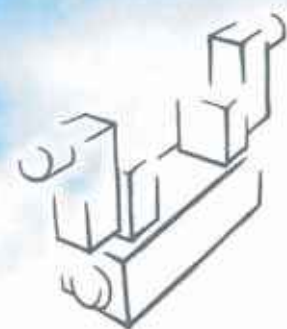


METAL[®] WORK

P N E U M A T I C



GENERAL CATALOGUE

Quality Management
ISO 9001:2008
► Voluntary participation
in regular monitoring



Environmental
Management
ISO 14001
► Voluntary participation
in regular monitoring



Work Safety
OHSAS 18001
► Voluntary participation
in regular monitoring





“ Our team works
together, towards a
common goal: there
is nothing we have done
yesterday that cannot
be improved today. ”



A global company



Metal Work Concesio.



One of P Services, the Italian subsidiaries.



One of Metal Work subsidiaries abroad.

Metal Work was set up in 1967 for the production of push-in fittings for compressed air systems.

The company gradually extended its production and sales structure to become a leader in pneumatic systems for automation.

Now the production unit in Concesio has a staff of about 350, while the national and international sales organisation staff number around 450.

In 1992 Metal Work has obtained the ISO 9001 certification.

To the quality management one, in 2000 we have add the one related to the enviromental managment according the ISO 14001.

To these METAL WORK S.p.A. applied the OHSAS 18001 standard in 2007 to guarantee a Management System of Occupational Safety and Health.

All the certifications above mentioned have been released by the German certification body DEKRA ITS, accredited by TGA.

Products are distributed through 40 branches in Italy and abroad, which offer an efficient capillary before- and after-sales service.

The product quality and an efficient sales organisation are the basis on which Metal Work firmly stands and enable the company to meet all possible requirements in pneumatic systems for automation.





Quality in design, production and distribution

Metal Work is a fully integrated manufacturing company. This system guarantees the customer a fully monitored production process and a consistently top quality product. Process engineering and product engineering come together in the constant quest for perfection.

Virtually all the products are manufactured at the company's own production site allowing the company to monitor the entire process from the selection of raw materials to final assembly, thus cutting wastage and lead times.

Production data and test results undergo critical analysis to enable the company to upgrade the products and the manufacturing process.

Company-wide quality control is a permanent feature at Metal Work.

Total quality

Metal Work obtained ISO 9001 certification in 1992 and ISO 14001 certification in 2000, and OHSAS 18001 certification in 2007, ample proof of our way of working and daily mission. Particular care is taken at all levels, from design to energy saving, and we can safely state that, compared with conventional products, the electrical power required to operate our valves has been cut by 75% over the last few years.

Certification covers not only the holding company but also the other companies in the Group, allowing both our products and our philosophy to gain world-wide recognition. All Metal Work products meet EC and other standards including electromagnetic compatibility (EMC certificate).

Metal Work engineers are on ISO, UNI and ASSOFLUID committees as product standardisation is always a guarantee of product quality.

A customer-oriented policy

The product is not Metal Work's only strong point. Great care is taken over customer service, with the aim of providing the best possible solution for a specific requirement within the allotted time and with the utmost safety.

The Metal Work or P Service sales personnel work in close co-operation with the customer, providing the necessary backup to solve any technical problems, and search for new materials or information.

Metal Work invests heavily in providing the customers with the necessary training.

Our range includes all types of special products suitable for use in a wide variety of applications.



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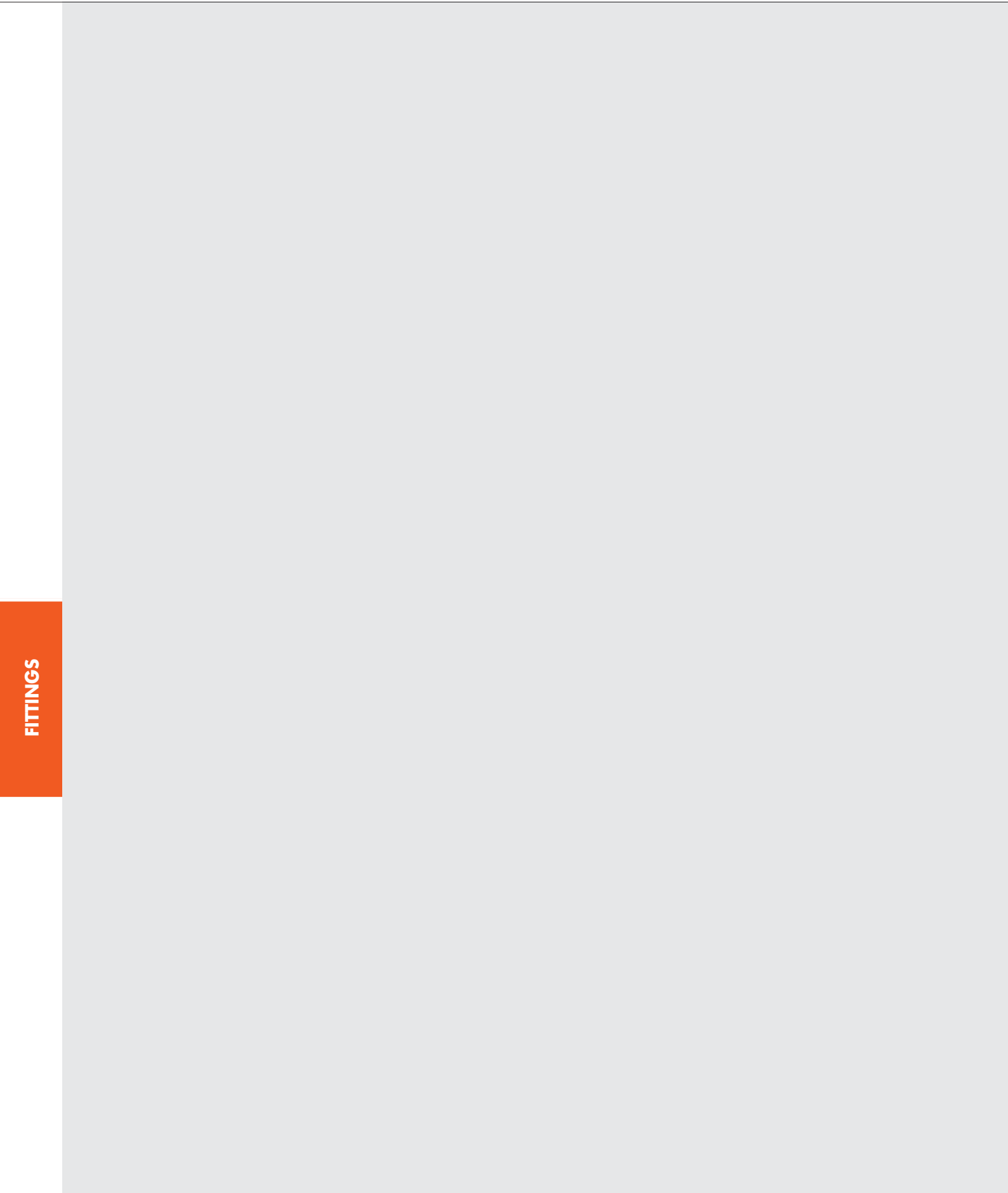
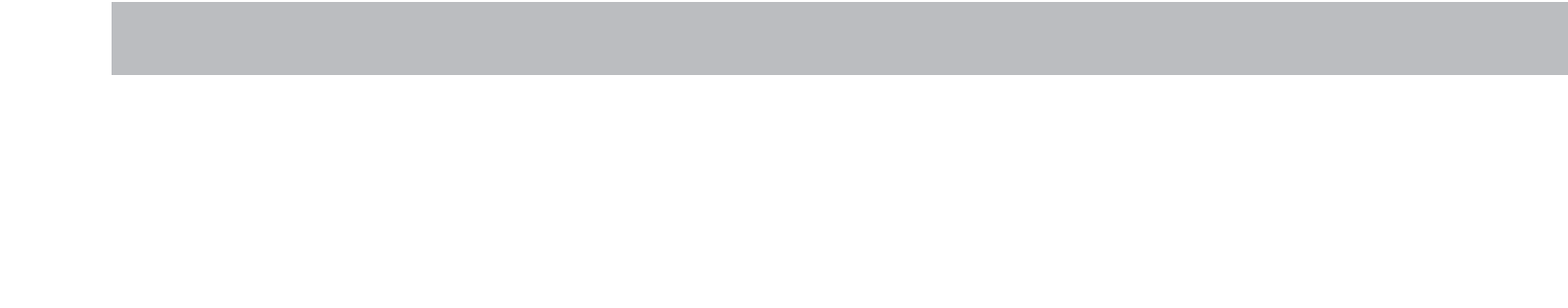
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	● AUTOMATIC FITTINGS FOR USE IN THE FOOD INDUSTRY	PAGE	4-28	
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FITTINGS

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● PUSH-IN FITTINGS FOR USE IN THE FOOD INDUSTRY	PAGE 4-28
● FITTINGS SERIES A - SERIES B - SERIES C - SERIES D	PAGE 4-33
● TAPERED THREAD FITTINGS WITH PTFE	PAGE 4-50





● **PUSH-IN FITTINGS**

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● **SERIES F PUSH-IN FITTINGS FOR USE IN THE FOOD INDUSTRY**

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● **STANDARD FITTINGS SERIES A**

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● **COMPRESSION FITTINGS SERIES B**

PAGE 4-40



● **QUICK FITTINGS SERIES C**

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● **BANJO FITTINGS SERIES D**

PAGE 4-47



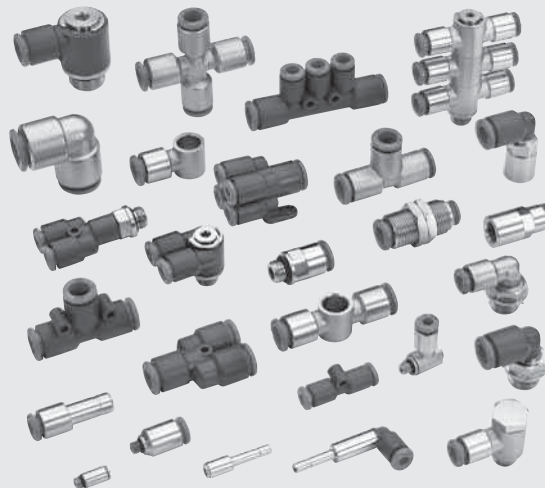
● **TAPERED THREAD FITTINGS WITH PTFE**

PAGE 4-50

PUSH-IN FITTINGS

Push-in fittings by Metal Work are the best elements for connecting pipes and actuators. Quick and easy to use, the Metal Work push-in fitting can be re-used thousands of times without affecting the pneumatic and mechanical seal in any way. It comes in various configurations and guarantees a virtually unlimited, highly flexible use. The clamping spring with its special shape grips the pipe without scratching or deforming it, which facilitates release.

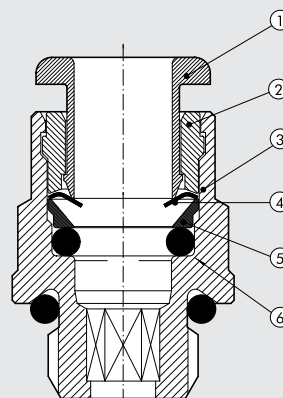
In the fittings, the release bushing has patented screwdriver slots to facilitate release in applications not accessible to the fingers. Configurations RL19, RL21, RL22, RL23, RL23M, RL24, RL44, and RL49 (except for Ø5), have a ring for fixing to the wall asymmetrically in order to contain the head of a screw within the overall dimensions of the fitting.



TECHNICAL DATA		
Threaded coupling		M3 - M5 - M7 - 1/8" - 1/4" - 3/8" - 1/2"
Diameter	mm	Ø 3 - Ø 3.17 - Ø 4 - Ø 5 - Ø 6 - Ø 8 - Ø 10 - Ø 12 - Ø 14
Temperature range for brass fittings	°C	- 20 to + 80
	°F	- 4 to 176
Temperature range for technopolymer fittings	°C	- 20 to + 60
	°F	- 4 to 140
Pressure range for brass fittings		- 0.99 bar ... 16 bar / - 0.099 MPa ... 1.6 MPa
Pressure range for technopolymer fittings		- 0.99 bar ... 12 bar / - 0.099 MPa ... 1.2 MPa
Recommended pipe		Rilsan PA 11 - Nylon 6 - Polyamide 12 - Polypropylene
Fluid		Vacuum - Compressed air

COMPONENTS

- ① Ring or release bushing: technopolymer
- ② Locking bushing: brass or technopolymer
- ③ Body: brass or technopolymer
- ④ Clamping spring: stainless steel (for pipes Ø 3 and Ø 3.17 and R31 Ø 5 and R32 Ø 5: brass gripper)
- ⑤ Spring supporting ring: technopolymer
- ⑥ Seal: NBR

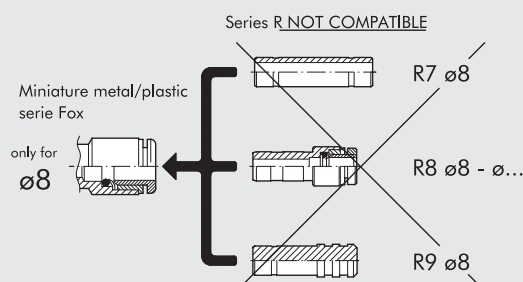


O-RING BELOW R FITTINGS

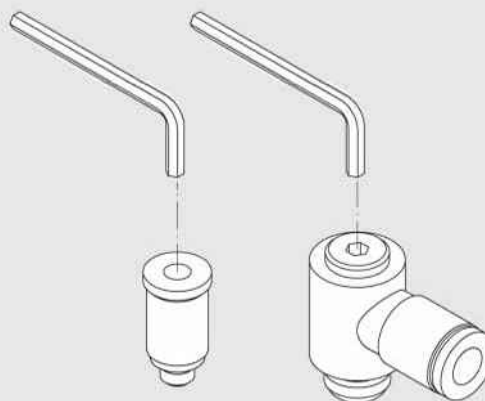
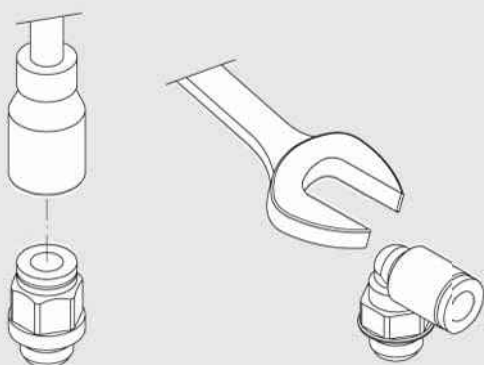
Thread	Initials	Dimensions of O-ring
M3		2.6 x 1
M5 (for Ø 3 - Ø 3.17)		3 x 1.2
M5		3.5 x 1.2
M7		5 x 1.5
M12x1.5		9.75 x 1.78
1/8	2031	7.66 x 1.78
1/4	2043	10.82 x 1.78
3/8	2056	14 x 1.78
1/2	3068	17.13 x 2.62

FOR Ø 8 PUSH-IN FITTINGS ONLY

The new series of Ø 8 miniature push-in fittings, identified in the code by a letter L and visually by the screwdriver slot on the release ring, are not compatible with fittings R7, R8 and R9 Ø 8 in the old series.



SCREWING METHOD



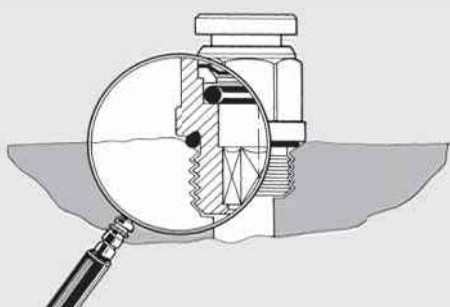
Thread	Max. Torque [Nm]
M3	0.4
M5	1.8
M7	2.5
M12x1.5	8
G 1/8"	6
G 1/4"	8
G 3/8"	10
G 1/2"	15

CH [mm]	Max. Torque [Nm]
1.5	0.4
2	0.7
2.5	1.2
3	2.5
4	5
5	8
Over 5	See the values concerning threads

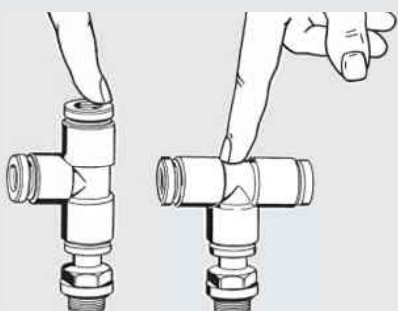
NB: When using a socket spanner, the torque must not exceed that of the thread (e.g. fitting RL1 6 M7, with a 4 mm thread, has a maximum torque of 2.5 Nm, highest value of the thread)

GENERAL FEATURES

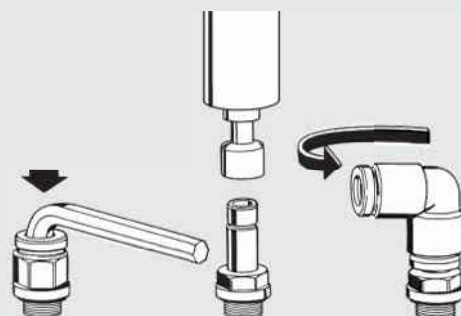
All fittings have cylindrical threading and incorporate a O-ring (Metal Work patent). The use of an O-ring considerably improves the seal of angled, rough, and slightly convex surfaces. Teflon® (PTFE) is no longer used.



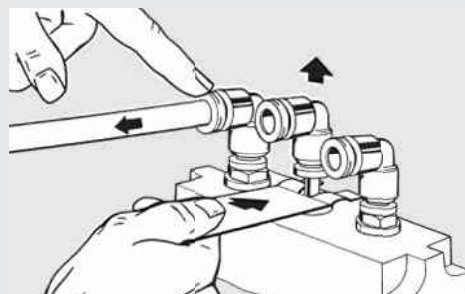
A single tee can give central tees and lateral tees.



Mounting fittings with an Allen wrench or pneumatic tool. All the elbows and tees are rotary. Drastic reduction in assembly times.

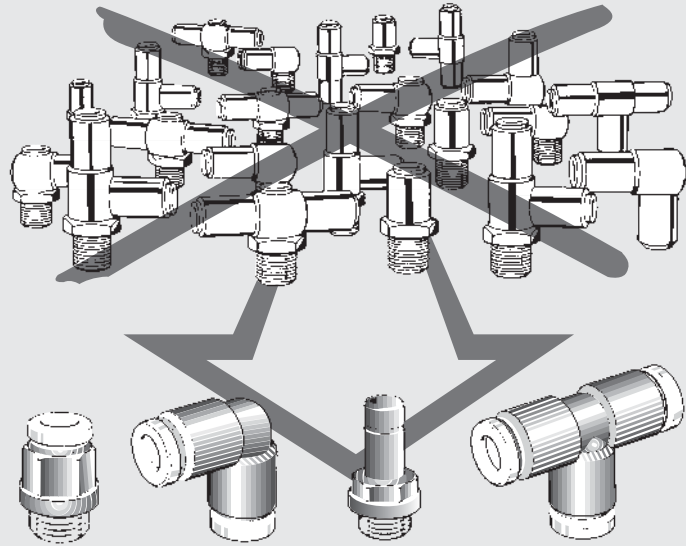


The pipe is easy to assemble by pressing lightly on the pusher ring. To remove the fitting, merely push radially on the key.



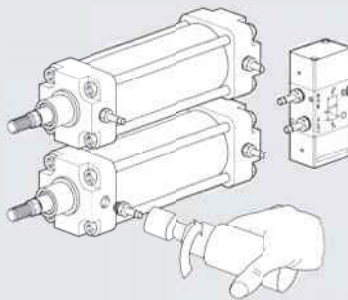
FROM AN IDEA, A SYSTEM

- Four basic fittings can be used to make all possible connections in a pneumatic circuit.
- Sharp drop in the number of fittings to be stocked and hence reduced operating costs.

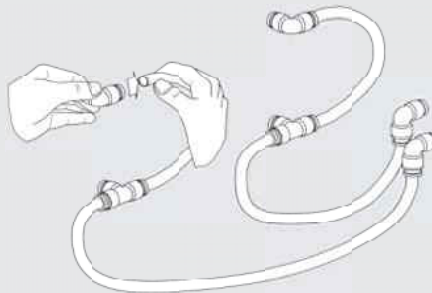


ASSEMBLY DIAGRAM

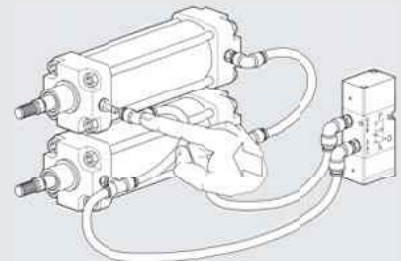
Pre-assembling fittings on the workbench with pneumatic tool even with very close centre distances.



Pre-assembling fittings and pipe sections on the workbench. Pre-assembled configurations can be stocked for assembly in series.

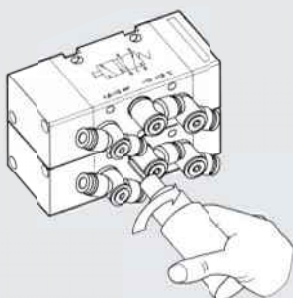


Quick connection and completion of the pneumatic circuit.

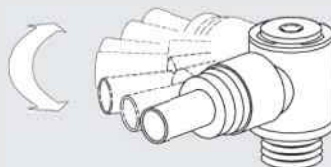


FROM A SYSTEM, INNOVATION

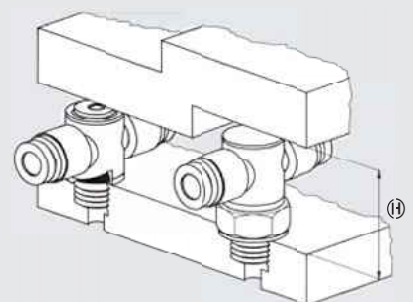
An Allen wrench is used to assemble rotary fittings even with very close centre distances.



The special configuration with two O-rings allows maximum orientation so as to follow pipe movement in the specific application.

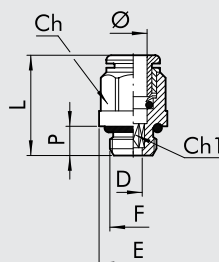


Fittings with a built-in gasket and reduced height (H) with the same threaded coupling and pipe diameter.



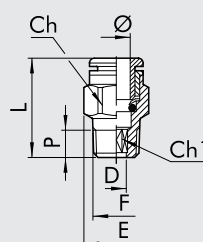
BRASS FITTINGS

STRAIGHT, CYLINDRICAL, MALE (R1)



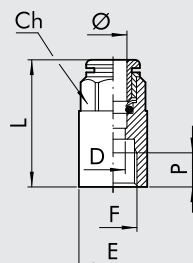
Code	Ref.	Ø	F	Ch	Ch1	P	L	D	E
2001B01	R1	3	M3	Ø 5.8	1.5	3	12.6	1.5	5.8
2001B02	R1	3	M5	Ø 5.8	2	3.5	13	2	5.8
2001A01	R1	3.17	M3	Ø 5.8	1.5	3	12.6	1.5	5.8
2001A02	R1	3.17	M5	Ø 5.8	2	3.5	13	2	5.8
2L01001	RL1	4	M5	Ø 9	2.5	4	20.3	2.6	9
2L01020	RL1	4	M7	Ø 9	3	5	18.9	3.1	9.8
2L01002	RL1	4	1/8	10	3	6	18	3.1	14
2L01003	RL1	4	1/4	10	3	8	19.8	3.1	18
2001004	R1	5	M5	Ø 12	2.5	4	22.5	2.6	12
2001005	R1	5	1/8	13	3	6	22	3.1	15
2001006	R1	5	1/4	12	3	8	24	3.1	18
2L01000	RL1	6	M5	Ø 11	2.5	4	21.9	2.6	11
2L01021	RL1	6	M7	Ø 11	4	5	23	4.1	11
2L01101	RL1	6	M12x1.5	12	4	8	23.2	4.1	17
2L01007	RL1	6	1/8	12	4	6	21.6	4.1	14
2L01008	RL1	6	1/4	12	4	8	20.3	4.1	18
2L01102	RL1	8	M12x1.5	14	6	8	24.5	6.2	17
2L01009	RL1	8	1/8	13	5	6	25.4	5.2	14
2L01010	RL1	8	1/4	14	6	8	24.4	6.2	18
2L01011	RL1	8	3/8	14	6	9	22.8	6.2	22
2L01012	RL1	10	1/4	16	7	8	29.2	7.2	18
2L01013	RL1	10	3/8	16	8	9	26.5	8.2	22
2L01018	RL1	10	1/2	16	8	11	29.8	8.2	26
2001019	RL1	12	1/4	19	7	8	30.5	7.2	21
2001014	RL1	12	3/8	19	10	9	28.1	10.2	22
2001015	RL1	12	1/2	19	10	11	29.3	10.2	26
2001016	RL1	14	3/8	22	10	9	33.8	10.2	24.6
2001017	RL1	14	1/2	22	12	11	31.5	12.2	26

STRAIGHT, CONICAL, MALE (R1C)



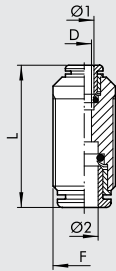
Code	Ref.	Ø	F	Ch	Ch1	D	E	L	P
2L01C02	RL1C	4	1/8	10	3	3.1	11.3	18.5	6.2
2L01C07	RL1C	6	1/8	12	4	4.1	13.5	22.5	6.2
2L01C08	RL1C	6	1/4	12	4	4.1	13.2	22.3	8.5
2001Z07	RL1Z	6	12x1 conical	12	4	4.1	13.2	23.5	9
2001Z08	RL1Z	6	12x1.25 conical	12	4	4.1	13.2	23.5	9
2L01C09	RL1C	8	1/8	13	6	6.2	14.3	26	6.2
2L01C10	RL1C	8	1/4	14	6	6.2	15.8	25.5	8.5
2L01C11	RL1C	8	3/8	14	6	6.2	16.6	24.9	9
2L01C13	RL1C	10	1/4	16	7	7.2	17.7	28.9	8.5
2L01C14	RL1C	10	3/8	16	8	8.2	17.7	26	9
2001C15	RL1C	12	3/8	19	10	10.2	21	28.5	9
2001C16	RL1C	12	1/2	19	10	10.2	21.3	26.6	11

STRAIGHT, FEMALE (R2)



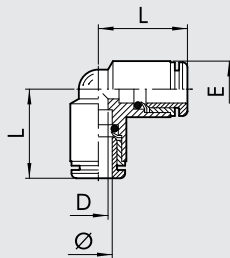
Code	Ref.	Ø	F	Ch	P	L	D	E
2002B02	R2	3	M5	7	4.5	15.7	2.5	7.8
2002A02	R2	3.17	M5	7	4.5	15.7	2.5	7.8
2L02001	RL2	4	1/8	10	7	26.2	3	14
2L02002	RL2	4	1/4	10	8	28.6	3	17
2002003	R2	5	1/8	12	7	27	4	14
2002004	R2	5	1/4	12	8	29.5	4	17
2L02005	RL2	6	1/8	12	7	27.1	5	14
2L02006	RL2	6	1/4	12	8	29.3	5	17
2L02007	RL2	8	1/8	13	7	28.1	7	14
2L02008	RL2	8	1/4	14	8	30	7	17
2L02009	RL2	10	1/4	16	8	31.8	8	17.7
2L02010	RL2	10	3/8	16	10	36.8	8	20.8
2L02011	RL2	12	3/8	19	10	37	10	20.8
2L02012	RL2	12	1/2	19	11	40.5	10	23.8

STRAIGHT, INTERMEDIATE (R3)



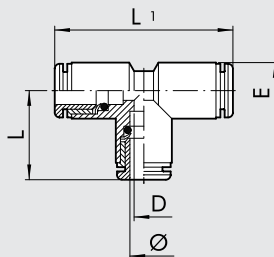
Code	Ref.	Ø 1	Ø 2	F	L	D
2003A02	R3	3	3	M8x0.75	18.4	2
2003A01	R3	3.17	3.17	M8x0.75	18.4	2
2I03001	RL3	4	4	M11x1	30.6	2.5
2003002	R3	5	5	M14x1	33.5	4
2I03003	RL3	6	6	M13x1	33	4.5
2I03004	RL3	8	8	M15x1	35.7	6.5
2I03005	RL3	10	10	M17x1	39.2	8
2003006	RL3	12	12	M20x1	40.7	10
2003007	RL3	14	14	M24x1	45.9	12
2I03301	RL3	4	6	M13x1	32.7	2.5
2I03302	RL3	4	8	M15x1	34.4	2.5
2I03303	RL3	6	8	M15x1	35	4.5
2I03304	RL3	6	10	M17x1	37.5	4.5
2I03306	RL3	6	12	M20x1	39	4.5
2I03305	RL3	8	10	M17x1	37.8	6.5
2I03307	RL3	8	12	M20x1	40.1	6
2I03308	RL3	10	12	M20x1	40.8	8

ELBOW, INTERMEDIATE (R4)



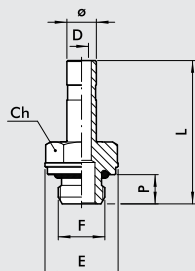
Code	Ref.	Ø	L	D	E
2004A02	4	3	10.4	2	6.3
2004A01	R4	3.17	10.4	2	6.3
2I04001	RL4	4	16.7	2.5	9.5
2004002	R4	5	19.2	3	13.5
2I04003	RL4	6	19	4.5	11.5
2I04004	RL4	8	21.3	6.5	13.5
2I04005	RL4	10	23.3	8	16
2004006	RL4	12	26	10	20.5
2004007	RL4	14	29.3	12	22

TEE, INTERMEDIATE (R5)



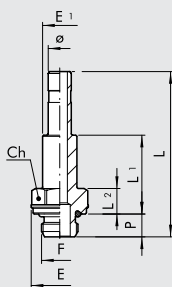
Code	Ref.	Ø	L	L1	D	E
2005A02	R5	3	10.4	20.8	2	6.3
2005A01	R5	3.17	10.4	20.8	2	6.3
2I05001	RL5	4	16.7	33.4	2.5	9.5
2005002	R5	5	19.2	38.4	3	13.5
2I05003	RL5	6	19	38	4.5	11.5
2I05004	RL5	8	21.3	42.6	6.5	13.5
2I05005	RL5	10	23.3	46.6	8	16
2005006	RL5	12	26	52	10	20.5
2005007	RL5	14	29.3	58.6	12	22

THREADED ADAPTER (R6)



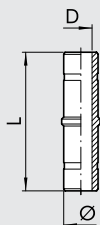
Code	Ref.	Ø	F	Ch	P	L	D	E
2006A02	R6	3	M5	5	3.5	17.1	2	5.8
2006A01	R6	3.17	M5	5	3.5	17.1	2	5.8
2006001	R6	4	M5	8	4	25.2	2.5	9
2006020	R6	4	M7	8	5	26.5	2.5	9.8
2006002	R6	4	1/8	13	6	28.9	2.5	15
2006003	R6	4	1/4	14	8	32.4	2.2	18
2006004	R6	5	M5	8	4	25.2	2.7	9
2006005	R6	5	1/8	13	6	28.9	3	15
2006006	R6	5	1/4	14	8	32.4	3	18
2006000	R6	6	M5	9	4	25.7	2.7	10
2006021	R6	6	M7	8	5	27	4	9.8
2006007	R6	6	1/8	13	6	29.4	4	15
2006008	R6	6	1/4	14	8	32.9	4	18
2006009	R6	8	1/8	13	6	30.6	5.5	15
2006010	R6	8	1/4	14	8	34	6	18
2006011	R6	8	3/8	17	9	35.4	6	22
2006012	R6	10	1/4	14	8	38.2	7.8	18
2006013	R6	10	3/8	17	9	38.7	8	22
2006022	R6	10	1/2	19	11	41	8	26
2006019	R6	12	1/4	14	8	40.7	7.8	18
2006014	R6	12	3/8	17	9	42.2	10	22
2006015	R6	12	1/2	22	11	44.2	10	26
2006016	R6	14	3/8	17	9	46.2	10	22
2006017	R6	14	1/2	22	11	48.2	12	26
2006101	R6	6	M12X1.5	13	8	33	4	17
2006102	R6	8	M12X1.5	13	8	33.7	6	17

EXTENDED THREADED ADAPTER (R18)



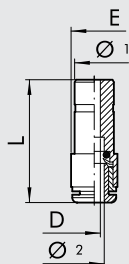
Code	Ref.	Ø	F	Ch	P	L	L1	L2	E	E1
2018002	R18	4	1/8	13	6	40.4	18.2	6.7	15	7
2018007	R18	6	1/8	13	6	43.4	20.7	6.7	15	9
2018008	R18	6	1/4	14	8	46.9	22.2	8.2	18	9
2018009	R18	8	1/8	13	6	46.5	22.7	6.7	15	11
2018010	R18	8	1/4	14	8	50	24.2	8.2	18	11
2018011	R18	8	3/8	17	9	51.4	24.7	8.7	22	13
2018012	R18	10	1/4	14	8	57.2	27.2	8.2	18	12
2018013	R18	10	3/8	17	9	58.7	27.7	8.7	22	12

EXTENSION (R7)



Code	Ref.	Ø	L	D
2007001	R7	4	34	2
2007002	R7	5	34	3
2007003	R7	6	37.5	4
2107004	RL7	8	37.5	6
2007005	R7	10	45	8
2007006	R7	12	48	10
2007007	R7	14	58	12

REDUCER (R8)

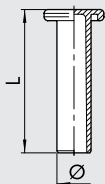


Code	Ref.	Ø 1	Ø 2	L	D	E
2008A01	R8	4	3	26	2	6.3
2008A02	R8	4	3.17	26	2	6.3
2008001	RL8	5	4	32.2	3	9.5
2108002	RL8	6	4	29.9	2.8	9.5
2008003	R8	6	5	36	4	12
2108004	RL8	8	4	28.7	2.8	9.5
2008005	R8	8	5	34.5	4	12
2108006	RL8	8	6	31.9	4.5	11.5
2108007	RL8	10	6	36.2	5	11.5
2108008	RL8	10	8	40.8	7	14
2008009	RL8	12	4	36.7	3	13
2008010	RL8	12	6	42	5	13
2008011	RL8	12	8	40.1	7	14
2008015	RL8	12	10	44.3	8.2	16
2008014	RL8	14	8	44.1	7	15.5
2008017	RL8	14	10	44.3	8.2	16
2008018	RL8	14	12	50	10	19.5

ADDITION

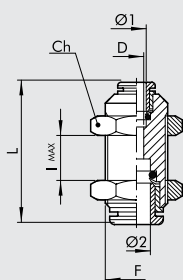
2009001	RL8/M	4	6	34.5	2.5	11.5
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PLUG (R9)



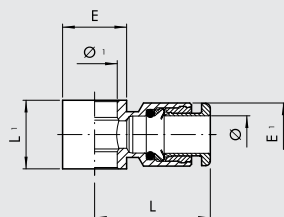
Code	Rif.	Ø	L	MATERIAL
2010A02	R9	3	20	Brass
2110A01	RL9T	3.17	19.6	Technopolymer
2110001	RL9T	4	27	Technopolymer
2010002	R9	5	27	Brass
2110003	RL9T	6	29.8	Technopolymer
2110004	RL9T	8	33.6	Technopolymer
2110005	RL9T	10	36.8	Technopolymer
2110006	RL9T	12	39	Technopolymer
2010007	R9	14	39.5	Brass

STRAIGHT, INTERMEDIATE, BULKMTAD (R10)



Code	Ref.	Ø 1	Ø 2	F	Ch	L	D	L max
2011A02	R10	3	3	M8x0.75	10	18.4	2	5
2011A01	R10	3.17	3.17	M8x0.75	10	18.4	2	5
2111001	RL10	4	4	M11x1	13	30.6	2.5	11
2011002	R10	5	5	M14x1	17	33.5	4	8
2111003	RL10	6	6	M13x1	16	33	4.5	12
2111004	RL10	8	8	M15x1	17	35.7	6.5	13.5
2111005	RL10	10	10	M17x1	20	39.2	8	17
2011006	RL10	12	12	M20x1	24	40.7	10	20.3
2011007	RL10	14	14	M24x1	27	45.9	12	21.9
2111301	RL10	4	6	M13x1	16	32.7	2.5	11
2111302	RL10	4	8	M15x1	17	34.4	2.5	12
2111303	RL10	6	8	M15x1	17	35	4.5	13
2111304	RL10	6	10	M17x1	20	37.5	4.5	14.5
2111306	RL10	6	12	M20x1	24	39	4.5	16
2111305	RL10	8	10	M17x1	20	37.8	6.5	15
2111307	RL10	8	12	M20x1	24	40.1	6	17.5
2111308	RL10	10	12	M20x1	24	40.8	8	19

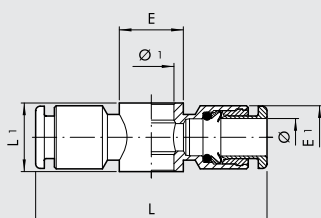
SINGLE RING (R13)



Code	Ref.	Ø	Ø 1	L	L1	E	E1
2012A02	R13	3	M5	12.9	9	9	7
2012A01	R13	3.17	M5	12.9	9	9	7
2012001	RL13	4	M5	20.2	9	9.5	9.5
2012002	RL13	4	1/8	21.3	15	14	9.5
2012003	R13	5	M5	23.8	9	9.5	12
2012004	R13	5	1/8	24.8	15	14	12
2012005	RL13	6	1/8	23	15	14	11.5
2012006	RL13	6	1/4	24.5	17	18	11.5
2012007	RL13	8	1/8	24.8	15	14	13.8
2012008	RL13	8	1/4	26.5	17	18	13.8
2012009	RL13	8	3/8	28.5	20	21	13.8
2012010	RL13	10	1/4	31.4	17	18	16.5
2012011	RL13	10	3/8	32.8	20	21	16
2012013	RL13	12	1/4	33	17	18	19.5
2012012	RL13	12	3/8	35.3	20	21	19.5
2012014	RL13	12	1/2	37	24	26	19.5

For the rods series D, see page 4-48

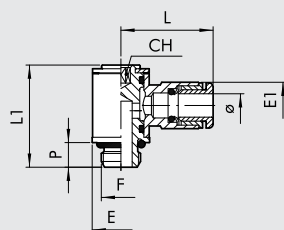
DUAL RING (R14)



Code	Ref.	Ø	Ø 1	L	L1	E	E1
2013001	RL14	4	M5	40.4	9	9.5	9.5
2013002	RL14	4	1/8	42.6	15	14	9.5
2013003	R14	5	M5	48	9	9.5	12
2013004	R14	5	1/8	49.5	15	14	13.5
2013005	RL14	6	1/8	46	15	14	11.5
2013006	RL14	6	1/4	49	17	18	11.5
2013007	RL14	8	1/8	49.6	15	14	13.8
2013008	RL14	8	1/4	53	17	18	13.8
2013009	RL14	8	3/8	57	20	21	13.8
2013010	RL14	10	1/4	62.8	17	18	16.5
2013011	RL14	10	3/8	65.6	20	21	16

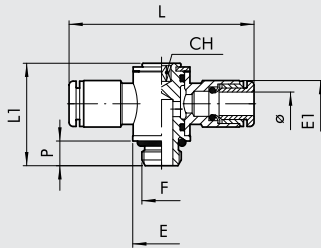
For the rods series D, see page 4-48

ROD, MALE SINGLE ROTARY RING (R15)



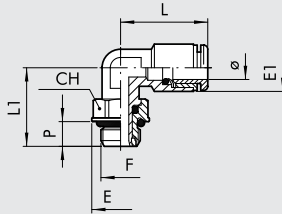
Code	Ref.	Ø	F	CH	P	L	L1	E	E1
2014101	R15	3	M3	1.5	3	12.2	13.2	5.8	5.8
2014102	R15	3.17	M3	1.5	3	12.2	13.2	5.8	5.8
2014103	R15	3	M5	2	3.5	12.7	13.7	5.8	7
2014104	R15	3.17	M5	2	3.5	12.7	13.7	5.8	7
2L14001	RL15	4	M5	2	4	20.2	18.4	9.5	9.5
2L14020	RL15	4	M7	3	5	20.2	18.5	9.8	9.5
2L14002	RL15	4	1/8	3	6	21.3	24.9	14	9.5
2014003	R15	5	M5	2	4	24	19	9.9	12
2014004	R15	5	1/8	3	6	25	27	14	12
2L14106	RL15	6	M5	2	4	23.5	18.4	9.5	11.3
2L14021	RL15	6	M7	3	5	23.5	18.5	9.8	11.3
2L14005	RL15	6	1/8	3	6	23	24.9	14	11.5
2L14007	RL15	6	1/4	4	8	24.5	29.4	18	11.5
2L14006	RL15	8	1/8	3	6	24.8	24.9	14	13.8
2L14008	RL15	8	1/4	4	8	26.5	29.4	18	13.8
2L14013	RL15	8	3/8	5	9	28.5	35.6	22	13.8
2L14009	RL15	10	1/4	4	8	31.4	29.4	18	16.5
2L14014	RL15	10	3/8	5	9	32.8	35.6	22	16
2014010	RL15	12	1/4	4	8	33	29.4	18	19.5
2014011	RL15	12	3/8	5	9	35.3	35.6	22	19.5
2014012	RL15	12	1/2	8	11	37	40.8	26	19.5

ROD, MALE DUAL ROTARY RING (R16)



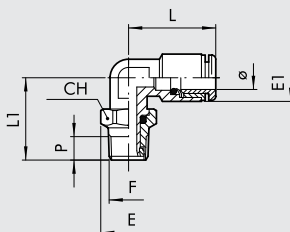
Code	Ref.	Ø	F	CH	P	L	L1	E	E1
2L15001	RL16	4	M5	2	4	40.4	18.4	9.5	9.5
2L15020	RL16	4	M7	3	5	40.4	18.5	9.8	9.5
2L15002	RL16	4	1/8	3	6	42.6	24.9	14	9.5
2015003	R16	5	M5	2	4	47.6	18.8	9.9	12
2015004	R16	5	1/8	3	6	49.5	27	14	13.5
2L15106	RL16	6	M5	2	4	47	18.4	9.5	11.3
2L15021	RL16	6	M7	3	5	47	18.5	9.8	11.3
2L15005	RL16	6	1/8	3	6	46	24.9	14	11.5
2L15007	RL16	6	1/4	4	8	49	29.4	18	11.5
2L15006	RL16	8	1/8	3	6	49.6	24.9	14	13.8
2L15008	RL16	8	1/4	4	8	53	29.4	18	13.8
2L15013	RL16	8	3/8	5	9	57	35.6	18	13.8
2L15009	RL16	10	1/4	4	8	62.8	29.4	22	16.5
2L15014	RL16	10	3/8	5	9	65.6	35.6	22	16
2015010	RL16	12	1/4	4	8	66	29.4	18	19.5
2015011	RL16	12	3/8	5	9	70.6	35.6	22	19.5
2015012	RL16	12	1/2	8	11	74	40.8	26	19.5

ROTARY ELBOW, MALE, CYLINDRICAL (R31)



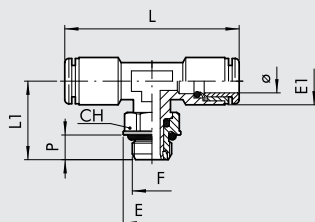
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L31001	RL31	4	M5	9	9.9	9.5	18.6	15.3	4
2L31002	RL31	4	1/8	12	14	9.5	18.6	19.1	6
2L31003	RL31	4	1/4	14	18	9.5	18.6	21.1	8
2031004	R31	5	M5	9	9.9	13.5	22.8	17.5	4
2031005	R31	5	1/8	12	14	13.5	22.8	21	6
2031006	R31	5	1/4	14	18	13.5	22.8	24.5	8
2L31007	RL31	6	M5	9	9.9	11.8	21.9	15.3	4
2L31008	RL31	6	1/8	12	14	11.8	21.9	19.1	6
2L31009	RL31	6	1/4	14	18	11.8	21.9	21.1	8
2L31010	RL31	8	1/8	12	14	13.5	25.4	19.1	6
2L31011	RL31	8	1/4	14	18	13.5	25.4	21.1	8
2L31012	RL31	8	3/8	17	22	13.8	23.6	27.1	9
2L31013	RL31	10	1/4	14	18	16	27.2	24.8	8
2L31014	RL31	10	3/8	17	22	16	27.2	27.1	9
2031015	RL31	10	1/2	22	26	16	27.2	30.7	11
2031016	RL31	12	1/4	14	18	20	30	25.6	8
2031017	RL31	12	3/8	17	22	20	30	27.1	9
2031018	RL31	12	1/2	22	26	20	30	30.7	11
2031019	RL31	14	1/2	22	26	21.3	33	32.3	11

ROTARY ELBOW, MALE, CONICAL (R31C)



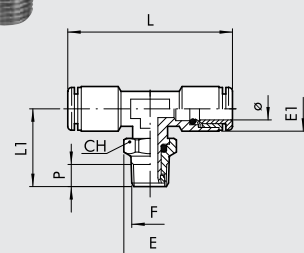
Code	Rif.	Ø	F	CH	E	E1	L	L1	P
2L31C02	RL31/C	4	1/8	12	13.3	9.5	18.6	19.8	6.2
2L31C03	RL31/C	4	1/4	14	15.4	9.5	18.6	22.6	8.5
2L31C08	RL31/C	6	1/8	12	13.3	11.8	21.9	19.8	6.2
2L31C09	RL31/C	6	1/4	14	15.4	11.8	21.9	22.6	8.5
2L31C10	RL31/C	8	1/8	12	13.3	13.5	25.4	19.8	6.2
2L31C11	RL31/C	8	1/4	14	15.4	13.5	25.4	23.6	8.5
2L31C12	RL31/C	8	3/8	17	19.2	13.8	23.6	27.1	9
2L31C13	RL31/C	10	1/4	14	15.4	16	27.2	26.3	8.5
2L31C14	RL31/C	10	3/8	17	19.2	16	27.2	27.1	9
2031C15	RL31/C	12	3/8	17	19.2	20	30	27.1	9
2031C16	RL31/C	12	1/2	22	24.6	20	30	31.9	11

CENTRAL TEE, MALE, CYLINDRICAL, ROTARY (R32)



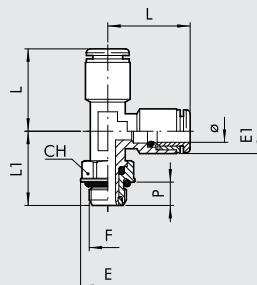
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L32001	RL32	4	M5	9	9.9	9.5	37.2	15.3	4
2L32002	RL32	4	1/8	12	14	9.5	37.2	19.1	6
2L32003	RL32	4	1/4	14	18	9.5	37.2	21.1	8
2032005	R32	5	1/8	12	14	13.5	45.6	19.1	6
2L32004	RL32	6	M5	9	9.9	11.8	43.8	15.3	4
2L32008	RL32	6	1/8	12	14	11.8	43.8	19.1	6
2L32009	RL32	6	1/4	14	18	11.8	43.8	21.1	8
2L32010	RL32	8	1/8	12	14	13.5	50.8	19.1	6
2L32011	RL32	8	1/4	14	18	13.5	50.8	21.1	8
2L32012	RL32	8	3/8	17	22	13.8	47.2	27.1	9
2L32013	RL32	10	1/4	14	18	16	44.4	21.8	8
2L32014	RL32	10	3/8	17	22	16	44.4	27.1	9
2032017	RL32	12	3/8	17	22	20	60	27.1	9
2032018	RL32	12	1/2	22	26	20	60	30.7	11
2032019	RL32	14	1/2	22	26	21.3	66	32.3	11

CENTRAL TEE, MALE, CONICAL, ROTARY (RL32C)



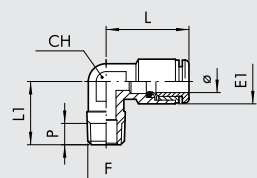
Code	Rif.	Ø	F	CH	E	E1	L	L1	P
2L32C02	RL32/C	4	1/8	12	13.3	9.5	37.2	19.8	6.2
2L32C03	RL32/C	4	1/4	14	15.4	9.5	37.2	22.6	8.5
2L32C08	RL32/C	6	1/8	12	13.3	11.8	43.8	19.8	6.2
2L32C09	RL32/C	6	1/4	14	15.4	11.8	43.8	22.6	8.5
2L32C10	RL32/C	8	1/8	12	13.3	13.5	50.8	19.8	6.2
2L32C11	RL32/C	8	1/4	14	15.4	13.5	50.8	23.6	8.5
2L32C12	RL32/C	8	3/8	17	19.2	13.8	47.2	27.1	9
2L32C13	RL32/C	10	1/4	14	15.4	16	44.4	26.3	8.5
2L32C14	RL32/C	10	3/8	17	19.2	16	44.4	27.1	9

LATERAL TEE, MALE, CYLINDRICAL, ROTARY (R38)



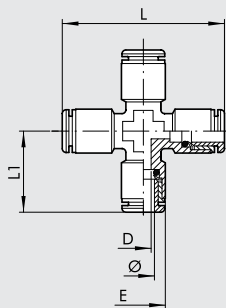
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L38002	RL38	4	1/8	12	14	9.5	18.6	19.1	6
2038005	R38	5	1/8	12	14	13.5	22.8	19.1	6
2L38008	RL38	6	1/8	12	14	11.5	21.9	19.1	6
2L38009	RL38	6	1/4	14	18	11.5	21.9	21.1	8
2L38010	RL38	8	1/8	12	14	13.5	25.4	19.1	6
2L38011	RL38	8	1/4	14	18	13.5	25.4	22.1	8
2L38013	RL38	10	1/4	14	18	16	27.2	21.8	8
2L38014	RL38	10	3/8	17	22	16	27.2	27.1	9
2038015	RL38	12	3/8	17	22	20	30	27.1	9
2038016	RL38	12	1/2	22	26	20	30	30.7	11

ELBOW, MALE, CONICAL (R39C)



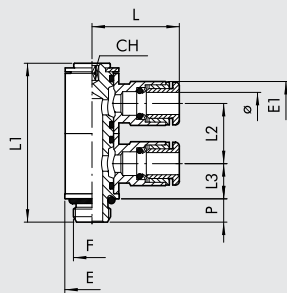
Code	Rif.	Ø	F	CH	E1	L	L1	P
2L39C02	RL39/C	4	1/8	10	9.5	18.6	16	6.2
2L39C08	RL39/C	6	1/8	10	11.8	21.9	16	6.2
2L39C09	RL39/C	6	1/4	10	11.8	21.9	18.5	8.5
2039Z07	RL39/Z	6	12x1 conical	10	11.8	21.9	17.5	7
2039Z08	RL39/Z	6	12x1.25 conical	10	11.8	21.9	17.5	7
2L39C10	RL39/C	8	1/8	10	13.5	25.4	16	6.2
2L39C11	RL39/C	8	1/4	10	13.5	25.4	18.5	8.5
2L39C13	RL39/C	10	1/4	14	16	27.2	22	8.5

CROSS FITTING (RL40)



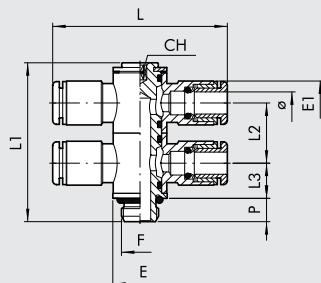
Code	Ref.	Ø	D	E	L	L1
2L40001	RL40	4	3	9.5	37.2	18.6
2L40003	RL40	6	4.5	11.3	43.8	21.9
2L40004	RL40	8	6.5	14	50.8	25.4

DUAL ROD SINGLE ROTARY RINGS (R50)



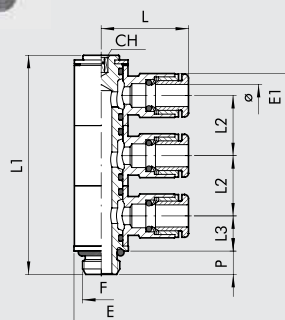
Code	Ref.	Ø	F	CH	E	E1	L	L1	L2	L3	P
2L50001	RL50	4	M5	2	9.5	9.5	20.2	30.3	11.5	6.8	4
2L50002	RL50	4	1/8	3	14	9.5	20.2	40.9	15.5	9.1	6
2033002	R33	5	1/8	5	14	12	25	42	15	10.5	6
2L50007	RL50	6	M5	2	9.5	11.3	23.5	30.3	11.5	6.8	4
2L50008	RL50	6	1/8	3	14	11.3	23.5	40.9	15.5	9.1	6
2L50009	RL50	6	1/4	4	18	11.5	23	47	17.2	10.2	8
2L50010	RL50	8	1/8	3	14	13.8	24.8	40.9	15.5	9.1	6
2L50011	RL50	8	1/4	4	18	13.8	26.5	47	17.2	10.2	8
2L50013	RL50	10	1/4	4	18	16.5	31.4	47	17.2	10.2	8

DUAL ROD DUAL ROTARY RINGS (RL51)



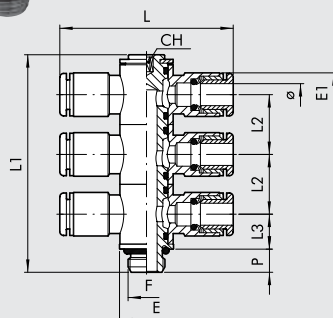
Code	Ref.	Ø	F	CH	E	E1	L	L1	L2	L3	P
2L51001	RL51	4	M5	2	9.5	9.5	40.4	30.3	11.5	6.8	4
2L51002	RL51	4	1/8	3	14	9.5	40.4	40.9	15.5	9.1	6
2L51007	RL51	6	M5	2	9.5	11.3	47	30.3	11.5	6.8	4
2L51008	RL51	6	1/8	3	14	11.3	47	40.9	15.5	9.1	6
2L51009	RL51	6	1/4	4	18	11.5	46	47	17.2	10.2	8
2L51010	RL51	8	1/8	3	14	13.8	49.6	40.9	15.5	9.1	6
2L51011	RL51	8	1/4	4	18	13.8	53	47	17.2	10.2	8
2L51013	RL51	10	1/4	4	18	16.5	62.8	47	17.2	10.2	8

TRIPLE ROD SINGLE ROTARY RINGS (RL52)



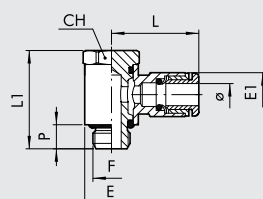
Code	Ref.	Ø	F	CH	E	E1	L	L1	L2	L3	P
2L52002	RL52	4	1/8	3	14	9.5	20.2	56.7	15.5	9.1	6
2L52008	RL52	6	1/8	3	14	11.3	23.5	56.7	15.5	9.1	6
2L52009	RL52	6	1/4	4	18	11.5	23	64.3	17.2	10.2	8
2L52010	RL52	8	1/8	3	14	13.8	24.8	56.7	15.5	9.1	6
2L52011	RL52	8	1/4	4	18	13.8	26.5	64.3	17.2	10.2	8
2L52013	RL52	10	1/4	4	18	16.5	31.4	64.3	17.2	10.2	8

TRIPLE ROD DUAL ROTARY RINGS (RL53)



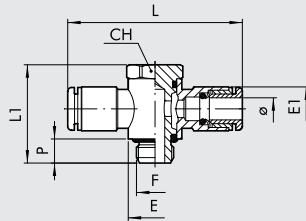
Code	Ref.	Ø	F	CH	E	E1	L	L1	L2	L3	P
2L53002	RL53	4	1/8	3	14	9.5	40.2	56.7	15.5	9.1	6
2L53008	RL53	6	1/8	3	14	11.3	47	56.7	15.5	9.1	6
2L53009	RL53	6	1/4	4	18	11.5	46	64.3	17.2	10.2	8
2L53010	RL53	8	1/8	3	14	13.8	49.6	56.7	15.5	9.1	6
2L53011	RL53	8	1/4	4	18	13.8	53	64.3	17.2	10.2	8
2L53013	RL53	10	1/4	4	18	16.5	62.8	64.3	17.2	10.2	8

MALE ROD, SINGLE SWIVEL RING (RL54)



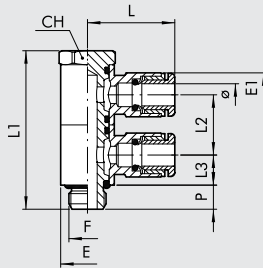
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L54001	RL54	4	M5	9	9.5	9.5	20.2	18.7	4.5
2L54002	RL54	4	1/8	13	14	9.5	21.3	25.3	6.2
2L54007	RL54	6	M5	9	9.5	11.3	23.5	18.7	4.5
2L54008	RL54	6	1/8	13	14	11.5	23	25.3	6.2
2L54009	RL54	6	1/4	16	18	11.5	24.5	29.2	8
2L54010	RL54	8	1/8	13	14	13.8	24.8	25.3	6.2
2L54011	RL54	8	1/4	16	18	13.8	26.5	29.2	8
2L54012	RL54	8	3/8	20	21	13.8	28.5	35.4	9
2L54013	RL54	10	1/4	16	18	16.5	31.4	29.2	8
2L54014	RL54	10	3/8	20	21	16	32.8	35.4	9
2L54018	RL54	12	1/4	16	18	19.5	33	29.2	8
2L54016	RL54	12	3/8	20	21	19.5	35.3	35.4	9
2L54017	RL54	12	1/2	25	26	19.5	37	40	11

MALE ROD, DUAL SWIVEL RING (RL55)



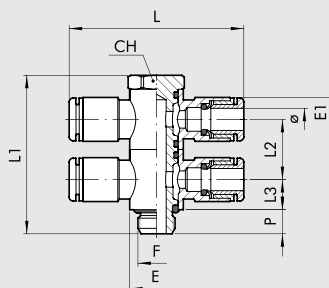
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L55001	RL55	4	M5	9	9.5	9.5	40.4	18.7	4.5
2L55002	RL55	4	1/8	13	14	9.5	42.6	25.3	6
2L55007	RL55	6	M5	9	9.5	11.3	47	18.7	4.5
2L55008	RL55	6	1/8	13	14	11.5	46	25.3	6
2L55009	RL55	6	1/4	16	18	11.5	49	29.2	8
2L55010	RL55	8	1/8	13	14	13.8	49.6	25.3	6
2L55011	RL55	8	1/4	16	18	13.8	53	29.2	8
2L55012	RL55	8	3/8	20	21	13.8	57	35.4	9
2L55013	RL55	10	1/4	16	18	16.5	62.8	29.2	8
2L55014	RL55	10	3/8	20	21	16	65.6	35.4	9
2L55018	RL55	12	1/4	16	18	19.5	66	29.2	8
2L55016	RL55	12	3/8	20	21	19.5	70.6	35.4	9
2L55017	RL55	12	1/2	25	26	19.5	74	40	11

DUAL ROD, MALE SINGLE SWIVEL RINGS (RL56)



Code	Ref.	Ø	F	CH	E	E1	L	L1	L2	L3	P
2L56001	RL56	4	M5	9	9.5	9.5	20.2	30.2	11.5	5.8	4.5
2L56002	RL56	4	1/8	13	14	9.5	21.3	41	15.5	7.8	6
2L56007	RL56	6	M5	9	9.5	11.3	23.5	30.2	11.5	5.8	4.5
2L56008	RL56	6	1/8	13	14	11.5	23	41	15.5	7.8	6
2L56009	RL56	6	1/4	16	18	11.5	24.5	46.4	17.2	8.6	8
2L56010	RL56	8	1/8	13	14	13.8	24.8	41	15.5	7.8	6
2L56011	RL56	8	1/4	16	18	13.8	26.5	46.4	17.2	8.6	8
2L56012	RL56	8	3/8	20	21	13.8	28.5	56.8	21.4	10.7	9
2L56013	RL56	10	1/4	16	18	16.5	31.4	46.4	17.2	8.6	8
2L56014	RL56	10	3/8	20	21	16	32.8	56.8	21.4	10.7	9
2L56016	RL56	12	3/8	20	21	19.5	35.3	56.8	21.4	10.7	9
2L56017	RL56	12	1/2	25	26	19.5	37	64	24	12	11

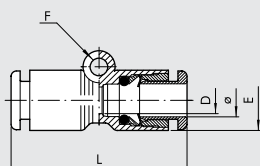
DUAL ROD, MALE DUAL SWIVEL RINGS (RL57)



Code	Ref.	Ø	F	CH	E	E1	L	L1	L2	L3	P
2L57001	RL57	4	M5	9	9.5	9.5	40.4	30.2	11.5	5.8	4.5
2L57002	RL57	4	1/8	13	14	9.5	42.6	41	15.5	7.8	6
2L57007	RL57	6	M5	9	9.5	11.3	47	30.2	11.5	5.8	4.5
2L57008	RL57	6	1/8	13	14	11.5	46	41	15.5	7.8	6
2L57009	RL57	6	1/4	16	18	11.5	49	46.4	17.2	8.6	8
2L57010	RL57	8	1/8	13	14	13.8	49.6	41	15.5	7.8	6
2L57011	RL57	8	1/4	16	18	13.8	53	46.4	17.2	8.6	8
2L57012	RL57	8	3/8	20	21	13.8	57	56.8	21.4	10.7	9
2L57013	RL57	10	1/4	16	18	16.5	62.8	46.4	17.2	8.6	8
2L57014	RL57	10	3/8	20	21	16	65.6	56.8	21.4	10.7	9
2L57016	RL57	12	3/8	20	21	19.5	70.6	56.8	21.4	10.7	9
2L57017	RL57	12	1/2	25	26	19.5	74	64	24	12	11

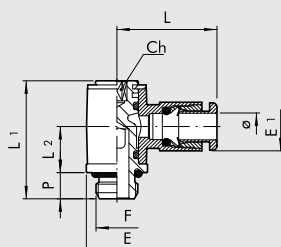
TECHNOPOLYMER FITTINGS

STRAIGHT, INTERMEDIATE, TECHNOPOLYMER (R19)



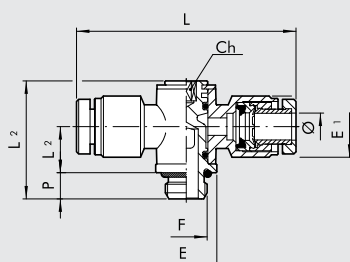
Code	Ref.	Ø	E	L	D	F
2019001	RL19	4	9.2	30.4	3	3.3
2019002	R19	5	14	33.5	4	–
2019003	RL19	6	11.3	33	5	3.3
2019004	RL19	8	13.8	36.2	6.5	3.3
2019005	RL19	10	16	38	8.5	3.3
2019006	RL19	12	19.5	40	10.5	3.3

MALE ROD, SINGLE ROTARY RING, TECHNOPOLYMER (R20)



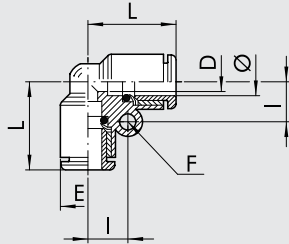
Code	Ref.	Ø	F	CH	P	L	L1	L2	E	E1
2020001	RL20	4	M5	2	4	18.7	18.4	9.1	8	9.2
2020002	RL20	4	1/8	3	6	21	24.9	12.3	14	9.2
2020003	R20	5	M5	2	4	21.5	18.8	8.5	9.9	13.5
2020004	R20	5	1/8	3	6	23	27	10.5	14	13.5
2020016	RL20	6	M5	2	4	20.8	18.4	9.1	8	11.3
2020005	RL20	6	1/8	3	6	22.3	24.9	12.3	14	11.3
2020007	RL20	6	1/4	4	8	24.3	29.4	14.3	18	11.3
2020006	RL20	8	1/8	3	6	25.6	24.9	12.3	14	13.8
2020008	RL20	8	1/4	4	8	27.2	29.4	14.3	18	13.8
2020009	RL20	10	1/4	4	8	28.6	29.4	14.3	18	16
2L20017	RL20	10	3/8	5	9	30.5	35.6	15.3	22	16
2020010	RL20	12	1/4	4	8	31	29.4	14.3	18	19.5
2020011	RL20	12	3/8	5	9	32.4	35.6	17.5	22	19.5
2020012	RL20	12	1/2	8	11	34	40.8	19.2	26	19.5

MALE ROD, DUAL ROTARY RING, TECHNOPOLYMER (R20/A)



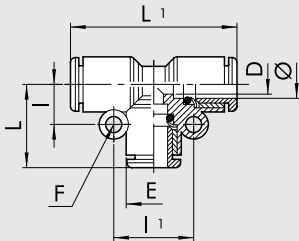
Code	Ref.	Ø	F	CH	P	L	L1	L2	E	E1
2020A01	R20/A	4	M5	2	4	40	16.8	6.5	9.9	10.9
2020A02	R20/A	4	1/8	3	6	45	27	10.5	14	12.5
2020A03	R20/A	5	M5	2	4	43	18.8	8.5	9.9	13.5
2020A04	R20/A	5	1/8	3	6	46	27	10.5	14	13.5
2020A05	R20/A	6	1/8	3	6	45	27	10.5	14	15
2020A07	R20/A	6	1/4	4	8	48	31.5	11.5	18	15
2020A06	R20/A	8	1/8	3	6	51	27	10.5	14	16.3
2020A08	R20/A	8	1/4	4	8	54	31.5	11.5	18	16.3
2020A09	R20/A	10	1/4	4	8	64	31.5	11.5	18	18.5
2020A10	R20/A	12	1/4	4	8	64	31.5	11.5	18	21
2020A11	R20/A	12	3/8	5	9	68	36	13.5	22	21
2020A12	R20/A	12	1/2	8	11	72	42	16.2	26	21

ELBOW, INTERMEDIATE, TECHNOPOLYMER (R21)



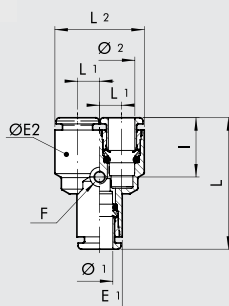
Code	Ref.	Ø	L	D	E	I	F
2L21001	RL21	4	16.7	2.5	9.2	7.2	3.3
2021002	R21	5	20	3.5	13.5	–	–
2L21003	RL21	6	19	4.2	11.3	8.2	3.3
2L21004	RL21	8	21.4	6.2	13.8	9.6	3.3
2021005	RL21	10	24	8.5	16	10.9	3.3
2021006	RL21	12	25.8	10.5	19.5	12.5	3.3

INTERMEDIATE TEE, TECHNOPOLYMER (R22)



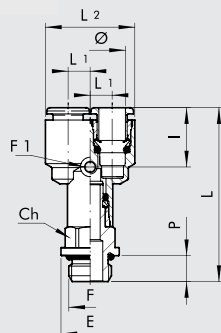
Code	Ref.	Ø	L	L1	D	E	I	I1	F
2L22001	RL22	4	16.7	33.4	2.5	9.2	7.2	14.4	3.3
2022002	R22	5	20	40	3.5	13.5	–	–	–
2L22003	RL22	6	19	38	4.2	11.3	8.2	16.4	3.3
2L22004	RL22	8	21.4	42.8	6.2	13.8	9.6	19.2	3.3
2022005	RL22	10	24	48	8.5	16	10.9	21.8	3.3
2022006	RL22	12	25.8	51.6	10.5	19.5	12.5	25	3.3

WYE (R23)



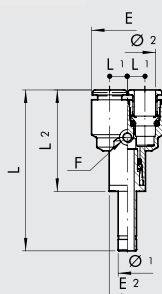
Code	Ref.	Ø1	Ø2	L	L1	E1	ØE2	I	F	L2
2023001	RL23	4	4	32.9	5	9.2	9.2	14.8	3.3	19.2
2023002	R23	5	5	35.5	6.5	13.5	13.5	–	–	26.5
2023003	RL23	6	6	35.5	5.8	11.3	11.3	15	3.3	22.8
2023004	RL23	8	8	39.5	7.2	13.8	13.8	15.8	3.3	28.2
2L23005	RL23	10	10	43.1	8.3	16	16	17.4	3.3	32.6
2L23006	RL23	12	12	48	10	19.5	19.5	18	3.3	39.5
2L23301	RL23	6	4	34.2	5	11.3	9.2	14.8	3.3	19.2
2L23303	RL23	8	6	37.8	5.8	13.8	11.3	15	3.3	22.8
2L23306	RL23	10	8	40.4	7.2	16	13.8	15.8	3.3	28.2
2L23309	RL23	12	10	44.2	8.3	19.5	16	17.4	3.3	32.6

Y TECHNOPOLYMER, THREADED INPUT (RL23/M)



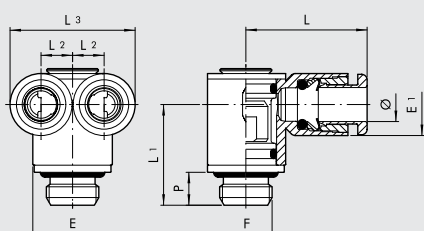
Code	Rif.	Ø	F	L	L1	L2	I	CH	P	E	F1
2L23401	RL23/M	4	M5	38.7	5	19.2	14.8	9	4	9.9	3.3
2L23402	RL23/M	4	1/8	42.6	5	19.2	14.8	12	6	14	3.3
2L23403	RL23/M	4	1/4	46.6	5	19.2	14.8	14	8	18	3.3
2L23406	RL23/M	6	1/8	44.9	5.75	22.8	15	12	6	14	3.3
2L23407	RL23/M	6	1/4	47.9	5.75	22.8	15	14	8	18	3.3
2L23409	RL23/M	8	1/8	48.4	7.2	28.2	15.8	14	6	15	3.3
2L23410	RL23/M	8	1/4	52.8	7.2	28.2	15.8	14	8	18	3.3
2L23412	RL23/M	8	3/8	54.4	7.2	28.2	15.8	17	9	22	3.3
2L23413	RL23/M	10	1/4	53.8	8.3	32.6	17.4	16	8	18	3.3
2L23415	RL23/M	10	3/8	56	8.3	32.6	17.4	17	9	20	3.3
2L23419	RL23/M	12	3/8	62	10	39.5	18	19	9	22	3.3
2L23420	RL23/M	12	1/2	62.3	10	39.5	18	22	11	26	3.3

Y BRANCH WITH ADAPTER, TECHNOPOLYMER (R24)



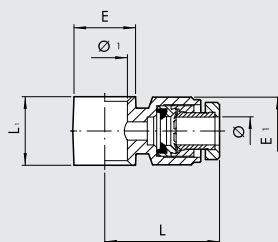
Code	Ref.	Ø1	Ø2	L	L1	L2	E1	E2	I	F
2024001	RL24	4	4	46.9	5	29.7	9.2	9.2	14.8	3.3
2024003	RL24	6	6	49.7	5.75	32	11.3	11.3	15	3.3
2L24004	RL24	8	8	55.1	7.2	35.9	13.8	13.8	15.8	3.3
2L24005	RL24	10	10	63.1	8.3	39.2	16	16	17.4	3.3
2L24006	RL24	12	12	70.5	10	44	19.5	19.5	18	3.3
2L24301	RL24	6	4	48.4	5	30.7	9.2	11.3	14.8	3.3
2L24303	RL24	8	6	53.4	5.75	34.2	11.3	13.8	15	3.3
2L24306	RL24	10	8	60.4	7.2	36.6	13.8	16	15.8	3.3
2L24309	RL24	12	10	66.7	8.3	40.2	16	19.5	17.4	3.3

TECHNOPOLYMER PARALLEL Y, THREADED INPUT (RL25)



Code	Ref.	Ø	F	L	L1	L2	L3	E	E1	CH	P
2L25001	RL25	4	M5	17.7	13.1	5	19.2	8	9.2	2	4
2L25002	RL25	4	M7	17.7	14.6	5	19.2	9.8	9.2	3	5
2L25003	RL25	4	1/8	17.7	16.5	5	19.2	13	9.2	3	6
2L25004	RL25	6	1/8	23	18.3	5.75	22.8	14	11.3	3	6
2L25005	RL25	6	1/4	23	21.2	5.75	22.8	16.4	11.3	4	8
2L25008	RL25	8	1/4	25.8	22.2	7.2	28.2	18	13.8	4	8
2L25009	RL25	8	3/8	25.8	23.8	7.2	28.2	20	13.8	5	9

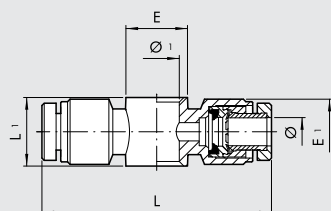
SINGLE RING, TECHNOPOLYMER (R28)



Code	Ref.	Ø	Ø 1	L	L1	E	E1
2012102	R28	4	1/8	22.5	17	15	12.5
2012104	R28	5	1/8	23	17	15	13.5
2012106	R28	6	1/8	22.5	17	15	15
2012107	R28	6	1/4	24	19	18	15
2012108	R28	8	1/8	25.5	17	15	16.5
2012109	R28	8	1/4	27	19	18	16.5
2012110	R28	8	3/8	29	22	21.5	16.5
2012111	R28	10	1/4	32	19	18	18.5
2012112	R28	10	3/8	32	22	21.5	18.5
2012113	R28	12	1/4	32	19	18	21
2012114	R28	12	3/8	34	22	21.5	21
2012115	R28	12	1/2	36	24	26	21

For the rods series D, see page 4-48

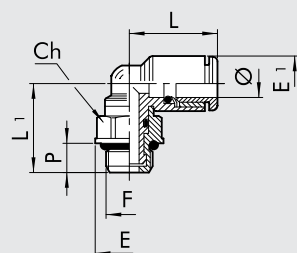
DUAL RING, TECHNOPOLYMER (R29)



Code	Ref.	Ø	Ø 1	L	L1	E	E1
2013102	R29	4	1/8	45	17	15	12.5
2013104	R29	5	1/8	46	17	15	13.5
2013106	R29	6	1/8	45	17	15	15
2013107	R29	6	1/4	48	19	18	15
2013108	R29	8	1/8	51	17	15	16.5
2013109	R29	8	1/4	54	19	18	16.5
2013110	R29	8	3/8	58	22	21.5	16.5
2013111	R29	10	1/4	64	19	18	18.5
2013112	R29	10	3/8	64	22	21.5	18.5
2013113	R29	12	1/4	64	19	18	21
2013114	R29	12	3/8	68	22	21.5	21
2013115	R29	12	1/2	72	24	26	21

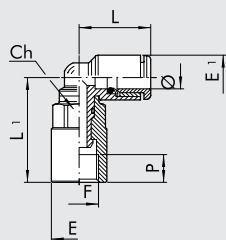
For the rods series D, see page 4-48

ROTARY ELBOW, MALE, TECHNOPOLYMER (RL 34)



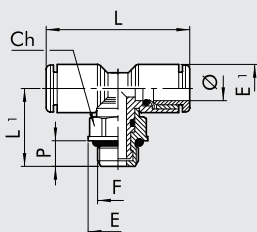
Code	Ref.	Ø	F	CH	P	L	L1	E	E1
2L34001	RL34	4	M5	8	4	16.4	15.2	9	9.2
2L34020	RL34	4	M7	8	5	16.4	16.2	9.8	9.2
2L34002	RL34	4	1/8	12	6	16.4	17.2	14	9.2
2L34003	RL34	4	1/4	14	8	16.4	20.1	18	9.2
2L34006	RL34	6	M5	8	4	18	16.3	9	11.3
2L34021	RL34	6	M7	9	5	19	17.5	9.9	11.3
2L34007	RL34	6	1/8	12	6	19	18.3	14	11.3
2L34008	RL34	6	1/4	14	8	19	21.2	18	11.3
2L34009	RL34	8	1/8	12	6	20.2	19.5	14	13.8
2L34010	RL34	8	1/4	14	8	20.2	22.4	18	13.8
2L34011	RL34	8	3/8	17	9	20.2	24.4	22	13.8
2L34013	RL34	10	1/4	14	8	23.3	23.5	18	16
2L34014	RL34	10	3/8	17	9	23.3	25.6	22	16
2L34016	RL34	12	3/8	17	9	25.2	27.3	22	19.5
2L34017	RL34	12	1/2	19	11	25.2	30.3	26	19.5

ELBOW, FEMALE, ROTARY, TECHNOPOLYMER (RL34/F)



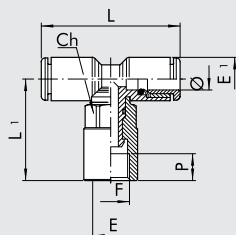
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L34F01	RL34/F 4	M5	8	9	9.2	16.4	15.3	4	
2L34F05	RL34/F 4	1/8	12	14	9.2	16.4	20.9	7	
2L34F06	RL34/F 6	M5	8	9	11.3	18	16.4	4	
2L34F07	RL34/F 6	1/8	12	14	11.3	19	26.5	7	
2L34F08	RL34/F 6	1/4	14	17	11.3	19	28.2	8	
2L34F09	RL34/F 8	1/8	12	14	13.8	20.2	27.7	7	
2L34F10	RL34/F 8	1/4	14	17	13.8	20.2	29.4	8	
2L34F13	RL34/F 10	1/4	14	17	16	23.3	33	8	
2L34F14	RL34/F 10	3/8	17	21	16	23.3	38	10	
2L34F16	RL34/F 12	3/8	17	21	19.5	25.2	40.3	10	
2L34F17	RL34/F 12	1/2	19	23.8	19.5	25.2	42.8	11	

CENTRAL TEE, MALE, TECHNOPOLYMER (RL35)



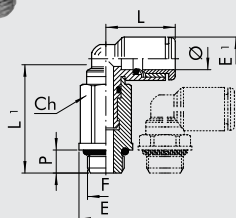
Code	Ref.	Ø	F	CH	P	L	L1	E	E1
2L35001	RL35 4	M5	8	4	31	32.8	9	9.2	
2L35020	RL35 4	M7	8	5	31	32.8	9.8	9.2	
2L35002	RL35 4	1/8	12	6	31	32.8	14	9.2	
2L35003	RL35 4	1/4	14	8	31	32.8	18	9.2	
2L35006	RL35 6	M5	8	4	34.2	36	9	11.3	
2L35007	RL35 6	1/8	12	6	36.2	38	14	11.3	
2L35008	RL35 6	1/4	14	8	36.2	38	18	11.3	
2L35009	RL35 8	1/8	12	6	38.6	40.4	14	13.8	
2L35010	RL35 8	1/4	14	8	38.6	40.4	18	13.8	
2L35011	RL35 8	3/8	17	9	38.6	40.4	22	13.8	
2L35013	RL35 10	1/4	14	8	46.6	23.5	18	16	
2L35014	RL35 10	3/8	17	9	46.6	25.6	22	16	
2L35016	RL35 12	3/8	17	9	50.4	27.3	22	19.5	
2L35017	RL35 12	1/2	19	11	50.4	30.3	26	19.5	

CENTRAL TEE, FEMALE, ROTARY, TECHNOPOLYMER (RL35/F)



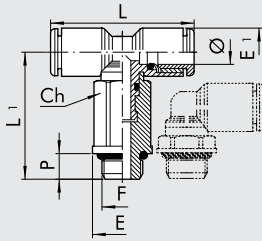
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2L35F01	RL35/F 4	M5	8	9	9.2	32.8	15.3	4	
2L35F06	RL35/F 6	M5	8	9	11.3	36	16.4	4	
2L35F07	RL35/F 6	1/8	12	14	11.3	38	26.5	7	
2L35F08	RL35/F 6	1/4	14	17	11.3	38	28.2	8	
2L35F09	RL35/F 8	1/8	12	14	13.8	40.4	27.7	7	
2L35F10	RL35/F 8	1/4	14	17	13.8	40.4	29.4	8	
2L35F13	RL35/F 10	1/4	14	17	16	46.6	33	8	
2L35F14	RL35/F 10	3/8	17	21	16	46.6	38	10	
2L35F16	RL35/F 12	3/8	17	21	19.5	50.4	40.3	10	
2L35F17	RL35/F 12	1/2	19	23.8	19.5	50.4	42.8	11	

ROTARY ELBOW, MALE, EXTENDED, TECHNOPOLYMER (RL 36)



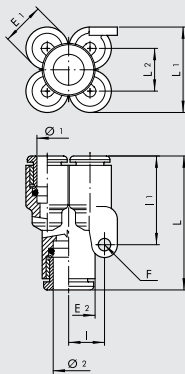
Code	Ref.	Ø	F	CH	P	L	L1	E	E1
2L36001	RL36 4	M5	8	4	16.4	26.7	9	9.2	
2L36020	RL36 4	M7	8	5	16.4	27.7	9.8	9.2	
2L36002	RL36 4	1/8	12	6	16.4	25.3	14	9.2	
2L36006	RL36 6	M5	8	4	18	27.8	9	11.3	
2L36021	RL36 6	M7	9	5	18	29.3	9.9	11.3	
2L36007	RL36 6	1/8	12	6	19	30.9	14	11.3	
2L36008	RL36 6	1/4	14	8	19	33.2	18	11.3	
2L36009	RL36 8	1/8	12	6	20.2	32.1	14	13.8	
2L36010	RL36 8	1/4	14	8	20.2	34.4	18	13.8	
2L36012	RL36 10	1/4	14	8	23.3	38	18	16	

CENTRAL TEE, MALE, ROTARY, EXTENDED, TECHNOPOLYMER (RL37)



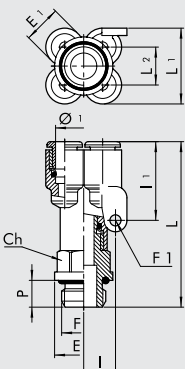
Code	Ref.	Ø	F	CH	P	L	L1	E	E1
2L37001	RL37	4	M5	8	4	32.8	26.7	9	9.2
2L37020	RL37	4	M7	8	5	32.8	27.5	9.8	9.2
2L37002	RL37	4	1/8	12	6	32.8	25.3	14	9.2
2L37006	RL37	6	M5	8	4	36	27.8	9	11.3
2L37007	RL37	6	1/8	12	6	38	30.9	14	11.3
2L37008	RL37	6	1/4	14	8	38	33.2	18	11.3
2L37009	RL37	8	1/8	12	6	40.4	32.1	14	13.8
2L37010	RL37	8	1/4	14	8	40.4	34.4	18	13.8
2L37012	RL37	10	1/4	14	8	46.6	38	18	16

DUAL Y BRANCH TECHNOPOLYMER (RL42)



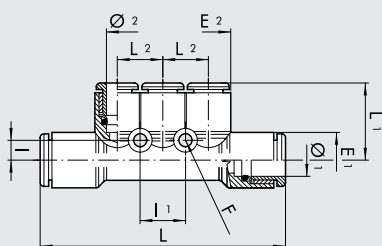
Code	Ref.	Ø1	Ø2	E1	E2	L	L1	L2	I	I1	F
2L42001	RL42	4	4	9.2	9.2	28.8	17.9	8.7	8	21.3	3.3
2L42002	RL42	4	6	9.2	11.3	31.3	17.9	8.7	8	21.3	3.3
2L42004	RL42	6	6	11.3	11.3	33.4	22.6	11.3	9.5	25.6	3.3
2L42005	RL42	6	8	11.3	14	34.8	22.6	11.3	9.5	25.6	3.3

DUAL Y BRANCH TECHNOPOLYMER, THREADED INPUT (RL43)



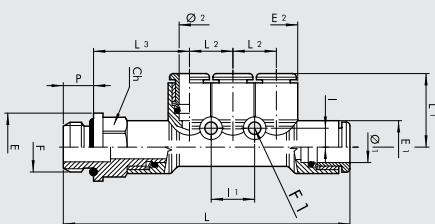
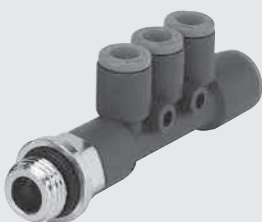
Code	Ref.	Ø1	F	E1	E	CH	P	L	L1	L2	I	I1	F1
2L43001	RL43	4	M5	9.2	8	9	4	35.5	17.9	8.7	8	21.3	3.3
2L43002	RL43	4	1/8	9.2	14	12	6	41.6	17.9	8.7	8	21.3	3.3
2L43003	RL43	4	1/4	9.2	18	14	8	44.6	17.9	8.7	8	21.3	3.3
2L43008	RL43	6	1/8	11.3	14	12	6	43.7	22.6	11.3	9.5	25.6	3.3
2L43009	RL43	6	1/4	11.3	18	14	8	46.7	22.6	11.3	9.5	25.6	3.3

MULTIPLE MANIFOLD, TECHNOPOLYMER (RL44)



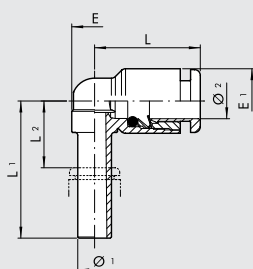
Code	Ref.	Ø1	Ø2	E1	E2	L	L1	L2	I	I1	F
2L44001	RL44	6	4	11.3	9.2	53.2	17.2	9.4	4.3	9.4	3.3
2L44003	RL44	8	6	14	11.3	61.4	19.6	11.5	5	11.5	3.3

MULTIPLE MANIFOLD, INPUT, THREADED, TECHNOPOLYMER (RL45)



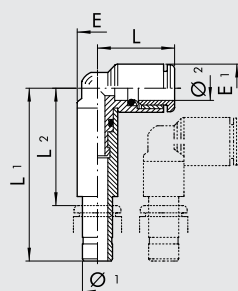
Code	Ref.	F	Ø1	Ø2	E1	E2	E	CH	P	L	L1	L2	L3	I	I1	F1
2L45001	RL45	1/8	6	4	11.3	9.2	14	12	6	63.5	17.2	9.4	21.5	4.3	9.4	3.3
2L45002	RL45	1/4	6	4	11.3	9.2	18	14	8	66.5	17.2	9.4	22.5	4.3	9.4	3.3
2L45007	RL45	1/8	8	6	14	11.3	15	14	6	71.2	19.6	11.5	23	5	11.5	3.3
2L45008	RL45	1/4	8	6	14	11.3	18	14	8	75.6	19.6	11.5	25.4	5	11.5	3.3
2L45009	RL45	3/8	8	6	14	11.3	22	17	9	77.2	19.6	11.5	26	5	11.5	3.3

PLUG-IN ELBOWS (RL46)



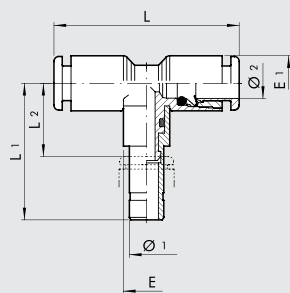
Code	Ref.	Ø1	Ø2	L	L1	L2	E	E1
2L46001	RL46	4	4	16	22.5	8.1	6.8	9.2
2L46002	RL46	6	6	18.5	24	8.4	8	11.3
2L46003	RL46	8	8	21.2	28.5	11.3	10	13.8
2L46004	RL46	10	10	23.3	32	13.3	12.5	16

EXTENDED PLUG-IN ELBOWS (RL47)



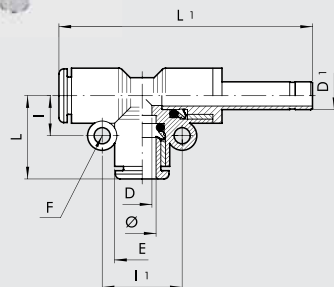
Code	Ref.	Ø1	Ø2	L	L1	L2	E	E1
2L47001	RL47	4	4	15.5	36.9	23.4	7.7	9.2
2L47002	RL47	6	6	18.1	40.6	25.9	9.3	11.3
2L47003	RL47	8	8	19.3	44.9	28.8	9.7	13.8

DOUBLE ELBOW (RL48)



Code	Ref.	Ø1	Ø2	L	L1	L2	E	E1
2L48001	RL48	4	4	32	22.5	8.1	6.8	9.2
2L48002	RL48	6	6	37	37.5	16.4	9.7	11.3
2L48003	RL48	8	8	42.4	28.5	11.3	10	13.8
2L48004	RL48	10	10	46.6	46	27.7	14	16

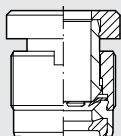
DOUBLE LATERAL ELBOW (RL49)



Code	Ref.	Ø	L	L1	I	I1	E	D	D1	F
2L49001	RL49	4	16.7	47.4	7.2	14.4	9.2	2.5	4	3.3
2L49003	RL49	6	19	52.5	8.2	16.4	11.3	4.2	6	3.3
2L49004	RL49	8	21.4	58.4	9.6	19.2	13.8	6.2	8	3.3
2L49005	RL49	10	24.1	68.2	10.9	21.8	16	8.5	10	3.3
2L49006	RL49	12	25.8	74.1	12.5	25	19.5	10.5	12	3.3

CARTRIDGES AND ACCESSORIES

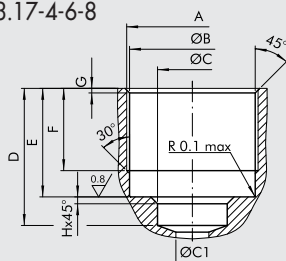
BRASS CARTRIDGE WITH THREAD (R26)



Code	Ref.	Ø	Brace of serration on centers in plastic material [Nm]	Brace of serration on metallic centers [Nm]
SERIES R				
2026A02	R26	3	0.6	0.8
2026A01	R26	3.17	0.6	0.8
2026001	R26	4	0.8	1
2026002	R26	5	0.8	1.5
2026003	R26	6	0.8	1.2
2026004	R26	8	1	1.8
2026005	R26	10	0.8	2
2026006	R26	12	0.8	2

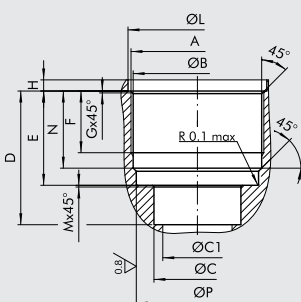
CARTRIDGE SLOT R26

Ø 3-3.17-4-6-8



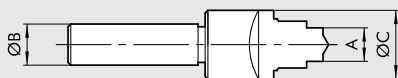
Ø	A	ØB	ØC	ØC1	D	E	F
3-3.17	M7x0.75	6.5 ^{+0.1} ₋₀	4.5 ^{+0.12} ₋₀	4 max	10.5 ^{+0.3} ₋₀	9.5 ^{+0.1} _{-0.3}	7 ^{+0.20} ₋₀
4	M9.5x0.75	9 ^{+0.10} ₋₀	4.1 ^{+0.10} ₋₀	3 max	12 ⁺⁰ _{-0.20}	9.5 ^{+0.15} _{-0.05}	7.5 ^{+0.20} ₋₀
6	M11.5x0.75	11 ^{+0.10} ₋₀	6.1 ^{+0.10} ₋₀	5 max	12 ^{+0.1} ₋₀	9.5 ^{+0.1} ₋₀	7.5 ^{+0.20} ₋₀
8	M13.5x0.75	13 ^{+0.10} ₋₀	8.1 ^{+0.10} ₋₀	7 max	15 ⁺⁰ _{-0.20}	10.5 ^{+0.15} _{-0.05}	8.5 ^{+0.20} ₋₀
Ø	G	H					
3-3.17	0.5	-					
4	0.4	0.6					
6	0.4	0.6					
8	0.4	0.6					

Ø 5-10-12



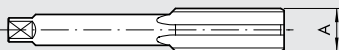
Ø	A	ØB	ØC	ØC1	D	E	F
5	M10.5x0.75	10 ^{+0.1} ₋₀	5 ^{+0.15} ₋₀	4 max	11.8 ^{+0.1} ₋₀	8.9 ^{+0.1} ₋₀	5.8 ^{+0.3} ₋₀
10	M15.5x0.75	15 ^{+0.1} ₋₀	10 ^{+0.15} ₋₀	9 max	15.6 ^{+0.1} ₋₀	11 ^{+0.05} ₋₀	7.5 ^{+0.3} ₋₀
12	M18x1	17.5 ^{+0.05} _{-0.1}	12 ^{+0.05} _{-0.15}	11 max	18 ^{+0.1} ₋₀	12 ^{+0.05} ₋₀	6.8 ^{+0.3} ₋₀
Ø	G	H	ØL	M	N	ØP	
5	0.3	0.9 ⁺⁰ _{-0.3}	11.2 ^{+0.12} _{-0.02}	0.1	7.8 ^{+0.05} ₋₀	9.7 ^{+0.05} ₋₀	
10	0.3	1.3 ⁺⁰ _{-0.3}	16.2 ^{+0.1} _{-0.05}	0.2	9 ^{+0.05} ₋₀	14.9 ^{+0.10} ₋₀	
12	0.6	1.3 ⁺⁰ _{-0.3}	18.8 ^{+0.1} ₋₀	0.2	9.75 ^{+0.1} _{-0.15}	17 ^{+0.1} ₋₀	

TOOL FOR SLOT R26



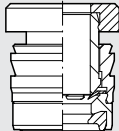
Code	Ref.	A	ØB	ØC
2025010	UT.SE. R26 3-3.17	4.5	10	10
2025011	UT.SE. R26 4	4.1	12	15
2025012	UT.SE. R26 5	5.1	15	19
2025013	UT.SE. R26 6	6.1	16	19
2025014	UT.SE. R26 8	8.1	16	21
2025015	UT.SE. R26 10	10.1	18	25
2025016	UT.SE. R26 12	12.1	15	25

MALE FOR CARTRIDGE SLOT R26



Code	Ref.	Ø	A
2025020	MA R26 3-3.17	3-3.17	M7x0.75
2025021	MA R26 4	4	M9.5x0.75
2025022	MA R26 5	5	M10.5x0.75
2025023	MA R26 6	6	M11.5x0.75
2025024	MA R26 8	8	M13.5x0.75
2025025	MA R26 10	10	M15.5x0.75
2025026	MA R26 12	12	M18x1

BRASS COMPRESSION CARTRIDGE (R27)



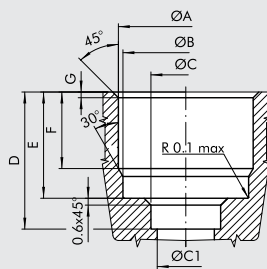
Code Ref. Ø

SERIES R

2027001	R27	4
2027002	R27	5
2027003	R27	6
2027004	R27	8
2027005	R27	10
2027006	R27	12

CARTRIDGE SLOT R27

Ø 4-6-8



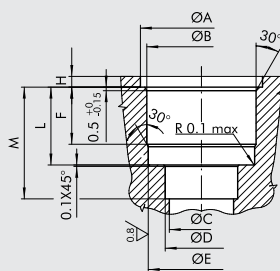
Ø	Ø A	Ø B	Ø C	Ø C1	D	E	F	G
FOR ALUMINIUM								
4	9.2 ^{+0.10} _{-0.10}	9 ^{+0.10} _{-0.10}	4.1 ^{+0.10} _{-0.10}	3 MAX	12 ^{+0.20} _{-0.20}	9.3 ^{+0.10} _{-0.10}	6.7 ^{+0.10} _{-0.10}	0.5
6	11.3 ^{+0.10} _{-0.10}	11 ^{+0.10} _{-0.10}	6.1 ^{+0.10} _{-0.10}	5 MAX	12 ^{+0.20} _{-0.20}	9.3 ^{+0.10} _{-0.10}	6.7 ^{+0.10} _{-0.10}	0.5
8	13.3 ^{+0.10} _{-0.10}	13 ^{+0.10} _{-0.10}	8.1 ^{+0.10} _{-0.10}	7 MAX	15 ^{+0.20} _{-0.20}	10.3 ^{+0.10} _{-0.10}	7.7 ^{+0.10} _{-0.10}	0.5

FOR TECHNOPYLIMER

4	*9.2 ^{+0.10} _{-0.10}	9 ^{+0.10} _{-0.10}	4.1 ^{+0.10} _{-0.10}	3 MAX	12 ^{+0.20} _{-0.20}	9.3 ^{+0.10} _{-0.10}	6.7 ^{+0.10} _{-0.10}	0.5
6	*11.2 ^{+0.10} _{-0.10}	11 ^{+0.10} _{-0.10}	6.1 ^{+0.10} _{-0.10}	5 MAX	12 ^{+0.20} _{-0.20}	9.3 ^{+0.10} _{-0.10}	6.7 ^{+0.10} _{-0.10}	0.5
8	*13.2 ^{+0.10} _{-0.10}	13 ^{+0.10} _{-0.10}	8.1 ^{+0.10} _{-0.10}	7 MAX	15 ^{+0.20} _{-0.20}	10.3 ^{+0.10} _{-0.10}	7.7 ^{+0.10} _{-0.10}	0.5

* N.B.: the diameter in interference is purely an indication and depends on the type of plastic material used and on its thickness.
We suggest you should effect practical assembling tests.

Ø 5-10-12



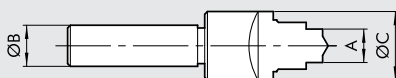
Ø	Ø A	Ø B	Ø C	Ø D	Ø E	F	H	L	M
FOR TECHNOPYLIMER									
5	12.1 ^{+0.15} _{-0.15}	*10.2 ^{+0.10} _{-0.10}	4 MAX	5.1 ^{+0.15} _{-0.15}	9.7 ± 0.05	6 ^{+0.2} _{-0.2}	1.2 ^{-0.2} _{-0.2}	8.75 ^{-0.1} _{-0.1}	11.8 ± 0.10
10	17.1 ^{+0.15} _{-0.15}	*15.15 ^{+0.08} _{-0.08}	9 MAX	10.15 ^{+0.1} _{-0.1}	14.9 ± 0.05	8 ^{+0.2} _{-0.2}	1.5 ^{-0.2} _{-0.2}	10.9 ^{-0.1} _{-0.1}	15.6 ± 0.10
12	19.7 ^{+0.15} _{-0.15}	*17.55 ^{+0.08} _{-0.08}	11 MAX	12.15 ^{+0.1} _{-0.1}	17.1 ± 0.05	9 ^{+0.2} _{-0.2}	1.5 ^{-0.2} _{-0.2}	11.85 ^{-0.1} _{-0.1}	18 ± 0.10

FOR ALUMINIUM

5	12.1 ^{+0.15} _{-0.15}	10.3 ^{+0.08} _{-0.08}	4 MAX	5.1 ^{+0.15} _{-0.15}	9.7 ± 0.05	6 ^{+0.2} _{-0.2}	1.2 ^{-0.2} _{-0.2}	8.75 ^{-0.1} _{-0.1}	11.8 ± 0.10
10	17.1 ^{+0.15} _{-0.15}	15.4 ^{+0.08} _{-0.08}	9 MAX	10.15 ^{+0.1} _{-0.1}	14.9 ± 0.05	8 ^{+0.2} _{-0.2}	1.5 ^{-0.2} _{-0.2}	10.9 ^{-0.1} _{-0.1}	15.6 ± 0.10
12	19.7 ^{+0.15} _{-0.15}	17.8 ^{+0.08} _{-0.08}	11 MAX	12.15 ^{+0.1} _{-0.1}	17.1 ± 0.05	9 ^{+0.2} _{-0.2}	1.5 ^{-0.2} _{-0.2}	11.85 ^{-0.1} _{-0.1}	18 ± 0.10

* N.B.: the diameter in interference is purely an indication and depends on the type of plastic material used and on its thickness.
We suggest you should effect practical assembling tests.

TOOL FOR SLOT R27

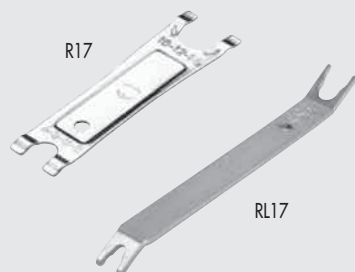


Code	Ref.	A	Ø B	Ø C
FOR ALUMINIUM				
2027021	UT.SE. R27 AL. 4	4.1	10	11.5
2027022	UT.SE. R27 AL. 5	5.1	12	16
2027023	UT.SE. R27 AL. 6	6.1	12	13.5
2027024	UT.SE. R27 AL. 8	8.1	12	15.5
2027025	UT.SE. R27 AL. 10	10.1	16	20
2027026	UT.SE. R27 AL. 12	12.1	16	22

FOR TECHNOPYLIMER

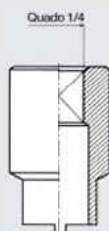
2027011	UT.SE. R27 P. 4	4.1	10	11.5
2027012	UT.SE. R27 P. 5	5.1	12	16
2027013	UT.SE. R27 P. 6	6.1	12	13.5
2027014	UT.SE. R27 P. 8	8.1	12	15.5
2027015	UT.SE. R27 P. 10	10.1	16	20
2027016	UT.SE. R27 P. 12	12.1	16	22

R17 – DISASSEMBLY KEY



Code	Ref.	Lenght (mm)	Ø Tube
2L17001	RL17	140	from 3 to 10
2017001	R17	95.0	from 4 to 14

R41 – CARTRIDGE KEY R26



Code	Ref.	Ø
2041001	R41	4
2041002	R41	5
2041003	R41	6
2041004	R41	8
2041005	R41	10
2041006	R41	12

NOTES

SERIES F PUSH-IN FITTINGS FOR USE IN THE FOOD INDUSTRY

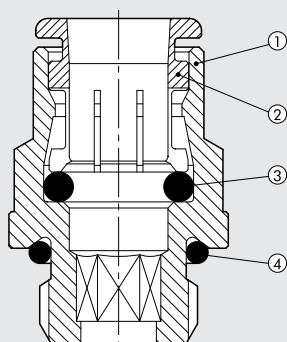
The materials of which these fittings are made can be used in the food industry. The brass parts are chemically treated with phosphorus nickel-plating according to the NSF®/ANSI 51 standard of the food programme. The seals are made of FDA-approved FKM/FPM. There is no technopolymer in the fitting, which solves the problems of incompatibility with detergents and other chemicals. With these materials, the fittings can be used up to 150°C, which make them suitable for high-temperature applications other than the food industry. The threads are cylindrical and under-head O-rings provide a pneumatic seal. This avoids the need for sealants (e.g. Teflon®), which could release solid fragments during screwing and unscrewing that would contaminate the environment or the fluid. Our fittings can be screwed and unscrewed any number of times and still remain clean and pneumatically sealed. This choice of materials and treatments make these fittings suitable for use in the chemical, pharmaceutical, medical and electronics industry. A standard range of fittings is available, but other designs can be developed on specific request.



TECHNICAL FEATURES

Threaded port		M5 - G1/8" - G1/4" - G3/8" - G1/2"
Pipe diameter	mm	Ø 4 - Ø 6 - Ø 8 - Ø 10
Temperature range	°C	- 20 to + 150
	°F	- 4 to 302
Pressure range		- 0.99 bar - 16 bar / - 0.099 MPa - 1.6 MPa
Recommended pipe		Rilsan PA 11 - Nylon 6 - Polyamide 12 - Polypropylene

COMPONENTS



- ① Body: chemically nickel-plated brass to NSF®/ANSI 51 standards
- ② Gripper: chemically nickel-plated brass to NSF®/ANSI 51 standards
- ③ Fitting seal: FKM/FPM
- ④ Port seal: FKM/FPM

ADVANTAGES

Under-head O-ring

Can be screwed and unscrewed any number of times; no fragments of Teflon® or sealant will contaminate the fluid.

Corrosion proof

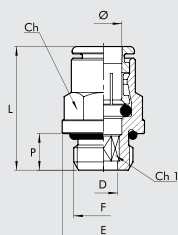
Chemical nickel-plating + FKM/FPM compatible with numerous substances

No plastic parts

No risk of incompatibility

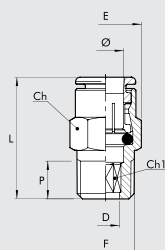


STRAIGHT, CYLINDRICAL, MALE R1 NSF



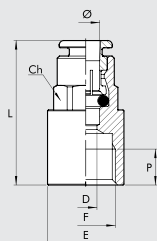
Code	Ref.	Ø	F	CH	CH1	P	L	D	E
2F01001	R1 NSF	4	M5	Ø 9.9	2.5	4	21.5	2.6	9.9
2F01002	R1 NSF	4	1/8	11	3	6	20.5	3.1	15
2F01003	R1 NSF	4	1/4	12	3	8	22.5	3.1	18
2F01000	R1 NSF	6	M5	Ø 12.9	2.5	4	25	2.6	12.9
2F01007	R1 NSF	6	1/8	13	4	6	27.5	4.2	15
2F01008	R1 NSF	6	1/4	13	4	8	26.5	4.2	18
2F01009	R1 NSF	8	1/8	14	5	6	28.5	5.2	15.6
2F01010	R1 NSF	8	1/4	15	6	8	27	6.2	18
2F01011	R1 NSF	8	3/8	15	6	9	28	6.2	21
2F01012	R1 NSF	10	1/4	17	7	8	33.5	7.2	20
2F01013	R1 NSF	10	3/8	17	8	9	30.5	8.2	21
2F01022	R1 NSF	10	1/2	17	10	11	31.5	10.2	26

STRAIGHT, CONICAL, MALE RL1C NSF



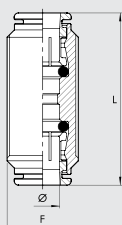
Code	Ref.	Ø	F	CH	CH1	P	L	D	E
2F01C02	R1C NSF	4	1/8	10	2.5	6.2	20.5	3.1	11.5
2F01C07	R1C NSF	6	1/8	12	4	6.2	24	4.2	13.8
2F01C08	R1C NSF	6	1/4	14	4	8.5	25.5	4.2	16
2F01C09	R1C NSF	8	1/8	14	5	6.2	27.5	5.2	16
2F01C10	R1C NSF	8	1/4	14	6	8.5	27.5	6.2	16
2F01C11	R1C NSF	8	3/8	17	6	9	27	6.2	19.6
2F01C13	R1C NSF	10	1/4	17	7	8.5	34.5	7.2	19.6
2F01C14	R1C NSF	10	3/8	17	7	9	30.5	7.2	19.6

STRAIGHT, FEMALE R2 NSF



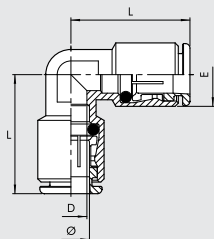
Code	Ref.	Ø	F	CH	P	L	D	E
2F02001	R2 NSF	4	1/8	10	7	27	3	14
2F02005	R2 NSF	6	1/8	13	7	30	5	15
2F02006	R2 NSF	6	1/4	13	8	32	5	17
2F02007	R2 NSF	8	1/8	14	7	30	7	17
2F02008	R2 NSF	8	1/4	14	8	32	7	17
2F02011	R2 NSF	10	1/4	17	8	35	9	20

STRAIGHT, INTERMEDIATE R3 NSF



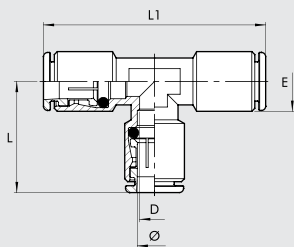
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2F03001	R3 NSF	4	M13X1	33
2F03003	R3 NSF	6	M15X1	40
2F03004	R3 NSF	8	M17X1	41
2F03005	R3 NSF	10	M20X1	47

ELBOW, INTERMEDIATE R4 NSF



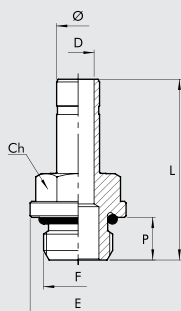
Code	Ref.	Ø	D	E	L
2F04001	R4 NSF	4	2.5	9.5	18
2F04003	R4 NSF	6	4.5	13.5	22
2F04004	R4 NSF	8	7	14	26
2F04005	R4 NSF	10	9	17	30

TEE, INTERMEDIATE R5 NSF



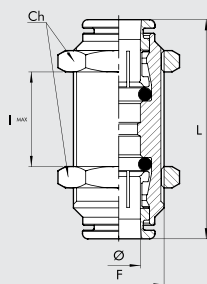
Code	Ref.	Ø	L	L1	D	E
2F05001	R5 NSF	4	21	42	3.5	9.5
2F05003	R5 NSF	6	24	48	5	12.5
2F05004	R5 NSF	8	26	52	7	14
2F05005	R5 NSF	10	30	60	9	17

THREADED ADAPTER R6 NSF



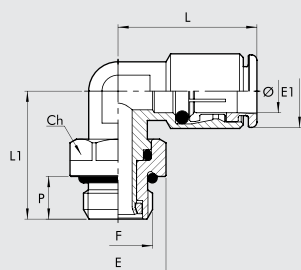
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2F06001	R6 NSF	4	M5	8	4	25.2	2.5	9
2F06002	R6 NSF	4	1/8	13	6	28.9	2.5	15
2F06003	R6 NSF	4	1/4	14	8	32.4	2.2	18
2F06000	R6 NSF	6	M5	9	4	25.7	2.7	10
2F06007	R6 NSF	6	1/8	13	6	29.4	4	15
2F06008	R6 NSF	6	1/4	14	8	32.9	4	18
2F06009	R6 NSF	8	1/8	13	6	30.6	5.5	15
2F06010	R6 NSF	8	1/4	14	8	34	6	18
2F06011	R6 NSF	8	3/8	17	9	35.4	6	22
2F06012	R6 NSF	10	1/4	14	8	35.6	7.8	18
2F06013	R6 NSF	10	3/8	17	9	37.1	8	22

STRAIGHT, INTERMEDIATE, BULKHEAD UNIONS R10 NSF



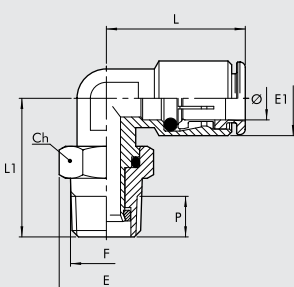
Code	Ref.	Ø	F	CH	L	I MAX
2F11001	R10 NSF	4	M13x1	16	33	11
2F11003	R10 NSF	6	M15x1	17	40	16
2F11004	R10 NSF	8	M17x1	20	41	19
2F11005	R10 NSF	10	M20x1	24	47	21

ROTARY ELBOW, MALE, CYLINDRICAL R31 NSF



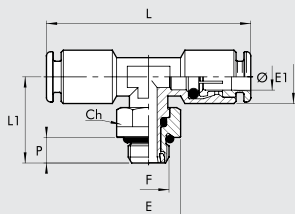
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2F31001	R31 NSF	4	M5	9	9	10	21	19	4
2F31002	R31 NSF	4	1/8	13	15	10	21	21	6
2F31003	R31 NSF	4	1/4	16	18	10	21	25	8
2F31007	R31 NSF	6	M5	9	8	11.8	24	17.5	4
2F31008	R31 NSF	6	1/8	13	15	12.5	24	21	6
2F31009	R31 NSF	6	1/4	16	18	12.5	25.5	25	8
2F31010	R31 NSF	8	1/8	13	15	14	26	22.5	6
2F31011	R31 NSF	8	1/4	16	18	14	26	25	8
2F31012	R31 NSF	8	3/8	19	22	14	27.5	30.5	9
2F31013	R31 NSF	10	1/4	16	18	16.5	30	27	8
2F31014	R31 NSF	10	3/8	19	22	16.5	30	30.5	9
2F31015	R31 NSF	10	1/2	22	26	16.5	31	32	11

ROTARY ELBOW, MALE, CONICAL R31C NSF



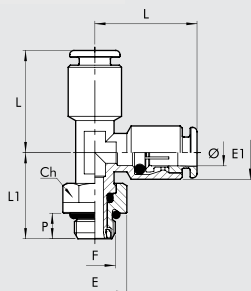
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2F31C02	R31C NSF	4	1/8	12	13.3	10	21	22	6.2
2F31C03	R31C NSF	4	1/4	16	17.7	10	21	27	8.5
2F31C08	R31C NSF	6	1/8	12	13.3	11.8	24	22	6.2
2F31C09	R31C NSF	6	1/4	16	17.7	12.5	25.5	27	8.5
2F31C10	R31C NSF	8	1/8	12	13.3	14	26	23.5	6.2
2F31C11	R31C NSF	8	1/4	16	17.7	14	26	27	8.5
2F31C12	R31C NSF	8	3/8	19	22	14	27.5	31	9
2F31C13	R31C NSF	10	1/4	16	17.7	16.5	30	29	8.5
2F31C14	R31C NSF	10	3/8	19	22	16.5	30	31	9

CENTRAL TEE, MALE, CYLINDRICAL, ROTARY R32 NSF



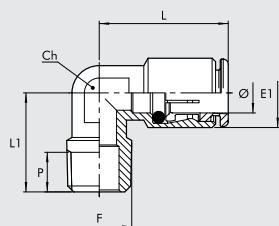
Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2F32002	R32 NSF	4	1/8	13	15	10	41.5	21	6
2F32008	R32 NSF	6	1/8	13	15	12.5	47.5	21	6
2F32009	R32 NSF	6	1/4	16	18	12.5	50.5	25	8
2F32010	R32 NSF	8	1/8	13	15	14	52	22.5	6
2F32011	R32 NSF	8	1/4	16	18	14	52	25	8
2F32012	R32 NSF	8	3/8	19	22	14	56	30.5	9
2F32013	R32 NSF	10	1/4	16	18	16.5	60.5	27	8
2F32014	R32 NSF	10	3/8	19	22	16.5	60.5	30.5	9

LATERAL TEE, MALE, CYLINDRICAL, ROTARY R38 NSF



Code	Ref.	Ø	F	CH	E	E1	L	L1	P
2F38002	R38 NSF	4	1/8	13	15	9.5	22.5	21	6
2F38008	R38 NSF	6	1/8	13	15	12.5	24.5	21	6
2F38009	R38 NSF	6	1/4	16	18	12.5	26	25	8
2F38010	R38 NSF	8	1/8	13	15	14.5	27.5	22.5	6
2F38011	R38 NSF	8	1/4	16	18	14.5	27.5	25	8
2F38013	R38 NSF	10	1/4	16	18	17	31.5	27	8
2F38014	R38 NSF	10	3/8	19	22	17	31.5	30.5	9

ELBOW, MALE, CONICAL R39 NSF



Code	Ref.	Ø	F	CH	E1	L	L1	P
2F39C02	R39 NSF	4	1/8	10	9.5	21	16	6.2
2F39C08	R39 NSF	6	1/8	10	11.8	23.5	16	6.2
2F39C09	R39 NSF	6	1/4	10	11.8	24	18.5	8.5
2F39C10	R39 NSF	8	1/8	12	14	26	17	6.2
2F39C11	R39 NSF	8	1/4	12	14	26	20	8.5
2F39C12	R39 NSF	8	3/8	14	14	27.5	22.5	9
2F39C13	R39 NSF	10	1/4	14	17	30.5	22	8.5

STANDARD FITTING SERIES A

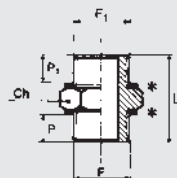


- Body: OT58 brass
- Maximum pressure 870 psi, 6000 KPa 60 bar



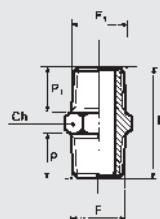
NIPPLE, PARALLEL (A1)

* Washer D11 can be used



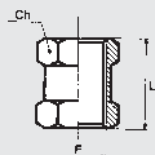
Code	Ref.	F	F1	Ch	P	P1	L
2101A00	A1	M5	M5	8	4.0	4.0	11.5
2101000	A1	M5	1/8	14	4.0	6.0	14.5
2101001	A1	1/8	1/8	14	6.0	6.0	17.0
2101002	A1	1/8	1/4	17	6.0	8.0	19.0
2101003	A1	1/8	3/8	20	6.0	9.0	20.0
2101004	A1	1/4	1/4	17	8.0	8.0	21.0
2101005	A1	1/4	3/8	20	8.0	9.0	22.0
2101006	A1	1/4	1/2	25	8.0	10.0	24.0
2101007	A1	3/8	3/8	20	9.0	9.0	24.0
2101008	A1	3/8	1/2	25	9.0	10.0	25.5
2101009	A1	1/2	1/2	25	10.0	10.0	26.5
2101010	A1	1/2	3/4	30	10.0	11.0	27.0
2101011	A1	3/4	3/4	30	11.0	11.0	28.0

NIPPLE, CONICAL (A2)



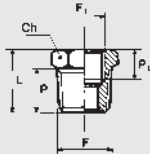
Code	Ref.	F	F1	Ch	P	P1	L
2102001	A2	1/8	1/8	12	8.0	8.0	21.0
2102002	A2	1/8	1/4	14	8.0	11.0	24.0
2102003	A2	1/8	3/8	17	8.0	11.5	25.0
2102004	A2	1/4	1/4	14	11.0	11.0	27.0
2102005	A2	1/4	3/8	17	11.0	11.5	28.0
2102006	A2	1/4	1/2	22	11.0	14.0	32.0
2102007	A2	3/8	3/8	17	11.5	11.5	29.0
2102008	A2	3/8	1/2	22	11.5	14.0	32.5
2102009	A2	1/2	1/2	22	14.0	14.0	35.0
2102010	A2	1/2	3/4	27	14.0	16.5	37.5
2102011	A2	3/4	3/4	27	16.5	16.5	40.0

SLEEVE (A3)



Code	Ref.	F	Ch	L
2103000	A3	M5	8	11.0
2103001	A3	1/8	14	15.0
2103002	A3	1/4	17	22.0
2103003	A3	3/8	22	24.0
2103004	A3	1/2	27	30.0

REDUCER, CONICAL (A4)

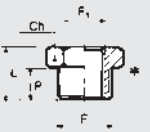


Code	Ref.	F	F1	Ch	P	P1	L
2104001	A4	1/4	1/8	14	11.0	7.0	16.0
2104002	A4	3/8	1/8	17	11.5	7.0	17.0
2104003	A4	3/8	1/4	17	11.5	8.0	17.0
2104004	A4	1/2	1/4	22	14.0	8.0	20.0
2104005	A4	1/2	3/8	22	14.0	10.0	20.0
2104006	A4	3/4	1/2	27	16.5	11.0	23.5

REDUCER, PARALLEL (A4/Z)

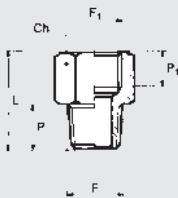


* Washer D11 can be used



Code	Ref.	F	F1	Ch	P	L
2151000	A4/Z	1/8	M5	14	6.0	10.0
2151001	A4/Z	1/4	1/8	17	8.0	13.0
2151002	A4/Z	3/8	1/8	20	9.0	14.0
2151003	A4/Z	3/8	1/4	20	9.0	14.0
2151004	A4/Z	1/2	1/4	25	10.0	15.5
2151005	A4/Z	1/2	3/8	25	10.0	15.5

REDUCER, CONICAL (A5)

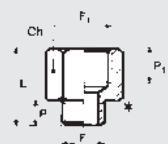


Code	Ref.	F	F1	Ch	P	P1	L
2105001	A5	1/8	1/8	14	8.0	7.0	20.0
2105002	A5	1/8	1/4	17	8.0	8.0	22.5
2105003	A5	1/4	1/4	17	11.0	8.0	25.0
2105004	A5	1/4	3/8	22	11.0	10.0	28.5
2105005	A5	3/8	3/8	22	11.5	10.0	28.5
2105006	A5	3/8	1/2	24	11.5	11.0	32.0
2105007	A5	1/2	1/2	24	14.0	11.0	34.0

REDUCER, PARALLEL (A5/Z)

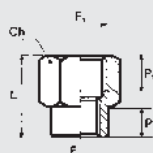


* Washer D11 can be used



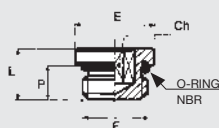
Code	Ref.	F	F1	Ch	P	P1	L
2152001	A5/Z	M5	1/8	12	4.0	7.0	17.0
2152002	A5/Z	1/8	1/8	14	6.0	7.0	18.5
2152003	A5/Z	1/8	1/4	17	6.0	8.0	21.5
2152004	A5/Z	1/4	1/4	17	8.0	8.0	22.5
2152005	A5/Z	1/4	3/8	22	8.0	10.0	26.0
2152006	A5/Z	3/8	3/8	22	9.0	10.0	26.5
2152007	A5/Z	3/8	1/2	24	9.0	11.0	29.5
2152008	A5/Z	1/2	1/2	25	10.0	11.0	29.5

REDUCER A6



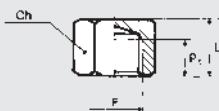
Code	Ref.	F	F1	Ch	P	P1	L
2106001	A6	1/8	1/4	17	8.0	8.0	21.5
2106002	A6	1/8	3/8	22	7.0	10.0	23.5
2106003	A6	1/4	3/8	22	9.0	10.0	25.5
2106004	A6	1/4	1/2	24	9.0	11.0	28.5
2106005	A6	3/8	1/2	24	11.0	11.0	29.5

PLUG WITH EXAGON EMBEDDED (A7)



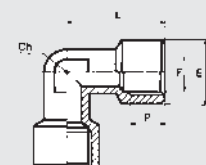
Code	Ref.	F	Ch	P	L	E	O ring
2107000	A7	M5	2.5	4.0	6.5	8	3.5x1.2
2107005	A7	M7	3	5.0	7.4	10	5x1.5
2107001	A7	1/8	3	7.0	9.5	15	2031
2107002	A7	1/4	6	8.0	11.0	18	2043
2107003	A7	3/8	8	9.0	12.5	21	2056
2107004	A7	1/2	10	11.0	14.5	26	3068

NUB (A8)



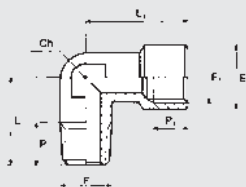
Code	Ref.	F	Ch	P1	L
2108001	A8	1/8	14	7.0	13.0
2108002	A8	1/4	17	8.0	15.0
2108003	A8	3/8	20	10.0	17.5
2108004	A8	1/2	24	11.0	20.0

ELBOW, FEMALE (A9)



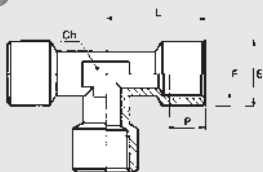
Code	Ref.	F	Ch	P	L	E
2109001	A9	1/8	10	7.0	20.5	13.5
2109002	A9	1/4	13	8.0	26.0	17.0
2109003	A9	3/8	15	10.0	30.0	20.5
2109004	A9	1/2	20	11.0	36.0	25.5

ELBOW, MALE-FEMALE (A10)



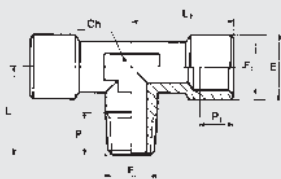
Code	Ref.	F	F1	Ch	P	P1	L	L1	E
2110001	A10	1/8	1/8	10	8.0	7.0	16.5	20.5	13.5
2110002	A10	1/4	1/4	13	10.5	8.0	24.5	26.0	17.0
2110003	A10	3/8	3/8	15	11.0	10.0	26.0	30.0	20.5
2110004	A10	1/2	1/2	20	13.0	11.0	30.0	36.0	25.5

TEE, FEMALE (A11)



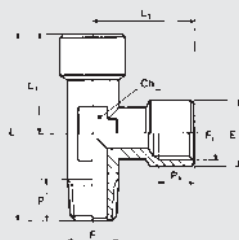
Code	Ref.	F	Ch	P	L	E
2111001	A11	1/8	10	7.0	20.5	13.5
2111002	A11	1/4	13	8.0	26.0	17.0
2111003	A11	3/8	15	10.0	30.0	20.5
2111004	A11	1/2	20	11.0	36.0	25.5

TEE, CENTRAL MALE (A12)



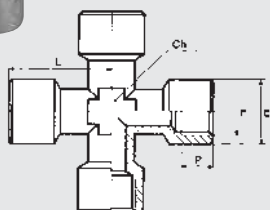
Code	Ref.	F	F1	Ch	P	P1	L	L1	E
2112001	A12	1/8	1/8	10	8.0	7.0	16.5	20.5	13.5
2112002	A12	1/4	1/4	13	10.5	8.0	24.5	26.0	17.0
2112003	A12	3/8	3/8	15	11.0	10.0	26.0	30.0	20.5
2112004	A12	1/2	1/2	20	13.0	11.0	30.0	36.0	25.5

TEE, LATERAL MALE (A13)



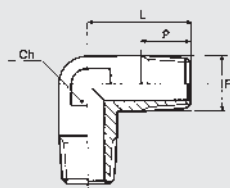
Code	Ref.	F	F1	Ch	P	P1	L	L1	E
2113001	A13	1/8	1/8	10	8.0	7.0	37.0	20.5	13.5
2113002	A13	1/4	1/4	13	10.5	8.0	50.5	26.0	17.0
2113003	A13	3/8	3/8	15	11.0	10.0	56.0	30.0	20.5
2113004	A13	1/2	1/2	20	13.0	11.0	66.0	36.0	25.5

EQUAL FEMALE CROSS (A14)



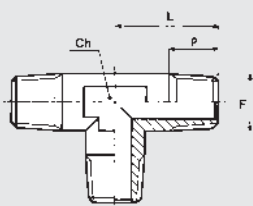
Code	Ref.	F	Ch	P	L	E
2114001	A14	1/8	10	7.0	20.5	13.5
2114002	A14	1/4	13	8.0	26.0	17.0
2114003	A14	3/8	15	10.0	28.0	20.5

ELBOW, MALE (A15)



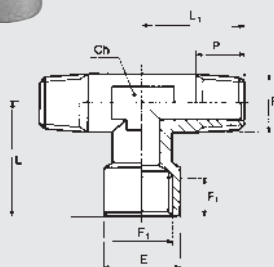
Code	Ref.	F	Ch	P	L
2115001	A15	1/8	10	8.0	16.5
2115002	A15	1/4	13	10.5	24.5
2115003	A15	3/8	15	11.0	26.0
2115004	A15	1/2	20	13.0	30.0

TEE, MALE (A16)



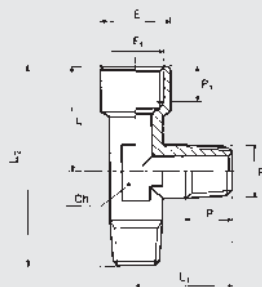
Code	Ref.	F	Ch	P	L
2116001	A16	1/8	10	8.0	16.5
2116002	A16	1/4	13	10.5	24.5
2116003	A16	3/8	15	11.0	26.0
2116004	A16	1/2	20	13.0	30.0

TEE, CENTRAL FEMALE (A17)



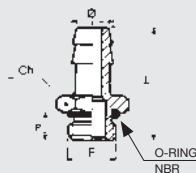
Code	Ref.	F	F1	Ch	P	P1	L	L1	E
2117001	A17	1/4	1/4	13	10.5	8.0	26.0	24.5	17.0
2117002	A17	1/8	1/8	10	8.0	7.0	20.5	16.5	13.5
2117003	A17	3/8	3/8	15	11.0	10.0	30.0	26.0	20.5
2117004	A17	1/2	1/2	20	13.0	11.0	36.0	30.0	25.5

TEE, LATERAL FEMALE (A18)



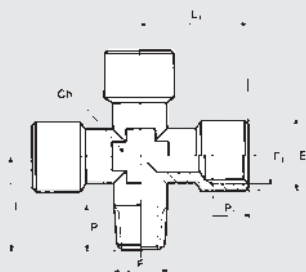
Code	Ref.	F	F1	Ch	P	P1	L	L1	E	L2
2118000	A18	1/8	1/8	10	8.0	7.0	20.5	16.5	13.5	37.0
2118001	A18	1/4	1/4	13	10.5	8.0	26.0	24.5	17.0	50.5
2118002	A18	3/8	3/8	15	11.0	10.0	30.0	26.0	20.5	56.0
2118003	A18	1/2	1/2	20	13.0	11.0	36.0	30.0	25.5	66.0

HOSE ADAPTER, PARALLEL (A19)



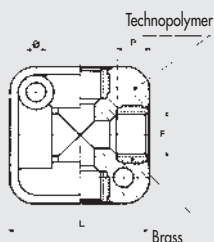
Code	Ref.	Ø	F	Ch	P	L	O ring
2119001	A19	7	1/8	15	6.0	31.0	2031
2119002	A19	7	1/4	18	8.0	33.0	2043
2119003	A19	8	1/8	15	6.0	31.0	2031
2119004	A19	9	1/8	15	6.0	31.0	2031
2119005	A19	9	1/4	18	8.0	33.0	2043
2119006	A19	9	3/8	21	9.0	34.0	2056
2119007	A19	12	1/4	18	8.0	33.0	2043
2119008	A19	12	3/8	21	9.0	34.0	2056
2119009	A19	12	1/2	26	11.0	36.0	3068
2119010	A19	17	3/8	21	9.0	34.0	2056
2119011	A19	17	1/2	26	11.0	36.0	3068

MALE-FEMALE EQUAL CROSS (A20)



Code	Ref.	F	F1	Ch	P	P1	L	L1	E
2120001	A20	1/8	1/8	10	8.0	7.0	16.5	20.5	13.5
2120002	A20	1/4	1/4	13	10.5	8.0	24.5	26.0	17.0

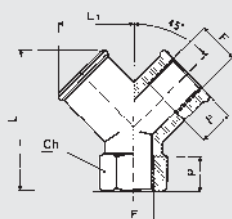
TEE CROSS (A21)



Code	Ref.	F	Ø	P	L	THICKNESS
2121001	A21	1/8	4.5	8.0	31.0	17.5
2121002	A21	1/4	5.5	9.0	40.0	24.0
2121003	A21	3/8	5.5	12.0	50.0	28.0
2121004	A21	1/2	5.5	12.0	50.0	34.0

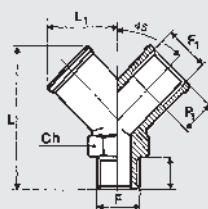
Maximum operating conditions for the A21s are different from other A-series fittings, namely max P13 bar, max T 50°C

Y, FEMALE 90° (A23)



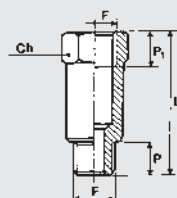
Code	Ref.	F	Ch	P	L	L1
2123001	A23	1/8	13	8	26.5	14.5
2123002	A23	1/4	17	11	32.0	18.0
2123003	A23	3/8	20	11.5	36.5	20.5
2123004	A23	1/2	25	14	44.5	26.5

Y, MALE 90° (A24)



Code	Ref.	F	F1	Ch	P	P1	L	L1
2124001	A24	1/8	1/8	13	8.0	8.0	32.0	14.5
2124002	A24	1/4	1/4	17	11.0	11.0	38.0	18.0
2124003	A24	3/8	3/8	20	11.5	11.5	42.0	20.5
2124004	A24	1/2	1/2	25	14.0	14.0	53.0	26.5

EXTENSION (A25)



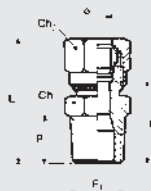
Code	Ref.	F	Ch	P	L	P1
2150003	A25	1/8	14	6.0	22.0	8.0
2150004	A25	1/8	14	6.0	42.0	8.0
2150005	A25	1/8	14	6.0	51.0	8.0
2150006	A25	1/4	17	8.0	35.0	11.0
2150007	A25	1/4	17	8.0	51.0	11.0

COMPRESSION FITTINGS SERIES B

- Body: OT58 brass
- Maximum pressure 870 psi, 6000 kPa 60 bar
- For use with copper tubes

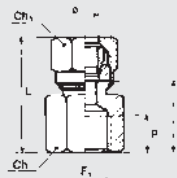


STRAIGHT, MALE CONICAL (B1)



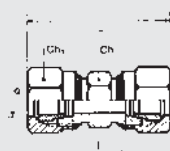
Code	Ref.	Ø	F1	Ch	Ch1	P	L	I
2201001	B1	4/2	1/8	10	10	8.0	27.5	16.0
2201002	B1	6/4	1/8	12	12	8.0	28.0	14.5
2201003	B1	6/4	1/4	14	12	11.0	31.0	17.5
2201004	B1	8/6	1/8	12	14	8.0	30.0	16.5
2201005	B1	8/6	1/4	14	14	11.0	33.0	19.5
2201006	B1	8/6	3/8	17	14	11.5	33.5	20.0
2201007	B1	10/8	1/4	17	19	11.0	38.5	20.0
2201008	B1	10/8	3/8	17	19	11.5	39.0	20.5
2201009	B1	10/8	1/2	22	19	14.0	42.5	24.0
2201010	B1	12/10	3/8	19	22	11.5	38.5	20.5
2201011	B1	12/10	1/2	22	22	14.0	42.0	24.0
2201012	B1	15/12	1/2	22	27	14.0	43.5	25.0

STRAIGHT, FEMALE (B2)



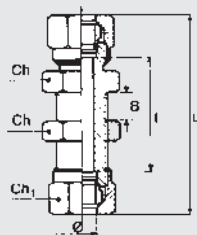
Code	Ref.	Ø	F1	Ch	Ch1	P	L	I
2202001	B2	6/4	1/8	14	12	7	28.5	15.0
2202002	B2	6/4	1/4	17	12	8	31.5	18.0
2202003	B2	8/6	1/8	14	14	7	29.5	16.0
2202004	B2	8/6	1/4	17	14	8	32.0	18.5
2202005	B2	8/6	3/8	22	14	10	36.0	22.5
2202006	B2	10/8	1/4	17	19	8	37.5	19.0
2202007	B2	10/8	3/8	22	19	10	41.0	22.5

STRAIGHT, CONNECTOR (B3)



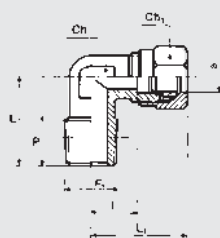
Code	Ref.	Ø	Ch	Ch1	L	I
2203001	B3	4/2	10	10	35	12.0
2203002	B3	6/4	12	12	36	9.0
2203003	B3	8/6	14	14	39	12.0
2203004	B3	10/8	17	19	50	13.0
2203005	B3	12/10	19	22	50	14.0
2203006	B3	15/12	24	27	53	16.0

BULKHEAD CONNECTOR (B4)



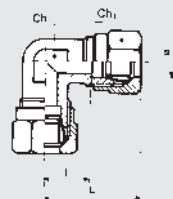
Code	Ref.	Ø	Ch	Ch1	L	I
2204001	B4	6/4	14	12	53.0	26
2204002	B4	8/6	16	14	56.0	29
2204003	B4	10/8	19	19	66.5	29.5
2204004	B4	12/10	22	22	67.0	31
2204005	B4	15/12	25	27	73.5	36.5

ELBOW, MALE (B5)



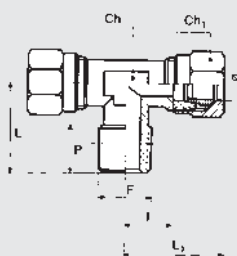
Code	Ref.	Ø	F1	Ch	Ch1	P	L	L1	I
2205001	B5	4/2	1/8	9	10	8.0	16.0	21.5	10.0
2205002	B5	6/4	1/8	9	12	8.0	16.0	22.0	8.5
2205003	B5	6/4	1/4	11	12	11.0	20.0	23.5	10.0
2205004	B5	8/6	1/8	11	14	8.0	17.0	24.0	10.5
2205005	B5	8/6	1/4	11	14	11.0	20.0	24.0	10.5
2205006	B5	8/6	3/8	13	14	12.0	23.5	27.0	13.5
2205007	B5	10/8	1/4	13	19	11.0	22.5	32.0	13.5
2205008	B5	10/8	3/8	13	19	12.0	23.5	32.0	13.5
2205009	B5	10/8	1/2	20	19	13.0	30.0	39.0	20.5
2205010	B5	12/10	3/8	15	22	11.5	24.0	33.5	15.5
2205011	B5	12/10	1/2	20	22	13.0	30.0	38.0	20.0
2205012	B5	15/12	1/2	20	27	13.0	30.0	38.5	20.0

ELBOW, FEMALE (B6)



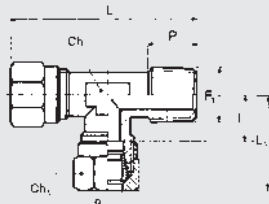
Code	Ref.	Ø	Ch	Ch1	L	I
2206001	B6	4/2	9	10	21.5	10.0
2206002	B6	6/4	9	12	22.0	8.5
2206003	B6	8/6	11	14	24.0	10.5
2206004	B6	10/8	13	19	32.0	13.5
2206005	B6	12/10	15	22	33.5	15.5
2206006	B6	15/12	20	27	38.5	20.0

TEE, CENTRAL MALE (B7)



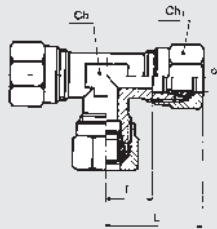
Code	Ref.	Ø	F	Ch	Ch1	P	L	L1	I
2207001	B7	4/2	1/8	9	10	8.0	16.0	21.5	10.0
2207002	B7	6/4	1/8	9	12	8.0	16.0	22.0	8.5
2207003	B7	6/4	1/4	11	12	11.0	20.0	23.5	10.0
2207004	B7	8/6	1/8	11	14	8.0	17.0	24.0	10.5
2207005	B7	8/6	1/4	11	14	11.0	20.0	24.0	10.5
2207006	B7	8/6	3/8	13	14	12.0	23.5	27.0	13.5
2207007	B7	10/8	1/4	13	19	11.0	22.5	32.0	13.5
2207008	B7	10/8	3/8	13	19	12.0	23.5	32.0	13.5
2207010	B7	12/10	3/8	15	22	11.5	24.0	33.5	15.5
2207011	B7	12/10	1/2	20	22	13.0	30.0	38.0	20.0
2207012	B7	15/12	1/2	20	27	13.0	30.0	38.5	20.0

TEE, LATERAL MALE (B8)



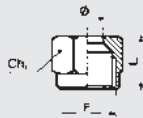
Code	Ref.	Ø	F1	Ch	Ch1	P	L	L1	I
2208000	B8	4/2	1/8	9	10	8.0	37.5	21.5	10.0
2208001	B8	6/4	1/8	9	12	8.0	38.5	22.0	8.5
2208002	B8	6/4	1/4	11	12	11.0	43.5	23.5	10.0
2208003	B8	8/6	1/8	11	14	8.0	41.0	24.0	10.5
2208004	B8	8/6	1/4	11	14	11.0	44.0	24.0	10.5
2208005	B8	8/6	3/8	13	14	12.0	50.5	27.0	13.5
2208006	B8	10/8	1/4	13	19	11.0	54.5	32.0	13.5
2208007	B8	10/8	3/8	13	19	12.0	55.5	32.0	13.5
2208009	B8	12/10	3/8	15	22	11.5	57.5	33.5	15.5
2208010	B8	12/10	1/2	20	22	13.0	68.0	38.0	20.0
2208011	B8	15/12	1/2	20	27	13.0	68.5	38.5	20.0

TEE, MALE (B9)



Code	Ref.	Ø	Ch	Ch1	L	I
2209001	B9	4/2	9	10	21.5	10.0
2209002	B9	6/4	9	12	22.0	8.5
2209003	B9	8/6	11	14	24.0	10.5
2209004	B9	10/8	13	19	32.0	13.5
2209005	B9	12/10	15	22	33.5	15.5
2209006	B9	15/12	20	27	38.5	20.0

NUT (B10)



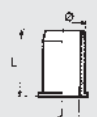
Code	Ref.	Ø	Ch1	L	F
2210001	B10	4/2	10	11.0	M8x1
2210002	B10	6/4	12	11.5	M10x1
2210003	B10	8/6	14	13.0	M12x1
2210004	B10	10/8	19	15.5	M16x1.5
2210005	B10	12/10	22	15.5	M18x1.5
2210006	B10	15/12	27	17.0	M22x1.5

OLIVE (B11)



Code	Ref.	Ø	L
2211001	B11	4/2	6
2211002	B11	6/4	7
2211003	B11	8/6	7
2211004	B11	10/8	10
2211005	B11	12/10	10
2211006	B11	15/12	10

INTERNAL BUSH (B12)



Code	Ref.	Ø	J	L
2212001	B12	6/4	3	12.0
2212002	B12	8/6	5	14.0
2212003	B12	10/8	7	15.0
2212004	B12	12/10	9	16.0
2212005	B12	15/12	11	17.0

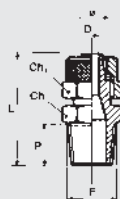
QUICK FITTINGS SERIES C



- Body: OT58 brass
- Maximum pressure 261 psi, 1800 kPa 18 bar

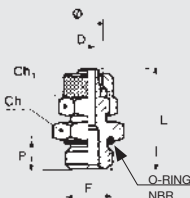


STRAIGHT, MALE CONICAL (C1)



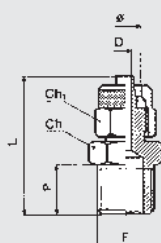
Code	Ref.	Ø	F	Ch	Ch1	P	L	D
2301017	C1	5/3	1/8	12	9	8.0	26.0	2.0
2301001	C1	6/4	1/8	12	12	8.0	26.5	3.0
2301002	C1	6/4	1/4	14	12	11.0	30.0	3.0
2301003	C1	8/6	1/8	12	14	8.0	26.5	5.0
2301004	C1	8/6	1/4	14	14	11.0	30.0	5.0
2301005	C1	8/6	3/8	17	14	11.5	31.0	5.0
2301020	C1	10/8	1/8	14	16	8.0	29.0	5.0
2301006	C1	10/8	1/4	14	16	11.0	32.0	6.8
2301007	C1	10/8	3/8	17	16	11.5	33.0	6.8
2301008	C1	10/8	1/2	22	16	14.0	36.0	6.8
2301009	C1	12/10	3/8	17	19	11.5	35.0	8.5
2301010	C1	12/10	1/2	22	19	14.0	38.0	8.5
2301015	C1	15/12.5	1/2	22	22	14.0	39.5	11.0

STRAIGHT, MALE PARALLEL WITH O-RING (C1/Z)



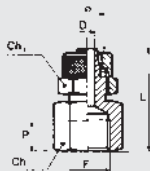
Code	Ref.	Ø	F	Ch	Ch1	P	L	D	O ring
2351001	C1/Z	4/2	M5	9	9	4.0	23.0	1.5	4x1.5
2351002	C1/Z	6/4	M5	9	9	4.0	23.0	2.7	4x1.5
2351003	C1/Z	6/4	1/8	13	12	6.0	25.0	3.0	2031
2351004	C1/Z	6/4	1/4	16	12	8.0	27.0	3.0	2043
2351005	C1/Z	8/6	1/8	14	14	6.0	25.0	5.0	2031
2351006	C1/Z	8/6	1/4	16	14	8.0	27.0	5.0	2043
2351007	C1/Z	8/6	3/8	19	14	9.0	29.0	5.0	2056
2351008	C1/Z	10/8	1/4	16	16	8.0	29.0	6.8	2043
2351009	C1/Z	10/8	3/8	19	16	9.0	31.0	6.8	2056
2351010	C1/Z	10/8	1/2	24	16	11.0	33.0	6.8	3068
2351011	C1/Z	12/10	3/8	19	19	9.0	33.0	8.5	2056
2351012	C1/Z	12/10	1/2	24	19	11.0	35.0	8.5	3068

STRAIGHT, MALE METRIC THREAD (C1/C)



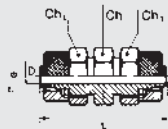
Code	Ref.	Ø	F	Ch	Ch1	P	L	D
2356001	C1/C	5/3	M5	9	9	4	23	2
2356002	C1/C	6/4	M6	9	9	5	24	3
2356003	C1/C	6/4	M12x1.5	17	12	8	27	3
2356004	C1/C	6/4	3/8	19	12	9	27	3
2356005	C1/C	8/6	M12x1.5	17	14	8	27	5

STRAIGHT, FEMALE (C2)



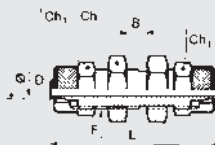
Code	Ref.	Ø	F	Ch	Ch1	P	L	D
2302001	C2	6/4	1/8	14	12	7.0	26.5	3.0
2302002	C2	6/4	1/4	17	12	8.0	29.5	3.0
2302003	C2	8/6	1/8	14	14	7.0	26.5	5.0
2302004	C2	8/6	1/4	17	14	8.0	29.0	5.0
2302005	C2	8/6	3/8	20	14	10.0	33.0	5.0
2302006	C2	10/8	1/4	17	16	8.0	31.0	6.8
2302007	C2	10/8	3/8	20	16	10.0	35.0	6.8
2302008	C2	10/8	1/2	24	16	11.0	38.0	6.8

STRAIGHT, CONNECTOR (C3)



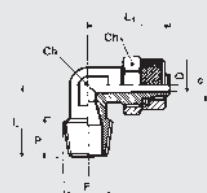
Code	Ref.	Ø	Ch	Ch1	L	D
2303001	C3	6/4	12	12	33.0	3.0
2303002	C3	8/6	12	14	33.0	5.0
2303003	C3	10/8	14	16	37.0	6.8
2303004	C3	12/10	17	19	42.0	8.5

BULKHEAD CONNECTOR (C4)



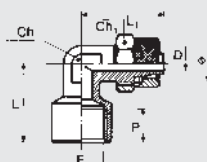
Code	Ref.	Ø	Ch	Ch1	L	D	B	F
2304001	C4	6/4	14	12	47.0	3.0	11.0	M10x1
2304002	C4	8/6	16	14	48.0	5.0	12.0	M12x1
2304003	C4	10/8	17	16	49.0	6.8	9.0	M14x1
2304004	C4	12/10	19	19	53.0	8.5	9.0	M16x1

ELBOW, MALE CONICAL (C5)



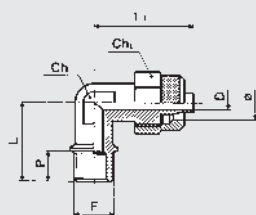
Code	Ref.	Ø	F	Ch	Ch1	P	L	L1	D
2305016	C5	5/3	1/8	8	9	8.0	17.0	22.0	2.0
2305001	C5	6/4	1/8	9	12	8.0	17.0	22.0	3.0
2305002	C5	6/4	1/4	9	12	11.0	20.0	22.0	3.0
2305003	C5	8/6	1/8	12	14	8.0	17.0	22.0	5.0
2305004	C5	8/6	1/4	12	14	11.0	20.0	22.0	5.0
2305005	C5	8/6	3/8	12	14	12.0	22.0	21.5	5.0
2305006	C5	10/8	1/4	12	16	11.0	20.5	25.0	6.8
2305007	C5	10/8	3/8	12	16	12.0	21.5	25.0	6.8
2305008	C5	10/8	1/2	17	16	14.0	26.0	28.5	6.8
2305009	C5	12/10	3/8	17	19	12.0	24.0	31.0	8.5
2305010	C5	12/10	1/2	17	19	14.0	26.0	31.0	8.5
2305017	C5	15/12.5	1/2	17	22	14.0	28.0	32.8	10.7

ELBOW FEMALE (C5/F)



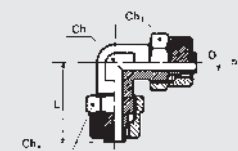
Code	Ref.	Ø	F	Ch	Ch1	L	L1	D	P
2352001	C5/F	6/4	1/8	9	12	21.0	22.0	3.0	7.0
2352002	C5/F	8/6	1/4	12	14	24.0	23.5	5.0	7.0

ELBOW, MALE METRIC THREAD (C5/C)



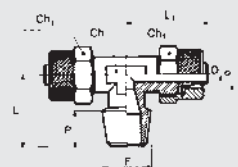
Code	Ref.	Ø	F	Ch	Ch1	P	L	L1	D
2357001	C5/C	6/4	M12x1.5	10	12	9	22	22.5	3
2357002	C5/C	8/6	M12x1.5	10	14	9	22	22.5	5

ELBOW CONNECTOR (C6)



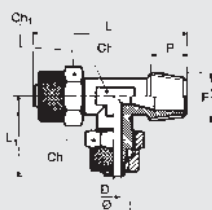
Code	Ref.	Ø	Ch	Ch1	L	D
2306001	C6	6/4	9	12	22.0	3.0
2306002	C6	8/6	12	14	22.0	5.0
2306003	C6	10/8	12	16	25.0	6.8
2306004	C6	12/10	17	19	31.0	8.5
2306006	C6	15/12.5	18	22	32.8	10.7

TEE, CENTRAL MALE (C7)



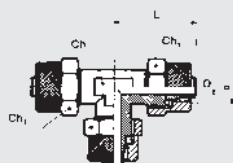
Code	Ref.	Ø	F	Ch	Ch1	P	L	L1	D
2307015	C7	5/3	1/8	9	9	8.0	17.0	22.0	2.0
2307001	C7	6/4	1/8	9	12	8.0	17.0	22.0	3.0
2307002	C7	6/4	1/4	9	12	11.0	20.0	22.0	3.0
2307003	C7	8/6	1/8	12	14	8.0	17.0	22.0	5.0
2307004	C7	8/6	1/4	12	14	11.0	20.0	22.0	5.0
2307005	C7	8/6	3/8	12	14	12.0	22.0	23.0	5.0
2307006	C7	10/8	1/4	12	16	11.0	21.0	25.0	6.8
2307007	C7	10/8	3/8	12	16	12.0	22.0	25.0	6.8
2307008	C7	10/8	1/2	17	16	14.0	26.0	28.5	6.8
2307009	C7	12/10	3/8	17	19	12.0	24.0	31.0	8.5
2307010	C7	12/10	1/2	17	19	14.0	26.0	31.0	8.5
2307016	C7	15/12.5	1/2	18	22	14.0	28.0	32.8	10.7

TEE, LATERAL MALE (C8)



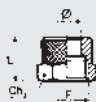
Code	Ref.	Ø	F	Ch	Ch1	P	L	L1	D
2308012	C8	5/3	1/8	9	9	8.0	39.0	22.0	2.0
2308001	C8	6/4	1/8	9	12	8.0	39.0	22.0	3.0
2308002	C8	6/4	1/4	9	12	11.0	42.0	22.0	3.0
2308003	C8	8/6	1/8	12	14	8.0	39.0	22.0	5.0
2308004	C8	8/6	1/4	12	14	11.0	42.0	22.0	5.0
2308005	C8	8/6	3/8	12	14	12.5	45.0	23.0	5.0
2308006	C8	10/8	1/4	12	16	11.5	46.0	25.0	6.8
2308007	C8	10/8	3/8	12	16	12.5	47.0	25.0	6.8
2308008	C8	10/8	1/2	17	16	13.5	54.5	28.5	6.8
2308009	C8	12/10	3/8	17	19	11.5	55.0	31.0	8.5
2308010	C8	12/10	1/2	17	19	13.5	57.0	31.0	8.5

TEE CONNECTOR (C9)



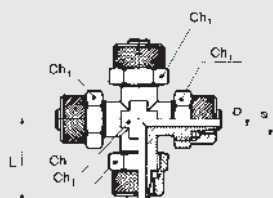
Code	Ref.	Ø	Ch	Ch1	L	D
2309001	C9	6/4	9	12	22.0	3.0
2309002	C9	8/6	12	14	22.0	5.0
2309003	C9	10/8	12	16	25.0	6.8
2309004	C9	12/10	17	19	31.0	8.5
2309007	C9	15/12.5	18	22	32.8	10.7

NUT (C10)



Code	Ref.	Ø	F	Ch1	L
2310001	C10	4/2	M7x0.5	9	9.0
2310009	C10	5/3	M7x0.5	9	9.0
2310002	C10	6/4- M5	M8x0.5	9	9.0
2310003	C10	6/4	M10x1	12	11.0
2310004	C10	8/6	M12x1	14	11.0
2310005	C10	10/8	M14x1	16	12.0
2310006	C10	12/10	M16x1	19	12.0
2310011	C10	15/12.5	M20x1	22	16.0

EQUAL CROSS CONNECTOR (C11)



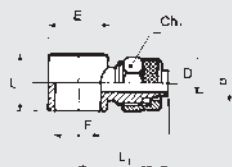
Code	Ref.	Ø	Ch	Ch1	L	D
2311001	C11	6/4	10	12	21.5	3.0
2311002	C11	8/6	10	14	22.0	5.0
2311003	C11	10/8	12	16	24.5	6.8

BANJO FITTINGS SERIES D

- Body: OT58 brass
- Maximum pressure 261 psi, 1800 kPa 18 bar

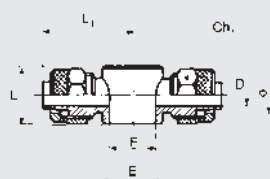


SINGLE BANJO BODY (D5)



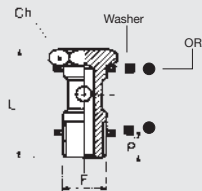
Code	Ref.	Ø	F	Ch1	L	L1	D	E
2405000	D5	4/2	M5	9	9.0	20.5	1.5	9.5
2405013	D5	5/3	1/8	9	15.0	24.3	2.0	14.0
2405018	D5	5/3	M5	9	9.0	20.7	2.0	9.5
2405001	D5	6/4	M5	9	9.0	20.5	3.0	9.5
2405002	D5	6/4	1/8	12	15.0	24.5	3.0	14.0
2405003	D5	6/4	1/4	12	17.0	26.5	3.0	18.0
2405005	D5	8/6	1/8	14	15.0	24.0	5.0	14.0
2405006	D5	8/6	1/4	14	17.0	26.0	5.0	18.0
2405007	D5	8/6	3/8	14	20.0	28.5	5.0	21.0
2405009	D5	10/8	1/4	16	17.0	28.0	6.8	18.0
2405010	D5	10/8	3/8	16	20.0	29.0	6.8	21.0
2405011	D5	10/8	1/2	16	24.0	30.5	6.8	26.0
2405012	D5	12/10	1/2	19	24.0	33.5	8.5	26.0
2405017	D5	12/10	3/8	19	20.0	31.0	8.5	21.0

DOUBLE BANJO BODY (D6)



Code	Ref.	Ø	F	Ch1	L	L1	D	E
2406001	D6	6/4	1/8	12	15.0	24.5	3.0	14.0
2406002	D6	6/4	1/4	12	17.0	26.5	3.0	18.0
2406004	D6	8/6	1/8	14	15.0	24.0	5.0	14.0
2406005	D6	8/6	1/4	14	17.0	26.0	5.0	18.0
2406006	D6	8/6	3/8	14	20.0	28.5	5.0	21.0
2406008	D6	10/8	1/4	16	17.0	28.0	6.8	18.0
2406009	D6	10/8	3/8	16	20.0	29.0	6.8	21.0
2406010	D6	10/8	1/2	16	24.0	30.5	6.8	26.0
2406011	D6	12/10	1/2	19	24.0	33.5	8.5	26.0

BANJO STEM SINGLE (D7)



Code	Ref.	F	Ch	L	P
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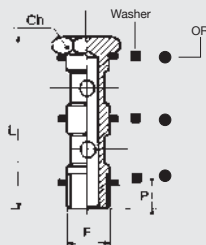
Version with washer D11 for models R13-R14-D12-D17-D5-D6

2407001	D7	M5	8	18.0	3
2407002	D7	1/8	14	28.0	6
2407003	D7	1/4	17	33.0	8
2407004	D7	3/8	20	37.0	9
2407005	D7	1/2	27	42.0	10
2407006	D7	M12x1.5	17	33.0	8

Version with O-ring for models R28-R29

2407102	D7 with OR	1/8	14	28.0	6
2407103	D7 with OR	1/4	17	33.0	8
2407104	D7 with OR	3/8	20	37.0	9

BANJO STEM DOUBLE (D8)



Code	Ref.	F	Ch	L	P
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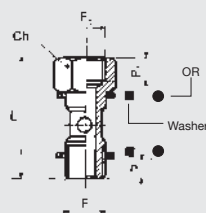
Version with washer D11 for models R13-R14-D5-D6-D12-D17

2408001	D8	1/8	14	44.5	6
2408002	D8	1/4	17	51.5	8
2408003	D8	3/8	20	58.5	9
2408004	D8	1/2	27	67.5	10

Version with O-ring for models R28-R29

2408102	D8 with OR	1/8	14	44.5	6
2408103	D8 with OR	1/4	17	51.5	8
2408104	D8 with OR	3/8	20	58.5	9

BANJO PASSING TROUGH SINGLE (D9)



Code	Ref.	F	F1	Ch	L	P	P1
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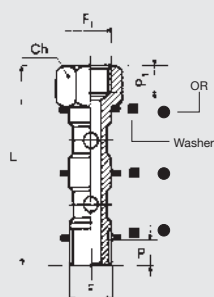
Version with washer D11 for models R13-R14-D5-D6-D12-D17

2409001	D9	1/8	1/8	14	36.5	6	7
2409002	D9	1/4	1/4	17	42.5	8	8
2409003	D9	3/8	3/8	20	49.5	9	10
2409004	D9	1/2	1/2	27	56.5	10	11

Version with O-ring for models R28-R29

2409102	D9	1/8	1/8	14	36.5	6	7
2409103	D9	1/4	1/4	17	42.5	8	8
2409104	D9	3/8	3/8	20	49.5	9	10

BANJO PASSING TROUGHT STEM DOUBLE (D10)



Code	Ref.	F	F1	Ch	L	P	P1
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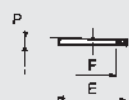
Version with washer D11 for models R13-R14-D5-D6-D12-D17

2410001	D10	1/8	1/8	14	53.0	6	7
2410002	D10	1/4	1/4	17	61.0	8	8
2410003	D10	3/8	3/8	20	71.0	9	10
2410004	D10	1/2	1/2	27	82.0	10	11

Version with O-ring for models R28-R29

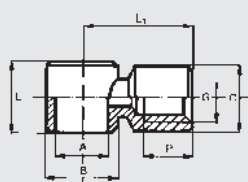
2410102	D10 with OR	1/8	1/8	14	53.0	6	7
2410103	D10 with OR	1/4	1/4	17	61.0	8	8
2410104	D10 with OR	3/8	3/8	20	71.0	9	10

WASHER (D11)



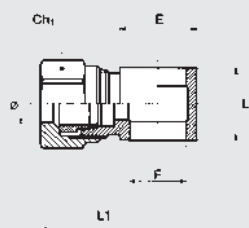
Code	Ref.	F	E	P
2411001	D11	M5	9	1.5 (nylon)
2411002	D11	1/8	13.8	1.5
2411003	D11	1/4	17.8	1.5
2411004	D11	3/8	21.0	1.5
2411005	D11	1/2	26.0	1.5

SINGLE BANJO PASSING TROUGHT BODY (D12)



Code	Ref.	A	G	B	C	L	L1	P
2412001	D12	1/8	1/8	14	13.5	15	21.5	7
2412002	D12	1/4	1/4	18	17.0	17	25.5	8
2412003	D12	3/8	3/8	21	20.5	20	31.0	10

SINGLE BANJO WITH "B" INTERFACE (D17)



Code	Ref.	Ø	F	Ch1	L	L1	E
2417006	D17	4/2	1/8	10	15	24.5	14
2417002	D17	6/4	1/8	12	15	26.0	14
2417003	D17	6/4	1/4	12	17	28.0	18
2417004	D17	8/6	1/8	14	15	26.0	14
2417005	D17	8/6	1/4	14	17	28.0	18

TAPERED THREAD FITTINGS WITH PTFE

Metal Work can supply fittings with a tapered thread coated in polytetrafluorethylene. This system provides the pneumatic seal between the fitting and the female thread. It is therefore not necessary to add other sealing systems during assembly, such as adhesives or Teflon tape. This significantly reduces assembly times. The physical and technical features of the material used ensure that the properties are maintained through time and in a wide range of operating temperatures.

This coating can be used with all Metal Work products that have a 1/8" to 1/2" gas taper thread, particularly the following;

- push-in fittings type R1C, R31C, R32C and R39C
- series A fittings types A2, A4, A5, A10, A12, A13, A15, A16, A17, A18 and A25
- series B bicone fittings, types B1, B5, B7 and B8
- series C push-in fittings, types C1, C5, C7, C8.



TECHNICAL DATA

Threaded coupling covered by PTFE

Temperature range for PTFE

°C

°F

Pressure range

Fluid

1/8" - 1/4" - 3/8" - 1/2"

- 45 to + 80

- 49 to + 176

Except for limitations established for the fitting on which PTFE is applied.

The same as for the fitting on which PTFE is applied.

Vacuum, compressed air.

KEY TO CODES

Fittings with a PTFE thread have the same code as the standard fitting, with the addition of the suffix **T**.

Example

The 1/8" 1/8" A2 fitting has code **2102001**, so the PTFE version has code **2102001T**.

NOTES