,5	39,2	17





**MINIDO-E**

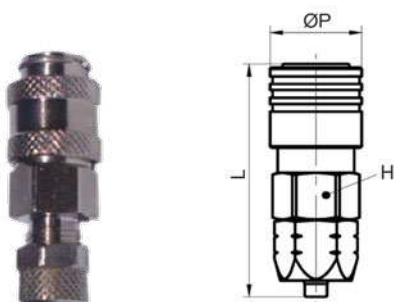
Mini quick coupling with barb connector



CODE	E	ØP	L	H
MINIDO-E6-L	6,3	16,5	48,2	14
MINIDO-E6-316V	6,3	16,5	48,2	14
MINIDO-E8-L	8,3	16,5	48,2	14
MINIDO-E8-316V	8,3	16,5	48,2	14

**MINIDO-RR**

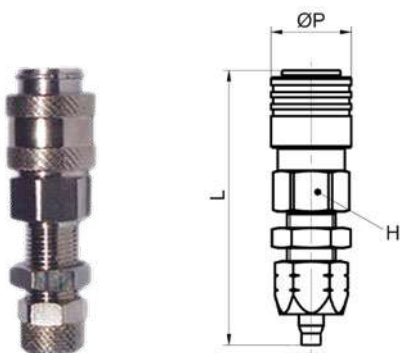
Mini quick coupling with push-on connector



CODE	TUBE Ø	ØP	L	H
MINIDO-RR6-L	6x4	16,5	43,2	14
MINIDO-RR8-L	8x6	16,5	43,2	14

**MINIDO-MM**

Bulkhead mini quick coupling with push-on connector

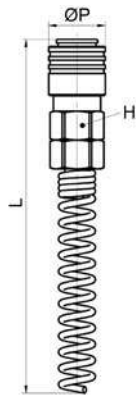


CODE	TUBE Ø	ØP	L	H
MINIDO-MM6-L	6x4	16,5	56,7	14
MINIDO-MM6-316V	6x4	16,5	56,7	14
MINIDO-MM8-L	8x6	16,5	56,7	14
MINIDO-MM8-316V	8x6	16,5	56,7	14



**MINIDO-RRR**

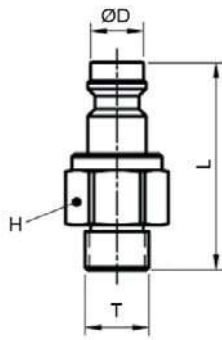
Mini quick coupling with push-on connector and spring



CODE	TUBE Ø	ØP	L	H
MINIDO-RR6R-L	6x4	16,5	124,7	14
MINIDO-RR8R-L	8x6	16,5	123,2	14

**AMNDO-M**

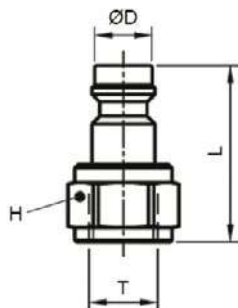
Male mini connection with shutter, BSPP thread



CODE	T	ØD	L	H
AMNDO-M1-L	G 1/8"	8,1	40,1	14
AMNDO-M1-316V	G 1/8"	8,1	40,1	14
AMNDO-M1	G 1/4"	8,1	42,1	14
AMNDO-M-316V	G 1/4"	8,1	42,1	14
AMNDO-M3-316V	G 3/8"	8,1	43,1	19

**AMNDO-H**

Female mini connection with shutter, BSPP thread

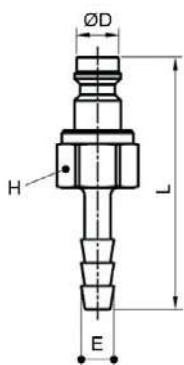


CODE	T	ØD	L	H
AMNDO-H1-L	G 1/8"	8,1	41,1	14
AMNDO-H1-316V	G 1/8"	8,1	41,1	14
AMNDO-H1	G 1/4"	8,1	43,1	17
AMNDO-H-316V	G 1/4"	8,1	43,1	17



**AMNDO-E**

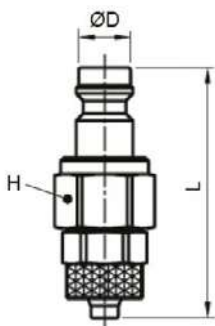
Mini connection with shutter and barb connector



CODE	E	ØD	L	H
AMNDO-E6-L	6,3	8,1	52,1	14
AMNDO-E6-316V	6,3	8,1	52,1	14
AMNDO-E8-L	8,3	8,1	52,1	14
AMNDO-E8-316V	8,3	8,1	52,1	14

**AMNDO-RR**

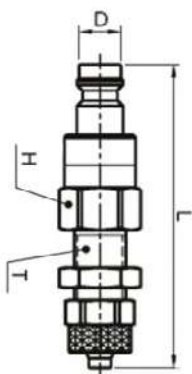
Mini connection with shutter and push-on connector



CODE	TUBE Ø	ØD	L	H
AMNDO-RR6-L	8x6	8,1	47,1	14
AMNDO-RR8-L	8x6	8,1	47,1	14

**AMNDO-MM**

Bulkhead mini connection with shutter and push-on connector

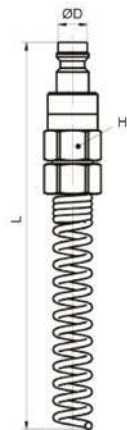


CODE	TUBE Ø	ØD	L	H
AMNDO-MM6-L	6x4	8,1	60,6	14
AMNDO-MM6-316V	6x4	8,1	60,6	14
AMNDO-MM8-L	8x6	8,1	60,6	14



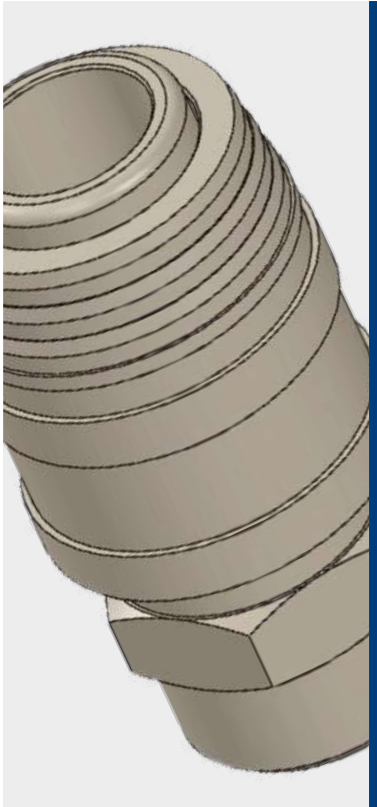
**AMNDO-RRR**

Mini connection with shutter, push-on connector and spring



CODE	TUBE Ø	ØD	L	H
AMNDO-RR6R-L	6x4	8,1	128,6	14
AMNDO-RR8R-L	8x6	8,1	127,1	14







**EU-75N:**  
 NBR: -10°C ÷ 95°C  
 FKM: -20°C ÷ 205°C

 **EU-75S - SAFETY:**  
 NBR: -10°C ÷ 95°C  
 Standard version: NBR  
 Stainless steel AISI 316 version:  
 FKM

**Working pressure**  
**EU-75N:**  
 0-12 Bar (suggested)  
 35 Bar (max)

**FLUID-10S:**  
 0-7 Bar (suggested)

 - Taper gas BSPT ISO 7  
 from R1/4" to R1/2"

 - Parallel gas BSPP ISO 228  
 from G1/4" to G1/2"

**PROFILE**

Germany

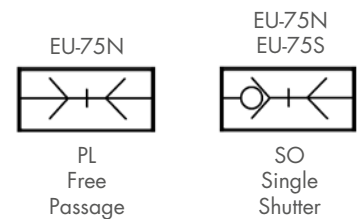
**NOMINAL DIAMETER**

7,6 mm

**FLOWRATE**

1125 l/min (EU-75N)  
 542 l/min (EU-75S - SAFETY)

**CONFIGURATIONS**



- EU-75N:** Compressed air
- EU-75N-X:** Compressed air, water, grease, oils, mild acids, applications in oxidising or corrosive environments and fluids suitable with construction materials
- EU-75N-X-316:** Compressed air, water, grease, oils, mild acids, applications in highly oxidising or corrosive environments and fluids suitable with construction materials
- EU-75S:** Compressed air



Food contact materials  
 EC 1935/2004  
 EU-75N-316 &  
 AEU-75-316 Series



D.M. 174/2004  
 EU-75N-316 &  
 AEU-75-316 Series



Products in compliance with  
 EC Regulation 1907/2006



Products in compliance with  
 the directive EU 2015/863

COMPONENTS	EU-75N	EU-75N-X	EU-75N-316 	EU-75S - SAFETY
Body	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated steel
Slide	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated steel
Adapter	Nickel-plated brass	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated brass
Valve	Nickel-plated brass	Stainless steel AISI 303	Stainless steel AISI 316	Nickel-plated brass
Spring	Stainless steel AISI 302	Stainless steel AISI 316	Stainless steel AISI 316	Stainless steel AISI 302
Ball	Chromed steel	Stainless steel AISI 316	Stainless steel AISI 316	Chromed steel
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 316	Stainless steel AISI 316	Stainless steel AISI 302
Cartridge	-	-	-	Nickel-plated steel
Seal	NBR - FKM	NBR - FKM	FKM	NBR

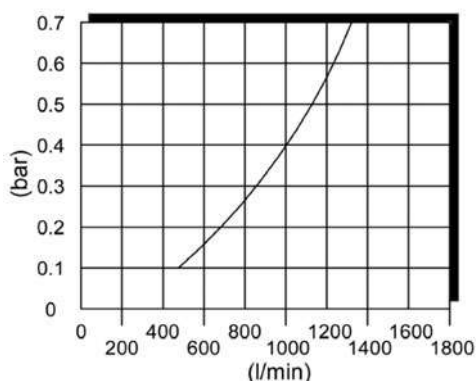
CONNECTION	AEU-75	AEU-75-X	AEU-75-316 
Body	Hardened nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316



**FLOW CHART**

**EU-75N**

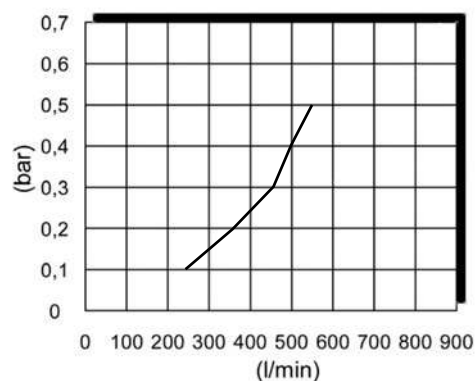
Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.



**FLOW CHART**

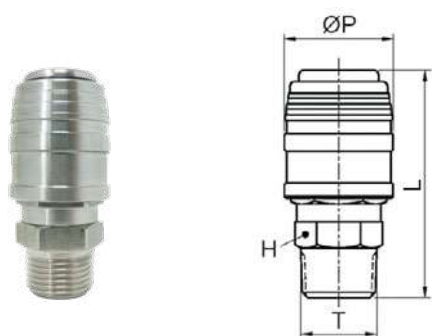
**EU-75S - SAFETY**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.



**EU-75N-M**

Male quick coupling BSPT thread



CODE	T	ØP	L	H
EU-75N-M1/4	R 1/4"	24,4	51,7	19
EU-75N-M1/4-PL	R 1/4"	24,4	51,7	19
EU-75N-M1/4-X	R 1/4"	24,4	51,7	19
EU-75N-M1/4-X-PL	R 1/4"	24,4	51,7	19
EU-75N-M1/4-316V	R 1/4"	24,4	51,7	19
EU-75N-M1/4-316V-PL	R 1/4"	24,4	51,7	19
EU-75N-M3/8	R 3/8"	24,4	52,7	19
EU-75N-M3/8-PL	R 3/8"	24,4	52,7	19
EU-75N-M3/8-X	R 3/8"	24,4	52,7	19
EU-75N-M3/8-X-PL	R 3/8"	24,4	52,7	19
EU-75N-M3/8-316V	R 3/8"	24,4	52,7	19
EU-75N-M3/8-316V-PL	R 3/8"	24,4	52,7	19
EU-75N-M1/2	R 1/2"	24,4	57,2	22
EU-75N-M1/2-PL	R 1/2"	24,4	57,2	22
EU-75N-M1/2-X	R 1/2"	24,4	57,2	22
EU-75N-M1/2-X-PL	R 1/2"	24,4	57,2	22
EU-75N-M1/2-316V	R 1/2"	24,4	57,2	22
EU-75N-M1/2-316V-PL	R 1/2"	24,4	57,2	22

Male quick coupling BSPP thread

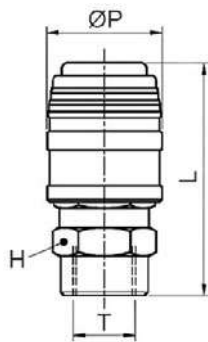
EU-75N-M1/4G	G 1/4"	24,4	50,2	21
EU-75N-M1/4G-PL	G 1/4"	24,4	50,2	21
EU-75N-M3/8G	G 3/8"	24,4	51,7	21
EU-75N-M3/8G-PL	G 3/8"	24,4	51,7	21
EU-75N-M1/2G	G 1/2"	24,4	54,7	24
EU-75N-M1/2G-PL	G 1/2"	24,4	54,7	24

-PL: Free Passage



**EU-75N-H**

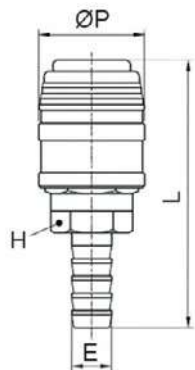
## Female quick coupling BSPP thread



CODE	T	ØP	L	H
EU-75N-H1/4	G 1/4"	24,4	49,7	19
EU-75N-H1/4-PL	G 1/4"	24,4	49,7	19
EU-75N-H1/4-X	G 1/4"	24,4	49,7	19
EU-75N-H1/4-X-PL	G 1/4"	24,4	49,7	19
EU-75N-H1/4-316V	G 1/4"	24,4	49,7	19
EU-75N-H1/4-316V-PL	G 1/4"	24,4	49,7	19
EU-75N-H3/8	G 3/8"	24,4	51,2	22
EU-75N-H3/8-PL	G 3/8"	24,4	51,2	22
EU-75N-H3/8-X	G 3/8"	24,4	51,2	22
EU-75N-H3/8-X-PL	G 3/8"	24,4	51,2	22
EU-75N-H3/8-316V	G 3/8"	24,4	51,2	22
EU-75N-H3/8-316V-PL	G 3/8"	24,4	51,2	22
EU-75N-H1/2	G 1/2"	24,4	55,4	25
EU-75N-H1/2-PL	G 1/2"	24,4	55,4	25
EU-75N-H1/2-X	G 1/2"	24,4	55,4	25
EU-75N-H1/2-X-PL	G 1/2"	24,4	55,4	25
EU-75N-H1/2-316V	G 1/2"	24,4	55,4	25
EU-75N-H1/2-316V-PL	G 1/2"	24,4	55,4	25

**-PL: Free Passage****EU-75N-E**

## Quick coupling with barb connector

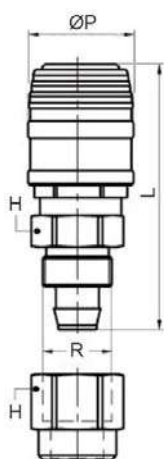


CODE	E	ØP	L	H
EU-75N-E6	7,2	24,4	59,2	19
EU-75N-E6-PL	7,2	24,4	59,2	19
EU-75N-E8	9,2	24,4	59,2	19
EU-75N-E8-PL	9,2	24,4	59,2	19
EU-75N-E8-X	9,2	24,4	59,2	19
EU-75N-E8-X-PL	9,2	24,4	59,2	19
EU-75N-E8-316V	9,2	24,4	59,2	19
EU-75N-E8-316V-PL	9,2	24,4	59,2	19
EU-75N-E10	11,2	24,4	63,2	19
EU-75N-E10-PL	11,2	24,4	63,2	19
EU-75N-E10-X	11,2	24,4	63,2	19
EU-75N-E10-X-PL	11,2	24,4	63,2	19
EU-75N-E10-316V	11,2	24,4	63,2	19
EU-75N-E10-316V-PL	11,2	24,4	63,2	19
EU-75N-E12	13,2	24,4	68,2	19
EU-75N-E12-PL	13,2	24,4	68,2	19
EU-75N-E12-X	13,2	24,4	68,2	19
EU-75N-E12-X-PL	13,2	24,4	68,2	19
EU-75N-E13	13,8	24,4	68,2	19
EU-75N-E13-PL	13,8	24,4	68,2	19

**-PL: Free Passage**

**EU-75N-PM**

Quick coupling with push-on connector

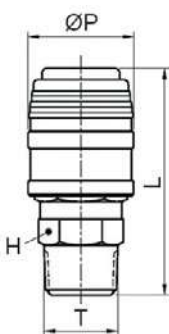


CODE	TUBE Ø	ØP	L	H
EU-75N-PM08	8x12	24,4	61,9	19
EU-75N-PM08-PL	8x12	24,4	61,9	19
EU-75N-PM08-X	8x12	24,4	61,9	19
EU-75N-PM08-X-PL	8x12	24,4	61,9	19
EU-75N-PM10	10x15	24,4	62,6	22
EU-75N-PM10-PL	10x15	24,4	62,6	22

Recommended for use with PU-PVC tube on page 751

**-PL: Free Passage**
**EU-75S-M**

Safety male quick coupling BSPT thread



CODE	T	ØP	L	H
EU-75S-M1/4	R 1/4"	28,5	53,6	19
EU-75S-M3/8	R 3/8"	28,5	54,6	19
EU-75S-M1/2	R 1/2"	28,5	59,1	22

Safety male quick coupling BSPP thread

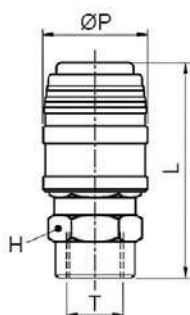
EU-75S-M1/4G	G 1/4"	28,5	52,1	21
EU-75S-M3/8G	G 3/8"	28,5	53,6	21
EU-75S-M1/2G	G 1/2"	28,5	54,7	24

**EU-75S-M**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**EU-75S-H**

Female safety quick coupling BSPP thread



CODE	T	ØP	L	H
EU-75S-H1/4	G 1/4"	28,5	51,6	19
EU-75S-H3/8	G 3/8"	28,5	53,1	22
EU-75S-H1/2	G 1/2"	28,5	57,3	25

**EU-75S-H**

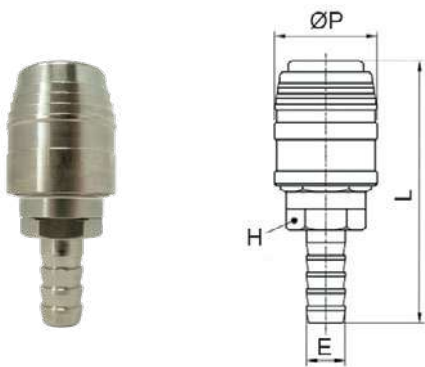
It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.





**EU-75S-E**

Safety quick coupling with barb connector



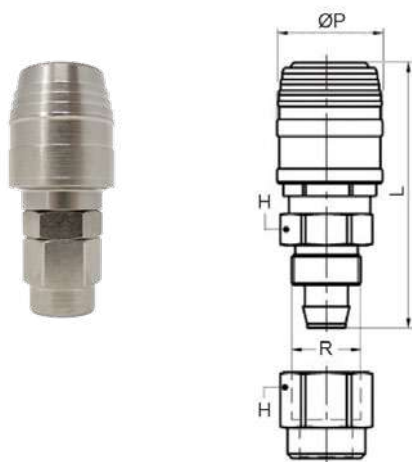
CODE	E	ØP	L	H
EU-75S-E6	7,2	28,5	61,1	19
EU-75S-E8	9,2	28,5	61,1	19
EU-75S-E10	11,2	28,5	65,1	19
EU-75S-E12	13,2	28,5	70,1	19
EU-75S-E13	13,8	28,5	70,1	19

**EU-75S-E**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**EU-75S-PM**

Safety quick coupling with push-on connector



CODE	TUBE Ø	ØP	L	H
EU-75S-PM08	8x12	28,5	65,2	19
EU-75S-PM10	10x15	28,5	70,0	22

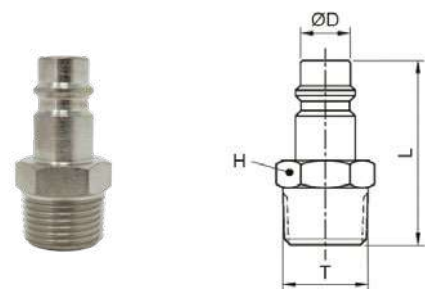
Recommended for use with PU-PVC tube on page 751

**EU-75S-PM**

It complies with the safety requirements stated in UNI-EN ISO 4414:2011: Protection against accidental tearing of the tube during decompression, "whiplash" effect.

**AEU-75M**

Male connection BSPT thread

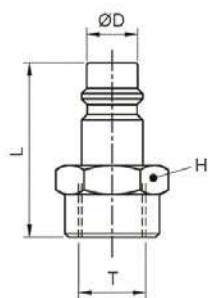


CODE	T	ØD	L	H
AEU-75M	R 1/4"	10	36,5	14
AEU-75M-X	R 1/4"	10	36,5	14
AEU-75M-316	R 1/4"	10	36,5	14
AEU-75M38	R 3/8"	10	37,0	17
AEU-75M38-316	R 3/8"	10	37,0	17
AEU-75M12-316	R 1/2"	10	42,0	22



**AEU-75H**

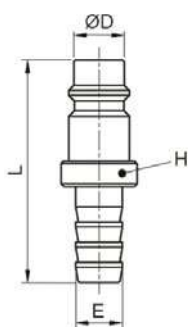
Female connection BSPP thread



CODE	T	ØD	L	H
AEU-75H	G 1/4"	10	34,0	17
AEU-75H-X	G 1/4"	10	34,0	17
AEU-75H-316	G 1/4"	10	34,0	17
AEU-75H38	G 3/8"	10	34,5	20
AEU-75H38-316	G 3/8"	10	34,5	22
AEU-75H12-316	G 1/2"	10	40,0	24

**AEU-75E**

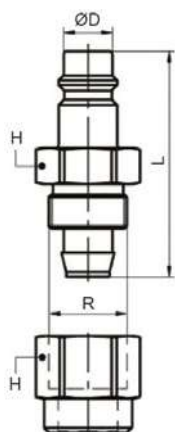
Connection with barb connector



CODE	E	ØD	L	H
AEU-75E	9,2	10	44,0	15
AEU-75E-X	9,2	10	44,0	15
AEU-75E10	11,2	10	48,0	15
AEU-75E10-316	11,2	10	48,0	15
AEU-75E12-316	13,2	10	48,0	17

**AEU-75PM**

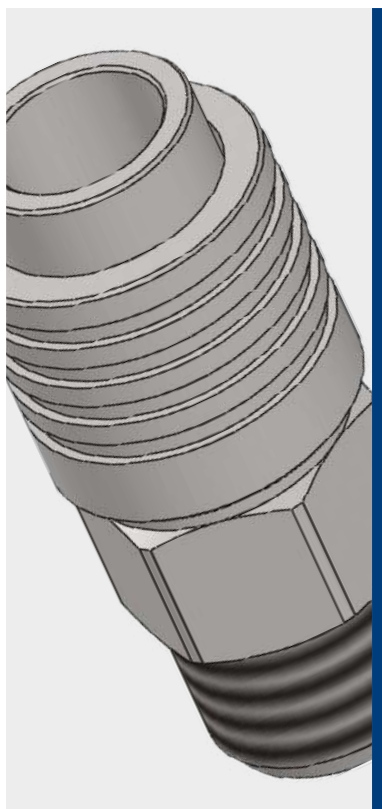
Connection with barb connector



CODE	TUBE Ø	R	ØD	L	H
AEU-75PM08	8x12	M16x1	10	46,7	19
AEU-75PM08-X	8x12	M16x1	10	46,7	19
AEU-75PM10	10x15	M20x1	10	51,5	22

Recommended for use with PU-PVC tube on page 751





NBR:  $-10^{\circ}\text{C} \div 95^{\circ}\text{C}$   
FKM:  $-15^{\circ}\text{C} \div 205^{\circ}\text{C}$

Standard version: NBR  
Stainless steel AISI 316 version:  
FKM



Working pressure:  
0-12 Bar (suggested)  
35 Bar (max)



- Taper gas BSPT ISO 7  
from R1/4" to R1/2"  
- Parallel gas BSPP ISO 228  
from G1/4" to G1/2"

## PROFILE

Germany

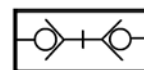
## NOMINAL DIAMETER

5,1 mm

## FLOWRATE

371 l/min

## CONFIGURATIONS



DO  
Double  
Shutter



EU-DO75: Compressed air and fluids suitable with construction materials

EU-DO75-316: Compressed air, water, grease, oils, mild acids, applications in highly oxidising or corrosive environments and fluids suitable with construction materials



Food contact materials  
EC 1935/2004  
EU-DO75-316 &  
AEU-DO-316 Series



D.M. 174/2004  
EU-DO75-316 &  
AEU-DO-316 Series



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863



COMPONENTS	EU-DO75	EU-DO75-316  
Body	Brass	Stainless steel AISI 316
Slide	Stainless steel AISI 302	Stainless steel AISI 302
Adapter	Brass	Stainless steel AISI 316
Valve	Brass	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 316
Ball	Stainless steel AISI 316	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302
Seal	NBR - FKM	FKM

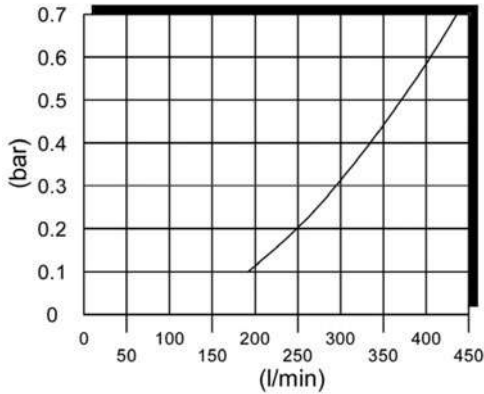
  

CONNECTION	AEU-DO	AEU-DO-316  
Body	Brass	Stainless steel AISI 316
Adapter	Brass	Stainless steel AISI 316
Valve	Brass	Stainless steel AISI 316
Spring	Stainless steel AISI 302	Stainless steel AISI 302
Seal	NBR - FKM	FKM

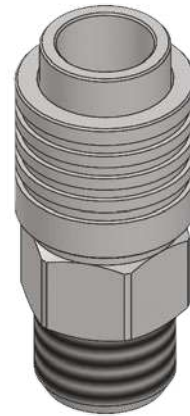


**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

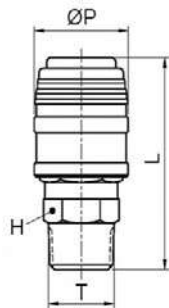


**VIEW - QUICK COUPLING EUROSTANDARD-DO**



**EU-DO75-M**

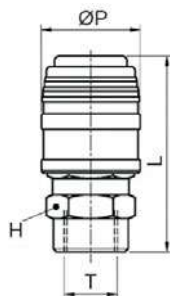
Male quick coupling BSPT thread



CODE	T	ØP	L	H
EU-DO75M14	R 1/4"	24,4	51,7	19
EU-DO75M14-316V	R 1/4"	24,4	51,7	19
EU-DO75M38	R 3/8"	24,4	52,7	19
EU-DO75M38-316V	R 3/8"	24,4	52,7	19
EU-DO75M12	R 1/2"	24,4	57,2	22
EU-DO75M12-316V	R 1/2"	24,4	57,2	22

**EU-DO75-H**

Female quick coupling BSPP thread

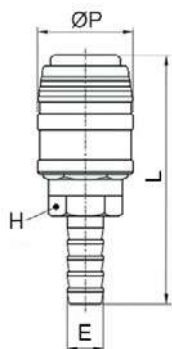


CODE	T	ØP	L	H
EU-DO75H14	G 1/4"	24,4	49,7	19
EU-DO75H14-316V	G 1/4"	24,4	49,7	19
EU-DO75H38	G 3/8"	24,4	51,2	22
EU-DO75H38-316V	G 3/8"	24,4	51,2	22
EU-DO75H12	G 1/2"	24,4	55,4	25
EU-DO75H12-316V	G 1/2"	24,4	55,4	25



**EU-DO75-E**

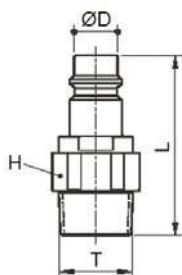
Quick coupling with barb connector



CODE	E	ØP	L	H
EU-DO75E6	7,2	24,4	59,2	19
EU-DO75E8	9,2	24,4	59,2	19
EU-DO75E8-316V	9,2	24,4	59,2	19
EU-DO75E10	11,2	24,4	63,2	19
EU-DO75E10-316V	11,2	24,4	63,2	19
EU-DO75E12	13,2	24,4	68,2	19
EU-DO75E13	13,8	24,4	68,2	19

**AEU-DO75M**

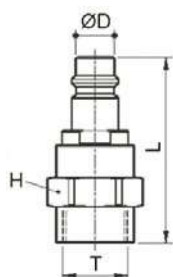
Male connection with shutter BSPT thread



CODE	T	ØD	L	H
AEU-DO75M14	R 1/4"	10	18,0	17
AEU-DO75M14-316V	R 1/4"	10	18,0	17
AEU-DO75M38	R 3/8"	10	20,2	19
AEU-DO75M38-316V	R 3/8"	10	20,2	19
AEU-DO75M12	R 1/2"	10	23,4	22
AEU-DO75M12-316V	R 1/2"	10	23,4	22

**AEU-DO75H**

Female connection with shutter BSPP thread

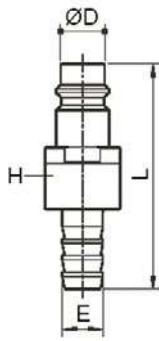


CODE	T	ØD	L	H
AEU-DO75H14	G 1/4"	10	19,0	17
AEU-DO75H14-316V	G 1/4"	10	19,0	17
AEU-DO75H38	G 3/8"	10	24,5	22
AEU-DO75H38-316V	G 3/8"	10	24,5	22
AEU-DO75H12	G 1/2"	10	27,0	24
AEU-DO75H12-316V	G 1/2"	10	27,0	24



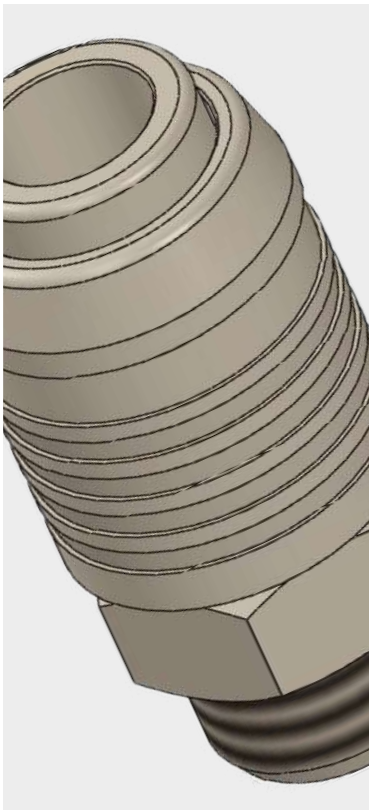
**AEU-DO75E**

Connection with shutter and barb connector



CODE	E	ØD	L	H
AEU-DO75E8	9,2	10	54,0	17
AEU-DO75E8-316V	9,2	10	54,0	17
AEU-DO75E10	11,2	10	58,0	17





NBR: -10°C ÷ 95°C



Working pressure:  
0-12 Bar (suggested)  
35 Bar (max)



Compressed air



- Taper gas BSPT ISO 7  
from R1/4" to R1/2"  
- Parallel gas BSPP ISO 228  
from G1/4" to G1/2"

**FLOWRATE**

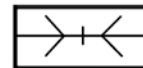
NE-10: 606 l/min

AEU-75: 1086 l/min

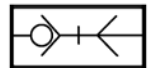
**PROFILE: EUROFLUID**



**CONFIGURATIONS**



PL  
Free  
Passage



SO  
Single  
Shutter



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

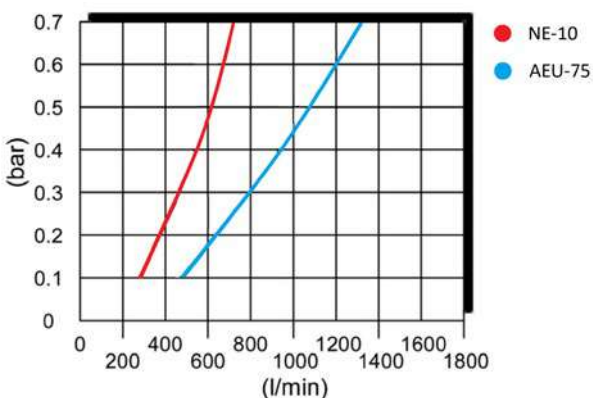


COMPONENTS	EUROFLUID
Body	Nickel-plated steel
Slide	Nickel-plated steel
Adapter	Nickel-plated brass
Valve	Nickel-plated brass
Spring	Stainless steel AISI 302
Ball	Chromed steel
Retaining ring	Stainless steel AISI 302
Seal	NBR

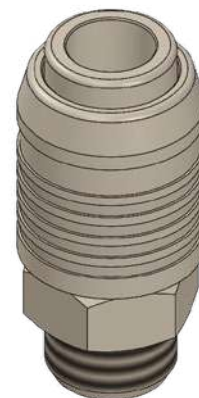
CONNECTION	NE-10	AEU-75
Body	Hardened nickel-plated steel	Hardened nickel-plated steel

**FLOW CHART**

Chart created considering a working pressure of 6 Bar with a pressure drop of 0.5 Bar and simple shut-off.

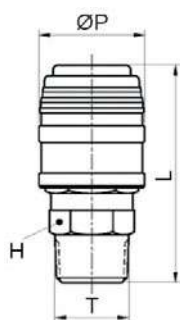


**VIEW - QUICK COUPLING EUROFLUID**



**EUROFLUID-M**

Male quick coupling BSPT thread



CODE	T	ØP	L	H
EUROFLUID-M1/4	R 1/4"	24,4	51,7	19
EUROFLUID-M1/4-PL	R 1/4"	24,4	51,7	19
EUROFLUID-M3/8	R 3/8"	24,4	52,7	19
EUROFLUID-M3/8-PL	R 3/8"	24,4	52,7	19
EUROFLUID-M1/2	R 1/2"	24,4	57,2	22
EUROFLUID-M1/2-PL	R 1/2"	24,4	57,2	22

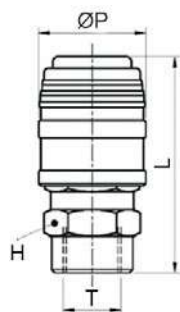
Male quick coupling BSPP thread

EUROFLUID-M1/4G	G 1/4"	24,4	50,2	21
EUROFLUID-M1/4G-PL	G 1/4"	24,4	50,2	21
EUROFLUID-M3/8G	G 3/8"	24,4	51,7	21
EUROFLUID-M3/8G-PL	G 3/8"	24,4	51,7	21
EUROFLUID-M1/2G	G 1/2"	24,4	54,7	24
EUROFLUID-M1/2G-PL	G 1/2"	24,4	54,7	24

-PL: Free Passage

**EUROFLUID-H**

Female quick coupling BSPP thread

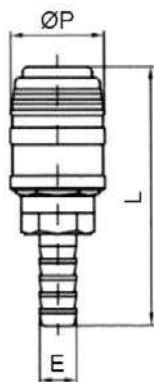


CODE	T	ØP	L	H
EUROFLUID-H1/4	G 1/4"	24,4	49,7	19
EUROFLUID-H1/4-PL	G 1/4"	24,4	49,7	19
EUROFLUID-H3/8	G 3/8"	24,4	51,2	22
EUROFLUID-H3/8-PL	G 3/8"	24,4	51,2	22
EUROFLUID-H1/2	G 1/2"	24,4	55,4	25
EUROFLUID-H1/2-PL	G 1/2"	24,4	55,4	25

-PL: Free Passage

**EUROFLUID-E**

Quick coupling with barb connector



CODE	E	ØP	L	H
EUROFLUID-E6	7,2	24,4	59,2	19
EUROFLUID-E6-PL	7,2	24,4	59,2	19
EUROFLUID-E8	9,2	24,4	59,2	19
EUROFLUID-E8-PL	9,2	24,4	59,2	19
EUROFLUID-E10	11,2	24,4	63,2	19
EUROFLUID-E10-PL	11,2	24,4	63,2	19
EUROFLUID-E12	13,2	24,4	68,2	19
EUROFLUID-E12-PL	13,2	24,4	68,2	19
EUROFLUID-E13	13,8	24,4	68,2	19
EUROFLUID-E13-PL	13,8	24,4	68,2	19

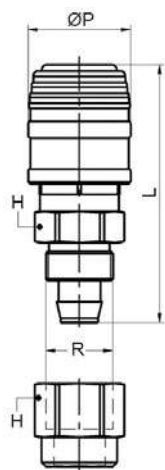
-PL: Free Passage





**EUROFLUID-PM**

Quick coupling with push-on connector

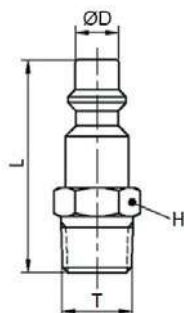


CODE	TUBE Ø	ØP	L	H
EUROFLUID-PM08	8x12	24,4	61,9	19
EUROFLUID-PM08-PL	8x12	24,4	61,9	19
EUROFLUID-PM10	10x15	24,4	66,7	22
EUROFLUID-PM10-PL	10x15	24,4	66,7	22

Recommended for use with PU-PVC tube on page 751

**-PL: Free Passage****NE-10M**

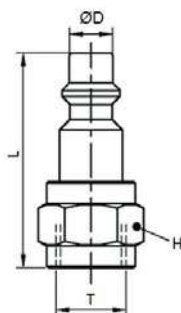
Male connection BSPT thread



CODE	T	ØD	L	H
NE-10M	R 1/4"	8	40,0	14
NE-10M-3/8	R 3/8"	8	42,5	17
NE-10M-1/2	R 1/2"	8	46,0	22

**NE-10M:** Connection available in the FLUID-10N & FLUID-10S SERIES on page 569**NE-10H**

Female connection BSPP thread



CODE	T	ØD	L	H
NE-10H	G 1/4"	8	40,0	17
NE-10H-3/8	G 3/8"	8	41,5	22
NE-10H-1/2	G 1/2"	8	44,0	25

**NE-10H:** Connection available in the FLUID-10N & FLUID-10S SERIES on page 569

**NE-10E**

Connection with barb connector

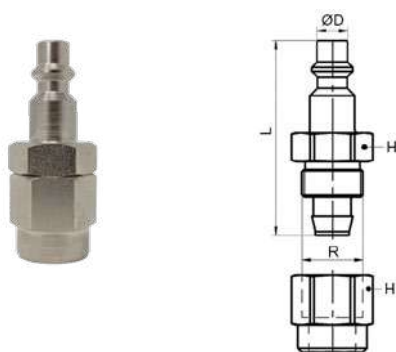


CODE	E	ØD	L
NE-10E-6	7,2	8	46,0
NE-10E-8	9,2	8	47,0
NE-10E-10	11,2	8	52,0
NE-10E-12	13,2	8	54,0

NE-10E: Connection available in the FLUID-10N & FLUID-10S SERIES on page 569

**NE-10PM**

Connection with push-on connector



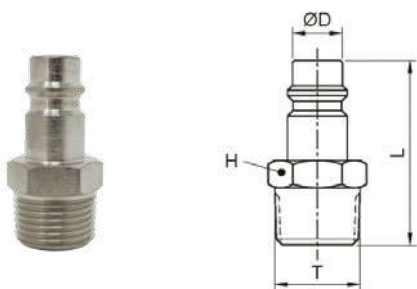
CODE	TUBE Ø	R	ØD	L	H
NE-10PM-08	8x12	M16x1	8	50,7	19
NE-10PM-10	10x15	M20x1	8	55,5	22

Recommended for use with PU-PVC tube on page 751

NE-10PM: Connection available in the FLUID-10N & FLUID-10S SERIES on page 569

**AEU-75M**

Male connection BSPT thread



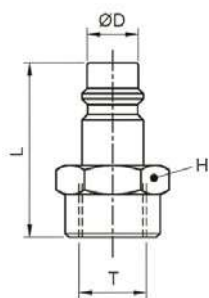
CODE	T	ØD	L	H
AEU-75M	R 1/4"	10	36,5	14
AEU-75M38	R 3/8"	10	37,0	17

AEU-75M: Connection available in the EUROSTANDARD SERIES on page 597



**AEU-75H**

Female connection BSPP thread

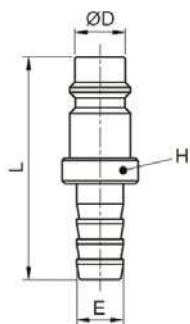


CODE	T	ØD	L	H
AEU-75H	G 1/4"	10	34,0	17
AEU-75H38	G 3/8"	10	34,5	20

**AEU-75H:** Connection available in the EUROSTANDARD SERIES on page 597

**AEU-75E**

Connection with barb connector

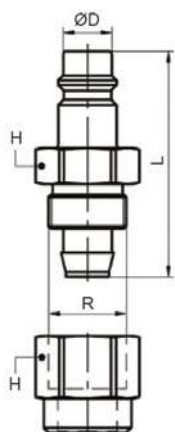


CODE	E	ØD	L	H
AEU-75E	9,2	10	44,0	15
AEU-75E10	11,2	10	48,0	15

**AEU-75E:** Connection available in the EUROSTANDARD SERIES on page 597

**AEU-75PM**

Connection with push-on connector



CODE	TUBE Ø	R	ØD	L	H
AEU-75PM08	8x12	M16x1	10	46,7	19
AEU-75PM10	10x15	M20x1	10	51,5	22

Recommended for use with PU-PVC tube on page 751

**AEU-75PM:** Connection available in the EUROSTANDARD SERIES on page 597







NBR: -10°C ÷ 95°C  
 FKM: -20°C ÷ 205°C  
 Standard version: NBR  
 Stainless steel AISI 316 version:  
 FKM



Working pressure:  
 200 Bar (max)



**CRHL12 & CRHL12R:**  
 Compressed air and fluids suitable with construction materials  
**CRHL12-303 & CRHL-303R:**  
 Compressed air, water, industrial soaps, applications in oxidising or corrosive environments and fluids suitable with construction materials  
**CRHL12-316 & CRHL12-316R:**  
 Compressed air, water, grease, oils, mild acids, applications in highly oxidising or corrosive environments and fluids suitable with construction materials

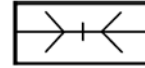


Parallel gas BSPP ISO 228  
 from G1/4" to G1/2"

**NOMINAL DIAMETER**

12,1 mm

**CONFIGURATIONS**



PL  
 Free  
 Passage



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863



COMPONENTS	CRHL12 & CRHL12-R	CRHL12-303 & CRHL12-R-303	CRHL12-316 & CRHL12-R-316
Body	Brass	Stainless steel AISI 303	Stainless steel AISI 316
Slide	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316
Slide support	EPDM BLACK (CRHL12R)	EPDM BLACK (CRHL12-303R)	EPDM BLUE (CRHL12-316R)
Spring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Ball	Stainless steel AISI 316	Stainless steel AISI 316	Stainless steel AISI 316
Retaining ring	Stainless steel AISI 302	Stainless steel AISI 302	Stainless steel AISI 302
Seal	NBR - FKM	NBR - FKM	NBR - FKM

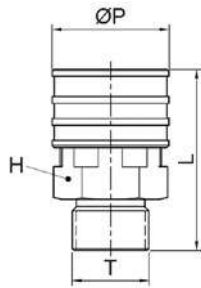
CONNECTION	ACRHL12	ACRHL12-303	ACRHL12-316
Body	Nickel-plated steel	Stainless steel AISI 303	Stainless steel AISI 316

**VIEW - QUICK COUPLING CRHL12-R-H**



**CRHL12-M**

Male quick coupling BSPP thread

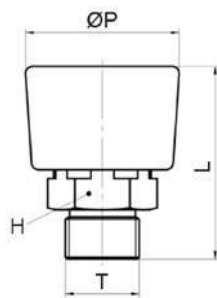


CODE	T	ØP	L	H
CRHL12-M12G-303	G 1/2"	32,0	49,6	27
CRHL12-M12G-316	G 1/2"	32,0	49,6	27

**CRHL12-M**  
Supplied with NBR seal

**CRHL12-R-M**

Male quick coupling with rubber cover BSPP thread

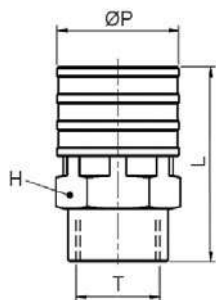


CODE	T	ØP	L	H
CRHL12-M12G-303R	G 1/2"	44,0	57,6	27
CRHL12-M12G-316R	G 1/2"	44,0	57,6	27

**CRHL12-R-M**  
Supplied with NBR seal

**CRHL12-H**

Female quick coupling BSPP thread

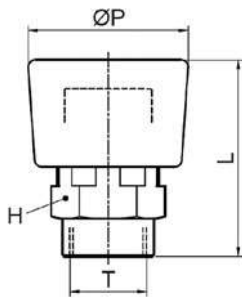


CODE	T	ØP	L	H
CRHL12-H38	G 3/8"	32,0	40,7	27
CRHL12-H38-303	G 3/8"	32,0	40,7	27
CRHL12-H38-316	G 3/8"	32,0	40,7	27
CRHL12-H12	G 1/2"	32,0	46,1	27
CRHL12-H12-303	G 1/2"	32,0	46,1	27
CRHL12-H12-316	G 1/2"	32,0	46,1	27



**CRHL12-R-H**

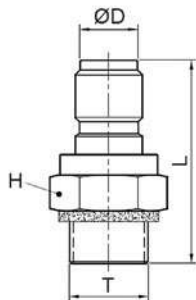
Female quick coupling with rubber cover BSPP thread



CODE	T	ØP	L	H
CRHL12-H38R	G 3/8"	44,0	48,7	27
CRHL12-H38-303R	G 3/8"	44,0	48,7	27
CRHL12-H38-316R	G 3/8"	44,0	48,7	27
CRHL12-H12R	G 1/2"	44,0	54,1	27
CRHL12-H12-303R	G 1/2"	44,0	54,1	27
CRHL12-H12-316R	G 1/2"	44,0	54,1	27

**ACRHL12-M-C**

Male connection BSPP thread with O-ring

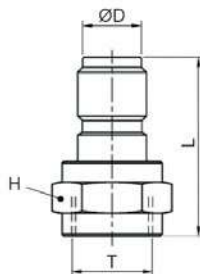


CODE	T	ØD	L	H
ACRHL12-M12G-303C	G 1/2"	15,3	54,0	27
ACRHL12-M12G-316C	G 1/2"	15,3	54,0	27

**ACRHL12-M-C**  
Supplied with NBR seal

**ACRHL12-H**

Female connection BSPP thread

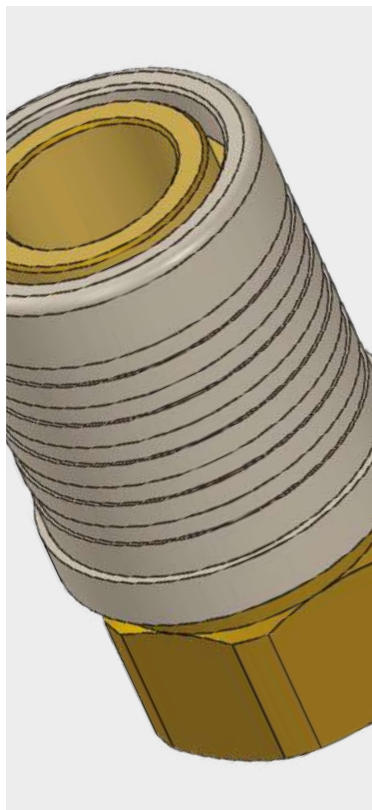


CODE	T	ØD	L	H
ACRHL12-H14	G 1/4"	15,3	37,5	20
ACRHL12-H14-303	G 1/4"	15,3	37,5	22
ACRHL12-H38	G 3/8"	15,3	37,5	22
ACRHL12-H38-303	G 3/8"	15,3	37,5	22
ACRHL12-H38-316	G 3/8"	15,3	37,5	22
ACRHL12-H12	G 1/2"	15,3	44,5	27
ACRHL12-H12-303	G 1/2"	15,3	44,5	27
ACRHL12-H12-316	G 1/2"	15,3	44,5	27









NBR: -10°C ÷ 95°C  
FKM: -20°C ÷ 205°C  
Standard version: NBR



Working pressure:  
35 Bar (max)



Compressed air, water for cooling systems, oils and fluids suitable with construction materials. Mainly used for cooling injection moulds.



- Taper gas BSPT ISO 7 from R1/8" to R1/2"  
- Parallel gas BSPP ISO 228 from G1/8" to G3/8"

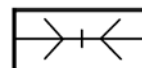
**NOMINAL DIAMETER**

8,5 mm

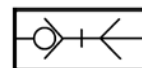
**FLOWRATE**

1135 l/min

**CONFIGURATIONS**



PL  
Free  
Passage



SO  
Single  
Shutter



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

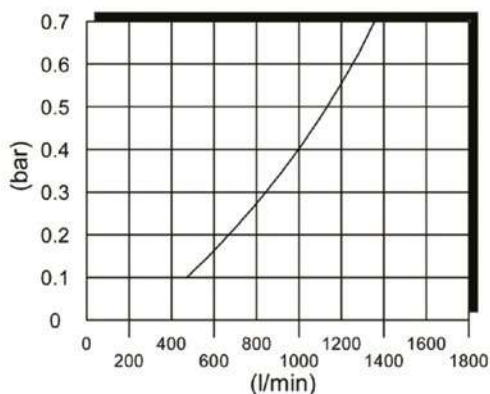


COMPONENTI	CRM-55
Body	Brass
Slide	Nickel-plated steel
Adapter	Brass
Valve	Brass
Spring	Stainless steel AISI 302
Ball	Stainless steel AISI 420
Retaining ring	Stainless steel AISI 302
Clip	Stainless steel AISI 304
Seal support	Brass
Seal	NBR - FKM

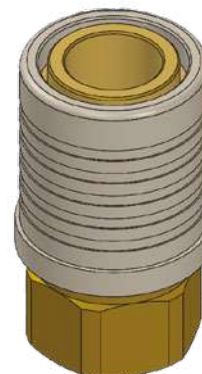
CONNECTION	ACRM-55-L	ACRM-55	ACRM-55-X
Body	Brass	Nickel-plated steel	Stainless steel AISI 303

**FLOW CHART**

Grafico realizzato tenendo conto di una pressione d'esercizio pari a 6 Bar con perdita di carico di 0,5 Bar e semplice intercettazione.

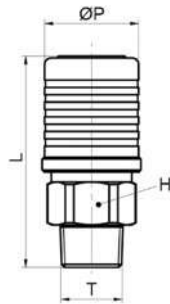


**VIEW - QUICK COUPLING CRM-55-H**



**CRM-55-M**

Male quick coupling BSPT thread

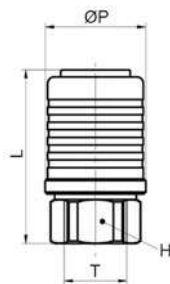


CODE	T	ØP	L	H
CRM-55-3/8-M	R 3/8"	25,5	57,6	22
CRM-55-3/8-PL-M	R 3/8"	25,5	57,6	22
CRM-55-1/2-M	R 1/2"	25,5	61,0	22
CRM-55-1/2-PL-M	R 1/2"	25,5	61,0	22

-PL: Free Passage

**CRM-55-H**

Female quick coupling BSPP thread

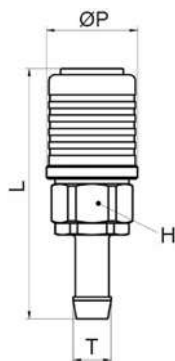


CODE	T	ØP	L	H
CRM-55-3/8	G 3/8"	25,5	46,0	22
CRM-55-3/8-PL	G 3/8"	25,5	46,0	22

-PL: Free Passage

**CRM-55-E**

Quick coupling with barb connector



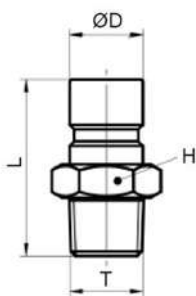
CODE	E	ØP	L	H
CRM-55-E	11,2	25,5	74,5	22
CRM-55-PL-E	11,2	25,5	74,5	22

-PL: Free Passage



**ACRM-55-M**

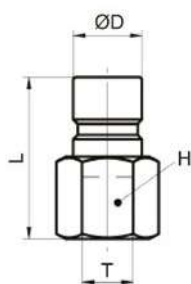
Male connection BSPT thread



CODE	T	ØD	L	H
ACRM-55M1-L	R 1/8"	13,2	30,3	17
ACRM-55M1	R 1/8"	13,2	30,3	17
ACRM-55ML	R 1/4"	13,2	31,8	17
ACRM-55M	R 1/4"	13,2	31,8	17
ACRM-55M-X	R 1/4"	13,2	31,8	17
ACRM-55M-3/8	R 3/8"	13,2	32,8	17

**ACRM-55-H**

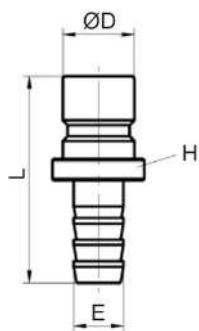
Female connection BSPP thread



CODE	T	ØD	L	H
ACRM-55H1-L	G 1/8"	13,2	31,3	17
ACRM-55H1	G 1/8"	13,2	31,3	17
ACRM-55HL	G 1/4"	13,2	31,3	17
ACRM-55H	G 1/4"	13,2	31,3	17
ACRM-55H-X	G 1/4"	13,2	31,3	17
ACRM-55H-3/8	G 3/8"	13,2	35,3	22

**ACRM-55-E**

Connection with barb connector

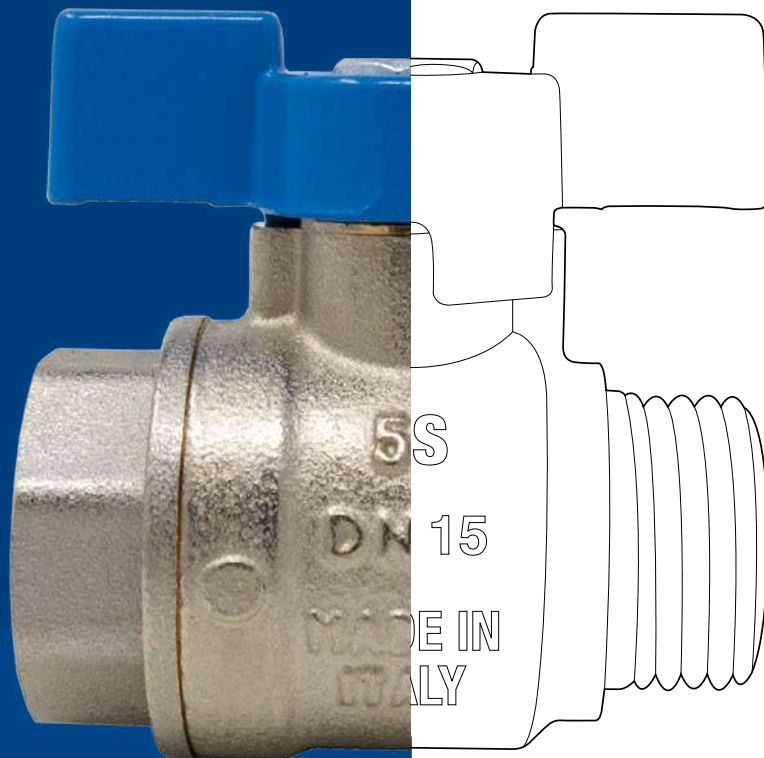


CODE	E	ØD	L	H
ACRM-55-E8	9,2	13,2	38,3	-





# INDUSTRIAL VALVES





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**INDUSTRIAL VALVES**

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p. 707  
**INDUSTRIAL VALVES -  
SOLENOID VALVES**

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# TECHNICAL INDEX



# INDUSTRIAL VALVES

PLUS

**MADE WITH GASKET OF DIFFERENT  
MATERIALS TO INTERCEPT MANY  
TYPE OF FLUIDS**

---

**MANY POSSIBLE CONFIGURATIONS  
TO BE USED IN MULTIPLE  
APPLICATIONS**

---

**EXCELLENT PERFORMANCE WITH  
GOOD MECHANICAL RESISTANCE**

---

**WIDE RANGE OF BRASS AND  
STAINLESS STEEL, IN MICRO,  
MINI, UNIVERSAL, 2 AND 3 WAYS  
VERSIONS, FLANGED, WITH Y-FILTER  
AND WITH CONDENSATE DRAIN**



**INDUSTRIAL VALVES / BRASS BALL VALVES MINI - EUROPE SERIES**

---

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---

p. 631 / **9110-F**p. 631 / **9120-F****INDUSTRIAL VALVES / BRASS BALL VALVES MICRO SERIES**

---

p. 634 / **9142**p. 634 / **9162****INDUSTRIAL VALVES / UNIVERSAL BRASS BALL VALVES FOR POTABLE WATER**

---

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**INDUSTRIAL VALVES / UNIVERSAL BRASS BALL VALVES - NPT THREAD**

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**INDUSTRIAL VALVES / UNIVERSAL BRASS BALL VALVES LOCKABLE SERIES**

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**INDUSTRIAL VALVES / UNIVERSAL BRASS BALL VALVES - STANDARD**

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p. 645 / **9260**

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**INDUSTRIAL VALVES / UNIVERSAL BRASS BALL VALVES HEAVY SERIES**

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**INDUSTRIAL VALVES / UNIVERSAL BRASS BALL VALVES HEAVY SERIES FOR HIGH TEMPERATURES**

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**INDUSTRIAL VALVES / BRASS BALL VALVES - THREE-WAYS**

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p. 652 / **9270**p. 652 / **9280**p. 653 / **9272**p. 653 / **9282****INDUSTRIAL VALVES / STAINLESS STEEL AISI 316 BALL VALVES MINI SERIES**

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p. 656 / **9170**p. 656 / **9180****INDUSTRIAL VALVES / STAINLESS STEEL AISI 316 BALL VALVES - FULL BORE**

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p. 658 / **9320****INDUSTRIAL VALVES / STAINLESS STEEL AISI 316 BALL VALVES - THREE PIECES FULL BORE**

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**INDUSTRIAL VALVES / STAINLESS STEEL AISI 316 BALL VALVES - FLANGED PN 16**

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**INDUSTRIAL VALVES / STAINLESS STEEL AISI 316 BALL VALVES - IMPURITY COLLECTOR**

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**INDUSTRIAL VALVES / SAFETY VALVES**

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**INDUSTRIAL VALVES / BRASS BALL VALVES - CONDENSED DRAIN**

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# TierreGroup®

Always a fittings solution



**Serie XVR in acciaio inox.  
Naturalmente resistente.**




**TierreGroup®**  
Always a fitting solution

**FOLLOW US!**





-10°C ÷ 90°C



**Working pressure:**  
from 0 to 10 Bar (at 90°C)



Compressed air and fluids  
suitable with construction  
materials



Parallel gas BSPP ISO 228  
from G1/8" to G3/4"

**LEVER ROTATION**

90° lever rotation

**AVAILABILITY**

- Aluminium lever on request
- Stem sealing ring in FKM (Viton) or EPDM on request



**Body:**

9110 & 9120: Chromed brass  
CW614 UNI-EN 12164

9130: Nickel-plated brass  
CW614 UNI-EN 12164

**Stem:** Brass

CW614 UNI-EN 12164

**Nut:** Brass

CW614 UNI-EN 12164

**Ball:** Nickel-plated brass

CW614 UNI-EN 12164

**Ball seals:** PTFE (Teflon)

**Stem sealing ring:** NBR 70

**Lever:** Glass fiber-charged nylon 66

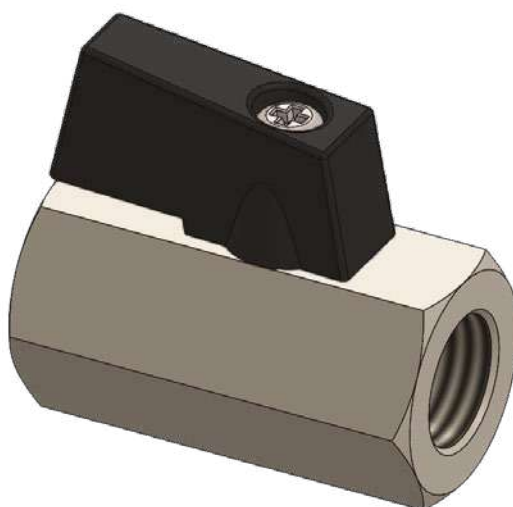


Products in compliance with  
EC Regulation 1907/2006



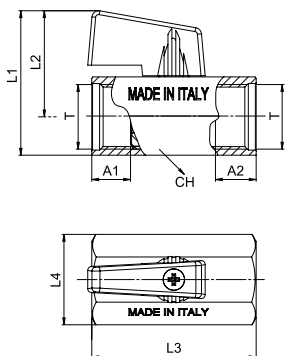
Products in compliance with  
the directive EU 2015/863

**VIEW - VALVE 9110**



9110

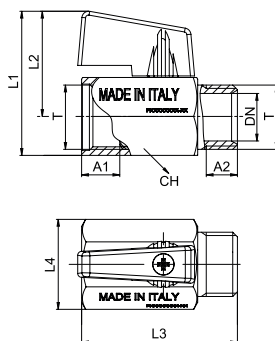
Female mini ball valve BSPP thread



CODE	T	A1	A2	L1	L2	L3	L4	CH
9110TR18	G 1/8"	8,5	7,5	37,0	27,0	39,0	23,0	20
9110TR14	G 1/4"	7,5	9,0	37,0	27,0	39,0	23,0	20
9110TR38	G 3/8"	10,0	10,0	37,0	27,0	42,0	23,0	20
9110TR12	G 1/2"	11,7	10,0	41,0	29,0	47,0	28,0	24
9110TR34	G 3/4"	12,0	11,0	47,0	32,0	54,0	35,0	30

9120

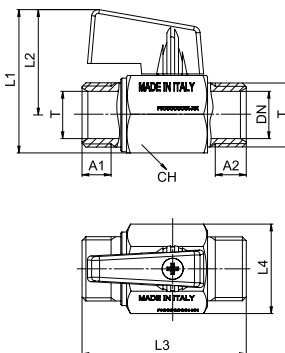
M/F mini ball valve BSPP thread



CODE	T	DN	A1	A2	L1	L2	L3	L4	CH
9120TR18	G 1/8"	6	8,5	6,0	37,0	27,0	39,0	23,0	20
9120TR14	G 1/4"	8,2	9,0	8,0	37,0	27,0	39,0	23,0	20
9120TR38	G 3/8"	12,2	10,0	8,0	37,0	27,0	40,0	23,0	20
9120TR12	G 1/2"	15,2	12,0	10,0	41,0	29,0	45,0	27,0	24
9120TR34	G 3/4"	18,2	12,0	12,0	47,0	32,0	51,0	35,0	30

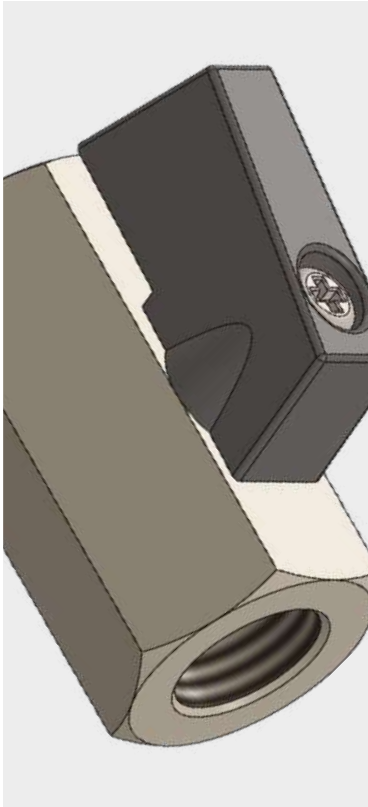
9130

Male mini ball valve BSPP thread



CODE	T	DN	A1	A2	L1	L2	L3	L4	CH
9130TR14	G 1/4"	8,2	7,0	7,0	37,0	27,0	40,4	23,0	20
9130TR38	G 3/8"	12,2	7,5	8,0	37,0	27,0	42,4	23,0	20
9130TR12	G 1/2"	15,2	9,0	9,0	41,4	29,4	49,7	27,0	24





-10°C ÷ 90°C



Working pressure:  
from 0 to 10 Bar (at 90°C)



Compressed air and fluids  
suitable with construction  
materials



Parallel gas BSPP ISO 228  
from G1/8" to G1/2"

**LEVER ROTATION**

90° lever rotation



Body: Nickel-plated brass

Stem: Nickel-plated brass

Nut: Nickel-plated brass

Ball: Nickel-plated brass

Lever: Aluminium

Ball seals: PTFE (Teflon)

Stem sealing ring: NBR

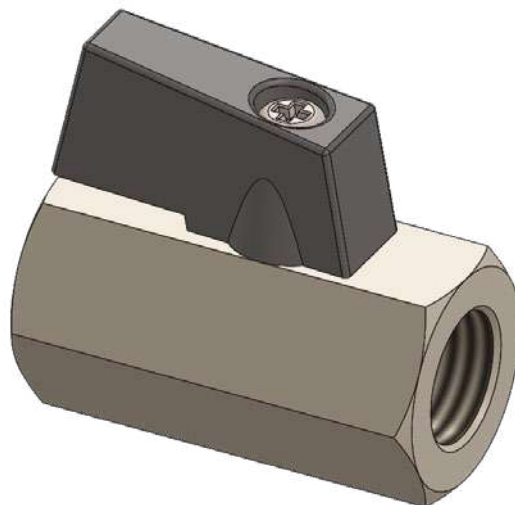


Products in compliance with  
EC Regulation 1907/2006



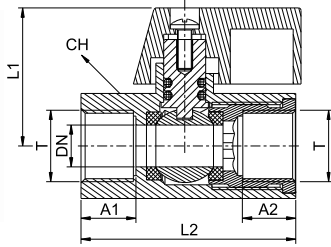
Products in compliance with  
the directive EU 2015/863

**VIEW - VALVE 9110-F**



**9110-F**

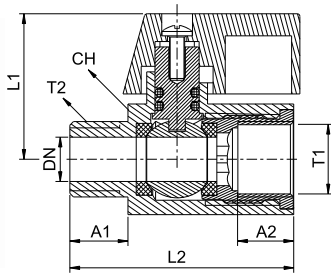
Female mini ball valve BSPP thread



CODE	T	DN	A1	A2	L1	L2	CH
9110TR18-F	G 1/8"	6	9,5	9,5	26,0	40,0	20
9110TR14-F	G 1/4"	8	10,0	10,0	26,0	41,0	20
9110TR38-F	G 3/8"	8	10,0	9,0	26,0	40,5	20
9110TR12-F	G 1/2"	10	10,0	9,0	28,0	45,5	23,8

**9120-F**

M/F mini ball valve BSPP thread



CODE	T1	T2	DN	A1	A2	L1	L2	CH
9120TR18-F	G 1/8"	G 1/8"	6	10,0	10,0	26,0	40,5	20
9120TR14-F	G 1/4"	G 1/4"	8	10,0	10,0	26,0	40,5	20
9120TR38-F	G 3/8"	G 3/8"	8	10,0	9,0	26,0	41,0	20
9120TR12-F	G 1/2"	G 1/2"	10	10,0	9,0	28,0	46,0	23,8







-5°C ÷ 70°C



Working pressure:  
20 Bar



Compressed air, lubricated compressed air, gases and fluids suitable with construction materials



- Taper gas BSPT ISO 7 from R1/8" to R1/2"
- Parallel gas BSPP ISO 228 from G1/8" to G1/2"

#### LEVER OPERATION

It is closed and opened by turning the lever by 1/4 turn to the end of the stroke.



- Body: Nickel-plated brass CW617W UNI-EN 12164
- Stem: Nickel-plated brass CW614N UNI-EN 12164
- Nut: Nickel-plated brass CW614N UNI-EN 12164
- Ball: Nickel-plated brass CW614N UNI-EN 12164
- Ball seals: PTFE (Teflon)
- Stem sealing ring: NBR 70
- Lever: Nylon 66
- Cap on lever: Nylon 66 (black)

#### AVAILABILITY

- Cap on lever available in red, blue, yellow, green and orange colours.

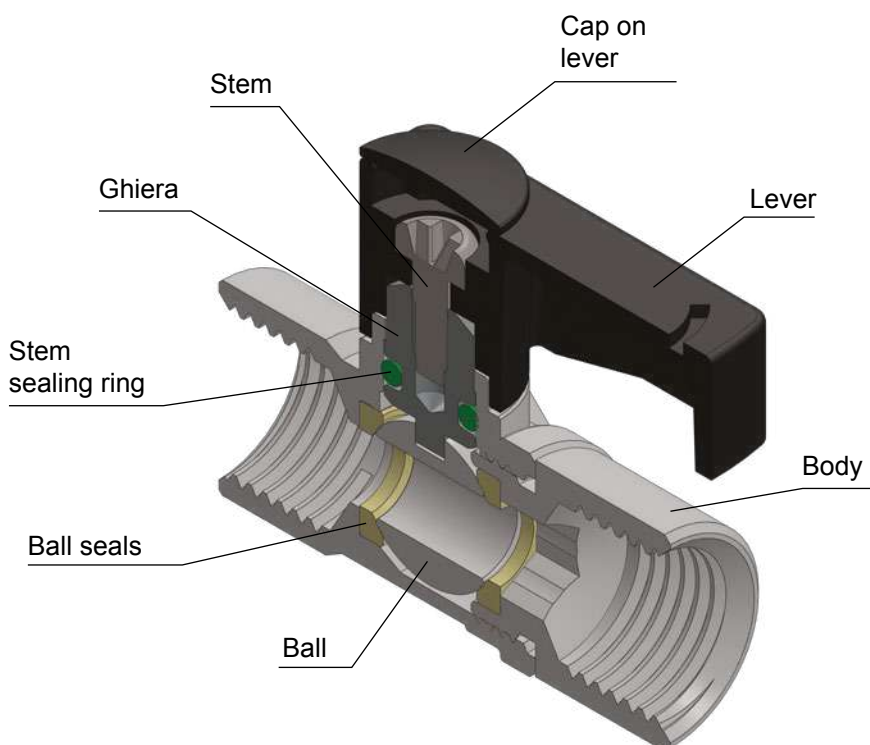


Products in compliance with EC Regulation 1907/2006



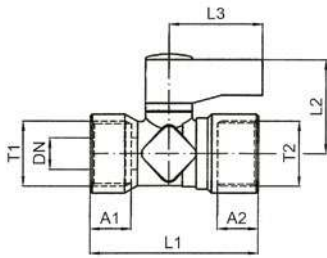
Products in compliance with the directive EU 2015/863

## CONSTRUCTION DETAILS



**9142**

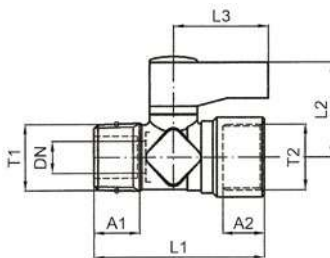
## Female micro ball valve BSPP thread



CODE	T1	T2	DN	A1	A2	L1	L2	L3
9142TR18	G 1/8"	G 1/8"	6	8,0	8,0	34,0	23,0	24,0
9142TR14	G 1/4"	G 1/4"	6	9,5	9,5	38,0	23,0	24,0
9142TR38	G 3/8"	G 3/8"	8	10,5	10,5	43,0	24,0	24,0
9142TR12	G 1/2"	G 1/2"	10	12,0	12,0	49,0	27,0	34,0

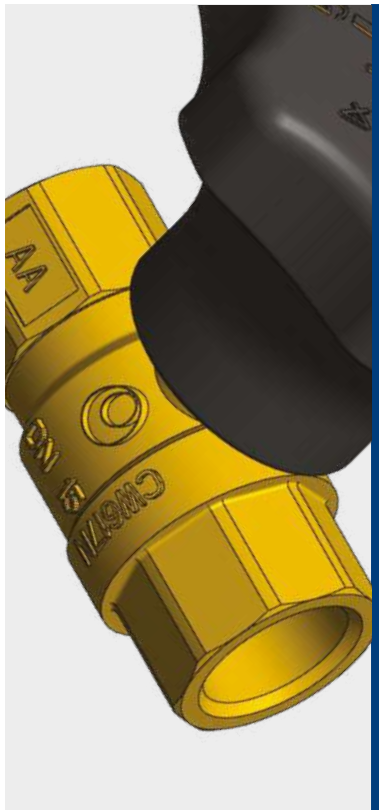
**9162**

## Micro ball valve, male BSPT &amp; female BSPP threads



CODE	T1	T2	DN	A1	A2	L1	L2	L3
9162TR18	R 1/8"	G 1/8"	6	7,0	8,0	33,0	23,0	24,0
9162TR14	R 1/4"	G 1/4"	6	8,0	9,5	35,0	23,0	24,0
9162TR38	R 3/8"	G 3/8"	8	9,0	10,5	40,0	24,0	24,0
9162TR12	R 1/2"	G 1/2"	10	10,0	12,0	49,0	27,0	34,0





-20°C ÷ 110°C (general use)  
0°C ÷ 90°C (potable water)



**Working pressure (9203):**  
10 Bar

**Working pressure (9204):**  
50 Bar (from 3/8" to 3/4")  
40 Bar (from 1" to 1-1/4")  
32 Bar (from 1-1/2" to 2")



Potable water and fluids suitable with construction materials



Parallel gas BSPP  
EN 10226-1  
from G3/8" to G2"

**FEATURES**

The type of sphere used avoids pooling of water in the valve. This prevents bacteria, possibly contained in the water, from remaining into the system for an extended period of time unlike normal valves. Valves 9203 and 9204 are also anti-freeze thanks again to the type of sphere used. This technology allows the valve body – sphere – tubing to be kept in communication at all times, preventing the water from freezing, which would cause an increase in pressure on the valve body and causing it break.



ACS



Product approved by DVGW



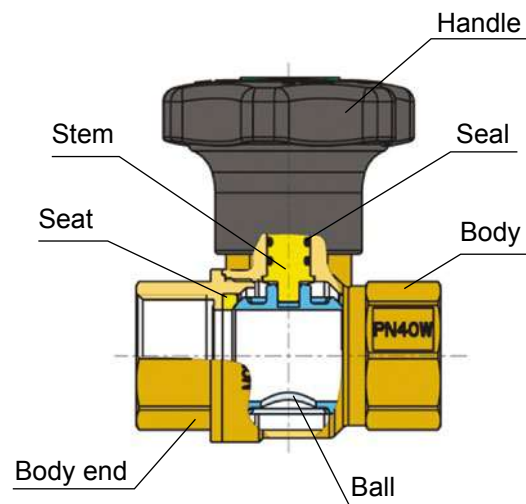
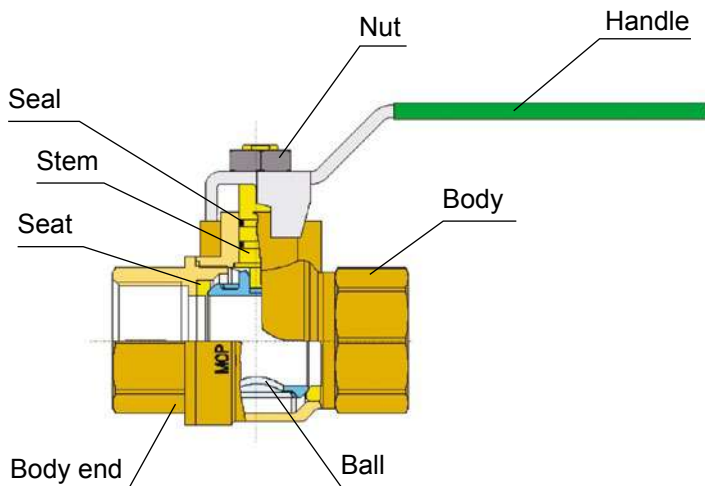
Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

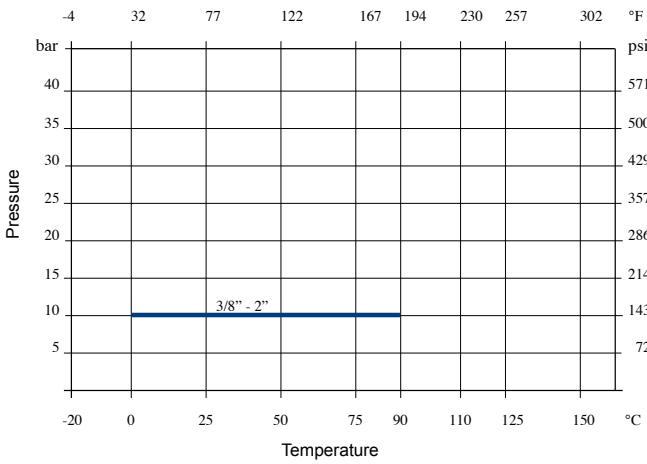
COMPONENTS	9203	9204
Body	Brass CW617N-DW UNI EN 12165	Brass CW617N UNI EN 12165/98
Body end	Brass CW617N-DW UNI EN 12165	Brass CW617N UNI EN 12165/98
Seat	PTFE	PTFE
Ball	Chromed brass CW617N-DW UNI EN 12165	Chromed brass CW617N UNI EN 12165/98
Stem (anti blow-out)	Brass CW614N UNI EN12164/98	Brass CW614N UNI EN12164/98
Seal	EPDM - HNBR	EPDM - HNBR
Handle	Steel with PVC coating	Nylon
Nut	Zinc-plated steel	/

**CONSTRUCTION DETAILS**



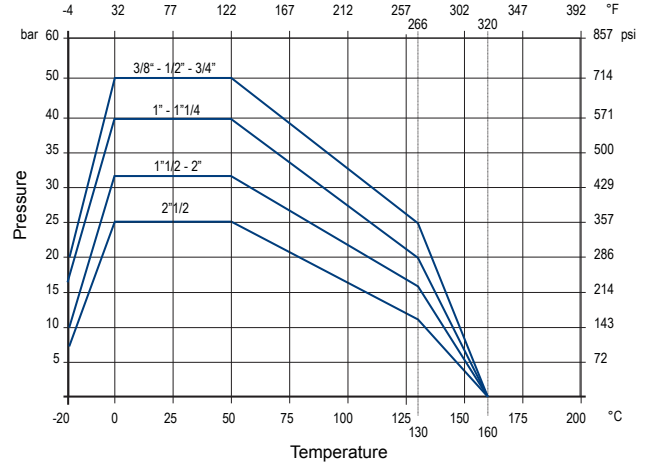
**PRESSURE-TEMPERATURE CHART**

9203



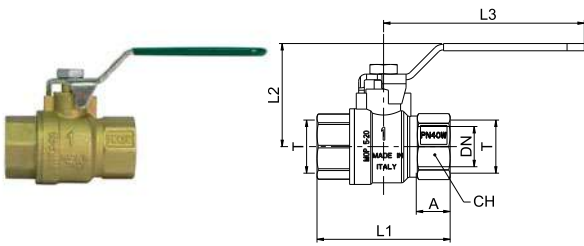
**PRESSURE-TEMPERATURE CHART**

9204



**9203**

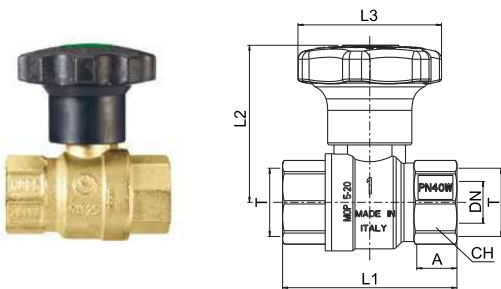
Universal full bore ball valve, female BSPP thread, green lever



CODE	T	DN	A	L1	L2	L3	CH
9203TR38	G 3/8"	10	12,0	45,0	40,0	80,0	21
9203TR12	G 1/2"	15	17,0	63,0	52,0	90,0	26
9203TR34	G 3/4"	20	19,5	71,0	55,0	90,0	31
9203TR1	G 1"	25	21,0	83,0	64,0	125,0	38
9203TR1 14	G 1-1/4"	32	22,0	92,0	69,0	125,0	48
9203TR1 12	G 1-1/2"	40	23,5	104,0	78,0	140,0	55
9203TR2	G 2"	50	28,0	124,0	85,0	140,0	68

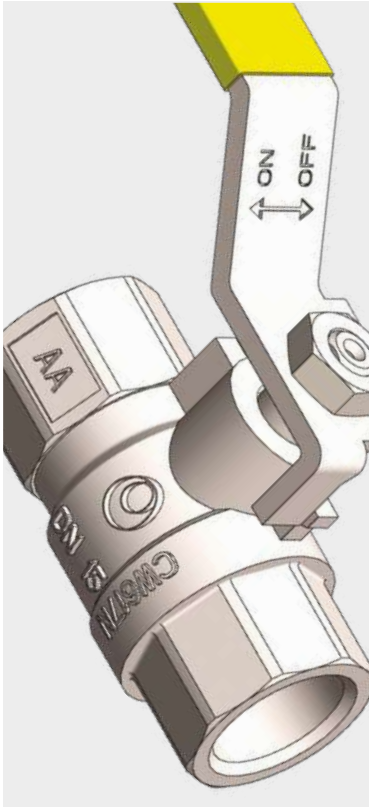
**9204**


Universal full bore ball valve with gear, female BSPP thread





CODE	T	DN	A	L1	L2	L3	CH
9204TR38	G 3/8"	10	12,0	45,0	59,0	70,0	21
9204TR12	G 1/2"	15	17,0	63,0	65,0	70,0	26
9204TR34	G 3/4"	20	19,5	71,0	68,0	70,0	31
9204TR1	G 1"	25	21,0	83,0	76,0	70,0	38
9204TR1 14	G 1-1/4"	32	22,0	92,0	81,0	70,0	48
9204TR1 12	G 1-1/2"	40	23,5	104,0	105,0	112,0	55
9204TR2	G 2"	50	28,0	124,0	112,0	112,0	68





 -20°C ÷ 60°C

 Working pressure:  
20 Bar

 Medium and low pressure gas  
and hydrocarbons

 Parallel gas BSPP  
UNI ISO 7/1 Rp  
from G1/4" to G2"

**FEATURES**

The 9208 Series are approved for medium and low pressure gas distribution plants and for hydrocarbons.

- Body: Nickel-plated brass  
CW617N UNI EN 12165/98
- Stem (anti blow-out): Brass  
CW614N UNI EN 12164/98
- Body end: Nickel-plated brass  
CW617N UNI EN 12165/98
- Ball: Chromed brass  
CW617N UNI EN 12165/98
- Seat: PTFE
- O-ring: NBR
- Handle: Steel
- Nut: Steel

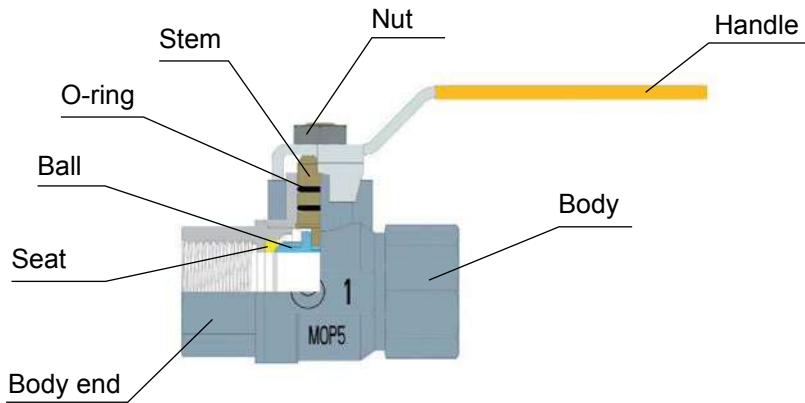
 Product approved by  
DVGW

 Product approved by  
SVGW SSGE

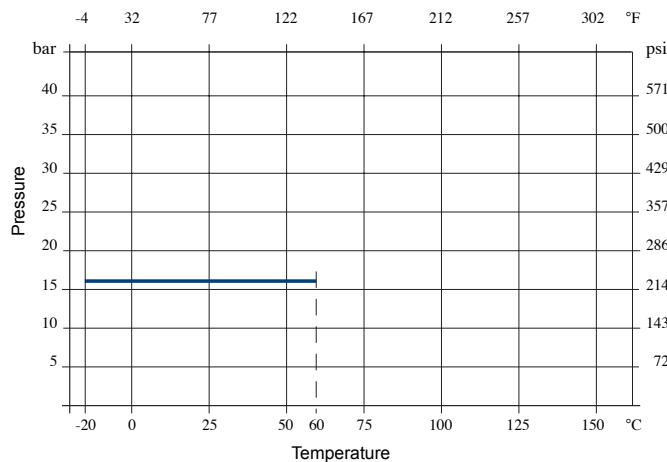
 Products in compliance with  
EC Regulation 1907/2006

 Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**PRESSURE-TEMPERATURE CHART**

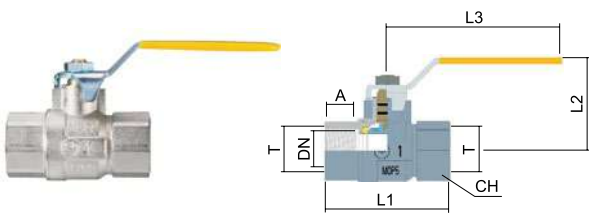


drawings and technical data are not binding & can be changed without notice



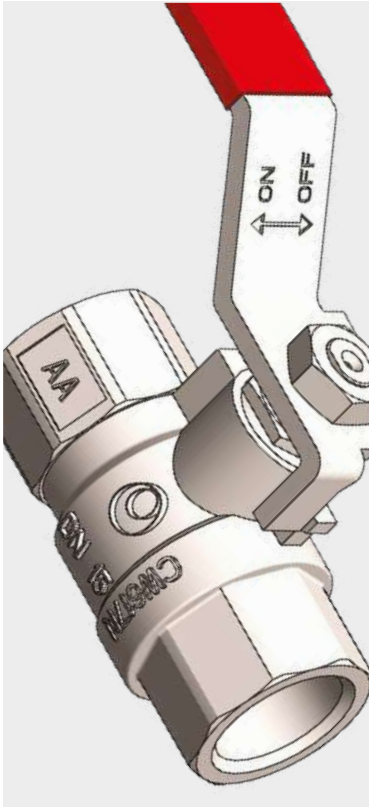
**9208**

Universal full bore ball valve for gas, female BSPP thread, yellow lever



CODE	T	DN	A	L1	L2	L3	CH
9208TR14	G 1/4"	10	10	45,0	41,0	80,0	21
9208TR38	G 3/8"	10	10	45,0	41,0	80,0	21
9208TR12	G 1/2"	15	15	63,0	54,0	90,0	26
9208TR34	G 3/4"	20	16	71,0	58,0	90,0	31
9208TR1	G 1"	25	19	83,0	66,0	125,0	38
9208TR114	G 1-1/4"	32	21	92,0	71,0	125,0	48
9208TR112	G 1-1/2"	40	21	104,0	80,0	140,0	55
9208TR2	G 2"	50	26	124,0	88,0	140,0	68





-29°C ÷ 150°C



**Working pressure:**  
 40 Bar (from 1/4" to 1")  
 32 Bar (from 1-1/4" to 2")  
 25 Bar (from 2-1/2" to 4")



Hydraulic, sanitary, compressed air industries, hydrocarbons and fluids suitable with construction materials



NPT ANSI B.1.20.1 from N1/4" to N4"



**Body:** Nickel-plated brass  
 CW617N UNI EN 12165/98  
**Stem:** Brass  
 CW614N UNI EN 12164/98  
**Body end:** Nickel-plated brass  
 CW617N UNI EN 12165/98  
**Ball:** Chromed brass  
 CW617N UNI EN 12165/98  
**Seat:** PTFE  
**O-ring:** FP (fluor carbon rubber)  
**Handle:** PVC coated steel  
**Nut:** Zinc-plated steel  
**Stem seal:** PTFE  
**Packing nut:** Brass  
 CW614N UNI EN 12164/98

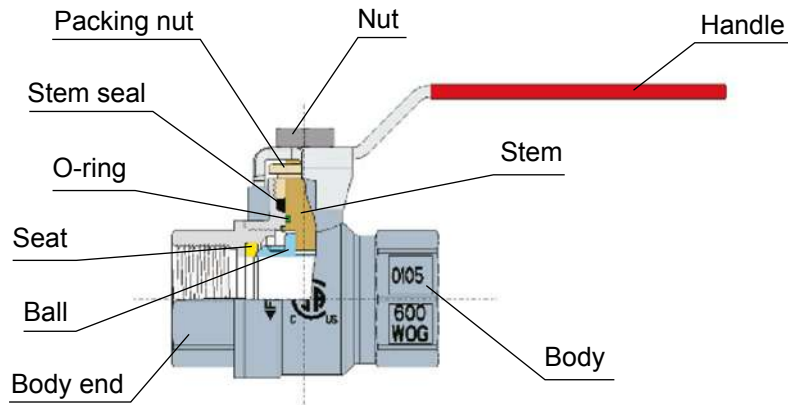


Products in compliance with EC Regulation 1907/2006

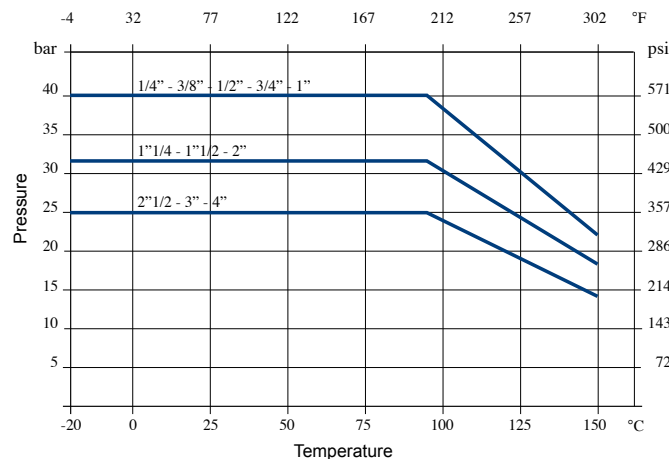


Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**PRESSURE-TEMPERATURE CHART**

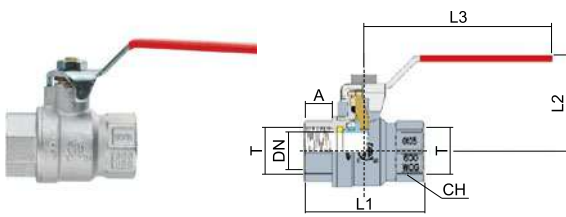


drawings and technical data are not binding & can be changed without notice



**9212**

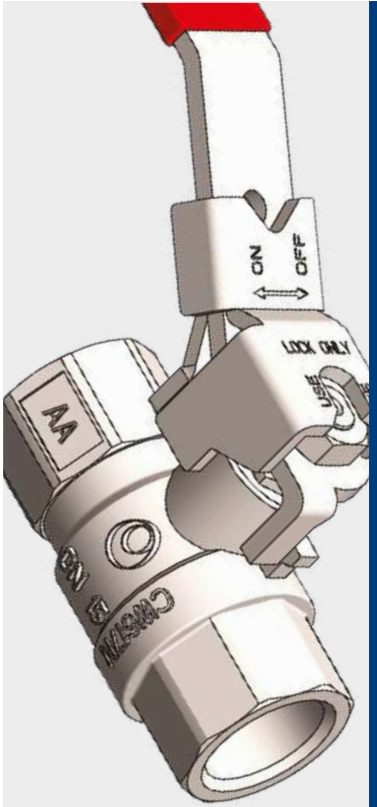
Universal full bore ball valve, female NPT thread, red lever



CODE	T	DN	A	L1	L2	L3	CH
9212TR14	N 1/4"	10	12	45,0	41,0	80,0	21
9212TR38	N 3/8"	10	12	45,0	41,0	80,0	21
9212TR12	N 1/2"	15	16	60,0	54,0	90,0	26
9212TR34	N 3/4"	20	17	67,0	58,0	90,0	31
9212TR1	N 1"	25	19,5	80,0	66,0	125,0	38
9212TR114	N 1-1/4"	32	21	89,0	71,0	125,0	48
9212TR112	N 1-1/2"	40	21	98,0	80,0	140,0	55
9212TR2	N 2"	50	22	112,0	88,0	140,0	68
9212TR212	N 2-1/2"	61	27,5	140,0	131,0	250,0	85
9212TR3	N 3"	74	30,5	159,0	140,0	250,0	99
9212TR4	N 4"	95	38	196,0	156,0	250,0	125







-20°C ÷ 160°C



**Working pressure:**

50 Bar (from 1/4" to 3/4")  
 40 Bar (from 1" to 1-1/4")  
 32 Bar (from 1-1/2" to 2")



Compressed air, hydrothermal systems and fluids suitable with construction materials



Parallel gas BSPP ISO 228-1 from G1/4" to G2"

**AVAILABILITY**

Ball available in stainless steel AISI 304 on request

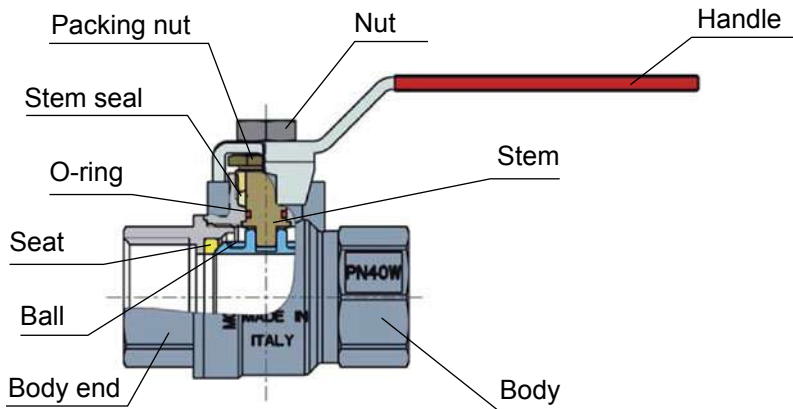
**FEATURES**

The anti blow-out system, found in the 9214 Series universal ball valves, guarantees greater protection against the accidental release of the stem and its sealing system.



- Body:** Nickel-plated brass CW617N UNI EN 12165/98
- Stem (anti blow-out):** Brass CW614N UNI EN 12164/98
- Body end:** Nickel-plated brass CW617N UNI EN 12165/98
- Ball:** Chromed brass CW617N UNI EN 12165/98
- Seat:** PTFE
- O-ring:** FKM
- Handle:** PVC coated steel
- Nut:** Zinc-plated steel
- Stem seal:** PTFE
- Packing nut:** Brass CW614N UNI EN 12164/98

**CONSTRUCTION DETAILS**



WRAS approved product



ACS approved product

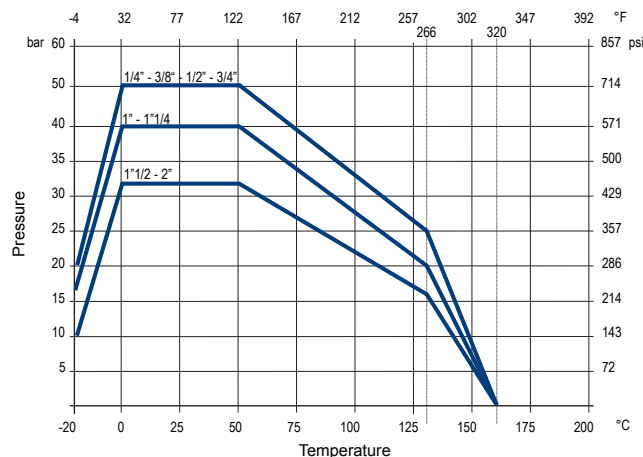


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**PRESSURE-TEMPERATURE CHART**

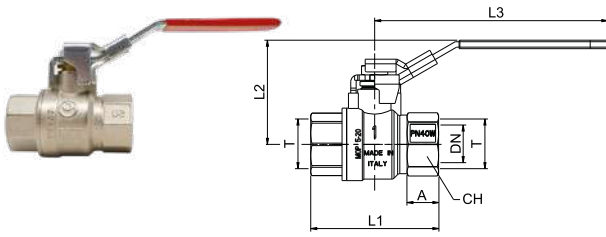


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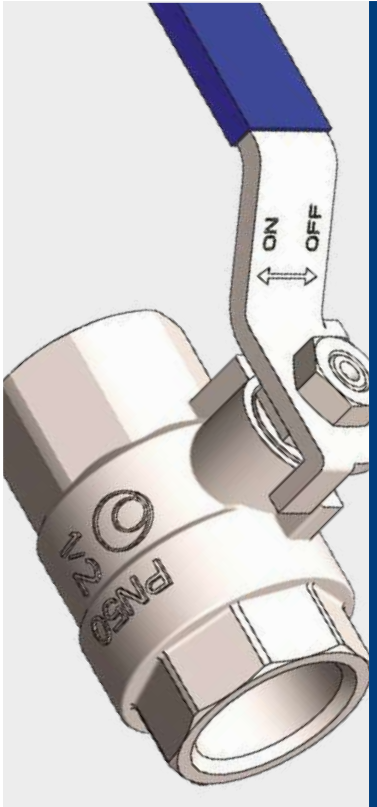
**9214**

Universal full bore lockable ball valve, female BSPP thread, red lever



CODE	T	DN	A	L1	L2	L3	CH
9214TR14	G 1/4"	10	12	45,0	43,0	95,0	21
9214TR38	G 3/8"	10	12	45,0	44,0	95,0	21
9214TR12	G 1/2"	15	17	63,0	56,0	120,0	26
9214TR34	G 3/4"	20	19,5	71,0	60,0	120,0	31
9214TR1	G 1"	25	21	83,0	68,0	150,0	38
9214TR114	G 1-1/4"	32	22	92,0	73,0	150,0	48
9214TR112	G 1-1/2"	40	23,5	104,0	87,0	160,0	55
9214TR2	G 2"	50	28	124,0	94,0	160,0	68





-20°C ÷ 150°C



**Working pressure:**

- 50 Bar (from 1/4" to 3/4")
- 40 Bar (from 1" to 1-1/4")
- 32 Bar (from 1-1/2" to 2")
- 16 Bar (from 2-1/2" to 4")

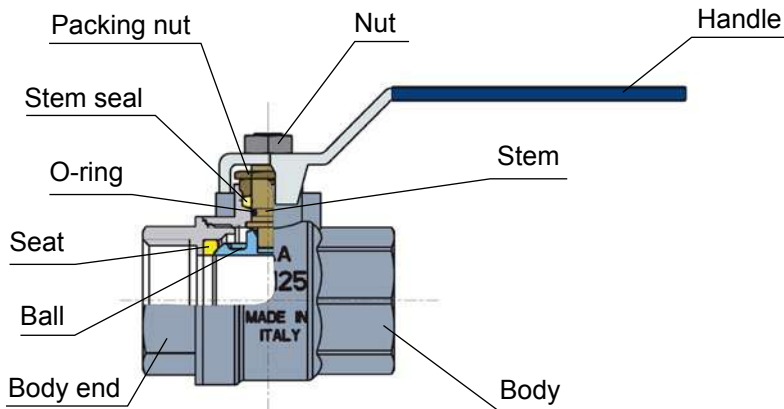


Compressed air, hydraulic, sanitary and fluids suitable with construction materials



Parallel gas BSPP ISO 228-1 from G1/4" to G4"

**CONSTRUCTION DETAILS**



WRAS approved product



ACS approved product

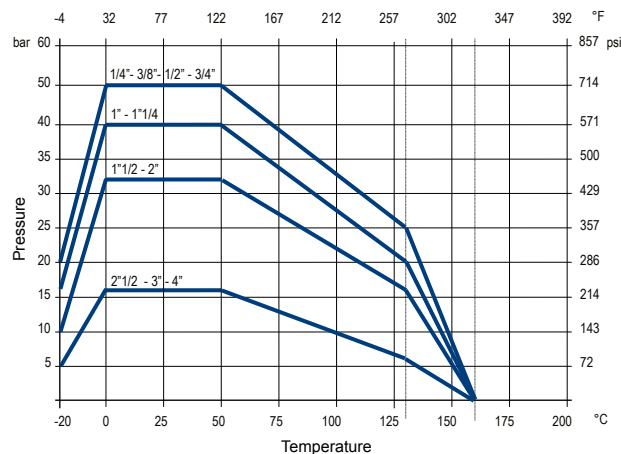


Products in compliance with EC Regulation 1907/2006



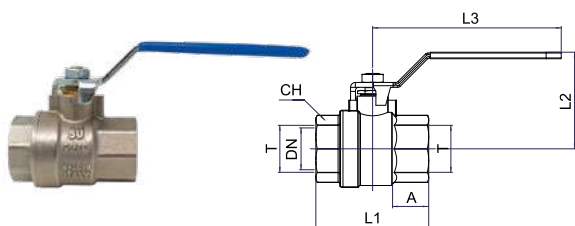
Products in compliance with the directive EU 2015/863

**PRESSURE-TEMPERATURE CHART**



**9210**

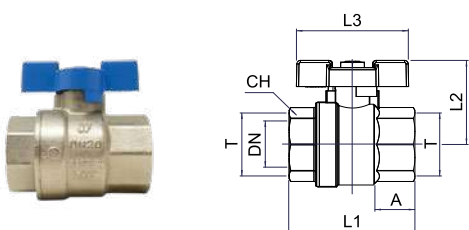
Universal full bore ball valve, female BSPP thread, blue lever



CODE	T	DN	A	L1	L2	L3	CH
9210TR14	G 1/4"	10	9,5	42,0	40,0	80,0	17
9210TR38	G 3/8"	10	10,5	44,0	40,0	80,0	20
9210TR12	G 1/2"	15	11	50,0	43,0	92,0	25
9210TR34	G 3/4"	20	13	57,0	47,0	92,0	31
9210TR1	G 1"	25	15	70,0	59,0	115,0	38
9210TR114	G 1-1/4"	32	17	80,0	64,0	115,0	47
9210TR112	G 1-1/2"	40	18	90,0	75,0	150,0	54
9210TR2	G 2"	50	20	107,0	82,0	150,0	66
9210TR212	G 2-1/2"	60	22	132,0	108,0	200,0	84
9210TR3	G 3"	74	26	151,0	117,0	250,0	96
9210TR4	G 4"	94	30	179,0	154,0	250,0	123

**9240**

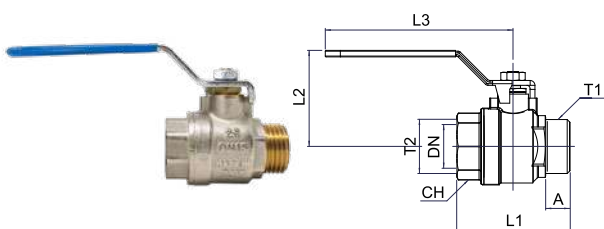
Universal full bore ball valve, female BSPP thread, blue butterfly lever



CODE	T	DN	A	L1	L2	L3	CH
9240TR14	G 1/4"	10	9,5	42,0	33,0	50,0	17
9240TR38	G 3/8"	10	10,5	44,0	33,0	50,0	20
9240TR12	G 1/2"	15	11	50,0	37,0	50,0	25
9240TR34	G 3/4"	20	13	57,0	40,0	50,0	31
9240TR1	G 1"	25	15	70,0	47,0	61,0	38
9240TR114	G 1-1/4"	32	17	80,0	52,0	61,0	47

**9220**

Universal full bore ball valve, M/F BSPP thread, blue lever

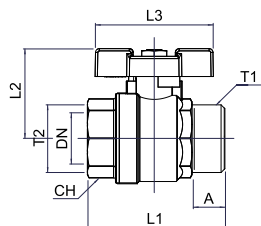


CODE	T1	T2	DN	A	L1	L2	L3	CH
9220TR14	G 1/4"	G 1/4"	10	10	43,5	40,0	80,0	17
9220TR38	G 3/8"	G 3/8"	10	10	45,0	40,0	80,0	20
9220TR12	G 1/2"	G 1/2"	15	10,5	50,0	43,0	92,0	25
9220TR34	G 3/4"	G 3/4"	20	13	58,0	47,0	92,0	31
9220TR1	G 1"	G 1"	25	15	70,0	59,0	115,0	38
9220TR114	G 1-1/4"	G 1-1/4"	32	17	81,0	64,0	115,0	47
9220TR112	G 1-1/2"	G 1-1/2"	40	18	91,0	75,0	150,0	54
9220TR2	G 2"	G 2"	50	20	107,0	82,0	150,0	66



## 9250

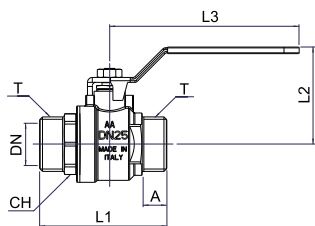
Universal full bore ball valve, M/F BSPP thread, blue butterfly lever



CODE	T1	T2	DN	A	L1	L2	L3	CH
9250TR14	G 1/4"	G 1/4"	10	10	43,5	40,0	50,0	17
9250TR38	G 3/8"	G 3/8"	10	10	45,0	40,0	50,0	20
9250TR12	G 1/2"	G 1/2"	15	10,5	50,0	43,0	50,0	25
9250TR34	G 3/4"	G 3/4"	20	13	58,0	47,0	50,0	31
9250TR1	G 1"	G 1"	25	15	70,0	59,0	61,0	38
9250TR114	G 1-1/4"	G 1-1/4"	32	17	81,0	64,0	61,0	47

## 9230

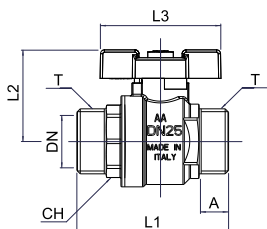
Universal full bore ball valve, male BSPP thread, blue lever



CODE	T	DN	A	L1	L2	L3	CH
9230TR14	G 1/4"	10	10	52,0	40,0	80,0	18
9230TR38	G 3/8"	10	10	52,0	40,0	80,0	18
9230TR12	G 1/2"	15	10,5	58,0	43,0	92,0	18
9230TR34	G 3/4"	20	13	66,0	47,0	92,0	28
9230TR1	G 1"	25	15	78,0	59,0	115,0	37
9230TR114	G 1-1/4"	32	17	91,0	64,0	115,0	44
9230TR112	G 1-1/2"	40	18	102,0	75,0	150,0	49
9230TR2	G 2"	50	20	118,0	82,0	150,0	63

## 9260

Universal full bore ball valve, male BSPP thread, blue butterfly lever



CODE	T	DN	A	L1	L2	L3	CH
9260TR14	G 1/4"	10	10	52,0	40,0	50,0	18
9260TR38	G 3/8"	10	10	52,0	40,0	50,0	18
9260TR12	G 1/2"	15	10,5	58,0	43,0	50,0	18
9260TR34	G 3/4"	20	13	66,0	47,0	50,0	28
9260TR1	G 1"	25	15	78,0	59,0	61,0	37



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 -20°C ÷ 160°C

**Working pressure:**  
 50 Bar (from 1/4" to 3/4")  
 40 Bar (from 1" to 1-1/4")  
 32 Bar (from 1-1/2" to 2")  
 25 Bar (from 2-1/2" to 4")

 Compressed air, hydrothermal systems and fluids suitable with construction materials

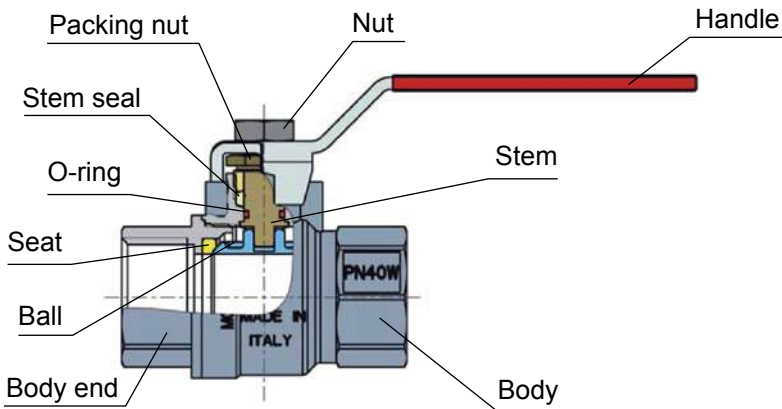
 Parallel gas BSPP ISO 228-1 from G1/4" to G4"

**AVAILABILITY**

Ball available in stainless steel AISI 304 on request

- Body:** Nickel-plated brass  
CW617N UNI EN 12165/98
- Stem (anti blow-out):** Brass  
CW614N UNI EN 12164/98
- Body end:** Nickel-plated brass  
CW617N UNI EN 12165/98
- Ball:** Chromed brass  
CW617N UNI EN 12165/98
- Seat:** PTFE
- O-ring:** FKM
- Handle:** PVC coated steel
- Nut:** Zinc-plated steel
- Stem seal:** PTFE
- Packing nut:** Brass  
CW614N UNI EN 12164/98

**CONSTRUCTION DETAILS**



WRAS approved product



ACS approved product

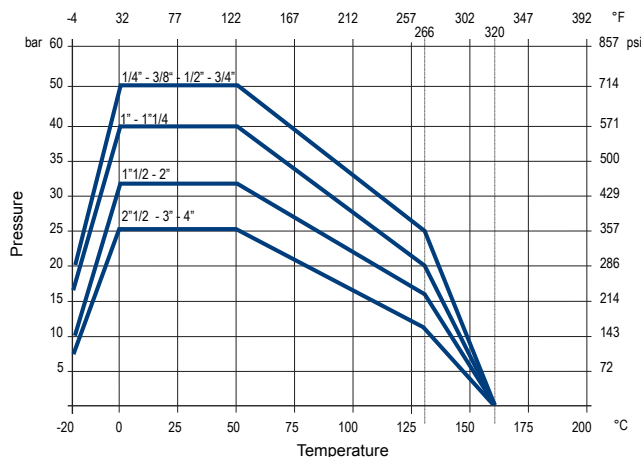


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**PRESSURE-TEMPERATURE CHART**

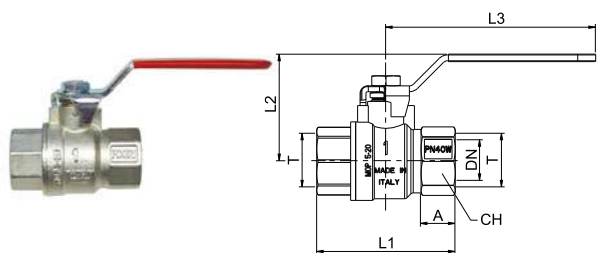


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**9210H**

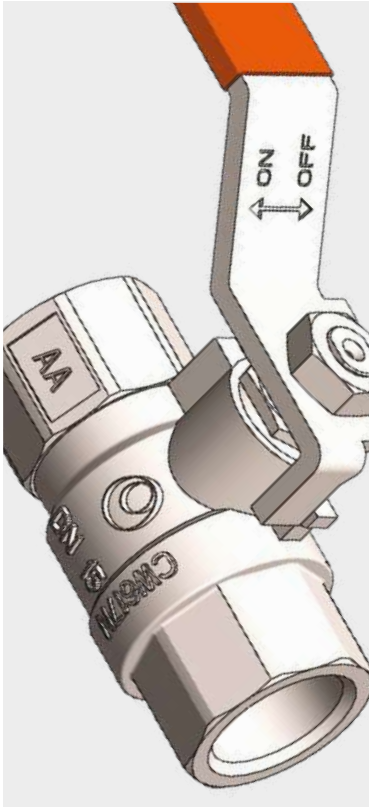
Universal full bore ball valve heavy series, female BSPP thread, red lever



CODE	T	DN	A	L1	L2	L3	CH
9210TRH14	G 1/4"	10	12	45,0	40,0	80,0	21
9210TRH38	G 3/8"	10	12	45,0	40,0	80,0	21
9210TRH12	G 1/2"	15	17	63,0	52,0	90,0	26
9210TRH34	G 3/4"	20	19,5	71,0	55,0	90,0	31
9210TRH1	G 1"	25	21	83,0	64,0	125,0	38
9210TRH114	G 1-1/4"	32	22	92,0	69,0	125,0	48
9210TRH112	G 1-1/2"	40	23,5	104,0	78,0	140,0	55
9210TRH2	G 2"	50	28	124,0	85,0	140,0	68
9210TRH212	G 2-1/2"	60	28	140,0	131,0	250,0	85
9210TRH3	G 3"	74	30,5	159,0	140,0	250,0	99
9210TRH4	G 4"	94	38	196,0	154,0	250,0	125







-30°C ÷ 180°C



Working pressure:

50 Bar (from 3/8" to 3/4")

40 Bar (from 1" to 1-1/4")

32 Bar (from 1-1/2" to 2")



Compressed air, hydraulic, sanitary and fluids suitable with construction materials



Parallel gas BSP ISO 228-1 from G3/8" to G2"



Body: Nickel-plated brass  
CW617N UNI EN 12165/98

Stem (anti blow-out): Brass

CW614N UNI EN 12164/98

Body end: Nickel-plated brass

CW617N UNI EN 12165/98

Ball: Chromed brass

CW617N UNI EN 12165/98

Seat: Graphite reinforced PTFE

O-ring: FP (Fluor carbon rubber)

Handle: PVC coated steel

Nut: Zinc-plated steel

Stem seal: Graphite reinforced PTFE

Packing nut: Brass

CW614N UNI EN 12164/98

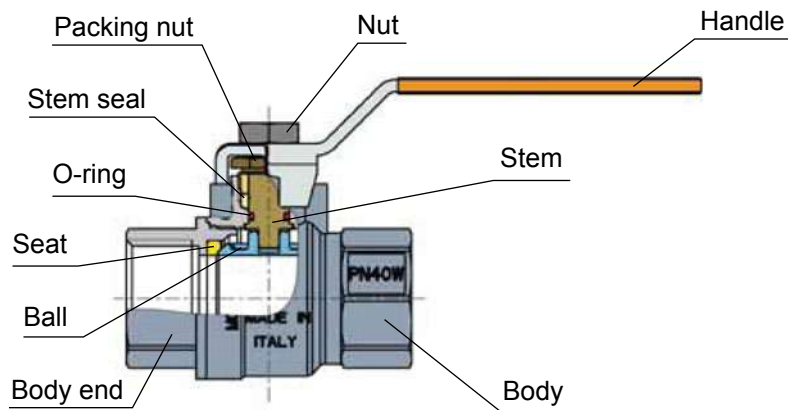


Products in compliance with EC Regulation 1907/2006

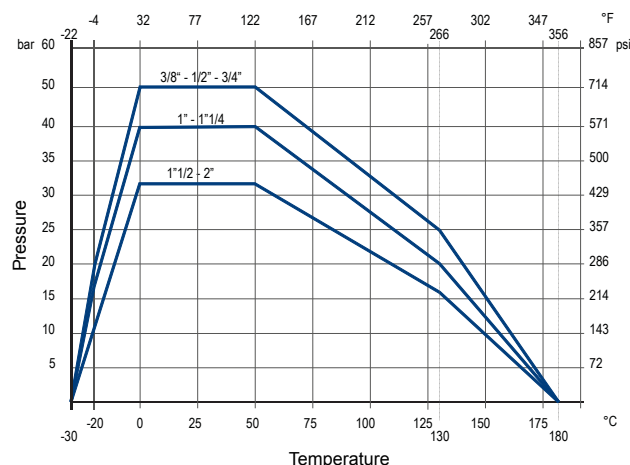


Products in compliance with the directive EU 2015/863

## CONSTRUCTION DETAILS



## PRESSURE-TEMPERATURE CHART

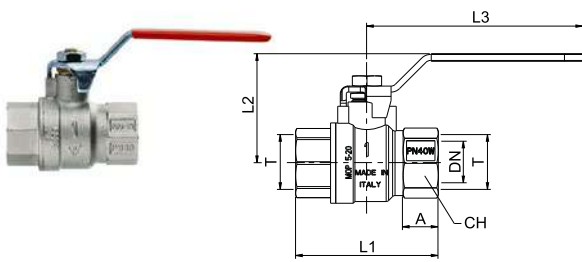


drawings and technical data are not binding & can be changed without notice



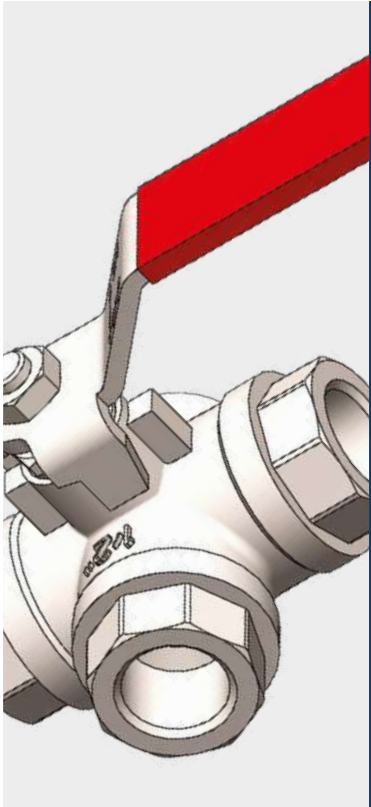
**9210HS**

Universal full bore ball valve heavy series, female BSPP thread, orange lever



CODE	T	DN	A	L1	L2	L3	CH
9210TRHS38	G 3/8"	10	12	45,0	41,0	80,0	21
9210TRHS12	G 1/2"	15	17	63,0	54,0	90,0	26
9210TRHS34	G 3/4"	20	19,5	71,0	58,0	90,0	31
9210TRHS1	G 1"	25	21	83,0	66,0	125,0	38
9210TRHS114	G 1-1/4"	32	22	92,0	71,0	125,0	48
9210TRHS112	G 1-1/2"	40	23,5	104,0	80,0	140,0	55
9210TRHS2	G 2"	50	28	124,0	88,0	140,0	68





9270 - 9280:  
-20°C ÷ 150°C  
9272 - 9282:  
-10°C ÷ 100°C



Working pressure:  
9270 - 9280  
32 Bar (from 1/4" to 1")  
25 Bar (from 1-1/4" to 2")  
9272 - 9282  
25 Bar (from 1/4" to 2")



Compressed air, hydraulic, sanitary, irrigation and fluids suitable with construction materials



Parallel gas BSPP ISO 228-1 from G1/4" to G2"



Body: Nickel-plated brass  
CW617N UNI EN 12165/98  
Stem: Brass  
CW614N UNI EN 12164/98  
Body end: Nickel-plated brass  
CW617N UNI EN 12165/98  
Ball: Chromed brass  
CW617N UNI EN 12165/98  
Seat: PTFE  
O-ring: FKM (9272 & 9282)  
Handle: PVC coated steel  
Nut: Zinc-plated steel  
Stem seal: PTFE  
Packing nut: Brass  
CW614N UNI EN 12164/98  
Indicator: Aluminium (9272 & 9282)



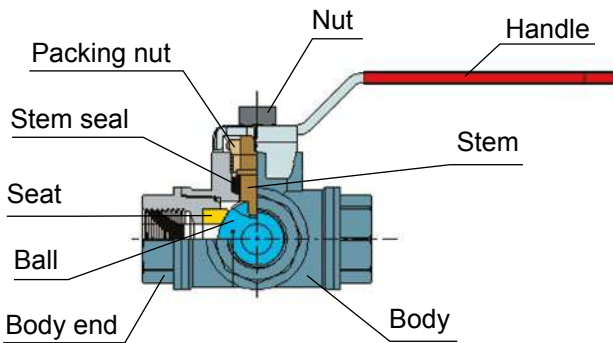
Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

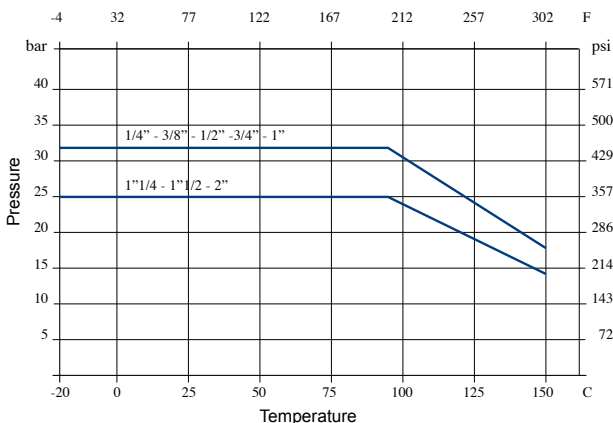
**CONSTRUCTION DETAILS**

9270 & 9280



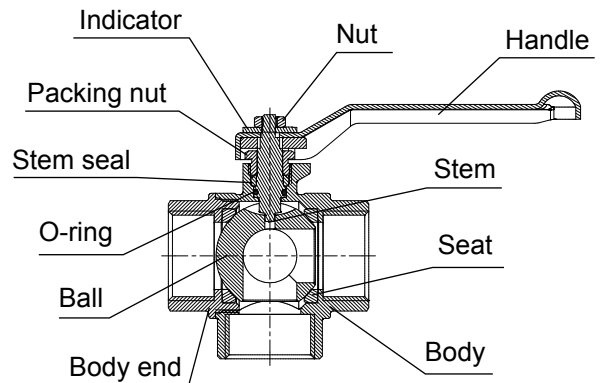
**PRESSURE-TEMPERATURE CHART**

9270 & 9280



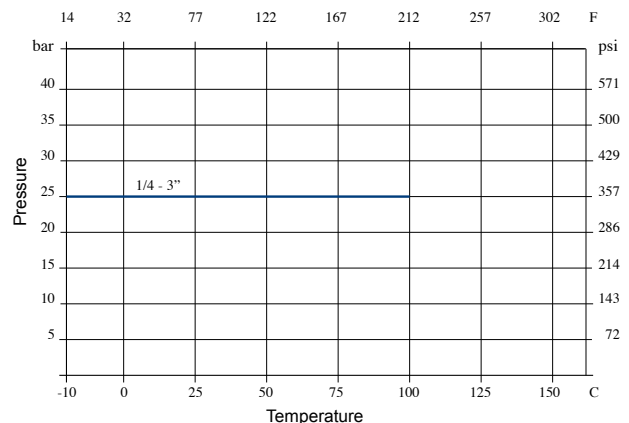
**CONSTRUCTION DETAILS**

9272 & 9282



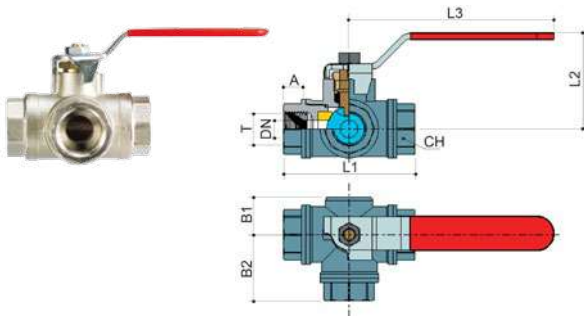
**PRESSURE-TEMPERATURE CHART**

9272 & 9282

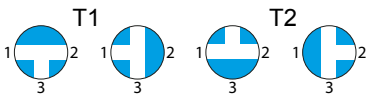


**9270**

Three-ways T port ball valve, reduced bore, female BSPP thread, red lever



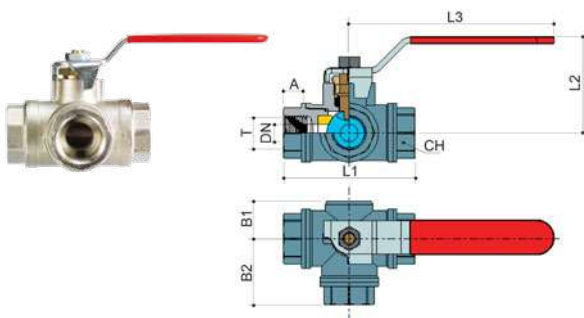
CODE	T	DN	A	B1	B2	L1	L2	L3	CH
9270TR14	G 1/4"	10	12	22	37	74,0	58,0	90,0	22
9270TR38	G 3/8"	10	12	22	37	74,0	58,0	90,0	22
9270TR12	G 1/2"	12	14	24	39	80,0	60,0	125,0	29
9270TR34	G 3/4"	15	16	28	46	90,0	64,0	125,0	34
9270TR1	G 1"	20	19	31	52	105,0	73,0	140,0	42
9270TR114	G 1-1/4"	25	21	35	58	115,0	79,0	140,0	50
9270TR112	G 1-1/2"	32	23	42	69	138,0	100,0	220,0	57
9270TR2	G 2"	40	26	48	80	161,0	105,0	220,0	68



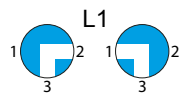
To obtain the "T2" configuration, unscrew the nut, remove the lever and rotate the ball 180°. Then replace the lever in the standard position.

**9280**

Three-ways L port ball valve, reduced bore, female BSPP thread, red lever

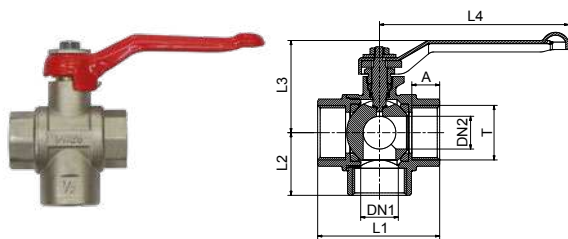


CODE	T	DN	A	B1	B2	L1	L2	L3	CH
9280TR14	G 1/4"	10	12	22	37	74,0	58,0	90,0	22
9280TR38	G 3/8"	10	12	22	37	74,0	58,0	90,0	22
9280TR12	G 1/2"	12	14	24	39	80,0	60,0	125,0	29
9280TR34	G 3/4"	15	16	28	46	90,0	64,0	125,0	34
9280TR1	G 1"	20	19	31	52	105,0	73,0	140,0	42
9280TR114	G 1-1/4"	25	21	35	58	115,0	79,0	140,0	50
9280TR112	G 1-1/2"	32	23	42	69	138,0	100,0	220,0	57
9280TR2	G 2"	40	26	48	80	161,0	105,0	220,0	68

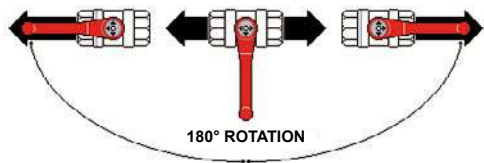


**9272**

Three-ways reduced bore T ball valve, female BSPP thread, red lever

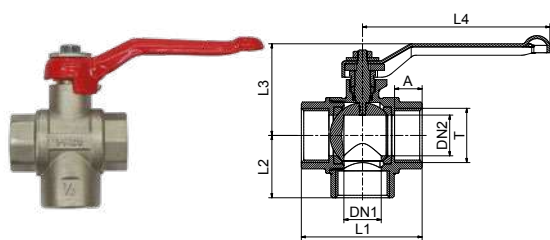


CODE	T	DN1	DN2	A	L1	L2	L3	L4
9272TR14	G 1/4"	10	10	14	53,0	31,0	48,0	92,0
9272TR38	G 3/8"	10	10	14	53,0	31,0	48,0	92,0
9272TR12	G 1/2"	10	10	14	55,0	31,0	48,0	92,0
9272TR34	G 3/4"	15	15	16	66,0	34,0	50,0	92,0
9272TR1	G 1"	20	20	17	74,0	38,0	55,0	115,0
9272TR114	G 1-1/4"	25	25	18	85,0	46,0	68,0	150,0
9272TR112	G 1-1/2"	32	32	19	97,0	53,0	73,0	150,0
9272TR2	G 2"	40	40	21	109,0	62,0	79,0	150,0

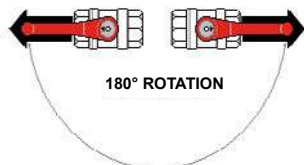


**9282**

Three-ways reduced bore L ball valve, female BSPP thread, red lever



CODE	T	DN1	DN2	A	L1	L2	L3	L4
9282TR14	G 1/4"	10	10	14	53,0	31,0	48,0	92,0
9282TR38	G 3/8"	10	10	14	53,0	31,0	48,0	92,0
9282TR12	G 1/2"	12	12	14	55,0	31,0	48,0	92,0
9282TR34	G 3/4"	18	20	16	66,0	34,0	50,0	92,0
9282TR1	G 1"	23	25	17	74,0	38,0	55,0	115,0
9282TR114	G 1-1/4"	30	32	18	85,0	46,0	68,0	150,0
9282TR112	G 1-1/2"	37	39	19	97,0	53,0	73,0	150,0
9282TR2	G 2"	46	48	21	109,0	62,0	79,0	150,0



 **TierreGroup**<sup>®</sup>  
Always a fittings solution

**NON È  
UN CASTELLO DI CARTE**

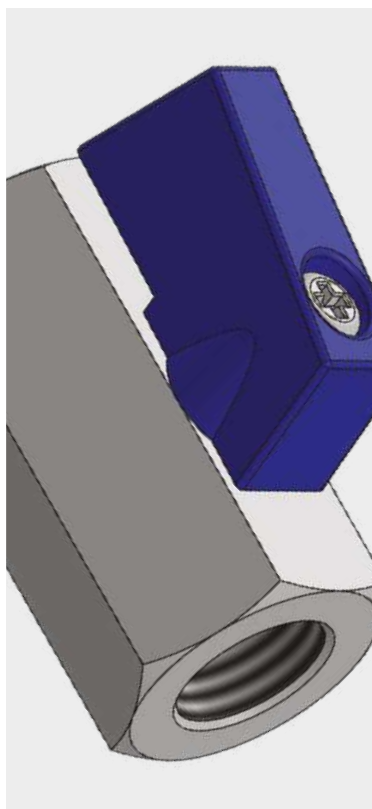


#TIERREHEART

 **TierreGroup**<sup>®</sup>

**FOLLOW US!**





-20°C ÷ 140°C



Working pressure:  
69 Bar



Compressed air and fluids  
suitable with construction  
materials



- Taper gas BSPT ISO 7-1  
from R1/8" to R1"
- Parallel gas BSPP ISO 228-1  
from G1/8" to G1"

**LEVER ROTATION**

90° rotation of the lever



- Body: Stainless steel CF8M
- Locking nut: Stainless steel AISI 316
- Ball: Stainless steel AISI 316
- Stem (anti blow-out): Stainless steel AISI 316
- Ball seal: PTFE
- O-ring: NBR
- Lever: Aluminium
- Screw: Stainless steel AISI 304



Food contact materials  
EC 1935/2004



D.M. 174/2004

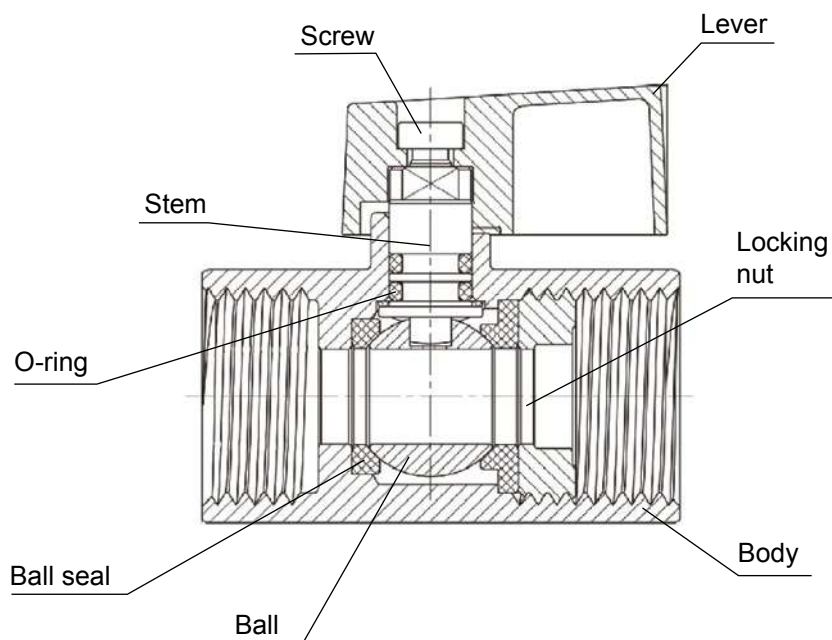


Products in compliance with  
EC Regulation 1907/2006



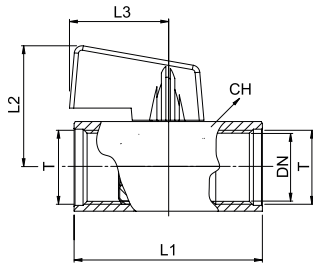
Products in compliance with  
the directive EU 2015/863

**CONSTRUCTION DETAILS**



**9170**

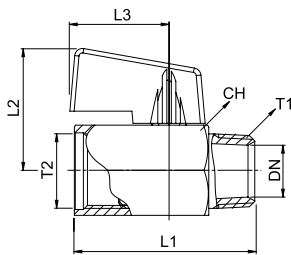
Female mini ball valve BSPP thread



CODE	T	DN	L1	L2	L3	CH
9170TR18	G 1/8"	5	39,0	26,5	23,0	21
9170TR14	G 1/4"	7	42,0	26,5	23,0	21
9170TR38	G 3/8"	7	42,0	26,5	23,0	21
9170TR12	G 1/2"	9,2	46,0	29,0	23,0	24,5
9170TR34	G 3/4"	12,5	54,0	32,0	23,0	31
9170TR1	G 1"	15	64,5	35,0	23,0	36

**9180**

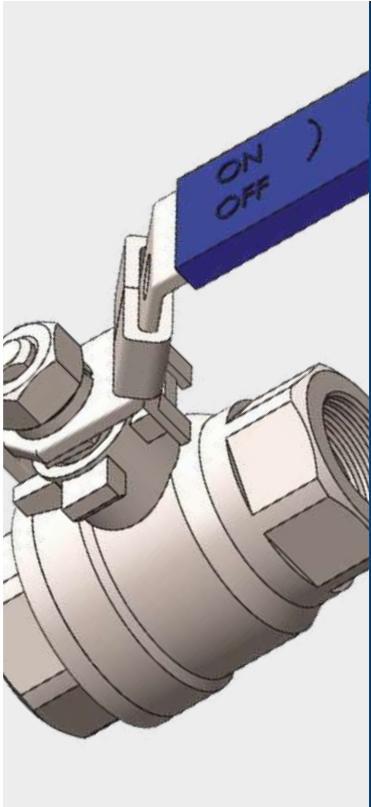
Mini ball valve, male BSPT and female BSPP threads



CODE	T1	T2	DN	L1	L2	L3	CH
9180TR18	R 1/8"	G 1/8"	5	39,0	26,5	23,0	21
9180TR14	R 1/4"	G 1/4"	7	40,0	26,5	23,0	21
9180TR38	R 3/8"	G 3/8"	7	40,0	26,5	23,0	21
9180TR12	R 1/2"	G 1/2"	9,2	46,0	29,0	23,0	24,5
9180TR34	R 3/4"	G 3/4"	12,5	54,0	32,0	23,0	31
9180TR1	R 1"	G 1"	15	64,5	35,0	23,0	36







-25°C ÷ 180°C



**Working pressure:**  
 85 Bar (from 1/4" to 1")  
 70 Bar (from 1-1/4" to 1-1/2")  
 63 Bar (from 2" to 4")



Industrial, chemical and food installations



Parallel gas BSP ISO 228-1 from G1/4" to G4"

**AVAILABILITY**

Available with NPT thread on request

- Body: Stainless steel AISI 316
- Stem: Stainless steel AISI 316
- Body end: Stainless steel AISI 316
- Ball: Stainless steel AISI 316
- Seat: PTFE
- Handle: Stainless steel AISI 316
- Nut: Stainless steel AISI 316
- Stem seal: PTFE
- Seal: PTFE
- Packing nut: Stainless steel AISI 316
- Locking: Stainless steel AISI 316

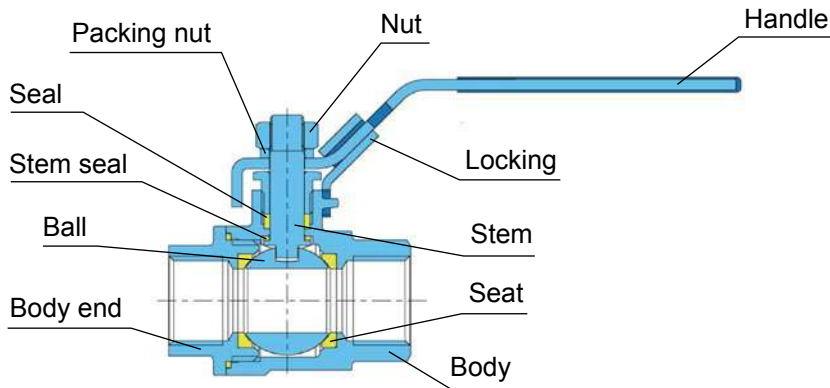


Products in compliance with EC Regulation 1907/2006

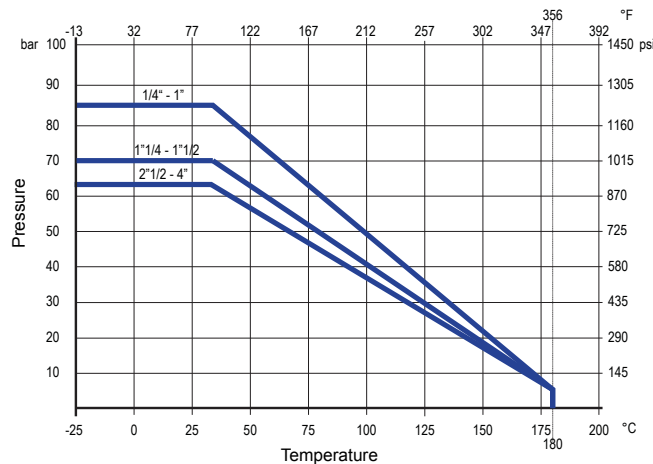


Products in compliance with the directive EU 2015/863

**CONSTRUCTION DETAILS**



**PRESSURE-TEMPERATURE CHART**

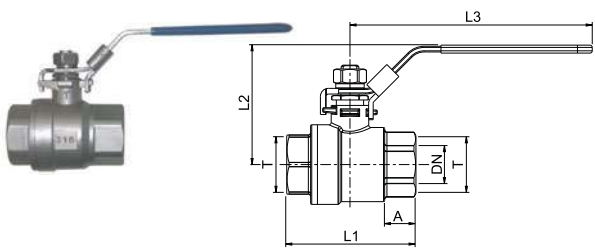


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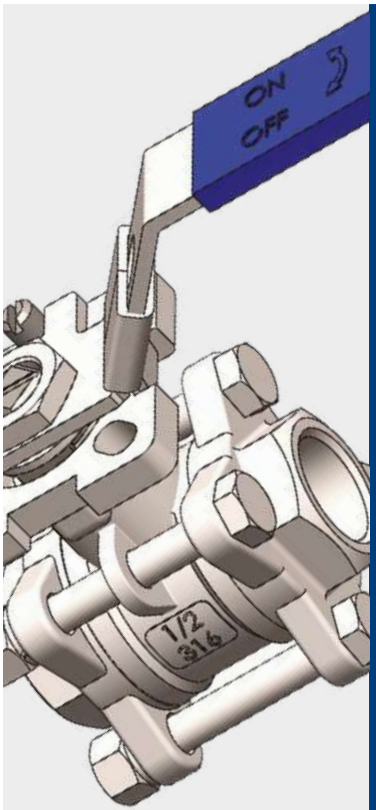
**9320**

## Universal full bore ball valve, female BSPP thread, blue lever



CODE	T	DN	A	L1	L2	L3
9320TR14	G 1/4"	11,5	9,5	49,0	54,0	105,0
9320TR38	G 3/8"	12,5	11	49,0	54,0	105,0
9320TR12	G 1/2"	15	12,5	57,0	56,0	105,0
9320TR34	G 3/4"	20	14	64,0	65,0	118,0
9320TR1	G 1"	25	16	77,0	70,0	150,0
9320TR114	G 1-1/4"	30	18	90,0	75,0	150,0
9320TR112	G 1-1/2"	40	19	105,0	93,0	182,0
9320TR2	G 2"	50	24	125,0	99,0	182,0
9320TR212	G 2-1/2"	65	26	153,0	123,0	254,0
9320TR3	G 3"	76	31	172,0	140,0	254,0
9320TR4	G 4"	94	48	221,0	175,0	285,0





-40°C ÷ 220°C



**Working pressure:**

85 Bar (from 1/4" to 1")

70 Bar (from 1-1/4" to 1-1/2")

65 Bar (from 2" to 4")



Industrial, chemical and food installations



Taper gas BSPT ISO 7/1  
from R1/4" to R4"

#### FLANGE

ISO 5211 flange

#### AVAILABILITY

Available with NPT thread on request

Body: Stainless steel AISI 316

Stem: Stainless steel AISI 316

Body end: Stainless steel AISI 316

Ball: Stainless steel AISI 316

Seat: PTFE 15% glassfiber

Handle: Stainless steel AISI 304  
PVC coated



Nut: Stainless steel AISI 304

Stem seal: PTFE

Body seal: PTFE

Washer: PTFE

Packing nut: Stainless steel  
AISI 304

Locking: Stainless steel AISI 304

Stop pin: Stainless steel AISI 304

Bolt: Stainless steel AISI 304

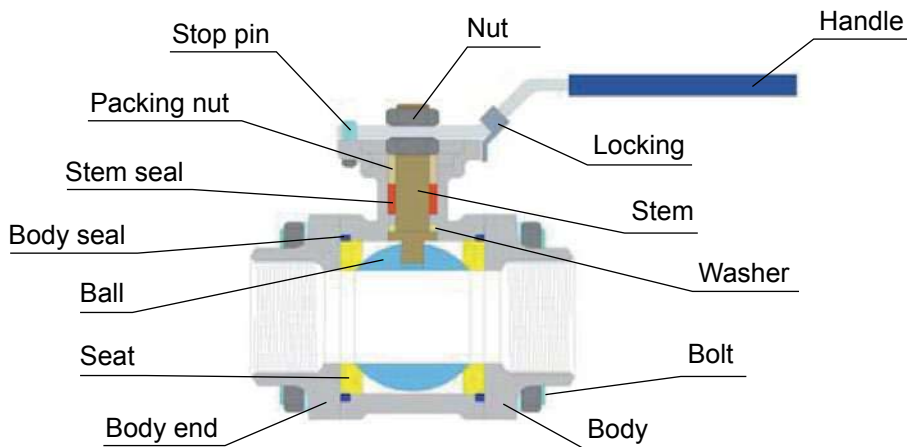


Products in compliance with  
EC Regulation 1907/2006

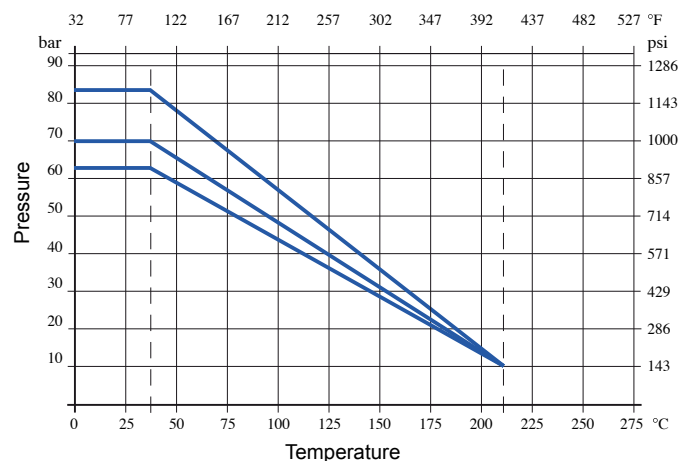


Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



## PRESSURE-TEMPERATURE CHART

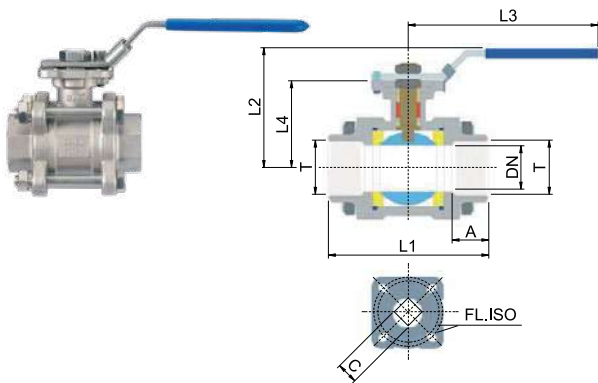


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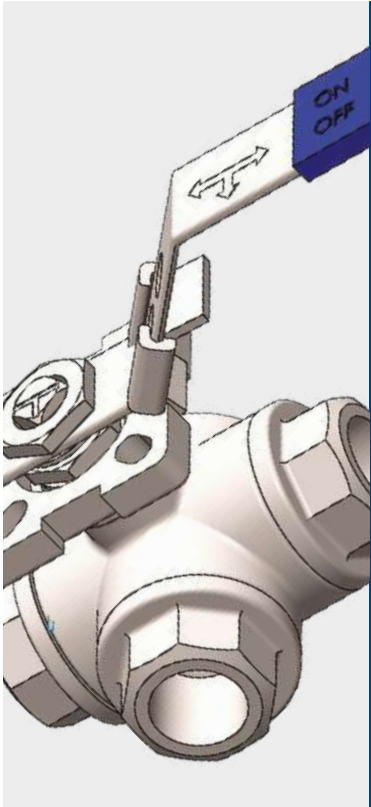
**9325**

Three pieces full bore universal ball valve, female BSPT thread, blue lever



CODE	T	DN	A	L1	L2	L3	L4	C	FL.ISO	N/m
9325TR14	R 1/4"	11	10	48,0	60,0	117,0	32,5	9	F03	4
9325TR38	R 3/8"	12,7	11	48,0	60,0	117,0	32,5	9	F03	4
9325TR12	R 1/2"	15	15	55,0	65,0	117,0	37,1	9	F03/04	5
9325TR34	R 3/4"	20	16	74,0	72,0	135,0	42,2	11	F04/05	8
9325TR1	R 1"	25	19	81,0	75,0	140,0	45,0	11	F04/05	10
9325TR114	R 1-1/4"	32	21	91,0	90,0	203,0	54,0	14	F05/07	14
9325TR112	R 1-1/2"	40	21	103,0	95,0	203,0	59,5	14	F05/07	18
9325TR2	R 2"	50	25	120,0	105,0	203,0	68,0	14	F05/07	25
9325TR212	R 2-1/2"	65	30	151,0	140,0	260,0	100,0	17	F07/10	48
9325TR3	R 3"	80	33	182,0	165,0	260,0	112,5	17	F07/10	75
9325TR4	R 4"	100	39	220,0	170,0	280,0	125,5	17	F07/10	110





-50°C ÷ 250°C



Working pressure:

83 Bar (from 1/4" to 1")  
69 Bar (from 1-1/4" to 1-1/2")  
63 Bar (2")



Industrial, chemical and food installations



Parallel gas BSPP  
UNI EN 10226-1  
from G1/4" to G2"

#### FLANGE

ISO 5211 flange

Body: Stainless steel AISI 316  
Stem: Stainless steel AISI 316  
Body end: Stainless steel AISI 316  
Ball: Stainless steel AISI 316  
Seat: PTFE  
Handle: Stainless steel AISI 304  
PVC coated  
Nut: Stainless steel AISI 304  
Stem seal: PTFE  
Seal: PTFE  
O-ring: Viton  
Packing nut: Stainless steel  
AISI 316  
Locking: Stainless steel AISI 304  
Stop pin: Stainless steel AISI 304

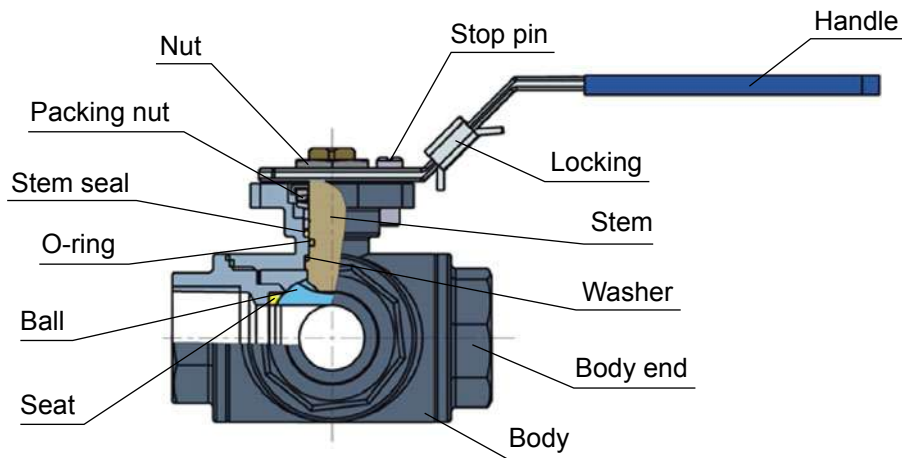


Products in compliance with  
EC Regulation 1907/2006

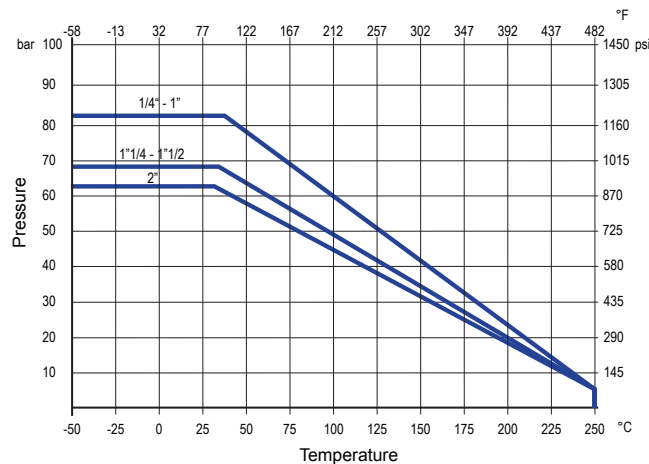


Products in compliance with  
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## CONSTRUCTION DETAILS



## PRESSURE-TEMPERATURE CHART

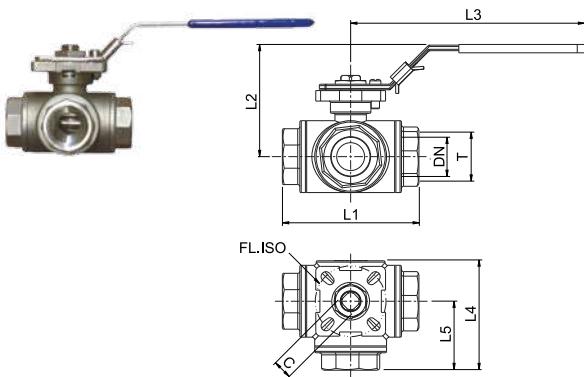


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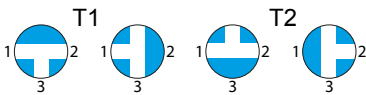


**9340**

Three-ways T port ball valve, reduced bore, female BSPP thread, blue lever

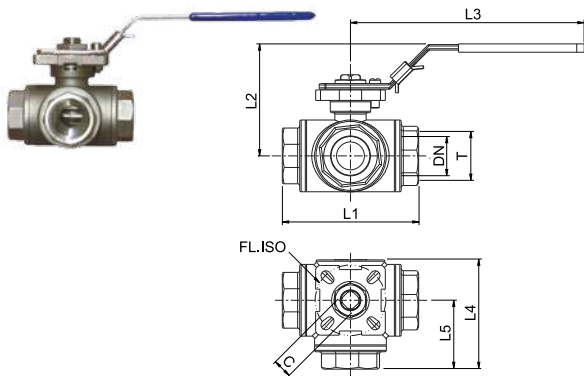


CODE	T	DN	L1	L2	L3	L4	L5	C	FL.ISO
9340TR14	G 1/4"	9,5	75,0	66,0	130,0	57,5	37,5	9	F03/04
9340TR38	G 3/8"	11	75,0	66,0	130,0	57,5	37,5	9	F03/04
9340TR12	G 1/2"	12	75,0	66,0	130,0	57,5	37,5	9	F03/04
9340TR34	G 3/4"	15	85,0	72,0	161,0	65,5	42,5	11	F04/05
9340TR1	G 1"	20	100,0	77,0	161,0	79,0	50,0	11	F04/05
9340TR114	G 1-1/4"	25	122,0	92,0	203,0	97,0	61,0	14	F05/07
9340TR112	G 1-1/2"	32	131,0	96,0	203,0	106,5	65,5	14	F05/07
9340TR2	G 2"	40	158,0	107,0	203,0	129,0	79,0	14	F05/07

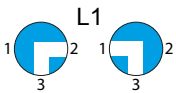


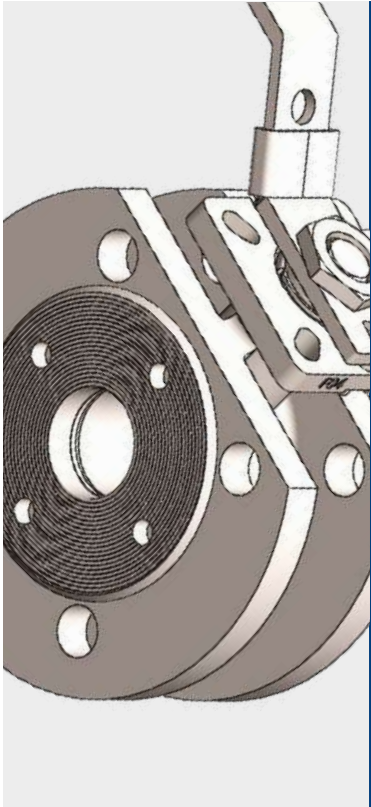
**9342**

Three-ways L port ball valve, reduced bore, female BSPP thread, blue lever



CODE	T	DN	L1	L2	L3	L4	L5	C	FL.ISO
9342TR14	G 1/4"	9,5	75,0	66,0	130,0	57,5	37,5	9	F03/04
9342TR38	G 3/8"	11	75,0	66,0	130,0	57,5	37,5	9	F03/04
9342TR12	G 1/2"	12	75,0	66,0	130,0	57,5	37,5	9	F03/04
9342TR34	G 3/4"	15	85,0	72,0	161,0	65,5	42,5	11	F04/05
9342TR1	G 1"	20	100,0	77,0	161,0	79,0	50,0	11	F04/05
9342TR114	G 1-1/4"	25	122,0	92,0	203,0	97,0	61,0	14	F05/07
9342TR112	G 1-1/2"	32	131,0	96,0	203,0	106,5	65,5	14	F05/07
9342TR2	G 2"	40	158,0	107,0	203,0	129,0	79,0	14	F05/07





-25°C ÷ 180°C



**Working pressure:**  
40 Bar (DN 15 - 100)  
16 Bar (DN 125 - 150)



Fluids suitable with construction materials

#### STEM

Stem with flat head ISO 5211

#### FLANGE

- ISO 5211 flange
- Attacchi flangiati PN 16
- Flanged ends UNI EN 1092

Body: Stainless steel AISI 316  
Stem: Stainless steel AISI 316  
Ball: Stainless steel AISI 316  
Seat: PTFE 15% glassfiber  
Handle: Stainless steel AISI 304  
PVC coated  
Nut: Stainless steel AISI 304  
Seal: PTFE  
O-ring: FKM  
Washer: Stainless steel AISI 304  
Spring: Stainless steel AISI 301  
Stop pin: Stainless steel AISI 304  
Locking: Stainless steel AISI 304  
Flange: Stainless steel AISI 316

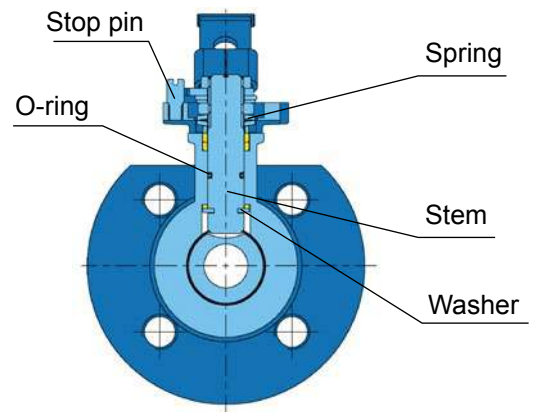
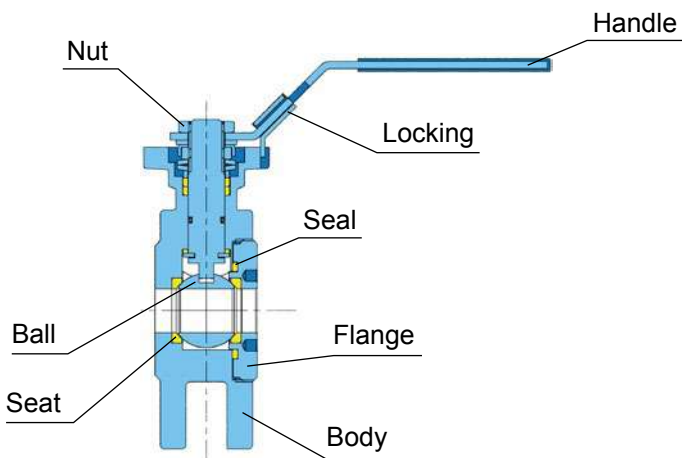


Products in compliance with EC Regulation 1907/2006

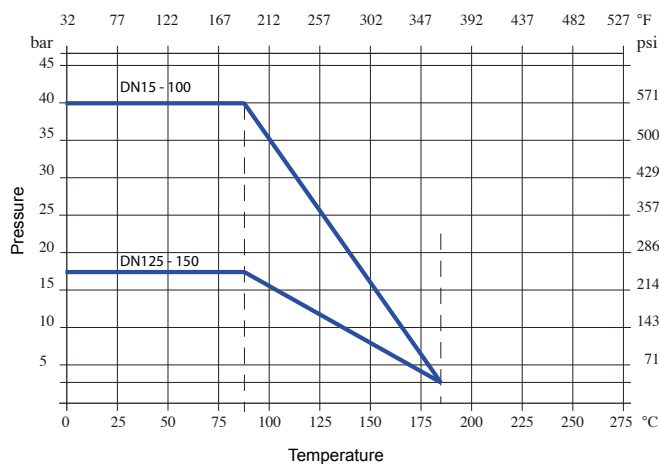


Products in compliance with the directive EU 2015/863

## CONSTRUCTION DETAILS



## PRESSURE-TEMPERATURE CHART

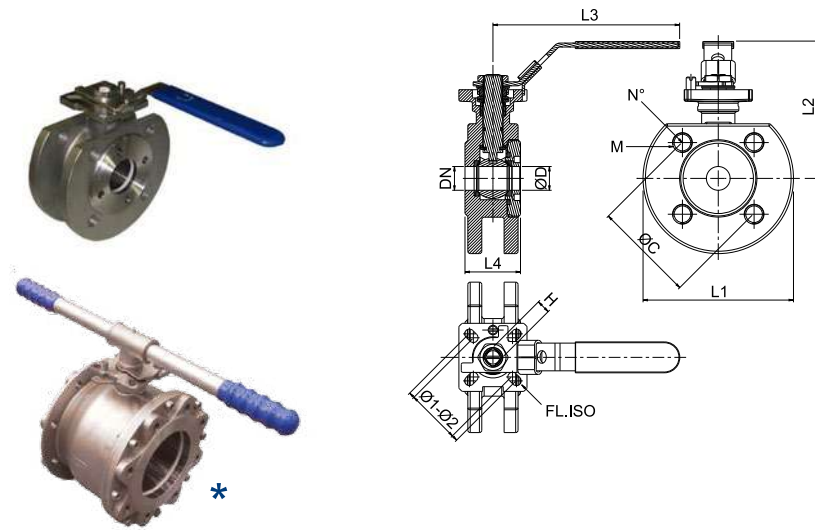


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9350

Flanged flat body ball valve, blue lever



CODE	DN	ØD	M	N°	ØC	L1	L2	L3	L4	H	Ø1-Ø2	FL.ISO
9350TR12	15	15	M12	4	65	85,0	89,0	115,0	36,0	9	36-42	F03/04
9350TR34	20	20	M12	4	75	105,0	94,0	115,0	38,0	9	36-42	F03/04
9350TR1	25	25	M12	4	85	115,0	90,0	140,0	50,0	11	42-50	F04/05
9350TR114	32	32	M16	4	100	140,0	100,0	140,0	53,0	11	42-50	F04/05
9350TR112	40	40	M16	4	110	150,0	115,0	200,0	65,0	14	50-70	F05/07
9350TR2	50	50	M16	4	125	165,0	125,0	200,0	78,0	14	50-70	F05/07
9350TR212	65	65	M16	4	145	185,0	140,0	255,0	98,0	17	70-102	F07/10
9350TR3	80	76	M16	8	160	200,0	145,0	255,0	118,0	17	70-102	F07/10
9350TR4	100	94	M16	8	180	200,0	175,0	300,0	140,0	17	70-102	F07/10
9350TR5	125	125	M16	8	210	250,0	228,0	600,0	195,0	22	102-125	F10/12
9350TR6	150	150	M20	8	240	285,0	245,0	600,0	225,0	22	102-125	F10/12


\* Flanged flat body ball valve 9350TR5 and 9350TR6










 -25°C ÷ 180°C

 Working pressure:  
40 Bar

 Fluids suitable with construction materials

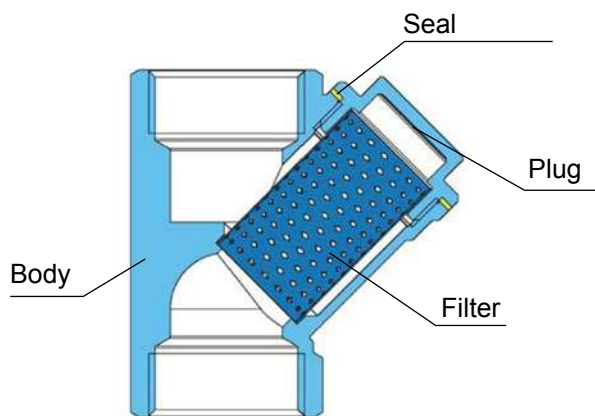
 Parallel gas BSPP ISO 228-1  
from G1/4" to G2"

 Body: Stainless steel AISI 316  
Filter: Stainless steel AISI 316  
Seal: PTFE  
Plug: Stainless steel AISI 316

  Products in compliance with  
EC Regulation 1907/2006

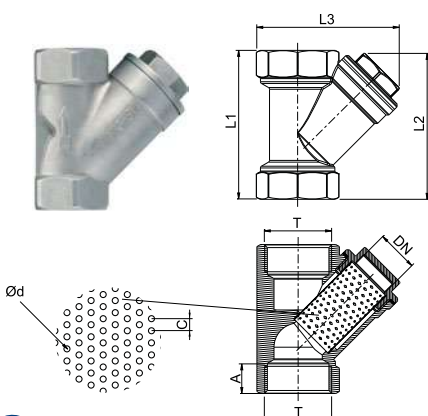
 Products in compliance with  
the directive EU 2015/863

### CONSTRUCTION DETAILS



## 9400

Full bore Y filter, female BSPP thread



CODE	T	DN	A	L1	L2	L3	Ød	C
9400TR14	G 1/4"	10	15	64,0	64,0	43,0	1	2
9400TR38	G 3/8"	12	15	64,0	64,0	43,0	1	2
9400TR12	G 1/2"	15	15	64,0	64,0	45,0	1	2
9400TR34	G 3/4"	20	16	80,0	81,0	52,0	1	2
9400TR1	G 1"	25	16	90,0	95,0	68,0	1	2
9400TR114	G 1-1/4"	32	22	106,0	106,0	70,0	1	2
9400TR112	G 1-1/2"	38	22	119,0	117,0	80,0	1	2
9400TR2	G 2"	50	26	140,0	138,0	98,0	1	2



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Always a fittings solution



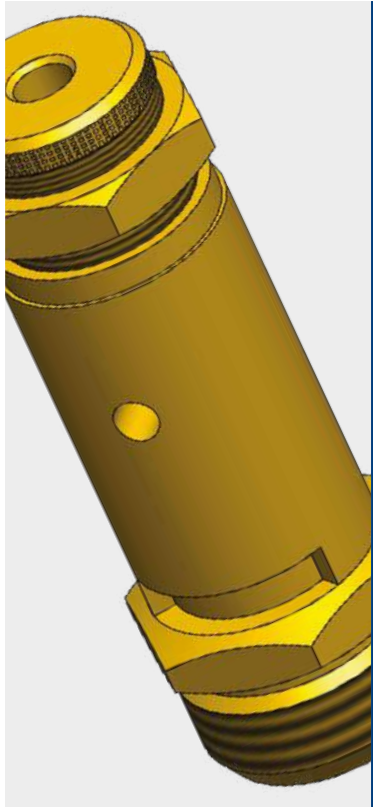
**Serie XVR in acciaio inox.  
Naturalmente resistente.**




**TierreGroup®**  
Always a fitting solution

**FOLLOW US!**





NBR:  $-10^{\circ}\text{C} \div 80^{\circ}\text{C}$   
FKM:  $-10^{\circ}\text{C} \div 200^{\circ}\text{C}$



Working pressure:  
Up to 20 Bar (9613 - 9614)  
Up to 50 Bar (9615)



9613: Compressed air and inert gases  
9614: Compressed air  
9615: Compressed air, refrigerants, saturated steam and inert gases



Parallel gas BSPP ISO 228  
from G1/4" to G1/2"

Body: Yellow brass  
EN 12164:98 CW614N

Pad: NBR or FKM

Shutter: Yellow brass

EN 12164:98 CW614N

Stem: EN 10263-2-4

Spring: EN 10270-1-DH

Regulation screw: Yellow brass

EN 12164:98 CW614N

Nut: Yellow brass

EN 12164:98 CW614N



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

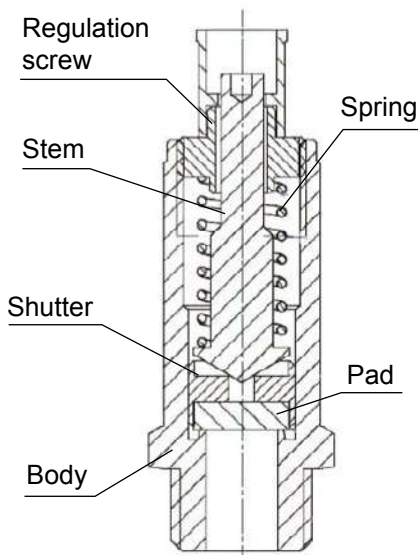
## FEATURES

Safety valves were created to protect the plant on which they are installed, from overpressure caused by the malfunction of one or more components of the system itself. Their function is to open up when the pressure accumulated inside the container goes above the calibration value of the valve itself until pressure drops below the calibration level.

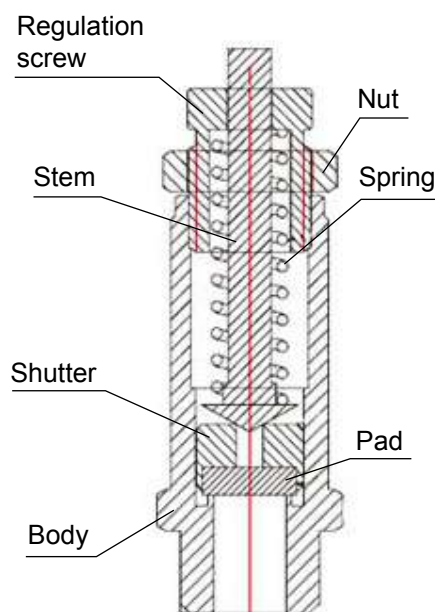
The materials used to construct this product and its size are suitable to pressure valves capacity, the temperature and the exhaust flow rate.

## CONSTRUCTION DETAILS

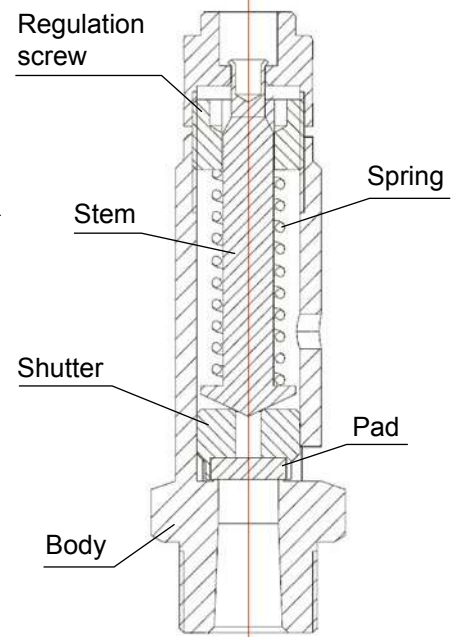
9613



9614

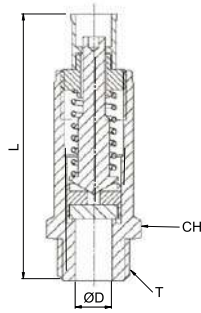


9615



9613

Calibrated safety valve



CODE	T	ØD (mm)	ØD AREA (mm)	CALIBRATION (Bar)	OVERPRESSURE FROM 0,5 TO 2 BAR (Bar)	OVERPRESSURE FROM 2 TO 18 BAR (Bar)	RE-CLOSING TRIPPING	L (mm)	CH (mm)
9613TR14	G 1/4"	6,8	36,3	0,5 - 18	0,2	10%	20%	50	15
9613TR38	G 3/8"	10,8	91,5	4 - 16	-	10%	20%	62	20
9613TR12	G 1/2"	10,8	91,5	4 - 16	-	10%	20%	63	22

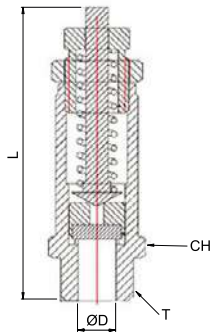
EXHAUST FLOW RATES FOR COMPRESSED AIR

	Bar	0,5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h
9613TR14	kg/h	24	42	63	85	106	127	148	169	190	211	232	254	275	296	317	338	358	379	400
	lt/m	311	548	822	1097	1371	1640	1913	2187	2456	2729	3002	3274	3547	3820	4093	4359	4616	4888	5159
9613TR38	kg/h	-	-	-	-	222	266	311	355	399	442	485	533	577	622	666	711	755	-	-
	lt/m	-	-	-	-	2864	3437	4010	4583	5148	5700	6260	6875	7448	8021	8594	9167	9740	-	-
9613TR12	kg/h	-	-	-	-	222	266	311	355	399	442	485	533	577	622	666	711	755	-	-
	lt/m	-	-	-	-	2864	3437	4010	4583	5148	5700	6260	6875	7448	8021	8594	9167	9740	-	-



## 9614

## Regulated safety valve



CODE	T	ØD (mm)	ØD AREA (mm)	CALIBRATION (Bar)	OVERPRESSURE FROM 0,5 TO 2 BAR (Bar)	OVERPRESSURE FROM 2 TO 18 BAR (Bar)	RE-CLOSING TRIPPING	L (mm)	CH (mm)
9614TR14	G 1/4"	5,8	26,4	0,5 - 18	0,2	10%	20%	50	15
9614TR38	G 3/8"	10,8	91,5	1 - 14	-	10%	20%	67	20
9614TR12	G 1/2"	10,8	91,5	1 - 14	-	10%	20%	67	22

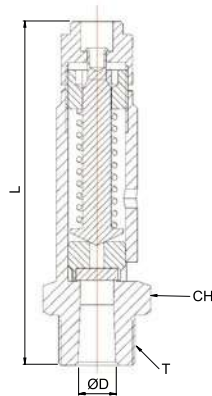
## EXHAUST FLOW RATES FOR COMPRESSED AIR

	Bar	0,5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
		kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h	lt/m	kg/h
9614TR14	kg/h	17	24	37	50	63	76	88	101	113	126	139	152	164	177	189	202	215	228	241
	lt/m	245	329	492	656	821	982	1146	1309	1471	1634	1798	1961	2125	2288	2452	2611	2770	2928	3085
9614TR38	kg/h	-	55	83	111	139	168	196	224	252	279	306	336	364	392	420	-	-	-	-
	lt/m	-	729	1089	1449	1809	2170	2533	2895	3251	3600	3953	4342	4704	5066	5428	-	-	-	-
9614TR12	kg/h	-	55	83	111	139	168	196	224	252	279	306	336	364	392	420	-	-	-	-
	lt/m	-	729	1089	1449	1809	2170	2533	2895	3251	3600	3953	4342	4704	5066	5428	-	-	-	-



## 9615

## Safety valve IV° category



CODE	T	ØD (mm)	ØD AREA (mm)	CALIBRATION (Bar)	OVERPRESSURE (Bar)	RE-CLOSING TRIPPING	TOTAL LENGTH FROM 0,5 TO 16 BAR (mm)	TOTAL LENGTH FROM 16 TO 45 BAR (mm)	CH (mm)
9615TR14	G 1/4"	7	38,5	0,5 - 45	10%	10%	62	67	17
9615TR38	G 3/8"	7	38,5	0,5 - 45	10%	10%	64	69	20
9615TR12	G 1/2"	7	38,5	0,5 - 45	10%	10%	66	71	22

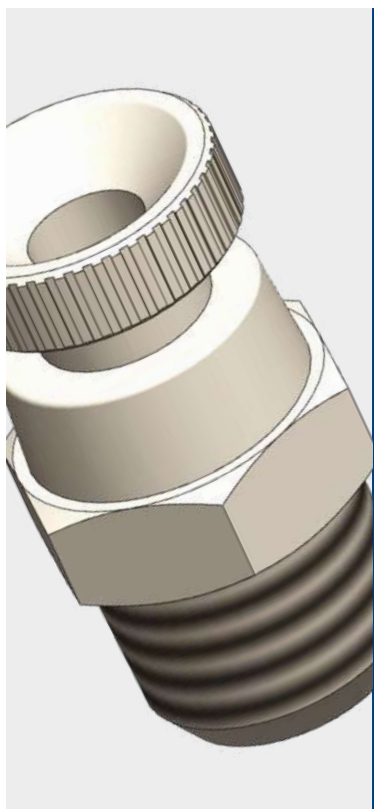
## EXHAUST FLOW RATES FOR COMPRESSED AIR

	Bar	0,5	1	1,5	2	3	4	5	6	7	8	9	10	11	12	13	14	15
		kg/h	40	53	67	80	107	134	161	188	215	242	268	295	322	349	376	403
9615TR14	lt/m	520	693	866	1040	1387	1733	2080	2427	2774	3120	3467	3814	4161	4508	4854	5201	5548
	kg/h	40	53	67	80	107	134	161	188	215	242	268	295	322	349	376	403	430
9615TR38	lt/m	520	693	866	1040	1387	1733	2080	2427	2774	3120	3467	3814	4161	4508	4854	5201	5548
	kg/h	40	53	67	80	107	134	161	188	215	242	268	295	322	349	376	403	430
9615TR12	lt/m	520	693	866	1040	1387	1733	2080	2427	2774	3120	3467	3814	4161	4508	4854	5201	5548

	Bar	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
		kg/h	457	484	511	537	564	591	618	645	672	699	726	753	780	806
9615TR14	lt/m	5895	6241	6588	6935	7282	7628	7975	8322	8669	9016	9362	9709	10056	10403	10749
	kg/h	457	484	511	537	564	591	618	645	672	699	726	753	780	806	833
9615TR38	lt/m	5895	6241	6588	6935	7282	7628	7975	8322	8669	9016	9362	9709	10056	10403	10749
	kg/h	457	484	511	537	564	591	618	645	672	699	726	753	780	806	833
9615TR12	lt/m	5895	6241	6588	6935	7282	7628	7975	8322	8669	9016	9362	9709	10056	10403	10749


	Bar	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
		kg/h	860	867	914	941	968	995	1022	1049	1075	1102	1129	1156	1183	1210
9615TR14	lt/m	11096	11443	11790	12136	12483	12830	13177	13524	13870	14217	14564	14911	15257	15604	15951
	kg/h	860	867	914	941	968	995	1022	1049	1075	1102	1129	1156	1183	1210	1237
9615TR38	lt/m	11096	11443	11790	12136	12483	12830	13177	13524	13870	14217	14564	14911	15257	15604	15951
	kg/h	860	867	914	941	968	995	1022	1049	1075	1102	1129	1156	1183	1210	1237
9615TR12	lt/m	11096	11443	11790	12136	12483	12830	13177	13524	13870	14217	14564	14911	15257	15604	15951






 -18°C ÷ 80°C

 Max working pressure:  
12 Bar

 Compressed air and fluids  
suitable with construction  
materials

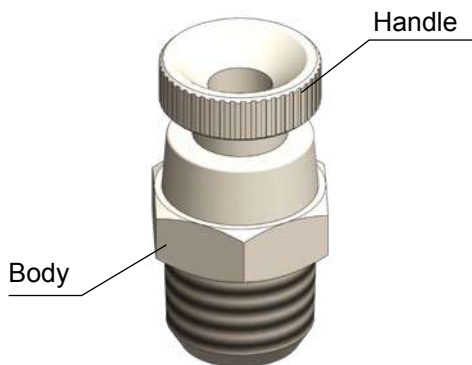
 Taper gas BSPT ISO 7  
from R 1/8" to R 1/2"

**Body:** Nickel-plated brass  
(9611TR18, 9611TR14, 9611TR38)  
Steel (9611TR12)  
**Handle:** Nickel-plated brass  
(9611TR18, 9611TR14, 9611TR38)  
Steel (9611TR12)

 **REACH**  
COMPLIANT  
Products in compliance with  
EC Regulation 1907/2006

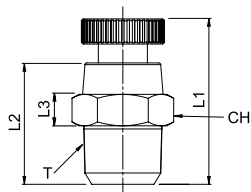
 **RoHS3**  
Products in compliance with  
the directive EU 2015/863

## CONSTRUCTION DETAILS



## 9611

## Condensate drain valve BSPT thread

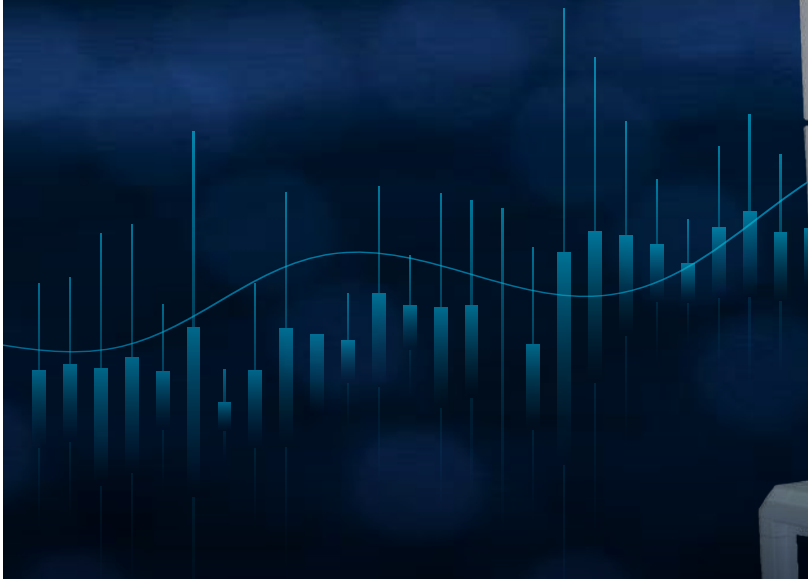


CODE	T	L1	L2	L3	CH
9611TR18	R 1/8"	29	20,5	6,5	12
9611TR14	R 1/4"	24	16	5	14
9611TR38	R 3/8"	22,5	15	5	17
9611TR12	R 1/2"	27	19	6	22





**LA NOSTRA  
CRESCITA  
CONTINUA**



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 **TierreGroup**<sup>®</sup>

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# **INDUSTRIAL VALVES SOLENOID VALVES**

**PLUS**

**DOUBLE RANGE, STAINLESS STEEL  
AND NYLON, DEPENDING ON THE  
APPLICATION**

---

**NYLON VERSION IS STUDIED TO BE  
USED WITH WATER FOR DOMESTIC  
AND PROFESSIONAL APPLIANCES**

---

**MADE IN DIFFERENT STRUCTURES TO  
FACILITATE USER CHOICE**

---

**IN THE STAINLESS STEEL VERSION  
THE 360° WEDGING OF THE GUIDE  
TUBE GUARANTEES RELIABILITY  
AND DURABILITY OVER TIME**

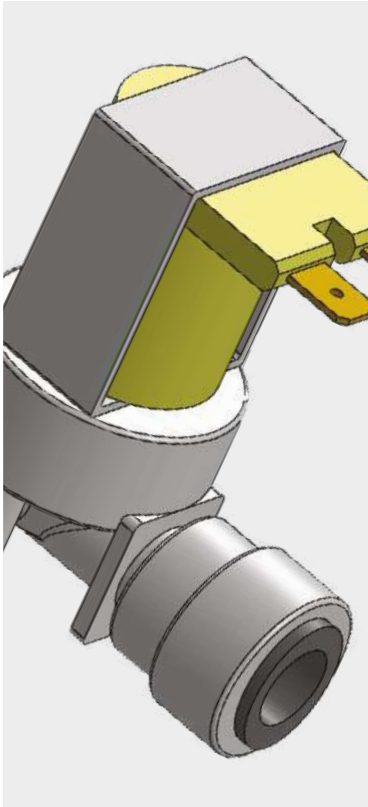


## INDUSTRIAL VALVES - SOLENOID VALVES / NYLON

p. 676 / **SVP2CIR-IR**p. 677 / **SVP2CAL-IR**p. 678 / **SVP2CM-M**p. 679 / **SVP2CAL-CL**

## INDUSTRIAL VALVES - SOLENOID VALVES / STAINLESS STEEL AISI 316L

p. 682 / **SVX2**p. 682 / **SVX3**p. 683 / **SH14-N**p. 683 / **SH14-B-N**p. 683 / **SH14-HP-N**p. 683 / **CN14**



0°C ÷ 60°C environment  
 0°C ÷ 25°C water  
 0°C ÷ 90°C water (3/5 min)  
 ON/OFF



Working pressure:  
 from 0,2 to 10 Bar  
 Bursting pressure:  
 80 Bar



Water and fluids suitable with  
 construction materials



Parallel gas BSP 228  
 from G1/4" to G2"

#### ELECTRICAL CONNECTION

Faston connectors 6,3 mm

Body: Nylon (PA66)  
 Plate: Nylon (PA66)  
 Guide tube: Nylon (PA66)  
 diaphragm: Sunaflex T8157  
 Inlet restrictor washer:  
 Sunaflex T8157  
 Outlet restrictor washer:  
 Sunaflex T8157  
 Inlet filter: POM  
 Inlet restrictor: POM  
 Outlet restrictor: POM  
 Piston: Stainless steel  
 Spring: Stainless steel



WRAS approved product

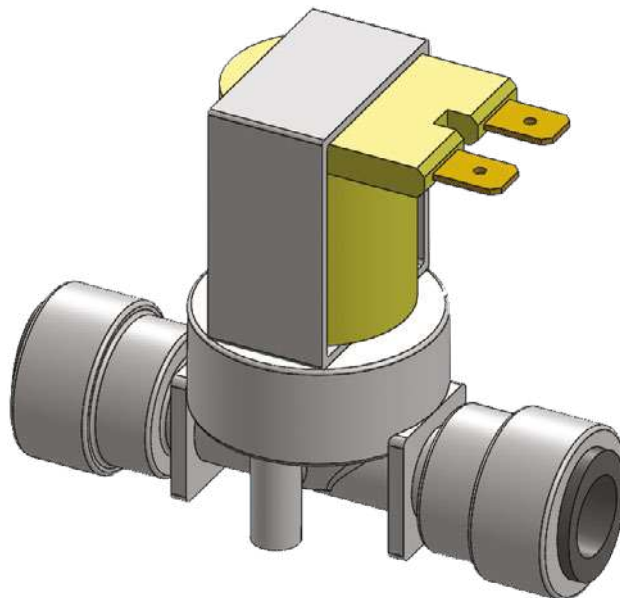


Products in compliance with  
 EC Regulation 1907/2006



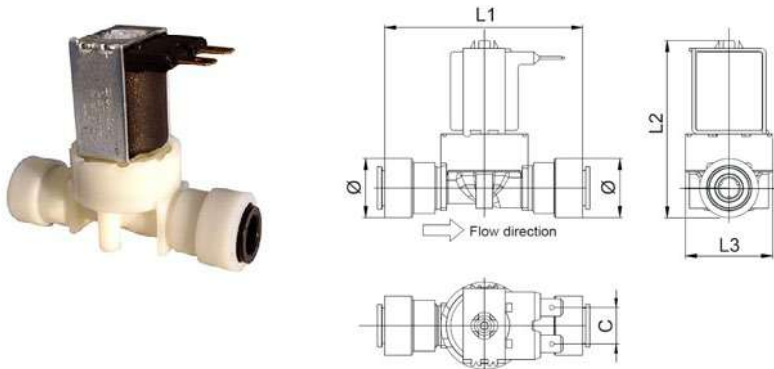
Products in compliance with  
 the directive EU 2015/863

#### VIEW - SOLENOID VALVE SVP2-CIR-IR



**SVP2CIR-IR**

Nylon solenoid valve tube - tube 2/2-ways NC, metric tube



CODE	Ø	INLET CONNECTION	OUTLET CONNECTION	L1	L2	L3	C	FIXING	VOLTAGE
SVP2CIR10IR10M1	21	PUSH-IN SYSTEM Ø10	PUSH-IN SYSTEM Ø10	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CIR10IR10M2	21	PUSH-IN SYSTEM Ø10	PUSH-IN SYSTEM Ø10	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CIR10IR10M5	21	PUSH-IN SYSTEM Ø10	PUSH-IN SYSTEM Ø10	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CIR10IR10M7	21	PUSH-IN SYSTEM Ø10	PUSH-IN SYSTEM Ø10	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CIR10IR10M9	21	PUSH-IN SYSTEM Ø10	PUSH-IN SYSTEM Ø10	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC

Nylon solenoid valve tube - tube 2/2-ways NC, inch tube

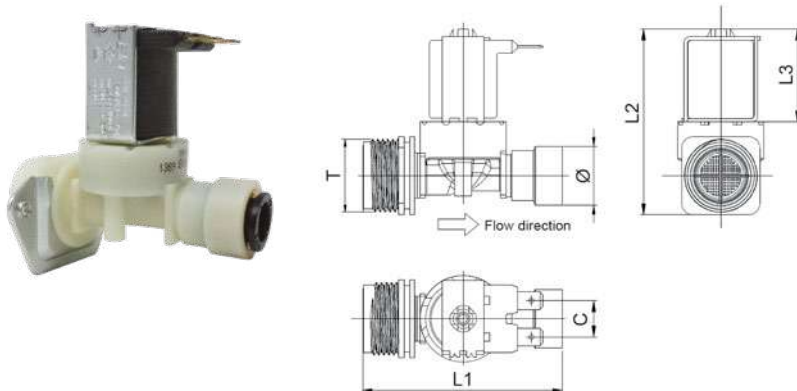
CODE	Ø	INLET CONNECTION	OUTLET CONNECTION	L1	L2	L3	C	FIXING	VOLTAGE
SVP2CIR3/8IR3/8M1	21	PUSH-IN SYSTEM 3/8"	PUSH-IN SYSTEM 3/8"	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CIR3/8IR3/8M2	21	PUSH-IN SYSTEM 3/8"	PUSH-IN SYSTEM 3/8"	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CIR3/8IR3/8M5	21	PUSH-IN SYSTEM 3/8"	PUSH-IN SYSTEM 3/8"	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CIR3/8IR3/8M7	21	PUSH-IN SYSTEM 3/8"	PUSH-IN SYSTEM 3/8"	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CIR3/8IR3/8M9	21	PUSH-IN SYSTEM 3/8"	PUSH-IN SYSTEM 3/8"	71,0	63,0	31,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC

The collet of the solenoid valve for inch tube is grey



**SVP2CAL-IR**

Nylon solenoid valve, male BSPP thread - tube, 2/2 ways NC, metric tube



CODE	Ø	INLET CONNECTION (T)	OUTLET CONNECTION	L1	L2	L3	C	FIXING	VOLTAGE
SVP2CAL34IR10M1	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM Ø10	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CAL34IR10M2	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM Ø10	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CAL34IR10M5	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM Ø10	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CAL34IR10M7	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM Ø10	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CAL34IR10M9	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM Ø10	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC

Fixing: Universal bracket with M4 bores

Nylon solenoid valve, male BSPP thread - tube, 2/2 ways NC, inch tube

CODE	Ø	INLET CONNECTION (T)	OUTLET CONNECTION	L1	L2	L3	C	FIXING	VOLTAGE
SVP2CAL34IR3/8M1	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM 3/8"	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CAL34IR3/8M2	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM 3/8"	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CAL34IR3/8M5	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM 3/8"	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CAL34IR3/8M7	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM 3/8"	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CAL34IR3/8M9	21	BSPP THREAD G 3/4"	PUSH-IN SYSTEM 3/8"	71,0	67,0	33,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC

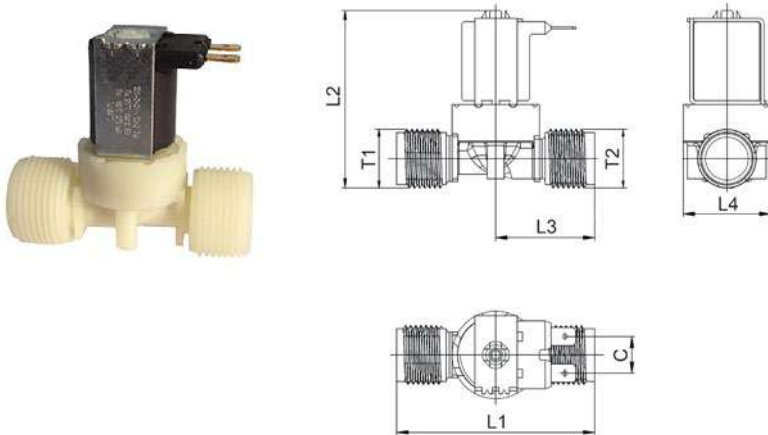
Fixing: Universal bracket with M4 bores

The collet of the solenoid valve for inch tube is grey



**SVP2CM-M**

Nylon solenoid valve, M/M BSPP thread, 2/2 ways NC

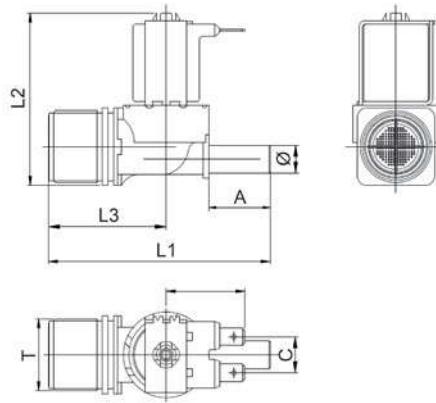


CODE	INLET CONNECTION (T1)	OUTLET CONNECTION (T2)	L1	L2	L3	L4	C	FIXING	VOLTAGE
SVP2CM38M38M1	BSPP THREAD G 3/8"	BSPP THREAD G 3/8"	64,0	60,5	31,9	31,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CM38M38M2	BSPP THREAD G 3/8"	BSPP THREAD G 3/8"	64,0	60,5	31,9	31,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CM38M38M5	BSPP THREAD G 3/8"	BSPP THREAD G 3/8"	64,0	60,5	31,9	31,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CM38M38M7	BSPP THREAD G 3/8"	BSPP THREAD G 3/8"	64,0	60,5	31,9	31,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CM38M38M9	BSPP THREAD G 3/8"	BSPP THREAD G 3/8"	64,0	60,5	31,9	31,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC
SVP2CM12M12M1	BSPP THREAD G 1/2"	BSPP THREAD G 1/2"	70,0	63,0	35,0	31,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CM12M12M2	BSPP THREAD G 1/2"	BSPP THREAD G 1/2"	70,0	63,0	35,0	31,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CM12M12M5	BSPP THREAD G 1/2"	BSPP THREAD G 1/2"	70,0	63,0	35,0	31,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CM12M12M7	BSPP THREAD G 1/2"	BSPP THREAD G 1/2"	70,0	63,0	35,0	31,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CM12M12M9	BSPP THREAD G 1/2"	BSPP THREAD G 1/2"	70,0	63,0	35,0	31,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC
SVP2CM34M34M1	BSPP THREAD G 3/4"	BSPP THREAD G 3/4"	69,0	63,5	34,0	31,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CM34M34M2	BSPP THREAD G 3/4"	BSPP THREAD G 3/4"	69,0	63,5	34,0	31,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CM34M34M5	BSPP THREAD G 3/4"	BSPP THREAD G 3/4"	69,0	63,5	34,0	31,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CM34M34M7	BSPP THREAD G 3/4"	BSPP THREAD G 3/4"	69,0	63,5	34,0	31,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CM34M34M9	BSPP THREAD G 3/4"	BSPP THREAD G 3/4"	69,0	63,5	34,0	31,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC



**SVP2CAL-CL**

Nylon solenoid valve, male BSPP thread - stem, 2/2 ways NC



CODE	INLET CONNECTION (T)	OUTLET CONNECTION (Ø)	L1	L2	L3	A	C	FIXING	VOLTAGE
SVP2CAL34CL10M1	BSPP THREAD G 3/4"	STEM Ø10	80,0	62,0	42,5	22,0	13,0	2 BORES Ø 2,7mm	12V DC / AC
SVP2CAL34CL10M2	BSPP THREAD G 3/4"	STEM Ø10	80,0	62,0	42,5	22,0	13,0	2 BORES Ø 2,7mm	24V DC / AC
SVP2CAL34CL10M5	BSPP THREAD G 3/4"	STEM Ø10	80,0	62,0	42,5	22,0	13,0	2 BORES Ø 2,7mm	220/240V AC
SVP2CAL34CL10M7	BSPP THREAD G 3/4"	STEM Ø10	80,0	62,0	42,5	22,0	13,0	2 BORES Ø 2,7mm	110V AC
SVP2CAL34CL10M9	BSPP THREAD G 3/4"	STEM Ø10	80,0	62,0	42,5	22,0	13,0	2 BORES Ø 2,7mm	BISTABLE 5,5 - 12V DC



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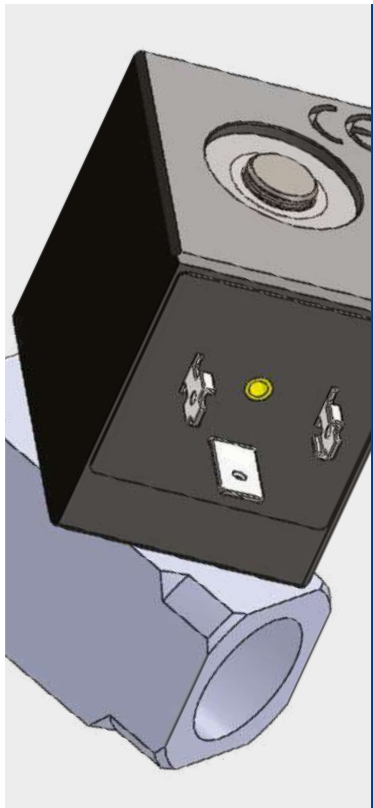
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**Environment temperature:**  
-20°C ÷ 95°C



**Fluid temperature:**  
- EPDM: -20°C ÷ 140°C  
- FKM: -10°C ÷ 155°C  
- PTFE: -30°C ÷ 180°C  
- KALREZ: -30°C ÷ 250°C



**Working pressure:**  
See pressure table



Compressed air, vapour,  
water and fluids suitable with  
construction materials



Parallel gas BSPP 228  
from G1/8" to G1/2"

#### AVAILABILITY - SVX2

Seals available on request in EPDM, PTFE and Kalrez

**Body:** Stainless steel AISI 316L

**Orifice:** Stainless steel AISI 316L

**Guide tube:** Stainless steel



**Plunger:** Stainless steel IMRE

**Spring:** Stainless steel

**Insulation:** IP 65 with connector

**Coil:** PA 66 - Ryton (SM5 type)

**Seal:** FKM



Food contact materials  
EC 1935/2004



D.M. 174/2004



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

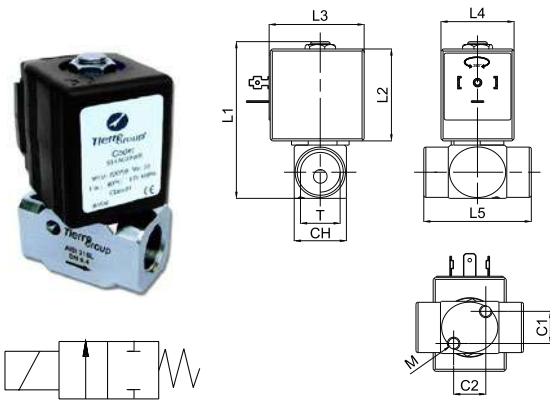
#### FEATURES

- Connection: EN 175301-803 A;
- Coil insulation class: H;
- Metallic seal between body and guide tube, 360° welding of the tube guide, guarantees endurance and reliability (SVX2);
- O-ring seal between body and guide tube, 360° welding of the tube guide, guarantees endurance and reliability (SVX3);
- 2/2-way & 3/2-way NC direct acting solenoid valve for neutral fluids compatible with food grade FKM and stainless steel AISI 316L;
- There are no minimum working pressure requirements;

MODEL	TYPE	CODE	THREAD	DN (mm)	KV (m³/h)	COIL	ΔP BAR			TA. ENV. TEMP. °C	POWER		ALTERNATIVE SEAL											
							MIN	MAX			VA AC	W DC	EPDM	PTFE	KALREZ									
								AC	DC															
STANDARD	2/2 NC	SVX2C15G18	G 1/8"	1,5	0,07	SH14/B	0	25	20	80	25	12	✓	✓	✓									
		SVX2C30G18	G 1/8"	3	0,2	SH14/B	0	16	12	80	25	12	✓	✓	✓									
		SVX2C25G14	G 1/4"	2,5	0,13	SH14/B	0	20	12	80	25	12	✓	✓	✓									
		SVX2C40G14	G 1/4"	4	0,38	SH14/HP	0		8	80		25	✓	✓	✓									
						SH14	0	15	6	80	32	17	✓	✓	✓									
						SH14/B	0	7		80	22	✓	✓	✓										
		SVX2C50G38	G 3/8"	5	0,48	SH14/HP	0		5	80		27	✓	✓	✓									
						SH14	0	10	2	80	32	17	✓	✓	✓									
						SH14/B	0	5		80	22	✓	✓	✓										
		SVX2C64G38	G 3/8"	6,4	0,66	SH14/HP	0		4	80		27	✓	✓	✓									
						SH14	0	7	1,5	80	32	17	✓	✓	✓									
						SH14/B	0	3		80	22	✓	✓	✓										
		SVX2C64G12	G 1/2"	6,4	0,66	SH14/HP	0		4	80		27	✓	✓	✓									
						SH14	0	7	1,5	80	32	17	✓	✓	✓									
						SH14/B	0	3		80	22	✓	✓	✓										
3/2 NC	SVX3C15G18	G 1/8"	1,5	0,07	SH14/B	0	18	18	80	25	12													
												SVX3C25G14	G 1/4"	2,5	0,13	SH14/B	0	10	10	80	25	12		
												SVX3C40G14	G 1/4"	4	0,38	SH14/B	0	4	4	80	25	12		

**SVX2**

Solenoid valve direct-acting 2/2-ways NC

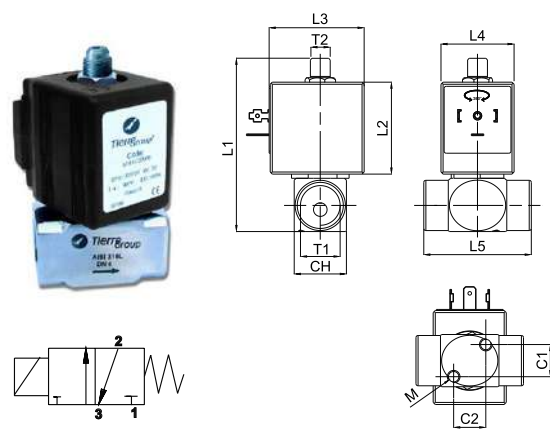


CODE	T	L1	L2	L3	L4	L5	M	C1	C2	CH
SVX2C15G18	G 1/8"	75,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25
SVX2C30G18	G 1/8"	75,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25
SVX2C25G14	G 1/4"	75,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25
SVX2C40G14	G 1/4"	75,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25
SVX2C50G38	G 3/8"	75,0	44,0	45,0	35,0	48,0	M6x5	15,4	15,4	25
SVX2C64G38	G 3/8"	75,0	44,0	45,0	35,0	48,0	M6x5	15,4	15,4	25
SVX2C64G12	G 1/2"	75,0	44,0	45,0	35,0	52,0	M6x5	15,4	15,4	25

SVX2: With vapour the maximum recommended pressure is 6 Bar

**SVX3**

Solenoid valve direct-acting 3/2-ways NC



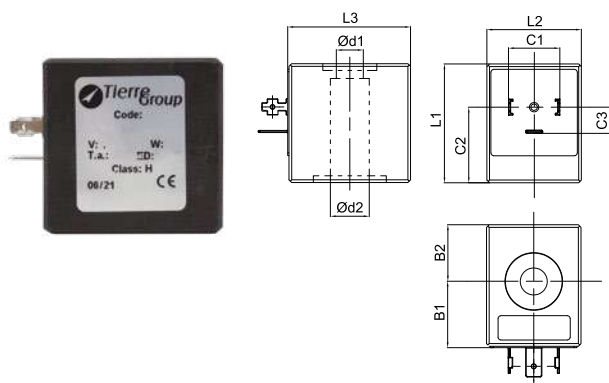
CODE	T1	T2	L1	L2	L3	L4	L5	M	C1	C2	CH
SVX3C15G18	G 1/8"	G 1/8"	85,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25
SVX3C25G14	G 1/4"	G 1/8"	85,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25
SVX3C40G14	G 1/4"	G 1/8"	85,0	44,0	45,0	35,0	45,0	M6x5	15,4	15,4	25

SVX3: With vapour the maximum recommended pressure is 5 Bar



### SH14-N

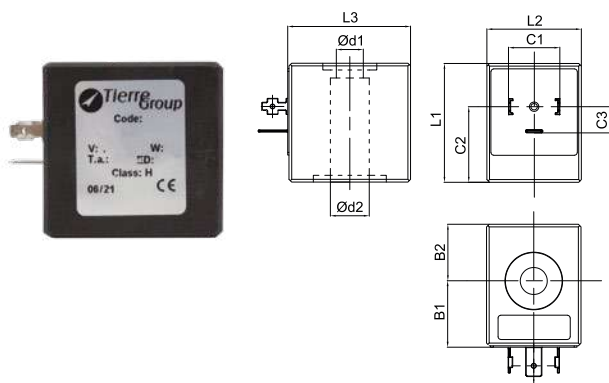
Coil



CODE	Ød1	Ød2	L1	L2	L3	B1	B2	C1	C2	C3	VOLTAGE
SH14AC24-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	24V AC
SH14AC110-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	110V AC
SH14AC220-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	230V AC
SH14AC240-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	220/240V AC
SH14DC12-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	12V DC
SH14DC24-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	24V DC

### SH14-B-N

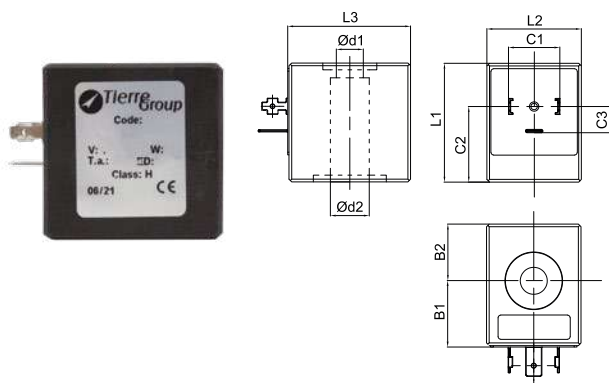
Low absorption coil



CODE	Ød1	Ød2	L1	L2	L3	B1	B2	C1	C2	C3	VOLTAGE
SH14AC24/B-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	24V AC
SH14AC110/B-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	110V AC
SH14AC220/B-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	230V AC
SH14AC240/B-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	220/240V AC
SH14DC12/B-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	12V DC
SH14DC24/B-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	24V DC

### SH14-HP-N

High performance coil



CODE	Ød1	Ød2	L1	L2	L3	B1	B2	C1	C2	C3	VOLTAGE
SH14DC12/HP-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	12V DC
SH14DC24/HP-N	10	14,4	44,0	35,0	46,0	25	21	19	28	9,5	24V DC

### CN14

Connector

CODE	ELECTRIC CONNECTOR
CN14	DIN 43650



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Certificazioni

Test

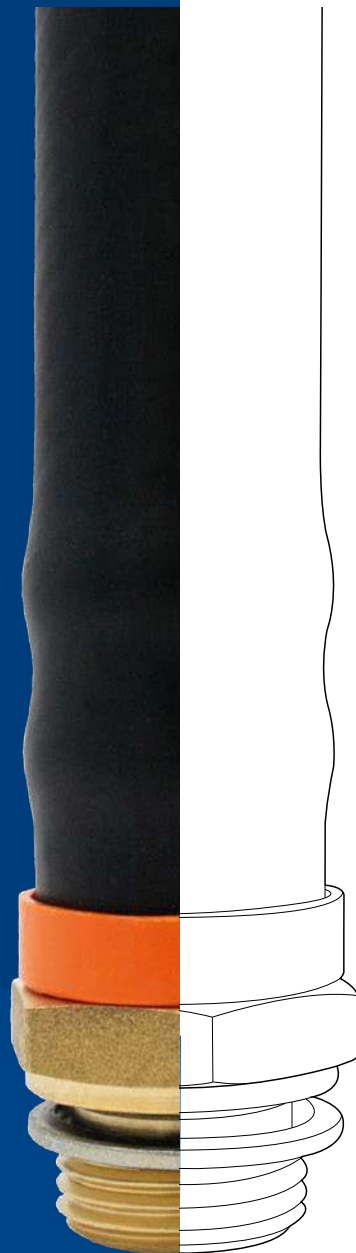
Prove di laboratorio

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# TECHNICAL TUBES





p. 689  
**POLYURETHANE TUBE ON POLYESTER BASIS**

**Material:** Polyurethane tube on polyester basis  
**Temperature:** from -20°C to 60°C  
**Range Ø:** 3x2 - 16x12



p. 693  
**HIGH QUALITY POLYURETHANE TUBE ON POLYESTER BASIS**

**Material:** Polyurethane tube on polyester basis  
**Temperature:** from -30°C to 80°C\*  
**Range Ø:** 4x2,5 - 16x11

# TECHNICAL INDEX



p. 699  
**POLYURETHANE TUBE ON POLYETHER BASIS**



**Material:** Polyurethane on polyether basis  
**Temperature:** from -30°C to 60°C\*  
**Range Ø:** 4x2,5 - 16x11



p. 703  
**ANTISTATIC POLYURETHANE TUBE**

**Material:** Polyurethane on polyester basis  
**Temperature:** from -30°C to 80°C\*  
**Range Ø:** 4x2,5 - 12x9



p. 707  
**ANTI-SPARK POLYURETHANE TUBE FLAMEX HYBRID**

**Material:** Anti-spark polyurethane FH  
**Temperature:** from -30°C to 100°C\*  
**Range Ø:** 10x6 - 16x11 (PUFW)  
 4x2 - 16x11 (PUFA & PUFH)



p. 715  
**SELF-EXTINGUISHING POLYURETHANE TUBE**

**Material:** Flame retardants polyurethane without halogen  
**Temperature:** from -30°C to 100°C\*  
**Range Ø:** 6x4 - 16x11



p. 719  
**POLYAMIDE TUBE PA12**

**Material:** Polyamide  
**Temperature:** from -40°C to 80°C  
**Range Ø:** 4x2 - 16x14



p. 725  
**POLYETHYLENE TUBE**



**Material:** Polyethylene  
**Temperature:** from -29°C to 66°C  
**Range Ø:** 4x2,5 - 12x9



p. 729  
**CALIBRATED PTFE TUBE**



**Material:** Calibrated teflon PTFE  
**Temperature:** from -70°C to 260°C  
**Range Ø:** 4x2 - 16x13





p. 733  
**CALIBRATED FEP TUBE**



**Material:** Calibrated FEP  
**Temperature:** from -60°C to 200°C  
**Range Ø:** 3x1,5 - 8x6



p. 737  
**SILICONE TUBE**



**Material:** Silicone  
**Temperature:** from -60°C to 200°C  
**Range Ø:** 5x3 - 15x12

# TECHNICAL INDEX



p. 741  
**PVC CRYSTAL CLEAR TUBE**

**Material:** Single layer transparent PVC  
**Temperature:** from -10°C to 50°C  
**Range Ø:** 6x4 - 33x25



p. 745  
**PVC CRYSTAL REINFORCED TUBE**

**Material:** Double layer PVC with high tenacity polyester reinforcement  
**Temperature:** from -20°C to 60°C  
**Range Ø:** 12x6 - 33x25



p. 749  
**POLYURETHANE TUBE WITH NON-TOXIC PVC INNER LAYER**

**Material:** PVC, polyurethane and synthetic textile insert  
**Temperature:** from -20°C to 60°C  
**Range Ø:** 10x6 - 19x13



p. 753  
**PVC TUBE WITH POLYESTER FIBRE REINFORCEMENT**

**Material:** Black PVC and polyester synthetic textile insert  
**Temperature:** from -20°C to 60°C  
**Range Ø:** 14x6 - 28x19



p. 757  
**COILED TUBES & ACCESSORIES**

**Materials:** Thermoplastic polyurethane on polyester basis (UCES)  
**Temperature:** from -40°C to 60°C (UCES)  
**Range Ø:** G1/4" and G3/8" (UCES-G)



p. 767  
**PUSH-LOCK HOSES & FITTINGS**

**Materials:** Synthetic rubber and textile layer (ASR & ASR-HH)  
Polyurethane and textile layer (ASR-PU)  
**Range Ø:** 6-25 (ASR)  
6-16 (ASR-HH)  
6-20 (ASR-PU)



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**BIRRA**  
NON BASTA UN  
OTTIMO BARISTA



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**TECHNICAL  
TUBES**  
POLYURETHANE  
TUBE ON  
POLYESTER BASIS

**PLUS**

**EXCELLENT FLEXIBILITY ALLOWS A  
GREAT BENDING RADIUS**

---

**LIGHT, DURABLE AND ABRASION  
RESISTANT**

---

**IDEAL FOR PNEUMATIC  
CONNECTIONS IN TIGHT SPACES**

---

**WIDE RANGE OF COLOURS  
AVAILABLE WHICH ALLOWS TO  
DIVERSIFY CIRCUITS**



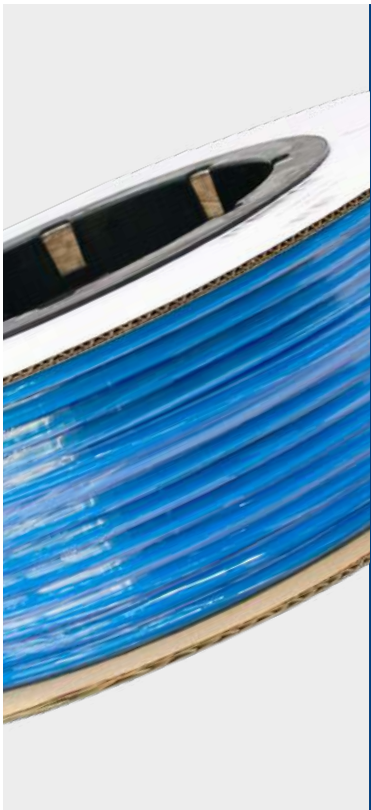


p. 691 / **PUES**



p. 692 / **PUES-BX**





-20°C ÷ 60°C



**Working pressure:**  
from Ø3x2 to Ø12x9: 10 Bar  
Ø14x10 and Ø16x12: 8 Bar

**Bursting pressure:**

See the table

**Negative pressure:**

-0,95 Bar (-95 Kpa)



Compressed air & vacuum  
(do not use with water)

#### HARDNESS

Shore 96 A



**Material:** Polyurethane on polyester basis

#### FEATURES

The polyurethane tube on polyester basis has a high flexibility at low temperatures and good resistance to wear and chemicals.

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863



## PUES

Polyurethane tube on polyester basis



CODE	Ø ODxID	ØOD TOLERANCE	THICKNESS (mm)	MIN. BENDING RADIUS AT 23 °C (mm)	WORKING PRESSURE AT 23 °C (Bar)	BURST PRESSURE AT 23 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUES0302	3x2	±0,1	0,5	8	10	30	12	100
PUES0425	4x2,5	±0,1	0,75	12	10	30	13	100
PUES0604	6x4	±0,1	1	15	10	25	25,5	100
PUES0805	8x5	±0,1	1,5	20	10	25	44,6	100
PUES0855	8x5,5	±0,1	1,25	20	10	25	37,5	100
PUES1065	10x6,5	±0,15	1,75	25	10	25	65,2	100
PUES1007	10x7	±0,15	1,5	25	10	25	61,0	100
PUES1208	12x8	±0,15	2	35	10	25	80,8	100
PUES1209	12x9	±0,15	1,5	35	10	25	72,0	100
PUES1410	14x10	±0,15	2	45	8	18	146,0	50
PUES1612	16x12	±0,15	2	60	8	16	128,8	50











Sizes ODxID	 Light blue	 Black	 Red	 Yellow	 Green	 Grey	 Transparent	 Transparent light blue
3x2	PUES0302AZ							
4x2,5	PUES0425AZ	PUES0425NE	PUES0425RO	PUES0425GL	PUES0425VD	PUES0425SL	PUES0425TR	PUES0425AZTR
6x4	PUES0604AZ	PUES0604NE	PUES0604RO	PUES0604GL	PUES0604VD	PUES0604SL	PUES0604TR	PUES0604AZTR
8x5	PUES0805AZ			PUES0805GL				
8x5,5	PUES0855AZ	PUES0855NE	PUES0855RO	PUES0855GL	PUES0855VD	PUES0855SL	PUES0855TR	PUES0855AZTR
10x6,5	PUES1065AZ			PUES1065GL				
10x7	PUES1007AZ	PUES1007NE	PUES1007RO	PUES1007GL	PUES1007VD	PUES1007SL	PUES1007TR	PUES1007AZTR
12x8	PUES1208AZ	PUES1208NE		PUES1208GL			PUES1208TR	
12x9	PUES1209AZ	PUES1209NE	PUES1209RO	PUES1209GL	PUES1209VD	PUES1209SL	PUES1209TR	PUES1209AZTR
14x10	PUES1410AZ						PUES1410TR	
16x12	PUES1612AZ							

**PUES-BX**

Polyurethane tube on polyester base in 25m box



Sizes ODxID	 Light blue	 Black	 Red	 Yellow	 Green	 Grey	 Transparent	 Transparent light blue
3x2	PUES0302AZ-25BX							
4x2,5	PUES0425AZ-25BX	PUES0425NE-25BX	PUES0425RO-25BX	PUES0425GL-25BX	PUES0425VD-25BX	PUES0425SL-25BX	PUES0425TR-25BX	PUES0425AZTR-25BX
6x4	PUES0604AZ-25BX	PUES0604NE-25BX	PUES0604RO-25BX	PUES0604GL-25BX	PUES0604VD-25BX	PUES0604SL-25BX	PUES0604TR-25BX	PUES0604AZTR-25BX
8x5	PUES0805AZ-25BX			PUES0805GL-25BX				
8x5,5	PUES0855AZ-25BX	PUES0855NE-25BX	PUES0855RO-25BX	PUES0855GL-25BX	PUES0855VD-25BX	PUES0855SL-25BX	PUES0855TR-25BX	PUES0855AZTR-25BX
10x6,5	PUES1065AZ-25BX			PUES1065GL-25BX				
10x7	PUES1007AZ-25BX	PUES1007NE-25BX	PUES1007RO-25BX	PUES1007GL-25BX	PUES1007VD-25BX	PUES1007SL-25BX	PUES1007TR-25BX	PUES1007AZTR-25BX
12x8	PUES1208AZ-25BX	PUES1208NE-25BX		PUES1208GL-25BX			PUES1208TR-25BX	
12x9	PUES1209AZ-25BX	PUES1209NE-25BX	PUES1209RO-25BX	PUES1209GL-25BX	PUES1209VD-25BX	PUES1209SL-25BX	PUES1209TR-25BX	PUES1209AZTR-25BX



**TECHNICAL  
TUBES**  
HIGH QUALITY  
POLYURETHANE  
TUBE ON  
POLYESTER BASIS

**PLUS**

**VERY FLEXIBLE WITH EXCELLENT  
RESILIENCE PROPERTIES**

---

**PLASTICIZER FREE**

---

**EXCELLENT FLEXIBILITY EVEN AT  
LOW TEMPERATURES (UP TO -35°C)**

---

**GOOD ABRASION RESISTANCE**

---

**CAN BE USE INSIDE CABLE DRAG  
CHAINS**

---

**SUITABLE FOR PNEUMATICS  
APPLICATIONS AND VACUUMS**





p. 695 / **PUHQ**



p. 696 / **PUHQ-BLNE**





Environment temperature:

-30°C ÷ 80°C

The working temperature depends on the working pressure.



Working pressure:

See pressure charts

Bursting pressure:

See the table

Negative pressure:

- 0,95 Bar (- 95 Kpa)



Compressed air & vacuum

#### HARDNESS

Shore 98 A



Material: Polyurethane on polyester basis

#### FEATURES

- Stress at max. elongation (DIN53504-S2): 14 MPa
- Tensile strength (DIN53504-S2): 50 MPa
- Abrasion (DIN4649-A): 30 mm<sup>3</sup>
- Density (DIN EN ISO 1183-1-A): 1,22 g/cm<sup>3</sup>
- Impact value (Charpy) -30°C / +23°C (DIN EN ISO 179-1): 25 KJ/m<sup>2</sup>

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**



Products in compliance with the directive EU 2015/863

## PUHQ-100m

High quality polyurethane tube on polyester basis with 100m roll



CODE	Ø ODxID	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	MIN. BURST PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUHQ0425	4x2,5	0,75	12	38	9,33	100
PUHQ0604	6x4	1	18	34	19,16	100
PUHQ0857	8x5,7	1,15	30	32	30,19	100
PUHQ1075	10x7,5	1,25	45	26	41,92	100
PUHQ1209	12x9	1,5	55	27	60,37	100
PUHQ1411	14x11	1,5	60	23	71,86	100

Sizes ODxID		
	Blue	Black
4x2,5	PUHQ0425BL	PUHQ0425NE
6x4	PUHQ0604BL	PUHQ0604NE
8x5,7	PUHQ0857BL	PUHQ0857NE
10x7,5	PUHQ1075BL	PUHQ1075NE
12x9	PUHQ1209BL	PUHQ1209NE
14x11	PUHQ1411BL	PUHQ1411NE





**PUHQ-25m**

High quality polyurethane tube on polyester basis with 25m roll



CODE	Ø ODxID	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	MIN. BURST PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUHQ0425-25	4x2,5	0,75	12	38	9,33	25
PUHQ0604-25	6x4	1	18	34	19,16	25
PUHQ0857-25	8x5,7	1,15	30	32	30,19	25
PUHQ1075-25	10x7,5	1,25	45	26	41,92	25
PUHQ1209-25	12x9	1,5	55	27	60,37	25
PUHQ1411-25	14x11	1,5	60	23	71,86	25
PUHQ1611-25	16x11	2,5	65	39	129,36	25

Sizes ODxID	 Blue	 Black
4x2,5	PUHQ0425BL-25	PUHQ0425NE-25
6x4	PUHQ0604BL-25	PUHQ0604NE-25
8x5,7	PUHQ0857BL-25	PUHQ0857NE-25
10x7,5	PUHQ1075BL-25	PUHQ1075NE-25
12x9	PUHQ1209BL-25	PUHQ1209NE-25
14x11	PUHQ1411BL-25	PUHQ1411NE-25
16x11	PUHQ1611BL-25	PUHQ1611NE-25

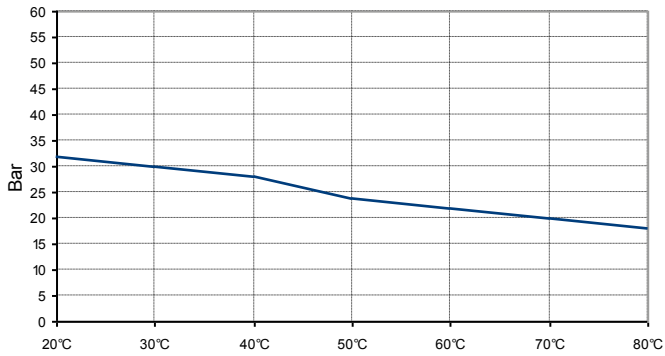




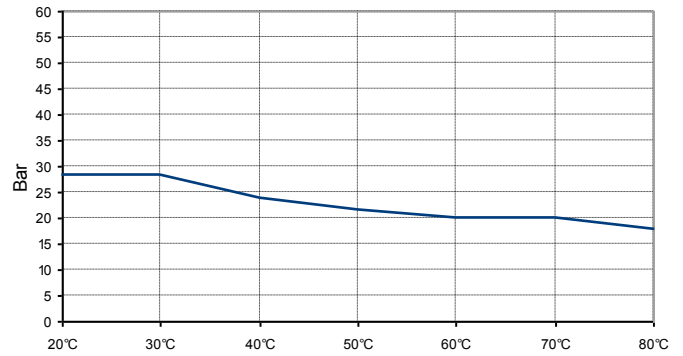
## WORKING PRESSURE - PUHQ

Limit of pressure load depending on temperature

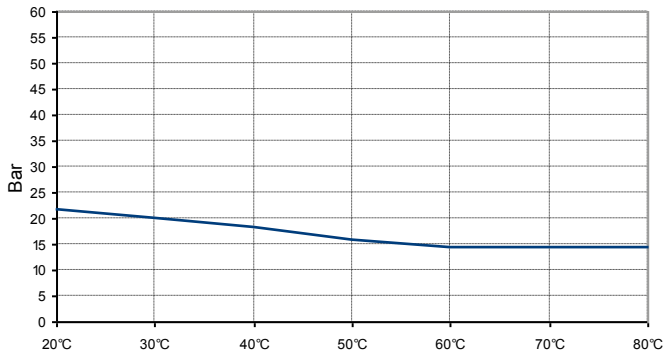
4x2,5



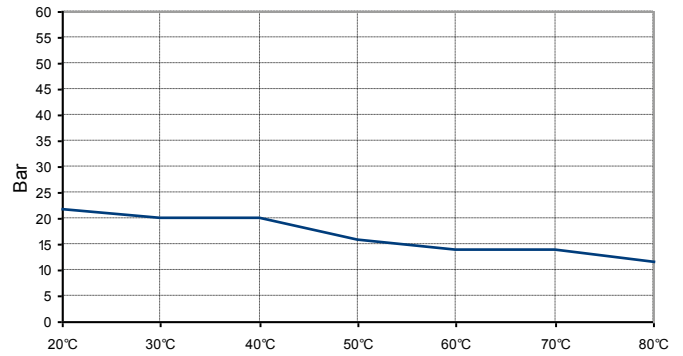
6x4



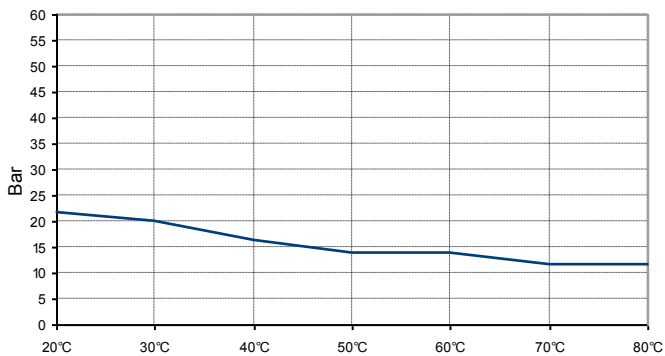
8x5,7



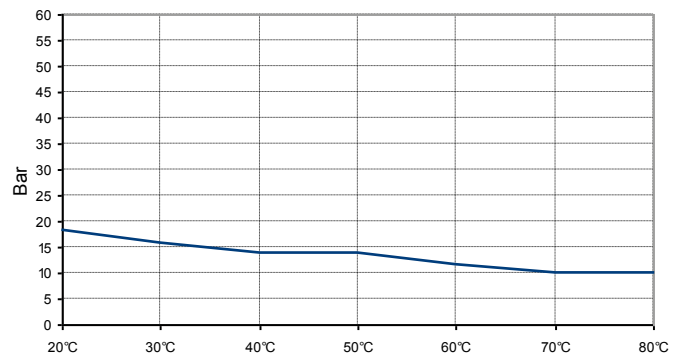
10x7,5



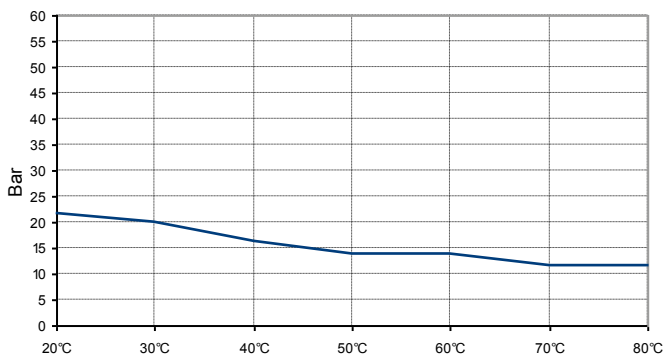
12x9



14x11



16x11



**PUHQ-BLNE**

High quality twin polyurethane tubes on polyester basis

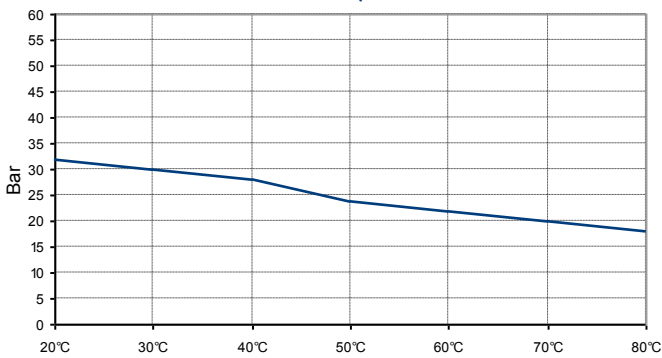


CODE	Ø ODxID	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	MIN. BURST PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUHQ0425BLNE	4x2,5	0,75	12	38	18,66	50
PUHQ0604BLNE	6x4	1	18	34	38,32	50
PUHQ0806BLNE	8x5,7	1,15	27	34	64,66	50
PUHQ1075BLNE	10x7,5	1,25	45	26	83,84	50

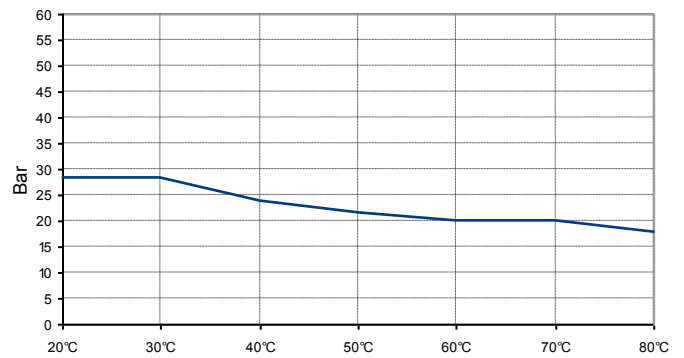
**WORKING PRESSURE - PUHQ-BLNE**

Limit of pressure load depending on temperature

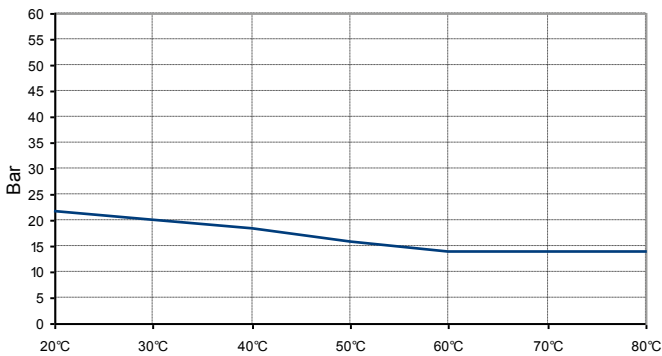
**4x2,5**



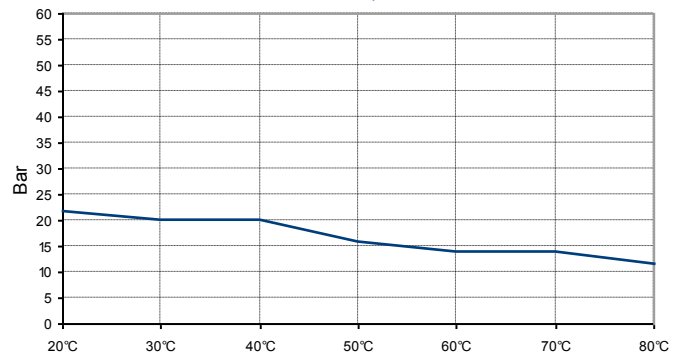
**6x4**



**8x6**



**10x7,5**



**TECHNICAL  
TUBES**  
POLYURETHANE  
TUBE ON  
POLYETHER  
BASIS



**PLUS**

**RESISTANT TO HYDROLYSIS AND  
SUITABLE WITH FLUIDS**

**MICROBE RESISTANT, CAN ALSO BE  
USED FOR EXTERNAL APPLICATIONS**

**COMPLIES WITH THE HYGIENE  
REQUIREMENTS FOR CONTACT  
AREAS OF MACHINERY RELATED  
TO INDUSTRIAL PROCESSING  
AS REQUIRED BY DIN EN 1672-2  
REGULATION**

**SUITABLE FOR FOOD FLUIDS**

**GOOD RESISTANCE TO ABRASION  
AND TO MANY CHEMICALS**

**IDEAL FOR USE IN CABLE DRAG  
CHAINS AND SUITABLE FOR USE IN  
SEATHED CABLE BUNDLES**

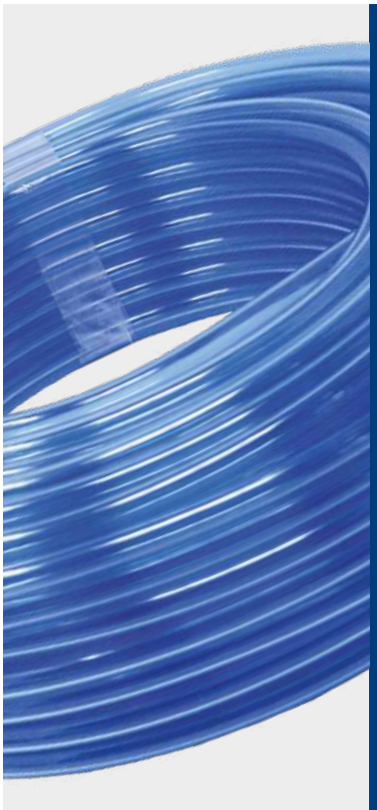




p. 701 / **PUET**

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Environment temperature:  
-30°C ÷ 60°C  
The working temperature depends on the working pressure.



Working pressure:  
See pressure charts

Burst pressure:  
See the table

Negative pressure:  
- 0,95 Bar (- 95 Kpa)



Compressed air, vacuum and fluids suitable with construction materials



Material: Polyurethane on polyether basis

**FEATURES**

- Stress at max. elongation (DIN53504-S2): 15 MPa
- Tensile strength (DIN53504-S2): 50 MPa
- Abrasion (DIN4649-A): 25 mm<sup>3</sup>
- Density (DIN EN ISO 1183-1-A): 1,16 g/cm<sup>3</sup>
- Impact value (Charpy) -30°C / +23°C (DIN EN ISO 179-1): 190 KJ/m<sup>2</sup>



Food contact materials  
EC 1935/2004  
Transparent red, light blue and black colours



D.M. 174/2004  
Transparent red, light blue and black colours



**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**PUET**

Polyurethane tube on polyether basis



CODE	Ø ODxID	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	MIN. BURSTING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUET0425	4x2,5	0,75	12	40	8,88	50
PUET0639	6x3,9	1,05	15	34	18,84	50
PUET0855	8x5,5	1,25	25	31	30,75	50
PUET1007	10x7	1,5	40	27	46,46	50
PUET1208	12x8	2	35	32	72,88	50
PUET1410	14x10	2	55	25	87,46	50
PUET1611	16x11	2,5	55	27	122,99	50

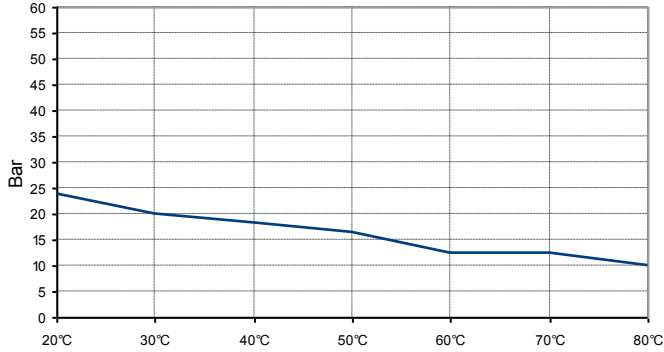
Misure ODxID	 Transparent red	 Transparent light blue	 Transparent	 Transparent black
4x2,5	PUET0425ROTR	PUET0425AZTR	PUET0425TR	PUET0425NETR
6x3,9	PUET0639ROTR	PUET0639AZTR	PUET0639TR	PUET0639NETR
8x5,5	PUET0855ROTR	PUET0855AZTR	PUET0855TR	PUET0855NETR
10x7	PUET1007ROTR	PUET1007AZTR	PUET1007TR	PUET1007NETR
12x8	PUET1208ROTR	PUET1208AZTR	PUET1208TR	PUET1208NETR
14x10	PUET1410ROTR	PUET1410AZTR	PUET1410TR	PUET1410NETR
16x11	PUET1611ROTR	PUET1611AZTR	PUET1611TR	PUET1611NETR



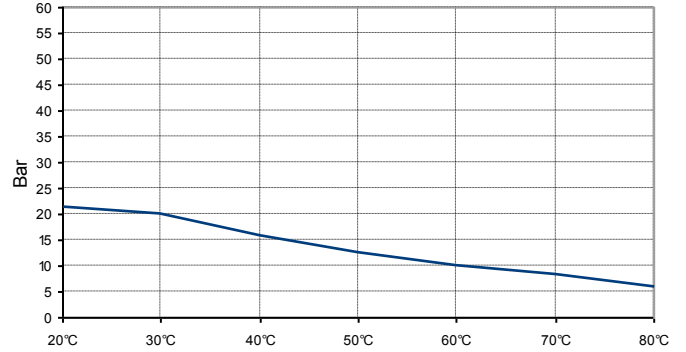
**WORKING PRESSURE - PUET**

Limit of pressure load depending on temperature

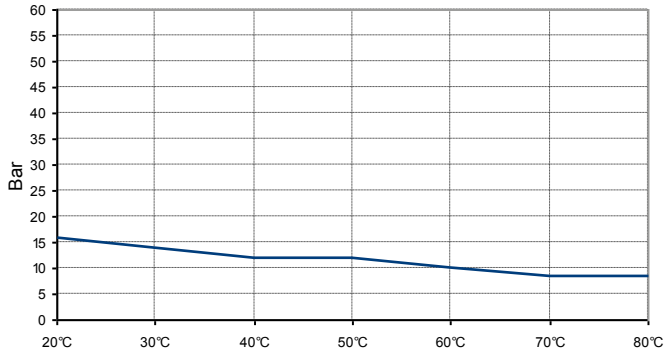
**4x2,5**



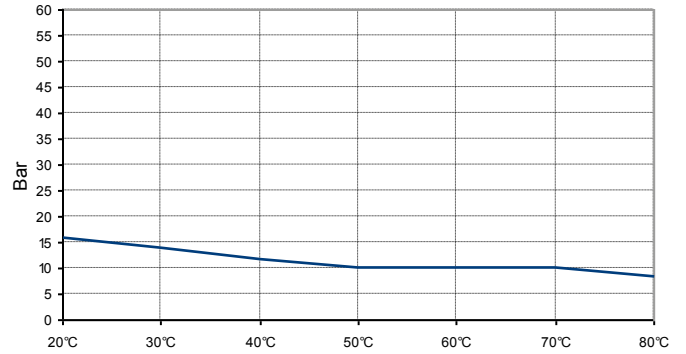
**6x3,9**



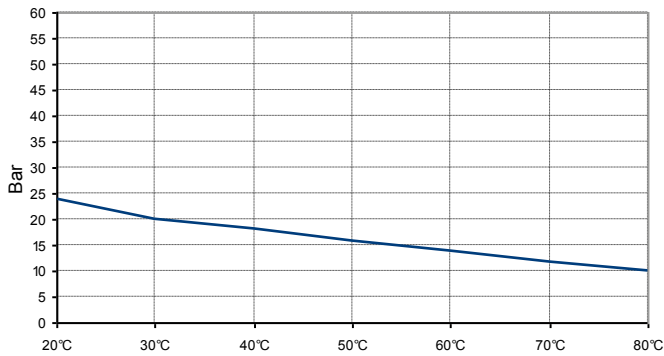
**8x5,5**



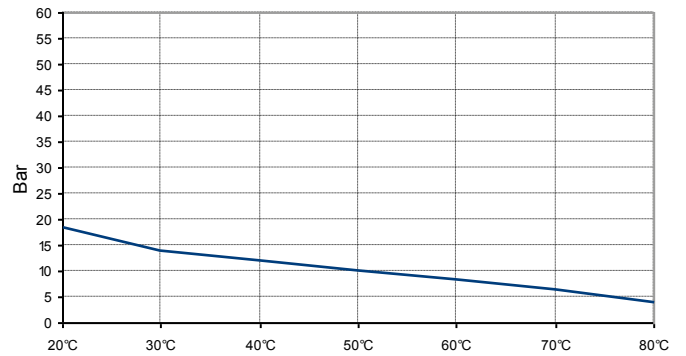
**10x7**



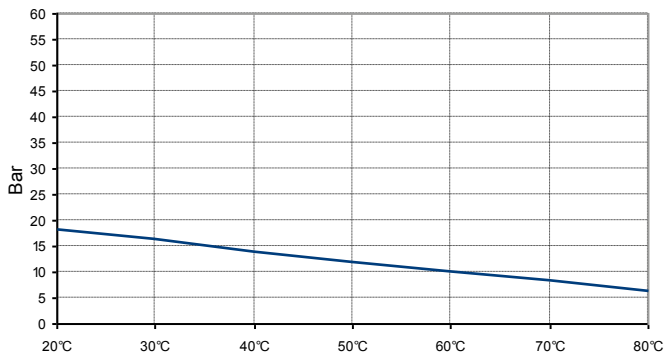
**12x8**



**14x10**



**16x11**



**TECHNICAL  
TUBES**  
ANTISTATIC  
POLYURETHANE  
TUBE

**PLUS**

**HIGH ANTISTATIC PROTECTION  
WITH SUPERFICIAL RESISTANCE  
BETWEEN 10 AND 1000 K $\Omega$**

**EXCELLENT CRUSHING RESISTANCE**

**RESISTANT TO MICROBES AND  
HYDROLYSIS**

**GREAT UV RESISTANCE**

**SUITABLE FOR PNEUMATICS AND  
VACUUMS**





p. 705 / **PUAS**

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Environment temperature:  
-30°C ÷ 80°C  
The working temperature depends  
on the working pressure.



Working pressure:  
See pressure charts

Burst pressure:  
See the table

Negative pressure:  
- 0,95 Bar ( - 95 Kpa)



Compressed air, vacuum,  
water and fluids suitable with  
construction materials



Material: Antistatic polyurethane

#### FEATURES

The PUAS tube is perfect for all applications  
areas where antistatic material is mandatory,  
(for example in the production of electronical  
components, in the surface refinement industry or  
in areas where explosion proof is necessary).

Is conform to the ATEX guideline 94/9/EG.

Density (DIN EN ISO 1183-1-A):  
1,24 g/cm<sup>3</sup>

**SILICONE FREE**



Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

Products in compliance with  
the directive EU 2015/863

## PUAS

Antistatic polyurethane tube



CODE	Ø ODxID	THICKNESS (mm)	BENDING RADIUS (mm)	MIN. BURSTING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUAS0425	4x2,5	0,75	9	45	9,5	50
PUAS0639	6x3,9	1,05	15	39	20,25	50
PUAS0857	8x5,7	1,15	28	31	30,69	50
PUAS1075	10x7,5	1,25	35	30	42,61	50
PUAS1209	12x9	1,5	50	29	61,36	50

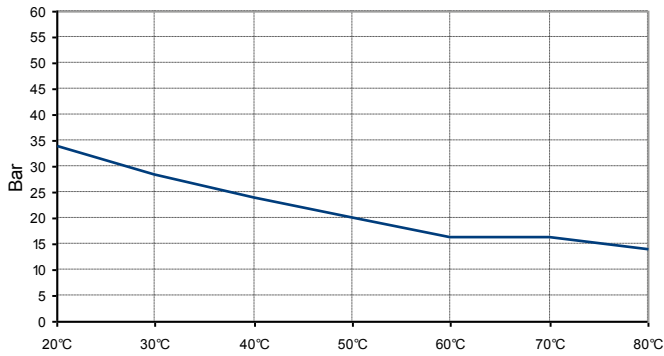
Sizes ODxID	Color
	● Black
4x2,5	PUAS0425NE
6x3,9	PUAS0639NE
8x5,7	PUAS0857NE
10x7,5	PUAS1075NE
12x9	PUAS1209NE



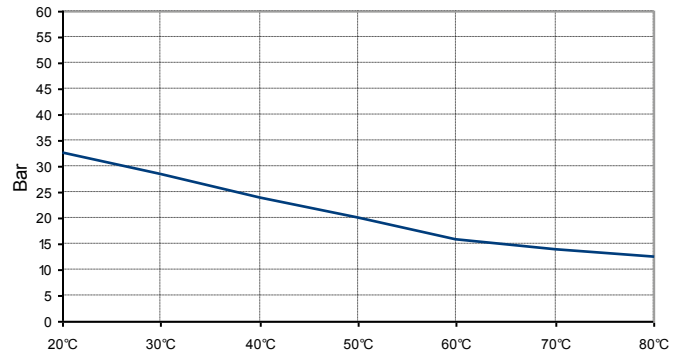
**WORKING PRESSURE - PUAS**

Limit of pressure load depending on temperature

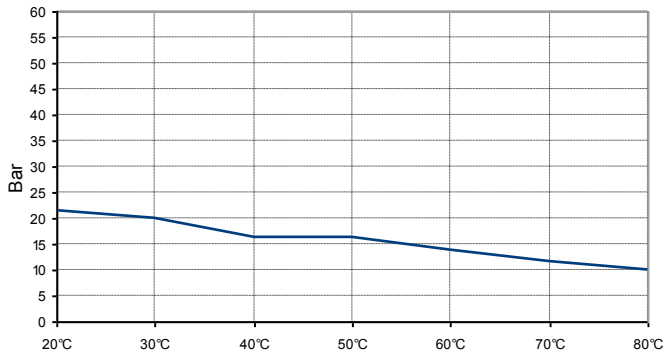
**4x2,5**



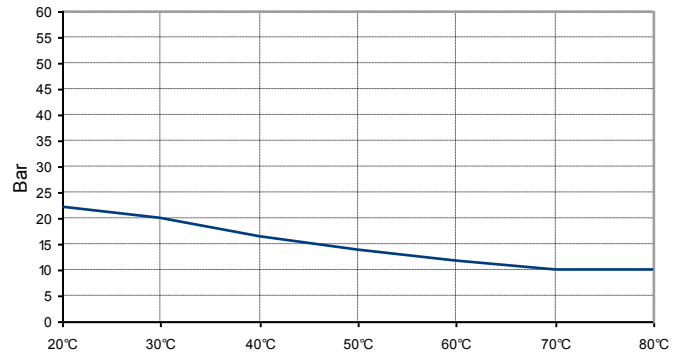
**6x3,9**



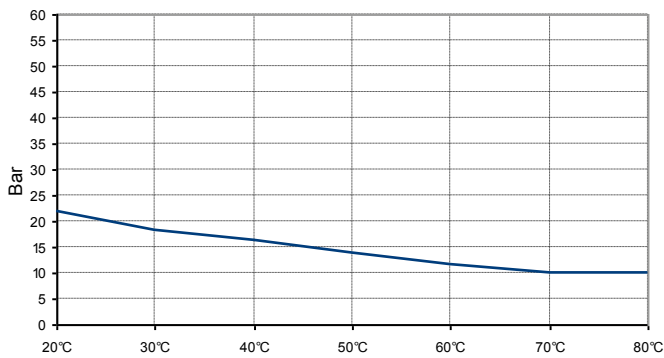
**8x5,7**



**10x7,5**



**12x9**



**TECHNICAL  
TUBES**  
ANTI-SPARK  
POLYURETHANE  
TUBE FLAMEX  
HYBRID

**PLUS**

**EXTREMELY RESISTANT TO ALL TYPES  
OF WELDING SPATTER AND SPARKS  
ENSURING DURABILITY OVER TIME**

**HALOGEN-FREE, FIRE-RESISTANT  
AND SELF-EXTINGUISHING IN  
CASE OF FIRE**

**FIRE RESISTANCE CLASSIFICATION  
LISTED UL94 FROM V2 TO V0**

**EASY AND FAST INSTALLATION  
WITH PUSH-IN FITTINGS THANKS  
TO MONOLAYER SURFACE**

**MICROBE RESISTANT AND  
EXCELLENT CHEMICAL RESISTANCE  
(TO MOST DETERGENTS AND  
SOLVENTS)**

**EXCELLENT UV RESISTANCE**

**EXCELLENT ABRASION RESISTANCE,  
CAN BE USED INSIDE CABLE DRAG  
CHAINS**

**RECYCABLE, APPROVED FOR  
DISPOSAL WITH COMMERCIAL  
WASTE**





p. 709 / **PUFA**



p. 711 / **PUFW**



p. 713 / **PUFH**





Environment temperature:  
-30°C ÷ 100°C  
The working temperature depends on the working pressure.



**Working pressure:**  
See pressure charts  
**Burst pressure:**  
See the table

**Negative pressure:**  
- 0,95 Bar ( - 95 Kpa)



Compressed air & vacuum



**Material:** Halogen-free and anti-spark polyurethane Flamex Hybrid

**FEATURES**

Our PUFA tube, special for air and other gasses, has excellent durability, strength and good material flexibility for smaller bending radii. The tube offers reliable protection against weld spatter and flying sparks. In the event of a fire, the material is self-extinguishing, which further increases workplace safety in industry or commerce.



Products in compliance with EC Regulation 1907/2006





Products in compliance with the directive EU 2015/863

**PUFA**

Anti-spark polyurethane tube flamex hybrid for air



CODE	Ø ODxID	THICKNESS (mm)	BENDING RADIUS (mm)	MIN. BURSTING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUFA0402	4x2	1	7	40	12	50
PUFA0804	8x4	2	15	47	48	50
PUFA1006	10x6	2	20	36	63	50
PUFA1208	12x8	2	28	30	78	50
PUFA1410	14x10	2	50	32	96	50
PUFA1611	16x11	2,5	55	34	135	50

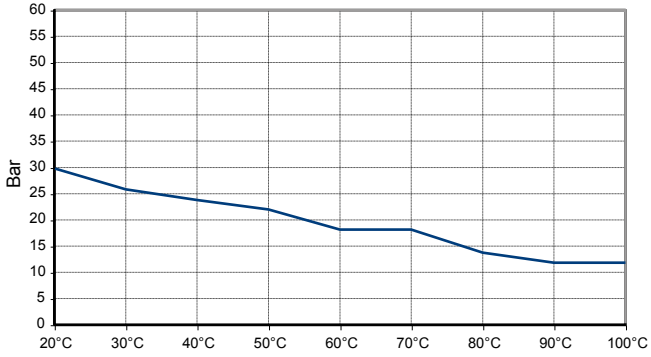
Sizes ODxID		
	Light blue	White
4x2	PUFA0402AZ	PUFA0402BO
8x4	PUFA0804AZ	PUFA0804BO
10x6	PUFA1006AZ	PUFA1006BO
12x8	PUFA1208AZ	PUFA1208BO
14x10	PUFA1410AZ	PUFA1410BO
16x11	PUFA1611AZ	PUFA1611BO



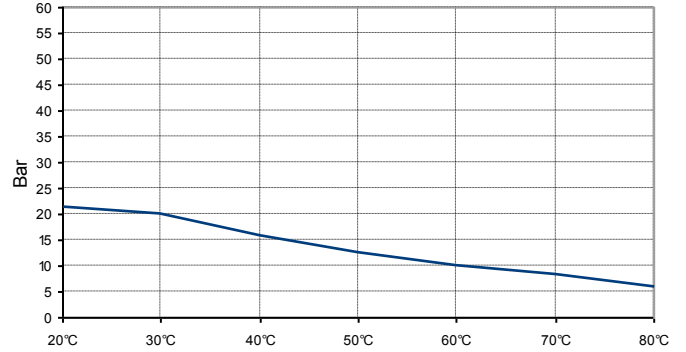
**WORKING PRESSURE - PUFA**

Limit of pressure load depending on temperature

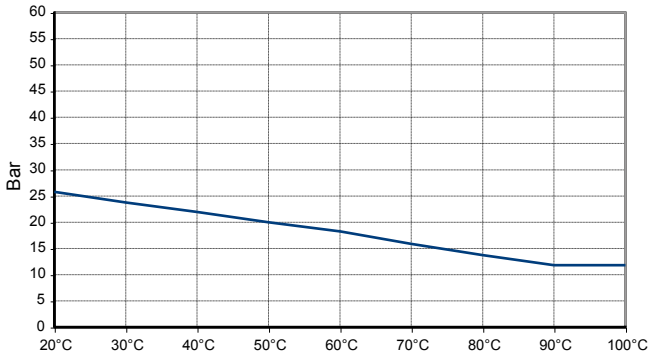
**4x2**



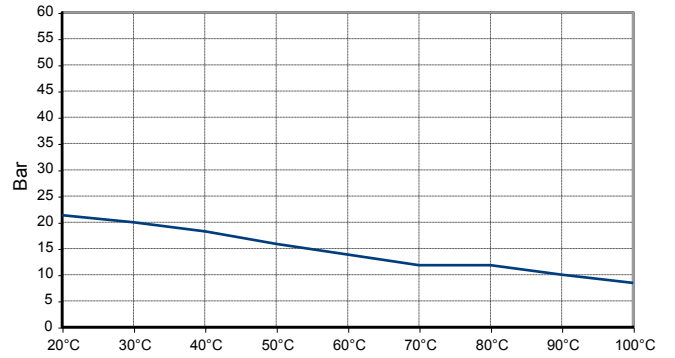
**8x4**



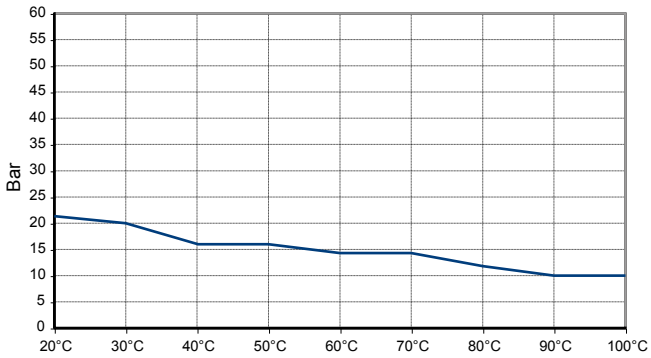
**10x6**



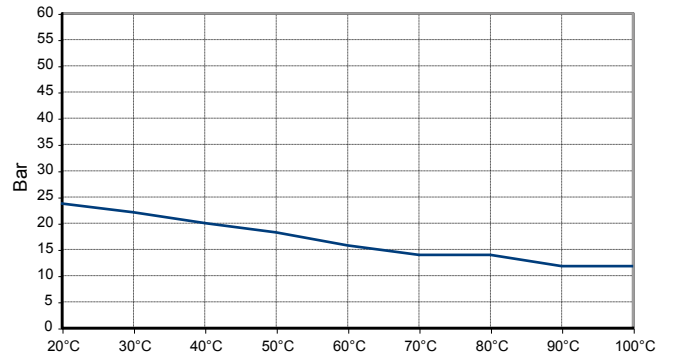
**12x8**



**14x10**



**16x11**





Environment temperature:  
-30°C ÷ 100°C  
The working temperature depends on the working pressure.



**Working pressure:**  
See pressure charts

**Burst pressure:**  
See the table

**Negative pressure:**  
- 0,95 Bar ( - 95 Kpa)



Water, compressed air, vacuum and fluids suitable with construction materials



**Material:** Halogen-free and anti-spark polyurethane Flamex Hybrid

**FEATURES**

Our PUFW tube, special for water and other liquids, has excellent resistance in difficult work environments. The tube offers reliable protection against weld spatter near welding facilities and against flying sparks from grinding machines. In the event of a fire, the material is self-extinguishing, which further increases workplace safety in industry or commerce.

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006





Products in compliance with the directive EU 2015/863

**PUFW**

Anti-spark polyurethane tube flamex hybrid for water and fluids



CODE	Ø ODxID	THICKNESS (mm)	BENDING RADIUS (mm)	MIN. BURSTING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUFW1006	10x6	2	20	29	60	50
PUFW1208	12x8	2	27	27	75	50
PUFW1410	14x10	2	50	25	90	50
PUFW1611	16x11	2,5	58	27	125	50

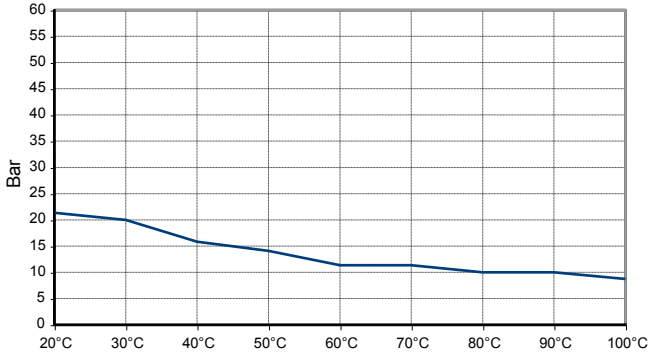
Sizes ODxID	 Red	 Green
10x6	PUFW1006RO	PUFW1006VD
12x8	PUFW1208RO	PUFW1208VD
14x10	PUFW1410RO	PUFW1410VD
16x11	PUFW1611RO	PUFW1611VD



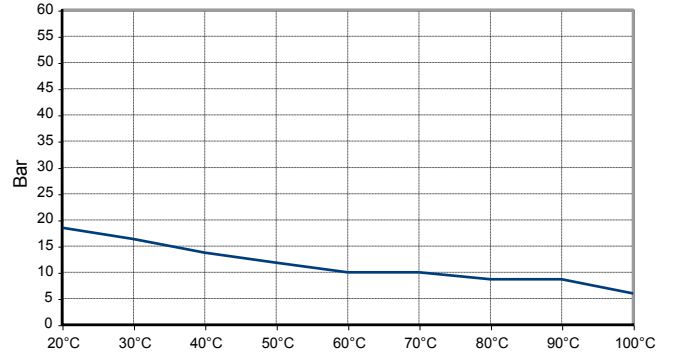
**WORKING PRESSURE - PUFW**

Limit of pressure load depending on temperature

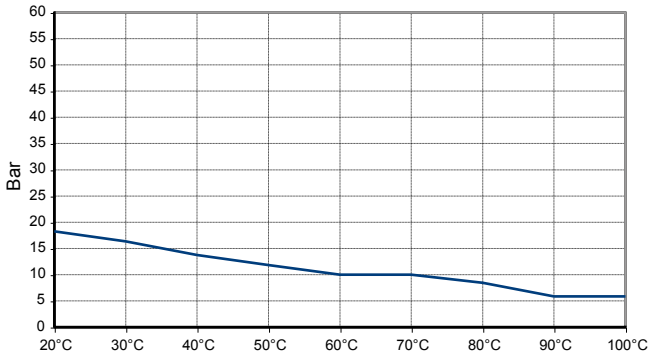
**10x6**



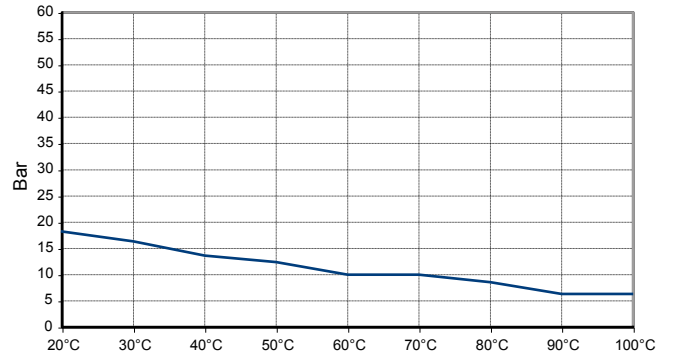
**12x8**



**14x10**



**16x11**







Environment temperature:  
-30°C ÷ 100°C  
The working temperature depends  
on the working pressure.



Working pressure:  
See pressure charts

Burst pressure:  
See the table

Negative pressure:  
- 0,95 Bar ( - 95 Kpa)



Compressed air, water,  
vacuum and fluids suitable with  
construction materials



Material: Halogen-free and  
anti-spark polyurethane Flamex  
Hybrid

#### FEATURES

Our PUFH hose, can withstand extreme stress thanks to the quality of the material it is made out of. The most important features are its resistance to maximum pressure whilst being in a vacuum and its resistance to welding spatter and flying sparks. In the event of a fire, the material is self-extinguishing, which further increases workplace safety in industry or commerce.

**SILICONE FREE**



Products in compliance with  
EC Regulation 1907/2006

**RoHS3**

Products in compliance with  
the directive EU 2015/863

## PUFH

Anti-spark polyurethane tube flamex hybrid for air & fluids



CODE	Ø ODxID	THICKNESS (mm)	BENDING RADIUS (mm)	MIN. BURSTING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUFH0402	4x2	1	7	60	12	50
PUFH0804	8x4	2	15	65	48	50
PUFH1006	10x6	2	20	51	64	50
PUFH1208	12x8	2	28	44	80	50
PUFH1410	14x10	2	45	38	96	50
PUFH1611	16x11	2,5	55	37	135	50

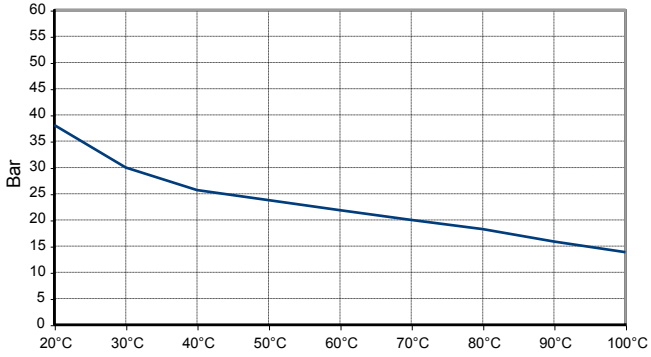
Sizes ODxID	Color	Code
	● Black	
4x2		PUFH0402
8x4		PUFH0804
10x6		PUFH1006
12x8		PUFH1208
14x10		PUFH1410
16x11		PUFH1611



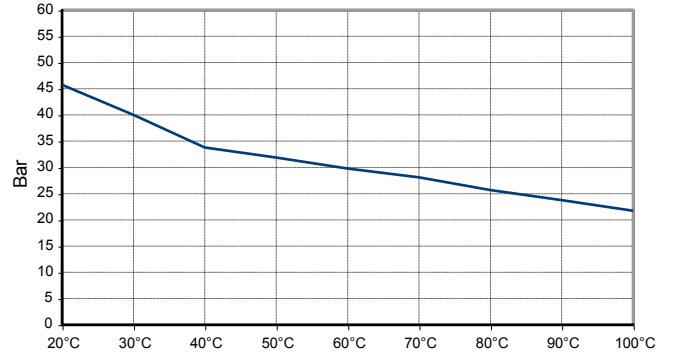
**WORKING PRESSURE - PUFH**

Limit of pressure load depending on temperature

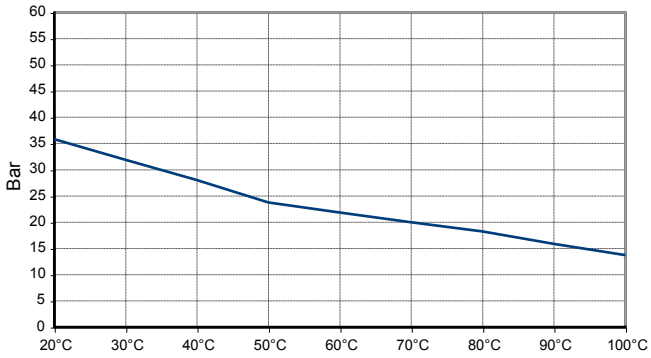
**4x2**



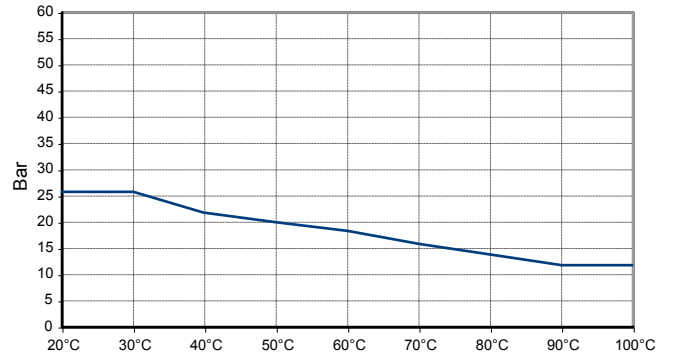
**8x4**



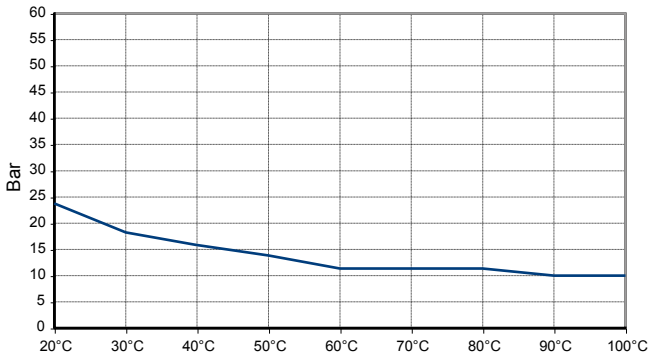
**10x6**



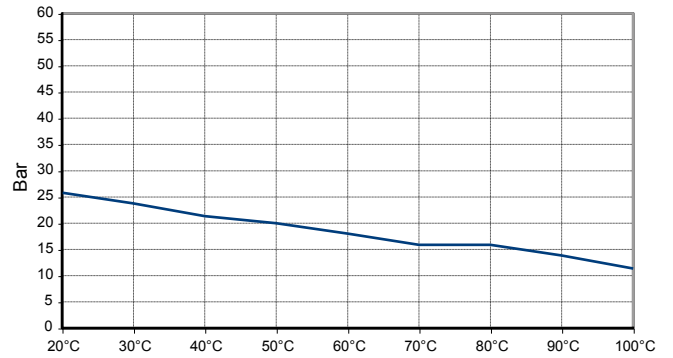
**12x8**



**14x10**



**16x11**



# **TECHNICAL TUBES** SELF- EXTINGUISHING POLYURETHANE TUBE

**PLUS**

**HALOGEN-FREE FLAME RETARDANT,  
SELF-EXSTINGUISHING IN CASE OF  
FIRE**

**RESISTANT TO HYDROLYSIS AND  
MICROBES**

**HIGH CHEMICAL RESISTANCE  
(RESISTANT TO MOST DETERGENTS,  
SOLVENTS AND OTHER FLUIDS  
CONTACT)**

**REDUCED BENDING RADIUS  
THAT ALLOWS IT TO BE USED IN  
CONFINED SPACES**

**EXCELLENT UV RESISTANCE**

**MAXIMUM ABRASION RESISTANCE,  
CAN BE USE IN CABLE DRAG  
CHAINS**

**RECYCABLES (THE BASE POLYMER  
CAN BE REUSED), EASILY DISPOSED  
OF AT THE END OF SERVICE LIFE**

**USED IN THE INTERNATIONAL  
AIRCRAFT CONSTRUCTION  
AND GERMAN RAILWAYS,  
CORRESPONDING STANDARDS  
REGARDING RAILWAY FIRE  
PROTECTION DIN 5510-2 (GERMAN  
STANDARD) AND NF F 16-101  
(FRENCH STANDARD)**





p. 717 / **PUKS**

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**Environment temperature:**  
-30°C ÷ 100°C  
The working temperature depends on the working pressure.



**Working pressure:**  
6 - 8 Bar (standard)  
See table for pressure at 20°C

**Burst pressure:**  
See the table

**Negative pressure:**  
- 0,95 Bar (- 95 Kpa)



Compressed air, vacuum, water, gas and fluids suitable with construction materials

**AVAILABILITY**

Available on request and minimum order quantity PUKN tube that meets all requirements of the new European railway regulation EN 45545.



**Material:** Polyurethane with non-halogen flame retardants

**FEATURES**

- Hardness (DIN ISO 7619-1): 58 Shore D
- Tensile strength (DIN53504-S2/ISO37): 30 MPa
- Abrasion (DIN4649-A): 30 mm<sup>3</sup>
- Density (DIN EN ISO 1183-1-A): 1,27 g/cm<sup>3</sup>



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**PUKS**

Self-extinguishing polyurethane tube



CODE	Ø ODxID	THICKNESS (mm)	BENDING RADIUS (mm)	WORKING PRESSURE AT 20°C (Bar)	MIN. BURSTING PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (mt)
PUKS0604	6x4	1	14	22	37	19,95	50
PUKS0857	8x5,7	1,15	28	18	32	31,43	50
PUKS1075	10x7,5	1,25	38	16	28	43,64	50
PUKS1209	12x9	1,5	45	20	30	62,84	50
PUKS1410	14x10	2	45	24	38	95,76	50
PUKS1611	16x11	2,5	55	28	37	134,66	50

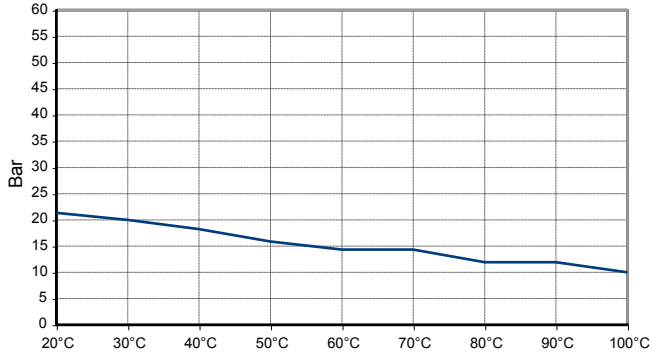
Sizes ODxID	Light blue
6x4	PUKS0604AZ
8x5,7	PUKS0857AZ
10x7,5	PUKS1075AZ
12x9	PUKS1209AZ
14x10	PUKS1410AZ
16x11	PUKS1611AZ



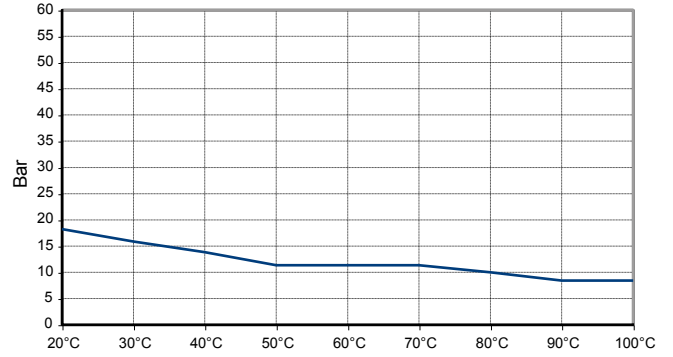
**WORKING PRESSURE - PUKS**

Limit of pressure load depending on temperature

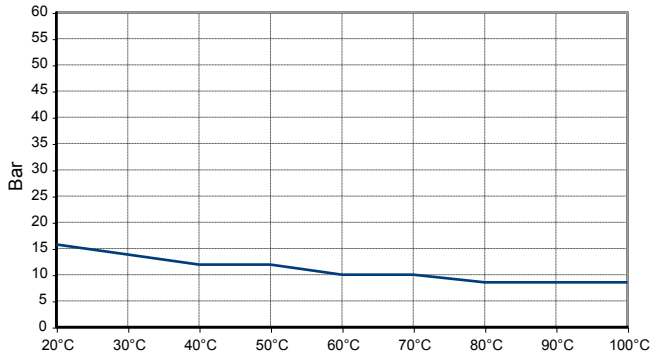
**6x4**



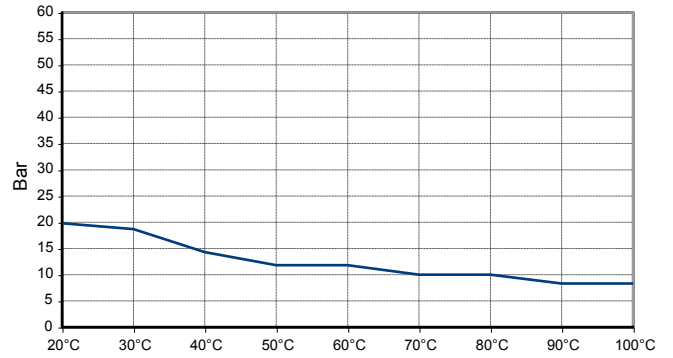
**8x5,7**



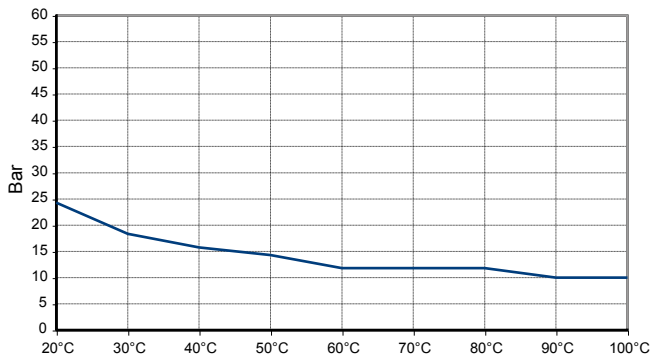
**10x7,5**



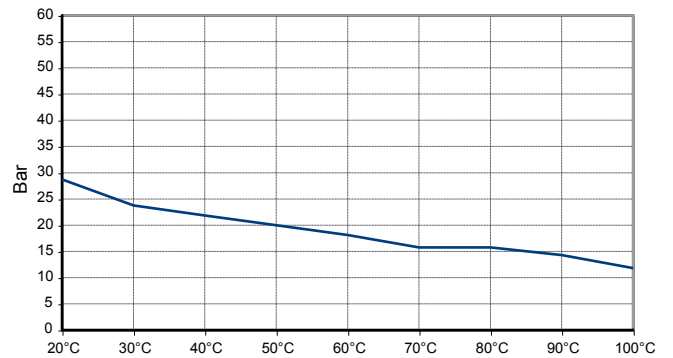
**12x9**



**14x10**



**16x11**



**TECHNICAL  
TUBES**  
POLYAMIDE  
TUBE PA12

**PLUS**

**HIGH TENSILE STRENGTH**

---

**GOOD FLEXIBILITY, ALSO AT LOW  
TEMPERATURE**

---

**GOOD AGEING RESISTANCE**

---

**GOOD RESISTANCE TO  
HYDROCARBONS AND OIL**

---

**HIGH CHEMICAL AND HYDROLYSIS  
RESISTANCE**

---

**WIDE RANGE OF COLOURS  
AVAILABLE**





p. 722 / **PA12**



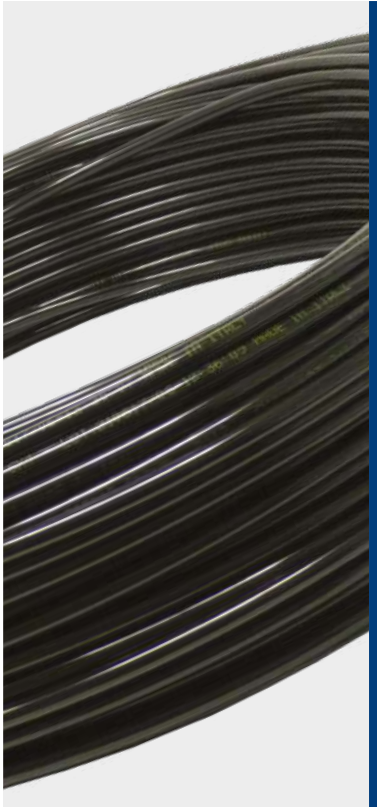
p. 723 / **PA12-BX**



p. 723 / **PA12-INCH**







-40°C ÷ 80°C  
For water-based fluids the working temperature at max. +70°C



**Working pressure:**  
See table for pressure at 23°C

**Burst pressure:**  
See the table



Compressed air, vacuum and fluids suitable with construction materials



**Material:** Polyamide according to DIN 74324 and 73378

**FEATURES**

- Hardness (ISO 868): 65 Shore D
- Tensile stress at break (ISO R527): 50 MPa
- Elongation at break (ISO R527): 300 %
- Tensile strength modulus (ISO R527): 400 MPa
- Bending modulus (ISO 178): 400 MPa
- Density (ISO R 1183D) 1,03 g/cm<sup>3</sup>

**SILICONE FREE**

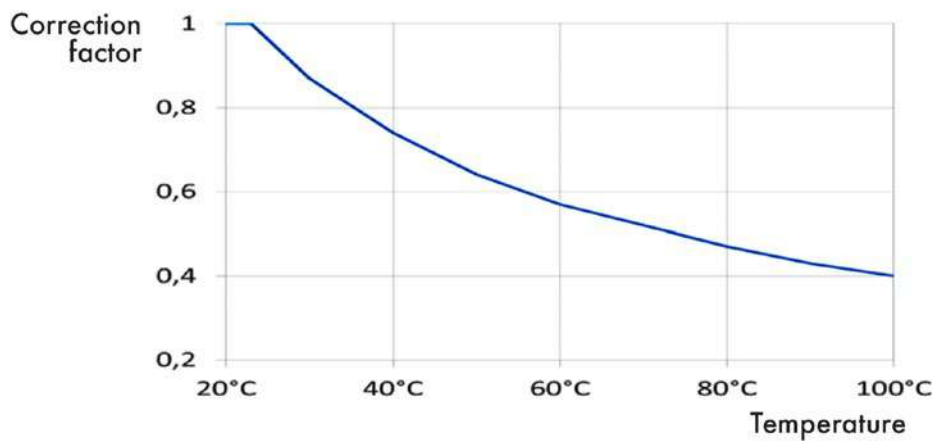


Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

**PRESSURE CORRECTION SCALE ACCORDING TO TEMPERATURE**








**PA12**

Polyamide tube PA12



CODE	Ø ODxID	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 23°C (Bar)	BURSTING PRESSURE AT 23°C (Bar)	g/m	Q.TY FOR ROLL (mt)
PA12-0402-Z	4x2	1	16	44	132	9,7	100
PA12-0425-Z	4x2,5	0,75	24	31	93	7,9	100
PA12-0427-Z	4x2,7	0,65	26	23	69	7	100
PA12-0604-Z	6x4	1	30	28	84	16,2	100
PA12-0806-Z	8x6	1	40	20	60	22,6	100
PA12-1007-Z	10x7	1,5	58	23	69	41,2	50
PA12-1008-Z	10x8	1	60	16	48	29,1	50
PA12-1208-Z	12x8	2	60	28	84	64,7	50
PA12-1209-Z	12x9	1,5	60	20	60	50,9	50
PA12-1210-Z	12x10	1	85	12	36	35,6	50
PA12-1412-Z	14x12	1	90	10	30	42	50
PA12-15125-Z	15x12,5	1,25	100	12	36	55,6	50
PA12-1614-Z	16x14	1	120	9	27	48,5	50

Sizes ODxID	 Blue	 * Black	 Red	 Green	 Natural
4x2	PA12-0402BL-Z	PA12-0402NE-Z	PA12-0402RO-Z	PA12-0402VD-Z	PA12-0402NU-Z
4x2,5	PA12-0425BL-Z	PA12-0425NE-Z			PA12-0425NU-Z
4x2,7	PA12-0427BL-Z	PA12-0427NE-Z	PA12-0427RO-Z	PA12-0427VD-Z	PA12-0427NU-Z
6x4	PA12-0604BL-Z	PA12-0604NE-Z	PA12-0604RO-Z	PA12-0604VD-Z	PA12-0604NU-Z
8x6	PA12-0806BL-Z	PA12-0806NE-Z	PA12-0806RO-Z	PA12-0806VD-Z	PA12-0806NU-Z
10x7	PA12-1007BL-Z	PA12-1007NE-Z			PA12-1007NU-Z
10x8	PA12-1008BL-Z	PA12-1008NE-Z	PA12-1008RO-Z	PA12-1008VD-Z	PA12-1008NU-Z
12x8	PA12-1208BL-Z	PA12-1208NE-Z			PA12-1208NU-Z
12x9	PA12-1209BL-Z	PA12-1209NE-Z			PA12-1209NU-Z
12x10	PA12-1210BL-Z	PA12-1210NE-Z	PA12-1210RO-Z	PA12-1210VD-Z	PA12-1210NU-Z
14x12	PA12-1412BL-Z	PA12-1412NE-Z			PA12-1412NU-Z
15x12,5	PA12-15125BL-Z	PA12-15125NE-Z			PA12-15125NU-Z
16x14	PA12-1614BL-Z	PA12-1614NE-Z			PA12-1614NU-Z






\* PA12: The BLACK coloured tube is suitable for outdoor applications



## PA12-BX

Polyamide tube PA12 in 25m box



Sizes ODxID	 Blue	 * Black	 Red	 Green	 Natural
4x2	PA12-0402BL-25BX	PA12-0402NE-25BX	PA12-0402RO-25BX	PA12-0402VD-25BX	PA12-0402NU-25BX
4x2,5	PA12-0425BL-25BX	PA12-0425NE-25BX			PA12-0425NU-25BX
4x2,7	PA12-0427BL-25BX	PA12-0427NE-25BX	PA12-0427RO-25BX	PA12-0427VD-25BX	PA12-0427NU-25BX
6x4	PA12-0604BL-25BX	PA12-0604NE-25BX	PA12-0604RO-25BX	PA12-0604VD-25BX	PA12-0604NU-25BX
8x6	PA12-0806BL-25BX	PA12-0806NE-25BX	PA12-0806RO-25BX	PA12-0806VD-25BX	PA12-0806NU-25BX
10x7	PA12-1007BL-25BX	PA12-1007NE-25BX			PA12-1007NU-25BX
10x8	PA12-1008BL-25BX	PA12-1008NE-25BX	PA12-1008RO-25BX	PA12-1008VD-25BX	PA12-1008NU-25BX

\* PA12: The BLACK coloured tube is suitable for outdoor applications





## PA12-INCH

Polyamide tube PA12 in inches



CODE	DN	Ø ODxID (mm)	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 23 °C (Bar)	BURSTING PRESSURE AT 23 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PA12-5/32-Z	5/32"	4x2,38	0,81	12,7	28	84	8,4	100
PA12-3/16-Z	3/16"	4,75x2,97	0,89	19,1	28	84	11,1	100
PA12-1/4-Z	1/4"	6,35x4,35	1	25,4	28	84	17,3	100
PA12-5/16-Z	5/16"	8x6	1	32	23	70	22,7	100
PA12-3/8-Z	3/8"	9,53x6,39	1,57	52	32	97	40	100
PA12-1/2-Z	1/2"	12,7x9,56	1,57	65	22	66	56	100



Sizes DN	 Blue	 * Black	 Red	 Yellow
5/32"	PA12-5/32BL-Z	PA12-5/32NE-Z	PA12-5/32RO-Z	PA12-5/32GL-Z
3/16"	PA12-3/16BL-Z	PA12-3/16NE-Z	PA12-3/16RO-Z	PA12-3/16GL-Z
1/4"	PA12-1/4BL-Z	PA12-1/4NE-Z	PA12-1/4RO-Z	PA12-1/4GL-Z
5/16"	PA12-5/16BL-Z	PA12-5/16NE-Z	PA12-5/16RO-Z	PA12-5/16GL-Z
3/8"	PA12-3/8BL-Z	PA12-3/8NE-Z	PA12-3/8RO-Z	PA12-3/8GL-Z
1/2"	PA12-1/2BL-Z	PA12-1/2NE-Z	PA12-1/2RO-Z	PA12-1/2GL-Z

\* PA12-INCH: The BLACK coloured tube is suitable for outdoor applications



# TECHNICAL TUBES POLYETHYLENE TUBE



PLUS

**COMPLIES TO FDA DIRECTIVE**

**COMPATIBLE WITH DIFFERENT  
CHEMICALS**

**GOOD COMPROMISE BETWEEN  
PRESSURE AND TEMPERATURE**

**APPROVED FOR PERMANENT  
CONTACT WITH BEVERAGES AND  
FOOD PRODUCTS**

**WIDE RANGE OF COLOURS TO  
DIFFERENTIATE LIQUIDS**



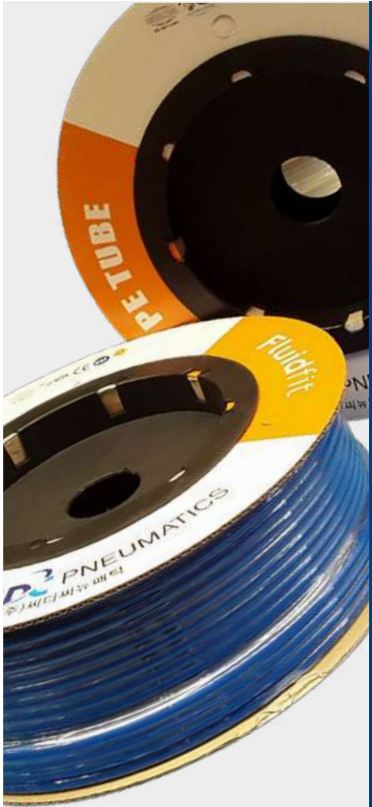


p. 727 / **PE**



p. 728 / **PE-INCH**





-29°C ÷ 66°C

#### Working pressure:

See the table



#### Burst pressure:

See the table

#### Negative pressure:

- 0,95 Bar ( - 95 Kpa)



Compressed air & vacuum,  
suitable for purifiers, water  
conditioners, ice machines,  
nebulisers and food contact  
applications



Material: Polyethylene

#### FEATURES

- Tensile strength at break (MD): 430 kg/cm<sup>2</sup>
- Tensile strength at break (TD): 360 kg/cm<sup>2</sup>
- Elongation at break (MD): 750 %
- Elongation at break (TD): 850 %
- Density: 0,919 g/cm<sup>3</sup>



Food contact materials  
EC 1935/2004



D.M. 174/2004



ICIM certified product  
food contact materials



ICIM certified product  
water contact materials



ACS certified tube for  
black and blue colours



NSF51 / NSF61  
NSF certificate on behalf of  
CDC PNEUMATICS CORP.

**SILICONE FREE**



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863








## PE

## Polyethylene metric tube



CODE	Ø ODxID	TOLERANCE Ø OD	THICKNESS (mm)	MIN. BENDING RADIUS AT 23 °C (mm)	WORKING PRESSURE AT 20 °C (Bar)	MAX. WORKING PRESSURE (Bar)	BURSTING PRESSURE AT 23 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PE0425...FF	4x2,5	±0,08	0,75	25	15	16	30	9,65	200
PE0604...FF	6x4	±0,08	1	25	15	16	30	19,8	100
PE0806...FF	8x6	±0,08	1	25	10	12	20	25,5	100
PE1007...FF	10x7	±0,08	1,5	32	10	12	20	45,1	100
PE1209...FF	12x9	±0,08	1,5	63	10	12	20	50,6	100



Sizes ODxID	 Natural	 Black	 White	 Red	 Blue	 Green	 Yellow
4x2,5	PE0425NU-FF	PE0425NE-FF	PE0425BO-FF	PE0425RO-FF	PE0425BL-FF	PE0425VD-FF	PE0425GL-FF
6x4	PE0604NU-FF	PE0604NE-FF	PE0604BO-FF	PE0604RO-FF	PE0604BL-FF	PE0604VD-FF	PE0604GL-FF
8x6	PE0806NU-FF	PE0806NE-FF	PE0806BO-FF	PE0806RO-FF	PE0806BL-FF	PE0806VD-FF	PE0806GL-FF
10x7	PE1007NU-FF	PE1007NE-FF	PE1007BO-FF	PE1007RO-FF	PE1007BL-FF	PE1007VD-FF	PE1007GL-FF
12x9	PE1209NU-FF	PE1209NE-FF	PE1209BO-FF	PE1209RO-FF	PE1209BL-FF	PE1209VD-FF	PE1209GL-FF








**PE-INCH**

Polyethylene inch tube



CODE	DN	TOLERANCE Ø OD	THICKNESS (mm)	MIN. BENDING RADIUS AT 23 °C (mm)	WORKING PRESSURE AT 20 °C (Bar)	MAX. WORKING PRESSURE (Bar)	BURSTING PRESSURE AT 23 °C (Bar)	g/m	Q.TY FOR ROLL (mi)
PE3/16..-FF	3/16"	±0,08	0,79	25,4	15	16	30	12,2	200
PE1/4..-FF	1/4"	±0,08	1,02	25,4	15	16	30	19,8	100
PE5/16..-FF	5/16"	±0,08	1,22	28,7	10	12	20	31,2	100
PE3/8..-FF	3/8"	±0,08	1,58	31,8	10	12	20	45,6	100
PE1/2..-FF	1/2"	±0,08	1,58	63,5	10	12	20	60,1	100

**PE-INCH:** For the Ø5/32" tube we recommend PE0425..-FF

Sizes DN	 Natural	 Black	 White	 Red	 Blue	 Green	 Yellow
3/16"	PE3/16NU-FF	PE3/16NE-FF	PE3/16BO-FF	PE3/16RO-FF	PE3/16BL-FF	PE3/16VD-FF	PE3/16GL-FF
1/4"	PE1/4NU-FF	PE1/4NE-FF	PE1/4BO-FF	PE1/4RO-FF	PE1/4BL-FF	PE1/4VD-FF	PE1/4GL-FF
5/16"	PE5/16NU-FF	PE5/16NE-FF	PE5/16BO-FF	PE5/16RO-FF	PE5/16BL-FF	PE5/16VD-FF	PE5/16GL-FF
3/8"	PE3/8NU-FF	PE3/8NE-FF	PE3/8BO-FF	PE3/8RO-FF	PE3/8BL-FF	PE3/8VD-FF	PE3/8GL-FF
1/2"	PE1/2NU-FF	PE1/2NE-FF	PE1/2BO-FF	PE1/2RO-FF	PE1/2BL-FF	PE1/2VD-FF	PE1/2GL-FF





**TECHNICAL  
TUBES  
CALIBRATED  
PTFE TUBE**



**PLUS**

---

**GOOD FLEXIBILITY**

---

**EXCELLENT RESISTANCE TO AGING**

---

**TOTAL CHEMICAL INERTIA**

---

**HIGH TENSILE STRENGTH AND HIGH  
TEMPERATURE RESISTANCE (UP TO  
260°C)**

---

**GOOD ISOLATION CAPACITY**



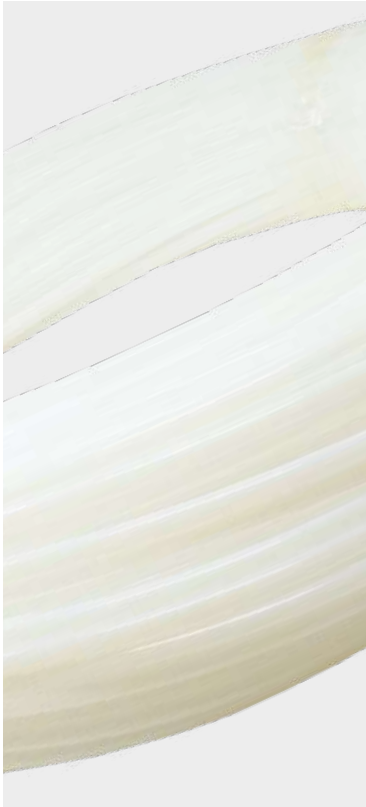



p. 732 / **PTFE-C**



p. 732 / **PTFE-C-BX**







 -70°C ÷ 260°C

 Working pressure:  
See the table

**Burst pressure:**  
See the table

 Compressed air, vacuum,  
water and fluids suitable with  
construction materials

 **Material:** Calibrated Teflon  
PTFE (made by a process called  
'paste extrusion' typical of this  
material)

**FEATURES**

- Hardness (ISO 868):  
65 Shore D
- Elongation at break:  
200 - 370 %
- Tensile strength:  
> 20 MPa
- Density:  
2,13 - 2,23 g/cm<sup>3</sup>



Food contact materials  
EC 1935/2004



D.M. 174/2004



**SILICONE FREE**



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**POSSIBILITY OF USING PRESSURE AS A FUNCTION OF TEMPERATURE**

	-60 °C ÷ 23 °C	+40 °C ÷ 100 °C	+100 °C ÷ 150 °C	+150 °C ÷ 200 °C	+200 °C ÷ 260 °C
PERCENTAGE	100%	90%	55%	30%	10%






**PTFE-C**

Calibrated teflon PTFE tube






CODE	Ø ODxID	TOLERANCE ØOD (mm)	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 20°C (Bar)	BURSTING PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (mt)
PTFE-C0402	4x2	± 0,1	1	15	37	110	21	100
PTFE-C0425	4x2,5	± 0,1	0,75	15	22	65	17	100
PTFE-C0604	6x4	± 0,1	1	35	22	66	35	100
PTFE-C0806	8x6	± 0,1	1	65	14	42	49	100
PTFE-C1008	10x8	± 0,15	1	100	11	32	62	100
PTFE-C1210	12x10	± 0,15	1	150	10	30	76	100
PTFE-C1412	14x12	± 0,2	1	200	8	24	90	50
PTFE-C1613	16x13	± 0,2	1,5	150	10	30	150	50

Sizes Ø ODxID	 Blue	 Red	 Natural
4x2			PTFE-C0402NU100
4x2,5	PTFE-C0425BL100	PTFE-C0425RO100	PTFE-C0425NU100
6x4	PTFE-C0604BL100	PTFE-C0604RO100	PTFE-C0604NU100
8x6	PTFE-C0806BL100	PTFE-C0806RO100	PTFE-C0806NU100
10x8	PTFE-C1008BL100	PTFE-C1008RO100	PTFE-C1008NU100
12x10	PTFE-C1210BL100	PTFE-C1210RO100	PTFE-C1210NU100
14x12	PTFE-C1412BL50	PTFE-C1412RO50	PTFE-C1412NU50
16x13	PTFE-C1613BL50	PTFE-C1613RO50	PTFE-C1613NU50

**PTFE-C-BX**

Calibrated teflon PTFE tube in 25m box



Sizes Ø ODxID	 Blue	 Red	 Natural
4x2			PTFE-C0402NU100-25BX
4x2,5	PTFE-C0425BL100-25BX	PTFE-C0425RO100-25BX	PTFE-C0425NU100-25BX
6x4	PTFE-C0604BL100-25BX	PTFE-C0604RO100-25BX	PTFE-C0604NU100-25BX
8x6	PTFE-C0806BL100-25BX	PTFE-C0806RO100-25BX	PTFE-C0806NU100-25BX
10x8	PTFE-C1008BL100-25BX	PTFE-C1008RO100-25BX	PTFE-C1008NU100-25BX



**TECHNICAL  
TUBES**  
CALIBRATED  
FEP TUBE



**PLUS**

**EXCELLENT CHEMICAL RESISTANCE**

---

**WIDE RANGE OF WORKING  
TEMPERATURES**

---

**RESISTANT TO UV RAYS**

---

**NON-STICKING**

---

**EXCELLENT DIELECTRIC RESISTANCE**

---

**NON-FLAMMABLE**

---

**EXTREMELY SMOOTH SURFACE**

---

**EXCELLENT TRANSPARENCY IN  
COLOURING**

---

**RESTRICTED DIMENSIONAL  
TOLERANCES**





p. 735 / **FEP**



p. 736 / **FEP-BX**







 -60°C ÷ 200°C

 Working pressure:  
See the table

**Burst pressure:**  
See the table

 Compressed air, vacuum,  
water and fluids suitable with  
construction materials

 **Material:** Calibrated FEP  
(melt processable fluoropolymer  
resins)

**FEATURES**

- Hardness:  
55 - 60 Shore D
- Elongation at break:  
250 - 350 %
- Tensile strength at 23°C:  
19 - 25 MPa
- Density:  
2,12 - 2,17 g/cm<sup>3</sup>



Food contact materials  
EC 1935/2004



D.M. 174/2004



Products in compliance with  
EC Regulation 1907/2006



Products in compliance with  
the directive EU 2015/863

**PRESSURE CORRECTION SCALE ACCORDING TO THE TEMPERATURE**

	-40°C ÷ 0°C	0°C ÷ 20°C	20°C ÷ 40°C	40°C ÷ 70°C	70°C ÷ 100°C	100°C ÷ 160°C	> 160°C
<b>PRESSURE CORRECTION FACTOR</b>	1,1	1	0,8	0,6	0,4	0,3	0,2


**FEP**

Calibrated FEP tube



CODE	Ø ODxID	TOLERANCE Ø ODxID	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE (Bar)	BURSTING PRESSURE (Bar)	g/m	Q.TY FOR ROLL (mt)
FEP0315	3x1,5	±0,05	0,75	15	35	105	13	100
FEP0425	4x2,5	±0,05	0,75	25	22	66	17	100
FEP0604	6x4	±0,07	1	35	19	57	35	100
FEP0806	8x6	±0,07	1	40	14	42	48	100




Sizes Ø ODxID	 Transparent
3x1,5	FEPO315TR
4x2,5	FEPO425TR
6x4	FEPO604TR
8x6	FEPO806TR

**FEP-BX**

Calibrated FEP tube in 25m box



Sizes Ø ODxID	 Transparent
3x1,5	FEPO315TR-25BX
4x2,5	FEPO425TR-25BX
6x4	FEPO604TR-25BX
8x6	FEPO806TR-25BX





**TECHNICAL  
TUBES  
SILICONE  
TUBE**



**PLUS**

**MANY APPLICATIONS IN  
INDUSTRIAL AND FOOD SECTORS**

---

**OPTIMAL FOR USE WITH FOOD  
FLUIDS, SUITABLE FOR BEVERAGE  
AND COFFEE MACHINES**

---

**GOOD OXIDATION RESISTANCE**





p. 739 / **SI-FQ**

---





-60°C ÷ 200°C

**Working pressure:**

See the table

**Burst pressure:**

See the table

Compressed air, vacuum,  
water and fluids suitable with  
construction materials**Material:** Silicone**FEATURES**

- Hardness:  
55 - 65 Shore A
- Elongation at break (DIN53504 S2):  
300 - 330 %
- Tensile strength at 23°C (DIN 53504 S2):  
8 - 10 MPa
- Density:  
1,15 - 1,19 g/cm<sup>3</sup>
- Tolerance:  
ISO 3302-1 E2 Class


Food contact materials  
EC 1935/2004Products in compliance with  
EC Regulation 1907/2006Products in compliance with  
the directive EU 2015/863**SI-FQ**

## Silicone tube



CODE	Ø ID×OD	TOLERANCE Ø ID	TOLERANCE Ø OD	THICKNESS (mm)	WORKING PRESSURE AT 20°C (Bar)	BURSTING PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (mt)
SI0305FQ	3x5	±0,5	±0,4	1	2	6	16	100
SI0306FQ	3x6	±0,5	±0,4	1,5	2,5	7,5	27	100
SI3506FQ	3,5x6	±0,5	±0,4	1,25	3	9	23	100
SI0406FQ	4x6	±0,5	±0,4	1	3,5	10,5	20	100
SI0407FQ	4x7	±0,7	±0,4	1,5	3,2	9,6	33	100
SI0508FQ	5x8	±0,7	±0,5	1,5	3,4	10,2	39	100
SI0609FQ	6x9	±0,7	±0,5	1,5	3,7	11,1	45	100
SI0610FQ	6x10	±0,8	±0,5	2	4	12	63	100
SI0811FQ	8x11	±0,8	±0,7	1,5	3,9	11,7	56	100
SI0812FQ	8x12	±0,8	±0,7	2	4,2	13,6	80	100
SI0912FQ	9x12	±0,8	±0,7	1,5	4	12	62	100
SI1013FQ	10x13	±0,8	±0,8	1,5	4,4	13,2	68	100
SI1014FQ	10x14	±0,8	±0,8	2	5	15	95	100
SI1215FQ	12x15	±0,8	±0,8	1,5	4,7	14,1	80	100



Sizes Ø IDxOD	 Transparent
3x5	SI0305FQ
3x6	SI0306FQ
3,5x6	SI3506FQ
4x6	SI0406FQ
4x7	SI0407FQ
5x8	SI0508FQ
6x9	SI0609FQ
6x10	SI0610FQ
8x11	SI0811FQ
8x12	SI0812FQ
9x12	SI0912FQ
10x13	SI1013FQ
10x14	SI1014FQ
12x15	SI1215FQ



**TECHNICAL  
TUBES**  
PVC CRYSTAL  
CLEAR TUBE

**PLUS**

**SUITABLE FOR AIR AND LIQUIDS**

---

**NON-TOXIC**

---

**TRANSPARENT TO ALLOW  
VISUALISATION OF THE FLUID AND  
CLEANING**

---

**EXCELLENT FLEXIBILITY FOR SAVING  
SPACE IN INSTALLATIONS**





p. 743 / **PVC**

---





-10°C ÷ 50°C



Compressed air, vacuum and fluids suitable with construction materials



Material: Single layer transparent PVC

#### FEATURES

- Hardness:  
75 Shore A
- Breaking load at 23°C:  
≥ 13,5 N/mm<sup>2</sup>
- Elongation at break at 23°C:  
≥ 350 %
- Density (at 23°C):  
1,22 g/cm<sup>3</sup>

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863


## PVC

### Single layer transparent PVC tube



CODE	Ø IDxOD	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	g/m	Q.TY FOR ROLL (mt)
PVC0406	4x6	1	32	19	200
PVC0407	4x7	1,5	32	32	200
PVC0609	6x9	1,5	48	45	100
PVC0710	7x10	1,5	56	50	100
PVC0812	8x12	2	64	75	100
PVC1014	10x14	2	80	92	100
PVC1217	12x17	2,5	120	140	100
PVC1419	14x19	2,5	140	155	100
PVC1622	16x22	3	160	215	50
PVC1824	18x24	3	175	240	50
PVC2027	20x27	3,5	200	310	50
PVC2533	25x33	4	250	440	50



Sizes Ø IDxOD	 Transparent
4x6	PVC0406
4x7	PVC0407
6x9	PVC0609
7x10	PVC0710
8x12	PVC0812
10x14	PVC1014
12x17	PVC1217
14x19	PVC1419
16x22	PVC1622
18x24	PVC1824
20x27	PVC2027
25x33	PVC2533





**TECHNICAL  
TUBES**  
PVC CRYSTAL  
REINFORCED  
TUBE

**PLUS**

**NON-TOXIC**

---

**PVC IN POLYESTER AT HIGH  
TENACITY**

---

**RESISTANT TO CLIMATE FACTORS/  
WEATHER ELEMENTS**

---

**TRASPARENT TO ALLOW  
VISUALISATION OF THE FLUID AND  
CLEANING**

---

**EXCELLENT FLEXIILITY FOR SAVING  
SPACE IN INSTALLATIONS**

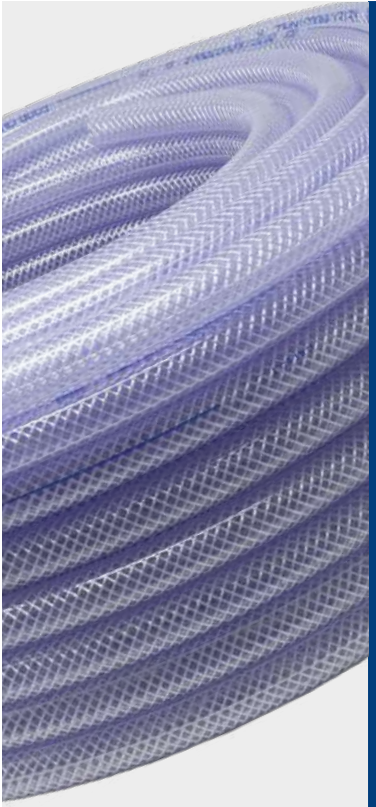




p. 747 / **PVC-RT**

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-20°C ÷ 60°C

**Working pressure:**

See the table

**Burst pressure:**

See the table



Compressed air, vacuum and fluids suitable with construction materials

**Material:** Double layer PVC with high tenacity polyester reinforcement (hPES)**FEATURES**

- Hardness: 75 Shore A
- Breaking load at 23°C:  $\geq 13,5 \text{ N/mm}^2$
- Elongation at break at 23°C:  $\geq 350 \%$
- Density (at 23°C):  $1,22 \text{ g/cm}^3$

**SILICONE FREE**

Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863


**PVC-RT**

## Flexible PVC braided tube



CODE	Ø IDxOD	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 22 °C (Bar)	BURSTING PRESSURE AT 22 °C (Bar)	g/m	Q.TY FOR ROLL (mt)
PVC-RT0612	6x12	3	18	20	60	105	50
PVC-RT0814	8x14	3	25	20	60	125	50
PVC-RT1016	10x16	3	32	20	60	150	50
PVC-RT1218	12x18	3	35	20	60	170	50
PVC-RT1420	14x20	3	57	15	45	195	50
PVC-RT1622	16x22	3	60	15	45	215	50
PVC-RT1926	19x26	3,5	70	15	45	300	50
PVC-RT2533	25x33	4	110	10	30	440	50



Sizes Ø IDxOD	 Trasparente
6x12	PVC-RT0612
8x14	PVC-RT0814
10x16	PVC-RT1016
12x18	PVC-RT1218
14x20	PVC-RT1420
16x22	PVC-RT1622
19x26	PVC-RT1926
25x33	PVC-RT2533



**TECHNICAL  
TUBES**  
POLYURETHANE  
TUBE WITH  
NON-TOXIC PVC  
INNER LAYER

**PLUS**

**EXCELLENT FLEXIBILITY AND  
LIGHTNESS FOR IMPROVED  
ERGONOMICS**

**SUITABLE FOR PNEUMATIC TOOLS,  
PAINT GUNS AND AIRBRUSHES**

**NON-TOXIC PVC INNER LAYER**

**MAINTAINS A GOOD SEAL OVER  
TIME**





p. 751 / **PU-PVC**

---





-20°C ÷ 60°C



Working pressure:

20 Bar

Burst pressure:

60 Bar



Compressed air, vacuum and fluids suitable with construction materials



Inner layer: Transparent PVC in special blend

Reinforcement: Synthetic textile insert

Outer layer: PVC with polyurethane

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

## PU-PVC


Polyurethane tube with non-toxic PVC inner layer



CODE	Ø IDxOD	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE (Bar)	BURSTING PRESSURE (Bar)	g/m	Q.TY FOR ROLL (mt)
PU-PVC0610	6x10	2	55	20	60	65	100
* PU-PVC0812	8x12	2	65	20	60	80	100
* PU-PVC1015	10x15	2,5	68	20	60	100	100
PU-PVC1016	10x16	3	70	20	60	155	100
PU-PVC1319	13x19	3	105	20	60	180	100

\* Sizes suitable for use with fittings 1295 on page 287



Sizes Ø IDxOD	 Light blue
6x10	PU-PVC0610AZ
8x12	PU-PVC0812AZ
10x15	PU-PVC1015AZ
10x16	PU-PVC1016AZ
13x19	PU-PVC1319AZ





# **TECHNICAL TUBES**

PVC TUBE WITH  
POLYESTER FIBRE  
REINFORCEMENT

**PLUS**

**EXCELLENT RESISTANCE TO LOW  
TEMPERATURES**

---

**POLYESTER FIBRE REINFORCEMENT  
COVERED WITH SPECIAL RUBBER**

---

**GOOD DURABILITY OVER TIME**

---

**PERFECT FOR MANY INDUSTRIAL  
APPLICATIONS**

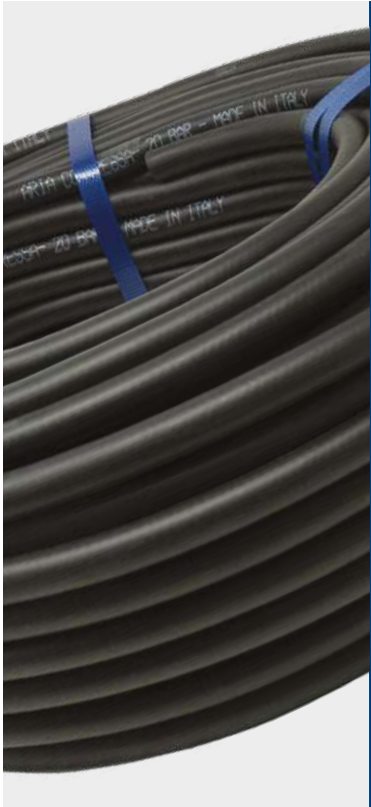




p. 755 / **PVC-AC**


---






 -20°C ÷ 60°C

 Working pressure:  
20 Bar  
Burst pressure:  
60 Bar

 Compressed air, vacuum and fluids suitable with construction materials

Inner layer: Black PVC in special blend

 Reinforcement: Synthetic polyester textile insert

Outer layer: Black weather-resistant PVC

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**

Products in compliance with the directive EU 2015/863


## PVC-AC

PVC tube with polyester fibre reinforcement



CODE	Ø IDxOD	THICKNESS (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE (Bar)	BURSTING PRESSURE (Bar)	g/m	Q.TY FOR ROLL (mt)
PVC-AC0614	6x14	4	25	20	60	170	100
PVC-AC0817	8x17	4,5	30	20	60	240	100
PVC-AC1019	10x19	4,5	32	20	60	280	100
PVC-AC1323	13x23	5	40	20	60	390	50
PVC-AC1928	19x28	4,5	60	20	60	550	50



Sizes Ø IDxOD	 Black
6x14	PVC-AC0614NE100
8x17	PVC-AC0817NE100
10x19	PVC-AC1019NE100
13x23	PVC-AC1323NE
19x28	PVC-AC1928NE



# **TECHNICAL TUBES**

## COILED TUBES & ACCESSORIES

**PLUS**

**EXCELLENT RESISTANCE TO  
OXIDATION, HYDROLYSIS AND  
OZONE**

---

**ADAPTS PERFECTLY TO PNEUMATIC  
UTENSILS, BOTH MOBILE OR  
SUSPENDED**

---

**MADE OF HIGH QUALITY  
POLYURETHANE WHICH MAKES  
SPIRAL SOFT AND DURABLE**

---

**THE STRAIGHT ENDS OF THE COILED  
TUBE ALLOW MOUNTING WITH THE  
WIDE RANGE OF SPRING NUTS**

---

**RANGE IS MADE COMPLETE BY A  
WIDE SERIES OF HOSE CUTTERS,  
SINGLE OR MULTIPLE ELBOW HOSE  
CLAMPS, FOR A FAST INSTALLATION  
OF THE TUBE WITH A SIMPLE  
PRESSURE**

---

**RESISTANT TO VIBRATION AND TO  
CLIMATE FACTORS ELEMENTS**





p. 760 / **UCES**



p. 761 / **UCES-G**



p. 762 / **1505**



p. 762 / **1508**



p. 762 / **1509**



p. 763 / **1510**



p. 763 / **1515**



p. 764 / **1521**



p. 764 / **1522**



p. 765 / **1525**



p. 765 / **TT**



p. 765 / **PZ**



p. 765 / **LM**



p. 766 / **ETC-20**



p. 766 / **STF**

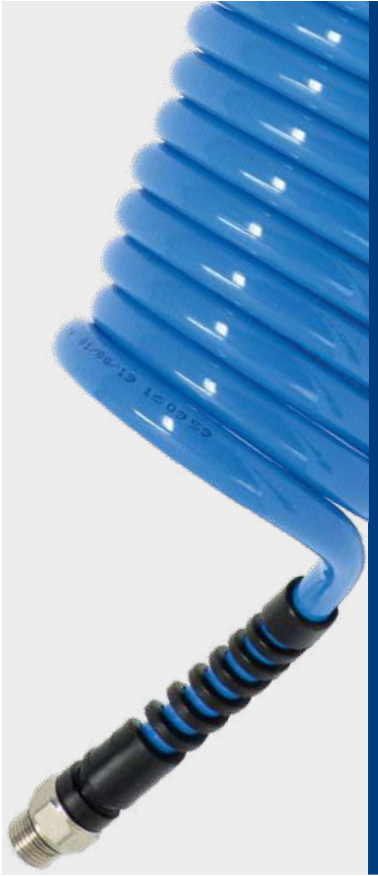


p. 766 / **HBC**



p. 766 / **HTBC**





-40°C ÷ 60°C



**Working pressure:**

See the table

**Negative pressure:**

- 0,95 Bar ( - 95 Kpa)



Compressed air



Parallel gas BSPP ISO 228

G1/4" and G3/8"



**Tube:** Thermoplastic polyurethane  
on polyester basis

**Fittings:** Nickel-plated brass  
(UCES-G)

## FEATURES

Very flexible tubing with good elastic properties even at low temperatures. Good chemical, abrasion and ageing resistance.

- Hardness: 98 Shore A
- Ultimate tensile strength: 50 MPa
- Ultimate tensile strain: 400 %
- Ultimate shear strength: 123 N/mm
- Abrasion resistance: 30 mm<sup>3</sup>
- Specific weight: 1,23 g/cc



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

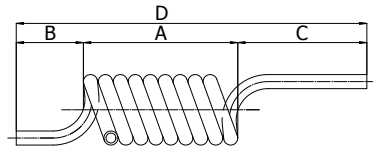
## WORKING PRESSURES EXPRESSED IN % AS A FUNCTION OF TEMPERATURE

20°C	30°C	40°C	50°C	60°C
100%	83%	72%	64%	47%



**UCES**

Polyurethane coiled tube on polyester basis



CODE	Ø ODxID	A (mm)	B (mm)	C (mm)	D (mm)	WORKING PRESSURE AT 23°C (Bar)	BURSTING PRESSURE AT 23°C (Bar)	TUBE LENGTH	NUMBER OF TURNS	Ø INTERNAL COILED TUBE (mm)	g
UCES060435	6x4	134	100	500	734	12	40	3,5	31	30	85
UCES060405		266	100	500	866	12	40	5,0	44	30	110
UCES060475		399	100	500	999	12	40	7,5	66	30	165
UCES060410		532	100	500	1132	12	40	10,0	88	30	215
UCES080535	8x5	194	100	500	794	14	45	3,5	34	25	155
UCES080505		387	100	500	987	14	45	5,0	48	25	205
UCES080575		580	100	500	1180	14	45	7,5	72	25	300
UCES080510		773	100	500	1373	14	45	10,0	97	25	395
UCES106505	10x6,5	399	100	500	999	13	42	5,0	40	30	315
UCES106575		598	100	500	1198	13	42	7,5	60	30	455
UCES106510		797	100	500	1397	13	42	10,0	80	30	600
UCES120805	12x8	266	100	500	866	12	40	5,0	22	60	455
UCES120875		399	100	500	999	12	40	7,5	33	60	660
UCES120810		532	100	500	1132	12	40	10,0	44	60	860

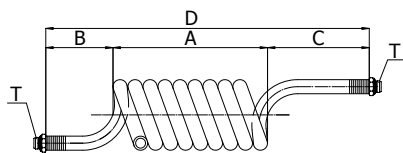
Sizes Ø ODxID	● Light blue	● Yellow
	6x4	UCES060435AZ
UCES060405AZ		UCES060405GL
UCES060475AZ		UCES060475GL
UCES060410AZ		UCES060410GL
8x5	UCES080535AZ	UCES080535GL
	UCES080505AZ	UCES080505GL
	UCES080575AZ	UCES080575GL
	UCES080510AZ	UCES080510GL
10x6,5	UCES106505AZ	UCES106505GL
	UCES106575AZ	UCES106575GL
	UCES106510AZ	UCES106510GL
12x8	UCES120805AZ	UCES120805GL
	UCES120875AZ	UCES120875GL
	UCES120810AZ	UCES120810GL





**UCES-G**

Polyurethane coiled tube on polyester basis with spring &amp; BSPP thread fittings



CODE	Ø ODxID	T	A (mm)	B (mm)	C (mm)	D (mm)	WORKING PRESSURE AT 23 °C (Bar)	BURSTING PRESSURE AT 23 °C (Bar)	TUBE LENGTH	NUMBER OF TURNS	Ø INTERNAL COILED TUBE (mm)	g
* UCES060435G14	6x4	2x G 1/4"	134	100	500	734	12	40	3,5	31	30	165
* UCES060405G14		2x G 1/4"	266	100	500	866	12	40	5,0	44	30	190
* UCES060475G14		2x G 1/4"	399	100	500	999	12	40	7,5	66	30	240
* UCES060410G14		2x G 1/4"	532	100	500	1132	12	40	10,0	88	30	290
UCES080535G14	8x5	2x G 1/4"	194	100	500	794	14	45	3,5	34	25	230
UCES080505G14		2x G 1/4"	387	100	500	987	14	45	5,0	48	25	280
UCES080575G14		2x G 1/4"	580	100	500	1180	14	45	7,5	72	25	375
UCES080510G14		2x G 1/4"	773	100	500	1373	14	45	10,0	97	25	470
UCES106505G14	10x6,5	2x G 1/4"	399	100	500	999	13	42	5,0	40	30	385
UCES106575G14		2x G 1/4"	598	100	500	1198	13	42	7,5	60	30	525
UCES106510G14		2x G 1/4"	797	100	500	1397	13	42	10,0	80	30	670
UCES120805G38	12x8	2x G 3/8"	266	100	500	866	12	40	5,0	22	60	550
UCES120875G38		2x G 3/8"	399	100	500	999	12	40	7,5	33	60	755
UCES120810G38		2x G 3/8"	532	100	500	1132	12	40	10,0	44	60	955

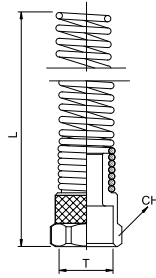
\* Ø 6x4 fittings are in yellow brass

Sizes Ø ODxID	● Light blue	● Yellow
	6x4	UCES060435G14AZ
	UCES060405G14AZ	UCES060405G14GL
	UCES060475G14AZ	UCES060475G14GL
	UCES060410G14AZ	UCES060410G14GL
8x5	UCES080535G14AZ	UCES080535G14GL
	UCES080505G14AZ	UCES080505G14GL
	UCES080575G14AZ	UCES080575G14GL
	UCES080510G14AZ	UCES080510G14GL
10x6,5	UCES106505G14AZ	UCES106505G14GL
	UCES106575G14AZ	UCES106575G14GL
	UCES106510G14AZ	UCES106510G14GL
12x8	UCES120805G38AZ	UCES120805G38GL
	UCES120875G38AZ	UCES120875G38GL
	UCES120810G38AZ	UCES120810G38GL



1505

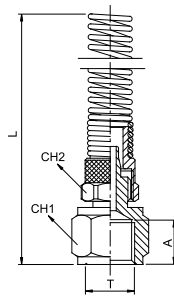
Locking nut with spring



CODE	ØD	T	L	CH
1505TR0604-A	6x4	M10x1	95	12
1505TR0805-A	8x5	M12x1	93,5	14
1505TR0806-A	8x6	M12x1	93,5	14
1505TR1065-A	10x6,5	M14x1	96,5	16
1505TR1008-A	10x8	M14x1	96,5	16
1505TR1208-A	12x8	M16x1	106	18
1505TR1210-A	12x10	M16x1	106	18

1508

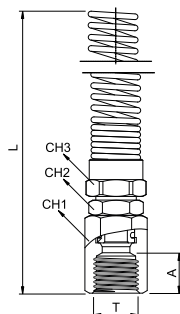
Straight female adapter BSPP thread with nut and spring



CODE	ØD	T	A	L	CH1	CH2
1508TR060418-A	6x4	G 1/8"	8	105	14	12
1508TR060414-A	6x4	G 1/4"	11	109	17	12
1508TR060438-A	6x4	G 3/8"	11,5	110	20	12
1508TR080618-A	8x6	G 1/8"	8	110	14	14
1508TR080614-A	8x6	G 1/4"	11	114	17	14
1508TR080638-A	8x6	G 3/8"	11,5	114,5	20	14
1508TR080612-A	8x6	G 1/2"	15	118	24	14
1508TR100814-A	10x8	G 1/4"	11	122	17	16
1508TR100838-A	10x8	G 3/8"	11,5	122,5	20	16
1508TR100812-A	10x8	G 1/2"	15	126	24	16
1508TR100838-A	12x10	G 3/8"	11,5	130,5	20	18

1509

Swivel straight female adapter BSPP thread with nut and spring

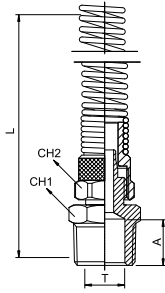


CODE	ØD	T	A	L	CH1	CH2	CH3
1509TR060414-A	6x4	G 1/4"	11	134	16	14	12
1509TR080514-A	8x5	G 1/4"	11	134	16	14	14
1509TR080614-A	8x6	G 1/4"	11	134	16	14	14
1509TR106514-A	10x6,5	G 1/4"	11	134	16	14	16
1509TR100814-A	10x8	G 1/4"	11	134	16	14	16



## 1510

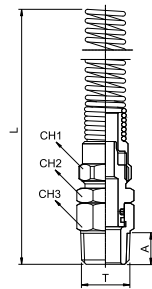
## Straight male adapter BSPT thread with nut and spring



CODE	ØD	T	A	L	CH1	CH2
1510TR060418-A	6x4	R 1/8"	8	109,5	12	12
1510TR060414-A	6x4	R 1/4"	11	113	14	12
1510TR080618-A	8x6	R 1/8"	8	124,5	12	14
1510TR080614-A	8x6	R 1/4"	11	128	14	14
1510TR080638-A	8x6	R 3/8"	11,5	128,5	17	14
1510TR080612-A	8x6	R 1/2"	14	131,5	22	14
1510TR100818-A	10x8	R 1/8"	8	123	14	16
1510TR100814-A	10x8	R 1/4"	11	125	14	16
1510TR100838-A	10x8	R 3/8"	11,5	125,5	17	16
1510TR100812-A	10x8	R 1/2"	14	130	22	16
1510TR121038-A	12x10	R 3/8"	11,5	134,5	17	18
1510TR121012-A	12x10	R 1/2"	14	140	22	18

## 1515

## Swivel straight male adapter BSPT thread and nut with spring

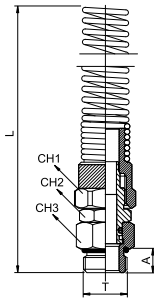


CODE	ØD	T	A	L	CH1	CH2	CH3
1515TR060418-A	6x4	R 1/8"	8	110	12	12	12
1515TR060414-A	6x4	R 1/4"	11	113	12	14	14
1515TR080518-A	8x5	R 1/8"	8	110	14	12	12
1515TR080514-A	8x5	R 1/4"	11	113	14	14	14
1515TR080618-A	8x6	R 1/8"	8	110	14	12	12
1515TR080614-A	8x6	R 1/4"	11	113	14	14	14
1515TR106514-A	10x6,5	R 1/4"	11	117	16	14	14
1515TR100814-A	10x8	R 1/4"	11	117	16	14	14
1515TR120838-A	12x8	R 3/8"	11,5	126	18	17	17
1515TR121038-A	12x10	R 3/8"	11,5	126	18	17	17



**1521**

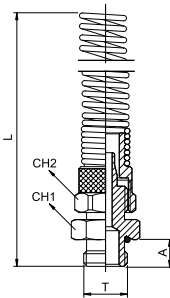
Swivel straight male adapter BSPP thread with O-ring and nut with spring



CODE	ØD	T	A	L	CH1	CH2	CH3
1521TR060418-A	6x4	G 1/8"	6	106	12	12	13
1521TR060414-A	6x4	G 1/4"	8	108	12	14	16
1521TR080518-A	8x5	G 1/8"	6	106	14	12	13
1521TR080514-A	8x5	G 1/4"	8	108	14	14	16
1521TR080618-A	8x6	G 1/8"	6	106	14	12	13
1521TR080614-A	8x6	G 1/4"	8	108	14	14	16
1521TR106514-A	10x6,5	G 1/4"	8	112	16	14	16
1521TR100814-A	10x8	G 1/4"	8	112	16	14	16
1521TR120838-A	12x8	G 3/8"	9	123	18	17	19
1521TR121038-A	12x10	G 3/8"	9	123	18	17	19

**1522**

Straight male adapter BSPP thread with O-ring and nut with spring



CODE	ØD	T	A	L	CH1	CH2
1522TR060418-A	6x4	G 1/8"	6	110	13	12
1522TR060414-A	6x4	G 1/4"	8	111	16	12
1522TR060438-A	6x4	G 3/8"	9	112	19	12
1522TR060412-A	6x4	G 1/2"	10	113	24	12
1522TR080618-A	8x6	G 1/8"	6	110	14	14
1522TR080614-A	8x6	G 1/4"	8	111	16	14
1522TR080638-A	8x6	G 3/8"	9	112	19	14
1522TR080612-A	8x6	G 1/2"	10	113	24	14
1522TR100818-A	10x8	G 1/8"	6	116	14	16
1522TR100814-A	10x8	G 1/4"	8	117	16	16
1522TR100838-A	10x8	G 3/8"	9	118	19	16
1522TR100812-A	10x8	G 1/2"	10	119	24	16
1522TR121038-A	12x10	G 3/8"	9	129	19	18
1522TR121012-A	12x10	G 1/2"	10	130	24	18

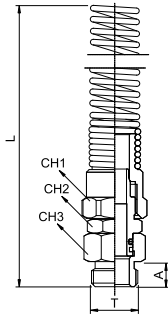
Straight male adapter metric thread with O-ring and nut with spring

CODE	ØD	T	A	L	CH1	CH2
1522TR0604M121-A	6x4	M12x1	8	108	15	12
1522TR0604M12125-A	6x4	M12x1,25	8	108	15	12
1522TR0604M1215-A	6x4	M12x1,5	8	108	15	12



**1525**

## Swivel straight male adapter BSPP thread with nut and spring



CODE	ØD	T	A	L	CH1	CH2	CH3
1525TR060418-A	6x4	G 1/8"	6	106	12	12	13
1525TR060414-A	6x4	G 1/4"	8	108	12	14	16
1525TR080518-A	8x5	G 1/8"	6	106	14	12	13
1525TR080514-A	8x5	G 1/4"	8	108	14	14	16
1525TR080618-A	8x6	G 1/8"	6	106	14	12	13
1525TR080614-A	8x6	G 1/4"	8	108	14	14	16
1525TR106514-A	10x6,5	G 1/4"	8	112	16	14	16
1525TR100814-A	10x8	G 1/4"	8	112	16	14	16
1525TR120838-A	12x8	G 3/8"	9	123	18	17	19
1525TR121038-A	12x10	G 3/8"	9	123	18	17	19

**TT**

## Plastic tube cutter



CODE	MAX. TUBE Ø (mm)	g
TT16	16	32,0

**PZ**

## Metal tube cutter



CODE	MAX. TUBE Ø (mm)	BLADE MATERIAL	g
PZ-P	12	STEEL	106,0
PZ-G	28	STEEL	291,0

**LM**

## Spare blade for PZ tube cutter



CODE	FOR TUBE CUTTER	BLADE MATERIAL	g
LM-P	PZ-P	STEEL	1,0
LM-G	PZ-G	STEEL	2,0



**ETC**

Tube cutter with tape measure



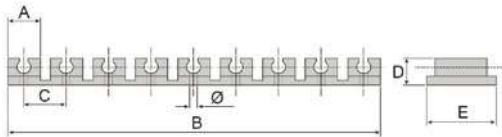
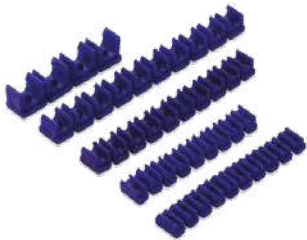
CODE	MAX. TUBE Ø (mm)	BLADE MATERIAL	PLUS	g
ETC-20	20	STEEL	TAPE MEASURE (1m)	47,5

Spare blade for ETC

CODE	FOR TUBE CUTTER	BLADE MATERIAL	g
ETC-B	ETC-20	STEEL	1,0

**STF**

Plastic tube fixing clips



CODE	ØOD	A	B	C	D	Ø	E	N° OF POSITIONS	g
STF04	4	9	114	11,7	8,0	2,8	19	10	8,0
STF06	6	9	114	11,7	10,0	2,8	19	10	8,0
STF08	8	12	143	14,6	12,0	3,8	19	10	12,0
STF10	10	15	172	17,4	13,8	4,1	19	10	16,0
STF12	12	19	162	20,5	16,8	5,3	19	8	10,0
STF14	14	21	180	22,5	18,8	5,3	19	4	11,0

STF: The recommended environment temperature is from 0°C to 40°C

**HBC**

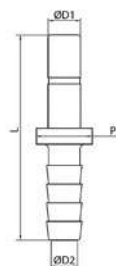
Curved tube clamp



CODE	TUBE Ø (mm)	TUBE Ø (inch)	HOLES Ø (mm)	g
HBC08-5/16B	8	5/16	3,4	4,1
HBC10-3/8B	10	3/8	3,4	11,6

**HTBC**

Barb connector with stem



CODE	ØD1	ØD2	P	L	g
HTBC0606B	6	6	10,35	38,5	4,0
HTBC0806B	8	6	10,35	39,7	5,5



**TECHNICAL  
TUBES**  
PUSH-LOCK  
HOSES &  
FITTINGS

**PLUS**

**RESISTANT TO REPEATED FLEXIONS  
WITH EXCELLENT BENDING RADIUS**

---

**HIGH ABRASION RESISTANCE**

---

**GOOD OZONE RESISTANCE  
(ASR & ASR-PU HOSES)**

---

**DOES NOT REQUIRE HOSE CLAMP,  
RESULTING IN A CONSIDERABLE  
REDUCTION IN ASSEMBLY TIME**

---

**SUITABLE FOR USE IN COOLING  
SYSTEMS**

---

**AVAILABLE IN FOUR COLOURS  
(ASR & ASR-PU HOSES)**

---

**FULL RANGE OF FITTINGS IN THREE  
MATERIALS: BRASS, STEEL AND  
STAINLESS STEEL AISI 316L**



TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / PUSH-LOCK HOSES



p. 769 / **ASR**



p. 770 / **ASR-HH**



p. 771 / **ASR-PU**

TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / BRASS FITTINGS



p. 773 / **3467**



p. 773 / **3468**



p. 774 / **3400-SC**



p. 774 / **3440-SC**



p. 775 / **SPHM-R-BS**



p. 775 / **SPHM-N-BS**



p. 775 / **SPHU-BS**

TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / GALVANISED STEEL FITTINGS



p. 776 / **3470**



p. 776 / **3471**



p. 776 / **3472**



p. 777 / **3474**

TECHNICAL TUBES - PUSH-LOCK HOSES & FITTINGS / STAINLESS STEEL AISI 316L FITTINGS



p. 777 / **SPHM-R**



p. 777 / **SPHM-N**



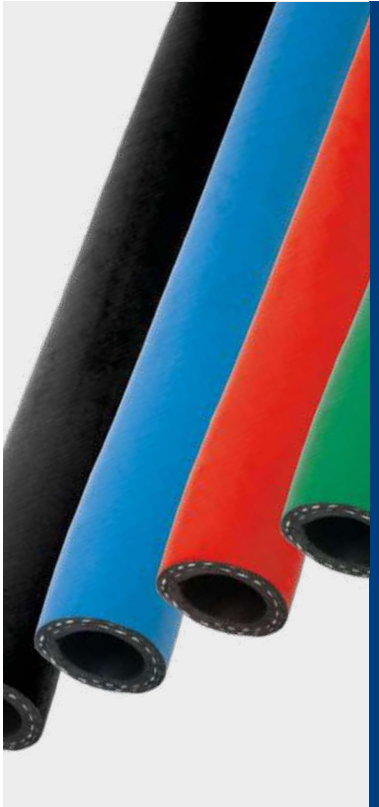
p. 778 / **SPHU**




p. 778 / **SPHA**









 -20°C ÷ +75°C air  
0°C ÷ +95°C water  
Environment temperature:  
-20°C ÷ +95°C

---


 **Max. working pressure:**  
16 Bar

---

 Compressed air & industrial water

---

**Inner layer:**  
synthetic rubber

 **Reinforcement:**  
high tensile textile layer

**Outer layer:**  
high performance synthetic rubber

**FEATURES**

- High flexibility
- High abrasion resistance
- 100% silicone free
- Ozone resistance
- For use without hose clamp
- Suitable for the automobile industry, with fluids such as water and air

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006







Products in compliance with the directive EU 2015/863

**ASR**

Push-lock hose ASR



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	MAX. WORKING PRESSURE AT 20°C (Bar)	g/m	Q.TY FOR ROLL (m)
ASR06	1/4"	6	6,5 <sup>+0,4</sup> <sub>-0,3</sub>	12,0 - 13,0	45	16	140	40
ASR10	3/8"	10	9,7 ±0,4	14,8 - 16,0	75	16	170	40
ASR13	1/2"	13	13,0 ±0,5	18,5 - 20,0	90	16	260	40
ASR16	5/8"	16	16,0 <sup>+0,7</sup> <sub>-0,3</sub>	23,4 - 25,0	115	16	340	40
ASR20	3/4"	20	19,3 ±0,5	26,0 - 28,0	135	16	420	40
ASR25	1"	25	25,6 ±0,5	34,0 - 36,0	165	16	640	40

DN		 Black	 * Blue	 * Red	 * Green
1/4"	6	ASR06NE	ASR06BL	ASR06RO	ASR06VD
3/8"	10	ASR10NE	ASR10BL	ASR10RO	ASR10VD
1/2"	13	ASR13NE	ASR13BL	ASR13RO	ASR13VD
5/8"	16	ASR16NE	ASR16BL	ASR16RO	ASR16VD
3/4"	20	ASR20NE	ASR20BL	ASR20RO	ASR20VD
1"	25	ASR25NE	ASR25BL	ASR25RO	ASR25VD

\* Blue, Red and Green: available on demand and min. quantity

**Restrictions:** not permitted for use in air brake systems and high dynamic pulsation systems. Not recommended for fuels and hydraulic and lubricating oils. Use our ASR hoses only in conjunction with our barb connectors. The use of other type of connectors are under customers' responsibility. All information mentioned in this document are based on tests done with the greatest care at a room temperature of +20°C. However, these data are not binding, being subjected to the different application areas, the working temperature and the hose lifetime.





-40 °C ÷ +75 °C air  
 0 °C ÷ +120 °C water  
 Environment temperature:  
 -40 °C ÷ +120 °C



Max. working pressure:  
 14 Bar



Compressed air & industrial water



Inner layer:  
 synthetic rubber

Reinforcement:  
 high tensile textile layer

Outer layer:  
 high performance synthetic rubber

**FEATURES**

- High flexibility
- High abrasion resistance
- 100% silicone free
- For use without hose clamp
- For use in the injection moulding sector and automobile industry for the transport of demineralized water up to 120°C with corrosion inhibitor and air up to 75°C.

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006





Products in compliance with the directive EU 2015/863

**ASR-HH**

Push-lock hose ASR-HH



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	MAX. WORKING PRESSURE AT 20 °C (Bar)	g/m	Q.TY FOR ROLL (m)
ASR-HH06	1/4"	6	6,5 <sup>+0,4</sup> <sub>-0,3</sub>	12,0 - 13,0	45	14	125	40
ASR-HH10	3/8"	10	9,7 ±0,4	14,8 - 16,0	75	14	150	40
ASR-HH13	1/2"	13	13,0 ±0,5	18,5 - 20,0	90	14	235	40
ASR-HH16	5/8"	16	16,0 <sup>+0,7</sup> <sub>-0,3</sub>	23,4 - 25,0	115	14	350	40


DN		 Blue	 Red
1/4"	6	* ASR-HH06BL	ASR-HH06RO
3/8"	10	ASR-HH10BL	ASR-HH10RO
1/2"	13	ASR-HH13BL	ASR-HH13RO
5/8"	16	ASR-HH16BL	ASR-HH16RO


\* available on request and min. quantity


**Restrictions:** not permitted for use in air brake systems and high dynamic pulsation systems. Not recommended for fuels and hydraulic and lubricating oils. Use our ASR-HH hoses only in conjunction with our barb connectors. The use of other type of connectors are under customers' responsibility. All information mentioned in this document are based on tests done with the greatest care at a room temperature of +20°C. However, these data are not binding, being subjected to the different application areas, the working temperature and the hose lifetime.






 -20°C ÷ +80°C air  
0°C ÷ +80°C water  
Environment temperature:  
-20°C ÷ +80°C

 Working pressure:  
See the table  
Negative pressure:  
See the table

 Compressed air, industrial water and fluids suitable with construction materials

 Inner layer:  
polyurethane  
Reinforcement:  
high tensile textile layer  
Outer layer:  
polyurethane

**FEATURES**

- High abrasion resistance
- Tear resistance
- 100% silicone free
- UV & ozone resistance
- For use without hose clamp
- Good resistance to mineral oil, oily elements, oxygen, acids and diluted alkaline
- Suitable for individual applications, especially for the robotic and automobile industry for air, water and different gases

**SILICONE FREE**



Products in compliance with EC Regulation 1907/2006

**RoHS3**





Products in compliance with the directive EU 2015/863

**ASR-PU**

Push-lock hose ASR-PU



CODE	DN		ID (mm)	OD (mm)	MIN. BENDING RADIUS (mm)	WORKING PRESSURE AT 20°C (Bar)	NEGATIVE PRESSURE (Bar)	g/m
ASR-PU06	1/4"	6	6,4	13	25	13	0,8	110
ASR-PU10	3/8"	10	9,5	16	60	13	0,8	154
ASR-PU13	1/2"	13	12,5	19	75	13	0,8	218
ASR-PU16	5/8"	16	16,5	23	125	12	0,8	280
ASR-PU20	3/4"	20	19,5	27	150	10	0,8	325

DN		 Black	 * Light blue	 * Red	 * Green
1/4"	6	ASR-PU06NE	ASR-PU06AZ	ASR-PU06RO	ASR-PU06VD
3/8"	10	ASR-PU10NE	ASR-PU10AZ	ASR-PU10RO	ASR-PU10VD
1/2"	13	ASR-PU13NE	ASR-PU13AZ	ASR-PU13RO	ASR-PU13VD
5/8"	16	ASR-PU16NE	ASR-PU16AZ	ASR-PU16RO	ASR-PU16VD
3/4"	20	ASR-PU20NE	ASR-PU20AZ	ASR-PU20RO	ASR-PU20VD

\* Light blue, Red and Green: available on request and min. quantity

**Restrictions:** not permitted for use in air brake systems and high dynamic pulsation systems. Not recommended for fuels. Use our ASR-PU hoses only in conjunction with our barb connectors. The use of other type of connectors are under customers' responsibility. All information mentioned in this document are based on tests done with the greatest care at a room temperature of +20°C. However, these data are not binding, being subjected to the different application areas, the working temperature and the hose lifetime.



## FITTINGS TECHNICAL DATA

### YELLOW BRASS FITTINGS:

**Materials:** Turning: Yellow brass UNI EN 12164 CW614N - Hot forging & machining: Yellow brass UNI EN 12165 CW617N

Turning: ASTM B16 C3600 - Hot forging & machining: ASTM B124 C3770 (SPHM-R-BS, SPHM-N-BS & SPHU-BS)

**Pressure:** 25 Bar (the working pressure depends on the tube used)

**Temperature:** from 0°C to 80°C (the working temperature depends on the tube used)

from -49°C to 149°C (SPHM-R-BS, SPHM-N-BS & SPHU-BS), the working temperature depends on the tube used

**Passage:** Compressed air and fluids suitable with construction materials

### GALVANISED STEEL FITTINGS:

**Material:** Galvanised steel (Cr type II galvanisation)

**Pressure:** 16 Bar (the working pressure depends on the tube used)

**Temperature:** da -20°C a 120°C (the working temperature depends on the tube used)

**Passage:** Compressed air and fluids suitable with construction materials

### STAINLESS STEEL AISI 316L FITTINGS:

**Material:** Stainless steel AISI 316L

**Max pressure (at 38 °C):** 25 Bar (the working pressure depends on the tube used)

**Temperature:** from -49°C to 149°C (the working temperature depends on the tube used)

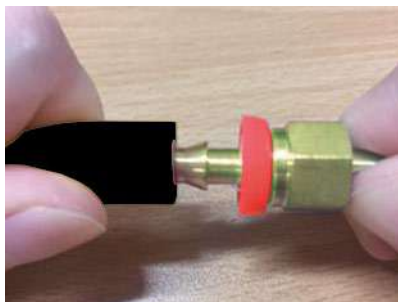
**Passage:** Compressed air and fluids suitable with construction materials

## ASSEMBLY INSTRUCTIONS

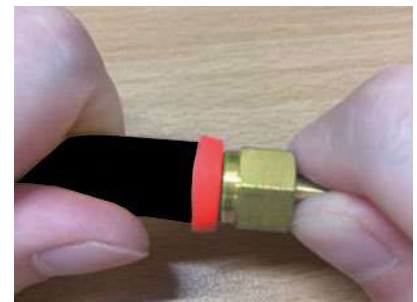
### HOW TO ASSEMBLY



1. Cut the hose vertically and leave its end clean.



2. Insert the barb connector into the hose (use soapy water to lubricate and make the insertion easier).



3. Insert the fitting into the hose till the end of the plastic cap.
4. Ensure that the hose is completely inserted.

### HOW TO DISASSEMBLY



1. Cut the hose lengthwise from the plastic cap to the end of the barb.

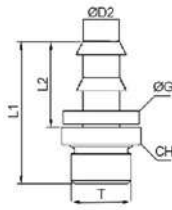


2. Bend the hose to expose the barbs, then remove the hose pulling.



## 3467

## Brass male barb connector BSPB thread with metal-nitrile composite gasket



CODE	DN	T	ØD2	L1	L2	ØG	CH	g
3467TR1814	1/4"	6	G 1/8"	4,0	31,5	20,0	14,0	13
3467TR1438	3/8"	10	G 1/4"	7,5	39,1	24,1	17,0	17
3467TR3838	3/8"	10	G 3/8"	7,5	42,5	24,1	17,0	22
3467TR3812	1/2"	13	G 3/8"	10,0	46,5	28,0	20,5	22
3467TR1212	1/2"	13	G 1/2"	10,0	48,5	28,0	20,5	27
3467TR1258	5/8"	16	G 1/2"	13,5	56,5	36,5	24,0	27
3467TR3434	3/4"	20	G 3/4"	16,0	65,3	43,0	27,0	32

## 2605

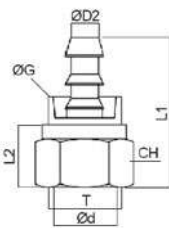
## Metal-nitrile composite gasket



CODE	2605TR18	2605TR14	2605TR38	2605TR12	2605TR34	2605TR1
THREAD	1/8"	1/4"	3/8"	1/2"	3/4"	1"

## 3468

## Swivel brass female barb connector metric thread



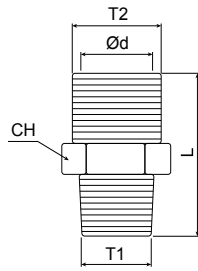
CODE	DN	T	ØD2	Ød	L1	L2	ØG	CH	g
3468TRM1014	1/4"	6	M10x1	4,0	6	33,5	11,0	14,0	13
3468TRM1214	1/4"	6	M12x1	4,8	8	34,5	13,0	14,0	14
3468TRM1614	1/4"	6	M16x1,5	4,8	10	35,8	15,0	14,0	19
3468TRM1638	3/8"	10	M16x1,5	7,5	10	39,3	15,0	17,0	19
3468TRM2038	3/8"	10	M20x1,5	7,5	14	39,3	15,0	17,0	24
3468TRM2012	1/2"	13	M20x1,5	10,0	14	44,0	15,0	20,5	24
3468TRM2212	1/2"	13	M22x1,5	10,0	16	45,0	17,0	20,5	27
3468TRM2412	1/2"	13	M24x1,5	10,0	18	47,0	18,0	20,5	30
3468TRM2458	5/8"	16	M24x1,5	13,5	18	55,0	18,0	24,0	30
3468TRM3034	3/4"	20	M30x1,5	16,0	22	62,0	18,5	27,0	36
3468TRM361	1"	25	M36x1,5	22,0	28	71,3	21,0	36,5	42

The barb connector 3468 can be combined with our yellow brass compression fittings range.  
Refer to Ød in order to chose the right combination.



**3400-SC**

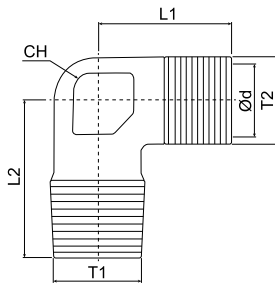
Brass straight male adapter BSPT & metric thread



CODE	T1	T2	Ød	L	CH	g
3400TR186-SC	R 1/8"	M10x1	6	19,0	11	8,0
3400TR146-SC	R 1/4"	M10x1	6	22,5	14	14,0
3400TR188-SC	R 1/8"	M12x1	8	19,5	13	9,0
3400TR148-SC	R 1/4"	M12x1	8	23,0	14	14,0
3400TR388-SC	R 3/8"	M12x1	8	24,5	17	22,0
3400TR1810-SC	R 1/8"	M16x1,5	10	23,5	17	20,0
3400TR1410-SC	R 1/4"	M16x1,5	10	27,0	17	24,0
3400TR3810-SC	R 3/8"	M16x1,5	10	27,5	17	32,0
3400TR1210-SC	R 1/2"	M16x1,5	10	32,0	22	43,0
3400TR1414-SC	R 1/4"	M20x1,5	14	27,0	22	34,0
3400TR3814-SC	R 3/8"	M20x1,5	14	27,5	22	35,0
3400TR1214-SC	R 1/2"	M20x1,5	14	32,0	22	44,0
3400TR1216-SC	R 1/2"	M22x1,5	16	32,5	24	51,0
3400TR1218-SC	R 1/2"	M24x1,5	18	34,5	27	63,0
3400TR3418-SC	R 3/4"	M24x1,5	18	35,0	27	74,0
3400TR1222-SC	R 1/2"	M30x1,5	22	36,0	32	93,0
3400TR3422-SC	R 3/4"	M30x1,5	22	36,0	32	98,0
3400TR122-SC	R 1"	M30x1,5	22	41,0	36	135,0
3400TRR128-SC	R 1"	M36x1,5	28	46,0	41	160,5

**3440-SC**

Brass male elbow adapter BSPT & metric thread

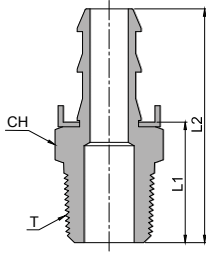


CODE	T1	T2	Ød	L1	L2	CH	g
3440TR186-SC	R 1/8"	M10x1	6	17,6	18,0	8	12,0
3440TR146-SC	R 1/4"	M10x1	6	17,6	21,5	10	21,0
3440TR188-SC	R 1/8"	M12x1	8	22,4	18,5	10	18,0
3440TR148-SC	R 1/4"	M12x1	8	22,4	22,0	10	22,0
3440TR388-SC	R 3/8"	M12x1	8	22,4	24,0	12	33,0
3440TR1410-SC	R 1/4"	M16x1,5	10	24,0	25,0	12	31,0
3440TR3810-SC	R 3/8"	M16x1,5	10	24,0	25,0	12	42,0
3440TR1210-SC	R 1/2"	M16x1,5	10	28,8	32,0	19	88,0
3440TR3814-SC	R 3/8"	M20x1,5	14	28,0	30,0	19	70,0
3440TR1214-SC	R 1/2"	M20x1,5	14	28,0	32,0	19	74,0
3440TR3816-SC	R 3/8"	M22x1,5	16	31,2	30,0	19	87,0
3440TR1216-SC	R 1/2"	M22x1,5	16	31,2	33,5	19	69,0
3440TR1218-SC	R 1/2"	M24x1,5	18	32,8	35,5	23	109,0
3440TR3418-SC	R 3/4"	M24x1,5	18	32,8	36,5	23	145,0
3440TR3422-SC	R 3/4"	M30x1,5	22	40,0	40,0	27	203,0
3440TR122-SC	R 1"	M30x1,5	22	40,0	44,0	27	231,0



**SPHM-R-BS**

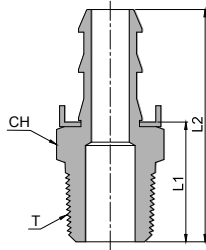
Brass male barb connector BSPT thread



CODE	DN		T	CH	L1	L2	g
SPHM-4-4R-BS	1/4"	6	R 1/4"	15	22,9	42,7	24,0
SPHM-6-4R-BS	3/8"	10	R 1/4"	15	22,9	45,0	27,0
SPHM-6-6R-BS	3/8"	10	R 3/8"	18	24,6	46,7	27,0
SPHM-8-8R-BS	1/2"	12	R 1/2"	22	28,7	55,6	76,0
SPHM-12-12R-BS	3/4"	20	R 3/4"	27	33,8	76,0	143,0
SPHM-16-16R-BS	1"	25	R 1"	35	38,6	85,6	255,0

**SPHM-N-BS**

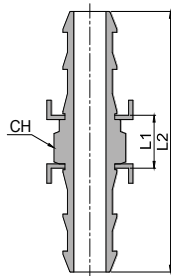
Brass male barb connector NPT thread



CODE	DN		T	CH	L1	L2	g
SPHM-4-4N-BS	1/4"	6	N 1/4"	15	22,9	42,7	24,0
SPHM-6-4N-BS	3/8"	10	N 1/4"	15	22,9	45,0	27,0
SPHM-6-6N-BS	3/8"	10	N 3/8"	18	24,6	46,7	27,0
SPHM-8-8N-BS	1/2"	12	N 1/2"	22	28,7	55,6	76,0
SPHM-12-12N-BS	3/4"	20	N 3/4"	27	33,8	76,0	143,0
SPHM-16-16N-BS	1"	25	N 1"	35	38,6	85,6	255,0

**SPHU-BS**

Brass union barb connector

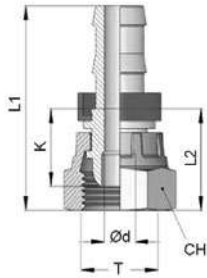


CODE	DN		CH	L1	L2	g
SPHU-4-4-BS	1/4"	6	11	10,7	50,3	-
SPHU-6-6-BS	3/8"	10	15	13,2	57,4	-
SPHU-8-8-BS	1/2"	12	18	13,7	67,5	-
SPHU-12-12-BS	3/4"	20	24	14,3	98,7	-
SPHU-16-16-BS	1"	25	32	16,5	110,5	-



**3470**

Swivel steel female barb connector BSPP thread, 60° ogival seat

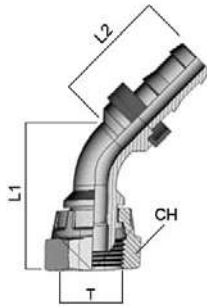


CODE	DN	Ød	T	L1	L2	K	CH	g	
3470TR14	1/4"	6	4,0	G 1/4"	37,2	17,9	13,2	19	30,0
3470TR38	3/8"	10	7,0	G 3/8"	44,2	21,7	14,2	22	48,0
3470TR12	1/2"	12	9,5	G 1/2"	51,2	28,5	22,5	27	81,0
* 3470TR34	3/4"	20	14,5	G 3/4"	68,2	39,2	27,6	32	139,0
* 3470TR1	1"	25	20,0	G 1"	74,0	38,4	28,4	41	239,0

\* 3/4" and 1" thread without plastic collar

**3471**

Swivel steel elbow 45° female barb connector BSPP thread, 60° ogival seat

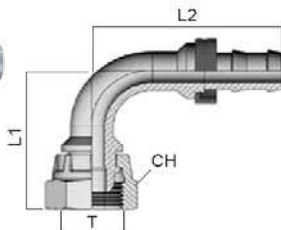


CODE	DN	T	L1	L2	CH	g	
3471TR14	1/4"	6	G 1/4"	39,5	25,0	19	40,0
3471TR38	3/8"	10	G 3/8"	51,0	31,0	22	65,0
3471TR12	1/2"	12	G 1/2"	64,5	36,0	27	118,0
* 3471TR34	3/4"	20	G 3/4"	88,5	51,0	32	212,0
* 3471TR1	1"	25	G 1"	88,5	73,5	46	398,0

\* 3/4" and 1" thread without plastic collar

**3472**

Swivel steel elbow 90° female barb connector BSPP thread, 60° ogive seat



CODE	DN	T	L1	L2	CH	g	
3472TR14	1/4"	6	G 1/4"	29,5	40,0	19	40,0
3472TR38	3/8"	10	G 3/8"	42,0	53,5	22	70,0
3472TR12	1/2"	12	G 1/2"	50,0	62,5	27	120,0
* 3472TR34	3/4"	20	G 3/4"	69,0	90,0	32	238,0
* 3472TR1	1"	25	G 1"	86,5	105,0	40	433,0

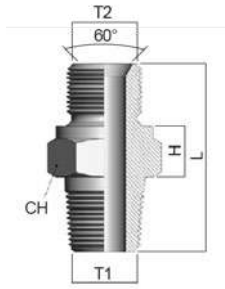
\* 3/4" and 1" thread without plastic collar





**3474**

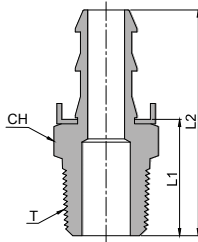
## Steel straight adapter BSPT thread, 60° ogive seat



CODE	T1	T2	L	H	CH	g
3474TR14	R 1/4"	G 1/4"	33,0	8	19	31,0
3474TR38	R 3/8"	G 3/8"	39,0	11	22	50,0
3474TR12	R 1/2"	G 1/2"	43,0	10	27	86,0
3474TR34	R 3/4"	G 3/4"	46,5	11	32	144,0
3474TR1	R 1"	G 1"	56,0	13	41	236,0

**SPHM-R**

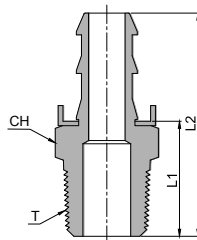
## Stainless steel AISI 316L male barb connector BSPT thread



CODE	DN		T	L1	L2	CH	g
SPHM-4-4R	1/4"	6	R 1/4"	22,9	42,7	15	21,0
SPHM-6-4R	3/8"	10	R 1/4"	22,9	45,0	15	25,0
SPHM-6-6R	3/8"	10	R 3/8"	24,6	46,7	18	25,0
SPHM-8-8R	1/2"	12	R 1/2"	28,7	55,6	22	70,0
SPHM-12-12R	3/4"	20	R 3/4"	33,8	76,0	27	130,0
SPHM-16-16R	1"	25	R 1"	38,6	85,6	35	240,0

**SPHM-N**

## Stainless steel AISI 316L male barb connector NPT thread

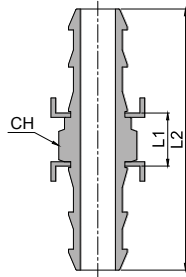


CODE	DN		T	L1	L2	CH	g
SPHM-4-4N	1/4"	6	N 1/4"	22,9	42,7	15	21,0
SPHM-6-4N	3/8"	10	N 1/4"	22,9	45,0	15	25,0
SPHM-6-6N	3/8"	10	N 3/8"	24,6	46,7	18	25,0
SPHM-8-8N	1/2"	12	N 1/2"	28,7	55,6	22	70,0
SPHM-12-12N	3/4"	20	N 3/4"	33,8	76,0	27	130,0
SPHM-16-16N	1"	25	N 1"	38,6	85,6	35	240,0



**SPHU**

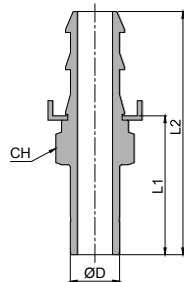
Stainless steel AISI 316L union barb connector



CODE	DN		L1	L2	CH	g
SPHU-4-4	1/4"	6	10,7	50,3	11	-
SPHU-6-6	3/8"	10	13,2	57,4	15	27,2
SPHU-8-8	1/2"	12	13,7	67,5	18	-
SPHU-12-12	3/4"	20	14,3	98,7	24	-
SPHU-16-16	1"	25	16,5	110,5	32	-

**SPHA**

Stainless steel AISI 316L barb connector with stem

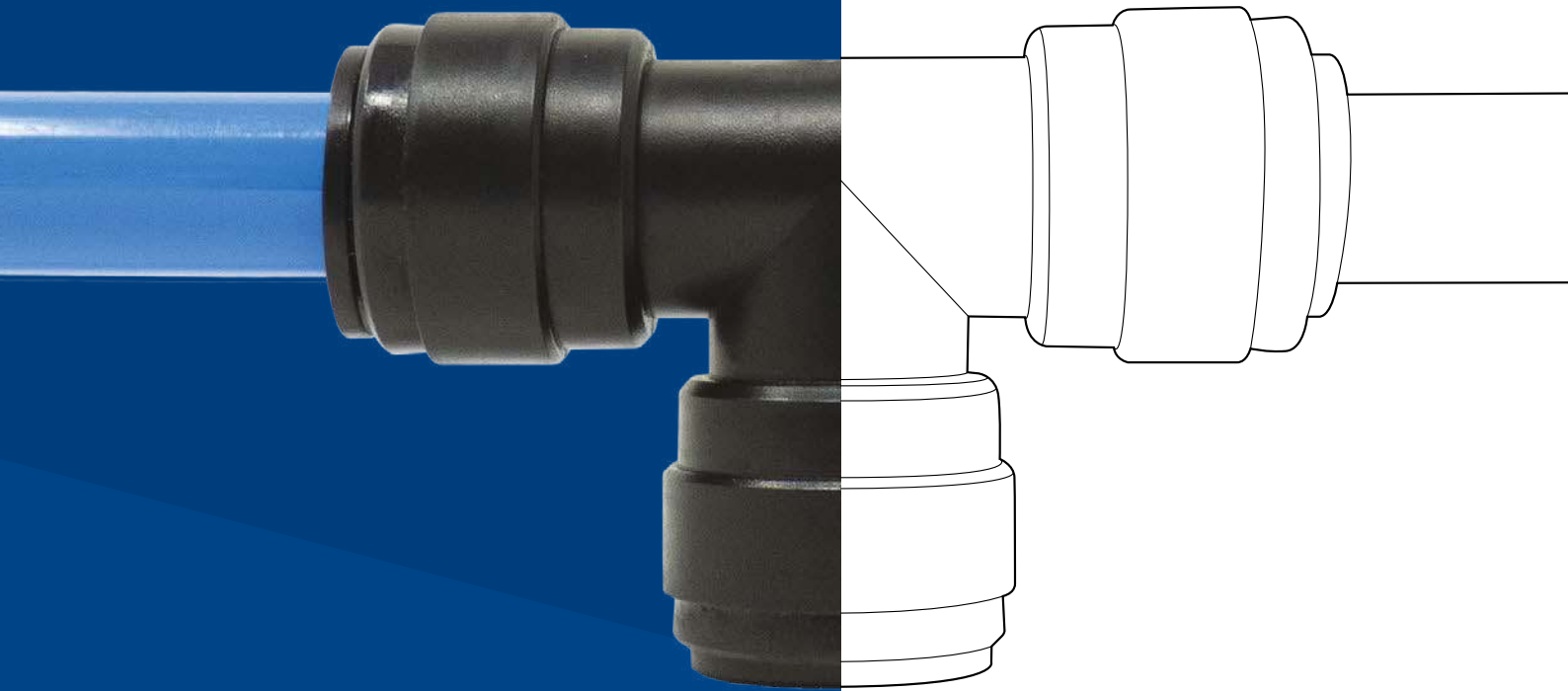


CODE	DN		ØD	L1	L2	CH	g
SPHA-4-4T	1/4"	6	1/4"	25,2	45,0	11	57,0
SPHA-6-6T	3/8"	10	3/8"	29,5	51,6	15	57,0
SPHA-8-8T	1/2"	12	1/2"	35,8	62,7	18	57,0
SPHA-12-12T	3/4"	20	3/4"	37,6	79,8	24	89,6
SPHA-16-16T	1"	25	1"	46,7	93,7	32	176,5

The SPHA barb connector can be combined with our S-LOK range (INOX.Fit catalogue).  
Use the ØD as a reference to choose the correct combination.



# AIR LINE SYSTEM





p. 781

**AIR LINE SYSTEM**

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# TECHNICAL INDEX



# **AIR LINE SYSTEM**

**PLUS**

**SIMPLE AND FAST INSTALLATION  
THANKS TO PUSH-IN FITTINGS  
WHICH GUARANTEE RELIABILITY  
AND AFFORDABILITY**

---

**IDEAL FOR SMALL AIR  
DISTRIBUTION NETWORKS AND  
FOR LINE EDGES ON INDUSTRIAL  
INSTALLATIONS**

---

**SYSTEM IS COMPATIBLE WITH WIDE  
RANGE OF TIERRE ACCESSORIES  
AND EASLY INTEGRATED**





p. 783 / **AL**



p. 783 / **CC**



p. 784 / **STFT**



p. 784 / **HPC-G**



p. 784 / **HUC**



p. 784 / **HUL**



p. 785 / **HUT**



p. 785 / **HCJ-G**



p. 785 / **HLJ**



p. 785 / **HPF**



p. 786 / **HPP**



p. 786 / **HGJ**



p. 786 / **HBVU**



p. 786 / **HCP**



p. 787 / **FPSAS**



p. 787 / **FPDAS**



p. 787 / **FPWLM1**



p. 787 / **FPWLM2**





-20°C ÷ 70°C



Working pressure:

15 Bar

Negative pressure:

- 0,8 Bar ( - 80 Kpa)



Compressed air, vacuum and nitrogen



Polyethylene PE, polyamide PA, aluminium (only our AL series)

The system is only guaranteed by using fittings and tubes from our range



Parallel gas BSPP ISO 228  
G1/2" and G3/4"

## FEATURES

RAL 5015 and 7001 electrostatic coating

### Tube:

Aluminium EN AW-6060 T6 with fluoritanation treatment

### Fittings:

Body: POM

Collet: POM

Lock claw: Stainless steel AISI 301

Seal: EPDM

O-ring: EPDM

### Applique for wall installation:

FPSAS & FPDAS: SS AISI 316L

FPWLM1 & FPWLM2: Aluminium



Products in compliance with EC Regulation 1907/2006



Products in compliance with the directive EU 2015/863

## AL

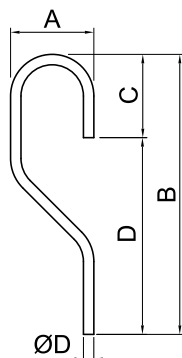
## Aluminium pipe 4 meters light blue



CODE	Ø ODxID	THICKNESS	LENGTH	g/m
AL1512-AZ-S	15x12	1,5	4 m	180,0
AL2219-AZ-S	22x19	1,5	4 m	240,0

## CC

## Aluminium drop bend light blue

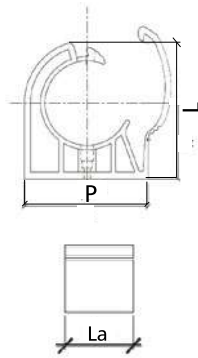


CODE	ØD	A	B	C	D	g
CC15	15	110	435	102,5	332,5	120
CC22	22	160	550	155	395	209



**STFT**

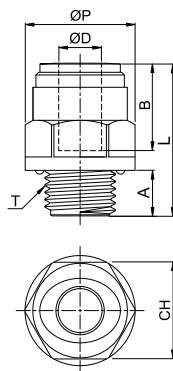
## Fixing clip for pipes



CODE	ØOD	P	L	La	g
STFT15	15	29,7	30,2	15	4
STFT22	22	39,5	38	15	6

**HPC-G**

## Male connector BSPP thread

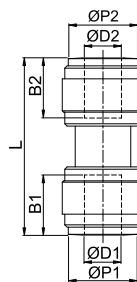


CODE	ØD	T	ØP	A	B	L	CH	g
* HPC12G04B	12	G 1/2"	28,5	12,5	24,7	32,7	26	12,4
HPC15G04B	15	G 1/2"	28,8	12,5	29,4	43,4	26	17,0
HPC15G06B	15	G 3/4"	39,0	14,5	29,4	39,0	33	24,5
HPC22G06B	22	G 3/4"	37,0	14,5	33,8	51,0	33	28,2

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727

**HUC**

## Union connector

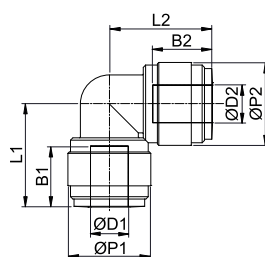


CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L	g
* HUC1212B	12	12	23	23	24,7	24,7	52,4	14,4
HUC1515B	15	15	28	28	29,4	29,4	61,8	23,4
HUC2222B	22	22	35,5	35,5	33,8	33,8	70,6	37,7

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727

**HUL**

## Union elbow



CODE	ØD1	ØD2	ØP1	ØP2	B1	B2	L1	L2	g
* HUL1212B	12	12	23	23	24,7	24,7	43,2	43,2	16,4
HUL1515B	15	15	28	28	29,4	29,4	52,2	52,2	27,4
HUL2222B	22	22	35,5	35,5	33,8	33,8	63,9	63,9	46,8

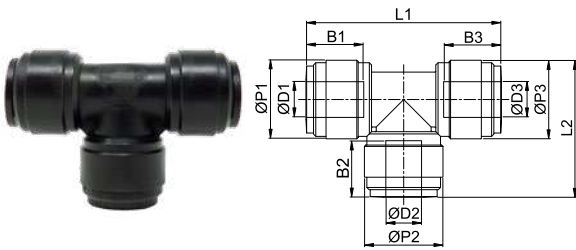
\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727





## HUT

## Union tee

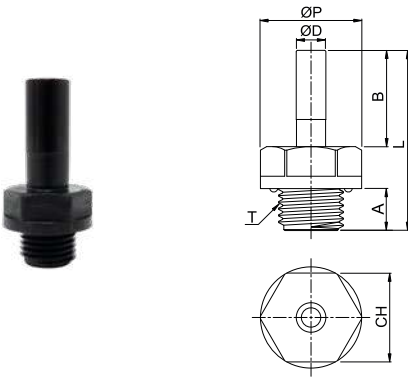


CODE	ØD1	ØD2	ØD3	ØP1	ØP2	ØP3	B1	B2	B3	L1	L2	g
* HUT1212B	12	12	12	23	23	23	24,7	24,7	24,7	63,4	43,2	23,2
HUT1515B	15	15	15	28	28	28	29,4	29,4	29,4	76,4	52,2	38,2
HUT2222B	22	22	22	35,5	35,5	35,5	33,8	33,8	33,8	92,3	63,9	64
REDUCED UNION TEE												
* HUT221222B	22	12	22	35,5	23	35,5	33,8	24,7	33,8	83	55,8	50,3
HUT221522B	22	15	22	35,5	28	35,5	33,8	30,4	33,8	87	61	57,1

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727

## HCJ-G

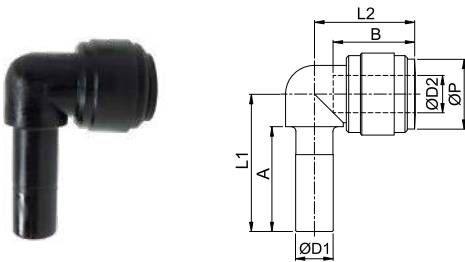
## Stem adapter BSPP thread



CODE	ØD	T	ØP	A	B	L	CH	g
HCJ12G04B	12	G 1/2"	28,5	12,5	28	49	26	11,2
HCJ15G03B	15	G 3/8"	24,2	9	35	52,5	22	9,5
HCJ15G04B	15	G 1/2"	28,8	12,5	36	57	26	13,1
HCJ22G04B	22	G 1/2"	28,4	12,5	41	62	26	16,8
HCJ22G06B	22	G 3/4"	39	14,5	41	67,5	33	25,8

## HLJ

## Union elbow tube with stem

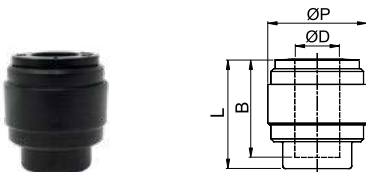


CODE	ØD1	ØD2	ØP	A	B	L1	L2	g
* HLJ1212B	12	12	23,6	29,5	24,7	51,2	39	12,6
HLJ1515B	15	15	28	35	29,4	61,3	48,5	21,7
HLJ2222B	22	22	35,5	41	33,8	75,5	58	38,9

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727

## HPF

## Female plug



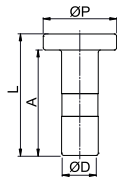
CODE	ØD	ØP	B	L	g
* HPF12B	12	23	24,7	26,7	7,3
HPF15B	15	28	29,4	32,1	12,6
HPF22B	22	35,5	33,8	36,6	20,6

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727



**HPP**

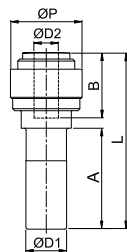
Male plug



CODE	ØD	ØP	A	L	g
HPP12B	12	21	30	34	4
HPP15B	15	25	36	40	6,4
HPP22B	22	33	41	45,5	12,2

**HGJ**

Stem reduction

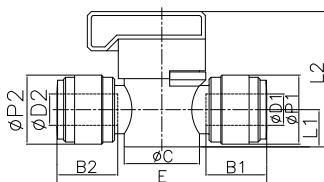
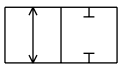


CODE	ØD1	ØD2	ØP	A	B	L	g
* HGJ1512B	15	12	23,6	35	24,7	61,7	11,3
HGJ2215B	22	15	28	41	29,4	70,4	19,7

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727

**HBVU**

Two-ways union hand valve, flow tube-tube

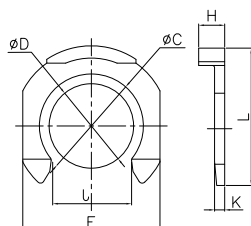


CODE	ØD1	ØD2	B1	B2	ØP1	ØP2	L1	L2	E	ØC	g
* HBVU1212B	12	12	23,7	23,7	23	23	12,5	42,3	70,4	24,2	35,4

\* Ø12 usable with PA12 tube on page 722 and PE tube on page 727

**HCP**

Locking clip

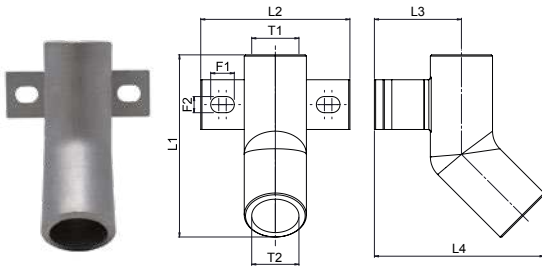


CODE	ØD	ØC	E	L	H	J	K	g
HCP12-1/2BL	12	14,4	19	19	3,6	11,1	1,4	0,3
HCP15BL	15	17	22,5	22,6	3,6	13,1	1,4	0,45
HCP22BL	22	24	30	29,3	3,8	19,1	1,9	0,84



## FPSAS

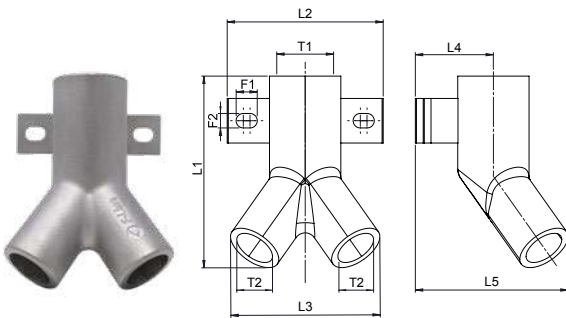
Single applique - Stainless steel AISI 316L



CODE	T1	T2	L1	L2	L3	L4	F1	F2	g
FPSAS-G04G04	G 1/2"	G 1/2"	73,5	60	35	68,5	9,5	6,5	159

## FPDAS

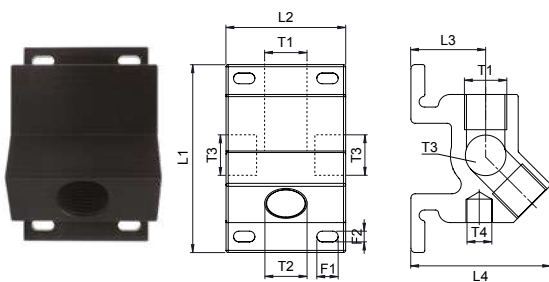
Double applique - Stainless steel AISI 316L



CODE	T1	T2	L1	L2	L3	L4	L5	F1	F2	g
FPDAS-G05G04	G 3/4"	G 1/2"	86	70	67	35	68,5	9,5	6,5	265

## FPWLM1

Single applique - Aluminium

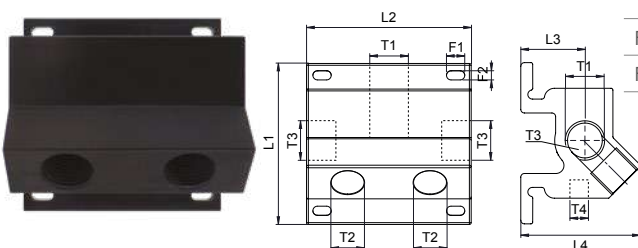


CODE	T1 IN	T2 OUT	T3	*T4	L1	L2	L3	L4	F1	F2	g
FPWLM1-G04G04	G 1/2"	1xG 1/2"	G 1/2"	G 1/4"	88	56	35	66	10	5	325

\* Blind thread

## FPWLM2

Double applique - Aluminium



CODE	T1 IN	T2 OUT	T3	*T4	L1	L2	L3	L4	F1	F2	g
FPWLM2-G04G04	G 1/2"	2xG 1/2"	G 1/2"	G 1/4"	88	90	35	65,7	10	5	530
FPWLM2-G05G04	G 3/4"	2xG 1/2"	G 1/2"	G 1/4"	88	90	35	65,7	10	5	515

\* Blind thread



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unico.

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# CHEMICAL SEAL TABLE AT 23°C

CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
ACETALDEHYDE	B - G			B	B
AMYL ACETATE	B	L			B
AMMONIUM ACETATE	B				
BUTYL ACETATE	B	L	L		B
POTASSIUM ACETATE (25°C)	B	B		B	B
METHYL ACETATE	B				B
ACETYLENE	B	B			B
VINEGAR				B	
ACETONE	B	L	P	L	B
ACETIC ACID 5%	B	B	L	B	B
BENZOIC ACID	B				B
BORIC ACID	B	B	L	B	B
BROMIC ACID				B	
CARBONIC ACID				B	B
PRUSSIC ACID				B	B
CITRIC ACID	B	B	L	B	B
HYDROCHLORIC ACID 10%	B	L	P	B	B
CHROMIC ACID 10% ACID	P	P	P	L	B
HYDROFLUORIC ACID 40%	P	P	P	B	P
FORMIC ACID 50%	P	P	P	B	B
PHOSPHORIC ACID 10%	B		L		B
LACTIC ACID 10%	B	L	P	B	B
MALEIC ACID				B	B
NITRIC ACID	P	P	P	P	B
OLEIC ACID	B	B			B
OXALIC ACID	B				B
PERCHLORIC ACID	P	P	P	P	B
PICRIC ACID	L				B
SALICYLIC ACID	B				
SUPHURIC ACID 10%	B	B	L	B	B
SUPHURIC ACID 30%	L			B	B
STEARIC ACID	B	L			B
SUCCINIC ACID	B				
TANNIC ACID 10%.		B			B
TARTARIC ACID	B	L			B
URIC ACID	B				
WATER	B	B	B		
WATER + CO2	B	B			



**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
BROMINE WATER - CHLORINE	P				
SEA WATER	B	B	B		
HYDROGEN PEROXIDE 20 VOL.	L			B	B
AQUA REGIA	P			P	B
AMYL ALCOHOL	B - G		L		
BENZYLIC ALCOHOL	L		P		B
BUTYL ALCOHOL				B	B
DENATURED ALCOHOL	B - G				B
DIACETONE ALCOHOL	B				
ETHYL ALCOHOL	B - G	B	P	B	B
ISOPROPYL ALCOHOL	B - G	B			B
METHYL ALCOHOL	B - G	B	P	B	B
ACETIC ALDEHYDE	B - G			B	B
BENZALDEHYDE	B				
ALUM	B			B	
ALUMINIUM				B	
STARCH	B				
PURE AMYL ACETATE				P	
AMINE			P		
AMMONIA	L	P	P	B	B
AMMONIA 10%	B	P	P	B	B
ACETIC ANHYDRIDE	L	L			B
CARBON DIOXIDE	B	B			B
PHOSPHORIC ANHYDRIDE				B	
SULFUR DIOXIDE	L	P		P	B
ANILINE	L - G	P	P		B
ANTIFREEZE	B		L		
ARCOPAL				B	
ARGON	B		P		
CALCIUM ARSENATE	B				
NITROGEN	B				
BENZALDEHYDE	B				
BENZENE	B		L	P	B
BENZINE	B	L	B	P	B
BENZOL	B	L	L		
SODIUM BICARBONATE	B				B
POTASSIUM BICHROMATE	L				
BIO DIESEL	B	L			
BEER				B	B
CARBON DISULPHIDE	B - G				
BITUMEN	B	L			
BORON	B				B
BROMINE	P	P	P	P	B
POTASSIUM BROMIDE				B	
ETHYL AND METHYL BROMIDE	B				
BUTTER				B	
BUTANE	B	B			B
COFFEE				B	
HYDRATED LIME	B				

**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action



CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
CHLORINE WATER 5%	B	L	P	B	B
CAMPHOR				B - L	
ASTM FUEL C + METHANOL 85/15			L		
AMMONIUM CARBONATE	B				
CHLORINE CARBONATE			L		
FLUORINE CARBONATE			L		
POTASSIUM CARBONATE	B				
SODIUM CARBONATE 50%	B				
CARBON				B	
ASTM FUEL A-B-C-D DIN 51604			P		
LIQUID WAX	B				
KETONES				L	B
CYCLOPENTANE	B				
SODIUM CHLORATE 25%	B				
CHLORINE	P	P		P	B
CHLORINE BENZENE	L	P			B
CHLOROFORM	L	P	P	P	B
CHLORONITROBENZENE	P				
ALUMINIUM CHLORIDE				B	B
AMMONIUM CHLORIDE	L	B			B
ETHYLENE CHLORIDE	B	L			B
BARIUM CHLORIDE	B				B
CALCIUM CHLORIDE	B	B	B		B
MAGNESIUM CHLORIDE 50%	B	L			B
METHYL CHLORIDE GAS	B				B
METHYLENE CHLORIDE LIQUID	L	P	P		B
POTASSIUM CHLORIDE	B				B
SODIUM CHLORIDE	B	B	B		B
TIN CHLORIDE	B				
VINYL CHLORIDE	B				B
ZINC CHLORIDE	B	B			B
FERRIC CHLORIDE	B	L		B	B
FERROUS CHLORIDE				B	B
CYCLOHEXANE	B	B	L		B
CYCLOHEXANOL	B				
CYCLOHEXANONE	B		P		B
DDT POWDER				B	
DECAYDRONAPHTHALINE	B				
DECALIN	B				B
SYNTHETIC DETERGENTS	B	L			
DETERGENTS				B	
DIBUTYL PHTHALATE				P	B
DICHLOROETHANE	L				
DICHLOROETHYLENE	L		P		
DIETHALONAMINE	B				B
DIPHENYL	B				
DIMETHYL KETONE	B	L	P		
DIMETHYLETHER (DME)	B				
DIMETHYLFORMAMIDE	B		P		



**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
DIMETHYLSULPHATE	B		P		
DIOCTYLPHOSPHATE	B				
DIOXINE	B				B
HELIUM	B		B		
PHOTOGRAPHIC EMULSIONS				B	
HEPTANE	B				
HEXANE	B				
ESSENCE OF TURPENTINE	B				
PETROLEUM ETHER	B				
ETHYL ESTER	B				
PHOSPHORIC ESTER	B				B
SULFATED ESTER	B				
FATTY ACID ESTERS	B				
TANNING EXTRACTS				B	
ETHER				P	
ETHYLBENZENE	B				
ETHYLENE	B				
PHENOL	P	P	P	P	B
IRON				B	
POTASSIUM FERROCYANIDE	B				
FLUORINE	P			P	P
FORANE	B				
FORANE 12 B1	L				
FORMALDEHYDE	L	L	P	B	B
FORMALIN	B				
FORMOL	B				
AMMONIUM PHOSPHATE	B				
AMMONIUM PHOSPHATE	B				B
TRISODIUM PHOSPHATE	B				
PHOSPHORUS				B	
FREON 11	B	B			L
FREON 12 - R22 - R134A - R404 - R407 - R410	B	B			L
FURFURAL	B - G				B
FURFUROL	B				B
LIGHTING GAS	B				
NATURAL GAS	B				B
DIESEL	B	B	B	P	B
GELATINE				B	
GLYCERINE	B - G	B	B		B
GLYCOL	B	L	L		B
GLUCOSE	B				B
GRAPHITE + WATER	B				
AMYL FAT	B				
ANIMAL FAT	B				B
HALON 2402	B				
HEXANOL			L		
AROMATIC HYDROCARBONS	B		P	P	B
HYDROQUINONE				B	
HYDROGEN	B	B	P		B

**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action





CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
HYDROGEN SULFIDE ( HYDROSULFURIC ACID)				B	B
AMMONIUM HYDROXIDE			L		B
POTASSIUM HYDROXIDE 50% (CAUSTIC POTASH)	L	P	P		B
SODIUM HYDROXIDE 10% (CAUSTIC SODA)	B	P	P	B	B
SODIUM HYDROXIDE 50% (CAUSTIC SODA)	L	P	P	B	B
SODIUM HYDROXIDE 100% (CAUSTIC SODA)	L	P	P	B	B
IGEPAL				L	
INKS				B	
IODINE				L	
IODINE OF POTASSIUM	B				
CALCIUM HYPOCHLORITE				B	B
ISOBUTANE	B		L		
ISOCYANATES	L	L	L		B
ISOCTANE	B				B
ISOFORANE	B				
ISOPROPANE			P		
KEROSENE	B	L			B
LANOLIN	B				
MILK			B	B	B
MILK OF LIME	B				
LATEX				B	
LEGUMINOUS VEGETABLES				B	
YEASTS				B	
POTASSIUM LYE	B				
CONCENTRATED SODA LYE	P				B
MAYONNAISE				B	
MARGARINE				B	
MERCURY	B				B
MERCURY CHROMIUM	B				
METHANE	B				
METHANOL (METHYL ALCOHOL)	B - G	B	P	B	
METHYL ETHYL KETONE	B	P	P	P	B
CREOSOL	P				B
HONEY				B	
CHLORBENZENE	L				B
CARBON MONOXIDE					B
MUSTARD				B	
DIESEL OIL	B	B			B
NAPHTHALENE	B	L			B
NEKANIL				P	
NICKEL				B	
AMMONIUM NITRATE	B		B		B
SILVER NITRATE				B	B
CALCIUM NITRATE	B				B
POTASSIUM NITRATE	B - G				B
SODIUM NITRATE	B		B		B
FERRIC NITRATE				B	B
NITROBENZENE	L - G	P			B
NITROMETHANE + 40/60% METHYL ALCOHOL	B - G				



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CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
OCTANO	B				
OLEUM	P	P			
PEANUT OIL	B	B			
ASTM OIL N°1, N°2, N°3		B	B		
FUEL OIL				L	B
CUTTING OIL					B
TRANSFORMER OIL	B				B
RAPESEED OIL	B	L			B
COTTON OIL				B	B
LINSEED OIL	B	L			B
METHYL OIL				P	
PARAFFIN OIL	B				
PINE OIL	B				B
PYRIDINE OIL	L				
CASTOR OIL				B	
SILICONE OIL	B				
BRAKE OIL DOT 3-4-5	L	B	P		B
HYDRAULIC OIL	B	B	B		B
ENGINE OIL	B	B			B
SAE 10 OIL		B			B
VEGETABLE OIL	B		B		B
ORTHO-DICHLOROBENZENE	L				
PHOSPHORUS OXYCHLORIDE	P				
ETHYLENE OXIDE	B	B			
OXYGEN	B	B	P		B
OZONE	P	L	L	P	B
PARADICHLOROBENZENE	B				
PARAFFIN	B				
ANTIMONY PENTACHLORIDE	P				
PENTANE	B		L		
PERCHLOROETHYLENE	L	P	P		B
POTASSIUM PERMANGANATE 5%	P				
DILAUROYL PEROXIDE	B				
ORGANIC PEROXIDE	L		L		B
PETROLEUM	B				B
TETRAETHYL LEAD	B				
PURE PYRIDINE	L	P	P		B
ALUMINIUM POLYCHLORIDE					B
POTASSIUM 50%	B			B	
PROPANE	B				B
NITROUS OXIDE	L	B			B
COPPER				B	
RESORCIN	P				
SEA SALT				B	
AQUEOUS ALUMINIUM SALTS	B				
SILVER SALTS	B				
BARIUM SALTS	B				
IRON SALTS	B				
MAGNESIUM SALTS	B				

**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action



CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
NICKEL SALTS	B				
COPPER SALTS	B				
ZINC SALTS	B				
SOAP SOLUTION	B	B			B
TALLOW	B				
SHAMPOO				B	
CIDER				B	
SILICATE	B				
CIANACRILIC SILICONE	B				
SILICONE GREASE - OIL	B	B	B		
SKYDROL 500B		B	L		B
ALUMINIUM SULPHATE	B		B		B
AMMONIUM SULPHATE	B	L	B		B
CALCIUM SULPHATE				B	B
MAGNESIUM SULPHATE				B	B
METHYL SULPHATE	B				
POTASSIUM SULPHATE	B				B
COPPER SULPHATE	B	B			
SODIUM SULPHATE	B				
ZINC SULPHATE				B	B
FERROUS SULPHATE				B	B
SODIUM SULPHITE	B		B		
AMMONIUM SULPHIDE				B	
CARBON SULPHIDE	B - G				
SODIUM SULPHIDE	B				
ZINC SULPHIDE	B				
WHITE SPIRIT	B				
STEARIN	B				
STYRENE	B	P			B
FRUIT JUICE			B	B	
CARBON TETRACHLORIDE	L	P	P		B
TITANIUM TETRACHLORIDE	P				
TETRAHYDROFURAN	B	L	P		
TETRAHYDRONAPHTHALENE	B				
TETRALIN	B				
THIOCARBONATE	B				
THIOPHEN	B				
SODIUM THIOSULPHATE	B				
TOLUENE	B		P	P	B
TOLUOL	B	L			
TRIBUTYLPHOSPHATE	B				B
TRICHLOROETHANE	L		P		
TRICHLOROETHYLENE	L - G	P	P	P	B
PHOSPHOROUS TRICHLORIDE	P				
TRICHRSEYLPHOSPHATE	B				
UREA	B		L		B
URINE				B	
WATER VAPOUR	P	P	P	B - L	B
VASELINE	B				



**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action

CHEMICAL COMPOUND	POLYAMIDES	POLYESTER	POLYURETHANE	POLYETHYLENE	PTFE
NITROCELLULOSE PAINTS	B				B
OIL PAINTS				P	B
VINYL PAINTS				L	B
WINE				B	B
WHISKY				B	B
XYLENE	B	L	P	L	
SULPHUR	B	L			B
SUGAR				B	B

**B:** Good resistance - **L:** Limited resistance - **P:** Poor resistance - **G:** Swelling action



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1169TR148	213	1171TR18723	214	1215TR18	275	1256	283
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1169TR187	213	1172TR186325	215	1216TR18	275	1265TR14	282
1169TR188	213	1172TR18638	215	1216TR38	275	1265TR18	282
1169TR189	213	1172TR187325	215	1218TR14	275	1265TR38	282
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1170TR1216	214	1176TRM1815	274	1230TR18	276	1280TR14	283
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1288TR7	284	1320TRM5M101	277	1412TR1814	310	1425TR34	311
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1290TR38	283	1322TR34M342	278	1416MF12	257	1426MF134	258
1291BG1019	284	1322TR38M2615	278	1416MF14	257	1426MF2112	258
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1291BG1021	284	1400TR12	366	1416MF34	257	1426MF3814	258
1291BG1022	284	1400TR14	366	1416MF38	257	1426TR1234	311
1291BG1023	284	1400TR18	366	1420MF112P3	257	1426TR1412	311
1291BG1319	284	1400TR34	366	1420MF114P3	257	1426TR1438	311
1291BG1320	284	1400TR38	366	1420MF12P3	257	1426TR1814	311
1291BG1323	284	1400TRN1	366	1420MF14P3	257	1426TR3812	311
1291BG1324	284	1400TRN12	366	1420MF18P3	257	1430TR12M2815	311
1291BG1325	284	1400TRN14	366	1420MF1P3	257	1430TR14M2015	311
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1292TR101938	286	1410MF112	256	1420MF2P3	257	1440MF1121	259
1292TR102012	286	1410MF114	256	1420MF34P3	257	1440MF112114	259
1292TR102038	286	1410MF12	256	1420MF38P3	257	1440MF11234	259
1292TR102112	286	1410MF14	256	1420MF3P3	257	1440MF1141	259
1292TR102138	286	1410MF18	256	1420MF4P3	257	1440MF11412	259
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1449TRH114-V	315	1469TR3810	244	1490MF38	262	1521TR100814-A	764
1449TRH12-V	315	1475MF1	260	1490MF4	262	1521TR106514-A	764
1449TRH14-V	315	1475MF112	260	1505TR0604-A	762	1521TR120838-A	764
1449TRH18-V	315	1475MF114	260	1505TR0805-A	762	1521TR121038-A	764
1449TRH34-V	315	1475MF12	260	1505TR0806-A	762	1522TR060412-A	764
1449TRH38-V	315	1475MF14	260	1505TR1008-A	762	1522TR060414-A	764
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1469MF112T40	260	1485MF18	261	1510TR121038-A	763	1600TR3412	278
1469MF114T34	260	1485MF2	261	1515TR060414-A	763	1600TR3814	278
1469MF12T15	260	1485MF212	261	1515TR060418-A	763	1600TR3818	278
1469MF14T9	260	1485MF3	261	1515TR080514-A	763	1600TRM518	278
1469MF18T7	260	1485MF34	261	1515TR080518-A	763	1605TR12	402
1469MF1T27	260	1485MF38	261	1515TR080614-A	763	1605TR14	402
1469MF212T65	260	1485MF4	261	1515TR080618-A	763	1605TR38	402
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1469MF38T11	260	1490MF114	262	1515TR120838-A	763	1610TR18	400
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1700TR14L	381	1802TRN3412	296	1825TR38	293	1840TRN3814	298
1700TR18L	381	1802TRN3414	296	1825TRN12	297	1840TRN3818	298
1700TR38L	381	1802TRN3418	296	1825TRN14	297	1850TR1	295
1700TRM5L	381	1802TRN3438	296	1825TRN18	297	1850TR12	295
1705TR1	389	1802TRN3814	296	1825TRN38	297	1850TR14	295
1705TR112L	384	1802TRN3818	296	1827TR1214	293	1850TR18	295
1705TR114L	384	1810TR12	292	1827TR1238	293	1850TR34	295
1705TR12	389	1810TR14	292	1827TR1418	293	1850TR38	295
1705TR12L	384	1810TR18	292	1827TR3412	293	1850TRN12	298
1705TR14	389	1810TR38	292	1827TR3414	293	1850TRN14	298
1705TR18	389	1810TRN14	296	1827TR3814	293	1850TRN18	298
1705TR1L	384	1810TRN18	296	1827TR3818	293	1850TRN34	298
1705TR212L	384	1812TR1238	292	1827TRN1214	297	1850TRN38	298
1705TR2L	384	1812TR1418	292	1827TRN1238	297	1855TR12	295
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1705TR3L	384	1820TR1218	293	1830TR14	394	1875TR12	295
1705TR4L	384	1820TR1238	293	1830TR18	394	1875TR14	295
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1800TRN12	296	1820TRN1414	297	1840TR1218	394	1912TR3814	302
1800TRN14	296	1820TRN1418	297	1840TR1238	394	1920TR1212	303
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6670TR1	431	8008TR5	488	8195MO46	504	8245PO1023	527
6670TR12	431	8008TR6	488	8195MO68	504	8245PO1319	527
6670TR14	431	8008TR8	488	8195MO810	504	8245PO1320	527
6670TR18	431	8060MM02	518	8210FM01	510	8245PO1321	527
6670TR34	431	8060MM03	518	8210FM02	510	8245PO1323	527
6670TR38	431	8060MM04	518	8210FM03	510	8245PO1324	527
6700TR1	431	8070FM02	518	8210FM04	510	8245PO1325	527
6700TR12	431	8070FM03	518	8215FM03	526	8250MO1012	511
6700TR14	431	8070FM04	518	8215FM04	526	8250MO46	511
6700TR18	431	8080RE06	518	8220FF01	510	8250MO58	511
6700TR34	431	8080RE08	518	8220FF02	510	8250MO6510	511
6700TR38	431	8080RE10	518	8220FF03	510	8250MO68	511
6750TR12	431	8080RE12	518	8220FF04	510	8250MO810	511
6750TR14	431	8085PO10145	519	8225FF03	526	8255MM03	527
6750TR18	431	8085PO1017	519	8225FF04	526	8255MM04	527
6750TR38	431	8085PO1019	519	8230PO1017	512	8260MM01	511
6780TR1	432	8085PO610	519	8230PO1019	512	8260MM02	511
6780TR12	432	8085PO612	519	8230PO610	512	8260MM03	511
6780TR14	432	8085PO614	519	8230PO612	512	8260MM04	511
6780TR18	432	8085PO812	519	8230PO613	512	8270FM01	511



8270FM02	511	8380RE09	516	8460MM03	522	9110TR18	630
8270FM03	511	8380RE10	516	8460MM04	522	9110TR18-F	632
8270FM04	511	8380RE11	516	8470FF02	522	9110TR34	630
8285BM55	512	8380RE12	516	8470FF03	522	9110TR38	630
8295MO1012	512	8380RE13	516	8470FF04	522	9110TR38-F	632
8295MO46	512	8380RE14	516	8480RE06	522	9120TR12	630
8295MO58	512	8390PO1019	515	8480RE08	522	9120TR12-F	632
8295MO6510	512	8390PO610	515	8480RE10	522	9120TR14	630
8295MO68	512	8390PO612	515	8480RE12	522	9120TR14-F	632
8295MO810	512	8390PO614	515	8485PO10145	523	9120TR18	630
8295MO812	512	8390PO716	515	8485PO1017	523	9120TR18-F	632
8310FM01	514	8390PO812	515	8485PO1019	523	9120TR34	630
8310FM02	514	8390PO815	515	8485PO610	523	9120TR38	630
8310FM03	514	8390PO817	515	8485PO612	523	9120TR38-F	632
8310FM04	514	8395MO1012	516	8485PO614	523	9130TR12	630
8320FF02	514	8395MO46	516	8485PO812	523	9130TR14	630
8320FF03	514	8395MO58	516	8485PO814	523	9130TR38	630
8320FF04	514	8395MO6510	516	8485PO817	523	9142TR12	634
8330RE06	514	8395MO68	516	8490MO1012	523	9142TR14	634
8330RE07	514	8395MO810	516	8490MO46	523	9142TR18	634
8330RE08	514	8395MO812	516	8490MO58	523	9142TR38	634
8330RE09	514	8410FM02	506	8490MO6510	523	9162TR12	634
8330RE10	514	8410FM02LU	507	8490MO68	523	9162TR14	634
8330RE11	514	8410FM03	506	8490MO810	523	9162TR18	634
8330RE12	514	8410FM03LU	507	8490MO812	523	9162TR38	634
8330RE13	514	8410FM04	506	8910FM02	530	9170TR1	656
8330RE14	514	8410FM04LU	507	8910FM03	530	9170TR12	656
8340PO1019	516	8420FF02	506	8910FM04	530	9170TR14	656
8340PO610	516	8420FF02LU	507	8920FF02	530	9170TR18	656
8340PO612	516	8420FF03	506	8920FF03	530	9170TR34	656
8340PO614	516	8420FF03LU	507	8920FF04	530	9170TR38	656
8340PO716	516	8420FF04	506	8930RE08	530	9180TR1	656
8340PO812	516	8430RE06	506	8930RE10	530	9180TR12	656
8340PO815	516	8430RE08	506	8930RE12	530	9180TR14	656
8340PO817	516	8430RE10	506	8960MM02	531	9180TR18	656
8350MO1012	515	8430RE12	506	8960MM03	531	9180TR34	656
8350MO46	515	8440PO10145	506	8960MM04	531	9180TR38	656
8350MO58	515	8440PO1017	506	8970FM02	531	9203TR1	636
8350MO6510	515	8440PO1019	506	8970FM03	531	9203TR112	636
8350MO68	515	8440PO610	506	8970FM04	531	9203TR114	636
8350MO810	515	8440PO612	506	8980RE06	531	9203TR12	636
8350MO812	515	8440PO614	506	8980RE08	531	9203TR2	636
8360MM01	515	8440PO812	506	8980RE10	531	9203TR34	636
8360MM02	515	8440PO814	506	9020TR14	413	9203TR38	636
8360MM03	515	8440PO817	506	9020TR14-PVDF	414	9204TR1	636
8360MM04	515	8450MO1012	507	9030TR14	418	9204TR112	636
8370FM02	515	8450MO58	507	9030TR18	418	9204TR114	636
8370FM03	515	8450MO6510	507	9031TR8	418	9204TR12	636
8370FM04	515	8450MO68	507	9110TR12	630	9204TR2	636
8380RE06	516	8450MO810	507	9110TR12-F	632	9204TR34	636
8380RE07	516	8450MO812	507	9110TR14	630	9204TR38	636
8380RE08	516	8460MM02	522	9110TR14-F	632	9208TR1	638



9208TR112	638	9214TR2	642	9280TR1	652	9342TR34	662
9208TR114	638	9214TR34	642	9280TR112	652	9342TR38	662
9208TR12	638	9214TR38	642	9280TR114	652	9350TR1	664
9208TR14	638	9220TR1	644	9280TR12	652	9350TR112	664
9208TR2	638	9220TR112	644	9280TR14	652	9350TR114	664
9208TR34	638	9220TR114	644	9280TR2	652	9350TR12	664
9208TR38	638	9220TR12	644	9280TR34	652	9350TR2	664
9210TR1	644	9220TR14	644	9280TR38	652	9350TR212	664
9210TR112	644	9220TR2	644	9282TR1	653	9350TR3	664
9210TR114	644	9220TR34	644	9282TR112	653	9350TR34	664
9210TR12	644	9220TR38	644	9282TR114	653	9350TR4	664
9210TR14	644	9230TR1	645	9282TR12	653	9350TR5	664
9210TR2	644	9230TR112	645	9282TR14	653	9350TR6	664
9210TR212	644	9230TR114	645	9282TR2	653	9400TR1	665
9210TR3	644	9230TR12	645	9282TR34	653	9400TR112	665
9210TR34	644	9230TR14	645	9282TR38	653	9400TR114	665
9210TR38	644	9230TR2	645	9320TR1	658	9400TR12	665
9210TR4	644	9230TR34	645	9320TR112	658	9400TR14	665
9210TRH1	648	9230TR38	645	9320TR114	658	9400TR2	665
9210TRH112	648	9240TR1	644	9320TR12	658	9400TR34	665
9210TRH114	648	9240TR114	644	9320TR14	658	9400TR38	665
9210TRH12	648	9240TR12	644	9320TR2	658	9611TR12	671
9210TRH14	648	9240TR14	644	9320TR212	658	9611TR14	671
9210TRH2	648	9240TR34	644	9320TR3	658	9611TR18	671
9210TRH212	648	9240TR38	644	9320TR34	658	9611TR38	671
9210TRH3	648	9250TR1	645	9320TR38	658	9613TR12	668
9210TRH34	648	9250TR114	645	9320TR4	658	9613TR14	668
9210TRH38	648	9250TR12	645	9325TR1	660	9613TR38	668
9210TRH4	648	9250TR14	645	9325TR112	660	9614TR12	669
9210TRHS1	650	9250TR34	645	9325TR114	660	9614TR14	669
9210TRHS112	650	9250TR38	645	9325TR12	660	9614TR38	669
9210TRHS114	650	9260TR1	645	9325TR14	660	9615TR12	670
9210TRHS12	650	9260TR12	645	9325TR2	660	9615TR14	670
9210TRHS2	650	9260TR14	645	9325TR212	660	9615TR38	670
9210TRHS34	650	9260TR34	645	9325TR3	660	ACD-100E	557
9210TRHS38	650	9260TR38	645	9325TR34	660	ACD-100E-10	557
9212TR1	640	9270TR1	652	9325TR38	660	ACD-100E-10-L	557
9212TR112	640	9270TR112	652	9325TR4	660	ACD-100E-10X	557
9212TR114	640	9270TR114	652	9340TR1	662	ACD-100E-12X	557
9212TR12	640	9270TR12	652	9340TR112	662	ACD-100E-L	557
9212TR14	640	9270TR14	652	9340TR114	662	ACD-100E-X	557
9212TR2	640	9270TR2	652	9340TR12	662	ACD-100H	557
9212TR212	640	9270TR34	652	9340TR14	662	ACD-100H-L	557
9212TR3	640	9270TR38	652	9340TR2	662	ACD-100H-X	557
9212TR34	640	9272TR1	653	9340TR34	662	ACD-100H-X-316	557
9212TR38	640	9272TR112	653	9340TR38	662	ACD-100M	556
9212TR4	640	9272TR114	653	9342TR1	662	ACD-100M-L	556
9214TR1	642	9272TR12	653	9342TR112	662	ACD-100M-X	556
9214TR112	642	9272TR14	653	9342TR114	662	ACD-12E6	539
9214TR114	642	9272TR2	653	9342TR12	662	ACD-12E6-X	539
9214TR12	642	9272TR34	653	9342TR14	662	ACD-12E8	539
9214TR14	642	9272TR38	653	9342TR2	662	ACD-12E8-X	539



ACD-12H	539	ACLD-150X-316	561	AEU-DO75E8-316V	606	ASF-B01N	342
ACD-12H-X	539	ACLD-150X-316-P	561	AEU-DO75H12	605	ASF-B02N	342
ACD-12H1	539	ACLD-150X-P	561	AEU-DO75H12-316V	605	ASF-B03N	342
ACD-12H1-X	539	ACLD-25-L	544	AEU-DO75H14	605	ASF-B04N	342
ACD-12M	539	ACLD-25-X	544	AEU-DO75H14-316V	605	ASF-U01N	342
ACD-12M-X	539	ACLD-50-L	553	AEU-DO75H38	605	ASF-U02N	342
ACD-12M1	539	ACLD-50-X	553	AEU-DO75H38-316V	605	ASF-U03N	342
ACD-12M1-X	539	ACRHL12-H12	615	AEU-DO75M12	605	ASF-U04N	342
ACD-150E-L	561	ACRHL12-H12-303	615	AEU-DO75M12-316V	605	ASR-HH06	770
ACD-150E-X	561	ACRHL12-H12-316	615	AEU-DO75M14	605	ASR-HH06BL	770
ACD-150E-X-316	561	ACRHL12-H14	615	AEU-DO75M14-316V	605	ASR-HH06RO	770
ACD-150H-L	561	ACRHL12-H14-303	615	AEU-DO75M38	605	ASR-HH10	770
ACD-150H-LP	561	ACRHL12-H38	615	AEU-DO75M38-316V	605	ASR-HH10BL	770
ACD-150H-X	561	ACRHL12-H38-303	615	AL1512-AZ-S	783	ASR-HH10RO	770
ACD-150H-X-316	561	ACRHL12-H38-316	615	AL2219-AZ-S	783	ASR-HH13	770
ACD-150H-X-316-P	561	ACRHL12-M12G-303C	615	AMC-H18-L	584	ASR-HH13BL	770
ACD-150H-X-P	561	ACRHL12-M12G-316C	615	AMN-E6-L	588	ASR-HH13RO	770
ACD-150M-L	560	ACRM-55-E8	619	AMN-E8-L	588	ASR-HH16	770
ACD-150M-LP	560	ACRM-55H	619	AMN-H-316	588	ASR-HH16BL	770
ACD-150M-X	560	ACRM-55H-3/8	619	AMN-HL	588	ASR-HH16RO	770
ACD-150M-X-316	560	ACRM-55HL	619	AMN-H1-316	588	ASR-PU06	771
ACD-150M-X-316-P	560	ACRM-55H-X	619	AMN-H1-L	588	ASR-PU06AZ	771
ACD-150M-X-P	560	ACRM-55H1	619	AMN-M-316	588	ASR-PU06NE	771
ACD-25-PM08	549	ACRM-55H1-L	619	AMN-ML	588	ASR-PU06RO	771
ACD-25-PM10	549	ACRM-55M	619	AMN-M1-316	588	ASR-PU06VD	771
ACD-25E	549	ACRM-55M-3/8	619	AMN-M1-L	588	ASR-PU10	771
ACD-25E-10	549	ACRM-55M-L	619	AMN-RR6-316	589	ASR-PU10AZ	771
ACD-25E-L	549	ACRM-55M-X	619	AMN-RR6-L	589	ASR-PU10NE	771
ACD-25E-X	549	ACRM-55M1	619	AMN-RR6R-L	589	ASR-PU10RO	771
ACD-25H	549	ACRM-55M1-L	619	AMN-RR8-316	589	ASR-PU10VD	771
ACD-25H-3/8	549	AEU-75E	602	AMN-RR8-L	589	ASR-PU13	771
ACD-25HL	549	AEU-75E-X	602	AMN-RR8R-L	589	ASR-PU13AZ	771
ACD-25HX	549	AEU-75E10	602	AMNDO-E6-316V	595	ASR-PU13NE	771
ACD-25M	548	AEU-75E10-316	602	AMNDO-E6-L	595	ASR-PU13RO	771
ACD-25M-3/8	548	AEU-75E12-316	602	AMNDO-E8-316V	595	ASR-PU13VD	771
ACD-25M-3/8-X	548	AEU-75H	602	AMNDO-E8-L	595	ASR-PU16	771
ACD-25ML	548	AEU-75H-316	602	AMNDO-H-316V	594	ASR-PU16AZ	771
ACD-25M-X	548	AEU-75H-X	602	AMNDO-HL	594	ASR-PU16NE	771
ACD-50E	553	AEU-75H12-316	602	AMNDO-H1-316V	594	ASR-PU16RO	771
ACD-50E-L	553	AEU-75H38	602	AMNDO-H1-L	594	ASR-PU16VD	771
ACD-50E-X	553	AEU-75H38-316	602	AMNDO-M-316V	594	ASR-PU20	771
ACD-50H	553	AEU-75M	601	AMNDO-M-L	594	ASR-PU20AZ	771
ACD-50HL	553	AEU-75M-316	601	AMNDO-M1-316V	594	ASR-PU20NE	771
ACD-50H-X	553	AEU-75M-X	601	AMNDO-M1-L	594	ASR-PU20RO	771
ACD-50M	552	AEU-75M12-316	601	AMNDO-M3-316V	594	ASR-PU20VD	771
ACD-50ML	552	AEU-75M38	601	AMNDO-MM6-316V	595	ASR06	769
ACD-50M-X	552	AEU-75M38-316	601	AMNDO-MM6-L	595	ASR06BL	769
ACLD-100-L	557	AEU-75PM08	602	AMNDO-MM8-L	595	ASR06NE	769
ACLD-100-X	557	AEU-75PM08-X	602	AMNDO-RR6-L	595	ASR06RO	769
ACLD-150-L	561	AEU-75PM10	602	AMNDO-RR8-L	595	ASR06VD	769
ACLD-150-X	561	AEU-DO75E10	606	AMNDO-RR6R-L	596	ASR10	769
ACLD-150L-P	561	AEU-DO75E8	606	AMNDO-RR8R-L	596	ASR10BL	769



ASR10NE	769	CD-12E8-X-PL	538	CD-25N-H1/4-PL	546	CN14	683
ASR10RO	769	CD-12H	538	CD-25N-H3/8	546	CRHL12-H12	614
ASR10VD	769	CD-12H-PL	538	CD-25N-H3/8-PL	546	CRHL12-H12-303	614
ASR13	769	CD-12H-X	538	CD-25N-M1/2	546	CRHL12-H12-303R	615
ASR13BL	769	CD-12H-X-PL	538	CD-25N-M1/2-PL	546	CRHL12-H12-316	614
ASR13NE	769	CD-12H1	538	CD-25N-M1/2G	546	CRHL12-H12-316R	615
ASR13RO	769	CD-12H1-PL	538	CD-25N-M1/2G-PL	546	CRHL12-H12R	615
ASR13VD	769	CD-12H1-X	538	CD-25N-M1/4	546	CRHL12-H38	614
ASR16	769	CD-12H1-X-PL	538	CD-25N-M1/4-PL	546	CRHL12-H38-303	614
ASR16BL	769	CD-12M	538	CD-25N-M1/4G	546	CRHL12-H38-303R	615
ASR16NE	769	CD-12M-PL	538	CD-25N-M1/4G-PL	546	CRHL12-H38-316	614
ASR16RO	769	CD-12M-X	538	CD-25N-M3/8	546	CRHL12-H38-316R	615
ASR16VD	769	CD-12M-X-PL	538	CD-25N-M3/8-PL	546	CRHL12-H38R	615
ASR20	769	CD-12M1	538	CD-25N-M3/8G	546	CRHL12-M12G-303	614
ASR20BL	769	CD-12M1-PL	538	CD-25N-M3/8G-PL	546	CRHL12-M12G-303R	614
ASR20NE	769	CD-12M1-X	538	CD-25N-PM08	547	CRHL12-M12G-316	614
ASR20RO	769	CD-12M1-X-PL	538	CD-25N-PM08-PL	547	CRHL12-M12G-316R	614
ASR20VD	769	CD-150-L	560	CD-25N-PM10	547	CRM-55-1/2-M	618
ASR25	769	CD-150-L-P	560	CD-25N-PM10-PL	547	CRM-55-1/2-PL-M	618
ASR25BL	769	CD-150-L-P-PL	560	CD-25S-E10	548	CRM-55-3/8	618
ASR25NE	769	CD-150-L-PL	560	CD-25S-E12	548	CRM-55-3/8-M	618
ASR25RO	769	CD-150-X	560	CD-25S-E13	548	CRM-55-3/8-PL	618
ASR25VD	769	CD-150-X-316	560	CD-25S-E6	548	CRM-55-3/8-PL-M	618
CAF005FG	470	CD-150-X-316-P	560	CD-25S-E8	548	CRM-55-E	618
CAF010FG	470	CD-150-X-316-P-PL	560	CD-25S-H1/2	547	CRM-55-PL-E	618
CAF020FG	470	CD-150-X-316-PL	560	CD-25S-H1/4	547	CVFF-R01	380
CAF030FG	470	CD-150-X-P	560	CD-25S-H3/8	547	CVFF-R02	380
CAS04N	112	CD-150-X-P-PL	560	CD-25S-M1/2	547	CVFF-R03	380
CAS06N	112	CD-150-X-PL	560	CD-25S-M1/2G	547	CVFF-R04	380
CAS08N	112	CD-25	542	CD-25S-M1/4	547	CVPC04G01	378
CAS10N	112	CD-25-3/8	542	CD-25S-M1/4G	547	CVPC04G01-IN	379
CAS12N	112	CD-25-3/8-PL	542	CD-25S-M3/8	547	CVPC04M5	378
CB01F010FG	474	CD-25-3/8X	542	CD-25S-M3/8G	547	CVPC04M5-IN	379
CB01F020FG	474	CD-25-3/8X-PL	542	CD-25S-PM08	548	CVPC04M6	378
CB01F030FG	474	CD-25-L	542	CD-25S-PM10	548	CVPC04M6-IN	379
CC15	783	CD-25-L-PL	542	CD-50	552	CVPC04R01	378
CC22	783	CD-25-PL	542	CD-50-L	552	CVPC04R01-IN	378
CD-100	556	CD-25-X	542	CD-50-L-PL	552	CVPC06G01	378
CD-100-L	556	CD-25-X-PL	542	CD-50-PL	552	CVPC06G01-IN	379
CD-100-L-PL	556	CD-25NE10	546	CD-50-X	552	CVPC06G02	378
CD-100-PL	556	CD-25NE10-PL	546	CD-50-X-PL	552	CVPC06G02-IN	379
CD-100-X	556	CD-25NE12	546	CK04R01	122	CVPC06R01	378
CD-100-X-316	556	CD-25NE12-PL	546	CK06R01	122	CVPC06R01-IN	378
CD-100-X-316-PL	556	CD-25NE13	546	CK06R02	122	CVPC06R02	378
CD-100-X-PL	556	CD-25NE13-PL	546	CK08R01	122	CVPC06R02-IN	378
CD-12E6	538	CD-25NE-E6	546	CK08R02	122	CVPC08G01	378
CD-12E6-PL	538	CD-25NE-E6-PL	546	CK08R03	122	CVPC08G01-IN	379
CD-12E6-X	538	CD-25NE-E8	546	CK10R02	122	CVPC08G02	378
CD-12E6-X-PL	538	CD-25NE-E8-PL	546	CK10R03	122	CVPC08G02-IN	379
CD-12E8	538	CD-25NH1/2	546	CK12R02	122	CVPC08R01	378
CD-12E8-PL	538	CD-25NH1/2-PL	546	CK12R03	122	CVPC08R01-IN	378
CD-12E8-X	538	CD-25NH1/4	546	CK12R04	122	CVPC08R02	378





CVPC08R02-IN	378	DDFC-12L-03G	196	DDN-04LL	197	ESC10R02-L	362
CVPC10G03	378	DDFC-12L-04G	196	DDN-06L	197	ESC10R02-M	362
CVPC10G03-IN	379	DDFC-15L-04G	196	DDN-08L	197	ESC10R03-L	362
CVPC10G04	378	DDFC-16S-04G	196	DDN-10L	197	ESC10R03-M	362
CVPC10G04-IN	379	DDL-04LL	197	DDN-12L	197	ESC10R04-L	362
CVPC10R03	378	DDL-06L	197	DDN-15L	197	ESC12G02-L	362
CVPC10R03-IN	378	DDL-08L	197	DDN-16S	197	ESC12G03-L	362
CVPC10R04	378	DDL-10L	197	DDS-04LL	198	ESC12G04-L	362
CVPC10R04-IN	378	DDL-12L	197	DDS-06L	198	ESC12R02-L	362
CVPC12G03	378	DDL-15L	197	DDS-08L	198	ESC12R03-L	362
CVPC12G03-IN	379	DDL-16S	197	DDS-10L	198	ESC12R04-L	362
CVPC12G04	378	DDL-04LL-01R	196	DDS-12L	198	ETC-20	766
CVPC12G04-IN	379	DDL-06L-01R	196	DDS-15L	198	ETC-B	766
CVPC12R03	378	DDL-06S-02R	196	DDS-16S	198	EU-75N-E10	599
CVPC12R03-IN	378	DDL-08L-02R	196	DDT-04LL	197	EU-75N-E10-316V	599
CVPC12R04	378	DDL-08LL-01R	196	DDT-06L	197	EU-75N-E10-316V-PL	599
CVPC12R04-IN	378	DDL-10L-02R	196	DDT-08L	197	EU-75N-E10-PL	599
CVPF01G01	380	DDL-10S-03R	196	DDT-10L	197	EU-75N-E10-X	599
CVPF01G01-IN	380	DDL-12L-03R	196	DDT-12L	197	EU-75N-E10-X-PL	599
CVPF01R01	379	DDL-15L-04R	196	DDT-15L	197	EU-75N-E12	599
CVPF01R01-IN	380	DDL-16S-04R	196	DDT-16S	197	EU-75N-E12-PL	599
CVPF02G02	380	DDMC-04LL-01R	195	DDU-04LL	196	EU-75N-E12-X	599
CVPF02G02-IN	380	DDMC-06L-01G	195	DDU-06L	196	EU-75N-E12-X-PL	599
CVPF02R02	379	DDMC-06L-01R	195	DDU-08L	196	EU-75N-E13	599
CVPF02R02-IN	380	DDMC-06L-02G	195	DDU-10L	196	EU-75N-E13-PL	599
CVPF03G03	380	DDMC-06L-03G	195	DDU-12L	196	EU-75N-E6	599
CVPF03G03-IN	380	DDMC-06L-04G	195	DDU-15L	196	EU-75N-E6-PL	599
CVPF03R03	379	DDMC-08L-01G	195	DDU-16S	196	EU-75N-E8	599
CVPF03R03-IN	380	DDMC-08L-02G	195	ESC04M3	360	EU-75N-E8-316V	599
CVPF04G04	380	DDMC-08L-02R	195	ESC04M5	360	EU-75N-E8-316V-PL	599
CVPF04G04-IN	380	DDMC-08L-03G	195	ESC06G01-S	362	EU-75N-E8-PL	599
CVPF04R04	379	DDMC-08L-04G	195	ESC06G02-S	362	EU-75N-E8-X	599
CVPF04R04-IN	380	DDMC-08LL-01R	195	ESC06M5	360	EU-75N-E8-X-PL	599
CVPU04	379	DDMC-10L-02G	195	ESC06R01-S	362	EU-75N-H1/2	599
CVPU06	379	DDMC-10L-02R	195	ESC06R02-S	362	EU-75N-H1/2-316V	599
CVPU08	379	DDMC-10L-03G	195	ESC08G01-M	362	EU-75N-H1/2-316V-PL	599
CVPU10	379	DDMC-10L-04G	195	ESC08G01-S	362	EU-75N-H1/2-PL	599
CVPU12	379	DDMC-12L-02G	195	ESC08G02-M	362	EU-75N-H1/2-X	599
DDBU-06L	197	DDMC-12L-02R	195	ESC08G02-S	362	EU-75N-H1/2-X-PL	599
DDBU-08L	197	DDMC-12L-03G	195	ESC08G03-M	362	EU-75N-H1/4	599
DDBU-10L	197	DDMC-12L-03R	195	ESC08R01-M	362	EU-75N-H1/4-316V	599
DDBU-12L	197	DDMC-12L-04G	195	ESC08R01-S	362	EU-75N-H1/4-316V-PL	599
DDBU-15L	197	DDMC-12L-04R	195	ESC08R02-M	362	EU-75N-H1/4-PL	599
DDBU-16S	197	DDMC-12L-06G	195	ESC08R02-S	362	EU-75N-H1/4-X	599
DDFC-06L-01G	196	DDMC-15L-03G	195	ESC08R03-M	362	EU-75N-H1/4-X-PL	599
DDFC-06S-02G	196	DDMC-15L-03R	195	ESC10G01-M	362	EU-75N-H3/8	599
DDFC-08L-02G	196	DDMC-15L-04G	195	ESC10G02-L	362	EU-75N-H3/8-316V	599
DDFC-08L-03G	196	DDMC-15L-04R	195	ESC10G02-M	362	EU-75N-H3/8-316V-PL	599
DDFC-08L-04G	196	DDMC-15L-06G	195	ESC10G03-L	362	EU-75N-H3/8-PL	599
DDFC-10L-02G	196	DDMC-16S-03G	195	ESC10G03-M	362	EU-75N-H3/8-X	599
DDFC-10L-03G	196	DDMC-16S-04G	195	ESC10G04-L	362	EU-75N-H3/8-X-PL	599
DDFC-10L-04G	196	DDMC-16S-06G	195	ESC10R01-M	362	EU-75N-M1/2	598



EU-75N-M1/2-316V	598	EU-DO75H12	604	FEPO425	736	FLUID-10N-M1/2-PL	570
EU-75N-M1/2-316V-PL	598	EU-DO75H12-316V	604	FEPO425TR	736	FLUID-10N-M1/2-X	570
EU-75N-M1/2-PL	598	EU-DO75H14	604	FEPO425TR-25BX	736	FLUID-10N-M1/2-X-PL	570
EU-75N-M1/2-X	598	EU-DO75H14-316V	604	FEPO604	736	FLUID-10N-M1/2G	570
EU-75N-M1/2-X-PL	598	EU-DO75H38	604	FEPO604TR	736	FLUID-10N-M1/2G-PL	570
EU-75N-M1/2G	598	EU-DO75H38-316V	604	FEPO604TR-25BX	736	FLUID-10N-M1/4	570
EU-75N-M1/2G-PL	598	EU-DO75M12	604	FEPO806	736	FLUID-10N-M1/4-316X	570
EU-75N-M1/4	598	EU-DO75M12-316V	604	FEPO806TR	736	FLUID-10N-M1/4-316X-PL	570
EU-75N-M1/4-316V	598	EU-DO75M14	604	FEPO806TR-25BX	736	FLUID-10N-M1/4-LX	570
EU-75N-M1/4-316V-PL	598	EU-DO75M14-316V	604	FLUID-10N-E10	571	FLUID-10N-M1/4-LX-PL	570
EU-75N-M1/4-PL	598	EU-DO75M38	604	FLUID-10N-E10-LX	571	FLUID-10N-M1/4-PL	570
EU-75N-M1/4-X	598	EU-DO75M38-316V	604	FLUID-10N-E10-LX-PL	571	FLUID-10N-M1/4-X	570
EU-75N-M1/4-X-PL	598	EUROFLUID-E10	608	FLUID-10N-E10-PL	571	FLUID-10N-M1/4-X-PL	570
EU-75N-M1/4G	598	EUROFLUID-E10-PL	608	FLUID-10N-E10-X	571	FLUID-10N-M1/4G	570
EU-75N-M1/4G-PL	598	EUROFLUID-E12	608	FLUID-10N-E10-X-PL	571	FLUID-10N-M1/4G-PL	570
EU-75N-M3/8	598	EUROFLUID-E12-PL	608	FLUID-10N-E12	571	FLUID-10N-M3/8	570
EU-75N-M3/8-316V	598	EUROFLUID-E13	608	FLUID-10N-E12-PL	571	FLUID-10N-M3/8-LX	570
EU-75N-M3/8-316V-PL	598	EUROFLUID-E13-PL	608	FLUID-10N-E12-X	571	FLUID-10N-M3/8-LX-PL	570
EU-75N-M3/8-PL	598	EUROFLUID-E6	608	FLUID-10N-E12-X-PL	571	FLUID-10N-M3/8-PL	570
EU-75N-M3/8-X	598	EUROFLUID-E6-PL	608	FLUID-10N-E6	571	FLUID-10N-M3/8-X	570
EU-75N-M3/8-X-PL	598	EUROFLUID-E8	608	FLUID-10N-E6-PL	571	FLUID-10N-M3/8-X-PL	570
EU-75N-M3/8G	598	EUROFLUID-E8-PL	608	FLUID-10N-E8	571	FLUID-10N-M3/8G	570
EU-75N-M3/8G-PL	598	EUROFLUID-H1/2	608	FLUID-10N-E8-316X	571	FLUID-10N-M3/8G-PL	570
EU-75N-PM08	600	EUROFLUID-H1/2-PL	608	FLUID-10N-E8-316X-PL	571	FLUID-10N-PM08	572
EU-75N-PM08-PL	600	EUROFLUID-H1/4	608	FLUID-10N-E8-LX	571	FLUID-10N-PM08-PL	572
EU-75N-PM08-X	600	EUROFLUID-H1/4-PL	608	FLUID-10N-E8-LX-PL	571	FLUID-10N-PM08-X	572
EU-75N-PM08-X-PL	600	EUROFLUID-H3/8	608	FLUID-10N-E8-PL	571	FLUID-10N-PM08-X-PL	572
EU-75N-PM10	600	EUROFLUID-H3/8-PL	608	FLUID-10N-E8-X	571	FLUID-10N-PM10	572
EU-75N-PM10-PL	600	EUROFLUID-M1/2	608	FLUID-10N-E8-X-PL	571	FLUID-10N-PM10-PL	572
EU-75S-E10	601	EUROFLUID-M1/2-PL	608	FLUID-10N-H1/2	571	FLUID-10S-E10	573
EU-75S-E12	601	EUROFLUID-M1/2G	608	FLUID-10N-H1/2-LX	571	FLUID-10S-E12	573
EU-75S-E13	601	EUROFLUID-M1/2G-PL	608	FLUID-10N-H1/2-LX-PL	571	FLUID-10S-E13	573
EU-75S-E6	601	EUROFLUID-M1/4	608	FLUID-10N-H1/2-PL	571	FLUID-10S-E6	573
EU-75S-E8	601	EUROFLUID-M1/4-PL	608	FLUID-10N-H1/2-X	571	FLUID-10S-E8	573
EU-75S-H1/2	600	EUROFLUID-M1/4G	608	FLUID-10N-H1/2-X-PL	571	FLUID-10S-H1/2	572
EU-75S-H1/4	600	EUROFLUID-M1/4G-PL	608	FLUID-10N-H1/4	571	FLUID-10S-H1/4	572
EU-75S-H3/8	600	EUROFLUID-M3/8	608	FLUID-10N-H1/4-316X	571	FLUID-10S-H3/8	572
EU-75S-M1/2	600	EUROFLUID-M3/8-PL	608	FLUID-10N-H1/4-316X-PL	571	FLUID-10S-M1/2	572
EU-75S-M1/2G	600	EUROFLUID-M3/8G	608	FLUID-10N-H1/4-LX	571	FLUID-10S-M1/2G	572
EU-75S-M1/4	600	EUROFLUID-M3/8G-PL	608	FLUID-10N-H1/4-LX-PL	571	FLUID-10S-M1/4	572
EU-75S-M1/4G	600	EUROFLUID-PM08	609	FLUID-10N-H1/4-PL	571	FLUID-10S-M1/4G	572
EU-75S-M3/8	600	EUROFLUID-PM08-PL	609	FLUID-10N-H1/4-X	571	FLUID-10S-M3/8	572
EU-75S-M3/8G	600	EUROFLUID-PM10	609	FLUID-10N-H1/4-X-PL	571	FLUID-10S-M3/8G	572
EU-75S-PM08	601	EUROFLUID-PM10-PL	609	FLUID-10N-H3/8	571	FLUID-10S-PM08	573
EU-75S-PM10	601	FCK0400	122	FLUID-10N-H3/8-LX	571	FLUID-10S-PM10	573
EU-DO75E10	605	FCK0600	122	FLUID-10N-H3/8-LX-PL	571	FLUID-20N-E10	576
EU-DO75E10-316V	605	FCK0800	122	FLUID-10N-H3/8-PL	571	FLUID-20N-E10-PL	576
EU-DO75E12	605	FCK1000	122	FLUID-10N-H3/8-X	571	FLUID-20N-E12	576
EU-DO75E13	605	FCK1200	122	FLUID-10N-H3/8-X-PL	571	FLUID-20N-E12-PL	576
EU-DO75E6	605	FEPO315	736	FLUID-10N-M1/2	570	FLUID-20N-H1/2	576
EU-DO75E8	605	FEPO315TR	736	FLUID-10N-M1/2-LX	570	FLUID-20N-H1/2-PL	576
EU-DO75E8-316V	605	FEPO315TR-25BX	736	FLUID-10N-M1/2-LX-PL	570	FLUID-20N-H3/8	576



FLUID-20N-H3/8-PL	576	HCF04G01W	88	HCP04-5/32	97	HFRC08G02	77
FLUID-20N-M1/2	576	HCF06G01W	88	HCP04-5/32BK	97	HFRC08G03	77
FLUID-20N-M1/2-PL	576	HCF06G02W	88	HCP04-5/32BL	97	HFRC10G02	77
FLUID-20N-M3/8	576	HCF06G03W	88	HCP04-5/32GR	97	HFRC10G03	77
FLUID-20N-M3/8-PL	576	HCF08G01W	88	HCP04-5/32RD	97	HFRC12G02	77
FLUID-30	580	HCF08G02W	88	HCP05-3/16	97	HFRC12G03	77
FLUID-30-PL	580	HCF08G03W	88	HCP05-3/16BK	97	HFRC12G04	77
FLUID-30M	580	HCF08G04W	88	HCP05-3/16BL	97	HFRCF04G01	77
FLUID-30M-PL	580	HCF08G06W	88	HCP05-3/16GR	97	HFRCF04G02	77
FPDAS-G05G04	787	HCF10G02W	88	HCP05-3/16RD	97	HFRCF06G01	77
FPSAS-G04G04	787	HCF10G03W	88	HCP06-1/4	97	HFRCF06G02	77
FPWLM1-G04G04	787	HCF10G04W	88	HCP06-1/4BK	97	HFRCF08G01	77
FPWLM2-G04G04	787	HCF10G06W	88	HCP06-1/4BL	97	HFRCF08G02	77
FPWLM2-G05G04	787	HCF12G02W	88	HCP06-1/4GR	97	HFRGJ0604	80
GCK04R01	122	HCF12G03W	88	HCP06-1/4RD	97	HFRGJ0806	80
GCK06R01	122	HCF12G04W	88	HCP08-5/16	97	HFRGJ1008	80
GCK06R02	122	HCJ04G01W	89	HCP08-5/16BK	97	HFRGJ1210	80
GCK08R01	122	HCJ04G02W	89	HCP08-5/16BL	97	HFRL04G01	78
GCK08R02	122	HCJ04R01W	89	HCP08-5/16GR	97	HFRL04G02	78
GCK08R03	122	HCJ04R02W	89	HCP08-5/16RD	97	HFRL04M5	78
GCK10R02	122	HCJ06G01W	89	HCP10-3/8	97	HFRL06G01	78
GCK10R03	122	HCJ06G02W	89	HCP10-3/8BK	97	HFRL06G02	78
GCK12R02	122	HCJ06R01W	89	HCP10-3/8BL	97	HFRL06M5	78
GCK12R03	122	HCJ06R02W	89	HCP10-3/8GR	97	HFRL08G01	78
GCK12R04	122	HCJ08G01W	89	HCP10-3/8RD	97	HFRL08G02	78
HBC08-5/16B	766	HCJ08G02W	89	HCP12-1/2	97	HFRL08G03	78
HBC10-3/8B	766	HCJ08G03W	89	HCP12-1/2BK	97	HFRL10G02	78
HBVL10R03B	422	HCJ08R01W	89	HCP12-1/2BL	97	HFRL10G03	78
HBVU-S0606B	422	HCJ08R02W	89	HCP12-1/2GR	97	HFRL12G02	78
HBVU-S0808B	422	HCJ08R03W	89	HCP12-1/2RD	97	HFRL12G03	78
HBVU-S1010B	422	HCJ10G02W	89	HCP15BL	786	HFRL12G04	78
HBVU-S1212B	422	HCJ10G03W	89	HCP22BL	786	HFRMM04	78
HBVU0606B	422	HCJ10G04W	89	HCVU0404W	386	HFRMM06	78
HBVU0808B	422	HCJ10R02W	89	HCVU0606W	386	HFRMM08	78
HBVU1010B	422	HCJ10R03W	89	HCVU0808W	386	HFRMM10	78
HBVU1212B	422	HCJ10R04W	89	HCVU1010W	386	HFRMM12	78
HCAS-F04	116	HCJ12G03W	89	HCVU1212W	386	HFROC04M7	77
HCAS-F06	116	HCJ12G04B	785	HFRA04G01	79	HFROC06M7C	77
HCAS-F08	116	HCJ12G04W	89	HFRA06G01	79	HFRST04G01	79
HCAS-F10	116	HCJ12R03W	89	HFRA06G02	79	HFRT04G01	78
HCAS-F12	116	HCJ12R04W	89	HFRA08G01	79	HFRT06G01	78
HCAS-H04	116	HCJ15G03B	785	HFRA08G02	79	HFRT06G02	78
HCAS-H06	116	HCJ15G04B	785	HFRA10G01	79	HFRT08G01	78
HCAS-H08	116	HCJ22G04B	785	HFRA10G02	79	HFRT08G02	78
HCAS-H10	116	HCJ22G06B	785	HFRA12G02	79	HFRUC04	79
HCAS-H12	116	HCJB0604W	92	HFRC04G01	77	HFRUC06	79
HCAS-P04	116	HCJB0606W	92	HFRC04G02	77	HFRUC08	79
HCAS-P06	116	HCJB0806W	92	HFRC04M5	77	HFRUC10	79
HCAS-P08	116	HCJB1006W	92	HFRC06G01	77	HFRUC12	79
HCAS-P10	116	HCJB1008W	92	HFRC06G02	77	HFRUL04	80
HCAS-P12	116	HCJB1010W	92	HFRC06M5	77	HFRUL06	80
HCB1210W	90	HCJB1210W	92	HFRC08G01	77	HFRUL08	80



HFRUL10	80	HPC06R02W	87	HRPL04R02W	94	HRST06R02W	95
HFRUL12	80	HPC06R03W	87	HRPL06G01W	94	HRST08G01W	95
HFRUT04	80	HPC08G01W	87	HRPL06G02W	94	HRST08G02W	95
HFRUT06	80	HPC08G02W	87	HRPL06R01W	94	HRST08G03W	95
HFRUT08	80	HPC08G03W	87	HRPL06R02W	94	HRST08R01W	95
HFRUT10	80	HPC08G04W	87	HRPL08G01W	94	HRST08R02W	95
HFRUT12	80	HPC08R01W	87	HRPL08G02W	94	HRST08R03W	95
HGJ0405W	89	HPC08R02W	87	HRPL08G03W	94	HRST10G02W	95
HGJ0604W	89	HPC08R03W	87	HRPL08R01W	94	HRST10G03W	95
HGJ0804W	89	HPC10G02W	87	HRPL08R02W	94	HRST10G04W	95
HGJ0806W	89	HPC10G03W	87	HRPL08R03W	94	HRST10R02W	95
HGJ0810W	89	HPC10G04W	87	HRPL10G02W	94	HRST10R03W	95
HGJ1006W	89	HPC10R03W	87	HRPL10G03W	94	HRST10R04W	95
HGJ1008W	89	HPC10R04W	87	HRPL10G04W	94	HRST12G03W	95
HGJ1208W	89	HPC12G03W	87	HRPL10R02W	94	HRST12G04W	95
HGJ1210W	89	HPC12G04B	784	HRPL10R03W	94	HRST12R03W	95
HGJ1512B	786	HPC12G04W	87	HRPL10R04W	94	HRST12R04W	95
HGJ2215B	786	HPC12R03W	87	HRPL12G03W	94	HRWT04G01W	96
HLJ0404W	90	HPC12R04W	87	HRPL12G04W	94	HRWT04G02W	96
HLJ0606W	90	HPC15G04B	784	HRPL12R03W	94	HRWT04R01W	96
HLJ0608W	90	HPC15G06B	784	HRPL12R04W	94	HRWT04R02W	96
HLJ0808W	90	HPC22G06B	784	HRPT04G01W	95	HRWT06G01W	96
HLJ1006W	90	HPF06W	93	HRPT04G02W	95	HRWT06G02W	96
HLJ1008W	90	HPF08W	93	HRPT04R01W	94	HRWT06R01W	96
HLJ1010W	90	HPF10W	93	HRPT04R02W	94	HRWT06R02W	96
HLJ1212B	785	HPF12B	785	HRPT06G01W	95	HRWT08G01W	96
HLJ1212W	90	HPF12W	93	HRPT06G02W	95	HRWT08G02W	96
HLJ1515B	785	HPF15B	785	HRPT06R01W	94	HRWT08G03W	96
HLJ2222B	785	HPF22B	785	HRPT06R02W	94	HRWT08R01W	96
HLJB1006W	92	HPL04R01W	88	HRPT08G01W	95	HRWT08R02W	96
HLJB1008W	92	HPL04R02W	88	HRPT08G02W	95	HRWT08R03W	96
HMCP06-1/4	422	HPL06R01W	88	HRPT08G03W	95	HRWT10G02W	96
HMCP06-1/4B	422	HPL06R02W	88	HRPT08R01W	94	HRWT10G03W	96
HMCP06-1/4G	422	HPL06R03W	88	HRPT08R02W	94	HRWT10G04W	96
HMCP06-1/4W	422	HPL08R02W	88	HRPT08R03W	94	HRWT10R02W	96
HMCP10-3/8	422	HPL08R03W	88	HRPT10G02W	95	HRWT10R03W	96
HMCP10-3/8B	422	HPL10R02W	88	HRPT10G03W	95	HRWT10R04W	96
HMCP10-3/8G	422	HPL10R03W	88	HRPT10G04W	95	HRWT12G03W	96
HMCP10-3/8W	422	HPL12R02W	88	HRPT10R02W	94	HRWT12G04W	96
HMM0404W	88	HPL12R03W	88	HRPT10R03W	94	HRWT12R03W	96
HMM0604W	88	HPL12R04W	88	HRPT10R04W	94	HRWT12R04W	96
HMM0606W	88	HPP04W	93	HRPT12G03W	95	HSJ0404W	90
HMM0806W	88	HPP06W	93	HRPT12G04W	95	HSJ0606W	90
HMM0808W	88	HPP08W	93	HRPT12R03W	94	HSJ0808W	90
HMM1010W	88	HPP10W	93	HRPT12R04W	94	HSJ1010W	90
HMM1212W	88	HPP12B	786	HRST04G01W	95	HSJ1212W	90
HPC04G01W	87	HPP12W	93	HRST04G02W	95	HSLB0606B	344
HPC04G02W	87	HPP15B	786	HRST04R01W	95	HSLB1010B	344
HPC04R01W	87	HPP22B	786	HRST04R02W	95	HSLU0606B	344
HPC06G01W	87	HRPL04G01W	94	HRST06G01W	95	HSLU1010B	344
HPC06G02W	87	HRPL04G02W	94	HRST06G02W	95	HSTB0606B	344
HPC06R01W	87	HRPL04R01W	94	HRST06R01W	95	HSTB1010B	344



HSTU0606B	344	HUY0808W	92	L-150	478	MABR40R0135	443
HSTU1010B	344	HUY1008W	92	L-225	478	MABR40R0136	443
HTBC0606B	766	HUY1010W	92	LFSF-B02	346	MABR40R0137	443
HTBC0806B	766	HUY1212W	92	LM-G	765	MABR40R0138	443
HUC0404W	91	HZA0606W	93	LM-P	765	MABR40R0139	443
HUC0604W	91	HZA0808W	93	LOC5331	463	MABR40R0140	443
HUC0605W	91	IS43S	462	LOX1810	457	MABR50R0234	443
HUC0606W	91	KC9-0812	248	LOX5314	459	MABR50R0235	443
HUC0804W	91	KC9-1016	248	LOX5503	460	MABR50R0236	443
HUC0806W	91	KC9-1220	248	LOX5811	458	MABR50R0238	443
HUC0808W	91	KC9-1222	248	LOX5920	461	MABR50R0239	443
HUC1006W	91	KC9-1625	248	MABP40R0120	444	MABR50R0240	443
HUC1008W	91	KC9-1627	248	MABP40R0132	444	MABR63R0220	443
HUC1010W	91	KC9-2032	248	MABP40R0133	444	MABR63R0232	443
HUC1208W	91	KC9-2535	248	MABP40R0134	444	MABR63R0233	443
HUC1210W	91	KC9-2540	248	MABP40R0135	444	MABR63R0234	443
HUC1212B	784	KC9-3045	248	MABP40R0136	444	MABR63R0235	443
HUC1212W	91	KC9-3250	248	MABP40R0137	444	MABR63R0236	443
HUC1515B	784	KC9-4060	248	MABP40R0138	444	MABR63R0237	443
HUC2222B	784	KC9-5070	248	MABP40R0139	444	MABR63R0238	443
HUFFG02-G06G	97	KC9-6080	248	MABP40R0140	444	MABR63R0239	443
HUFFG03-G06G	97	KC9-7090	248	MABP40R0143	444	MABR63R0240	443
HUL0404W	91	KCW9-0812	248	MABP50R0120	444	MEVS04W	358
HUL0606W	91	KCW9-1016	248	MABP50R0132	444	MEVS06W	358
HUL0804W	91	KCW9-1220	248	MABP50R0133	444	MEVU04W	358
HUL0806W	91	KCW9-1222	248	MABP50R0134	444	MEVU06W	358
HUL0808W	91	KCW9-1625	248	MABP50R0135	444	MICRO-H18-L	584
HUL1006W	91	KCW9-1627	248	MABP50R0136	444	MICRO-HM5-L	584
HUL1008W	91	KCW9-2032	248	MABP50R0138	444	MINI-E6-316V	586
HUL1010W	91	KCW9-2535	248	MABP50R0139	444	MINI-E6-L	586
HUL1206W	91	KCW9-2540	248	MABP50R0140	444	MINI-E8-316V	586
HUL1208W	91	KCW9-3045	248	MABP50R0234	444	MINI-E8-L	586
HUL1210W	91	KCW9-3250	248	MABP50R0235	444	MINI-H-316V	586
HUL1212B	784	KCW9-4060	248	MABP50R0236	444	MINI-H-L	586
HUL1212W	91	KCW9-5070	248	MABP50R0238	444	MINI-H1-316V	586
HUL1515B	784	KCW9-6080	248	MABP50R0239	444	MINI-H1-L	586
HUL2222B	784	KCW9-7090	248	MABP50R0240	444	MINI-M-316V	586
HUT0404W	92	KCX9-0812	249	MABP63R0220	444	MINI-M-L	586
HUT0606W	92	KCX9-1016	249	MABP63R0232	444	MINI-M1-316V	586
HUT0808W	92	KCX9-1220	249	MABP63R0233	444	MINI-M1-L	586
HUT100608W	92	KCX9-1222	249	MABP63R0234	444	MINI-M3-316V	586
HUT100610W	92	KCX9-1625	249	MABP63R0235	444	MINI-MM6-L	587
HUT1010W	92	KCX9-1627	249	MABP63R0236	444	MINI-MM8-L	587
HUT121012W	92	KCX9-2032	249	MABP63R0237	444	MINI-RR6-L	587
HUT1212B	785	KCX9-2535	249	MABP63R0238	444	MINI-RR6R-L	587
HUT1212W	92	KCX9-2540	249	MABP63R0239	444	MINI-RR8-L	587
HUT1515B	785	KCX9-3045	249	MABP63R0240	444	MINI-RR8R-L	587
HUT221222B	785	KCX9-3250	249	MABP63R0245	444	MINIDO-E6-316V	593
HUT221522B	785	KCX9-4060	249	MABR40R0120	443	MINIDO-E6-L	593
HUT2222B	785	KCX9-5070	249	MABR40R0132	443	MINIDO-E8-316V	593
HUY0404W	92	KCX9-6080	249	MABR40R0133	443	MINIDO-E8-L	593
HUY0606W	92	KCX9-7090	249	MABR40R0134	443	MINIDO-H-316V	592



MINIDO-HL	592	MPC12R01W	47	MPT04G02W	49	MPY04W	51
MINIDO-H1-316V	592	MPC12R02W	47	MPT04G03W	49	MPY06W	51
MINIDO-H1-L	592	MPC12R03W	47	MPT04G04W	49	MPY08W	51
MINIDO-M-316V	592	MPC12R04W	47	MPT04M5W	49	MPY10W	51
MINIDO-M-L	592	MPG0604W	50	MPT04R01W	49	MPY12W	51
MINIDO-M1-316V	592	MPG0804W	50	MPT04R02W	49	MSC04G01	331
MINIDO-M1-L	592	MPG0806W	50	MPT04R03W	49	MSC04G02	331
MINIDO-M3-316V	592	MPG1006W	50	MPT06G01W	49	MSC04M5	331
MINIDO-MM6-316V	593	MPG1008W	50	MPT06G02W	49	MSC04R01	331
MINIDO-MM6-L	593	MPG1208W	50	MPT06G03W	49	MSC04R02	331
MINIDO-MM8-316V	593	MPG1210W	50	MPT06G04W	49	MSC06G01	331
MINIDO-MM8-L	593	MPL04G01W	48	MPT06M5W	49	MSC06G02	331
MINIDO-RR6-L	593	MPL04G02W	48	MPT06R01W	49	MSC06G03	331
MINIDO-RR6R-L	594	MPL04G03W	48	MPT06R02W	49	MSC06G04	331
MINIDO-RR8-L	593	MPL04G04W	48	MPT06R03W	49	MSC06M5	331
MINIDO-RR8R-L	594	MPL04M5W	48	MPT08G01W	49	MSC06R01	331
MPC04G01W	47	MPL04M6W	48	MPT08G02W	49	MSC06R02	331
MPC04G02W	47	MPL04R01W	48	MPT08G03W	49	MSC06R03	331
MPC04G03W	47	MPL04R02W	48	MPT08G04W	49	MSC06R04	331
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MPC04M6W	47	MPL06G01W	48	MPT08R02W	49	MSC08G02	331
MPC04R01W	47	MPL06G02W	48	MPT08R03W	49	MSC08G03	331
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MPC08R02W	47	MPL10G02W	48	MPUC06W	50	MSC12R02	331
MPC08R03W	47	MPL10G03W	48	MPUC08W	50	MSC12R03	331
MPC08R04W	47	MPL10G04W	48	MPUC10W	50	MSC12R04	331
MPC10G01W	47	MPL10R02W	48	MPUC12W	50	MSF04	334
MPC10G02W	47	MPL10R03W	48	MPUL04W	50	MSF06	334
MPC10G03W	47	MPL10R04W	48	MPUL06W	50	MSF08	334
MPC10G04W	47	MPL12G01W	48	MPUL08W	50	MSF10	334
MPC10R01W	47	MPL12G02W	48	MPUL10W	50	MSF12	334
MPC10R02W	47	MPL12G03W	48	MPUL12W	50	MXBF63G0220	448
MPC10R03W	47	MPL12G04W	48	MPUT04W	51	MXBF63G0232	448
MPC10R04W	47	MPL12R02W	48	MPUT06W	51	MXBF63G0233	448
MPC12G02W	47	MPL12R03W	48	MPUT08W	51	MXBF63G0234	448
MPC12G03W	47	MPL12R04W	48	MPUT10W	51	MXBF63G0235	448
MPC12G04W	47	MPT04G01W	49	MPUT12W	51	MXBF63G0236	448



MXBF63G0237	448	MXBR40G0136	446	MXBS63G0245	448	NE-10H	574
MXBF63G0239	448	MXBR40G0137	446	MXBS63G0246	448	NE-10H-1/2	574
MXBF63G0240	448	MXBR40G0139	446	MXBS63G0247	448	NE-10H-3/8	574
MXBF63G0241	448	MXBR40G0140	446	MXBS63G0248	448	NE-10H-316X	574
MXBF63G0242	448	MXBR40G0142	446	MXBS63G0250	448	NE-10H-X	574
MXBF63G0243	448	MXBR40G0143	446	MXXP63G0220	450	NE-10M	573
MXBF63G0244	448	MXBR40G0144	446	MXXP63G0232	450	NE-10M-1/2	573
MXBF63G0245	448	MXBR40G0145	446	MXXP63G0233	450	NE-10M-1/2-X	573
MXBF63G0246	448	MXBR40G0147	446	MXXP63G0234	450	NE-10M-3/8	573
MXBF63G0247	448	MXBR50G0234	446	MXXP63G0235	450	NE-10M-3/8-X	573
MXBF63G0248	448	MXBR50G0235	446	MXXP63G0236	450	NE-10M-316X	573
MXBF63G0250	448	MXBR50G0236	446	MXXP63G0237	450	NE-10M-X	573
MXBP40G0135	447	MXBR50G0237	446	MXXP63G0239	450	NE-10PM-08	574
MXBP40G0136	447	MXBR50G0239	446	MXXP63G0240	450	NE-10PM-08-X	574
MXBP40G0137	447	MXBR50G0240	446	MXXP63G0241	450	NE-10PM-10	574
MXBP40G0139	447	MXBR50G0241	446	MXXP63G0242	450	NE-20E	577
MXBP40G0140	447	MXBR50G0242	446	MXXP63G0243	450	NE-20E-13	577
MXBP40G0142	447	MXBR50G0243	446	MXXP63G0244	450	NE-20H	577
MXBP40G0143	447	MXBR50G0244	446	MXXP63G0245	450	NE-20H-1/2	577
MXBP40G0144	447	MXBR50G0245	446	MXXR100G0220	450	NE-20M	577
MXBP40G0145	447	MXBR50G0247	446	MXXR100G0432	450	NE-20M-1/2	577
MXBP40G0147	447	MXBR63G0220	446	MXXR100G0433	450	NE-20M-1/4	577
MXBP40G0148	447	MXBR63G0232	446	MXXR100G0434	450	NE-30E	581
MXBP50G0234	447	MXBR63G0233	446	MXXR100G0435	450	NE-30H	581
MXBP50G0235	447	MXBR63G0234	446	MXXR100G0436	450	NE-30H-3/8	581
MXBP50G0236	447	MXBR63G0235	446	MXXR100G0437	450	NE-30M	580
MXBP50G0237	447	MXBR63G0236	446	MXXR100G0439	450	NSCF-R01	336
MXBP50G0239	447	MXBR63G0237	446	MXXR100G0440	450	NSCF-R02	336
MXBP50G0240	447	MXBR63G0239	446	MXXR100G0441	450	NSCF-R03	336
MXBP50G0241	447	MXBR63G0240	446	MXXR100G0442	450	NSCF-R04	336
MXBP50G0242	447	MXBR63G0241	446	MXXR100G0443	450	OTRA04G01	70
MXBP50G0243	447	MXBR63G0242	446	MXXR63G0220	450	OTRA04G02	70
MXBP50G0244	447	MXBR63G0243	446	MXXR63G0232	450	OTRA04M5	70
MXBP50G0245	447	MXBR63G0244	446	MXXR63G0233	450	OTRA04M7	70
MXBP63G0220	447	MXBR63G0245	446	MXXR63G0234	450	OTRA06G01	70
MXBP63G0232	447	MXBR63G0246	446	MXXR63G0235	450	OTRA06G02	70
MXBP63G0233	447	MXBR63G0247	446	MXXR63G0236	450	OTRA06M5	70
MXBP63G0234	447	MXBR63G0248	446	MXXR63G0237	450	OTRA06M7	70
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MXBP63G0236	447	MXBS63G0220	448	MXXR63G0240	450	OTRA08G02	70
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MXBP63G0239	447	MXBS63G0233	448	MXXR63G0242	450	OTRA10G01	70
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MXBP63G0242	447	MXBS63G0236	448	MXXR63G0245	450	OTRA12G02	70
MXBP63G0243	447	MXBS63G0237	448	NE-10E-10	574	OTRA12G03	70
MXBP63G0244	447	MXBS63G0239	448	NE-10E-10-316X	574	OTRA12G04	70
MXBP63G0245	447	MXBS63G0240	448	NE-10E-10-X	574	OTRC04G01	63
MXBP63G0246	447	MXBS63G0241	448	NE-10E-12	574	OTRC04G02	63
MXBP63G0247	447	MXBS63G0242	448	NE-10E-6	574	OTRC04M5	63
MXBP63G0248	447	MXBS63G0243	448	NE-10E-8	574	OTRC04R01	63
MXBR40G0135	446	MXBS63G0244	448	NE-10E-X	574	OTRC04R02	63



OTRC06G01	63	OTRGJ1210	72	OTRLF08G02	67	OTRT08G03	68
OTRC06G02	63	OTRL04G01	66	OTRME04R01	65	OTRT08R01	67
OTRC06M5	63	OTRL04G02	66	OTRME06R01	65	OTRT08R02	67
OTRC06R01	63	OTRL04M5	66	OTRME06R02	65	OTRT08R03	67
OTRC06R02	63	OTRL04R01	66	OTRME08R01	65	OTRT1-2N02	68
OTRC08G01	63	OTRL04R02	66	OTRME08R02	65	OTRT1-2N03	68
OTRC08G02	63	OTRL06G01	66	OTRMM04-532	65	OTRT1-4G01	68
OTRC08G03	63	OTRL06G02	66	OTRMM0600	65	OTRT1-4G02	68
OTRC08R01	63	OTRL06M5	66	OTRMM08-516	65	OTRT1-4N01	68
OTRC08R02	63	OTRL06R01	66	OTRMM1-4	65	OTRT1-4N02	68
OTRC08R03	63	OTRL06R02	66	OTRMM1000	65	OTRT10G02	68
OTRC1-2N02	64	OTRL08G01	66	OTRMM1200	65	OTRT10G03	68
OTRC1-2N03	64	OTRL08G02	66	OTRMM38	65	OTRT10G04	68
OTRC1-2N04	64	OTRL08G03	66	OTROC04M5	64	OTRT10R02	67
OTRC1-4G01	63	OTRL08R01	66	OTROC04M6	64	OTRT10R03	67
OTRC1-4M5	63	OTRL08R02	66	OTROC04M7	64	OTRT10R04	67
OTRC1-4N01	64	OTRL08R03	66	OTROC06M5	64	OTRT12G02	68
OTRC1-4N02	64	OTRL1-2N02	67	OTROC06M7C	64	OTRT12G03	68
OTRC10G02	63	OTRL1-2N03	67	OTROC1-4UF1032	64	OTRT12G04	68
OTRC10G03	63	OTRL1-2N04	67	OTROC532UF1032	64	OTRT12R02	67
OTRC10G04	63	OTRL1-4G01	66	OTRST04G01	69	OTRT12R03	67
OTRC10R02	63	OTRL1-4G02	66	OTRST04G02	69	OTRT12R04	67
OTRC10R03	63	OTRL1-4N01	67	OTRST04R01	69	OTRT38G02	68
OTRC10R04	63	OTRL1-4N02	67	OTRST04R02	69	OTRT38G03	68
OTRC12G02	63	OTRL10G02	66	OTRST06G01	69	OTRT38N02	68
OTRC12G03	63	OTRL10G03	66	OTRST06G02	69	OTRT38N03	68
OTRC12G04	63	OTRL10G04	66	OTRST06R01	69	OTRT516N01	68
OTRC12R02	63	OTRL10R02	66	OTRST06R02	69	OTRT516N02	68
OTRC12R03	63	OTRL10R03	66	OTRST08G01	69	OTRT532N01	68
OTRC12R04	63	OTRL10R04	66	OTRST08G02	69	OTRT532N02	68
OTRC38G03	63	OTRL12G02	66	OTRST08R01	69	OTRT532UF1032	68
OTRC38N01	64	OTRL12G03	66	OTRST08R02	69	OTRUC04-532	70
OTRC38N02	64	OTRL12G04	66	OTRST10G02	69	OTRUC0600	70
OTRC38N03	64	OTRL12R02	66	OTRST10G03	69	OTRUC08-516	70
OTRC38N04	64	OTRL12R03	66	OTRST10R02	69	OTRUC1-2	70
OTRC516N01	64	OTRL12R04	66	OTRST10R03	69	OTRUC1-4	70
OTRC516N02	64	OTRL38G02	66	OTRST12G03	69	OTRUC1000	70
OTRC516N03	64	OTRL38G03	66	OTRST12G04	69	OTRUC1200	70
OTRC532N01	64	OTRL38N01	67	OTRST12R03	69	OTRUC38	70
OTRC532N02	64	OTRL38N02	67	OTRST12R04	69	OTRUL04-532	71
OTRCF04G01	65	OTRL38N03	67	OTRT04G01	68	OTRUL0600	71
OTRCF04G02	65	OTRL38N04	67	OTRT04G02	68	OTRUL08-516	71
OTRCF06G01	65	OTRL516N01	67	OTRT04M5	68	OTRUL1-2	71
OTRCF06G02	65	OTRL516N02	67	OTRT04R01	67	OTRUL1-4	71
OTRCF08G01	65	OTRL516N03	67	OTRT04R02	67	OTRUL1000	71
OTRCF08G02	65	OTRL532N01	67	OTRT06G01	68	OTRUL1200	71
OTRGJ0604	72	OTRL532N02	67	OTRT06G02	68	OTRUL38	71
OTRGJ0804	72	OTRL532UF1032	67	OTRT06M5	68	OTRUT04-532	71
OTRGJ0806	72	OTRLF04G01	67	OTRT06R01	67	OTRUT0600	71
OTRGJ1006	72	OTRLF06G01	67	OTRT06R02	67	OTRUT08-516	71
OTRGJ1008	72	OTRLF06G02	67	OTRT08G01	68	OTRUT1-2	71
OTRGJ1208	72	OTRLF08G01	67	OTRT08G02	68	OTRUT1-4	71





OTRUT1000	71	OTSC12G02IN	338	P-ST-6G	314	PA12-0806VD-Z	722
OTRUT1200	71	OTSC12G03D	338	P-ST-8G	314	PA12-1/2-Z	723
OTRUT38	71	OTSC12G03DIN	339	PA12-0402-Z	722	PA12-1/2BL-Z	724
OTRY04	72	OTSCG01DF	339	PA12-0402BL-25BX	723	PA12-1/2GL-Z	724
OTRY06	72	OTSCG01DFB	340	PA12-0402BL-Z	722	PA12-1/2NE-Z	724
OTRY08	72	OTSCG01DFIN	340	PA12-0402NE-25BX	723	PA12-1/2RO-Z	724
OTRY10	72	OTSCG02DF	339	PA12-0402NE-Z	722	PA12-1/4-Z	723
OTRY12	72	OTSCG02DFB	340	PA12-0402NU-25BX	723	PA12-1/4BL-Z	724
OTSC04G01	338	OTSCG02DFIN	340	PA12-0402NU-Z	722	PA12-1/4GL-Z	724
OTSC04G01D	338	OTSCG03DF	339	PA12-0402RO-25BX	723	PA12-1/4NE-Z	724
OTSC04G01DB	339	OTSCG03DFB	340	PA12-0402RO-Z	722	PA12-1/4RO-Z	724
OTSC04G01DIN	339	OTSCG03DFIN	340	PA12-0402VD-25BX	723	PA12-1007-Z	722
OTSC04G01IN	338	OTSCG04DF	339	PA12-0402VD-Z	722	PA12-1007BL-25BX	723
OTSC04M5D	338	OTSCG04DFB	340	PA12-0425-Z	722	PA12-1007BL-Z	722
OTSC04M5DB	339	OTSCG04DFIN	340	PA12-0425BL-25BX	723	PA12-1007NE-25BX	723
OTSC04M5DIN	339	OTSCM5DF	339	PA12-0425BL-Z	722	PA12-1007NE-Z	722
OTSC06G01	338	OTSCM5DFB	340	PA12-0425NE-25BX	723	PA12-1007NU-25BX	723
OTSC06G01D	338	OTSCM5DFIN	340	PA12-0425NE-Z	722	PA12-1007NU-Z	722
OTSC06G01DB	339	P-MFAA-12RN	315	PA12-0425NU-25BX	723	PA12-1008-Z	722
OTSC06G01DIN	339	P-MFAA-16RN	315	PA12-0425NU-Z	722	PA12-1008BL-25BX	723
OTSC06G01IN	338	P-MFAA-2RN	315	PA12-0427-Z	722	PA12-1008BL-Z	722
OTSC06G02	338	P-MFAA-4RN	315	PA12-0427BL-25BX	723	PA12-1008NE-25BX	723
OTSC06G02D	338	P-MFAA-6RN	315	PA12-0427BL-Z	722	PA12-1008NE-Z	722
OTSC06G02DB	339	P-MFAA-8RN	315	PA12-0427NE-25BX	723	PA12-1008NU-25BX	723
OTSC06G02DIN	339	P-SBT-12GR	314	PA12-0427NE-Z	722	PA12-1008NU-Z	722
OTSC06G02IN	338	P-SBT-16GR	314	PA12-0427NU-25BX	723	PA12-1008RO-25BX	723
OTSC06M5D	338	P-SBT-2GR	314	PA12-0427NU-Z	722	PA12-1008RO-Z	722
OTSC06M5DB	339	P-SBT-4GR	314	PA12-0427RO-25BX	723	PA12-1008VD-25BX	723
OTSC06M5DIN	339	P-SBT-6GR	314	PA12-0427RO-Z	722	PA12-1008VD-Z	722
OTSC08G01	338	P-SBT-8GR	314	PA12-0427VD-25BX	723	PA12-1208-Z	722
OTSC08G01D	338	P-SHN-12NR	315	PA12-0427VD-Z	722	PA12-1208BL-Z	722
OTSC08G01DB	339	P-SHN-16NR	315	PA12-0604-Z	722	PA12-1208NE-Z	722
OTSC08G01DIN	339	P-SHN-2NR	315	PA12-0604BL-25BX	723	PA12-1208NU-Z	722
OTSC08G01IN	338	P-SHN-4NR	315	PA12-0604BL-Z	722	PA12-1209-Z	722
OTSC08G02	338	P-SHN-6NR	315	PA12-0604NE-25BX	723	PA12-1209BL-Z	722
OTSC08G02D	338	P-SHN-8NR	315	PA12-0604NE-Z	722	PA12-1209NE-Z	722
OTSC08G02DB	339	P-SL-12G	314	PA12-0604NU-25BX	723	PA12-1209NU-Z	722
OTSC08G02DIN	339	P-SL-16G	314	PA12-0604NU-Z	722	PA12-1210-Z	722
OTSC08G02IN	338	P-SL-2G	314	PA12-0604RO-25BX	723	PA12-1210BL-Z	722
OTSC08G03D	338	P-SL-4G	314	PA12-0604RO-Z	722	PA12-1210NE-Z	722
OTSC08G03DB	339	P-SL-6G	314	PA12-0604VD-25BX	723	PA12-1210NU-Z	722
OTSC08G03DIN	339	P-SL-8G	314	PA12-0604VD-Z	722	PA12-1210RO-Z	722
OTSC10G02	338	P-SSL-12GR	314	PA12-0806-Z	722	PA12-1210VD-Z	722
OTSC10G02D	338	P-SSL-16GR	314	PA12-0806BL-25BX	723	PA12-1412-Z	722
OTSC10G02DB	339	P-SSL-2GR	314	PA12-0806BL-Z	722	PA12-1412BL-Z	722
OTSC10G02DIN	339	P-SSL-4GR	314	PA12-0806NE-25BX	723	PA12-1412NE-Z	722
OTSC10G02IN	338	P-SSL-6GR	314	PA12-0806NE-Z	722	PA12-1412NU-Z	722
OTSC10G03D	338	P-SSL-8GR	314	PA12-0806NU-25BX	723	PA12-15125-Z	722
OTSC10G03DIN	339	P-ST-12G	314	PA12-0806NU-Z	722	PA12-15125BL-Z	722
OTSC12G02	338	P-ST-16G	314	PA12-0806RO-25BX	723	PA12-15125NE-Z	722
OTSC12G02D	338	P-ST-2G	314	PA12-0806RO-Z	722	PA12-15125NU-Z	722
OTSC12G02DIN	339	P-ST-4G	314	PA12-0806VD-25BX	723	PA12-1614-Z	722



PA12-1614BL-Z	722	PE0425GL-FF	728	PE1209VD-FF	728	PLL-C06R01	37
PA12-1614NE-Z	722	PE0425NE-FF	728	PE3/16...-FF	728	PMM-C03	36
PA12-1614NU-Z	722	PE0425NU-FF	728	PE3/16BL-FF	728	PMM-C04	36
PA12-3/16-Z	723	PE0425RO-FF	728	PE3/16BO-FF	728	PMM-C06	36
PA12-3/16BL-Z	724	PE0425VD-FF	728	PE3/16GL-FF	728	POC-C03M3	36
PA12-3/16GL-Z	724	PE0604...-FF	727	PE3/16NE-FF	728	POC-C03M5	36
PA12-3/16NE-Z	724	PE0604BL-FF	728	PE3/16NU-FF	728	POC-C03M6	36
PA12-3/16RO-Z	724	PE0604BO-FF	728	PE3/16RO-FF	728	POC-C04M3	36
PA12-3/8-Z	723	PE0604GL-FF	728	PE3/16VD-FF	728	POC-C04M5	36
PA12-3/8BL-Z	724	PE0604NE-FF	728	PE3/8...-FF	728	POC-C04M6	36
PA12-3/8GL-Z	724	PE0604NU-FF	728	PE3/8BL-FF	728	POC-C04R01	35
PA12-3/8NE-Z	724	PE0604RO-FF	728	PE3/8BO-FF	728	POC-C06M5	36
PA12-3/8RO-Z	724	PE0604VD-FF	728	PE3/8GL-FF	728	POC-C06M6	36
PA12-5/16-Z	723	PE0806...-FF	727	PE3/8NE-FF	728	POC-C06R01	35
PA12-5/16BL-Z	724	PE0806BL-FF	728	PE3/8NU-FF	728	PSF1010	478
PA12-5/16GL-Z	724	PE0806BO-FF	728	PE3/8RO-FF	728	PSF1010-4	478
PA12-5/16NE-Z	724	PE0806GL-FF	728	PE3/8VD-FF	728	PST-C03M3	39
PA12-5/16RO-Z	724	PE0806NE-FF	728	PE5/16...-FF	728	PST-C03M5	39
PA12-5/32-Z	723	PE0806NU-FF	728	PE5/16BL-FF	728	PST-C03M6	39
PA12-5/32BL-Z	724	PE0806RO-FF	728	PE5/16BO-FF	728	PST-C04M3	39
PA12-5/32GL-Z	724	PE0806VD-FF	728	PE5/16GL-FF	728	PST-C04M5	39
PA12-5/32NE-Z	724	PE1/2...-FF	728	PE5/16NE-FF	728	PST-C04M6	39
PA12-5/32RO-Z	724	PE1/2BL-FF	728	PE5/16NU-FF	728	PST-C04R01	39
PC-C03M3	35	PE1/2BO-FF	728	PE5/16RO-FF	728	PST-C06M5	39
PC-C03M5	35	PE1/2GL-FF	728	PE5/16VD-FF	728	PST-C06M6	39
PC-C03M6	35	PE1/2NE-FF	728	PG-C0403	40	PST-C06R01	39
PC-C04G01	35	PE1/2NU-FF	728	PG-C0603	40	PT-C03M3	38
PC-C04M3	35	PE1/2RO-FF	728	PG-C0604	40	PT-C03M5	38
PC-C04M5	35	PE1/2VD-FF	728	PGJ-C0403	41	PT-C03M6	38
PC-C04M6	35	PE1/4...-FF	728	PGJ-C0603	41	PT-C04M3	38
PC-C04R01	35	PE1/4BL-FF	728	PGJ-C0604	41	PT-C04M5	38
PC-C06G01	35	PE1/4BO-FF	728	PL-C03M3	37	PT-C04M6	38
PC-C06M5	35	PE1/4GL-FF	728	PL-C03M5	37	PT-C04R01	38
PC-C06M6	35	PE1/4NE-FF	728	PL-C03M6	37	PT-C06M5	38
PC-C06R01	35	PE1/4NU-FF	728	PL-C04G01	37	PT-C06M6	38
PCF-C03M3	36	PE1/4RO-FF	728	PL-C04M3	37	PT-C06R01	38
PCF-C03M5	36	PE1/4VD-FF	728	PL-C04M5	37	PTFE-C0402	732
PCF-C03M6	36	PE1007...-FF	727	PL-C04M6	37	PTFE-C0402NU100	732
PCF-C04M3	36	PE1007BL-FF	728	PL-C04R01	37	PTFE-C0402NU100-25BX	732
PCF-C04M5	36	PE1007BO-FF	728	PLC06G01	37	PTFE-C0425	732
PCF-C04M6	36	PE1007GL-FF	728	PL-C06M5	37	PTFE-C0425BL100	732
PCF-C06M5	36	PE1007NE-FF	728	PL-C06M6	37	PTFE-C0425BL100-25BX	732
PCF-C06M6	36	PE1007NU-FF	728	PL-C06R01	37	PTFE-C0425NU100	732
PCP04N	531	PE1007RO-FF	728	PLL-C03M3	38	PTFE-C0425NU100-25BX	732
PCP06N	531	PE1007VD-FF	728	PLL-C03M5	38	PTFE-C0425RO100	732
PCP08N	531	PE1209...-FF	727	PLL-C03M6	38	PTFE-C0425RO100-25BX	732
PCP10N	531	PE1209BL-FF	728	PLL-C04M3	38	PTFE-C0604	732
PCP12N	531	PE1209BO-FF	728	PLL-C04M5	38	PTFE-C0604BL100	732
PCP16N	531	PE1209GL-FF	728	PLL-C04M6	38	PTFE-C0604BL100-25BX	732
PE0425...-FF	727	PE1209GL-FF	728	PLL-C04R01	37	PTFE-C0604NU100	732
PE0425BL-FF	728	PE1209NE-FF	728	PLL-C06M5	38	PTFE-C0604NU100-25BX	732
PE0425BO-FF	728	PE1209NU-FF	728	PLL-C06M6	38	PTFE-C0604RO100	732
		PE1209RO-FF	728				



PTFE-C0604RO100-25BX	732	PUES0302AZ-25BX	692	PUES0855SL-25BX	692	PUES1209VD-25BX	692
PTFE-C0806	732	PUES0425	691	PUES0855TR	692	PUES1410	691
PTFE-C0806BL100	732	PUES0425AZ	692	PUES0855TR-25BX	692	PUES1410AZ	692
PTFE-C0806BL100-25BX	732	PUES0425AZ-25BX	692	PUES0855VD	692	PUES1410TR	692
PTFE-C0806NU100	732	PUES0425AZTR	692	PUES0855VD-25BX	692	PUES1612	691
PTFE-C0806NU100-25BX	732	PUES0425AZTR-25BX	692	PUES1007	691	PUES1612AZ	692
PTFE-C0806RO100	732	PUES0425GL	692	PUES1007AZ	692	PUET0425	701
PTFE-C0806RO100-25BX	732	PUES0425GL-25BX	692	PUES1007AZ-25BX	692	PUET0425AZTR	701
PTFE-C1008	732	PUES0425NE	692	PUES1007AZTR	692	PUET0425NETR	701
PTFE-C1008BL100	732	PUES0425NE-25BX	692	PUES1007AZTR-25BX	692	PUET0425ROTR	701
PTFE-C1008BL100-25BX	732	PUES0425RO	692	PUES1007GL	692	PUET0425TR	701
PTFE-C1008NU100	732	PUES0425RO-25BX	692	PUES1007GL-25BX	692	PUET0639	701
PTFE-C1008NU100-25BX	732	PUES0425SL	692	PUES1007NE	692	PUET0639AZTR	701
PTFE-C1008RO100	732	PUES0425SL-25BX	692	PUES1007NE-25BX	692	PUET0639NETR	701
PTFE-C1008RO100-25BX	732	PUES0425TR	692	PUES1007RO	692	PUET0639ROTR	701
PTFE-C1210	732	PUES0425TR-25BX	692	PUES1007RO-25BX	692	PUET0639TR	701
PTFE-C1210BL100	732	PUES0425VD	692	PUES1007SL	692	PUET0855	701
PTFE-C1210NU100	732	PUES0425VD-25BX	692	PUES1007SL-25BX	692	PUET0855AZTR	701
PTFE-C1210RO100	732	PUES0604	691	PUES1007TR	692	PUET0855NETR	701
PTFE-C1412	732	PUES0604AZ	692	PUES1007TR-25BX	692	PUET0855ROTR	701
PTFE-C1412BL50	732	PUES0604AZ-25BX	692	PUES1007VD	692	PUET0855TR	701
PTFE-C1412NU50	732	PUES0604AZTR	692	PUES1007VD-25BX	692	PUET1007	701
PTFE-C1412RO50	732	PUES0604AZTR-25BX	692	PUES1065	691	PUET1007AZTR	701
PTFE-C1613	732	PUES0604GL	692	PUES1065AZ	692	PUET1007NETR	701
PTFE-C1613BL50	732	PUES0604GL-25BX	692	PUES1065AZ-25BX	692	PUET1007ROTR	701
PTFE-C1613NU50	732	PUES0604NE	692	PUES1065GL	692	PUET1007TR	701
PTFE-C1613RO50	732	PUES0604NE-25BX	692	PUES1065GL-25BX	692	PUET1208	701
PU-PVC0610	751	PUES0604RO	692	PUES1208	691	PUET1208AZTR	701
PU-PVC0610AZ	752	PUES0604RO-25BX	692	PUES1208AZ	692	PUET1208NETR	701
PU-PVC0812	751	PUES0604SL	692	PUES1208AZ-25BX	692	PUET1208ROTR	701
PU-PVC0812AZ	752	PUES0604SL-25BX	692	PUES1208GL	692	PUET1208TR	701
PU-PVC1015	751	PUES0604TR	692	PUES1208GL-25BX	692	PUET1410	701
PU-PVC1015AZ	752	PUES0604TR-25BX	692	PUES1208NE	692	PUET1410AZTR	701
PU-PVC1016	751	PUES0604VD	692	PUES1208NE-25BX	692	PUET1410NETR	701
PU-PVC1016AZ	752	PUES0604VD-25BX	692	PUES1208TR	692	PUET1410ROTR	701
PU-PVC1319	751	PUES0805	691	PUES1208TR-25BX	692	PUET1410TR	701
PU-PVC1319AZ	752	PUES0805AZ	692	PUES1209	691	PUET1611	701
PUAS0425	705	PUES0805AZ-25BX	692	PUES1209AZ	692	PUET1611AZTR	701
PUAS0425NE	705	PUES0805GL	692	PUES1209AZ-25BX	692	PUET1611NETR	701
PUAS0639	705	PUES0805GL-25BX	692	PUES1209AZTR	692	PUET1611ROTR	701
PUAS0639NE	705	PUES0855	691	PUES1209AZTR-25BX	692	PUET1611TR	701
PUAS0857	705	PUES0855AZ	692	PUES1209GL	692	PUFA0402	709
PUAS0857NE	705	PUES0855AZ-25BX	692	PUES1209GL-25BX	692	PUFA0402AZ	709
PUAS1075	705	PUES0855AZTR	692	PUES1209NE	692	PUFA0402BO	709
PUAS1075NE	705	PUES0855AZTR-25BX	692	PUES1209NE-25BX	692	PUFA0804	709
PUAS1209	705	PUES0855GL	692	PUES1209RO	692	PUFA0804AZ	709
PUAS1209NE	705	PUES0855GL-25BX	692	PUES1209RO-25BX	692	PUFA0804BO	709
PUC-C03	39	PUES0855NE	692	PUES1209SL	692	PUFA1006	709
PUC-C04	39	PUES0855NE-25BX	692	PUES1209SL-25BX	692	PUFA1006AZ	709
PUC-C06	39	PUES0855RO	692	PUES1209TR	692	PUFA1006BO	709
PUES0302	691	PUES0855RO-25BX	692	PUES1209TR-25BX	692	PUFA1208	709
PUES0302AZ	692	PUES0855SL	692	PUES1209VD	692	PUFA1208AZ	709



PUFA1208BO	709	PUHQ1075NE-25	696	PVC0406	743	SB304TR130175-STL-DP	454
PUFA1410	709	PUHQ1209	695	PVC0407	743	SB304TR150350-DP	454
PUFA1410AZ	709	PUHQ1209-25	696	PVC0609	743	SB304TR150350-STC-DP	454
PUFA1410BO	709	PUHQ1209BL	695	PVC0710	743	SB304TR150350-STL-DP	454
PUFA1611	709	PUHQ1209BL-25	696	PVC0812	743	SB304TR170560-DP	454
PUFA1611AZ	709	PUHQ1209NE	695	PVC1014	743	SB304TR170560-STC-DP	454
PUFA1611BO	709	PUHQ1209NE-25	696	PVC1217	743	SB304TR170560-STL-DP	454
PUFH0402	713	PUHQ1411	695	PVC1419	743	SB304TR220540-DP	454
PUFH0804	713	PUHQ1411-25	696	PVC1622	743	SB304TR220540-STC-DP	454
PUFH1006	713	PUHQ1411BL	695	PVC1824	743	SB304TR220540-STL-DP	454
PUFH1208	713	PUHQ1411BL-25	696	PVC2027	743	SCPW08	51
PUFH1410	713	PUHQ1411NE	695	PVC2533	743	SCPW10	51
PUFH1611	713	PUHQ1411NE-25	696	PVSC06G01	353	SH14AC110-N	683
PUFW1006	711	PUHQ1611-25	696	PVSC06G02	353	SH14AC110/B-N	683
PUFW1006RO	711	PUHQ1611BL-25	696	PVSC06R01	353	SH14AC220-N	683
PUFW1006VD	711	PUHQ1611NE-25	696	PVSC06R02	353	SH14AC220/B-N	683
PUFW1208	711	PUKS0604	717	PVSC08G01	353	SH14AC24-N	683
PUFW1208RO	711	PUKS0604AZ	717	PVSC08G02	353	SH14AC24/B-N	683
PUFW1208VD	711	PUKS0857	717	PVSC08G03	353	SH14AC240-N	683
PUFW1410	711	PUKS0857AZ	717	PVSC08R01	353	SH14AC240/B-N	683
PUFW1410RO	711	PUKS1075	717	PVSC08R02	353	SH14DC12-N	683
PUFW1410VD	711	PUKS1075AZ	717	PVSC08R03	353	SH14DC12/B-N	683
PUFW1611	711	PUKS1209	717	PVSC10G02	353	SH14DC12/HP-N	683
PUFW1611RO	711	PUKS1209AZ	717	PVSC10G03	353	SH14DC24-N	683
PUFW1611VD	711	PUKS1410	717	PVSC10G04	353	SH14DC24/B-N	683
PUHQ0425	695	PUKS1410AZ	717	PVSC10R02	353	SH14DC24/HP-N	683
PUHQ0425-25	696	PUKS1611	717	PVSC10R03	353	SI0305FQ	739
PUHQ0425BL	695	PUKS1611AZ	717	PVSC10R04	353	SI0306FQ	739
PUHQ0425BL-25	696	PUL-C03	40	PVSC12G03	353	SI0406FQ	739
PUHQ0425BLNE	698	PUL-C04	40	PVSC12G04	353	SI0407FQ	739
PUHQ0425NE	695	PUL-C06	40	PVSC12R03	353	SI0508FQ	739
PUHQ0425NE-25	696	PUT-C03	40	PVSC12R04	353	SI0609FQ	739
PUHQ0604	695	PUT-C04	40	PVSF-G01	394	SI0610FQ	739
PUHQ0604-25	696	PUT-C06	40	PVSF-G02	394	SI0811FQ	739
PUHQ0604BL	695	PVC-AC0614	755	PVSF-G03	394	SI0812FQ	739
PUHQ0604BL-25	696	PVC-AC0614NE100	756	PVSF-G04	394	SI0912FQ	739
PUHQ0604BLNE	698	PVC-AC0817	755	PVSF-R01	394	SI1013FQ	739
PUHQ0604NE	695	PVC-AC0817NE100	756	PVSF-R02	394	SI1014FQ	739
PUHQ0604NE-25	696	PVC-AC1019	755	PVSF-R03	394	SI1215FQ	739
PUHQ0806BLNE	698	PVC-AC1019NE100	756	PVSF-R04	394	SI3506FQ	739
PUHQ0857	695	PVC-AC1323	755	PW-C0403	41	SMPC04M5W	52
PUHQ0857-25	696	PVC-AC1323NE	756	PW-C0603	41	SMPC04R01W	52
PUHQ0857BL	695	PVC-AC1928	755	PW-C0604	41	SMPC06M5W	52
PUHQ0857BL-25	696	PVC-AC1928NE	756	PY-C03	41	SMPC06R01W	52
PUHQ0857NE	695	PVC-RT0612	747	PY-C04	41	SMPC06R02W	52
PUHQ0857NE-25	696	PVC-RT0814	747	PY-C06	41	SMPC06R03W	52
PUHQ1075	695	PVC-RT1016	747	PZ-G	765	SMPC08R01W	52
PUHQ1075-25	696	PVC-RT1218	747	PZ-P	765	SMPC08R02W	52
PUHQ1075BL	695	PVC-RT1420	747	R-PTFE12012	464	SMPC08R03W	52
PUHQ1075BL-25	696	PVC-RT1622	747	R-PTFE190215-PROF	464	SMPC08R04W	52
PUHQ1075BLNE	698	PVC-RT1926	747	SB304TR130175-DP	454	SMPC10R02W	52
PUHQ1075NE	695	PVC-RT2533	747	SB304TR130175-STC-DP	454	SMPC10R03W	52



SMPC10R04W	52	SPHM-16-16N-BS	775	SPL12R04	371	SVP2CM34M34M7	678
SMPC12R02W	52	SPHM-16-16R	777	SPU04	371	SVP2CM34M34M9	678
SMPC12R03W	52	SPHM-16-16R-BS	775	SPU06	371	SVP2CM38M38M1	678
SMPC12R04W	52	SPHM-4-4N	777	SPU08	371	SVP2CM38M38M2	678
SMPL04M5W	52	SPHM-4-4N-BS	775	SPU10	371	SVP2CM38M38M5	678
SMPL04R01W	52	SPHM-4-4R	777	SPU12	371	SVP2CM38M38M7	678
SMPL06M5W	52	SPHM-4-4R-BS	775	SPUM04	370	SVP2CM38M38M9	678
SMPL06R01W	52	SPHM-6-4N	777	SPUM06	370	SVX2C15G18	682
SMPL06R02W	52	SPHM-6-4N-BS	775	SPUM08	370	SVX2C25G14	682
SMPL06R03W	52	SPHM-6-4R	777	SPUM10	370	SVX2C30G18	682
SMPL08R01W	52	SPHM-6-4R-BS	775	SPUM12	370	SVX2C40G14	682
SMPL08R02W	52	SPHM-6-6N	777	STF04	766	SVX2C50G38	682
SMPL08R03W	52	SPHM-6-6N-BS	775	STF06	766	SVX2C64G12	682
SMPL08R04W	52	SPHM-6-6R	777	STF08	766	SVX2C64G38	682
SMPL10R02W	52	SPHM-6-6R-BS	775	STF10	766	SVX3C15G18	682
SMPL10R03W	52	SPHM-8-8N	777	STF12	766	SVX3C25G14	682
SMPL10R04W	52	SPHM-8-8N-BS	775	STF14	766	SVX3C40G14	682
SMPL12R02W	52	SPHM-8-8R	777	STFT15	784	SXSC01-DF	348
SMPL12R03W	52	SPHM-8-8R-BS	775	STFT22	784	SXSC02-DF	348
SMPL12R04W	52	SPHU-12-12	778	SVP2CAL34CL10M1	679	SXSC03-DF	348
SPC04G01	370	SPHU-12-12-BS	775	SVP2CAL34CL10M2	679	SXSC04-DF	348
SPC04R01	370	SPHU-16-16	778	SVP2CAL34CL10M5	679	SXSC06G01-D	348
SPC06G01	370	SPHU-16-16-BS	775	SVP2CAL34CL10M7	679	SXSC06G02-D	348
SPC06G02	370	SPHU-4-4	778	SVP2CAL34CL10M9	679	SXSC08G01-D	348
SPC06R01	370	SPHU-4-4-BS	775	SVP2CAL34IR10M1	677	SXSC08G02-D	348
SPC06R02	370	SPHU-6-6	778	SVP2CAL34IR10M2	677	SXSC10G02-D	348
SPC08G02	370	SPHU-6-6-BS	775	SVP2CAL34IR10M5	677	TT16	765
SPC08G03	370	SPHU-8-8	778	SVP2CAL34IR10M7	677	UCES060405	760
SPC08R02	370	SPHU-8-8-BS	775	SVP2CAL34IR10M9	677	UCES060405AZ	760
SPC08R03	370	SPL04G01	371	SVP2CAL34IR3/8M1	677	UCES060405G14	761
SPC10G02	370	SPL04M5	371	SVP2CAL34IR3/8M2	677	UCES060405G14AZ	761
SPC10G03	370	SPL04M6	371	SVP2CAL34IR3/8M5	677	UCES060405G14GL	761
SPC10G04	370	SPL04R01	371	SVP2CAL34IR3/8M7	677	UCES060405GL	760
SPC10R02	370	SPL06G01	371	SVP2CAL34IR3/8M9	677	UCES060410	760
SPC10R03	370	SPL06G02	371	SVP2CIR10IR10M1	676	UCES060410AZ	760
SPC10R04	370	SPL06M5	371	SVP2CIR10IR10M2	676	UCES060410G14	761
SPC12G02	370	SPL06R01	371	SVP2CIR10IR10M5	676	UCES060410G14AZ	761
SPC12G03	370	SPL06R02	371	SVP2CIR10IR10M7	676	UCES060410G14GL	761
SPC12G04	370	SPL08G02	371	SVP2CIR10IR10M9	676	UCES060410GL	760
SPC12R02	370	SPL08G03	371	SVP2CIR3/8IR3/8M1	676	UCES060435	760
SPC12R03	370	SPL08R01	371	SVP2CIR3/8IR3/8M2	676	UCES060435AZ	760
SPC12R04	370	SPL08R02	371	SVP2CIR3/8IR3/8M5	676	UCES060435G14	761
SPHA-12-12T	778	SPL08R03	371	SVP2CIR3/8IR3/8M7	676	UCES060435G14AZ	761
SPHA-16-16T	778	SPL10G02	371	SVP2CIR3/8IR3/8M9	676	UCES060435G14GL	761
SPHA-4-4T	778	SPL10G03	371	SVP2CM12M12M1	678	UCES060435GL	760
SPHA-6-6T	778	SPL10G04	371	SVP2CM12M12M2	678	UCES060475	760
SPHA-8-8T	778	SPL10R02	371	SVP2CM12M12M5	678	UCES060475AZ	760
SPHM-12-12N	777	SPL10R03	371	SVP2CM12M12M7	678	UCES060475G14	761
SPHM-12-12N-BS	775	SPL10R04	371	SVP2CM12M12M9	678	UCES060475G14AZ	761
SPHM-12-12R	777	SPL12G03	371	SVP2CM34M34M1	678	UCES060475G14GL	761
SPHM-12-12R-BS	775	SPL12G04	371	SVP2CM34M34M2	678	UCES060475GL	760
SPHM-16-16N	777	SPL12R03	371	SVP2CM34M34M5	678	UCES080505	760



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UCES080505G14	761	UCES120875	760	WTRC16R04	7	WTRFR06M5-IN	325
UCES080505G14AZ	761	UCES120875AZ	760	WTRCF04G01	10	WTRFR06R01	324
UCES080505G14GL	761	UCES120875G38	761	WTRCF04G02	10	WTRFR06R01-IN	324
UCES080505GL	760	UCES120875G38AZ	761	WTRCF06G01	10	WTRFR06R02	324
UCES080510	760	UCES120875G38GL	761	WTRCF06G02	10	WTRFR06R02-IN	324
UCES080510AZ	760	UCES120875GL	760	WTRCF06G03	10	WTRFR06R03	324
UCES080510G14	761	UGPT-7	482	WTRCF08G01	10	WTRFR06R03-IN	324
UCES080510G14AZ	761	WTRC04G01	8	WTRCF08G02	10	WTRFR06R04	324
UCES080510G14GL	761	WTRC04G02	8	WTRCF08G03	10	WTRFR06R04-IN	324
UCES080510GL	760	WTRC04M5	8	WTRCF08G04	10	WTRFR08G01	325
UCES080535	760	WTRC04M6	8	WTRCF10G01	10	WTRFR08G01-IN	325
UCES080535AZ	760	WTRC04M7	8	WTRCF10G02	10	WTRFR08G02	325
UCES080535G14	761	WTRC04R01	7	WTRCF10G03	10	WTRFR08G02-IN	325
UCES080535G14AZ	761	WTRC04R02	7	WTRCF10G04	10	WTRFR08G03	325
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UCES080535GL	760	WTRC06G02	8	WTRCF12G03	10	WTRFR08G04	325
UCES080575	760	WTRC06G03	8	WTRCF12G04	10	WTRFR08G04-IN	325
UCES080575AZ	760	WTRC06G04	8	WTRCV04	29	WTRFR08R01	324
UCES080575G14	761	WTRC06M5	8	WTRCV04BL	29	WTRFR08R01-IN	324
UCES080575G14AZ	761	WTRC06M6	8	WTRCV04BO	29	WTRFR08R02	324
UCES080575G14GL	761	WTRC06M7	8	WTRCV04GL	29	WTRFR08R02-IN	324
UCES080575GL	760	WTRC06R01	7	WTRCV04RO	29	WTRFR08R03	324
UCES106505	760	WTRC06R02	7	WTRCV04VD	29	WTRFR08R03-IN	324
UCES106505AZ	760	WTRC06R03	7	WTRCV06	29	WTRFR08R04	324
UCES106505G14	761	WTRC06R04	7	WTRCV06BL	29	WTRFR08R04-IN	324
UCES106505G14AZ	761	WTRC08G01	8	WTRCV06BO	29	WTRFR10G01	325
UCES106505G14GL	761	WTRC08G02	8	WTRCV06GL	29	WTRFR10G01-IN	325
UCES106505GL	760	WTRC08G03	8	WTRCV06RO	29	WTRFR10G02	325
UCES106510	760	WTRC08G04	8	WTRCV06VD	29	WTRFR10G02-IN	325
UCES106510AZ	760	WTRC08R01	7	WTRFF0606	409	WTRFR10G03	325
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UCES106510G14AZ	761	WTRC08R03	7	WTRFF1010	409	WTRFR10G04	325
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UCES106575GL	760	WTRC10R03	7	WTRFR04R01	324	WTRFR10R04	324
UCES120805	760	WTRC10R04	7	WTRFR04R01-IN	324	WTRFR10R04-IN	324
UCES120805AZ	760	WTRC12G02	8	WTRFR04R02	324	WTRFR12G02	325
UCES120805G38	761	WTRC12G03	8	WTRFR04R02-IN	324	WTRFR12G02-IN	325
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WTRFR12R04-IN	324	WTRGT1612	24	WTRHF10R03	18	WTRKJ0804	27
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WTRFS06G02	406	WTRH04M5	17	WTRHF12G03	18	WTRKJ1006	27
WTRFS06G03	406	WTRH04M6	17	WTRHF12G04	18	WTRKJ1008	27
WTRFS06R01	406	WTRH04R01	17	WTRHF12R02	18	WTRLO4G01	13
WTRFS06R02	406	WTRH04R02	17	WTRHF12R03	18	WTRLO4G02	13
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WTRFS08G03	406	WTRH06M6	17	WTRIG1008	28	WTRLO4R02	12
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WTRSS01R01	408	WTRT04G02	19	WTRUC-PRD04	28	WTRWT06R03	21
WTRSS02G01	408	WTRT04M5	19	WTRUC-PRD06	28	WTRWT06R04	21
WTRSS02G02	408	WTRT04M6	19	WTRUC-PRD08	28	WTRWT08G01	21
WTRSS02R01	408	WTRT04R01	19	WTRUC-PRD10	28	WTRWT08G02	21
WTRSS02R02	408	WTRT04R02	19	WTRUC0400	23	WTRWT08G03	21
WTRSS03G02	408	WTRT06G01	19	WTRUC0500	23	WTRWT08G04	21
WTRSS03G03	408	WTRT06G02	19	WTRUC0600	23	WTRWT08R01	21
WTRSS03R02	408	WTRT06G03	19	WTRUC0700	23	WTRWT08R02	21
WTRSS03R03	408	WTRT06G04	19	WTRUC0800	23	WTRWT08R03	21
WTRSS04G03	408	WTRT06M5	19	WTRUC0900	23	WTRWT08R04	21
WTRSS04G04	408	WTRT06M6	19	WTRUC1000	23	WTRWT10G01	21
WTRSS04R03	408	WTRT06R01	19	WTRUC1100	23	WTRWT10G02	21
WTRSS04R04	408	WTRT06R02	19	WTRUC1200	23	WTRWT10G03	21
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WTRST04R02	20	WTRT08G04	19	WTRUL0800	23	WTRWT12G02	21
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WTRST06M5	20	WTRT10G01	19	WTRUT0400	24	WTRWT12R04	21
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