VAC
PNEUMATIC

Push-In One Touch Instant Fittings

Common Safety Instructions for Fittings

Be sure to read following instructions before selecting and using the VAC devices. Also read the detailed instructions for individual series.

⚠ Warning

A. Never use for the following:
   1. As equipment for the purpose of the maintenance and management of human life.
   2. As equipment for the purpose of movement of human transportation.
   3. As equipment requirirng essential safety.

B. Never use on the following environment:
   1. Using for applications other than originally intended.
   2. Place of excessive vibration, shock, rotation and curve.
   3. Place consisting of corrosive gas, inflammable / flammable gas, chemicals, sea water and vapor.

C. Never disassemble or remove the equipment; this may cause malfunction or leakage.

D. When repairing or checking equipment, remove air pressure first.

E. Never tamper with the fitting when pressure is on.

F. For the usage of VAC fittings, please use VAC Tubes or the one in accordance with international standard.

G. Consult with us and / or technical data available when the fittings are used for transportation of chemicals and / or chemical surroundings.

H. Do not use fittings with damaged parts.

I. Do not insert other than a specified tube in the fittings.

J. Sharp bending of tubes at the connected parts should be avoided.

K. All fittings have different characteristics depending on the materials used. Additional instruction for each type should be observed.

L. Avoid too frequent switching of air pressure. Otherwise the device body may heat upto cause burns on you.

M. For applications in which the threaded side or the tube connection side is subject to vibration, use Rotary Joints only. Swinging or rotation may damage the joint body.

⚠ Caution

1. In installing the piping, be sure to remove dust or drainage from within the piping. Dust or drainage left unremoved may enter other equipment, thus causing troubles.
2. When using an ultrasoft tube to connect to a One Touch Fitting Joint, be sure to use an insert ring in the bore of the tube. Otherwise the tube may fall out to cause leakage.
3. When you use tubes of brands other than ours, be sure to confirm that the outside diament of the tubes satisfies the tolerance specified in Table 1.

Push-In One Touch Fittings
Series 3600 / 6300

The Push-In One Touch Fittings series pneumatic piping joints excelling in quick fitting, accurate jointing and compact design are suited to the pneumatic systems necessary for automation and labor saving.

The tube can be fitted and detached easily, so that workability is remarkably improved. Pressure loss is reduced. A large volume of compressed air can be fed with least pressure loss without air leak.

Moreover the joints have a compact design. Thus, the joints will satisfy strict user's demands.

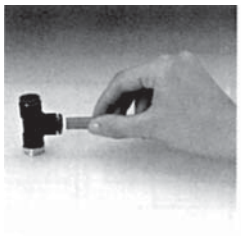
SPECIFICATIONS

Compatible Fluid Type	Air, Water, Vacuum
Operating Pressure Range	0-10Kgf/cm^2
Negative Pressure	-750mmHg (10Torr)
Operating Temperature Range	0-60^{0}C
Recommended Tube Material	Polyurethane and Nylon

Notes

Push-In One Touch Fittings - Series 3600 / 6300

VAC one touch fittings offers a secure solutions for every connection. The convinient push-in fitting system includes various types of standard and function fittings.

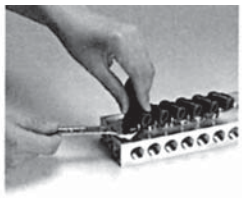


One Touch Connection

Only insert tube for 100% tight connection. To release tube, push Release Sleeve and pull out.

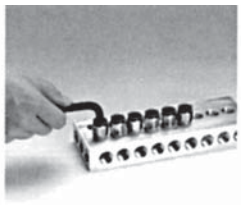
Light & Compact

The fittings are light and compact. They are especially useful in compact machines.



Thread rotates

Even when body is in fixed position, joint attachment is easy, since thread rotates; minimizes piping, space requirement.



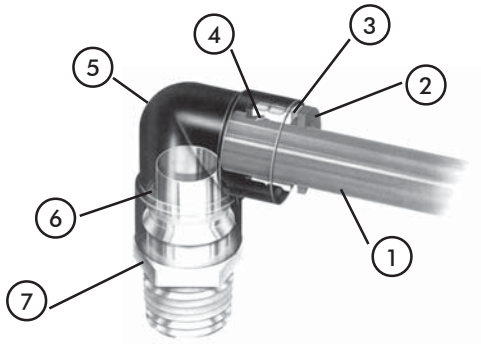
Hex Wrench

The connector's diameter is Ø 4, Ø 6, Ø 8, Ø 10 and Ø 12. A hex wrench can be used and piping is effective even when there is only limited space.

No Seal tape

Because the thread section has been sealed, it is not necessary to wrap tape around it.

Construction



No	Part	Series 3600 / 6300
1	Tube	Refer Specification
2	Release ring	PBT Resin
3	Collar	Nickel-Plated Brass
4	Lock Ring	Stainless Steel
5	Body	PBT Resin
6	O-Ring	NBR
7	Screw Thread Body	Nickel-Plated Brass

Ordering Code System

PC ① 08 ② - 02 ③

① Model Type

② Tube outer Dia (ØD)

Code	ØD
04	Ø4
06	Ø6
08	Ø8
10	Ø10
12	Ø12
14	Ø14
16	Ø16

③Thread Size (T)

Metric Thread & R(PT) Thread

Code	Thread
M3	M3 x 0.5
M5	M5 x 0.8
M6	M6 x 1.0
01	R1/8
02	R1/4
03	R3/8
04	R1/2

Instructions for Push-In One Touch Fittings

Be sure to read the following instructions for long life of VAC Push-In One Touch Fittings -

01. When you use tubes of brands other than ours, be sure to confirm that the outside diameter of the tubes satisfies the tolerance specified in Table 1 -

Table 1. Tube O.D. Tolerance

mm size	Nylon Tube	Polyurethane Tube
Ø4	±0.1mm	±0.15mm
Ø6	±0.1mm	±0.15mm
Ø8	±0.1mm	±0.15mm
Ø10	±0.1mm	±0.15mm
Ø12	±0.1mm	±0.15mm
Ø14	±0.1mm	±0.15mm
Ø16	±0.1mm	±0.15mm

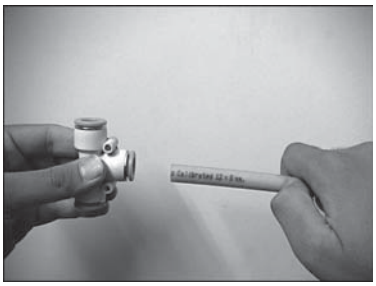
02. Cautions on the fitting of tube -

a. Make certain that the end of the tube is cut at right angles, the tube surface is free from flaws, and the tube is not deformed into an ellipse.

b. When fitting a tube, refer to the dimensional specification of Table 2. To prevent leaks, insert the tube to end (c) completely.

c. On completion of fitting, make certain that the tube does not come out at your pulling.

Mechanism for connection of Tube



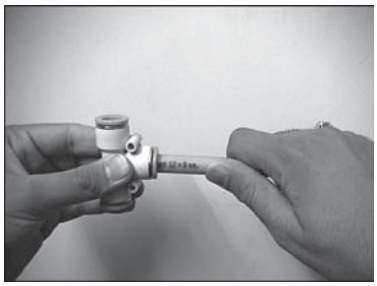
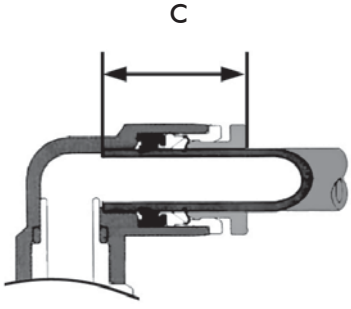


Table 2. Tube Depth



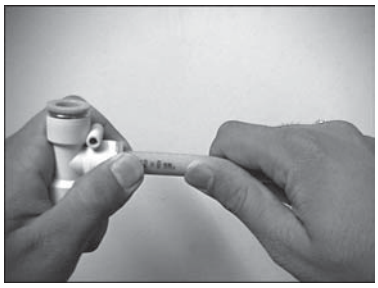
Tube Dia.	C (mm)
Ø4	15
Ø6	17
Ø8	18.5
Ø10	20.5
Ø12	23.5
Ø14	24
Ø16	24.5

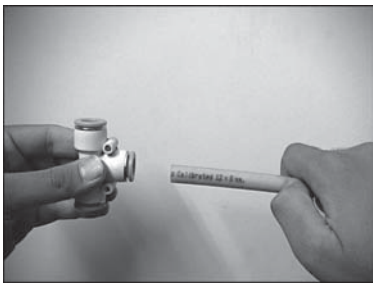
03. Cautions on the release of tube -

a. Before releasing the tube, make certain the pressure inside the tube is zero.

b. Push the release ring fully inside and pull out the tube. Unless you push it completely in, the tube may not come out and scrapings of tube may be left inside the joint.

Mechanism for release of Tube





04. Cautions on the installation of joint body -

a. When installing the joint body, tighten it with a proper tool, using the outside or inside hexagon.

b. In tightening the screw, use the tightening torque recommended in Table 3.

- Use of a torque higher than the recommended level may damage thread or deform gasket, thus causing leaks.
- Use of a torque lower than the recommended level may cause loose screw and leakage.

c. With the joint whose piping direction will not change after tightening, make adjustment within the recommended range of tightening torques.

Table 3. Tightening Torque

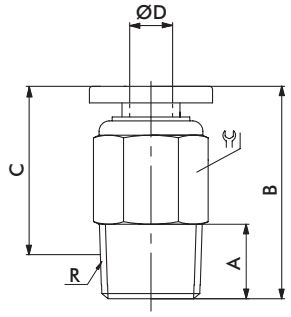
Thread Type	Thread Size	Tightening Torque
Metric thread	M3 x 0.5	0.7N·m
	M5 x 0.8	1.0~1.5N·m
	M6 x 1.0	1.8~2.3N·m
Taper Pipe Thread	R1/8	7~9N·m
	R1/4	12~14N·m
	R3/8	22~24N·m
	R1/2	28~30N·m

05. Cautions on the removal of joint body -

a. When removing the joint body, loose it with a proper tool, using the outside or inside hexagon.

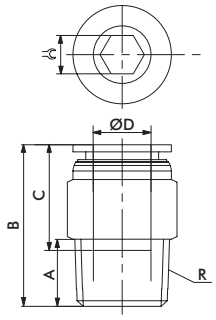
b. Remove sealent sticking to the thread on the mating equipment. The sealent left sticking may enter the peripheral equipment and cause trouble.

PC Male Connector



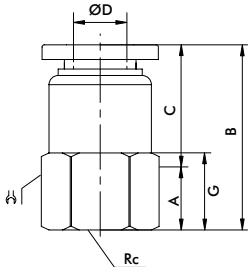
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	(mm)	Orifice (mm)
PC 04-M5	M5	4	5.5	22.2	16	10	2
PC 04-01	R1/8	4	8	22.2	16	10	3
PC 04-02	R1/4	4	11	22.2	16	14	3
PC 06-M5	M5	6	5.5	24.7	17	12	2
PC 06-01	R1/8	6	8	23.2	17	12	4
PC 06-02	R1/4	6	11	25.2	17	14	4
PC 06-03	R3/8	6	12	24.7	17	17	4
PC 06-04	R1/2	6	15	27.3	17	21	4
PC 08-01	R1/8	8	8	28.5	18.5	14	4
PC 08-02	R1/4	8	11	27	18.5	14	6
PC 08-03	R3/8	8	12	25.3	18.5	17	6
PC 08-04	R1/2	8	15	28.3	18.5	21	6
PC 10-01	R1/8	10	8	31	21	17	4
PC 10-02	R1/4	10	11	34	21	17	6
PC 10-03	R3/8	10	12	30	21	17	8
PC 10-04	R1/2	10	15	29.5	21	21	8
PC 12-01	R1/8	12	8	32.5	22.5	21	4
PC 12-02	R1/4	12	11	35.5	22.5	21	6
PC 12-03	R3/8	12	12	31.1	22.5	21	8
PC 12-04	R1/2	12	15	33.1	22.5	21	8
PC 14-02	R1/4	14	11	-	-	-	-
PC 14-03	R3/8	14	12	-	-	-	-
PC 14-04	R1/2	14	15	-	-	-	-
PC 16-03	R3/8	16	12	39.5	25.5	24	8
PC 16-04	R1/2	16	15	42	25.5	24	10

POC Round Male Connector (Internal Allen Key Slot)



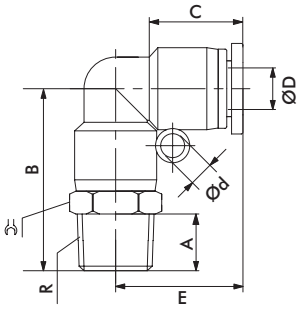
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	(mm)	Orifice (mm)
POC 04-M5	M5	4	5.5	22.2	16	2	2
POC 04-01	R1/8	4	8	22.2	16	3	3
POC 04-02	R1/4	4	11	22.2	16	3	3
POC 06-M5	M5	6	5.5	24.7	17	2	2
POC 06-01	R1/8	6	8	23.2	17	4	4
POC 06-02	R1/4	6	11	25.2	17	4	4
POC 06-03	R3/8	6	12	24.7	17	4	4
POC 06-04	R1/2	6	15	28.3	17	4	4
POC 08-01	R1/8	8	8	28.5	18.5	4	5
POC 08-02	R1/4	8	11	27	18.5	6	6
POC 08-03	R3/8	8	12	25.3	18.5	6	6
POC 08-04	R1/2	8	15	28.3	18.5	6	6
POC 10-01	R1/8	10	8	31	21	4	4
POC 10-02	R1/4	10	11	34	21	6	6
POC 10-03	R3/8	10	12	30	21	6	8
POC 10-04	R1/2	10	15	29.5	21	6	8
POC 12-01	R1/8	12	8	32.5	22.5	4	4
POC 12-02	R1/4	12	11	35.5	22.5	6	6
POC 12-03	R3/8	12	12	31.1	22.5	8	8
POC 12-04	R1/2	12	15	33.1	22.5	8	8

PCF Female Connector



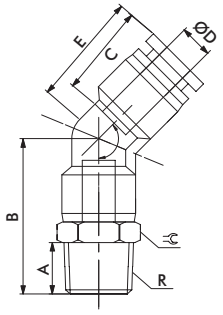
Model	Thread (Rc)	Tube øD (mm)	A (mm)	B (mm)	C (mm)	G (mm)	⌀ (mm)	Orifice (mm)
PCF 04-01	Rc1/8	4	9	26.2	16	11	14	3.5
PCF 04-02	Rc1/4	4	12	29.2	16	14	17	3.5
PCF 06-01	Rc1/8	6	9	27.2	17	10	14	5
PCF 06-02	Rc1/4	6	12	30.2	17	14	17	5
PCF 06-03	Rc3/8	6	13	31.2	17	15	21	5
PCF 06-04	Rc1/2	6	16	35.5	17	19	24	5
PCF 08-01	Rc1/8	8	9	28.5	18.5	12	14	7
PCF 08-02	Rc1/4	8	12	31.3	18.5	15	17	7
PCF 08-03	Rc3/8	8	13	32.5	18.5	16	21	7
PCF 08-04	Rc1/2	8	16	35.5	18.5	19	24	7
PCF 10-01	Rc1/8	10	9	29.5	21	12	14	7
PCF 10-02	Rc1/4	10	12	34	21	13	17	9
PCF 10-03	Rc3/8	10	13	35	21	15	21	9
PCF 10-04	Rc1/2	10	16	35.5	21	19	24	9
PCF 12-01	Rc1/8	12	9	35.5	22.5	13	21	10
PCF 12-02	Rc1/4	12	12	35.5	22.5	13	21	10
PCF 12-03	Rc3/8	12	13	36.5	22.5	14	21	10
PCF 12-04	Rc1/2	12	16	39.5	22.5	19	24	10
PCF 14-02	Rc1/4	14	12	-	-	-	-	-
PCF 14-03	Rc3/8	14	13	-	-	-	-	-
PCF 14-04	Rc1/2	14	16	-	-	-	-	-
PCF 16-03	Rc3/8	16	13	-	-	-	-	-
PCF 16-04	Rc1/2	16	16	-	-	-	-	-

PL Male Elbow



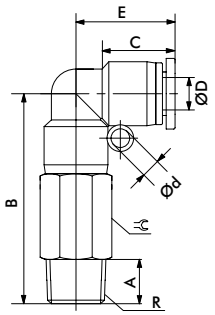
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	ø d (mm)	(mm)	Orifice (mm)
PL 04-M5	M5	4	5.5	17.5	16	18.7	2.2	8	2
PL 04-01	R1/8	4	8	24.6	16	18.7	2.2	10	2.6
PL 04-02	R1/4	4	11	27.6	16	18.7	2.2	14	2.6
PL 06-M5	M5	6	5.5	22	17	20	3.2	10	2
PL 06-01	R1/8	6	8	24	17	21.1	3.2	12	4.6
PL 06-02	R1/4	6	11	28	17	21.1	3.2	14	4.6
PL 06-03	R3/8	6	12	30	17	21.1	3.2	17	4.6
PL 06-04	R1/2	6	15	30	17	21.1	3.2	21	4.6
PL 08-01	R1/8	8	8	27	18.5	22.8	3.2	14	5
PL 08-02	R1/4	8	11	31	18.5	22.8	3.2	14	6
PL 08-03	R3/8	8	12	32	18.5	22.8	3.2	17	6
PL 08-04	R1/2	8	15	36	18.5	22.8	3.2	21	6
PL 10-01	R1/8	10	8	32	21	26.1	4.2	17	5
PL 10-02	R1/4	10	11	35	21	26.1	4.2	17	8
PL 10-03	R3/8	10	12	36	21	26.1	4.2	17	8
PL 10-04	R1/2	10	15	39	21	26.1	4.2	21	8
PL 12-01	R1/8	12	8	34	22.5	29.3	4.2	21	5
PL 12-02	R1/4	12	11	37	22.5	29.3	4.2	21	8
PL 12-03	R3/8	12	12	38	22.5	29.3	4.2	21	9
PL 12-04	R1/2	12	15	41	22.5	29.3	4.2	21	9
PL 14-02	R1/4	14	11	-	-	-	-	-	-
PL 14-03	R3/8	14	12	-	-	-	-	-	-
PL 14-04	R1/2	14	15	-	-	-	-	-	-
PL 16-03	R3/8	16	12	44.3	24.8	33.3	-	24	10
PL 16-04	R1/2	16	15	47.3	24.8	33.3	-	24	13

PL45 45⁰ Male Elbow



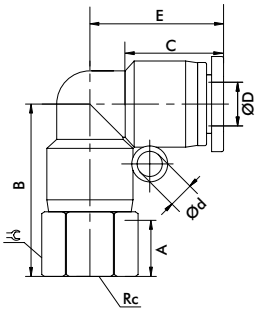
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	⌀ (mm)	Orifice (mm)
PL45 04-M5	M5	4	4	22	16	18.1	10	2
PL45 04-01	R1/8	4	8	24.6	16	18.1	10	2.6
PL45 04-02	R1/4	4	11	27.6	16	18.1	14	2.6
PL45 06-M5	M5	6	4	21.9	17	20.1	12	2
PL45 06-01	R1/8	6	8	24	17	20.1	12	4.6
PL45 06-02	R1/4	6	11	28	17	20.1	14	4.6
PL45 06-03	R3/8	6	12	30	17	20.1	17	4.6
PL45 06-04	R1/2	6	15	33	17	20.1	21	4.6
PL45 08-01	R1/8	8	8	27	18.5	22.7	14	5
PL45 08-02	R1/4	8	11	31	18.5	22.7	14	6
PL45 08-03	R3/8	8	12	32	18.5	22.7	17	6
PL45 08-04	R1/2	8	15	36	18.5	22.7	21	6
PL45 10-01	R1/8	10	8	32	21	26.1	17	5
PL45 10-02	R1/4	10	11	35	21	26.1	17	8
PL45 10-03	R3/8	10	12	36	21	26.1	17	8
PL45 10-04	R1/2	10	15	39	21	26.1	21	8
PL45 12-01	R1/8	12	8	33.9	22.5	29.3	21	5
PL45 12-02	R1/4	12	11	36.9	22.5	29.3	21	8
PL45 12-03	R3/8	12	12	37.9	22.5	29.3	21	9
PL45 12-04	R1/2	12	15	40.9	22.5	29.3	21	9

PLL Male Extended Elbow



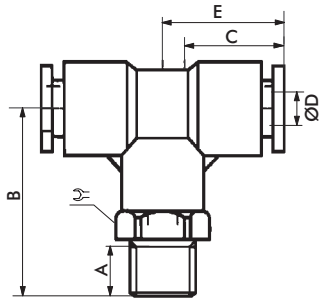
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	⌓ (mm)	Orifice (mm)
PLL 04-M5	M5	4	4	30.9	16	18.7	8	2
PLL 04-01	R1/8	4	8	36	16	18.7	10	2.6
PLL 04-02	R1/4	4	11	39	16	18.7	14	2.6
PLL 06-M5	M5	6	4	35.4	17	20	8	2
PLL 06-01	R1/8	6	8	37.8	17	21.1	12	4.6
PLL 06-02	R1/4	6	11	41.8	17	21.1	14	4.6
PLL 06-03	R3/8	6	12	44.3	17	21.1	17	4.6
PLL 06-04	R1/2	6	15	52.4	17	21.1	21	4.6
PLL 08-01	R1/8	8	8	42.4	18.5	22.8	14	5
PLL 08-02	R1/4	8	11	46.4	18.5	22.8	14	6
PLL 08-03	R3/8	8	12	47.9	18.5	22.8	17	6
PLL 08-04	R1/2	8	15	52.4	18.5	22.8	21	6
PLL 10-01	R1/8	10	8	50.6	21	26.1	17	5
PLL 10-02	R1/4	10	11	53.6	21	26.1	17	8
PLL 10-03	R3/8	10	12	55.1	21	26.1	17	8
PLL 10-04	R1/2	10	15	58.6	21	26.1	21	8
PLL 12-01	R1/8	12	8	56	22.5	24.3	21	5
PLL 12-02	R1/4	12	11	59	22.5	24.3	21	8
PLL 12-03	R3/8	12	12	60.5	22.5	24.3	21	9
PLL 12-04	R1/2	12	15	34	22.5	24.3	21	9

PLF Female Elbow



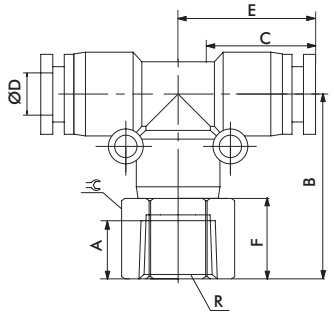
Model	Thread (Rc)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	(mm)	Orifice (mm)
PLF 04-01	Rc1/8	4	9	23.6	16	18.5	10	2.6
PLF 04-02	Rc1/4	4	12	26.6	16	18.5	14	2.6
PLF 06-01	Rc1/8	6	9	23	17	20.3	14	4.6
PLF 06-02	Rc1/4	6	12	26	17	20.3	17	4.6
PLF 06-03	Rc3/8	6	13	27	17	20.3	21	4.6
PLF 06-04	Rc1/2	6	16	29	17	20.3	24	4.6
PLF 08-01	Rc1/8	8	9	26	18.5	22.6	14	5
PLF 08-02	Rc1/4	8	12	29	18.5	22.6	17	5
PLF 08-03	Rc3/8	8	13	30	18.5	22.6	21	6
PLF 08-04	Rc1/2	8	16	34	18.5	22.6	24	6
PLF 10-01	Rc1/8	10	9	33	21	27	17	6
PLF 10-02	Rc1/4	10	12	33	21	27	17	8
PLF 10-03	Rc3/8	10	13	34.5	21	27	21	8
PLF 10-04	Rc1/2	10	16	38	21	27	24	8
PLF 12-01	Rc1/8	12	9	32	22.5	29.3	21	6
PLF 12-02	Rc1/4	12	12	35	22.5	29.3	21	8
PLF 12-03	Rc3/8	12	13	36	22.5	29.3	24	9
PLF 12-04	Rc1/2	12	16	39	22.5	29.3	24	9

PT Male Branch Tee



Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	ø d (mm)	(mm)	Orifice (mm)
PT 04-M5	M5	4	5.5	22.1	16	18.5	2.2	10	2
PT 04-01	R1/8	4	8	24.6	16	18.5	2.2	10	2.6
PT 04-02	R1/4	4	11	27.9	16	18.5	2.2	14	2.6
PT 06-M5	M5	6	5.5	23	17	20.4	3.2	12	2
PT 06-01	R1/8	6	8	25	17	20.4	3.2	12	4.6
PT 06-02	R1/4	6	11	29	17	20.4	3.2	14	4.6
PT 06-03	R3/8	6	12	31	17	20.4	3.2	17	4.6
PT 06-04	R1/2	6	15	35	17	20.4	3.2	21	4.6
PT 08-01	R1/8	8	8	25.5	18.5	22.8	3.2	14	5
PT 08-02	R1/4	8	11	29.5	18.5	22.8	3.2	14	6
PT 08-03	R3/8	8	12	30.5	18.5	22.8	3.2	17	6
PT 08-04	R1/2	8	15	34.5	18.5	22.8	3.2	21	6
PT 10-01	R1/8	10	8	32	21	26	4.2	17	5
PT 10-02	R1/4	10	11	35	21	26	4.2	17	8
PT 10-03	R3/8	10	12	36	21	26	4.2	17	8
PT 10-04	R1/2	10	15	39	21	26	4.2	21	8
PT 12-01	R1/8	12	8	34	22.5	29	4.2	21	5
PT 12-02	R1/4	12	11	37	22.5	29	4.2	21	8
PT 12-03	R3/8	12	12	38	22.5	29	4.2	21	9
PT 12-04	R1/2	12	15	41	22.5	29	4.2	21	9
PT 14-02	R1/4	14	11	-	-	-	-	-	-
PT 14-03	R3/8	14	12	-	-	-	-	-	-
PT 14-04	R1/2	14	15	-	-	-	-	-	-
PT 16-03	R3/8	16	12	44.3	24.8	31.1	-	24	10
PT 16-04	R1/2	16	15	47.3	24.8	31.1	-	24	13

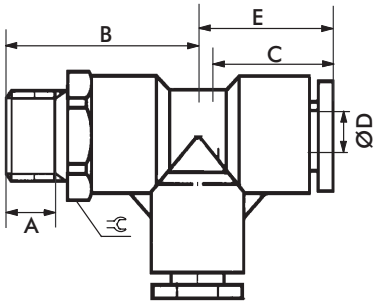
PTF — Female Branch Tee



Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	(mm)	F (mm)	Orifice (mm)
PTF 04-01	R1/8	4	9	23.6	16	18.5	14	11	2.6
PTF 04-02	R1/4	4	12	26.6	16	18.5	17	14	2.6
PTF 06-01	R1/8	6	9	24	17	20.4	14	11	4.6
PTF 06-02	R1/4	6	12	27	17	20.4	17	14	4.6
PTF 06-03	R3/8	6	13	28	17	20.4	21	15	4.6
PTF 08-01	R1/8	8	9	24.5	18.5	22.7	14	11	5
PTF 08-02	R1/4	8	12	27.5	18.5	22.7	17	14	6
PTF 08-03	R3/8	8	13	28.5	18.5	22.7	21	15	6
PTF 10-02	R1/4	10	12	33	21	26.1	17	14	8
PTF 10-03	R3/8	10	13	34.5	21	26.1	21	15.5	8
PTF 10-04	R1/2	10	16	38	21	26.1	24	19	8

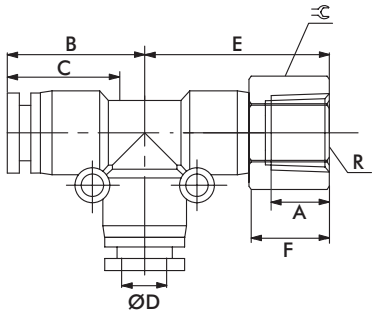
Note: Also Available in sizes -
PTF 4-M5, PTF 6-M5, PTF 6-04,
PTF 8-04, PTF 10-01, PTF 12-01
PTF 12-02, PTF 12-03, PTF 12-04.

PST Male Run Tee



Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	ø d (mm)	⌯ (mm)	Orifice (mm)
PST 04-M5	M5	4	5.5	22.1	16	18.5	2.2	10	2
PST 04-01	R1/8	4	8	24.6	16	18.5	2.2	10	2.6
PST 04-02	R1/4	4	11	27.9	16	18.5	2.2	14	2.6
PST 06-M5	M5	6	5.5	23	17	20.4	3.2	12	2
PST 06-01	R1/8	6	8	25	17	20.4	3.2	12	4.6
PST 06-02	R1/4	6	11	29	17	20.4	3.2	14	4.6
PST 06-03	R3/8	6	12	31	17	20.4	3.2	17	4.6
PST 06-04	R1/2	6	15	33	17	20.4	3.2	21	4.6
PST 08-01	R1/8	8	8	25.5	18.5	22.8	3.2	14	5
PST 08-02	R1/4	8	11	29.5	18.5	22.8	3.2	14	6
PST 08-03	R3/8	8	12	30.5	18.5	22.8	3.2	17	6
PST 08-04	R1/2	8	15	34.5	18.5	22.8	3.2	21	6
PST 10-01	R1/8	10	8	32	21	26	4.2	17	5
PST 10-02	R1/4	10	11	35	21	26	4.2	17	8
PST 10-03	R3/8	10	12	36	21	26	4.2	17	8
PST 10-04	R1/2	10	15	39	21	26	4.2	21	8
PST 12-01	R1/8	12	8	34	22.5	28.7	4.2	21	5
PST 12-02	R1/4	12	11	37	22.5	28.7	4.2	21	8
PST 12-03	R3/8	12	12	38	22.5	28.7	4.2	21	9
PST 12-04	R1/2	12	15	41	22.5	28.7	4.2	21	9

PSTF — Female Run Tee

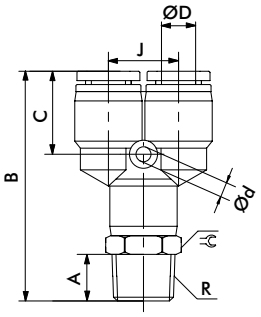


Model	Thread (R)	Tube ØD (mm)	A (mm)	E (mm)	C (mm)	B (mm)	⌯ (mm)	F (mm)	Orifice (mm)
PSTF 04-01	R1/8	4	9	24.6	16	18.5	14	11	2.6
PSTF 04-02	R1/4	4	12	27.9	16	18.5	17	14	2.6
PSTF 06-01	R1/8	6	9	25	17	20.4	14	11	4.6
PSTF 06-02	R1/4	6	12	29	17	20.4	17	14	4.6
PSTF 06-03	R3/8	6	13	31	17	20.4	21	15	4.6
PSTF 08-01	R1/8	8	9	25.5	18.5	22.7	14	11	5
PSTF 08-02	R1/4	8	12	29.5	18.5	22.7	17	14	6
PSTF 08-03	R3/8	8	13	30.5	18.5	22.7	21	15	6
PSTF 10-02	R1/4	10	12	35	21	26.1	17	14	8
PSTF 10-03	R3/8	10	13	36	21	26.1	21	15.5	8
PSTF 10-04	R1/2	10	16	39	21	26.1	24	19	8

Note: Also Available in sizes -

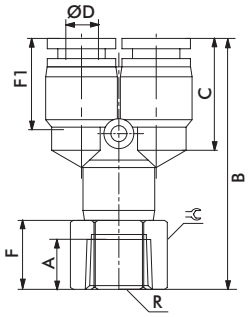
PSTF 4-M5, PSTF 6-M5, PSTF 6-04, PSTF 8-04, PSTF 10-01, PSTF 12-01
PSTF 12-02, PSTF 12-03, PSTF 12-04.

PWT Male "Y"



Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	ø d (mm)	J (mm)	⌯ (mm)	Orifice (mm)
PWT 04-M5	M5	4	5.5	40.3	16	2.2	9.6	10	2
PWT 04-01	R1/8	4	8	42.8	16	2.2	9.6	10	2.6
PWT 04-02	R1/4	4	11	45.8	16	2.2	9.6	14	2.6
PWT 06-M5	M5	6	5.5	41.7	17	3.2	12	12	2
PWT 06-01	R1/8	6	8	43.7	17	3.2	12	12	4.6
PWT 06-02	R1/4	6	11	47.7	17	3.2	12	14	4.6
PWT 06-03	R3/8	6	12	49.7	17	3.2	12	17	4.6
PWT 06-04	R1/2	6	15	56.5	17	3.2	12	21	4.6
PWT 08-01	R1/8	8	8	47.8	18.5	3.2	14	14	6
PWT 08-02	R1/4	8	11	51.8	18.5	3.2	14	14	6
PWT 08-03	R3/8	8	12	52.8	18.5	3.2	14	17	6
PWT 08-04	R1/2	8	15	56.5	18.5	3.2	14	21	6
PWT 10-01	R1/8	10	8	55.2	21	4.2	18	17	5
PWT 10-02	R1/4	10	11	58.2	21	4.2	18	17	8
PWT 10-03	R3/8	10	12	59.2	21	4.2	18	17	8
PWT 10-04	R1/2	10	15	62.2	21	4.2	18	21	8
PWT 12-01	R1/8	12	8	57.7	22.5	4.2	20.8	21	5
PWT 12-02	R1/4	12	11	60.7	22.5	4.2	20.8	21	8
PWT 12-03	R3/8	12	12	61.7	22.5	4.2	20.8	21	9
PWT 12-04	R1/2	12	15	64.7	22.5	4.2	20.8	21	9

PWTF Female Branch Tee

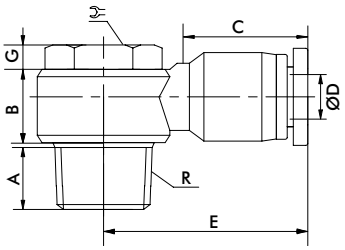


Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	F1 (mm)	⌀ (mm)	F (mm)	Orifice (mm)
PWTF 04-01	R1/8	4	9	42.8	16	15.2	14	11	2.6
PWTF 04-02	R1/4	4	12	45.8	16	15.2	17	14	2.6
PWTF 06-01	R1/8	6	9	43.7	17	20.4	17	11	4.6
PWTF 06-02	R1/4	6	12	47.7	17	20.4	17	14	4.6
PWTF 06-03	R3/8	6	13	49.7	17	20.4	17	15	4.6
PWTF 08-01	R1/8	8	9	47.8	18.5	22.7	17.3	11	5
PWTF 08-02	R1/4	8	12	51.8	18.5	22.7	17.3	14	6
PWTF 08-03	R3/8	8	13	52.8	18.5	22.7	17.3	15	6
PWTF 10-02	R1/4	10	12	58.2	21	26.1	21.5	14	8
PWTF 10-03	R3/8	10	13	59.2	21	26.1	21.5	15.5	8
PWTF 10-04	R1/2	10	16	62.2	21	26.1	21.5	19	8

Note: Also Available in sizes -

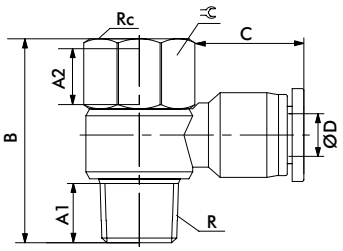
PWTF 4-M5, PWTF 6-M5, PWTF 6-04, PWTF 8-04, PWTF 10-01, PWTF 12-01, PWTF 12-02, PWTF 12-03, PWTF 12-04.

PH Banjo Elbow



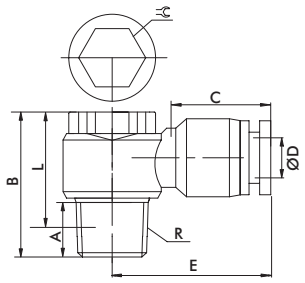
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	⌀ (mm)	G (mm)	Orifice (mm)
PH 04-M5	M5	4	5.5	9	16	20.7	8	3	2
PH 04-01	R1/8	4	8	12	16	22.4	10	4	2
PH 04-02	R1/4	4	11	11.8	16	24.4	10	4.5	3
PH 06-M5	M5	6	5.5	9	17	23.2	8	3	2
PH 06-01	R1/8	6	8	12	17	23.6	10	4	4
PH 06-02	R1/4	6	11	11.8	17	25.7	14	4.5	4
PH 06-03	R3/8	6	12	15.5	17	28.2	19	5	4
PH 06-04	R1/2	6	15	17.7	17	31	24	5	4
PH 08-01	R1/8	8	8	12	18.5	25	10	4	5
PH 08-02	R1/4	8	11	11.8	18.5	28.2	14	4.5	5.5
PH 08-03	R3/8	8	12	15.5	18.5	28.6	19	5	6
PH 08-04	R1/2	8	15	17.7	18.5	31	24	5	6
PH 10-01	R1/8	10	8	12	21	31.2	10	4.5	5.5
PH 10-02	R1/4	10	11	11.8	21	31.2	14	4.5	5.5
PH 10-03	R3/8	10	12	15.5	21	31.6	19	5	8
PH 10-04	R1/2	10	15	17.7	21	34.5	24	5	8
PH 12-01	R1/8	12	8	12	22.5	34.8	10	4.5	8
PH 12-02	R1/4	12	11	11.8	22.5	34.8	14	4.5	8
PH 12-03	R3/8	12	12	15.5	22.5	36	19	5	9
PH 12-04	R1/2	12	15	17.7	22.5	36	24	5	9

PHF Female Banjo



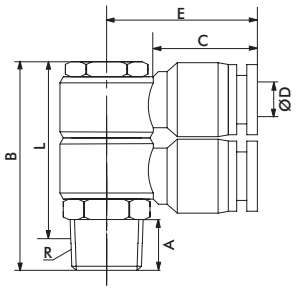
Model	Thread (R)	Thread (Rc)	Tube ØD (mm)	A1 (mm)	A2 (mm)	B (mm)	C (mm)	(mm)	Orifice (mm)
PHF 04-M5	M5	M5	4	5.5	5	21.2	16	8	2
PHF 04-01	R1/8	Rc1/8	4	8	9	30.5	16	14	2
PHF 04-02	R1/4	Rc1/4	4	11	12	36	16	17	3
PHF 06-M5	M5	M5	6	5.5	5	21	17	8	2
PHF 06-01	R1/8	Rc1/8	6	8	9	30.5	17	14	4
PHF 06-02	R1/4	Rc1/4	6	11	12	36	17	17	4
PHF 06-03	R3/8	Rc3/8	6	12	13	41.8	17	21	5
PHF 06-04	R1/2	Rc1/2	6	15	16	51	17	24	7
PHF 08-01	R1/8	Rc1/8	8	8	9	30.5	18.5	14	5
PHF 08-02	R1/4	Rc1/4	8	11	12	36	18.5	17	5.5
PHF 08-03	R3/8	Rc3/8	8	12	13	41.8	18.5	21	6
PHF 08-04	R1/2	Rc1/2	8	15	16	51	18.5	24	7
PHF 10-01	R1/8	Rc1/8	10	8	9	30.5	20	14	5.5
PHF 10-02	R1/4	Rc1/4	10	11	12	36	20	17	5.5
PHF 10-03	R3/8	Rc3/8	10	12	13	41.8	20	21	8
PHF 10-04	R1/2	Rc1/2	10	15	16	51	20	24	8
PHF 12-01	R1/8	Rc1/8	12	8	9	30.5	22.5	14	8
PHF 12-02	R1/4	Rc1/4	12	11	12	36	22.5	17	8
PHF 12-03	R3/8	Rc3/8	12	12	12	41.8	22.5	21	9
PHF 12-04	R1/2	Rc1/2	12	15	15	51	22.5	24	9

POL Hexagonal Holed Banjo



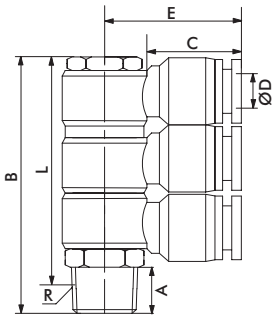
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	L (mm)	(mm)	Orifice (mm)
POL 04-M5	M5	4	3.5	18	16	21	14.5	5	3
POL 04-01	R1/8	4	8	26.9	16	21.5	22.5	6	3
POL 06-M5	M5	6	3.5	18	17	24.9	14.5	5	5
POL 06-01	R1/8	6	8	26.9	17	25.7	22.5	6	5
POL 06-02	R1/4	6	11	29.3	17	25.7	23.5	8	5
POL 06-03	R3/8	6	12	33.8	17	28.2	27.3	10	5
POL 08-01	R1/8	8	8	26.9	18.5	25.1	22.5	6	7
POL 08-02	R1/4	8	11	29.5	18.5	28.3	23.5	8	7
POL 08-03	R3/8	8	12	33.8	18.5	28.7	27.3	10	7
POL 08-04	R1/2	8	15	45	18.5	30.6	26.9	12	7
POL 10-02	R1/4	10	11	29.5	21	31.7	23.5	8	8
POL 10-03	R3/8	10	12	33.8	21	32.1	27.3	10	8
POL 10-04	R1/2	10	15	45	21	35	26.9	12	8
POL 12-02	R1/4	12	11	29.5	22.5	35.6	23.5	8	10
POL 12-03	R3/8	12	12	33.8	22.5	36	27.3	10	10
POL 12-04	R1/2	12	15	45	22.5	36	26.9	12	10

PHB Double Universal Elbow



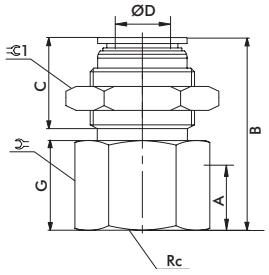
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	L (mm)	Orifice (mm)
PHB 04-01	R1/8	4	8	44.7	16	22.3	39.8	3
PHB 04-02	R1/4	4	11	47.2	16	22.3	41.2	3
PHB 06-01	R1/8	6	8	44.2	17	26.5	39.8	5
PHB 06-02	R1/4	6	11	47.2	17	26.5	41.2	5
PHB 06-03	R3/8	6	12	48.2	17	26.5	41.8	5
PHB 08-01	R1/8	8	8	46.2	18.5	29.1	41.8	7
PHB 08-02	R1/4	8	11	49.2	18.5	29.1	43.2	7
PHB 08-03	R3/8	8	12	50.2	18.5	29.1	43.7	7
PHB 08-04	R1/2	8	15	53.2	18.5	29.1	45.1	7
PHB 10-02	R1/4	10	11	58.6	21	34.3	52.6	8
PHB 10-03	R3/8	10	12	59.6	21	34.3	53.1	8
PHB 10-04	R1/2	10	15	62.6	21	34.3	54.5	8
PHB 12-02	R1/4	12	11	68.8	22.5	38.3	62.8	10
PHB 12-03	R3/8	12	12	69.8	22.5	38.3	63.3	10
PHB 12-04	R1/2	12	15	72.8	22.5	38.3	64.7	10

PHC Triple Universal Elbow



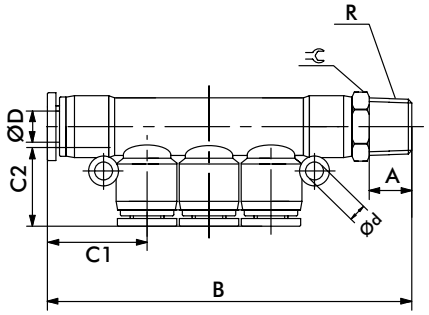
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	E (mm)	L (mm)	Orifice (mm)
PHC 04-01	R1/8	4	8	58.2	16	22.3	53.8	3
PHC 04-02	R1/4	4	11	61.2	16	22.3	55.2	3
PHC 06-01	R1/8	6	8	58.2	17	26.5	53.8	5
PHC 06-02	R1/4	6	11	61.2	17	26.5	55.2	5
PHC 06-03	R3/8	6	12	62.2	17	26.5	55.7	5
PHC 08-01	R1/8	8	8	61.3	18.5	29.1	56.9	7
PHC 08-02	R1/4	8	11	64.3	18.5	29.1	58.3	7
PHC 08-03	R3/8	8	12	65.3	18.5	29.1	58.7	7
PHC 08-04	R1/2	8	15	68.2	18.5	29.1	60.1	7
PHC 10-02	R1/4	10	11	76.2	21	34.3	70.2	8
PHC 10-03	R3/8	10	12	77.2	21	34.3	70.7	8
PHC 10-04	R1/2	10	15	80.2	21	34.3	72.1	8
PHC 12-02	R1/4	12	11	90.6	22.5	38.3	84.6	10
PHC 12-03	R3/8	12	12	91.3	22.5	38.3	84.8	10
PHC 12-04	R1/2	12	15	94	22.5	38.3	86.5	10

PMF Bulkhead Female Straight



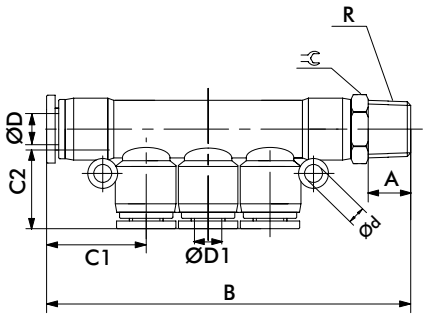
Model	Thread (Rc)	Tube ØD (mm)	A (mm)	B (mm)	C (mm)	G (mm)	(mm)	1 (mm)	Orifice (mm)
PMF 04-01	Rc1/8	4	9	26.2	16	11	14	14	3.5
PMF 04-02	Rc1/4	4	12	29.2	16	14	17	14	3.5
PMF 06-01	Rc1/8	6	9	27.1	17	9	17	17	5
PMF 06-02	Rc1/4	6	12	31.7	17	13.5	17	17	5
PMF 06-03	Rc3/8	6	13	33.2	17	15	19	17	5
PMF 08-01	Rc1/8	8	9	31.5	18.5	10	19	19	7
PMF 08-02	Rc1/4	8	12	35.5	18.5	14	19	19	7
PMF 08-03	Rc3/8	8	13	36.5	18.5	15	19	19	7
PMF 08-04	Rc1/2	8	16	40.5	18.5	19	24	19	7
PMF 10-01	Rc1/8	10	9	31	21	11	22	24	7
PMF 10-02	Rc1/4	10	12	34	21	14	24	24	9
PMF 10-03	Rc3/8	10	13	35	21	15	24	24	9
PMF 10-04	Rc1/2	10	16	39	21	19	24	24	9
PMF 12-01	Rc1/8	12	9	32.5	22.5	10	24	26	10
PMF 12-02	Rc1/4	12	12	35.5	22.5	13	24	26	10
PMF 12-03	Rc3/8	12	13	37.5	22.5	15	24	26	10
PMF 12-04	Rc1/2	12	16	41.5	22.5	19	24	26	10

PKM Male Union Manifold



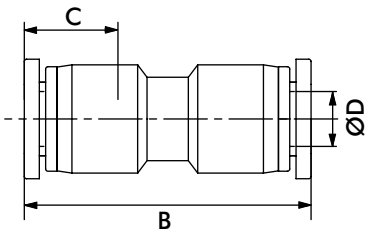
Model	Thread (R)	Tube ØD (mm)	A (mm)	B (mm)	C1 (mm)	C2 (mm)	⌭ (mm)	Ød (mm)
PKM 04-01	M5	4	-	-	-	-	14	3.2
PKM 04-02	R1/8	4	-	-	-	-	12	3.2
PKM 06-01	R1/8	6	8	64.7	17	16	14	3.2
PKM 06-02	R1/4	6	11	76	17	16	14	3.2
PKM 06-03	R3/8	6	12	74.2	17	16	14	3.2
PKM 08-01	R1/8	8	11	70.9	18.5	16	14	3.2
PKM 08-02	R1/4	8	11	76	18.5	16	14	3.2
PKM 08-03	R3/8	8	12	74.2	18.5	16	17	3.2

PKD Male Reducer Triple Branch



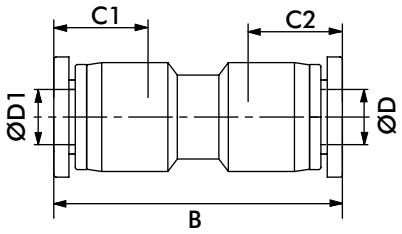
Model	Thread (R)	Tube ØD (mm)	Tube ØD1 (mm)	B (mm)	C1 (mm)	C2 (mm)	A (mm)	⌭ (mm)	Orifice (mm)	Ød (mm)
PKD 06-04-01	R1/8	6	4	64.7	17	16	8	12	3	3.2
PKD 06-04-02	R1/4	6	4	76	17	16	11	12	3	3.2
PKD 08-04-02	R1/4	8	4	70.9	18.5	16	11	14	3	3.2
PKD 08-06-02	R1/4	8	6	76	18.5	17	11	14	5	3.2
PKD 08-06-03	R3/8	8	6	74.2	18.5	17	12	17	5	3.2
PKD 10-08-03	R3/8	10	8	90.6	21	18.5	14	17	7	3.2

PUC Union Coupler



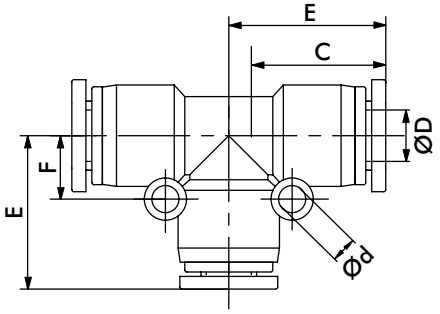
Model	Tube ØD (mm)	B (mm)	C (mm)	Orifice (mm)
PUC 04	4	33.4	16	3
PUC 06	6	35.4	17	5
PUC 08	8	39	18.5	7
PUC 10	10	43	21	8
PUC 12	12	47	22.5	10
PUC 14	14	-	-	-
PUC 16	16	62.2	24.8	13

PG Reducing Coupler



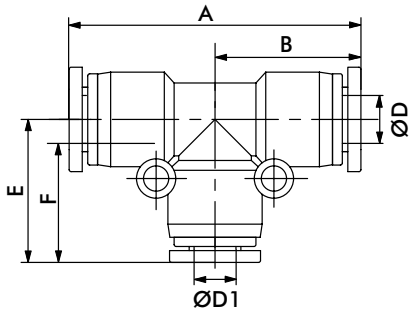
Model	Tube ØD (mm)	Tube ØD1 (mm)	B (mm)	C2 (mm)	C1 (mm)	Orifice (mm)
PG 06-04	6	4	34.9	17	16	3
PG 08-06	8	6	37.2	18.5	17	5
PG 10-08	10	8	41	21	18.5	7
PG 12-10	12	10	45	22.5	21	8
PG 16-12	16	12	51.8	24.8	22.5	10

PUT Union Tee



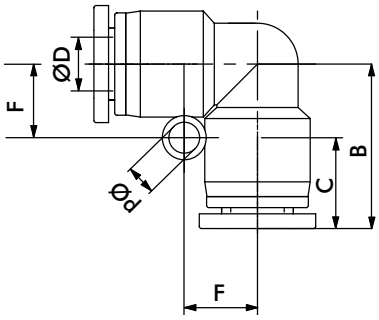
Model	Tube ØD (mm)	B (mm)	C (mm)	F (mm)	Ød (mm)	Orifice (mm)
PUT 04	4	18.5	16	6	2.2	3
PUT 06	6	20.4	17	8	3.2	5
PUT 08	8	22.8	18.5	9	4.2	7
PUT 10	10	26.1	21	12	4.2	8
PUT 12	12	29	22.5	14	4.2	10
PUT 14	14	-	-	-	-	-
PUT 16	16	31.1	24.8	16.6	5.3	13

PUG Reducing Tee



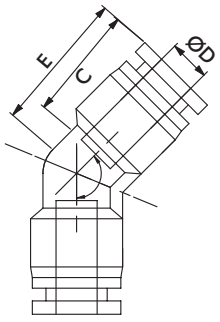
Model	Tube ØD (mm)	Tube ØD1 (mm)	A (mm)	B (mm)	E (mm)	F (mm)	Orifice (mm)
PUG 06-04	6	4	40.8	20.4	19.1	15.6	3
PUG 08-06	8	6	45.4	22.7	21.7	17.2	5
PUG 10-08	10	8	52.2	26.1	23.4	18.4	7
PUG 12-10	12	10	58.6	29.3	27.1	21	8

PUL Union Elbow



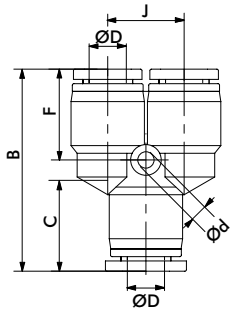
Model	Tube ØD (mm)	B (mm)	C (mm)	F (mm)	Ød (mm)	Orifice (mm)
PUL 04	4	18.7	16	6	2.2	3
PUL 06	6	20.4	17	8	3.2	5
PUL 08	8	22.8	18.5	10	4.2	7
PUL 10	10	26.1	21	12	4.2	8
PUL 12	12	29	22.5	14	4.2	10
PUL 14	14	-	-	-	-	-
PUL 16	16	31.1	24.8	16.3	5.3	13

PUL 45 45⁰ Union Elbow



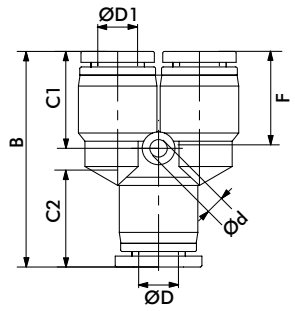
Model	Tube ØD (mm)	C (mm)	E (mm)	Orifice (mm)
PUL45 04	4	16	18.1	3
PUL45 06	6	17	20.1	5
PUL45 08	8	18.5	22.7	7
PUL45 10	10	21	26.1	8
PUL45 12	12	22.5	29.3	10

PY Union "Y"



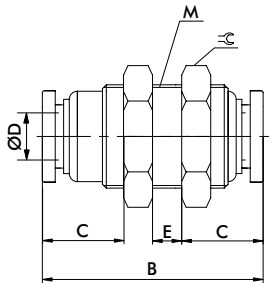
Model	Tube ØD (mm)	B (mm)	C (mm)	ø d (mm)	F (mm)	J (mm)	Orifice (mm)
PY 04	4	35.9	16	2.2	15.2	9.6	3
PY 06	6	39.4	17	3.2	17	12	5
PY 08	8	43.5	18.5	3.2	17.3	14	7
PY 10	10	50	21	4.2	21.5	18	8
PY 12	12	53	22.5	4.2	21	20.8	10

PW Reducing "Y"



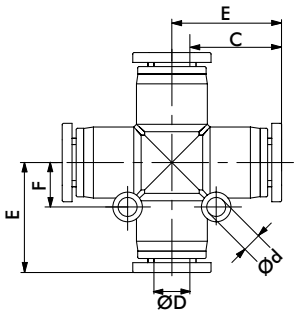
Model	Tube ØD (mm)	Tube ØD1 (mm)	B (mm)	C1 (mm)	C2 (mm)	ø d (mm)	F (mm)	Orifice (mm)
PW 06-04	6	4	26.9	16	17	2.2	15.2	3
PW 08-06	8	6	40.7	17	18.5	3.2	16.9	5
PW 10-08	10	8	49.5	18.5	21	4.2	20	7
PW 12-10	12	10	53.5	21	22.5	4.2	21.5	8

PMM Union Bulkhead



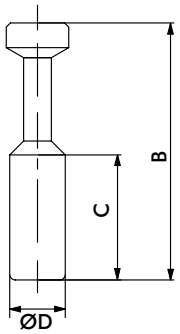
Model	Tube ØD (mm)	M	B (mm)	C (mm)	E (mm)	⌭ (mm)	Orifice (mm)
PMM 04	4	M12X1.0P	33.4	16	13	14	3
PMM 06	6	M14X1.0P	35.9	17	14.5	17	5
PMM 08	8	M16X1.0P	38.5	18.5	13.9	19	7
PMM 10	10	M20X1.0P	43.5	21	17.5	24	9
PMM 12	12	M22X1.0P	46.2	22	21	26	10

PZA Union Cross



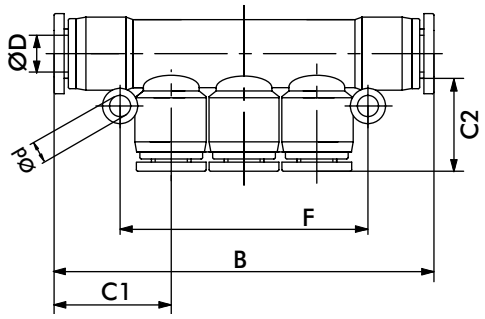
Model	Tube ØD (mm)	E (mm)	C (mm)	F (mm)	ø d (mm)	orifice (mm)
PZA 04	4	18.7	16	6	2.2	3
PZA 06	6	20.4	17	8	3.2	5
PZA 08	8	22.8	18.5	9	4.2	7
PZA 10	10	26.1	21	12	4.2	8
PZA 12	12	29.3	22.5	14	4.2	10

PP Blanking Plug



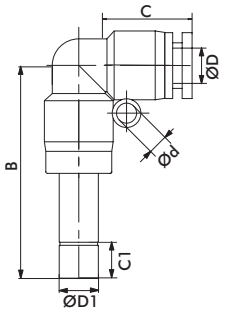
Model	Tube ØD (mm)	B (mm)	C (mm)
PP 04	4	28	16
PP 06	6	32	17
PP 08	8	39	18.5
PP 10	10	42	21
PP 12	12	44	22.5

PK Union Manifold



Model	Tube ØD (mm)	B (mm)	C1 (mm)	C2 (mm)	Ød (mm)	F (mm)	Orifice (mm)
PK 04	4	59.4	17	16	3.2	28.2	2
PK 06	6	59.4	17	16	3.2	34	3
PK 08	8	62	18.5	17	3.2	40	5

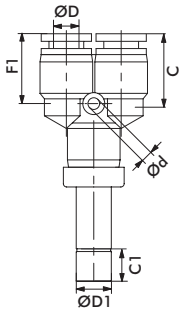
PLGJ Plug In Reducer Elbow



Model	Tube ØD1 (mm)	Tube ØD (mm)	B (mm)	C (mm)	C1 (mm)	Ød (mm)	Orifice (mm)
PLGJ 06 04	6	4	33.3	17	16	2.2	3
PLGJ 08-06	8	6	41.3	18.5	17	3.2	5
PLGJ 10-08	10	8	43.6	21	18.5	3.2	7
PLGJ 12-10	12	10	52	23.5	21	4.2	8

NOTE: Custom-Made: PLGJ 8-4, PLGJ 10-6, PLGJ 12-8 also available.

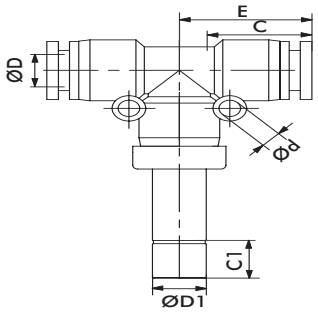
PWJ Plug In Reducer Y



Model	Tube ØD1 (mm)	Tube ØD (mm)	B (mm)	C (mm)	C1 (mm)	F (mm)	Ød (mm)	Orifice (mm)
PWJ 06 04	6	4	55.2	16	17	16.2	2.2	3
PWJ 08-06	8	6	58.7	17	18.5	16.9	3.2	5
PWJ 10-08	10	8	64.7	18.5	21	17.2	3.2	7
PWJ 12-10	12	10	75.2	21	22.5	21.6	4.2	8

NOTE: Custom-Made: PWJ 8-4, PWJ 10-6, PWJ 12-8 also available.

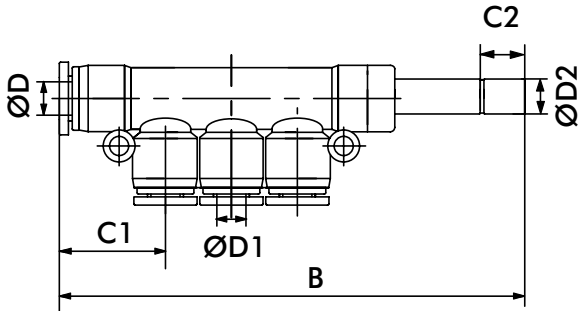
PTJ Plug In Reducer Tee



Model	Tube ØD1 (mm)	Tube ØD (mm)	E (mm)	C (mm)	C1 (mm)	Ød (mm)	Orifice (mm)
PTJ 06 04	6	4	18.5	16	16	2.2	3
PTJ 08-06	8	6	20.4	17	17	3.2	5
PTJ 10-08	10	8	26	21	18.5	3.2	7
PTJ 12-10	12	10	29	22.5	21	4.2	8

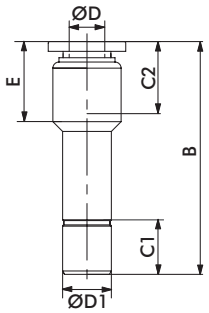
NOTE: Custom-Made: PTJ 8-4, PTJ 10-6, PTJ 12-8 also available.

PKJ Plug In Reducer Triple Branch



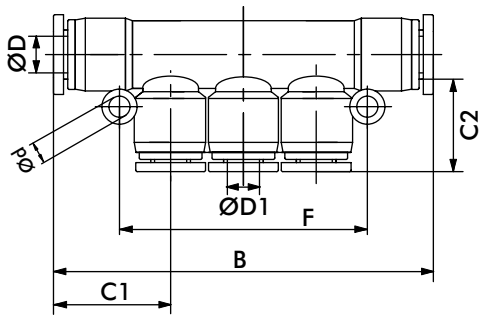
Model	Tube ØD (mm)	Tube ØD1 (mm)	Tube ØD2 (mm)	B (mm)	C1 (mm)	C2 (mm)
PKJ 06 04	6	4	6	75.7	17	17
PKJ 08-04	8	4	6	79.9	18.5	18.5
PKJ 08-06	8	6	8	82.2	18.5	18.5
PKJ 10-06	10	6	10	98.3	21	21
PKJ 10-08	10	8	10	102.6	21	21

PGJ Plug-In Reducer



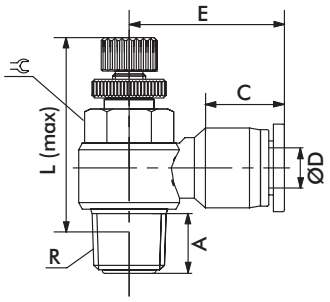
Model	Tube ØD1 (mm)	Tube ØD (mm)	B (mm)	C1 (mm)	C2 (mm)	E (mm)	Orifice (mm)
PGJ 06-04	6	4	41.2	17	16	18.2	3
PGJ 08-04	8	4	43.2	18.5	16	18.2	3
PGJ 08-06	8	6	44.2	18.5	17	19.2	5
PGJ 10-06	10	6	46.2	21	17	19.2	5
PGJ 10-08	10	8	47.5	21	18.5	20.5	7
PGJ 12-06	12	6	48.2	22.5	17	19.2	5
PGJ 12-08	12	8	49.5	22.5	18.5	20.5	7
PGJ 12-10	12	10	52.4	22.5	21	23	8

PKG Reducing Triple Branch Union



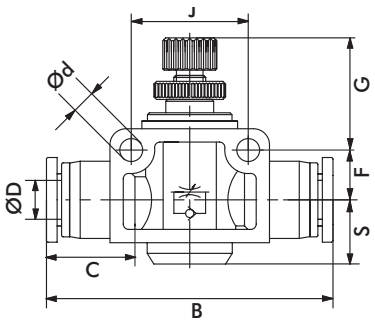
Model	Tube ØD (mm)	Tube ØD1 (mm)	B (mm)	C1 (mm)	C2 (mm)	Ød (mm)	F (mm)	Orifice (mm)
PKG 06-04	6	4	59.4	17	16	3.2	34	3
PKG 08-04	8	4	62	18.5	16	3.2	34	3
PKG 08-06	8	6	62	18.5	17	3.2	40	5
PKG 10-08	10	6	79.2	21	17	4.2	42	5
PKG 12-10	12	10	79.2	21	18.5	4.2	48	7

NSE Flow Control Valve



Model	Thread (R)	Tube ØD (mm)	A (mm)	C (mm)	E (mm)	L (Max) (mm)	⌯ (mm)
NSE 04-M5	M5	4	3.5	16	18.5	26.5	8
NSE 04-01	R1/8	4	7	16	20.2	36	10
NSE 04-02	R1/4	4	11	16	23	41.5	14
NSE 06-M5	M5	6	3.5	17	21.7	26.5	8
NSE 06-01	R1/8	6	6	17	22.7	36	14
NSE 06-02	R1/4	6	10	17	24.2	41.5	14
NSE 06-03	R3/8	6	12.5	17	26.7	47	19
NSE 06-04	R1/2	6	15.5	17	29.2	52	24
NSE 08-01	R1/8	8	6	18.5	23.7	36	14
NSE 08-02	R1/4	8	10	18.5	26.9	41.5	14
NSE 08-03	R3/8	8	12.5	18.5	27.3	47	19
NSE 08-04	R1/2	8	15.5	18.5	29.2	52	24
NSE 10-01	R1/8	10	6	21	29.1	36	14
NSE 10-02	R1/4	10	10	21	29.1	41.5	14
NSE 10-03	R3/8	10	12.5	21	29.5	47	19
NSE 10-04	R1/2	10	15.5	21	32.4	52	24
NSE 12-01	R1/8	12	6	22.5	33.3	36	14
NSE 12-02	R1/4	12	11	22.5	33.3	41.5	14
NSE 12-03	R3/8	12	12.5	22.5	34.7	47	19
NSE 12-04	R1/2	12	15.5	22.5	34.7	52	24

NSF Union Speed Controller



Model	Tube ØD (mm)	B (mm)	ø d (mm)	C (mm)	F (mm)	G (mm)	S (mm)	J (mm)
NSF 04	4	38.4	3.2	16	6.5	13.5	6.5	14
NSF 06	6	47.2	4.3	17	8.5	18.5	11	20
NSF 08	8	51.8	4.3	18.5	9.5	19	12	22
NSF 10	10	59.6	4.3	21	11	23	12	26
NSF 12	12	71.4	4.3	22.5	13	20.5	16	32

Push-In One Touch Function Fittings

Series 810 - Brass Construction
Series 900 - SS304 Construction
Series 2700 - Spatter Proof
Series 7200 - Stop Fittings
Series 8100 - Rotary Fittings
Series 9000 - Rotary with Stop Fitting Mechanism

Notes

Push-In One Touch Fittings - Series 810 / 900 / 2700

For Flame Retardent, Liquids, Gases and Chemicals:

Series 810 fittings are made of Nickel Plated brass and fitted with a Viton 'O' Ring & can be used in applications where liquids and gases are used.

Series 900 fittings, all the parts except the sealing part are of SS304 / SS316, which is highly resistant to corrosion. The seal is fluoric rubber that displays great chemical resistance. The parts are all of oil free specification, so that this series can be used with food processing, chemicals, medical care, semiconductor manufacturing, etc.

Series 2700 fittings may be used in welding applications where their is lot of spatter generated where normal fittings cannot be used for. Not only the body but also the release ring is made of brass, so that these models feature excellent flame resistance, heat resistance ad spatter resistance.

Advantages of these fittings -

01. The large range of fittings available covers all essential needs -
    i. From 4mm OD to 16mm OD
    ii. Multiple configurations and accessories
    iii. BSP Parallel, metric, BSP taper threads and NPT threads.

02. Resistance to aggressive environments and fluids (only applicable for SS304 & SS316) -
    i. All stainless steel construction
    ii. Fluroic rubber seal

03. Tried and tested technology -
    i. Instant manual connection and disconnection - no tools required.
    ii. Full bore, without pressure drop.
    iii. Automatic seal

04. Compatibility with a range of tubes
    i. Teflon Tube
    ii. Stainless Steel Tube / Copper Tube (Please use only metric tubes with close tolerances)
    iii. Nylon Tubing (Semi-Flexible)
    iv. Flexible Polyurethane Tubing
    v. Welding applications

04. Applications -
    i. Chemical Industry (SS304 / SS316)
    ii. Food Industry (SS304 / SS3316)
    iii. Packaging Industry (Brass / SS304 / SS316)
    iv. Medical sector
    v. Moulding Industry. etc.,

Specification for 810 / 2700

SPECIFICATIONS

Compatible Fluid Type	Air, Fluid*1, Vacuum, Gases*2
Operating Pressure Range	0-15Kgf/cm^2 *3
Negative Pressure	-750mmHg (10Torr)
Operating Temperature Range	0-120^{0}C
Recommended Tube Material	Polyurethane, Nylon, Copper, Spatter tube and Teflon

*1 Use insert ring for use with fluids.

*2 Depending on use with gas mixtures, there may be causes in which our specifications are not suitable. Be sure to confirm the specification compatibility before using our fitting.

*3 Maximum pressure of the circuit depends on the type of tube used.

NEW

Specification for 900

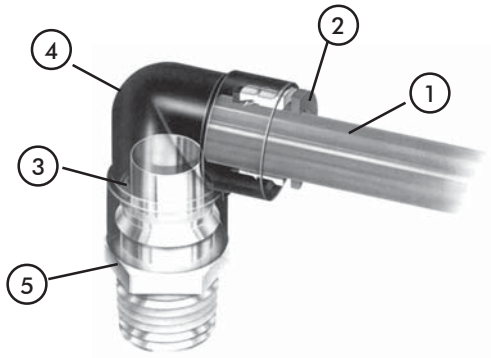
SPECIFICATIONS

Compatible Fluid Type	Air, Fluid*1, Vacuum, Gases*2
Operating Pressure Range	0-10Kgf/cm^2
Negative Pressure	-750mmHg (10Torr)
Operating Temperature Range	0-120^{0}C
Recommended Tube Material	Nylon, SS and Teflon

*1 Use insert ring for use with fluids.

*2 Depending on use with chemical and gas mixtures, there may be causes in which our specifications are not suitable. Be sure to confirm the specification compatibility before using our fitting.

Construction



No	Part	Series 810 / 2700	Series 900
1	Tube	Refer Specification	Refer Specification
2	Release ring	Nickel-Plated Brass	SS304 / SS316
3	O-Ring	Viton	Fluroic Rubber
4	Metallic Body	Nickel-Plated Brass	SS304 / SS316
5	Screw Thread Body	Nickel-Plated Brass	SS304 / SS316

Ordering Code System

PC ① - B ② 08 ③ - 02 ④ ST ⑤

① Model Type

② Material

Code	Material
B	Nickel-Plated Brass
S	SS304
S3	SS316

③ Tube outer Dia (ØD)

Code	ØD
04	Ø4
06	Ø6
08	Ø8
10	Ø10
12	Ø12
14	Ø14
16	Ø16

④ Thread Size (T)

Code	Thread
M3	M3 x 0.5
M5	M5 x 0.8
M6	M6 x 1.0
01	G1/8
02	G1/4
03	G3/8
04	G1/2

⑤ Tube

Code	Material
B	Polyurethane / Nylon
T	Teflon
ST	Spatter Tube
C	Copper Tube
S	SS Tube

PC-* Male Connector

Model	Thread (G)	Tube ØD (mm)
PC-* 04-M3	M3	4
PC-* 04-M5	M5	4
PC-* 04-M6	M6	4
PC-* 04-01	G1/8	4
PC-* 04-02	G1/4	4
PC-* 06-M5	M5	6
PC-* 06-M6	M6	6
PC-* 06-01	G1/8	6
PC-* 06-02	G1/4	6
PC-* 06-03	G3/8	6
PC-* 06-04	G1/2	6
PC-* 08-01	G1/8	8
PC-* 08-02	G1/4	8
PC-* 08-03	G3/8	8
PC-* 08-04	G1/2	8
PC-* 10-01	G1/8	10
PC-* 10-02	G1/4	10
PC-* 10-03	G3/8	10
PC-* 10-04	G1/2	10
PC-* 12-01	G1/8	12
PC-* 12-02	G1/4	12
PC-* 12-03	G3/8	12
PC-* 12-04	G1/2	12
PC-* 14-02	G1/4	14
PC-* 14-03	G3/8	14
PC-* 14-04	G1/2	14
PC-* 16-03	G3/8	16
PC-* 16-04	G1/2	16

* Please check Ordering Code System

PCF-* Female Connector

Model	Thread (G)	Tube ØD (mm)
PCF-* 04-M5	M5	4
PCF-* 04-01	G1/8	4
PCF-* 04-02	G1/4	4
PCF-* 06-M5	M5	6
PCF-* 06-01	G1/8	6
PCF-* 06-02	G1/4	6
PCF-* 06-03	G3/8	6
PCF-* 06-04	G1/2	6
PCF-* 08-01	G1/8	8
PCF-* 08-02	G1/4	8
PCF-* 08-03	G3/8	8
PCF-* 08-04	G1/2	8
PCF-* 10-01	G1/8	10
PCF-* 10-02	G1/4	10
PCF-* 10-03	G3/8	10
PCF-* 10-04	G1/2	10
PCF-* 12-01	G1/8	12
PCF-* 12-02	G1/4	12
PCF-* 12-03	G3/8	12
PCF-* 12-04	G1/2	12
PCF-* 14-02	G1/4	14
PCF-* 14-03	G3/8	14
PCF-* 14-04	G1/2	14
PCF-* 16-03	G3/8	16
PCF-* 16-04	G1/2	16

* Please check Ordering Code System

PL-* Male Elbow

Model	Thread (G)	Tube ØD (mm)
PL-* 04-M3	M3	4
PL-* 04-M5	M5	4
PL-* 04-M6	M6	4
PL-* 04-01	G1/8	4
PL-* 04-02	G1/4	4
PL-* 06-M5	M5	6
PL-* 06-M6	M6	6
PL-* 06-01	G1/8	6
PL-* 06-02	G1/4	6
PL-* 06-03	G3/8	6
PL-* 06-04	G1/2	6
PL-* 08-01	G1/8	8
PL-* 08-02	G1/4	8
PL-* 08-03	G3/8	8
PL-* 08-04	G1/2	8
PL-* 10-01	G1/8	10
PL-* 10-02	G1/4	10
PL-* 10-03	G3/8	10
PL-* 10-04	G1/2	10
PL-* 12-01	G1/8	12
PL-* 12-02	G1/4	12
PL-* 12-03	G3/8	12
PL-* 12-04	G1/2	12
PL-* 14-02	G1/4	14
PL-* 14-03	G3/8	14
PL-* 14-04	G1/2	14
PL-* 16-03	G3/8	16
PL-* 16-04	G1/2	16

* Please check Ordering Code System

PT-* Male Branch Tee

Model	Thread (G)	Tube ØD (mm)
PT-* 04-M3	M3	4
PT-* 04-M5	M5	4
PT-* 04-M6	M6	4
PT-* 04-01	G1/8	4
PT-* 04-02	G1/4	4
PT-* 06-M5	M5	6
PT-* 06-M6	M6	6
PT-* 06-01	G1/8	6
PT-* 06-02	G1/4	6
PT-* 06-03	G3/8	6
PT-* 06-04	G1/2	6
PT-* 08-01	G1/8	8
PT-* 08-02	G1/4	8
PT-* 08-03	G3/8	8
PT-* 08-04	G1/2	8
PT-* 10-01	G1/8	10
PT-* 10-02	G1/4	10
PT-* 10-03	G3/8	10
PT-* 10-04	G1/2	10
PT-* 12-01	G1/8	12
PT-* 12-02	G1/4	12
PT-* 12-03	G3/8	12
PT-* 12-04	G1/2	12
PT-* 14-02	G1/4	14
PT-* 14-03	G3/8	14
PT-* 14-04	G1/2	14
PT-* 16-03	G3/8	16
PT-* 16-04	G1/2	16

* Please check Ordering Code System

BPUC-* Union Coupler

Model	Tube ØD (mm)	Tube ØD1 (mm)
PUC-* 04	4	4
PUC-* 06	6	6
PUC-* 08	8	8
PUC-* 10	10	10
PUC-* 12	12	12
PUC-* 14	14	14
PUC-* 16	16	16

* Please check Ordering Code System

BPUL-* Union Elbow

Model	Tube ØD (mm)	Tube ØD1 (mm)
PUL-* 04	4	4
PUL-* 06	6	6
PUL-* 08	8	8
PUL-* 10	10	10
PUL-* 12	12	12
PUL-* 14	14	14
PUL-* 16	16	16

* Please check Ordering Code System

BPUT-* Union Tee

Model	Tube ØD (mm)	Tube ØD1 (mm)
PUT-* 04	4	4
PUT-* 06	6	6
PUT-* 08	8	8
PUT-* 10	10	10
PUT-* 12	12	12
PUT-* 14	14	14
PUT-* 16	16	16

* Please check Ordering Code System

BPMM-* Union Bulkhead

Model	Tube ØD (mm)	Tube ØD1 (mm)
PMM-* 04	4	4
PMM-* 06	6	6
PMM-* 08	8	8
PMM-* 10	10	10
PMM-* 12	12	12
PMM-* 14	14	14
PMM-* 16	16	16

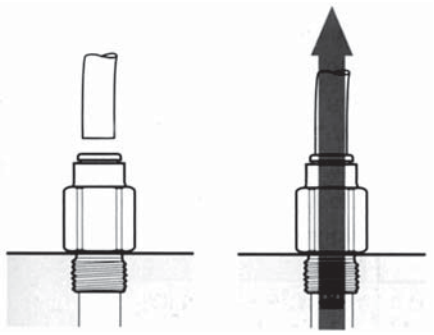
* Please check Ordering Code System

Push-In One Touch Fittings - Series 7200 - Stop Fittings

VAC Stop Fittings enable circuits and machinery to stay under pressure when being checked and maintained. The working process is simple:

1. Prevents fluid flow when there is no tube connected
2. Conversely, when connected, the compressed air flow is restored in both directions.

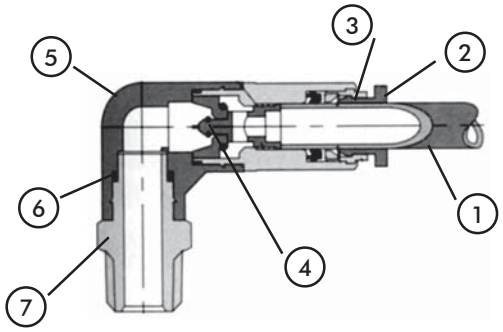
Working Principle



SPECIFICATIONS

Compatible Fluid Type	Air
Operating Pressure Range	0-10Kgf/cm^2
Negative Pressure	-750mmHg (10Torr)
Operating Temperature Range	0-60^{0}C
Recommended Tube Material	Polyurethane, Nylon and Teflon

Construction



No	Part	Series 7200
1	Tube	Refer Specification
2	Release ring	Nickel-Plated Brass
3	Collar	Nickel-Plated Brass
4		Valve Assembly
5	Body	PBT Resin
6	O-Ring	NBR
7	Screw Thread Body	Nickel-Plated Brass

Ordering Code System

SPC ① 08 ② - 02 ③

① Model Type ② Tube outer Dia (ØD) ③ Thread Size (T)

Code	ØD
04	Ø4
06	Ø6
08	Ø8
10	Ø10
12	Ø12
14	Ø14
16	Ø16

Code	Thread
M3	M3 x 0.5
M5	M5 x 0.8
M6	M6 x 1.0
01	G1/8
02	G1/4
03	G3/8
04	G1/2

SPC Stop Male Connector

Model	Thread (G)	Tube ØD (mm)
SPC 04-01	G1/8	4
SPC 04-02	G1/4	4
SPC 06-01	G1/8	6
SPC 06-02	G1/4	6
SPC 06-03	G3/8	6
SPC 06-04	G1/2	6
SPC 08-01	G1/8	8
SPC 08-02	G1/4	8
SPC 08-03	G3/8	8
SPC 08-04	G1/2	8
SPC 10-02	G1/4	10
SPC 10-03	G3/8	10
SPC 10-04	G1/2	10
SPC 12-02	G1/4	12
SPC 12-03	G3/8	12
SPC 12-04	G1/2	12
SPC 14-02	G1/4	14
SPC 14-03	G3/8	14
SPC 14-04	G1/2	14
SPC 16-03	G3/8	16
SPC 16-04	G1/2	16

SPL Stop Male Elbow

Model	Thread (G)	Tube ØD (mm)
SPL 04-01	G1/8	4
SPL 04-02	G1/4	4
SPL 06-01	G1/8	6
SPL 06-02	G1/4	6
SPL 06-03	G3/8	6
SPL 06-04	G1/2	6
SPL 08-01	G1/8	8
SPL 08-02	G1/4	8
SPL 08-03	G3/8	8
SPL 08-04	G1/2	8
SPL 10-02	G1/4	10
SPL 10-03	G3/8	10
SPL 10-04	G1/2	10
SPL 12-02	G1/4	12
SPL 12-03	G3/8	12
SPL 12-04	G1/2	12
SPL 14-02	G1/4	14
SPL 14-03	G3/8	14
SPL 14-04	G1/2	14
SPL 16-03	G3/8	16
SPL 16-04	G1/2	16

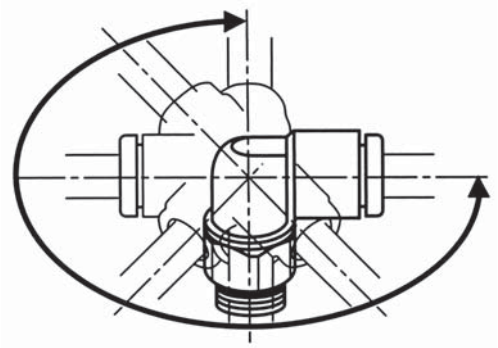
SPUC Stop Union Coupler

Model	Tube ØD (mm)	Tube ØD1 (mm)
SPUC 04	4	4
SPUC 06	6	6
SPUC 08	8	8
SPUC 10	10	10
SPUC 12	12	12
SPUC 14	14	14
SPUC 16	16	16

Push-In One Touch Fittings - Series 8100 - Rotary Fittings

VAC Rotary Fittings are designed to satisfy the requirements of industrial automation and robotics. The rotary fittings features low friction bearing mechanism enabling the fitting to rotate in conjunction with the stroke of the cylinder piston. This prevents premature tube wear due to excessive flexing. The highly reliable technology used gives particularly long life expectancy on all installations thus equiped.

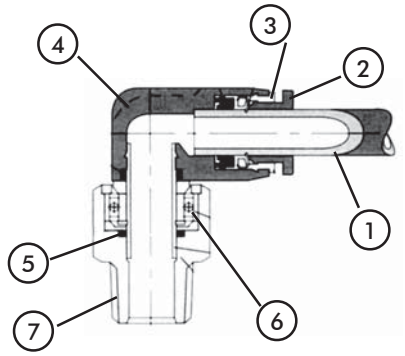
Working Principle



SPECIFICATIONS

Compatible Fluid Type	Air
Operating Pressure Range	0-10Kgf/cm^2
Negative Pressure	-750mmHg (10Torr)
Operating Temperature Range	0-60^{0}C
Recommended Tube Material	Polyurethane, Nylon and Teflon

Construction



No	Part	Series 8100
1	Tube	Refer Specification
2	Release ring	Nickel-Plated Brass
3	Collar	Nickel-Plated Brass
4	Body	Nickel-Plated Brass
5	O-Ring	NBR
6		Swivel Mechanism
7	Screw Thread Body	Nickel-Plated Brass

Ordering Code System

RPC ① 08 ② - 02 ③

① Model Type ② Tube outer Dia (ØD) ③ Thread Size (T)

Code	ØD
04	Ø4
06	Ø6
08	Ø8
10	Ø10
12	Ø12
14	Ø14
16	Ø16

Code	Thread
M3	M3 x 0.5
M5	M5 x 0.8
M6	M6 x 1.0
01	G1/8
02	G1/4
03	G3/8
04	G1/2

RPC Rotary Male Connector

Model	Thread (G)	Tube ØD (mm)
RPC 04-M3	M3	4
RPC 04-M5	M5	4
RPC 04-M6	M6	4
RPC 04-01	G1/8	4
RPC 04-02	G1/4	4
RPC 06-M5	M5	6
RPC 06-M6	M6	6
RPC 06-01	G1/8	6
RPC 06-02	G1/4	6
RPC 06-03	G3/8	6
RPC 06-04	G1/2	6
RPC 08-01	G1/8	8
RPC 08-02	G1/4	8
RPC 08-03	G3/8	8
RPC 08-04	G1/2	8
RPC 10-01	G1/8	10
RPC 10-02	G1/4	10
RPC 10-03	G3/8	10
RPC 10-04	G1/2	10
RPC 12-01	G1/8	12
RPC 12-02	G1/4	12
RPC 12-03	G3/8	12
RPC 12-04	G1/2	12
RPC 14-02	G1/4	14
RPC 14-03	G3/8	14
RPC 14-04	G1/2	14
RPC 16-03	G3/8	16
RPC 16-04	G1/2	16

RPCF Rotary Female Connector

Model	Thread (G)	Tube ØD (mm)
RPCF 04-M5	M5	4
RPCF 04-01	G1/8	4
RPCF 04-02	G1/4	4
RPCF 06-M5	M5	6
RPCF 06-01	G1/8	6
RPCF 06-02	G1/4	6
RPCF 06-03	G3/8	6
RPCF 06-04	G1/2	6
RPCF 08-01	G1/8	8
RPCF 08-02	G1/4	8
RPCF 08-03	G3/8	8
RPCF 08-04	G1/2	8
RPCF 10-01	G1/8	10
RPCF 10-02	G1/4	10
RPCF 10-03	G3/8	10
RPCF 10-04	G1/2	10
RPCF 12-01	G1/8	12
RPCF 12-02	G1/4	12
RPCF 12-03	G3/8	12
RPCF 12-04	G1/2	12
RPCF 14-02	G1/4	14
RPCF 14-03	G3/8	14
RPCF 14-04	G1/2	14
RPCF 16-03	G3/8	16
RPCF 16-04	G1/2	16

⚠ Caution

1. Employ usage in which the radial load becomes minimum. Radial load can shorten the life of your rotary fitting.
2. Use a Polyurethane tube where voilent swinging is involved. Nylon tube or other hard tubes may increase radial load.

RPL Rotary Male Elbow

Model	Thread (G)	Tube ØD (mm)
RPL 04-M3	M3	4
RPL 04-M5	M5	4
RPL 04-M6	M6	4
RPL 04-01	G1/8	4
RPL 04-02	G1/4	4
RPL 06-M5	M5	6
RPL 06-M6	M6	6
RPL 06-01	G1/8	6
RPL 06-02	G1/4	6
RPL 06-03	G3/8	6
RPL 06-04	G1/2	6
RPL 08-01	G1/8	8
RPL 08-02	G1/4	8
RPL 08-03	G3/8	8
RPL 08-04	G1/2	8
RPL 10-01	G1/8	10
RPL 10-02	G1/4	10
RPL 10-03	G3/8	10
RPL 10-04	G1/2	10
RPL 12-01	G1/8	12
RPL 12-02	G1/4	12
RPL 12-03	G3/8	12
RPL 12-04	G1/2	12
RPL 14-02	G1/4	14
RPL 14-03	G3/8	14
RPL 14-04	G1/2	14
RPL 16-03	G3/8	16
RPL 16-04	G1/2	16

RPT Rotary Male Branch Tee

Model	Thread (G)	Tube ØD (mm)
RPT 04-M3	M3	4
RPT 04-M5	M5	4
RPT 04-M6	M6	4
RPT 04-01	G1/8	4
RPT 04-02	G1/4	4
RPT 06-M5	M5	6
RPT 06-M6	M6	6
RPT 06-01	G1/8	6
RPT 06-02	G1/4	6
RPT 06-03	G3/8	6
RPT 06-04	G1/2	6
RPT 08-01	G1/8	8
RPT 08-02	G1/4	8
RPT 08-03	G3/8	8
RPT 08-04	G1/2	8
RPT 10-01	G1/8	10
RPT 10-02	G1/4	10
RPT 10-03	G3/8	10
RPT 10-04	G1/2	10
RPT 12-01	G1/8	12
RPT 12-02	G1/4	12
RPT 12-03	G3/8	12
RPT 12-04	G1/2	12
RPT 14-02	G1/4	14
RPT 14-03	G3/8	14
RPT 14-04	G1/2	14
RPT 16-03	G3/8	16
RPT 16-04	G1/2	16

Push-In One Touch Fittings - Series 9000 - Stop Cum Rotary Fittings

VAC Stop cum Rotary Fittings enable circuits and machinery to stay under pressure when being checked and maintained, and are designed to satisfy the requirements of industrial automation and robotics. The fittings feature a check valve and also low friction bearing mechanism enabling the fitting to rotate in conjunction with the requirement of the application. This prevents loss of air and also premature tube wear due to excessive flexing. The highly reliable technology used gives particularly long life expectany on all installation thus equiped. The working process of the stop fitting check valve is simple:

1. Prevents fluid flow when there is no tube connected
2. Conversely, when connected, the compressed air flow is restored in both directions.

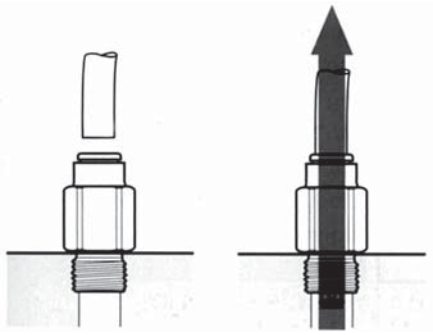
SRPC — Stop/Rotary Male Connector

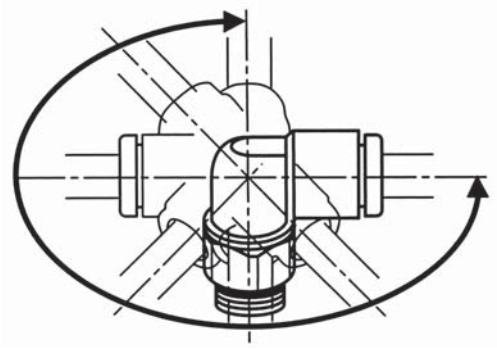
SPECIFICATIONS

Compatible Fluid Type	Air
Operating Pressure Range	0-10Kgf/cm^2
Negative Pressure	-750mmHg (10Torr)
Operating Temperature Range	0-60^{0}C
Recommended Tube Material	Polyurethane, Nylon and Teflon

Model	Thread (G)	Tube ØD (mm)
SRPC 04-01	G1/8	4
SRPC 04-02	G1/4	4
SRPC 06-01	G1/8	6
SRPC 06-02	G1/4	6
SRPC 06-03	G3/8	6
SRPC 06-04	G1/2	6
SRPC 08-01	G1/8	8
SRPC 08-02	G1/4	8
SRPC 08-03	G3/8	8
SRPC 08-04	G1/2	8
SRPC 10-02	G1/4	10
SRPC 10-03	G3/8	10
SRPC 10-04	G1/2	10
SRPC 12-02	G1/4	12
SRPC 12-03	G3/8	12
SRPC 12-04	G1/2	12
SRPC 14-02	G1/4	14
SRPC 14-03	G3/8	14
SRPC 14-04	G1/2	14
SRPC 16-03	G3/8	16
SRPC 16-04	G1/2	16

Working Principle





Notes