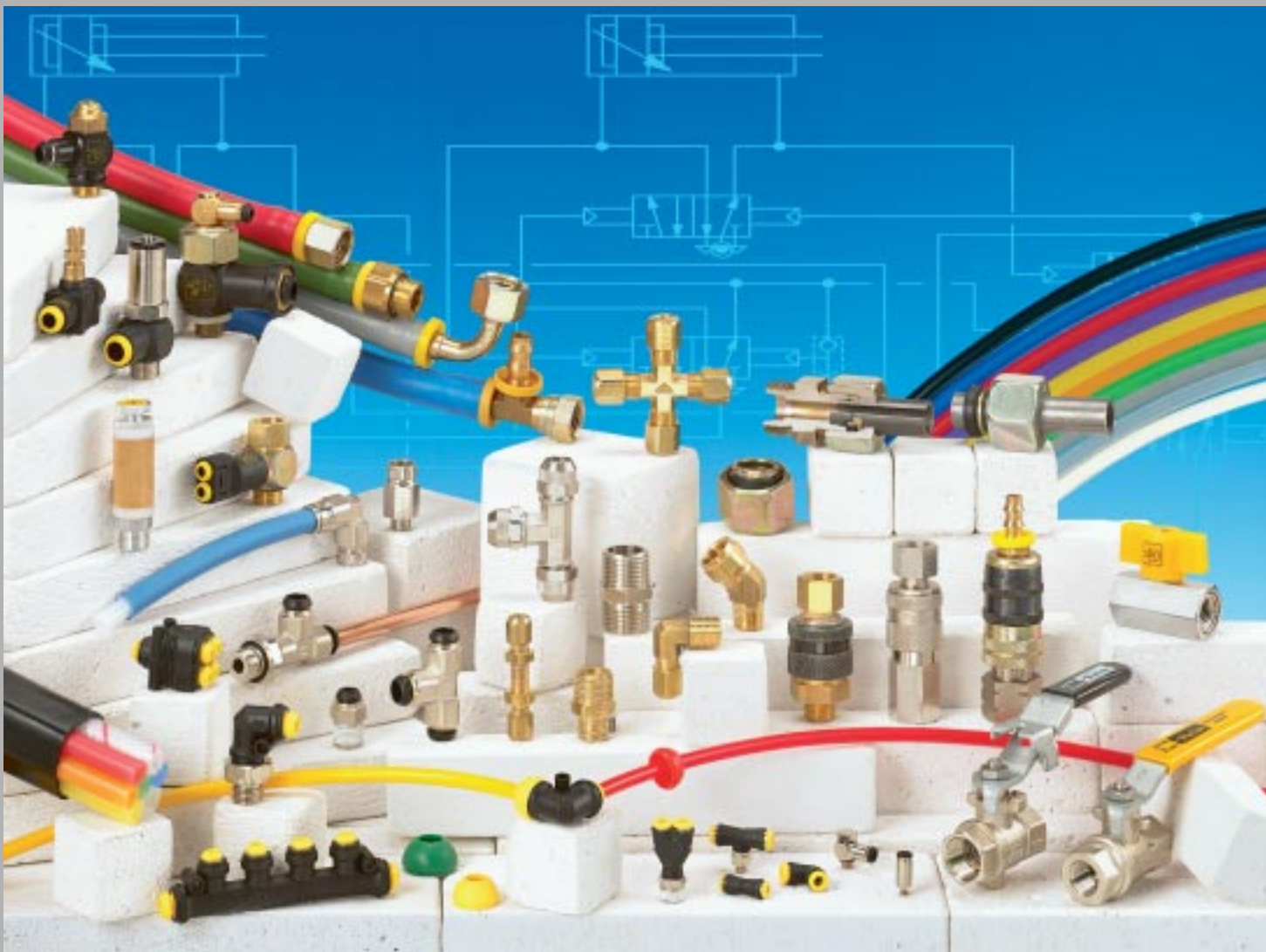


Pneumatic Connectors handbook

*Catalogue 0093-UK
January 2002*



Selection guide

Application					Working pressure							Tube					Ermeto		Hose				
Pneumatic automation	Pneumatic power	Pneumatic copper tube installations	Industrial fluids	Aggressive environments	Primary vacuum - 0 bar	0 - 10 bar	10 - 16 bar	16 - 18 bar	18 - 25 bar	25 - 40 bar	40 - 60 bar	60 - 100 bar	Polyurethane tube	PEBA tube	Polyethylene tube	Polyamide 11/12 tube	Copper tube	Steel	Stainless Steel	Synthetic rubber	Polyurethane		
•	•				•	•	•	•					•	•	•	•							Prestolok 2
•	•				•	•	•						•	•	•	•							Prestolok Micro
•	•		*	•	•	•	•	•	•				•	•	•	•	•						Prestolok
•	•			(2)	•	•	•	•	•							**							Prestoweld 2
•	•					•							•	•	•	•							Pneu. int. funct. ftgs.
•	•	•	•	*	•	•	•	•	•	•	•	•				•	•						Metrulok
•	•			•	•	•	•	•	•	•	•		•	•	•	•							PL
•	•	•	•		•	•	•	•	•	•	•					•	•	•	•				Ermeto
•	•	•	•		•	•	•	•	•	•	•		(1)	(1)	(1)	(1)							Brass adaptors
•	•	•	•		•	•	•	•	•	•	•		(1)	(1)	(1)	(1)							Brass adapt. for automotive industry
•	•	•	•		•	•	•	•					(1)	(1)	(1)	(1)							Pneumatic adaptors
•	•	•	•			•	•	•	•	•			(1)	(1)	(1)	(1)	(1)						Ball valves
•	•	•	•			•	•	•	•	•			(1)	(1)	(1)	(1)	(1)						Quick couplings
•	•		•			•	•	•	•											(1)	(1)		Hose and fittings
•	•		•			•	•	•	•	•	•	•	•	•									Ther. Sing. tub. and Pn.-TU.Bu.

* Chemical nickel plated only. ** Prestoweld 2 tubing only

(1) Available with threaded ends only. Depends on fitting type used to connect to the tube.

(2) Welding sparks.

For your safety!

Under certain circumstances, tube fittings can be subjected to extreme loadings such as vibration and uncontrolled pressure peaks.

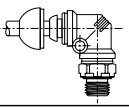
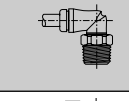
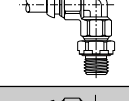
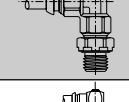
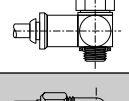
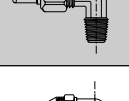
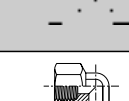
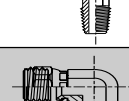


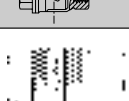




Only by using genuine Parker components and following the Parker assembly instructions can you be assured of the reliability and safety of the products and their conformity to the applicable standards.

Failure to follow this rule can adversely affect the functional safety and reliability of products, cause personal injury, property damage, and result in loss of your guarantee rights.

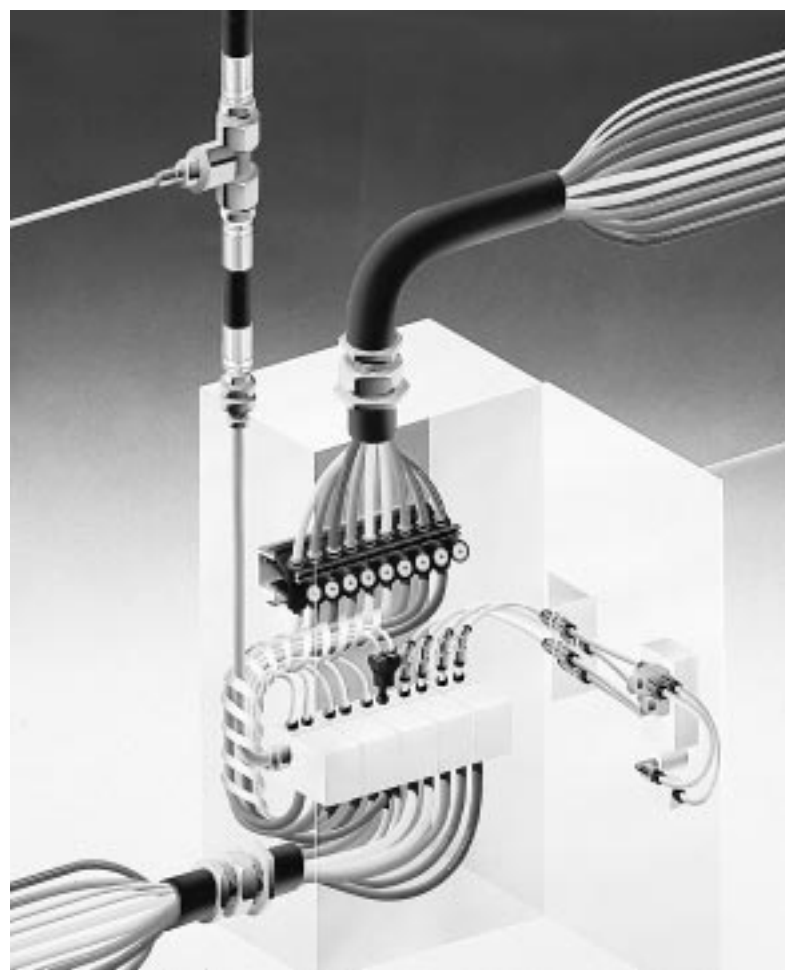
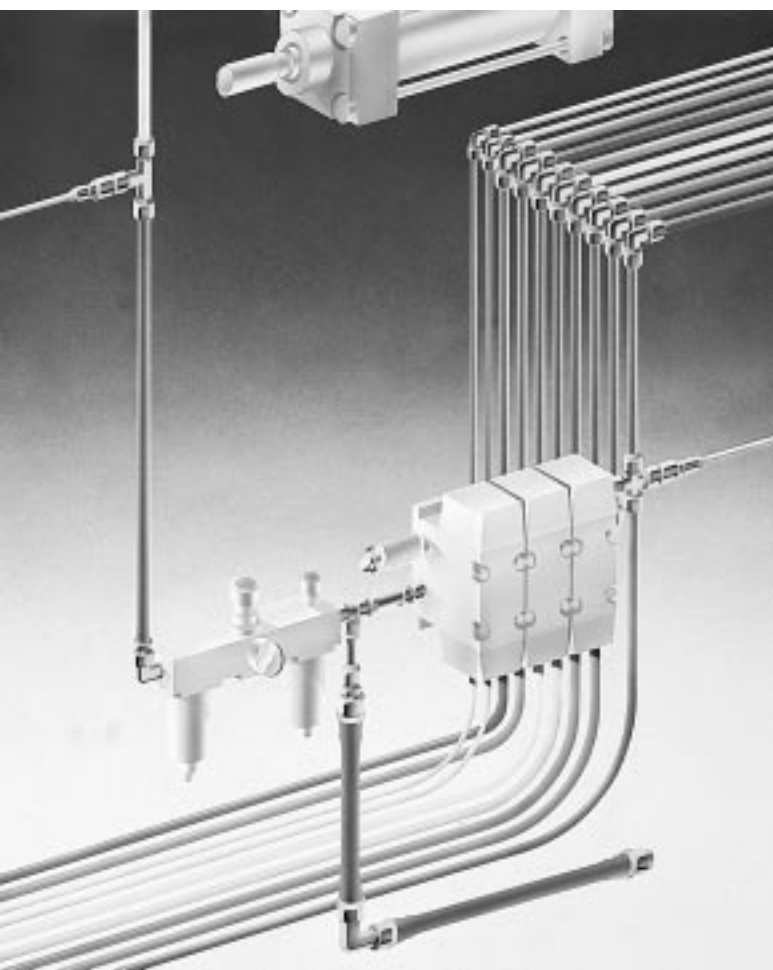
In any case, guarantee is limited only to the Parker products.

For more detailed information, please consult the section corresponding to the selected product from this catalogue.

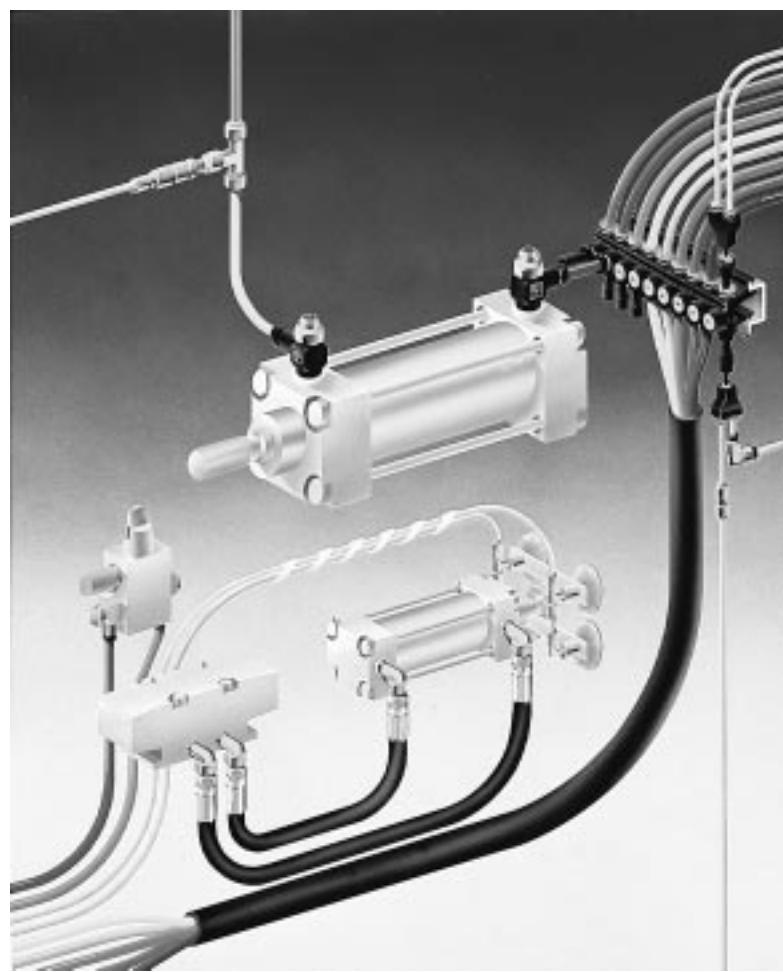
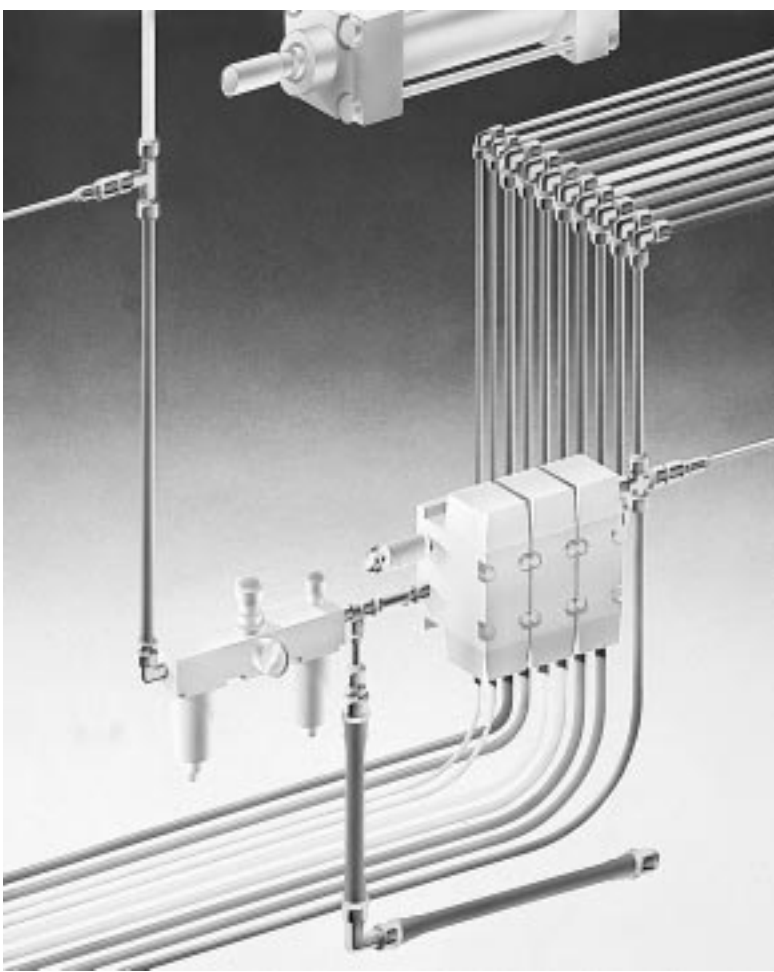
General index (an index by part number is also available at the end of this catalogue)

Design manual	Technical data, pneumatic system calculations, installation guide.		A
Prestolok 2	Push-in fitting with thermoplastic body and protective cap for pneumatic applications.		B
Prestolok Micro	Mini push-in fitting with thermoplastic body for miniature pneumatic applications.		C
Prestolok	Brass push-in fitting for fluid and arduous pneumatic applications.		D
Prestoweld 2	Spark resistant push-in fittings.		E
Pneumatic integrated function fittings	A complete range from flow control to end of stroke pressure sensors.		F
Metrulok	Ready for use brass bite type fitting for use with copper or plastic tubing.		G
PL	A two piece fitting specifically designed for plastic tubing.		H
Ermeto	Bite type fitting for use with metal or plastic tubing.		I
Brass adaptors	A wide range of configurations and thread terminations.		J
Brass adaptors for automotive industry	A wide range of adaptors for air and water cooling circuits for welding applications.		K
Pneumatic adaptors	A wide range of adaptors for pneumatic applications.		L
Ball valves	Brass ball valves for many fluid handling applications.		M
Quick couplings	Brass and steel quick couplings, as well as blow guns for all pneumatic applications.		N
Push-Lok hose and fittings	Low-pressure ; self-grip hose without clamps.		O
Thermoplastic single tubes and Pneumo-Tube bundles	Polyamide, Polyethylene, Polyurethane tubing for all pneumatic applications.		P
Accessories	Accessories for pneumatic installations.		Q





Pneumatic connectors design manual



Pneumatic connectors design manual

Pneumatic connectors design manual

Index		Pages
The Parker pneumatic connection system		A 2 - A 3
Thread configurations	BSPP and BSPT pipe threads	A 4
	ISO metric pipe threads	A 5
	UNF threads	A 6
	NPT threads	A 7
The sealing of threaded connections	Parallel threads	A 8
	Taper threads	A 9
Threaded connections and corrosion	Atmospheric corrosion	A 10
	Compatibility of different base metals	A 11
Hose and tubing used in pneumatics	Polyamide tubing / PEBA tubing	A 12
	Polyurethane tubing	A 13
	Hoses	A 13 to A 15
	Copper and steel tube	A 15
Pneumatic system calculations	Power losses	A 16
	Calculation of flow rate	A 17
	Orifice diameter for different cylinders	A 18
	Cylinder response time	A 19
	Air admission time	A 19
	Maximum recommended flow	A 20
	Pressure drop through shaped components	A 20
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Installation guidelines		A 22 to A 25
Pneumatic control	Cylinders, integrated fittings (flow control valves, check valves, exhaust valves, silencers)	A 26 - A 27
Connectors for pneumatic systems	Brass push-in fittings	A 28
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Pneumatic symbols		A 32 to A 34
Pneumatic Quick Coupling profiles		A 35

The Parker pneum

The Parker pneumatic connection system

For more than 60 years, Parker has developed and manufactured the most complete range of components to serve hydraulic and pneumatic markets.

The specific range of pneumatic connectors is designed and manufactured in accordance with international standards to meet market requirements.

The objective of this manual is to aid the design engineer in the selection of pneumatic connectors for specific or general applications, dependant upon the individual constraints of the system.

The information enclosed should be considered as a basic guideline only. For further detailed information with regard to pneumatic systems, please contact your Parker sales engineer.

Push-Lok Hose and fittings :

low pressure, self grip hose
Assembly without clamps
or special tools

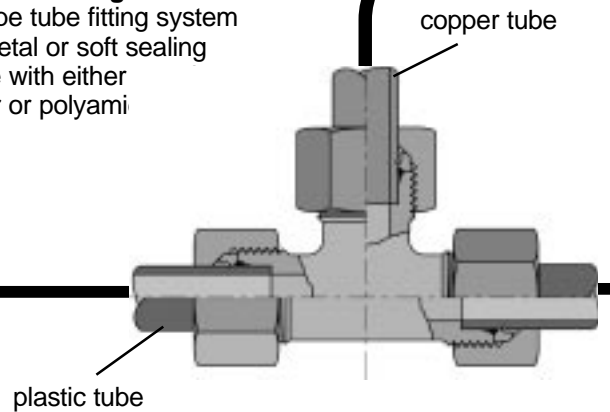


Blow Guns :
with or without
safety valving

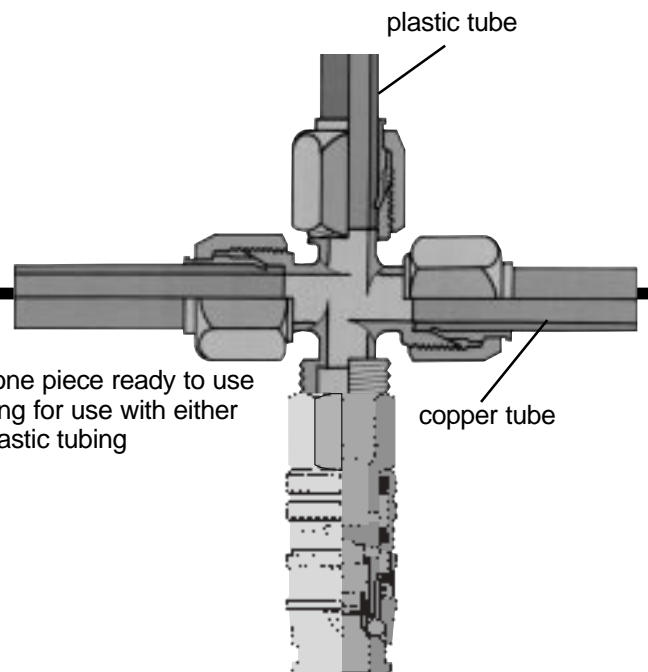


EO Ermeto Original:

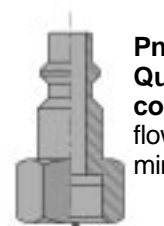
Bite type tube fitting system
with metal or soft sealing
for use with either
copper or polyami



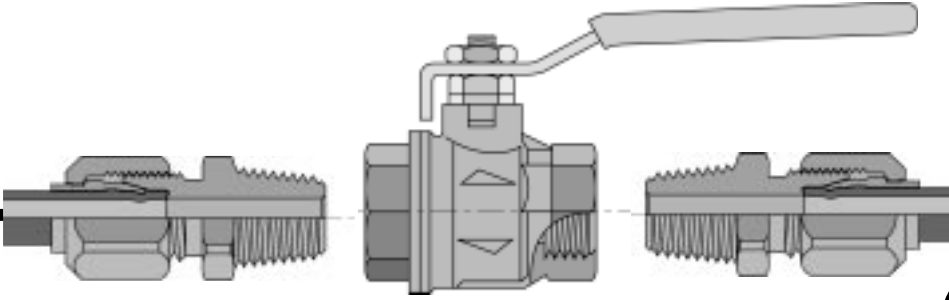
Metrulok : one piece ready to use
bite type fitting for use with either
copper or plastic tubing



**Pneumatic
Quick
couplings :**
flow from 550/
min



atic fitting system



Ball Valves :
a wide range for many
pneumatic applications

Prestolok Micro :
Miniature push in fitting for polyamide
and polyurethane tubing.



Prestolok 2 :
Push-in fitting with protective cap for
polyamide and polyurethane tubing.



Prestolok :
Push-in fitting for polyamide,
polyurethane and copper tubing



Prestoweld 2 :
Spark resistant push-in fittings



**Thermoplastic
single tubes
and Pneumo
Tube bundles**

PL : two piece fitting for all types of
plastic tubing.

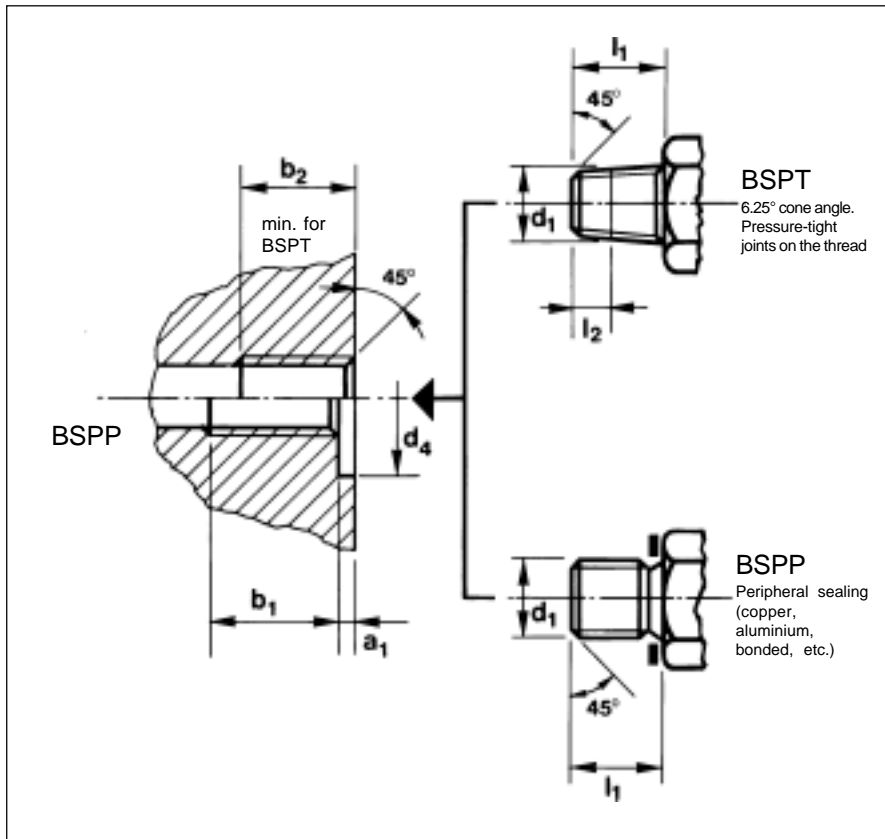


Pneumatic connectors design manual

Thread configurations

A

BSP threads



BSPP and BSPT pipe threads

BSPP and BSPT threads have a thread angle of 55° and are the most widely used fastening threads in pneumatic applications.

The spot face surface must be square to the pitch diameter and free from longitudinal and spiral tool marks.

BSPP - British Standard Pipe Parallel threads for tubes and fittings where pressure-tight joints are not made on the thread, i.e., a peripheral seal is used.

BSPT - British Standard Pipe Taper threads for tubes and fittings where pressure-tight joints are made on the threads.

It is accepted practice to fit a BSPT BS 21 male thread into a BSPP female DIN 3852 port tapping for pneumatic applications. In certain exceptional cases the port may also be tapered.

Thread standards

BSPP thread to :

ISO 228-1

BS2779

DIN 3852-2 - Form A,B,E

NF E 03-005

BSPT thread to :

ISO 7

BS 21

DIN 3852-2 - Form C

NF E 03-004

Screwed studs and tapped holes to DIN 3852, form X, Z

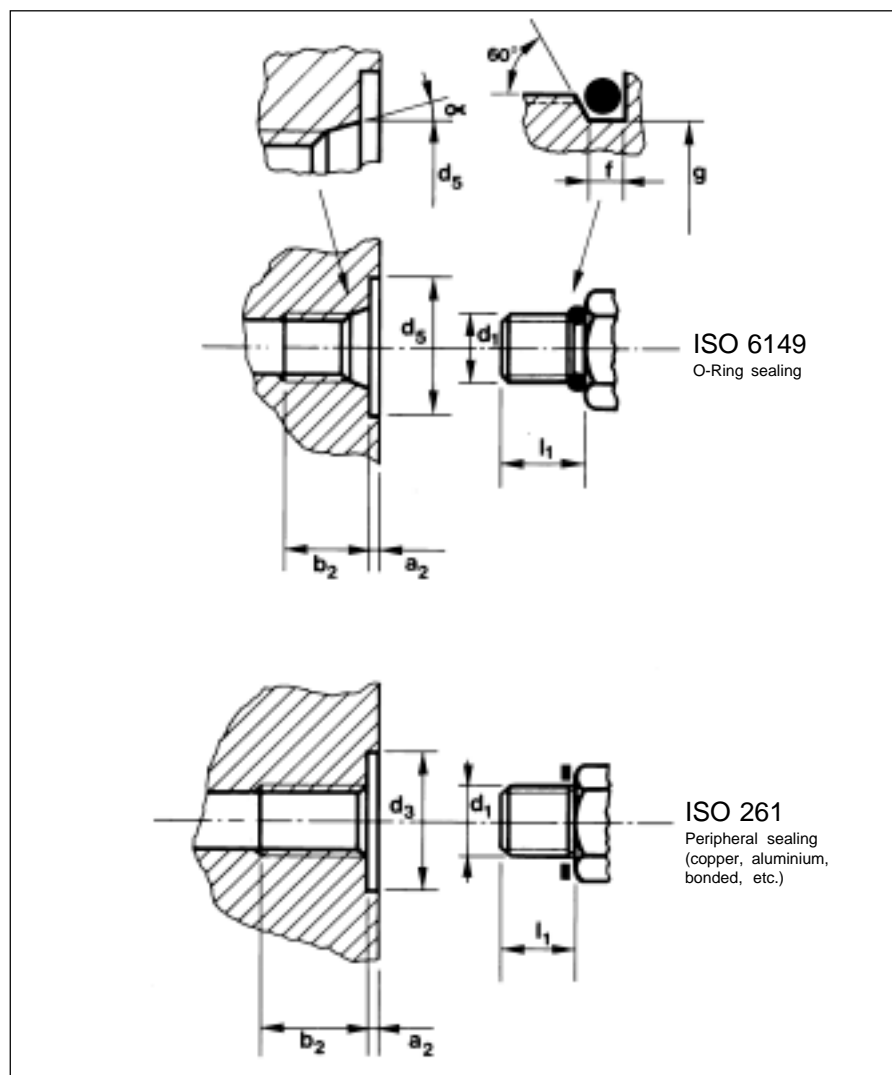
BSPP	BSPT	Threads per inch	d ₁	l ₂ nominal	d ₄ min.	a ₁ max.	l ₁ max.	b ₁ min.	b ₂ min.
Rs 1/8	R 1/8	28	9.73	3.97	15	1	8	8	5.5
Rs 1/4	R 1/4	19	13.16	6.05	19	1.5	12	12	8.5
Rs 3/8	R 3/8	19	16.66	6.35	23	2	12	12	8.5
Rs 1/2	R 1/2	14	20.95	8.16	27	2.5	14	14	10.5
Rs 3/4	R 3/4	14	26.44	9.2	33	2.5	16	16	13.0
Rs 1	R 1	11	33.25	10.39	40	2.5	18	18	-
Rs 1.1/4	R 1.1/4	11	41.91	12.7	50	2.5	20	20	-
Rs 1.1/2	R 1.1/2	11	47.80	12.7	56	2.5	22	22	-

Note

The letters "Rs" are the accepted designation for a BSPP thread and the letter "R" represents a BSPT thread.

Thread configurations

ISO metric pipe threads



ISO metric pipe threads

ISO metric pipe threads have a thread angle of 60°.

They have mostly been used in miniature pneumatic applications because of the availability of small thread diameters, especially M5 and M3*.

They are also used extensively in the automotive industry.

There are two forms of sealing on metric threads.

1. O-Ring sealing into a profiled port in accordance with ISO 6149
2. Peripheral sealing eg copper or bonded washer in accordance with ISO 261 and 262

Thread standards

O-Ring sealing :
ISO 6149
DIN 3852 - Form F

Peripheral sealing :
ISO R261 and R262
DIN 3852-1 - Form G
NF E03-013

Seals :
DIN 7603
NF E21 - 351

Ports :
DIN 3852 - Part 3

* M3, M5 and M20 threads are not included in the ISO specification

d_1	l_1	f	g	d_3	d_5	α°	b_2	a_2	Seal
M3x0.5**	3.25	-	-	6.5	6.5	-	4.0	1.0	-
M5x0.8**	8.0	1.5	3.80	14	6.35	12	8.0	1.0	3.6x1.5
M8x1	10.0	1.5	6.55	17	9.10	12	10.0	1.0	6.2x1.5
M10x1	10.0	1.5	8.55	20	11.1	12	10.0	1.0	8.2x1.5
M12x1.5	11.5	2.3	9.85	22	13.8	15	11.5	1.5	9.4x2.1
M14x1.5	11.5	2.3	11.85	25	15.8	15	11.5	1.5	11.4x2.1
M16x1.5	13.0	2.3	13.85	27	17.8	15	13.0	1.5	13.4x2.1
M18x1.5	14.5	2.3	15.85	29	19.8	15	14.5	2.0	15.4x2.1
M20x1.5**	14.0	2.3	17.85	32	21.8	15	14.0	2.0	17.4x2.1
M22x1.5	15.5	2.3	19.85	34	23.8	15	15.5	2.0	19.4x2.1

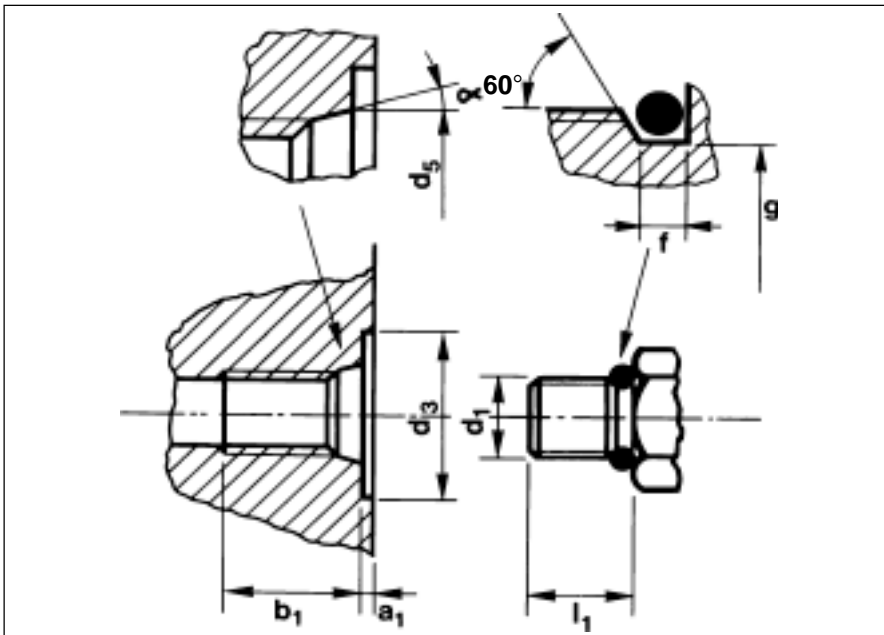
** Not ISO 6149

Pneumatic connectors design manual

Thread configurations

A

UNF threads



UNF threads

The Unified thread has a thread angle of 60°, and is normally used in hydraulic applications. It also referred to as the "ISO inch size thread".

UNF - Unified Fine threads for connections where pressure-tight joints are not made on the threads, i.e., a peripheral seal is used.

Reference example : 3/8-24-UNF2B

3/8 = diameter

24 = number of threads per inch

A = external threads

B = internal threads

1 = low precision

2 = general purpose

3 = high precision

Thread standards

SAEJ514 (male threads)

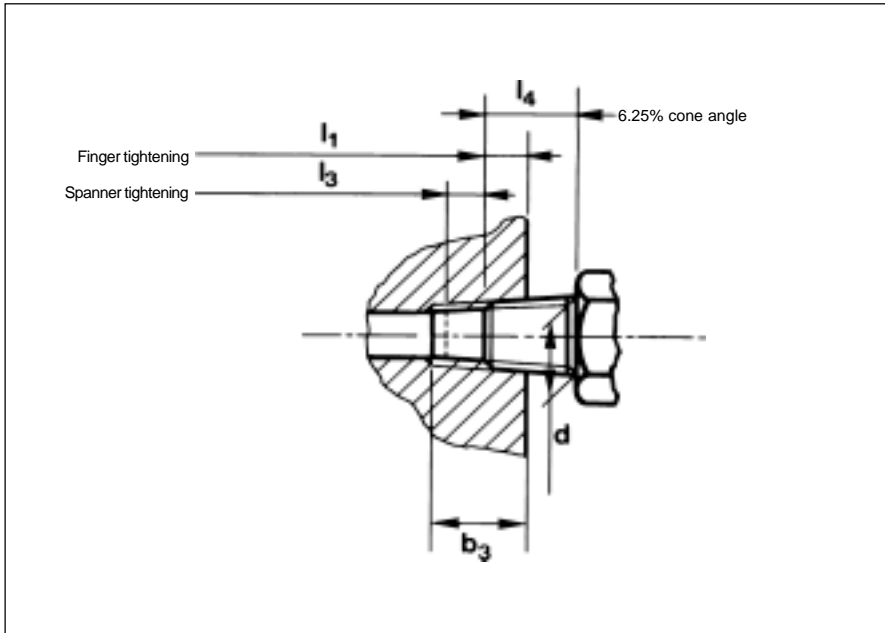
SAEJ1926 (female port)

Thread size and threads per inch	SAE module		d_1	d_3 min.	d_5	b_1 min.	a_1	f	g	l_1	α°	O-ring	
												ID	Section
5/16-24 UNF	-2	mm	7.94	17	9.1	10	1.6	1.6	6.35	7.54	12	6.07	1.63
		inch	.310	.672	.358	.390	.062	.063	.250	.297		.239	.064
3/8-24 UNF	-3	mm	9.53	19	10.7	10	1.6	1.6	7.95	7.54	12	7.65	1.63
		inch	.380	.750	.421	.390	.062	.063	.313	.297		.301	.064
7/16-20 UNF	-4	mm	11.11	21	12.4	11	1.6	1.9	9.25	9.14	12	8.92	1.83
		inch	.440	.828	.487	.450	.062	.075	.364	.360		.351	.072
1/2-20 UNF	-5	mm	12.7	23	14	11	1.6	1.9	10.85	9.14	12	10.52	1.83
		inch	.500	.906	.550	.450	.062	.075	.427	.360		.414	.072
9/16-18 UNF	-6	mm	14.28	23	15.6	13	1.6	2.1	12.24	9.93	12	11.89	1.98
		inch	.560	.969	.616	.500	.062	.083	.482	.391		.468	.078
3/4-16 UNF	-8	mm	11.05	30	20.6	14	2.4	2.4	16.76	11.13	15	16.36	2.21
		inch	.750	1.188	.811	.560	.940	.094	.660	.438		.644	.087
7/8-14 UNF	-10	mm	22.22	34	23.9	17	2.4	2.7	19.63	12.7	15	19.18	2.46
		inch	.870	1.344	.942	.660	.940	.107	.773	.500		.755	.097
1.1/16-12 UN	-12	mm	26.99	41	29.2	19	2.4	3.2	27.18	15.09	15	23.47	2.95
		inch	1.060	1.625	1.148	.750	.940	.125	.945	.594		.924	.116
1.3/16-12 UN	-14	mm	30.15	45	32.3	19	2.4	3.2	27.18	15.09	15	26.59	2.95
		inch	1.190	1.765	1.273	.750	.940	.125	1.070	.594		1.047	.116
1.5/16-12 UN	-16	mm	33.34	49	35.5	19	3.2	3.2	30.35	15.09	15	29.74	2.95
		inch	1.310	1.910	1.398	.750	.125	.125	1.195	.594		1.171	.116

(8/16 = 1/2 = 12,7 = DN12)

Thread configurations

NPT threads



NPT threads

The National Pipe Taper thread has a thread angle of 60°, and is mainly used in the petrochemical and process industries.

NPT - National Pipe Taper threads for connections where pressure-tight joints are made on the threads utilising a thread sealant.

NPTF - National Pipe Taper Fuel threads for connections where pressure-tight joints are made on the threads, without a thread sealant.

Thread standards

SAE J 476 - B2
NFE 03-061

Thread size	Threads per inch	d	l_1	l_3		l_4	b_3
				Threads	mm		
1/8	27	10.48	4.10	3	2.82	9.97	6.92
1/4	18	14.00	5.79	3	4.23	15.10	10.02
3/8	18	17.42	6.10	3	4.23	15.26	10.33
1/2	14	21.71	8.13	3	5.44	19.85	13.57
3/4	14	27.12	8.61	3	5.44	20.15	14.50
1	11 1/2	33.88	10.16	3	6.63	25.01	16.79
1.1/4	11 1/2	42.59	10.67	3	6.63	25.62	17.30
1.1/2	11 1/2	48.66	10.67	3	6.63	26.04	17.30

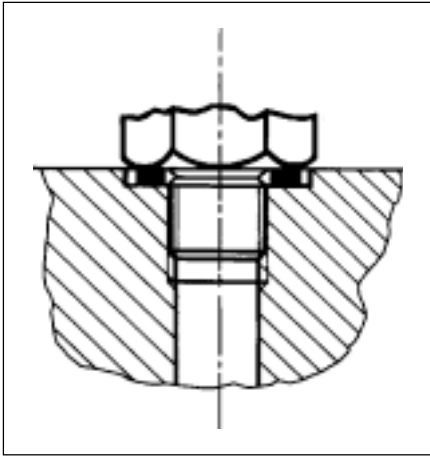
Pneumatic connectors design manual

The sealing of threaded connections

A

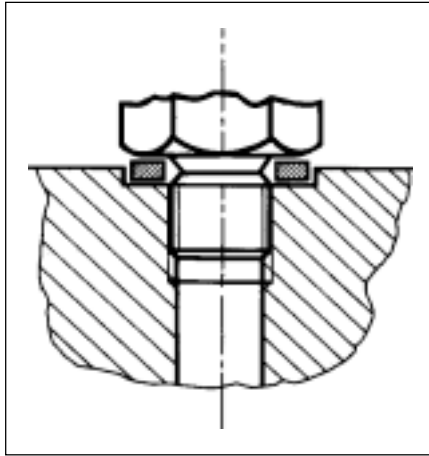
Peripheral sealing of parallel threads

Pressure-tight joints for screwed connections with parallel threads are achieved by placing a seal between the two machined faces

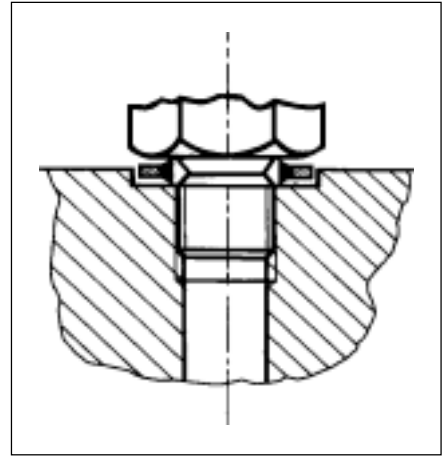


Flat seals

Washers and rings are manufactured in many different materials including copper, aluminium, fibre, plastics, etc.

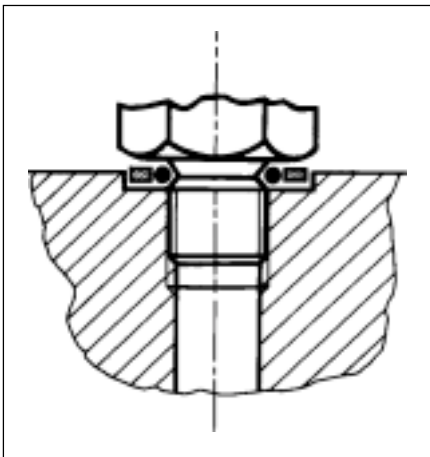


The tightening torque at assembly must be carefully selected so as to avoid compressing the seal to the point of extrusion. As a general rule, the fitting should be tightened with a spanner 1/4 turn from the fingertight position.



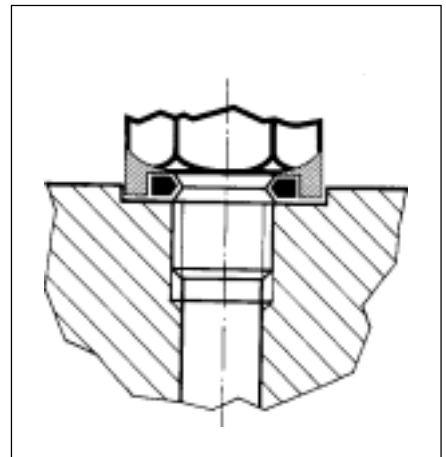
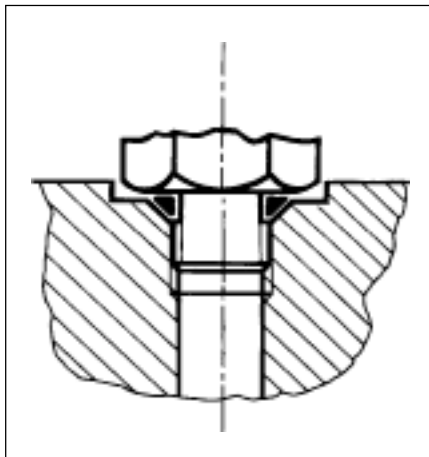
Bonded seals

Elastomer sealing rings bonded into metal washers. Bonded seals are reusable, and cater for a variation in the dimensional tolerances of the machined surfaces.



O-rings

Dependant upon the configuration of the female port or male thread, O-ring seals are fitted with or without back-up washers.



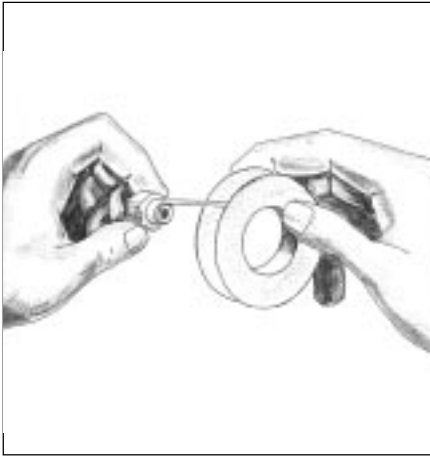
Captive seal

A fully retained O-ring seal is assembled in the fitting. This ensures correct alignment. On metric threads it is possible to use this sealing method on both ISO 261/262 and ISO 6149 ports.

The sealing of threaded connections

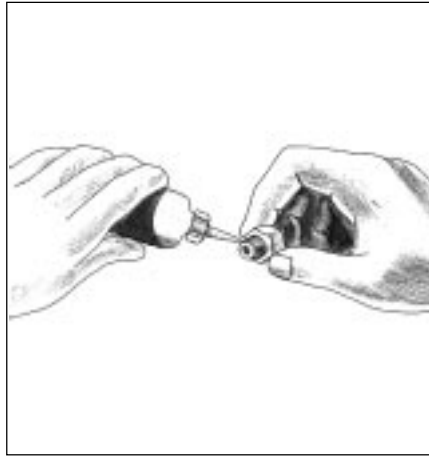
Interference sealing of taper threads

Pressure-tight sealing of screwed connections with taper threads is achieved by the application of a sealant to the surface of the external male thread.



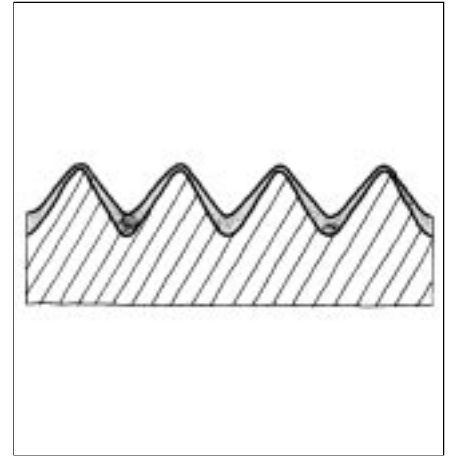
PTFE tape

One or two layers of PTFE tape are wound around the external taper thread, prior to assembly. It is recommended to leave the first two threads uncovered to avoid tape fragments entering the circuit during assembly, causing the possible malfunction of valves, filters, etc.



Sealing compounds and liquid sealants.

Apart from polymer joint compounds and air-drying liquid sealants, the most common thread seal is an anaerobic synthetic resin which cures in the absence of air. Following assembly and tightening, the curing process is induced by a catalytic reaction between the resin and the metal. Resins that contain PTFE ease disassembly. For applications in food related industries, the thread sealant must be to a specified food-grade. Connections are normally ready for operation after one hour's curing time. Complete curing may take up to 24 hours. Disassembly of the connection destroys the sealing surface.



Parker pre-coated taper threads

Parker taper threads are pre-coated with a solution of PTFE powder carried in an acrylic base. No additional sealant is necessary for an effective seal during assembly. The male pipe thread can be reused up to five times without the use of additional sealing material.

Pneumatic connectors design manual

Threaded connections and corrosion

Corrosion within pneumatic circuits and its consequences - piston seizing, leakage, jamming of control valves, reduced efficiency etc., is due to the combined action of atmospheric and electrolytic corrosion, the latter being largely predominant in pneumatic systems. In the electrolytic process, the water contained in the ambient relative humidity of the air plays the role of the electrolyte. The galvanic action is the result of the potential difference :

Fig. 1 - potential difference between metals ; Fig. 2 - electrolyte concentration differential ; Fig. 3 and Fig. 4 - air and oxygen content differentials.

In threaded connections the three forms of electrolytic corrosion can occur in a number of combinations. In order to avoid corrosion two general principles should be applied.

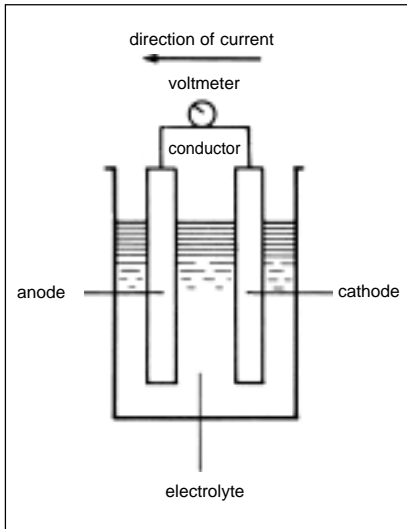


Fig. 1 - Potential difference between metals

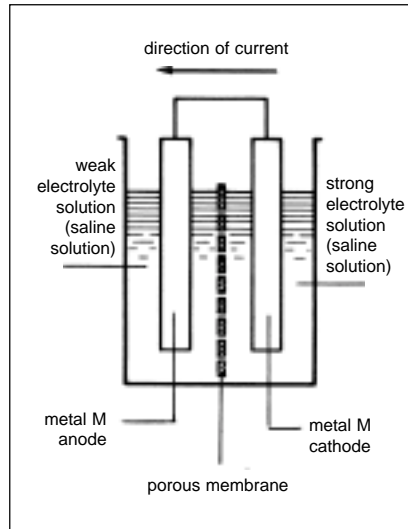


Fig. 2 - Electrolyte concentration differential

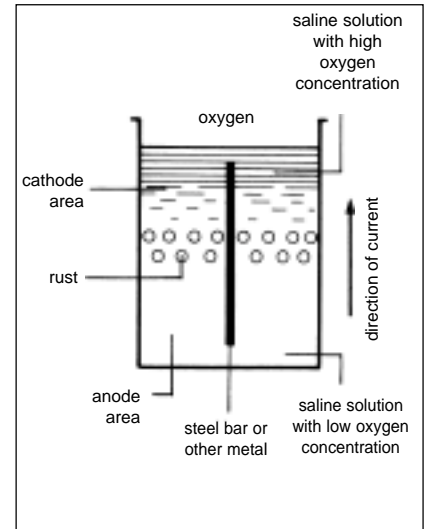


Fig. 3 - Air and oxygen content differentials

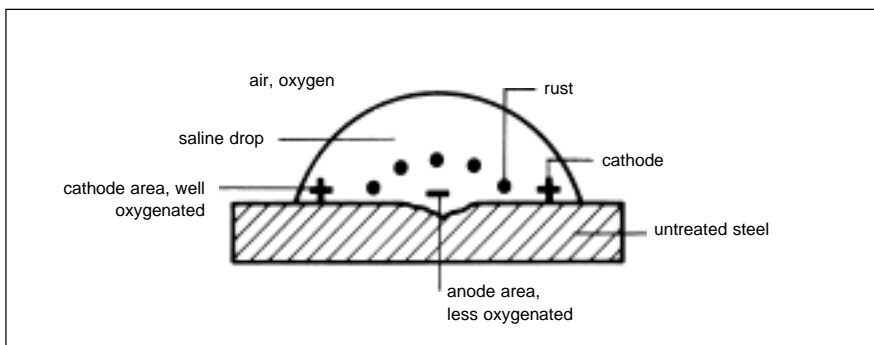


Fig. 4 - Principle of corrosion with different oxygen concentrations.

Threaded connections and corrosion

First rule : compatibility of different base metals

The susceptibility of different base metals to corrosion whilst in contact, depends upon the difference between the contact potentials, or the electrolytic decomposition voltages of the metal involved. The greater the potential difference, the greater the tendency for corrosion. The metal with the higher negative potential forms the anode and is corroded.

Examples :

- brass on copper = very slight corrosion

- brass on zinc = heavy corrosion

- steel on zinc = medium corrosion

- steel on copper = heavy corrosion

Non-passivated stainless steel has a decomposition voltage of about 0.70 volts and is attacked vigorously by copper or brass.

Passivated stainless steel has a reduced decomposition voltage of - 0.24 volts. Passivation is obtained by the direct oxidation of the chromium compounds contained in the steel. Surface damage from scratches, solder or other contaminants will expose the base metal, and reactivate the higher decomposition voltage.

	Metal	Electropotential volts		
↑ anodes	Magnesium alloy G-A3Z1	- 1.770	↑ corrosion	
	Magnesium alloy G-A9	- 1.625		
	Zinc (as galvanized coating)	- 0.975		
	Aluminium alloy A-Z4G (T35)	- 0.905		
	Aluminium alloy A-Z8GU (AZ2 plated)	- 0.900		
	Aluminium	- 0.785		
	Aluminium alloy A-Z5GU (not plated)	- 0.775		
	Aluminium alloy A-G3 (with chrome)	- 0.760		
	Aluminium alloy A-G5 (with chrome)	- 0.755		
	Aluminium alloy A-U4SG	- 0.730		
Steel XC 18 S	- 0.700	↓ corrosion free		
Cadmium (AS plating)	- 0.690			
Aluminium alloy A-U4G	- 0.585			
Lead	- 0.535			
Chrome (as plating)	- 0.460			
Tin	- 0.425			
Tin solder	- 0.400			
Brass U-Z15 NS	- 0.360			
Titanium alloy 65 A	- 0.340 to - 0.285			
Brass U-Z33	- 0.250			
Chemical nickel	- 0.292	↓ corrosion free		
Stainless steel 18/8 (passivated)	- 0.240			
Copper (99,9%)	- 0.230			
Nickel	- 0.175			
Rhodium	- 0.114			
Platinum	0			
Silver	+ 0.150			
Gold	+ 0.400			
↓ cathodes				

Second rule : dry compressed air

Water acts as an electrolyte, and a close relationship exists between the relative humidity of air and electrolytic corrosion.

The mass of water vapour contained in the air is measured in grams "g" of water vapour, per unit volume (1 m³) of air. The saturation temperature or dew point, is the temperature at which the relative humidity of the air is 100%. The corresponding mass of water vapour has an upper limit which is dependant upon, and increases with, temperature (see table).

Cooling below the saturation temperature causes condensation through the formation of water droplets.

In practice, electrolytic corrosion becomes significant when the relative humidity of the ambient air is in excess of 50%.

Example :

At an ambient temperature of 20°C, with an average 60% relative humidity of the air, a compressor delivering 1 000 Nm³/h of air, at a pressure of 7 bar, draws in 10.3 kg of water per hour.

$$17.14 \times 0.6 = 10.3 \text{ g/m}^3$$

$$1\ 000 \text{ Nm}^3 \times 10.3 \text{ g} = 10.3 \text{ kg/h}$$

This example indicates the importance of arranging for adequate cooling and drying of compressed air.

Mass of water vapour at 100% relative humidity											
Temperature in °C Dew point	-30	-20	-10	0	10	20	30	40	50	60	80
Water vapour max. (saturation) g/m ³	0.33	0.88	2.15	4.86	9.35	17.14	30.07	50	82.25	129	290

Pneumatic connectors design manual

A

Hose and tubing used in pneumatics

Polyamide tubing

Parker calibrated polyamide tubing is extruded in polyamide (PA11) for use with pneumatic fittings.

This tubing is manufactured within the limits of CETOP RP54P / DIN 73378 recommendations, and is ideal for pneumatic applications.

For continual use at high temperature we recommend tube which is protected against heat and light.

Advantages

- Good vibration/damping properties,
- Tubing available in several colours for easy identification,
- High abrasion resistance,
- Low pressure drop,
- No thermal expansion.

Technical characteristics

Working pressure

The working pressure of polyamide tubing is dependant on the operating temperature. The working pressures shown are based on a design factor of 3:1

Working pressure (bar)												
Tube size \ Temp. °C.	-40	-20	0	20	30	40	50	60	70	80	90	100
3 x 0.60	27	27	27	27	22	19	17	15	14	13	12	10
4 x 0.65	21	21	21	21	18	15	14	12	11	10	9	8
4 x 1	39	39	39	39	32	28	25	22	20	18	17	14
5 x 1	29	29	29	29	24	21	19	17	15	14	13	10
6 x 1	24	24	24	24	20	17	15	13	12	11	10	8
8 x 1	17	17	17	17	14	12	11	10	9	8	8	6
10 x 1	13	13	13	13	11	10	9	8	7	6	6	5
10 x 1.25	18	18	18	18	15	13	11	10	9	8	8	6
10 x 1.5	22	22	22	22	18	16	14	13	11	10	10	8
12 x 1	22	22	22	22	18	16	14	13	11	10	10	8
14 x 1.5	11	11	11	11	9	8	7	6	6	5	5	4
16 x 1.5	15	15	15	15	12	11	10	9	8	7	7	5

Burst pressure (bar)													
Tube size \ Temp. °C.	-40	-20	0	20	30	40	50	60	70	80	90	100	
3 x 0.60	81	81	81	81	67	58	52	46	42	38	36	29	
4 x 0.65	64	64	64	64	53	46	41	37	33	30	28	23	
4 x 1	116	116	116	116	96	83	74	66	60	54	51	42	
5 x 1	87	87	87	87	72	63	56	50	45	41	38	31	
6 x 1	71	71	71	71	59	51	45	40	37	33	31	25	
8 x 1	52	52	52	52	43	37	33	29	27	24	23	19	
10 x 1	40	40	40	40	33	29	26	23	21	19	18	15	
10 x 1.25	53	53	53	53	44	38	34	30	27	25	23	19	
12 x 1	33	33	33	33	27	24	21	19	17	16	15	12	
14 x 1.5	45	45	45	45	37	32	29	26	23	21	20	16	
16 x 1.5	39	39	39	39	32	28	25	22	20	18	17	14	

For chemical compatibility of polyamide tubing, please consult your Parker sales engineer.

PEBA tubing (Polyether Block Amides)

PEBA tubing is manufactured from a compound of soft polyethers and hard polyamides.

The tubing is produced in various grades and can be protected against heat and light with appropriate additives.

Advantages of PEBA tubing

- PEBA tubing has additional advantages over polyamide :
- Greater flexibility than PA 12
 - Suitable for an operational temperature range of - 40 to + 80°C.
 - Excellent resistance to creep under load.

Chemical resistance

Fluid	Test condition	Result
Boiling water	7 days/100°C	A
Oil	7 days/120°C	A
Gasoline premium	7 days/23°C	B
Acetone	7 days/23°C	A
Trichlorethylene	7 days/23°C	B

A = excellent - B = medium

Hose and tubing used in pneumatics

Polyurethane tubing

Parker calibrated polyurethane tubing is obtained by extrusion. Its material hardness is 95 Shore A (slightly higher than 40 Shore D). This tubing is manufactured within the limits of NF E49 101 1994.

Its very high flexibility allows a small minimum bend radius for compact installations.

A dimensional inspection system based on advanced laser technology maintains a tight tolerance on the outside tube diameter.

Advantages

- Extreme flexibility with bend radii up to three times better than polyamide tubing allows for compact installations,
- Tube available in several colours for line identification,
- Good vibration resistance,
- Light weight,
- Reduced fitting time.

Technical characteristics

Working pressure

The working pressure of polyurethane tubing is dependant on the operating temperature. The working pressure shown are based on a design factor of 3:1.

Working pressure (bar)										
Temp. °C.	-40	-20	0	20	30	40	50	60	70	80
3 x 0.45	10	10	10	10	8	7	6	6	5	5
4 x 0.75	11	11	11	11	9	8	7	6	6	5
5 x 1	12	12	12	12	10	9	8	7	6	6
6 x 1	10	10	10	10	8	7	6	6	5	5
8 x 1.25	9	9	9	9	8	7	6	5	5	4
10 x 1.5	9	9	9	9	7	6	6	5	5	4
12 x 2	10	10	10	10	8	7	6	6	5	5

Burst pressure (bar)										
Temp. °C.	-40	-20	0	20	30	40	50	60	70	80
3 x 0.45	30	30	30	30	24	22	19	17	15	14
4 x 0.75	33	33	33	33	27	24	21	19	17	15
5 x 1	37	37	37	37	30	26	23	21	19	17
6 x 1	30	30	30	30	24	21	19	17	15	14
8 x 1.25	28	28	28	28	23	20	18	16	14	13
10 x 1.5	26	26	26	26	22	19	17	15	14	12
12 x 2	30	30	30	30	25	22	19	17	16	14

For chemical compatibility of polyurethane tubing, please consult your Parker sales engineer.

Hoses

Pneumatic hoses are typically made up of a liner, a braid reinforcement and a protective cover. The number of braids depends upon the pressure rating of the hose. The protective cover is perforated to prevent blister formation due to air diffusion.

Hose lines are used for the connection of mobile, as well as stationary pneumatic machinery and equipment, eg, hand tools, mobile pneumatic cylinders, compressors, etc.

Conductive and non-conductive braid reinforcement

For applications in hazardous or inflammable conditions eg, air powered hand tools that produce static electricity, or hand tools that may come into accidental contact with live electrical components, connections must be made using a hose with a conductive braid reinforcement. With mobile pneumatic equipment an additional connection to ground may be required if the conductivity of the metal braid is not sufficient. Conversely, certain types of equipment should be connected using hoses with non-conductive braid reinforcement, eg Parker Push-Lok hose, to prevent the propagation of stray electric currents, for example electric welding or electrostatic spray paint equipment.

Parker Push-Lok hose and fittings

The Parker Push-Lok hose system is used for pneumatic applications up to 25 bar working pressure. The hose is assembled to fittings without the use of clamps.

For a twist free installation when the pressure hose is assembled, at least one end should have a swivel type connection.

For transition from copper or plastic tubing to Parker Push-Lok hose lines, the Metrulok FF swivel female end connection can be used.

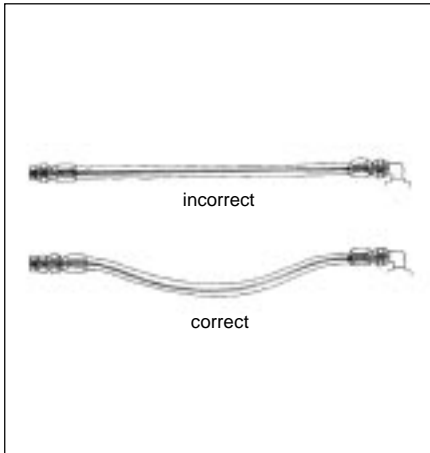
For chemical compatibility of hoses, please your Parker sales engineer.

Pneumatic connectors design manual

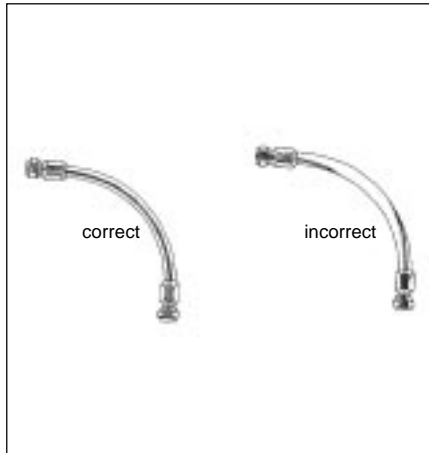
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Hose and tubing used in pneumatics

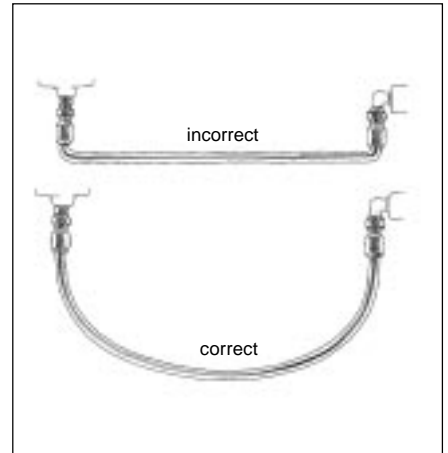
Installation guidelines



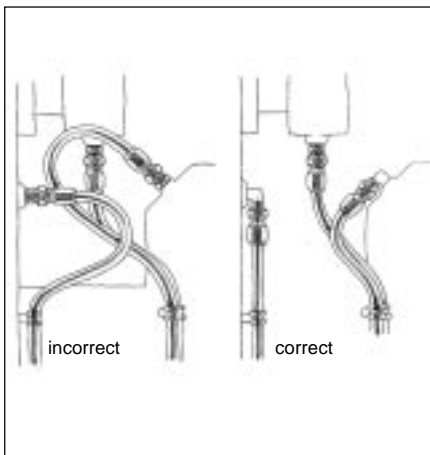
Always install hose lines with sufficient dip to compensate for movements during operation. A length variation of + 2 to - 4% is acceptable.



Make sure that the hose is not twisted. The marking on the hose and the use of swivel end fittings facilitate a twist-free installation.



Avoid acute bending of the hose adjacent to the rear of the hose connection. A minimum length of three times the outside diameter of the hose is recommended between the rear of the hose connection and the beginning of the bend radius.



For right angle configurations of the hose line, use elbow fittings to prevent stress on the connection due to the bend of the hose. Avoid sharp edged configurations and protect hoses exposed to heavy chafing with metal spiral sleeves.

If the risk of hose pull off during operation cannot be excluded, the hose line must be secured so as to prevent dangerous "whipping" of the hose following disconnection.

End connection standards

JIC 37° swivel female

These hose nipples are typically used in hydraulic systems of US origin.

Pipe thread UNF. Internal cone 74°. Suitable adaptors are Triple-Lok 37° flared fittings. Pipe threads : UNF - NPTF - metric - BSPT - BSPP.

SAE 45° swivel female

These hose nipples are used in the automotive industry, and in refrigeration engineering for low and medium pressure applications. Body and swivel nuts can be used as JIC 37° and SAE 45° adaptors, except for size -6 and -12 (different nipple).

DIN end connections

24° cone, light and heavy series to DIN standards. Threaded fittings can be used as adaptors.

Pneumatic connectors design manual

A

Hose and tubing used in pneumatics

End connection standards

BSP swivel end connections

BSP swivel end connections are used with BSP adaptors - internal cone 60°.

Metrulok swivel end connections

Metrulok swivel end connections are designed to suit all Metrulok fittings. Consult Metrulok section.

BSPT male end connections

BSPT male end connections are used for direct connection to threaded ports.

Standard imperial and metric steel and copper tubes

Imperial sized copper tubing conforming to BS2871 Part 2 OD x wall thickness In	Metric sized copper tubing conforming to DIN 1786 - NF A51 120 BS2781 Part 2 ID x OD mm	Metric sized steel tubing conforming to NF A48 001- DIN 2391C BS7416 ID x OD mm
1/8 x 0.028		
3/16 x 0.028		
1/4 x 0.036	4 x 6	4 x 6
5/16 x 0.036	6 x 8	6 x 8
3/8 x 0.036	8 x 10	8 x 10
1/2 x 0.064	10 x 12	10 x 12
5/8 x 0.064	12 x 14	12 x 14
	14 x 16	14 x 16
3/4 x 0.064	15.6 x 18	16 x 18
	17.6 x 20	17 x 20
	18.8 x 22	19 x 22
1 x 0.080	21.8 x 25	22 x 25
1.1/4x 0.080	28 x 32	27 x 30

Pneumatic connectors design manual

Pneumatic system calculations

Pressure drop caused by the frictional resistance of the rubber hose bore to the flow of the medium.
(the pressure drop is expressed in bar per 10 m hose length)

Hose bore and corresponding fitting	Pressure bar	Flow through 10 m hose length (Nm ³ /h)									
		10	15	35	70	100	140	200	300	400	500
1/8 dia.5	5	0.1	0.4	-	-	-	-	-	-	-	-
	6	0.08	0.35	-	-	-	-	-	-	-	-
	7	0.07	0.3	-	-	-	-	-	-	-	-
	8	0.05	0.2	-	-	-	-	-	-	-	-
3/16 dia.6	5	0.07	0.18	-	-	-	-	-	-	-	-
	6	0.06	0.15	-	-	-	-	-	-	-	-
	7	0.05	0.10	0.9	-	-	-	-	-	-	-
	8	0.03	0.08	0.7	-	-	-	-	-	-	-
1/4 dia.8	5	-	0.08	0.6	-	-	-	-	-	-	-
	6	-	0.07	0.5	-	-	-	-	-	-	-
	7	-	0.05	0.3	-	-	-	-	-	-	-
	8	-	0.03	0.2	-	-	-	-	-	-	-
5/16 dia.10	5	-	-	0.15	0.4	1.17	-	-	-	-	-
	6	-	-	0.1	0.3	0.85	-	-	-	-	-
	7	-	-	0.08	0.3	0.79	-	-	-	-	-
	8	-	-	0.05	0.2	0.70	-	-	-	-	-
3/8 dia.12	5	-	-	0.02	0.33	0.79	-	-	-	-	-
	6	-	-	0.01	0.18	0.53	-	-	-	-	-
	7	-	-	0.01	0.09	0.47	-	-	-	-	-
	8	-	-	-	0.07	0.39	-	-	-	-	-
1/2 dia.16	5	-	-	-	0.05	0.16	0.33	0.93	-	-	-
	6	-	-	-	0.03	0.11	0.24	0.66	1.82	-	-
	7	-	-	-	0.03	0.10	0.22	0.62	1.71	-	-
	8	-	-	-	0.02	0.10	0.20	0.58	1.61	-	-
3/4 dia.20	5	-	-	-	0.01	0.02	0.04	0.11	0.26	0.50	-
	6	-	-	-	0.01	0.02	0.03	0.06	0.18	0.33	-
	7	-	-	-	-	0.01	0.02	0.06	0.16	0.31	0.52
	8	-	-	-	-	0.01	0.02	0.05	0.15	0.29	0.48
1 dia.26	5	-	-	-	-	0.01	0.01	0.02	0.06	0.12	0.22
	6	-	-	-	-	-	0.01	0.02	0.04	0.08	0.12
	7	-	-	-	-	-	-	0.02	0.04	0.07	0.11
	8	-	-	-	-	-	-	0.01	0.03	0.06	0.10

Recommended data

Power losses in pneumatic circuits

Power loss or pressure drop in pneumatic circuits is the differential pressure Δp bar from inlet to outlet.

For calculating the respective efficiency of pneumatic system components e.g. valves, fittings, tubing, the flow factor Cv is used. The figure corresponds to the volume of water (l) per unit time (min) that flows through a given component, dependent upon the differential pressure, Δp (bar).

The U.S.A. uses the same Cv factor, but expressed as US gallon/min. for a ΔP in psi (Kv France = 14.3 Cv or Cv US = 0.07Kv)

Germany uses a Kv factor which is defined in NI/min.

Note : the air volumes expressed in Nm³/min or NI/min correspond to the relief flow rate at 6 bar delivery pressure.

In pneumatics, the flow rate Q is normally expressed in free air at standard reference atmospheric conditions, symbol ANR. This does not apply to compressor output characteristics, which refer to intake volume and relative delivery pressure.

$Q_{ANR} = Q_{rel.} \times P_{abs.}$ i.e., manometric pressure + 1 bar atm.

1000 l/min ANR = 100 l/min x (9 bar + 1 bar atm.)

Pneumatic connectors design manual

Pneumatic system calculations

A

Cv UK/USA	Kv France	Kv Germany	Δp	Ql/min (ANR)
0.14	2		1	138
			1.5	162
			2	180
			2.5	189
			3	195
		0.125	6	138
0.28	4		1	276
			1.5	324
			2	360
			2.5	378
			3	390
		0.250	6	308
0.49	7		1	483
			1.5	567
			2	630
			2.5	661
			3	682
		0.438	6	482
0.84	12		1	828
			1.5	972
			2	1080
			2.5	1134
			3	1170
		0.751	6	826
2.1	30		1	2070
			1.5	2430
			2	2700
			2.5	2835
			3	2925
		1.878	6	2065
6.3	90		1	6210
			1.5	7290
			2	8100
			2.5	8500
			3	8775
		5.636	6	6200

Calculation of flow rate as a function of Cv / Kv

For upstream gauge pressure of 6 bar.

Flow rate is inversely proportional to pressure.

In a pneumatic cylinder, for example, the pressure increases from the beginning to the end of the stroke, whereas the flow rate decreases from its maximum value at the beginning of the stroke to zero at the end of the stroke.

Considering a pneumatic component with a specified flow factor Cv/Kv, the flow rate Q, corresponding to any differential pressure Δp from inlet to outlet is calculated using the following equation :

$$Q \text{ ANR} = 403.3 \text{ Cv} \sqrt{\Delta p \times P} \text{ abs. downstream}$$

Q = flow rate l/min free air

Cv or Kv = flow factor

Δp = differential pressure in bar

P = abs. pressure downstream = abs. pressure upstream - Δp .

abs. pressure upstream = manometric pressure + 1 bar atm.

Note : this equation is applicable so long as Δp is less than half the upstream pressure.

The figures tabulated on the left are for air at 20°C ambient temperature, 65% rel. humidity and 1013 mbar atmospheric pressure.

Pneumatic connectors design manual

Pneumatic system calculations

A

Orifice diameter for different cylinder types and speeds, for an upstream gauge pressure of 6 bar

Valve			Cylinder load	Maximum cylinder speed attainable without braking, for tube length of 1 m (speed in mm/s)														
Fitting thread	Bore diameter mm	Cv		M5 Cylinder fitting				1/8 Cylinder fitting			1/4 Cylinder fitting		3/8 Cylinder fitting		1/2 Cylinder fitting		3/4 Cylinder fitting	
				8	10	12	16	20	25	32	40	50	63	80	100	125	160	200
M5	3	0.14	346 80%	6920	4380	3062	1721	1102	705	430	275	176						
			405 70%	8100	5127	3584	2015	1290	825	504	322	206						
			441 60%	8820	5582	3903	2194	1404	898	549	351	225						
			463 50%	9260	5861	4097	2303	1475	943	576	369	236						
1/8	5	0.49	1211 80%					3857	2466	1506	964	617	389	241				
			1417 70%					4513	2886	1762	1128	722	455	282				
			1543 60%					4914	3143	1919	1229	786	495	307				
			1620 50%					5159	3299	2015	1290	825	520	322				
1/4	6	0.84	2076 80%					1653 1058		666	413	264	169					
			2430 70%					1935 1238		780	484	310	198					
			2646 60%					2107 1348		849	527	337	216					
			2778 50%					2212 1415		892	553	354	226					
3/8 1/2	12	2.1	5190 80%					Critical speed area		1666	1033	661	423	258	165			
			6075 70%							1950	1209	774	495	302	193			
			6615 60%							2123	1317	843	539	329	211			
			6945 50%							2229	1382	885	566	346	221			
3/4 1	20	6.3	15570 80%											775	496			
			18225 70%											907	580			
			19845 60%											988	632			
			20835 50%											1037	664			

Cylinders must never be subjected to 100% load in order to determine their efficiency (20% approx.)

Notes :

- 1 - The total displacement time is obtained by taking the travel time and adding the damping time, the response time (table B, page 19) and the time required for air intake into tubing beyond 1 m (table C, page 19).
- 2 - The speed and response time of a cylinder are not constant, but totally variable dependant on a number of factors such as : the inertia of the masses to be displaced, seating and sticking effect at the start of travel, the type of cylinder construction (seals, load distribution, etc.), the condition of the cylinder (wear, corrosion, etc.), whether the cylinder is mounted horizontally or vertically. The maximum performance values shown are approximate only, and are intended for the purpose of comparison. Depending on the operating conditions, these values could be reduced by half.

Pneumatic system calculations

Cyl. dia	Fitting thread	Stroke mm	Response time (s)
32	1/8	50	0.04
		100	0.08
		150	0.12
		200	0.16
50	1/4	100	0.07
		150	0.17
		200	0.23
		300	0.34
80	3/8	150	0.17
		200	0.23
		300	0.35
		400	0.46
100	1/2	200	0.13
		300	0.19
		400	0.25
		500	0.31
125	1/2	300	0.29
		400	0.39
		500	0.43
		600	0.59
160	1/2	400	0.64
		500	0.80
		600	0.96
		700	1.13
		800	1.29

Cylinder response time (table B)
for 80% load, gauge pressure 6 bar,
tube length 1 m

The average response times shown include an allowance for the time taken to empty the tubes and restore pressure. The values given are approximate only and subject to variation dependent upon the condition of the tubing and the cylinder.

Air intake time for different tube lengths and diameters (table C),
gauge pressure of 6 bar

Hose ID mm	Hose length in metres					
	2	4	5	6	8	10
3	0.022	0.060	0.085	0.110	0.170	0.238
4	0.018	0.045	0.063	0.084	0.130	0.185
6	0.010	0.030	0.045	0.060	0.095	0.133
9	0.018	0.035	0.048	0.060	0.090	0.120

Time in seconds

The temptation to reduce the pressure drop by choosing a large diameter tube should be resisted. Excessive over dimensioning will give an insignificant improvement in pressure drop at the expense of waste air and an increase in response time owing to the need to fill a greater volume.

Pneumatic connectors design manual

Pneumatic system calculations

A

Maximum recommended flow through a pipe or hose in Nm³/h

Pressure bar	1.1/2" bore 40	1.1/4" bore 33	1" bore 26	3/4" bore 20	1/2" bore 15	3/8" bore 12	1/4" bore 8	1/8" bore 5
3.5	564	396	192	96	60	31.2	13.8	6.6
4.9	810	540	252	132	84	43.2	19.8	9.0
6.3	960	690	324	168	108	55.8	25.8	11.5
7.0	1140	780	366	204	120	62.4	28.8	12.5
8.7	1380	960	450	240	138	75.0	34.2	15.0

Flow resistance within a fitting expressed as the equivalent length (m) of hose

Type of fitting	Fitting bore diameter in mm										
	2.7	4	6	8	10	12	13	16	18	20	22
90° elbow	0.26	0.39	0.61	0.80	1.00	1.19	1.30	1.61	1.80	2.00	2.19
Tee or cross flow at 90°	0.52	0.78	1.22	1.61	2.00	2.39	2.60	3.21	3.60	3.99	4.38
Tee or cross in line flow	0.18	0.27	0.43	0.56	0.70	0.80	0.91	1.12	1.26	1.40	1.50

Air consumption

A distinction is made between hourly and instant air consumption.

1) Air operated machines

Example : actuating cylinder, diameter 100 mm, stroke length 1 m, one cycle per minute, out stroke 0.8 s, return stroke 15 s.

Hourly air consumption

Cylinder area cm² x stroke cm = 7850 cm³
 Cylinder volume cm³ x (6 bar + 1 atm) x stroke and return = 109 900 cm³ (ANR) during each cycle
 Consumption is 109.9 l x 60 = 6594 l/h (ANR).

Instant air consumption

Cylinder area cm² x stroke cm = 7850 cm³
 Volume cm³ x (6 bar + 1 atm) x 1 stroke = 54 950 cm³ in 0.85.
 Consumption is 54.95 l x 60/0.8 = 4 121 l/mn (ANR).

Note : when calculating the air consumption of actuating cylinders the piston rod area can be disregarded.

The example calculation illustrates that it is often necessary to provide for a pressure equalizing reservoir on the machine.

Line volume

With cylinders of short stroke length, the line volume between the directional control valve and the cylinder must be taken into account when calculating air consumption.
 Example : actuating cylinder as before, but with a stroke length of 100 mm, and 4 m connecting line, I.D. 12 mm.

Hourly air consumption

Cylinder area cm² x 10 cm = 785 cm³
 Cylinder volume cm³ x (6 bar + 1 atm) x stroke and return = 10 990 cm³ (ANR) per cycle of one minute, equals 10.99 l x 60 = 660 l/h (ANR).

Line area cm² x 400 cm = 452.16 cm³
 Line volume cm³ x (6 bar + 1 atm) x stroke and return = 6 330 cm³ (ANR) per cycle of one minute, equals 6.33 l x 60 = 380 l/h (ANR).

Instant air consumption

Cylinder area cm² x 10 cm = 785 cm³
 Cylinder volume cm³ x (6 bar + 1 atm) x 1 out stroke = 5 495 cm³ (ANR) in 0.8 s, equals 5495 l x 60 / 0.8 = 412 l/mn (ANR).
 Line area cm² x 400 = 452.16 cm³
 Line volume cm³ x (6 bar + 1 atm) x 1 out stroke = 3 165 cm³ (ANR) in 0.8 s, equals 3.16 l x 60/0.8 = 237 l/mn (ANR).

This example calculation illustrates that in some cases the line volume accounts for more than half the air consumption. In such cases it is important to mount the valve as close as possible to the cylinder. For low-speed cylinder applications, the use of smaller diameter connecting lines is appropriate.

Pneumatic system calculations

Air consumption for different pneumatic tools

Tool	Consumption m ³ / h (ANR)	Duty cycle sec
Shears	24	0.1 to 0.8
Hammer-action wrenches for :		
6mm bolts	17	0.1 to 0.6
12 mm bolts	24	0.1 to 0.6
16 mm bolts	27	0.1 to 0.6
20 mm bolts	45	0.1 to 0.6
33 mm bolts	66	0.1 to 0.3
40 mm bolts	72	0.1 to 0.3
Nibblers	24	0.5 to 0.6
Grinders		
dia. 100 mm	40	0.4 to 0.5
dia. 150 mm	60	0.4 to 0.5
Grinders/cutters		
dia. 180 mm	80	0.4 to 0.5
dia. 235 mm	168	0.4 to 0.5
Drills and nut tappers		
6 to 8 mm	32	0.4 to 0.6
8 to 10 mm	35	0.4 to 0.6
10 to 13 mm	40	0.4 to 0.6
18 mm	45	0.3 to 0.7
22 mm	66	0.3 to 0.7
32 mm	114	0.3 to 0.7
Spray guns	6 to 25	0.6 to 0.9
Sanders		
sander dia. 127	36	0.4 to 0.5
sander dia. 180	60	0.4 to 0.5
Orbital sanders		
with disk	21	0.8 to 0.9
with pad	21	0.8 to 0.9
Bellows (2 mm nozzle)	10	0.1 to 0.2
Screw-driving machines		
6 mm	23	0.1 to 0.6
8 mm	32	0.1 to 0.6
10 mm	35	0.1 to 0.6

2) Pneumatic power units

Air compressors are designed with consideration for the overall operational requirements, together with the air demand of the machines and hand tools.

When calculating the air demand of pneumatic hand tools, their actual working time should be taken into account. For the associated connecting hose the instant air consumption is also determined.

Leakage

Leakage is measured as pressure drop in compressed air systems, and pressure increase in vacuum systems. The respective leak rates are calculated as follows.

Units of measurement of leakage

- 1 atm = 1013.10 mbar = 760 Torr
 - 1 atm cm³/s = 0.1 Pascal m³/s = 1
 1 mbar l/s = 0.76 Torr l/s = 760 Lusec
 (litre, micron, second)

Calculating leakage in compressed air systems

Tank volume : 1 m³
 Initial pressure : 8 bar.
 Pressure after 12 min 30 s. = 5 bar
 Pressure drop : 8 - 5 = 3 bar
 Leak rate = 1 m³ x 3 bar x 60/12.5
 equals 14.4 Nm³/h (ANR).

Calculating leakage in vacuum systems

Tank volume : 1 m³
 Initial vacuum : 0.012 atm.
 Pressure increase : 0.008 - 0.012 =
 0.068 atm

Leak rate = 1 000 cm³ x 0.068 atm x
 60/8.5 equals 480 atm. cm³/s.
 Vacuum after 8 min 30 s. : 0.08 atm
 Pressure increase : 0.08 - 0.012 =
 0.068 atm
 Leak rate = 1 000 cm³ x 0.068 atm x
 60/8.5 equals 480 atm.cm³/s

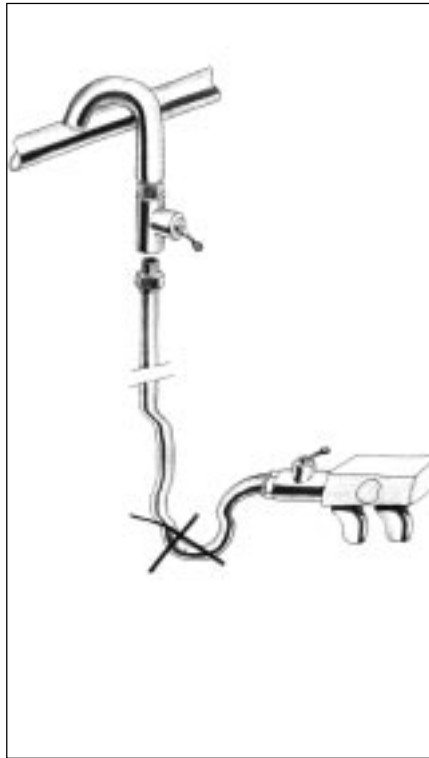
Leak detection

Soap bubble method:
 A hole of 2µm at a pressure of 2 bar
 produces a bubble of 1 mm³ per
 minute.
 Spray method :
 Spray type leak testers offer convenience and ease of application.

Pneumatic connectors design manual

Installation guidelines

A



Service lines

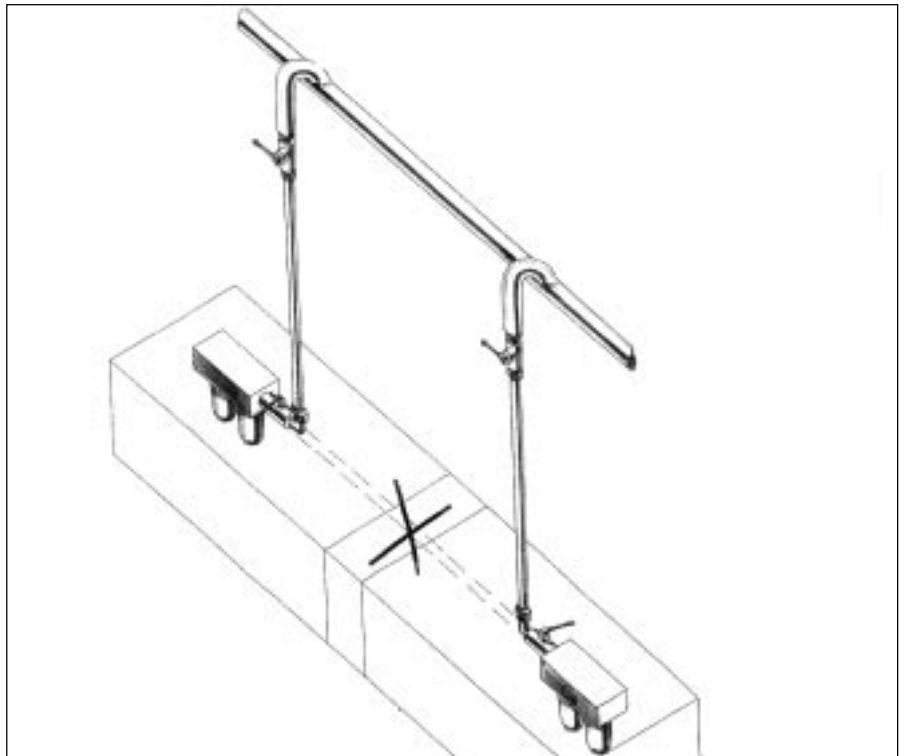
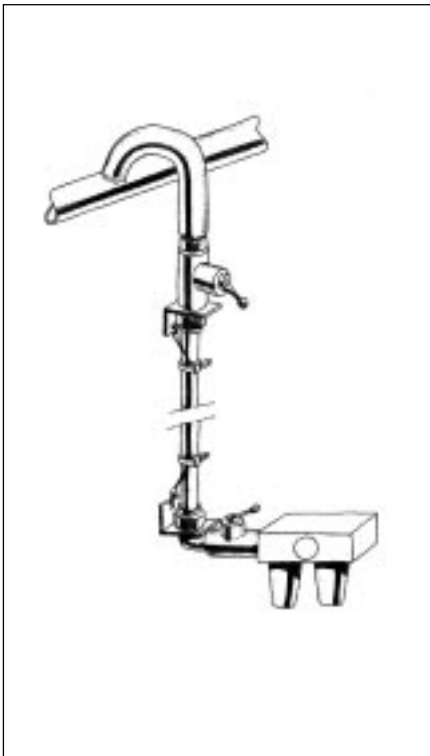
Steel tubing, copper tubing or metal braid reinforced hoses are used for the connection of air operated machines to the supply network. Connecting lines of unsecured plastic tubing is not recommended (accident hazard in the case of pressure line pull off).

Service lines - even copper - must not be used for earthing purposes.

Suspended pressure lines

For suspended pressure lines, the Parker Push-Lok hose system offers easy assembly and alignment, together with a vibration absorbing connection.

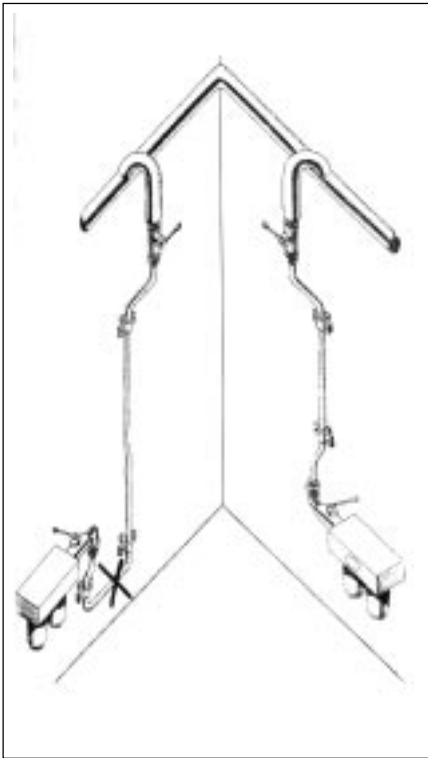
If the risk of hose pull-off during operation cannot be excluded, the hose must be secured so as to prevent dangerous whipping.



Pneumatic tubes, even if copper, should not be used for earthing purposes.

Avoid problems of alignment and vibration by not linking machines to a joint air supply.

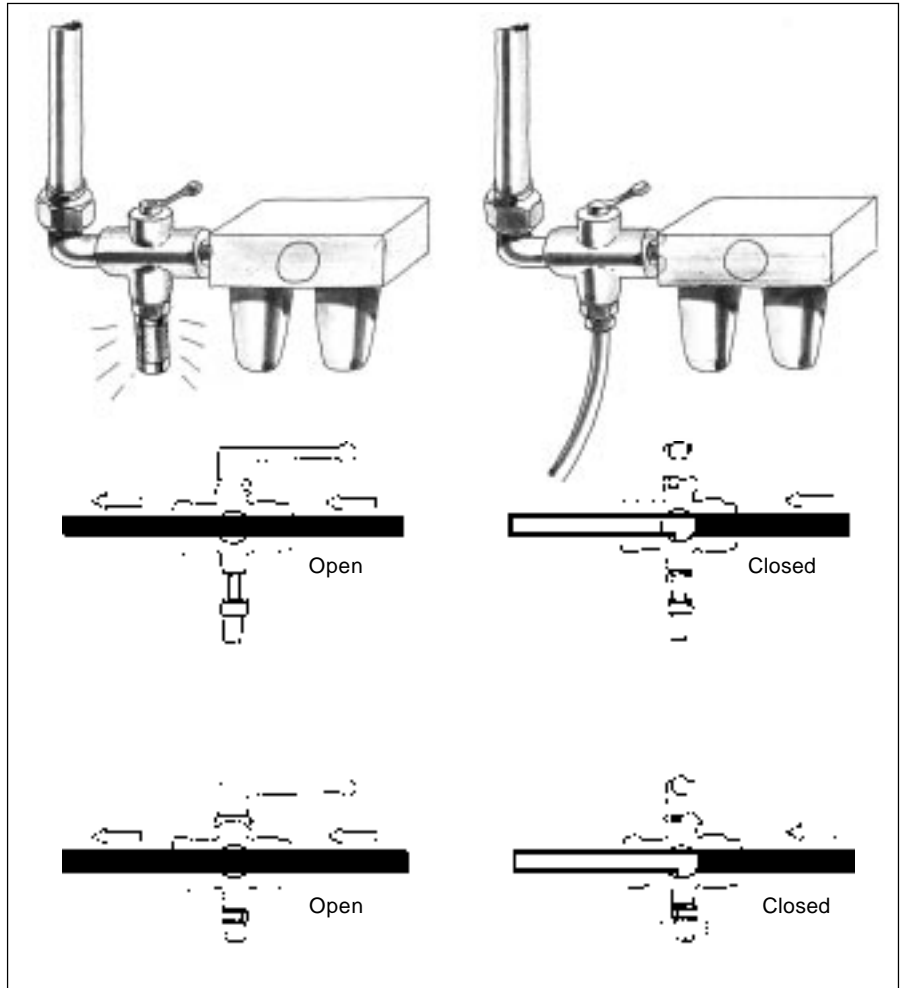
Installation guidelines



Wall-mounted pressure lines

For wall-mounted connecting lines, copper or steel tubing is preferred to flexible hoses which tend to chafe against the wall.

The line is fixed to the wall with tube clamps approx 1 m apart.



Shut-off and unloading valve

A shut-off and unloading valve is "in line" mounted at the inlet of each air operated machine. A silencer and pressure relief device should be mounted on the outlet of the unloading valve.

Parker tube fittings simplify the installation of connections between air operated machinery and supply networks, and facilitate, in particular, transition from copper to plastic tubing or pressure hoses.



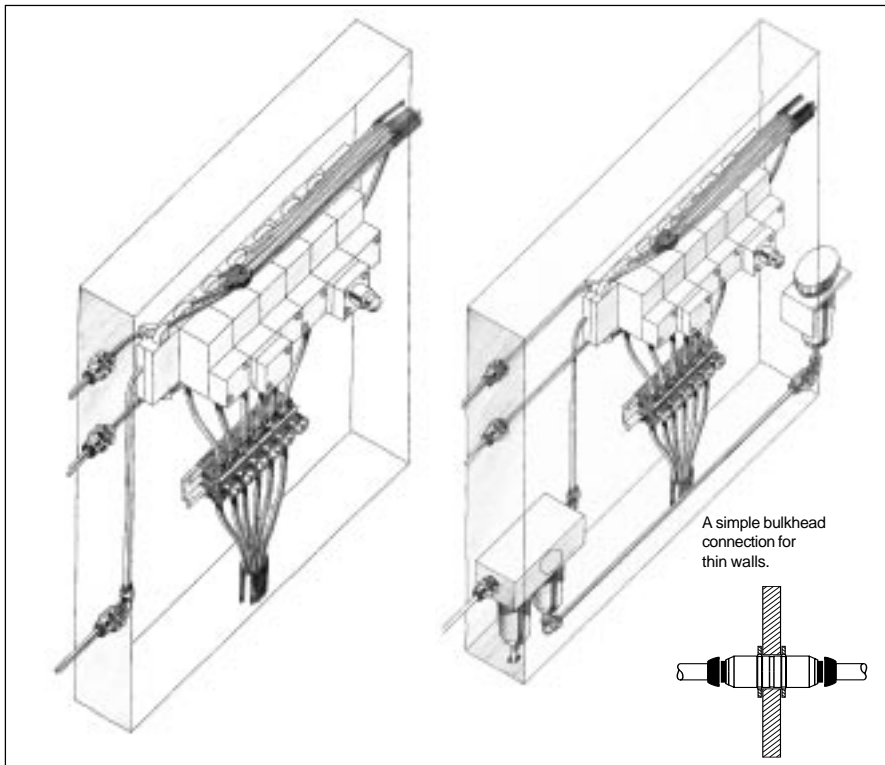
High temperature or high vibration environment

In a high temperature or high vibration environment, the use of hose is recommended.

Pneumatic connectors design manual

Installation guidelines

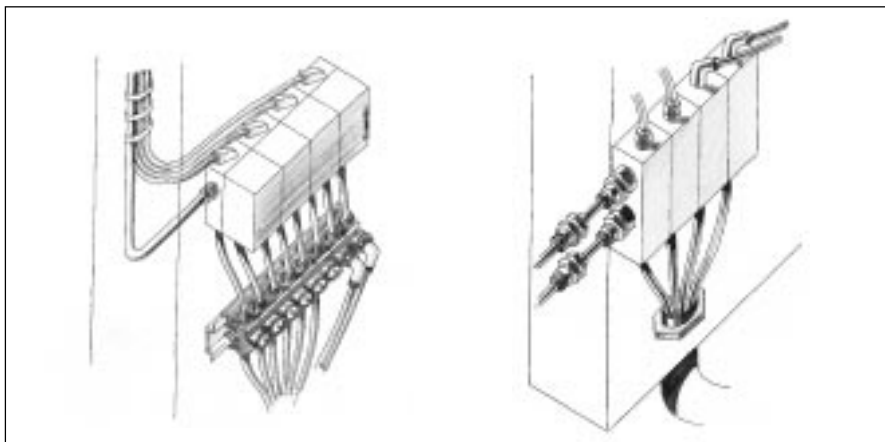
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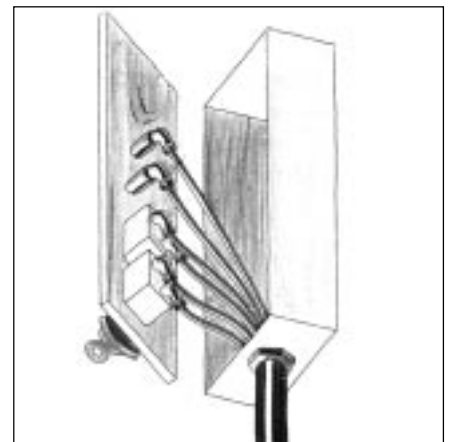
Air preparation equipment

The filter regulator lubricator unit is normally mounted at the inlet of the air operated machine, where the drain and filler plugs are easily accessible for maintenance purposes. Many pneumatic systems use oil-free control air. For the control line a small tube size is sufficient, because the air demand of the control circuit is minimal.

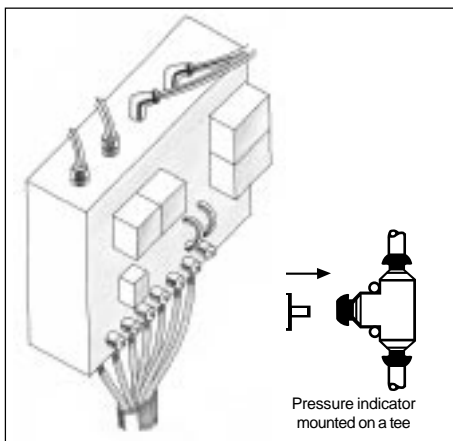
In case of protected control cabinets with built-in air preparation equipment, the end connections for exhaust lines, drainage and, if possible, oil filling, should be located on the outside of the control cabinet.



Connecting lines

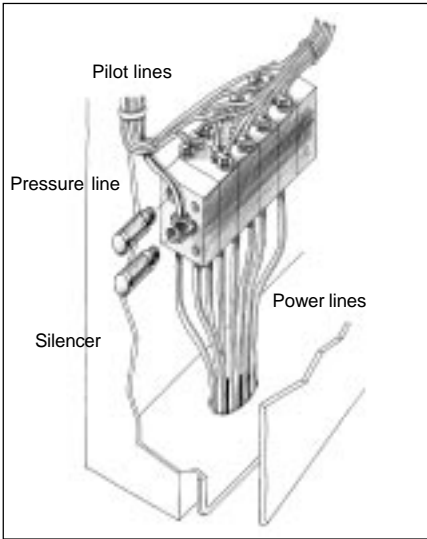


Control units



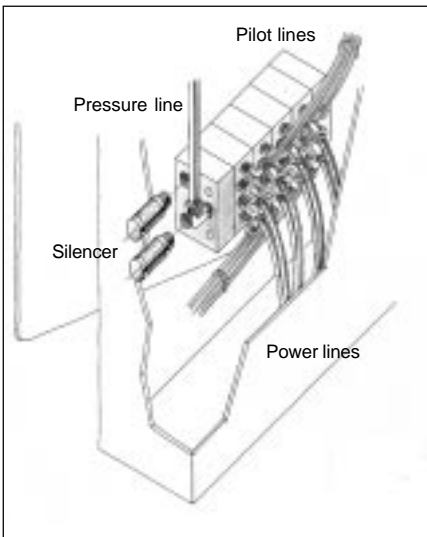
Panel mounted pressure indication

Installation guidelines

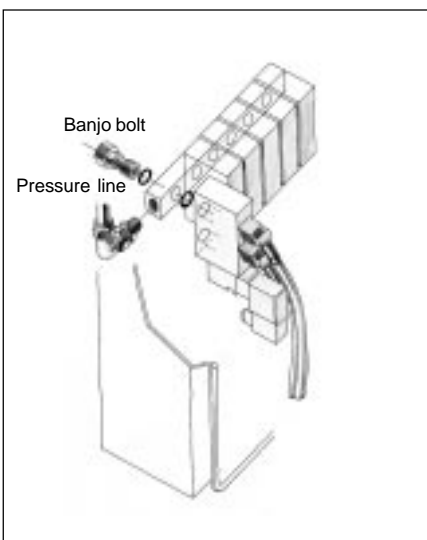


Power circuit piping in a control cabinet

Stackable connection blocks, top and bottom piping



Stackable connection blocks, rear piping



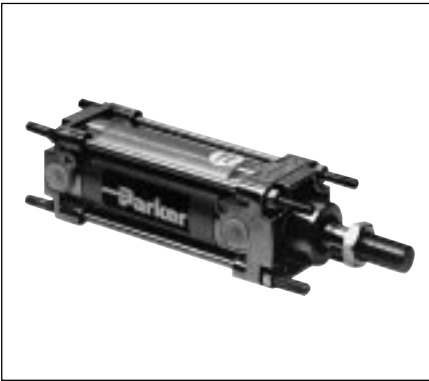
Assembly of non-stackable connection blocks

(outlets can be linked together using the same assembly method)

Exhaust ports can be connected to collecting lines. Adequate precautions should be made to ensure that any back pressure does not operate another valve or cylinder.

Pneumatic connectors design manual

Pneumatic control



Pneumatic cylinders

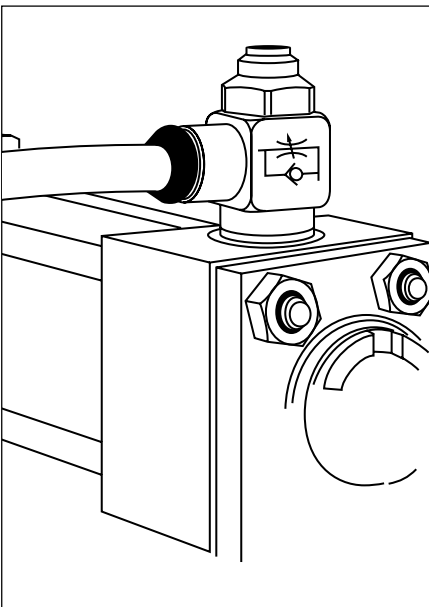
Service lines for pneumatic cylinders are made using fibre-braid reinforced hose (accident protection in case of pull-off during operation) or flexible polyamide or polyurethane tubing. Areas exposed to heavy chafing should be sleeved.

For interconnections between pneumatic cylinders and air-oil reservoirs, polyamide or polyurethane tubing of appropriate pressure rating should be used. Where air-oil intensifiers are used, pipework should be copper (no volume expansion during operational pressure surges).

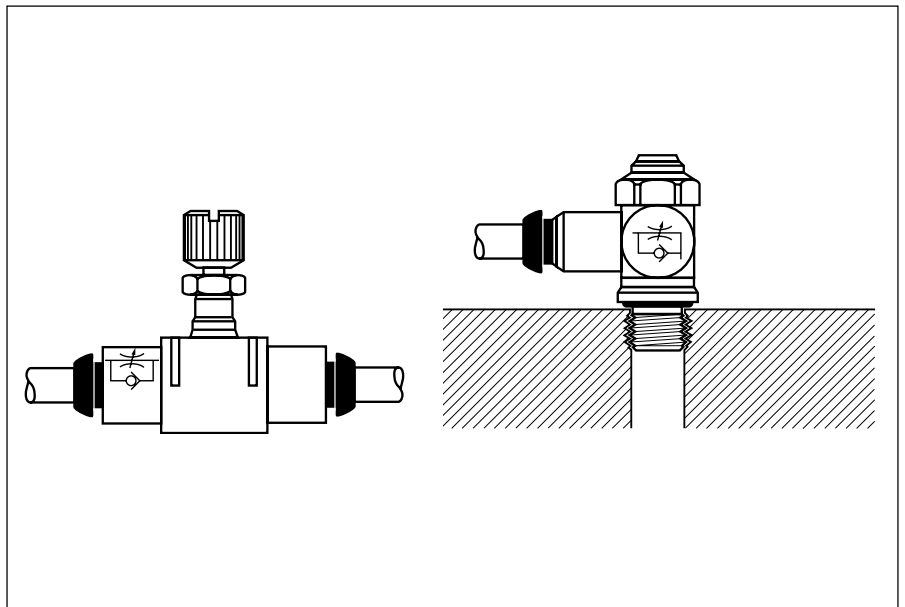
Pneumatic integrated fittings

Flow control valves

Pneumatic integrated regulators are designed for direct mounting onto cylinder ports, securing accurate control of the exhaust air flow from the cylinder, and precise adjustment of piston-rod speed. Their use permits easier piping and a more compact installation.



Mounting on cylinder



Installation in line or where it is difficult to obtain access to the cylinder for adjustment

For control of inlet air on mini cylinders

Pneumatic control

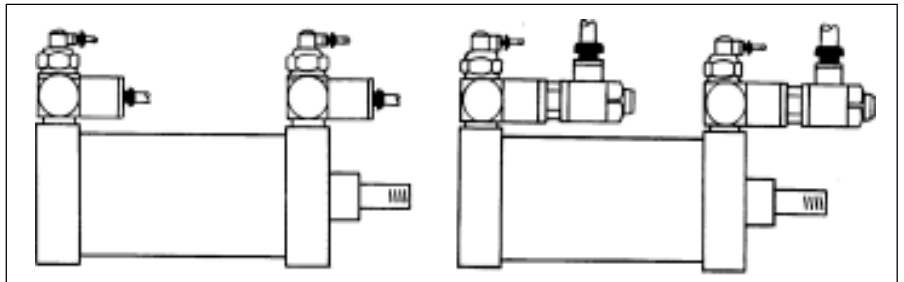


Prestobloc check valves

Pneumatically controlled Prestobloc check valves are designed for direct mounting onto cylinder ports, and assure the quick stopping of the piston-rod by blocking the cylinder supply and exhaust.

The two direction valve is normally open. It closes when the control pressure is cut off, as well as in the event of an air failure.

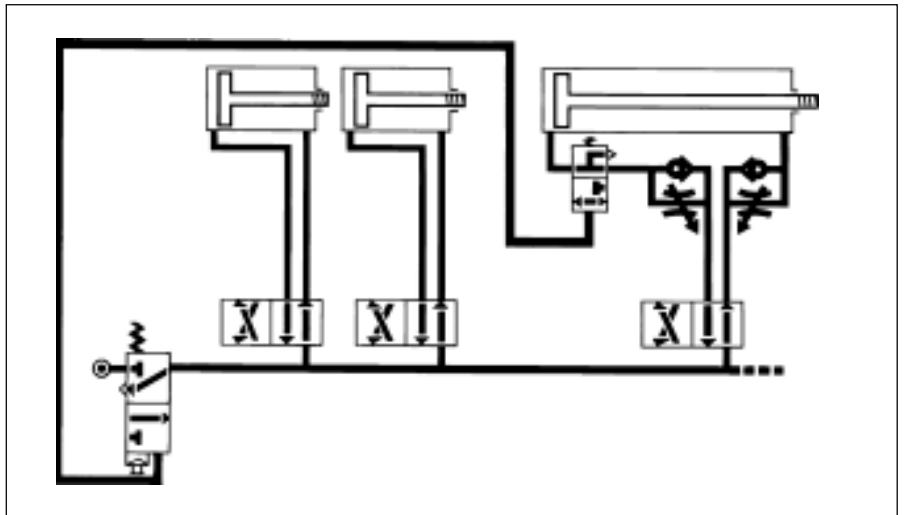
Prestobloc fittings are used, in particular, as safety stops to prevent descent under load in the event of a power failure, and as safety locks associated with emergency switches.



Prestoload exhaust valves

Pneumatically controlled Prestoload exhaust valves are designed for direct mounting onto cylinder ports and provide a quick discharge of the

cylinder chambers upon receipt of a pilot signal. The valve closes when the control pressure is cut off.



Prestosil silencers and flow control valves

Integrated Prestosil components are designed for direct mounting onto the exhaust port of single acting cylinders and directional control valves.

They provide efficient silencing of exhaust noise and permit precise adjustment of piston-rod speed.

Pneumatic connectors design manual

Connectors for pneumatic systems

The large variety of pneumatic applications has led to the development of fittings to meet these requirements.

There are 3 major fitting styles:

- Push-in fittings for application with flexible tubing and pressures up to 25 bar.
- Compression fittings for applications with copper and flexible tubing. For pressures up to 180 bar.
- Push-on fittings suitable for use with flexible tubing and pressures up to 40 bar.

Parker offers a complete fitting package for pneumatic applications.



Prestolok 2 push-in fittings

Prestolok 2 push-in fittings are manufactured from glass reinforced nylon bodies and nickel plated brass stud terminations. They are designed for use with plastic tubing from primary vacuum to 18 bar, and temperatures up to 80° C.

Application examples:

- Textile machinery
- Packaging equipment
- Cutting oils
- Robots



Prestolok micro push-in fittings

Prestolok micro push in fittings are designed for use where space is at a premium.

They are designed for use with plastic tubing from primary vacuum to 16 bar, and temperatures up to 80°C.

Application examples:

- Miniature cylinders
- Miniature pneumatics



Prestoweld 2 push-in fittings

Prestoweld 2 brass push-in fittings are used with Prestoweld 2 spark resistant tubing for welding applications. Suitable for use from primary vacuum to 25 bar and temperatures up to 100° C.

Application examples:

- Welding guns
- Welding fixtures
- Spot welding machines



Prestolok push-in fittings

Prestolok push-in brass fittings are suitable for plastic tubing from primary vacuum to 25 bar, and temperatures up to 100°C

Application examples:

- Transfer lines
- Compressors
- Climate control

Connectors for pneumatic systems



Metrulok brass fittings

These bite type fittings are suitable for copper tubing up to 180 bar and polyamide tubing up to 42 bar pressure, and temperatures up to 190°C.

Application examples : Compressors, Pneumatic hand tools, Lubrication systems, Automotive auxiliary systems.



PL nickel plated brass fittings

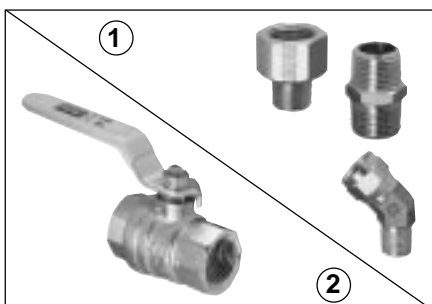
PL two-piece fully reusable nickel plated brass fittings for use with plastic tubing.

They can be assembled by hand with polyurethane tubing.

Suitable for pressures up to 40 bar and temperatures up to 100°C.

Application examples :

Laboratory equipment, Pneumatic hand tools, Pressure washers, Packaging machinery.

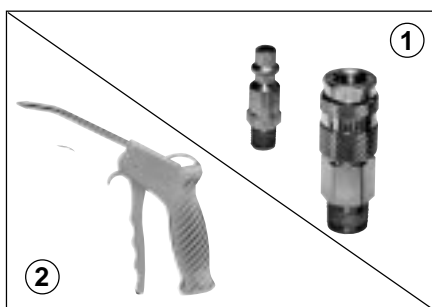


① Brass adaptors

A comprehensive range of adaptors for pneumatic and low pressure fluid applications. Available with BSPP, metric and NPT threads they may be used from primary vacuum to 60 bar.

② Ball Valves

Suitable for many fluid applications. Parker's range of BSPP threaded ball valves include short and long thread options, mini barstock valves and padlockable valves in sizes up to 2" BSPP.

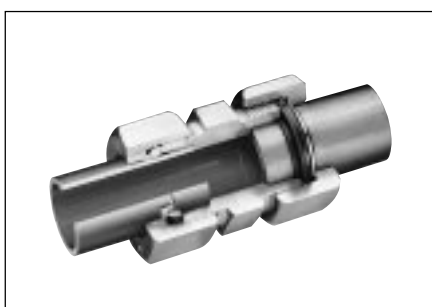


① Pneumatic Quick couplers

Brass and steel pneumatic quick couplings meeting ISO 6150-B, ISO 6150-C or "Europrofile". Available with different end configurations and flow performance up to 3500 l/min, **they can be used for :** grinding machines, pneumatic wrenches, tools currently utilised in industry and garages, and also for many other applications.

② Blow guns

Impact resistant plastic blow guns available with a variety of nozzle configurations with or without safety valving. **They can be used at all the manufacturing stages to :** blow off parts, clean work-stations, remove dust, dry.



Ermeto original - Bite Type High Pressure Tube Fitting Systems

- **EO-2 Dry Technology :** Steel with NBR sealing for steel tubing or Stainless steel 1.4571 with FPM sealing for stainless steel tubing.

- **DPR Progressive Ring :** Steel or Stainless Steel 1.4571 for Steel or Stainless Steel tubing.

- **D Cutting Ring :** Brass for copper or polyamide tubing.

Application examples : Compressors, Machine tools, Handling Equipment, Injection Moulding.

Pneumatic connectors design manual

A

Terms used in pneumatics

Absolute pressure	Pressure measured from absolute zero.	Compressor regulator	A device fitted to a compressor which controls the output of the machine.
Absolute temperature	Temperature measured above absolute zero.	Condensate	Liquid formed by the condensation of water vapour in the air, due to a fall in temperature.
Actuator	A pneumatic device which is used to apply power, e.g. a lever, solenoid or cylinder.	Discharge temperature	Temperature at the standard discharge point of a compressor.
Adiabatic expansion	The expansion or compression of a gas without change in heat content.	Displacement	The volume displaced by the compression element in a given time.
Aftercooling	Removal of heat from air after compression is complete.	Dryer	Equipment used to reduce the water vapour content of compressed air.
Air receiver	A pressure vessel in which compressed air is stored.	Fusible plug	Fitted to the hot discharge zone of a compressor for protection against excessively high temperatures.
Ambient temperature	Temperature of the environment.	Gauge pressure	Pressure measured above or below atmospheric pressure.
Atmospheric pressure	The absolute pressure of the atmosphere as measured for a given altitude.	Inlet temperature	Temperature at the standard inlet point of the compressor.
Capacity (compressor)	Actual volume rate of flow, compressed and delivered at the discharge point, at stated inlet conditions.	Intercooling	The cooling of compressed air between compression stages.
Closed loop system	A pneumatic circuit, whereby, air from the actuators is returned as a closed pressurised circuit to the compressor inlet.	Isothermal expansion	Expansion or compression without change of temperature.
Compression ratio	Ratio of final pressure to original pressure.	Multi-stage compression	Two or more stages of compression, with intercooling between them, before the final pressure is reached.
Compressor	A machine which causes a gas to flow against a pressure thus converting mechanical force and motion into pneumatic fluid power.	Lubricator	Equipment used to release a controlled amount of lubricant into the compressed air stream.

Terms used in pneumatics

Overall stage ratio	The pressure ratio for any particular pressure stage in a multi-stage compressor.	Separator	A device for removing liquids from compressed air.
Pressure ratio (total)	The ratio between the absolute discharge pressure and the absolute inlet pressure.	Single-stage compression	Initial to final pressure in a single step.
Pressure regulator	A valve or similar device for reducing line pressure to a lower constant value.	Specific energy requirement or power consumption	Input energy requirement per unit of compressed air produced ; or shaft input power per unit of compressor capacity.
Pressure relief valve	A valve used to limit the maximum system pressure, exhausting the compressed air to atmosphere when the required back pressure is exceeded.	Standard reference atmosphere	The agreed atmosphere to which specification, valves and test results are determined in other atmospheres, are corrected.
Pulsation dampener	A chamber fitted at the inlet or discharge of a reciprocating compressor to remove pulsations and to prevent resonance.	Volumetric efficiency	Ratio of capacity to displacement of a compressor or vacuum pump.
Ring main	A compressed air or vacuum main which begins and ends at the compressor, or vacuum pump providing every outlet which two possible sources of supply.		

Pneumatic connectors design manual

Pneumatic symbols

For the design of pneumatic systems a range of standard symbols is used to represent the separate components used in the system.

These symbols are defined in ISO 1219, BS 2917 and NFEO4 - 057

Valve symbols

Valve type	Normal position	Description of valve	Symbol
2/2	Closed	Two port (2 way) Two position (No exhaust port)	
2/2	Open	Two port (2-way) Two position (No exhaust port)	
3/2	Closed	Three port (3-way) Two position	
3/2	Open	Three port (3-way) Two position	
4/2	1 line, for air inlet 1 line, for exhaust	Four port (4-way) Two position	
4/3	Neutral mid-position (all ports closed)	Four port (4-way) Three position	
5/2	1 line, for air inlet 1 line, for exhaust 2 separate exhausts which can be restricted separately.	Five port (4-way) Two position	
5/3 (X)	Neutral mid-position (all ports closed)	Five port (4-way) Three position	
5/3 (Y)	Negative mid- position inlet, closed cylinder ports, open exhaust ports.	Five port (4-way) Three position	
5/3 (Z)	Positive mid- position cylinder, ports open to air inlet.	Five port (4-way) Three position	

Pneumatic symbols

Methods of valve actuation

Description of actuation	Symbol
Muscular actuation : General symbol (without indication of control type) <ul style="list-style-type: none"> - by push button - by lever - by pedal 	
Mechanical actuation : <ul style="list-style-type: none"> - by plunger or tracer - by spring - by roller - by roller, operating in one direction only. 	

Flow Control Valves

Description		Symbol
Throttle valve	Simplified symbol (Does not indicate the control method or the state of the valve)	
Flow control valve	Valve allows free flow in one direction but restricted flow in the other.	

Non-Return Valves, Shuttle Valves, Quick Exhaust Valves

Description of valves		Symbol
Non-return valve : <ul style="list-style-type: none"> - free - spring loaded 	Opens if the inlet pressure is higher than the outlet pressure. Opens if the inlet pressure is greater than the outlet pressure plus the spring pressure.	
Shuttle valve	The inlet port connected to the higher pressure is automatically connected to the outlet port while the other inlet port is closed.	
Quick exhaust valve	When the inlet port is unloaded the outlet port is freely exhausted.	

Pneumatic connectors design manual

Pneumatic symbols

A

Pneumatic cylinders

Description		Symbol
<p>Single-acting cylinder</p> <ul style="list-style-type: none"> - push type - pull type 	<p>Cylinder in which the air pressure operates in one direction only.</p>	
<p>Double acting cylinder</p> <ul style="list-style-type: none"> - with single piston rod - with double-ended piston rod (through rod) 	<p>Cylinder in which the air pressure operates alternately in both directions (forward and backward strokes)</p>	
<p>Cylinder with cushion :</p> <ul style="list-style-type: none"> - with double fixed cushion - with double adjustable cushion 		

Sources of Energy

Description		Symbol
<p>Pressure source</p>	<p>Simplified general symbol</p>	
<p>Electric motor</p>		
<p>Flow lines and connections</p> <p>Flow line :</p> <ul style="list-style-type: none"> - working line, return line and feed line - pilot control line - drain or bleed line - flexible pipe - electric line 	<p>Flexible hose, usually connecting moving parts</p>	

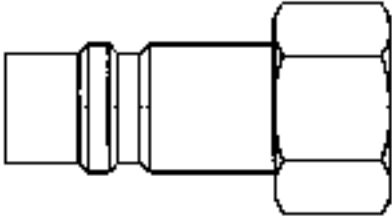
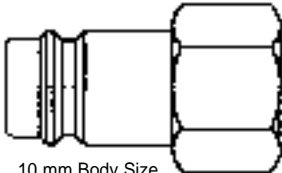
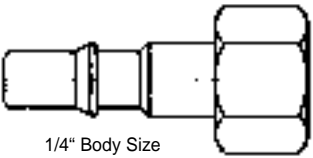
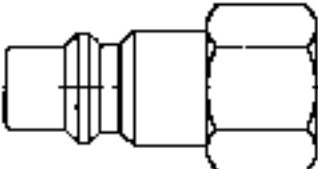
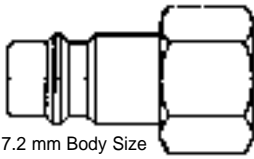
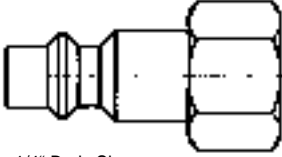
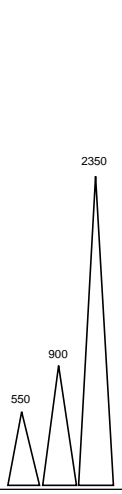
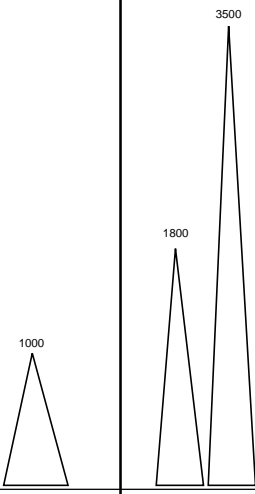


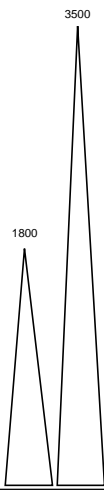
Pneumatic connectors design manual

A

Popular Coupling Designs

Parker's Quick Coupling Division manufactures quick couplings to interchange with popular designs that have become accepted standards in the industry today.

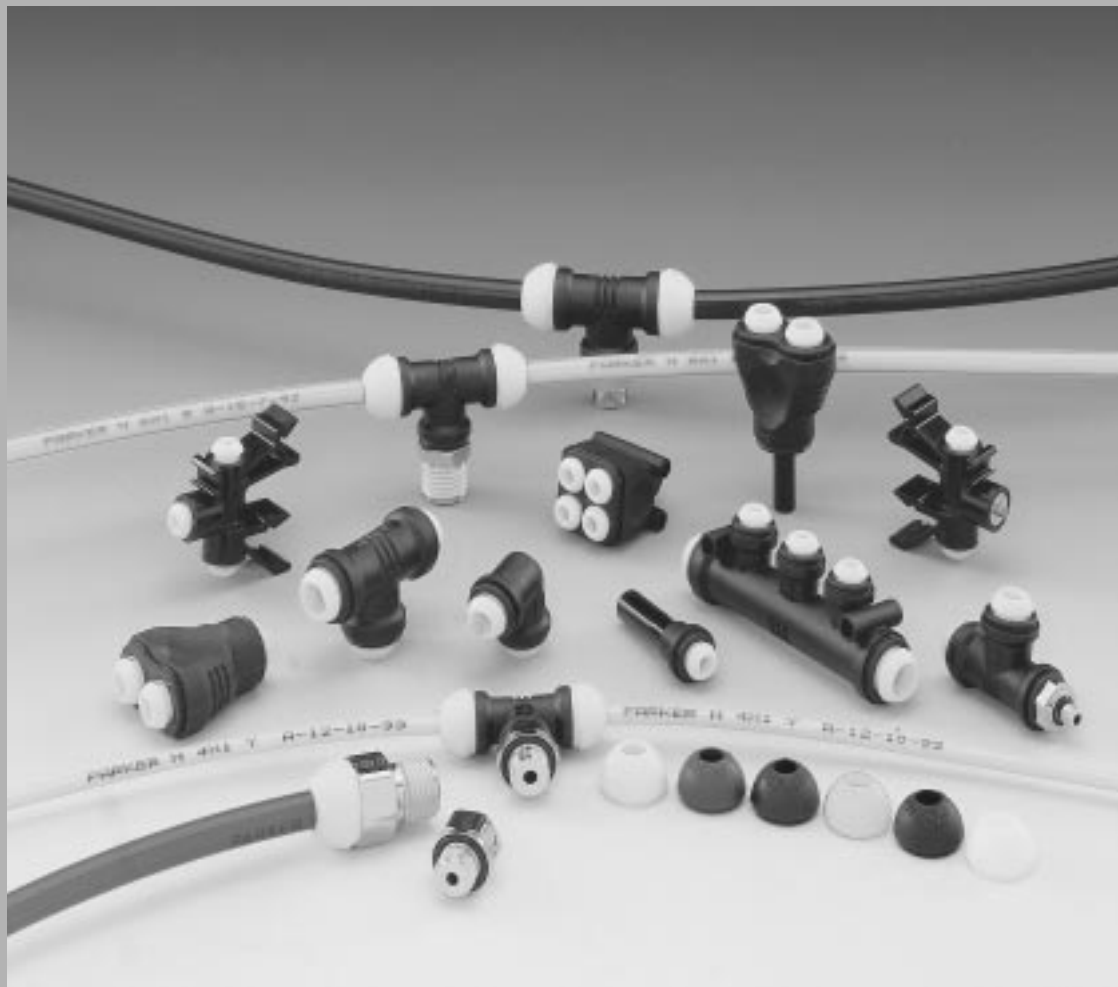
The actual size chart below can be used to help select Parker Quick Couplings that will interchange with specific nipple designs sizes and performance data.

STANDARD	ISO 6150-B			EUROPROFILE		ISO 6150-C
SERIES	PB Series 1/4"-3/8"-1/2"	PBF Series 1/4"	EZ Series 1/4"-3/8"-1/2"	PE Series 7.2 mm	PEF Series 7.2 mm - 10 mm	PCF Series 1/4"
MALE TIP ACTUAL SIZE	 <p>1/2" Body Size</p>			 <p>10 mm Body Size</p>		 <p>1/4" Body Size</p>
	 <p>3/8" Body Size</p>			 <p>7.2 mm Body Size</p>		
	 <p>1/4" Body Size</p>					
FLOW RATE (L/MIN)						
						
Max. operating pressure (bar)	35					
	20					
	16	•		•	•	
	15		•	•		•

Prestolok 2

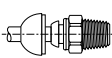
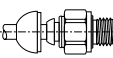
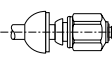
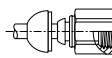
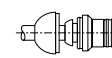

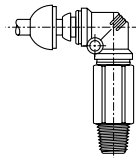
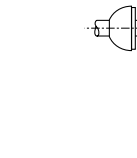
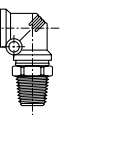
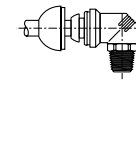
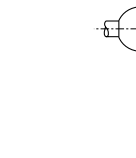
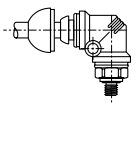
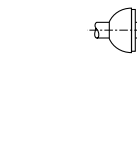
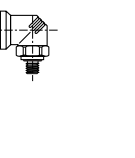
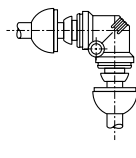
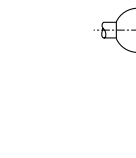
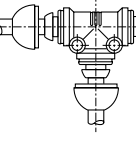
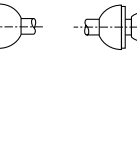
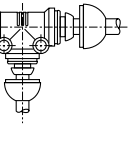
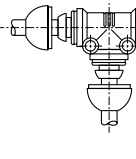
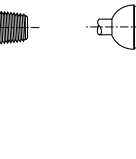
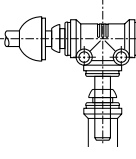
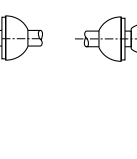
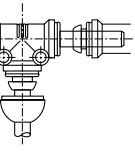
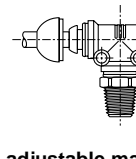
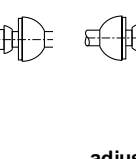
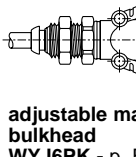
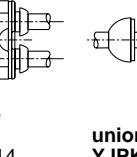
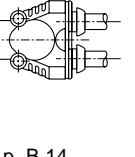
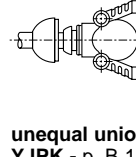
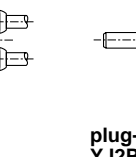
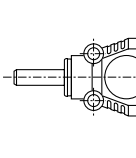
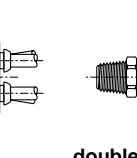
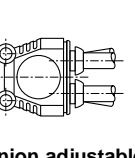
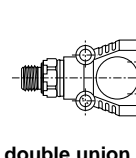
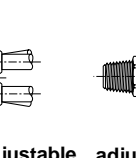
Push-in fitting

Catalogue 3528-2-UK



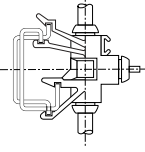
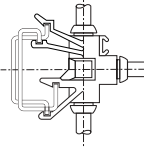
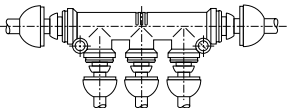
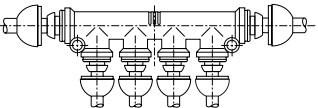
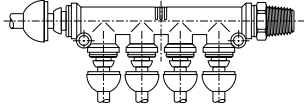
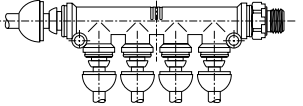


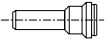
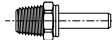
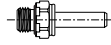
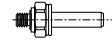
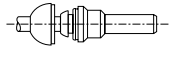
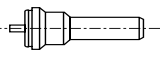
Prestolok 2 push-in fitting

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Straight connectors	 <p>male - BSPT F3PB - p. B 6</p>	 <p>male - BSPP F4PB - p. B 6</p>	 <p>male - metric F8PB - p. B 7</p>	 <p>female - BSPP G4PB - p. B 7</p>	 <p>union HPK - p. B 7</p>	 <p>unequal union HPK - p. B 7</p>
90° elbows	 <p>adjustable extended male - BSPT C63LPK - p. B 8</p>	 <p>adjustable male - BSPT C63PK - p. B 8</p>	 <p>compact adjustable male - BSPT C63SPK - p. B 8</p>	 <p>adjustable male BSPP C64PK - p. B 9</p>	 <p>compact adjustable male - BSPP C64SPK - p. B 9</p>	
	 <p>adjustable male - metric C68PK - p. B 9</p>	 <p>compact adjustable male - metric C68SPK - p. B 9</p>	 <p>union EPK - p. B 10</p>	 <p>compact plug-in T2ESPK - p. B 10</p>	 <p>adjustable bulkhead union WE6PK - p. B 10</p>	
Tees	 <p>union JPK - p. B 10</p>	 <p>unequal union JPK - p. B 11</p>	 <p>adjustable male run - BSPT R63PK - p. B 11</p>	 <p>adjustable male run - BSPP R64PK - p. B 11</p>	 <p>adjustable male run - metric R68PK - p. B 12</p>	
	 <p>plug-in branch T2JPK - p. B 12</p>	 <p>plug-in run T2JJPK - p. B 12</p>	 <p>adjustable male branch - BSPT S63PK - p. B 13</p>	 <p>adjustable male branch - BSPP S64PK - p. B 13</p>	 <p>adjustable male branch - metric S68PK - p. B 13</p>	
Y connectors	 <p>adjustable male bulkhead WYJ6PK - p. B 14</p>	 <p>union YJPK - p. B 14</p>	 <p>unequal union YJPK - p. B 14</p>	 <p>plug-in YJ2PK - p. B 14</p>	 <p>double union YJ5PK - p. B 14</p>	
	 <p>plug-in double YJ52PK - p. B 15</p>	 <p>double union adjustable male - BSPT YJ563PK - p. B 15</p>	 <p>double union adjustable male - BSPP YJ564PK - p. B 15</p>	 <p>adjustable male BSPT YJ63PK - p. B 15</p>	 <p>adjustable male BSPP YJ64PK - p. B 16</p>	

Prestolok 2 push-in fitting

Index

Manifolds	 2 tubes and pressure indicator HS3PK - p. B 16	 3 tubes J3PK - p. B 16	 multiple tee J5PK - p. B 17	 multiple tee J6PK - p. B 17		
	 multiple tee adjustable male - BSPT J663PK - p. B 17	 multiple tee adjustable male - BSPP J664PK - p. B 17				
Adaptors / Accessories	 protective cap C - p. B 18	 double male union BPK - p. B 19	 plug FNPK - p. B 19	 Tube end male adaptor - BSPT T23FPK - p. B 19	 Tube end male adaptor - BSPP T24FPK - p. B 19	 Tube end male adaptor - metric T28FPK - p. B 20
	 tube end reducer TR2PK - p. B 20	 pressure indicator TS2PK - p. B 20				
Cartridges	p. B 21 and B 22					
Complementary parts with brass body	Please consult Prestolok section (D)					
Technical tubing	Please consult Thermoplastic single tubes and Pneumo-Tube bundles section (P)					

B

Prestolok 2 push-in fitting

Prestolok 2 : push-in fitting for pneumatic applications

Principle

For a number of years Parker Hannifin has designed and manufactured push-in fittings recognised worldwide for their quality and reliability.

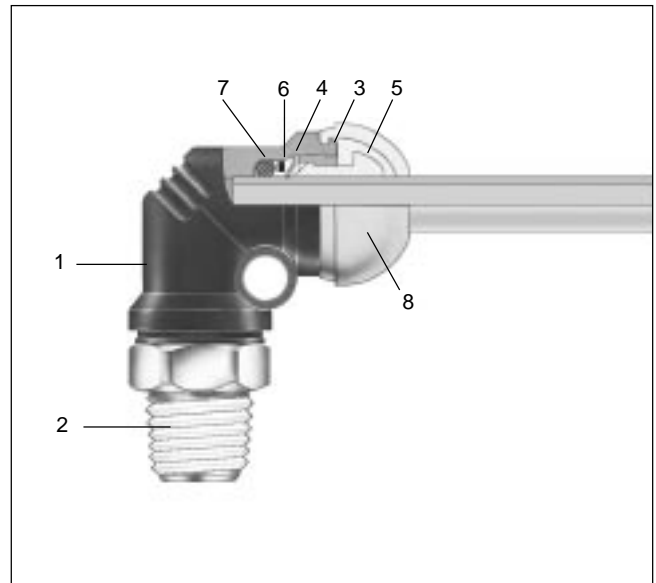
The new generation Prestolok 2 has been developed to provide even better technical features for the end user.

With this additional new product, Parker provides the solutions in many fields and applications.

Prestolok 2 uses “elastic teeth” grab ring technology, invented and perfected by Parker, who guarantee its excellent tube retention qualities.

Prestolok 2 can be used with most types of plastic tubing available on the market (see Thermoplastic single tube and Pneumo-Tube bundles section - P*), offering significant advantages to the user.

* For other materials, please consult us.

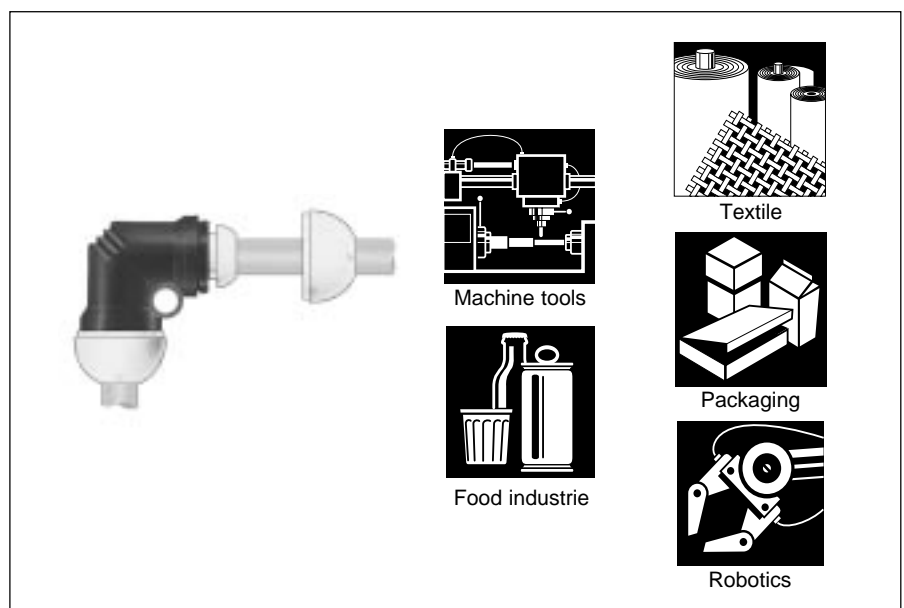


Technical features

1	2	Material						Working pressure	Working temperature
		3	4	5	6	7	8		
Body	Threaded straight connectors	Sleeve	Grab ring	Push button	Back-up washer	O-ring	Protective cap	From 0.01 to 18 bar	From - 25° C to + 80° C
Polyamide HR	Nickel plated brass	Nickel plated brass	Stainless steel	Polyacetal	Brass	Nitrile	Polyacetal		

Applications

Perfectly adapted for use with pneumatic systems in a large variety of industries, Prestolok 2 is also designed to handle many other fluids (please consult us) thus covering a wide range of applications.

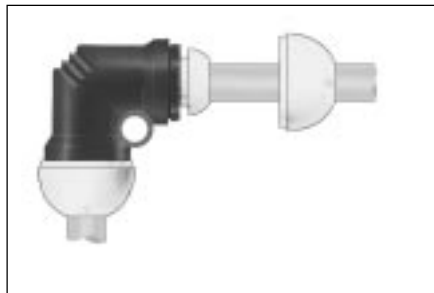


Advantages

Ready-to-use compact fitting

Wide product range covering all applications

Full flow capability



Protective cap

The design of the Prestolok 2 thermoplastic range permits the use of a protective cap for following functions :

- protection : prevents the ingress of dirt into the connection system,
- safety: eliminates the risk of accidental disconnection, as the push-button is made inaccessible,
- identification :
 - colour coding allows identification of fluid lines,
 - tube sizes are marked on the protective cap.



High resistance polyamide body

The use of UV-resistant reinforced polyamide provides :

- weight saving,
- excellent mechanical performance,
- compact design.

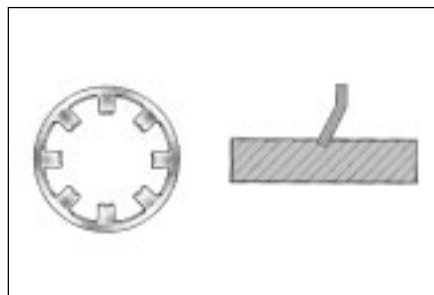
The three grooves facilitate handling and positioning of elbows and tees. A long service life is ensured by the corrosion free body material.



Ready-to-use fitting

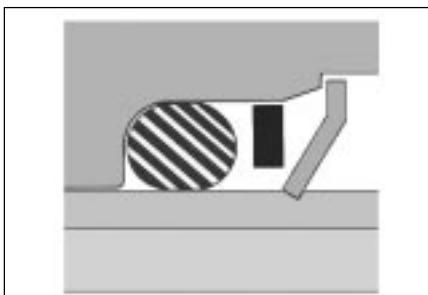
The Prestolok 2 range is manufactured with brass nickel plated male threads ready for use :

- parallel threads are supplied with a pre-assembled, fully retained O-ring seal,
- taper threads are treated with a special PTFE for self sealing on assembly, reusable up to five times without additional sealing material.



Positive hold by a flexible grab ring

- the special shape of the radial teeth grab ring prevents longitudinal scratch marks on the tube.
- the elasticity of the grab ring absorbs vibration and pulsating pressure.
- a twist-free assembly, the tube can rotate freely even under pressure.



Positive O-ring sealing

- the smooth unmarked tube is in direct contact with the nitrile O-ring, giving a positive seal.
- a unique back-up washer retains the O-ring in the optimum sealing position, protects it from the grab ring, and prevents extrusion under pressure.



Plastic push button

- simple manual pressure on the user friendly push button allows instant disconnection of the tube.
- tube sizes are marked on the push button for easy identification.

How to use

Assembly

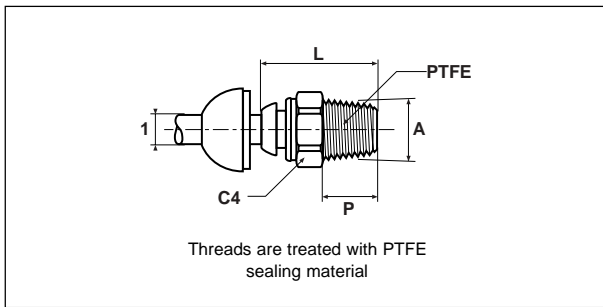
- Cut the tube square.
- Insert the tube into the fitting until it bottoms.

Disassembly

- Simply press on the push button and withdraw the tube

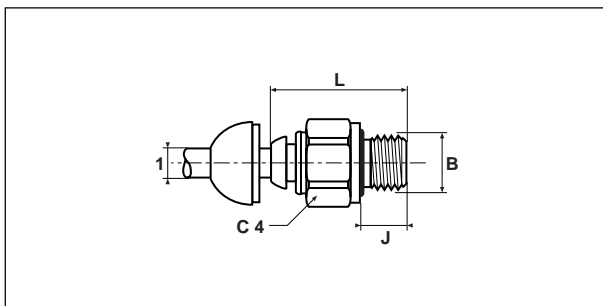
Prestolok 2 push-in fitting

F3PB - Male connector - BSPT



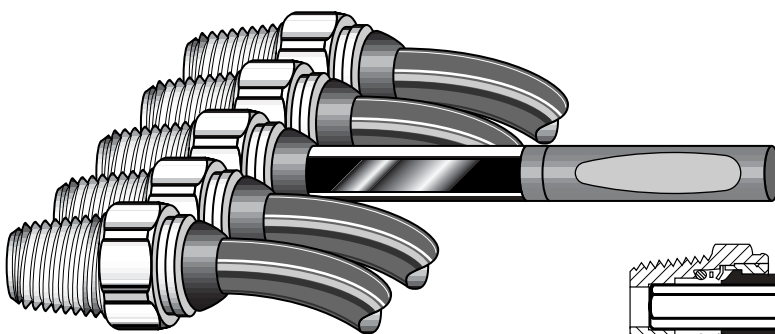
1	A	Part number	C4	L	P	H. Int.	Weight g.
4	1/8	F3PB4-1/8	12	20.5	7.5	3	14
4	1/4	F3PB4-1/4	14	23.0	11.0	3	21
5	1/8	F3PB5-1/8	11	22.5	7.5	4	13
5	1/4	F3PB5-1/4	14	24.0	11.0	4	17
6	1/8	F3PB6-1/8	14	24.0	7.5	4	19
6	1/4	F3PB6-1/4	14	24.0	11.0	4	22
8	1/8	F3PB8-1/8	17	28.0	7.5	4	31
8	1/4	F3PB8-1/4	17	28.5	11.0	4	31
8	3/8	F3PB8-3/8	17	26.5	11.5	6	28
10	1/4	F3PB10-1/4	19	35.5	11.0	6	45
10	3/8	F3PB10-3/8	19	33.0	11.5	8	48
10	1/2	F3PB10-1/2	22	31.0	15.0	8	47
12	1/4	F3PB12-1/4	22	36.5	11.0	6	68
12	3/8	F3PB12-3/8	22	36.0	11.5	10	48
12	1/2	F3PB12-1/2	22	36.0	15.0	10	56
14	3/8	F3PB14-3/8	24	39.0	11.5	10	91
14	1/2	F3PB14-1/2	24	37.0	15.0	11	83

F4PB - Male connector - BSPP

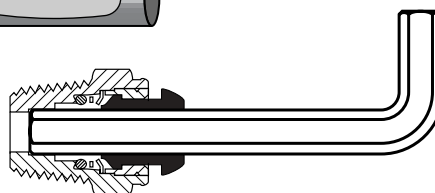


1	B	Part number	C4	J	L	H. Int.	Weight g.
4	1/8	F4PB4-1/8	13	6	21.7	3	16
4	1/4	F4PB4-1/4	16	9	23.3	3	27
6	1/8	F4PB6-1/8	13	6	25.3	4	17
6	1/4	F4PB6-1/4	16	9	26.0	4	41
8	1/8	F4PB8-1/8*	14	6	27.4	4	24
8	1/4	F4PB8-1/4	16	9	27.4	6	29
8	3/8	F4PB8-3/8	20	9	28.0	6	59
10	1/4	F4PB10-1/4	17	9	35.4	6	50
10	3/8	F4PB10-3/8	20	9	31.4	8	39
10	1/2	F4PB10-1/2	24	12	30.3	8	60
12	1/4	F4PB12-1/4	20	9	36.0	6	49
12	3/8	F4PB12-3/8*	20	9	35.7	8	49
12	1/2	F4PB12-1/2	24	12	34.1	10	72
14	3/8	F4PB14-3/8	22	9	38.3	8	66
14	1/2	F4PB14-1/2	24	12	37.4	10	81

* no protective cap facility

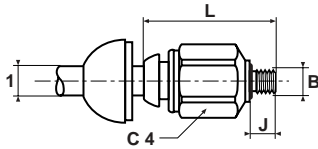


All straight male connectors have an internal hexagon for use with an Allen key to allow the fitting to be mounted in any position. This also permits close porting not possible when a spanner is used.



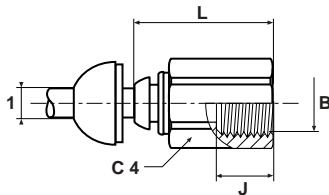
Prestolok 2 push-in fitting

F8PB - Male connector - metric straight thread



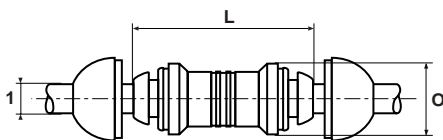
1	B	Part number	C4	J	L	H. Int.	Weight g.
4	M5x0.8	F8PB4M5	12	5	25.5	2.5	16
4	M10x1	F8PB4M10	14	8	24.0	3.0	17
6	M5x0.8	F8PB6M5	14	5	26.0	2.5	17
6	M10x1	F8PB6M10	14	8	28.0	4.0	17
6	M12x1.5	F8PB6M12	17	10	30.0	4.0	23
8	M12x1.5	F8PB8M12	17	10	30.0	6.0	25
8	M16x1.5	F8PB8M16	22	10	28.0	6.0	34
8	M22x1.5	F8PB8M22	27	12	30.0	6.0	55

G4PB - Female connector - BSPP



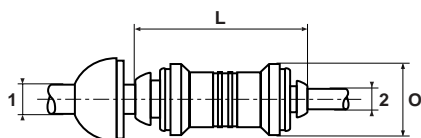
1	B	Part number	C4	J	L	Weight g.
4	1/8	G4PB4-1/8	14	9.5	26.0	22
6	1/8	G4PB6-1/8	14	9.5	27.5	21
6	1/4	G4PB6-1/4	17	14.0	33.0	22
8	1/8	G4PB8-1/8	17	9.5	29.0	44
8	1/4	G4PB8-1/4	17	14.0	33.0	29

HPK - Equal union



1	Part number	L	O	Weight g.
4	HPK4	33.5	13	5
6	HPK6	37.0	15	6
8	HPK8	39.0	17	10
10	HPK10	48.0	21	15
12	HPK12	49.0	23	21
14	HPK14	54.0	25	30

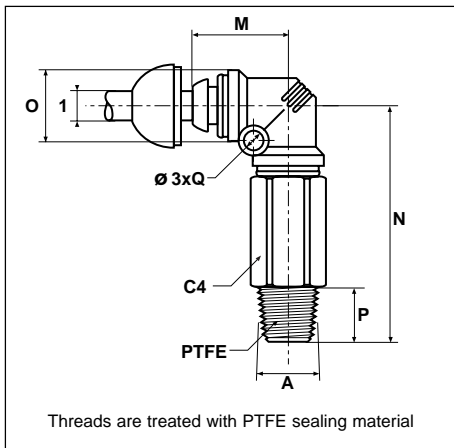
HPK - Unequal union



1	2	Part number	L	O	Weight g.
6	4	HPK6-4	36.0	15	8
8	4	HPK8-4	38.0	17	14
8	6	HPK8-6	39.0	17	12
10	6	HPK10-6	47.0	21	21
10	8	HPK10-8	47.0	21	19
12	10	HPK12-10	49.5	23	26

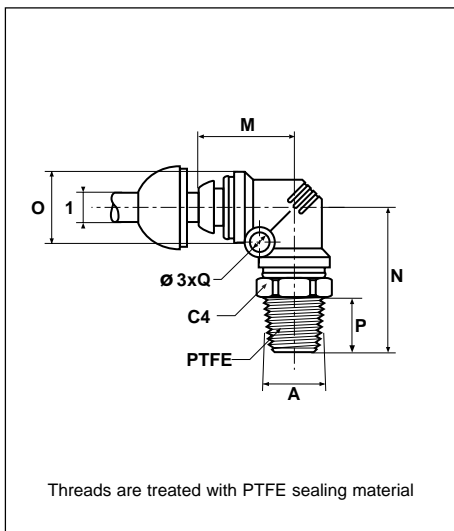
Prestolok 2 push-in fitting

C63LPK - Adjustable extended male elbow - BSPT



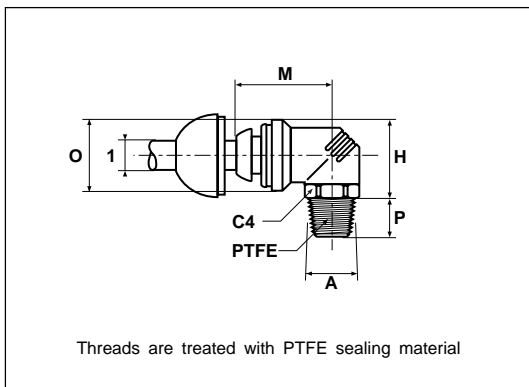
1	3 dia.	A	Part number	C4	M	N	O	P	Width Q	Weight g.
4	3.2	1/8	C63LPK4-1/8	10	18.0	41.0	13	7.5	15	22
4	3.2	1/4	C63LPK4-1/4	14	18.0	45.0	13	11.0	15	46
6	4.2	1/8	C63LPK6-1/8	11	20.5	45.0	15	7.5	17	28
6	4.2	1/4	C63LPK6-1/4	14	20.5	49.0	15	11.0	17	48
8	4.2	1/8	C63LPK8-1/8	14	22.5	49.5	17	7.5	19	46
8	4.2	1/4	C63LPK8-1/4	14	22.5	52.0	17	11.0	19	51

C63PK - Adjustable male elbow - BSPT



1	3 dia.	A	Part number	C4	M	N	O	P	Width Q	Weight g.
4	3.2	1/8	C63PK4-1/8	10	18.0	25.5	13	7.5	15.0	12
4	3.2	1/4	C63PK4-1/4	14	18.0	29.0	13	11.0	15.0	20
6	4.2	1/8	C63PK6-1/8	11	20.5	27.0	15	7.5	17.0	13
6	4.2	1/4	C63PK6-1/4	14	20.5	30.5	15	11.0	17.0	23
8	4.2	1/8	C63PK8-1/8	14	22.5	29.5	17	7.5	19.0	20
8	4.2	1/4	C63PK8-1/4	14	22.5	32.5	17	11.0	19.0	27
8	4.2	3/8	C63PK8-3/8	17	22.5	34.0	17	11.5	19.0	38
10	4.2	1/4	C63PK10-1/4	17	28.5	40.0	21	11.0	23.5	37
10	4.2	3/8	C63PK10-3/8	17	28.5	39.0	21	11.5	23.5	43
10	4.2	1/2	C63PK10-1/2	22	28.5	42.0	21	15.0	23.5	63
12	4.2	1/4	C63PK12-1/4	19	30.0	41.5	23	11.0	25.5	55
12	4.2	3/8	C63PK12-3/8	19	30.0	41.0	23	11.5	25.5	59
12	4.2	1/2	C63PK12-1/2	22	30.0	44.5	23	15.0	25.5	68
14	4.2	3/8	C63PK14-3/8	22	33.5	45.5	25	11.5	27.5	68
14	4.2	1/2	C63PK14-1/2	22	33.5	48.0	25	15.0	27.5	78

C63SPK - Compact adjustable male elbow - BSPT



1	A	Part number	C4	H	M	O	P	Weight g.
4	1/8	C63SPK4-1/8	10	14.5	20.5	13	6.5	9
4	1/4	C63SPK4-1/4	14	14.5	20.5	13	10.0	18
6	1/8	C63SPK6-1/8	11	16.5	23.0	15	6.5	14
6	1/4	C63SPK6-1/4	14	16.0	23.0	15	10.0	21
8	1/8	C63SPK8-1/8	14	19.5	25.0	17	6.5	15
8	1/4	C63SPK8-1/4	14	18.5	25.0	17	10.0	25
8	3/8	C63SPK8-3/8	17	18.5	25.0	17	10.0	28
10	1/4	C63SPK10-1/4	17	23.0	31.0	21	10.0	30
10	3/8	C63SPK10-3/8	17	22.5	31.0	21	10.0	36
10	1/2	C63SPK10-1/2	22	24.0	31.0	21	12.5	45

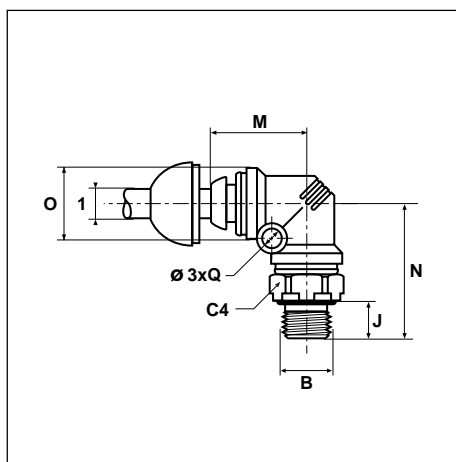
Our fittings are supplied without cap. See page-B 18

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

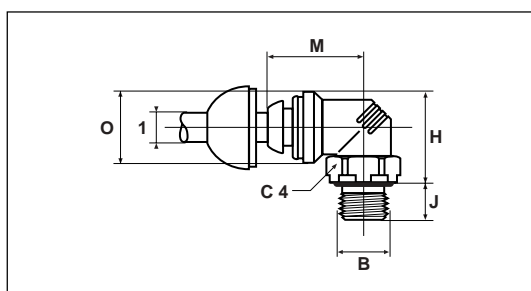
Prestolok 2 push-in fitting

C64PK - Adjustable male elbow - BSPP



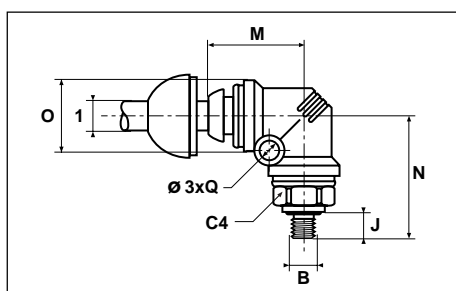
1	3 dia.	B	Part number	C4	J	M	N	O	Width Q	Weight g.
4	3.2	1/8	C64PK4-1/8	14	6	18.0	25.5	13	15.0	16
4	3.2	1/4	C64PK4-1/4	19	9	18.0	30.5	13	15.0	31
6	4.2	1/8	C64PK6-1/8	14	6	20.5	27.0	15	17.0	18
6	4.2	1/4	C64PK6-1/4	19	9	20.5	32.0	15	17.0	29
8	4.2	1/8	C64PK8-1/8	14	6	22.5	29.0	17	19.0	22
8	4.2	1/4	C64PK8-1/4	19	9	22.5	34.0	17	19.0	35
8	4.2	3/8	C64PK8-3/8	22	9	22.5	35.0	17	19.0	49
10	4.2	1/4	C64PK10-1/4	19	9	28.5	39.0	21	23.5	45
10	4.2	3/8	C64PK10-3/8	22	9	28.5	40.0	21	23.5	60
12	4.2	1/4	C64PK12-1/4	19	9	30.0	40.5	23	25.5	56
12	4.2	3/8	C64PK12-3/8	22	9	30.0	41.5	23	25.5	60
14	4.2	3/8	C64PK14-3/8	22	9	33.5	45.0	25	27.5	74
14	4.2	1/2	C64PK14-1/2	27	12	33.5	49.5	25	27.5	103

C64SPK - Compact adjustable male elbow - BSPP



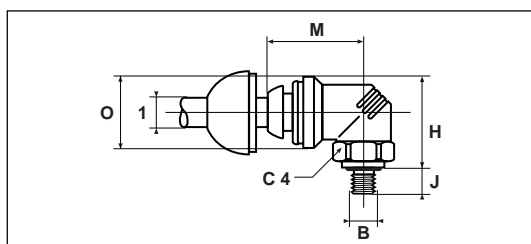
1	B	Part number	C4	H	J	M	O	Weight g.
4	1/8	C64SPK4-1/8	14	16.7	6	20.5	13	16
4	1/4	C64SPK4-1/4	19	17.4	9	20.5	13	28
6	1/8	C64SPK6-1/8	14	17.9	6	23.0	15	15
6	1/4	C64SPK6-1/4	19	19.4	9	23.0	15	29
8	1/8	C64SPK8-1/8	14	18.9	6	25.0	17	18
8	1/4	C64SPK8-1/4	19	20.4	9	25.0	17	32
8	3/8	C64SPK8-3/8	22	21.9	9	25.0	17	42

C68PK - Adjustable male elbow - metric straight thread



1	3 dia.	B	Part number	C4	J	M	N	O	Width Q	Weight g.
4	3.2	M3x0.5	C68PK4M3	10	3.5	18.0	22.0	13	15.0	9
4	3.2	M5x0.8	C68PK4M5	10	5.0	18.0	23.5	13	15.0	10
6	4.2	M5x0.8	C68PK6M5	11	5.0	20.5	25.0	15	17.0	12
8	4.2	M12x1.5	C68PK8M12	17	10.0	22.5	35.0	17	19.0	34
8	4.2	M16x1.5	C68PK8M16	22	10.0	22.5	35.0	17	19.0	43
8	4.2	M22x1.5	C68PK8M22	27	12.0	22.5	39.0	17	19.0	91
10	4.2	M12x1.5	C68PK10M12	17	10.0	28.5	40.0	19	23.5	55

C68SPK - Compact adjustable male elbow - metric straight



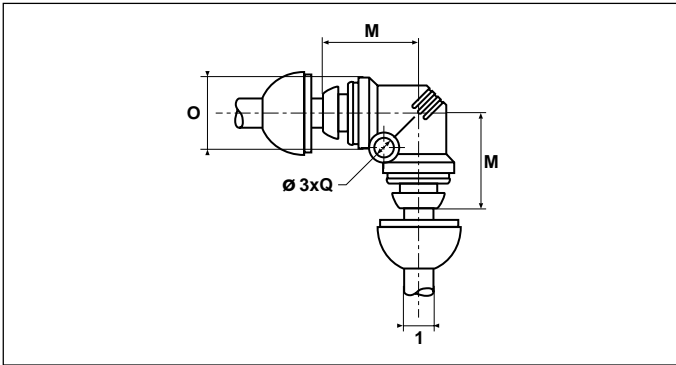
1	B	Part number	C4	H	J	M	O	Weight g.
4	M5x0.8	C68SPK4M5	10	15.5	5	20.5	13	6

Our fittings are supplied without cap. See page-B 18

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

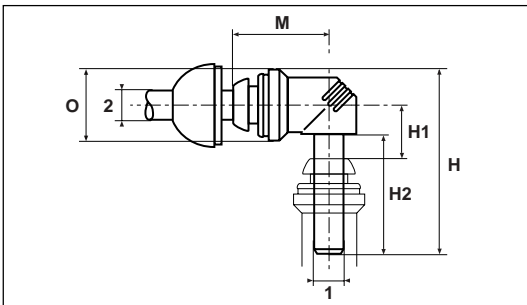
Prestolok 2 push-in fitting

EPK - Equal union elbow



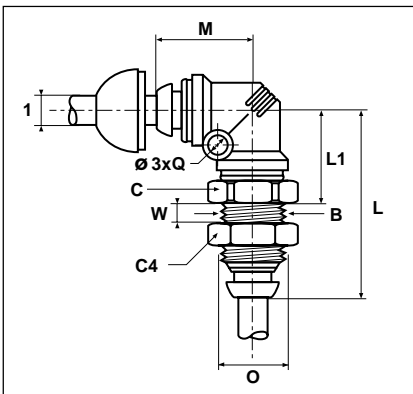
1	3 dia.	Part number	M	O	Width Q	Weight g.
4	3.2	EPK4	18.0	13	15.0	6
6	4.2	EPK6	20.5	15	17.0	7
8	4.2	EPK8	22.5	17	19.0	10
10	4.2	EPK10	28.5	21	23.5	17
12	4.2	EPK12	30.0	23	25.5	23
14	4.2	EPK14	33.5	25	27.5	31

T2ESPK - Compact plug-in elbow



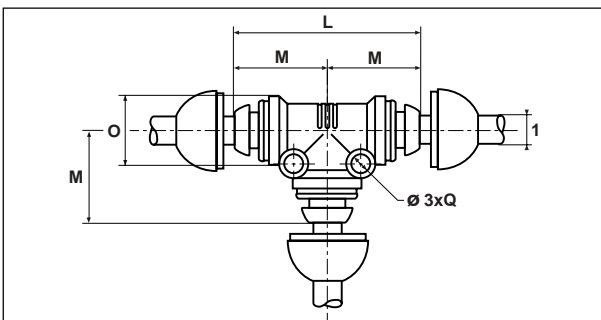
1	2	Part number	H	H1	H2	M	O	Weight g.
4	4	T2ESPK4	31	8.5	19	20.5	13	4
6	6	T2ESPK6	36	11.5	22	23.0	15	5
4	6	T2ESPK4-6	33	9.5	19	23.0	15	5
8	8	T2ESPK8	38	11.0	22	25.0	17	8

WE6PK - 90° adjustable bulkhead union elbow



1	3 dia.	B	Part number	C	C4	L	L1	M	O	Width Q	W Max.	Weight g.
4	3.2	M11x0.75	WE6PK4	14	16	37	18.0	18.0	11.5	15.0	6	22
6	4.2	M13x1	WE6PK6	17	17	39	19.5	20.5	13.5	17.0	6	38
8	4.2	M15x1.25	WE6PK8	19	19	43	21.5	22.5	15.5	19.0	6	52
10	4.2	M18x1	WE6PK10	22	22	54	29.0	28.5	18.5	23.5	8	107
12	4.2	M23x1.5	WE6PK12	27	27	59	30.0	30.0	23.5	25.5	10	139

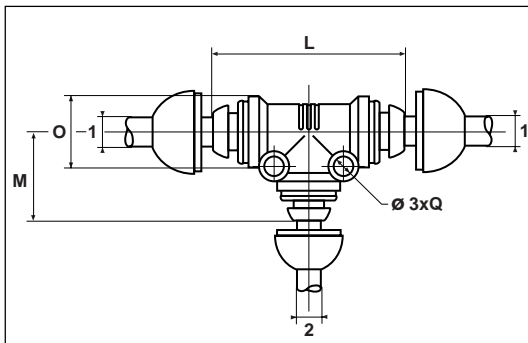
JPK - Equal union tee



1	3 dia.	Part number	L	M	O	Width Q	Weight g.
4	3.2	JPK4	36	18.0	13	15.0	8
6	4.2	JPK6	41	20.5	15	17.0	9
8	4.2	JPK8	45	22.5	17	19.0	14
10	4.2	JPK10	57	28.5	21	23.5	24
12	4.2	JPK12	60	30.0	23	25.5	33
14	4.2	JPK14	67	33.5	25	27.5	45

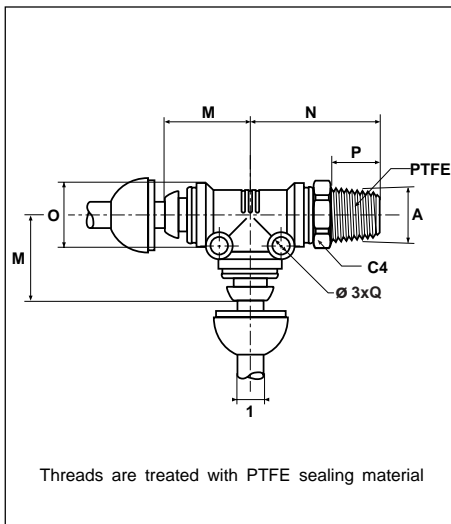
Prestolok 2 push-in fitting

JPK - Unequal union tee



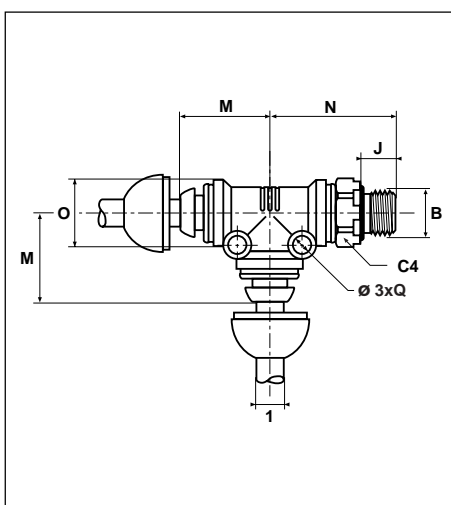
1	2	3 dia.	Part number	L	M	O	Width Q	Weight g.
6	4	4.2	JPK6-6-4	41	21.5	15	17.0	12
8	6	4.2	JPK8-8-6	45	22.5	17	19.0	18
10	8	4.2	JPK10-10-8	57	28.5	21	23.5	29
12	10	4.2	JPK12-12-10	60	30.0	23	25.5	38
4	6	4.2	JPK4-4-6	43	20.5	15	17.0	17
6	8	4.2	JPK6-6-8	45	22.5	17	19.0	18
8	10	4.2	JPK8-8-10	57	28.5	21	23.5	34
10	12	4.2	JPK10-10-12	61	30.5	23	25.5	43

R63PK - Adjustable male run tee - BSPT



1	3 dia.	A	Part number	C4	M	N	O	P	Width Q	Weight g.
4	3.2	1/8	R63PK4-1/8	10	18.0	25.5	13	7.5	15.0	15
4	3.2	1/4	R63PK4-1/4	14	18.0	29.0	13	11.0	15.0	23
6	4.2	1/8	R63PK6-1/8	11	20.5	27.0	15	7.5	17.0	16
6	4.2	1/4	R63PK6-1/4	14	20.5	30.5	15	11.0	17.0	26
8	4.2	1/8	R63PK8-1/8	14	22.5	29.5	17	7.5	19.0	24
8	4.2	1/4	R63PK8-1/4	14	22.5	32.5	17	11.0	19.0	31
8	4.2	3/8	R63PK8-3/8	17	22.5	34.0	17	11.5	19.0	42
10	4.2	1/4	R63PK10-1/4	17	28.5	40.0	21	11.0	23.5	44
10	4.2	3/8	R63PK10-3/8	17	28.5	39.0	21	11.5	23.5	51
12	4.2	1/4	R63PK12-1/4	19	30.0	41.5	23	11.0	25.5	65
12	4.2	3/8	R63PK12-3/8	19	30.0	41.0	23	11.5	25.5	69
12	4.2	1/2	R63PK12-1/2	22	30.0	44.5	23	15.0	25.5	78
14	4.2	3/8	R63PK14-3/8	22	33.5	45.5	25	11.5	27.5	82
14	4.2	1/2	R63PK14-1/2	22	33.5	48.0	25	15.0	27.5	92

R64PK - Adjustable male run tee - BSPP



1	3 dia.	B	Part number	C4	J	M	N	O	Width Q	Weight g.
4	3.2	1/8	R64PK4-1/8	14	6	18.0	25.5	13	15.0	18
4	3.2	1/4	R64PK4-1/4	19	9	18.0	30.5	13	15.0	34
6	4.2	1/8	R64PK6-1/8	14	6	20.5	27.0	15	17.0	21
6	4.2	1/4	R64PK6-1/4	19	9	20.5	32.0	15	17.0	32
8	4.2	1/8	R64PK8-1/8	14	6	22.5	29.0	17	19.0	26
8	4.2	1/4	R64PK8-1/4	19	9	22.5	34.0	17	19.0	38
8	4.2	3/8	R64PK8-3/8	22	9	22.5	35.0	17	19.0	53
10	4.2	1/4	R64PK10-1/4	19	9	28.5	39.0	21	23.5	52
10	4.2	3/8	R64PK10-3/8	22	9	28.5	40.0	21	23.5	68
12	4.2	1/4	R64PK12-1/4	19	9	30.0	40.5	23	25.5	66
12	4.2	3/8	R64PK12-3/8	22	9	30.0	41.5	23	25.5	70
14	4.2	3/8	R64PK14-3/8	22	9	33.5	45.0	25	27.5	88
14	4.2	1/2	R64PK14-1/2	27	12	33.5	49.5	25	27.5	117

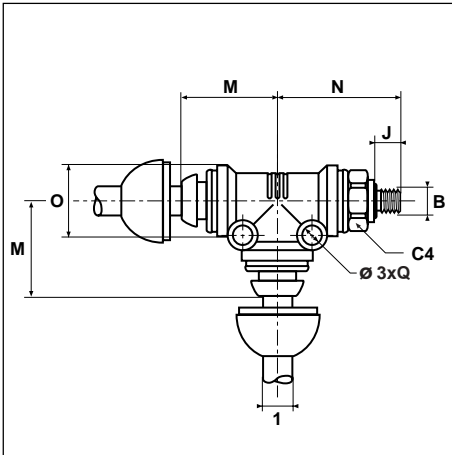
Our fittings are supplied without cap. See page-B 18

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

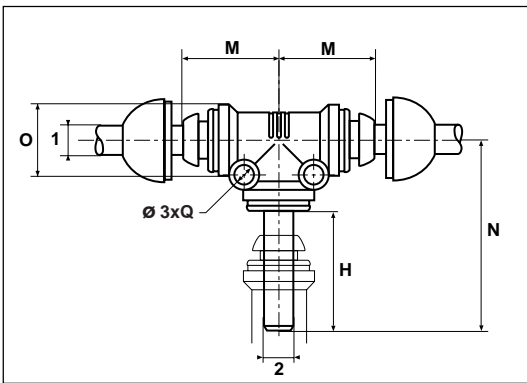
Prestolok 2 push-in fitting

R68PK - Adjustable male run tee - metric straight thread



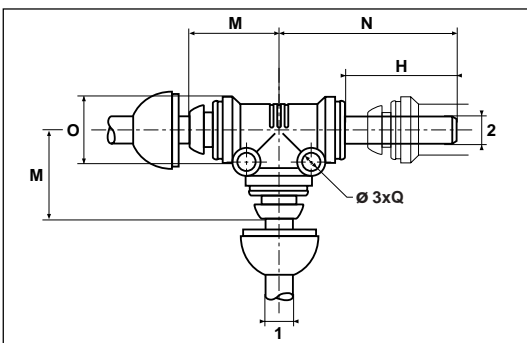
1	3 dia.	B	Part number	C4	J	M	N	O	Width Q	Weight g.
4	3.2	M3x0.5	R68PK4M3	10	3.5	18.0	22.0	13	15	11
4	3.2	M5x0.8	R68PK4M5	10	5.0	18.0	23.5	13	15	12
6	4.2	M5x0.8	R68PK6M5	11	5.0	20.5	25.0	15	17	15
8	4.2	M12x1.5	R68PK8M12	17	10.0	22.5	35.0	17	19	38
8	4.2	M16x1.5	R68PK8M16	22	10.0	22.5	35.0	17	19	49
8	4.2	M22x1.5	R68PK8M22	27	12.0	22.5	39.0	17	19	91

T2JPK - Plug-in branch tee



1	2	3 dia.	Part number	H	M	N	O	Width Q	Weight g.
4	4	3.2	T2JPK4	19.5	18.0	33.5	13	15	7
6	6	4.2	T2JPK6	21.0	20.5	36.5	15	17	9
8	8	4.2	T2JPK8	22.0	22.5	39.5	17	19	13

T2JJPk - Plug-in run tee



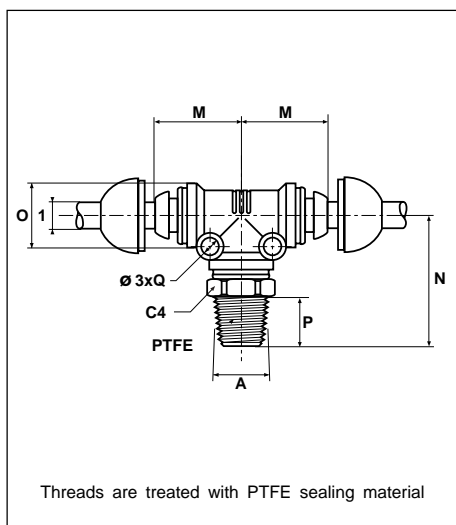
1	2	3 dia.	Part number	H	M	N	O	Width Q	Weight g.
4	4	3.2	T2JJPk4	19.5	18.0	33.5	13	15	7
6	6	4.2	T2JJPk6	21.0	20.5	36.5	15	17	9
8	8	4.2	T2JJPk8	22.0	22.5	39.5	17	19	13

Our fittings are supplied without cap. See page-B 18

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

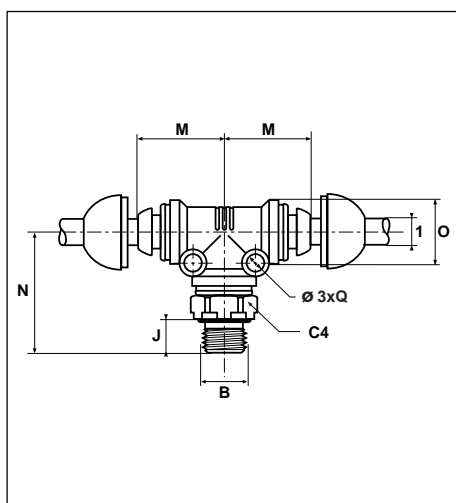
Prestolok 2 push-in fitting

S63PK - Adjustable male branch tee - BSPT



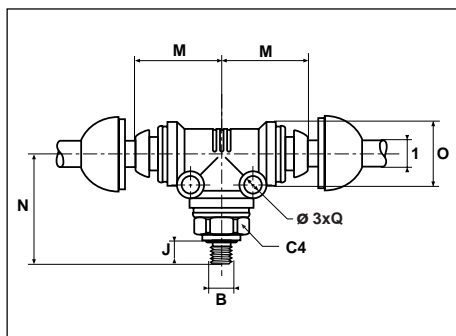
1	3 dia.	A	Part number	C4	M	N	O	P	Width Q	Weight g.
4	3.2	1/8	S63PK4-1/8	10	18.0	25.5	13	7.5	15.0	15
4	3.2	1/4	S63PK4-1/4	14	18.0	29.0	13	11.0	15.0	23
6	4.2	1/8	S63PK6-1/8	11	20.5	27.0	15	7.5	17.0	16
6	4.2	1/4	S63PK6-1/4	14	20.5	30.5	15	11.0	17.0	26
8	4.2	1/8	S63PK8-1/8	14	22.5	29.5	17	7.5	19.0	24
8	4.2	1/4	S63PK8-1/4	14	22.5	32.5	17	11.0	19.0	31
8	4.2	3/8	S63PK8-3/8	17	22.5	34.0	17	11.5	19.0	42
10	4.2	1/4	S63PK10-1/4	17	28.5	40.0	21	11.0	23.5	44
10	4.2	3/8	S63PK10-3/8	17	28.5	39.0	21	11.5	23.5	51
12	4.2	1/4	S63PK12-1/4	19	30.0	41.5	23	11.0	25.5	65
12	4.2	3/8	S63PK12-3/8	19	30.0	41.0	23	11.5	25.5	69
12	4.2	1/2	S63PK12-1/2	22	30.0	44.5	23	15.0	25.5	78
14	4.2	3/8	S63PK14-3/8	22	33.5	45.5	25	11.5	27.5	82
14	4.2	1/2	S63PK14-1/2	22	33.5	48.0	25	15.0	27.5	92

S64PK - Adjustable male branch tee - BSPP



1	3 dia.	B	Part number	C4	J	M	N	O	Width Q	Weight g.
4	3.2	1/8	S64PK4-1/8	14	6	18.0	25.5	13	15.0	18
4	3.2	1/4	S64PK4-1/4	19	9	18.0	30.5	13	15.0	34
6	4.2	1/8	S64PK6-1/8	14	6	20.5	27.0	15	17.0	21
6	4.2	1/4	S64PK6-1/4	19	9	20.5	32.0	15	17.0	32
8	4.2	1/8	S64PK8-1/8	14	6	22.5	29.0	17	19.0	26
8	4.2	1/4	S64PK8-1/4	19	9	22.5	34.0	17	19.0	38
8	4.2	3/8	S64PK8-3/8	22	9	22.5	35.0	17	19.0	53
10	4.2	1/4	S64PK10-1/4	19	9	28.5	39.0	21	23.5	52
10	4.2	3/8	S64PK10-3/8	22	9	28.5	40.0	21	23.5	68
12	4.2	1/4	S64PK12-1/4	19	9	30.0	40.5	23	25.5	66
12	4.2	3/8	S64PK12-3/8	22	9	30.0	41.5	23	25.5	70
14	4.2	3/8	S64PK14-3/8	22	9	33.5	45.0	25	27.5	88
14	4.2	1/2	S64PK14-1/2	27	12	33.5	49.5	25	27.5	117

S68PK - Adjustable male branch tee - metric straight thread



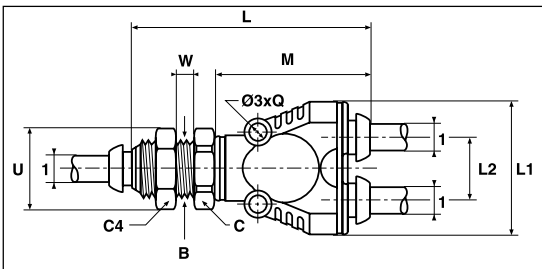
1	3 dia.	B	Part number	C4	J	M	N	O	Width Q	Weight g.
4	3.2	M3x0.5	S68PK4M3	10	3.5	18.0	22.0	13	15	11
4	3.2	M5x0.8	S68PK4M5	10	5.0	18.0	23.5	13	15	12
6	4.2	M5x0.8	S68PK6M5	11	5.0	20.5	25.0	15	17	15
8	4.2	M12x1.5	S68PK8M12	17	10.0	22.5	35.0	17	19	38
8	4.2	M16x1.5	S68PK8M16	22	10.0	22.5	35.0	17	19	49
8	4.2	M22x1.5	S68PK8M22	27	12.0	22.5	39.0	17	19	91

Our fittings are supplied without cap. See page-B 18

For product availability please consult our price list 0093-UK.
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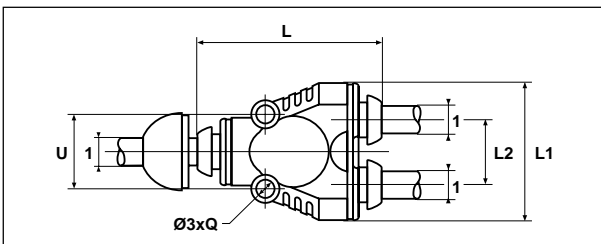
Prestolok 2 push-in fitting

WYJ6PK - Adjustable male bulkhead Y connector



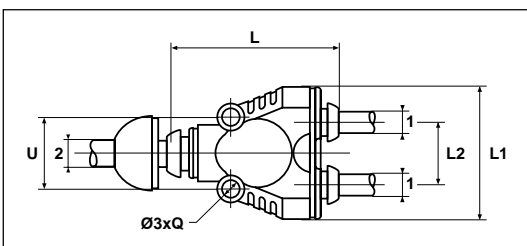
1	B	3 dia.	Part number	C	C4	L	L1	L2	M	Width Q	U	W Maxi	Weight g.
4	M11x0.75	3.2	WYJ6PK4	14	16	46	22	11.0	27	15	14.4	6	38
6	M13x1	4.2	WYJ6PK6	17	17	54	30	13.5	35	17	17.0	6	21
8	M15x1.25	4.2	WYJ6PK8	19	19	64	30	13.5	35	19	18.4	6	50

YJPK - Union Y connector



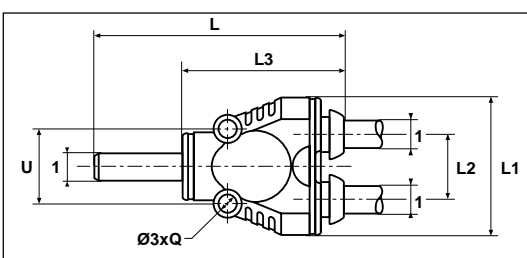
1	3 dia.	Part number	L	L1	L2	Width Q	U	Weight g.
4	3.2	YJPK4	31	22	11.0	17	17.0	15
6	4.2	YJPK6	40	30	13.5	19	19.0	20
8	4.2	YJPK8	40	39	18.0	24	23.6	40
10	4.2	YJPK10	52	39	18.0	24	19.3	35

YJPK - Unequal union Y connector



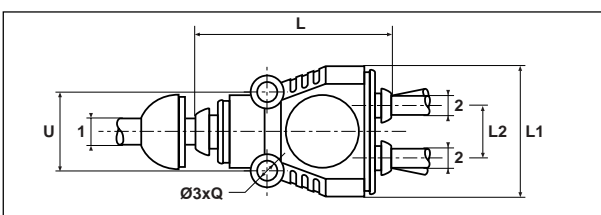
1	2	3 dia.	Part number	L	L1	L2	Width Q	U	Weight g.
4	6	4.2	YJPK4-4-6	40	30	13.5	17	14.4	19
6	8	4.2	YJPK6-6-8	40	30	13.5	19	17.0	32
8	10	4.2	YJPK8-8-10	40	31	13.6	19	18.4	43

YJ2PK - Plug-in Y connector



1	3 dia.	Part number	L	L1	L2	L3	Width Q	U	Weight g.
4	3.2	YJ2PK4	46.5	22	11.0	27	15	14.4	11
6	4.2	YJ2PK6	56.0	30	13.5	35	17	17.0	20
8	4.2	YJ2PK8	57.0	30	13.5	35	19	18.4	24
10	4.2	YJ2PK10	73.0	39	18.0	46	24	19.3	40

YJ5PK - Union double Y connector

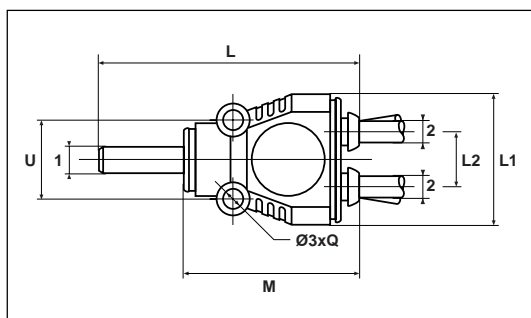


1	2	3 dia.	Part number	L	L1	L2	Width Q	U	Weight g.
4	4	3.2	YJ5PK4	35	22.5	9.5	24.5	14.4	20
6	4	4.2	YJ5PK6-4	38	22.5	9.5	24.5	17.0	22

For product availability please consult our price list 0093-UK.
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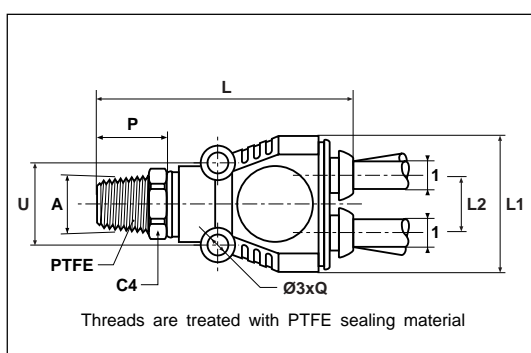
Prestolok 2 push-in fitting

YJ52PK - Plug-in double Y connector



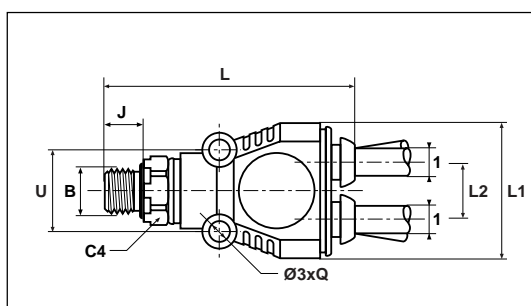
1	2	3 dia.	Part number	L	L1	L2	M	Width Q	U	Weight g.
6	4	3.2	YJ52PK6-4	52	22.5	9.5	31	24.5	14.4	23

YJ563PK - Union double Y connector adjustable male - BSPT



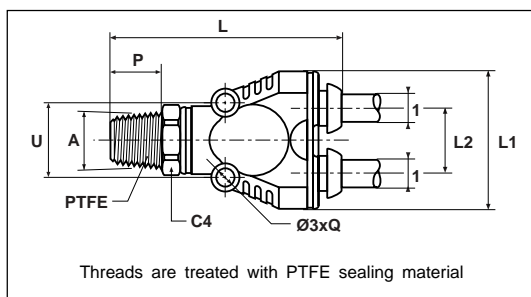
1	3 dia.	A	Part number	C4	L	L1	L2	P	Width Q	U	Weight g.
4	3.2	1/8	YJ563PK4-1/8	10	42.5	22.5	9.5	7.5	24.5	14.4	24
4	3.2	1/4	YJ563PK4-1/4	14	46.0	22.5	9.5	11.0	24.5	14.4	33

YJ564PK - Union double Y connector adjustable male - BSPP



1	B	3 dia.	Part number	C4	J	L	L1	L2	Width Q	U	Weight g.
4	1/8	3.2	YJ564PK4-1/8	14	6	42.5	22.5	9.5	24.5	14.4	27
4	1/4	3.2	YJ564PK4-1/4	19	9	47.5	22.5	9.5	24.5	14.4	43

YJ63PK - Adjustable male Y connector - BSPT

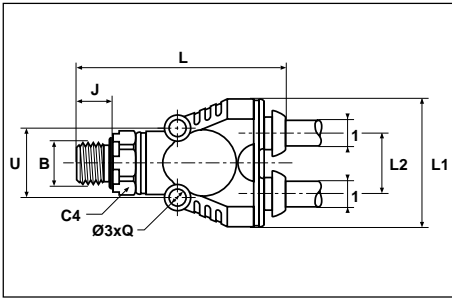


1	A	3 dia.	Part number	C4	L	L1	L2	P	Width Q	U	Weight g.
4	1/8	3.2	YJ63PK4-1/8	10	38.5	22	11.0	7.5	15	14.4	18
4	1/4	3.2	YJ63PK4-1/4	14	42.0	22	11.0	11.0	15	14.4	26
6	1/8	4.2	YJ63PK6-1/8	11	51.5	30	13.5	7.5	17	17.0	22
6	1/4	4.2	YJ63PK6-1/4	14	50.0	30	13.5	11.0	17	17.0	31
8	1/8	4.2	YJ63PK8-1/8	14	47.0	30	13.5	7.5	19	18.4	34
8	1/4	4.2	YJ63PK8-1/4	14	50.0	30	13.5	11.0	19	18.4	41
10	1/4	4.2	YJ63PK10-1/4	17	62.6	39	18.0	11.0	24	19.3	60
10	3/8	4.2	YJ63PK10-3/8	19	61.3	39	18.0	11.5	24	19.3	77

For product availability please consult our price list 0093-UK.
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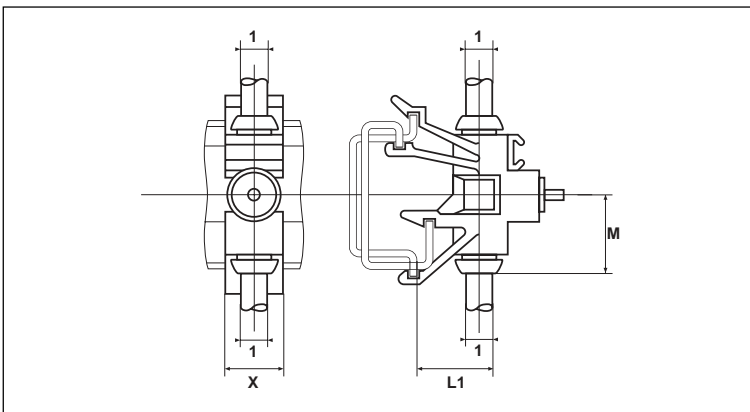
Prestolok 2 push-in fitting

YJ64PK - Adjustable male Y connector - BSPP



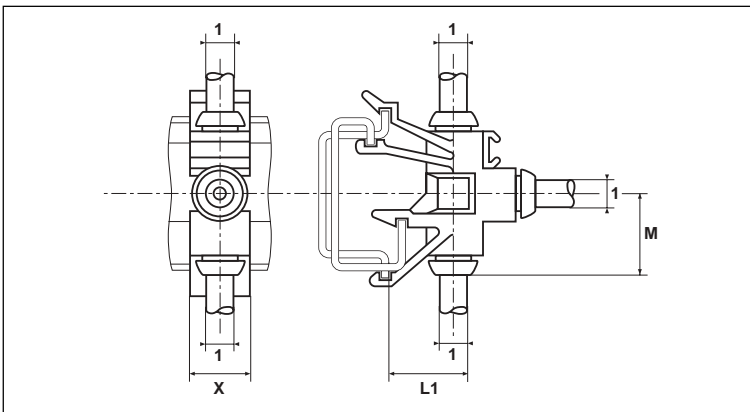
1	B	3 dia	Part number	C4	J	L	L1	L2	Width Q	U	Weight g.
4	1/8	3.2	YJ64PK4-1/8	14	6	38.5	22	11.0	15	14.4	22
4	1/4	3.2	YJ64PK4-1/4	19	9	43.5	22	11.0	15	14.4	37
6	1/8	4.2	YJ64PK6-1/8	14	6	46.5	30	13.5	17	17.0	26
6	1/4	4.2	YJ64PK6-1/4	19	9	51.5	30	13.5	17	17.0	37
8	1/8	4.2	YJ64PK8-1/8	14	6	46.5	30	13.5	19	18.4	36
8	1/4	4.2	YJ64PK8-1/4	19	9	51.5	30	13.5	19	18.4	48
10	1/4	4.2	YJ64PK10-1/4	19	9	62.5	39	19.3	24	19.3	58
10	3/8	4.2	YJ64PK10-3/8	22	9	63.5	39	19.3	24	19.3	75

HS3PK - Manifold for 2 tubes and pressure indicator



1	Part number	L1	M	X	Weight g.
4	HS3PK4	14	16	12	12
6	HS3PK6	15	18	14	15
8	HS3PK8	15	29	14	31

J3PK - Manifold for 3 tubes



1	Part number	L1	M	X	Weight g.
4	J3PK4	14	16	12	10
6	J3PK6	15	18	14	12
8	J3PK8	15	29	16	35

Manifolds

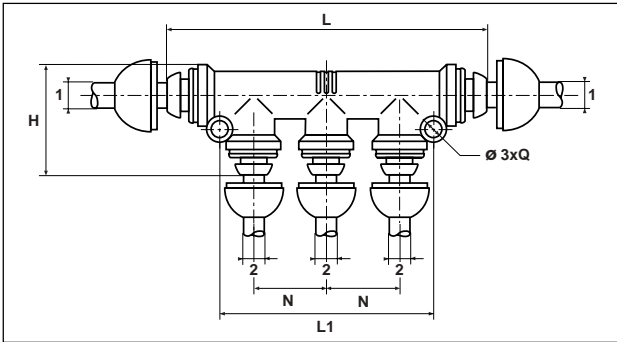


Prestolok manifolds permit close porting and compact modular assemblies on mounting rails, irrespective of :

- the DIN profiles used : 46277 T1 (32x15x1.5), 46277 T3 (35x15x1.5), 46277 T3 (35x7.5x1).
- the desired manifold configuration (3 tube connections, or 2 tube connections + pressure indicator).
- the tube O.D. (4, 6 or 8 mm).

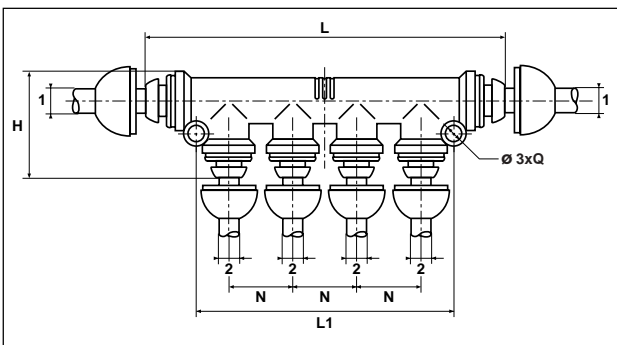
Prestolok 2 push-in fitting

J5PK - Multiple tee



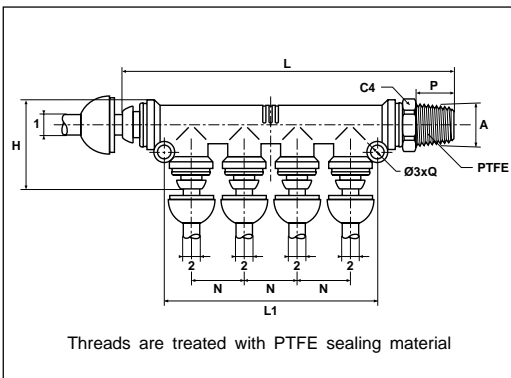
1	2	3	Part number	H	L	L1	N	Width Q	Weight g.
6	4	4.4	J5PK6-4	27	78	52	18	15	16
8	4	4.4	J5PK8-4	28	80	52	18	17	21
8	6	4.4	J5PK8-6	30	80	52	18	17	19
10	6	4.4	J5PK10-6	33	90	52	18	21	24

J6PK - Multiple tee



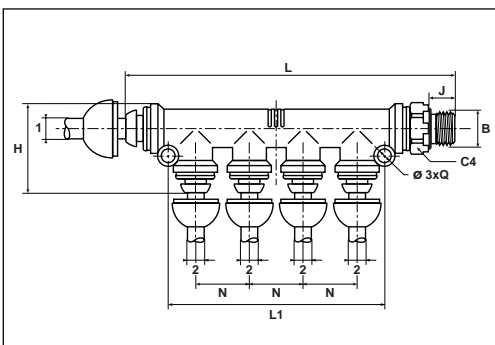
1	2	3	Part number	H	L	L1	N	Width Q	Weight g.
6	4	4.4	J6PK6-4	27	96	70	18	15	20
8	4	4.4	J6PK8-4	28	98	70	18	17	25
8	6	4.4	J6PK8-6	30	98	70	18	17	24
10	6	4.4	J6PK10-6	33	108	70	18	21	28

J663PK - Adjustable male multiple tee - BSPT



1	2	3	A	Part number	C4	H	L	L1	N	P	Width Q	Weight g.
6	4	4.4	1/8	J663PK6-4-1/8	10	27	103.0	70	18	7.5	15	31
6	4	4.4	1/4	J663PK6-4-1/4	14	27	106.5	70	18	11.0	15	40
8	4	4.4	1/8	J663PK8-4-1/8	10	28	103.0	70	18	7.5	17	39
8	4	4.4	1/4	J663PK8-4-1/4	14	28	106.5	70	18	11.0	17	45
8	4	4.4	3/8	J663PK8-4-3/8	17	28	108.0	70	18	11.5	17	57
8	6	4.4	1/8	J663PK8-6-1/8	10	30	103.0	70	18	7.5	17	40
8	6	4.4	1/4	J663PK8-6-1/4	14	30	106.5	70	18	11.0	17	46
8	6	4.4	3/8	J663PK8-6-3/8	17	30	108.0	70	18	11.5	17	58
10	6	4.4	1/4	J663PK10-6-1/4	14	33	116.4	70	18	11.0	21	60
10	6	4.4	3/8	J663PK10-6-3/8	17	33	117.9	70	18	11.5	21	67

J664PK - Adjustable male multiple tee - BSPP



1	2	3	B	Part number	C4	H	J	L	L1	N	Width Q	Weight g.
6	4	4.4	1/8	J664PK6-4-1/8	14	27	7.5	103.0	70	18	15	35
6	4	4.4	1/4	J664PK6-4-1/4	19	27	11.0	108.0	70	18	15	46
8	4	4.4	1/8	J664PK8-4-1/8	14	28	7.5	103.0	70	18	17	41
8	4	4.4	1/4	J664PK8-4-1/4	19	28	11.0	108.0	70	18	17	53
8	4	4.4	3/8	J664PK8-4-3/8	22	28	11.5	109.0	70	18	17	68
8	6	4.4	1/8	J664PK8-6-1/8	14	30	7.5	103.0	70	18	17	42
8	6	4.4	1/4	J664PK8-6-1/4	19	30	11.0	108.0	70	18	17	54
8	6	4.4	3/8	J664PK8-6-3/8	14	30	11.5	109.0	70	18	17	67
10	6	4.4	1/4	J664PK10-6-1/4	19	33	11.0	117.9	70	18	21	69
10	6	4.4	3/8	J664PK10-6-3/8	22	33	11.5	118.9	70	18	21	84

Prestolok 2 push-in fitting



Multiple tees can be used as a simple system for air distribution. The flow path through the tee is designed to ensure an adequate air supply to the secondary lines. This economic modular concept provides a fully flexible solution for your pneumatic system.

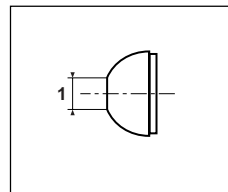
B

C - Protective cap



The design of Prestolok 2 permits the use of a protective cap for the following functions :

- protection : prevents the ingress of dirt into the connection system,
- safety : eliminates the risk of accidental disconnection, as the push button is made inaccessible,
- identification :
- colour coding allows identification of fluid lines,
- tubes sizes are marked on the protective cap.

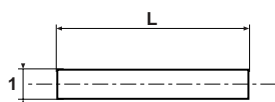


1	Part number	Weight g.
4	C4^a	1
6	C6^a	1
8	C8^a	1
10	C10^a	1
12	C12^a	1
14	C14^a	1

a) : Add the following code, corresponding to the chosen colour :
 W : white; BU : blue; G : green; R : red;
 Y : yellow; BL: black.
 Example : cap red suitable for tube $\varnothing 4$ mm = C4R.
 In case of no colour specification, we will deliver yellow caps (standard colour).
 Our fittings are supplied without cap.
 Cap must be ordered separately.

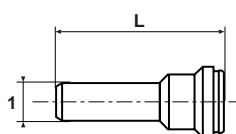
Prestolok 2 push-in fitting

BPK - Double male union



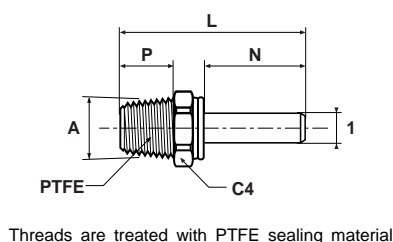
1	Part number	L	Weight g.
4	BPK4	38	1
6	BPK6	41	1
8	BPK8	41	1
10	BPK10	51	2
12	BPK12	54	2
14	BPK14	55	2

FNPK - Plug



1	Part number	L	Weight g.
4	FNPK4	34.5	1
6	FNPK6	35.0	1
8	FNPK8	35.0	2
10	FNPK10	42.0	9
12	FNPK12	41.0	10
14	FNPK14	40.0	10

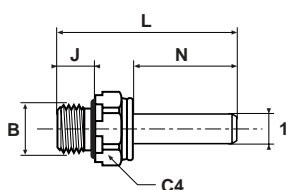
T23FPK - Tube end male adaptor - BSPT



1	A	Part number	C4	L	N	P	Weight g.
4	1/8	T23FPK4-1/8	12	36	19.5	7.5	10
4	1/4	T23FPK4-1/4	14	40	19.5	11.0	17
6	1/8	T23FPK6-1/8	14	40	21.0	7.5	14
6	1/4	T23FPK6-1/4	14	40	21.0	11.0	16
8	1/8	T23FPK8-1/8	17	45	22.0	7.5	24
8	1/4	T23FPK8-1/4	17	46	22.0	11.0	24
8	3/8	T23FPK8-3/8	17	44	22.0	11.5	29
10	1/4	T23FPK10-1/4	19	57	27.0	11.0	41
10	3/8	T23FPK10-3/8	19	55	27.0	11.5	39
10	1/2	T23FPK10-1/2	22	52	27.0	15.0	57

* Thermoplastic stem with brass nickel plated threads.

T24FPK - Tube end male adaptor - BSPP



1	B	Part number	C4	J	L	N	Weight g.
4	1/8	T24FPK4-1/8	14	6	38	19.0	14
4	1/4	T24FPK4-1/4	16	9	38	19.5	26
6	1/8	T24FPK6-1/8	14	6	41	21.0	17
6	1/4	T24FPK6-1/4	16	9	41	20.5	28
8	1/8	T24FPK8-1/8	14	6	45	22.0	26
8	1/4	T24FPK8-1/4	16	9	45	22.0	29
8	3/8	T24FPK8-3/8	19	9	45	22.0	45
10	1/4	T24FPK10-1/4	19	9	57	27.0	46
10	3/8	T24FPK10-3/8	19	9	51	26.0	45
10	1/2	T24FPK10-1/2	27	12	50	27.0	59

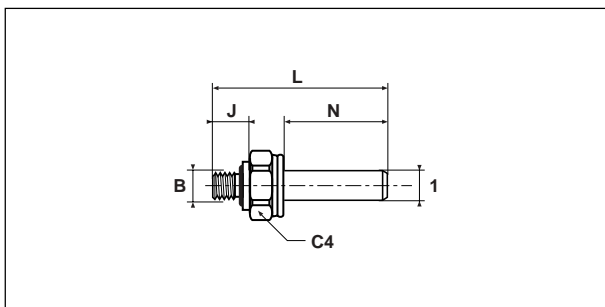
* Thermoplastic stem with brass nickel plated threads.

Our fittings are supplied without cap. See page B18

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Prestolok 2 push-in fitting

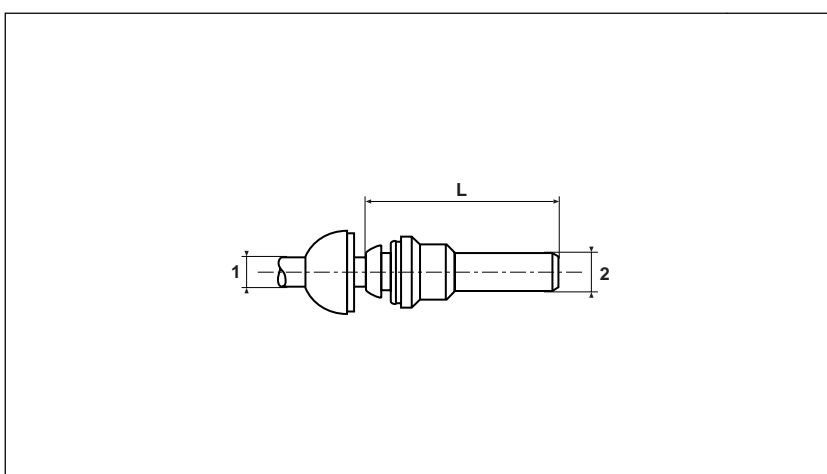
T28FPK - Tube end male adaptor-metric straight thread



1	B	Part number	C4	J	L	N	Weight g.
4	M5X0.8	T28FPK4M5	12	5	43	19.5	12
6	M5X0.8	T28FPK6M5	14	5	43	21.0	17

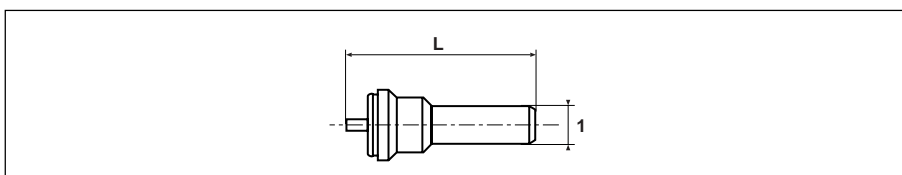
* Thermoplastic stem with brass nickel plated threads.

TR2PK - Tube end reducer



1	2	Part number	L	Weight g.
4	6	TR2PK6-4	38	4
4	8	TR2PK8-4	36	6
6	8	TR2PK8-6	39	4
4	10	TR2PK10-4	41	16
6	10	TR2PK10-6	43	3
8	10	TR2PK10-8	47	4
6	12	TR2PK12-6	36	3
8	12	TR2PK12-8	38	7
10	12	TR2PK12-10	48	4
8	14	TR2PK14-8	39	8
10	14	TR2PK14-10	42	5
12	14	TR2PK14-12	51	14

TS2PK - Pressure indicator

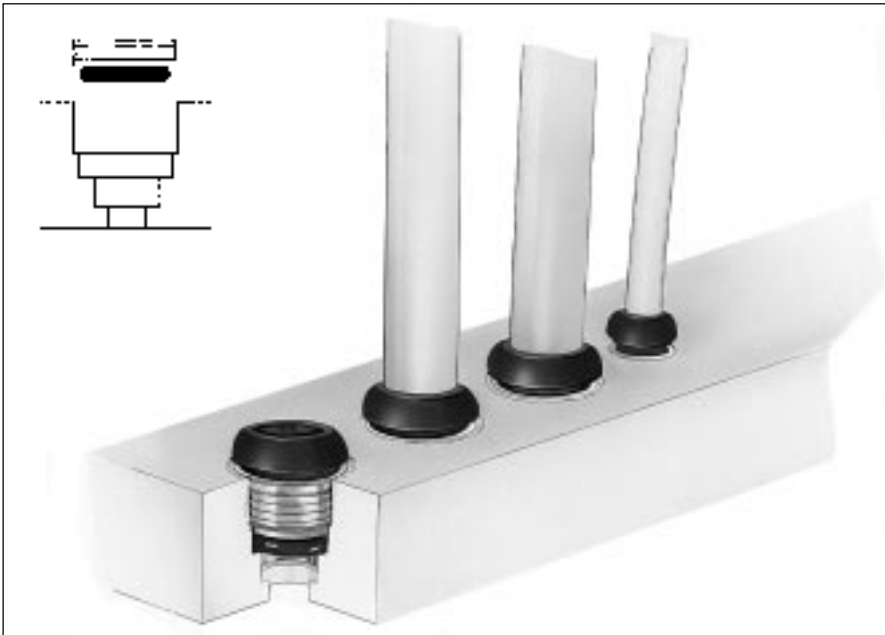


1	Part number	L	Weight g.
4	TS2PK4	36	5
6	TS2PK6	37	6
8	TS2PK8	36	8

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Cartridges

Prestolok cartridge fittings



Prestolok compact drive-in cartridge fittings for plastic tubes, are designed for use in pneumatic components for low-pressure applications.

They eliminate the need for threaded ports in system components, and allow the construction of space-saving assemblies.

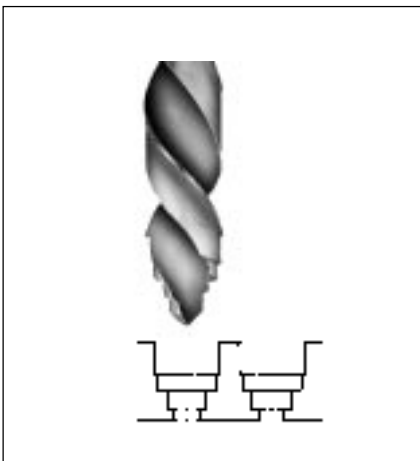
Simple stepped holes are sufficient to receive these cartridges, which are available in tube outer diameters from 4 mm to 12 mm.

Prestolok compact drive-in cartridges can be fitted into pneumatic components made of non-ferrous metals (brass, aluminium, zinc-aluminium alloy), and most industrial plastics.

They are particularly suitable for the mass production of pneumatic components. For more information on potential applications, please consult your Parker sales engineer.



Stepped hole for cartridge reception



Depending upon the component material used, the stepped holes for the reception of the drive-in cartridges are obtained by drilling or injection moulding. Dimensions and tolerances are defined by the configuration of the cartridge.

For this purpose, we supply stepped drilling tools corresponding to each cartridge type.

Technical information available on request.

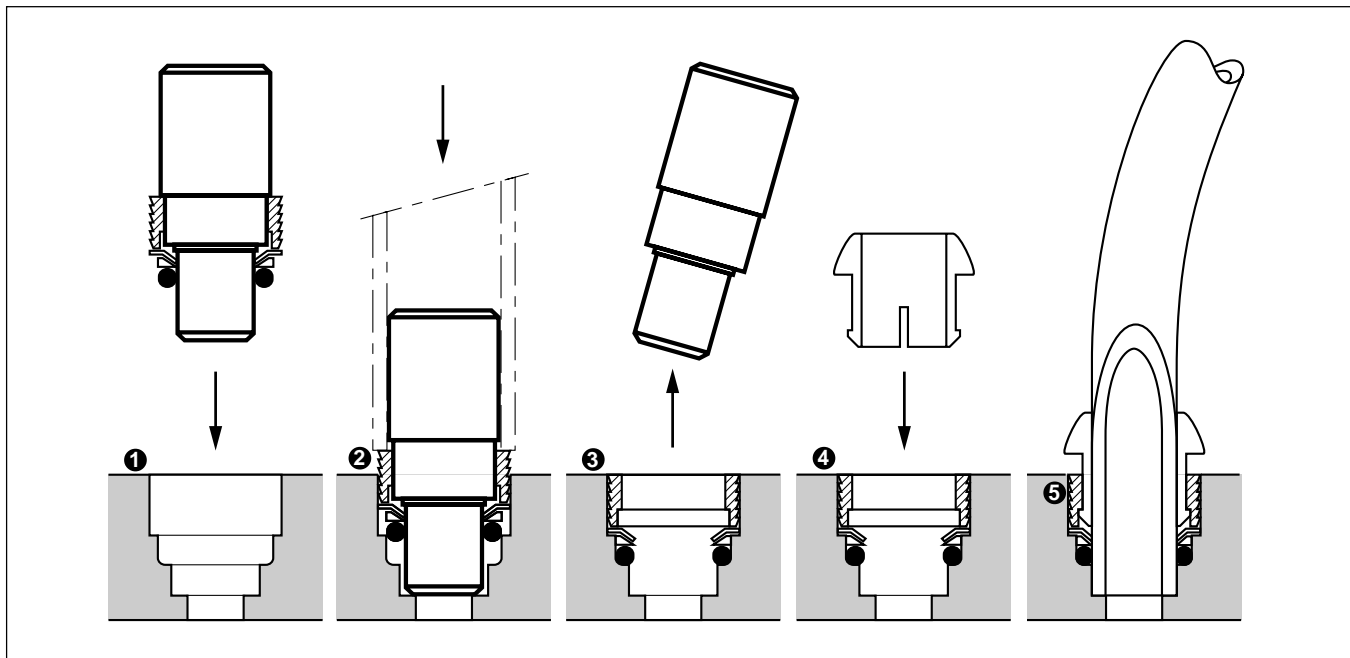
Prestolok 2 push-in fitting

Cartridges

Cartridge assembly

Prestolok compact drive-in cartridges are installed using a simple tool (one tool for each cartridge size).

B



- 1 - Position the mandrel above the port.
- 2 - Insert cartridge with drive-in tool.
- 3 - Remove mandrel from fitted cartridge.
- 4 - Insert push sleeve into cartridge.
- 5 - Final cartridge and tube assembly.

Packaging

Prestolok drive-in cartridges are supplied in packs of 200 or 250 units (depending on the part number) stored in stacked thermoplastic packing trays. This prevents damage during shipment and simplifies stock control and product handling.



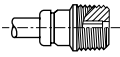
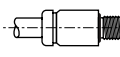
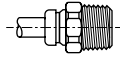
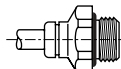
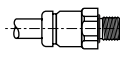
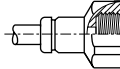
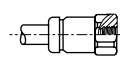
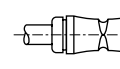
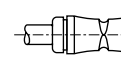
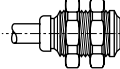
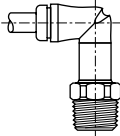
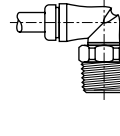
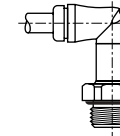
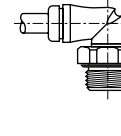
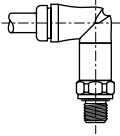
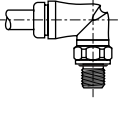
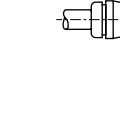
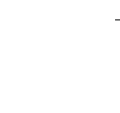
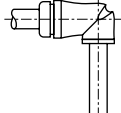
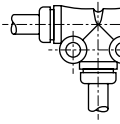
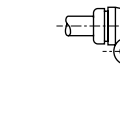
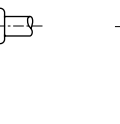
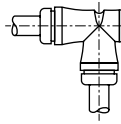
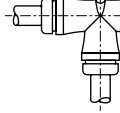
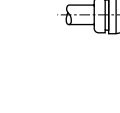

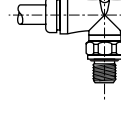
Dimensions shown may be changed at any time without prior notice.

Catalogue 3528-3-UK



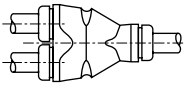
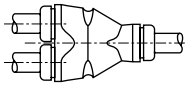
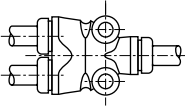
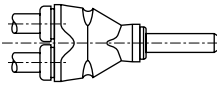
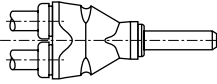
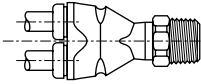
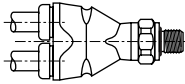
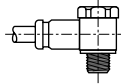

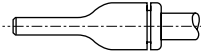
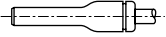
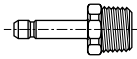
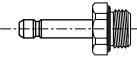
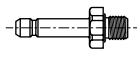
Prestolok micro

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Straight connectors	 <p>male - BSPT internal hexagon F23PMB - p. C 7</p>	 <p>male - metric internal hexagon F28PMB - p. C 7</p>	 <p>male - BSPT F3PMB - p. C 7</p>	 <p>male - BSPP F4PMB - p. C 7</p>	 <p>male - metric F8PMB - p. C 8</p>
	 <p>female - BSPP G4PMB - p. C 8</p>	 <p>female - metric G8PMB - p. C 8</p>	 <p>equal union HPMK - p. C 8</p>	 <p>unequal union HPMK - p. C 8</p>	 <p>equal bulkhead WPMB - p. C 9</p>
90° elbows	 <p>adjustable extended male - BSPT C63LPMK - p. C 9</p>	 <p>adjustable male - BSPT C63PMK - p. C 9</p>	 <p>adjustable extended male - BSPP C64LPMK - p. C 9</p>	 <p>adjustable male - BSPP C64PMK - p. C 10</p>	 <p>adjustable extended male - metric C68LPMK - p. C 10</p>
	 <p>adjustable male metric C68PMK - p. C 10</p>	 <p>equal union EPMK - p. C 10</p>	 <p>equal union with mounting hole EPMFK - p. C 11</p>	 <p>compact plug-in T2ESPMK - p. C 11</p>	
Tees	 <p>equal union JPMK - p. C 11</p>	 <p>equal union with mounting holes JPMFK - p. C 11</p>	 <p>adjustable male run BSPT R63PMK - p. C 12</p>	 <p>adjustable male run BSPP R64PMK - p. C 12</p>	
	 <p>adjustable male run metric R68PMK - p. C 12</p>	 <p>adjustable male branch - BSPT S63PMK - p. C 12</p>	 <p>adjustable male branch - BSPP S64PMK - p. C 13</p>	 <p>adjustable male branch - metric S68PMK - p. C 13</p>	

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<p>Y connectors</p>	<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>equal union YJPMK - p. C 13</p> </div> <div style="text-align: center;">  <p>unequal union YJPMK - p. C 13</p> </div> <div style="text-align: center;">  <p>equal union with mounting holes YJPMFK - p. C 14</p> </div> <div style="text-align: center;">  <p>equal - plug-in YJ2PMK - p. C 14</p> </div> </div>
<p>Banjos</p>	<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>unequal - plug-in YJ2PMK - p. C 14</p> </div> <div style="text-align: center;">  <p>adjustable male BSPT YJ63PMK - p. C 14</p> </div> <div style="text-align: center;">  <p>adjustable male metric YJ68PMK - p. C 15</p> </div> </div>
<p>Adaptors / Accessories</p>	<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>single assembled COR8PMB - p. C 15</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>plug FNPMK - p. C 15</p> </div> <div style="text-align: center;">  <p>tube end expander TE2PMK - p. C 15</p> </div> <div style="text-align: center;">  <p>tube end reducer TR2PMK - p. C 16</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;">  <p>tube end male adaptor BSPT T23FPMB - p. C 16</p> </div> <div style="text-align: center;">  <p>tube end male adaptor BSPP T24FPMB - p. C 16</p> </div> <div style="text-align: center;">  <p>tube end male adaptor metric T28FPMB - p. C 16</p> </div> </div>
<p>Technical tubing</p>	<p>Please consult Thermoplastic single tubes and Pneumo-Tube bundles section (P).</p>

C

Prestolok micro

Prestolok micro : push-in fitting for miniature pneumatic applications

Principle

To provide the fitting solution for miniature pneumatic applications Parker has introduced a new range of instant fittings, Prestolok micro.

This complementary product range has been specifically developed to provide the perfect connection for small diameter tubing used in many industries and applications.

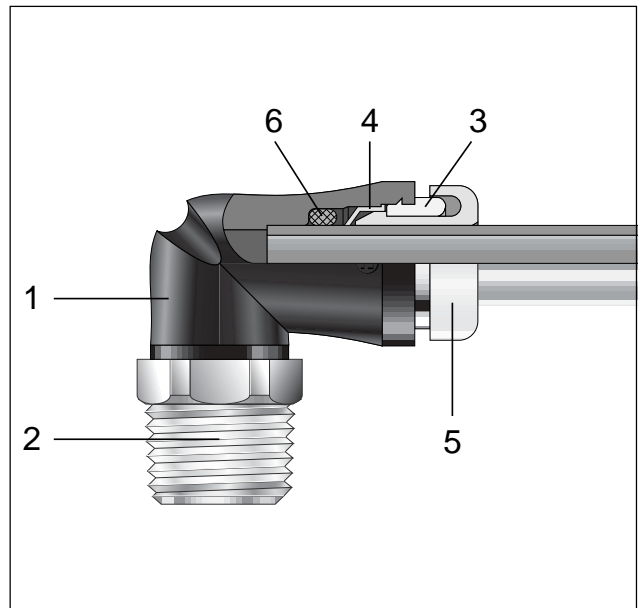
This new fitting benefits from the constant improvements that Parker has brought to the instant fitting market.

Prestolok micro uses "elastic teeth" stainless steel grab ring technology.

This system invented by Parker and developed through previous generations of Prestolok fittings provides perfect tube retention without damaging the tube, thus guaranteeing a leak free connection.

Prestolok micro is designed for use with Parker calibrated polyamide and polyurethane tubing (see Thermoplastic single tube and Pneumo-Tube bundles section - P*).

* For other materials, please consult us.



Technical features

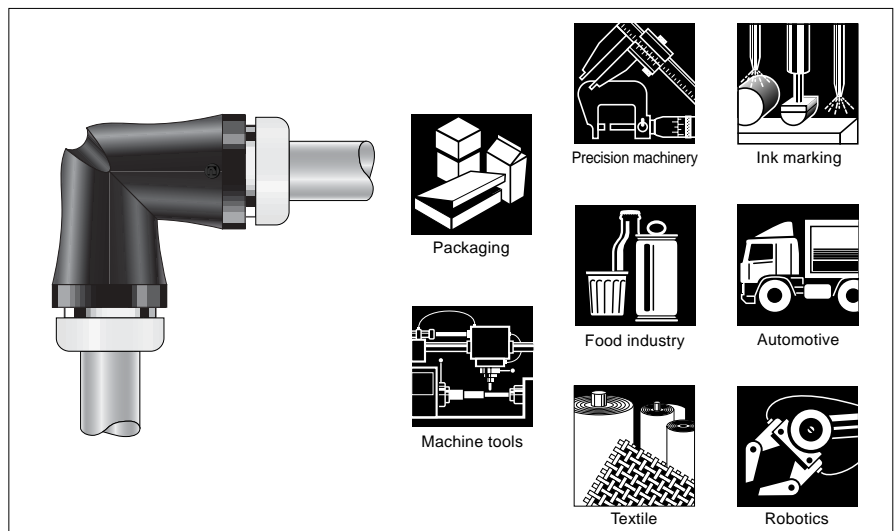
Material						Working pressure	Working temperature
1	2	3	4	5	6		
Body	Threaded parts	Sleeve	Grab ring button	Push	O-Ring	From 0.01 to 16 bar	From - 25° C to + 80° C
Polyamide HR	Nickel plated brass	Brass (Npb for straight connect.)	Stainless steel	Polyacetal	Nitrile		

Applications

Prestolok micro is designed to reduce space, save weight and time during assembly and bring a cost effective solution for all applications. Prestolok micro can be a real economy.

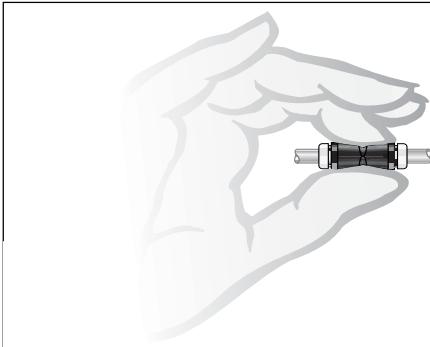
Prestolok micro's unique characteristics make it the perfect connector for miniature pneumatic systems in a wide range of applications.

Developed for use with pneumatic systems in a wide variety of industries, Prestolok micro is designed to convey many other fluids (please consult us) thus covering a broad range of applications.



Advantages

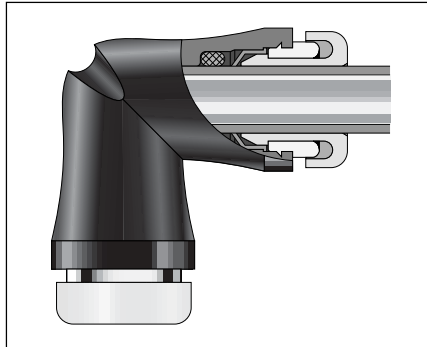
- Wide product range suitable for many applications. ■ Nickel plated brass adaptors.
- Full flow capacity.



Perfect miniaturisation.

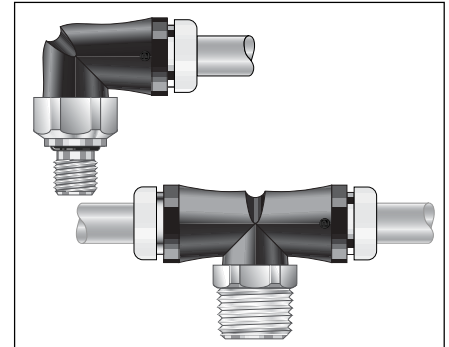
The Prestolok micro concept offers :

- an ergonomic shape with small dimensions but allowing for excellent handling and manipulation of the fitting,
- compact dimensions allow efficient utilisation in applications where space is a decisive factor,
- reduced size and weight which, are very important when used with unsupported pipe runs,
- excellent flow characteristics give minimal pressure drop.



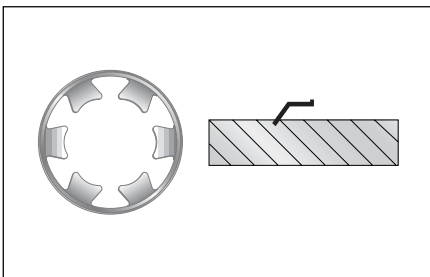
A multi-functional push-button.

- the new push button design encapsulates the fitting body to prevent contamination,
- the profile of the push button enables simple and efficient disconnection of the tube,
- the marking of the tube diameter and the optional choice of colour on the push button enable simple identification of circuits,
- it ensures a uniform distribution of the pushing force for easy disconnection.
- the one piece design makes the push button unlosable.



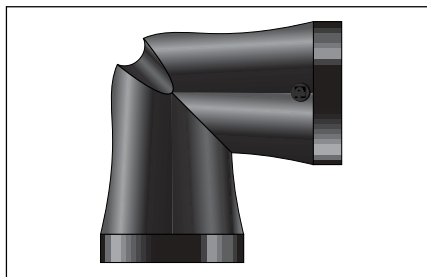
Ready-to-use fitting

- the Prestolok micro range of fittings is manufactured ready to use, saving time and reducing assembly costs :
- taper threads are treated with a special PTFE. This factory applied treatment enables the fitting to be connected and disconnected up to five times without additional treatment,
- fittings with parallel threads are supplied with a pre-assembled fully retained O-ring ensuring a perfect seal.



Positive retention with a flexible grab ring.

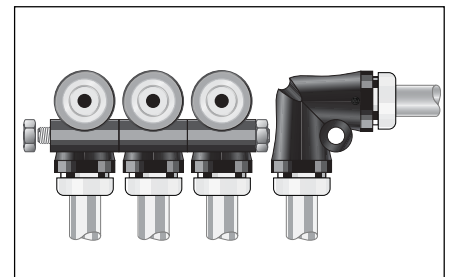
- this system, invented, developed and perfected by Parker, guarantees excellent tube retention,
- the special radial shape of the teeth of the grab ring do not damage the tube or affect the sealing,
- the elasticity of the grab ring absorbs all vibration and impulsing,
- the design of the grab ring allows the tube to rotate freely even under pressure.



High resistance polyamide body.

The use of high resistance polyamide offers :

- excellent mechanical characteristics (robustness),
- high corrosion resistance,
- UV resistant polymers guarantee a long service life.



Mounting holes on shaped fittings.

On request, union connectors can be supplied equipped with mounting holes. This option permits :

- mounting in banks for compact installations and simplified pipe-work,
- facility for mounting on frames or panels,
- greater flexibility and additional space saving.

Prestolok micro

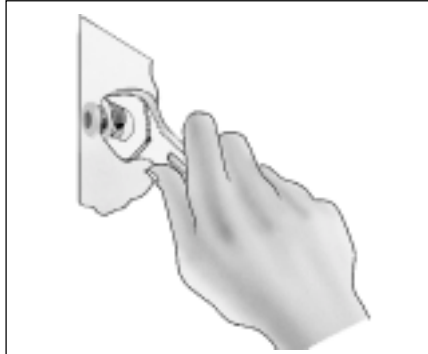
Instructions for use

Assembly :

Prestolok micro must only be used with calibrated polyamide (in accordance with DIN 73378, BS 5409 Part 2, NF E49-100, CETOP RP45B) and polyurethane (in accordance with NF E49-101) tubing conforming to standards shown in Thermoplastic single tubes and Pneumo-Tube bundles section (P). For other tubing materials please consult us.

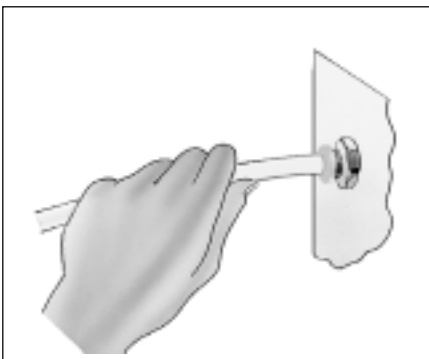


Cut the tube square



For threaded fittings, tighten to the recommended assembly torque.

Assembly torque				
Thread	M3	M5	G1/8"	G1/4"
max. Torque m. da N	0.1	0.2	1.0	2.0

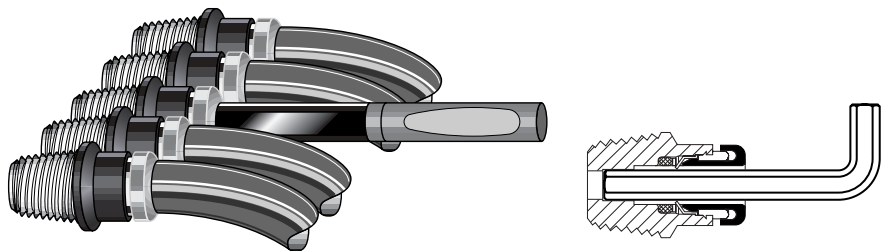


Insert the tube into the fitting until it bottoms.

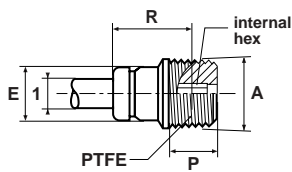
Disassembly :

Simply press on the push button and withdraw the tube.

F23PMB and F28PMB straight male connectors have an internal hexagon for use with an Allen key to allow the fitting to be mounted in any position. This also permits close porting not possible when a spanner is used.



F23PMB - Male connector - BSPT

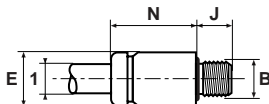


Threads are treated with PTFE sealing material.

1	A	Part number	E	P	R	Int. H	Weight g.
3	1/8	F23PMB3-1/8	6.5	6.5	10.2	2.0	4
4	1/8	F23PMB4-1/8	7.9	6.5	11.4	2.5	5
6	1/8	F23PMB6-1/8	10.5	6.5	14.1	3.0	7

This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an Allen key.

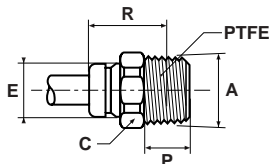
F28PMB - Male connector - metric straight thread



1	B	Part number	E	J	N	Int. H	Weight g.
3	M3x0.5	F28PMB3M3	7.0	3.25	13.65	1.5	5
3	M5x0.8	F28PMB3M5	6.5	3.50	9.80	2.0	5
4	M3x0.5	F28PMB4M3	7.9	3.25	14.15	1.5	6
4	M5x0.8	F28PMB4M5	7.9	3.50	11.70	2.0	6
6	M5x0.8	F28PMB6M5	10.5	3.50	14.80	2.0	7

This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an Allen key.

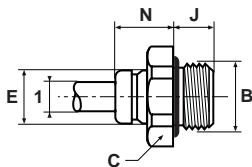
F3PMB - Male connector - BSPT



Threads are treated with PTFE sealing material.

1	A	Part number	C	P	R	Weight g.
4	1/8	F3PMB4-1/8	10	6.5	11.4	7
4	1/4	F3PMB4-1/4	14	10.0	13.4	11
6	1/8	F3PMB6-1/8	11	6.5	14.8	10
6	1/4	F3PMB6-1/4	14	10.0	13.8	16

F4PMB - Male connector - BSPP

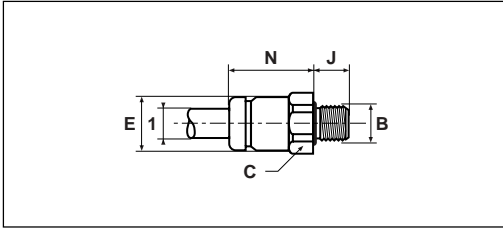


1	B	Part number	C	E	J	N	Weight g.
4	1/8	F4PMB4-1/8	13	7.9	5.0	7.9	8
4	1/4	F4PMB4-1/4	16	7.9	5.5	7.9	12
6	1/8	F4PMB6-1/8	13	10.5	5.0	12.3	10
6	1/4	F4PMB6-1/4	16	10.5	5.5	8.8	14

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

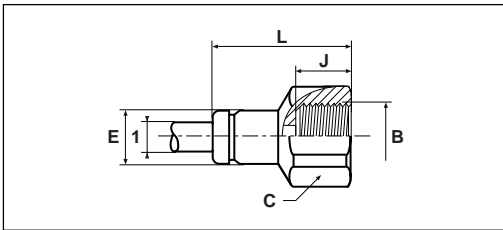
Prestolok micro

F8PMB - Male - metric straight thread



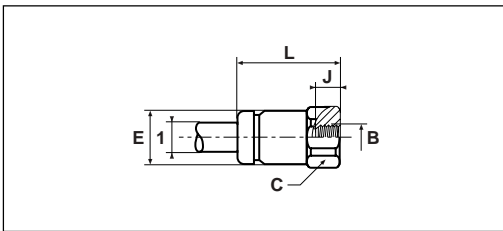
1	B	Part number	C	E	J	N	Weight g.
3	M3x0.5	F8PMB3M3	7	6.5	3.25	11.45	5
3	M5x0.8	F8PMB3M5	7	6.5	3.50	11.20	5
4	M3x0.5	F8PMB4M3	8	7.9	3.25	11.95	5
4	M5x0.8	F8PMB4M5	8	7.9	3.50	11.80	7
6	M5x0.8	F8PMB6M5	11	10.5	3.50	14.80	7

G4PMB - Female - BSPP



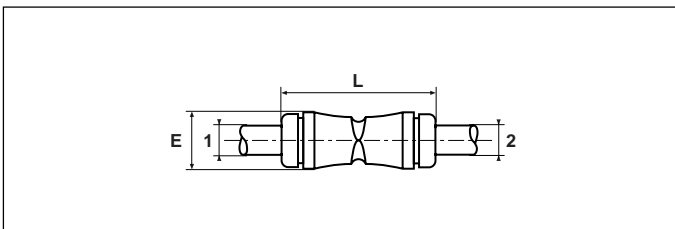
1	B	Part number	C	E	J	L	Weight g.
4	1/8	G4PMB4-1/8	13	7.9	8	19.9	9
4	1/4	G4PMB4-1/4	16	7.9	10	21.9	15
6	1/8	G4PMB6-1/8	13	10.5	8	22.8	10
6	1/4	G4PMB6-1/4	16	10.5	10	24.8	15

G8PMB - Female - metric



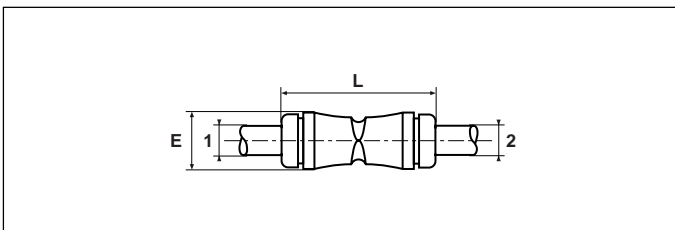
1	B	Part number	C	E	J	L	Weight g.
3	M3x0.5	G8PMB3M3	7	6.5	4.25	14.05	5
3	M5x0.8	G8PMB3M5	7	6.5	6.60	17.90	5
4	M3x0.5	G8PMB4M3	8	7.9	4.25	14.55	5
4	M5x0.8	G8PMB4M5	8	7.9	6.60	18.40	5

HPMK - Equal union



1	2	Part number	E	L	Weight g.
3	3	HPMK3	7.3	19.8	2
4	4	HPMK4	8.5	21.8	3
6	6	HPMK6	11.5	27.8	3

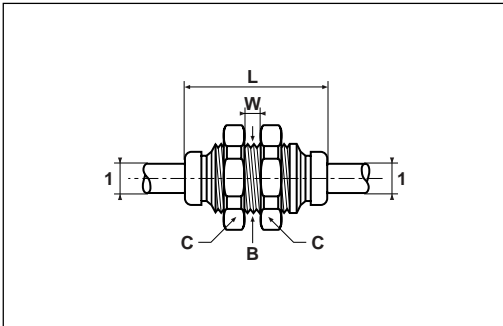
HPMK - Unequal union



1	2	Part number	E	L	Weight g.
4	3	HPMK4-3	8.5	21.2	2
6	4	HPMK6-4	11.5	27.8	3

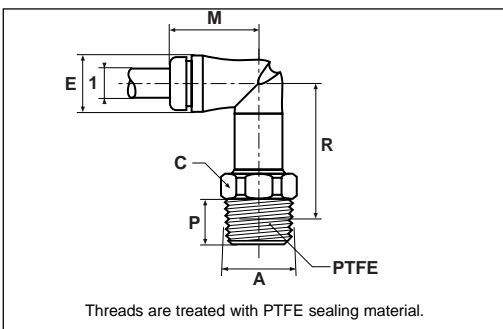
For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

WPMB - Bulkhead equal union



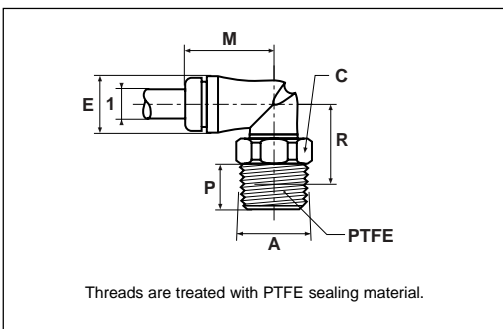
1	B	Part number	C	L	W maxi.	Weight g.
3	M8x1	WPMB3	12	20.15	5	10
4	M10x1	WPMB4	14	21.15	5	11
6	M12x1	WPMB6	16	26.00	8	13

C63LPMK - Adjustable extended male elbow - BSPT



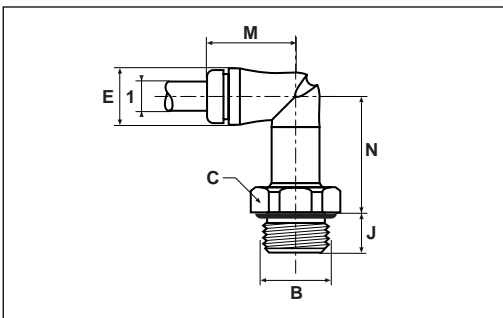
1	A	Part number	C	E	M	P	R	Weight g.
3	1/8	C63LPMK3-1/8	10	7.3	11.25	6.5	19.4	12
4	1/8	C63LPMK4-1/8	10	8.5	12.65	6.5	21.2	14
4	1/4	C63LPMK4-1/4	14	8.5	12.65	10.0	23.2	27
6	1/8	C63LPMK6-1/8	11	11.5	16.70	6.5	25.7	19
6	1/4	C63LPMK6-1/4	14	11.5	16.70	10.0	27.7	35

C63PMK - Adjustable male elbow - BSPT



1	A	Part number	C	E	M	P	R	Weight g.
3	1/8	C63PMK3-1/8	10	7.3	11.25	6.5	11.6	6
4	1/8	C63PMK4-1/8	10	8.5	12.65	6.5	12.2	6
4	1/4	C63PMK4-1/4	14	8.5	12.65	10.0	14.2	6
6	1/8	C63PMK6-1/8	11	11.5	16.70	6.5	13.7	7
6	1/4	C63PMK6-1/4	14	11.5	16.70	10.0	15.7	7

C64LPMK - Adjustable extended male elbow - BSPP



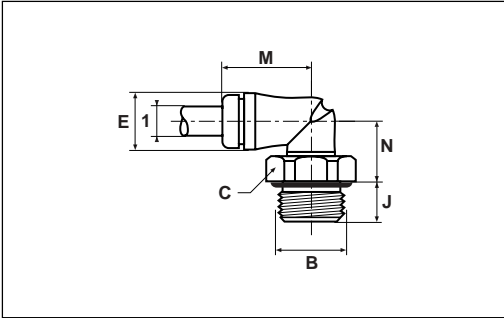
1	B	Part number	C	E	J	M	N	Weight g.
4	1/8	C64LPMK4-1/8	13	8.5	5.0	12.65	17.2	10
4	1/4	C64LPMK4-1/4	16	8.5	5.5	12.65	17.2	13
6	1/8	C64LPMK6-1/8	13	11.5	5.0	16.70	23.7	12
6	1/4	C64LPMK6-1/4	16	11.5	5.5	16.70	21.7	12

For product availability please consult our price list 0093-UK.

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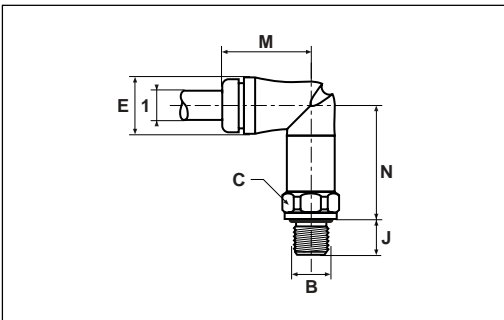
Prestolok micro

C64PMK - Adjustable male elbow - BSPP



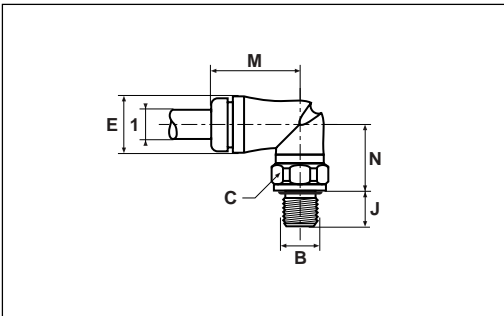
1	B	Part number	C	E	J	M	N	Weight g.
4	1/8	C64PMK4-1/8	13	8.5	5.0	12.65	5	6
4	1/4	C64PMK4-1/4	16	8.5	5.5	12.65	5	6
6	1/8	C64PMK6-1/8	13	11.5	5.0	16.70	9	7
6	1/4	C64PMK6-1/4	16	11.5	5.5	16.70	9	7

C68LPMK - Adjustable extended male elbow - metric straight



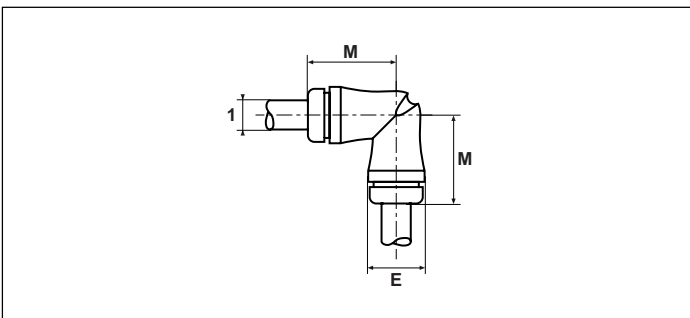
1	B	Part number	C	E	J	M	N	Weight g.
3	M3x0.5	C68LPMK3M3	6	7.3	3.25	11.25	17.0	7
3	M5x0.8	C68LPMK3M5	8	7.3	3.50	11.25	17.0	8
4	M3x0.5	C68LPMK4M3	8	8.5	3.25	12.65	18.8	8
4	M5x0.8	C68LPMK4M5	8	8.5	3.50	12.65	18.8	8
6	M5x0.8	C68LPMK6M5	10	11.5	3.50	16.70	23.7	9

C68PMK - Adjustable male elbow - metric straight thread



1	B	Part number	C	E	J	M	N	Weight g.
3	M3x0.5	C68PMK3M3	7	7.3	3.25	11.25	9.2	6
3	M5x0.8	C68PMK3M5	7	7.3	3.50	11.25	9.2	6
4	M3x0.5	C68PMK4M3	8	8.5	3.25	12.65	9.8	6
4	M5x0.8	C68PMK4M5	8	8.5	3.50	12.65	9.8	6
6	M5x0.8	C68PMK6M5	11	11.5	3.50	16.70	11.7	7

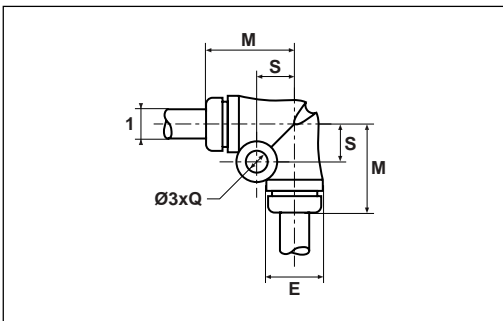
EPMK - Equal elbow



1	Part number	E	M	Weight g.
3	EPMK3	7.3	11.25	2
4	EPMK4	8.5	12.65	3
6	EPMK6	11.5	16.70	3

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

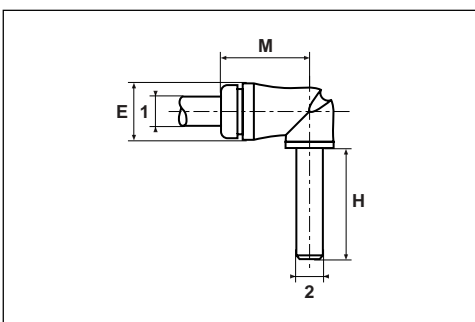
EPMFK - Equal elbow with mounting hole



1	Part number	E	M	Ø 3	Q	S	Weight g.
3	EPMFK3	7.3	11.25	3.2	7.3	5.0	2
4	EPMFK4	8.5	12.65	3.2	8.5	5.5	3
6	EPMFK6	11.5	16.70	3.2	11.5	7.0	4

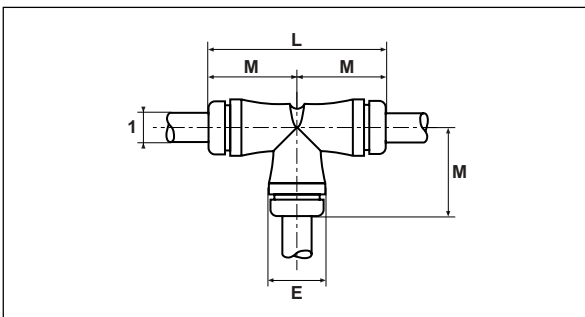
Not available from stock, please consult us.

T2ESPMK - Compact plug-in elbow



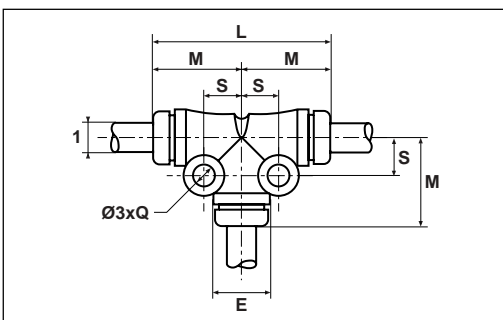
1	2	Part number	E	H	M	Weight g.
3	3	T2ESPMK3	7.3	16	11.25	2
3	4	T2ESPMK3-4	7.3	16	11.25	2
4	4	T2ESPMK4	8.5	16	12.65	2
4	6	T2ESPMK4-6	8.5	17	12.65	2
6	6	T2ESPMK6	11.5	17	16.70	3

JPMK - Equal tee



1	Part number	E	L	M	Weight g.
3	JPMK3	7.3	22.5	11.25	3
4	JPMK4	8.5	25.3	12.65	3
6	JPMK6	11.5	33.4	16.70	4

JPMFK - Equal tee with mounting holes



1	Part number	E	L	M	Ø 3	Q	S	Weight g.
3	JPMFK3	7.3	22.5	11.25	3.2	7.3	5.0	3
4	JPMFK4	8.5	25.3	12.65	3.2	8.5	5.5	4
6	JPMFK6	11.5	33.4	16.70	3.2	11.5	7.0	5

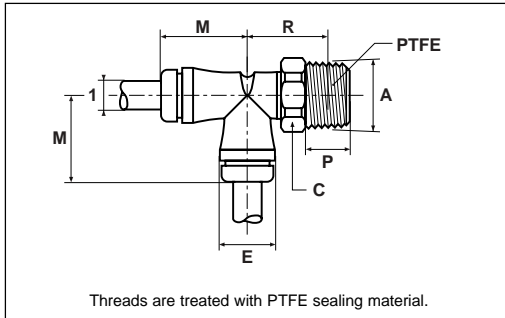
Not available from stock, please consult us.

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

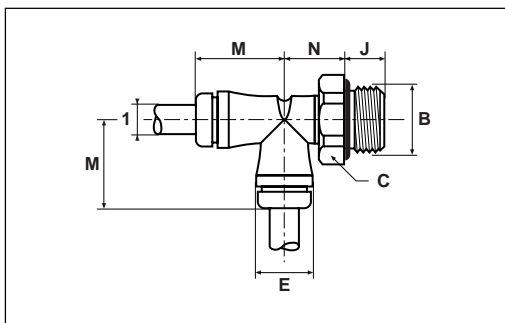
Prestolok micro

R63PMK - Adjustable male run tee - BSPT



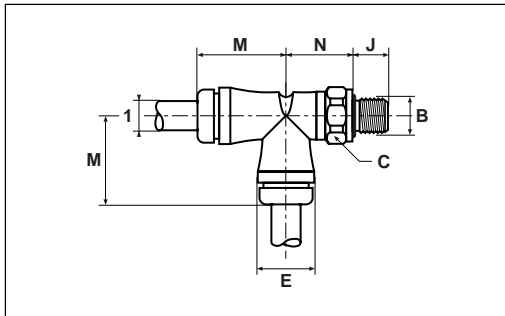
1	A	Part number	C	E	M	P	R	Weight g.
3	1/8	R63PMK3-1/8	10	7.3	11.25	6.5	11.6	7
4	1/8	R63PMK4-1/8	10	8.5	12.65	6.5	12.2	7
4	1/4	R63PMK4-1/4	14	8.5	12.65	10.0	14.2	7
6	1/8	R63PMK6-1/8	11	11.5	16.70	6.5	13.7	8
6	1/4	R63PMK6-1/4	14	11.5	16.70	10.0	15.7	8

R64PMK - Adjustable male run tee - BSPP



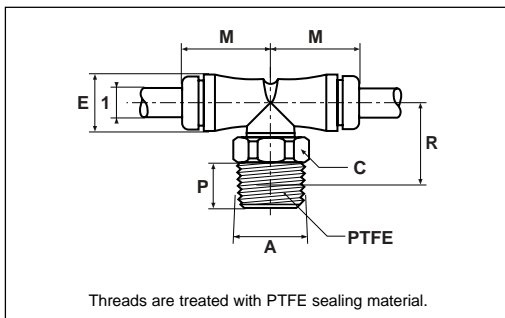
1	B	Part number	C	E	J	M	N	Weight g.
4	1/8	R64PMK4-1/8	13	8.5	5.0	12.65	8.2	7
4	1/4	R64PMK4-1/4	16	8.5	5.5	12.65	8.2	7
6	1/8	R64PMK6-1/8	13	11.5	5.0	16.70	11.7	8
6	1/4	R64PMK6-1/4	16	11.5	5.5	16.70	9.7	9

R68PMK - Adjustable male run tee - metric straight thread



1	B	Part number	C	E	J	M	N	Weight g.
3	M3x0.5	R68PMK3M3	7	7.3	3.25	11.25	9.2	6
3	M5x0.8	R68PMK3M5	7	7.3	3.50	11.25	9.2	6
4	M3x0.5	R68PMK4M3	8	8.5	3.25	12.65	9.8	7
4	M5x0.8	R68PMK4M5	8	8.5	3.50	12.65	9.8	7
6	M5x0.8	R68PMK6M5	11	11.5	3.50	16.70	11.7	8

S63PMK - Adjustable male branch tee - BSPT

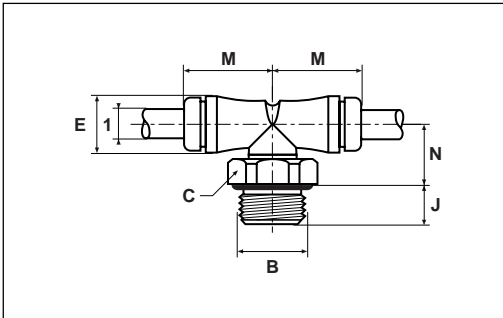


1	A	Part number	C	E	M	P	R	Weight g.
3	1/8	S63PMK3-1/8	10	7.3	11.25	6.5	11.6	7
4	1/8	S63PMK4-1/8	10	8.5	12.65	6.5	12.2	7
4	1/4	S63PMK4-1/4	14	8.5	12.65	10.0	14.2	7
6	1/8	S63PMK6-1/8	11	11.5	16.70	6.5	13.7	8
6	1/4	S63PMK6-1/4	14	11.5	16.70	10.0	15.7	8

For product availability please consult our price list 0093-UK.

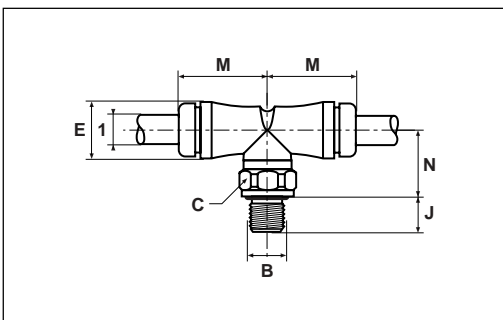
Dimensions shown may be changed at any time without prior notice.

S64PMK - Adjustable male branch tee - BSPP



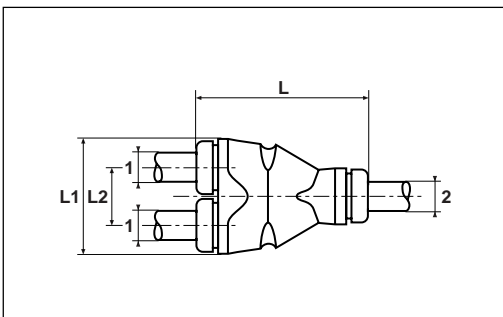
1	B	Part number	C	E	J	M	N	Weight g.
4	1/8	S64PMK4-1/8	13	8.5	5.0	12.65	8.2	7
4	1/4	S64PMK4-1/4	16	8.5	5.5	12.65	8.2	7
6	1/8	S64PMK6-1/8	13	11.5	5.0	16.70	11.7	8
6	1/4	S64PMK6-1/4	16	11.5	5.5	16.70	9.7	9

S68PMK - Adjustable male branch tee - metric straight thread



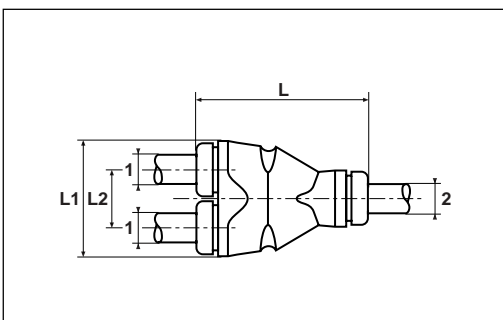
1	B	Part number	C	E	J	M	N	Weight g.
3	M3x0.5	S68PMK3M3	7	7.3	3.25	11.25	9.2	6
3	M5x0.8	S68PMK3M5	7	7.3	3.50	11.25	9.2	6
4	M3x0.5	S68PMK4M3	8	8.5	3.25	12.65	9.8	7
4	M5x0.8	S68PMK4M5	8	8.5	3.50	12.65	9.8	7
6	M5x0.8	S68PMK6M5	11	11.5	3.50	16.70	11.7	8

YJPMK - Equal Y union



1	2	Part number	L	L1	L2	Weight g.
3	3	YJPMK3	22.0	13.9	6.7	3
4	4	YJPMK4	24.8	16.4	8.1	4
6	6	YJPMK6	31.8	22.2	10.8	5

YJPMK - Unequal Y union

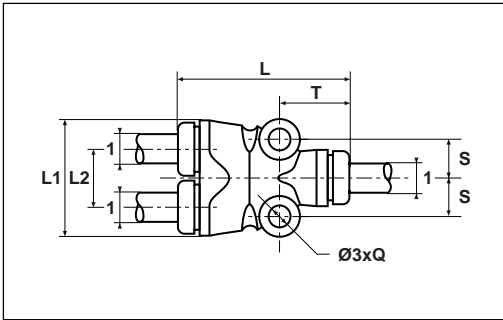


1	2	Part number	L	L1	L2	Weight g.
3	4	YJPMK4-3	24.2	16.4	8.1	3
3	6	YJPMK6-3	31.2	22.2	10.8	4
4	6	YJPMK6-4	31.8	22.2	10.8	4

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Prestolok micro

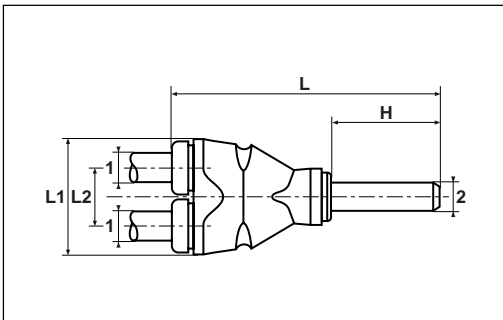
YJPMFK - Y union with mounting holes



1	Part number	L	L1	L2	Ø 3	Q	S	T	Weight g.
3	YJPMFK3	22.0	13.9	6.7	3.2	7.3	5.0	8.7	3
4	YJPMFK4	24.8	16.4	8.1	3.2	8.5	5.5	9.7	4
6	YJPMFK6	31.8	22.2	10.8	3.2	11.5	7.0	12.9	5

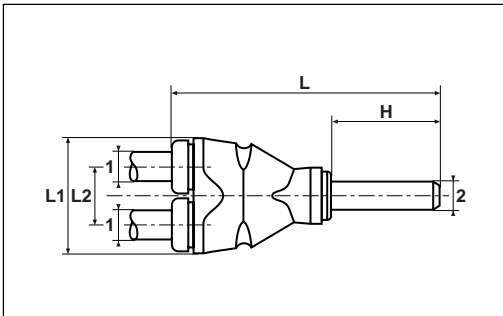
Not available from stock, please consult us.

YJ2PMK - Equal plug-in Y union



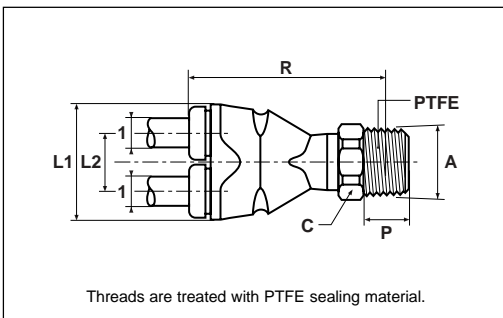
1	2	Part number	H	L	L1	L2	Weight g.
3	3	YJ2PMK3	16	35.7	13.9	6.7	3
4	4	YJ2PMK4	16	37.9	16.4	8.1	3
6	6	YJ2PMK6	17	45.9	22.2	10.8	3

YJ2PMK - Unequal plug-in Y union



1	2	Part number	H	L	L1	L2	Weight g.
4	3	YJ2PMK4-3	16	37.9	16.4	8.1	3
6	4	YJ2PMK6-4	16	44.9	22.2	10.8	4

YJ63PMK - Adjustable male Y connector - BSPT

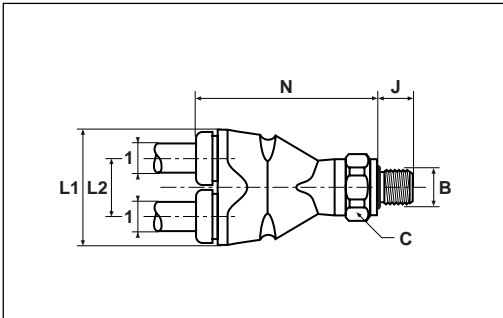


1	A	Part number	C	L1	L2	P	R	Weight g.
3	1/8	YJ63PMK3-1/8	10	14.0	6.7	6.5	27.2	7
4	1/8	YJ63PMK4-1/8	10	16.6	8.1	6.5	29.4	7
6	1/8	YJ63PMK6-1/8	11	22.3	10.8	6.5	36.4	9

For product availability please consult our price list 0093-UK.

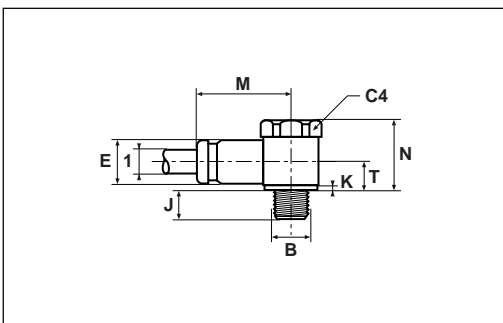
Dimensions shown may be changed at any time without prior notice.

YJ68PMK - Adjustable male Y connector - metric straight thread



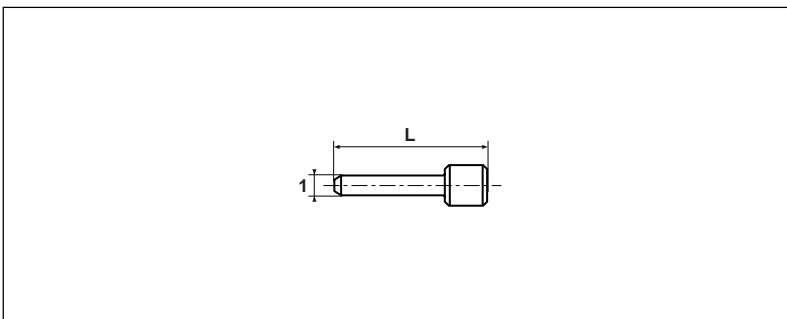
1	B	Part number	C	J	L1	L2	N	Weight g.
3	M3x0.5	YJ68PMK3M3	8	3.25	14.0	6.7	24.2	7
4	M5x0.8	YJ68PMK4M5	9	3.50	16.6	8.1	26.2	7
6	M5x0.8	YJ68PMK6M5	12	3.50	22.3	10.8	34.1	8

COR8PMB - Banjo - metric straight thread



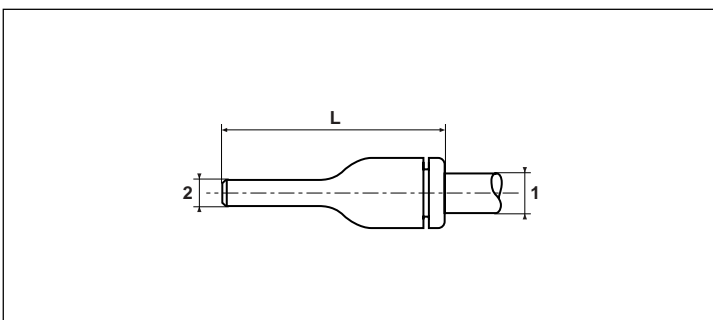
1	B	Part number	C4	E	J	K	M	N	T	Weight g.
3	M3x0.5	COR8PMB3M3	6	6.5	3.25	0.5	12.5	10	4	5
3	M5x0.8	COR8PMB3M5	8	6.5	4.50	0.5	13.5	10	4	5

FNPMK - Plug



1	Part number	L	Weight g.
3	FNPMK3	22	1

TE2PMK - Tube end expander

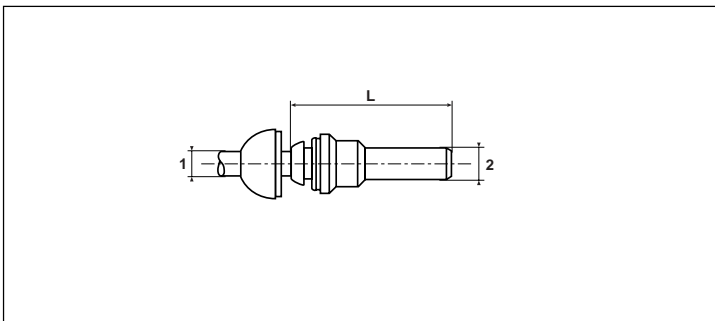


1	2	Part number	L	Weight g.
6	4	TE2PMK4-6	31.7	2

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

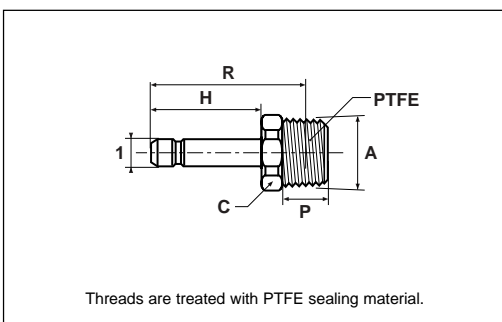
Prestolok micro

TR2PMK - Tube end reducer



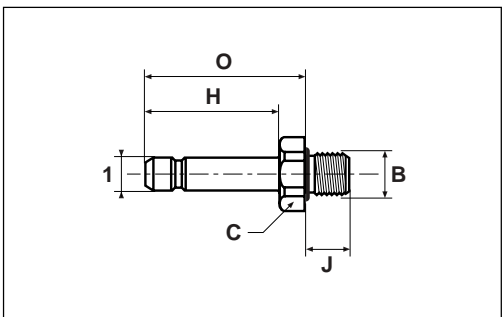
1	2	Part number	L	Weight g.
3	4	TR2PMK4-3	26.4	2

T23FPMB - Tube end male adaptor - BSPT



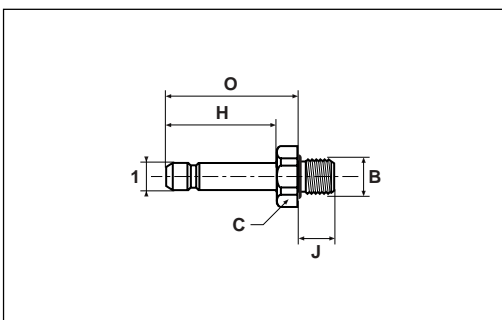
1	A	Part number	C	H	P	R	Weight g.
4	1/8	T23FPMB4-1/8	10	16	6.5	22.5	9
4	1/4	T23FPMB4-1/4	14	16	10.0	25.0	13
6	1/8	T23FPMB6-1/8	10	17	6.5	23.5	9
6	1/4	T23FPMB6-1/4	14	17	10.0	26.0	15

T24FPMB - Tube end male adaptor - BSPP



1	B	Part number	C	H	J	O	Weight g.
4	1/8	T24FPMB4-1/8	13	16	5.0	19.5	9
4	1/4	T24FPMB4-1/4	16	16	5.5	19.5	13
6	1/8	T24FPMB6-1/8	13	17	5.0	20.5	9
6	1/4	T24FPMB6-1/4	16	17	5.5	20.5	13

T28FPMB - Tube end male adaptor - metric



1	B	Part number	C	H	J	O	Weight g.
3	M3x0.5	T28FPMB3M3	6	16	3.25	19	6
4	M5x0.8	T28FPMB4M5	7	16	3.50	19	7

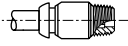
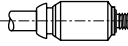
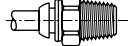
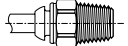
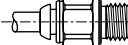
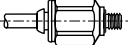
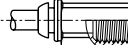
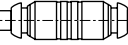
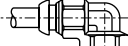
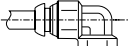
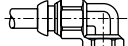

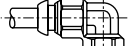
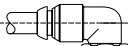
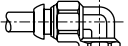
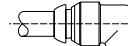

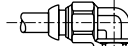
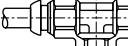
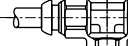
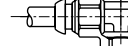



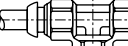
For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Catalogue 3528-1-UK



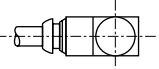
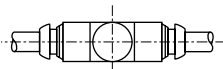
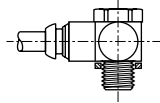
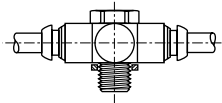
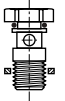
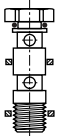
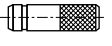

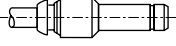
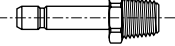
Prestolok push-in fitting

Index

Straight connectors					
	male - BSPT F23PB - p. D 6	male - metric F28PB - p. D 6	male - BSPT F3PB - p. D 6	male - NPTF FPB - p. D 6	
Bulkhead unions					
	female - BSPP WG4PB - p. D 8	mixed WBMPB - p. D 8	equal WPB - p. D 9	equal union HPB - p. D 8	
90° elbows					
	compact - BSPT C3PB - p. D 9	adjustable male NPTF C6PB - p. D 9	adjustable extended male - BSPT C63LPB - p. D 9	adjustable male BSPT C63PB - p. D 10	adjustable male BSPP C64PB - p. D 10
Tees					
	compact adjustable male - BSPP C64SPB - p. D 10	adjustable male - metric C68PB - p. D 11	compact adjustable male - metric C68SPB - p. D 11	equal union EPB - p. D 11	adjustable bulkhead union WE6PB - p. D 11
Tees					
	equal union JPB - p. D 12	adjustable male run - BSPT R63PB - p. D 12	adjustable male run - BSPP R64PB - p. D 12	adjustable male run - metric R68PB - p. D 13	adjustable male branch - BSPT S63PB - p. D 13
Tees					
	adjustable male branch - BSPP S64PB - p. D 13	adjustable male branch - metric S68PB - p. D 13			

Prestolok push-in fitting

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Banjos	 <p>single - body only CORPB - p. D 14</p>	 <p>double - body only CORPBD - p. D 14</p>	 <p>single - assembled COR8PB/COR4PB - p. D 14</p>	 <p>double - assembled COR8PBD/COR4PBD - p. D 15</p>
	 <p>single bolt with seals SC8U/SC4U - p. D 15</p>	 <p>stacking bolt with seals SC8UD/SC4UD - p. D 15</p>		
Adaptors/ Accessories	 <p>plug FNPB - p. D 16</p>	 <p>tube end expander TEPB - p. D 16</p>	 <p>tube end reducer TRPB - p. D 16</p>	 <p>tube end male adaptor BSPT T23HFPB - p. D 16</p>
Complementary parts with thermoplastic body	Please consult Prestolok 2 section (B)			
Technical tubing	Please consult Thermoplastic single tubes and Pneumo-Tube bundles section (P)			

D

Prestolok push-in fitting

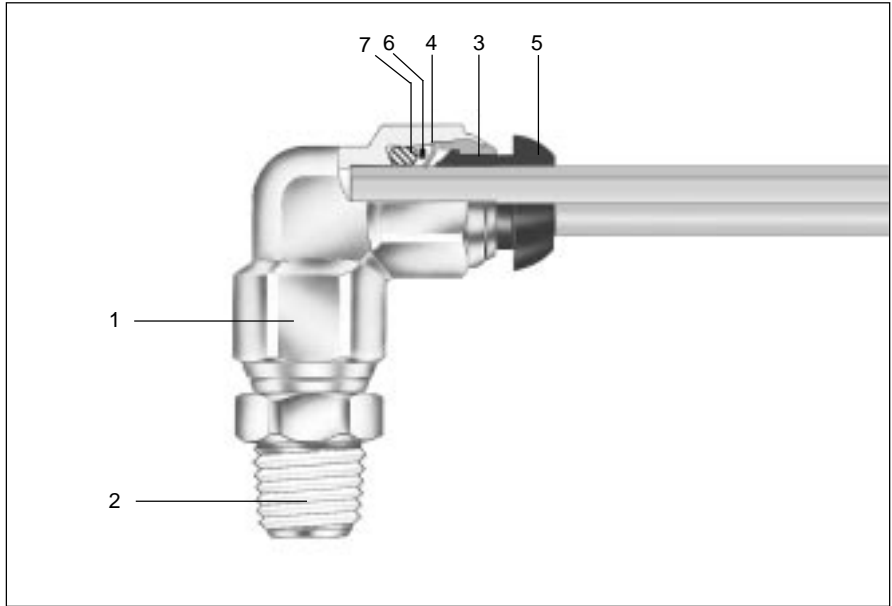
Prestolok : push-in fitting for fluid and arduous pneumatic applications

Principle

For more than 20 years, Parker Hannifin has designed and manufactured push-in fittings recognised worldwide for their quality and reliability. During this period Prestolok has benefited from continuous improvement and is now one of the most advanced push-in fittings on the market.

Prestolok uses "elastic teeth" grab ring technology invented and perfected by Parker, who guarantee its excellent tube retention qualities.

Prestolok can be used not only with most types of plastic tubing available on the market (see Thermoplastic single tube and Pneumo-Tube bundles section P), but also with some metal tubing*, making it suitable for a wide range of applications.



* See advantages section

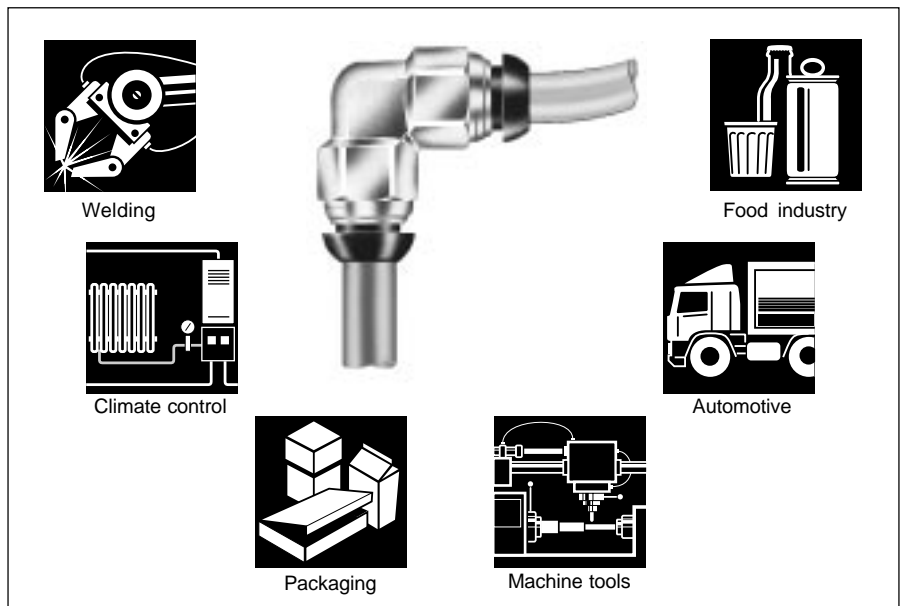
Technical features

Material							Working pressure	Working temperature
1	2	3	4	5	6	7		
Body	Threaded parts	Sleeve	Grab ring	Push button	Back-up washer	O-ring	From 0.01 to 25 bar	From - 25° C to + 100° C
Nickel plated brass	Nickel plated brass	Brass	Stainless steel	Polyacetal	Brass	Nitrile		

Applications

Prestolok has been designed to handle many industrial fluids compatible with its technical features.

Thanks to its mechanical properties, Prestolok is a push-in fitting particularly suited to the most severe environments, such as welding, high temperatures, vibration.



Advantages

Compact ready-to-use fitting

Wide product range covering all applications

Full flow capability



Brass nickel plated body

Brass is a raw material providing :

- robustness,
- excellent shock resistance,
- good temperature capability,
- excellent spark resistance.

Nickel plating gives improved corrosion resistance and a bright appearance which does not deteriorate.

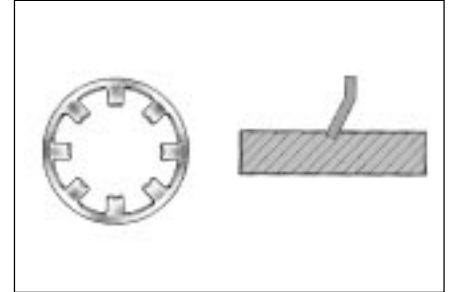


Use with plastic or metal tubing

Prestolok is a high performance push-in fitting.

Designed for use with most types of plastic tubing (polyamide, polyurethane, polyethylene, Pebax, Teflon®...), this high performance fitting can also be used with copper tubing* conforming to DIN 1786, NFA51-120, BS 2871 Part 2 (tolerance ± 0.05 mm). For steel, stainless steel tubing or other raw materials, please contact your Parker sales engineer.

* Tube must be cut square and correctly deburred.



Positive hold by a flexible stainless steel grab ring

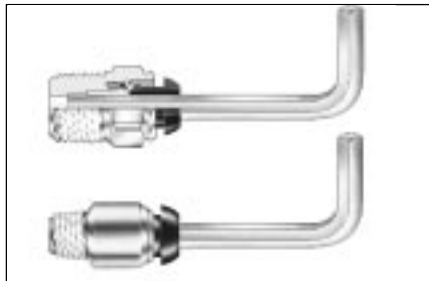
- the special shape of the radial teeth of the grab ring prevents longitudinal scratch marks on the tube.
- the elasticity of the grab ring absorbs vibration and pulsating pressure.
- a twist-free assembly, the tube can rotate freely even under pressure.



Ready-to-use fitting

The Prestolok range is manufactured with brass nickel plated male threads ready for use :

- parallel threads are supplied with a preassembled, fully retained O-Ring seal,
- taper threads are treated with a special PTFE for self sealing on assembly, reusable up to five times without additional sealing material.



Straight male connectors with internal hexagon

- the internal hexagon allows vertical mounting with the use of an Allen key. Because the internal hexagon does not go completely through the fitting, the fitting cannot slip down the Allen key during assembly.
- the lack of external hexagon gives a significant reduction in the overall dimensions enabling close mounting of these fittings to give very compact installations.



Plastic push button

- simple manual pressure on the user-friendly push button allows instant disconnection of the tube.
- tube sizes are marked on the push button for easy identification.

How to use

Assembly

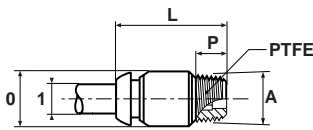
- Cut the tube square (and correctly deburred for copper)
- Insert the tube into the fitting until it bottoms.

Disassembly

- Simply press on the push button and withdraw the tube.

Prestolok push-in fitting

F23PB - Male connector - BSPT

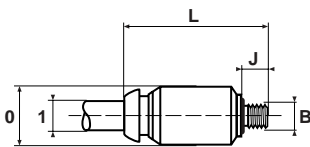


Threads are treated with PTFE sealing material

1	A	Part number	L	O	P	H. Int.	Weight g.
4	1/8	F23PB4-1/8	21	10	6.5	3	7
6	1/8	F23PB6-1/8	24	12	6.5	4	10
6	1/4	F23PB6-1/4	28	14	9.7	4	22
8	1/8	F23PB8-1/8	28	14	6.5	6	19
8	1/4	F23PB8-1/4	28	14	9.7	6	25

This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an Allen key.

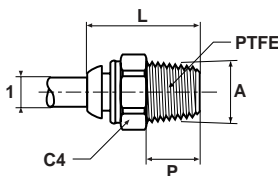
F28PB - Male connector - metric straight thread



1	B	Part number	J	L	O	H. Int.	Weight g.
4	M3x0.5	F28PB4M3	3.25	24	9.5	2.5	7
4	M5x0.8	F28PB4M5	5.00	26	9.5	2.5	7
6	M5x0.8	F28PB6M5	5.00	26	11.5	2.5	9

This fitting has been designed for use where space is at a premium. It is assembled using the internal hexagon and an Allen key.

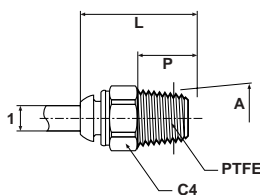
F3PB - Male connector - BSPT



Threads are treated with PTFE sealing material

1	A	Part number	C4	L	P	H. Int.	Weight g.
4	1/8	F3PB4-1/8	12	20.5	7.5	3	14
4	1/4	F3PB4-1/4	14	23.0	11.0	3	21
5	1/8	F3PB5-1/8	11	22.5	7.5	4	13
5	1/4	F3PB5-1/4	14	24.0	11.0	4	17
6	1/8	F3PB6-1/8	14	24.0	7.5	4	19
6	1/4	F3PB6-1/4	14	24.0	11.0	4	22
8	1/8	F3PB8-1/8	17	28.0	7.5	4	31
8	1/4	F3PB8-1/4	17	28.5	11.0	4	31
8	3/8	F3PB8-3/8	17	26.5	11.5	6	28
10	1/4	F3PB10-1/4	19	35.5	11.0	6	45
10	3/8	F3PB10-3/8	19	33.0	11.5	8	48
10	1/2	F3PB10-1/2	22	31.0	15.0	8	47
12	1/4	F3PB12-1/4	22	36.5	11.0	6	68
12	3/8	F3PB12-3/8	22	36.0	11.5	10	48
12	1/2	F3PB12-1/2	22	36.0	15.0	10	56
14	3/8	F3PB14-3/8	24	39.0	11.5	10	91
14	1/2	F3PB14-1/2	24	37.0	15.0	11	83

FPB - Male connector - NPTF



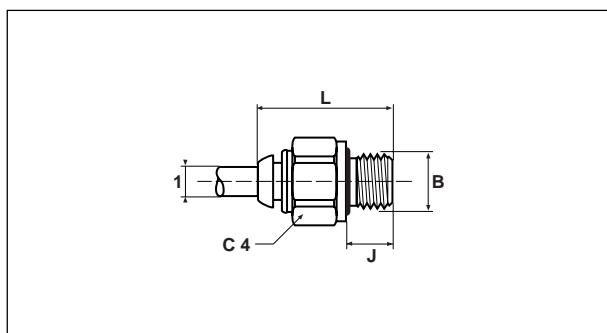
Threads are treated with PTFE sealing material

1	A	Part number	C4	L	P	H. Int.	Weight g.
6	1/8-27	FPB6-1/8	14	26.0	10.1	4	15
6	1/4-18	FPB6-1/4	14	28.5	14.6	4	20
10	1/4-18	FPB10-1/4	19	40.0	14.6	8	45
10	3/8-18	FPB10-3/8	19	34.0	14.6	8	40
12	3/8-18	FPB12-3/8	22	36.5	14.6	10	45

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Prestolok push-in fitting

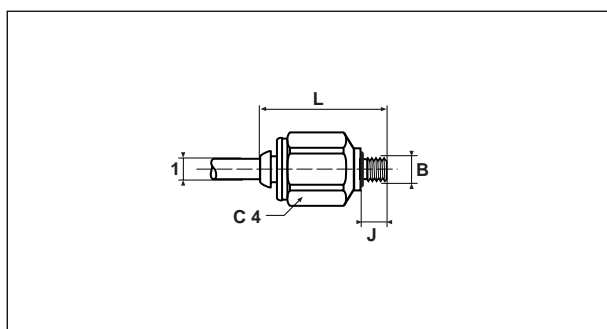
F4PB - Male connector - BSPP



* No protective cap facility.

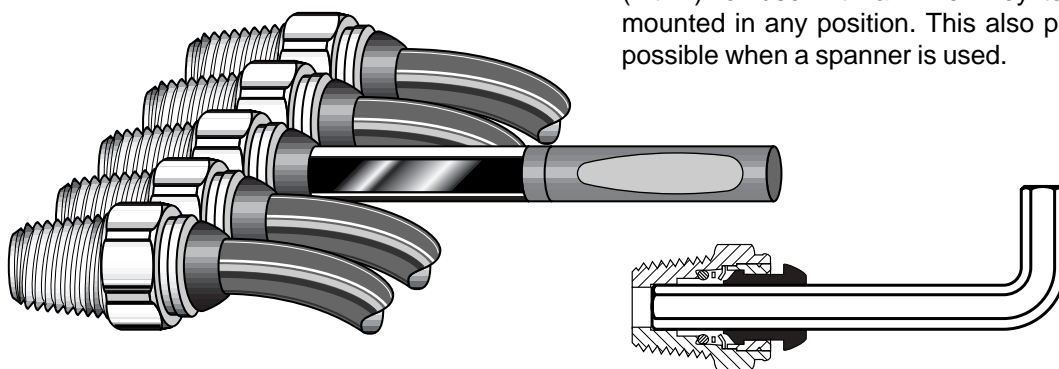
1	B	Part number	C4	J	L	H Int.	Weight g.
4	1/8	F4PB4-1/8	13	6	21.7	3	16
4	1/4	F4PB4-1/4	16	9	23.3	3	27
6	1/8	F4PB6-1/8*	13	6	25.3	4	17
6	1/4	F4PB6-1/4	16	9	26.0	4	41
8	1/8	F4PB8-1/8*	14	6	27.4	4	24
8	1/4	F4PB8-1/4	16	9	27.4	6	29
8	3/8	F4PB8-3/8	20	9	28.0	6	59
10	1/4	F4PB10-1/4	17	9	35.4	6	50
10	3/8	F4PB10-3/8	20	9	31.4	8	39
10	1/2	F4PB10-1/2	24	12	30.3	8	60
12	1/4	F4PB12-1/4	20	9	36.0	6	49
12	3/8	F4PB12-3/8*	20	9	35.7	8	49
12	1/2	F4PB12-1/2	24	12	34.1	10	72
14	3/8	F4PB14-3/8	22	9	38.3	8	66
14	1/2	F4PB14-1/2	24	12	37.4	10	81

F8PB - Male connector - metric straight thread



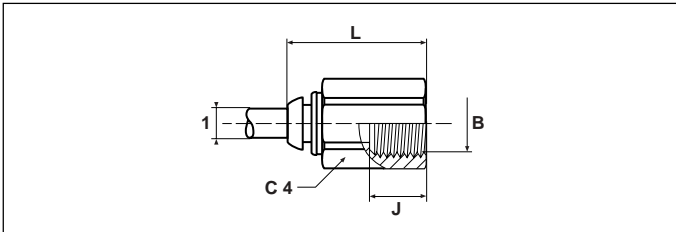
1	B	Part number	C4	J	L	H Int.	Weight g.
4	M5x0.8	F8PB4M5	12	5	25.5	2.5	16
4	M10x1	F8PB4M10	14	8	24.0	3.0	17
6	M5x0.8	F8PB6M5	14	5	26.0	2.5	17
6	M10x1	F8PB6M10	14	8	28.0	4.0	17
6	M12x1.5	F8PB6M12	17	10	30.0	4.0	23
8	M12x1.5	F8PB8M12	17	10	30.0	6.0	25
8	M16x1.5	F8PB8M16	22	10	28.0	6.0	34
8	M22x1.5	F8PB8M22	27	12	30.0	6.0	55

All straight male connectors have an internal hexagon (Int.H.) for use with an Allen key to allow the fitting to be mounted in any position. This also permits close porting not possible when a spanner is used.



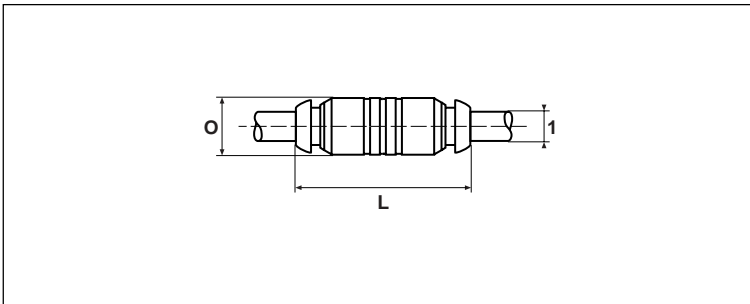
Prestolok push-in fitting

G4PB - Female connector - BSPP



1	B	Part number	C4	J	L	Weight g.
4	1/8	G4PB4-1/8	14	9.5	26.0	22
6	1/8	G4PB6-1/8	14	9.5	27.5	21
6	1/4	G4PB6-1/4	17	14.0	33.0	22
8	1/8	G4PB8-1/8	17	9.5	29.0	44
8	1/4	G4PB8-1/4	17	14.0	33.0	29

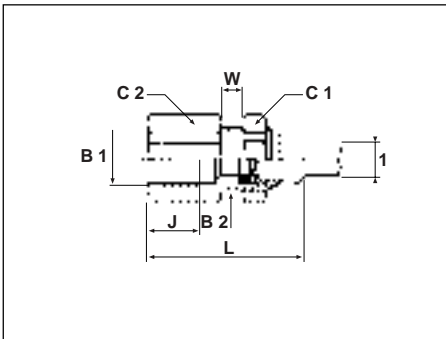
HPB - Equal union



1	Part number	Circlips*	L	O	Weight g.
4	HPB4	CIR4	33.0	10	11
5	HPB5	CIR5	34.5	11	15
6	HPB6	CIR6	36.0	12	13
8	HPB8	CIR8	38.0	14	16
10	HPB10	CIR10	48.0	17	27
12	HPB12	CIR12	48.0	21	58
14	HPB14	CIR14	54.0	22	71

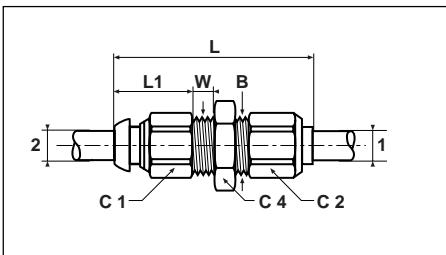
* Unions can be used as bulkhead unions. Simply mount two circlips in the machined grooves provided. Three grooves are provided to allow for a range of wall thickness : 1.5, 2 and 5 mm. (For circlips part number, see chart above).

WG4PB - Bulkhead union - female BSPP



1	B1	Part number	B2	C1	C2	J	L	W	Weight g.
4	1/8	WG4PB4-1/8	M11x0.75	14	14	8	25.0	6	21
6	1/8	WG4PB6-1/8	M13x1	17	17	8	25.0	6	32
6	1/4	WG4PB6-1/4	M13x1	17	19	12	29.5	6	42
8	1/8	WG4PB8-1/8	M15x1.25	19	17	8	25.0	6	32
8	1/4	WG4PB8-1/4	M15x1.25	19	19	12	30.0	6	42
10	3/8	WG4PB10-3/8	M18x1	22	22	12	34.0	8	60
12	3/8	WG4PB12-3/8	M23x1.5	27	24	12	35.0	10	86
12	1/2	WG4PB12-1/2	M23x1.5	27	27	14	40.0	10	104

WBMPB - Mixed bulkhead equal union



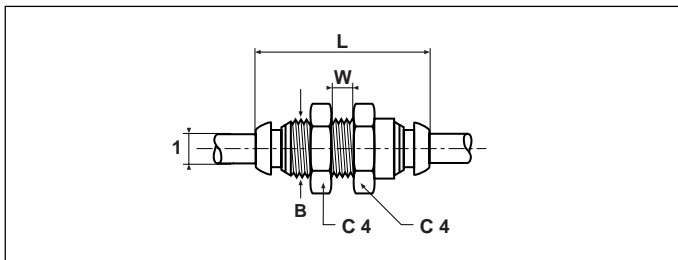
1	2	B	Part number	C1	C2	C4	L	L1	W Max.	Weight g.
4	4	M8x1	WBMPB4	10	10	12	34	15	5	22
6	6	M10x1	WBMPB6	12	10	12	37	16	5	22
8	8	M12x1	WBMPB8	14	14	16	39	17	5	29
10	10	M14x1	WBMPB10	17	17	19	45	20	5	50
12	12	M16x1	WBMPB12	22	19	22	49	21	5	85
14	14	M18x1	WBMPB14	24	22	22	52	23	7	112

This bulkhead fitting combines a Prestolok and Metrolok connection, to connect a copper tube with a plastic tube.

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

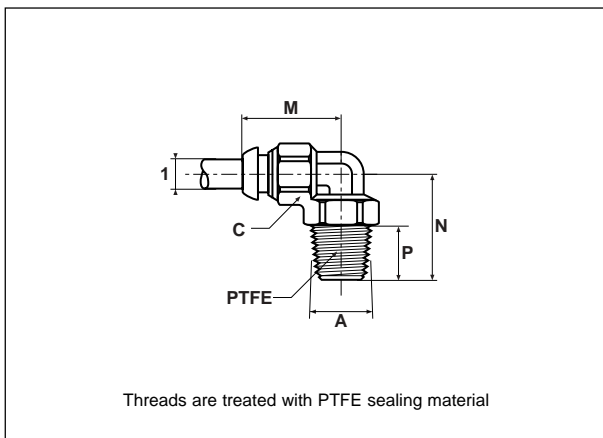
Prestolok push-in fitting

WPB - Bulkhead equal union



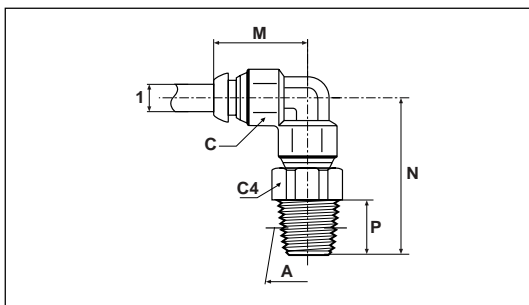
1	B	Part number	C4	L	W Max.	Weight g.
4	M11x0.75	WPB4	16	33	6	18
6	M13x1	WPB6	19	35	6	22
8	M15x1.25	WPB8	22	36	6	27
10	M18x1	WPB10	22	43	8	55
12	M23x1.5	WPB12	27	46	10	109
14	M24x1.5	WPB14	30	52	10	119

C3PB - Compact elbow - BSPT



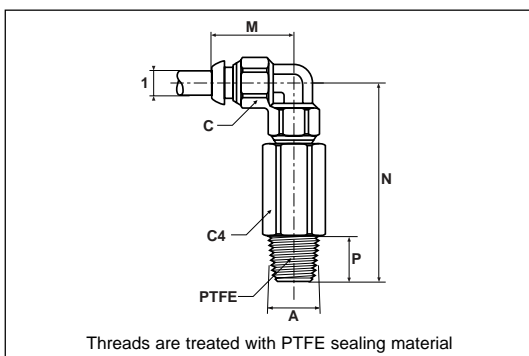
1	A	Part number	C	M	N	P	Weight g.
4	1/8	C3PB4-1/8	14	18	21	7.5	23
6	1/8	C3PB6-1/8	14	20	21	7.5	24
6	1/4	C3PB6-1/4	14	20	21	11.0	25
8	1/8	C3PB8-1/8	14	22	23	7.5	24
8	1/4	C3PB8-1/4	14	22	23	11.0	25
10	1/4	C3PB10-1/4	17	28	26	11.0	67
10	3/8	C3PB10-3/8	17	28	26	11.5	89
12	3/8	C3PB12-3/8	17	30	27	11.5	69
12	1/2	C3PB12-1/2	17	30	31	15.0	72
14	3/8	C3PB14-3/8	20	34	30	11.5	97
14	1/2	C3PB14-1/2	20	34	33	15.0	97

C6PB - Adjustable male elbow - NPT



1	A	Part number	C	C4	M	N	P	Weight g.
6	1/4-18	C6PB6-1/4	12	14	20	36.0	12.0	38
6	3/8-18	C6PB6-3/8	12	19	20	36.5	12.0	46
10	1/4-18	C6PB10-1/4	17	16	28	41.5	12.0	60
10	3/8-18	C6PB10-3/8	17	19	28	41.5	12.0	70
12	3/8-18	C6PB12-3/8	17	19	30	44.0	12.0	100
12	1/2-18	C6PB12-1/2	22	22	30	47.5	16.0	101

C63LPB - Adjustable extended male elbow - BSPT

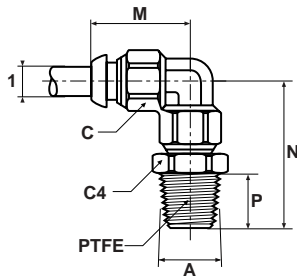


1	A	Part number	C	C4	M	N	P	Weight g.
4	1/8	C63LPB4-1/8	10	10	18	42.0	7.5	28
4	1/4	C63LPB4-1/4	10	14	18	46.0	11.0	52
6	1/8	C63LPB6-1/8	12	11	20	45.5	7.5	40
6	1/4	C63LPB6-1/4	12	14	20	49.5	11.0	60
8	1/8	C63LPB8-1/8	14	14	22	50.0	7.5	59
8	1/4	C63LPB8-1/4	14	14	22	52.5	11.0	64

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Prestolok push-in fitting

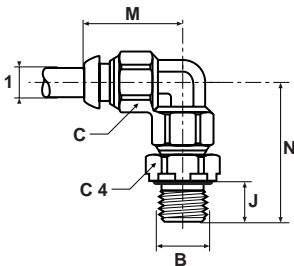
C63PB - Adjustable male elbow - BSPT



Threads are treated with PTFE sealing material

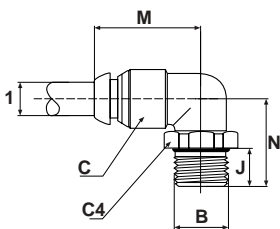
1	A	Part number	C	C4	M	N	P	Weight g.
4	1/8	C63PB4-1/8	10	10	18	26.5	7.5	19
4	1/4	C63PB4-1/4	10	14	18	30.0	11.0	27
6	1/8	C63PB6-1/8	12	11	20	28.0	7.5	25
6	1/4	C63PB6-1/4	12	14	20	31.0	11.0	35
8	1/8	C63PB8-1/8	14	14	22	30.0	7.5	33
8	1/4	C63PB8-1/4	14	14	22	33.0	11.0	40
8	3/8	C63PB8-3/8	14	17	22	34.5	11.5	51
10	1/4	C63PB10-1/4	17	17	28	40.0	11.0	59
10	3/8	C63PB10-3/8	17	17	28	39.0	11.5	65
12	1/4	C63PB12-1/4	22	19	30	42.0	11.0	105
12	3/8	C63PB12-3/8	22	19	30	41.0	11.5	109
12	1/2	C63PB12-1/2	22	22	30	44.5	15.0	118
14	3/8	C63PB14-3/8	25	22	34	46.0	11.5	152
14	1/2	C63PB14-1/2	25	22	34	48.5	15.0	162

C64PB - Adjustable male elbow - BSPP



1	B	Part number	C	C4	J	M	N	Weight g.
4	1/8	C64PB4-1/8	14	14	6	18	26.5	22
4	1/4	C64PB4-1/4	19	19	9	18	31.5	37
6	1/8	C64PB6-1/8	14	14	6	20	30.0	30
6	1/4	C64PB6-1/4	19	19	9	20	33.0	41
8	1/8	C64PB8-1/8	14	14	6	22	30.0	35
8	1/4	C64PB8-1/4	19	19	9	22	35.0	47
8	3/8	C64PB8-3/8	13	22	9	22	36.0	62
10	1/4	C64PB10-1/4	19	19	9	28	39.0	66
10	3/8	C64PB10-3/8	22	22	9	28	40.0	82
12	1/4	C64PB12-1/4	19	19	9	30	41.0	106
12	3/8	C64PB12-3/8	22	22	9	30	42.0	110
14	3/8	C64PB14-3/8	22	22	9	34	46.0	158
14	1/2	C64PB14-1/2	27	27	12	34	50.5	188

C64SPB - Compact adjustable male elbow - BSPP

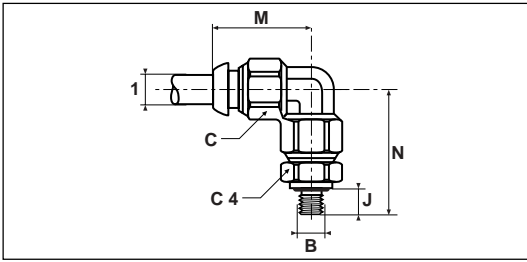


1	B	Part number	C	C4	J	M	N	Weight g.
4	1/8	C64SPB4-1/8	13	13	6	17	18.0	19
6	1/8	C64SPB6-1/8	13	13	6	22	18.0	22
6	1/4	C64SPB6-1/4	16	13	9	22	21.5	28
8	1/8	C64SPB8-1/8	13	15	6	25	18.0	25
8	1/4	C64SPB8-1/4	16	15	9	25	21.0	32
8	3/8	C64SPB8-3/8	19	15	9	25	21.0	36
10	1/4	C64SPB10-1/4	16	18	9	30	23.0	40
10	3/8	C64SPB10-3/8	19	18	9	30	23.0	49
12	1/4	C64SPB12-1/4	16	20	9	32	24.0	51
12	3/8	C64SPB12-3/8	19	20	9	32	24.0	55
12	1/2	C64SPB12-1/2	24	20	12	32	29.0	80

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

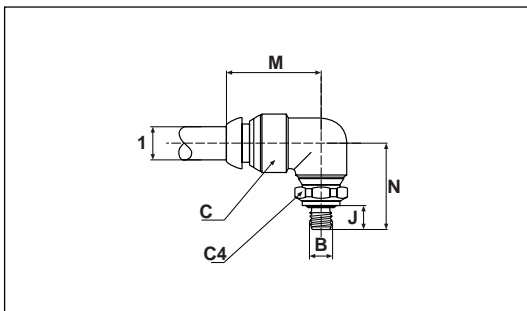
Prestolok push-in fitting

C68PB - Adjustable male elbow - metric straight thread



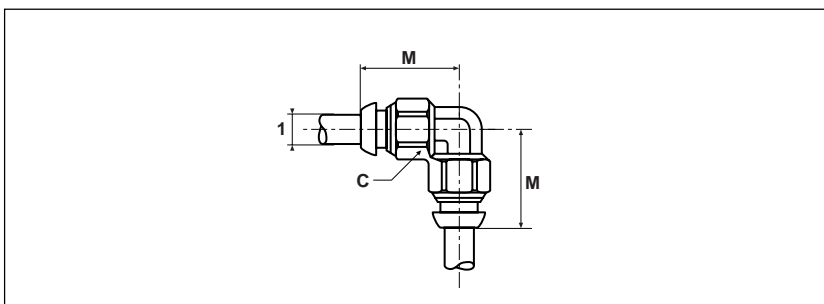
1	B	Part number	C	C4	J	M	N	Weight g.
4	M3x0.5	C68PB4M3	10	10	3.25	18	23.0	15
4	M5x0.8	C68PB4M5	10	10	5.00	18	24.5	16
6	M5x0.8	C68PB6M5	12	11	5.00	20	25.5	24

C68SPB - Compact adjustable male elbow - metric straight thread



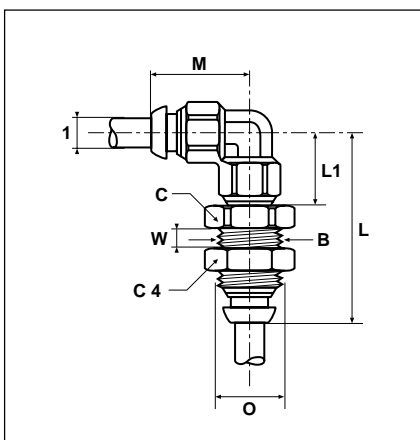
1	B	Part number	C	C4	J	M	N	Weight g.
4	M5x0.8	C68SPB4M5	10	12.5	5	17	18	16
6	M5x0.8	C68SPB6M5	10	12.5	5	17	18	17

EPB - Equal union elbow



1	Part number	C	M	Weight g.
4	EPB4	10	18.0	12
5	EPB5	12	20.5	23
6	EPB6	12	20.0	19
8	EPB8	14	22.0	22
10	EPB10	17	28.0	38
12	EPB12	22	30.0	73
14	EPB14	25	35.0	116

WE6PB - 90° adjustable bulkhead union elbow

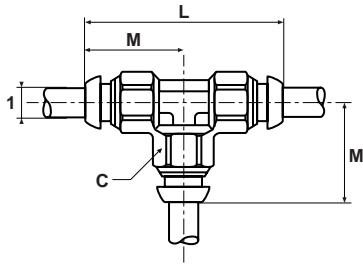


1	B	Part number	C	C4	L	L1	M	O	W Max.	Weight g.
4	M11x0.75	WE6PB4	14	16	37	18.0	18.0	11.5	6	28
6	M13x1	WE6PB6	17	17	39	19.5	20.5	13.5	6	50
8	M15x1.25	WE6PB8	19	19	43	21.5	22.5	15.5	6	65
10	M18x1	WE6PB10	22	22	54	29.0	28.5	18.5	8	128
12	M23x1.5	WE6PB12	27	27	59	30.0	30.0	23.5	10	189

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

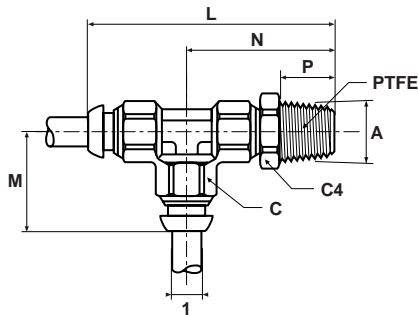
Prestolok push-in fitting

JPB - Equal union tee



1	Part number	C	L	M	Weight g.
4	JPB4	10	36	18.0	16
5	JPB5	12	41	20.5	28
6	JPB6	12	40	20.0	22
8	JPB8	14	44	22.0	29
10	JPB10	17	56	28.0	57
12	JPB12	22	60	30.0	100
14	JPB14	25	68	34.0	160

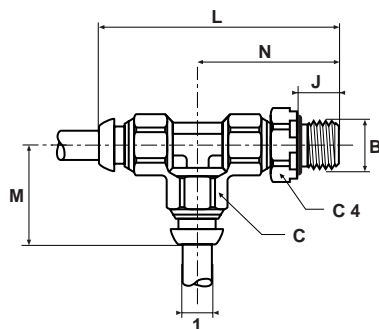
R63PB - Adjustable male run tee - BSPT



Threads are treated with PTFE sealing material

1	A	Part number	C	C4	L	M	N	P	Weight g.
4	1/8	R63PB4-1/8	10	10	44.5	18	26.5	7.5	23
4	1/4	R63PB4-1/4	10	14	48.0	18	30.0	11.0	31
6	1/8	R63PB6-1/8	12	11	48.0	20	28.0	7.5	28
6	1/4	R63PB6-1/4	12	14	51.0	20	31.0	11.0	38
8	1/8	R63PB8-1/8	14	14	52.0	22	30.0	7.5	40
8	1/4	R63PB8-1/4	14	14	55.0	22	33.0	11.0	46
8	3/8	R63PB8-3/8	14	17	56.5	22	34.5	11.5	58
10	1/4	R63PB10-1/4	17	17	68.0	28	40.0	11.0	77
10	3/8	R63PB10-3/8	17	17	67.0	28	39.0	11.5	84
12	1/4	R63PB12-1/4	22	19	72.0	30	42.0	11.0	132
12	3/8	R63PB12-3/8	22	19	71.0	30	41.0	11.5	135
12	1/2	R63PB12-1/2	22	22	74.5	30	44.5	15.0	144
14	3/8	R63PB14-3/8	25	22	80.0	34	46.0	11.5	197
14	1/2	R63PB14-1/2	25	22	82.5	34	48.5	15.0	207

R64PB - Adjustable male run tee - BSPP

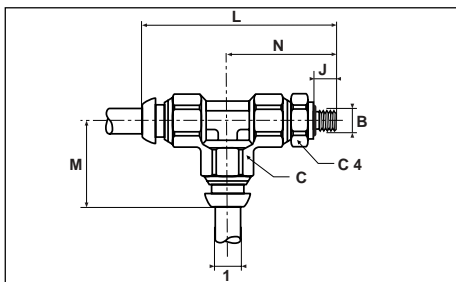


1	B	Part number	C	C4	J	L	M	N	Weight g.
4	1/8	R64PB4-1/8	10	14	6	44.5	18	26.5	26
4	1/4	R64PB4-1/4	10	19	9	49.5	18	31.5	41
6	1/8	R64PB6-1/8	12	14	6	50.0	20	30.0	33
6	1/4	R64PB6-1/4	12	19	9	53.0	20	33.0	44
8	1/8	R64PB8-1/8	14	14	6	52.0	22	30.0	42
8	1/4	R64PB8-1/4	14	19	9	57.0	22	35.0	54
8	3/8	R64PB8-3/8	14	22	9	58.0	22	36.0	69
10	1/4	R64PB10-1/4	17	19	9	67.0	28	39.0	85
10	3/8	R64PB10-3/8	17	22	9	68.0	28	40.0	101
12	1/4	R64PB12-1/4	22	19	9	71.0	30	41.0	133
12	3/8	R64PB12-3/8	22	22	9	72.0	30	42.0	136
14	3/8	R64PB14-3/8	25	22	9	80.0	34	46.0	203
14	1/2	R64PB14-1/2	25	27	12	84.5	34	50.5	232

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

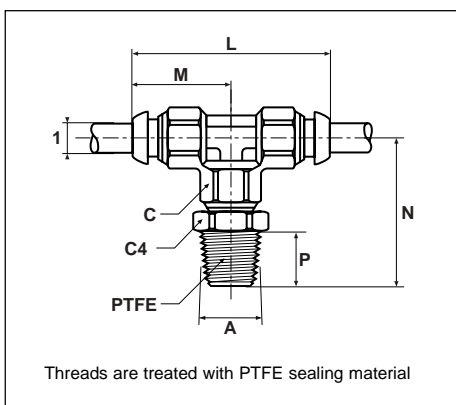
Prestolok push-in fitting

R68PB - Adjustable male run tee - metric straight thread



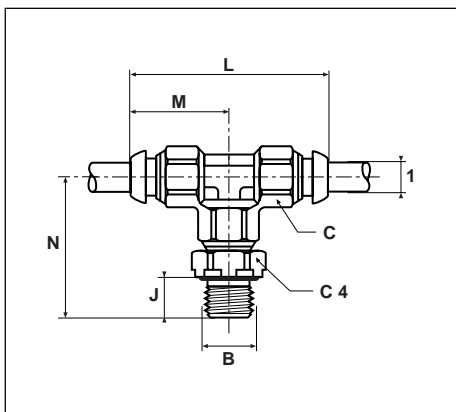
1	B	Part number	C	C4	J	L	M	N	Weight g.
4	M3x0.5	R68PB4M3	10	10	3.25	41.0	18	23.0	19
4	M5x0.8	R68PB4M5	10	10	5.00	42.5	18	24.5	20
6	M5x0.8	R68PB6M5	12	11	5.00	45.5	20	25.5	27

S63PB - Adjustable male branch tee - BSPT



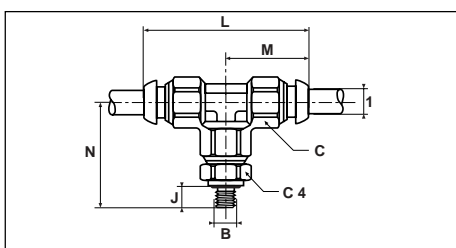
1	A	Part number	C	C4	L	M	N	P	Weight g.
4	1/8	S63PB4-1/8	10	10	36	18	26.5	7.5	23
4	1/4	S63PB4-1/4	10	14	36	18	30.0	11.0	31
6	1/8	S63PB6-1/8	12	11	40	20	28.0	7.5	28
6	1/4	S63PB6-1/4	12	14	40	20	31.0	11.0	38
8	1/8	S63PB8-1/8	14	14	44	22	30.0	7.5	40
8	1/4	S63PB8-1/4	14	14	44	22	33.0	11.0	46
8	3/8	S63PB8-3/8	14	17	44	22	34.5	11.5	58
10	1/4	S63PB10-1/4	17	17	56	28	40.0	11.0	77
10	3/8	S63PB10-3/8	17	17	56	28	39.0	11.5	84
12	1/4	S63PB12-1/4	22	19	60	30	42.0	11.0	132
12	3/8	S63PB12-3/8	22	19	60	30	41.0	11.5	135
12	1/2	S63PB12-1/2	22	22	60	30	44.5	15.0	144
14	3/8	S63PB14-3/8	25	22	68	34	46.0	11.5	197
14	1/2	S63PB14-1/2	25	22	68	34	48.5	15.0	207

S64PB - Adjustable male branch tee - BSPP



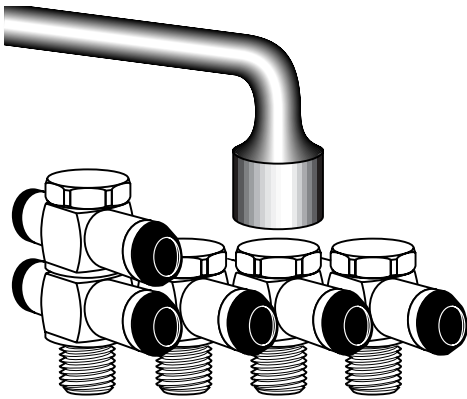
1	B	Part number	C	C4	J	L	M	N	Weight g.
4	1/8	S64PB4-1/8	10	14	6	36	18	26.5	26
4	1/4	S64PB4-1/4	10	19	9	36	18	31.5	41
6	1/8	S64PB6-1/8	12	14	6	40	20	30.0	33
6	1/4	S64PB6-1/4	12	19	9	40	20	33.0	44
8	1/8	S64PB8-1/8	14	14	6	44	22	30.0	42
8	1/4	S64PB8-1/4	14	19	9	44	22	35.0	54
8	3/8	S64PB8-3/8	14	22	9	44	22	36.0	69
10	1/4	S64PB10-1/4	17	19	9	56	28	39.0	85
10	3/8	S64PB10-3/8	17	22	9	56	28	40.0	101
12	1/4	S64PB12-1/4	22	19	9	60	30	41.0	133
12	3/8	S64PB12-3/8	22	22	9	60	30	42.0	136
14	3/8	S64PB14-3/8	25	22	9	68	34	46.0	203
14	1/2	S64PB14-1/2	25	27	12	68	34	50.5	232

S68PB - Adjustable male branch tee - metric straight thread



1	B	Part number	C	C4	J	L	M	N	Weight g.
4	M3x0.5	S68PB4M3	10	10	3.25	36	18	23.0	19
4	M5x0.8	S68PB4M5	10	10	5.00	36	18	24.5	20
6	M5x0.8	S68PB6M5	12	11	5.00	40	20	25.5	27

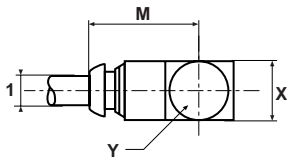
Prestolok push-in fitting



Banjo or double banjo fittings with banjo or stacking banjo bolts permit space-saving connections and can be used where the mounting of elbows is not possible.

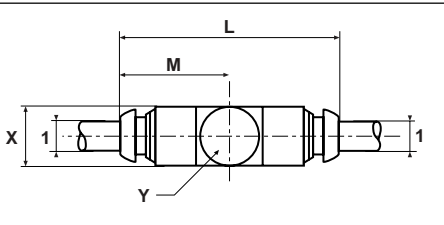
D

CORPB - Single banjo body only



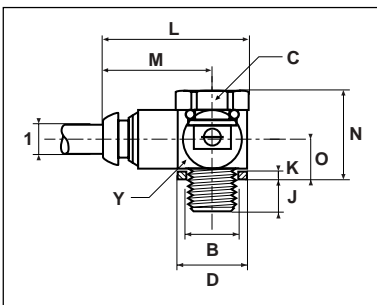
1	Part number	Part No. single bolt	Part No. stacking bolt	M	X	Y	Weight g.
4	CORPB4-5	SC8UM5-4	SC8UDM5-4	19.0	10	10	8
4	CORPB4-10	SC4U1/8-4	SC4UD1/8-4	22.5	14	14	16
6	CORPB6-10	SC4U1/8-4	SC4UD1/8-4	23.0	14	14	17
6	CORPB6-13	SC4U1/4-6	SC4UD1/4-6	24.5	14	17	21
8	CORPB8-10	SC4U1/8-4	SC4UD1/8-4	24.0	14	14	44
8	CORPB8-13	SC4U1/4-6	SC4UD1/4-6	25.5	14	17	59
10	CORPB10-17	SC4U3/8-10	SC4UD3/8-10	32.0	17	22	127

CORPBD - Double banjo body only



1	Part number	Part No. single bolt	Part No. stacking bolt	L	M	X	Y	Weight g.
4	CORPB4D5	SC8UM5-4	SC8UDM5-4	38	19.0	10	10	13
4	CORPB4D10	SC4U1/8-4	SC4UD1/8-4	45	22.5	14	14	22
6	CORPB6D10	SC4U1/8-4	SC4UD1/8-4	46	23.0	14	14	23
6	CORPB6D13	SC4U1/4-6	SC4UD1/4-6	49	24.5	14	17	47
8	CORPB8D10	SC4U1/8-4	SC4UD1/8-4	48	24.0	14	14	61

COR8PB/COR4PB - Single banjo - assembled



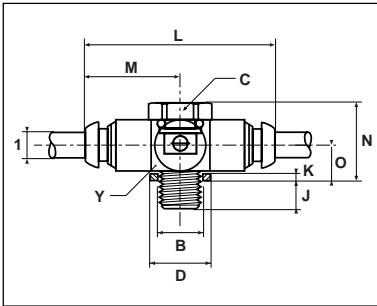
1	B	Part number	C	D	J	K	L	M	N	O	Y	Weight g.
4	M5x0.8	COR8PB4M5	8	8.2	4.5	1.0	24.0	19.0	13.5	6.0	10	18
4	1/8	COR4PB4-1/8	14	14.4	6.0	1.5	29.5	22.5	19.5	8.5	14	31
6	1/8	COR4PB6-1/8	14	14.4	6.0	1.5	30.0	23.0	19.5	8.5	14	32
6	1/4	COR4PB6-1/4	17	18.4	9.0	2.0	33.0	24.5	21.0	9.0	17	48
8	1/8	COR4PB8-1/8	14	14.4	6.0	1.5	31.0	34.0	19.5	8.5	14	58
8	1/4	COR4PB8-1/4	17	18.4	9.0	2.0	34.0	25.5	21.0	9.0	17	86
10	3/8	COR4PB10-3/8	22	21.6	9.0	2.5	43.0	32.0	25.5	11.0	22	122

These parts are delivered complete with sealing washer.

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Prestolok push-in fitting

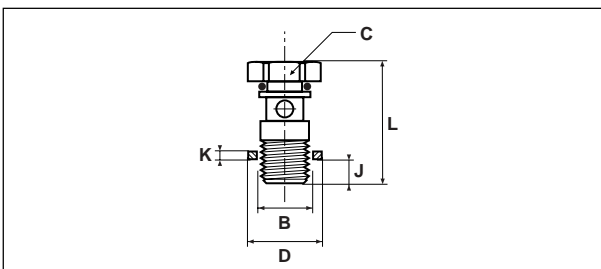
COR8PBD/COR4PBD - Double banjo - assembled



1	B	Part number	C	D	J	K	L	M	N	O	Y	Weight g.
4	M5x0.8	COR8PB4DM5	8	8.2	4.5	1.0	38.0	19.0	13.5	6.0	10	23
4	1/8	COR4PB4D1/8	14	14.4	6.0	1.5	45.0	22.5	19.5	8.5	14	37
6	M10x1	COR8PB6M10	14	14.5	8.0	1.5	30.8	23.1	19.7	8.5	14	35
6	M12x1.5	COR8PB6M12	17	17.5	10.0	2.0	33.9	24.6	21.0	9.0	14	40
6	1/8	COR4PB6D1/8	14	14.4	6.0	1.5	46.0	23.0	19.5	8.5	14	38
6	1/8	COR4PB6D1/4	17	18.4	9.0	2.0	49.0	24.5	21.0	9.0	17	75
8	1/8	COR4PB8D1/8	14	14.4	6.0	1.5	48.0	24.0	19.5	8.5	14	76

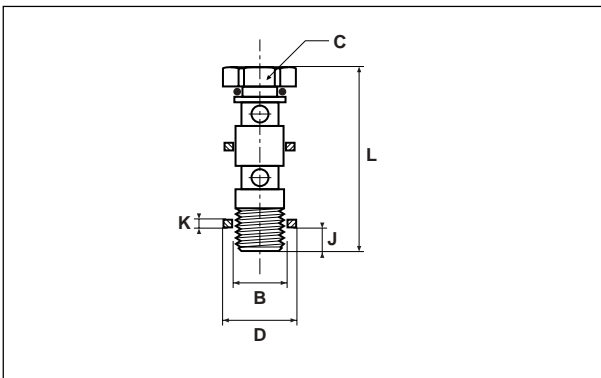
These parts are delivered complete with sealing washer.

SC8U/SC4U - Single banjo bolt with seals



B	Part number	C	D	J	K	L	Weight g.
M5x0.8	SC8UM5-4	8	8.2	4.5	1.0	18.5	10
1/8	SC4U1/8-4	14	14.4	6.0	1.5	25.5	15
1/4	SC4U1/4-6	17	18.4	9.0	2.0	30.0	27
3/8	SC4U3/8-10	22	21.6	9.0	2.5	34.5	124

SC8UD/SC4UD - Stacking banjo bolt with seals

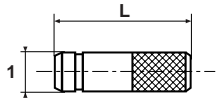


B	Part number	C	D	J	K	L	Weight g.
M5x0.8	SC8UDM5-4	8	8.2	4.5	1.0	29.5	16
1/8	SC4UD1/8-4	14	14.4	6.0	1.5	41.0	19
1/4	SC4UD1/4-6	17	18.4	9.0	2.0	46.0	28

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

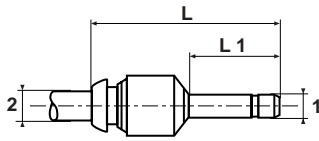
Prestolok push-in fitting

FNPB - Plug



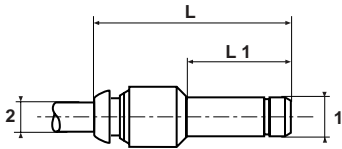
1	Part number	L	Weight g.
4	FNPB4	27	2
6	FNPB6	27	5
8	FNPB8	30	12
10	FNPB10	30	23
12	FNPB12	35	35
14	FNPB14	36	46

TEPB - Tube end expander



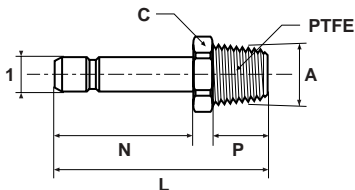
1	2	Part number	L	L1	Weight g.
4	6	TEPB4-6	39	19	7

TRPB - Tube end reducer



1	2	Part number	L	L1	Weight g.
6	4	TRPB6-4	40.0	22	8
8	4	TRPB8-4	39.5	22	10
8	6	TRPB8-6	41.5	22	10
10	4	TRPB10-4	37.0	27	27
10	6	TRPB10-6	43.0	27	15
10	8	TRPB10-8	47.5	27	16
12	6	TRPB12-6	38.0	27	23
12	8	TRPB12-8	44.0	27	17
12	10	TRPB12-10	52.0	27	20
14	8	TRPB14-8	41.0	30	31
14	10	TRPB14-10	51.0	30	23
14	12	TRPB14-12	55.0	30	36

T23HFPB - Tube end male adaptor - BSPT



Threads are treated with PTFE sealing material

1	A	Part number	C	L	N	P	Weight g.
5	1/8	T23HFPB5-1/8	10	31.5	20	7.5	12
5	1/4	T23HFPB5-1/4	14	36.0	20	11.0	26

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Prestoweld 2

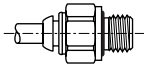
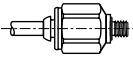
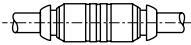
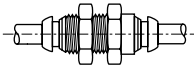
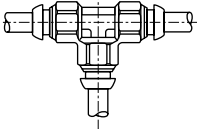
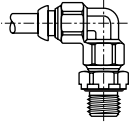
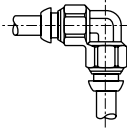
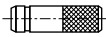
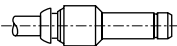
Spark resistant push-in fittings

Catalogue 3528-5-UK



Prestoweld 2 push-in fitting

Index

<p>Straight connectors & bulkhead unions</p>	 <p>Male connector BSPP F4PWB - p. E 4</p>	 <p>Male connector metric F8PWB - p. E4</p>	 <p>Equal union HPWB - p. E4</p>	 <p>Equal bulkhead union WPWB - p. E 5</p>
<p>90° elbows & tees</p>	 <p>Equal union tee JPWB - p. E 5</p>	 <p>Male elbow - BSPP C64PWB - p. E 5</p>	 <p>Equal elbow union EPWB - p. E 6</p>	
<p>Adaptors/ accessories</p>	 <p>Plug FNPB - p. E 6</p>	 <p>Tube end expander TRPWB - p. E 6</p>		
<p>Technical tubing</p>	<p>Please consult Thermoplastic single tubes and Pneumo-Tube bundles section (P).</p>			

E

Prestoweld 2 push-in fitting

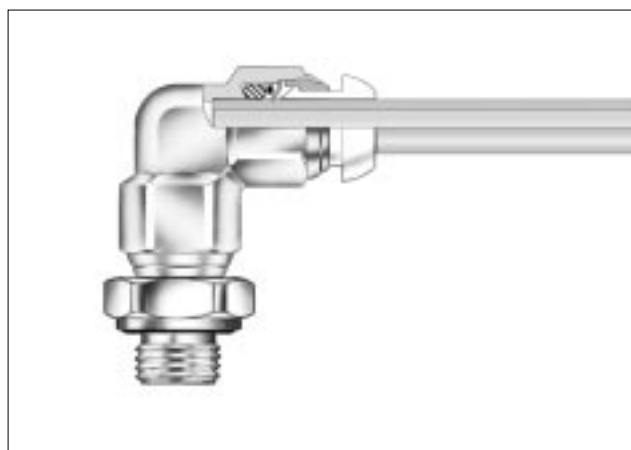
Principle

Prestoweld 2 push-in welding fittings have been specifically designed to meet the stringent requirements of the robotic welding industry for pneumatic controls.

Developed from the Prestolok push-in fitting, Prestoweld 2 uses “elastic teeth” grab ring technology which guarantees excellent tube retention particularly critical in these applications.

Prestoweld 2 is designed for use with weld spark resistant polyurethane halogene free Parker Prestoweld 2 tubing. It features a special polyamide Starflam U2Z22/8 push-button design which resist to sparks and weld spatter and prevents tube damaging.

Prestoweld 2 fittings are perfectly designed for use with pneumatic systems in the robotics industry.



Technical features

Material							Working pressure	Working temperature
1	2	3	4	5	6	7		
Body	Threaded parts	Sleeve	Grab ring	Push button	Back-up washer	O-ring		
Nickel plated brass	Nickel plated brass	Brass	Stainless steel	Polyamide STARFLAM U2Z22/8	Brass	Nitrile	From 0.01 to 25 bar	From -25°C to +100°C

Advantages

Full flow capabilities Spark resistant



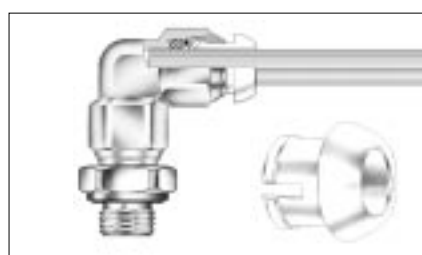
Brass nickel plated body

Brass is a raw material providing:

- robustness,
- excellent shock resistance,
- good temperature capability,
- excellent spark resistance.

Nickel plating gives improved corrosion resistance and a bright appearance which does not deteriorate.

Compact installation Wide range



Protective push-button

- the unique design of the Prestoweld 2 polyamide Starflam U2Z22/8 push-button and its thermic properties prevent damages from sparks and weld spatter.
- simple manual pressure on the push button allows instant disconnection of the tube.
- the tube size are marked on the push button for easy identification.

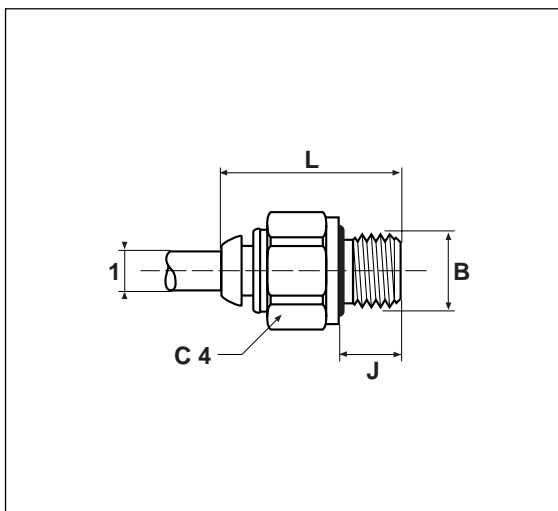


Ready-to-use fitting

- The Prestoweld 2 range contains ready to use fittings equipped by BSPP adaptors with unloosable o-ring.
- this fitting do not need tubing preparation.
 - the Prestoweld 2 tubing allow a low bend radius for a best space saving.

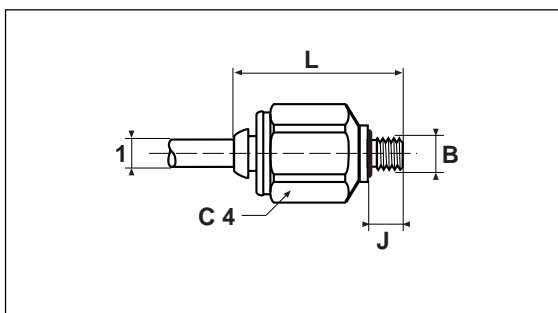
Prestoweld 2 push-in fitting

F4PWB - Male connector - BSPP



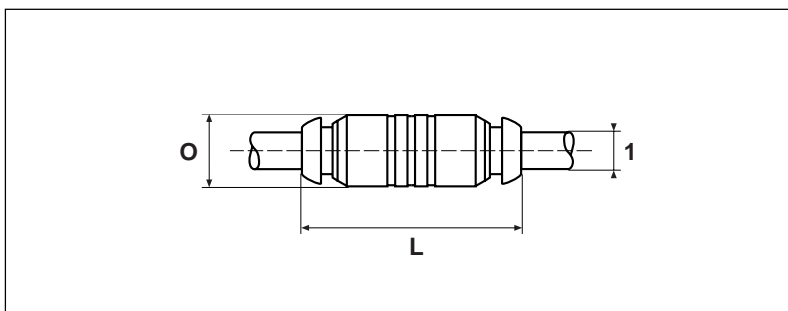
1	B	Part number	C4	J	L	H Int.	Weight g.
4	1/8	F4PWB4-1/8	13	6	21.7	3	16
4	1/4	F4PWB4-1/4	16	9	23.3	3	27
6	1/8	F4PWB6-1/8	13	6	25.3	4	17
6	1/4	F4PWB6-1/4	16	9	26.0	4	24
8	1/8	F4PWB8-1/8	14	6	27.4	4	24
8	1/4	F4PWB8-1/4	16	9	27.4	6	29
8	3/8	F4PWB8-3/8	20	9	28.0	6	59
10	1/4	F4PWB10-1/4	17	9	35.4	6	50
10	3/8	F4PWB10-3/8	20	9	31.4	8	39
10	1/2	F4PWB10-1/2	24	12	30.3	8	60
12	1/4	F4PWB12-1/4	20	9	36.0	6	49
12	3/8	F4PWB12-3/8	20	9	35.7	8	49
12	1/2	F4PWB12-1/2	24	12	34.1	10	72
14	3/8	F4PWB14-3/8	22	9	38.3	8	66
14	1/2	F4PWB14-1/2	24	12	37.4	10	81

F8PWB - Male connector - Metric



1	B	Part number	C4	J	L	H Int.	Weight g.
4	M5x0.8	F8PWB4M5	10	5	25.3	2.5	16

HPWB - Equal union

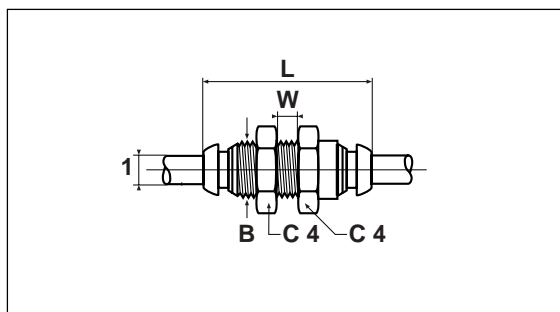


1	Part number	L	O	Weight g.
4	HPWB4	32.5	10	11
6	HPWB6	35.6	12	13
8	HPWB8	38.0	14	18
10	HPWB10	48.8	17	27
12	HPWB12	48.8	21	58
14	HPWB14	54.6	22	71

For product availability please consult our price list 0093-UK
 Dimensions shown may be changed at any time without prior notice.

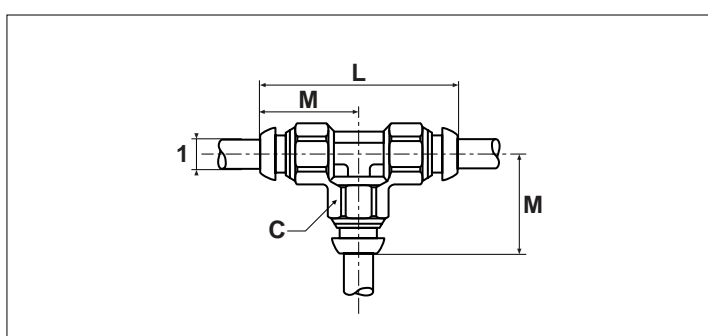
Prestoweld 2 push-in fitting

WPWB - Equal bulkhead union



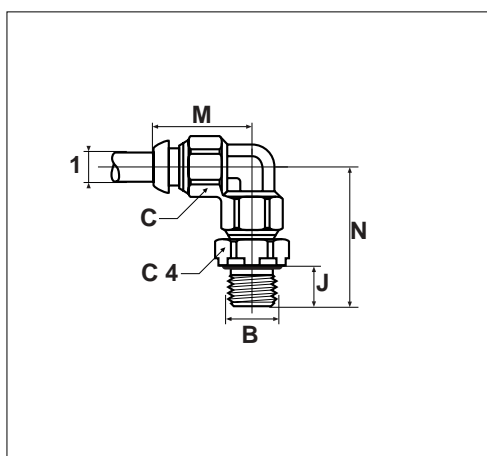
1	B	Part number	C4	J	0	W max	Weight g.
6	M13x1	WPWB6	17	35.6	13	6	22
8	M15x1.25	WPWB8	19	38.0	15	6	27
10	M18x1	WPWB10	22	47.8	18	8	55
12	M23x1.5	WPWB12	27	48.9	23	10	109

JPWB - Equal union tee



1	Part number	C	L	M	Weight g.
6	JPWB6	12	41.0	20.5	22
8	JPWB8	14	45.4	22.7	29
10	JPWB10	17	57.2	28.6	57
12	JPWB12	22	60.4	30.2	100

C64PWB - Adjustable male elbow BSPP

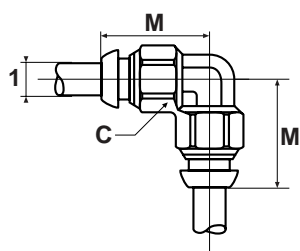


1	B	Part number	C	C4	J	M	N	Weight g.
6	1/8	C64PWB6-1/8	12	14	6	20.5	27.4	32
6	1/4	C64PWB6-1/4	12	19	9	20.5	32.4	41
8	1/8	C64PWB8-1/8	14	14	6	22.7	29.6	35
8	1/4	C64PWB8-1/4	14	19	9	22.7	34.6	47
8	3/8	C64PWB8-3/8	14	22	9	22.7	35.6	62
10	1/4	C64PWB10-1/4	17	19	9	28.6	39.2	66
10	3/8	C64PWB10-3/8	17	22	9	28.6	40.2	82
12	1/4	C64PWB12-1/4	22	19	9	30.2	40.8	106
12	3/8	C64PWB12-3/8	22	22	9	30.2	41.8	110

For product availability please consult our price list 0093-UK
Dimensions shown may be changed at any time without prior notice.

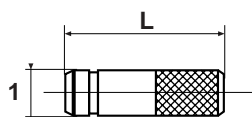
Prestoweld 2 push-in fitting

EPWB - Equal union elbow



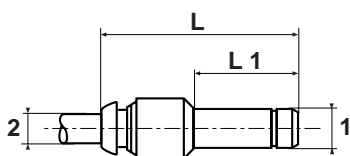
1	Part number	C	M	Weight g.
4	EPWB4	10	18.3	12
6	EPWB6	12	20.5	19
8	EPWB8	14	22.7	22
10	EPWB10	17	28.6	38
12	EPWB12	22	30.2	73
14	EPWB14	25	35.5	116

FNPB - Plug



1	Part number	L	Weight g.
6	FNPB6	27	6
8	FNPB8	30	12
10	FNPB10	30	20
12	FNPB12	35	32

TRPWB - Tube end expander



1	2	Part number	L	M	O	Weight g.
8	4	TRPWB8-4	39.3	22	10	12
8	6	TRPWB8-6	41.3	22	12	14
10	6	TRPWB10-6	43.1	27	12	18
10	8	TRPWB10-8	47.5	27	14	18
12	6	TRPWB12-6	37.8	27	13	25
12	8	TRPWB12-8	44.0	27	14	24
12	10	TRPWB12-10	52.4	27	17	32

Parker Prestoweld 2 fittings are designed to be used with the Parker Prestoweld 2 Tube.
See «Thermoplastic single tube and Pneumo-Tube bundles» section (P).

For product availability please consult our price list 0093-UK
Dimensions shown may be changed at any time without prior notice.

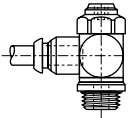
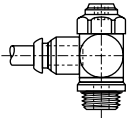
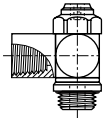
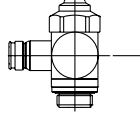
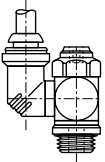
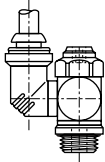
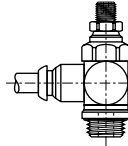
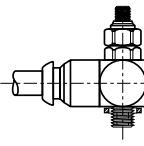
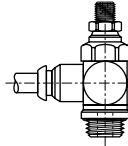
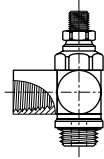
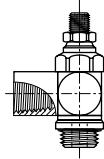
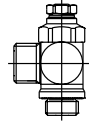
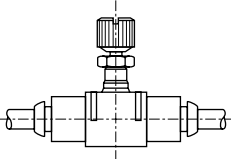
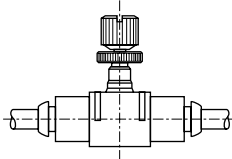
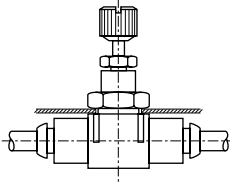
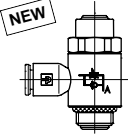
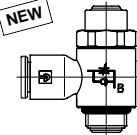
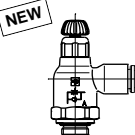
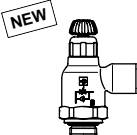
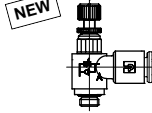
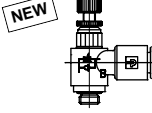
Pneumatic integrated function fittings

Catalogue 0019-5-UK



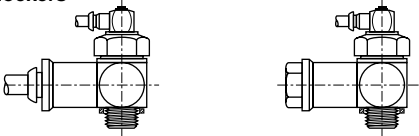
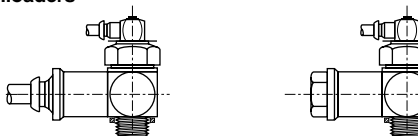
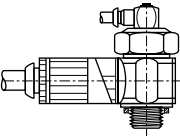
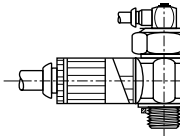
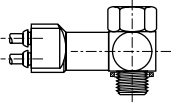
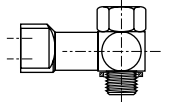

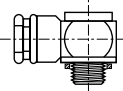
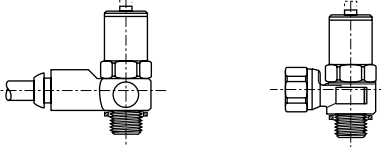
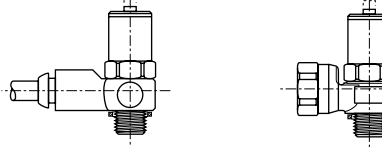
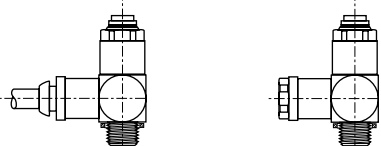
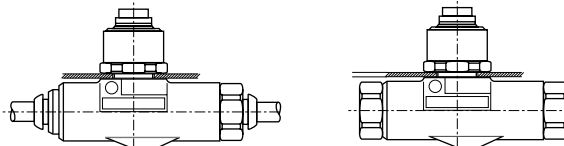





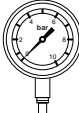
Pneumatic integrated function fittings

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Prestoflow Banjo flow regulator - compact	 <p>with push-in connection metric bolt PTF8PB / PTFA8PB - p. F 9</p>	 <p>with push-in connection BSPP bolt PTF4PB / PTFA4PB - p. F 9</p>	 <p>with threaded connection BSPP bolt PTF4 - p. F 9</p>	 <p>with spark resistant push-in connection - BSPP bolt PTF4PBW - p. F 10</p>
Prestoflow Banjo flow regulator - swivel outlet	 <p>with push-in connection metric bolt PTF8E6PB - p. F 11</p>	 <p>with push-in connection BSPP bolt PTF4E6PB - p. F 11</p>		
Prestoflow Banjo flow regulator - with locknut	 <p>with push-in connection metric bolt PTFAL8PB - p. F 12</p>	 <p>with push-in connection BSPP bolt PTFL8PB - p. F 13</p>	 <p>with push-in connection BSPP bolt PTFL4PB - p. F 13</p>	F
 <p>with threaded connection/ metric bolt PTFL8 / PTFAL8 - p. F 13</p>		 <p>with threaded connection - BSPP bolt PTFL4 - p. F 13</p>	 <p>with compression connection BSPP bolt PTFL4COB - p. F 13</p>	
Prestoflow Flow regulator - In-line	 <p>with push-in connection PTFIPK - p. F 15</p>	 <p>with push-in connection ultrafine adjustment PTFMIPK - p. F 15</p>	 <p>with push-in connection PTFIWPK - p. F 15</p>	
Prestoflow compact and micro	 <p>with push-in connection BSPP / metric bolt PTFC4/8PK - p. F 16</p>	 <p>with push-in connection BSPP / metric bolt PTFAC4/8PK - p. F 16</p>	 <p>with push-in connection BSPP bolt PTFLC4PK - p. F 16</p>	 <p>with push-in connection BSPP bolt PTFLAC4PK - p. F 17</p>
 <p>with push-in connection metric bolt PTFLM8PK - p. F 17</p>		 <p>with push-in connection metric bolt PTFALM8PK - p. F 17</p>		

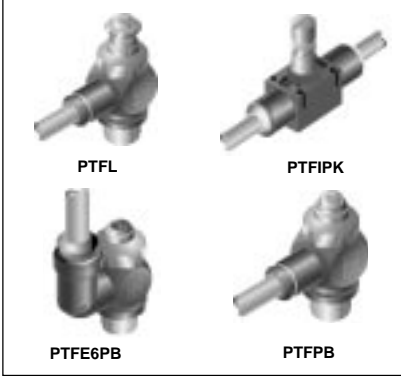
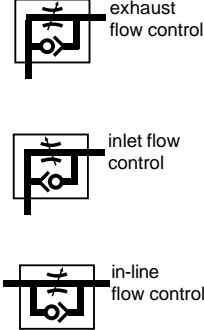

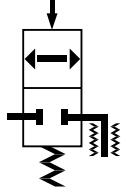

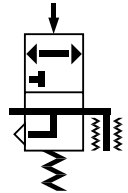

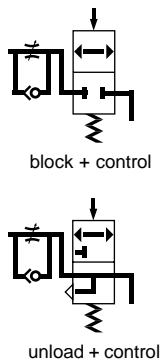
Pneumatic integrated function fittings

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Prestobloc and Prestoload	Blockers  with push-in connection BSPP bolt PWB-A - p. F 19 with threaded connection BSPP bolt PWB-A - p. F 19		Unloaders  with push-in connection BSPP bolt PWE-A - p. F 21 with threaded connection BSPP bolt PWE-A - p. F 21			
Prestotwin	flow regulator + blocker  with push-in connection BSPP bolt / barrel adjustment PWR-HB - p. F 23		flow regulator + unloader  with push-in connection BSPP bolt / barrel adjustment PWR-HE - p. F 23			
Prestosensor Pressure sensors	pneumatic output  with push-in connection BSPP and metric bolt PTP4/8PB - p. F 24	electrical output  with threaded connection BSPP and metric bolt PTP4/8 - p. F 25	electronic output  plug-in sensor electrical output PWS-M - p. F 25	 plug-in sensor electronic output PWS-E - p. F 25 banjo socket with sensor locking clip PWS-B - p. F 25		
Prestostart Pneumatic slow start fittings	power valve version  with push-in connection BSPP bolt PCV4PK - p. F 27 with threaded connection BSPP bolt PCV4 - p. F 27		system isolating version  with push-in connection BSPP bolt PIV4PK - p. F 27 with threaded connection BSPP bolt PIV4 - p. F 27			
Prestoreduce Pressure reducers	banjo version  with push-in connection BSPP bolt PRB4PB - p. F 29 with threaded connection BSPP bolt PRB4 - p. F 29		in-line version  with push-in connection BSPP bolt PRIPB - p. F 29 with threaded connection BSPP bolt PRI4 - p. F 29			
Prestosil Flow regulator + silencer and Accessories	 with threaded connection - BSPP PRS - p. F 30	 non-return equal union PWA-L - p. F 31	 in-line Prestoflow assembly clip Clip - p. F 31	 manual ratchet control for pressure reducers Ratchet - p. F 31	 sealing plug for pressure reducers Splug - p. F 31	 pressure gauge for push-in fitting P Gauge - p. F 31

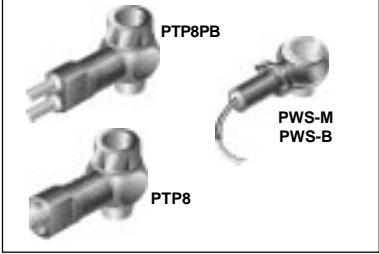
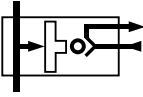

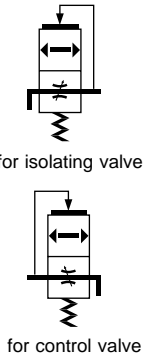
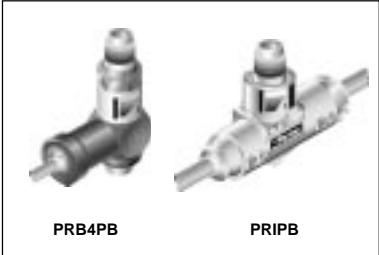
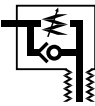

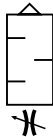
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Pneumatic integrated function fittings

Product family	Symbol	Function	Part number
Prestoflow - Flow regulator 		<p>Prestoflow flow control regulators are designed to adjust the speed of the cylinder piston rod by controlling the flow of air. They are unidirectional and are normally installed on the exhaust port of the cylinder. For specific applications, they could be mounted in-line or on the inlet port.</p> <p>Compact and micro series are specially designed where space saving is a priority.</p>	<p>PTF p. F 9 PTFE6 p. F 11 PTFL p. F 12 PTFI p. F 15 PTFC p. F 16 PTFLC p. F 16 PTFLM ... p. F 17</p>
Prestobloc - Blocker 		<p>Prestobloc is a pneumatically controlled check valve for mounting onto the cylinder port. It is designed to block the movement of the piston rod at selected positions.</p> <p>As a safety device it prevents the exhausting of air from the cylinder in the event of a power failure.</p>	<p>PWB-A p. F 19</p>
Prestoload - Unloader 		<p>Prestoload is a pneumatically controlled exhaust valve for direct mounting onto the cylinder ports.</p> <p>It allows the rapid exhaust of air from the cylinder returning the piston rod to the initial position.</p>	<p>PWE-A p. F 21</p>
Prestotwin Flow regulator + blocker Flow regulator + unloader 		<p>Prestotwin fittings combine flow control with blocking function or unloading function. This concept allows a more compact installation and saves assembly time.</p>	<p>PWR-HB p. F 23 PWR-HE p. F 23</p>

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Pneumatic integrated function fittings

Product family	Symbol	Function	Part number
<p>Prestosensor Pressure sensor</p> 		<p>Prestosensor sensor fittings are designed to detect pressure drop and can be mounted on a cylinder or control valve. The sensor fittings produce a signal, either, pneumatic, electric or electronic when the back pressure disappears at the end of stroke.</p>	<p>PTP4/8 p. F 24 PWS-M1012.. p. F 25 + PWS-B p. F 25 PWS-E111 p. F 25 + PWS-B p. F 25 PWS-E101 p. F 25 + PWS-B p. F 25</p>
<p>Prestostart Slow start fitting</p> 	 <p>for isolating valve</p> <p>for control valve</p>	<p>Prestostart slow start fittings allow the air pressure to increase gradually when the pneumatic installation is started. This slow start prevents shocks that may occur when full system pressure is introduced, thus reducing the risk of damage to components.</p>	<p>PCV p. F 27 PIV p. F 27</p>
<p>Prestoreduce Pressure reducer</p> 		<p>Prestoreduce pressure reducing fittings allow for the manual reduction of air pressure in a pneumatic installation. This pressure reduction limits the amount of compressed air used, resulting in a saving of energy.</p>	<p>PRB p. F 29 PRI p. F 29</p>
<p>Prestosil Flow regulator + silencer</p> 		<p>Prestosil combined silencers and flow control regulators provide efficient silencing of exhaust noise and permits precise adjustment of piston rod speed.</p>	<p>PRS p. F 30</p>

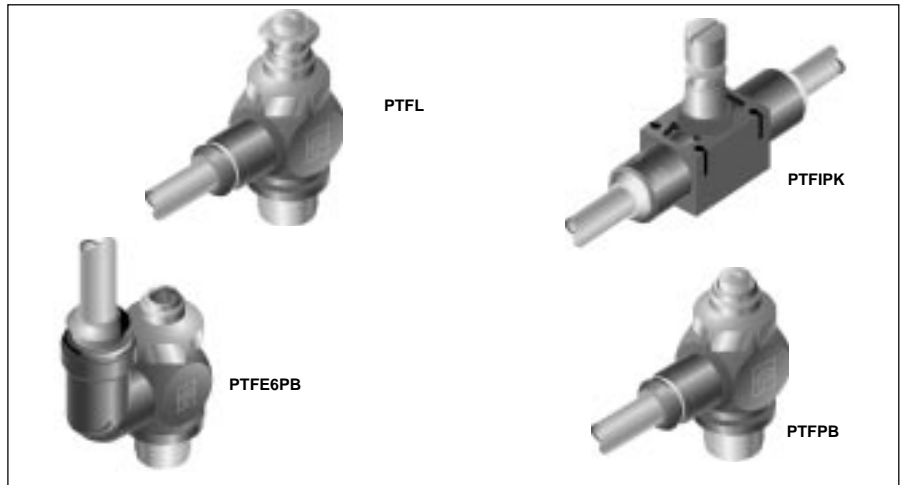
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Pneumatic integrated function fittings

Prestoflow - Flow regulators

Parker offer a wide range of flow regulators to meet a large variety of applications.

Prestoflow can be fitted directly to a cylinder port or mounted in the line. Prestoflow regulators with push-in terminations are suitable for use with a wide range of plastic tubing. Prestoflow regulators with threaded terminations can be adapted for use with copper and steel tubing or hoses.

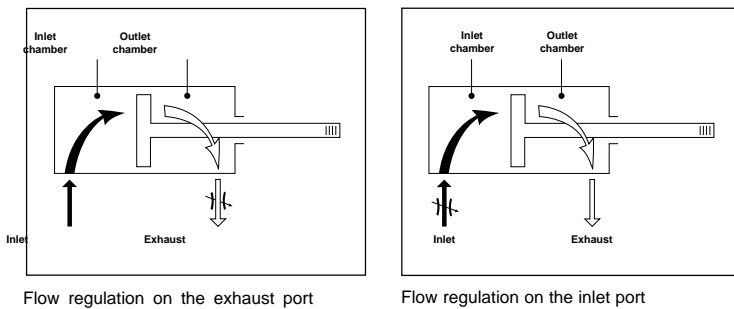


General principle

The piston rod moves as a result of the pressure differential either side of the piston. The speed of the rod is normally determined by the exhaust air flow from the cylinder. The control of this air flow is via an adjustable needle valve installed on the exhaust port.

On single acting cylinders and some miniature (M5) double acting cylinders, the air flow can be controlled from the inlet port.

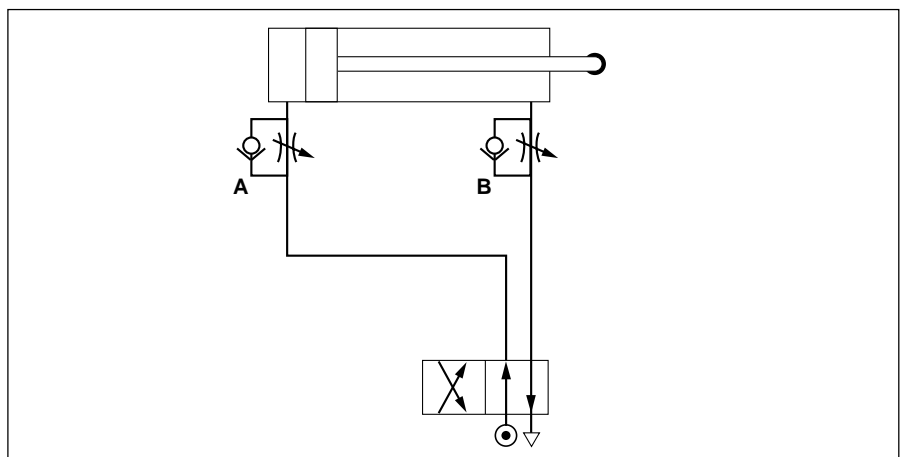
To permit regular and smooth movement of the piston rod, flow control should be made as near to the cylinder as possible.



Operation

The mounting of two flow control devices on a cylinder permits speed control of the cylinder rod in both directions.

The sketch opposite shows a cylinder with inlet air at port A. Air passes freely through the flow control valve A, with the check valve in the open position. The exhaust is controlled by the flow control fitting B, where the check valve in the closed position forces the air to go through the adjustable needle valve. The function of A and B are reversed when inlet air is applied to port B.

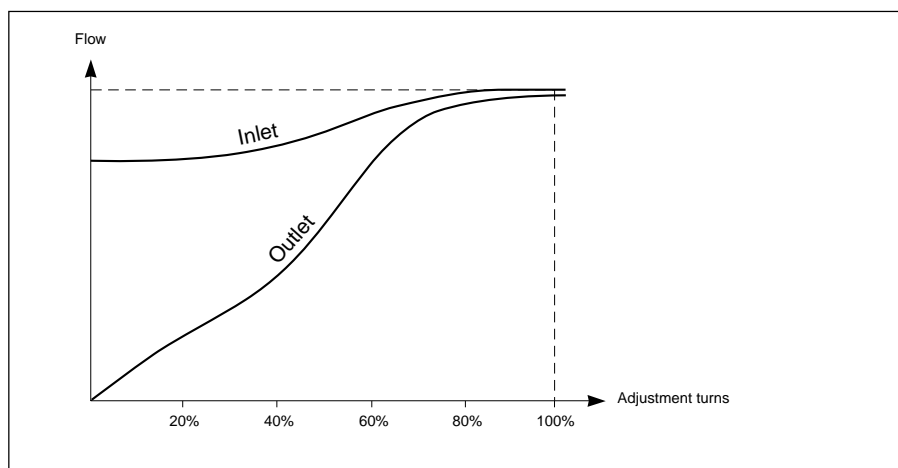


Flow control on a double acting cylinder





Pneumatic integrated function fittings

Flow characteristics

Prestoflow pneumatic integrated fittings are designed to permit maximum flow in both directions. This full flow in both directions, together with the very precise setting of the screw, permits a wide range of adjustment between the minimum and maximum speeds. The sketch opposite shows the flow progression according to the adjustment of the screw.



Selection guide

Feature		 PTF series	 PTFL series	 PTFE6 series	 PTFI series
Mounting	Direct	Yes	Yes	Yes	-
	Inline	-	-	-	Yes
Control	Outlet	Yes	Yes	Yes	Yes
	Inlet	Yes	Yes	-	-
Tube connection	Push-in	4 mm - 12 mm	4 mm - 12 mm	4 mm - 8 mm	4 mm - 12 mm
	compression	-	6 mm - 18 mm	-	-
	Threaded-Female	1/8 - 1/2 BSPP	1/8 - 1/2 BSPP	-	-
Bolt terminations		M5	M5	M5	-
		1/8 - 1/2 BSPP	1/8 - 1/2 BSPP	1/8 - 3/8 BSPP	-
Working pressure	Bar	1 - 10	1 - 10	1 - 10	1 - 10
Working temperature	°C	-25°C - +100°C	-25°C - +100°C	-25°C - +70°C	-15°C - +70°C
Body material		Brass	Brass	Brass	High resistance polyamide
Adjustment screw material		Brass	Brass	Brass	Brass-Duralumin (Ultrafine adjust)
Locknut		No	Yes	No	Yes
Panel mounting		-	-	-	Yes
Bank mounting		-	-	-	Yes
Swivel	Outlet	-	-	Yes	-

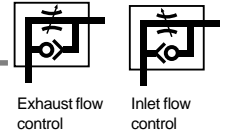
Flow regulators - assembly torques

To ensure a leak free connection for port mounted regulators the regulator bolt should be tightened in accordance with the table opposite.

Assembly torque		
Thread	Min. Nm	Max. Nm
M5	0.2	0.5
1/8	6	9
1/4	10	15
3/8	14	22
1/2	30	42

Pneumatic integrated function fittings

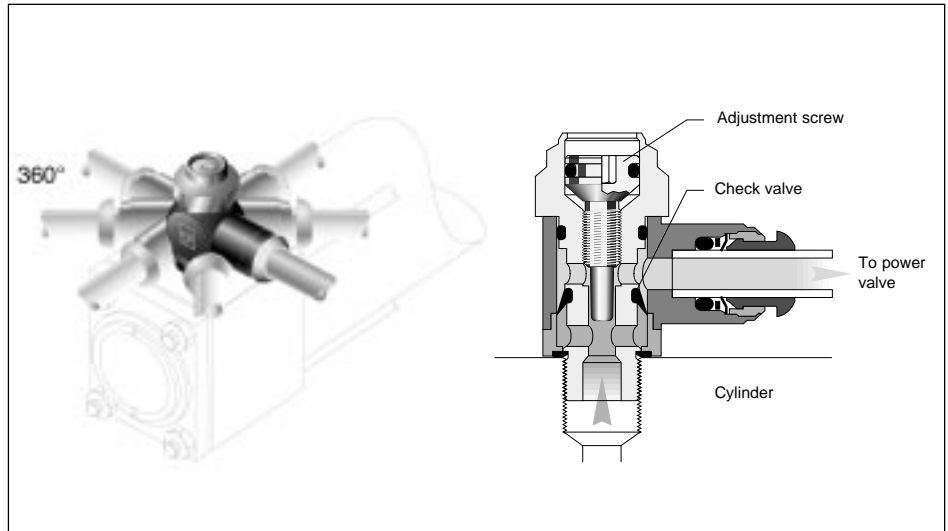
Prestoflow - Flow regulator - Compact series



Principle

Prestoflow compact flow regulators are designed for mounting directly onto cylinder ports to provide precise control of piston rod speed. Thanks to their compactness they are particularly suitable for applications where space is at a premium. These unidirectional flow regulators are available for exhaust or inlet flow control.

- A check valve blocks the full flow ports in the exhaust or inlet direction.
- The flow is controlled by a needle valve fitted in the regulator bolt.



Technical features

Body material	Bolt material	Bolt thread	Sealing device		Terminations		Working temperature	Working pressure
Brass black epoxy coated	Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	M5 Nylon washer	1/8 - 1/2 BSPP Nitrile E. D. seal	4 mm - 12 mm push-in connection	1/8 - 1/2 BSPP + M5 Female thread DIN 3852 long	From - 25°C to + 100°C	From 1 to 10 bar

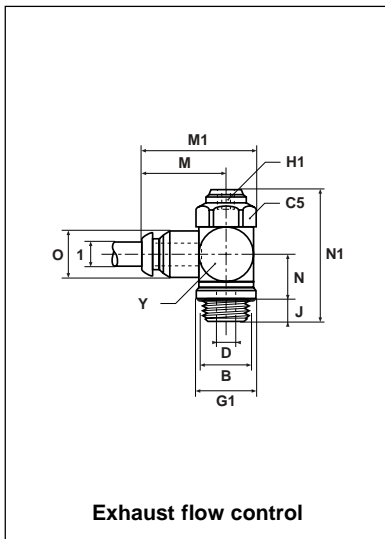
Flow adjustment

Flow control is adjusted with an Allen key.

The large number of turns from fully closed to fully open allows for precise flow control.

Pneumatic integrated function fittings

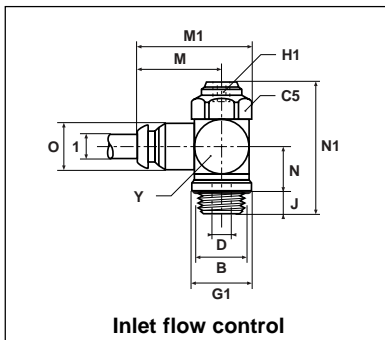
PTF4/8PB - Flow regulator with push-in connection



1	B	Part number	C5	D	G1	H1	J	M	M1	N	N1	O	Y	Weight g.
4	M5x0.8	PTF8PB4M5*	8	1.65	10.0	1.5	4	19.5	24.5	6.3	22.0	10	10	14
4	1/8	PTF4PB4-1/8	14	3.00	14.4	2.0	6	22.0	30.1	10.7	34.5	10	14	35
6	M5x0.8	PTF8PB6M5*	8	1.65	10.0	1.5	4	20.5	26.5	7.3	24.5	12	12	19
6	1/8	PTF4PB6-1/8	14	3.20	14.4	2.0	6	23.5	31.6	10.7	34.5	12	14	37
6	1/4	PTF4PB6-1/4	17	5.20	18.4	4.0	7	25.0	34.9	13.8	41.0	12	17	65
6	3/8	PTF4PB6-3/8	22	5.50	21.6	4.0	7	28.0	40.7	17.3	51.0	12	22	142
8	1/8	PTF4PB8-1/8	14	3.20	14.4	2.0	6	25.0	33.1	10.7	34.5	14	14	43
8	1/4	PTF4PB8-1/4	17	5.20	18.4	4.0	7	28.5	38.3	13.8	41.0	14	17	70
8	3/8	PTF4PB8-3/8	22	6.00	21.6	4.0	7	29.5	42.2	17.3	51.0	14	22	146
10	1/4	PTF4PB10-1/4	17	5.20	18.4	4.0	7	31.5	41.3	13.8	41.0	17	17	67
10	3/8	PTF4PB10-3/8	22	6.00	21.6	4.0	7	34.0	46.7	17.3	51.0	17	22	131
10	1/2	PTF4PB10-1/2	27	8.00	26.5	4.0	9	36.5	52.1	20.1	61.0	17	27	231
12	3/8	PTF4PB12-3/8	22	6.00	21.6	4.0	7	34.0	46.7	17.3	51.0	20	22	200
12	1/2	PTF4PB12-1/2	27	8.50	26.5	4.0	9	36.5	52.1	20.1	61.0	20	27	232

* These fittings are supplied with Nylon seal.

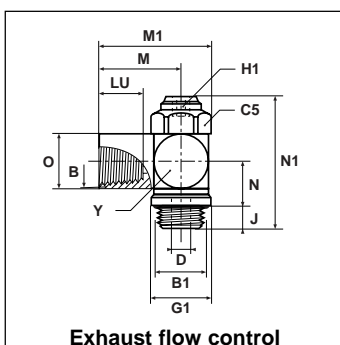
PTFA4/8PB - Flow regulator with push-in connection



1	B	Part number	C5	D	G1	H1	J	M	M1	N	N1	O	Y	Weight g.
4	M5x0.8	PTFA8PB4M5*	8	1.65	10.0	1.5	4	19.5	24.5	6.3	22.0	10	10	14
4	1/8	PTFA4PB4-1/8	14	3.00	14.4	2.0	6	22.0	30.1	10.7	34.5	10	14	35
6	M5x0.8	PTFA8PB6M5*	8	1.65	10.0	1.5	4	20.5	26.5	7.3	24.5	12	12	19
6	1/8	PTFA4PB6-1/8	14	3.20	14.4	2.0	6	23.5	31.6	10.7	34.5	12	14	37
6	1/4	PTFA4PB6-1/4	17	5.20	18.4	4.0	7	25.0	34.9	13.8	41.0	12	17	65
8	1/8	PTFA4PB8-1/8	14	3.20	14.4	2.0	6	25.0	33.1	10.7	34.5	14	14	43
8	1/4	PTFA4PB8-1/4	17	5.20	18.4	4.0	7	28.5	38.3	13.8	41.0	14	17	70

* These fittings are supplied with Nylon seal.

PTF4 - Flow regulator with threaded connection



B	B1	Part number	C5	D	G1	H1	J	LU	M	M1	N	N1	O	Y	Weight g.
1/8	1/8	PTF4-1/8	14	3.2	14.4	2	6	8.5	17.5	25.6	10.7	34.5	13.9	14	38
1/4	1/4	PTF4-1/4	17	5.2	18.4	4	7	12.5	24.5	34.3	10.7	34.5	16.9	17	85
3/8	3/8	PTF4-3/8	22	6.0	21.6	4	7	12.5	27.5	40.2	13.8	41.0	21.6	22	260
1/2	1/2	PTF4-1/2	27	8.5	26.5	4	9	14.5	33.5	49.1	17.3	51.0	26.5	27	323

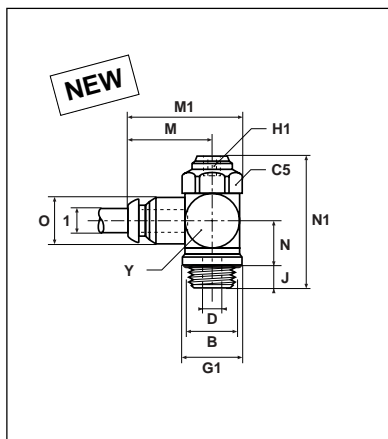
Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

Pneumatic integrated function fittings

PTF4PWB - Flow regulator with spark resistant push-in connection



1	B	Part number	C5	D	G1	H1	J	M	M1	N	N1	O	Y	Weight g.
6	1/8	PTF4PWB6-1/8	14	3.2	14.4	2.0	6	23.5	31.6	10.7	34.5	12	14	39
6	1/4	PTF4PWB6-1/4	17	5.2	18.4	4.0	7	25.0	34.9	13.8	41.0	12	17	67
8	1/8	PTF4PWB8-1/8	14	3.2	14.4	2.0	6	25.0	33.1	10.7	34.5	14	14	45
8	1/4	PTF4PWB8-1/4	17	5.2	18.4	4.0	7	28.5	38.3	13.8	41.0	14	17	70
8	3/8	PTF4PWB8-3/8	22	6.0	21.6	4.0	7	29.5	42.2	17.3	51.0	14	22	148
10	1/4	PTF4PWB10-1/4	17	5.2	18.4	4.0	7	31.5	41.3	13.8	41.0	17	17	70
10	3/8	PTF4PWB10-3/8	22	6.0	21.6	4.0	7	34.0	46.7	17.3	51.0	17	22	133
12	3/8	PTF4PWB12-3/8	22	6.0	21.6	4.0	7	34.0	46.7	17.3	51.0	20	22	202
12	1/2	PTF4PWB12-1/2	27	8.5	26.5	4.0	9	36.5	52.1	20.1	61.0	20	27	234

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For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Pneumatic integrated function fittings

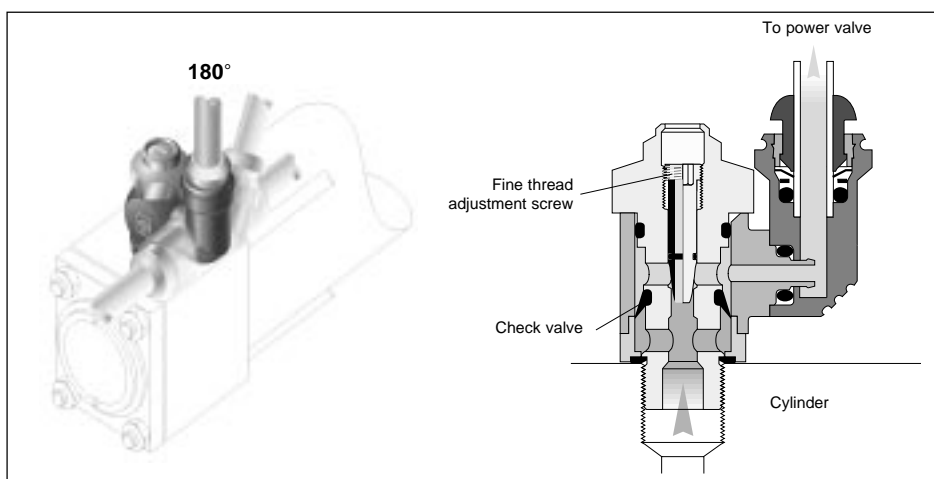
Prestoflow - Flow regulator - Swivel outlet



Principle

Prestoflow unidirection swivel flow regulators are designed for mounting directly onto the cylinder exhaust port and provide precise control of the piston rod speed. The swivel outlet is designed to allow vertical or oblique tube exit where access is restricted.

- A check valve blocks the full flow ports in the exhaust direction.
- The flow is controlled by a needle valve fitted in the regulator bolt.
- The swivel outlet can be positioned in the most suitable direction.



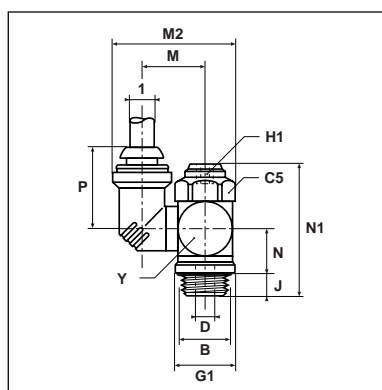
Technical features

Bolt material	Swivel elbow material	Bolt material	Bolt threads	Sealing device		Terminations	Adjustment screw	Working temperature	Working pressure
Brass black epoxy coated	High resistance polyamide	Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP	Nylon washer	1/8 - 3/8 BSPP Nitrile E. D. seal	4 - 8 mm push-in	Brass	From - 25°C to + 70°C	From 1 to 10 bar

Flow adjustment

Flow control is adjusted with an Allen key. The large number of turns from fully closed to fully open allows for precise flow control.

PTF4/8E6PB - Flow regulator with push-in connection



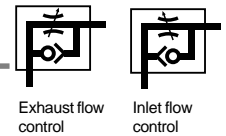
1	B	Part number	C5	D	G1	H1	J	M	M2	N	N1	P	Y	Weight g.
4	M5x0.8	PTF8E6PB4M5*	8	1.65	10.0	1.5	4	11.7	18.4	6.2	22.5	20.5	10	16
4	1/8	PTF4E6PB4-1/8	14	3.00	14.4	2.0	6	14.3	30.0	10.7	34.5	20.5	14	37
6	M5x0.8	PTF8E6PB6M5*	8	1.65	10.0	1.5	4	12.7	20.4	7.2	24.5	23.0	12	20
6	1/8	PTF4E6PB6-1/8	14	3.20	14.4	2.0	6	15.3	31.0	10.7	34.5	23.0	14	38
6	1/4	PTF4E6PB6-1/4	17	5.20	18.4	4.0	7	17.3	35.0	13.8	41.0	23.0	17	70
6	3/8	PTF4E6PB6-3/8	22	5.50	21.6	4.0	7	19.8	40.0	17.3	51.0	23.0	22	132
8	1/8	PTF4E6PB8-1/8	14	3.20	14.4	2.0	6	16.8	33.5	10.7	34.5	25.0	14	40
8	1/4	PTF4E6PB8-1/4	17	5.20	18.4	4.0	7	18.3	37.0	13.8	41.0	25.0	17	73
8	3/8	PTF4E6PB8-3/8	22	6.00	21.6	4.0	7	20.8	42.0	17.3	51.0	25.0	22	136

* These fittings are supplied with Nylon seal.

Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

Pneumatic integrated function fittings

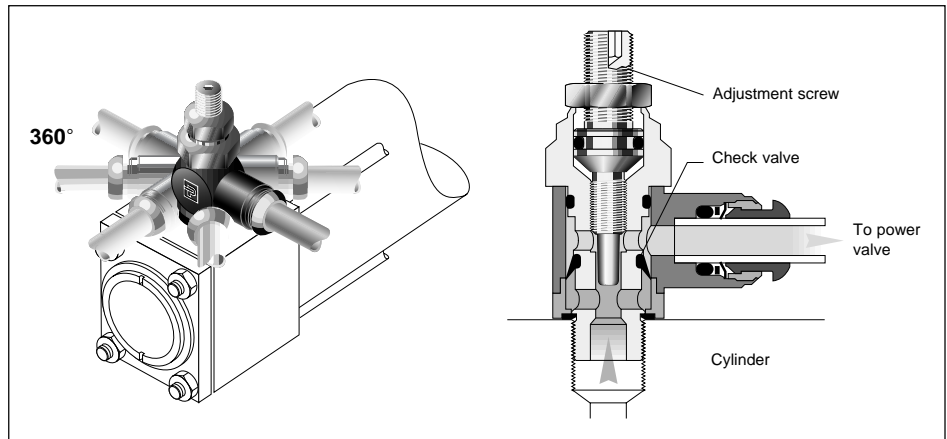
Prestoflow - Flow regulator - Locknut series



Principle

Prestoflow locknut series flow regulators are designed for mounting directly onto the cylinder ports to provide precise control of piston rod speed. When the desired flow has been set the adjusting bolt can be locked in position. These unidirectional flow regulators are available for exhaust or inlet flow control.

- A check valve blocks the full flow ports in the exhaust or inlet direction.
- The flow is controlled by a needle valve fitted in the regulator bolt.
- The adjustment screw can be locked in position to prevent tampering.



Technical features

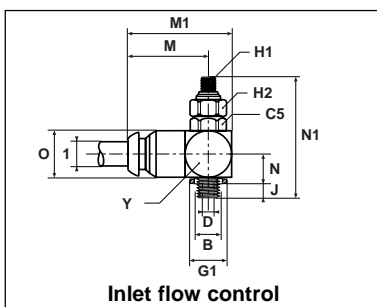
Body material	Bolt material	Locknut	Bolt thread	Sealing device		Terminations		Working temperature	Working pressure
Brass black epoxy coated	Brass	Brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	M5 thread Nylon washer	1/8 - 1/2 BSPP Nitrile E. D. seal	4 mm - 12 mm push-in connection 6mm - 12 mm compression connection	1/8 - 1/2 BSPP + M5 Female threads DIN 3852 long	From - 25°C to + 100°C	From 1 to 10 bar

Flow adjustment

Flow control is adjusted with an Allen key.

When the desired flow is set the adjusting screw can be locked using the locking nut. The large number of turns from fully closed to fully open allows for precise flow control.

PTFAL8PB - Flow regulator with push-in connection

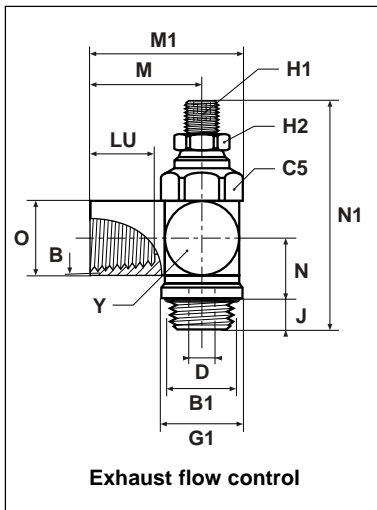


1	B	Part number	C5	D	G1	H1	H2	J	M	M1	N	N1	O	Y	Weight g.
4	M5x0.8	PTFAL8PB4M5	8	1.65	10	1.5	8	4	19.5	24.5	6.3	28.5	10	10	15

Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

Pneumatic integrated function fittings

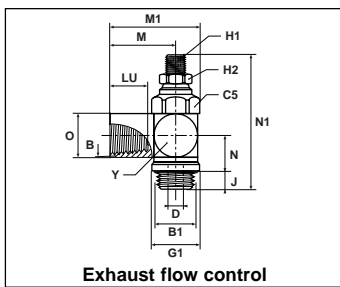
PTFL4/8PB - Flow regulator with push-in connection



1	B	Part number	C5	D	G1	H1	H2	J	M	M1	N	N1	O	Y	Weight g.
4	M5x0.8	PTFL8PB4M5*	8	1.65	10.0	1.5	8	4	19.5	24.5	6.3	28.5	10	10	15
4	1/8	PTFL4PB4-1/8	14	3.00	14.4	2.0	7	6	22.0	30.1	10.7	43.7	10	14	42
6	M5x0.8	PTFL8PB6M5*	8	1.65	10.0	1.5	8	4	20.5	26.5	7.3	31.0	12	12	19
6	1/8	PTFL4PB6-1/8	14	3.20	14.4	2.0	7	6	23.5	31.6	10.7	43.7	12	14	44
6	1/4	PTFL4PB6-1/4	17	5.20	18.4	4.0	11	7	25.0	34.9	13.8	51.8	12	17	74
6	3/8	PTFL4PB6-3/8	22	5.50	21.6	4.0	11	7	28.0	40.7	17.3	63.7	12	22	147
8	1/8	PTFL4PB8-1/8	14	3.20	14.4	2.0	7	6	25.0	33.1	10.7	43.7	14	14	64
8	1/4	PTFL4PB8-1/4	17	5.20	18.4	4.0	11	7	28.5	38.3	13.8	51.8	14	17	79
8	3/8	PTFL4PB8-3/8	22	6.00	21.6	4.0	11	7	29.5	42.2	17.3	63.7	14	22	152
10	1/4	PTFL4PB10-1/4	17	5.20	18.4	4.0	11	7	31.5	41.3	13.8	51.8	17	17	76
10	3/8	PTFL4PB10-3/8	22	6.00	21.6	4.0	11	7	34.0	46.7	17.3	63.7	17	22	138
10	1/2	PTFL4PB10-1/2	27	8.00	26.5	4.0	14	9	36.5	52.1	20.1	76.1	17	27	224
12	3/8	PTFL4PB12-3/8	22	6.00	21.6	4.0	11	7	34.0	46.7	17.3	63.7	20	22	143
12	1/2	PTFL4PB12-1/2	27	8.50	26.5	4.0	14	9	36.5	52.1	20.1	76.1	20	27	225

* These fittings are supplied with Nylon seal.

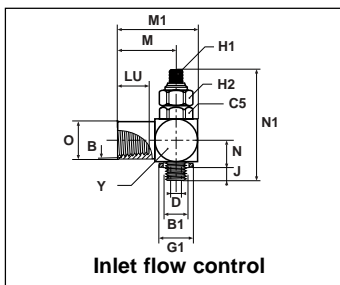
PTFL4/8 - Flow regulator with threaded connection



B	B1	Part number	C5	D	G1	H1	H2	J	LU	M	M1	N	N1	O	Y	Weight g.
M5x0.8	M5x0.8	PTFL8M5*	8	1.65	10.0	1.5	8	4	5.0	11.0	16.0	6.3	28.5	8.0	10	14
1/8	1/8	PTFL4-1/8	14	3.20	14.4	2.0	7	6	8.5	17.5	25.6	10.7	43.7	13.9	14	15
1/4	1/4	PTFL4-1/4	17	5.20	18.4	4.0	11	7	12.5	24.5	34.3	10.7	51.8	16.9	17	94
3/8	3/8	PTFL4-3/8	22	6.00	21.6	4.0	11	7	12.5	27.5	40.2	13.8	63.7	21.6	22	266
1/2	1/2	PTFL4-1/2	27	8.50	26.5	4.0	14	9	14.5	33.5	49.1	17.3	76.1	26.5	27	316

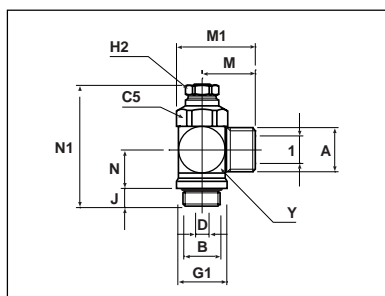
* These fittings are supplied with Nylon seal.

PTFAL8 - Flow regulator with threaded connection



B	B1	Part number	C5	D	G1	H1	H2	J	LU	M	M1	N	N1	O	Y	Weight g.
M5x0.8	M5x0.8	PTFAL8M5	8	1.65	10	1.5	8	4	5	11	16	6.3	28.5	8	10	14

PTFL4COB - Flow regulator with compression connection



1	A	B	Part number	C5	D	G1	H2	J	M	M1	N	N1	Y	Weight g.
6	M10x1	1/8	PTFL4COB6-1/8	14	3.2	14.0	7	6	14.5	22.1	10.8	37.3	14	38
8	M12x1	1/8	PTFL4COB8-1/8	14	3.2	14.0	7	6	15.7	23.4	10.8	37.3	14	40
10	M16x1.5	1/4	PTFL4COB10-1/4	17	5.2	18.3	11	7	19.3	28.6	13.8	37.7	17	72
14	M20x1.5	3/8	PTFL4COB14-3/8	22	6.0	22.0	11	7	23.0	35.1	17.4	54.2	22	117
18	M24x1.5	1/2	PTFL4COB18-1/2	27	8.0	27.0	14	9	26.9	41.8	20.2	65.2	27	184

* These fittings can be assembled with Push-Lok fittings 3FB82 series (see page O27).

Pneumatic integrated function fittings

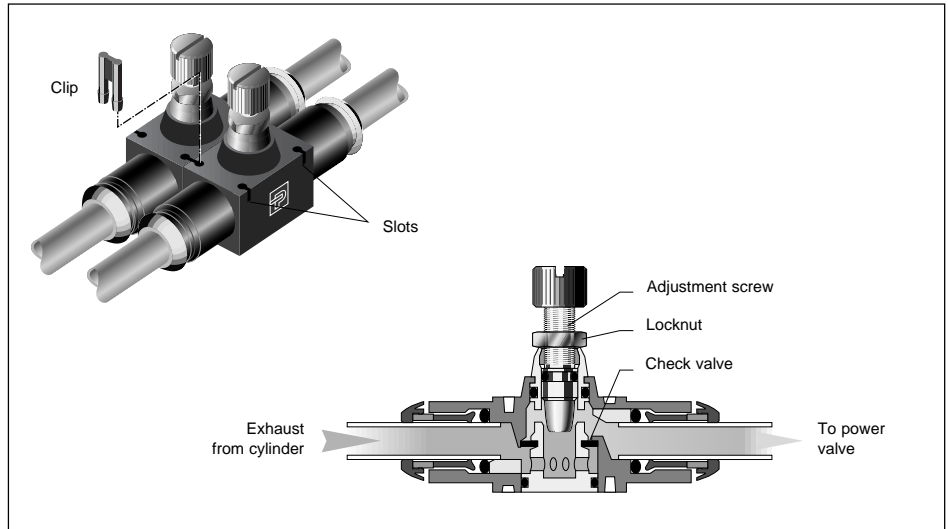
Prestoflow - Flow regulator - In-line series



Principle

Prestoflow unidirection in-line flow regulators are designed to be used directly in the compressed air line when cylinder access is difficult or where another function fitting is already connected to the cylinder port. The fine thread knurled adjuster provides precise control of piston rod speed. When the desired flow has been set the adjusting bolt can be locked in position.

- A check valve blocks the full flow ports in the exhaust direction.
- The flow is controlled by a needle valve fitted in the regulator body.
- These regulators can be :
 - mounted using the 4 fixing holes
 - assembled into banks using the joining clips included.



Technical features

Body material	Cartridge material	Adjustment and locking nut		Terminations	Working temperature	Working pressure
		Standard adjustment	Ultrafine adjustment			
High resistance polyamide	Brass	Brass	Duralumin	4 mm - 12 mm push-in	From - 15°C to + 70°C	From 1 to 10 bar

Flow adjustment

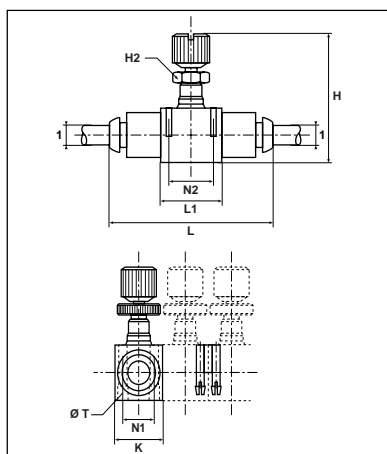
Flow control is adjusted with a screwdriver or manually with the knurled nut.

When the desired flow is set the adjusting screw can be locked using the locking nut.

The large number of turns from fully closed to fully open allows for precise flow control.

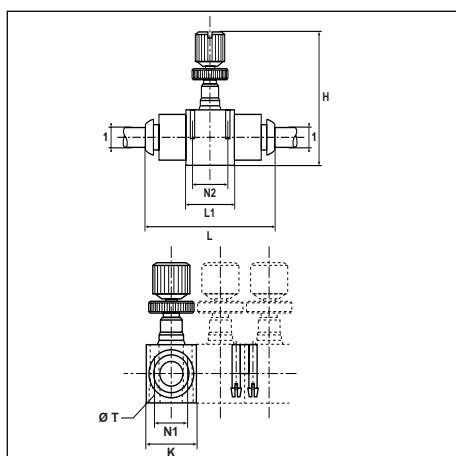
Pneumatic integrated function fittings

PTFIPK - Flow regulator with push-in connection



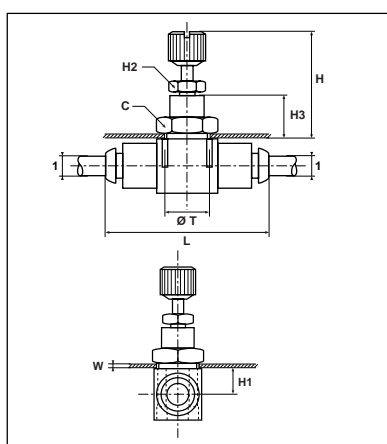
1	Part number	H		H2	K	L	L1	N1	N2	T dia.	Weight g.
		Min.	Max.								
4	PTFIPK4	29.5	33.5	5	12.0	39.0	15	8.0	11.0	2.2	12
6	PTFIPK6	39.5	44.5	8	17.0	55.0	23	11.0	17.0	3.2	30
8	PTFIPK8	44.0	50.0	11	18.5	61.5	26	12.5	20.0	3.2	47
10	PTFIPK10	52.0	61.0	14	24.0	77.0	33	16.0	26.0	4.2	103
12	PTFIPK12	57.5	67.5	14	28.0	87.0	35	20.0	27.5	4.2	138

PTFMIPK - Flow regulator with push-in connection - Ultrafine adjustment



1	Part number	H		K	L	L1	N1	N2	T dia.	Weight g.
		Min.	Max.							
4	PTFMIPK4	34	37.0	12	39	15	8	11	2.2	13
6	PTFMIPK6	42	45.5	17	54	23	11	17	3.2	29

PTFIWPK - Flow regulator with push-in connection - Panel



1	Part number	C	H		H1	H2	H3	L	T dia.	W Max.	Weight g.
			Min.	Max.							
4	PTFIWPK4*	14	21.5	25.5	6.5	-	11.0	39.0	10.5	6	12
6	PTFIWPK6*	19	27.5	32.5	7.5	-	13.5	54.0	16.5	7	30
8	PTFIWPK8	24	28.5	34.5	9.0	11	13.5	60.5	18.5	7	47
10	PTFIWPK10	30	29.5	38.5	11.5	14	13.5	76.0	24.5	7	103
12	PTFIWPK12	32	32.0	42.0	12.5	14	15.5	86.0	27.5	8	138

* Ultrafine adjustment

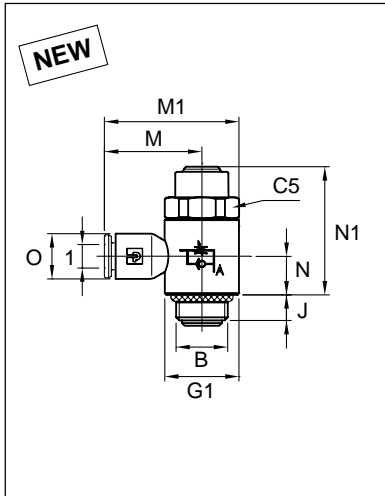
Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

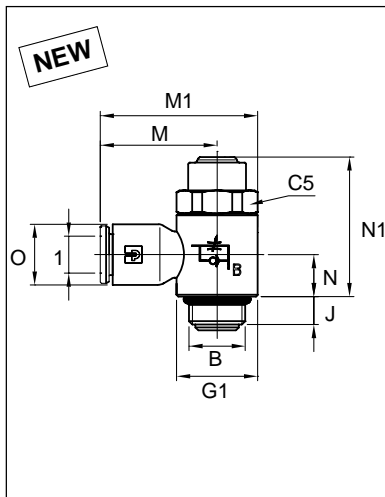
Pneumatic integrated function fittings

PTFC4/8PK - compact exhaust flow control - BSPP/metric



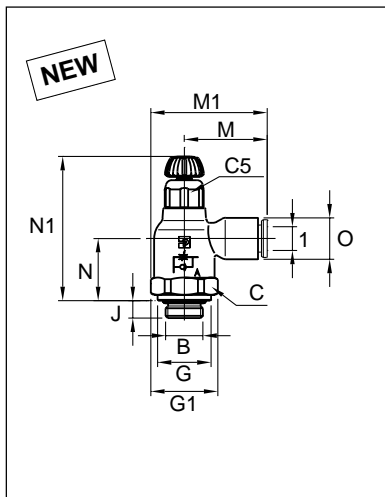
1	B	Part Number	C5	G1	J	M	M1	N	N1	O	Weight g.
4	M5	PTFC8PK4-M5	8	9.5	4.0	18.5	23.5	7.5	17.0	11.0	7
4	1/8	PTFC4PK4-1/8	13	14.0	5.0	19.0	25.5	7.5	24.0	8.5	17
6	M5	PTFC8PK6-M5	8	9.5	4.0	18.5	23.5	7.5	17.0	11.0	17
6	1/8	PTFC4PK6-1/8	13	14.0	5.0	20.0	27.0	7.5	24.0	10.5	19
6	1/4	PTFC4PK6-1/4	17	18.5	8.0	22.0	31.0	9.5	26.0	10.5	34
8	1/8	PTFC4PK8-1/8	13	14.0	5.0	25.0	32.0	9.0	24.0	13.5	20
8	1/4	PTFC4PK8-1/4	17	18.5	8.0	27.0	36.0	9.5	26.0	13.5	35
8	3/8	PTFC4PK8-3/8	20	22.5	7.0	28.5	40.0	11.0	37.0	13.5	42
10	1/4	PTFC4PK10-1/4	17	18.5	8.0	29.0	38.0	10.5	26.0	16.0	38
10	3/8	PTFC4PK10-3/8	20	22.5	7.0	30.5	42.0	11.0	37.0	16.0	43

PTFAC4/8PK - compact inlet flow control - BSPP/metric



1	B	Part Number	C5	G1	J	M	M1	N	N1	O	Weight g.
4	M5	PTFAC8PK4-M5	8	9.5	4.0	18.5	23.5	7.5	17.0	11.0	7
4	1/8	PTFAC4PK4-1/8	13	14.0	5.0	19.0	25.5	7.5	24.0	8.5	17
6	M5	PTFAC8PK6-M5	8	10.0	4.0	18.5	23.5	7.5	17.0	11.0	17
6	1/8	PTFAC4PK6-1/8	13	14.0	5.0	20.0	27.0	7.5	24.0	10.5	19
6	1/4	PTFAC4PK6-1/4	17	18.5	8.0	22.0	31.0	9.5	26.0	10.5	34
8	1/8	PTFAC4PK8-1/8	13	14.0	5.0	25.0	32.0	9.0	24.0	13.5	20
8	1/4	PTFAC4PK8-1/4	17	18.5	8.0	27.0	36.0	9.5	26.0	13.5	35
8	3/8	PTFAC4PK8-3/8	20	22.5	7.0	28.5	40.0	11.0	37.0	13.5	42
10	1/4	PTLAC4PK10-1/4	17	18.5	8.0	29.0	38.0	10.5	26.0	16.0	38
10	3/8	PTFAC4PK10-3/8	20	22.5	7.0	30.5	42.0	11.0	37.0	16.0	43

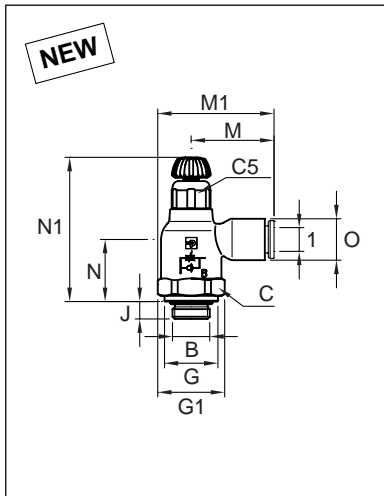
PTFLC4PK - compact exhaust flow control - BSPP



1	B	Part Number	C	C5	G	G1	J	M	M1	N	N1		O	Weight g.
											maxi	mini		
4	1/8	PTFLC4PK4-1/8	16	10	14.0	17.5	5.0	21.5	30.0	16.0	44.0	37.5	11.0	21
6	1/8	PTFLC4PK6-1/8	16	10	14.0	17.5	5.0	21.5	30.5	16.0	44.0	37.5	11.0	21
6	1/4	PTFLC4PK6-1/4	16	10	-	17.5	6.0	21.5	30.5	14.5	42.5	36.5	11.0	21
8	1/8	PTFLC4PK8-1/8	19	14	14.0	21.0	5.0	27.0	37.5	18.0	48.0	41.5	13.5	35
8	1/4	PTFLC4PK8-1/4	19	14	17.0	21.0	5.5	27.0	37.5	18.5	48.0	41.5	13.5	37
8	3/8	PTFLC4PK8-3/8	19	14	-	22.0	5.5	27.0	37.5	16.5	45.0	40.0	13.5	37
10	1/4	PTFLC4PK10-1/4	23	17	17.0	25.0	5.5	31.0	43.5	20.0	54.0	45.5	16.0	57
10	3/8	PTFLC4PK10-3/8	23	17	22.0	25.0	5.5	31.0	43.5	20.0	54.0	45.5	16.0	59
12	1/2	PTFLC4PK12-1/2	24	17	-	26.0	7.0	35.0	49.0	20.0	54.0	45.5	19.0	65

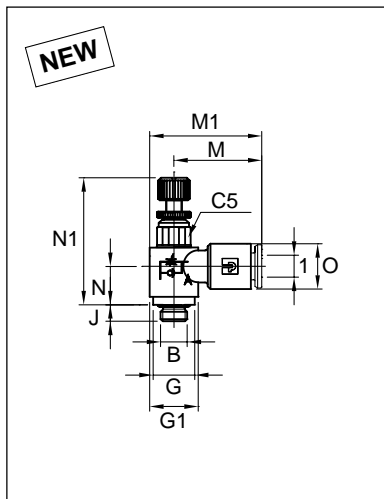
Pneumatic integrated function fittings

PTFLAC4PK - compact inlet flow control - BSPP



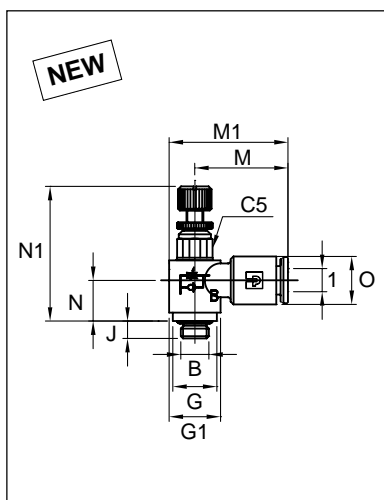
1	B	Part Number	C	C5	G	G1	J	M	M1	N	N1		O	Weight g.
											maxi	mini		
4	1/8	PTFLAC4PK4-1/8	16	10	14.0	17.5	5.0	21.5	30.0	16.0	44.0	37.5	11.0	21
6	1/8	PTFLAC4PK6-1/8	16	10	14.0	17.5	5.0	21.5	30.5	16.0	44.0	37.5	11.0	21
6	1/4	PTFLAC4PK6-1/4	16	10	-	17.5	6.0	21.5	30.5	14.5	42.5	36.5	11.0	21
8	1/8	PTFLAC4PK8-1/8	19	14	14.0	21.0	5.0	27.0	37.5	18.0	48.0	41.5	13.5	35
8	1/4	PTFLAC4PK8-1/4	19	14	17.0	21.0	5.5	27.0	37.5	18.5	48.0	41.5	13.5	37
8	3/8	PTFLAC4PK8-3/8	19	14	-	22.0	5.5	27.0	37.5	16.5	45.0	40.0	13.5	37
10	1/4	PTFLAC4PK10-1/4	23	17	17.0	25.0	5.5	31.0	43.5	20.0	54.0	45.5	16.0	57
10	3/8	PTFLAC4PK10-3/8	23	17	22.0	25.0	5.5	31.0	43.5	20.0	54.0	45.5	16.0	59
12	1/2	PTFLAC4PK12-1/2	24	17	-	26.0	7.0	35.0	49.0	20.0	54.0	45.5	19.0	65

PTFLM8PK - micro exhaust flow control - metric



1	B	Part Number	C5	G	G1	J	M	M1	N	N1		O	Weight g.
										maxi	mini		
4	M5	PTFLM8PK4 M5	6	8.0	9.0	3.0	16.5	21.0	7.0	27.0	24.0	8.5	8
6	M5	PTFLM8PK6 M5	6	8.0	9.0	3.0	18.0	22.5	7.0	27.0	24.0	11.0	10

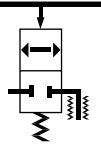
PTFALM8PK - micro inlet flow control - metric



1	B	Part Number	C5	G	G1	J	M	M1	N	N1		O	Weight g.
										maxi	mini		
4	M5	PTFALM8PK4-M5	6	8.0	9.0	3.0	16.5	21.0	7.0	27.0	24.0	8.5	8
6	M5	PTFALM8PK6-M5	6	8.0	9.0	3.0	18.0	22.5	7.0	27.0	24.0	11.0	10

Pneumatic integrated function fittings

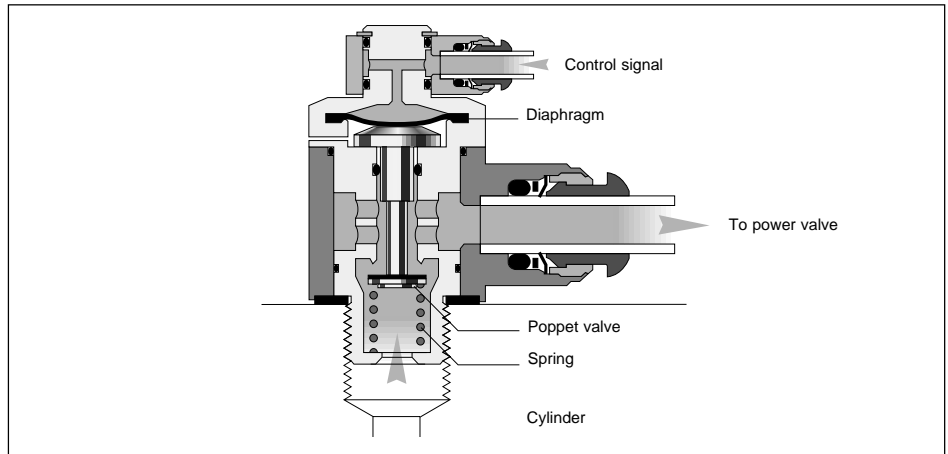
Prestobloc - Pilot-operated blocking fittings



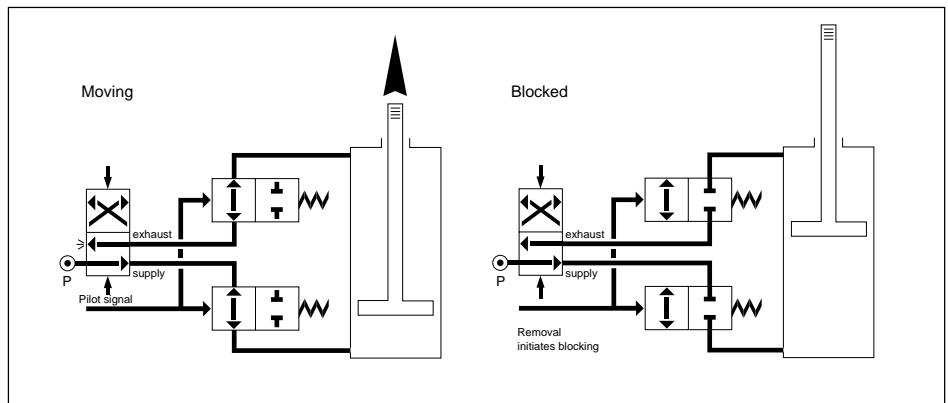
Principle

Prestobloc pilot-operated blocking fittings are designed for mounting directly to the cylinder ports. Available with push-in or threaded terminations, these function fittings permit safe and immediate stopping of the piston rod by blocking the cylinder supply and exhaust.

- Pilot operated diaphragm maintains full flow when pilot signal is present.
- Spring closes the poppet valve locking air in the cylinder when the pilot signal is removed.
- Prestobloc fittings used in conjunction with PrestoFlow flow regulators are mounted on inlet and outlet ports.
- Pilot signal should be independent from the control valve.



Prestobloc fitting



Blocking principle

Technical features

Body material	Bolt material	Bolt thread	Sealing device	Terminations		Pilot termination	Working temperature	Working pressure
				6mm to 12 mm push-in	1/4 to 1/2 BSPP female thread			
Zinc alloy epoxy coated	Brass	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon washer	6mm to 12 mm push-in	1/4 to 1/2 BSPP female thread	4 mm push-in	From - 15°C to + 60°C	From 0 to 10 bar

Operating characteristics

Bolt size	Pilot operating pressure (100% flow)				Pilot release pressure				Max. input flow at 6 bar
	2 bar	4 bar	6 bar	8 bar	2 bar	4 bar	6 bar	8 bar	
1/8"	3.10	3.50	4.00	4.50	0.80	1.0	1.2	1.40	500 l/mn ANR
1/4"	3.10	3.50	4.00	4.50	0.80	1.0	1.2	1.40	650 l/mn ANR
3/8"	2.45	2.75	3.05	3.40	1.40	1.7	2.0	2.35	1300 l/mn ANR
1/2"	3.05	3.40	3.70	4.05	1.75	2.1	2.4	2.80	2300 l/mn ANR

Pneumatic integrated function fittings

Applications

Safety stop

Prevents descent under load in the event of power failure

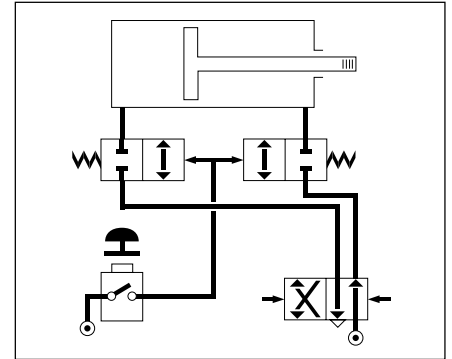
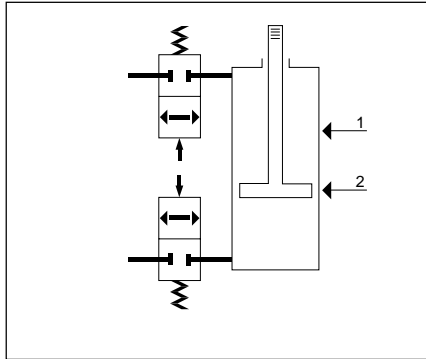
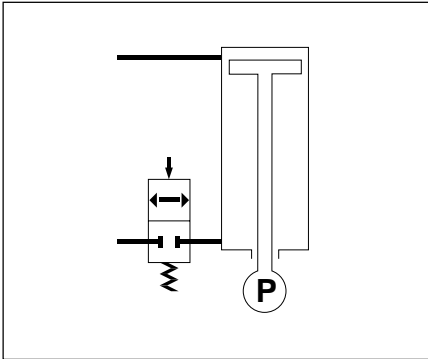
Stroke control

Stops the piston in various positions for conveying and handling applications.

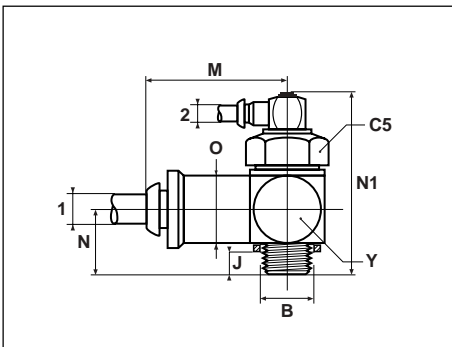
Safety locks

Safety guards for assembly and punch presses.

Combination with an emergency switch : restarting the cylinder after resetting the emergency switch.

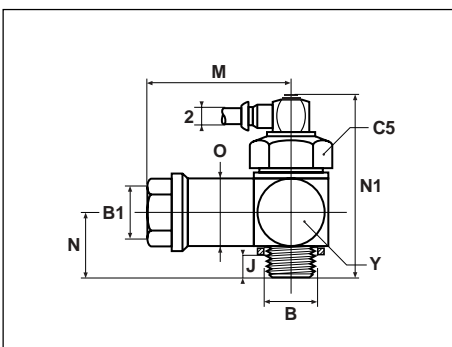


PWB-A - Blocker with push-in connection



1	B	2	Part number	C5	J	M	N	N1	O	Y	Weight g.
6	1/8	4	PWB-A1468	21	7.0	39	24	61.5	20	21	145
6	1/4	4	PWB-A1469	21	8.5	39	26	63.0	22	21	150
8	1/4	4	PWB-A1489	21	8.5	39	26	63.0	22	21	150
8	3/8	4	PWB-A1483	27	11.0	50	25	64.0	27	24	180
10	3/8	4	PWB-A1493	27	11.0	50	25	64.0	27	24	180
12	1/2	4	PWB-A1412	30	12.0	66	36	78.0	31	33	495

PWB-A - Blocker with threaded connection



B	B1	2	Part number	C5	J	M	N	N1	O	Y	Weight g.
1/8	1/4	4	PWB-A1898	21	7.0	44	24	65.6	20	20	175
1/4	1/4	4	PWB-A1899	21	8.5	44	26	63.0	20	20	175

Push-in, Ø 4 mm

B	B1	2	Part number	C5	J	M	N	N1	O	Y	Weight g.
3/8	3/8	4	PWB-A1833	24	11.0	56	25	64.0	26	26	190
1/2	1/2	4	PWB-A1822	30	12.0	63	36	78.0	31	31	475

*Available with Ø 4 mm push-in connection : add 4 to the end of the order code - example **PWB-A18334**

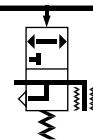
Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

Pneumatic integrated function fittings

Prestoload - Pilot operated unloading fittings

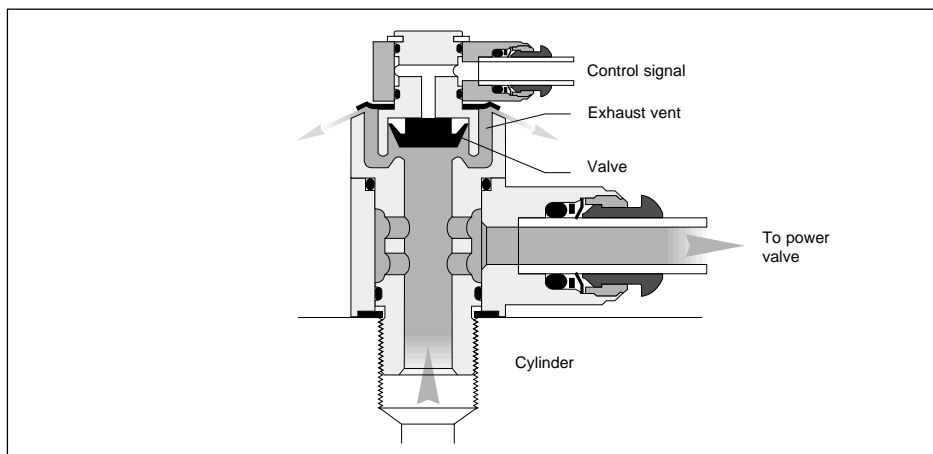


Principle

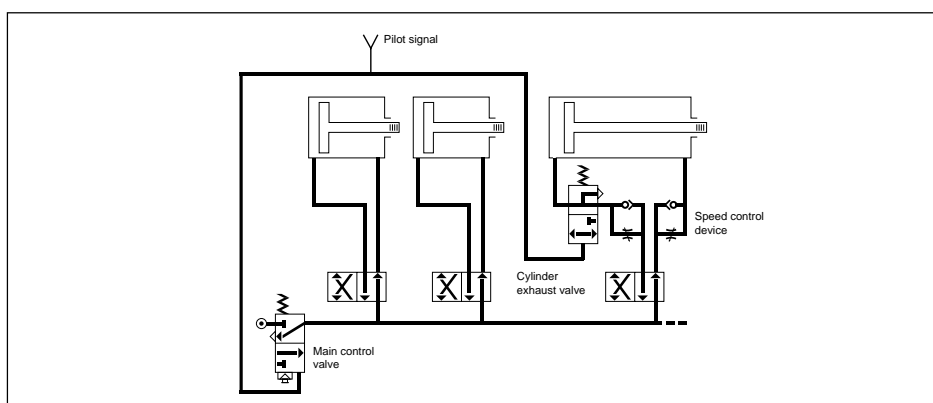
Prestoload pilot operated unloading fittings are designed for mounting directly to the cylinder ports. Available with push-in or threaded terminations these function fittings allow the rapid exhaust of the cylinder chamber when the pilot signal is removed.

Operation

- Under normal conditions the pilot pressure keeps the valve closed.
- When the pilot pressure is removed the pressure in the cylinder lifts the valve allow a rapid exhaust of air through the vent.



- Mounted directly onto the cylinder port the Prestoload fitting enhances the cut off action of the main control valve of the pneumatic system.
- Prestoload can be used in conjunction with flow regulators for piston speed adjustment. In this case the air exhaust speed is dependent upon the cross section of the restrictor.



Principle of exhaust air from a pneumatic cylinder

Technical features

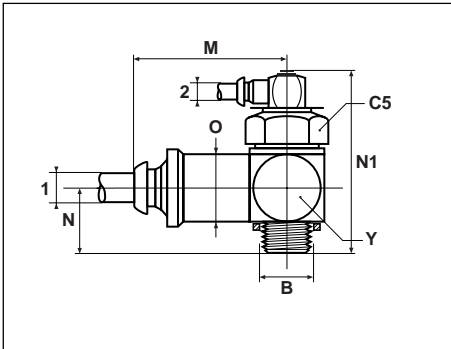
Body material	Bolt material	Bolt thread	Sealing device	Terminations		Pilot Termination	Working temperature	Working pressure
Zinc alloy epoxy coated	Brass	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon washer	6 mm - 12 mm push-in	1/4 - 1/2 BSPP female thread	4 mm push-in	From - 15°C to + 60°C	From 1 to 10 bar

Operating characteristics

Bolt size	Pilot operating pressure			Pilot release pressure			Max output flow at 6 bar
	3 bar	6 bar	8 bar	3 bar	6 bar	8 bar	
1/8"	1.75	3.35	4.5	0.95	2.05	2.75	1450 l/mn ANR
1/4"	2.35	4.30	5.9	0.95	2.05	2.75	2800 l/mn ANR
3/8"	2.00	4.10	4.8	0.90	2.00	3.00	3950 l/mn ANR
1/2"	1.40	3.35	5.0	0.90	2.20	3.50	4750 l/mn ANR

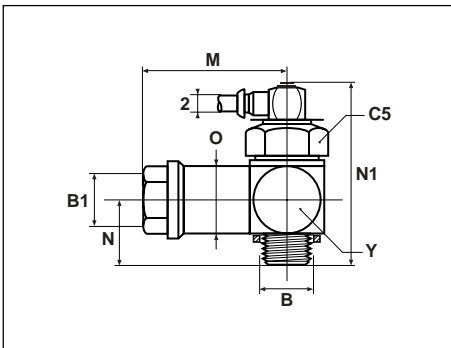
Pneumatic integrated function fittings

PWE-A - Unloader with push-in connection



1	B	2	Part number	C5	M	N	N1	O	Y	Weight g.
6	1/8	4	PWE-A1468	24	43	20	61	22	24	125
8	1/4	4	PWE-A1489	24	43	21	62	22	24	150
10	3/8	4	PWE-A1493	27	55	26	72	27	27	180
12	1/2	4	PWE-A1412	27	63	36	84	31	33	495

PWE-A - Unloader with threaded connection



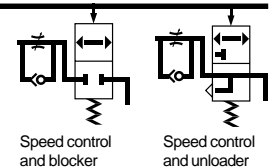
B	B1	2	Part number	C5	M	N	N1	O	Y	Weight g.
1/8	1/4	4	PWE-A1898	24	43	20	61	22	24	130
1/4	1/4	4	PWE-A1899	24	43	21	62	22	24	160
3/8	3/8	4	PWE-A1833	27	55	26	72	27	27	190
1/2	1/2	4	PWE-A1822	27	63	36	84	31	33	475

Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

Availability of the items : please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Pneumatic integrated function fittings

Prestotwin - Combined flow - blocking - unloading valves



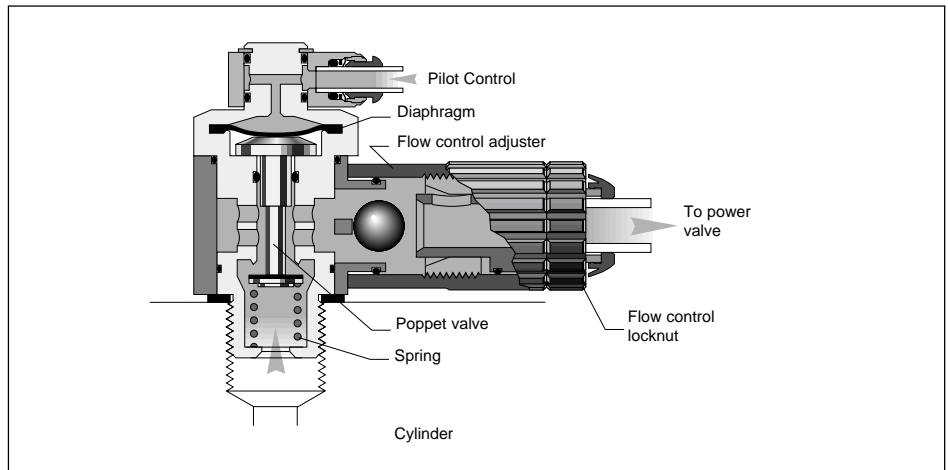
Principle

Prestotwin are multi-function fittings combining flow control and blocking or flow control and unloading. This avoids the requirement for two function fittings offering a compact solution with significant space saving. They meet the requirements for a safety fitting and incorporate the facility to accurately control the piston rod speed.

Operation

PBVF4PK
Flow regulator + blocker

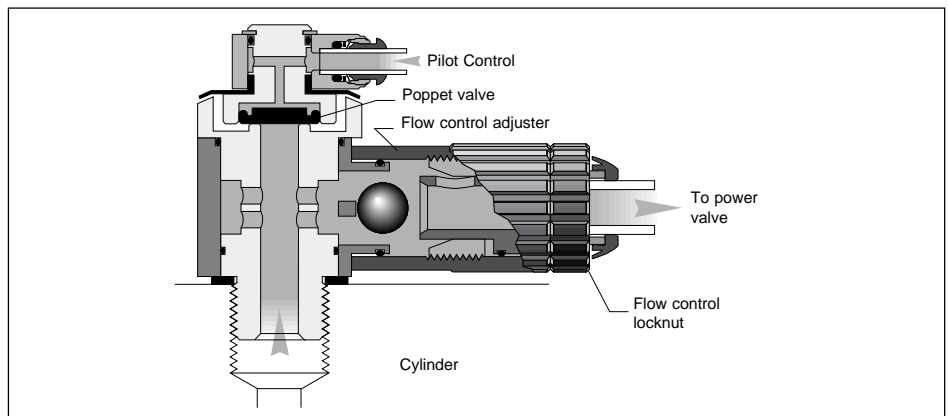
- The pilot signal acting on the diaphragm keeps the poppet valve open. When the pilot signal is removed the spring closes the poppet valve.
- Flow control is obtained by the adjustment of the rotating barrel directing air through the orifices of the flow control adjuster.
- The flow control locknut ensures the optimum setting is maintained.



Combined flow control and blocker

PSPF4PK
Flow regulator + unloader

- The pilot signal operating on the poppet valve keeps it closed. When the pilot signal is removed the cylinder air exhausts through the vent.
- Flow control is obtained by the adjustment of the rotating barrel directing air through the orifices of the flow control adjuster.
- The flow control locknut ensures the optimum setting is maintained.



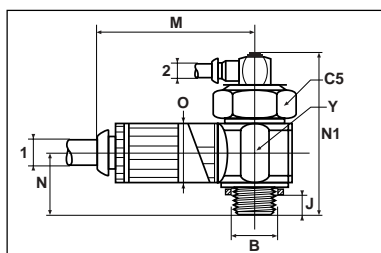
Combined flow control and unloader

Technical features

Body material	Bolt material	Bolt thread	Sealing device	Termination	Pilot termination	Flow control adjustment	Flow control locking	Working temperature	Working pressure	
									PBVF4PK	PSPF4PK
Zinc alloy epoxy coated	Brass	1/8BSPP 1/4BSPP 3/8BSPP	Nylon washer	4mm - 8mm push-in	4mm push-in	rotating barrel	knurled locknut	From -15 °C to +60 °C	From 1 to 10 bar	From 0 to 10 bar

Pneumatic integrated function fittings

PWR-HB - Flow regulator + Blocker with push-in connection

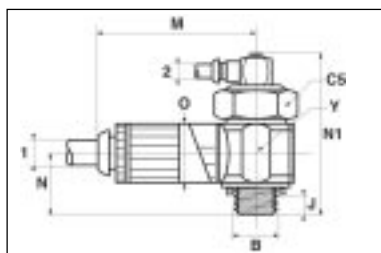


1	B	2	Part number	C5	J	M	N	N1	O	Y	Weight g.
4	1/8	4	PWR-HB1448	21	7.0	47	24.0	61.5	22.5	21	135
6	1/8	4	PWR-HB1468	21	7.0	47	24.0	61.5	22.5	21	135
6	1/4	4	PWR-HB1469	21	8.5	47	26.0	63.0	22.5	21	130
8	1/4	4	PWR-HB1489	21	8.5	47	26.0	63.0	22.5	21	130
8	3/8	4	PWR-HB1483	27	11.0	60	29.0	73.0	29.0	28	180
10	3/8	4	PWR-HB1493	27	11.0	60	29.0	73.0	29.0	28	180

Operating characteristics

Part number	Pilot operating pressure				Pilot release pressure			
	2 bar	4 bar	6 bar	8 bar	2 bar	4 bar	6 bar	8 bar
PWR-HB 1448	3.10	3.50	4.00	4.50	0.80	1.0	1.20	1.4
PWR-HB 1468	3.10	3.50	4.00	4.50	0.80	1.0	1.20	1.4
PWR-HB 1469	3.10	3.50	4.00	4.50	0.80	1.0	1.20	1.4
PWR-HB 1489	3.10	3.50	4.00	4.50	0.80	1.0	1.20	1.4
PWR-HB 1483	2.45	2.75	3.05	3.4	1.4	1.7	2.00	2.35
PWR-HB 1493	2.45	2.75	3.05	3.4	1.4	1.7	2.00	2.35

PWR-HE - Flow regulator + Unloader with push-in connection



1	B	2	Part number	C5	J	M	N	N1	O	Y	Weight g.
4	1/8	4	PWR-HE1448	24	8	47	21.5	67	22.5	21	100
6	1/8	4	PWR-HE1468	24	8	47	21.5	67	22.5	21	100
6	1/4	4	PWR-HE1469	24	10	47	23.5	69	22.5	21	100
8	1/4	4	PWR-HE1489	24	10	47	23.5	69	22.5	21	100
8	3/8	4	PWR-HE1483	27	11	60	29.0	73	29.0	28	180
10	3/8	4	PWR-HE1493	27	11	60	29.0	73	29.0	28	180

Operating characteristics

Part number	Pilot operating pressure			Pilot release pressure		
	3 bar	6 bar	8 bar	3 bar	6 bar	8 bar
PWR-HE 1448	1.75	3.35	4.5	0.95	2.05	2.75
PWR-HE 1468	1.75	3.35	4.5	0.95	2.05	2.75
PWR-HE 1469	2.35	4.30	5.9	0.95	2.05	2.75
PWR-HE 1489	2.35	4.30	5.9	0.95	2.05	2.75
PWR-HE 1483	2.00	4.10	4.8	0.90	2.00	3.00
PWR-HE 1493	2.00	4.10	4.8	0.90	2.00	3.00

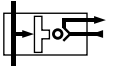
Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

Pneumatic integrated function fittings

Prestosensor - Pressure sensor fittings

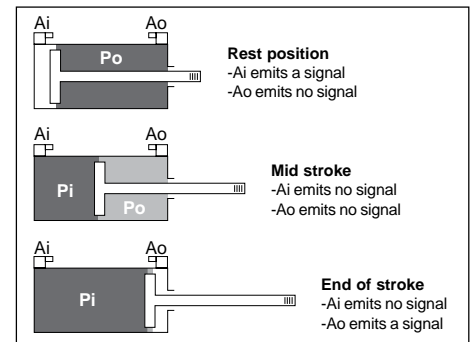
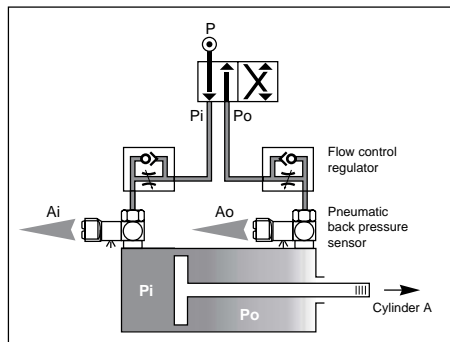
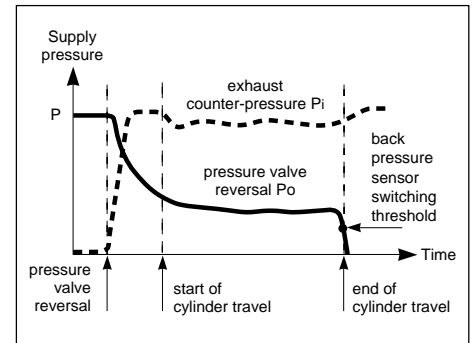
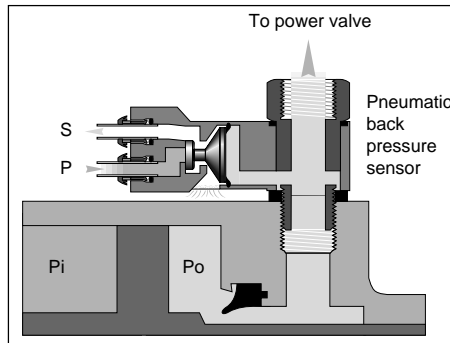


Principle

Prestosensor fittings are designed for direct mounting onto the cylinder. These sensors detect end of stroke travel by the variation in internal operating pressure. The sensing can be pneumatic, electric or electronic to suit the application. These fittings remove the need for mechanical position switches.

Operation

- Mounting to cylinder port
- Pressure sensors should be mounted in conjunction with flow regulators
- Pressure sensing on diaphragm valve.



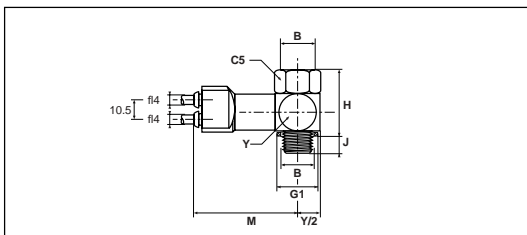
Mounting of pressure sensors

Signals from pressure sensors

Technical features

Body material		Bolt material	Bolt threads	Sealing device	Terminations			Working temperature	Working pressure
Pneumatic output version	Electric and electronic version				Pneumatic output version	Electric output version	Electronic output version		
Zinc alloy and thermoplastic	Thermoplastic	M5: bichromate steel 1/8 to 1/2 BSPP: brass	M5 1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon washer	4 mm Push-in or M5 female thread	3 core cable 0.5 mm ² 2 metres long	3 core cable 0.1 mm ² 2 metres long	From - 15°C to + 60°C	From 3 to 8 bar

PTP4/8PB - Pressure sensor - Pneumatic output with push-in connection

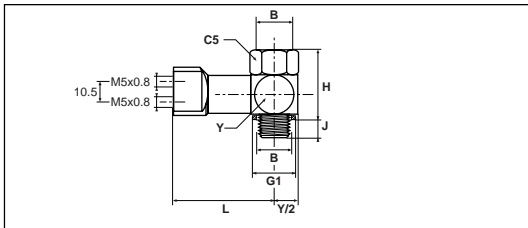


B	Part number	C5	G1	H	J	M	Y	Weight g.
M5x0.8	PTP8PB4M5	8	3.5	16	8.0	43.5	11.0	25
1/8	PTP4PB4-1/8	14	6.0	23	14.0	45.0	16.0	82
1/4	PTP4PB4-1/4	17	7.0	28	17.5	47.0	19.5	113
3/8	PTP4PB4-3/8	22	8.0	29	21.0	49.5	23.5	128
1/2	PTP4PB4-1/2	27	10.0	30	25.5	53.5	31.5	159

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

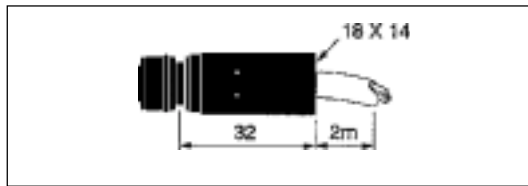
Pneumatic integrated function fittings

PTP4/8 - Pressure sensor - Pneumatic output with M5 threaded connection



B	Part number	C5	G1	H	J	L	Y	Weight g.
M5x0.8	PTP8M5	8	3.5	16	8.0	39.0	11.0	28
1/8	PTP4-1/8	14	6.0	23	14.0	40.5	16.0	87
1/4	PTP4-1/4	17	7.0	28	17.5	42.5	19.5	117
3/8	PTP4-3/8	22	8.0	29	21.0	45.0	23.5	172
1/2	PTP4-1/2	27	10.0	30	25.5	48.5	31.0	153

PWS-M - Plug-in sensor - Electrical output



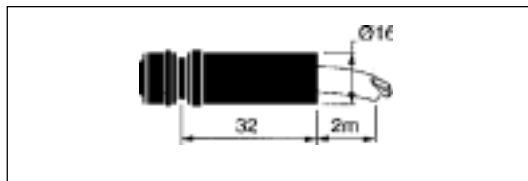
Level of IP-40 protection

Part number	Weight g.	Output function	Output connection	Output characteristics
PWS-M1012	0.08	Electrical ~ Ve = 3 A	3 wires 0.5 mm ² long. 2 m	Contact OF 12 to 230 V ~ /10 VA 12 to 48 VCC/-5W

Technical specification of model PWS-M : breaking pressure = 0.5 bar



PWS-E - Plug in sensor - Electronic output



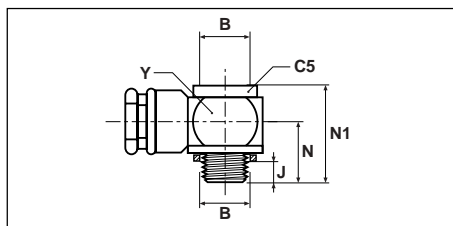
Level of IP-67 protection

Part number	Weight g.	Output function	Output connection	Output characteristics
PWS-E101	0.07	Type NC	Electronic	3 wires PNP
PWS-E111	0.07	Type NO	Electronic	0.1 mm ² 10/30 V-CC 75 mA

Technical specification of model PWS-E : Pilot release pressure = 0.5 bar

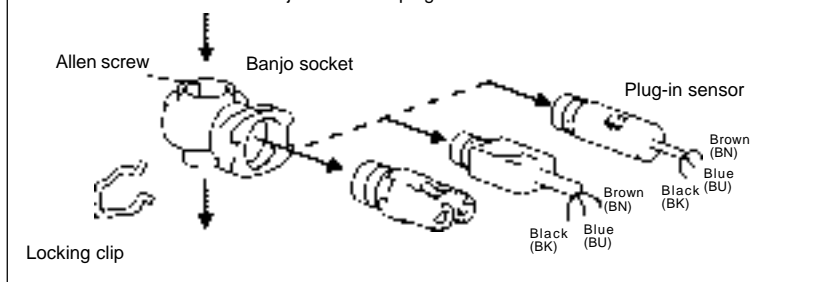


PWS-B - Banjo socket (with sensor locking clip)



B	Part number	C5	J	N	N1	Y	Weight g.	Tool required
M5x0.8	PWS-B155	8	5	18	28	11	0.04	Flat spanner 8 mm
1/8	PWS-B188	6	8	18	28	16	0.04	Allen key 5 mm
1/4	PWS-B199	8	10	18	28	21	0.05	Allen key 8 mm
3/8	PWS-B133	10	11	22	32	28	0.07	Allen key 10 mm
1/2	PWS-B122	12	12	26	38	33	0.11	Allen key 12 mm

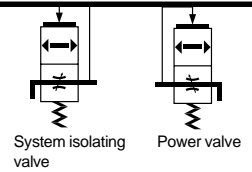
All black pressure sensors are a combination of two distinct parts : a banjo socket + a plug-in sensor.



New part number	Old part number
PWS-M1012 + PWS-B155	PTZ8M5
PWS-M1012 + PWS-B188	PTZ4-1/8
PWS-M1012 + PWS-B199	PTZ4-1/4
PWS-M1012 + PWS-B133	PTZ4-3/8
PWS-M1012 + PWS-B122	PTZ4-1/2
PWS-E101 + PWS-B155	PTE8M5
PWS-E101 + PWS-B188	PTE4-1/8
PWS-E101 + PWS-B199	PTE4-1/4
PWS-E101 + PWS-B133	PTE4-3/8
PWS-E101 + PWS-B122	PTE4-1/2
PWS-E111 + PWS-B155	PTE8M5C
PWS-E111 + PWS-B188	PTE4-1/8C
PWS-E111 + PWS-B199	PTE4-1/4C
PWS-E111 + PWS-B133	PTE4-3/8C
PWS-E111 + PWS-B122	PTE4-1/2C

Pneumatic integrated function fittings

Prestostart - Pneumatic slow start fittings

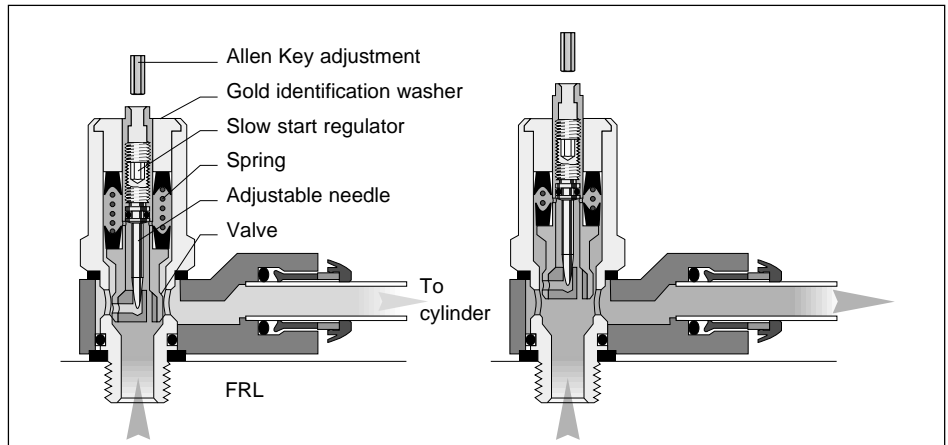


Principle

Designed for mounting on either the FRL or power valve, Parker Prestostart slow start function fittings permit the gradual increase in pressure to a section of the pneumatic system. This prevents shocks to the system that may occur when full system pressure is introduced thus reducing wear and potential damage to components.

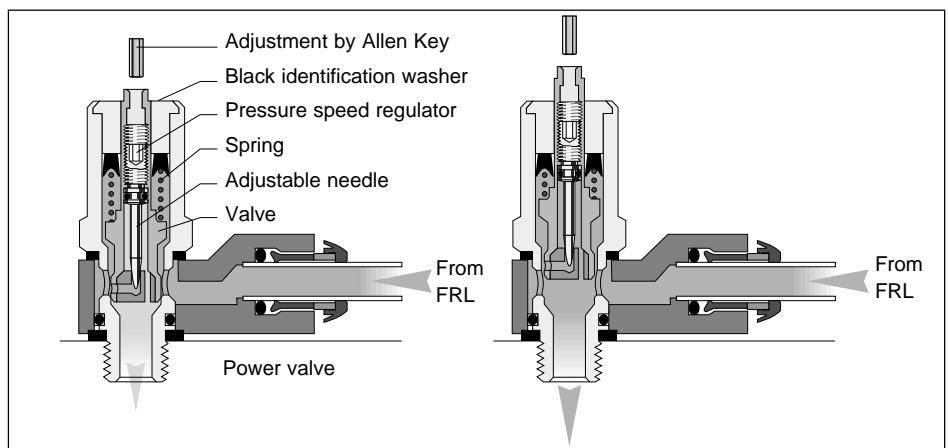
PIV Series

- Mounted on outlet port of FRL to control downstream installation.
- Initial flow through the bolt is controlled by a restrictor and adjustable needle valve.
- When 2/3 rd system pressure is achieved the spring is compressed allowing immediate increase to full system pressure.
- When the system is pressurised after an emergency stop all cylinders will return to the rest position.



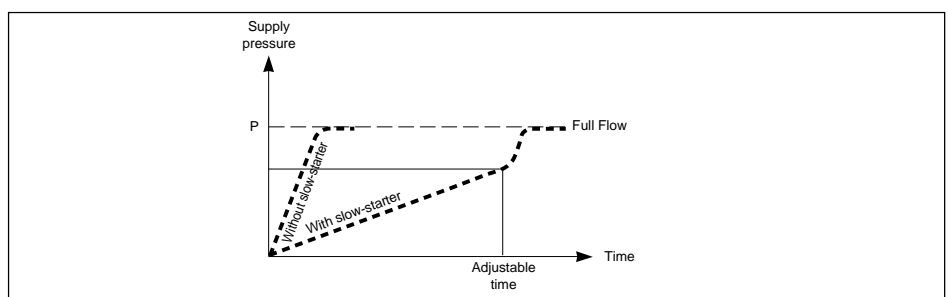
PCV Series

- Mounted on the supply port of the power valve or on the common supply of associated power valves.
- Initial flow into the power valve is controlled by the needle valve assembly.
- When 2/3 rd system pressure is achieved the spring is compressed allowing immediate increase to full system pressure.
- When the system is pressurised after an emergency stop all cylinders will return to the rest position.



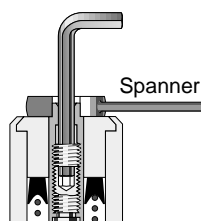
Pressurisation speed

Adjustment of the needle valve to regulate the air flow controls the time taken to pressurise the system.



Adjustment

- Use a spanner to prevent the bolt assembly turning.
- Use an Allen key to adjust the needle valve. Maximum torque 1N/m.

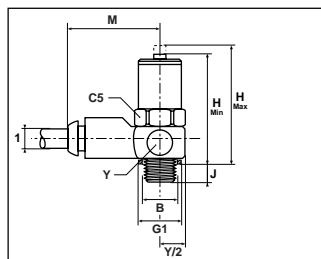


Pneumatic integrated function fittings

Technical features

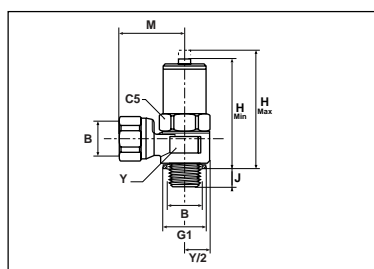
Body material		Bolt assembly material	Bolt threads	Sealing device	Terminations		Working temperature	Working pressure
Push-in version	Threaded version							
High resistance polyamide	Brass nickel plated	Brass nickel plated	1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon washer	8 to 12 mm push-in	1/4 to 1/2 BSPP female thread	From - 15°C to + 70°C	From 3 to 10 bar

PCV4PK - Slow start fitting - Power valve version with push-in connection



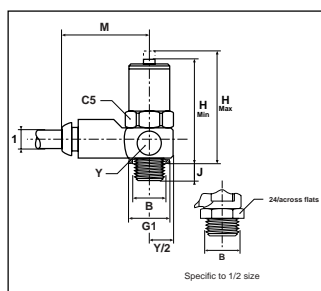
1	B	Part number	C5	G1	H		J	M	Y	Torque mN	Air flow NI/mn at 6 bar	Kv	Weight g.
					Min.	Max.							
8	1/4	PCV4PK8-1/4	17	17.5	54	61	9	35.0	20	1.3	1500	0.80	68
10	1/4	PCV4PK10-1/4	22	19.5	55	62	9	41.5	25	1.3	2000	1.15	112
10	3/8	PCV4PK10-3/8	22	21.0	55	62	10	41.5	25	1.5	2000	1.15	115

PCV4 - Slow start fitting - Power valve version with threaded connection



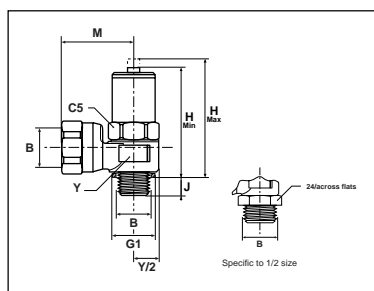
B	Part number	C5	G1	H		J	M	Y	Torque mN	Air flow NI/mn at 6 bar	Kv	Weight g.
				Min.	Max.							
1/4	PCV4-1/4	22	19.5	55	62	9	31	24	1.3	2000	1.15	149
3/8	PCV4-3/8	22	21.0	55	62	10	31	24	1.5	2000	1.15	141

PIV4PK - Slow start fitting - System isolating valve version with push-in connection



1	B	Part number	C5	G1	H		J	M	Y	Torque mN	Air flow NI/mn at 6 bar	Kv	Weight g.
					Min.	Max.							
8	1/4	PIV4PK8-1/4	17	17.5	54.0	61.0	9	27.5	20	1.3	1500	0.8	66
10	1/4	PIV4PK10-1/4	22	19.5	55.0	62.0	9	41.5	25	1.3	2100	1.2	110
10	3/8	PIV4PK10-3/8	22	21.0	55.0	62.0	10	41.5	25	1.5	2200	1.3	113
12	3/8	PIV4PK12-3/8	22	21.0	55.0	62.0	10	46.5	25	1.5	3100	1.0	125
12	1/2	PIV4PK12-1/2	22	25.5	63.5	70.5	10	46.5	25	1.8	3100	1.0	151

PIV4 - Slow start fitting - System isolating valve version with threaded connection

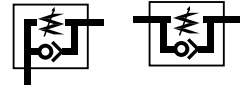


B	Part number	C5	G1	H		J	M	Y	Torque mN	Air flow NI/mn at 6 bar	Kv	Weight g.
				min.	max.							
1/4	PIV4-1/4	22	19.5	54.0	62.0	9	31.0	24	1.3	2100	1.2	148
3/8	PIV4-3/8	22	21.0	55.0	62.0	10	31.0	24	1.5	3100	1.0	140
1/2	PIV4-1/2	24	25.5	63.5	70.5	10	34.5	24	1.8	3100	1.0	178

Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

Pneumatic integrated function fittings

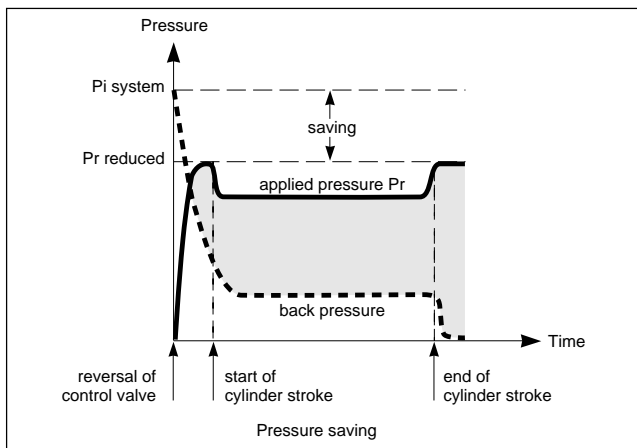
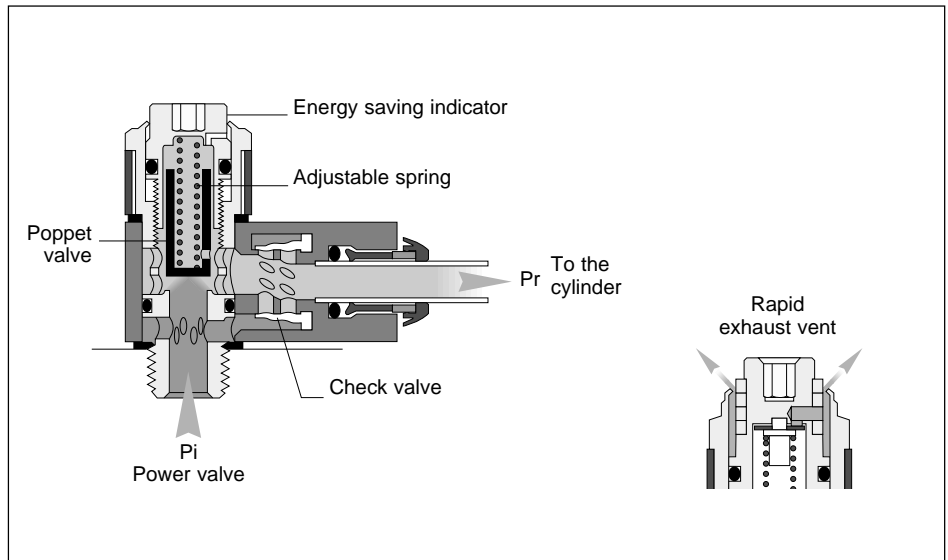
Prestoreduce - Pressure reduction fittings



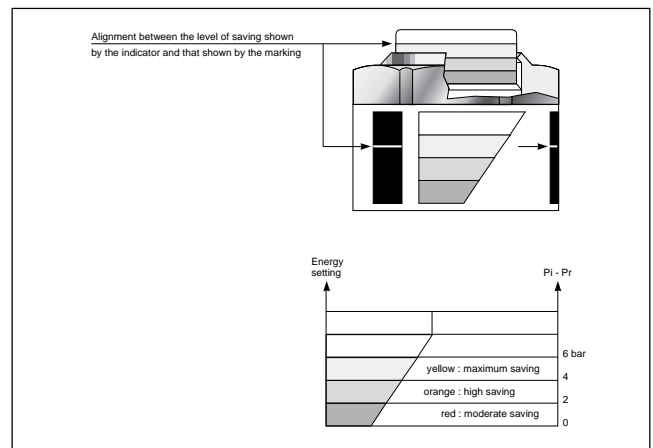
Principle

This function fitting is manually preset to provide the cylinder with optimum air pressure. This reduces the air consumption of the cylinder generating energy savings. This fitting is particularly suitable for cylinders used in cutting, pressing or gripping operations.

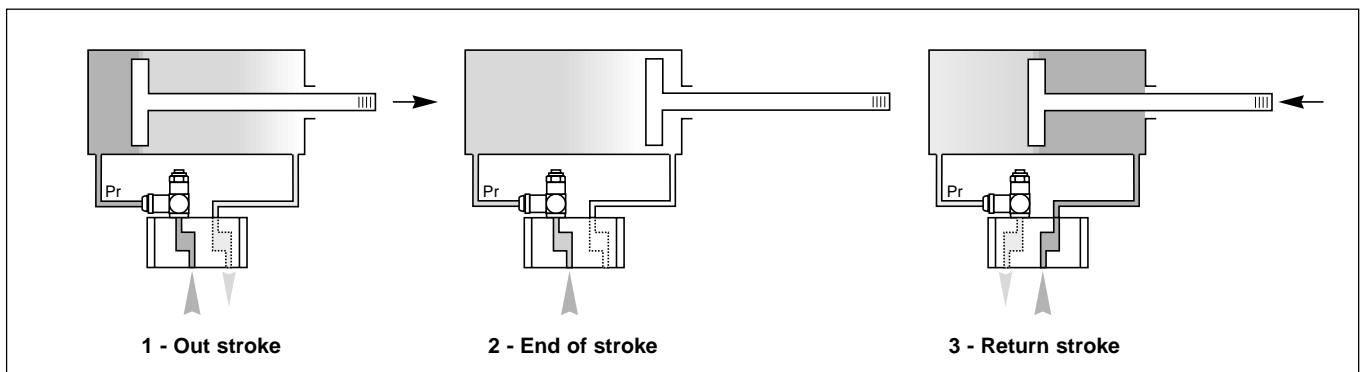
- System pressure (P_i) is reduced by a spring-loaded valve which can be calibrated by the set screw.
- The greater the reduction between inlet and outlet pressure the larger the energy savings.
- The coloured indicator shows the energy savings achieved.
- The purge vent allows rapid exhaust of air in emergencies.
- Adjustment can be made with an Allen key or manual ratchet control (see page F 29).
- An anti tamper plug can be fitted after the pressure has been set (see page F 29).



Pressure saving



Pressure saving indication

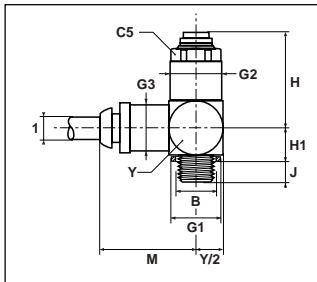


Pneumatic integrated function fittings

Technical features

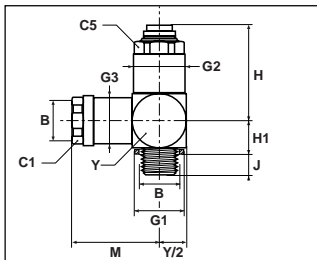
Body material		Bolt assembly material	Bolt threads	Sealing device	Terminations		Working temperature	Working pressure
Banjo version	In line version							
Metal	Nickel plated brass	Brass	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	Nylon Washer	6 to 10 mm Push-in	1/8 to 1/2 BSPP female thread	- 15°C to + 70°C	1 bar to 8 bar

PRB4PB - Pressure reducer - Banjo version with push-in connection



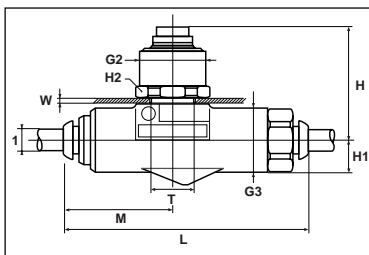
1	B	Part number	C5	G1	G2	G3	H		H1	J	M	Y	Weight g.
							Min.	Max.					
6	1/8	PRB4PB6-1/8	19	19.5	22	20	49	57	12	6	43	21	135
6	1/4	PRB4PB6-1/4	19	19.5	22	20	49	57	12	6	43	21	136
8	1/4	PRB4PB8-1/4	19	19.5	22	20	49	57	12	6	40	21	133
10	1/4	PRB4PB10-1/4	27	26.0	28	26	55	64	15	6	50	28	241
10	3/8	PRB4PB10-3/8	27	26.0	28	26	55	64	15	8	50	28	250

PRB4 - Pressure reducer - Banjo version with threaded connection



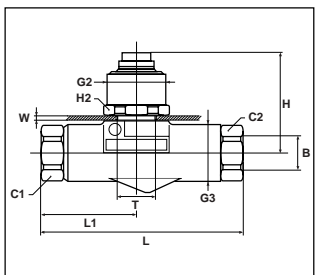
B	Part number	C1	C5	G1	G2	G3	H		H1	J	M	Y	Weight g.
							Min.	Max.					
1/8	PRB4-1/8	19	19	19.5	22	20	49	57	12	6	45	21	157
1/4	PRB4-1/4	19	19	19.5	22	20	49	57	12	6	45	21	150
3/8	PRB4-3/8	24	27	26.0	28	26	55	64	15	6	56	28	283
1/2	PRB4-1/2	30	30	30.0	32	31	75	86	23	8	63	33	525

PRIPB - Pressure reducer - In-line version with push-in connection



1	Part number	G2	G3	H		H1	H2	L	M	T	W	Weight g.
				Min.	Max.							
6	PRIPB6	11	21	49	57	14	22	75	32.5	18.5	4	208
8	PRIPB8	13	21	49	57	14	22	72	32.5	18.5	4	196
10	PRIPB10	17	28	61	70	19	27	90	41.5	22.5	5	405

PRI4 - Pressure reducer - In-line version with threaded connection



B	Part number	C1	C2	G2	G3	H		H1	H2	L	L1	T	W	Weight g.
						Min.	Max.							
1/8	PRI4-1/8	17	19	11	21	49	57	14	22	74	35	18.5	4	210
1/4	PRI4-1/4	17	19	13	21	49	57	14	22	83	44	18.5	4	211
3/8	PRI4-3/8	22	27	17	28	61	70	19	27	90	44	22.5	5	392
1/2	PRI4-1/2	27	30	19	31	75	86	23	32	119	61	27.5	7	655

Parker Prestoflow with push-in connections are designed to be used with Parker calibrated polyamide or polyurethane tubing. See Thermoplastic singles tubes & Pneumo-Tube bundles section (P).

Pneumatic integrated function fittings

Prestosil - Silencer and flow control valve



Principle

Prestosil silencers are designed for mounting into the exhaust valve of single acting cylinders or on the directional control valve.

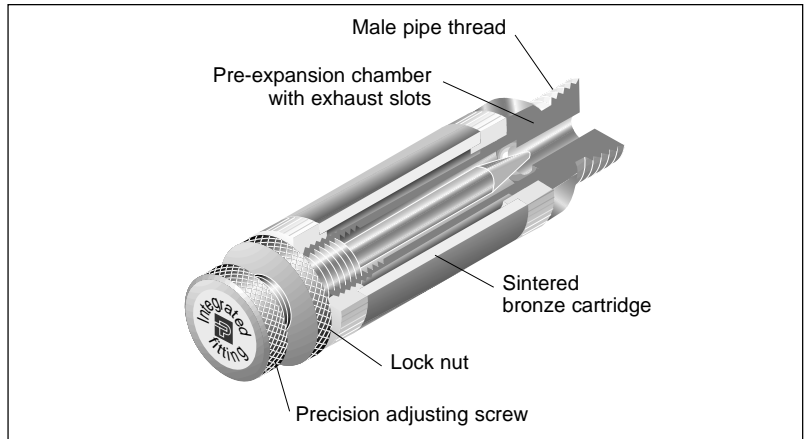
Operation

Noise reduction

The escaping air is pre-expanded in the chamber of the silencer. It then flows through a sintered bronze cartridge whose design provides a complete expansion of the exhaust air.

Flow control

The adjusting screw of the uni-direction flow control valve allows fine adjustment of the restriction and thus precise control of the piston-rod speed. The setting is secured by a lock nut.



Technical features

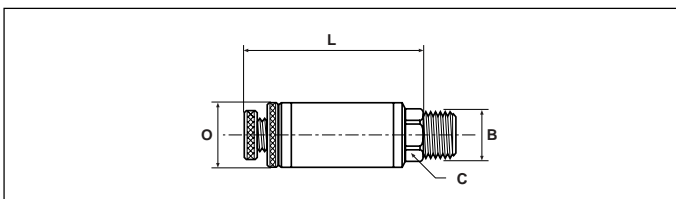
Body material	Sinter material	Needle valve material	Locknut material	Silencer thread	Working temperature	Working pressure
Aluminium	Bronze	Aluminium	Aluminium	1/8 BSPP 1/4 BSPP 3/8 BSPP 1/2 BSPP	From -25°C to +100°C	From 0.1 to 10 bar

Noise reduction characteristics

At an average working pressure of 5 bar the noise reduction achieved with the appropriate Prestosil model ranges from 22 to 37 dB.

Part number	Working pressure						
	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar
PRS4-1/8	6	15	20.5	21	22	24	24
PRS4-1/4	11	22	27.0	29	32	32	32
PRS4-3/8	19	27	33.0	35	37	39	40
PRS4-1/2	19	27	33.0	35	37	39	40

PRS - Silencer and flow control valve

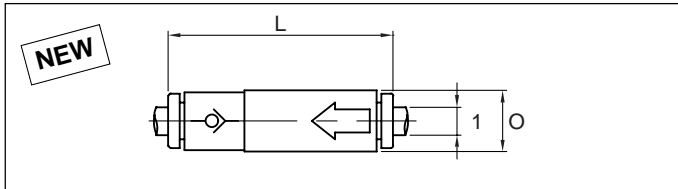


B	Part number	C	L		O	Weight g.
			Min.	Max.		
1/8	PRS4-1/8	11	43	48	14	45
1/4	PRS4-1/4	14	60	68	17	55
3/8	PRS4-3/8	19	80	88	26	98
1/2	PRS4-1/2	22	83	91	26	104

Pneumatic integrated function fittings

Non-return union

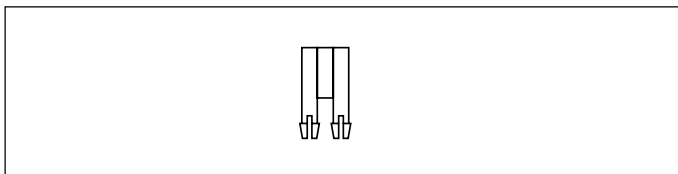
PWA-L - Non-return equal union



1	Part number	O	L	Air flow at 6 bar NI/min	Kv	Weight g.
4	PWA-L1444	11.0	43.0	330	0.12	8
6	PWA-L1466	13.0	49.5	665	0.14	13
8	PWA-L1488	15.5	55.0	1630	0.80	18

Accessories - Flow control

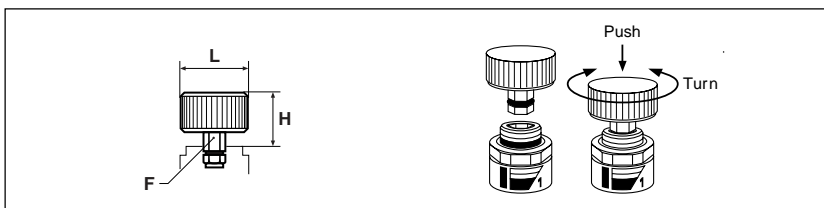
Clip - Flow control clips



Tube OD	Part number	Weight g.
4	Clip4	3
6-8	Clip6-8	4
10-12	Clip10-12	9

Suitable for in-line flow regulators PTF series

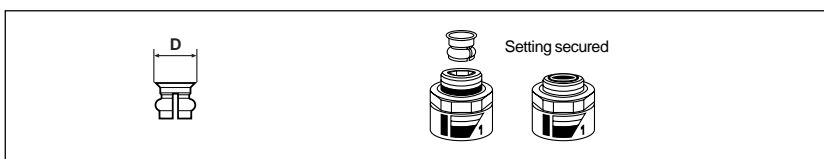
Ratchet 6 - manual ratchet



Tube OD	Part number	L	H	Weight g.
6	RATCHET 6	22	15	39

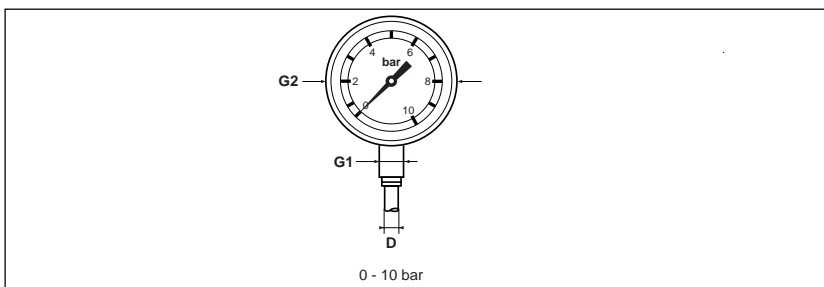
Suitable for use with pressure reducing fittings - PRB/PRI

Splug - Adjuster plug



D	Part number	Weight g.
8-16	SPLUG	1

PGAUGE - Plug-in pressure gauge



D	Part number	G1	G2	Weight g.
6	PGAUGE	11	50	74

The plug in pressure gauge enables the energy savings made with Prestoreduce fittings to be measured.

For product availability please consult our price list 0093-UK.

Dimensions shown may be changed at any time without prior notice.

Metrulok






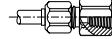


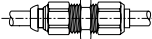
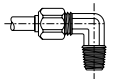
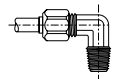
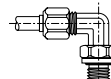
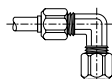
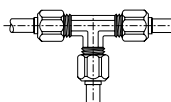
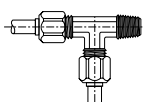
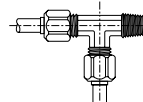
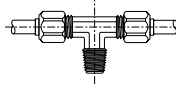
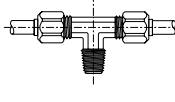
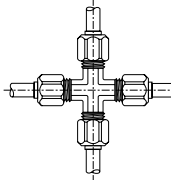
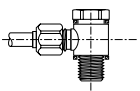
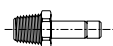
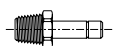
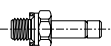








*Brass fitting
for copper and plastic tubing*

Catalogue 4324-UK



Metrulok fitting

Index

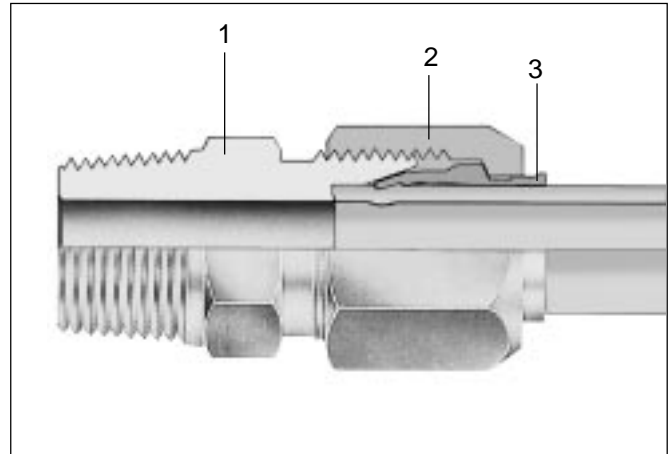
Straight connectors						
	male - NPT FBM - p. G 6	male - BSPT F3BM - p. G 6	male - BSPP F4BM - p. G 6	male - metric F8BM - p. G 7	union HBM - p. G 7	female - NPT GBM - p. G 7
						
						female - BSPP G4BM - p. G 8
Bulkhead connectors						
	union WBM - p. G 8	mixed union WBMPB - p. G 8				
90° elbows						
	male - NPT CBM - p. G 9	male - BSPT C3BM - p. G 9	adjustable male - metric C8BM - p. G 9	union EBM - p. G 10		
Tees						
	union JBM - p. G 10	male run - NPT RBM - p. G 10	male run - BSPT R3BM - p. G 11	male branch - NPT SBM - p. G 11	male branch - BSPT S3BM - p. G 11	
Cross						
	union KBM - p. G 12					
Banjo						
	single - assembled BSPP COR4BM - p. G 12					
Tube end adaptors						
	male - NPT T2HF - p. G 12	male - BSPT T23HF - p. G 13	male - metric T28HF - p. G 13	female - NPT T2HG - p. G 13	female - BSPP T24HG - p. G 14	
Connector accessories						
	nut BM - p. G 14	nut + ferrule BTM - p. G 14	fitting body cap FNM - p. G 14	tube plug PNM - p. G 15	ferrule TM - p. G 15	tube end reducer TRBM - p. G 15

Principle

Metrulok is a one-piece, ready-to-use, bite type fitting with back compression.

The ferrule is held captive in the nut.

The fitting is designed to permit tube entry and fitting make-up without removal of the nut and ferrule, avoiding assembly of the fitting components prior to use.



Technical features

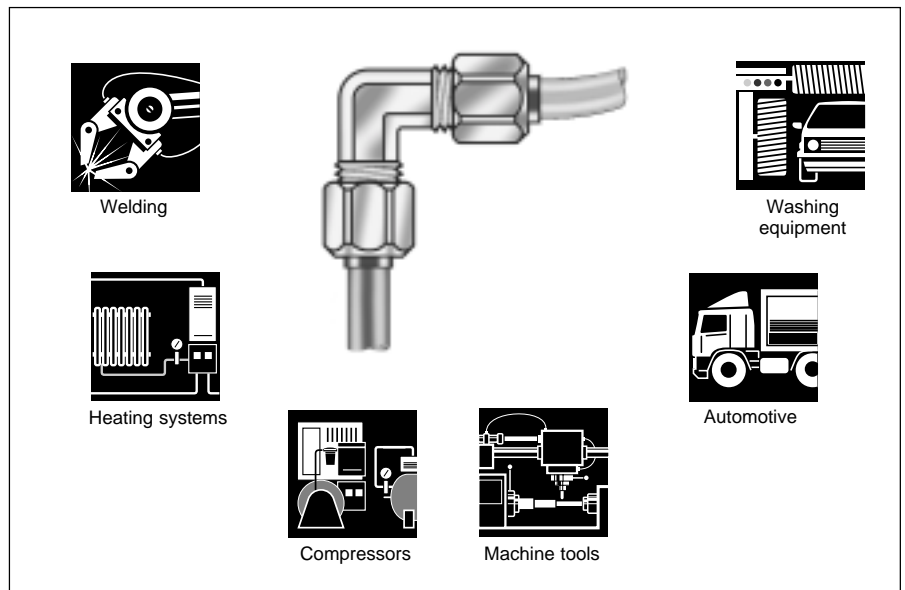
Material			Working temperature	Working pressure* depending on tube O.D. (with 1 mm wall thickness)							
1	2	3		Tube O.D. mm	4	6	8	10	12	14	16 to 22
Body	Nut	Ferrule	From - 60°C to + 190°C	bar	180	180	130	110	90	75	60
Brass	Brass	Brass									

* The pressures given are with copper tubing. For polyamide or polyurethane tubing see Thermoplastic single tubes and Pneumo-Tube bundles section (P).

Applications

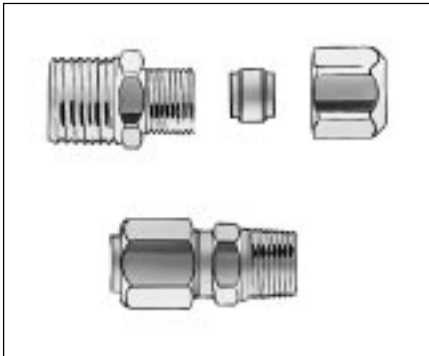
With its ability to be used with many types of tubing and its variety of thread forms, Metrulok is suitable for a wide range of fluid applications.

It is particularly suitable for arduous environments, with its wide temperature range and excellent vibration characteristics.



Metrulok fitting

Advantages

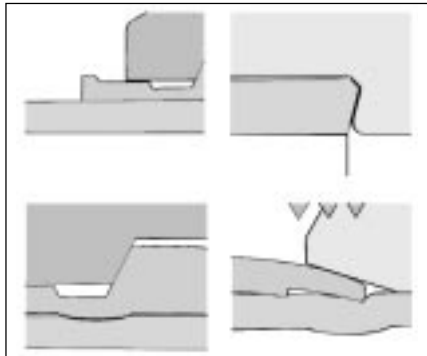


Fitting ready to use

- Compact fully assembled fitting, saving time at installation.
- Captive snap-in ferrule.
- Simplified handling and stock control.
- No pre-setting of the ferrule.

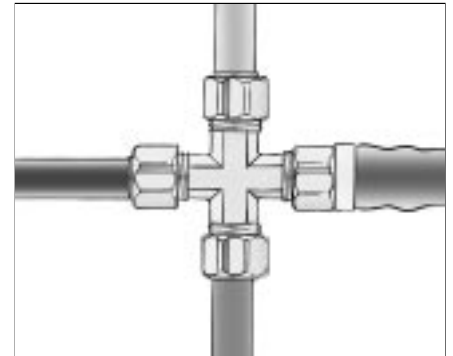
Safety

- Visible ferrule (extending through rear of nut) allows quality control checks for correct assembly.



Excellent vibration resistance

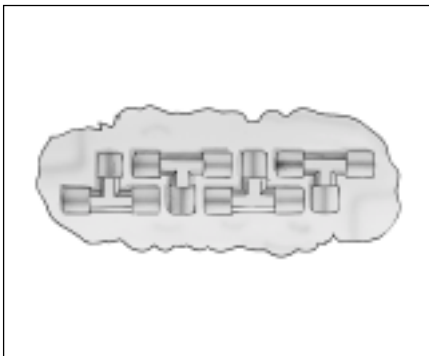
- Vibration is contained by the back compression of the ferrule extending outside the nut.
- The tube is held at the bottom of the fitting. The tube is thus held between two points so that vibration running along the tube does not affect the sealing and bite area.



Wide variety of tubing

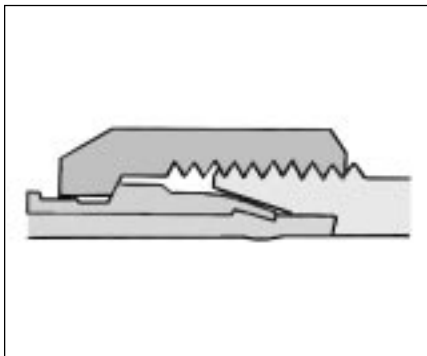
Metrulok can be used with copper tube conforming to DIN 1786, NF AS1-120, BS 2871 Part 2. Metrulok is suitable for use with most types of plastic tubing (polyamide, polyurethane, polyethylene, Pebax, Teflon®...)

Parker Push-Lok hoses can also be connected with Metrulok bodies using the Push-Lok FF series connectors (see Push-Lok Hose and Fittings section).



Forgings

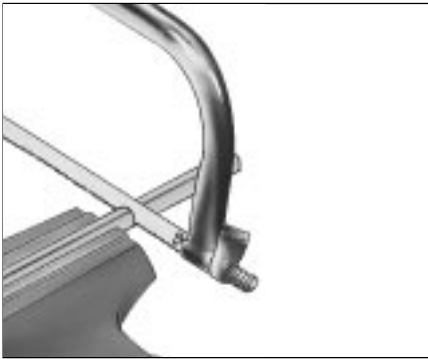
- Metrulok shaped fittings are produced from hot forgings to meet exacting requirements.
- The hot forging process increases the density of the material, refines the grain structure and improves material strength.



Positive sealing and bite

- The wedging action of the nut when tightened causes the ferrule to bite into the outside diameter of the tube wall for a leakproof connection.
- With flexible tubing (polyurethane, PEBA or polyethylene), it is recommended is used a tube insert to ensure positive holding of the tube.

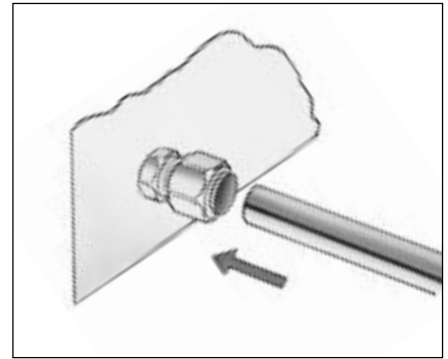
Assembly instructions



Cut the tube square



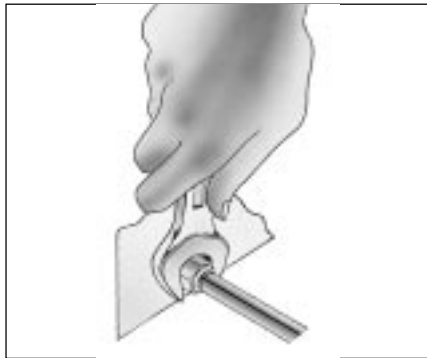
De-burr (copper tube)



Insert the tube through the nut and ferrule until it bottoms



Finger tighten the nut



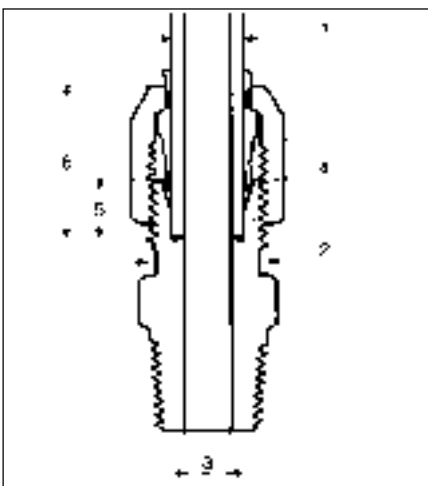
Spanner tighten the nut (one turn, or one and half turns according to the size)

Disassembly - remake

The Metrulok fitting can be assembled and disassembled at least 15 times.

At each remake, hand tighten the nut, then spanner tighten 1/6 of a turn.

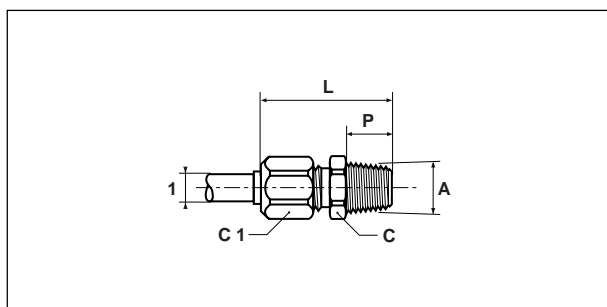
Fitting dimensions



1 Tube O.D. mm	2 Metric straight thread	3 Inside diameter mm	4 Hex of nut mm	5 Tube entry body mm	6 Tube entry compl. fitting mm	Spanner tightening in turns
4	M8x1	2	10	4	12	1.1/2
6	M10x1	4	12	5	13	1.1/2
8	M12x1	6	14	6	14	1.1/2
10	M14x1	8	17	6	14	1.1/2
12	M16x1	10	19	7	15	1.1/2
14	M18x1	12	22	8	16	1.1/2
16	M22x1.5	14	27	8	16	1
18	M24x1.5	16	30	9	21	1
20	M26x1.5	18	32	9	21	1
22	M28x1.5	20	36	10	22	1

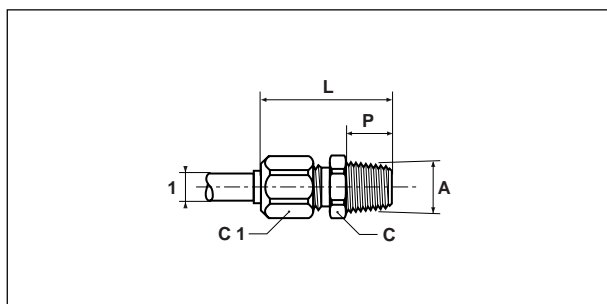
Metrulok fitting

FBM - Male connector - NPT



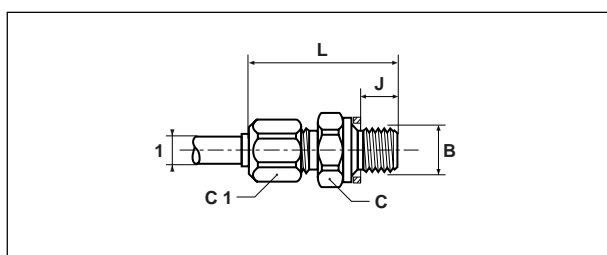
1	A	Part number	C	C1	L	P	Weight g.
4	1/16	FBMB4-1/16	8	10	26	8	11
4	1/8	FBMB4-1/8	11	10	27	8	15
6	1/8	FBMB6-1/8	11	12	28	8	17
6	1/4	FBMB6-1/4	14	12	32	12	28
8	1/8	FBMB8-1/8	12	14	29	8	21
8	1/4	FBMB8-1/4	14	14	33	12	30
10	1/4	FBMB10-1/4	14	17	33	12	30
10	3/8	FBMB10-3/8	19	17	34	12	45
12	3/8	FBMB12-3/8	19	19	35	12	45
12	1/2	FBMB12-1/2	22	19	40	16	61
14	3/8	FBMB14-3/8	19	22	36	12	53
14	1/2	FBMB14-1/2	22	22	41	16	76
16	1/2	FBMB16-1/2	22	27	40	16	55
18	1/2	FBMB18-1/2	24	30	46	16	135
20	3/4	FBMB20-3/4	27	32	47	18	154
22	3/4	FBMB22-3/4	30	36	49	18	147

F3BM - Male connector - BSPT



1	A	Part number	C	C1	L	P	Weight g.
4	1/8	F3BMB4-1/8	10	10	24.0	6.5	13
6	1/8	F3BMB6-1/8	11	12	26.0	6.5	17
6	1/4	F3BMB6-1/4	14	12	29.5	10.0	26
8	1/8	F3BMB8-1/8	12	14	27.5	6.5	17
8	1/4	F3BMB8-1/4	14	14	30.5	10.0	29
10	1/4	F3BMB10-1/4	14	17	30.5	10.0	29
10	3/8	F3BMB10-3/8	17	17	31.0	10.0	41
12	3/8	F3BMB12-3/8	17	19	32.4	10.0	41
12	1/2	F3BMB12-1/2	22	19	35.5	12.5	68
14	3/8	F3BMB14-3/8	19	22	33.2	10.0	51
14	1/2	F3BMB14-1/2	22	22	36.2	12.5	73
16	3/8	F3BMB16-3/8	22	27	34.2	10.0	73
16	1/2	F3BMB16-1/2	22	27	36.4	12.5	81
18	1/2	F3BMB18-1/2	24	30	42.3	12.5	132
20	3/4	F3BMB20-3/4	27	32	43.0	14.0	144
22	3/4	F3BMB22-3/4	30	36	45.0	14.0	142

F4BM - Male connector - BSPP

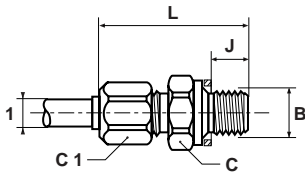


1	B	Part number	C	C1	J	L	Weight g.
4	1/8	F4BMB4-1/8	14	10	8	29	20
6	1/8	F4BMB6-1/8	14	12	8	30	29
6	1/4	F4BMB6-1/4	19	12	9	32	39
8	1/4	F4BMB8-1/4	19	14	9	33	41
10	1/4	F4BMB10-1/4	19	17	9	33	45

These parts are supplied with a copper seal.

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

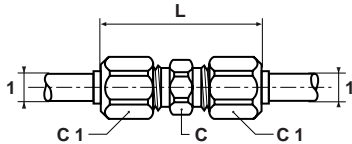
F8BM - Male connector - metric straight thread



1	B	Part number	C	C1	J	L	Weight g.
4	M5x0.8	F8BMB4M5	8	10	5	24	10
12	M16x1.5	F8BMB12M16	22	19	11	37	60
12	M22x1.5	F8BMB12M22	27	19	12	40	98
14	M16x1.5	F8BMB14M16	22	22	11	38	68
14	M22x1.5	F8BMB14M22	27	22	12	41	102
16	M16x1.5	F8BMB16M16	22	27	11	37	84
16	M22x1.5	F8BMB16M22	27	27	12	40	112

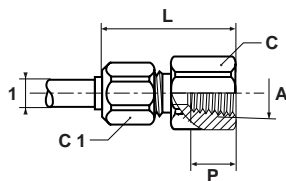
These parts are supplied with a copper seal.

HBM - Equal union



1	Part number	C	C1	L	Weight g.
4	HBMB4	8	10	31	15
6	HBMB6	10	12	34	22
8	HBMB8	12	14	37	31
10	HBMB10	14	17	37	40
12	HBMB12	17	19	39	50
14	HBMB14	19	22	41	74
16	HBMB16	22	27	41	109
18	HBMB18	24	30	51	202
20	HBMB20	27	32	51	202
22	HBMB22	30	36	54	182

GBM - Female connector - NPT

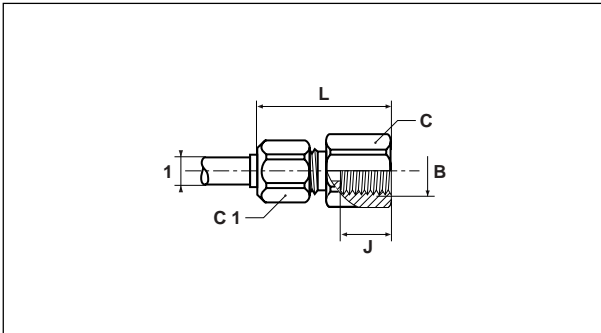


1	A	Part number	C	C1	L	P	Weight g.
6	1/8	GBMB6-1/8	14	12	29	10	23
6	1/4	GBMB6-1/4	19	12	32	13	38
8	1/8	GBMB8-1/8	14	14	30	10	27
8	1/4	GBMB8-1/4	19	14	33	13	44
10	1/4	GBMB10-1/4	19	17	33	13	44
10	3/8	GBMB10-3/8	22	17	35	15	58
12	3/8	GBMB12-3/8	22	19	36	15	60
12	1/2	GBMB12-1/2	27	19	38	16	84
14	3/8	GBMB14-3/8	22	22	37	15	71
14	1/2	GBMB14-1/2	27	22	39	16	97
16	1/2	GBMB16-1/2	27	27	39	16	110

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

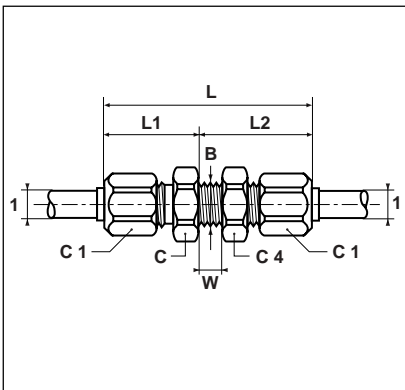
Metrulok fitting

G4BM - Female connector - BSPP



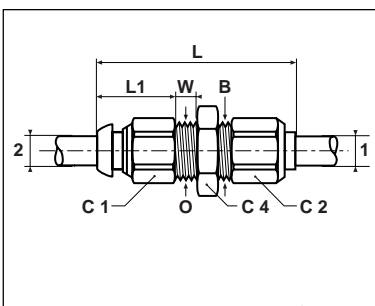
1	B	Part number	C	C1	J	L	Weight g.
4	1/8	G4BMB4-1/8	14	10	8	26	19
6	1/8	G4BMB6-1/8	14	12	8	27	22
6	1/4	G4BMB6-1/4	19	12	10	29	35
8	1/8	G4BMB8-1/8	14	14	8	28	25
8	1/4	G4BMB8-1/4	19	14	10	30	39
10	1/4	G4BMB10-1/4	19	17	10	30	41
10	3/8	G4BMB10-3/8	22	17	12	32	52
12	3/8	G4BMB12-3/8	22	19	12	33	54
12	1/2	G4BMB12-1/2	27	19	14	36	82
14	3/8	G4BMB14-3/8	22	22	12	34	63
14	1/2	G4BMB14-1/2	27	22	14	37	92
16	1/2	G4BMB16-1/2	27	27	14	37	105
18	1/2	G4BMB18-1/2	27	30	14	41	148

WBM - Bulkhead union



1	Part number	B	C	C1	C4	L	L1	L2	W Max.	Weight g.
4	WBMB4	M8x1	12	10	10	47	19	28	10	30
6	WBMB6	M10x1	14	12	12	49	20	29	10	36
8	WBMB8	M12x1	16	14	14	52	21	31	10	48
10	WBMB10	M14x1	19	17	17	53	22	31	10	65
12	WBMB12	M16x1	22	19	19	56	24	32	10	85
14	WBMB14	M18x1	24	22	22	60	26	34	10	112
16	WBMB16	M22x1.5	27	27	24	58	25	33	10	225
18	WBMB18	M24x1.5	30	30	27	70	31	39	10	275
20	WBMB20	M26x1.5	32	32	32	70	31	39	10	280
22	WBMB22	M28x1.5	36	36	36	74	33	41	10	262

WBMPB - Mixed bulkhead equal union

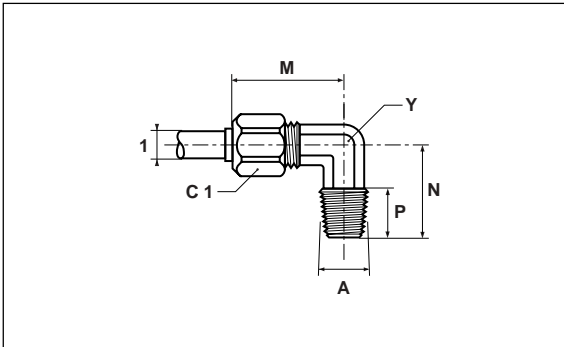


1	2	B	Part number	C1	C2	C4	L	L1	O	W Max.	Weight g.
4	4	M8x1	WBMPB4	10	10	12	34	15	8.5	5	22
6	6	M10x1	WBMPB6	12	10	12	37	16	10.5	5	22
8	8	M12x1	WBMPB8	14	14	16	39	17	12.5	5	29
10	10	M14x1	WBMPB10	17	17	19	45	20	14.5	5	50
12	12	M16x1	WBMPB12	22	19	22	49	21	16.5	5	85
14	14	M18x1	WBMPB14	24	22	22	52	23	18.5	7	112

This bulkhead fitting combines a Prestolok and Metrulok connection to connect a copper tube with a plastic tube. For this conversion fitting please consult Prestolok section(D), for recommended working pressure and temperature.

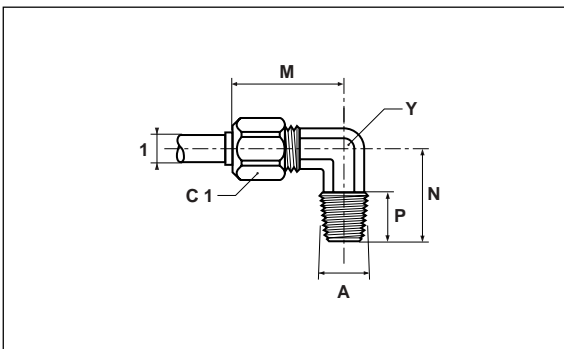
For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

CBM - 90° male elbow - NPT



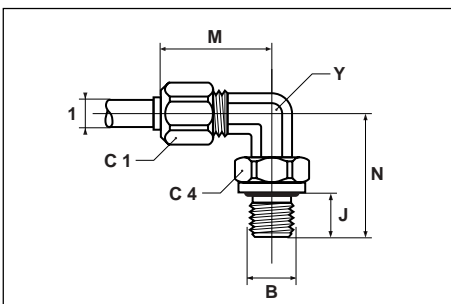
1	A	Part number	C1	M	N	P	Y	Weight g.
4	1/8	CBMB4-1/8	10	22	17	8	7	17
6	1/8	CBMB6-1/8	12	24	18	8	8	22
6	1/4	CBMB6-1/4	12	24	22	12	8	30
8	1/8	CBMB8-1/8	14	26	19	8	10	28
8	1/4	CBMB8-1/4	14	26	23	12	10	36
10	1/4	CBMB10-1/4	17	27	24	12	12	49
10	3/8	CBMB10-3/8	17	28	25	12	12	55
12	3/8	CBMB12-3/8	19	32	27	12	14	51
12	1/2	CBMB12-1/2	19	32	31	16	14	70
14	3/8	CBMB14-3/8	22	32	26	12	16	87
14	1/2	CBMB14-1/2	22	33	31	16	16	94
16	1/2	CBMB16-1/2	27	35	34	16	16	111
18	1/2	CBMB18-1/2	30	41	35	16	20	163
20	3/4	CBMB20-3/4	32	45	40	18	24	215
22	3/4	CBMB22-3/4	36	46	40	18	24	191

C3BM - 90° male elbow - BSPT



1	A	Part number	C1	M	N	P	Y	Weight g.
4	1/8	C3BMB4-1/8	10	22	17.0	8.0	7	16
6	1/8	C3BMB6-1/8	12	24	17.0	6.5	8	21
6	1/4	C3BMB6-1/4	12	24	20.5	10.0	8	30
8	1/8	C3BMB8-1/8	14	26	18.0	6.5	10	28
8	1/4	C3BMB8-1/4	14	26	21.5	10.0	10	35
10	1/4	C3BMB10-1/4	17	27	22.5	10.0	12	49
10	3/8	C3BMB10-3/8	17	28	22.1	10.0	12	52
12	3/8	C3BMB12-3/8	19	32	25.1	10.0	14	51
12	1/2	C3BMB12-1/2	19	32	27.8	12.5	14	64
14	3/8	C3BMB14-3/8	22	32	24.1	10.0	16	67
14	1/2	C3BMB14-1/2	22	32	27.3	12.5	16	92
16	1/2	C3BMB16-1/2	27	35	30.8	12.5	18	108
18	1/2	C3BMB18-1/2	30	41	31.8	12.5	20	164
20	3/4	C3BMB20-3/4	32	45	36.5	14.0	24	205
22	3/4	C3BMB22-3/4	36	46	36.5	14.0	24	186

C8BM - 90° adjustable male elbow - metric straight thread



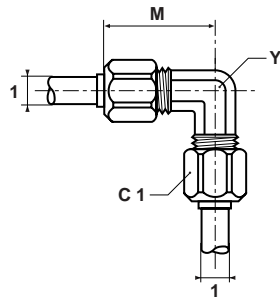
1	B	Part number	C1	C4	J	M	N	Y	Weight g.
12	M16x1.5	C8BMB12M16	19	22	9	32	35	14	73
12	M22x1.5	C8BMB12M22	19	30	10	35	39	20	153
14	M16x1.5	C8BMB14M16	22	22	9	32	33	16	103
14	M22x1.5	C8BMB14M22	22	30	10	35	39	20	160
16	M16x1.5	C8BMB16M16	24	22	9	35	36	18	128
16	M22x1.5	C8BMB16M22	27	30	10	36	39	20	169

These fittings are equipped with Nitrile O-Ring. The temperature range for this fitting range is from -25° C to + 100° C.

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

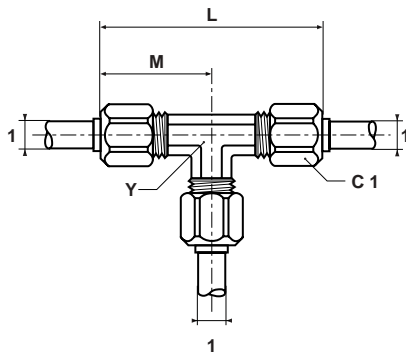
Metrulok fitting

EBM - 90° union elbow



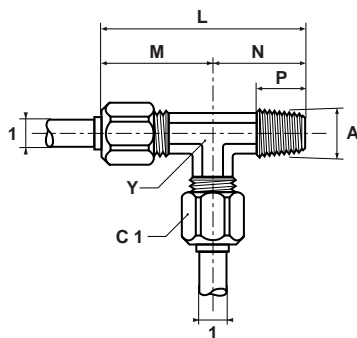
1	Part number	C1	M	Y	Weight g.
4	EBMB4	10	22	7	20
6	EBMB6	12	24	8	28
8	EBMB8	14	26	10	39
10	EBMB10	17	27	12	60
12	EBMB12	19	32	14	60
14	EBMB14	22	32	16	87
16	EBMB16	27	35	18	195
18	EBMB18	30	41	20	230
20	EBMB20	32	45	24	270
22	EBMB22	36	46	24	222

JBM - Union tee



1	Part number	C1	L	M	Y	Weight g.
4	JBMB4	10	47	23.5	7	33
6	JBMB6	12	48	24.0	8	40
8	JBMB8	14	52	26.0	10	54
10	JBMB10	17	54	27.0	12	69
12	JBMB12	19	63	31.5	14	93
14	JBMB14	22	63	31.5	16	128
16	JBMB16	27	69	34.5	18	180
18	JBMB18	30	82	41.0	20	336
20	JBMB20	32	89	44.5	24	379
22	JBMB22	36	91	45.5	24	309

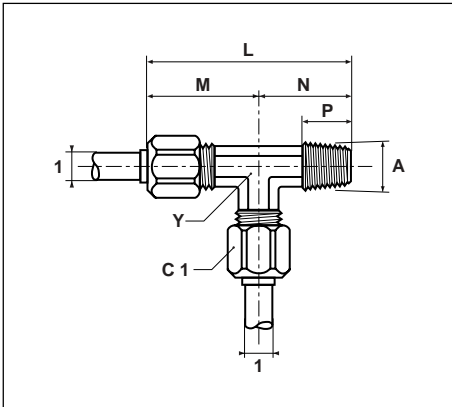
RBM - Male run tee - NPT



1	A	Part number	C1	L	M	N	P	Y	Weight g.
6	1/8	RBMB6-1/8	12	42	24	18	8	8	33
6	1/4	RBMB6-1/4	12	48	25	23	12	10	31
8	1/8	RBMB8-1/8	14	45	26	19	8	10	23
8	1/4	RBMB8-1/4	14	49	26	23	12	10	32
10	1/4	RBMB10-1/4	17	51	27	24	12	12	97
10	3/8	RBMB10-3/8	17	52	28	24	12	12	39
12	3/8	RBMB12-3/8	19	59	32	27	12	14	51
12	1/2	RBMB12-1/2	19	63	32	31	16	14	71
14	3/8	RBMB14-3/8	22	60	33	28	12	16	60
14	1/2	RBMB14-1/2	22	64	33	31	16	16	76
16	1/2	RBMB16-1/2	27	69	35	34	16	18	83

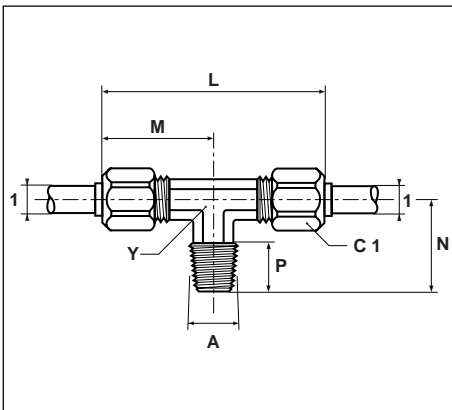
For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

R3BM - Male run tee - BSPT



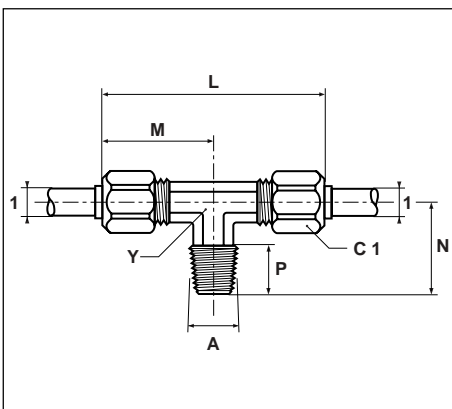
1	A	Part number	C1	L	M	N	P	Y	Weight g.
6	1/8	R3BMB6-1/8	12	42	24	17.0	6.5	8	33
6	1/4	R3BMB6-1/4	12	48	25	20.5	10.0	10	45
8	1/8	R3BMB8-1/8	14	45	26	18.0	6.5	10	43
8	1/4	R3BMB8-1/4	14	49	26	21.5	10.0	10	52
10	1/4	R3BMB10-1/4	17	51	27	22.5	10.0	12	60
10	3/8	R3BMB10-3/8	17	52	28	22.1	10.0	12	65
12	3/8	R3BMB12-3/8	19	59	32	25.1	10.0	14	81
12	1/2	R3BMB12-1/2	19	63	32	27.8	12.5	14	101
14	3/8	R3BMB14-3/8	22	59	32	24.1	10.0	16	110
14	1/2	R3BMB14-1/2	22	63	33	27.3	12.5	16	126
16	1/2	R3BMB16-1/2	27	69	35	30.8	12.5	18	151

SBM - Male branch tee - NPT



1	A	Part number	C1	L	M	N	P	Y	Weight g.
6	1/8	SBMB6-1/8	12	48	24.0	18	8	8	33
6	1/4	SBMB6-1/4	12	50	25.0	23	12	10	31
8	1/8	SBMB8-1/8	14	52	26.0	19	8	10	23
8	1/4	SBMB8-1/4	14	52	26.0	23	12	10	32
10	1/4	SBMB10-1/4	17	56	28.0	24	12	12	97
10	3/8	SBMB10-3/8	17	56	28.0	24	12	12	39
12	3/8	SBMB12-3/8	19	63	31.5	25	12	14	51
12	1/2	SBMB12-1/2	19	63	31.5	31	16	14	71
14	3/8	SBMB14-3/8	22	63	31.5	28	12	16	60
14	1/2	SBMB14-1/2	22	65	32.5	31	16	16	76
16	1/2	SBMB16-1/2	27	69	34.5	34	16	18	83

S3BM - Male branch tee - BSPT

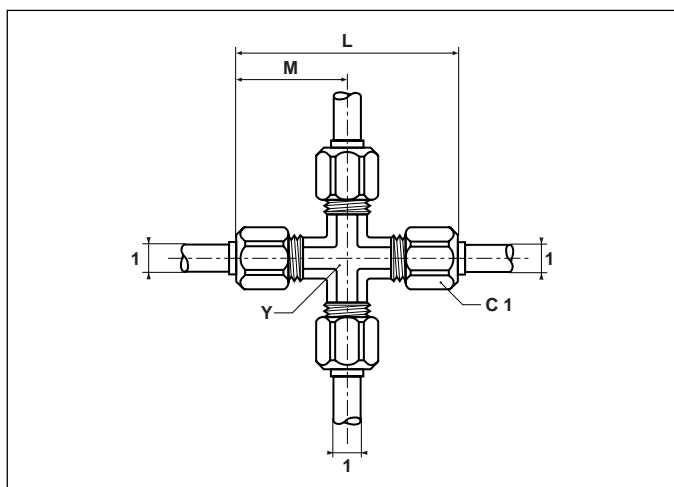


1	A	Part number	C1	L	M	N	P	Y	Weight g.
6	1/8	S3BMB6-1/8	12	48	24.0	17.0	6.5	8	33
6	1/4	S3BMB6-1/4	12	49	24.5	20.5	10.0	10	44
8	1/8	S3BMB8-1/8	14	52	26.0	18.0	6.5	10	55
8	1/4	S3BMB8-1/4	14	52	26.0	21.5	10.0	10	50
10	1/4	S3BMB10-1/4	17	54	27.0	22.5	10.0	12	59
10	3/8	S3BMB10-3/8	17	56	28.0	22.1	10.0	12	65
12	3/8	S3BMB12-3/8	19	63	31.5	25.1	10.0	14	81
12	1/2	S3BMB12-1/2	19	63	31.5	27.8	12.5	14	91
14	3/8	S3BMB14-3/8	22	63	31.5	24.1	10.0	16	109
14	1/2	S3BMB14-1/2	22	65	32.5	27.3	12.5	16	123
16	1/2	S3BMB16-1/2	27	69	34.5	30.8	12.5	18	155

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

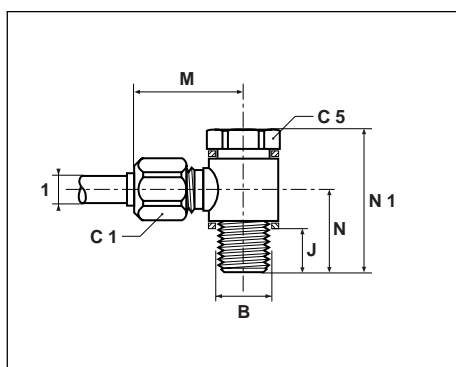
Metrulok fitting

KBM - Union cross



1	Part number	C1	L	M	Y	Weight g.
6	KBMB6	12	48	24.0	8	50
8	KBMB8	14	52	26.0	10	69
10	KBMB10	17	54	27.0	12	93
12	KBMB12	19	63	31.5	14	122
14	KBMB14	22	65	32.5	16	184
16	KBMB16	27	69	34.5	18	236

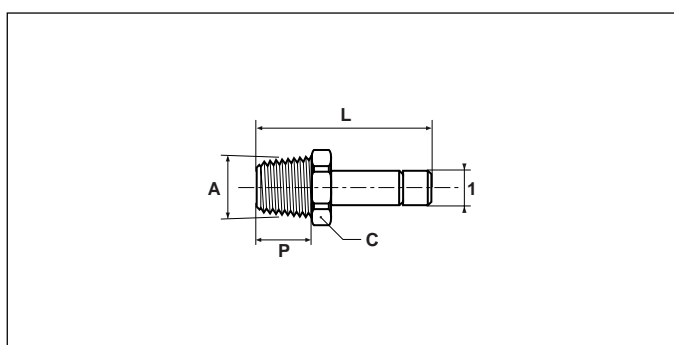
COR4BM - Single banjo BSP



1	B	Part number	C1	C5	J	M	N	N1	Weight g.
4	1/8	COR4BMB4-1/8	10	14	6	23	15	27	45
6	1/4	COR4BMB6-1/4	12	19	9	26	18	29	67
8	1/4	COR4BMB8-1/4	14	19	9	27	20	35	83
14	1/2	COR4BMB14-1/2	22	27	12	34	27	48	220
16	1/2	COR4BMB16-1/2	27	27	12	33	27	48	316
18	1/2	COR4BMB18-1/2	30	27	12	38	29	54	303
20	3/4	COR4BMB20-3/4	32	32	14	41	33	60	449
22	3/4	COR4BMB22-3/4	36	32	14	43	38	70	519

These parts are supplied with peripheral seals.

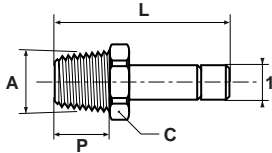
T2HF - Tube end male adaptor - NPT



1	A	Part number	C	L	P	Weight g.
6	1/8	T2HFB6-1/8	11	31	8	10
6	1/4	T2HFB6-1/4	14	36	12	21
8	1/8	T2HFB8-1/8	11	32	8	9
8	1/4	T2HFB8-1/4	14	36	12	19
10	1/4	T2HFB10-1/4	14	37	12	21
10	3/8	T2HFB10-3/8	19	38	12	35
12	3/8	T2HFB12-3/8	19	38	12	29
12	1/2	T2HFB12-1/2	22	43	16	55
14	3/8	T2HFB14-3/8	19	39	12	31
14	1/2	T2HFB14-1/2	22	44	16	50
16	1/2	T2HFB16-1/2	22	46	16	44
18	1/2	T2HFB18-1/2	22	50	16	55
20	3/4	T2HFB20-3/4	27	51	18	80
22	3/4	T2HFB22-3/4	27	54	18	85

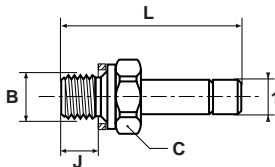
For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

T23HF - Tube end male adaptor - BSPT



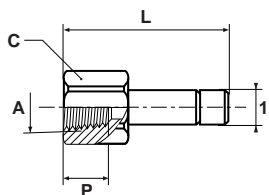
1	A	Part number	C	L	P	Weight g.
6	1/8	T23HFB6-1/8	10	28.5	6.5	9
6	1/4	T23HFB6-1/4	14	32.5	10.0	20
8	1/8	T23HFB8-1/8	10	29.0	6.5	9
8	1/4	T23HFB8-1/4	14	33.0	10.0	17
10	1/4	T23HFB10-1/4	14	34.0	10.0	20
10	3/8	T23HFB10-3/8	17	34.1	10.0	30
12	3/8	T23HFB12-3/8	17	34.6	10.0	23
12	1/2	T23HFB12-1/2	22	35.1	12.5	49
14	3/8	T23HFB14-3/8	17	35.6	10.0	27
14	1/2	T23HFB14-1/2	22	40.1	12.5	45
16	1/2	T23HFB16-1/2	22	41.6	12.5	39
18	1/2	T23HFB18-1/2	22	45.6	12.5	52
20	3/4	T23HFB20-3/4	27	46.5	14.0	78
22	3/4	T23HFB22-3/4	27	49.0	14.0	83

T28HF - Tube end male adaptor - metric straight thread



1	B	Part number	C	J	L	Weight g.
12	M14x1.5	T28HFB12M14	19	10	39	31
12	M16x1.5	T28HFB12M16	22	11	40	41
12	M18x1.5	T28HFB12M18	24	11	40	89
12	M22x1.5	T28HFB12M22	27	12	43	113
14	M16x1.5	T28HFB14M16	22	11	41	42
14	M22x1.5	T28HFB14M22	27	12	44	115
16	M16x1.5	T28HFB16M16	22	11	43	75
16	M18x1.5	T28HFB16M18	24	11	43	98
16	M22x1.5	T28HFB16M22	27	12	46	72

T2HG - Tube end female adaptor - NPT

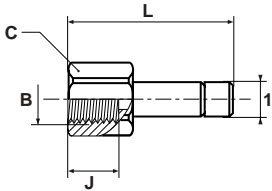


1	A	Part number	C	L	P	Weight g.
6	1/8	T2HGB6-1/8	14	32	10	16
6	1/4	T2HGB6-1/4	19	35	13	33
8	1/8	T2HGB8-1/8	14	33	10	16
8	1/4	T2HGB8-1/4	19	36	13	34
10	1/4	T2HGB10-1/4	19	37	13	36
10	1/2	T2HGB10-1/2	27	41	16	60
10	3/8	T2HGB10-3/8	22	39	15	47
12	3/8	T2HGB12-3/8	22	39	15	45
12	1/2	T2HGB12-1/2	27	41	16	71
14	3/8	T2HGB14-3/8	22	40	15	44
14	1/2	T2HGB14-1/2	27	42	16	71
16	1/2	T2HGB16-1/2	27	44	16	73
18	1/2	T2HGB18-1/2	27	48	16	72
20	3/4	T2HGB20-3/4	32	49	18	107
22	3/4	T2HGB22-3/4	32	51	18	98

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

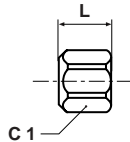
Metrulok fitting

T24HG - Tube end female adaptor - BSPP



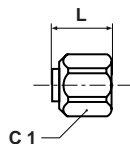
1	B	Codice	C	J	L	Peso g.
6	1/8	T24HGB6-1/8	14	8	30	16
6	1/4	T24HGB6-1/4	19	10	32	28
8	1/8	T24HGB8-1/8	14	8	31	15
8	1/4	T24HGB8-1/4	19	10	33	28
10	1/4	T24HGB10-1/4	19	10	34	32
10	3/8	T24HGB10-3/8	22	12	36	40
12	3/8	T24HGB12-3/8	22	12	36	38
12	1/2	T24HGB12-1/2	27	14	40	68
14	3/8	T24HGB14-3/8	22	12	37	39
14	1/2	T24HGB14-1/2	27	14	41	80
16	1/2	T24HGB16-1/2	27	14	42	67
18	1/2	T24HGB18-1/2	27	14	46	79
20	3/4	T24HGB20-3/4	32	16	47	95
22	3/4	T24HGB22-3/4	32	16	49	106

BM - Nut



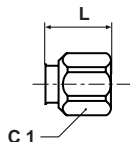
Tube	Part number	C1	L	Weight g.
4	BMB4	10	11	4
6	BMB6	12	12	6
8	BMB8	14	13	8
10	BMB10	17	13	11
12	BMB12	19	14	13
14	BMB14	22	15	22
16	BMB16	27	15	31
18	BMB18	30	19	70
20	BMB20	32	19	65
22	BMB22	36	20	46

BTM - Nut + ferrule



Tube	Part number	C1	L	Weight g.
4	BTMB4	10	12	5
6	BTMB6	12	13	7
8	BTMB8	14	14	10
10	BTMB10	17	14	13
12	BTMB12	19	15	15
14	BTMB14	22	16	25
16	BTMB16	27	16	34
18	BTMB18	30	21	77
20	BTMB20	32	21	73
22	BTMB22	36	22	55

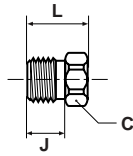
FNM - Fitting body cap



Tube	Part number	C1	L	Weight g.
4	FNMB4	10	12	6
6	FNMB6	12	13	9
8	FNMB8	14	14	13
10	FNMB10	17	14	17
12	FNMB12	19	15	21
14	FNMB14	22	16	34
16	FNMB16	27	16	82
18	FNMB18	30	21	96
20	FNMB20	32	21	94
22	FNMB22	36	22	85

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

PNM - Tube plug



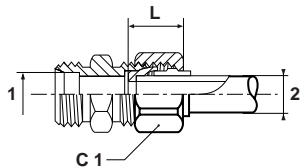
Tube	Part number	C	J	L	Weight g.
4	PNMB4	8	7	11	4
6	PNMB6	10	8	13	6
8	PNMB8	12	9	15	9
10	PNMB10	14	9	15	11
12	PNMB12	17	10	16	16
14	PNMB14	19	11	17	20
16	PNMB16	22	11	18	32
18	PNMB18	24	12	20	44
20	PNMB20	27	12	20	50
22	PNMB22	30	13	22	69

TM - Ferrule



Tube	Part number	L	Weight g.
4	TMB4A	10	1
6	TMB6A	10	1
8	TMB8A	10	2
10	TMB10A	10	2
12	TMB12A	10	2
14	TMB14A	10	3
16	TMB16A	10	3
18	TMB18A	14	7
20	TMB20A	14	8
22	TMB22A	14	9

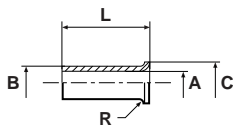
TRBM - Tube end reducer



1	2	Part number	C1	L	Weight g.
6	4	TRBMB6-4	12	14	9
8	4	TRBMB8-4	14	15	13
8	6	TRBMB8-6	14	15	11
10	6	TRBMB10-6	17	16	20
10	8	TRBMB10-8	17	16	19
12	8	TRBMB12-8	19	16	25
12	10	TRBMB12-10	19	16	22
14	10	TRBMB14-10	22	18	35
14	12	TRBMB14-12	22	18	32
16	12	TRBMB16-12	27	19	36
16	14	TRBMB16-14	27	19	33
18	14	TRBMB18-14	30	21	48
20	16	TRBMB20-16	32	21	57
22	18	TRBMB22-18	36	21	84

Composed of : a reduction cone, a special nut and a standard ferrule.

T23U - Tube insert



With plastic tubing, except polyamide 11 or 12, we recommend the use of a tube insert for positive holding of the tube. Tube inserts are available for alternative

Tube	Part number	A	B	C	L ±0.50	R Maxi	Weight g.
4/6	T23UB4	3.2	4.0	5.0	10	0.6	1
6/8	T23UB6	4.8	6.0	7.9	15	0.6	1
8/10	T23UB8	7.0	8.0	10.0	15	1.0	2
10/12	T23UB10	9.0	10.0	12.0	15	1.0	2
12/14	T23UB12	11.0	12.0	14.8	15	1.0	4

PL

*Nickel plated brass fitting
for plastic tubing*











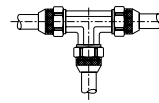
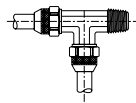
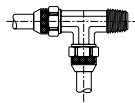
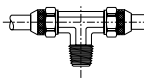
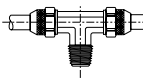


Catalogue 0017-UK



PL fitting

H

Index

<p>Straight connectors</p>	 male - NPT FBPL - p. H 6	 male - BSPT F3BPL - p. H 6	 male - BSPP F4BPL - p. H 7	 male - metric F8BPL - p. H 7	 union HBPL - p. H 7
<p>Bulkhead connectors</p>	 union WBPL - p. H 7				
<p>90° elbows</p>	 male - NPT CBPL - p. H 8	 male - BSPT C3BPL - p. H 8	 male - BSPP C4BPL - p. H 8	 male - metric C8BPL - p. H 9	
<p>Tees</p>	 union JBPL - p. H 9	 male run - NPT RBPL - p. H 9	 male run - BSPT R3BPL - p. H 9	 male branch - NPT SBPL - p. H 10	 male branch - BSPT S3BPL - p. H 10
<p>Banjo</p>	 single / assembled BSP COR4BPL - p. H 11				
<p>Nut</p>	 nut BPLM - p. H 11				

H

PL fitting

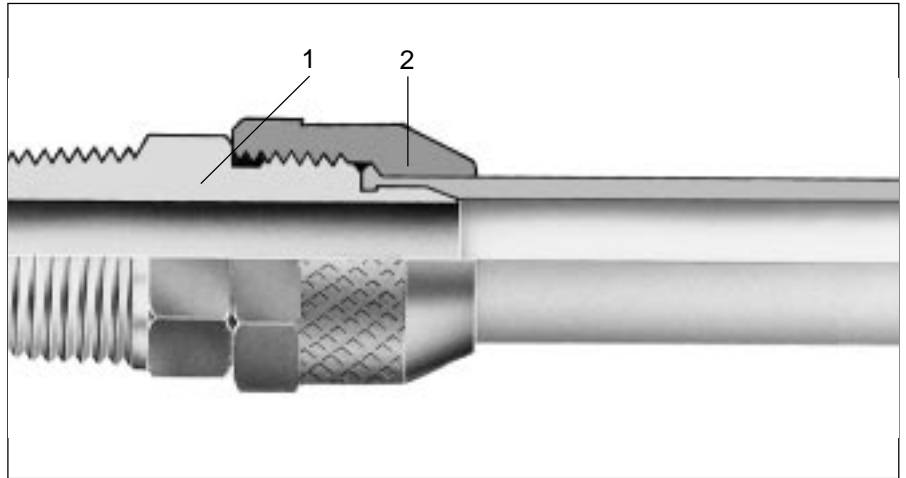
Principle

PL is a two piece nickel plated brass fitting specifically designed for flexible tubing such as polyamide, polyurethane, PEBA, polyethylene, PTFE, PVC, etc.

The seal is obtained by the bead formed at the tube end when the nut is tightened to the fitting body.

The connection is leakproof to the burst pressure of the tube.

PL fittings can be assembled and disassembled repeatedly.



Technical features

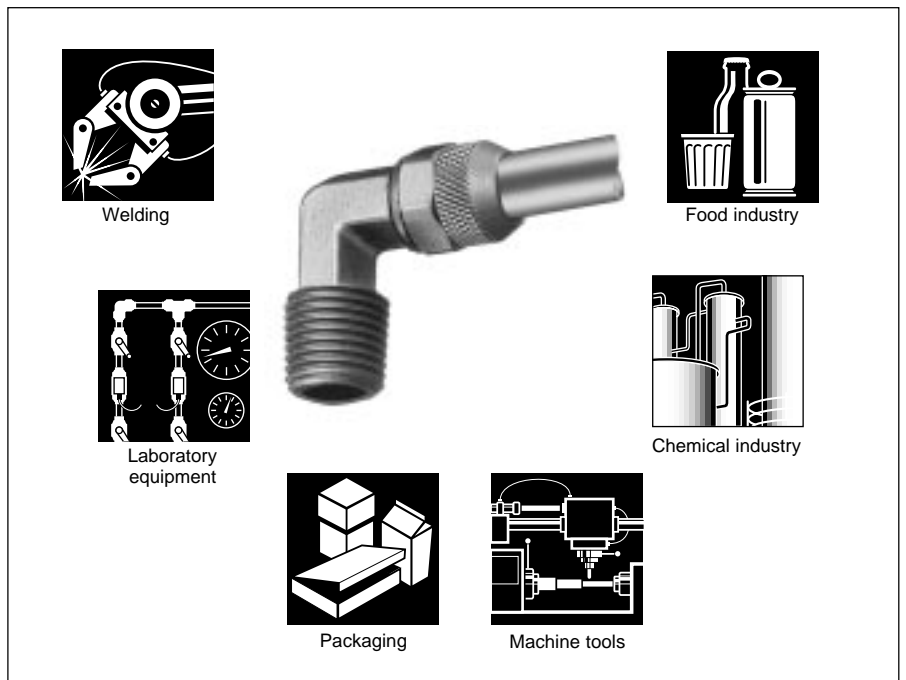
Material		Working pressure*	Working temperature
1	2		
Body	Nut	From 0.01 to 40 bar	From - 40°C to + 100° C
Nickel plated brass	Nickel plated brass		

* The pressures given are with polyamide tubing. For other tubing please consult us.

Applications

The PL fitting's unique sealing method make it ideally suited for use with a wide variety of media.

It is particularly suitable for use in fluid handling applications where media or temperature considerations limit the method of sealing.

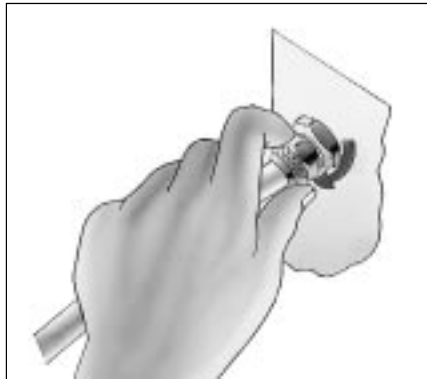


Advantages



Tube nut design

- Compact for fast and safe assembly
- Knurled nut facilitates finger tightening.
- A positive stop prevents over-tightening.



Rapid assembly

PL fittings can be assembled finger tight when used with soft tubing e.g. polyurethane, polyethylene, etc. This facilitates rapid assembly and disassembly.

Maximum tensile pull out force of polyamide 11 tube from a PL fitting

Tube I.D./O.D. mm	Tensile force daN
2.7/4	11
4/6	41
6/8	52
7.5/10	88
8/10	67
10/12	79
11/14	149

Excellent pull out resistance

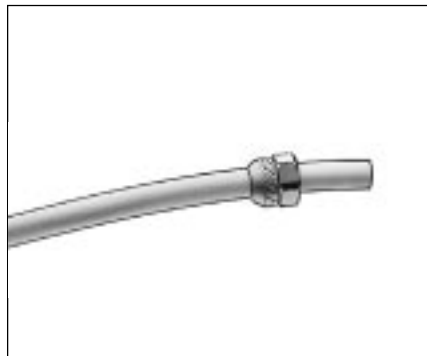
The clamping of the tube between the spigot of the PL fitting body and the tube nut creates an effective seal with a high pull out performance. This is particularly useful in severe operating conditions.

The chart above indicates the average pull out values for polyamide tubing when used with a PL fitting.

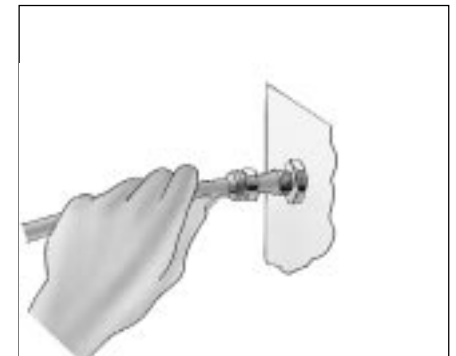
Assembly instructions



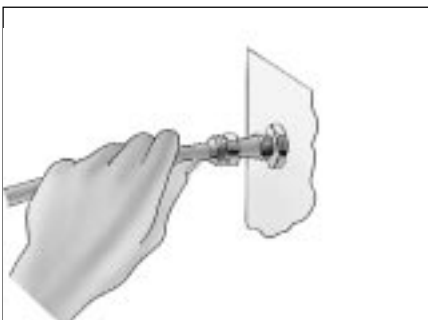
Cut the tube square



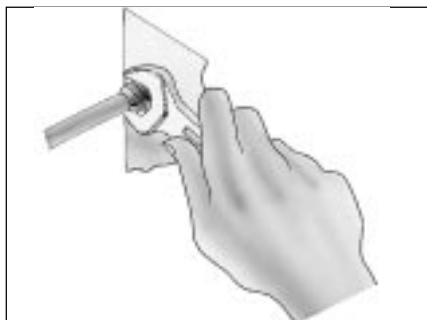
Insert the tube through the nut



Push the tube over the spigot of the fitting until it comes into contact with the stop



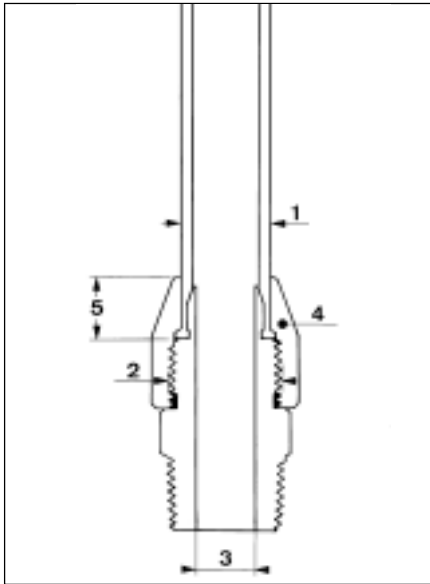
Finger tighten the nut to the end stop when using soft tubing.



Tighten the nut with a spanner to the end stop when using semi-rigid tubing.

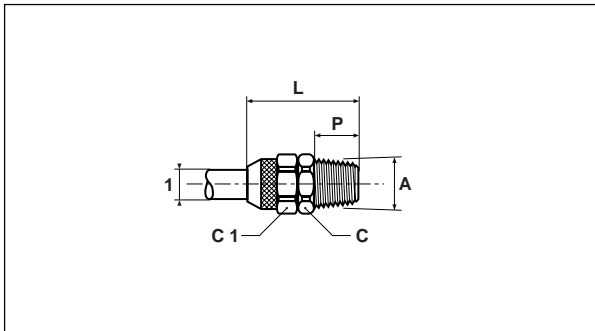
PL fitting

Fitting dimensions



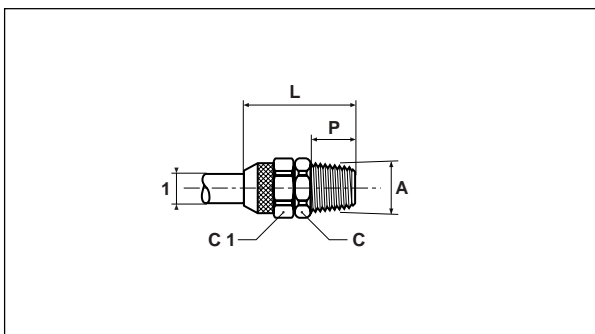
1 Tube I.D./O.D. mm	2 Metric pipe thread	3 Inside diameter mm	4 Hex of nut mm	5 Tube entry mm
2.7/4	M6x0.75	1.5	8	4.5
4/6	M9x0.75	3.0	11	6.5
6/8	M11x0.75	5.0	13	6.5
7.5/10	M13x1	6.5	17	7.0
8/10	M13x1	6.5	17	7.0
10/12	M15x1.25	9.0	17	7.5
11/14	M18x1.50	9.5	22	8.5

FBPL - Male connector - NPT



1	A	Part number	C	C1	L	P	Weight g.
2.7/4	1/8	FBPL2.7/4-1/8	11	8	22	8	11
4/6	1/8	FBPL4/6-1/8	11	11	25	8	16
4/6	1/4	FBPL4/6-1/4	14	11	29	12	26
6/8	1/8	FBPL6/8-1/8	12	13	25	8	16
6/8	1/4	FBPL6/8-1/4	14	13	29	12	23
8/10	1/4	FBPL8/10-1/4	14	16	30	12	31
8/10	3/8	FBPL8/10-3/8	19	16	31	12	40
10/12	3/8	FBPL10/12-3/8	19	17	33	12	40

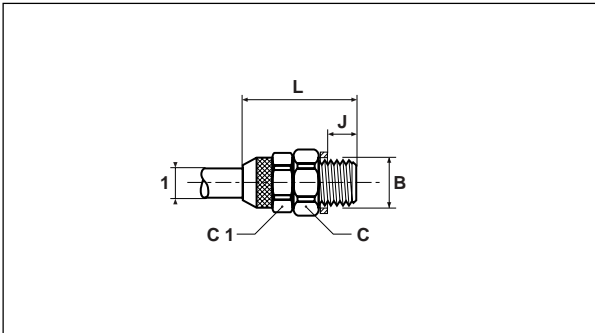
F3BPL - Male connector - BSPT



1	A	Part number	C	C1	L	P	Weight g.
2.7/4	1/8	F3BPL2.7/4-1/8	10	8	20.5	6.5	9
4/6	1/8	F3BPL4/6-1/8	10	11	23.5	6.5	16
4/6	1/4	F3BPL4/6-1/4	14	11	26.5	10.0	25
6/8	1/8	F3BPL6/8-1/8	12	13	23.5	6.5	15
6/8	1/4	F3BPL6/8-1/4	14	13	26.5	10.0	23
6/8	3/8	F3BPL6/8-3/8	17	13	27.6	10.0	26
7.5/10	1/4	F3BPL7.5/10-1/4	14	16	27.5	10.0	31
7.5/10	3/8	F3BPL7.5/10-3/8	17	16	28.6	10.0	37
8/10	1/4	F3BPL8/10-1/4	14	16	27.5	10.0	31
8/10	3/8	F3BPL8/10-3/8	17	16	28.6	10.0	43
10/12	3/8	F3BPL10/12-3/8	17	17	30.1	10.0	36
11/14	3/8	F3BPL11/14-3/8	19	22	32.5	10.0	58

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

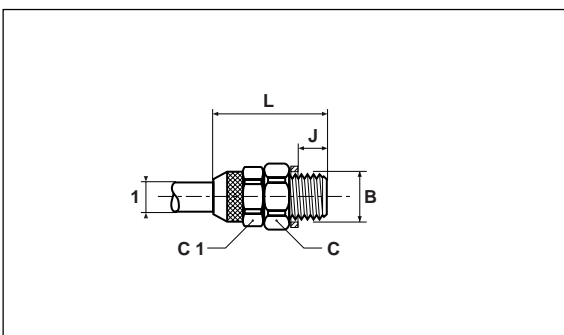
F4BPL - Male connector - BSPP



1	B	Part number	C	C1	J	L	Weight g.
4/6	1/8	F4BPL4/6-1/8	14	11	8	26	21
6/8	1/4	F4BPL6/8-1/4	17	13	9	28	30

These parts are supplied with a copper seal.

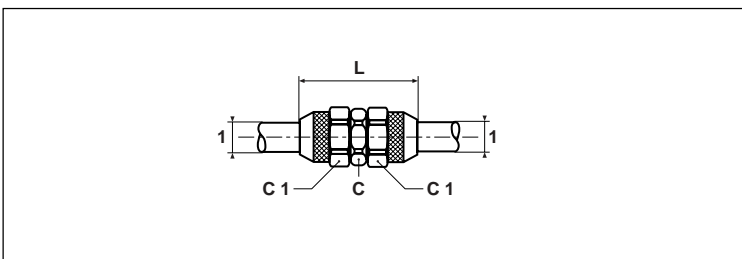
F8BPL - Male connector - metric straight thread



1	B	Part number	C	C1	J	L	Weight g.
6/8	M10x1	F8BPL6/8M10	14	13	7	28	21
6/8	M12x1.25	F8BPL6/8M12	17	13	7	28	24

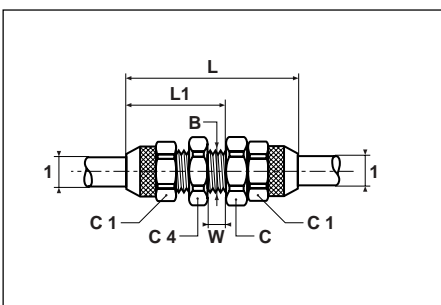
These parts are supplied with a copper seal.

HBPL - Equal union



1	Part number	C	C1	L	Weight g.
2.7/4	HBPL2.7/4	7	8	24	10
4/6	HBPL4/6	10	11	30	21
6/8	HBPL6/8	12	13	30	22
8/10	HBPL8/10	14	16	32	43
10/12	HBPL10/12	16	17	36	56
11/14	HBPL11/14	19	22	40	87

WBPL - Bulkhead union

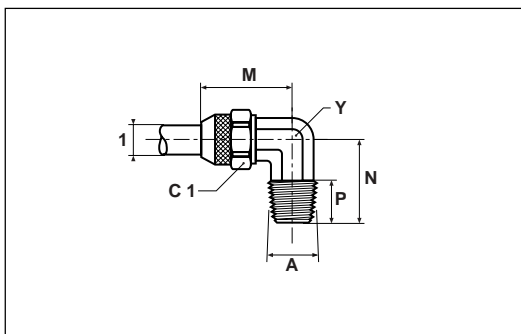


1	Part number	B	C	C1	C4	L	L1	W	Weight g.
4/6	WBPL4/6	M9x0.75	13	11	13	39	22	5	30
6/8	WBPL6/8	M11x0.75	14	13	16	39	22	5	32
8/10	WBPL8/10	M13x1	16	16	17	43	24	5	57
10/12	WBPL10/12	M15x1.25	19	17	19	46	26	5	64
11/14	WBPL11/14	M18x1.5	22	22	22	50	28	5	112

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

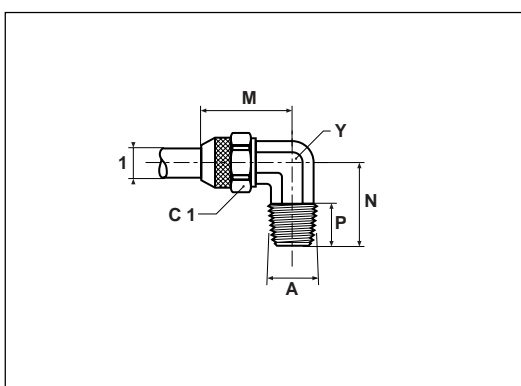
PL fitting

CBPL - 90° male elbow - NPT



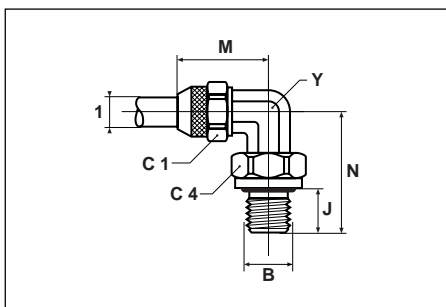
1	A	Part number	C1	M	N	P	Y	Weight g.
2.7/4	1/8	CBPL2.7/4-1/8	8	22	18	8	8	19
4/6	1/8	CBPL4/6-1/8	11	24	18	8	8	23
4/6	1/4	CBPL4/6-1/4	11	25	23	12	10	36
6/8	1/8	CBPL6/8-1/8	13	25	19	8	10	27
6/8	1/4	CBPL6/8-1/4	13	25	23	12	10	34
8/10	1/4	CBPL8/10-1/4	16	28	24	12	12	58
8/10	3/8	CBPL8/10-3/8	16	28	25	12	12	59
10/12	3/8	CBPL10/12-3/8	17	32	27	12	14	51

C3BPL - 90° male elbow - BSPT



1	A	Part number	C1	M	N	P	Y	Weight g.
2.7/4	1/8	C3BPL2.7/4-1/8	8	22	17.0	6.5	8	18
4/6	1/8	C3BPL4/6-1/8	11	24	17.0	6.5	8	22
4/6	1/4	C3BPL4/6-1/4	11	25	21.5	10.0	10	31
6/8	1/8	C3BPL6/8-1/8	13	25	18.0	6.5	10	25
6/8	1/4	C3BPL6/8-1/4	13	25	21.5	10.0	10	31
6/8	3/8	C3BPL6/8-3/8	13	27	23.1	10.0	12	50
7.5/10	1/4	C3BPL7.5/10-1/4	16	28	22.5	10.0	12	57
7.5/10	3/8	C3BPL7.5/10-3/8	16	28	23.1	10.0	12	58
8/10	1/4	C3BPL8/10-1/4	16	28	21.5	10.0	12	57
8/10	3/8	C3BPL8/10-3/8	16	28	23.1	10.0	12	58
10/12	3/8	C3BPL10/12-3/8	17	32	25.1	10.0	14	52
11/14	3/8	C3BPL11/14-3/8	22	34	25.1	10.0	16	94

C4BPL - 90° male elbow - BSPP

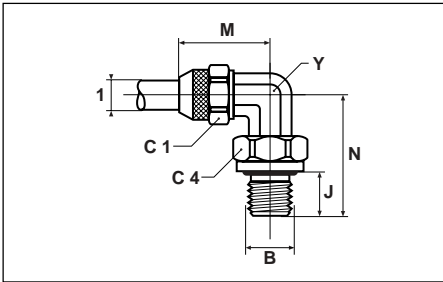


1	B	Part number	C1	C4	J	M	N	Y	Weight g.
6/8	1/4	C4BPL6/8-1/4	13	13	7	27	27	12	63

These fittings are supplied with nitrile seals.

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

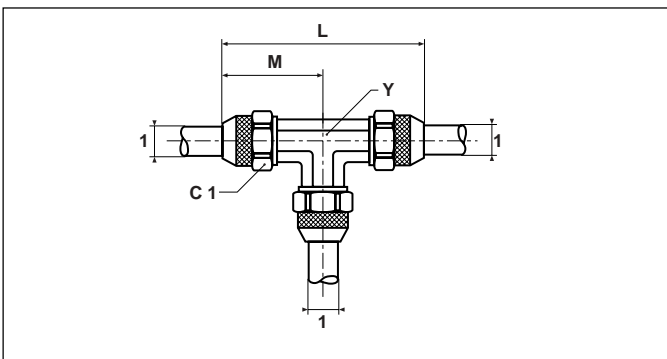
C8BPL - 90° male elbow - metric straight thread



1	B	Part number	C1	C4	J	M	N	Y	Weight g.
6/8	M10x1	C8BPL6/8M10	13	13	7	22	22	10	31
6/8	M12x1	C8BPL6/8M12	13	13	7	25	26	12	59

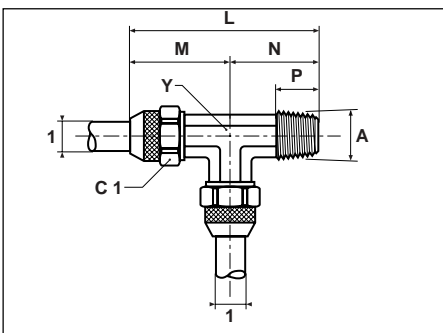
These fittings are supplied with nitrile seals.

JBPL - Union tee



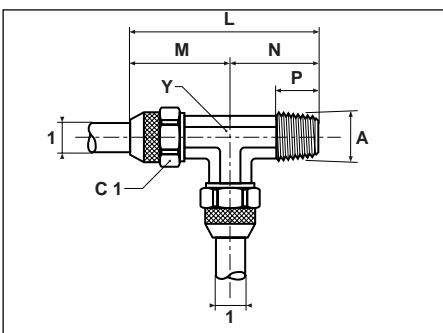
1	Part number	C1	L	M	Y	Weight g.
2.7/4	JBPL2.7/4	8	44	22	8	24
4/6	JBPL4/6	11	48	24	8	42
6/8	JBPL6/8	13	50	25	10	45
7.5/10	JBPL7.5/10	16	56	28	12	86
8/10	JBPL8/10	16	56	28	12	85
10/12	JBPL10/12	17	64	32	14	100
11/14	JBPL11/14	22	68	34	16	168

RBPL - Male run tee - NPT



1	A	Part number	C1	L	M	N	P	Y	Weight g.
4/6	1/8	RBPL4/6-1/8	11	42	24	18	8	8	37
4/6	1/4	RBPL4/6-1/4	11	48	25	23	12	10	50
6/8	1/4	RBLP6/8-1/4	13	48	25	23	12	10	46

R3BPL - Male run tee - BSPT

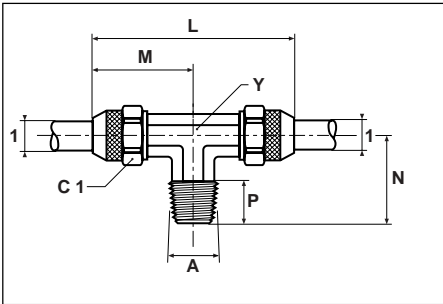


1	A	Part number	C1	L	M	N	P	Y	Weight g.
4/6	1/8	R3BPL4/6-1/8	11	42	24	17.0	6.5	8	35
4/6	1/4	R3BPL4/6-1/4	11	48	25	21.5	10.0	10	48
6/8	1/8	R3BPL6/8-1/8	13	44	25	18.0	6.5	10	37
6/8	1/4	R3BLP6/8-1/4	13	48	25	21.5	10.0	10	45

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

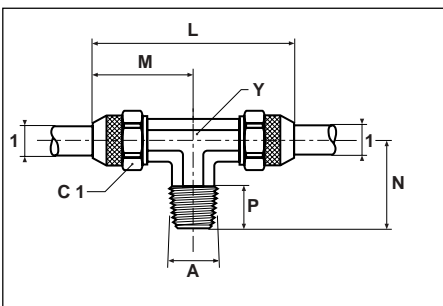
PL fitting

SBPL - Male branch tee - NPT



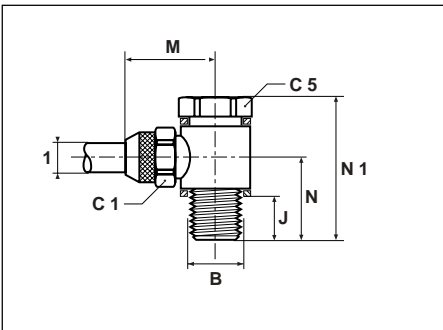
1	A	Part number	C1	L	M	N	P	Y	Weight g.
4/6	1/8	SBPL4/6-1/8	11	48	24	18	8	8	35
4/6	1/4	SBPL4/6-1/4	11	50	25	23	12	10	50
6/8	1/4	SBPL6/8-1/4	13	50	25	23	12	10	49

S3BPL - Male branch tee - BSPT



1	A	Part number	C1	L	M	N	P	Y	Weight g.
4/6	1/8	S3BPL4/6-1/8	11	48	24	17.0	6.5	8	35
4/6	1/4	S3BPL4/6-1/4	11	50	25	21.5	10.0	10	47
6/8	1/8	S3BPL6/8-1/8	13	50	25	18.0	6.5	10	38
6/8	1/4	S3BPL6/8-1/4	13	50	25	21.5	10.0	10	45

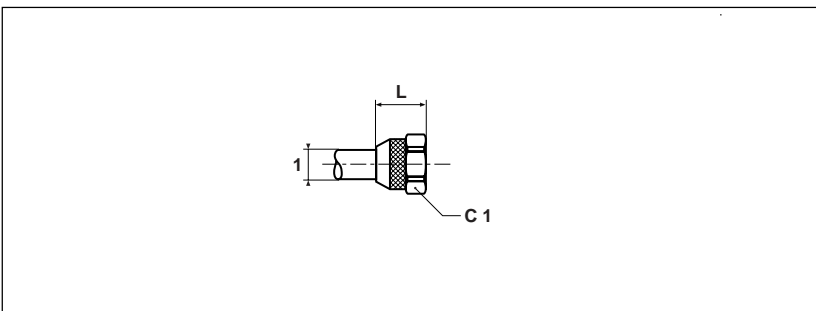
COR4BPL - Single banjo - BSPP



1	B	Part number	C1	C5	J	M	N	N1	Weight g.
4/6	1/8	COR4BPL4/6-1/8	11	14	7	24	16	27	68
4/6	1/4	COR4BPL4/6-1/4	11	19	8	26	17	29	96
6/8	1/8	COR4BPL6/8-1/8	13	14	7	25	16	27	68
6/8	1/4	COR4BPL6/8-1/4	13	19	8	27	17	30	96

These parts are supplied with peripheral seals. The banjo bolt is made of steel.

BPLM - Nut



1	Part number	C1	L	Weight g.
2.7/4	BPL4M	8	10	3
4/6	BPL6M	11	13	6
6/8	BPL8M	13	13	8
7.5/10	BPL10M	16	14	14
8/10	BPL10M	16	14	14
10/12	BPL12M	17	16	12
11/14	BPL14M	22	18	25

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

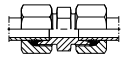

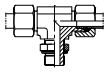




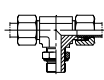


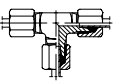

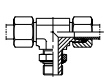


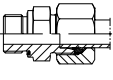

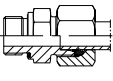
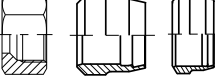
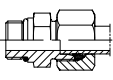

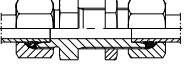



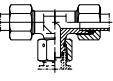


**EO[®] Ermeto Original
Bite Type
Tube Fitting Systems**

Catalogue 4100-1-UK





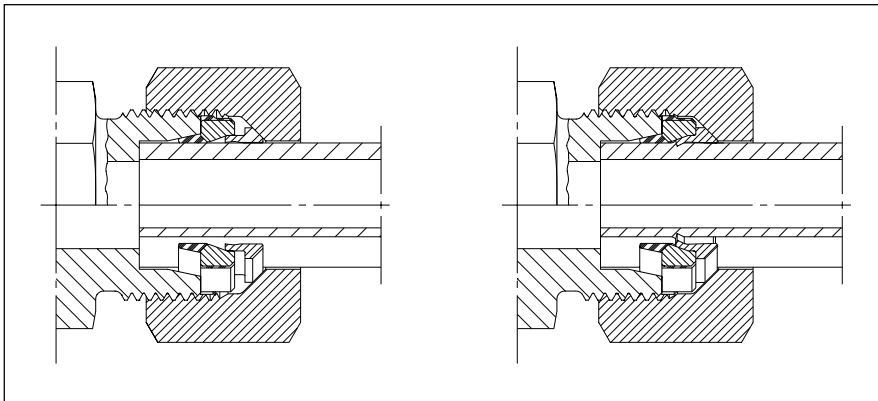
Index

Union	 G p. 17	Locknut Adjustables BSPB thread	 WEE-R p. 120	 TEE-R p. 121	 LEE-R p. 122	 VEE-R p. 123
Union Elbow	 W p. 18	Locknut Adjustables metric thread	 WEE-M p. 124	 TEE-M p. 125	 LEE-M p. 126	 VEE-M p. 127
Union Tee	 T p. 19	Locknut Adjustables UNF/UN thread	 WEE-UNF p. 128	 TEE-UNF p. 129	 LEE-UNF p. 130	 VEE-UNF p. 131
Male Stud Connector BSPB thread	 GE-R-ED p. 110-11	EO-2 Functional Nut	 FM p. 132-33			
Male Stud Connector Metric thread	 GE-M-ED p. 112-13	Nut Progressive Ring Cutting Ring	 M.DPR.D p. 134-35			
Male Stud Connector UNF/UN thread	 GE-UNF/UN p. 114-15	Bulkhead Fitting Nut	 G M p. 136			
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Swivel Nut Elbow Fitting	 EW p. 117	Blanking Plug for ports	 VST1-R/M-ED p. 138			
Swivel Nut Branch Tee Fitting	 ET p. 118	Support Sleeve for plastic tubes	 E p. 139			
Swivel Nut Run Tee Fitting	 EL p. 119	SensoControl	SCM-150 p. 140 to 43			

Ermeto Original

EO Tube Fitting Systems

EO-2 - Dry Technology

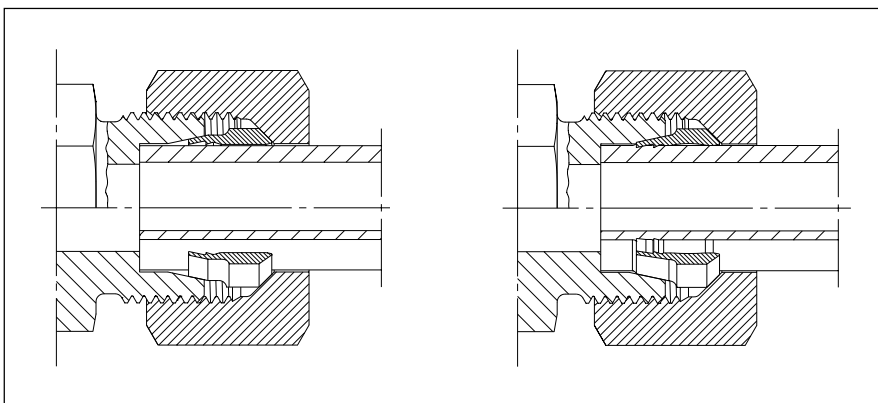


Before assembly

After assembly

Steel
with NBR sealing
or
Stainless steel 1.4571
with FPM sealing

DPR - Progressive Ring

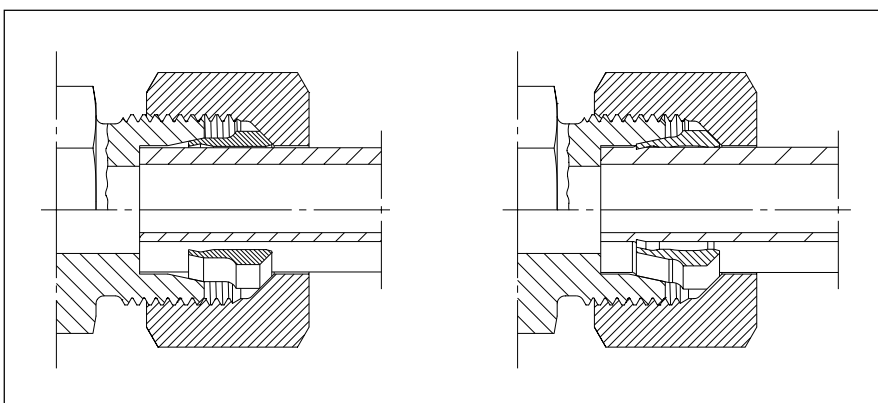


Before assembly

After assembly

Steel
or
Stainless steel 1.4571

D - Cutting Ring



Before assembly

After assembly

Brass

Pressure Ratings

Nominal Pressure PN

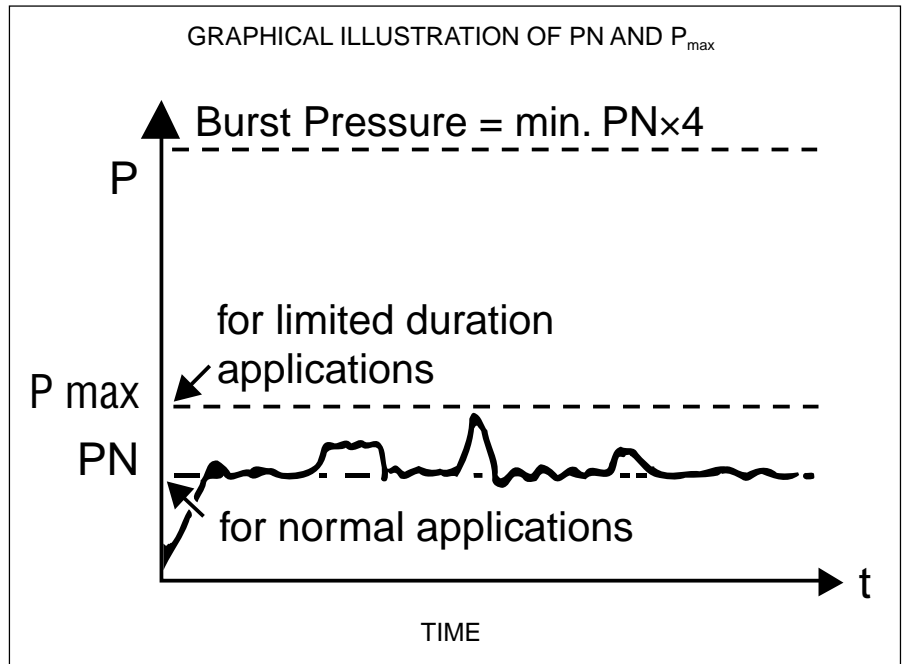
The Nominal Pressure PN is a figure relating to the pressure rating of a fluid component for continuous dynamic applications. It is rounded to correspond to internationally standardised ratings. Logical series of fittings are grouped together, with the nominal pressure of the group being that of the "lowest common denominator" within the group.

Internationally, these nominal pressures are recognised and serve to match common sizes of components together.

Parts with a stated PN value are able to withstand normal, non-continuous pressure peaks from PN to the P_{max} value. To prove the long term dynamic load resistance, components are tested under impulse conditions of $PN \times 1.33$, at 1 Hz for 1 million cycles.

P_{max}

P_{max} is the maximum working pressure of a component including the pressure peaks, for limited duration applications. If a component is used over the full dynamic range from zero pressure to P_{max} , it will withstand at least 200,000 cycles leakfree. Static burst test pressures are at least 2.5 times the P_{max} value. Components are tested under impulse conditions of P_{max} , at 1 Hz for 200,000 cycles.



Note:

The older catalogue designation of PB will be renamed P_{max} . Parts that are involved will have P_{max} values equal to the old PB values (shown in only one column). The rating is involved are still the maximum level of continuous dynamic load.

Temperature range for sealing materials

NBR (e. g. Perbunan) -35 to +100°C
 FPM (e. g. PTFE) -25 to +200°C

Perbunan = registered trademark of Bayer.

The temperature limits specified for sealing materials are approximate values, since the temperature limits can be greatly influenced by the medium.

When combining the different fitting and sealing materials, the lowest temperature limit in each case is applicable.

Pressure reductions

Pressure ratings PN and Pmax have to be reduced according to temperature

Fitting Material	Temperatur Range	Pressure Reduction
Steel	-40 to +120°C	–
Brass	-60 to +175°C	35 %
Stainless Steel 1.4571	-60 to +20°C	–
Stainless Steel 1.4571	+50°C	4 %
Stainless Steel 1.4571	+100°C	11 %
Stainless Steel 1.4571	+200°C	20 %
Stainless Steel 1.4571	+300°C	29 %
Stainless Steel 1.4571	+400°C	33 %

Intermediate values are to be interpolated.

If the tube material used deviates from the fitting material, the tube is to be checked separately with regard to the permissible temperature range and the pressure reductions required. Male stud fittings may require additional pressure reductions, due to the mating port material and the sealing system must also be taken into account.

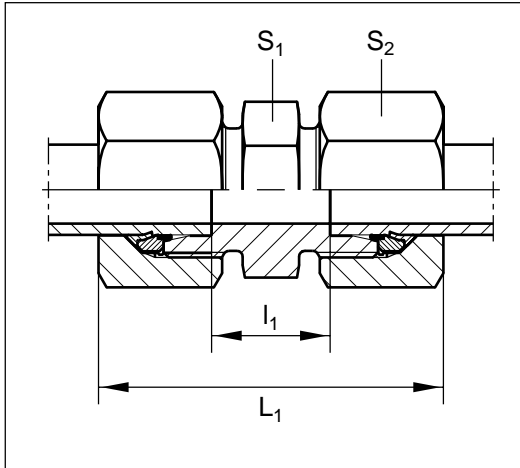
If different stipulations for special applications are made by standards, regulations or approvals with regard to permissible pressure reductions to be applied if necessary, then these stipulations made are binding.

These pressure and safety specifications are based on all assemblies being in accordance with Parker-Ermeto instructions.

It is further assumed that the tube routing will be laid and clamped in such a fashion that no additional stress, load or tension may act on the fittings. Tube fixtures are to be laid with sufficient stability according to the operating conditions and connected with supports. EO tube clamps are recommended for simple, problem-free assembly.

G - Union

EO tube end / EO tube end



Series	Tube O.D.	PN (bar)	P _{max} (bar)	L ₁	l ₁	S ₁	S ₂	Weight g./1 piece
LL	04	100	250	31	12	9	10	15
	06	100	250	32	9	11	12	20
	08	100	250	35	12	12	14	25
	10	100	250	35	12	14	17	38
	12	100	250	35	11	17	19	45
L	06	315	500	39	10	12	14	35
	08	315	500	40	11	14	17	51
	10	315	500	42	13	17	19	65
	12	315	400	43	14	19	22	86
	15	315	400	46	16	24	27	142
	18	315	400	48	16	27	32	202
	22	160	250	52	20	32	36	269
	28	160	250	54	21	41	41	333
	35	160	250	63	20	46	50	523
	42	160	250	66	21	55	60	775

Series	Tube O.D.	Dry Technology EO-2 steel	DPR steel*	Dry Technology EO-2 stainless steel	DPR stainless steel*	D brass
LL	04	G04ZLLA3C	G04LLA3C		G04LL71	G04LLMS
	06	G06ZLLA3C	G06LLA3C		G06LL71	G06LLMS
	08		G08LLA3C		G08LL71	G08LLMS
	10		G10LLA3C		G10LL71	G10LLMS
	12		G12LLA3C		G12LL71	G12LLMS
L	06	G06ZLA3C	G06LA3C	G06ZL71	G06L71	G06LMS
	08	G08ZLA3C	G08LA3C	G08ZL71	G08L71	G08LMS
	10	G10ZLA3C	G10LA3C	G10ZL71	G10L71	G10LMS
	12	G12ZLA3C	G12LA3C	G12ZL71	G12L71	G12LMS
	15	G15ZLA3C	G15LA3C	G15ZL71	G15L71	G15LMS
	18	G18ZLA3C	G18LA3C	G18ZL71	G18L71	G18LMS
	22	G22ZLA3C	G22LA3C	G22ZL71	G22L71	G22LMS
	28	G28ZLA3C	G28LA3C	G28ZL71	G28L71	G28LMS
	35	G35ZLA3C	G35LA3C	G35ZL71	G35L71	G35LMS
	42	G42ZLA3C	G42LA3C	G42ZL71	G42L71	G42LMS

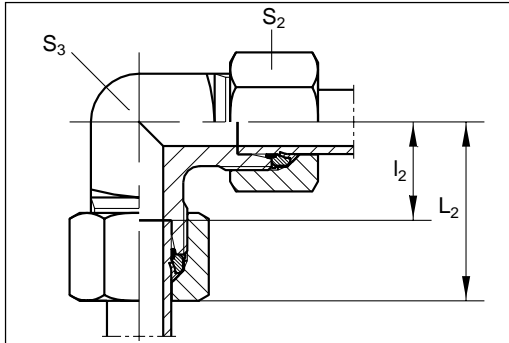
Without nut and ring:

Example → **G06LA3CX** **G06LA3CX** **G06L71X** **G06L71X** **G06LMSX**

*Series LL with D-ring.

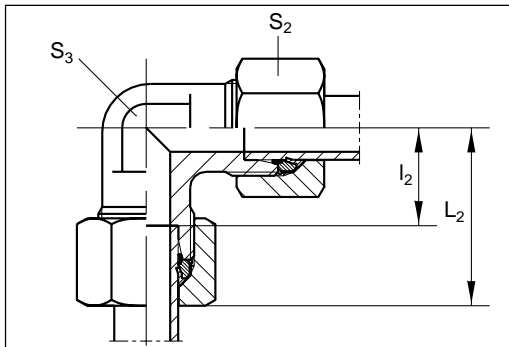
W - Union Elbow

EO tube end / EO tube end



Profile body (steel and brass):
 Series LL 4–12 mm Tube O.D.
 Series L 6–12 mm Tube O.D.

Series	Tube O.D.	PN (bar)	P _{max} (bar)	L ₂	l ₂	S ₂	S ₃	S ₃ **	Weight g./1 piece
LL	04	100	250	21	11.0	10	9	9	23
	06	100	250	21	9.5	12	11	9	28
	08	100	250	23	11.5	14	12	12	38
	10	100	250	24	12.5	17	14	12	56
	12	100	250	25	13.0	19	17	14	72
L	06	315	500	27	12.0	14	12	12	52
	08	315	500	29	14.0	17	14	12	77
	10	315	500	30	15.0	19	17	14	100
	12	315	400	32	17.0	22	19	17	136
	15	315	400	36	21.0	27	19	19	167
	18	315	400	40	23.5	32	24	24	249
	22	160	250	44	27.5	36	27	27	330
	28	160	250	47	30.5	41	36	36	454
	35	160	250	56	34.5	50	41	41	710
	42	160	250	63	40.0	60	50	50	1088



**only stainless steel

Series	Tube O.D.	Dry Technology EO-2 steel	DPR steel*	Dry Technology EO-2 stainless steel	DPR stainless steel*	D brass
LL	04	W04ZLLA3C	W04LLA3C		W04LL71	W04LLMS
	06	W06ZLLA3C	W06LLA3C		W06LL71	W06LLMS
	08		W08LLA3C		W08LL71	W08LLMS
	10		W10LLA3C		W10LL71	W10LLMS
	12		W12LLA3C		W12LL71	W12LLMS
L	06	W06ZLA3C	W06LA3C	W06ZL71	W06L71	W06LMS
	08	W08ZLA3C	W08LA3C	W08ZL71	W08L71	W08LMS
	10	W10ZLA3C	W10LA3C	W10ZL71	W10L71	W10LMS
	12	W12ZLA3C	W12LA3C	W12ZL71	W12L71	W12LMS
	15	W15ZLA3C	W15LA3C	W15ZL71	W15L71	W15LMS
	18	W18ZLA3C	W18LA3C	W18ZL71	W18L71	W18LMS
	22	W22ZLA3C	W22LA3C	W22ZL71	W22L71	W22LMS
	28	W28ZLA3C	W28LA3C	W28ZL71	W28L71	W28LMS
	35	W35ZLA3C	W35LA3C	W35ZL71	W35L71	W35LMS
	42	W42ZLA3C	W42LA3C	W42ZL71	W42L71	W42LMS

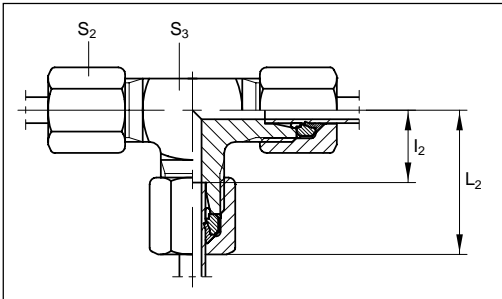
Without nut and ring:

Example → W06LA3CX W06LA3CX W06L71X W06L71X W06LMSX

*Series LL with D-ring.

T - Union Tee

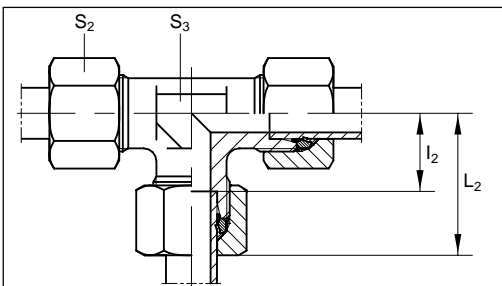
All 3 ends EO tube end



Profile body (steel and brass):

Series LL 4–10 mm Tube O.D.

Series L 6+8 mm Tube O.D.



Series	Tube O.D.	PN (bar)	P _{max} (bar)	L ₂	l ₂	S ₂	S ₃	S ₃ **	Weight g./1 piece
LL	04	100	250	21	11.0	10	9	9	29
	06	100	250	21	9.5	12	11	9	37
	08	100	250	23	11.5	14	12	12	50
	10	100	250	24	12.5	17	14	12	71
	12	100	250	27	15.0	19	14	14	69
L	06	315	500	27	12.0	14	12	12	72
	08	315	500	29	14.0	17	14	12	104
	10	315	500	30	15.0	19	14	14	105
	12	315	400	32	17.0	22	17	17	140
	15	315	400	36	21.0	27	19	19	237
	18	315	400	40	23.5	32	24	24	356
	22	160	250	44	27.5	36	27	27	462
	28	160	250	47	30.5	41	36	36	610
	35	160	250	56	34.5	50	41	41	953
	42	160	250	63	40.0	60	50	50	1410

**only stainless steel

Series	Tube O.D.	Dry Technology EO-2 steel	DPR steel*	Dry Technology EO-2 stainless steel	DPR stainless steel*	D brass
LL	04	T04ZLLA3C	T04LLA3C		T04LL71	T04LLMS
	06	T06ZLLA3C	T06LLA3C		T06LL71	T06LLMS
	08		T08LLA3C		T08LL71	T08LLMS
	10		T10LLA3C		T10LL71	T10LLMS
	12		T12LLA3C		T12LL71	T12LLMS
L	06	T06ZLA3C	T06LA3C	T06ZL71	T06L71	T06LMS
	08	T08ZLA3C	T08LA3C	T08ZL71	T08L71	T08LMS
	10	T10ZLA3C	T10LA3C	T10ZL71	T10L71	T10LMS
	12	T12ZLA3C	T12LA3C	T12ZL71	T12L71	T12LMS
	15	T15ZLA3C	T15LA3C	T15ZL71	T15L71	T15LMS
	18	T18ZLA3C	T18LA3C	T18ZL71	T18L71	T18LMS
	22	T22ZLA3C	T22LA3C	T22ZL71	T22L71	T22LMS
	28	T28ZLA3C	T28LA3C	T28ZL71	T28L71	T28LMS
	35	T35ZLA3C	T35LA3C	T35ZL71	T35L71	T35LMS
	42	T42ZLA3C	T42LA3C	T42ZL71	T42L71	T42LMS

Without nut and ring:

Example →

T06LA3CX

T06LA3CX

T06L71X

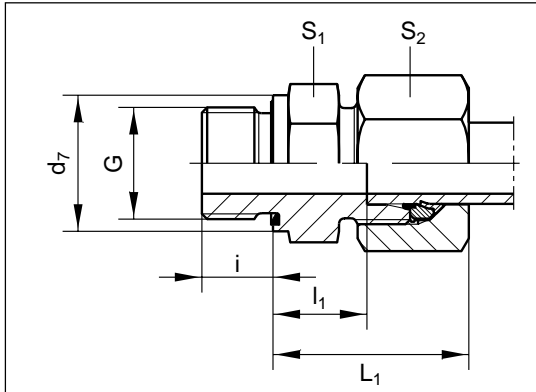
T06L71X

T06LMSX

*Series LL with D-ring.

GE-R-ED - Male Stud Connector

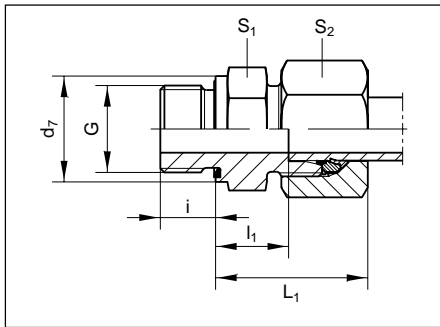
EO tube end / Male BSPP thread
DIN 3852, Form E: Eolastic Seal ED



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₁	l ₁	i	S ₂	S ₁	d ₇	Weight g./1 piece
LL	04	G1/8A	100	250	19	9.5	8	10	14	14	16
	06	G1/8A	100	250	20	8.0	8	12	14	14	17
L	06	G1/8A	315	500	23	8.5	8	14	14	14	25
	06	G1/4A	315	500	25	10.0	12	14	19	19	40
	06	G3/8A	315	500	26	11.5	12	14	22	22	50
	06	G1/2A	315	500	27	12.0	14	14	27	27	72
	08	G1/4A	315	500	25	10.0	12	17	19	19	44
	08	G1/8A	315	500	24	9.5	8	17	14	14	33
	08	G3/8A	315	500	26	11.5	12	17	22	22	62
	08	G1/2A	315	500	27	12.0	14	17	27	27	91
	10	G1/4A	315	500	26	11.0	12	19	19	19	48
	10	G1/8A	315	500	25	10.5	8	19	17	14	42
	10	G3/8A	315	500	27	12.5	12	19	22	22	64
	10	G1/2A	315	500	28	13.0	14	19	27	27	90
	12	G3/8A	315	400	27	12.5	12	22	22	22	70
	12	G1/8A	315	400	26	11.5	8	22	19	14	70
	12	G1/4A	315	400	27	12.0	12	22	19	19	57
	12	G1/2A	315	400	28	13.0	14	22	27	27	96
	12	G3/4A	315	400	29	14.0	16	22	32	32	147
	15	G1/2A	315	400	29	14.0	14	27	27	27	118
	15	G3/8A	315	400	29	13.5	12	27	24	22	100
	15	G3/4A	315	400	30	15.0	16	27	32	32	163
	18	G1/2A	315	400	31	14.5	14	32	27	27	138
	18	G3/8A	315	400	30	14.0	12	32	27	22	139
	18	G3/4A	315	400	31	14.5	16	32	32	32	178
	22	G3/4A	160	250	33	16.5	16	36	32	32	191
	22	G1/2A	160	250	33	16.5	14	36	32	27	180
	22	G1A	160	250	34	17.5	18	36	41	40	278
	28	G1A	160	250	34	17.5	18	41	41	40	268
	28	G3/4A	160	250	34	17.5	16	41	41	32	268
	28	G11/4A	160	250	35	18.5	20	41	50	50	414
	35	G11/4A	160	250	39	17.5	20	50	50	50	428
	35	G1A	160	250	39	17.5	18	50	46	40	407
	35	G11/2A	160	250	41	19.5	22	50	55	55	579
42	G11/2A	160	250	42	19.0	22	60	55	55	583	
42	G1A	160	250	42	19.0	18	60	55	40	559	
42	G11/4A	160	250	42	19.0	20	60	55	50	587	

GE-M-ED - Male Stud Connector

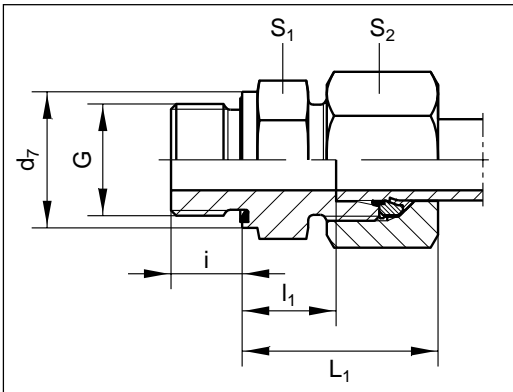
EO tube end / Male metric parallel thread with Eolastic seal ED



Series	Tube O.D.	G	PN (bar)	P_{max} (bar)	L_1	l_1	i	S_2	S_1	d_7	Weight g./1 piece
L	06	M10×1	315	500	23	8.5	8	14	14	14	25
	08	M12×1.5	315	500	25	10.0	12	17	17	17	39
	10	M14×1.5	315	500	26	11.0	12	19	19	19	50
	10	M12×1.5	315	500	26	11.0	12	19	17	17	46
	10	M16×1.5	315	500	24	12.5	12	19	22	22	61
	10	M18×1.5	315	500	27	12.5	12	19	24	24	71
	10	M22×1.5	315	500	29	14.0	14	19	27	27	101
	12	M16×1.5	315	400	27	12.5	12	22	22	22	68
	12	M14×1.5	315	400	26	11.0	12	22	19	19	57
	12	M18×1.5	315	400	27	12.5	12	22	24	24	75
	12	M22×1.5	315	400	29	14.0	14	22	27	27	103
	15	M18×1.5	315	400	29	13.5	12	27	24	24	97
	15	M16×1.5	315	400	28	13.0	12	27	24	22	95
	15	M22×1.5	315	400	30	15.0	14	27	27	27	123
	18	M22×1.5	315	400	31	14.5	14	32	27	27	142
	18	M18×1.5	315	400	30	14.0	12	32	27	24	136
	22	M26×1.5	160	250	33	16.5	16	36	32	32	192
	22	M22×1.5	160	250	33	16.5	14	36	32	32	186
	28	M33×2	160	250	34	17.5	18	41	41	40	267
	35	M42×2	160	250	39	17.5	20	50	50	50	437
42	M48×2	160	250	42	19.0	22	60	55	55	595	

GE-M-ED - Male Stud Connector

EO tube end / Male metric parallel thread with Eolastic seal ED



Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel	Dry Technology EO-2 stainless steel	DPR stainless steel
L	06	M10x1	GE06ZLMEDA3C	GE06LMEDA3C	GE06ZLMED71	GE06LMED71
	08	M12x1.5	GE08ZLMEDA3C	GE08LMEDA3C	GE08ZLMED71	GE08LMED71
	10	M14x1.5	GE10ZLMEDA3C	GE10LMEDA3C	GE10ZLMED71	GE10LMED71
	10	M12x1.5			GE10ZLM12x1.5ED71	GE10LM12X1.5ED71
	10	M16x1.5	GE10ZLM16X1.5EDA3C	GE10LM16X1.5EDA3C	GE10ZLM16x1.5ED71	GE10LM16X1.5ED71
	10	M18x1.5	GE10ZLM18X1.5EDA3C	GE10LM18X1.5EDA3C		
	10	M22x1.5	GE10ZLM22X1.5EDA3C	GE10LM22X1.5EDA3C		
	12	M16x1.5	GE12ZLMEDA3C	GE12LMEDA3C	GE12ZLMED71	GE12LMED71
	12	M14x1.5	GE12ZLM14X1.5EDA3C	GE12LM14X1.5EDA3C		
	12	M18x1.5	GE12ZLM18X1.5EDA3C	GE12LM18X1.5EDA3C		
	12	M22x1.5	GE12ZLM22X1.5EDA3C	GE12LM22X1.5EDA3C		
	15	M18x1.5	GE15ZLMEDA3C	GE15LMEDA3C	GE12ZLMED71	GE15LMED71
	15	M16x1.5	GE15ZLM16X1.5EDA3C	GE15LM16X1.5EDA3C		
	15	M22x1.5	GE15ZLM22X1.5EDA3C	GE15LM22X1.5EDA3C		
	18	M22x1.5	GE18ZLMEDA3C	GE18LMEDA3C	GE18ZLMED71	GE18LMED71
	18	M18x1.5	GE18ZLM18X1.5EDA3C	GE18LM18X1.5EDA3C		
	22	M26x1.5	GE22ZLMEDA3C	GE22LMEDA3C	GE22ZLMED71	GE22LMED71
	22	M22x1.5	GE22ZLM22X1.5EDA3C	GE22LM22X1.5EDA3C		
	28	M33x2	GE28ZLMEDA3C	GE28LMEDA3C	GE28ZLMED71	GE28LMED71
	35	M42x2	GE35ZLMEDA3C	GE35LMEDA3C	GE35ZLMED71	GE35LMED71
42	M48x2	GE42ZLMEDA3C	GE42LMEDA3C	GE42ZLMED71	GE42LMED71	

Without nut and ring:

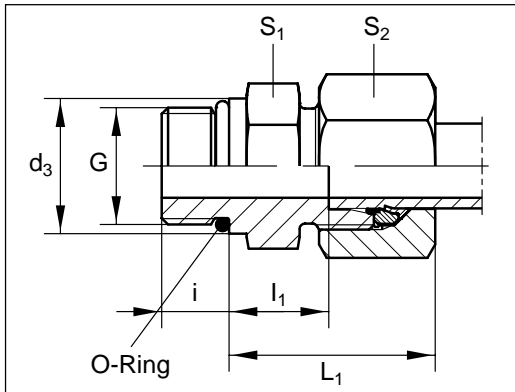
Example →

GE06LMEDOMDA3C GE06LMEDOMDA3C GE06LMEDOMD71 GE06LMEDOMD71

*Series LL with D-ring.

GE-UNF/UN - Male Stud Connector

EO tube end / UNF/UN parallel thread with O-ring seal



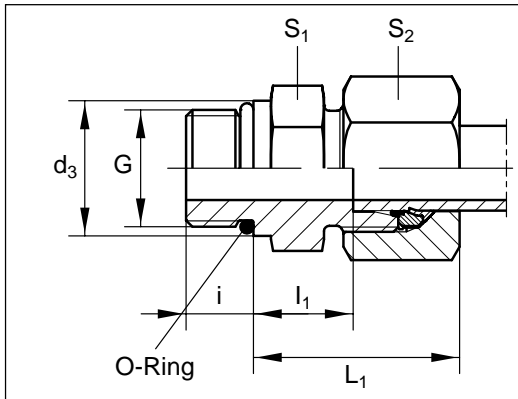
Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	d ₃	i	l ₁	L ₁	S ₁	S ₂	O-ring Shore-Hardness A approx. 90	Weight g./1 piece
L	08	7/16-20UNF-2A	315	500	14.4	9.0	10.0	25	17	17	OR8.92X1.83X	38
	10	7/16-20UNF-2A	315	500	14.4	10.0	11.0	26	17	19	OR8.92X1.83X	44
	12	9/16-18UNF-2A	315	400	17.6	10.0	11.0	26	19	22	OR11.9X1.98X	58
	12	3/4-16UNF-2A	315	400	22.3	11.0	13.0	28	24	22	OR16.36X2.20X	77
	12	7/8-14UNF-2A	315	400	25.5	12.7	14.3	29	27	22	OR19.18X2.46X	102
	15	3/4-16UNF-2A	315	400	22.3	11.0	14.0	29	24	27	OR16.36X2.20X	100
	15	7/8-14UNF-2A	315	400	25.5	12.7	15.3	30	27	27	OR19.18X2.46X	121
	18	3/4-16UNF-2A	315	400	22.3	11.0	14.5	31	27	32	OR16.36X2.20X	136
	18	7/8-14UNF-2A	315	400	25.5	12.7	14.8	31	27	32	OR19.18X2.46X	142
	22	7/8-14UNF-2A	160	250	25.5	12.7	16.8	33	32	36	OR19.18X2.46X	184
	22	11/16-12UN-2A	160	250	31.9	15.0	16.5	33	32	36	OR23.47X2.95X	192
	22	15/16-12UN-2A	160	250	38.2	15.0	17.5	34	41	36	OR29.74X2.95X	252
	28	11/16-12UN-2A	160	250	31.9	15.0	17.5	34	41	41	OR23.47X2.95X	251
	28	15/16-12UN-2A	160	250	38.2	15.0	17.5	34	41	41	OR29.74X2.95X	261
	35	15/16-12UN-2A	160	250	38.2	15.0	17.5	39	46	50	OR37.46X2.95X	378
	35	15/8-12UN-2A	160	250	47.7	15.0	17.5	39	50	50	OR37.46X3X	413
	42	15/8-12UN-2A	160	250	47.7	15.0	19.0	42	55	60	OR37.46X3X	578

O-ring FPM:
Example →

OR8.92X1.83VITX

GE-UNF/UN - Male Stud Connector

EO tube end / UNF/UN parallel thread with O-ring seal



Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel	Dry Technology EO-2 stainless steel	DPR stainless steel
L	08	7/16-20UNF-2A	GE08ZL7/16UNFA3C	GE08L7/16UNFA3C	GE08ZL7/16UNF71	GE08L7/16UNF71
	10	7/16-20UNF-2A	GE10ZL7/16UNFA3C	GE10L7/16UNFA3C	GE10ZL7/16UNF71	GE10L7/16UNF71
	12	9/16-18UNF-2A	GE12ZL9/16UNFA3C	GE12L9/16UNFA3C	GE12ZL9/16UNF71	GE12L9/16UNF71
	12	3/4-16UNF-2A	GE12ZL3/4UNFA3C	GE12L3/4UNFA3C	GE12ZL3/4UNF71	GE12L3/4UNF71
	12	7/8-14UNF-2A	GE12ZL7/8UNFA3C	GE12L7/8UNFA3C	GE12ZL7/8UNF71	GE12L7/8UNF71
	15	3/4-16UNF-2A	GE15ZL3/4UNFA3C	GE15L3/4UNFA3C	GE15ZL3/4UNF71	GE15L3/4UNF71
	15	7/8-14UNF-2A	GE15ZL7/8UNFA3C	GE15L7/8UNFA3C	GE15ZL7/8UNF71	GE15L7/8UNF71
	18	3/4-16UNF-2A	GE18ZL3/4UNFA3C	GE18L3/4UNFA3C	GE18ZL3/4UNF71	GE18L3/4UNF71
	18	7/8-14UNF-2A	GE18ZL7/8UNFA3C	GE18L7/8UNFA3C	GE18ZL7/8UNF71	GE18L7/8UNF71
	22	7/8-14UNF-2A	GE22ZL7/8UNFA3C	GE22L7/8UNFA3C	GE22ZL7/8UNF71	GE22L7/8UNF71
	22	11/16-12UN-2A	GE22ZL11/16UNA3C	GE22L11/16UNA3C	GE22ZL11/16UNF71	GE22L11/16UNF71
	22	15/16-12UN-2A	GE22ZL15/16UNA3C	GE22L15/16UNA3C	GE22ZL15/16UNF71	GE22L15/16UNF71
	28	11/16-12UN-2A	GE28ZL11/16UNA3C	GE28L11/16UNA3C	GE28ZL11/16UNF71	GE28L11/16UNF71
	28	15/16-12UN-2A	GE28ZL15/16UNA3C	GE28L15/16UNA3C	GE28ZL15/16UNF71	GE28L15/16UNF71
	35	15/16-12UN-2A	GE35ZL15/16UNA3C	GE35L15/16UNA3C	GE35ZL15/16UNF71	GE35L15/16UNF71
	35	15/8-12UN-2A	GE35ZL15/8UNA3C	GE35L15/8UNA3C	GE35ZL15/8UNF71	GE35L15/8UNF71
	42	15/8-12UN-2A	GE42ZL15/8UNA3C	GE42L15/8UNA3C	GE42ZL15/8UNF71	GE42L15/8UNF71

Without nut and ring:

Example →

GE08L7/16UNFOMDA3C

GE08L7/16UNFOMD71

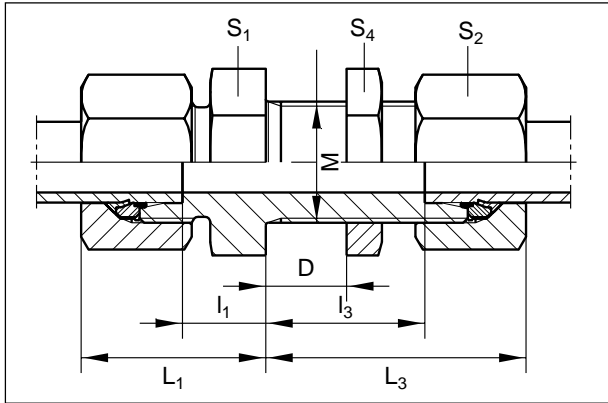
GE08L7/16UNFOMDA3C

GE08L7/16UNFOMD71

Ermeto Original

SV - Bulkhead Union

EO tube end / EO tube end



D = 16 mm max.

Series	Tube O.D.	M	PN (bar)	P _{max} (bar)	S ₁	S ₂	S ₄	L ₁	l ₁	L ₃	l ₃	Weight g./1 piece
L	06	M 12 × 1.5	315	500	17	14	17	22	7.0	42	27.0	61
	08	M 14 × 1.5	315	500	19	17	19	23	8.0	42	27.0	84
	10	M 16 × 1.5	315	500	22	19	22	25	10.0	43	28.0	109
	12	M 18 × 1.5	315	400	24	22	24	25	10.0	44	29.0	136
	15	M 22 × 1.5	315	400	27	27	30	27	12.0	46	31.0	222
	18	M 26 × 1.5	315	400	32	32	36	30	13.5	49	32.5	334
	22	M 30 × 2	160	250	36	36	41	33	16.5	51	34.5	430
	28	M 36 × 2	160	250	41	41	46	35	18.5	52	35.5	566
	35	M 45 × 2	160	250	50	50	55	40	18.5	58	36.5	858
	42	M 52 × 2	160	250	60	60	65	42	19.0	59	36.0	1236

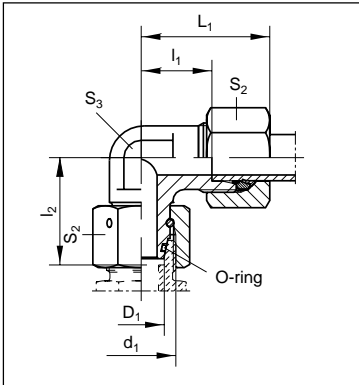
Series	Tube O.D.	Dry Technology EO-2 steel	DPR steel	Dry Technology EO-2 stainless steel	DPR stainless steel	D brass
L	06	SV06ZLA3C	SV06LA3C	SV06ZL71	SV06L71	SV06LMS
	08	SV08ZLA3C	SV08LA3C	SV08ZL71	SV08L71	SV08LMS
	10	SV10ZLA3C	SV10LA3C	SV10ZL71	SV10L71	SV10LMS
	12	SV12ZLA3C	SV12LA3C	SV12ZL71	SV12L71	SV12LMS
	15	SV15ZLA3C	SV15LA3C	SV15ZL71	SV15L71	SV15LMS
	18	SV18ZLA3C	SV18LA3C	SV18ZL71	SV18L71	SV18LMS
	22	SV22ZLA3C	SV22LA3C	SV22ZL71	SV22L71	SV22LMS
	28	SV28ZLA3C	SV28LA3C	SV28ZL71	SV28L71	SV28LMS
	35	SV35ZLA3C	SV35LA3C	SV35ZL71	SV35L71	
	42	SV42ZLA3C	SV42LA3C	SV42ZL71	SV42L71	

Without nut and ring:

Example → SV06LOMDA3C SV06LOMDA3C SV06LOMD71 SV06LOMD71 SV06LOMDMS

EW - Swivel Nut Elbow

EO tube end / EO Swivel



Series	Tube O.D.	d ₁	PN (bar)	P _{max} (bar)	L ₁	l ₁	l ₂	S ₂	S ₃	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	M 12×1.5	315	500	27	12.0	26.0	14	12	OR4.5X1.5X	43
	08	M 14×1.5	315	500	29	14.0	27.5	17	12	OR6.5X1.5X	57
	10	M 16×1.5	315	500	30	15.0	29.0	19	14	OR8X1.5X	73
	12	M 18×1.5	315	400	32	17.0	29.5	22	17	OR10X1.5X	100
	15	M 22×1.5	315	400	36	21.0	32.5	27	19	OR12X2X	168
	18	M 26×1.5	315	400	40	23.5	35.5	32	24	OR15X2X	241
	22	M 30×2.0	160	250	44	27.5	38.5	36	27	OR20X2X	330
	28	M 36×2.0	160	250	47	30.5	41.5	41	36	OR26X2X	493
	35	M 45×2.0	160	250	56	34.5	51.0	50	41	OR32X2.5X	690
	42	M 52×2.0	160	250	63	40.0	56.0	60	50	OR38X2.5X	1081

O-ring FPM

Example →

OR4.5X1.5VITX

Series	Tube O.D.	d ₁	Dry Technology EO-2 steel	DPR steel	Dry Technology EO-2 stainless steel	DPR stainless steel
L	06	M 12×1.5	EW06ZLA3C	EW06LA3C	EW06ZL71	EW06L71
	08	M 14×1.5	EW08ZLA3C	EW08LA3C	EW08ZL71	EW08L71
	10	M 16×1.5	EW10ZLA3C	EW10LA3C	EW10ZL71	EW10L71
	12	M 19×1.5	EW12ZLA3C	EW12LA3C	EW12ZL71	EW12L71
	15	M 22×1.5	EW15ZLA3C	EW15LA3C	EW15ZL71	EW15L71
	18	M 26×1.5	EW18ZLA3C	EW18LA3C	EW18ZL71	EW18L71
	22	M 30×2.0	EW22ZLA3C	EW22LA3C	EW22ZL71	EW22L71
	28	M 36×2.0	EW28ZLA3C	EW28LA3C	EW28ZL71	EW28L71
	35	M 45×2.0	EW35ZLA3C	EW35LA3C	EW35ZL71	EW35L71
	42	M 52×2.0	EW42ZLA3C	EW42LA3C	EW42ZL71	EW42L71

Without nut and ring:

Example →

EW06LOMDA3C

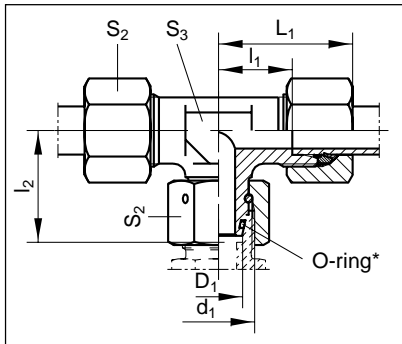
EW06LOMDA3C

EW06LOMD71

EW06LOMD71

ET - Swivel Nut Branch Tee

EO tube ends / EO Swivel



Series	Tube O.D.	d ₁	PN (bar)	P _{max} (bar)	L ₁	l ₁	l ₂	S ₂	S ₃	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	M 12×1.5	315	500	27	12.0	26.0	14	12	OR4.5X1.5X	59
	08	M 14×1.5	315	500	29	14.0	27.5	17	12	OR6.5X1.5X	82
	10	M 16×1.5	315	500	30	15.0	29.0	19	14	OR8X1.5X	105
	12	M 18×1.5	315	400	32	17.0	29.5	22	17	OR10X1.5X	139
	15	M 22×1.5	315	400	36	21.0	32.5	27	19	OR12X2X	237
	18	M 26×1.5	315	400	40	23.5	35.5	32	24	OR15X2X	342
	22	M 30×2.0	160	250	44	27.5	38.5	36	27	OR20X2X	453
	28	M 36×2.0	160	250	47	30.5	41.5	41	36	OR26X2X	659
	35	M 45×2.0	160	250	56	34.5	51.0	50	41	OR32X2.5X	965
	42	M 52×2.0	160	250	63	40.0	56.0	60	50	OR38X2.5X	1464

O-ring FPM

Example →

OR4.5X1.5VITX

Series	Tube O.D.	d ₁	Dry Technology EO-2 steel	DPR steel	Dry Technology EO-2 stainless steel	DPR stainless steel
L	06	M 12×1.5	ET06ZLA3C	ET06LA3C	ET06ZL71	ET06L71
	08	M 14×1.5	ET08ZLA3C	ET08LA3C	ET08ZL71	ET08L71
	10	M 16×1.5	ET10ZLA3C	ET10LA3C	ET10ZL71	ET10L71
	12	M 18×1.5	ET12ZLA3C	ET12LA3C	ET12ZL71	ET12L71
	15	M 22×1.5	ET15ZLA3C	ET15LA3C	ET15ZL71	ET15L71
	18	M 26×1.5	ET18ZLA3C	ET18LA3C	ET18ZL71	ET18L71
	22	M 30×2.0	ET22ZLA3C	ET22LA3C	ET22ZL71	ET22L71
	28	M 36×2.0	ET28ZLA3C	ET28LA3C	ET28ZL71	ET28L71
	35	M 45×2.0	ET35ZLA3C	ET35LA3C	ET35ZL71	ET35L71
	42	M 52×2.0	ET42ZLA3C	ET42LA3C	ET42ZL71	ET42L71

Without nut and ring:

Example →

ET06LOMDA3C

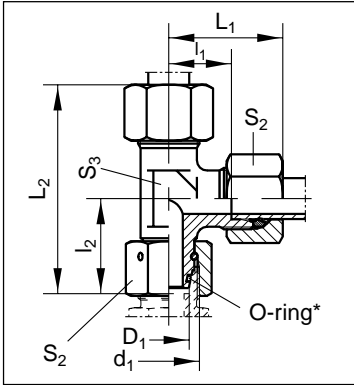
ET06LOMDA3C

ET06LOMD71

ET06LOMD71

EL - Swivel Nut Run Tee

EO tube ends / EO Swivel



Series	Tube O.D.	d ₁	PN (bar)	P _{max} (bar)	L ₁	l ₁	L ₂	l ₂	S ₂	S ₃	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	M 12 × 1.5	315	500	27	12.0	53	26.0	14	12	OR4.5X1.5X	59
	08	M 14 × 1.5	315	500	29	14.0	56	27.5	17	12	OR6.5X1.5X	87
	10	M 16 × 1.5	315	500	30	15.0	59	29.0	19	14	OR8X1.5X	104
	12	M 18 × 1.5	315	400	32	17.0	61	29.5	22	17	OR10X1.5X	140
	15	M 22 × 1.5	315	400	36	21.0	69	32.5	27	19	OR12X2X	237
	18	M 26 × 1.5	315	400	40	23.5	75	35.5	32	24	OR15X2X	341
	22	M 30 × 2	160	250	44	27.5	82	38.5	36	27	OR20X2X	450
	28	M 36 × 2	160	250	47	30.5	89	41.5	41	36	OR26X2X	607
	35	M 45 × 2	160	250	56	34.5	107	51.0	50	41	OR32X2.5X	979
	42	M 52 × 2	160	250	63	40.0	119	56.0	60	50	OR38X2.5X	1465

O-ring FPM
Example →

OR4.5X1.5VITX

Series	Tube O.D.	d ₁	Dry Technology EO-2 steel	DPR steel	Dry Technology EO-2 stainless steel	DPR stainless steel
L	06	M 12 × 1.5	EL06ZLA3C	EL06LA3C	EL06ZL71	EL06L71
	08	M 14 × 1.5	EL08ZLA3C	EL08LA3C	EL08ZL71	EL08L71
	10	M 16 × 1.5	EL10ZLA3C	EL10LA3C	EL10ZL71	EL10L71
	12	M 18 × 1.5	EL12ZLA3C	EL12LA3C	EL12ZL71	EL12L71
	15	M 22 × 1.5	EL15ZLA3C	EL15LA3C	EL15ZL71	EL15L71
	18	M 26 × 1.5	EL18ZLA3C	EL18LA3C	EL18ZL71	EL18L71
	22	M 30 × 2	EL22ZLA3C	EL22LA3C	EL22ZL71	EL22L71
	28	M 36 × 2	EL28ZLA3C	EL28LA3C	EL28ZL71	EL28L71
	35	M 45 × 2	EL35ZLA3C	EL35LA3C	EL35ZL71	EL35L71
	42	M 52 × 2	EL42ZLA3C	EL42LA3C	EL42ZL71	EL42L71

Without nut and ring:
Example →

EL06LOMDA3C

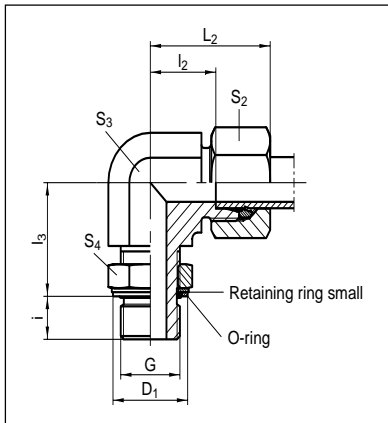
EL06LOMDA3C

EL06LOMD71

ET06LOMD71

WEE-R - Adjustable Locknut Elbow

EO tube end / Male BSPP thread with O-ring seal
for ports with **small**
or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ± 10%	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
LL	04	G 1/8A	250	315	21	11.3	20	7.1	15	10	11	14		OR8X1.88X	RRS1/3	30
	06	G 1/8A	250	315	21	11.3	20	7.1	15	12	11	14		OR8X1.88X	RRS1/8	32
L	06	G 1/8A	315	420	29	14.0	19	7.0	15	14	14	14	25	OR8X1.88X	RRS1/8	66
	08	G 1/4A	315	420	31	16.0	23	9.0	20	17	14	19	50	OR10.77X2.62X	RRS1/4	66
	10	G 1/4A	315	420	32	17.0	25	9.0	20	19	19	19	50	OR10.77X2.62X	RRS1/4	119
	12	G 3/8A	250	400	34	19.0	28	9.0	23	22	19	22	80	OR13.94X2.62X	RRS3/8	138
	15	G 1/2A	250	400	36	21.0	30	13.0	28	27	22	27	105	OR17X3X	RRS1/2	283
	18	G 1/2A	250	400	40	24.0	36	13.0	28	32	27	27	105	OR17X3X	RRS1/2	344
	22	G 3/4A	160	250	44	28.0	36	13.0	33	36	30	36	220	OR23.47X2.95X	RRS3/4	449
	28	G 1A	160	250	47	31.0	44	15.0	41	41	36	41	370	OR29.2X3X	RRS1	657
	35	G 1 1/4A	160	250	59	38.0	50	15.0	51	50	50	50	500	OR37.69X3.53X	RRS11/4	1113
	42	G 1 1/2A	160	250	61	38.0	52	15.0	56	60	50	55	600	OR44.04X3.53X	RRS11/2	1197

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
LL	04	G 1/8A	WEE04ZLLRA3C	WEE04LLRA3C
	06	G 1/8A	WEE06ZLLRA3C	WEE06LLRA3C
L	06	G 1/8A	WEE06ZLRA3C	WEE06LRA3C
	08	G 1/4A	WEE08ZLRA3C	WEE08LRA3C
	10	G 1/4A	WEE10ZLRA3C	WEE10LRA3C
	12	G 3/8A	WEE12ZLRA3C	WEE12LRA3C
	15	G 1/2A	WEE15ZLRA3C	WEE15LRA3C
	18	G 1/2A	WEE18ZLRA3C	WEE18LRA3C
	22	G 3/4A	WEE22ZLRA3C	WEE22LRA3C
	28	G 1A	WEE28ZLRA3C	WEE28LRA3C
	35	G 1 1/4A	WEE35ZLRA3C	WEE35LRA3C
	42	G 1 1/2A	WEE42ZLRA3C	WEE42LRA3C

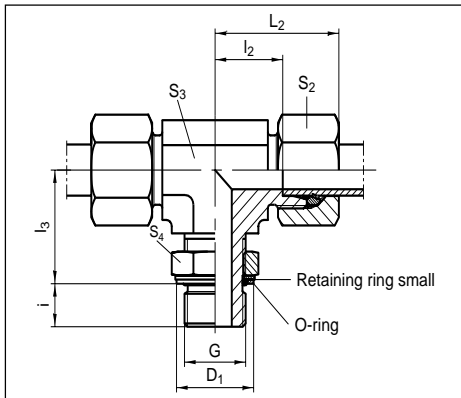
Without nut and ring:

Example → WEE06LROMDA3C WEE06LROMDA3C

*Series LL with D-ring.

TEE-R - Adjustable Locknut Branch Tee

EO tube ends / Male BSPP thread with O-ring seal
for ports with **small**
or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ± 10 %	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	G 1/8A	315	420	29	14	19	7	15	14	14	14	25	OR8X1.88X	RRS1/8	93
	08	G 1/4A	315	420	31	16	23	9	20	17	14	19	50	OR10.77X2.62X	RRS1/4	103
	10	G 1/4A	315	420	32	17	25	9	20	19	19	19	50	OR10.77X2.62X	RRS1/4	171
	12	G 3/8A	250	400	34	19	28	9	23	22	19	22	80	OR13.94X2.62X	RRS3/8	206
	15	G 1/2A	250	400	36	21	30	13	28	27	22	27	105	OR17X3X	RRS1/2	313
	18	G 1/2A	250	400	40	24	36	13	28	32	27	27	105	OR17X3X	RRS1/2	428
	22	G 3/4A	160	250	44	28	36	13	33	36	30	36	220	OR23.47X2.95X	RRS3/4	719
	28	G 1A	160	250	47	31	44	15	41	41	36	41	370	OR29.2X3X	RRS1	812
	35	G 1 1/4A	160	250	59	38	50	15	51	50	50	50	500	OR37.69X3.53X	RRS11/4	1260
	42	G 1 1/2A	160	250	61	38	52	15	56	60	50	50	600	OR44.04X3.53X	RRS11/2	1428

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	G 1/8A	TEE06ZLRA3C	TEE06LRA3C
	08	G 1/4A	TEE08ZLRA3C	TEE08LRA3C
	10	G 1/4A	TEE10ZLRA3C	TEE10LRA3C
	12	G 3/8A	TEE12ZLRA3C	TEE12LRA3C
	15	G 1/2A	TEE15ZLRA3C	TEE15LRA3C
	18	G 1/2A	TEE18ZLRA3C	TEE18LRA3C
	22	G 3/4A	TEE22ZLRA3C	TEE22LRA3C
	28	G 1A	TEE28ZLRA3C	TEE28LRA3C
	35	G 1 1/4A	TEE35ZLRA3C	TEE35LRA3C
	42	G 1 1/2A	TEE42ZLRA3C	TEE42LRA3C

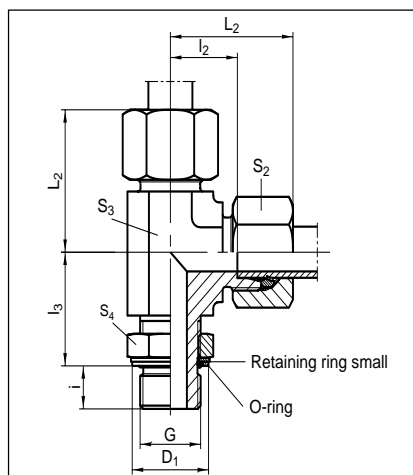
Without nut and ring:

Example → TEE06LROMDA3C TEE06LROMDA3C

*Series LL with D-ring.

LEE-R - Adjustable Locknut Run Tee

EO tube ends / Male BSPP thread with O-ring seal
for ports with **small**
or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ± 10%	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	G 1/8A	315	420	29	14	19	7	15	14	14	14	25	OR8X1.88X	RRS1/8	93
	08	G 1/4A	315	420	31	16	23	9	20	17	14	19	50	OR10.77X2.62X	RRS1/4	103
	10	G 1/4A	315	420	32	17	25	9	20	19	19	19	50	OR10.77X2.62X	RRS1/4	171
	12	G 3/8A	250	400	34	19	28	9	23	22	19	22	80	OR13.94X2.62X	RRS3/8	206
	15	G 1/2A	250	400	36	21	30	13	28	27	22	27	105	OR17X3X	RRS1/2	313
	18	G 1/2A	250	400	40	24	36	13	28	32	27	27	105	OR17X3X	RRS1/2	428
	22	G 3/4A	160	250	44	28	36	13	33	36	30	36	220	OR23.47X2.95X	RRS3/4	719
	28	G 1A	160	250	47	31	44	15	41	41	36	41	370	OR29.2X3X	RRS1	812
	35	G 1 1/4A	160	250	59	38	50	15	51	50	50	50	500	OR37.69X3.53X	RRS11/4	1260
	42	G 1 1/2A	160	250	61	38	52	15	56	60	50	55	600	OR44.04X3.53X	RRS11/2	1428

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	G 1/8A	LEE06ZLRA3C	LEE06LRA3C
	08	G 1/4A	LEE08ZLRA3C	LEE08LRA3C
	10	G 1/4A	LEE10ZLRA3C	LEE10LRA3C
	12	G 3/8A	LEE12ZLRA3C	LEE12LRA3C
	15	G 1/2A	LEE15ZLRA3C	LEE15LRA3C
	18	G 1/2A	LEE18ZLRA3C	LEE18LRA3C
	22	G 3/4A	LEE22ZLRA3C	LEE22LRA3C
	28	G 1A	LEE28ZLRA3C	LEE28LRA3C
	35	G 1 1/4A	LEE35ZLRA3C	LEE35LRA3C
	42	G 1 1/2A	LEE42ZLRA3C	LEE42LRA3C

Without nut and ring:

Example →

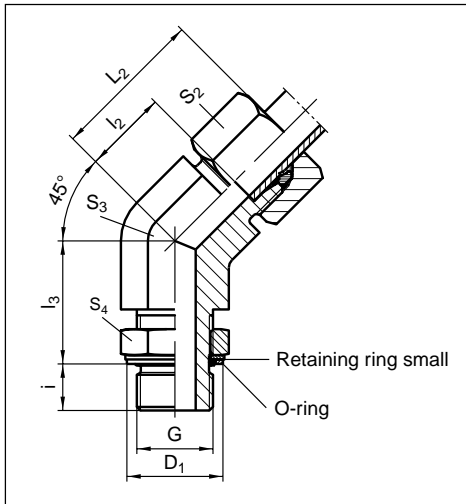
LEE06LROMDA3C

LEE06LROMDA3C

*Series LL with D-ring.

VEE-R - Adjustable Locknut 45° Elbow

EO tube end / Male BSPP thread with O-ring seal
for ports with **small**
or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ± 10%	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	G 1/8A	315	420	24	9	21	7	15	14	14	14	25	OR8X1.88X	RRS1/8	50
	08	G 1/4A	315	420	27	12	20	9	20	17	14	19	50	OR10.77X2.62X	RRS1/4	55
	10	G 1/4A	315	420	27	12	25	9	20	19	19	19	50	OR10.77X2.62X	RRS1/4	105
	12	G 3/8A	250	400	28	14	28	9	23	22	19	22	80	OR13.94X2.62X	RRS3/8	147
	15	G 1/2A	250	400	32	17	26	13	28	27	22	27	105	OR17X3X	RRS1/2	202
	18	G 1/2A	250	400	33	17	32	13	28	32	27	27	105	OR17X3X	RRS1/2	261
	22	G 3/4A	160	250	35	19	37	13	33	36	30	36	220	OR23.47X2.95X	RRS3/4	388
	28	G 1A	160	250	40	23	37	15	41	41	36	41	370	OR29.2X3X	RRS1	500
	35	G 1 1/4A	160	250	48	27	39	15	51	50	50	50	500	OR37.69X3.53X	RRS11/4	711
	42	G 1 1/2A	160	250	49	26	39	15	56	60	50	55	600	OR44.04X3.53X	RRS11/2	795

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	G 1/8A	VEE06ZLRA3C	VEE06LRA3C
	08	G 1/4A	VEE08ZLRA3C	VEE08LRA3C
	10	G 1/4A	VEE10ZLRA3C	VEE10LRA3C
	12	G 3/8A	VEE12ZLRA3C	VEE12LRA3C
	15	G 1/2A	VEE15ZLRA3C	VEE15LRA3C
	18	G 1/2A	VEE18ZLRA3C	VEE18LRA3C
	22	G 3/4A	VEE22ZLRA3C	VEE22LRA3C
	28	G 1A	VEE28ZLRA3C	VEE28LRA3C
	35	G 1 1/4A	VEE35ZLRA3C	VEE35LRA3C
	42	G 1 1/2A	VEE42ZLRA3C	VEE42LRA3C

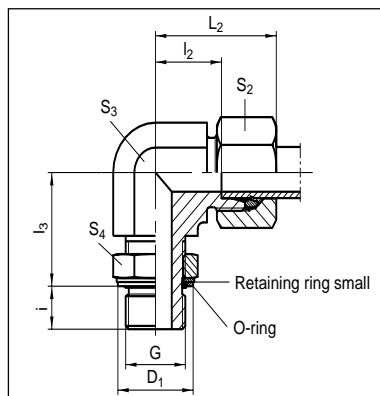
Without nut and ring:

Example → VEE06LROMDA3C VEE06LROMDA3C

*Series LL with D-ring.

WEE-M - Adjustable Locknut Elbow

EO tube end / Male metric parallel thread with O-ring seal
for ports with **small** or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ±10%	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	M10×1	315	420	29	14	20	7	15	14	14	14	18	OR8X1.88X	RRSM10	66
	08	M12×1.5	315	420	31	16	22	10	18	17	14	17	35	OR9.3X2.2X	RRSM12	66
	10	M14×1.5	315	420	32	17	24	10	20	19	19	19	55	OR11.3X2.2X	RRSM14	87
	12	M16×1.5	315	420	34	19	25	10	23	22	19	22	80	OR13.3X2.3X	RRSM16	95
	15	M18×1.5	315	420	36	21	31	11	25	27	22	24	105	OR15.54X2.62X	RRSM18	224
	18	M22×1.5	250	400	40	24	33	12	28	32	27	27	125	OR19.2X3X	RRSM22	284
	22	M27×2	160	250	44	28	36	14	33	36	30	32	220	OR23.47X2.95X	RRSM27	534
	28	M33×2	160	250	47	31	39	14	41	41	36	41	370	OR29.2X3X	RRSM33	609
	35	M42×2	160	250	59	38	49	14	51	50	50	50	500	OR37.69X3.53X	RRSM42	844
	42	M48×2	160	250	61	38	50	16	56	60	50	55	600	OR43.69X3X	RRSM48	928

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	M10×1	WEE06ZLMA3C	WEE06LMA3C
	08	M12×1.5	WEE08ZLMA3C	WEE08LMA3C
	10	M14×1.5	WEE10ZLMA3C	WEE10LMA3C
	12	M16×1.5	WEE12ZLMA3C	WEE12LMA3C
	15	M18×1.5	WEE15ZLMA3C	WEE15LMA3C
	18	M22×1.5	WEE18ZLMA3C	WEE18LMA3C
	22	M27×2	WEE22ZLM27X2A3C	WEE22LM27X2A3C
	28	M33×2	WEE28ZLMA3C	WEE28LMA3C
	35	M42×2	WEE35ZLMA3C	WEE35LMA3C
	42	M48×2	WEE42ZLMA3C	WEE42LMA3C

Without nut and ring:

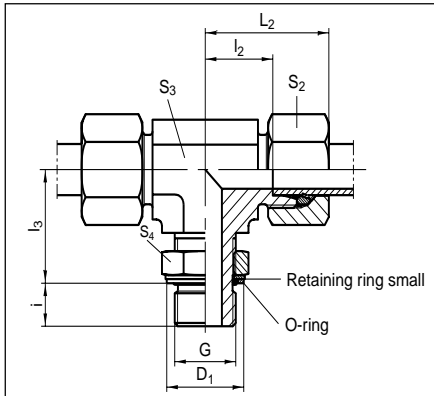
Example →

WEE06LMOMDA3C WEE06LMOMDA3C

*Series LL with D-ring.

TEE-M - Adjustable Locknut Branch Tee

EO tube ends / Male metric parallel thread with O-ring seal
for ports with **small** or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ± 10 %	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	M10×1	315	420	29	14	20	7	15	14	14	14	18	OR8X1.88X	RRSM10	93
	08	M12×1.5	315	420	31	16	22	10	18	17	14	17	35	OR9.3X2.2X	RRSM12	103
	10	M14×1.5	315	420	32	17	25	9	20	19	19	19	55	OR11.3X2.2X	RRSM14	175
	12	M16×1.5	315	420	34	19	26	9	23	22	19	22	80	OR13.3X2.2X	RRSM16	191
	15	M18×1.5	315	420	36	21	30	11	25	27	22	24	105	OR15.54X2.62X	RRSM18	331
	18	M22×1.5	250	400	40	24	33	11	28	32	27	27	125	OR19.2X3X	RRSM22	423
	22	M27×2	160	250	44	28	35	14	33	36	30	32	220	OR23.47X2.95X	RRSM27	737
	28	M33×2	160	250	47	31	38	14	41	41	36	41	370	OR29.2X3X	RRSM33	777
	35	M42×2	160	250	59	38	48	14	51	50	50	50	500	OR37.69X3.53X	RRSM42	1260
	42	M48×2	160	250	61	38	49	16	56	60	50	55	600	OR43.69X3X	RRSM48	1428

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	M10×1	TEE06ZLMA3C	TEE06LMA3C
	08	M12×1.5	TEE08ZLMA3C	TEE08LMA3C
	10	M14×1.5	TEE10ZLMA3C	TEE10LMA3C
	12	M16×1.5	TEE12ZLMA3C	TEE12LMA3C
	15	M18×1.5	TEE15ZLMA3C	TEE15LMA3C
	18	M22×1.5	TEE18ZLMA3C	TEE18LMA3C
	22	M27×2	TEE22ZLM27X2A3C	TEE22LM27X2A3C
	28	M33×2	TEE28ZLMA3C	TEE28LMA3C
	35	M42×2	TEE35ZLMA3C	TEE35LMA3C
	42	M48×2	TEE42ZLMA3C	TEE42LMA3C

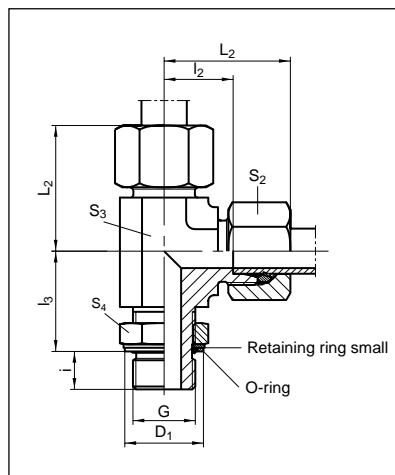
Without nut and ring:

Example → **TEE06LMOMDA3C** **TEE06LMOMDA3C**

*Series LL with D-ring.

LEE-M - Adjustable Locknut Run Tee

EO tube ends / Male metric parallel thread with O-ring seal for ports with **small** or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ±10%	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	M10×1	315	420	29	14	8	7	15	14	14	14	18	OR8X1.88X	RRSM10	93
	08	M12×1.5	315	420	31	16	8	10	18	17	14	17	35	OR9.3X2.2X	RRSM12	103
	10	M14×1.5	315	420	32	17	11	9	20	19	19	19	55	OR11.3X2.2X	RRSM14	175
	12	M16×1.5	315	420	34	19	14	9	23	22	19	22	80	OR13.3X2.2X	RRSM16	191
	15	M18×1.5	315	420	36	21	14	11	25	27	22	24	105	OR15.54X2.62X	RRSM18	331
	18	M22×1.5	250	400	40	24	17	11	28	32	27	27	125	OR19.2X3X	RRSM22	423
	22	M27×2	160	250	44	28	19	14	33	36	30	32	220	OR23.47X2.95X	RRSM27	737
	28	M33×2	160	250	47	31	27	14	41	41	36	41	370	OR29.2X3X	RRSM33	777
	35	M42×2	160	250	59	38	37	14	51	50	50	50	500	OR37.69X3.53X	RRSM42	1260
	42	M48×2	160	250	61	38	40	16	56	51	60	55	600	OR43.69X3X	RRSM48	1428

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	M10×1	LEE06ZLMA3C	LEE06LMA3C
	08	M12×1.5	LEE08ZLMA3C	LEE08LMA3C
	10	M14×1.5	LEE10ZLMA3C	LEE10LMA3C
	12	M16×1.5	LEE12ZLMA3C	LEE12LMA3C
	15	M18×1.5	LEE15ZLMA3C	LEE15LMA3C
	18	M22×1.5	LEE18ZLMA3C	LEE18LMA3C
	22	M27×2	LEE22ZLM27X2A3C	LEE22LM27X2A3C
	28	M33×2	LEE28ZLMA3C	LEE28LMA3C
	35	M42×2	LEE35ZLMA3C	LEE35LMA3C
	42	M48×2	LEE42ZLMA3C	LEE42LMA3C

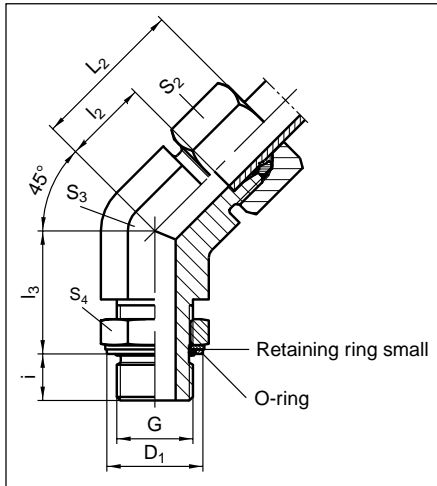
Without nut and ring:

Example → **LEE06LMOMDA3C** **LEE06LMOMDA3C**

*Series LL with D-ring.

VEE-M - Adjustable Locknut 45° Elbow

EO tube end / Male metric parallel thread with O-ring seal
for ports with **small** or wide spot face



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (Nm) ±10%	O-ring Shore-Hardness approx. 90	Retaining ring small	Weight g./1 piece
L	06	M10×1	315	420	24	9	21	7	15	14	14	14	18	OR8X1.88X	RRSM10	57
	08	M12×1.5	315	420	27	12	19	10	18	17	14	17	35	OR9.3X2.2X	RRSM12	62
	10	M14×1.5	315	420	27	12	24	9	20	19	19	19	55	OR11.3X2.2X	RRSM14	104
	12	M16×1.5	315	420	28	14	25	9	23	22	19	22	80	OR13.3X2.2X	RRSM16	140
	15	M18×1.5	315	420	32	17	24	11	25	27	22	24	105	OR15.54X2.62X	RRSM18	198
	18	M22×1.5	250	400	33	17	31	11	28	32	27	27	125	OR19.2X3X	RRSM22	260
	22	M27×2	160	250	35	19	31	14	33	36	30	32	220	OR23.47X2.95X	RRSM27	382
	28	M33×2	160	250	40	23	35	14	41	41	36	41	370	OR29.2X3X	RRSM33	406
	35	M42×2	160	250	48	27	37	14	51	50	50	50	500	OR37.69X3.53X	RRSM42	729
	42	M48×2	160	250	49	26	37	16	56	51	50	55	600	OR43.69X3X	RRSM48	813

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	M10×1	VEE06ZLMA3C	VEE06LMA3C
	08	M12×1.5	VEE08ZLMA3C	VEE08LMA3C
	10	M14×1.5	VEE10ZLMA3C	VEE10LMA3C
	12	M16×1.5	VEE12ZLMA3C	VEE12LMA3C
	15	M18×1.5	VEE15ZLMA3C	VEE15LMA3C
	18	M22×1.5	VEE18ZLMA3C	VEE18LMA3C
	22	M27×2	VEE22ZLM27X2A3C	VEE22LM27X2A3C
	28	M33×2	VEE28ZLMA3C	VEE28LMA3C
	35	M42×2	VEE35ZLMA3C	VEE35LMA3C
	42	M48×2	VEE42ZLMA3C	VEE42LMA3C

Without nut and ring:

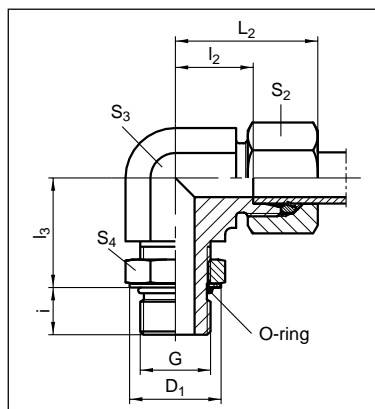
Example →

VEE06LMOMDA3C VEE06LMOMDA3C

*Series LL with D-ring.

WEE-UNF - Adjustable Locknut Elbow

EO tube end / Male UNF/UN parallel thread with O-ring seal



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (NM) ± 10 %	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	7/16-20 UNF-2A	315	420	29	14	19	10	16.5	14	14	14	19±2	OR8.92X1.83X	65
	08	7/16-20 UNF-2A	315	420	31	16	19	10	18.3	17	14	14	19±2	OR8.92X1.83X	70
	10	9/16-18 UNF-2A	315	420	32	17	24	10	20.2	19	19	17	40±3	OR11.89X1.98X	90
	12	9/16-18 UNF-2A	315	420	34	19	25	11	25.7	22	19	17	40±3	OR11.89X1.98X	110
	12	3/4-16 UNF-2A	315	420	34	19	25	13	25.7	22	19	22	60±3	OR16.36X2.21X	194
	15	3/4-16 UNF-2A	315	420	36	21	28	13	29.3	27	22	22	60±3	OR16.36X2.21X	185
	15	7/8-14 UNF-2A	315	420	36	21	28	15	29.3	27	22	27	80±4	OR19.18X2.46X	188
	18	7/8-14 UNF-2A	315	420	40	24	32	15	29.3	32	27	27	80±4	OR19.18X2.46X	284
	18	1 1/16-12 UN-2A	315	420	40	24	32	17	29.3	32	30	32	110±7	OR23.47X2.95X	318
	22	1 1/16-12 UN-2A	160	250	44	28	35	17	36.7	36	30	32	110±7	OR23.47X2.95X	535
	28	1 5/16-12 UN-2A	160	250	47	31	42	17	44.0	41	36	41	160±8	OR29.74X2.95X	452
	35	1 5/8-12 UN-2A	160	250	59	38	46	17	55.0	50	50	50	300±16	OR37.47X3X	844
	42	1 7/8-12 UN-2A	160	250	61	38	47	17	55.0	60	50	55	340±16	OR43.69X3X	928

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	7/16-20 UNF-2A	WEE06ZL7/16UNFA3C	WEE06L7/16UNFA3C
	08	7/16-20 UNF-2A	WEE08ZL7/16UNFA3C	WEE08L7/16UNFA3C
	10	9/16-18 UNF-2A	WEE10ZL9/16UNFA3C	WEE10L9/16UNFA3C
	12	9/16-18 UNF-2A	WEE12ZL9/16UNFA3C	WEE12L9/16UNFA3C
	12	3/4-16 UNF-2A	WEE12ZL3/4UNFA3C	WEE12L3/4UNFA3C
	15	3/4-16 UNF-2A	WEE15ZL3/4UNFA3C	WEE15L3/4UNFA3C
	15	7/8-14 UNF-2A	WEE15ZL7/8UNFA3C	WEE15L7/8UNFA3C
	18	7/8-14 UNF-2A	WEE18ZL7/8UNFA3C	WEE18L7/8UNFA3C
	18	1 1/16-12 UN-2A	WEE18ZL11/16UNA3C	WEE18L11/16UNA3C
	22	1 1/16-12 UN-2A	WEE22ZL11/16UNA3C	WEE22L11/16UNA3C
	28	1 5/16-12 UN-2A	WEE28ZL15/16UNA3C	WEE28L15/16UNA3C
	35	1 5/8-12 UN-2A	WEE35ZL15/8UNA3C	WEE35L15/8UNA3C
	42	1 7/8-12 UN-2A	WEE42ZL17/8UNA3C	WEE42L17/8UNA3C

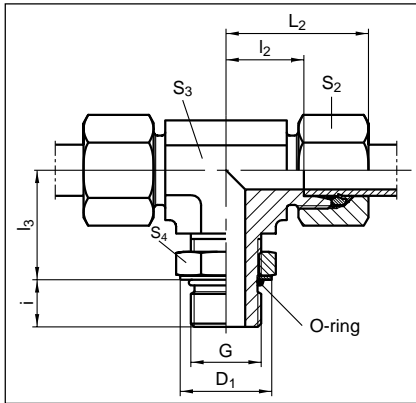
Without nut and ring:

Example →

WEE06L7/16UNFOMDA3C WEE06L7/16UNFOMDA3C

TEE-UNF - Adjustable Locknut Branch Tee

EO tube ends / Male UNF/UN parallel thread with O-ring seal



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (NM) ± 10 %	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	7/16-20 UNF-2A	315	420	29	14	19	10	16.5	14	14	14	19±2	OR8.92X1.83X	91
	08	7/16-20 UNF-2A	315	420	31	16	19	10	18.3	17	14	14	19±2	OR8.92X1.83X	101
	10	9/16-18 UNF-2A	315	420	32	17	24	10	20.2	19	19	17	40±3	OR11.89X1.98X	175
	12	9/16-18 UNF-2A	315	420	34	19	25	11	25.7	22	19	17	40±3	OR11.89X1.98X	191
	12	3/4-16 UNF-2A	315	420	34	19	25	13	25.7	22	19	22	60±3	OR16.36X2.21X	247
	15	3/4-16 UNF-2A	315	420	36	21	28	13	29.3	27	22	22	60±3	OR16.36X2.21X	329
	15	7/8-14 UNF-2A	315	420	36	21	28	15	29.3	27	22	27	80±4	OR19.18X2.46X	329
	18	7/8-14 UNF-2A	315	420	40	24	32	15	29.3	32	27	27	80±4	OR19.18X2.46X	419
	18	1 1/16-12 UN-2A	315	420	40	24	32	17	29.3	32	30	32	110±7	OR23.47X2.95X	581
	22	1 1/16-12 UN-2A	160	250	44	28	35	17	36.7	36	30	32	110±7	OR23.47X2.95X	629
	28	1 5/16-12 UN-2A	160	250	47	31	42	17	44.0	41	36	41	160±8	OR29.74X2.95X	751
	35	1 5/8-12 UN-2A	160	250	59	38	46	17	55.0	50	50	50	300±16	OR37.47X3X	1262
	42	1 7/8-12 UN-2A	160	250	61	38	47	17	55.0	60	50	55	340±16	OR43.69X3X	1480

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	7/16-20 UNF-2A	TEE06ZL7/16UNFA3C	TEE06L7/16UNFA3C
	08	7/16-20 UNF-2A	TEE08ZL7/16UNFA3C	TEE08L7/16UNFA3C
	10	9/16-18 UNF-2A	TEE10ZL9/16UNFA3C	TEE10L9/16UNFA3C
	12	9/16-18 UNF-2A	TEE12ZL9/16UNFA3C	TEE12L9/16UNFA3C
	12	3/4-16 UNF-2A	TEE12ZL3/4UNFA3C	TEE12L3/4UNFA3C
	15	3/4-16 UNF-2A	TEE15ZL3/4UNFA3C	TEE15L3/4UNFA3C
	15	7/8-14 UNF-2A	TEE15ZL7/8UNFA3C	TEE15L7/8UNFA3C
	18	7/8-14 UNF-2A	TEE18ZL7/8UNFA3C	TEE18L7/8UNFA3C
	18	1 1/16 UN-2A	TEE18ZL11/16UNA3C	TEE18L11/16UNA3C
	22	1 1/16-12 UN-2A	TEE22ZL11/16UNA3C	TEE22L11/16UNA3C
	28	1 5/16-12 UN-2A	TEE28ZL15/16UNA3C	TEE28L15/16UNA3C
	35	1 5/8-12 UN-2A	TEE35ZL15/8UNA3C	TEE35L15/8UNA3C
	42	1 7/8-12 UN-2A	TEE42ZL17/8UNA3C	TEE42L17/8UNA3C

Without nut and ring:

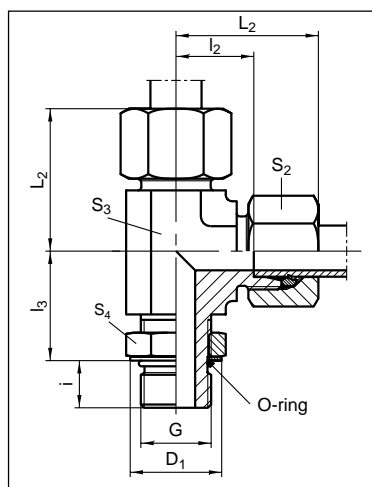
Example →

TEE06L7/16UNFOMDA3C TEE06L7/16UNFOMDA3C

Ermeto Original

LEE-UNF - Adjustable Locknut Run Tee

EO tube ends / Male UNF/UN parallel thread with O-ring seal



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (NM) ±10 %	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	7/16-20 UNF-2A	315	420	29	14	19	10	16.5	14	14	14	19±2	OR8.92X1.83X	91
	08	7/16-20 UNF-2A	315	420	31	16	19	10	18.3	17	14	14	19±2	OR8.92X1.83X	101
	10	9/16-18 UNF-2A	315	420	32	17	24	10	20.2	19	19	17	40±3	OR11.89X1.98X	175
	12	9/16-18 UNF-2A	315	420	34	19	25	11	25.7	22	19	17	40±3	OR11.89X1.98X	191
	12	3/4-16 UNF-2A	315	420	34	19	25	13	25.7	22	19	22	60±3	OR16.36X2.21X	247
	15	3/4-16 UNF-2A	315	420	36	21	28	13	29.3	27	22	22	60±3	OR16.36X2.21X	329
	15	7/8-14 UNF-2A	315	420	36	21	28	15	29.3	27	22	27	80±4	OR19.18X2.46X	329
	18	7/8-14 UNF-2A	315	420	40	24	32	15	29.3	32	27	27	80±4	OR19.18X2.46X	419
	18	1 1/16-12 UN-2A	315	420	40	24	32	17	29.3	32	30	32	110±7	OR23.47X2.95X	581
	22	1 1/16-12 UN-2A	160	250	44	28	35	17	36.7	36	30	32	110±7	OR23.47X2.95X	629
	28	1 5/16-12 UN-2A	160	250	47	31	42	17	44.0	41	36	41	160±8	OR29.74X2.95X	751
	35	1 5/8-12 UN-2A	160	250	59	38	46	17	55.0	50	50	50	300±16	OR37.47X3X	1262
	42	1 7/8-12 UN-2A	160	250	61	38	47	17	55.0	60	50	55	340±16	OR43.69X3X	1430

Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	7/16-20 UNF-2A	LEE06ZL7/16UNFA3C	LEE06L7/16UNFA3C
	08	7/16-20 UNF-2A	LEE08ZL7/16UNFA3C	LEE08L7/16UNFA3C
	10	9/16-18 UNF-2A	LEE10ZL9/16UNFA3C	LEE10L9/16UNFA3C
	12	9/16-18 UNF-2A	LEE12ZL9/16UNFA3C	LEE12L9/16UNFA3C
	12	3/4-16 UNF-2A	LEE12ZL3/4UNFA3C	LEE12L3/4UNFA3C
	15	3/4-16 UNF-2A	LEE15ZL3/4UNFA3C	LEE15L3/4UNFA3C
	15	7/8-14 UNF-2A	LEE15ZL7/8UNFA3C	LEE15L7/8UNFA3C
	18	7/8-14 UNF-2A	LEE18ZL7/8UNFA3C	LEE18L7/8UNFA3C
	18	1 1/16-12 UN-2A	LEE18ZL11/16UNA3C	LEE18L11/16UNA3C
	22	1 1/16-12 UN-2A	LEE22ZL11/16UNA3C	LEE22L11/16UNA3C
	28	1 5/16-12 UN-2A	LEE28ZL15/16UNA3C	LEE28L15/16UNA3C
	35	1 5/8-12 UN-2A	LEE35ZL15/8UNA3C	LEE35L15/8UNA3C
	42	1 7/8-12 UN-2A	LEE42ZL17/8UNA3C	LEE42L17/8UNA3C

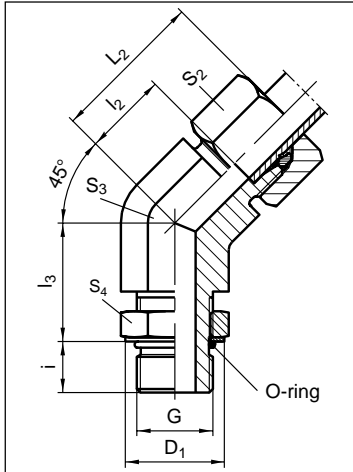
Without nut and ring:

Example →

LEE06L7/16UNFOMDA3C LEE06L7/16UNFOMDA3C

VEE-UNF - Adjustable Locknut 45° Elbow

EO tube end / Male UNF/UN parallel thread with O-ring seal



Series	Tube O.D.	G	PN (bar)	P _{max} (bar)	L ₂	l ₂	l ₃	i	D ₁	S ₂	S ₃	S ₄	Assembly torque (NM) ±10 %	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	7/16-20 UNF-2A	315	420	24	9	19	10	16.5	14	14	14	19±2	OR8.92X1.83X	57
	08	7/16-20 UNF-2A	315	420	27	12	19	10	18.3	17	14	14	19±2	OR8.92X1.83X	62
	10	9/16-18 UNF-2A	315	420	27	12	24	10	20.2	19	19	17	40±3	OR11.89X1.98X	105
	12	9/16-18 UNF-2A	315	420	28	14	24	11	25.7	22	19	17	40±3	OR11.89X1.98X	101
	12	3/4-16 UNF-2A	315	420	28	14	24	13	25.7	22	19	22	60±3	OR16.36X2.21X	147
	15	3/4-16 UNF-2A	315	420	32	17	24	13	29.3	27	22	22	60±3	OR16.36X2.21X	203
	15	7/8-14 UNF-2A	315	420	32	17	24	15	29.3	27	22	27	80±4	OR19.18X2.46X	180
	18	7/8-14 UNF-2A	315	420	33	17	30	15	29.3	32	27	27	80±4	OR19.18X2.46X	264
	18	1 1/16-12 UN-2A	315	420	33	17	30	17	29.3	32	30	32	110±7	OR23.47X2.95X	364
	22	1 1/16-12 UN-2A	160	250	35	19	33	17	36.7	36	30	32	110±7	OR23.47X2.95X	388
	28	1 5/16-12 UN-2A	160	250	39	23	35	17	44.0	41	36	41	160±8	OR29.74X2.95X	500
	35	1 5/8-12 UN-2A	160	250	48	27	37	17	55.0	50	50	50	300±16	OR37.47X3X	731
	42	1 7/8-12 UN-2A	160	250	49	26	37	17	55.0	60	50	55	340±16	OR43.69X3X	815

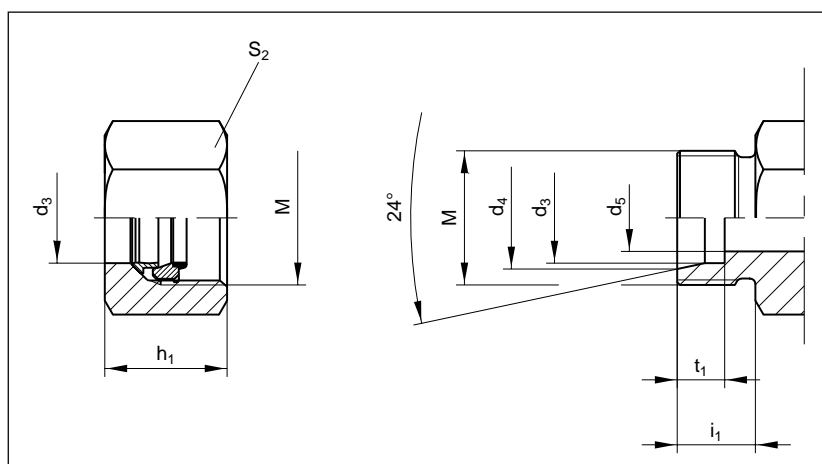
Series	Tube O.D.	G	Dry Technology EO-2 steel	DPR steel
L	06	7/16-20 UNF-2A	VEE06ZL7/16UNFA3C	VEE06L7/16UNFA3C
	08	7/16-20 UNF-2A	VEE08ZL7/16UNFA3C	VEE08L7/16UNFA3C
	10	9/16-18 UNF-2A	VEE10ZL9/16UNFA3C	VEE10L7/16UNFA3C
	12	9/16-18 UNF-2A	VEE12ZL9/16UNFA3C	VEE12L9/16UNFA3C
	12	3/4-16 UNF-2A	VEE12ZL3/4UNFA3C	VEE12L3/4UNFA3C
	15	3/4-16 UNF-2A	VEE15ZL3/4UNFA3C	VEE15L3/4UNFA3C
	15	7/8-14 UNF-2A	VEE15ZL7/8UNFA3C	VEE15L7/8UNFA3C
	18	7/8-14 UNF-2A	VEE18ZL7/8UNFA3C	VEE18L7/8UNFA3C
	18	1 1/16-12 UN-2A	VEE18ZL11/16UNA3C	VEE18L11/16UNA3C
	22	1 1/16-12 UN-2A	VEE22ZL11/16UNA3C	VEE22L11/16UNA3C
	28	1 5/16-12 UN-2A	VEE28ZL15/16UNA3C	VEE28L15/16UNA3C
	35	1 5/8-12 UN-2A	VEE35ZL15/8UNA3C	VEE35L15/8UNA3C
	42	1 7/8-12 UN-2A	VEE42ZL17/8UNA3C	VEE42L17/8UNA3C

Without nut and ring:

Example →

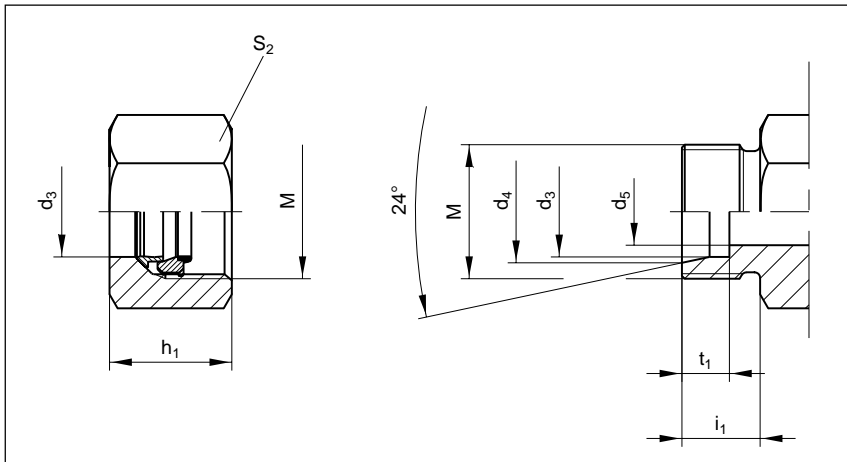
VEE06L7/16UNFOMDA3C VEE06L7/16UNFOMDA3C

FM - EO-2 Functional Nut



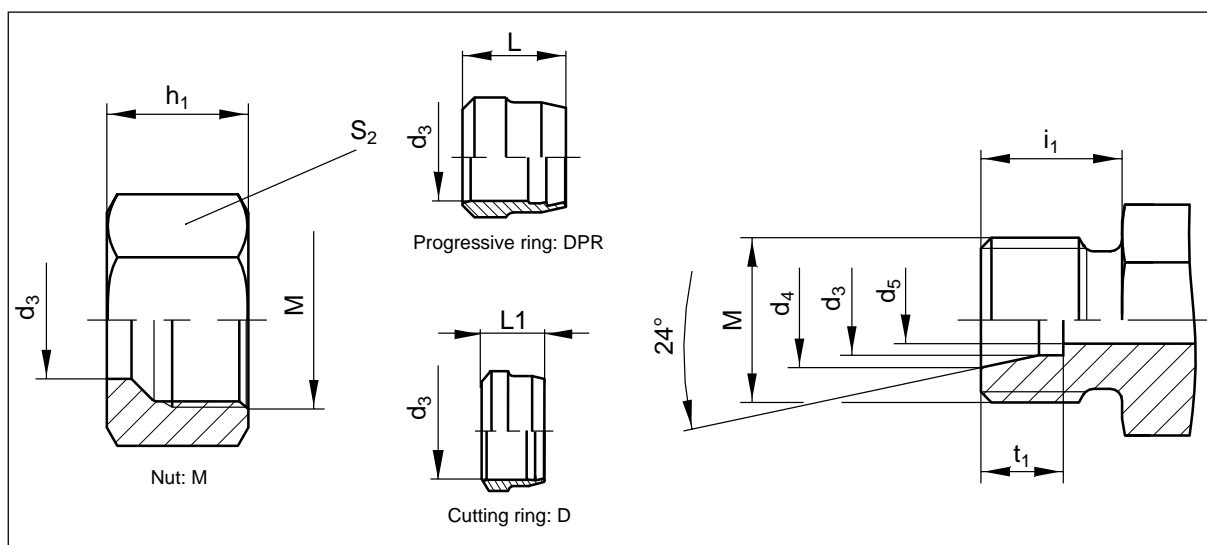
Series	Tube O.D.	DN Size	M metric thread	d ₃	d ₄	d ₅	t ₁	i ₁	S ₂	h ₁	Weight g./1 piece
LL	04	04	M 8×1	4	5.0	3.0	4.0	8	10	11.0	5
	06	06	M 10×1	6	7.5	4.5	5.5	8	12	11.5	6
L	06	04	M 12×1.5	6	8.1	4.0	7.0	10	14	15.0	12
	08	06	M 14×1.5	8	10.1	6.0	7.0	10	17	15.0	17
	10	08	M 16×1.5	10	12.3	8.0	7.0	11	19	16.0	22
	12	10	M 18×1.5	12	14.3	10.0	7.0	11	22	16.0	30
	15	12	M 22×1.5	15	17.3	12.0	7.0	12	27	17.5	48
	18	16	M 26×1.5	18	20.3	15.0	7.5	12	32	18.5	70
	22	20	M 30×2	22	24.3	19.0	7.5	14	36	20.5	94
	28	25	M 36×2	28	30.3	24.0	7.5	14	41	21.0	106
	35	32	M 45×2	35	38.0	30.0	10.5	16	50	24.0	160
	42	40	M 52×2	42	45.0	36.0	11.0	16	60	24.0	244

FM - EO-2 Functional Nut



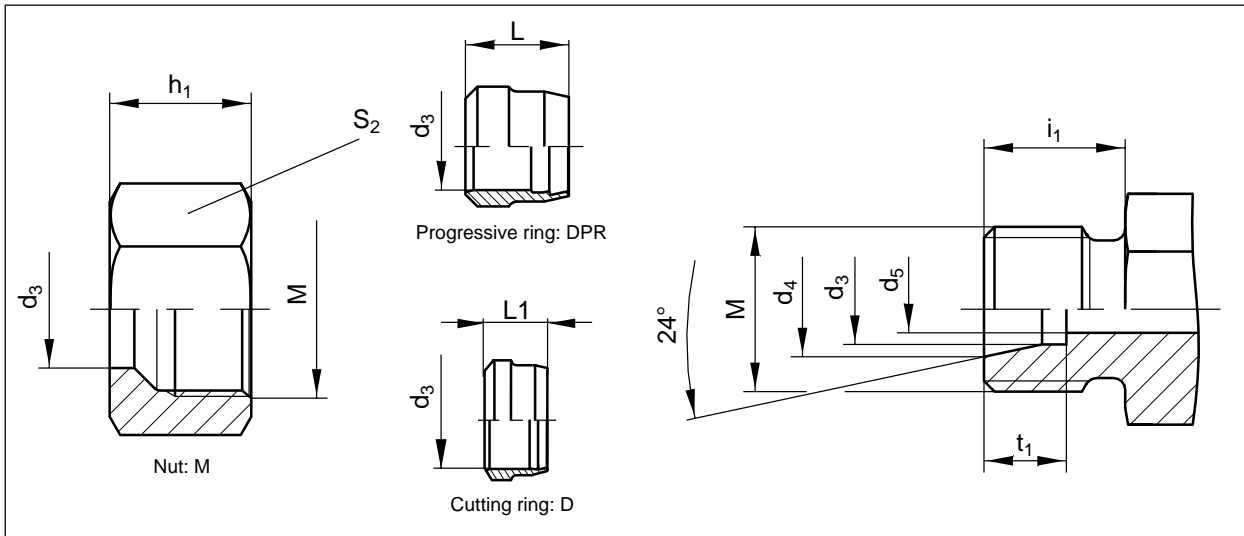
Series	Tube O.D.	Dry Technology Steel/NBR	Dry Technology Stainless steel/FPM	Dry Technology Steel NBR with stainless steel cutting ring
LL	04	FM04LLA3C		FM04LLSSA
	06	FM06LLA3C		FM06LLSSA
L	06	FM06LA3C	FM06L71	FM06LSSA
	08	FM08LA3C	FM08L71	FM08LSSA
	10	FM10LA3C	FM10L71	FM10LSSA
	12	FM12LA3C	FM12L71	FM12LSSA
	15	FM15LA3C	FM15L71	FM15LSSA
	18	FM18LA3C	FM18L71	FM18LSSA
	22	FM22LA3C	FM22L71	FM22LSSA
	28	FM28LA3C	FM28L71	FM28LSSA
	35	FM35LA3C	FM35L71	FM35LSSA
	42	FM42LA3C	FM42L71	FM42LSSA

M Nut - DPR Progressive ring - D Cutting ring



Series	Tube O.D.	DN Size	M metric thread	d ₃	d ₄	d ₅	t ₁	i ₁	S ₂	h ₁	L	L1	Weight g./1 piece	
													M	DPR (D)
LL	04	03	M 8×1	4	5.0	3	4.0	8	10	11.0	-	6.0	4	0.3
	06	04	M 10×1	6	7.5	4	5.5	8	12	11.5	-	7.0	6	0.8
	08	06	M 12×1	8	9.5	6	5.5	9	14	12.0	-	7.0	7	1.0
	10	08	M 14×1	10	11.5	8	5.5	9	17	12.5	-	7.0	11	1.3
	12	10	M 16×1	12	13.5	10	6.0	9	19	13.0	-	7.5	13	1.6
L	06	04	M 12×1.5	6	8.1	4	7.0	10	14	15.0	9.5	9.5	10	1.7
	08	06	M 14×1.5	8	10.1	6	7.0	10	17	15.0	9.5	9.0	15	2.2
	10	08	M 16×1.5	10	12.3	8	7.0	11	19	16.0	10.5	10.0	18	3.1
	12	10	M 18×1.5	12	14.3	10	7.0	11	22	16.0	10.0	10.0	25	3.5
	15	12	M 22×1.5	15	17.3	12	7.0	12	27	17.5	10.0	10.0	42	4.3
	18	16	M 26×1.5	18	20.3	15	7.5	12	32	18.5	10.0	10.0	62	5.5
	22	20	M 30×2	22	24.3	19	7.5	14	36	20.5	10.5	10.5	82	7.3
	28	25	M 36×2	28	30.3	24	7.5	14	41	21.0	10.5	10.5	89	9.4
	35	32	M 45×2	35	38.0	30	10.5	16	50	24.0	13.5	13.0	137	20.0
	42	40	M 52×2	42	45.0	36	11.0	16	60	24.0	13.5	13.5	216	23.0

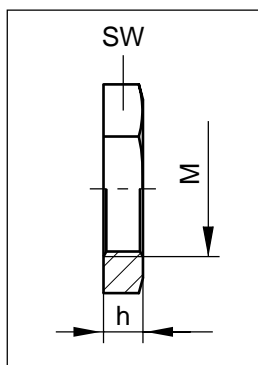
M Nut - DPR Progressive ring - D Cutting ring



Series	Tube O.D.	M		
		Steel	Stainless steel	brass
LL	04	M04LLA3CX	M04LL71X	M04LLMSX
	06	M06LLA3CX	M06LL71X	M06LLMSX
	08	M08LLA3CX	M08LL71X	M08LLMSX
	10	M10LLA3CX	M10LL71X	M10LLMSX
	12	M12LLA3CX	M12LL71X	M12LLMSX
L	06	M06LA3CX	M06LEODURX	M06LMSX
	08	M08LA3CX	M08LEODURX	M08LMSX
	10	M10LA3CX	M10LEODURX	M10LMSX
	12	M12LA3CX	M12LEODURX	M12LMSX
	15	M15LA3CX	M15LEODURX	M15LMSX
	18	M18LA3CX	M18LEODURX	M18LMSX
	22	M22LA3CX	M22LEODURX	M22LMSX
	28	M28LA3CX	M28LEODURX	M28LMSX
	35	M35LA3CX	M35LEODURX	M35LMSX
	42	M42LA3CX	M42LEODURX	M42LMSX

DPR (D)		
Steel	Stainless steel	brass
D04LLX	D04LL71X	D04LLMSX
D06LLX	D06LL71X	D06LLMSX
D08LLX	D08LL71X	D08LLMSX
D10LLX	D10LL71X	D10LLMSX
D12LLX	D12LL71X	D12LLMSX
DPR06LX	DPR06L71X	D06LMSX
DPR08LX	DPR08L71X	D08LMSX
DPR10LX	DPR10L71X	D10LMSX
DPR12LX	DPR12L71X	D12LMSX
DPR15LX	DPR15L71X	D15LMSX
DPR18LX	DPR18L71X	D18LMSX
DPR22LX	DPR22L71X	D22LMSX
DPR28LX	DPR28L71X	D28LMSX
DPR35LX	DPR35L71X	D35LMSX
DPR42LX	DPR42L71X	D42LMSX

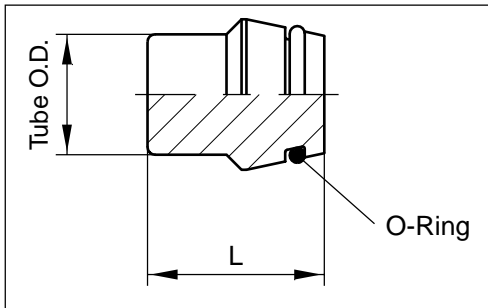
GM - Bulkhead locknut



Series	Tube O.D.	SW	M metric thread	h	Weight g./1 piece
L	06	17	M 12×1.5	6	7
	08	19	M 14×1.5	6	8
	10	22	M 16×1.5	6	11
	12	24	M 18×1.5	6	12
	15	30	M 22×1.5	7	23
	18	36	M 26×1.5	8	37
	22	41	M 30×2	8	46
	28	46	M 36×2	9	58
	35	55	M 45×2	9	71
	42	65	M 52×2	10	123

Series	Tube O.D.	Steel	Stainless steel	Brass
L	06	GM06LA3CX	GM06L71X	GM06LMSX
	08	GM08LA3CX	GM08L71X	GM08LMSX
	10	GM10LA3CX	GM10L71X	GM10LMSX
	12	GM12LA3CX	GM12L71X	GM12LMSX
	15	GM15LA3CX	GM15L71X	GM15LMSX
	18	GM18LA3CX	GM18L71X	GM18LMSX
	22	GM22LA3CX	GM22L71X	GM22LMSX
	28	GM28LA3CX	GM28L71X	GM28LMSX
	35	GM35LA3CX	GM35L71X	GM35LMSX
	42	GM42LA3CX	GM42L71X	GM42LMSX

VKA - Blanking plug for cones



Series	Tube O.D.	PN (bar)	P _{max} (bar)	L	O-ring Shore-Hardness approx. 90	Weight g./1 piece
L	06	315	500	18.5	OR4.5X1.5X	6
	08	315	500	18.5	OR6.5X1.5X	9
	10	315	500	20.0	OR8X1.5X	15
	12	315	400	20.5	OR10X1.5X	21
	15	315	400	20.5	OR12X2X	32
	18	315	400	22.5	OR15X2X	49
	22	160	250	25.0	OR20X2X	80
	28	160	250	25.5	OR26X2X	131
	35	160	250	30.0	OR32X2.5X	240
	42	160	250	30.0	OR38X2.5X	343

O-ring FPM:

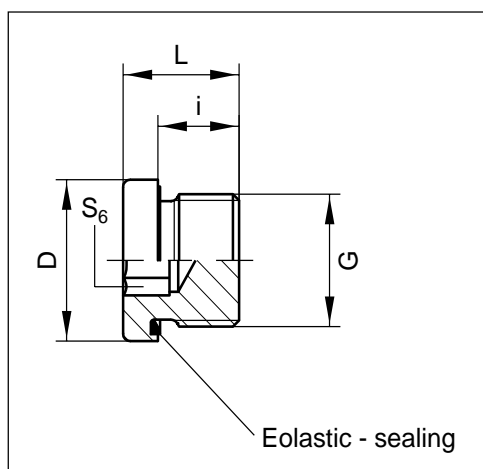
Example →

OR4.5X1.5VITX

Series	Tube O.D.	Dry Technology Steel/NBR	Dry Technology Stainless steel/FPM	Brass/NBR
L	06	VKA06A3C	VKA0671	VKA06MS
	08	VKA08A3C	VKA0871	VKA08MS
	10	VKA10A3C	VKA1071	VKA10MS
	12	VKA12A3C	VKA1271	VKA12MS
	15	VKA15A3C	VKA1571	VKA15MS
	18	VKA18A3C	VKA1871	VKA18MS
	22	VKA22A3C	VKA2271	VKA22MS
	28	VKA28A3C	VKA2871	VKA28MS
	35	VKA35A3C	VKA3571	VKA35MS
	42	VKA42A3C	VKA4271	VKA42MS

VSTI R/M-ED - Blanking plug for ports

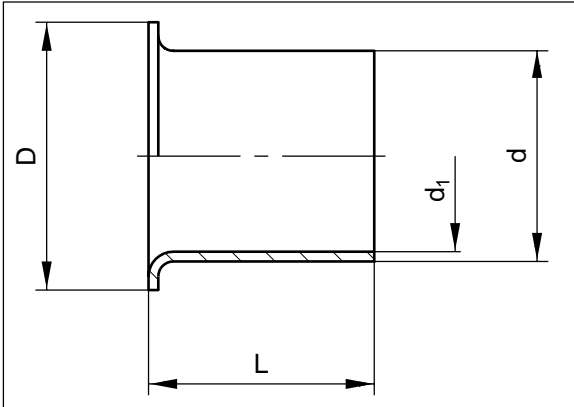
BSPP or Metric parallel thread with Eolastic sealing ED



Male metric parallel thread G	Male stud BSP thread G	PN (bar)	P _{max} (bar)	D	L	i	S ₆	Weight g./1 piece	Dry Technology Steel		Stainless steel BSPP	
									Metric parallel	BSPP		
M 10 × 1	G 1/8 A	400	500	14.0	12.0	8.0	5	8	VSTI10X1EDA3C	VSTI1/8EDA3C	VSTI10X1ED71	VSTI1/8ED71
M 12 × 1.5		400	500	17.0	17.0	12.0	6	14	VSTI12X1.5EDA3C		VSTI12X1.5ED71	
M 14 × 1.5	G 1/4 A	400	500	19.0	17.0	12.0	6	20	VSTI14X1.5EDA3C	VSTI1/4EDA3C	VSTI14X1.5ED71	VSTI1/4ED71
M 16 × 1.5	G 3/8 A	400	500	22.0	17.0	12.0	8	25	VSTI16X1.5EDA3C	VSTI3/8EDA3C	VSTI16X1.5ED71	VSTI3/8ED71
M 18 × 1.5		400	500	23.9	17.0	12.0	8	32	VSTI18X1.5EDA3C		VSTI18X1.5ED71	
M 20 × 1.5		400	500	25.9	19.0	14.0	10	42	VSTI20X1.5EDA3C		VSTI20X1.5ED71	
M 22 × 1.5	G 1/2 A	400	500	27.0	19.0	14.0	10	51	VSTI22X1.5EDA3C	VSTI1/2EDA3C	VSTI22X1.5ED71	VSTI1/2ED71
M 26 × 1.5		400	500	31.9	21.0	16.0	12	78	VSTI26X1.5EDA3C		VSTI26X1.5ED71	
M 27 × 2	G 3/4 A	400	500	32.0	21.0	16.0	12	79	VSTI27X2EDA3C	VSTI3/4EDA3C	VSTI27X2ED71	VSTI3/4ED71
M 33 × 2	G 1 A	400	500	39.9	22.5	16.0	17	130	VSTI33X2EDA3C	VSTI1EDA3C	VSTI33X2ED71	VSTI1ED71
M 42 × 2	G 1 1/4 A	315	400	49.9	22.5	16.0	22	198	VSTI42X2EDA3C	VSTI11/4EDA3C	VSTI42X2ED71	VSTI11/4ED71
M 48 × 2	G 1 1/2 A	315	400	55.0	22.5	16.0	24	263	VSTI48X2EDA3C	VSTI11/2EDA3C	VSTI48X2ED71	VSTI11/2ED71

E - Tube insert

for plastic tubing



Tube O.D.	ID	D	d	d ₁	L	Weight g./1 piece	Brass
04	2.0	3.5	2.0	1.3	8	1	E04/02X
04	2.5	4.0	2.5	1.7	8	1	E04/2.5X
05	3.0	5.0	3.0	2.2	14	1	E0506/03X
06	3.0	5.0	3.0	2.2	14	1	E0506/03X
05	4.0	5.0	4.0	3.2	14	1	E0506/04X
06	4.0	5.0	4.0	3.2	14	1	E0506/04X
08	4.0	6.6	4.0	3.2	14	1	E08/04X
06	5.0	6.0	5.0	4.0	14	1	E06/05X
08	5.0	8.0	5.0	4.0	14	1	E08/05X
10	6.0	8.0	6.0	5.0	15	1	E0810/06X
08	6.0	8.0	6.0	5.0	15	1	E0810/06X
10	8.0	10.0	8.0	6.7	15	1	E10/08X
12	8.0	12.0	8.0	6.7	15	2	E12/08X
12	9.0	12.0	9.0	7.7	15	2	E12/09X
12	10.0	12.0	10.0	8.7	15	2	E1215/10X
15	12.0	14.8	12.0	10.7	15	3	E15/12X
15	12.5	14.8	12.5	11.2	15	3	E1516/12.5X
16	12.5	14.8	12.5	11.2	15	3	E1516/12.5X
18	14.0	17.8	14.0	12.7	15	4	E18/14X
18	16.0	17.8	16.0	14.7	20	4	E1820/16X
20	16.0	17.8	16.0	14.7	20	4	E1820/16X
22	18.0	21.8	18.0	16.7	16	5	E22/18X

SensoControl® The Serviceman for fluid systems

Hand-held measuring device to measure pressure, temperature, flow and rotational speed

- Easy operation
- Rugged design
- Compact dimensions
- Large display
- Units of measurement displayed
- Differential value measurement
- MIN/MAX Memory
- Hold function
- 2 inputs with sensor recognition
- Low power consumption
- Data output for printer and PC
- External power supply



The SERVICEMAN SCM-150 from Parker is a modern measuring system and real alternative to conventional mechanical pressure measurement in fluid systems.

The device can be used wherever fluid control and components are in use. The SCM-150 is very tough and insensitive to dirt so that it can be used in extreme conditions. It can be carried by hand or used as a desktop unit with an integrated stand. Operation is very easy.

Everything is controlled by 8 buttons. 2 sensors inputs are provided, thus enables differential measurements.

A dynamic maximum and minimum value memory and a display "hold" function have also been implemented.

The Serviceman identifies the type of connected sensors and its proper units (bar; l/min; PPM; °C).

Therefore wrong measurements and time consuming adjustments are thus avoided.

A printer can also be used to document the most important fluid parameters.

Following a pre-set transmission interval of between 1 and 100 sec., the device automatically documents the maximum, minimum and current values for the system.

The memory is deleted after printing. This permits a precise determination of the extreme values per machine cycle. The device can be con-

nected to any PC with an auxiliary PC adapter.

Thus, the drafting of status reports to verify data (ISO 9000) poses no problems.

The Serviceman SCM-150 will be of interest to all maintenance engineers working with mobile hydraulic systems, in the construction, machinery and equipment sector, environmental engineering, ship-building and offshore.

The Serviceman has been developed to give an excellent range of functions and benefits, at a modest price.

Technical Data

● Inputs

2 inputs with sensor-recognition
(p, T, Q, n)

Resolution

12 Bit = 4.096 steps

Scanning rate

= < 2 ms

● Display

- LCD text display (4-digit)
- Character height: 13 mm
- Accuracy: < 0.3% ± 2 digits
- Display of units:
bar, PSI, L/min., USGPM, °C, °F,
U/min., RPM, %

● Functions

- Differential value measurement
- MIN/MAX memory
- Hold function
- Autoprint function (SCM-150-1-02)
- Battery level display LO BAT
- Auto power off after 15 min.

● Data-Output SCM-150-1-02

- Infrared interface (RS232C)
to thermoprinter SCPR-100 or PC
(only in combination with
SCDA-150)

● Ambient conditions

- Temperature range: 0–50°C
- Storage temperature: –20...+60°C
- Rel. humidity: <85 %
- Protection level: IP54 (EN 60529)

● Power supply

SCM-150-1-01

- 9V battery (IEC 6F 22)
- Approx. 5 h operation with one
sensor

SCM-150-1-02

- NC storage battery, 9V
- Approx. 5 h operation with one
sensor
- Battery charge circuit
- External power supply with SCSN-350

● General

Housing material

- Plastic housing of ABS
- Protective covering of rubber and
carrying straps

Dimensions

L/W/H 145×70×40 mm

Weight

Approx. 340 g.

EMC compatibility pursuant to:

- Interference emission DIN/EN 50081 Part 1 (VDE 0839 Part 81-1)
- Interference emission DIN/EN 50081 Part 1 (VDE 0839 Part 81-1)

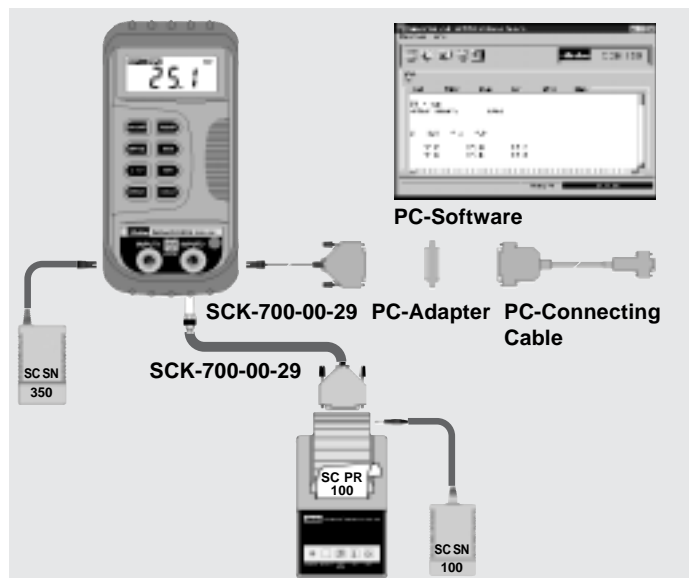
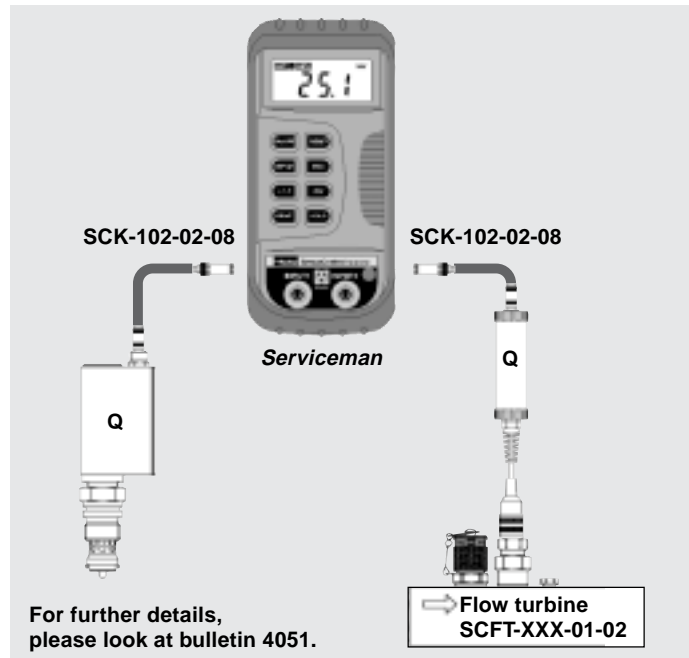
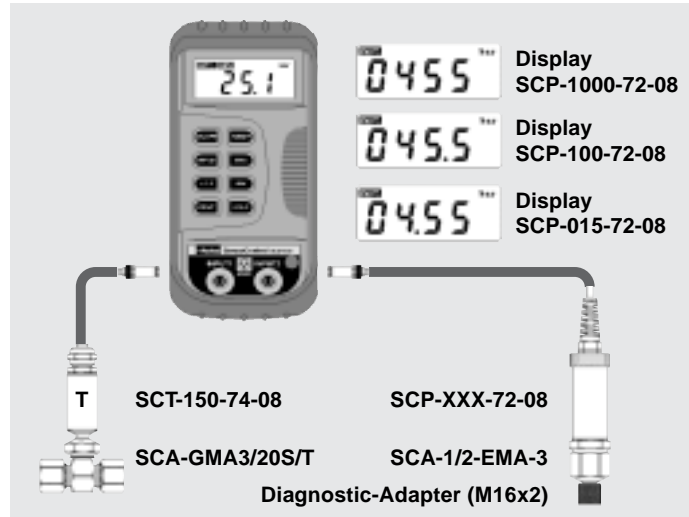
Functional description SCM-150

The diagram shows the Parker SensoControl SCM-150 device. The LCD at the top displays 'INP1 - INP2 bar' and '25.1'. Below the LCD are several buttons: ON/OFF, RESET, INP1/2, MAX, Δ 1-2, MIN, PRINT, and HOLD. At the bottom, there are two input ports labeled INPUT1 and INPUT2, a 15V DC socket, and a data output port. The device is labeled 'Parker SensoControl SCM-150'.

- ① 4-digit LCD to **display** units, input status and battery status
- ② **RESET** to delete MIN/MAX Readings
- ③ **On/Off switch**
- ④ **Maximum value display** RESET must be pressed before start of measurement
- ⑤ **Channel selection** input 1/2
- ⑥ **Differential value** Input 1 minus Input 2
- ⑦ **Minimum value display** RESET must be pressed before the start of measurements
- ⑧ **Printout** of actual/max/min values in numerical form
- ⑨ **Hold function** for display values
- ⑩ **2 sensor inputs**
- ⑪ **Socket** for external power supply (SCM-150-1-02)
- ⑫ **Data output** (SCM-150-1-02)

Data transmission to printer SCPR-100 or PC with SCDA-150 adaptor.

Fluid System



Order code

Description		Part no ...
Handmeter SCM-150	to measure p, T, Q, n also with data output an external power supply	SCM-150-1-01 SCM-150-1-02
Pressure sensor SCP	with fixed cable connection for direct connection to the SCM-150	SCP- -72-08
Measuring range	-1 ... 15 bar 0 ... 100 bar 0 ... 1000 bar	015 100 1000
Flow sensor SCQ	further information on data sheet 4069	
Flow turbine SCFT	complete with measuring points for pressure and temperature, signal converter with voltage output For details please see data sheet 4068	SCFT- . . . -01-02
Measuring range	1.0 ... 15 l/min 7.5 ... 60 l/min 15 ... 300 l/min 25 ... 600 l/min	015 060 300 600
Temperature measurement	measuring range -25 ... +125°C	SCT-150-74-08
Rotational speed recording	measuring range 0 ... 10000 rpm	SCRPM-210
Connecting cable, 2 m	connection sensor/handmeter	SCK-102-02-08
Accessories for SCM-150		
Measuring case	for handmeter, pressure sensors, adapters charger and battery also for printer and flow sensors	SC-500 SCC-550
Printer SCPR Printer cable, 1 m PC adapter	thermoprinter for connection to SCM-150-1-02 optical transmission to transfer data to a PC	SCPR-100-1-01 SCK-700-00-29 SCDA-150
Charger NiCD storage battery Mains adapter SCSN	to charge NiCD storage battery SC-811 9V/110mAh (IEC 6F 22) power supply for SCM-150-1-02 power supply for SCM, SCPR, SCDA-150	SC-800 SC-811 SCSN-350 SCSN-345
Car cable, 5 m	connection between car socket – SCM-150-1-02	SCK-519-05-21/A
Calibration certificate for SCM-150	according to DIN ISO 9001/EN 29009	

Brass adaptors

*Brass adaptors
for heavy duty
applications*































Catalogue 4360-UK



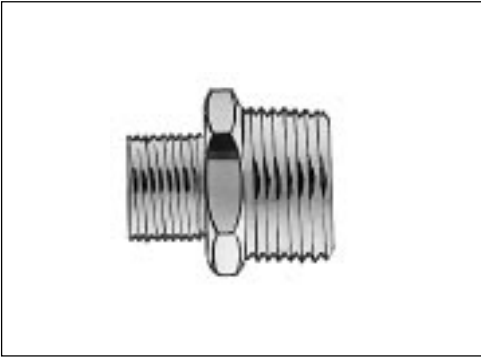
Brass adaptors

J

Index

Pipe nipples						
	equal BSPT FF33 - p. J 5	equal NPTF FF - p. J 5	equal NPTF 216P - p. J 5	unequal BSPT FF33 - p. J 5	equal BSPP FF44 - p. J 5	
Reducers						
	reducing connector female-male BSPP-BSPT FG43 - p. J 6	reducing connector female-male NPTF FG - p. J 6	reducing connector female-male NPTF 222P - p. J 6	pipe thread reducer male-female BSPT-BSPP PTR34 - p. J 6	pipe thread reducer male-female NPTF PTR - p. J 7	pipe thread reducer male-female NPTF 209P - p. J 7
Pipe connectors						
	equal BSPP GG44 - p. J 8	equal NPTF GG - p. J 8	equal NPTF 207P - p. J 8	unequal BSPP GG44 - p. J 8		
Bulkhead unions						
	female - BSPP WGG44 - p. J 9	female - NPTF 207ACBH - p. J 9				
90° elbows						
	male-female BSPT-BSPP CD43 - p. J 9	equal female BSPP DD44 - p. J 9				
Tees						
	equal female BSPP MMO444 - p. J 10	male branch tee BSPP-BSPP-BSPT MMS443 - p. J 10	male run tee BSPP-BSPT-BSPP MRO434 - p. J 10			
Cross						
	equal female BSPP KMMOO4 - p. J 10					
Plugs						
	hex head BSPT HP3 - p. J 11	hex head NPTF HP - p. J 11	hex head NPTF 218P - p. J 11	hollow hex BSPT HHP3 - p. J 11	hollow hex NPTF HHP - p. J 12	hollow hex NPTF 219P - p. J 12
Conversion adaptors						
	male NPT - female BSPP FHG4 - p. J 12					

Brass adaptors



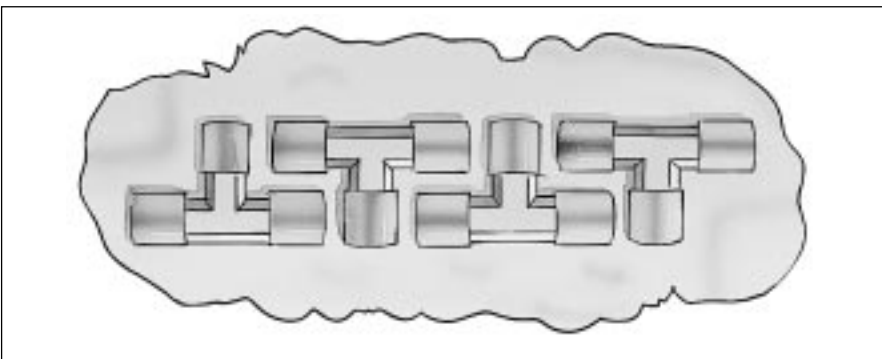
To simplify the installation of pneumatic systems, Parker supplies a comprehensive range of adaptors for BSPP, BSPT and NPT pipe threads. The range includes pipe nipples, pipe connectors, reducers, bulkhead female unions, elbows, tees, crosses and hex head plugs.

Technical features

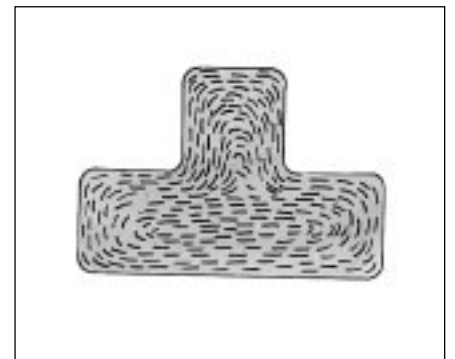
Material	Working temperature	Working pressure
Brass	From - 60°C to + 190°C	60 bar except where indicated

Advantages

Brass forgings



Parker brass adaptors are produced from hot forgings to meet exacting tolerances.



The hot forging process increases the density of the material, refines the grain structure and improves material strength.

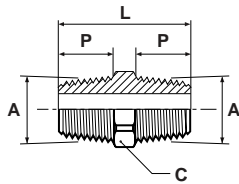
Packaging



Parker brass adaptors are packaged in biodegradable plastic bags preventing thread damage and ensuring a quality adaptor.

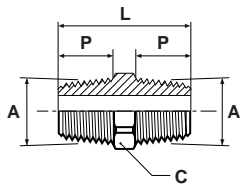
Brass adaptors

FF33 - Pipe nipple - BSPT



A	Part number	C	L	P	Weight g.
1/8	1/8FF33B	10	19	8	7
1/4	1/4FF33B	14	27	11	16
3/8	3/8FF33B	17	28	12	25
1/2	1/2FF33B	22	36	15	50
3/4	3/4FF33B	27	40	16	90
1	1FF33B	36	46	19	151

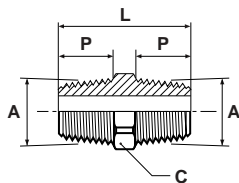
FF - Pipe nipple - NPTF - Heavy series



A	Part number	C*		L	P	Weight g.	Working pressure (bar)
		in	mm				
1/8	1/8FFB	7/16	11.2	27	10	10	260
1/4	1/4FFB	5/8	15.9	37	14	31	260
3/8	3/8FFB	3/4	19.5	37	14	38	260
1/2	1/2FFB	7/8	22.3	48	19	70	260

* Inch dimensions

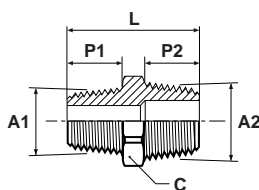
216P - Pipe nipple - NPTF



A	Part number	C*		L	P	Weight g.
		in	mm			
1/8	216P-2	7/16	11.2	25	10	8
1/4	216P-4	9/16	14.3	35	14	25
3/8	216P-6	11/16	17.5	36	14	29
1/2	216P-8	7/8	22.3	46	19	64

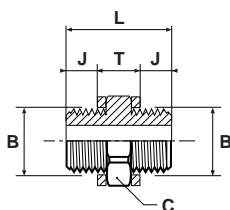
* Inch dimensions

FF33 - Unequal pipe nipple - BSPT



A1	A2	Part number	C	L	P1	P2	Weight g.
1/8	1/4	1/8x1/4FF33B	14	23	8	11	16
1/8	3/8	1/8x3/8FF33B	17	24	8	12	24
1/8	1/2	1/8x1/2FF33B	22	28	8	15	40
1/4	3/8	1/4x3/8FF33B	17	28	11	12	28
1/4	1/2	1/4x1/2FF33B	22	31	11	15	41
3/8	1/2	3/8x1/2FF33B	22	32	12	15	56
3/8	3/4	3/8x3/4FF33B	27	35	12	16	92
1/2	3/4	1/2x3/4FF33B	27	38	15	16	36
3/4	1	3/4x1FF33B	36	43	16	19	205

FF44 - Pipe nipple - BSPP

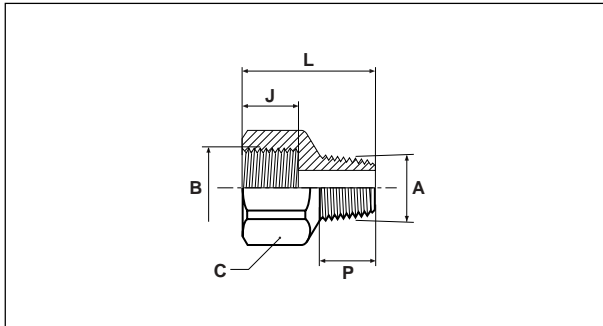


B	Part number	C	J	L	T	Weight g.
1/8	1/8FF44B	14	6	19	8	18
1/4	1/4FF44B	17	7	22	9	22
3/8	3/8FF44B	22	8	24	9	40
1/2	1/2FF44B	27	10	31	11	77

These parts are supplied with two copper seals.

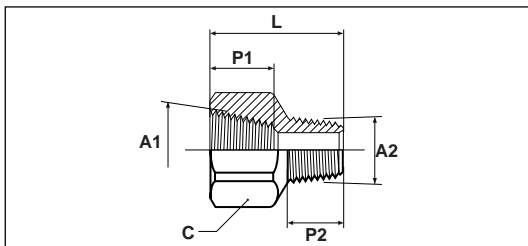
Brass adaptors

FG43 - Reducing connector female-male - BSPP-BSPT



A	B	Part number	C	J	L	P	Weight g.
1/8	1/4	1/4x1/8FG43B	17	11	21.5	6.5	20
1/8	3/8	3/8x1/8FG43B	22	12	25.0	7.5	35
1/4	3/8	3/8x1/4FG43B	22	12	28.0	11.0	40
1/8	1/2	1/2x1/8FG43B	27	15	28.0	6.5	63
1/4	1/2	1/2x1/4FG43B	27	15	30.0	10.0	71
3/8	1/2	1/2x3/8FG43B	27	15	28.6	10.0	66
1/2	3/4	3/4x1/2FG43B	32	16	39.0	15.0	112
3/4	1	1x3/4FG43B	41	18	38.0	16.0	166

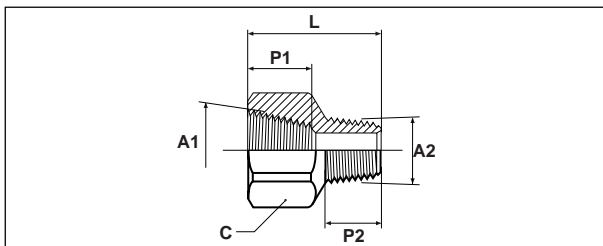
FG - Reducing connector female-male - NPTF - Heavy series



A1	A2	Part number	C*		L	P1	P2	Weight g.	Working pressure (bar)
			in	mm					
1/4	1/8	1/4x1/8FGB	3/4	19,5	31	14	10	32	26
3/8	1/4	3/8x1/4FGB	7/8	22,3	37	15	14	52	26
1/2	3/8	1/2x3/8FGB	1,1/8	28,6	43	19	14	94	22

* Inch dimensions

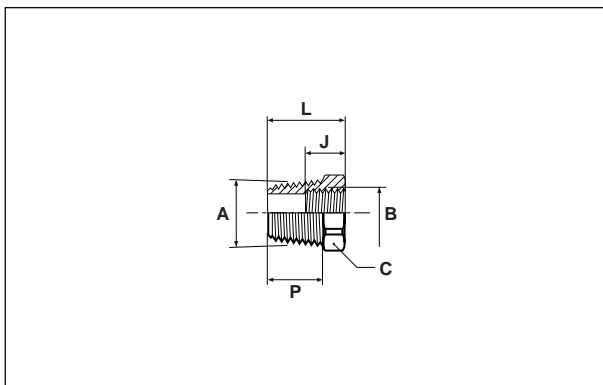
222P - Reducing connector female-male - NPTF



A1	A2	Part number	C*		L	P1	P2	Weight g.
			in	mm				
1/4	1/8	222P-4-2	3/4	19.5	27	14	10	32
3/8	1/4	222P-6-4	7/8	22.3	32	15	14	46
1/2	3/8	222P-8-6	1.1/16	27.0	37	19	14	83

* Inch dimensions

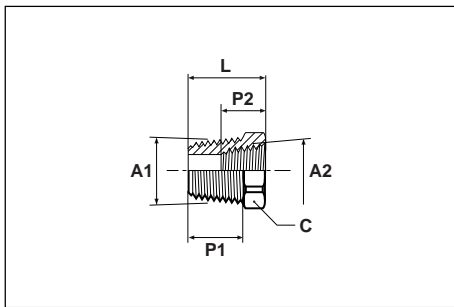
PTR34 - Pipe thread reducer male-female - BSPT-BSPP



A	B	Part number	C	J	L	P	Weight g.
1/4	1/8	1/4x1/8PTR34B	14	8	16.0	11.0	10
3/8	1/8	3/8x1/8PTR34B	17	8	16.5	11.5	21
3/8	1/4	3/8x1/4PTR34B	17	11	14.6	10.0	14
1/2	1/8	1/2x1/8PTR34B	22	8	21.5	15.0	37
1/2	1/4	1/2x1/4PTR34B	22	11	18.3	12.5	42
1/2	3/8	1/2x3/8PTR34B	22	12	21.5	15.0	28
3/4	3/8	3/4x3/8PTR34B	27	12	23.0	16.0	68
3/4	1/2	3/4x1/2PTR34B	27	15	19.5	14.0	48
1	1/2	1x1/2PTR34B	36	15	23.6	17.0	136
1	3/4	1x3/4PTR34B	36	16	27.0	19.0	90

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

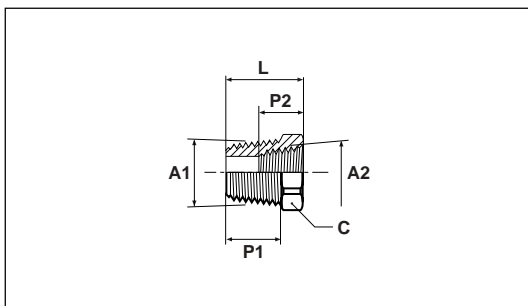
PTR - Pipe thread reducer male-female - NPTF - Heavy series



A1	A2	Part number	C*		L	P1	P2	Weight g.	Working pressure (bar)
			in	mm					
1/4	1/8	1/4x1/8PTRB	5/8	15.9	22	11	8	21	260
3/8	1/8	3/8x1/8PTRB	3/4	19.5	22	11	8	32	260
3/8	1/4	3/8x1/4PTRB	3/4	19.5	22	12	8	28	260
1/2	1/4	1/2x1/4PTRB	7/8	22.3	28	16	13	54	220
1/2	3/8	1/2x3/8PTRB	7/8	22.3	28	15	13	43	220
3/4	3/8	3/4x3/8PTRB	1.1/8	28.6	30	16	14	81	180
3/4	1/2	3/4x1/2PTRB	1.1/8	28.6	30	19	17	78	180

* Inch dimensions

209P - Pipe thread reducer male-female - NPTF



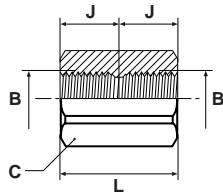
A1	A2	Part number	C*		L	P1	P2	Weight g.
			in	mm				
1/4	1/8	209P-4-2	9/16	14.3	19	11	8	12
3/8	1/8	209P-6-2	11/16	17.5	18	11	8	25
3/8	1/4	209P-6-4	11/16	17.5	19	12	8	17
1/2	1/4	209P-8-4	7/8	22.3	26	16	13	49
1/2	3/8	209P-8-6	7/8	22.3	26	15	13	33
3/4	3/8	209P-12-6	1.1/8	28.6	26	16	14	74
3/4	1/2	209P-12-8	1.1/8	28.6	26	19	17	57

* Inch dimensions

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

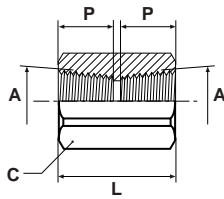
Brass adaptors

GG44 - Pipe connector - BSPP



B	Part number	C	J	L	Weight g.
1/8	1/8GG44B	14	8	16	13
1/4	1/4GG44B	17	10	20	21
3/8	3/8GG44B	22	12	24	28
1/2	1/2GG44B	27	14	28	65
3/4	3/4GG44B	32	16	32	99
1	1GG44B	41	18	36	194

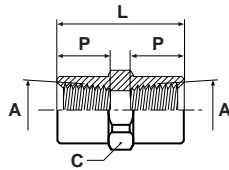
GG - Pipe connector - NPTF - Heavy series



A	Part number	C*		L	P	Weight g.	Working pressure (bar)
		in	mm				
1/8	1/8GGB	5/8	15.9	19	9	21	260
1/4	1/4GGB	3/4	19.5	29	14	46	260
3/8	3/8GGB	7/8	22.3	29	14	60	260
1/2	1/2GGB	1.1/8	28.6	38	18	99	220

* Inch dimensions

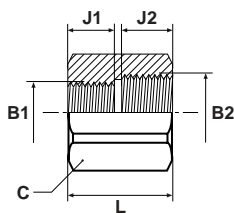
207P - Pipe connector - NPTF



A	Part number	C*		L	P	Weight g.
		in	mm			
1/8	207P-2	9/16	14.3	19	9	17
1/4	207P-4	3/4	19.5	28	14	40
3/8	207P-6	7/8	22.3	28	14	54
1/2	207P-8	1.1/16	27.0	38	18	88

* Inch dimensions

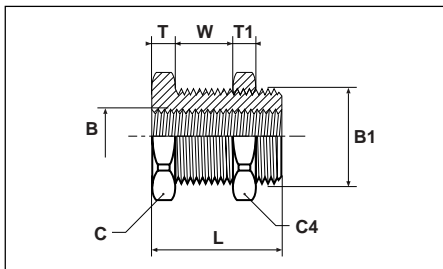
GG44 - Unequal pipe connector - BSPP



B1	B2	Part number	C	J1	J2	L	Weight g.
1/8	1/4	1/8x1/4GG44B	17	8	10	18	23
1/8	3/8	1/8x3/8GG44B	22	8	12	20	45
1/8	1/2	1/8x1/2GG44B	27	8	14	22	75
1/4	3/8	1/4x3/8GG44B	22	10	12	22	46
1/4	1/2	1/4x1/2GG44B	27	10	14	24	79
3/8	1/2	3/8x1/2GG44B	17	12	14	26	68

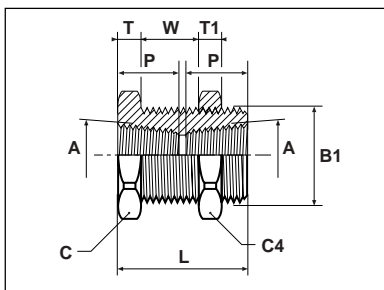
For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

WGG44 - Bulkhead female union - BSPP



B	Part number	B1	C	C4	L	T	T1	W	Weight g.
1/8	1/8WGG44B	M16x1.5	19	22	22	5	5	12	34
1/4	1/4WGG44B	M20x1.5	24	24	22	5	5	12	46
3/8	3/8WGG44B	M23x1.5	27	27	24	6	6	12	58
1/2	1/2WGG44B	M27x1.5	32	32	28	7	7	14	87
3/4	3/4WGG44B	M34x1.5	41	41	31	8	10	13	172
1	1WGG44B	M45x2	55	55	36	11	13	12	453

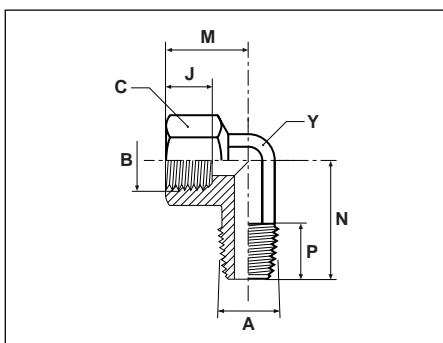
207ACBH - Bulkhead female union - NPTF



A	Part number	B1	C	C4	L	P	T	T1	W	Weight g.
1/8	207ACBH-2	5/8-18	7/8*	15/16*	38	10.0	7	8	20	72
1/4	207ACBH-4	3/4-16	1*	1.1/8*	38	14.0	7	10	18	100
3/8	207ACBH-6	1-14	1.1/8*	1.1/4*	34	15.0	7	10	13	128
1/2	207ACBH-8	1.1/8-14	1.1/4*	1.3/8*	38	19.0	7	12	16	159
3/4	207ACBH-M34	M34x1.5	41	41	39	17.5	10	8	19	214
1	207ACBH-M45	M45x2	55	58	46	20.5	13	11	19	553

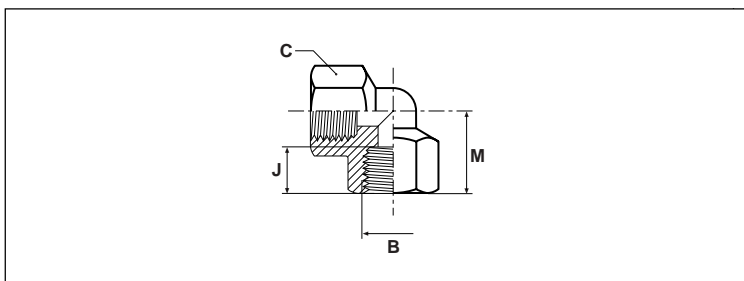
* Inch dimensions

CD43 - 90° elbow male-female - BSPT-BSPP



A	B	Part number	C	J	M	N	P	Y	Weight g.
1/8	1/8	1/8CD43B	14	8	14	19.5	8	10	19
1/4	1/4	1/4CD43B	17	10	18	25.0	11	10	9
3/8	3/8	3/8CD43B	22	12	19	29.0	12	16	65
1/2	1/2	1/2CD43B	27	14	24	37.0	15	19	93

DD44 - 90° female pipe elbow - BSPP

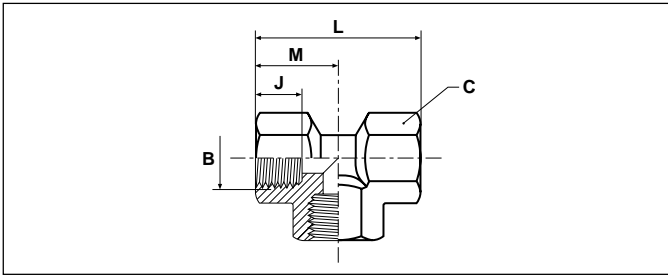


B	Part number	C	J	M	Weight g.
1/8	1/8DD44B	14	8	15	16
1/4	1/4DD44B	17	10	18	11
3/8	3/8DD44B	22	12	22	64
1/2	1/2DD44B	27	14	29	128

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

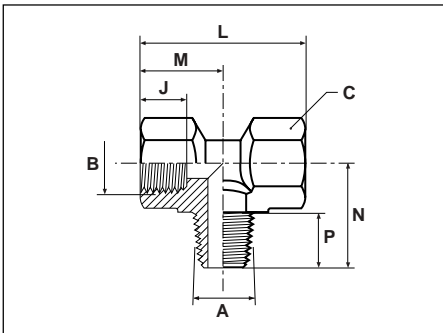
Brass adaptors

MMO444 - Female pipe tee - BSPP



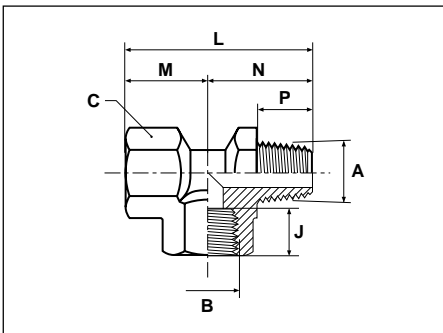
B	Part number	C	J	L	M	Weight g.
1/8	1/8MMO444B	14	8	29	14.5	25
1/4	1/4MMO444B	17	10	36	18.0	59
3/8	3/8MMO444B	22	12	44	22.0	115
1/2	1/2MMO444B	27	14	58	29.0	228
3/4	3/4MMO444B	32	16	62	31.0	339
1	1MMO444B	40	18	85	42.5	719

MMS443 - Branch tee female-female-male - BSPP-BSPP-BSPT



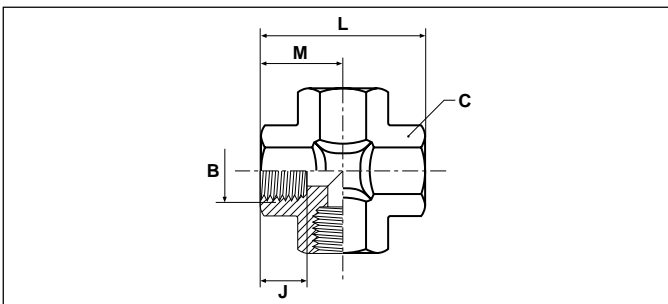
A	B	Part number	C	J	L	M	N	P	Weight g.
1/8	1/8	1/8MMS443B	14	8	29	14.5	17	8	29
1/4	1/4	1/4MMS443B	17	10	36	18.0	22	11	50
3/8	3/8	3/8MMS443B	24	12	48	24.0	25	12	150
1/2	1/2	1/2MMS443B	30	14	62	31.0	32	15	249

MRO434 - Run tee female-male-female - BSPP-BSPT-BSPP



A	B	Part number	C	J	L	M	N	P	Weight g.
1/8	1/8	1/8MRO434B	14	8	32	15	17	8	29
1/4	1/4	1/4MRO434B	17	10	40	18	22	11	51
3/8	3/8	3/8MRO434B	24	12	49	24	25	12	127
1/2	1/2	1/2MRO434B	30	14	63	31	32	15	254

KMMOO4 - Female pipe cross - BSPP

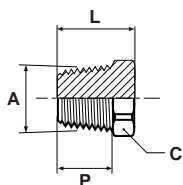


B	Part number	C	J	L	M	Weight g.
1/8	1/8KMMOO4B	14	8	29	14.5	29
1/4	1/4KMMOO4B	17	10	36	18.0	67
3/8	3/8KMMOO4B	22	12	44	22.0	153
1/2	1/2KMMOO4B	27	14	58	29.0	97

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

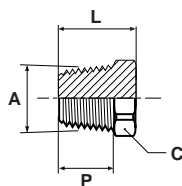
Brass adaptors

HP3 - Hex head plug - BSPT



A	Part number	C	L	P	Weight g.
1/8	1/8HP3B	10	12	8	7
1/4	1/4HP3B	14	16	11	18
3/8	3/8HP3B	17	17	12	29
1/2	1/2HP3B	22	21	15	59
3/4	3/4HP3B	27	24	16	110
1	1HP3B	36	27	19	195

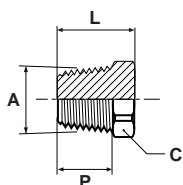
HP - Hex head plug - NPTF - Heavy series



A	Part number	C*		L	P	Weight g.	Working pressure (bar)
		in	mm				
1/8	1/8HPB	7/16	11.2	14	10	8	260
1/4	1/4HPB	9/16	14.3	19	13	20	260
3/8	3/8HPB	11/16	17.5	20	14	33	260
1/2	1/2HPB	7/8	22.3	25	18	58	260

* Inch dimensions

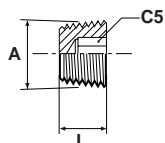
218P - Hex head plug - NPTF



A	Part number	C*		L	P	Weight g.
		in	mm			
1/8	218P-2	7/16	11.2	14	10	8
1/4	218P-4	9/16	14.3	19	13	20
3/8	218P-6	11/16	17.5	20	14	33
1/2	218P-8	7/8	22.3	25	18	58

* Inch dimensions

HHP3 - Hollow hex head plug - BSPT

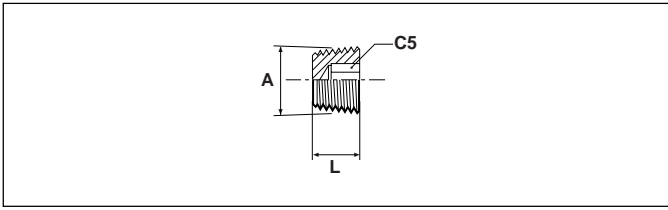


A	Part number	C5	L	Weight g.
1/8	1/8HHP3B	5	8	2
1/4	1/4HHP3B	6	10	5
3/8	3/8HHP3B	8	11	10
1/2	1/2HHP3B	10	13	26

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Brass adaptors

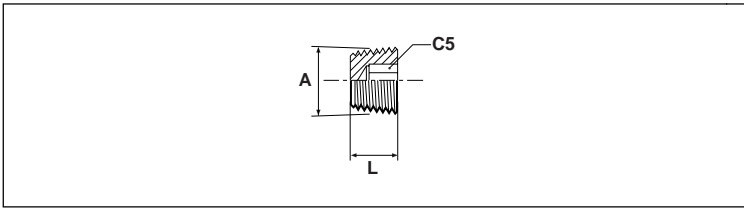
HHP - Hollow hex head plug - NPTF - Heavy series



A	Part number	C5*		L	Weight g.	Working pressure (bar)
		in	mm			
1/8	1/8HHPB	3/16	4.8	8	3	260
1/4	1/4HHPB	1/4	6.4	12	10	260

* Inch dimensions

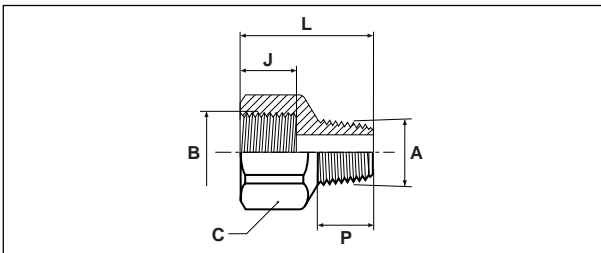
219P - Hollow hex head plug - NPTF



A	Part number	C5*		L	Weight g.
		in	mm		
1/8	219P-2	3/16	4.8	8	3
1/4	219P-4	1/4	6.4	12	10

* Inch dimensions

FHG4 - Conversion adaptor - Male NPT to female BSPP



A	B	Part number	C	J	L	P	Weight g.
1/8	1/8	1/8FHG4B	14	10	22	10	16
1/4	1/4	1/4FHG4B	19	15	32	14	38
3/8	3/8	3/8FHG4B	22	15	32	14	45
1/2	1/2	1/2FHG4B	27	20	42	19	88

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Brass adaptors for automotive industry

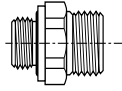
Catalogue 4360-1-UK



Brass adaptors for automotive industry

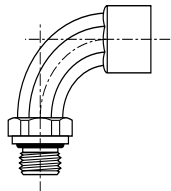
Index

Straight connectors

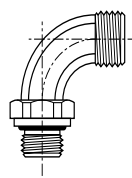


male - BSPP
F4UCOB - p. K 5

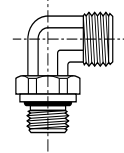
90° elbow connectors



large radius
male-female - BSPP
CL4UD4B - p. K 5

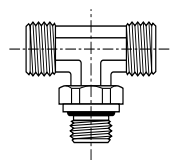


large radius
male - BSPP
CL4UCOB - p. K 5

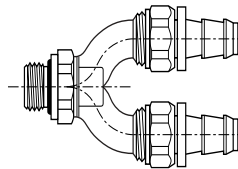


male - BSPP
C4UCOB - p. K 6

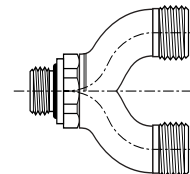
Tee & Y connectors



male tee
BSPP
S4UCOB - p. K 6

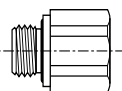


male - BSPP
YGX/X-82 - p. K 6

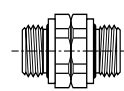


male - BSPP
YGX/XCO - p. K 7

Conversion adaptors



male-female - BSPP
F4UG4B - p. K 7

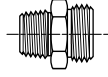


equal pipe nipple
male - BSPP
F4UF4UB - p. K 7

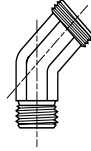
Brass adaptors for automotive industry

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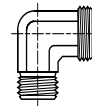
Adaptors



**straight - metric
BSP taper**
E - p. K 8

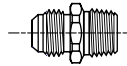


**45° elbow - metric
BSP taper**
EV - p. K 8

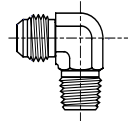


**90° elbow - metric
BSP taper**
EW - p. K 8

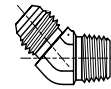
Adaptors
(Ford standard
UWR 003-04180)



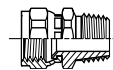
male nipple
M14-4F3 - p. K 9



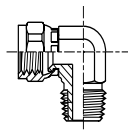
**male nipple
90° elbow**
M14-4C3 p. K 9



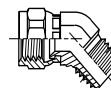
**male nipple
45° elbow**
M14-4V3 - p. K 9



male swivel nut
M14-4F63 - p. K 10



**male swivel nut
90° elbow**
M14-4C63 p. K 10



**male swivel nut
45° elbow**
M14-4V63 - p. K 10

K

Brass adaptors for automotive industry



To improve its brass adaptors range, Parker developed a new range of adaptors particularly designed for the automotive industry.

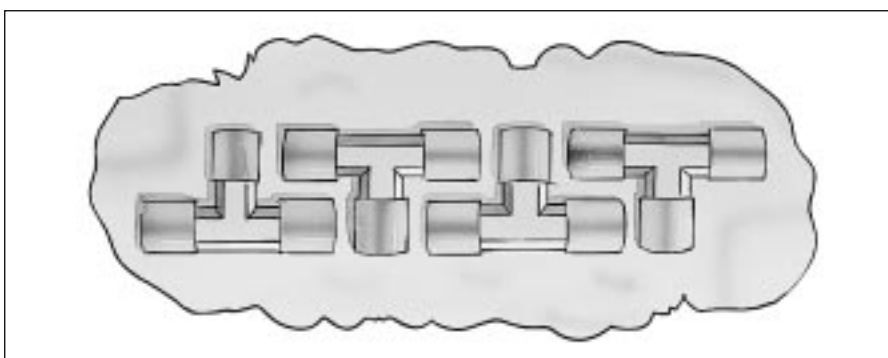
These adaptors are existing in various configuration and are equipped with BSPP pipe threads. They are used to convey water or welding heads cooling system and also on compressed air circuits used to pilot automated clamping system.

Technical features

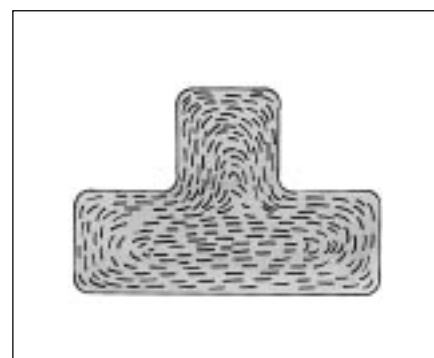
Material	Working temperature	Working pressure
Brass	From - 60°C to + 190°C	60 bar except where indicated

Advantages

Brass forgings



Parker brass adaptors are produced from hot forgings to meet exacting tolerances.



The hot forging process increases the density of the material, refines the grain structure and improves material strength.

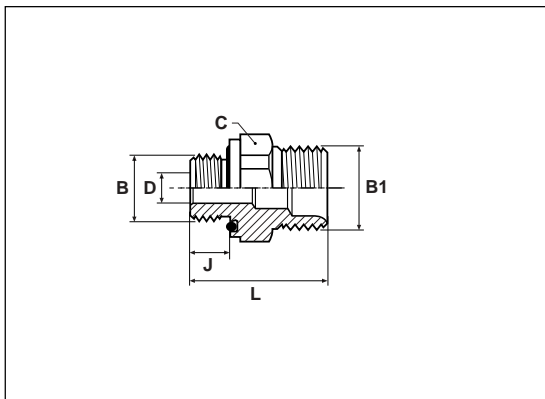
Packaging



Parker brass adaptors are packaged in biodegradable plastic bags preventing thread damage and ensuring a quality adaptor.

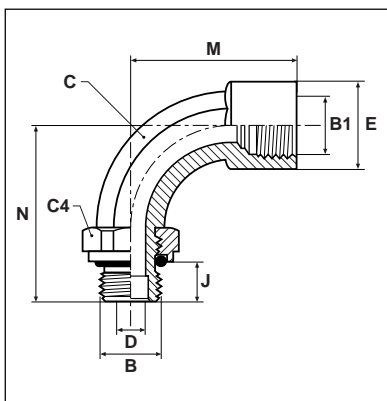
Brass adaptors for automotive industry

F4UCOB - Male connector - BSPP



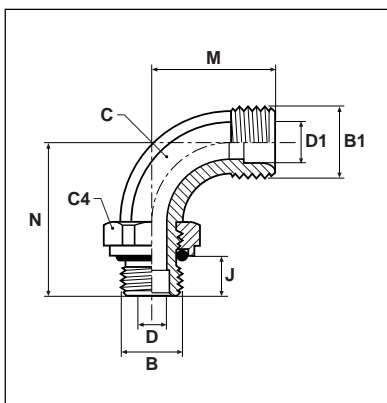
B	B1	Part number	C	D	J	L	Weight g.
1/8	M10x1	F4UCOB6-1/8	14	4.5	6	19.5	29
1/4	M10x1	F4UCOB6-1/4	19	6.5	9	24.0	30
1/8	M12x1	F4UCOB8-1/8	14	10.0	6	20.0	30
1/4	M12x1	F4UCOB8-1/4	19	4.5	9	22.1	31
1/8	M16x1.5	F4UCOB10-1/8	17	6.5	6	24.0	33
1/4	M16x1.5	F4UCOB10-1/4	19	10.0	9	27.5	35
3/8	M16x1.5	F4UCOB10-3/8	22	4.5	9	28.5	40
3/8	M20x1.5	F4UCOB14-3/8	22	6.5	9	28.5	45
3/8	M22x1.5	F4UCOB16-3/8	22	10.0	9	29.0	65
1/2	M22x1.5	F4UCOB16-1/2	27	4.5	12	33.5	70
1/2	M24x1.5	F4UCOB18-1/2	27	6.5	12	34.5	97

CL4UD4B - Male-female 90° elbow - Large radius - BSPP



B	B1	Part number	C	C4	D	E	M	N	J	Weight g.
3/8	3/8	CL4UD4B3/8	17	22	11	22	42	44	9	161
1/2	3/8	CL4UD4B1/2-3/8	17	27	14	22	42	48	12	131

CL4UCOB - Male 90° elbow - Large radius - BSPP

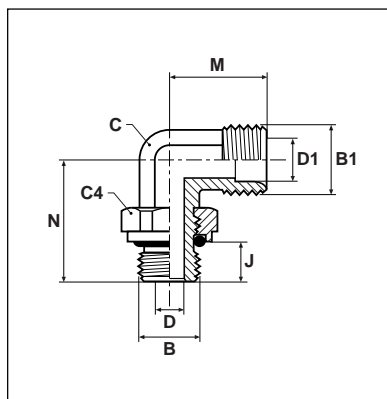


B	B1	Part number	C	C4	D	E	M	N	J	Weight g.
1/4	M16x1.5	CL4UCOB10-1/4	14	19	8	10	27	34	9	60
3/8	M16x1.5	CL4UCOB10-3/8	14	22	11	10	27	35	9	87
3/8	M20x1.5	CL4UCOB14-3/8	14	22	11	14	37	44	9	95

For product availability please consult our price list 0093-UK
 Dimensions shown may be changed at any time without prior notice.

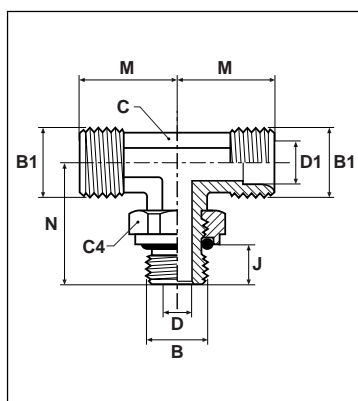
Brass adaptors for automotive industry

C4UCOB - Male 90° elbow - BSPP



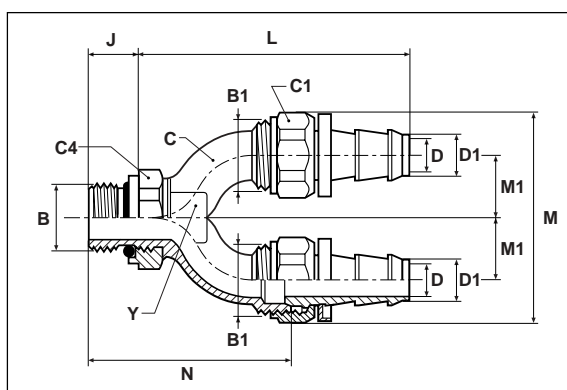
B	B1	Part number	C	C4	D	D1	J	M	N	Weight g.
1/8	M12x1	C4UCOB8-1/8	10	14	5	8	6	18.5	22.0	37
1/4	M12x1	C4UCOB8-1/4	12	19	7	8	9	21.0	30.5	121
1/4	M16x1.5	C4UCOB10-1/4	12	19	7	10	9	22.0	27.5	36
3/8	M16x1.5	C4UCOB10-3/8	14	22	10	10	9	23.0	33.5	84

S4UCOB - Male branch tee - BSPP



B	B1	Part number	C	C4	D	D1	M	N	J	Weight g.
1/4	M16x1.5	S4UCOB10-1/4	14	19	7	10	23	31	9	20

YGX/X-82 - Male Y connector - BSPP

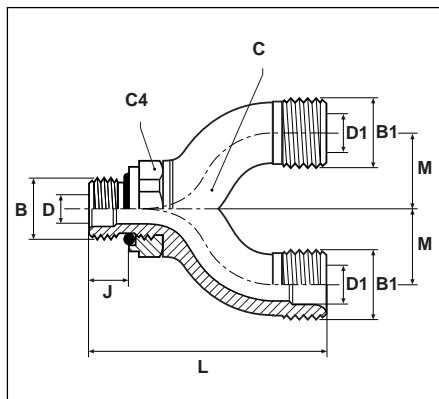


B	B1	Part number	C	C1	C4	D	D1	J	L	M	M1	N	Y	Weight g.
3/8	M20x1.5	YG3/8-82-6B	15	24	22	8	9.5	9	80.0	66	19	48.0	22	197
1/2	M20x1.5	YG1/2-8B	15	24	27	10	12.7	12	85.5	66	19	49.5	22	176
3/8	M16x1.5	YG3/8-82-10-6B	15	19	22	6	9.5	9	81.0	59	19	48.0	22	200

For product availability please consult our price list 0093-UK
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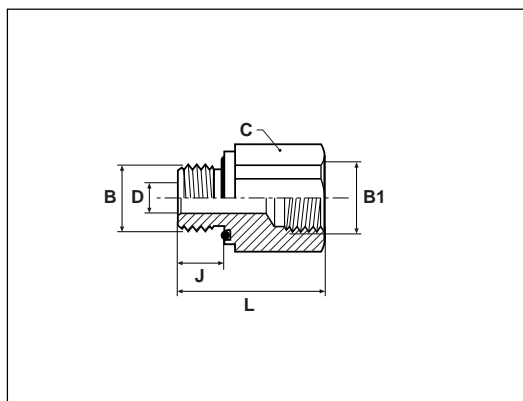
Brass adaptors for automotive industry

YGX/XCO - Male Y connector - BSPP



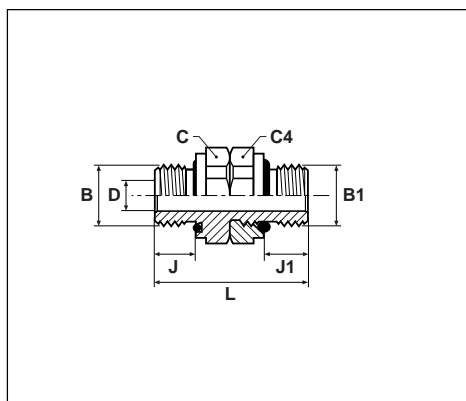
B	B1	Part number	C	C4	D	D1	J	L	M	Weight g.
3/8	M16x1.5	YG3/8CO10COMP	22	22	11	10	9	57.0	19	68
3/8	M20x1.5	YG3/8CO14COMP	22	22	11	14	9	57.0	19	55
1/2	M20x1.5	YG1/2CO14COMP	22	27	14	14	12	61.5	19	62

F4UG4B - Male-female enlarging adaptor - BSPP



B	B1	Part number	C	D	J	L	Weight g.
1/8	1/8	1/8F4UG4B-20	4.5	14	6	20	31
1/4	1/4	1/4F4UG4B-20	6.5	19	9	20	52
1/4	1/4	1/4F4UG4B-30	6.5	19	9	30	76
1/4	1/4	1/4F4UG4B-50	6.5	19	9	50	123
3/8	3/8	3/8F4UG4B-20	10.0	22	9	20	55
3/8	3/8	3/8F4UG4B-30	10.0	22	9	30	80
3/8	3/8	3/8F4UG4B-50	10.0	22	9	50	142

F4UF4UB - Male equal pipe nipple - BSPP

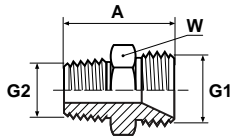


B	B1	Part number	C	C4	D	J	J1	L	Weight g.
1/8	1/8	1/8F4UF4UB	14	14	4.5	6	6	12.5	30
1/4	1/4	1/4F4UF4UB	19	19	6.5	9	9	15.5	45
3/8	3/8	3/8F4UF4UB	22	22	10.0	9	9	17.5	62
1/2	1/2	1/2F4UF4UB	27	27	12.5	12	12	20.5	85
3/4	3/4	3/4F4UF4UB	32	32	18.0	12	12	22.5	95

For product availability please consult our price list 0093-UK
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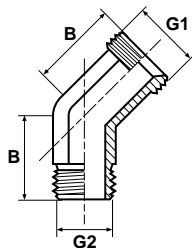
Brass adaptors for automotive industry

E- Straight adaptor - metric 60° cone - BSPT



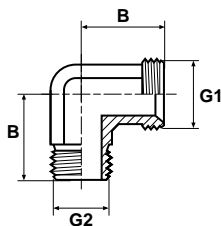
DN	Part number	Thread		A mm	W mm	Weight g.
		G1 metric	G2 BSPT			
6	EG6-1/8B	M12x1	1/8	23	14	20
6	EG6-1/4B	M12x1	1/4	28	14	27
6	EG12x15-1/8B	M12x1.5	1/8	23	14	20
6	EG12x15-1/4B	M12x1.5	1/4	28	14	27
8	EG8-1/4B	M14x1.5	1/4	28	17	36
8	EG8-3/8B	M14x1.5	3/8	28	19	94
10	EG10-1/4B	M16x1.5	1/4	28	19	30
10	EG10-1/2B	M16x1.5	1/2	32	24	73
10	EG10-3/8B	M16x1.5	3/8	28	19	35
12	EG15-1/2B	M22x1.5	1/2	34	24	40
12	EG15-3/8B	M22x1.5	3/8	34	24	79
16	EG18-3/4B	M26x1.5	3/4	38	27	247

EV - 45° elbow adaptor - metric 60° cone - BSPT



DN	Part number	Thread		B mm	Weight g.
		G1 metric	G2 BSPT		
6	EV6-1/8B	M12x1	1/8	20	43
6	EV6-1/4B	M12x1	1/4	20	43
8	EV8-1/4B	M14x1.5	1/4	27	63
8	EV8-3/8B	M14x1.5	3/8	27	97
10	EV10-1/4B	M16x1.5	1/4	27	129
10	EV10-3/8B	M16x1.5	3/8	27	197
12	EV15-1/2B	M22x1.5	1/2	30	11

EW - 90° elbow adaptor - metric 60° cone - BSPT

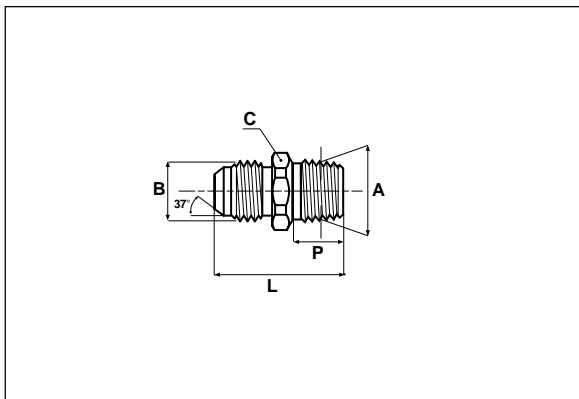


DN	Part number	Thread		B mm	Weight g.
		G1 metric	G2 BSPT		
6	EW6-1/8B	M12x1	1/8	20	29
6	EW6-1/4B	M12x1	1/4	20	55
6	EW12x15-1/4B	M12x1.5	1/4	20	88
8	EW8-1/4B	M14x1.5	1/4	27	64
8	EW8-3/8B	M14x1.5	3/8	27	151
10	EW10-1/4B	M16x1.5	1/4	27	45
10	EW10-3/8B	M16x1.5	3/8	27	100
12	EW15-1/2B	M22x1.5	1/2	30	130

For product availability please consult our price list 0093-UK
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Brass adaptors for automotive industry

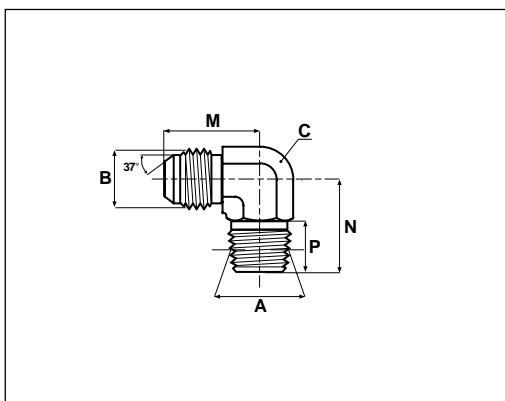
M14-4F3 - Male nipple straight fitting (Ford standard UW003-04180)



A	B	Part number	C	L	P	Weight g.
1/4	M14x1.5	M14-4F3MX8BL31	17	31	12	31

Designed to be used in conjunction with Parker Push-Lok hose fittings H898 202 and H897 995 for both welding robots and portable guns on water cooling and compressed air circuits. See the Push-Lok Hose and Fitting section (P).

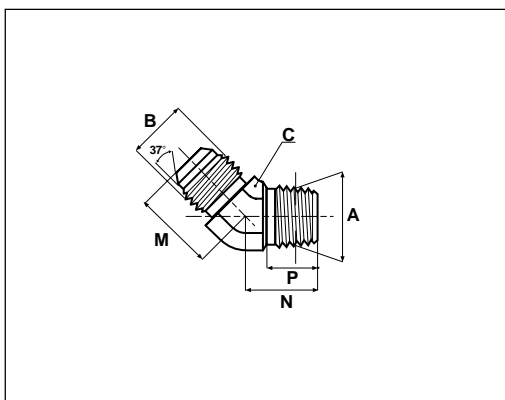
M14-4C3 - Male nipple 90° elbow (Ford standard UW003-04180)



A	B	Part number	C	M	N	P	Weight g.
1/4	M14x1.5	M14-4C3MX8BH22	14	25	22	12	76

Designed to be used in conjunction with Parker Push-Lok hose fittings H898 202 and H897 995 for both welding robots and portable guns on water cooling and compressed air circuits. See the Push-Lok Hose and Fitting section (P).

M14-4V3 - Male nipple 45° elbow (Ford standard UW003-04180)



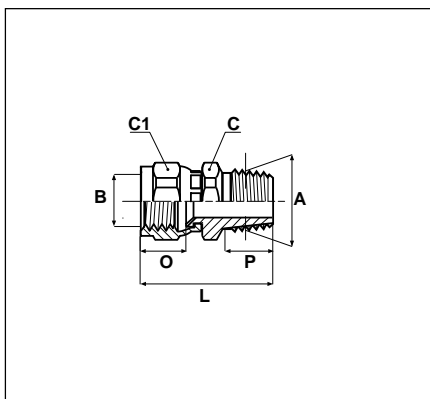
A	B	Part number	C	M	N	P	Weight g.
1/4	M14x1.5	M14-4V3MX8BH17	14	18	17	12	45

Designed to be used in conjunction with Parker Push-Lok hose fittings H898 202 and H897 995 for both welding robots and portable guns on water cooling and compressed air circuits. See the Push-Lok Hose and Fitting section (P).

For product availability please consult our price list 0093-UK
Dimensions shown may be changed at any time without prior notice.

Brass adaptors for automotive industry

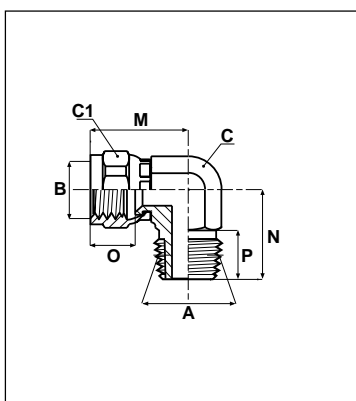
M14-4F63 - Male swivel nut straight fitting (Ford standard UW003-04180)



A	B	Part number	C	C1	L	O	P	Weight g.
1/4	M14x1.5	M14-4F63MX8BL32	17	17	32	11	12	58

Designed to be used in conjunction with Parker Push-Lok hose fittings H898 202 and H897 995 for both welding robots and portable guns on water cooling and compressed air circuits. See the Push-Lok Hose and Fitting section (P).

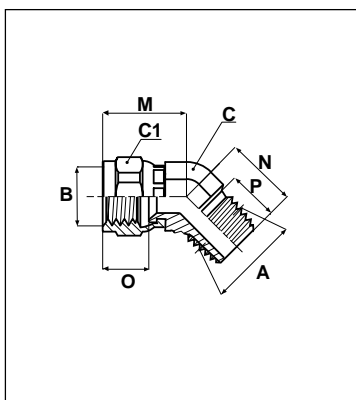
M14-4C63 - Male swivel nut 90° elbow (Ford standard UW003-04180)



A	B	Part number	C	C1	M	N	O	P	Weight g.
1/4	M14x1.5	M14-4C63MX8BH22	14	17	24	22	11	12	62

Designed to be used in conjunction with Parker Push-Lok hose fittings H898 202 and H897 995 for both welding robots and portable guns on water cooling and compressed air circuits. See the Push-Lok Hose and Fitting section (P).

M14-4V63 - Male swivel nut 45° elbow (Ford standard UW003-04180)



A	B	Part number	C	C1	M	N	O	P	Weight g.
1/4	M14x1.5	M14-4V63MX8BH17	14	17	20	7	11	12	57

For product availability please consult our price list 0093-UK
Dimensions shown may be changed at any time without prior notice.

Pneumatic adaptors

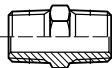
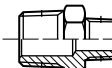
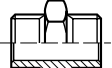
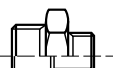
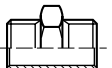






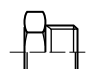
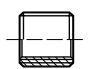


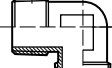
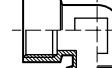
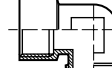
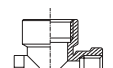
*Nickel plated brass
adaptors for
pneumatic applications*

Catalogue 4360-2-UK



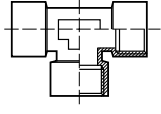
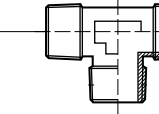
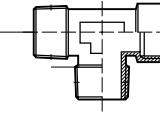
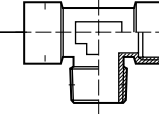
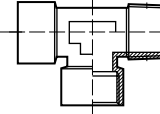
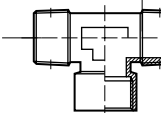
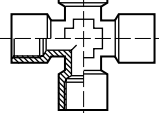
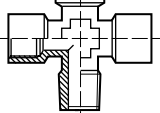
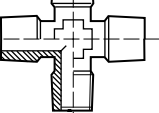





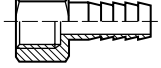
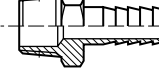
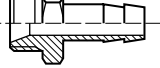
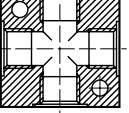
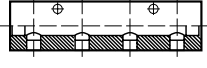
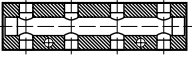

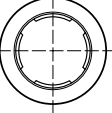
Pneumatic adaptors

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Reducers							
	unequal metric / BSPP FF84 - p. L 7	male-male BSPT FF633 - p. L 7	female-male BSPP-BSPT FG43 - p. L 7	female-male BSPP / metric FG48 - p. L 8	female-male BSPP FG44 - p. L 8	female-male extend. BSPP FF41G4 - p. L 8	male-female BSPT-BSPP PTR34 - p. L 8
Pipe connectors and bulkhead unions							
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Pneumatic adaptors

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L

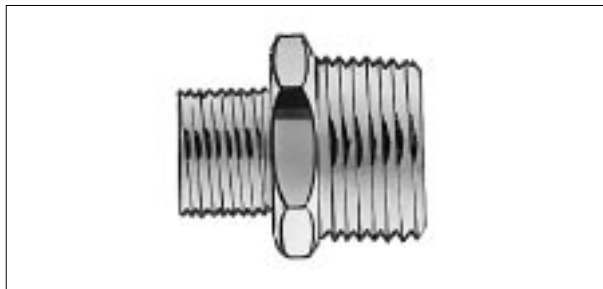
Pneumatic adaptors

Principle

To simplify the installation of pneumatic systems, Parker supplies a comprehensive range of adaptors with BSPT, BSPP and metric threads.

The range includes pipe nipples, reducers, bulkhead unions, elbows, tees, crosses and plugs.

The technical features of the pneumatic adaptors allow their use in several applications as well as with other compatible products within the Parker range.



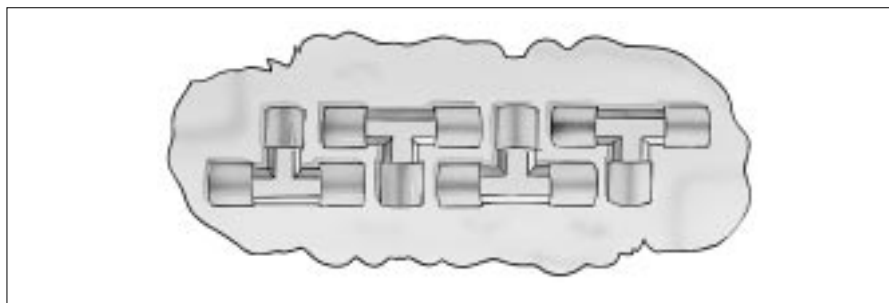
Technical features

Material	Threads*	Working pressure	Working temperature
Nickel plated brass	BSPP BSPT Metric	from 0.01 to 15 bar	from - 60°C to + 190°C

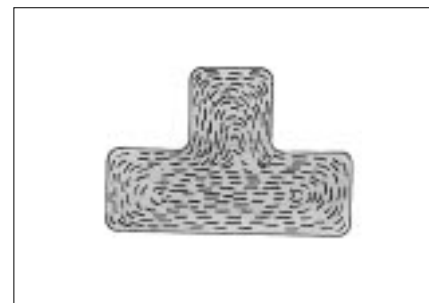
* These adaptors have been designed for low pressure applications with the principal target to reduce space and weight. They are compatible with most of current threads used on this type of application. If a specific standard is required, please consult us.

Advantages

Brass forgings



Parker pneumatic adaptors are produced from hot forgings to meet exacting tolerances.



The hot forging process increases the density of the material, refines the grain structure and improves material strength.

Advantages



Brass nickel plated body

Brass is a raw material providing :

- robustness,
- excellent shock resistance,
- good temperature capability,
- nickel plating gives improved corrosion resistance and a bright appearance which does not deteriorate.



Excellent features

Pneumatic adaptors have been designed to guarantee :

- an efficient and economic solution for all applications,
- compact dimensions where space is at a premium,
- a significant weight saving.

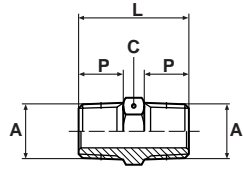


Packaging

Parker pneumatic adaptors are packaged in biodegradable plastic bags preventing thread damage and ensuring a quality adaptor.

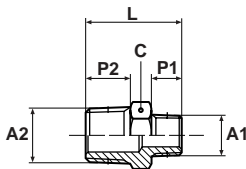
Pneumatic adaptors

FF33 - Equal pipe nipple - BSPT



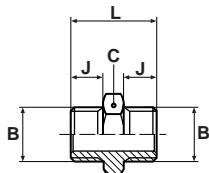
A	Part number	C	L	P	Weight g.
1/8	1/8FF33BL	12	19.5	7.5	9
1/4	1/4FF33BL	14	27.0	11.0	17
3/8	3/8FF33BL	17	28.0	11.5	27
1/2	1/2FF33BL	22	33.5	14.0	41
3/4	3/4FF33BL	27	40.0	16.5	80
1	1FF33BL	34	45.5	19.0	145

FF33 - Unequal pipe nipple - BSPT



A1	A2	Part number	C	L	P1	P2	Weight g.
1/8	1/4	1/8x1/4FF33BL	14	23.5	7.5	11.0	14
1/8	3/8	1/8x3/8FF33BL	17	24.0	7.5	11.5	19
1/8	1/2	1/8x1/2FF33BL	22	27.0	7.5	14.0	32
1/4	3/8	1/4x3/8FF33BL	17	27.5	11.0	11.5	23
1/4	1/2	1/4x1/2FF33BL	22	30.5	11.0	14.0	35
3/8	1/2	3/8x1/2FF33BL	22	31.0	11.5	14.0	37
1/2	3/4	1/2x3/4FF33BL	27	37.5	14.0	16.5	67
3/4	1	3/4x1FF33BL	34	43.0	16.5	19.0	125

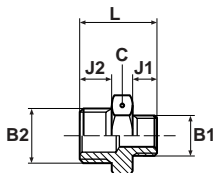
FF44 - Equal pipe nipple - BSPP



B	Part number	C	J	L	Weight g.
1/8	1/8FF44BL	14	6	16.5	9
1/4	1/4FF44BL	17	8	21.0	17
3/8	3/8FF44BL	19	9	23.5	23
1/2	1/2FF44BL	24	10	25.5	34

These parts require two RRD or RRP washers to order separately.

FF44 - Unequal pipe nipple - BSPP



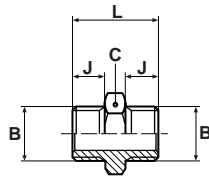
B1	B2	Part number	C	J1	J2	L	Weight g.
1/8	1/4	1/8x1/4FF44BL	17	6	8	19.0	15
1/8	3/8	1/8x3/8FF44BL	19	6	9	20.0	20
1/4	3/8	1/4x3/8FF44BL	19	8	9	22.0	21
1/4	1/2	1/4x1/2FF44BL	24	8	10	23.5	31
3/8	1/2	3/8x1/2FF44BL	24	9	10	24.5	34
1/2	3/4	1/2x3/4FF44BL	30	10	12	27.5	75

These parts require two RRD or RRP washers to order separately.

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Pneumatic adaptors

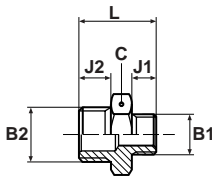
FF88 - Equal pipe nipple - Metric



B	Part number	C	J	L	Weight g.
M5	M5FF88BL	8	4	11.5	2

This part requires two RRD or RRP washers to order separately.

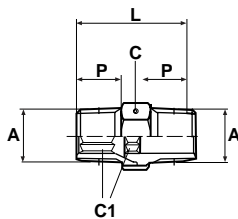
FF84 - Unequal pipe nipple - Metric / BSPP



B1	B2	Part number	C	J1	J2	L	Weight g.
M5	1/8	M5x1/8FF84BL	14	4	6	14.5	8

This part requires two RRD or RRP washers to order separately.

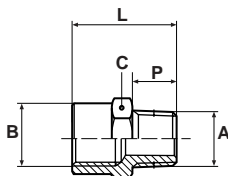
FF633 - Swivel pipe nipple male-male - BSPT



A	Part number	C	C1	L	P	Weight g.
1/8	1/8FF633BL	15	5	27.0	9.0	18
1/4	1/4FF633BL	19	6	33.5	11.5	36
3/8	3/8FF633BL	22	8	36.5	13.0	55
1/2	1/2FF633BL	27	12	45.0	15.5	90
3/4	3/4FF633BL	36	14	52.5	18.0	261
1	1FF633BL	46	19	63.5	22.0	600

Fittings not nickel plated.

FG43 - Reducing connector female-male - BSPP-BSPT

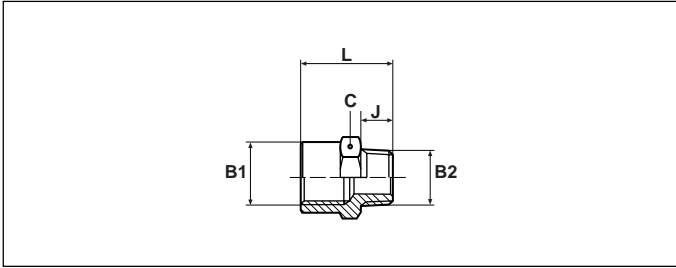


A	B	Part number	C	L	P	Weight g.
1/8	1/8	1/8FG43BL	14	20.0	7.5	11
1/8	3/8	3/8x1/8FG43BL	22	23.0	7.5	29
1/8	1/4	1/4x1/8FG43BL	17	22.0	7.5	18
1/4	1/4	1/4FG43BL	17	26.0	11.0	22
3/8	1/4	3/8x1/4FG43BL	22	27.0	11.0	34
1/2	1/4	1/2x1/4FG43BL	26	30.0	11.0	45
3/8	3/8	3/8FG43BL	22	27.5	11.0	37
1/2	3/8	1/2x3/8FG43BL	26	30.5	11.5	30
1/2	1/2	1/2FG43BL	26	33.0	14.0	50
3/4	1/2	3/4x1/2FG43BL	32	35.0	14.0	80

For product availability please consult our price list 0093-UK.
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Pneumatic adaptors

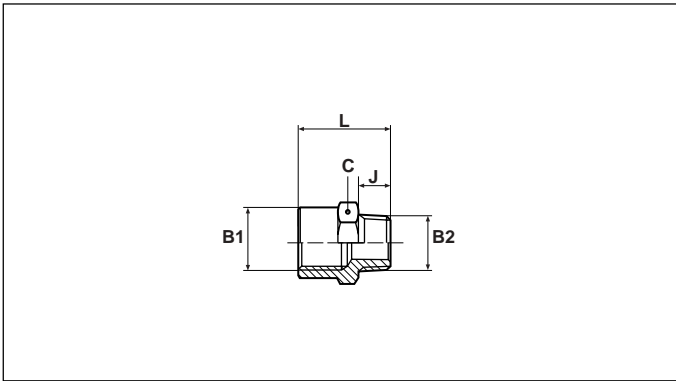
FG48 - Reducing connector female-male - BSPP / Metric



B1	B2	Part number	C	J	L	Weight g.
1/8	M5	1/8xM5FG48BL	14	4	14.5	8

This part requires one RRD or RRP washer to order separately.

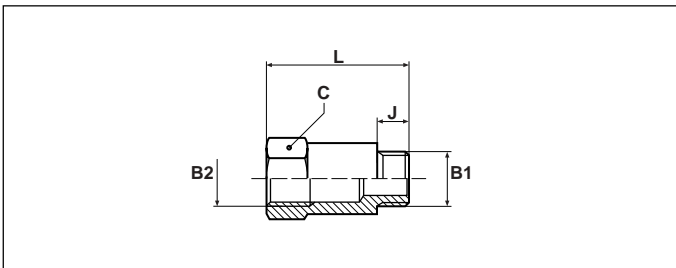
FG44 - Reducing connector female-male - BSPP



B1	B2	Part number	C	J	L	Weight g.
1/8	1/8	1/8FG44BL	14	6	17.0	11
3/8	1/8	3/8x1/8FG44BL	22	6	21.5	29
1/4	1/8	1/4x1/8FG44BL	17	6	20.5	18
1/4	1/4	1/4FG44BL	17	8	22.5	19
3/8	1/4	3/8x1/4FG44BL	22	8	23.5	31
3/8	3/8	3/8FG44BL	22	9	24.5	33
1/2	1/4	1/2x1/4FG44BL	26	8	26.5	42
1/2	3/8	1/2x3/8FG44BL	26	9	27.5	45
1/2	1/2	1/2FG44BL	26	10	28.5	46

These parts require one RRD or RRP washer to order separately.

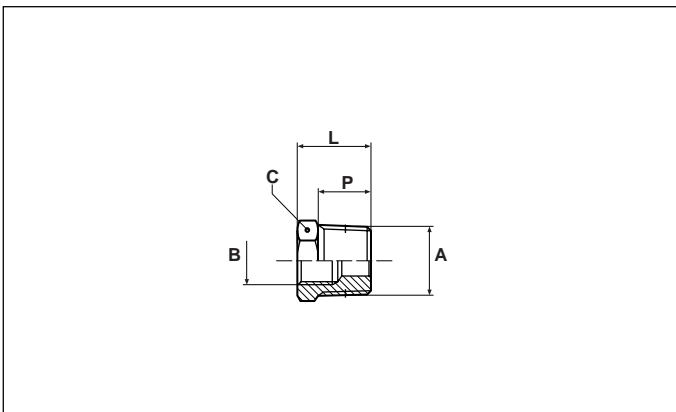
FF41G4 - Extended connector female-male - BSPP



B1	B2	Part number	C	J	L	Weight g.
1/8	1/8	1/8FF41G4BL22L	14	6	22	15
1/8	1/8	1/8FF41G4BL42L	14	6	42	27
1/4	1/4	1/4FF41G4BL35L	17	8	35	30
1/4	1/4	1/4FF41G4BL51L	17	8	51	44

These parts require one RRD or RRP washer to order separately.

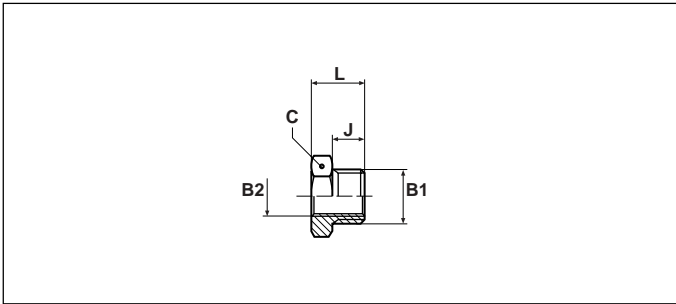
PTR34 - Pipe thread reducer male-female - BSPT-BSPP



A	B	Part number	C	L	P	Weight g.
1/4	1/8	1/4x1/8PTR34BL	14	16.0	11.0	11
3/8	1/8	3/8x1/8PTR34BL	17	16.5	11.5	12
1/2	1/8	1/2x1/8PTR34BL	22	19.5	14.0	46
3/8	1/4	3/8x1/4PTR34BL	17	16.5	11.5	14
1/2	1/4	1/2x1/4PTR34BL	22	19.5	14.0	37
1/2	3/8	1/2x3/8PTR34BL	22	19.5	14.0	25
3/4	3/8	3/4x3/8PTR34BL	27	23.5	16.5	47
3/4	1/2	3/4x1/2PTR34BL	27	23.5	16.5	48
1	1/2	1x1/2PTR34BL	34	26.5	19.0	130
1	3/4	1x3/4PTR34BL	34	26.5	19.0	77
1.1/4	1/2	1.1/4x1/2PTR34BL	45	31.0	22.0	220

Pneumatic adaptors

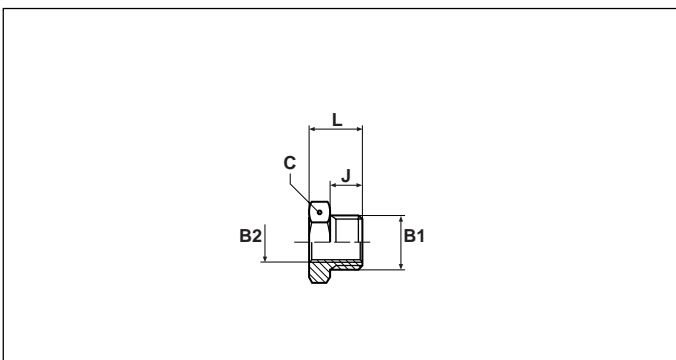
PTR48 - Pipe thread reducer male-female - BSPP / Metric



B1	B2	Part number	C	J	L	Weight g.
1/8	M5	1/8xM5PTR48BL	14	6	10.5	8

This part requires one RRD or RRP washer to order separately.

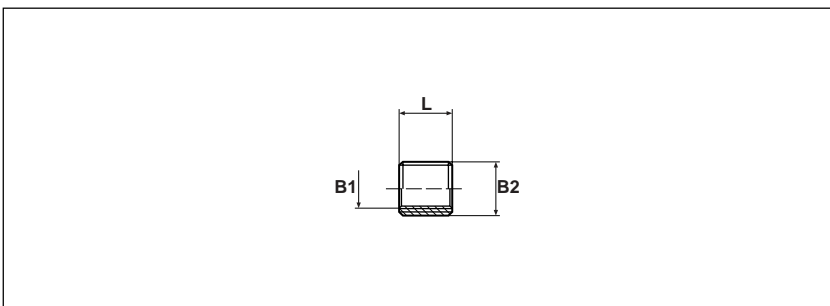
PTR44 - Pipe thread reducer male-female - BSPP



B1	B2	Part number	C	J	L	Weight g.
1/4	1/8	1/4x1/8PTR44BL	17	8	13.0	10
3/8	1/8	3/8x1/8PTR44BL	19	9	14.0	19
1/2	1/8	1/2x1/8PTR44BL	24	10	15.5	39
3/8	1/4	3/8x1/4PTR44BL	19	9	14.0	13
1/2	1/4	1/2x1/4PTR44BL	24	10	15.5	32
1/2	3/8	1/2x3/8PTR44BL	24	10	15.5	33
3/4	3/8	3/4x3/8PTR44BL	30	12	17.5	54
3/4	1/2	3/4x1/2PTR44BL	30	12	17.5	38

These parts require one RRD or RRP washer to order separately.

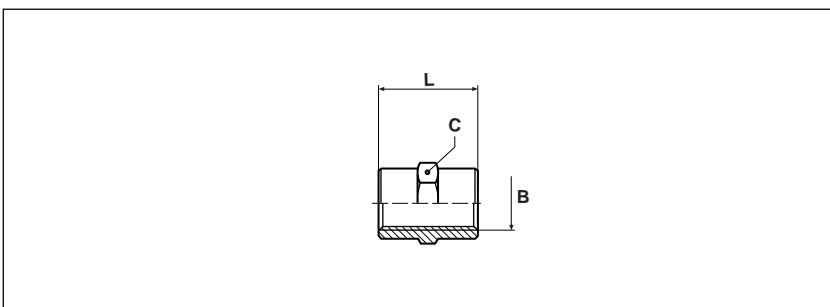
PTR44H - Pipe thread reducer male-female - BSPP



B1	B2	Part number	L	Weight g.
1/8	1/4	1/4x1/8PTR44HBL	8	3
1/4	3/8	3/8x1/4PTR44HBL	9	5
3/8	1/2	1/2x3/8PTR44HBL	10	7
1/2	3/4	3/4x1/2PTR44HBL	14	19
3/4	1	1x3/4PTR44HBL	20	41

Fittings not nickel plated.

GG88 - Equal pipe connector - Metric

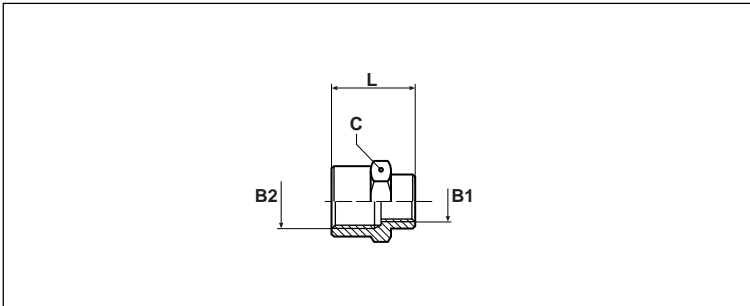


B	Part number	C	L	Weight g.
M5	M5GG88BL	8	11	3

For product availability please consult our price list 0093-UK.
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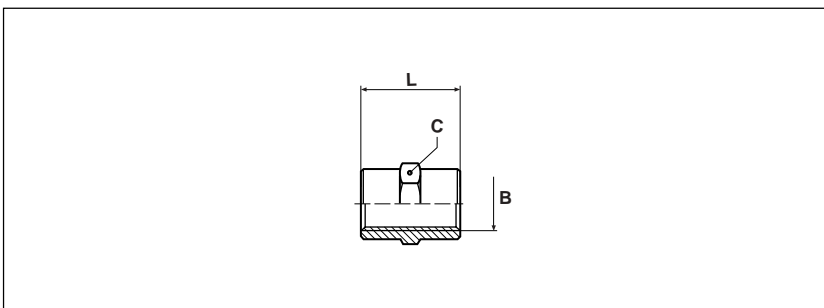
Pneumatic adaptors

GG84 - Unequal pipe connector - Metric



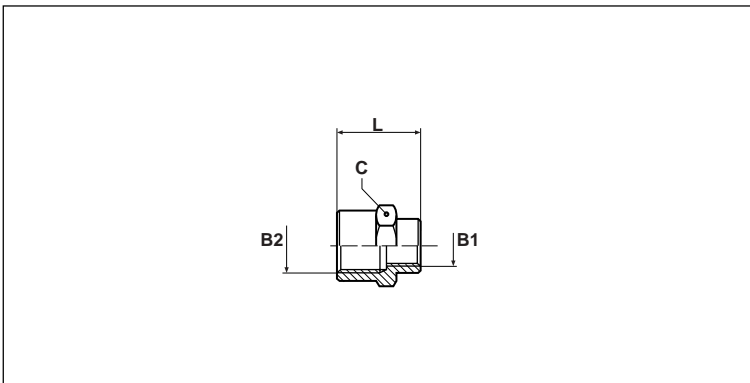
B1	B2	Part number	C	L	Weight g.
M5	1/8	M5x1/8GG84BL	14	13	10

GG44 - Equal pipe connector - BSPP



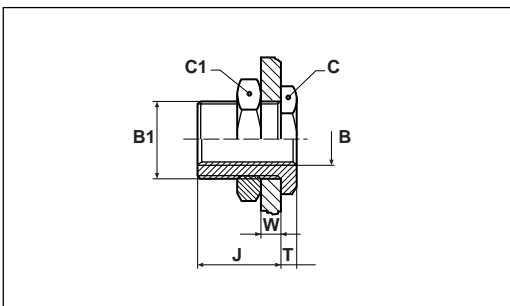
B	Part number	C	L	Weight g.
1/8	1/8GG44BL	14	15	15
1/4	1/4GG44BL	17	22	18
3/8	3/8GG44BL	22	24	34
1/2	1/2GG44BL	26	30	54
3/4	3/4GG44BL	32	32	78

GG44 - Unequal pipe connector - BSPP



B1	B2	Part number	C	L	Weight g.
1/8	1/4	1/8x1/4GG44BL	17	19.0	16
1/8	3/8	1/8x3/8GG44BL	22	20.0	23
1/8	1/2	1/8x1/2GG44BL	24	20.0	15
1/4	3/8	1/4x3/8GG44BL	22	23.0	29
1/4	1/2	1/4x1/2GG44BL	24	25.0	30
3/8	1/2	3/8x1/2GG44BL	24	27.5	31
1/2	1	1/2x1GG44BL	40	39.0	145
3/4	1/2	3/4x1/2GG44BL	30	30.0	33
3/4	1	3/4x1GG44BL	40	41.0	146

WGG44 - Bulkhead female union - Metric or BSPP

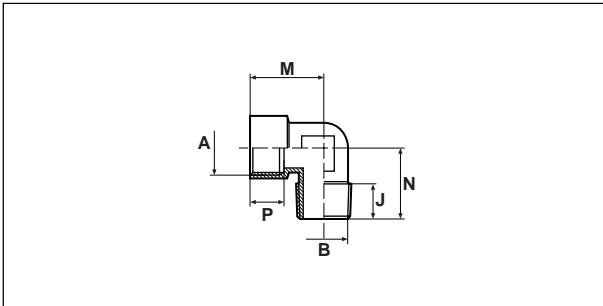


B	Part number	B1	C	C1	J	T	W Max.	Weight g.
M5	M5WGG44BL	M10x1.5	14	14	10.5	3.5	7	12
1/8	1/8WGG44BL	M16x1.5	19	22	14.0	4.0	10	30
1/4	1/4WGG44BL	M20x1.5	24	27	21.0	4.0	16	55
3/8	3/8WGG44BL	M26x1.5	30	32	21.0	5.0	15	93
1/2	1/2WGG44BL	M28x1.5	32	36	27.0	6.0	21	112

For product availability please consult our price list 0093-UK.
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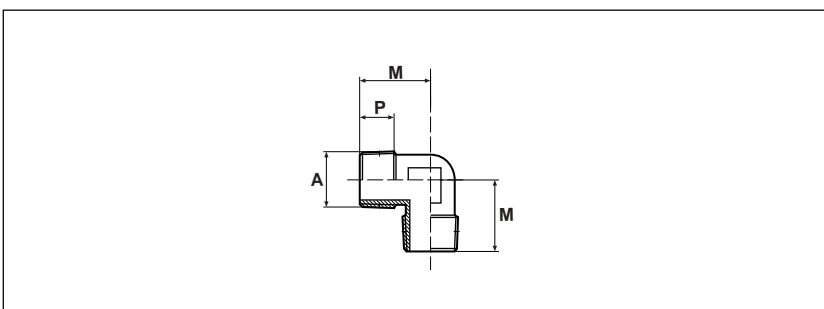
Pneumatic adaptors

CD43 - 90° female-male elbow - BSPP-BSPT



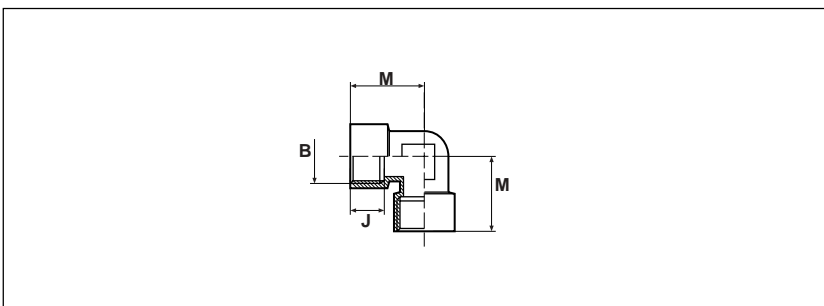
A	B	Part number	J	M	N	P	Weight g.
1/8	1/8	1/8CD43BL	8.5	19	21	8.0	19
1/4	1/4	1/4CD43BL	11.0	24	26	11.0	31
3/8	3/8	3/8CD43BL	12.0	27	28	11.5	50
1/2	1/2	1/2CD43BL	15.0	30	32	14.0	74
3/4	3/4	3/4CD43BL	16.5	32	37	14.5	124
1	1	1CD43BL	19.0	39	45	16.8	200

CR33 - 90° equal male elbow - BSPT



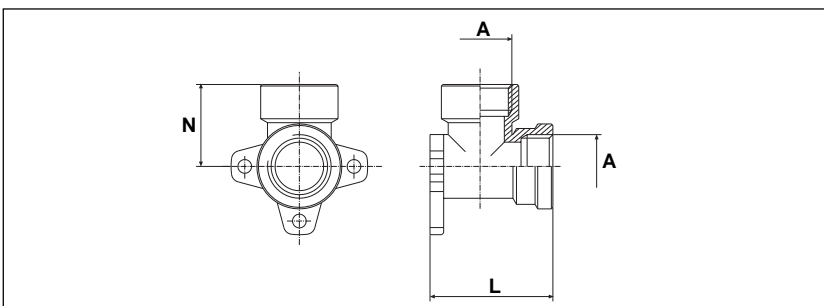
A	Part number	M	P	Weight g.
1/8	1/8CR33BL	18.5	7.5	16
1/4	1/4CR33BL	24.0	11.0	27
3/8	3/8CR33BL	27.0	12.0	44
1/2	1/2CR33BL	29.5	14.0	61
3/4	3/4CR33BL	32.0	14.5	97
1	1CR33BL	39.0	16.8	166

DD44 - 90° female pipe elbow - BSPP



B	Part number	J	M	Weight g.
1/8	1/8DD44BL	8.5	21.0	22
1/4	1/4DD44BL	11.0	25.5	36
3/8	3/8DD44BL	12.0	28.0	54
1/2	1/2DD44BL	15.0	32.0	91
3/4	3/4DD44BL	16.5	36.5	154
1	1DD44BL	19.0	45.0	233

DD44BKTL - 90° bracketed equal female elbow - BSPP

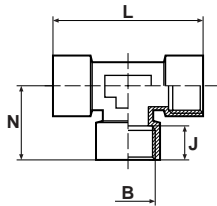


A	Part number	L	N	Weight g.
1/2	1/2DD44BKTL	40.5	27	110

For product availability please consult our price list 0093-UK.
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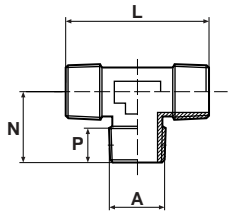
Pneumatic adaptors

MMO444 - Female pipe tee - BSPP



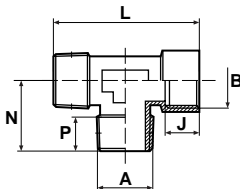
B	Part number	J	L	N	Weight g.
1/8	1/8MMO444BL	8.5	39	19.5	30
1/4	1/4MMO444BL	11.0	49	24.5	50
3/8	3/8MMO444BL	12.0	54	27.0	72
1/2	1/2MMO444BL	15.0	64	32.0	132
3/4	3/4MMO444BL	16.5	73	36.5	220
1	1MMO444BL	19.0	90	45.0	325

RRS333 - Male pipe tee - BSPT



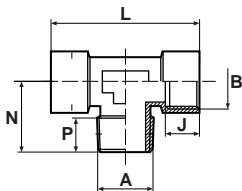
A	Part number	L	N	P	Weight g.
1/8	1/8RRS333BL	35.0	17.5	8.0	20
1/4	1/4RRS333BL	46.0	23.0	11.0	36
3/8	3/8RRS333BL	51.5	25.5	11.5	55
1/2	1/2RRS333BL	59.0	29.5	14.0	85
3/4	3/4RRS333BL	64.0	32.0	14.5	127
1	1RRS333BL	78.0	39.0	16.8	208

MRS433 - Run tee female-male-male - BSPT-BSPP-BSPT



A	B	Part number	J	L	N	P	Weight g.
1/8	1/8	1/8MRS433BL	8.5	37.0	17.5	8.0	23
1/4	1/4	1/4MRS433BL	11.0	47.5	23.0	11.0	40
3/8	3/8	3/8MRS433BL	12.0	52.5	25.5	11.5	61
1/2	1/2	1/2MRS433BL	15.0	61.5	29.5	14.0	98
3/4	3/4	3/4MRS433BL	16.5	68.5	29.5	14.5	157
1	1	1MRS433BL	19.0	84.0	29.5	16.8	244

MMS443 - Branch tee female-female-male - BSPP-BSPP-BSPT

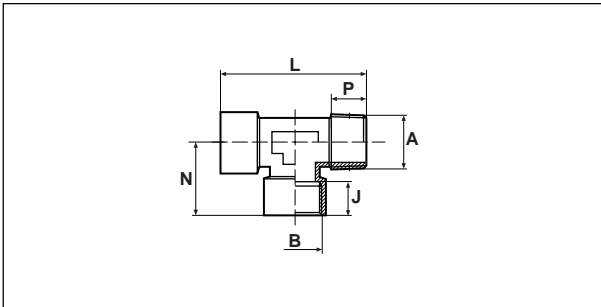


A	B	Part number	J	L	N	P	Weight g.
1/8	1/8	1/8MMS443BL	8.5	39	18	8.0	26
1/4	1/4	1/4MMS443BL	11.0	49	23	11.0	44
3/8	3/8	3/8MMS443BL	12.0	54	26	11.5	65
1/2	1/2	1/2MMS443BL	15.0	64	29	14.0	118
3/4	3/4	3/4MMS443BL	16.5	73	32	14.5	190
1	1	1MMS443BL	19.0	90	39	16.8	280

For product availability please consult our price list 0093-UK.
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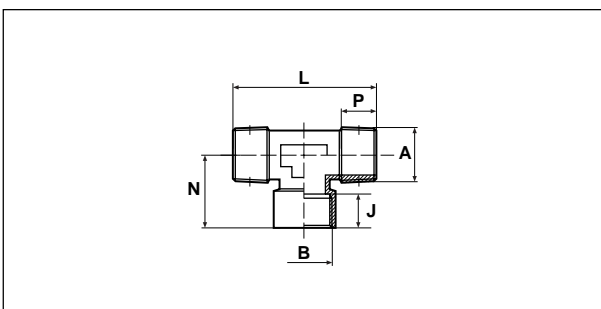
Pneumatic adaptors

MRO434 - Run tee female-male-female - BSPP-BSPT-BSPP



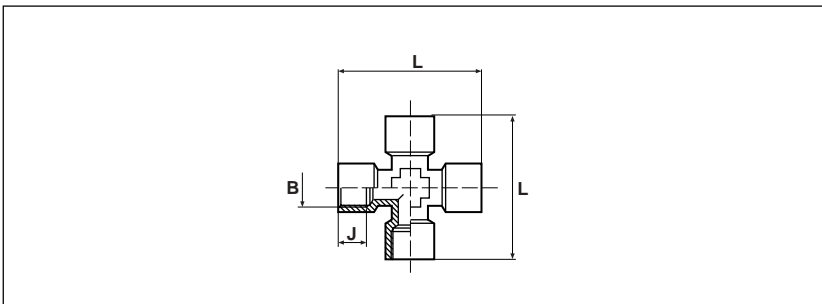
A	B	Part number	J	L	N	P	Weight g.
1/8	1/8	1/8MRO434BL	8.5	37	20	8.0	25
1/4	1/4	1/4MRO434BL	11.0	48	25	11.0	45
3/8	3/8	3/8MRO434BL	12.0	53	27	11.5	65
1/2	1/2	1/2MRO434BL	15.0	62	32	14.0	116
3/4	3/4	3/4MRO434BL	16.5	69	37	14.5	191
1	1	1MRO434BL	19.0	84	45	16.8	285

RRO334 - Branch tee male-male-female - BSPT-BSPT-BSPP



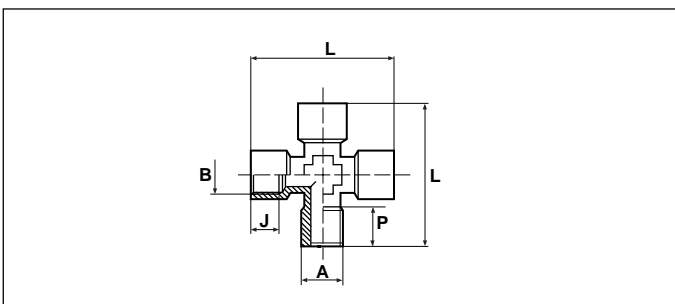
A	B	Part number	J	L	N	P	Weight g.
1/8	1/8	1/8RRO334BL	8.5	35	19.5	8.0	23
1/4	1/4	1/4RRO334BL	11.0	46	24.5	11.0	40
3/8	3/8	3/8RRO334BL	12.0	51	27.0	11.5	59
1/2	1/2	1/2RRO334BL	15.0	59	32.0	14.0	98
3/4	3/4	3/4RRO334BL	16.5	64	36.5	14.5	159
1	1	1RRO334BL	19.0	78	45.0	16.8	245

KMMOO4 - Female pipe cross - BSPP



B	Part number	J	L	Weight g.
1/8	1/8KMMOO4BL	8.5	39	36
1/4	1/4KMMOO4BL	11.0	50	60
3/8	3/8KMMOO4BL	12.0	56	96
1/2	1/2KMMOO4BL	15.0	64	160

KMRO4434 - Cross fem.-fem.-male-fem. - BSPP-BSPP-BSPT-BSPP

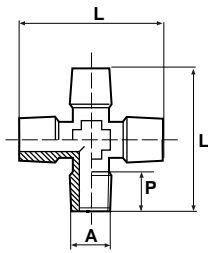


A	B	Part number	J	L	P	Weight g.
1/8	1/8	1/8KMRO4434BL	8.5	39	8.5	33
1/4	1/4	1/4KMRO4434BL	11.0	50	11.0	57
3/8	3/8	3/8KMRO4434BL	12.0	56	11.5	89
1/2	1/2	1/2KMRO4434BL	15.0	64	14.0	144

For product availability please consult our price list 0093-UK.
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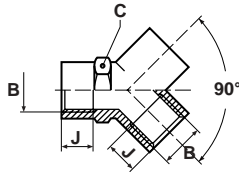
Pneumatic adaptors

KRRS3 - Male pipe cross - BSPT



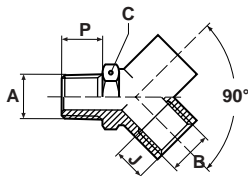
A	Part number	P	L	Weight g.
1/8	1/8KRRS3BL	8.5	35	24
1/4	1/4KRSS3BL	11.0	47	46
3/8	3/8KRSS3BL	11.5	52	70
1/2	1/2KRSS3BL	14.0	58	100

YMMM444 - Y connector female - BSPP



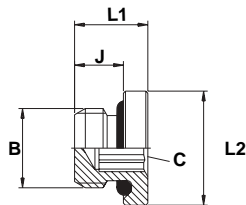
B	Part number	C	J	Weight g.
1/8	1/8YMMM444BL	14	8.0	32
1/4	1/4YMMM444BL	17	11.0	42
3/8	3/8YMMM444BL	22	11.5	92
1/2	1/2YMMM444BL	26	14.0	150

YMMS443 - Y connector female-female-male - BSPP-BSPP-BSPT



A	B	Part number	C	J	P	Weight g.
1/8	1/8	1/8YMMS443BL	14	8.0	9.0	31
1/4	1/4	1/4YMMS443BL	17	11.0	11.0	41
3/8	3/8	3/8YMMS443BL	22	11.5	12.5	87
1/2	1/2	1/2YMMS443BL	26	14.0	16.5	138

P4UN - Hollow hex head plug - O-Ring sealing

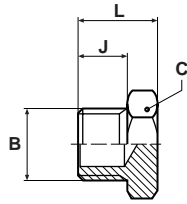


B	Part number	C	J	L1	L2	Weight g.
1/8	1/8P4UNBL	5	6	8.5	14	6
1/4	1/4P4UNBL	6	8	11.0	17	10
3/8	3/8P4UNBL	8	9	12.5	20	18
1/2	1/2P4UNBL	10	10	13.5	25	30

For product availability please consult our price list 0093-UK.
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Pneumatic adaptors

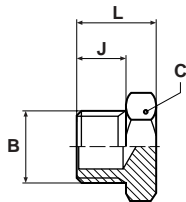
P80N - Hex head plug - Metric



B	Part number	C	J	L	Weight g.
M5	M5P80NBL	8	4.5	8	2

This part requires one RRD or RRP washer to order separately.

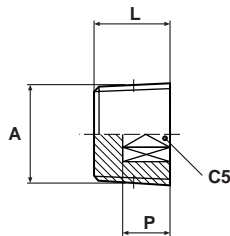
P40N - Hex head plug - BSPP



B	Part number	C	J	L	Weight g.
1/8	1/8P40NBL	14	6.5	10.0	6
1/4	1/4P40NBL	17	9.0	13.0	12
3/8	3/8P40NBL	19	9.5	13.5	15
1/2	1/2P40NBL	24	10.0	14.5	27
3/4	3/4P40NBL	30	11.0	16.0	48
1	1P40NBL	40	12.0	17.0	88

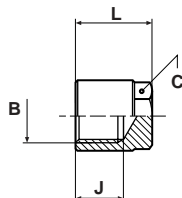
These parts require one RRD or RRP washer to order separately.

HHP3 - Hollow hex head plug - BSPT



A	Part number	C5	L	P	Weight g.
1/8	1/8HHP3BL	5	8	5.0	2
1/4	1/4HHP3BL	6	10	7.0	7
3/8	3/8HHP3BL	8	11	7.5	13
1/2	1/2HHP3BL	10	13	8.0	25

FN4 - Hex head cap - BSPP

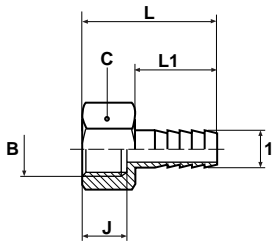


B	Part number	C	J	L	Weight g.
1/8	1/8FN4BL	12	7.5	11	5
1/4	1/4FN4BL	14	11.0	19	15
3/8	3/8FN4BL	17	11.5	20	25
1/2	1/2FN4BL	19	14.0	22	40

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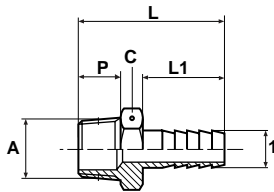
Pneumatic adaptors

FGH - Female hose adaptor - BSPP



1	B	Part number	C	J	L	L1	Weight g.
6	1/8	FGHBL6-1/8BL	14	8.5	30.0	19.5	11
7	1/8	FGHBL7-1/8BL	14	8.5	30.0	19.5	12
7	1/4	FGHBL7-1/4BL	17	11.0	32.5	19.5	19
8	1/4	FGHBL8-1/4BL	17	11.0	32.5	19.5	19
9	1/4	FGHBL9-1/4BL	17	11.0	32.5	19.5	20
9	3/8	FGHBL9-3/8BL	20	11.5	33.5	19.5	25
10	3/8	FGHBL10-3/8BL	20	11.5	33.5	19.5	25
12	3/8	FGHBL12-3/8BL	20	11.5	33.5	19.5	27
12	1/2	FGHBL12-1/2BL	24	14.5	37.5	19.5	40

F3H - Male hose adaptor - BSPT

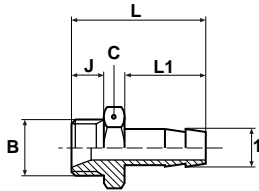


1	A	Part number	C	L	L1	P	Weight g.
6	1/8	F3HBL6-1/8BL	12	32.0	19.5	7.5	9
6	1/4	F3HBL6-1/4BL	14	35.5	19.5	11.0	14
7	1/8	F3HBL7-1/8BL	12	32.0	19.5	7.5	9
7	1/4	F3HBL7-1/4BL	14	35.5	19.5	11.0	14
8	1/8	F3HBL8-1/8BL	12	32.0	19.5	7.5	10
8	1/4	F3HBL8-1/4BL	14	35.5	19.5	11.0	15
9	1/8	F3HBL9-1/8BL	12	32.0	19.5	7.5	12
9	1/4	F3HBL9-1/4BL	14	35.5	19.5	11.0	15
9	3/8	F3HBL9-3/8BL	17	36.0	19.5	11.5	21
9	1/2	F3HBL9-1/2BL	22	39.0	19.5	14.0	32
10	1/8	F3HBL10-1/8BL	12	32.0	19.5	7.5	10
10	1/4	F3HBL10-1/4BL	14	35.5	19.5	11.0	15
10	3/8	F3HBL10-3/8BL	17	36.0	19.5	11.5	22
10	1/2	F3HBL10-1/2BL	22	39.0	19.5	14.0	33
12	1/4	F3HBL12-1/4BL	14	35.5	19.5	11.0	19
12	3/8	F3HBL12-3/8BL	17	36.0	19.5	11.5	21
12	1/2	F3HBL12-1/2BL	22	39.0	19.5	14.0	33
14	3/8	F3HBL14-3/8BL	17	36.0	19.5	11.5	23
14	1/2	F3HBL14-1/2BL	22	39.0	19.5	14.0	36
16	3/8	F3HBL16-3/8BL	17	36.0	19.5	11.5	26
16	1/2	F3HBL16-1/2BL	22	39.0	19.5	14.0	38
16	3/4	F3HBL16-3/4BL	27	43.5	19.5	16.5	62
17	3/8	F3HBL17-3/8BL	18	36.0	19.5	11.5	30
17	1/2	F3HBL17-1/2BL	22	39.0	19.5	14.0	43
18	3/8	F3HBL18-3/8BL	19	36.0	19.5	11.5	31
18	1/2	F3HBL18-1/2BL	22	39.0	19.5	14.0	43
18	3/4	F3HBL18-3/4BL	27	43.5	19.5	16.5	62
20	3/8	F3HBL20-3/8BL	21	36.0	19.5	11.5	38
20	1/2	F3HBL20-1/2BL	22	39.0	19.5	14.0	46

For product availability please consult our price list 0093-UK.
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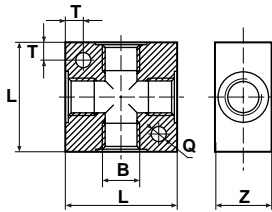
Pneumatic adaptors

F41H - Male hose adaptor - Metric or BSPP



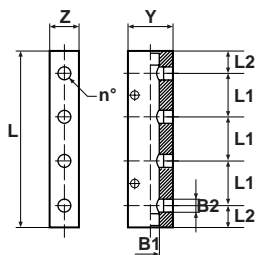
1	B	Part number	C	J	L	L1	Weight g.
4.5	M5	F41HBL4.5-M5BL	8	4	23.0	15	3
7	1/8	F41HBL7-1/8BL	14	6	30.0	20	11
7	1/4	F41HBL7-1/4BL	17	8	33.0	20	19
8	1/8	F41HBL8-1/8BL	14	6	30.0	20	12
9	1/8	F41HBL9-1/8BL	14	6	30.0	20	12
9	1/4	F41HBL9-1/4BL	17	8	33.0	20	19
9	3/8	F41HBL9-3/8BL	19	9	34.0	20	24
12	1/4	F41HBL12-1/4BL	17	8	33.0	20	21
12	3/8	F41HBL12-3/8BL	19	9	34.0	20	25
12	1/2	F41HBL12-1/2BL	24	10	37.5	22	42
17	3/8	F41HBL17-3/8BL	19	9	38.0	24	31
17	1/2	F41HBL17-1/2BL	24	10	39.5	24	46

MANIF - Aluminium manifold - BSPP



B	Part number	L	Q	T	Z	Weight g.
1/8	MANIF1/8KMO4DL	25	4.5	4.3	16	16
1/4	MANIF1/4KMO4DL	40	5.5	6.5	20	63
3/8	MANIF3/8KMO4DL	50	5.5	7.5	25	126
1/2	MANIF1/2KMO4DL	50	5.5	7.5	30	136

MANI1 - Aluminium manifold - BSPP

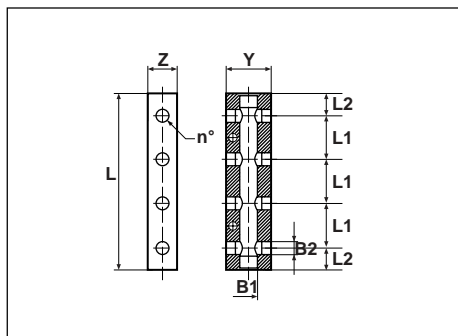


B1	B2	N°	Part number	L	L1	L2	Y	Z	Weight g.
1/8	M5	7	MANI1x1/8xM5x7	95	10.5	16	20	15	68
1/4	1/8	2	MANI1x1/4x1/8x2	60	30.0	15	30	20	78
1/4	1/8	3	MANI1x1/4x1/8x3	90	30.0	15	30	20	163
1/4	1/8	4	MANI1x1/4x1/8x4	120	30.0	15	30	20	214
1/4	1/8	5	MANI1x1/4x1/8x5	150	30.0	15	30	20	265
1/4	1/8	6	MANI1x1/4x1/8x6	180	30.0	15	30	20	316
3/8	1/4	2	MANI1x3/8x1/4x2	72	36.0	18	30	20	80
3/8	1/4	3	MANI1x3/8x1/4x3	108	36.0	18	30	20	193
3/8	1/4	4	MANI1x3/8x1/4x4	144	36.0	18	30	20	255
3/8	1/4	5	MANI1x3/8x1/4x5	180	36.0	18	30	20	180
3/8	1/4	6	MANI1x3/8x1/4x6	216	36.0	18	30	20	377

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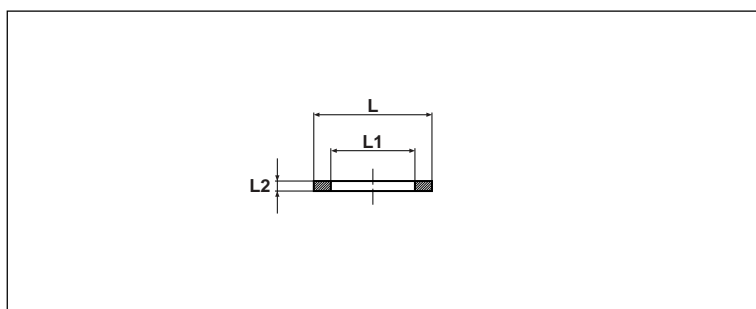
Pneumatic adaptors

MANI2 - Aluminium manifold - BSPP



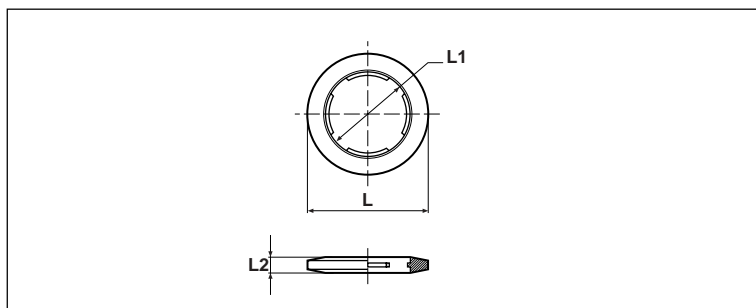
B1	B2	N°	Part number	L	L1	L2	Y	Z	Weight g.
1/4	1/8	2	MANI2x1/4x1/8x2	60	30	15	30	20	76
1/4	1/8	3	MANI2x1/4x1/8x3	90	30	15	30	20	117
1/4	1/8	4	MANI2x1/4x1/8x4	120	30	15	30	20	156
1/4	1/8	5	MANI2x1/4x1/8x5	150	36	18	30	20	204
3/8	1/4	2	MANI2x3/8x1/4x2	72	36	18	40	20	177
3/8	1/4	3	MANI2x3/8x1/4x3	108	36	18	40	20	260
3/8	1/4	4	MANI2x3/8x1/4x4	144	36	18	40	20	342
3/8	1/4	5	MANI2x3/8x1/4x5	180	36	18	40	20	424

RRD - Aluminium washer



Size	Part number	L	L1	L2	Weight g.
M5	M5RRD	8	5.2	1.0	0.1
1/8	1/8RRD	14	10.0	1.5	0.1
1/4	1/4RRD	18	13.5	1.5	0.1
3/8	3/8RRD	21	16.5	1.5	0.1
1/2	1/2RRD	26	21.1	1.5	0.2

RRP - Nylon washer



Size	Part number	L	L1	L2	Weight g.
M5	M5RRP	8	5.1	1.3	0.1
1/8	1/8RRP	14	9.8	1.8	0.1
1/4	1/4RRP	18	13.2	1.8	0.1
3/8	3/8RRP	21	16.7	1.8	0.2
1/2	1/2RRP	26	21.1	1.8	0.3
3/4	3/4RRP	33	28.0	2.5	0.7
1	1RRP	41	34.0	2.5	1.0

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Ball valves

Catalogue 3529-UK



Ball valves

Media Guide

The table below lists general recommendations for the selection of valve materials. For specific cases, and for those not included in the Media Guide, it is advisable to check with your Parker representative. There are many specific environmental factors which may affect corrosion rate, such as temperature, solution, concentration and presence of impurities. Therefore, we recommend that the information be used only as a guide to material selection. If any questions exist regarding the expected performance of a material in a given application, actual tests should be performed to determine the suitability of the materials in question.

Fluid	Brass	Carbon steel	Stainless steel (316)	Buna N (Nitrile)	Neoprene	EPR	Fluoro-carbon	PTFE	Acetal	Nylon (Polyamide)
Acetone	E	E	E	U	U	E	U	E	E	E
Acetylene	G	E	E	G	P	E	E	E	E	
Air	E	E	E	E	E	E	E	E	E	E
Alcohol, ethyl	G	G	G	E	G	E	E	E	E	G
Alcohol, methyl	E	G	E	G	E	E	P	E	E	G
Animal oil	G	G	G	E	G	G	E			G
Asphalt emulsion	E	G	E	U	P	U	E	E	E	G
Asphalt liquid	E	G	E	P	P	U	E		E	G
Beer	G	U	E	G	G	G	E	E	E	U
Benzene	G	G	G	U	U	U	G	E		E
Butane	E	G	E	G	G	U	E	E	E	P
Calcium chloride	G	P	G	E	E	G	E	E	E	U
Carbonated water	G	G	E	E	E	E	E	E	E	E
Caustic soda		G	E	P		G	G	E		
Coffee	E		E	E	E	E	E	G		
Cutting oils	E	G	E	E	G		E	E	E	
Diesel oil fuels	E	E	E	E	P	U	E	E		G
Ethanol	E	U	U	U	E	E	U			G
Ethyl alcohol	G	G	G	E	E		E	E		
Ferrous sulphate	G	U	G	E	E	E	E	E	E	U
Gas, natural	G	G	E	E	E	U	E	E	E	
Gasoline, unleaded	E	E	E	P	U	E	E	E	E	E
Glucose	E	G	E	E	E	E	E	E	E	
Glycerine	G	P	E	P	U	E	G	E	P	E
Kerosene	E	G	E	E	P	U	E	E	E	G
Methane	E	G	E	E	G		E	E	E	
Methanol	G		E	G	G	U	G	E		G
Methyl alcohol	G	G	G	E	G		P	E		G
Milk & milk products	G	U	E	E	E	E	E	E	E	G
Mineral oils	G	G	E	E	G	U	E	E	E	G
Naphtha	G	G	G	E	P	U	E	E	E	G
Natural gas, sour	G	G	E	E	E	U	E	E	E	
Nitric acid 100%	U	U	E	U	U	U	G	E	U	U
Nitric acid 30%	U	U	E	P	P	G	E	E	U	U
Nitrogen	E	E	E	E	E	G	E	E	E	G
Paints & solvents	E	E	E	U	U	U	G	E		G
Paper pulp	G		E	G	G	G	G	E		
Paraffin	E	G	E	E	P	U	E	E	E	
Petrolatum (Petroleum Jelly)	G	P	G	E	G		E	E	E	
Propane gas	E	G	G	E	G	U	E	E	E	
Sea water	P	U	G	E	E	E	E	E	E	
Sodium chloride	G	P	G	E	E	G	E	E	E	E
Steam (100°C)	E	E	E	U	U	G	P	E	U	
Sulphur	U	P	G	U	P	G	G	E	E	
Trichlorethylene	G	G	G	U	U	U	G	E	E	U
Water, distilled	E	U	E	P	G	G	E	E	E	E
Water, fresh	E	P	E	P	G	G	E	E	E	E

E = Excellent

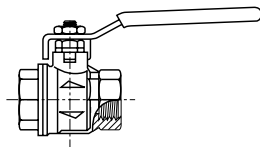
G = Good

P = Poor

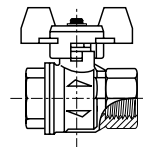
U = Unsatisfactory

Index

BVGC series -
BSPP short
threads - General
purpose

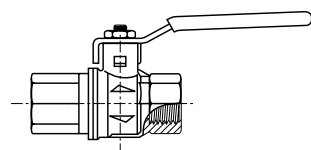


**female / female valve
with lever handle
BSPP
BVGC - p. M 5**

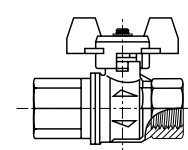


**female / female valve
with compact handle
BSPP
BVGTC - p. M 5**

BVGL series -
BSPP long
threads - General
purpose

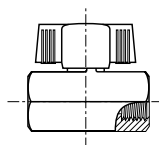


**female / female valve
with lever handle
BSPP
BVGL - p. M 7**



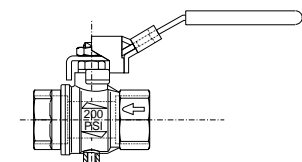
**female / female valve
with compact handle
BSPP
BVGTL - p. M 7**

MBVG series -
BSPP short
threads - Compact



**female / female valve
BSPP
MBVG - p. M 9**

BVG4PLOCK
series -
BSPP-long
threads -
lockable vented
valve



**female / female valve
BSPP
BVG4PLOCK - p. M 11**

M

Ball valves

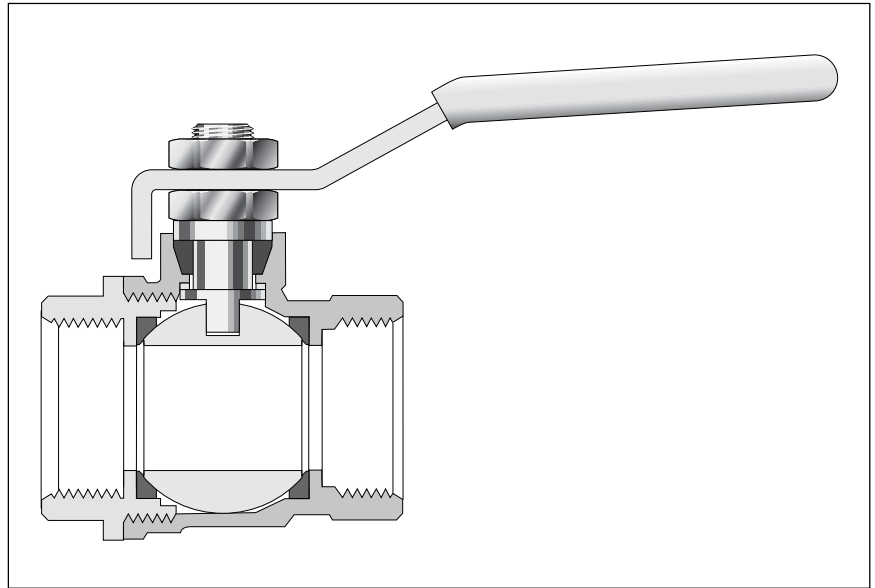
BVGC series

Principle

Parker BVGC series economy ball valves are designed for use in a wide variety of fluid applications. Available with BSPP female/female* short threads to ISO-228, they are full flow valves giving minimum pressure drop.

The BVGC series has a double PTFE seal on the ball enabling the valve to be used with flow in either direction.

All seals are treated with a silicone free lubricant enabling the valves to be used in water-based paint spray applications.-BVGC series valves have an adjustable PTFE packing gland for easy maintenance and longer service



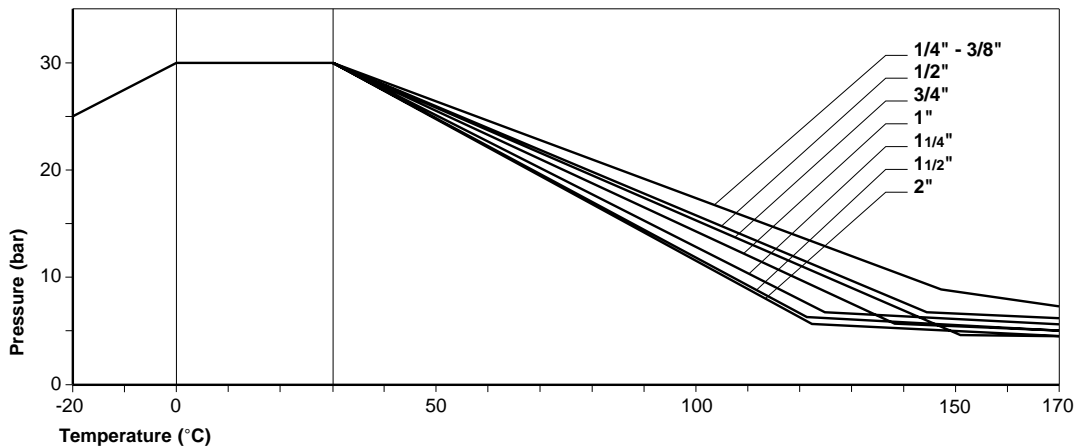
For operator safety the BVGC series valves are fitted with anti-extrusion stems to prevent blow out and all valves are 100% pressure tested to ensure zero leakage.

* For other thread configurations please consult your Parker sales engineer.

Technical features

Body	Lever handle	Compact handle	Anti extrusion stem	Stem packing gland	Ball	Anti friction ring	Forcing nut	Threads	Pressure
Nickel plated brass to DIN17660 and UNI5705 spec.	Carbon steel with yellow PVC coating	Aluminium with yellow epoxy coating	Nickel plated brass	PTFE	Brass chrome plated	PTFE	Nickel plated brass	1/4" - 2" BSPP to ISO228/ DIN259	See chart below

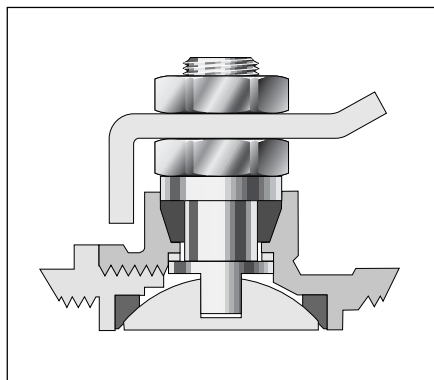
Operating pressures and temperatures



N.B.

This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

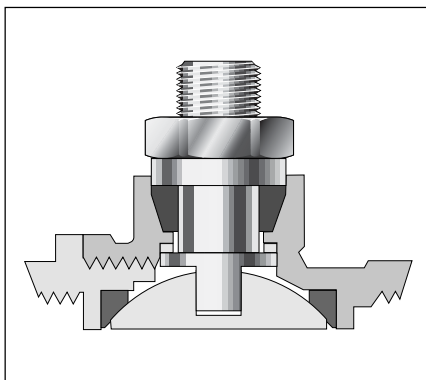
Advantages



Adjustable packing

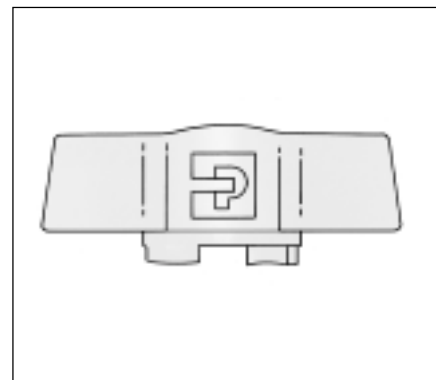
The PTFE packing gland and adjustable washer are designed to give longer service life and lower operating torques.

See instruction 3529-F/GB/D contained in each box.



Anti extrusion stem

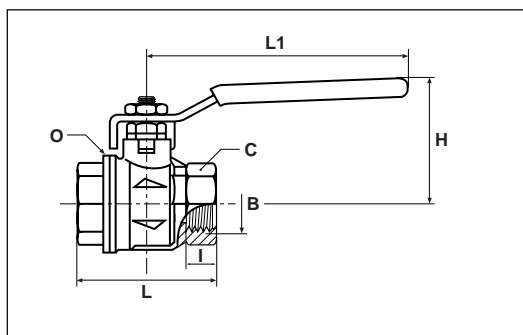
The BVGC series ball valves are fitted with an anti-extrusion stem to prevent blow out in the case of pressure peaks.



Compact handle

For applications where space is at a premium, the BVGC series valve is available with a compact handle for sizes up to 1".

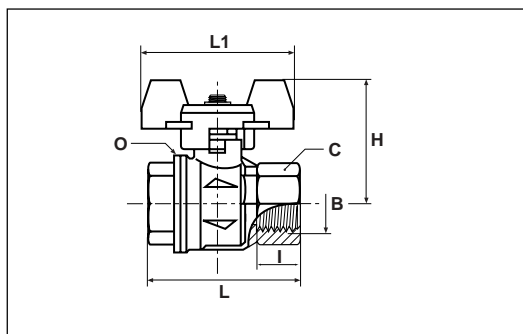
BVGC - BSPP female / female valve with lever handle



DN mm	B	Part number	C	H	L	L1	O	I	Weight g.
8	1/4	BVG4-1/4C	20	39.5	39	82	25.0	9	130
10	3/8	BVG4-3/8C	20	39.5	39	82	25.0	9	120
15	1/2	BVG4-1/2C	25	44.0	50	100	32.5	11	200
20	3/4	BVG4-3/4C	31	50.0	54	120	39.0	12	312
25	1	BVG4-1C	38	54.0	67	120	47.5	14	440
32	1.1/4	BVG4-1.1/4C	48	76.5	77	158	59.0	15	730
40	1.1/2	BVG4-1.1/2C	54	82.5	90	158	71.5	17	972
50	2	BVG4-2C	66	89.5	106	158	86.0	19	1500

This series is also available with red handle.-To order, add R to the part number, eg. **BVG4-1/4CR**.

BVGT4 - BSPP female / female valve with compact handle



DN mm	B	Part number	C	H	L	L1	O	I	Weight g.
8	1/4	BVGT4-1/4C	20	40	39	50	25.0	9	130
10	3/8	BVGT4-3/8C	20	40	39	50	25.0	9	120
15	1/2	BVGT4-1/2C	25	44	50	50	32.5	11	180
20	3/4	BVGT4-3/4C	31	49	54	60	39.0	12	265
25	1	BVGT4-1C	38	53	67	60	47.5	14	390

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Ball valves

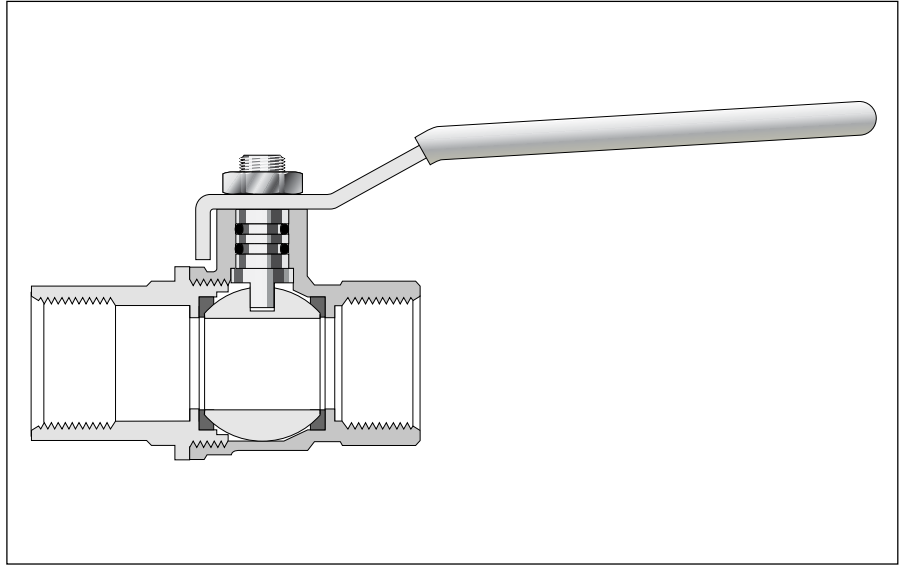
BVGL series

Principle

Parker BVGL series valves are designed for use in fluid and gas applications and are DVGW approved. The valve dimensions are in accordance with DIN3357 for interchangeability and are available with BSPP female/female* long threads to DIN 2999/ ISO 228.

These full flow ball valves have a chrome plated ball with a double PTFE seal system enabling the valve to be used with flow in either direction.

All seals are treated with a silicone free lubricant enabling the valves to be used in water based paint spray applications.



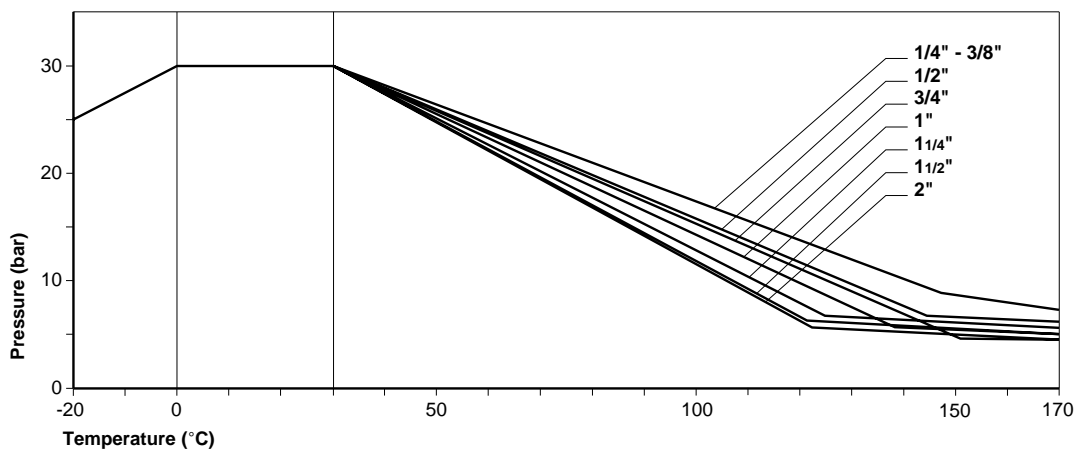
BVGL series valves are fitted with an anti-extrusion stem with two Fluorocarbon seals for maximum safety and performance. After assembly all valves are 100% pressure tested to ensure zero leakage.

* For other thread configurations please consult us.

Technical features

Body	Lever handle	Compact handle	Anti extrusion stem	Stem seal	Ball	Anti friction ring	Forcing nut	Valve dimensions	Pressure
Brass nickel plated to DIN17660 and UNI5705 spec.	Carbon steel with yellow PVC coating	Aluminium with yellow epoxy coating	Brass nickel plated	Two Fluorocarbon O-rings	Brass chrome plated	PTFE	Brass nickel plated	In accordance with DIN3357	See chart below

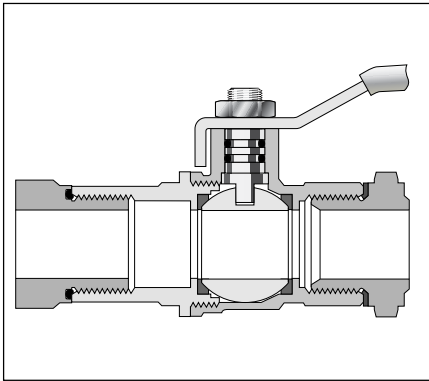
Operating pressures and temperatures



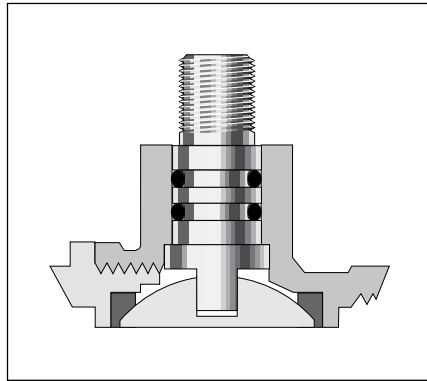
N.B.

This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

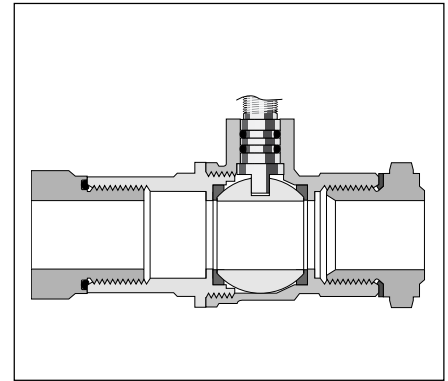
Advantages



DIN 2999 / ISO 228 female threads
BVGL series valves are manufactured with long female threads in accordance to DIN 2999 / ISO 228. This enables the valves to be used with Prestolok, Metrulok and brass adaptors but also Parker's range of steel hydraulic fittings and EO-fittings form "A" or "C" to DIN 3852.

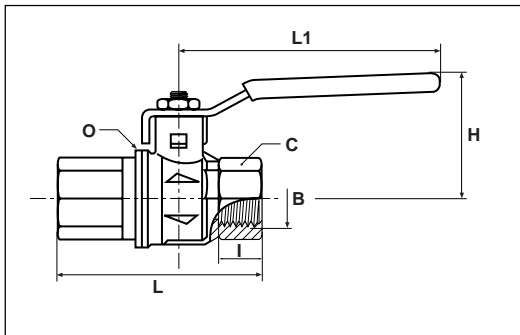


Anti extrusion stem
The BVGL series ball valves are fitted with an anti extrusion stem to prevent blow out in the case of pressure peaks. The stem is sealed with two Fluorocarbon O-rings for maximum safety and performance.



Full flow
All BVGL series valves are full-flow. This limits the turbulence created by the passage of fluid across the valve, minimizing pressure drop.

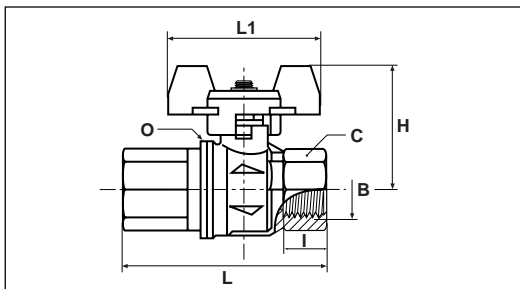
BVGL- BSPP female / female valve with lever handle



DN mm	B	Part number	C	H	L	L1	O	I	Weight g.
8	1/4	BVG4-1/4L	20	38	50	82	25.0	12.0	150
10	3/8	BVG4-3/8L	20	38	60	82	25.0	12.0	150
15	1/2	BVG4-1/2L	25	43	75	100	32.5	15.5	255
20	3/4	BVG4-3/4L	32	50	80	120	39.0	17.0	390
25	1	BVG4-1L	41	54	90	120	47.5	21.0	590
32	1.1/4	BVG4-1.1/4L	50	73	110	158	59.0	23.0	980
40	1.1/2	BVG4-1.1/2L	55	79	120	158	71.5	23.0	1205
50	2	BVG4-2L	70	86	140	158	86.0	26.5	1960

This series is also available with red handle.-To order, add R to the part number, eg. **BVG4-1/4LR**.

BVGTL - BSPP female / female valve with compact handle



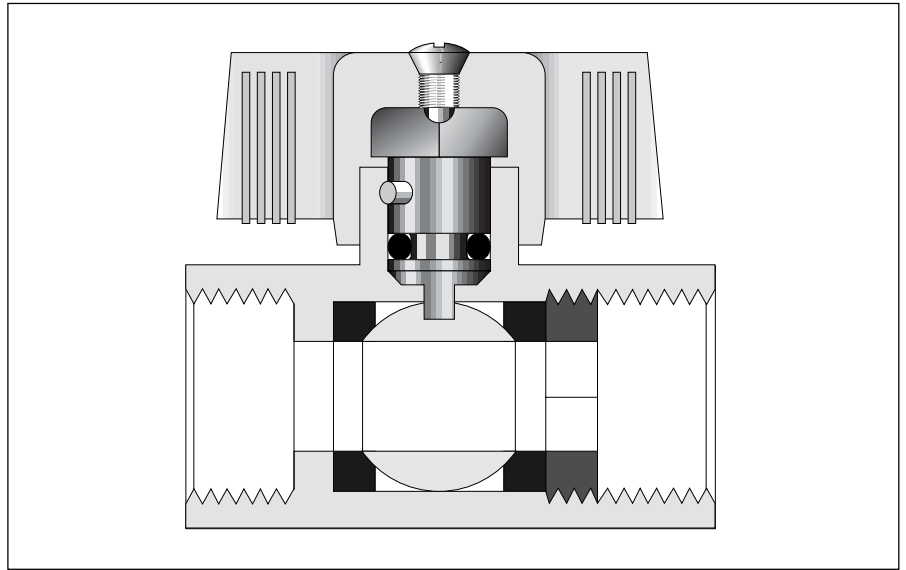
DN mm	B	Part number	C	H	L	L1	O	I	Weight g.
8	1/4	BVGT4-1/4L	20	39	50	50	25.0	12.0	150
10	3/8	BVGT4-3/8L	20	39	60	50	25.0	12.0	150
15	1/2	BVGT4-1/2L	25	43	75	50	32.5	15.5	230
20	3/4	BVGT4-3/4L	32	47	80	60	39.0	17.0	350
25	1	BVGT4-1L	41	51	90	60	47.5	21.0	550

Ball valves

MBVG series

Principle

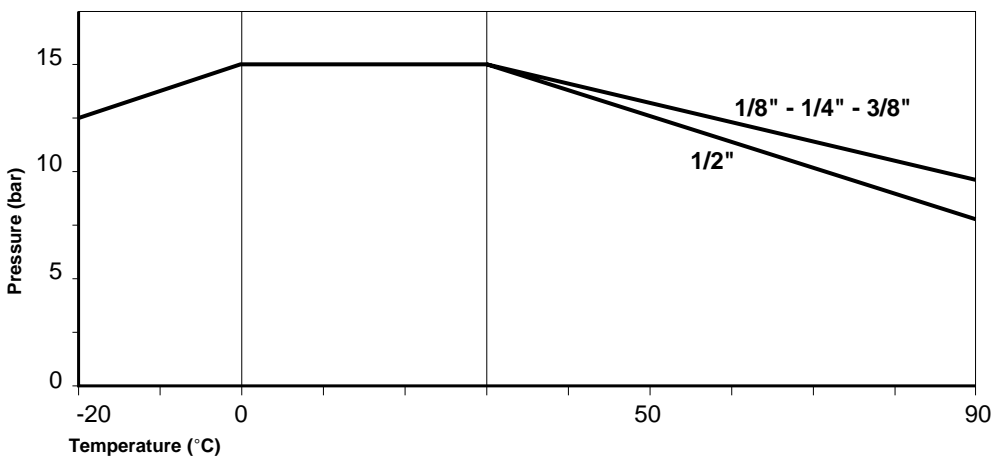
The MBVG series ball valves with their compact design offer the solution to applications where space is an important factor. The body is of a particularly robust design. The integrity of the sealing on the ball is obtained by the use of PTFE seats. The valves are available with BSPP female threads ISO-228/1 (DIN 299) in : 1/4" 3/8" and 1/2" .



Technical features

Body	Handle retention screw	Handle	Stem	Stem seal	Ball	Anti-extrusion guide pin	Nut	Seat seals	Pressure
Brass chromium plated	Brass chromium plated	Polyamide	Brass	Fluorocarbon	Brass	Stainless chromium plated	Brass steel	PTFE	See chart below

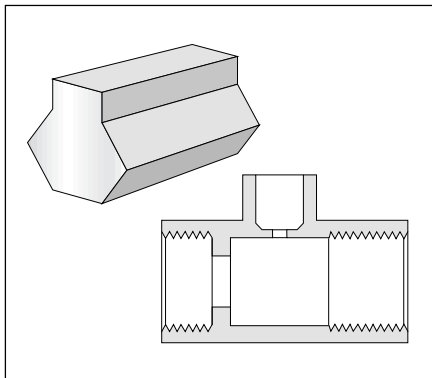
Operating pressures and temperatures



N.B.

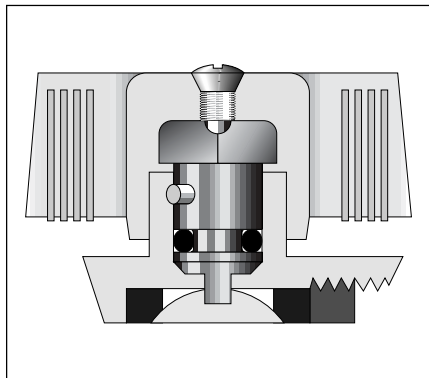
This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

Advantages



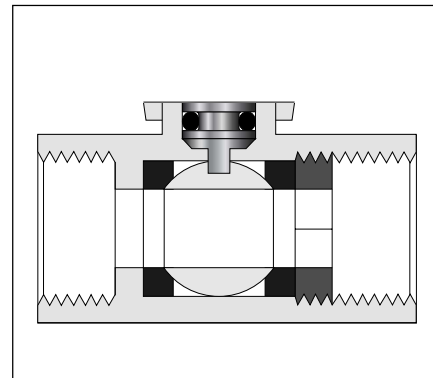
Design of the body

The valve is manufactured from a solid section which incorporates the stem housing in the body. This design allows excellent guidance of the stem, which increases its lifespan.



Stem tightness

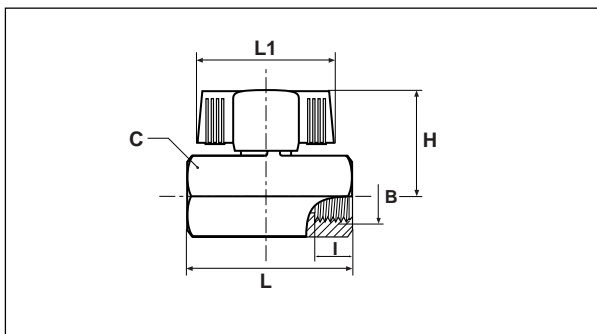
A Fluorocarbon O-ring assembled under compression automatically compensates for minute friction wear. Thus a high standard of seal is



Tightness of the seals

The perfect tightness of the seals on the casing is obtained by the preset force of the nut, adjusted during assembly.

MBVG - BSPP female / female valve



DN mm	B	Part number	C	H	L	L1	I	Weight g.
8	1/4	MBVG4-1/4	21	31.5	41.5	39	11	115
8	3/8	MBVG4-3/8	21	31.5	41.5	39	11	102
10	1/2	MBVG4-1/2	25	33.5	48.0	39	13	150

Availability of the items : please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Ball valves

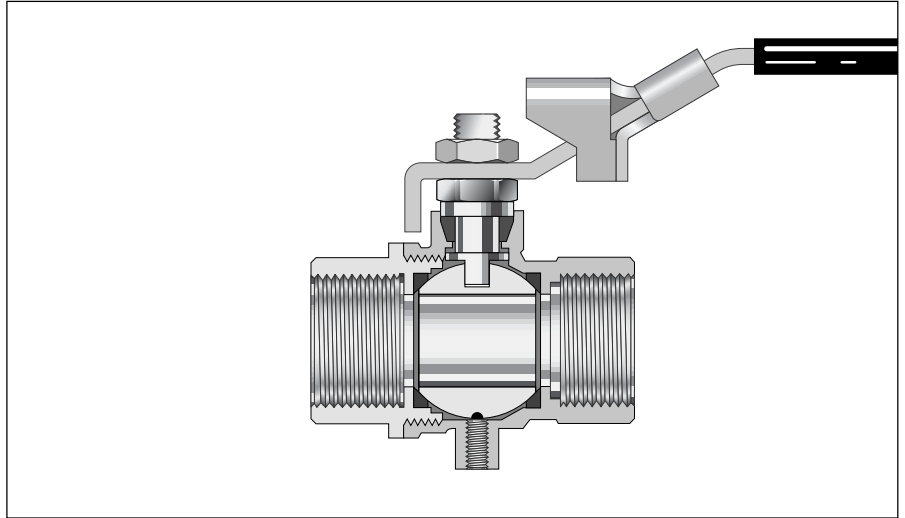
BVGPLOCK series

Principle

Parker BVGPLOCK series of ball valves has been developed to meet the requirements of European Directive DI 89/392/CEE relating to the isolation of power supply and to meet the health and safety requirements for machines and materials in paragraphs L233-5 of the Code du Travail.

The BVGPLOCK series of ball valves incorporate two specific safety features :

- An M5 threaded venting port enabling downstream pressure to be vented when the valve is closed.



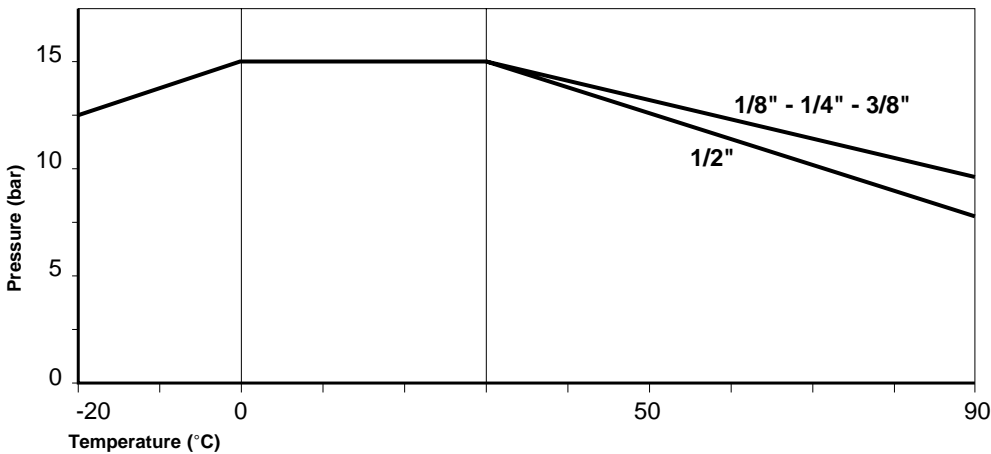
mechanism enabling the valve to be padlocked in the open position, thus preventing tampering or accidental closure of the valve during operation.

All seals are treated with a silicone free lubricant enabling them to be used in water based paint spray applications.

Technical features

Body	Lever handle	Anti extrusion stem	Stem packing gland	Ball	Anti friction ring	Forcing nut	Valve dimensions	Pressure
Brass nickel plated to DIN17660 and UNI5705 spec.	Carbon steel with yellow PVC coating	Brass nickel plated	PTFE	Brass chrome plated	PTFE	Brass nickel plated	In accordance with DIN3357	See chart below

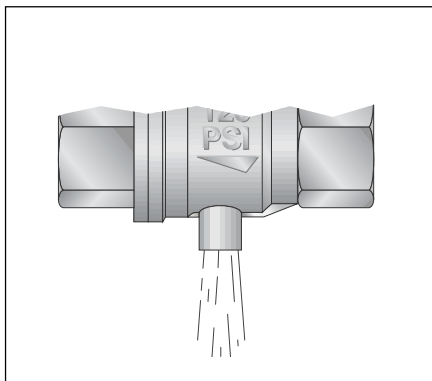
Operating pressures and temperatures



N.B.

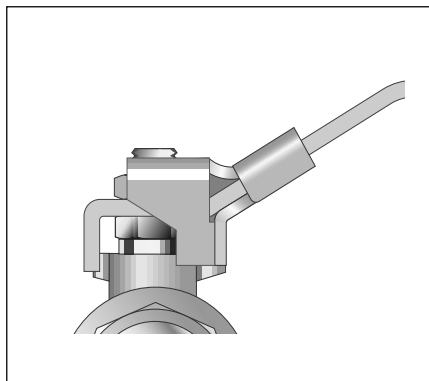
This chart gives general information. Only testing under operating conditions will finally determine which valve should be selected.

Ball valves



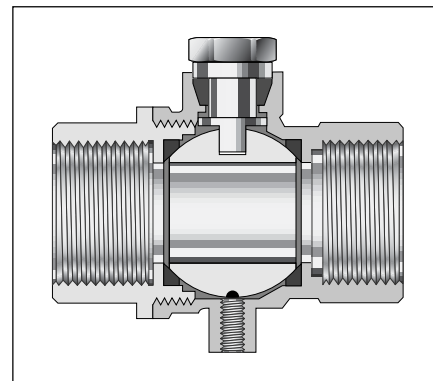
Threaded exhaust

BVGPLOCK series ball valves are manufactured with an M5 threaded exhaust port, this safety feature enables the downstream air pressure to be vented when the valve is closed.



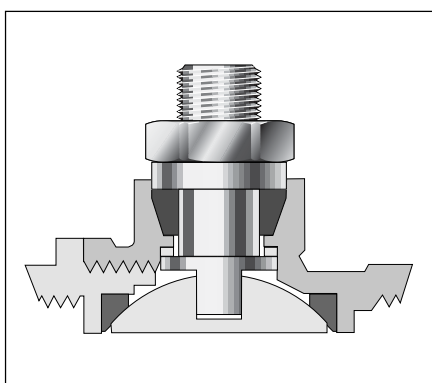
Lockable handle

The BVGPLOCK series ball valves are fitted with a handle that can be locked in the closed position with a padlock. This safety feature ensures the valve cannot be accidentally opened, and only authorised personnel can operate the valve.



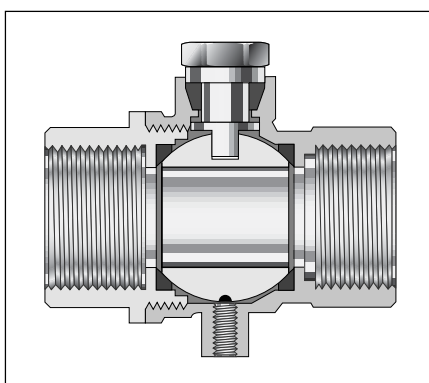
DIN 2999 / ISO 228 female threads

BVGPLOCK series valves are manufactured with female threads in accordance to DIN 2999/ISO228. This enables the valves to be used with Prestolok, Metrulok and brass adaptors but also Parker's range of steel hydraulic fittings and EO-fittings form "A" or "C" to DIN 3852.



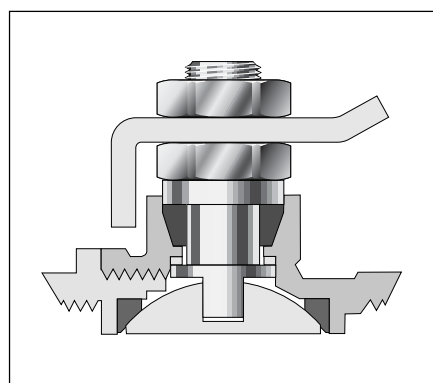
Anti extrusion stem

The BVGPLOCK series ball valves are fitted with an anti-extrusion stem to prevent blow out in the case of pressure peaks.



Full flow

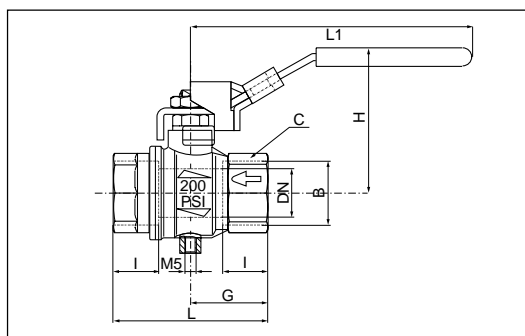
All BVGPLOCK series valves are full-flow. This limits the turbulence created by the passage of fluid across the valve, minimizing pressure drop.



Adjustable packing

The PTFE packing gland and adjustable washer are designed to give longer service life and lower operating torques.

BVG4PLOCK - BSPP-female / female lockable vented valve with lever handle



DN	B	Part number	C	G	H	I	L	L1	Weight g.
8	1/4	BVG4P-1/4LOCK	20	22.5	47.5	12.0	45	96	154
10	3/8	BVG4P-3/8LOCK	20	22.5	47.5	12.0	45	96	171
16	1/2	BVG4P-1/2LOCK	25	29.5	52.0	15.5	59	96	238
20	3/4	BVG4P-3/4LOCK	31	32.0	59.5	17.0	64	117	370
25	1	BVG4P-1LOCK	40	40.5	63.5	21.0	81	117	580

Quick Coupling Products

Catalogue 3806-UK



Pneumatic couplings

Index

PB series



female body -
male thread BSPT
PB52 F3C - p. N 5
PB53 F3C - p. N 5
PB54 F3C - p. N 5



female body -
female thread BSPP
PB52 G4Z - p. N 5
PB53 G4Z - p. N 5
PB54 G4Z - p. N 5



female body -
hose barb
PB52 EB - p. N 5



male tip -
male thread BSPT
PB12 F3C - p. N 6
PB13 F3C - p. N 6
PB14 F3C - p. N 6



male tip -
female thread BSPP
PB12 G4Z - p. N 6
PB13 G4Z - p. N 6
PB14 G4Z - p. N 6



male tip -
hose barb
PB12 EB - p. N 6
PB13 EB - p. N 6
PB14 EB - p. N 6



male tip -
Push-Lok
PB12 PL - p. N 6
PB13 PL - p. N 6
PB14 PL - p. N 6

PBF series



female body -
male thread BSPT
PBF52 F3C - p. N 8



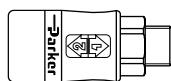
female body -
female thread BSPP
PBF52 G4Z - p. N 8



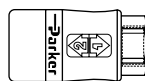
female body -
hose barb
PBF52 EB - p. N 8

PBF series female bodies are recommended for use with PB series male tips (page N5)

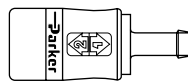
PBS series



female body
male thread BSPP
PBS - 251 - MB - p. N 10
PBS - 371 - MB - p. N 10
PBS - 501 - MB - p. N 10

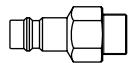


female body
female thread BSPP
PBS - 251 - FB - p. N 10
PBS - 371 - FB - p. N 10
PBS - 501 - FB - p. N 10

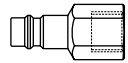


female body
hose barb
PBS - 251 - HB - p. N 10
PBS - 371 - HB - p. N 10
PBS - 501 - HB - p. N 10

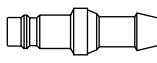
For sizes 1/4" & 3/8", male tips to be used with PBS female bodies are those of the PB Series (page N5).
For size 1/2", please use the male tips PBS-502 with a specific treatment especially designed to withstand high flows.



male tip
male thread BSPT
PBS - 502 - MBT - p. N 13



male tip
female thread BSPP
PBS - 502 - FB - p. N 13



male tip
hose barb
PBS - 502 - HB - p. N 13

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female body -
male thread BSPP
PE52 F3C - p. N 13



female body -
female thread BSPP
PE52 G4Z - p. N 13



female body -
hose barb
PE52 EB - p. N 13



male tip -
male thread BSPP
PE12 F3C - p. N 14



male tip -
female thread BSPP
PE12 G4Z - p. N 14



male tip -
hose barb
PE12 EB - p. N 14

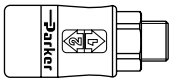


male tip -
Push-Lok
PE12 PL - p. N 14

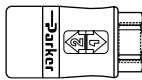
Pneumatic couplings

Index

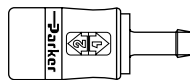
PES series



**female body
male thread BSPP
PES - 251 - MB** - p. N 19



**female body
female thread BSPP
PES - 251 - FB** - p. N 19



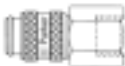
**female body
hose barb
PES - 251 - HB** - p. N 19

Male tips to be used with PES female bodies are those of the PEF Series (page N14).

PEF series



**female body -
male thread BSPT
PEF52 F3C** - p. N 16
PEF53 F3C - p. N 16



**female body -
female thread BSPP
PEF52 G4Z** - p. N 16
PEF53 G4Z - p. N 16



**female body -
hose barb
PEF52 EB** - p. N 16
PEF53 EB - p. N 16



**male tip -
male thread BSPT
PEF12 F3C** - p. N 17
PEF13 F3C - p. N 17



**male tip -
female thread BSPP
PEF12 G4Z** - p. N 17
PEF13 G4Z - p. N 17



**male tip -
hose barb
PEF12 EB** - p. N 17
PEF13 EB - p. N 17

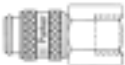


**male tip -
Push-Lok
PEF12 PL** - p. N 17
PEF13 PL - p. N 17

PCF series



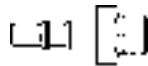
**female body -
male thread BSPT
PCF52 F3C** - p. N 21



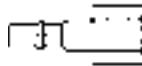
**female body -
female thread BSPP
PCF52 G4Z** - p. N 21



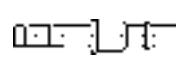
**female body -
hose barb
PCF52 EB** - p. N 21



**male tip -
male thread BSPT
PCF12 F3C** - p. N 22



**male tip -
female thread BSPP
PCF12 G4Z** - p. N 22



**male tip -
hose barb
PCF12 EB** - p. N 22

BG series



**NPTF Thread
BG 44** - p. N 24



**BSPP Thread
BG 34** - p. N 24

N

PB-Series

Principle

The PB series of pneumatic quick couplers has been designed to meet the specifications and the profile defined in ISO standard 6150-B.

- Size : 1/4", 3/8", 1/2"
- Valving on female half only : poppet.
- Meets the requirements of ISO 6150-B, US MIL-C4109 and AFNOR E49-053.
- End configuration : BSP male and female, barb connector, Parker Push-Lok.
- One-hand operated (Push-to-connect).



Technical features

Material							Male tip	Body size	Flow rates l/min.	Temperature range	Max. operating pressure
End adaptor	Female body				Seals						
Brass	Brass (except on 3/8" steel yellow chromate plated)	Brass	Brass	AISI 301 Stainless steel	AISI 420 Stainless steel hardened 54HRC	NBR (Nitrile)	Hardened steel nickel plated	1/4" 3/8" 1/2"	550 900 2 350	From -20°C to +100°C	16 bar

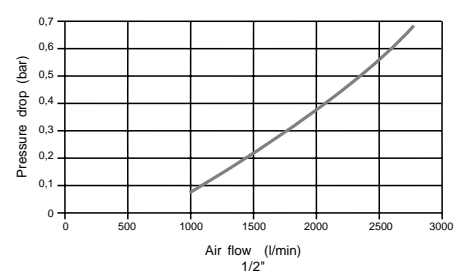
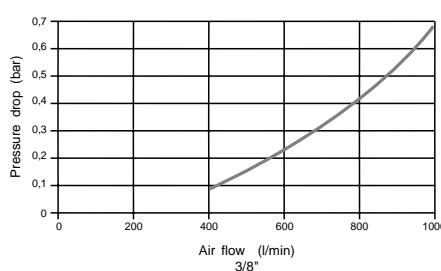
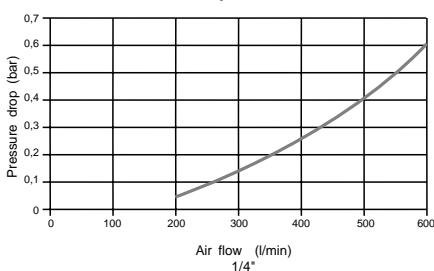
Applications

Meeting an international standard, the 1/4" size PB series pneumatic couplers are extensively used in the connection of pneumatic tools currently utilised in industry and garages.

Larger sizes (3/8" and 1/2") are used in pneumatic applications when larger flow rates are required, e.g. : grinding machines, pneumatic wrenches, pneumatic equipment, etc.

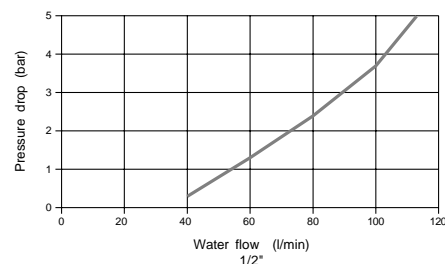
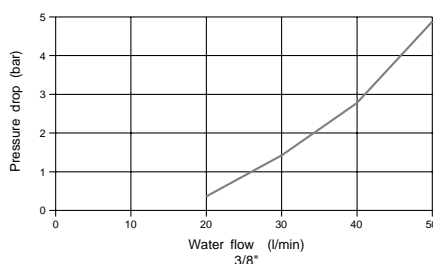
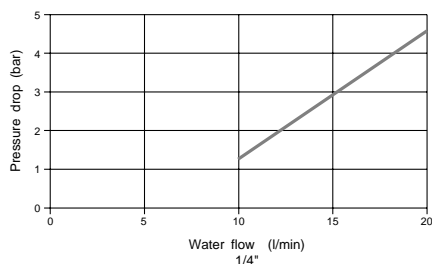
Pressure drop

Test with air, inlet pressure 6 bar

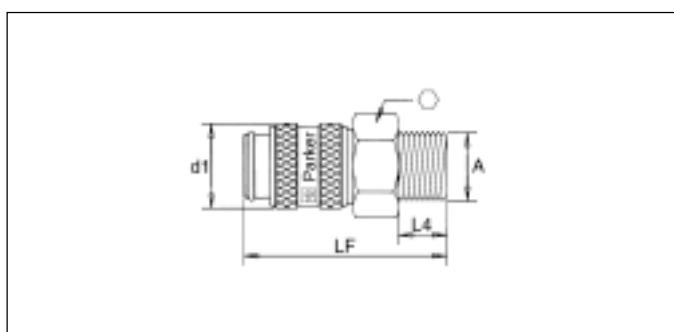


Pressure drop

Tests with water

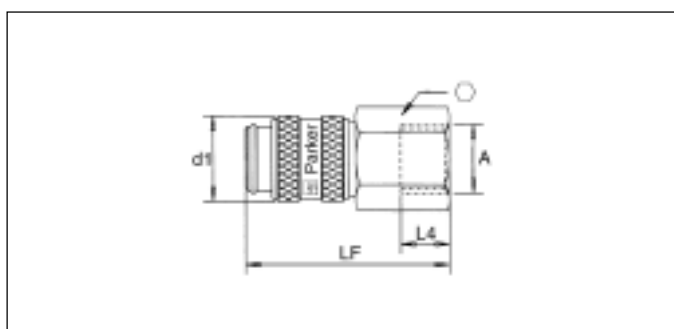


PB52/53/54 F3C - Female body - male thread BSPT



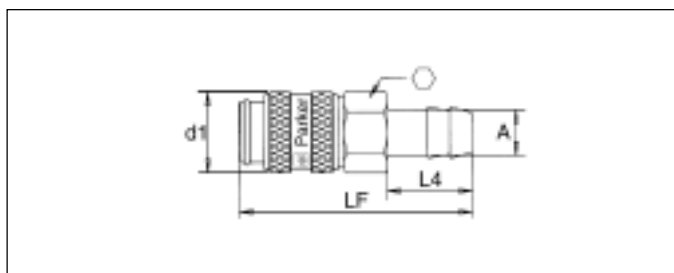
Body size	A	Part number	d1	Hexagon	LF	L4
1/4	1/4	PB52 F3C2	25	22	43	9
1/4	3/8	PB52 F3C3	25	22	43	9
3/8	1/4	PB53 F3C2	30	22	49	9
3/8	3/8	PB53 F3C3	30	22	49	9
3/8	1/2	PB53 F3C4	30	22	52	12
1/2	3/8	PB54 F3C3	35	30	74	12
1/2	1/2	PB54 F3C4	35	30	79	17
1/2	3/4	PB54 F3C6	35	30	81	19

PB52/53/54 G4Z - Female body - female thread BSPP



Body size	A	Part number	d1	Hexagon	LF	L4
1/4	1/4	PB52 G4Z2	25	22	43	11.0
1/4	3/8	PB52 G4Z3	25	22	43	9.0
3/8	1/4	PB53 G4Z2	30	22	49	9.0
3/8	3/8	PB53 G4Z3	30	22	49	9.0
3/8	1/2	PB53 G4Z4	30	24	52	12.0
1/2	3/8	PB54 G4Z3	35	30	76	14.0
1/2	1/2	PB54 G4Z4	35	30	83	23.0
1/2	3/4	PB54 G4Z6	35	32	84	24.0

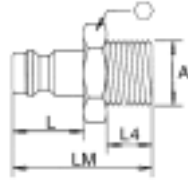
PB52 EB - Female body - hose barb



Body size	A mm	Part number	d1	Hexagon	LF	L4
1/4	6	PB52 EB6	25	25	60	25
1/4	8	PB52 EB8	25	25	60	25
1/4	10	PB52 EB10	25	25	60	25

PB series

PB12/13/14 F3C - Male tip - male thread BSPT



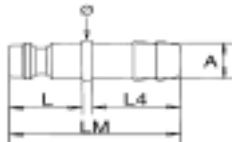
Body size	A	Part number	Hexagon	L	LM	L4
1/4	1/8	PB12 F3C1	13	23.6	39	9
1/4	1/4	PB12 F3C2	14	23.6	42	12
1/4	3/8	PB12 F3C3	17	23.6	42	12
3/8	1/4	PB13 F3C2	17	26.2	42	9
3/8	3/8	PB13 F3C3	19	26.2	42	9
3/8	1/2	PB13 F3C4	24	26.2	46	12
1/2	1/2	PB14 F3C4	22	34.9	59	17
1/2	3/4	PB14 F3C6	27	34.9	62	19

PB12/13/14 G4Z - Male tip - female thread BSPP



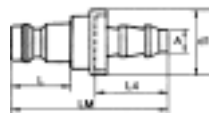
Body size	A	Part number	Hexagon	L	LM	L4
1/4	1/4	PB12 G4Z2	17	23.6	36	9.0
1/4	3/8	PB12 G4Z3	19	23.6	36	9.0
3/8	3/8	PB13 G4Z3	19	26.2	42	10.0
3/8	1/2	PB13 G4Z4	24	26.2	43	12.0
1/2	1/2	PB14 G4Z4	24	34.9	61	23.0
1/2	3/4	PB14 G4Z6	32	34.9	62	24.0

PB12/13/14 EB - Male tip - hose barb



Body size	A mm	Part number	d1	L	LM	L4
1/4	6	PB12 EB6	14	23.6	51	25
1/4	8	PB12 EB8	14	23.6	51	25
1/4	10	PB12 EB10	14	23.6	51	25
3/8	6	PB13 EB6	16	26.2	55	25
3/8	8	PB13 EB8	16	26.2	55	25
3/8	10	PB13 EB10	16	26.2	55	25
1/2	10	PB14 EB10	17	34.9	62	25
1/2	13	PB14 EB13	17	34.9	62	25
1/2	19	PB14 EB19	21	34.9	72	35

PB12/13/14 PL - Male tip - Push-Lok



Body size	A	Part number	d1	L	LM	L4
1/4	1/4	PB12 PL4	18.0	23.6	45.5	20.4
1/4	3/8	PB12 PL6	22.0	23.6	49.3	24.2
3/8	1/4	PB13 PL4	18.0	26.2	48.4	20.4
3/8	3/8	PB13 PL6	22.0	26.2	52.2	24.2
1/2	1/2	PB14 PL8	24.5	34.9	64.9	27.9
1/2	3/4	PB14 PL12	32.0	34.9	75.1	38.1

For more information, please consult our catalogue 3800-GB-F.

Principle

PBF series pneumatic quick couplers are only available in the 1/4" size and conform to specifications and profile of ISO standard 6150-B, while having improved flow capability.

- Valving on female half only : poppet.
- Meets the requirements of ISO 6150-B, US MIL-C4109 and AFNOR E49-053.
- End configuration : BSP male and female, barb connector.
- One-hand operated (Push-to-connect).



Technical features

Material							Male tip	Body size	Flow rates l/min.	Temperature range	Max. operating pressure
Female body											
End adaptor	Body	Sleeve	Poppet	Spring and snap ring	Balls	Seals					
Brass nickel plated	Brass nickel plated	Steel hardened and nickel plated	Brass	AISI 301 Stainless steel	AISI 420 Stainless steel	NBR (Nitrile)	Hardened steel nickel plated	1/4"	900	From -20°C to +100°C	16 bar

Applications

The PBF series comes from the same family as the PB series, but has even better flow characteristics, enabling these couplers to be used with any type of pneumatic tool.

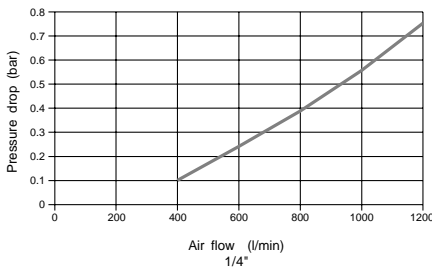
This series can be used in place of larger size couplers, because the pressure drop has been greatly improved.

For more information, please consult our catalogue 3800-GB-F.

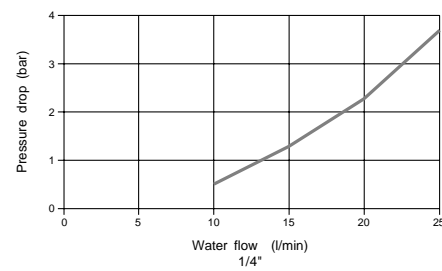
PBF series

Pressure drop

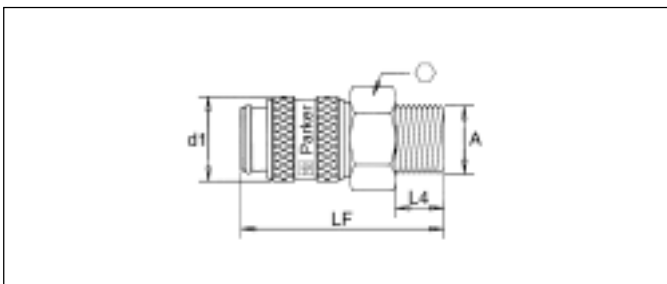
Tests with air, inlet pressure 6 bar.



Tests with water

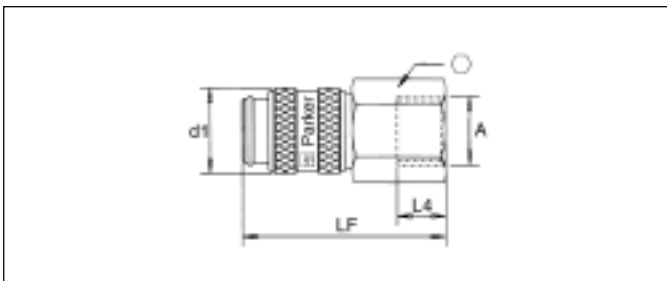


PBF52F3C - Female body - male thread BSPT



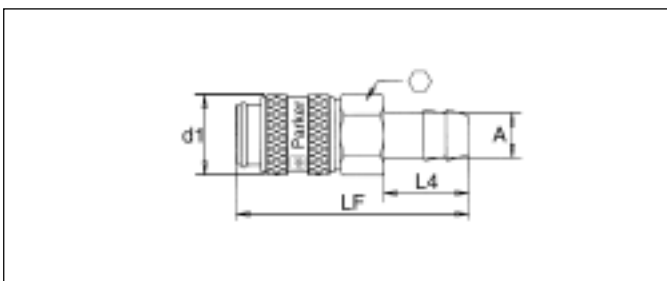
Body size	A	Part number	d1	Hexagon	LF	L4
1/4	1/4	PBF52 F3C2	23	19	59	12
1/4	3/8	PBF52 F3C3	23	19	59	12

PBF52G4Z - Female body - female thread BSPP



Body size	A	Part number	d1	Hexagon	LF	L4
1/4	1/4	PBF52 G4Z2	23	19	55	10
1/4	3/8	PBF52 G4Z3	23	19	54	9

PBF52 EB - Female body - hose barb



Body size	A mm	Part number	d1	Hexagon	LF	L4
1/4	6	PBF52 EB6	23	19	73	25
1/4	8	PBF52 EB8	23	19	73	25
1/4	10	PBF52 EB10	23	19	73	25

Important : PBF series female bodies are recommended for use with PB series male tips (N 6).

For more information, please consult our catalogue 3800-GB-F.

Principle

Parker PBS Series combines many advantages : **Easy operations and safety.** A low connection force allows an easy “push-to-connect action”. One handed disconnection permits air to vent safely. PBS Series meets the ISO 4414 and DIN EN983 specifications. **The system is depressurised downstream prior to disconnection which will prevent hose whip.**

Ergonomics : this series is lightweight, robust in its construction and produced in impact resistant material to increase service life and resistance to abrasion, shocks, crushing and vibration. The plastic sleeve construction has also the advantage of protecting surfaces from scratching.

Body sizes : 1/4", 3/8", 1/2".

- Valving on female half only : streamlined poppet
- Meets the requirements of ISO 6150-B & US MIL-C4109
- End configurations : BSPP, BSPT and hose barb.



Technical features

Material							Male tip	Body size	Flow rates NI/min.*	Temperature range	Max. operating pressure
Female body											
End adaptor	Body	Sleeve	Poppet	Spring and snap ring	Clamps	Seals					
Zinc plated steel	Polya- mide	Polya- mide	Polya- cetal	Stainless steel	(1/4" - 3/8") Polyacetal	NBR (Nitrile)	For sizes 1/4" & 3/8" Hardened steel nickel plated For size 1/2" carbon- trided steel	1/4" 3/8" 1/2"	880 1800 4160	From -15°C to + 70°C	16 bar
					Pins and balls (1/2")						
					Stainless steel						

*Rated flow at pressure drop of 0,6 bar and 6 bar inlet pressure.

Applications

Due to a streamlined poppet, the PBS Series has high flow characteristics enabling them to be used with any type of pneumatic tool such as pneumatic spanners and cutters, grinding wheels, pneumatic hoists...

Easy operations

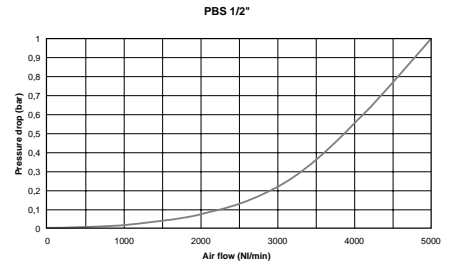
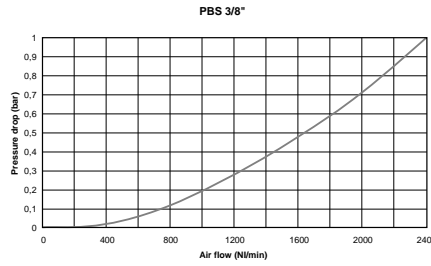
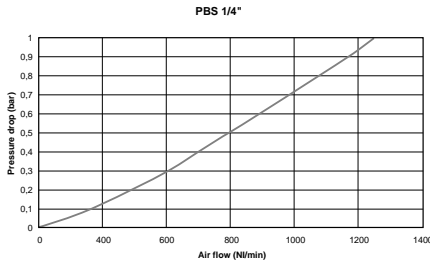


To decompress the down stream system, you just have to pull in the direction indicated on the arrow 1. A thrust in the opposite direction is disconnecting the male tip in total safety.

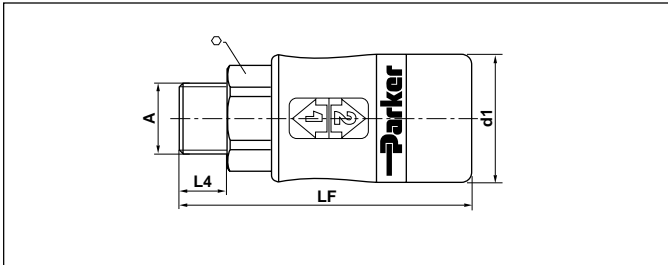
PBS series

Pressure drop

Tests with air

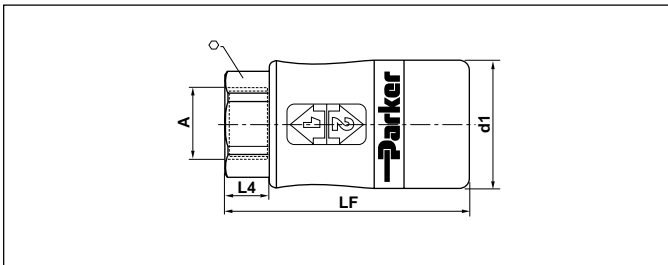


PBS - 251/371/501 - MB - Female body - male thread BSPP



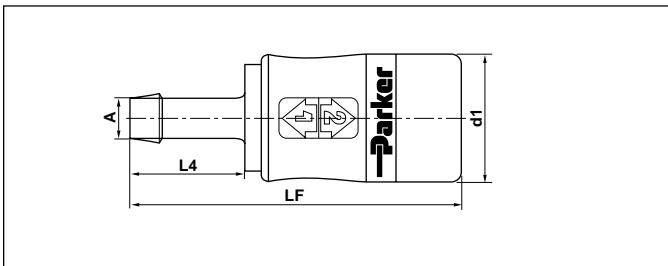
Size	A	Part number	d1		LF	L4
1/4	1/4	PBS - 251 - 4MB	30	17	74,5	11
1/4	3/8	PBS - 251 - 6MB	30	23	77	12
3/8	3/8	PBS - 371 - 6MB	35	21	86	12
3/8	1/2	PBS - 371 - 8MB	35	23	89	14
1/2	1/2	PBS - 501 - 8MB	41	30	89	14
1/2	3/4	PBS - 501 - 12MB	41	30	91	16

PBS - 251/371/501 - FB - Female body - female thread BSPP



Size	A	Part number	d1		LF	L4
1/4	1/4	PBS - 251 - 4FB	30	17	64	9
1/4	3/8	PBS - 251 - 6FB	30	23	71	16
3/8	3/8	PBS - 371 - 6FB	35	21	74	9
3/8	1/2	PBS - 371 - 8FB	35	25	84	19
1/2	1/2	PBS - 501 - 8FB	41	30	86	24
1/2	3/4	PBS - 501 - 12FB	41	30	95	33

PBS - 251/371/501 - HB - Female body - hose barb



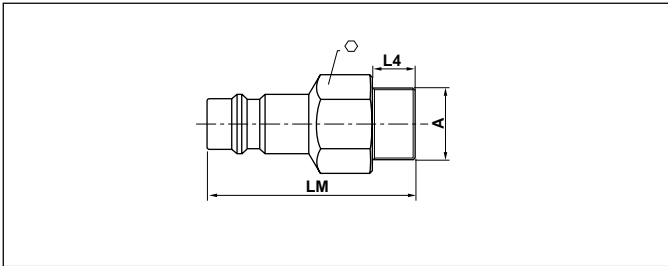
Size	A mm	Part number	d1	LF	L4
1/4	6	PBS - 251 - 4HB	30	82	23
1/4	8	PBS - 251 - 5HB	30	82	23
1/4	10	PBS - 251 - 6HB	30	82	23
3/8	8	PBS - 371 - 5HB	35	92	23
3/8	10	PBS - 371 - 6HB	35	92	23
1/2	13	PBS - 501 - 8HB	41	109	33
1/2	16	PBS - 501 - 10HB	41	109	33

N

PBS series

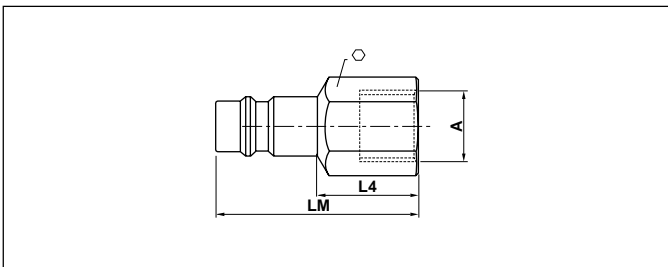
Important : For size 1/4 & 3/8", male tips to be used with PBS female bodies are those of the PB Series (page N6).
 For size 1/2", please use the male tips PBS-502 with a specific treatment especially designed to withstand high flows.

PBS - 502 - MBT - Male tip - male thread BSPT



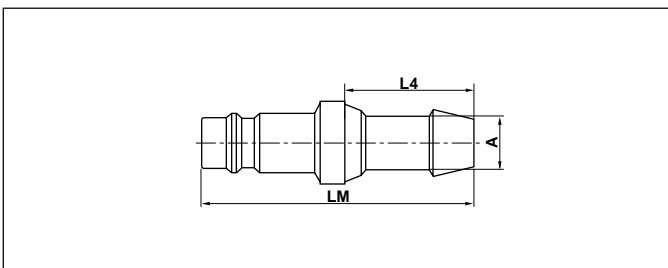
Size	A	Part number	Hexagon	LM	L4
1/2	3/8	PBS - 502 - 6MBT	17	82	11
1/2	1/2	PBS - 502 - 8MBT	22	84	15

PBS - 502 - FB - Male tip - female thread BSPP



Size	A	Part number	Hexagon	LM	L4
1/2	3/8	PBS - 502 - 6FB	25	60	25
1/2	1/2	PBS - 502 - 8FB	25	60	25

PBS - 502 - HB - Male tip - hose barb



Size	A mm	Part number	LM	L4
1/2	13	PBS - 502 - 8HB	70	33
1/2	16	PBS - 502 - 10HB	69	33

PE series

Principle

Showing the same overall dimensions as corresponding size PB couplers, the PE series offers the double advantage of a profile design widespread in Europe and improved flow performance due to a larger flow path (7.2 mm).

- Valving on female half only : poppet.
- End configuration : BSP male and female, barb connector, Parker Push-Lok.
- One-hand operated (Push-to-connect).



Technical features

Material							Male tip	Body size	Flow rates l/min*	Temperature range	Max. operating pressure
Female body											
End adaptor	Body	Sleeve	Valve	Spring and snap ring	Pins	Seals					
Brass	Brass	Brass	Brass	AISI 301 Stainless steel	AISI 420 Stainless steel hardened 54HRC	NBR (Nitrile)	Brass	7.2 mm	1000	From -20°C to +100°C	35 bar

* Rated flow at pressure drop of 0.5 bar and 6 bar inlet pressure.

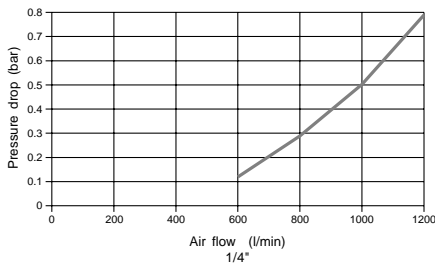
Applications

Because of their flow characteristics, the PE series of couplers satisfies most pneumatic applications and can even replace couplers of a different design, but of larger size. They are ideally used with all kinds of pneumatic hand tools.

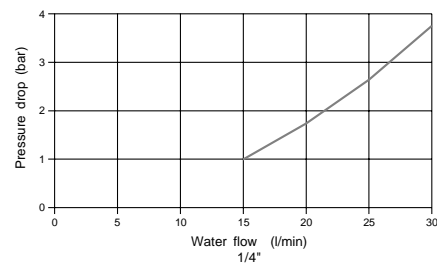
For more information, please consult our catalogue 3800-GB-F.

Pressure drop

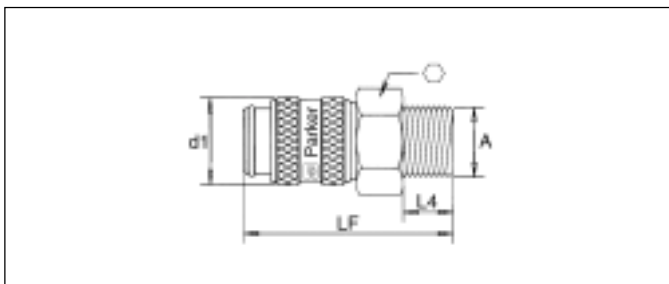
Tests with air, inlet pressure 6 bar.



Tests with water

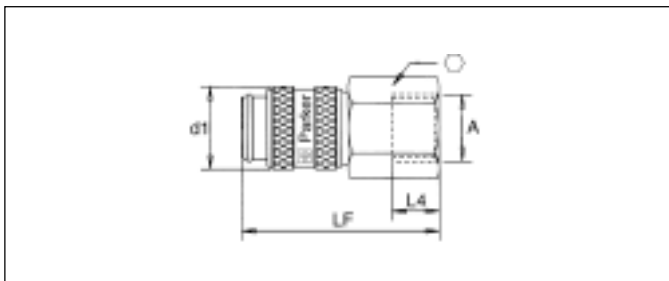


PE52 F3C - Female body - male thread BSPP



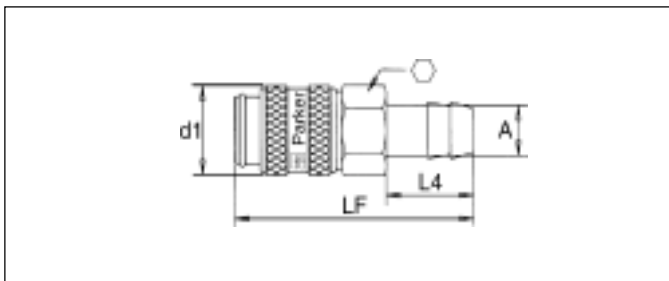
Body size mm	A	Part number	d1		LF	L4
7.2	1/4	PE52 F3C2	25	22	39	9
7.2	3/8	PE52 F3C3	25	22	41	9
7.2	1/2	PE52 F3C4	25	22	44	12

PE52 G4Z - Female body - female thread BSPP



Body size mm	A	Part number	d1		LF	L4
7.2	1/4	PE52 G4Z2	25	22	41	9
7.2	3/8	PE52 G4Z3	25	22	41	9
7.2	1/2	PE52 G4Z4	25	24	44	10

PE52 EB - Female body - hose barb

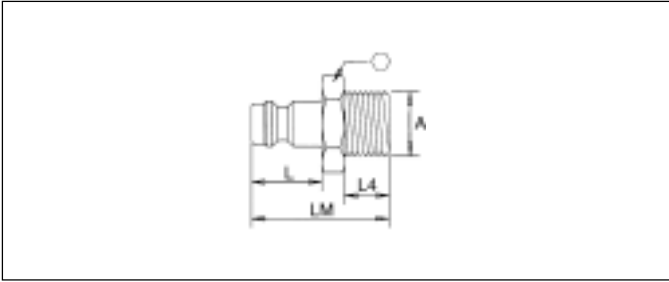


Body size mm	A mm	Part number	d1		LF	L4
7.2	6	PE52 EB6	25	21	58	25
7.2	8	PE52 EB8	25	21	58	25
7.2	10	PE52 EB10	25	21	58	25

For more information, please consult our catalogue 3800-GB-F.

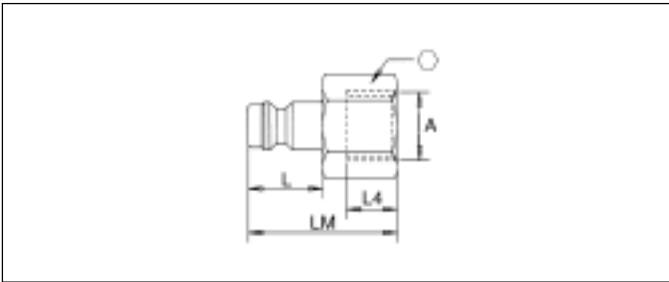
PE series

PE12 F3C - Male tip - male thread BSPP



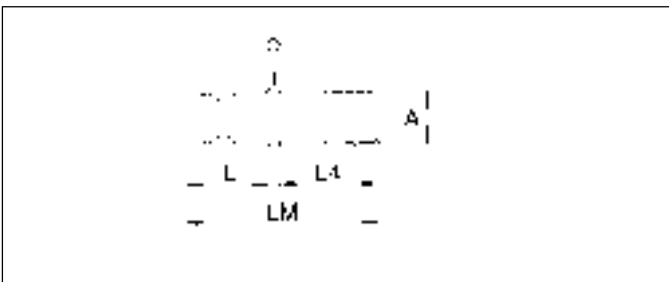
Body size mm	A	Part number	Hexagon	L	LM	L4
7.2	1/8	PE12 F3C1	14	20	31	9
7.2	1/4	PE12 F3C2	17	20	33	9
7.2	3/8	PE12 F3C3	19	20	33	9

PE12 G4Z - Male tip - female thread BSPP



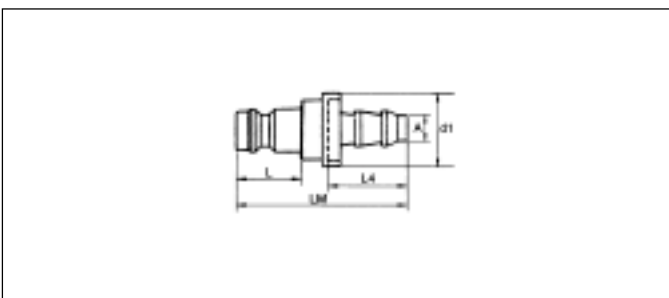
Body size mm	A	Part number	Hexagon	L	LM	L4
7.2	1/4	PE12 G4Z2	17	20	33	10
7.2	3/8	PE12 G4Z3	19	20	33	10
7.2	1/2	PE12 G4Z4	24	20	35	12

PE12 EB - Male tip - hose barb



Body size mm	A mm	Part number	Ø	L	LM	L4
7.2	6	PE12 EB6	12	20	48	25
7.2	8	PE12 EB8	12	20	48	25
7.2	10	PE12 EB10	12	20	48	25
7.2	13	PE12 EB13	15	20	48	25

PE12 PL - Male tip - Push-Lok



Body size mm	A	Part number	d1	L	LM	L4
7.2	1/4	PE12 PL4	18.0	20	42	20.4
7.2	3/8	PE12 PL6	22.0	20	46	24.2
7.2	1/2	PE12 PL8	24.5	20	50	27.9

For more information, please consult our catalogue 3800-GB-F.

Principle

The PEF series are available in 7.2 and 10 mm nominal sizes with the same profile as PE series. However, flow characteristics are even better.

- Valving on female half only : poppet.
- End configuration : BSP male and female, barb connector, Parker Push-Lok.
- One-hand operated (Push-to-connect).



Technical features

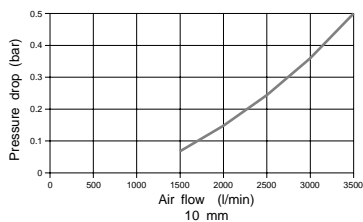
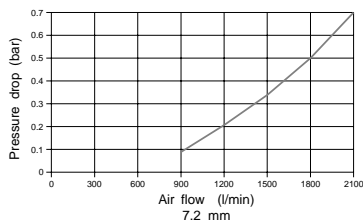
Material								Body size	Flow rates l/min	Temperature range	Max. operating pressure
Female body							Male tip				
End adaptor	Body	Sleeve	Poppet	Spring and snap ring	Balls	Seals					
Brass nickel plated	Brass nickel plated	Steel hardened and nickel plated	Brass	AISI 301 Stainless steel	AISI 420 Stainless steel	NBR (Nitrile)	Hardened steel nickel plated	7.2 mm 10 mm	1800 3500	From -20°C to +100°C	16 bar

Applications

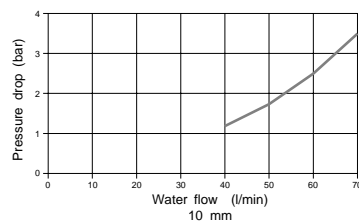
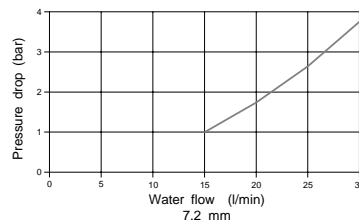
Showing exceptional flow characteristics, PEF series couplers are used in all pneumatic applications, where pressure drop has to be reduced to an absolute minimum, and energy saving is essential.

Pressure drop

Tests with air, inlet pressure 6 bar.

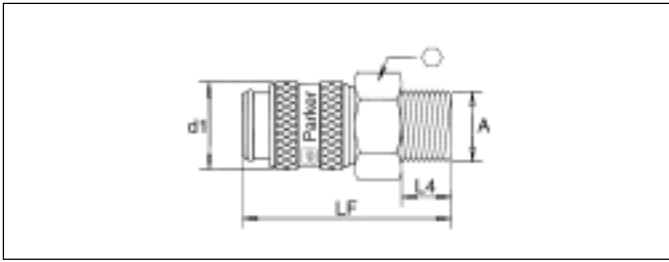


Tests with water



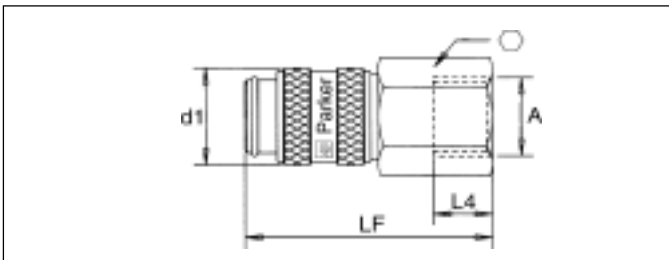
PEF series

PEF52/53 F3C - Female body - male thread BSPT



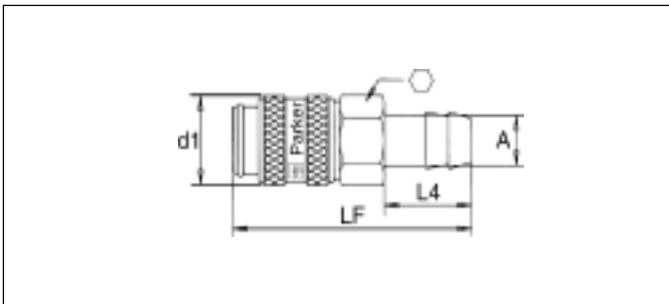
Body size mm	A	Part number	d1	Hexagon	LF	L4
7.2	1/4	PEF52 F3C2	23	19	60	12
7.2	3/8	PEF52 F3C3	23	19	60	12
7.2	1/2	PEF52 F3C4	23	22	61	17
10.0	3/8	PEF53 F3C3	27	24	63	12
10.0	1/2	PEF53 F3C4	27	24	65	17

PEF52/53 G4Z - Female body - female thread BSPP



Body size mm	A	Part number	d1	Hexagon	LF	L4
7.2	1/4	PEF52 G4Z2	23	19	56	10
7.2	3/8	PEF52 G4Z3	23	19	55	9
7.2	1/2	PEF52 G4Z4	23	24	58	12
10.0	3/8	PEF53 G4Z3	27	24	56	11
10.0	1/2	PEF53 G4Z4	27	24	56	12

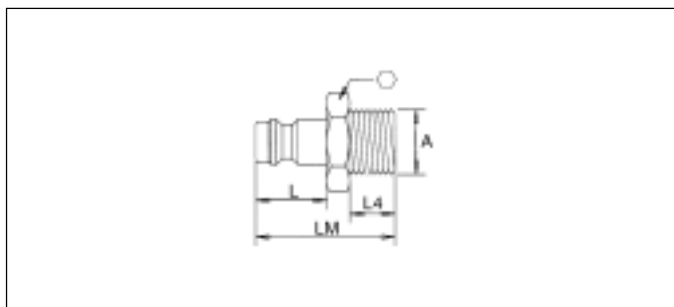
PEF52/53 EB - Female body - hose barb



Body size mm	A mm	Part number	d1	Hexagon	LF	L4
7.2	6	PEF52 EB6	23	19	74	25
7.2	8	PEF52 EB8	23	19	74	25
7.2	10	PEF52 EB10	23	19	74	25
10.0	6	PEF53 EB6	27	24	76	25
10.0	8	PEF53 EB8	27	24	76	25
10.0	10	PEF53 EB10	27	24	76	25
10.0	13	PEF53 EB13	27	24	76	25

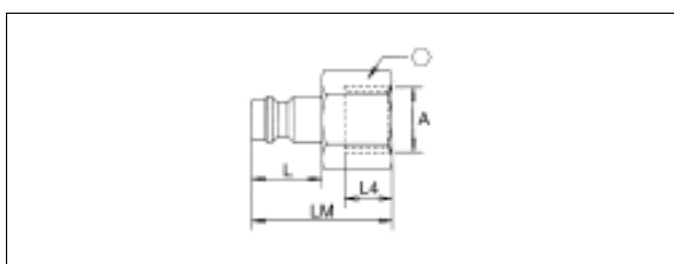
For more information, please consult our catalogue 3800-GB-F.

PEF12/13 F3C - Male tip - male thread BSPT



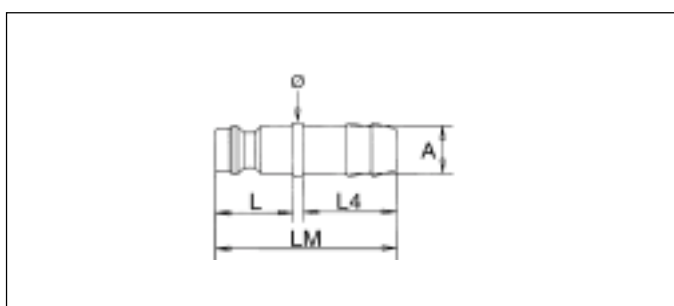
Body size mm	A	Part number	⊙	L	LM	L4
7.2	1/8	PEF12 F3C1	13	20.0	33	9
7.2	1/4	PEF12 F3C2	14	20.0	37	12
7.2	3/8	PEF12 F3C3	17	20.0	37	12
7.2	1/2	PEF12 F3C4	22	20.0	43	17
10.0	1/4	PEF13 F3C2	17	21.5	40	12
10.0	3/8	PEF13 F3C3	17	21.5	40	12
10.0	1/2	PEF13 F3C4	22	21.5	45	17

PEF12/13 G4Z - Male tip - female thread BSPP



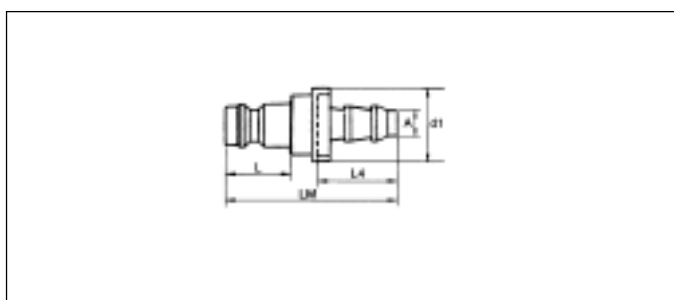
Body size mm	A	Part number	⊙	L	LM	L4
7.2	1/4	PEF12 G4Z2	17	20.0	33	9
7.2	3/8	PEF12 G4Z3	19	20.0	33	9
7.2	1/2	PEF12 G4Z4	24	20.0	36	12
10.0	3/8	PEF13 G4Z3	19	21.5	33	9
10.0	1/2	PEF13 G4Z4	24	21.5	37	12

PEF12/13 EB - Male tip - hose barb



Body size mm	A mm	Part number	∅	L	LM	L4
7.2	6	PEF12 EB6	12	20.0	48	25
7.2	8	PEF12 EB8	12	20.0	48	25
7.2	10	PEF12 EB10	12	20.0	48	25
10.0	6	PEF13 EB6	15	21.5	48	25
10.0	8	PEF13 EB8	15	21.5	48	25
10.0	10	PEF13 EB10	15	21.5	48	25
10.0	13	PEF13 EB13	15	21.5	48	25

PEF12/13 PL - Male tip - Push-Lok



Body size mm	A	Part number	d1	L	LM	L4
10	1/4	PEF13 PL4	18	21.5	44.0	20.4
10	3/8	PEF13 PL6	22	21.5	47.8	24.2

For more information, please consult our catalogue 3800-GB-F.

PES series

Principle

Parker PES Series combines many advantages : **Easy operations and safety**. A low connection force allows an easy “push-to-connect action”. One handed disconnection permits air to vent safely. PES Series meets the ISO 4414 and DIN EN983 specifications. **The system is depressurised downstream prior to disconnection which will prevent hose whip.**

Ergonomics : this series is lightweight, robust in its construction and produced in impact resistant material to increase service life and resistance to abrasion, shocks, crushing and vibration. The plastic sleeve construction has also the advantage of protecting surfaces from scratching.

Body size : 7.2 mm.

- Valving on female half only : streamlined poppet
- Meets the requirements of “Europrofile”
- End configurations : BSPP, BSPT and hose barb.



Technical features

Material							Male tip	Body size	Flow rates NI/min.*	Temperature range	Max. operating pressure
Female body											
End adaptor	Body	Sleeve	Poppet	Spring and snap ring	Pins and balls	Seals					
Zinc plated steel	Polyamide	Polyamide	Polyacetal	Stainless steel	Stainless steel	NBR (Nitrile)	carbon-tritrid steel	7.2 mm	1470	From -15°C to +70°C	16 bar

*Rated flow at pressure drop of 0,6 bar and 6 bar inlet pressure.

Applications

Due to a streamlined poppet, the PES Series has high flow characteristics enabling them to be used with any type of pneumatic tool such as pneumatic spanners and cutters, grinding wheels, pneumatic hoists...

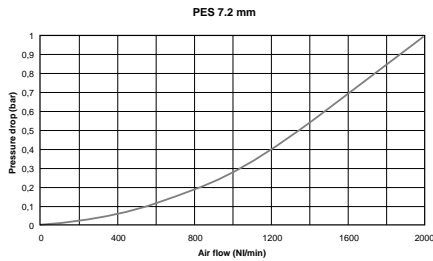
Easy operations



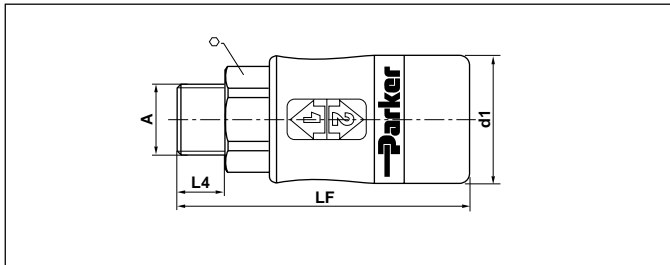
To decompress the down stream system, you just have to pull in the direction indicated on the arrow 1. A trust in the opposite direction is disconnecting the male tip in total safety.

Pressure drop

Tests with air

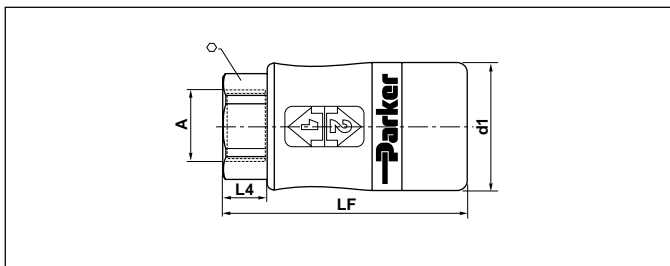


PES - 251 - MB - Female body - male thread BSPP



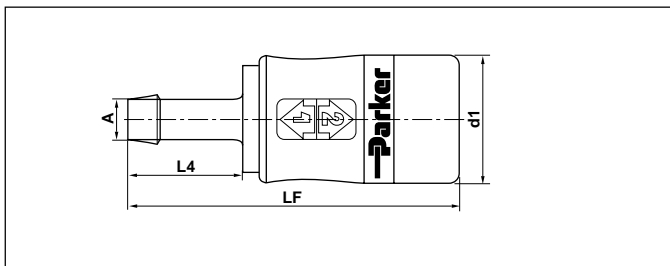
Size mm	A	Part number	d1	⬡	LF	L4
7.2	1/4	PES - 251 - 4MB	32	21	71	22
7.2	3/8	PES - 251 - 6MB	32	21	72	23

PES - 251 - FB - Female body - female thread BSPP



Size mm	A	Part number	d1	⬡	LF	L4
7.2	1/4	PES - 251 - 4FB	32	21	60	11
7.2	3/8	PES - 251 - 6FB	32	21	60	11

PES - 251 - HB - Female body - hose barb



Size mm	A	Part number	d1	LF	L4
7.2	6	PES - 251 - 4HB	32	78	29
7.2	8	PES - 251 - 5HB	32	78	29
7.2	10	PES - 251 - 6HB	32	78	29

Important : Male tips to be used with PES female bodies are those of the PEF Series (page N15).

PCF series

Principle

The PCF series, available in the 1/4" body size, has been designed to meet the profile defined in ISO standard 6150-C. It has very good flow capability.

- Valving on female half only : poppet
- Meets the requirements of ISO 6150-C
- End configuration : BSP male and female, barb connector
- One-hand operated (Push-to-connect)



Technical features

Material								Body size	Flow rates l/min	Temperature range	Max. operating pressure
Female body							Male tip				
End adaptor	Body	Sleeve	Poppet	Spring and snap ring	Balls	Seals					
Brass nickel plated	Brass nickel plated	Steel hardened and nickel plated	Brass	AISI 301 Stainless steel	AISI 420 Stainless steel	NBR (Nitrile)	Hardened steel, nickel plated	1/4"	970	From -20 °C to +100 °C	15 bar

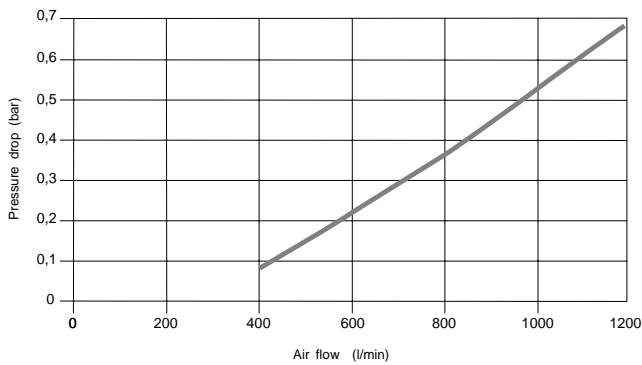
Applications

The 1/4" size PCF series pneumatic couplers are extensively used in the connection of pneumatic tools currently utilised in industry.

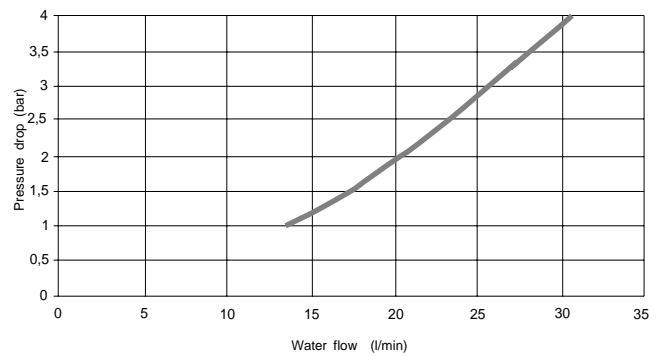
For more information, please consult our catalogue 3800-GB-F.

Pressure drop

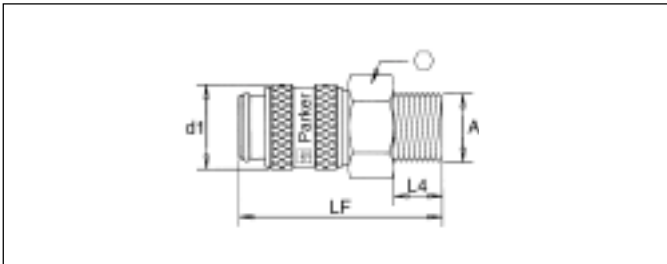
Tests with air, inlet pressure 6 bar.



Tests with water

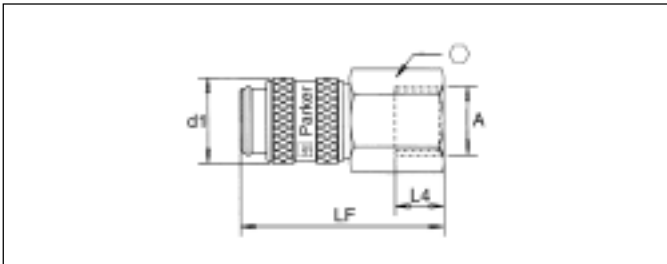


PCF52F3C - Female body - male thread BSPT



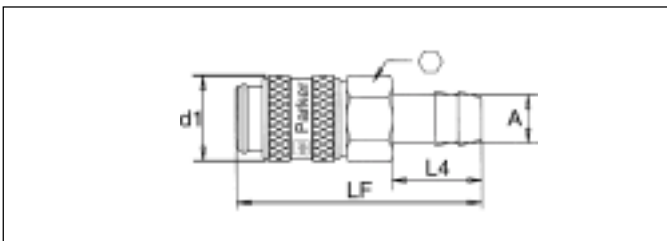
Body size	A	Part number	d1	⊘	LF	L4
1/4	1/4	PCF52F3C2	23	19	63	12
1/4	3/8	PCF52F3C3	23	19	63	12
1/4	1/2	PCF52F3C4	23	22	68	17

PCF52G4Z - Female body - female thread BSPP



Body size	A	Part number	d1	⊘	LF	L4
1/4	1/4	PCF52G4Z2	23	19	58	9
1/4	3/8	PCF52G4Z3	23	19	57	9
1/4	1/2	PCF52G4Z4	23	24	60	12

PCF52EB - Female body - hose barb

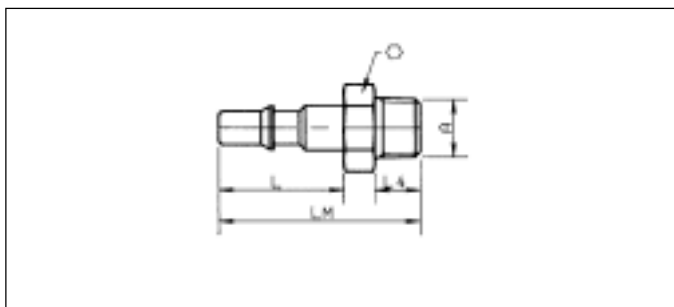


Body size	A mm	Part number	d1	⊘	LF	L4
1/4	6	PCF52EB6	23	19	76	25
1/4	8	PCF52EB8	23	19	76	25
1/4	10	PCF52EB10	23	19	76	25

For more information, please consult our catalogue 3800-GB-F.

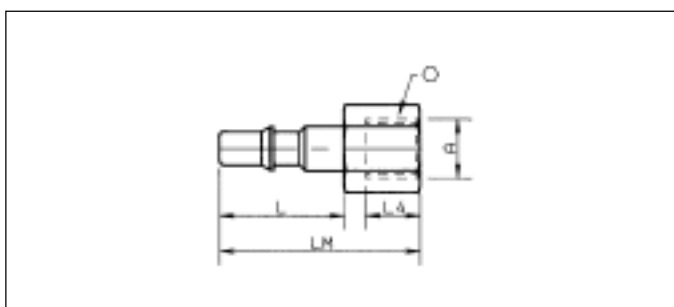
PCF series

PCF12F3C - Male tip - male thread BSPT



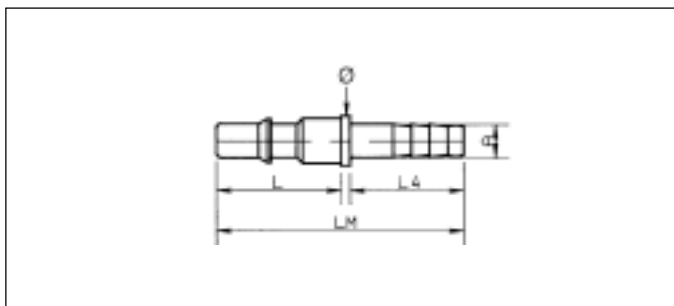
Body size	A	Part number	Ø	L	LM	L4
1/4	1/4	PCF12F3C2	17	27.5	41	9
1/4	3/8	PCF12F3C3	19	27.5	41	9

PCF12G4Z - Male tip - female thread BSPP



Body size	A	Part number	Ø	L	LM	L4
1/4	1/4	PCF12G4Z2	17	27.5	40	9
1/4	3/8	PCF12G4Z3	19	27.5	41	9

PCF12EB - Male tip - hose barb



Body size	A mm	Part number	Ø	L	LM	L4
1/4	6	PCF12EB6	12	27.5	59	25
1/4	8	PCF12EB8	12	27.5	59	25
1/4	10	PCF12EB10	12	27.5	59	25

For more information, please consult our catalogue 3800-GB-F.

Principle

The blow guns of the BG Series are available with a variety of nozzle configurations. They combine many advantages : light weight, reduced noise level, easy control, ergonomic design and variable flow, thus providing superior performance.

- Standard : nozzles available that meet OSHA requirements
- Inlet port : 1/4" NPTF and 1/4" BSP



Technical features

Material :

Impact resistant plastic.

Pistol grip trigger :

Allows greater control over the amount of air delivered.

Dual hooks for hanging.

Ergonomic lever :

For an easy, instantaneous handling, without effort.

Nozzles :

- extended nozzles allow air to be focused where it is needed
- short nozzles also available.

Standards :

Most models meet OSHA directives on the use of compressed air for cleaning purposes. OSHA directive

#100-1 states that "when dead ending occurs a static pressure at the main orifice shall not exceed 2 bar". For those blow guns that do not meet this requirement, OSHA requires that "compressed air shall not be used for cleaning purposes except where reduced to less than 2 bar, and then only with effective chip guarding and personal protective equipment" (section 29 CFR 1910.242 paragraph b). Please refer to the blow gun descriptions on the next page for compatibility with OSHA directive #100-1.

Temperature range	Rated pressure (bar)
-20 °C +50 °C	12

Applications

BG Series blow guns can be used at all the manufacturing stages to :

- blow off parts
- clean work-stations
- remove dust
- dry

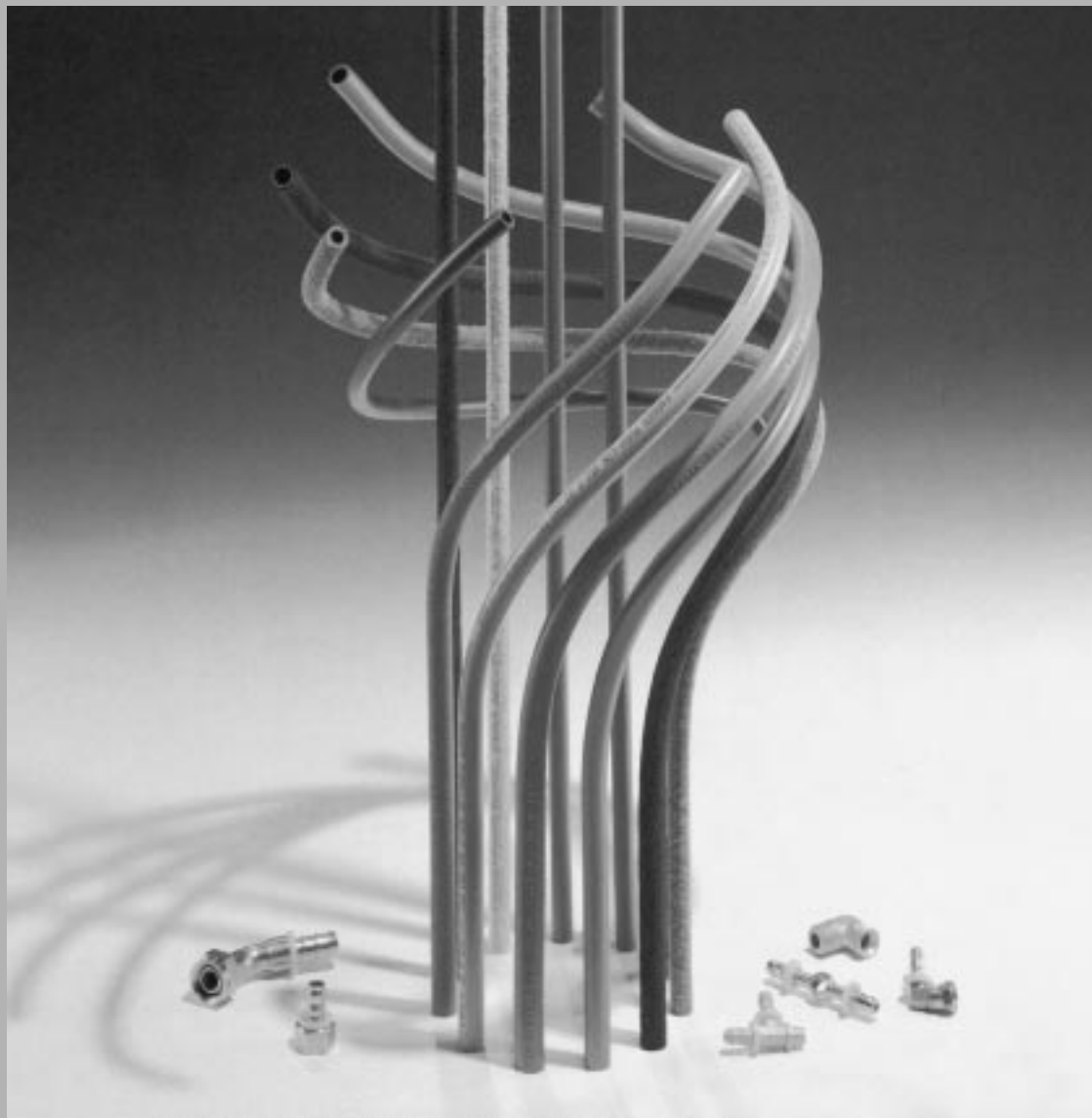
BG series

Blow Guns

Thread	Description	Meets OSHA requirements		Colour		Part Number
		yes	no	black	grey	
1/4 NPTF	Extended nozzle	•		•		BG442-SBL
1/4 NPTF	Extended nozzle	•			•	BG442-SGY
1/4 NPTF	Extended nozzle		•	•		BG441-NBL
1/4 NPTF	Short nozzle	•		•		BG444-SBL
1/4 NPTF	1/8" female NPT thread		•	•		BG443-NBL

Thread	Description	Meets OSHA requirements		Colour		Part Number
		yes	no	black	grey	
1/4 BSPP	Extended nozzle	•		•		BG342-SBL
1/4 BSPP	Extended nozzle		•	•		BG341-NBL
1/4 BSPP	Short nozzle	•		•		BG344-SBL

Catalogue 4482-UK



Push-Lok® Hoses and fittings

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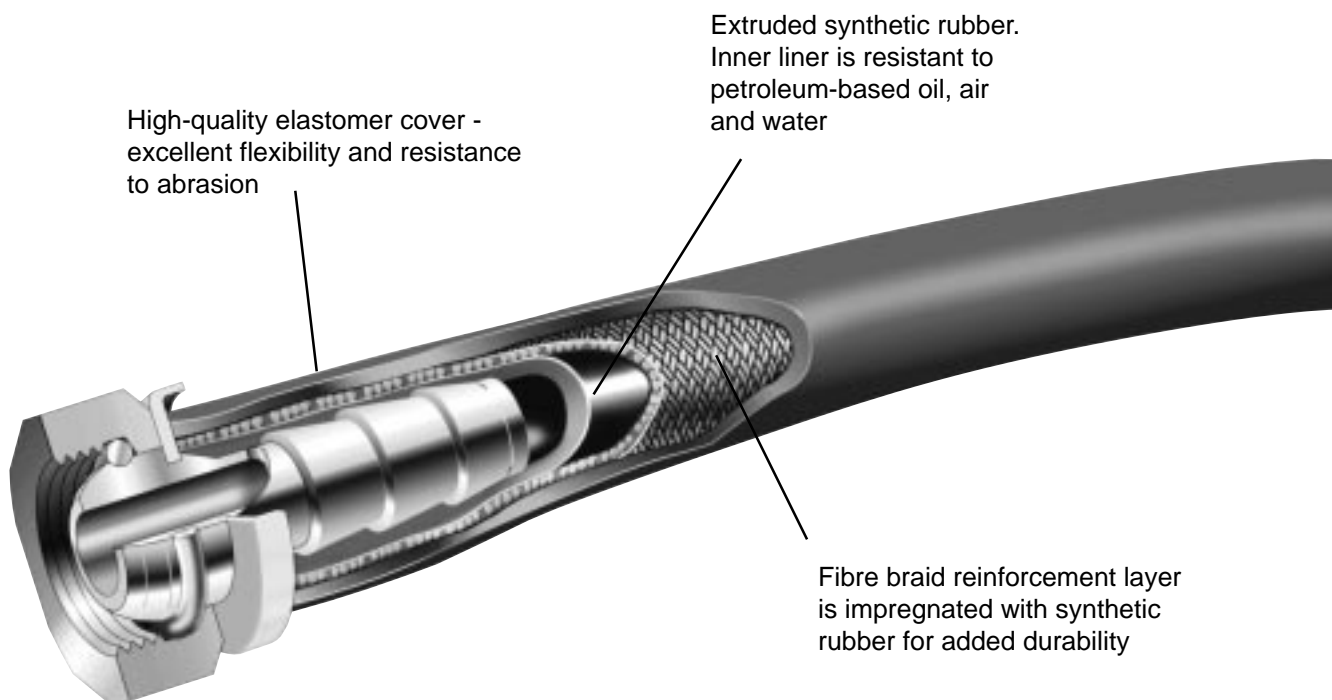
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For your safety !

Flexible hoses are used to transmit fluids, sometimes at considerable pressures. The power-grip connection between the fitting and the hose is a critical zone in all flexible hose connections. Only use Parker components (hoses and nipples) designed to be assembled by means of the appropriate Parker tooling, which will ensure full compliance with standards. Following installation recommendations and suitable maintenance also give a guarantee for long life of the flexible hose. Non-compliance with these elementary rules can lead to the rupture of a flexible hose and cause considerable damage and sometimes bodily injury.

Push-Lok® Hoses and fittings

Push-Lok®: an effective cost saving hose



Colour coding, a valuable Push-Lok® hose advantage

- 801 - hose is manufactured in grey, black, red and green.
- 804 - hose is manufactured in black.
- 821 - hose is manufactured in black.
- 821FR - hose is manufactured in black, blue, green and white.
- 831 - hose is manufactured in black, blue, green and red.
- 836 - hose is manufactured in blue.
- 837BM - hose is manufactured in black, blue, green, red and grey.

- Easy and fast identification of hose lines, where many hoses carry different fluids (e.g. oil, water, air, solutions, etc.)
- Immediate control and/or replacement of hose assemblies due to specific colours for diameters and lengths.
- Easy preventive maintenance
- Reduced maintenance time, when colours identify specific maintenance periods

GRA (GREY)	RED (RED)	BLK (BLACK)	WHT (WHITE)
BLU (BLUE)	GRN (GREEN)	ORA (ORANGE)	BRN (BROWN)

Please put the colour code at the end of your part number to get the correct hose.

Push-Lok® assembly instructions



1. Cut the hose right angled with a sharp knife. If necessary it is possible to use a lubricant (water/soap solution with 5% soap fluid and 95% water) for easy assembly (exception 837BM).



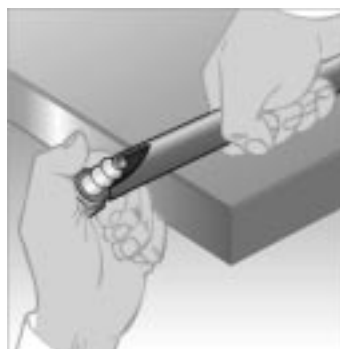
2. Insert fitting into hose until first barb is in hose. Place end of fitting against a flat object (bench, door, wall) and grip hose approximately 1" from end and push with a steady force until end of hose is covered by the yellow plastic collar. Alternatively please use the Parker Assembly Tool No. 611050G.

Attention! During assembly please note that Push-Lok® fittings will provide an effective grip only when the Push-Lok® hose is pushed fully on the insert, where the cropped end of the hose should be fully concealed by the plastic collar. **For easy assembly of hose 837BM please use only Push-Lok® Assembly Oil No. H896137.** Push-Lok® Assembly Oil is free from wetting disturbing substances. Don't use oil, lubricant or soap fluids for this hose!

Push-Lok® disassembly instructions



1. Cut lengthwise along a line at approximately a 20° angle from centre line of hose. The cut should be approximately 1" long. Be careful not to nick barbs when cutting the hose.



2. Grip hose and give a sharp downward tug to disengage from fitting.

Attention! Before re-use of the nipple please check nipple for damage. Damaged nipples can cause leakage.

Push-Lok® assembly oil H896137

Water-oil emulsion for easier assembly of Parker Push-Lok® fittings. This product is very useful in combination with 837BM hose (lubs-free). Our Push-Lok® assembly oil is also free from wetting disturbing substances, like e.g. silicone.

1-litre bottle

Part No. H896137

Assembly tool

Tool designed for assembly of Push-Lok® fittings and hose in all sizes. Toggle actions greatly reduce effort necessary to hold hose and press in fitting. Only a few pounds of force are needed on either handle to quickly assemble any size.

Overall length: 320 mm

Weight: 2,2 kg

Part No. 611050G



Push-Lok® Hoses and fittings

801 - Push-Lok® Hose for low pressure applications



Hose construction : Synthetic rubber tube; one fibre braid reinforcement; oil and weather resistant synthetic rubber cover.

Fluid compatibility : Mineral based hydraulic and lubricating oils, coolant, antifreeze, air, water and water-oil emulsions. Further details are listed in the chemical chart.

Temperature range : -40 °C/+100 °C
 Exceptions : Air max. +70 °C
 Water max. +85 °C

Applications : Low pressure shopfloor air systems, pneumatic systems and general industrial and maintenance applications.

Restrictions : Not recommended for compressed air brakes, transportation of flammable fluids, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications. Not recommended for fuel lines.

Fittings: 82 series

Part Number	Hose-I.D.				Hose O.D.	Pressure rating				Vacuum Kilo Pascal*1	Min. bend radius mm	Weight kg/m
	DN	Inch	Size	mm		Max. dynamic working pressure		Min. burst pressure				
						MPa	psi	MPa	psi			
801-4-XXX-RL	6	1/4	-4	6.3	12.7	1.7	250	6.8	1000	95	65	0.13
801-6-XXX-RL	10	3/8	-6	9.5	15.9	1.7	250	6.8	1000	95	75	0.16
801-8-XXX-RL	12	1/2	-8	12.7	19.8	1.7	250	6.8	1000	95	130	0.27
801-10-XXX-RL	16	5/8	-10	15.9	23.0	1.7	250	6.8	1000	51	150	0.28
801-12-XXX-RL	20	3/4	-12	19.1	26.2	1.7	250	6.8	1000	51	180	0.36
801-16-RL	25	1	-16	25.4	32.5	1.2	175	4.8	700	51	250	0.55

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa

Note: when ordering, specify Push-Lok® hose part number, followed by size, followed by colour. Example: 801-4-XXX-RL

XXX = BLK = black BLU = blue RED = red GRN = green GRA = grey

Example: 801-4-GRN-RL (green) RL = only available on reels 801-16-RL is only available in grey.

804 - Push-Lok® Hose for Phosphate ester Fluids



Hose construction : EPDM synthetic rubber tube; a single fibre braid reinforcement and a black, EPDM synthetic rubber cover.

Fluid compatibility : Water, water glycol emulsions, air, phosphate ester based hydraulic fluids. Do not allow tube to contact any petroleum based fluids. Use liquid soap as lubricant. Further details are listed in the chemical chart.

Temperature range:
 Phosphate ester Hydraulic fluids -40 °C to +80 °C
 Exceptions: Air max. +70 °C
 Water max. +93 °C

Applications : Low pressure service hose ideally suited for general pneumatic applications (including dry air), water, water-glycol and phosphate ester based hydraulic fluids.

Restrictions : Not recommended for compressed air brakes, transportation of flammable gases, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications.

Fittings: 82 series

Part Number	Hose-I.D.				Hose O.D.	Pressure rating				Min. bend radius mm	Weight kg/m
	DN	Inch	Size	mm		Max. dynamic working pressure		Min. burst pressure			
						MPa	psi	MPa	psi		
804-4-RL	6	1/4	-4	6.3	12.7	0.9	125	3.4	500	65	0.13
804-6-RL	10	3/8	-6	9.5	15.9	0.9	125	3.4	500	75	0.16
804-8-RL	12	1/2	-8	12.7	19.8	0.9	125	3.4	500	130	0.27
804-12-RL	20	3/4	-12	19.1	26.2	0.9	125	3.4	500	180	0.36

RL = only available on reels

Only items priced in current price list are carried in stock.

Push-Lok® Hoses and fittings

821 - Push-Lok® Hose with textile braided outer cover



Hose construction : Synthetic rubber tube; one textile braid reinforcement; abrasion, oil and weather resistant black textile braided cover

Fluid compatibility : Mineral based hydraulic and lubricating oils, coolant, antifreeze, water, water-oil emulsions. Further details are listed in the chemical chart.

Temperature range : -40 °C/+100 °C
 Exceptions : Air max. +70 °C
 Water max. +85 °C

Applications : Shopfloor air systems and general industrial, maintenance and automotive applications for air, water, lubricating oils and antifreeze.

Restrictions : Not recommended for compressed air brakes, transportation of flammable fluids, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications. Not recommended for fuel lines.

Fittings : 82 series

Part number	Hose-I.D.				Hose O.D. mm	Pressure rating				Vacuum Kilo Pascal*1	Min. bend radius mm	Weight kg/m
	DN	Inch	Size	mm		Max. dynamic working pressure		Min. burst pressure				
						MPa	psi	MPa	psi			
821-4	6	1/4	-4	6.3	12.7	2.4	350	10.0	1400	95	65	0.07
821-6	10	3/8	-6	9.5	15.9	2.0	300	8.0	1200	95	75	0.13
821-8	12	1/2	-8	12.7	19.8	2.0	300	8.0	1200	95	130	0.18
821-10	16	5/8	-10	15.9	23.0	1.7	250	7.0	1000	95	150	0.28
821-12	20	3/4	-12	19.1	26.2	1.7	250	7.0	1000	95	180	0.31

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa
 Reels (RL) available upon request.

821FR - Push-Lok® Hose with Fire-resistant cover



Hose construction : Synthetic rubber tube; one fibre braid reinforcement; weld spark, oil- and mildew resistant black, blue, green, white or brown fibre braided cover.

Fluid compatibility : Mineral based hydraulic and lubricating oils, coolant, antifreeze, water, water-oil emulsions. Further details are listed in the chemical chart.

Temperature range : -40 °C/+100 °C
 Air max. +70 °C
 Water max. +85 °C

Applications : Compressed air systems, general industrial, maintenance and automotive applications. Suitable in welding areas where sparks are prevalent.

Restrictions : Not recommended for compressed air brakes, transportation of flammable fluids, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications. Not recommended for fuel lines.

Fittings : 82 series

Part number	Hose-I.D.				Hose O.D. mm	Pressure rating				Vacuum Kilo Pascal*1	Min. bend radius mm	Weight kg/m
	DN	Inch	Size	mm		Max. dynamic working pressure		Min. burst pressure				
						MPa	psi	MPa	psi			
821FR-4-XXX-RL	6	1/4	-4	6.3	12.7	2.4	350	9.7	1400	95	65	0.12
821FR-6-XXX-RL	10	3/8	-6	9.5	15.9	2.0	300	8.3	1200	95	75	0.16
821FR-8-XXX-RL	12	1/2	-8	12.7	19.8	2.0	300	8.3	1200	95	130	0.18
821FR-12-XXX-RL	20	3/4	-12	19.0	26.2	1.7	250	6.8	1000	95	180	0.33

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa
 Note: when ordering, specify Push-Lok® hose part number, followed by size, followed by colour. Example: 821FR-4-XXX-RL
 XXX = BLK = black BLU = blue GRN = green WHT = white BRN = brown
 Example: 821FR-4-GRN-RL (green) RL = only available on reels

Only items priced in current price list are carried in stock.

Push-Lok® Hoses and fittings

831 - Push-Lok® Hose for all standard industrial applications



Hose construction : Synthetic rubber tube; one fibre braid reinforcement; black, green, blue or red oil and weather resistant synthetic rubber cover.

Fluid compatibility : Mineral based hydraulic and lubricating oils, coolant, antifreeze, water, water-oil emulsions. Further details are listed in the chemical chart.

Temperature range : -40 °C/+100 °C
 Air max. +70 °C
 Water max. +85 °C

Applications : Low pressure shopfloor air systems, pneumatic systems and general industrial, maintenance and automotive applications.

Restrictions : Not recommended for compressed air brakes, transportation of flammable fluids, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications. Not recommended for fuel lines.

Fittings : 82 series

Part number	Hose-I.D.				Hose O.D. mm	Pressure rating				Vacuum Kilo Pascal*1	Min. bend radius	Weight
	DN	Inch	Size	mm		Max. dynamic working pressure MPa	psi	Min. burst pressure MPa	psi			
831-4-XXX-RL	6	1/4	-4	6.3	12.7	2.4	350	9.7	1400	95	65	0.13
831-6-XXX-RL	10	3/8	-6	9.5	15.9	2.0	300	8.3	1200	95	75	0.16
831-8-XXX-RL	12	1/2	-8	12.7	19.8	2.0	300	8.3	1200	95	130	0.27
831-10-XXX-RL	16	5/8	-10	15.9	23.0	2.0	300	8.3	1200	51	150	0.28
831-12-XXX-RL	20	3/4	-12	19.1	26.2	2.0	300	8.3	1200	51	180	0.36

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa

Note: when ordering, specify Push-Lok® hose part number, followed by size, followed by colour. Example: 831-4-XXX-RL

XXX = BLK = black BLU = blue RED = red GRN = green

Example: 831-4-GRN-RL (green) RL = only available on reels

836 - Push-Lok® Hose for high Oil Temperatures



Hose construction : PKR® elastomer tube; one fibre braid reinforcement; blue PKR® elastomer cover, with an embossed layline for permanent identification.

Fluid compatibility : Mineral based hydraulic and lubricating oils, coolant, antifreeze, water, water-oil emulsions. Further details are listed in the chemical chart.

Temperature range : -40 °C/+150 °C
 Air max. +70 °C
 Water: max. +85 °C

Applications : Industrial machinery and engine compartments with high operating temperature level, shopfloor air systems, and widespread industrial and maintenance applications.

Restrictions : Not recommended for compressed air brakes, transportation of flammable fluids, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications. Not recommended for fuel lines.

Fittings : 82 series

Part number	Hose-I.D.				Hose O.D. mm	Pressure rating				Vacuum Kilo Pascal*1	Min. bend radius mm	Weight kg/m
	DN	Inch	Size	mm		Max. dynamic working pressure MPa	psi	Min. burst pressure MPa	psi			
836-4-RL	6	1/4	-4	6.3	12.7	1.7	250	6.8	1000	95	65	0.13
836-6-RL	10	3/8	-6	9.5	15.7	1.7	250	6.8	1000	95	75	0.16
836-8-RL	12	1/2	-8	12.7	19.8	1.7	250	6.8	1000	95	130	0.27
836-10-RL	16	5/8	-10	15.9	23.1	1.7	250	6.8	1000	51	150	0.28

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa

RL = only available on reels

Only items priced in current price list are carried in stock.

Push-Lok® Hoses and fittings

837BM - Labs-free with abrasion resistant cover (for standard applications in the automotive industry)



Hose construction : Synthetic rubber tube; one fibre braid reinforcement; highly abrasion and weather resistant black, grey, green, blue or red synthetic rubber cover. This hose is free of any wetting disturbing substances eg: silicone

Fluid compatibility : Mineral based hydraulic and lubricating oils, coolant, antifreeze, water*, water*-oil emulsions. Further details are listed in the chemical chart.

Temperature range : -40 °C/+100 °C
 Air: max. +70 °C
 Water*: max. +85 °C

Applications : The hose meets the automotive industry's requirement to be free from wetting disturbing substances. Suitable for robot lines, paint spraying air supply lines, pneumatic systems and general industrial applications.

Restrictions : Not recommended for compressed air brakes, transportation of flammable gases, hydraulic or other applications where extreme pulsations are encountered. Also not recommended for thyristor cooling applications.

Fittings : 82 series

Note : for assembly see notes on page 5.

Part number	Hose I.D.				Hose O.D. mm	Pressure rating				Vacuum Kilo Pascal*1	Min. bend radius mm	Weight kg/m
	DN	Inch	Size	mm		Max. dynamic working pressure		Min. burst pressure				
						MPa	psi	MPa	psi			
837BM-4-XXX-RL	6	1/4	-4	6.3	12.7	2.4	350	9.7	1400	95	65	0.13
837BM-6-XXX-RL	10	3/8	-6	9.5	15.9	2.0	300	8.3	1200	95	75	0.16
837BM-8-XXX-RL	12	1/2	-8	12.7	19.8	2.0	300	8.3	1200	95	130	0.27
837BM-10-XXX-RL	16	5/8	-10	15.9	23.0	2.0	300	8.3	1200	51	150	0.28
837BM-12-XXX-RL	20	3/4	-12	19.1	26.2	2.0	300	8.3	1200	51	180	0.36

*1 = the vacuum values listed in the table are vacuum pressure values in kPa. For an absolute value subtract the table value from 101kPa

Note: when ordering, specify Push-Lok® hose part number, followed by size, followed by colour. Example: 837BM-4-XXX-RL

XXX = BLK = black BLU = blue RED = red GRN = green GRA = grey

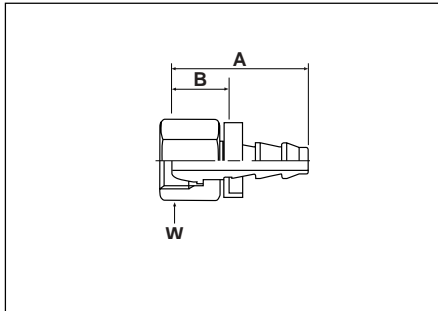
Example: 837BM-4-GRN-RL (green)

RL = only available on reels

Only items priced in current price list are carried in stock.

Push-Lok® Hoses and fittings

C3 - DIN 20 078 A Light Series Metric



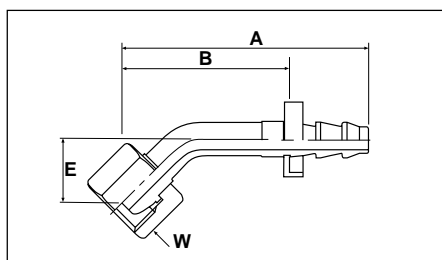
Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
3C382-6-4	6	1/4	-4	6.3	M12x1.5	6	33	15	14
3C382-6-4B	6	1/4	-4	6.3	M12x1.5	6	33	14	14
3C382-6-4BK	6	1/4	-4	6.3	M12x1.5	6	33	14	14
3C382-6-4C	6	1/4	-4	6.3	M12x1.5	6	35	16	14
3C382-8-4	6	1/4	-4	6.3	M14x1.5	8	33	14	17
3C382-8-4B	6	1/4	-4	6.3	M14x1.5	8	36	16	19
3C382-8-4BK	6	1/4	-4	6.3	M14x1.5	8	36	16	19
3C382-8-4C	6	1/4	-4	6.3	M14x1.5	8	33	14	17
3C382-10-4	6	1/4	-4	6.3	M16x1.5	10	34	15	19
3C382-10-4BK	6	1/4	-4	6.3	M16x1.5	10	34	15	19
3C382-10-4C	6	1/4	-4	6.3	M16x1.5	10	36	17	19
3C382-10-6	10	3/8	-6	9.5	M16x1.5	10	38	15	19
3C382-10-6B	10	3/8	-6	9.5	M16x1.5	10	38	15	19
3C382-10-6BK	10	3/8	-6	9.5	M16x1.5	10	38	15	19
3C382-10-6C	10	3/8	-6	9.5	M16x1.5	10	40	17	19
3C382-12-6	10	3/8	-6	9.5	M18x1.5	12	38	16	22
3C382-12-6BK	10	3/8	-6	9.5	M18x1.5	12	38	16	22
3C382-12-6C	10	3/8	-6	9.5	M18x1.5	12	38	15	22
3C382-15-8	12	1/2	-8	12.7	M22x1.5	15	42	15	27
3C382-15-8B	12	1/2	-8	12.7	M22x1.5	15	42	15	27
3C382-15-8BK	12	1/2	-8	12.7	M22x1.5	15	42	15	27
3C382-15-10	16	5/8	-10	15.9	M22x1.5	15	56	20	27
3C382-18-10	16	5/8	-10	15.9	M26x1.5	18	53	17	32
3C382-18-10C	16	5/8	-10	15.9	M26x1.5	18	54	17	32
3C382-22-12	20	3/4	-12	19.0	M30x2	22	53	17	36
3C382-22-12B	20	3/4	-12	19.0	M30x2	22	53	17	36
3C382-22-12BK	20	3/4	-12	19.1	M30x2	22	53	17	36
3C382-28-16	25	1	-16	25.4	M36x2	28	58	22	41
3C382-28-16BK	25	1	-16	25.4	M36x2	28	58	22	41
3C382-28-16-K	25	1	-16	25.4	M36x2	28	58	20	41
3C382-28-16C-K	25	1	-16	25.4	M36x2	28	58	20	41

B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 BK = Brass without plastic ring
 C = Stainless Steel
 K = Without plastic ring

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM
Only items priced in current price list are carried in stock.
 Dimensions shown may be changed at any time without prior notice.

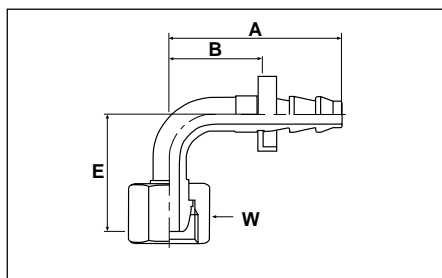
C4 - DIN 20 078 A Light Series Metric Swivel Female 45° Elbow



Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
3C482-6-4	6	1/4	-4	6.3	M12x1.5	6	51	32	16	14
3C482-6-4B	6	1/4	-4	6.3	M12x1.5	6	51	32	16	14
3C482-8-4	6	1/4	-4	6.3	M14x1.5	8	51	32	16	17
3C482-8-4B	6	1/4	-4	6.3	M14x1.5	8	51	32	16	17
3C482-8-4C	6	1/4	-4	6.3	M14x1.5	8	49	30	14	17
3C482-10-6	10	3/8	-6	9.5	M16x1.5	10	58	35	18	19
3C482-10-6B	10	3/8	-6	9.5	M16x1.5	10	58	35	18	19
3C482-10-6C	10	3/8	-6	9.5	M16x1.5	10	59	36	19	19
3C482-12-6	10	3/8	-6	9.5	M18x1.5	12	59	36	18	22
3C482-12-6B	10	3/8	-6	9.5	M18x1.5	12	59	36	18	22
3C482-15-8	12	1/2	-8	12.7	M22x1.5	15	68	41	19	27
3C482-15-8B	12	1/2	-8	12.7	M22x1.5	15	68	41	19	27
3C482-15-10	16	5/8	-10	15.9	M22x1.5	15	82	45	21	27
3C482-18-10	16	5/8	-10	15.9	M26x1.5	18	81	45	21	32
3C482-18-12	20	3/4	-12	19.1	M26x1.5	18	99	62	31	32
3C482-22-12	20	3/4	-12	19.1	M30x2	22	89	52	23	36
3C482-22-12B	20	3/4	-12	19.1	M30x2	22	89	52	23	36
3C482-28-16-K	25	1	-16	25.4	M36x2	28	105	67	30	41

B and BK parts have brass nipples and steel nuts.

C5 - DIN 20 078 A Light Series Metric Swivel Female 90° Elbow



Part Number	Hose I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
3C582-6-4	6	1/4	-4	6.3	M12x1.5	6	42	23	29	14
3C582-6-4C	6	1/4	-4	6.3	M12x1.5	6	42	23	29	14
3C582-8-4	6	1/4	-4	6.3	M14x1.5	8	42	23	29	17
3C582-10-4	6	1/4	-4	6.3	M16x1.5	10	42	23	29	19
3C582-10-4C	6	1/4	-4	6.3	M16x1.5	10	43	23	31	19
3C582-10-6	10	3/8	-6	9.5	M16x1.5	10	49	27	33	19
3C582-12-6	10	3/8	-6	9.5	M18x1.5	12	49	27	34	22
3C582-15-8	12	1/2	-8	12.7	M22x1.5	15	58	32	39	27
3C582-18-8C	12	1/2	-8	12.7	M22x1.5	18	58	32	39	27
3C582-18-10	16	5/8	-10	15.9	M26x1.5	18	74	37	43	32
3C582-18-10C	16	5/8	-10	15.9	M26x1.5	18	74	37	43	32
3C582-22-12	20	3/4	-12	19.1	M30x2	22	83	47	50	36
3C582-28-16-K	25	1	-16	25.4	M36x2	28	99	61	70	41

B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 C = Stainless Steel
 K = Without plastic ring

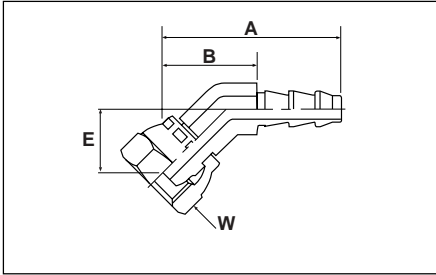
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

Only items priced in current price list are carried in stock.

Dimensions shown may be changed at any time without prior notice.

Push-Lok® Hoses and fittings

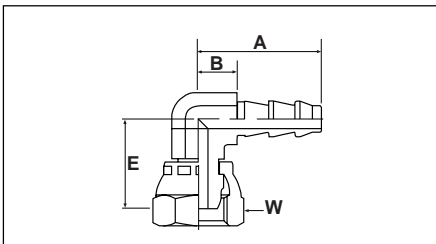
9B - DIN 20 078 A Light Series Metric Swivel Female 45° Elbow



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
39B82-6-4BK	6	1/4	-4	6.3	M12x1.5	6	44	23	16	14
39B82-8-4BK	6	1/4	-4	6.3	M14x1.5	8	43	23	15	19
39B82-10-6BK	10	3/8	-6	9.5	M16x1.5	10	48	25	16	19
39B82-12-6BK	10	3/8	-6	9.5	M18x1.5	12	50	26	17	22
39B82-15-8BK	12	1/2	-8	12.7	M22x1.5	15	54	26	18	27

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

9C - DIN 20 078 A Light Series Metric Swivel Female 90° Elbow



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
39C82-6-4BK	6	1/4	-4	6.3	M12x1.5	6	30	10	22	14
39C82-8-4BK	6	1/4	-4	6.3	M14x1.5	8	30	10	22	19
39C82-10-6BK	10	3/8	-6	9.5	M16x1.5	10	34	10	25	19
39C82-12-6BK	10	3/8	-6	9.5	M18x1.5	12	34	10	25	22
39C82-15-8BK	12	1/2	-8	12.7	M22x1.5	15	43	15	32	27

Body in brass, swivel nut zinc plated, yellow chromated.

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number.

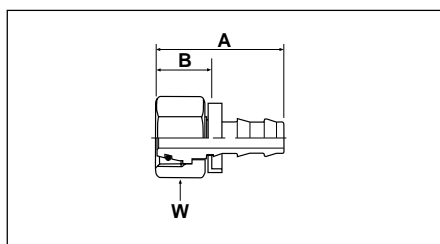
Material: without suffix = zinc plated - yellow chromated mild steel
BK = Brass without plastic ring

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

Only items priced in current price list are carried in stock.

Dimensions shown may be changed at any time without prior notice.

CA - DIN 20 078 N Light Series Metric Swivel Female

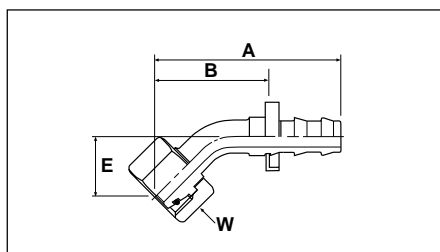


Part Number	Hose-I.D.			Thread metric	Tube O.D. mm	A mm	B mm	W mm	
	DN	Inch	Size						
3CA82-6-4	6	1/4	-4	6.3	M12x1.5	6	40	21	14
3CA82-6-4B	6	1/4	-4	6.3	M12x1.5	6	40	21	14
3CA82-8-4	6	1/4	-4	6.3	M14x1.5	8	36	17	17
3CA82-8-4B	6	1/4	-4	6.3	M14x1.5	8	36	17	17
3CA82-10-4	6	1/4	-4	6.3	M16x1.5	10	36	17	19
3CA82-10-4B	6	1/4	-4	6.3	M16x1.5	10	36	17	19
3CA82-10-6	10	3/8	-6	9.5	M16x1.5	10	40	17	19
3CA82-10-6B	10	3/8	-6	9.5	M16x1.5	10	40	17	19
3CA82-12-6	10	3/8	-6	9.5	M18x1.5	12	40	17	22
3CA82-12-6B	10	3/8	-6	9.5	M18x1.5	12	40	17	22
3CA82-15-8	12	1/2	-8	12.7	M22x1.5	15	44	18	27
3CA82-15-8B	12	1/2	-8	12.7	M22x1.5	15	44	18	27
3CA82-18-10	16	5/8	-10	15.9	M26x1.5	18	56	19	32
3CA82-15-12	20	3/4	-12	19.1	M22x1.5	15	60	24	27
3CA82-22-12	20	3/4	-12	19.1	M30x2	22	58	21	36
3CA82-22-12B	20	3/4	-12	19.1	M30x2	22	58	21	36

B and BK parts have brass nipples and steel nuts.

Fittings with standard O-Ring seals can be used for temperatures from -30 °C up to +105 °C.
Find O-Rings in catalogue 4400-UK section I. Special O-Rings are available on request.

CE - DIN 20 078 N Light Series Metric Swivel Female 45° Elbow



Part Number	Hose-I.D.			Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm	
	DN	Inch	Size							
3CE82-6-4	6	1/4	-4	6.3	M12x1.5	6	56	37	21	14
3CE82-8-4	6	1/4	-4	6.3	M14x1.5	8	53	34	18	17
3CE82-10-6	10	3/8	-6	9.5	M16x1.5	10	59	37	19	19
3CE82-12-6	10	3/8	-6	9.5	M18x1.5	12	60	37	19	22
3CE82-15-8	12	1/2	-8	12.7	M22x1.5	15	69	43	21	27
3CE82-18-10	16	5/8	-10	15.9	M26x1.5	18	80	43	23	32
3CE82-18-12	20	3/4	-12	19.1	M26x1.5	18	93	56	27	32
3CE82-22-12	20	3/4	-12	19.1	M30x2	22	92	55	26	36

B and BK parts have brass nipples and steel nuts.

Fittings with standard O-Ring seals can be used for temperatures from -30 °C up to +105 °C.
Find O-Rings in catalogue 4400-UK section I. Special O-Rings are available on request.

Material: without suffix = zinc plated - yellow chromated mild steel
B = Brass

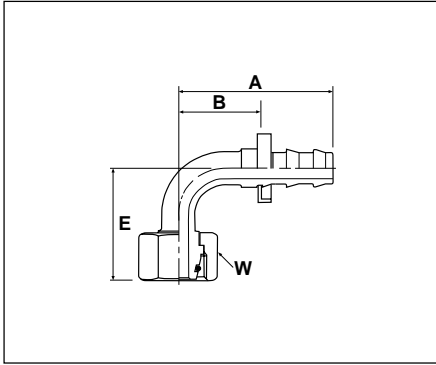
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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Push-Lok® Hoses and fittings

CF - DIN 20 078 N Light Series Metric Swivel Female 90° Elbow



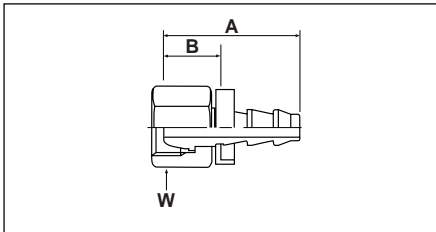
Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm						
3CF82-6-4	6	1/4	-4	6.3	M12x1.5	6	42	23	36	14
3CF82-8-4	6	1/4	-4	6.3	M14x1.5	8	42	23	32	17
3CF82-10-4	6	1/4	-4	6.3	M16x1.5	10	42	23	31	19
3CF82-10-6	10	3/8	-6	9.5	M16x1.5	10	49	27	35	19
3CF82-10-6B	10	3/8	-6	9.5	M16x1.5	10	49	27	35	19
3CF82-12-6	10	3/8	-6	9.5	M18x1.5	12	49	27	36	22
3CF82-15-8	12	1/2	-8	12.7	M22x1.5	15	58	32	41	27
3CF82-18-10	16	5/8	-10	15.9	M26x1.5	18	71	34	45	32
3CF82-22-12	20	3/4	-12	19.1	M30x2	22	83	47	55	36

B and BK parts have brass nipples and steel nuts.

Fittings with standard O-Ring seals can be used for temperatures from -30 °C up to +105 °C.

Find O-Rings in catalogue 4400-UK section I. Special O-Rings are available on request.

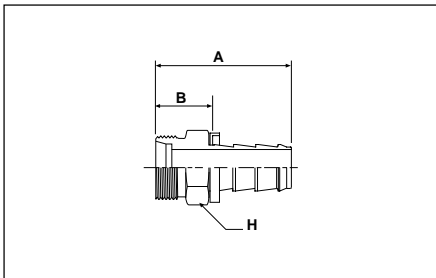
C0 - DIN 20 078 C Very Light Series Metric Swivel Female



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
3C082-20-12	20	3/4	-12	19.1	M30x1.5	20	53	17	36
3C082-20-12B	20	3/4	-12	19.1	M30x1.5	20	53	17	36

B and BK parts have brass nipples and steel nuts.

D0 - DIN 20 078 D Light Series Male Stud



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	H mm
	DN	Inch	Size	mm					
3D082-6-4	6	1/4	-4	6.3	M12x1.5	6	35	16	12
3D082-8-4	6	1/4	-4	6.3	M14x1.5	8	36	17	14
3D082-10-6	10	3/8	-6	9.5	M16x1.5	10	41	18	17
3D082-10-6B	10	3/8	-6	9.5	M16x1.5	10	41	18	17
3D082-10-6BK	10	3/8	-6	9.5	M16x1.5	10	41	18	17
3D082-12-6	10	3/8	-6	9.5	M18x1.5	12	41	18	19
3D082-12-6C	10	3/8	-6	9.5	M18x1.5	12	41	18	19
3D082-15-8	12	1/2	-8	12.7	M22x1.5	15	49	23	22
3D082-15-8B	12	1/2	-8	12.7	M22x1.5	15	49	23	22
3D082-15-8BK	12	1/2	-8	12.7	M22x1.5	15	49	22	22
3D082-18-10	16	5/8	-10	15.9	M26x1.5	18	58	21	27
3D082-22-12	20	3/4	-12	19.1	M30x2	22	63	27	30
3D082-22-12B	20	3/4	-12	19.1	M30x2	22	63	27	30
3D082-22-12BK	20	3/4	-12	19.1	M30x2	22	63	27	30

Material: without suffix = zinc plated - yellow chromated mild steel

B = Brass

BK = Brass without plastic ring

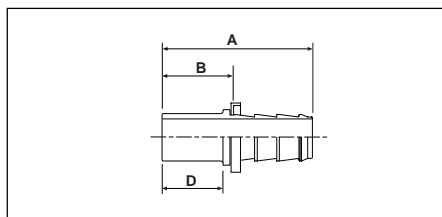
C = Stainless Steel

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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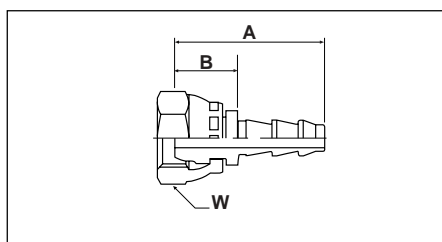
1D - Metric Standpipe Light Series



Part Number	Hose-I.D.				Tube O.D. mm	A mm	B mm	D mm
	DN	Inch	Size	mm				
31D82-6-4	6	1/4	-4	6.3	6	44	25	22
31D82-6-4B	6	1/4	-4	6.3	6	44	25	22
31D82-6-4BK	6	1/4	-4	6.3	6	44	25	22
31D82-8-4	6	1/4	-4	6.3	8	44	25	22
31D82-8-4B	6	1/4	-4	6.3	8	44	25	22
31D82-8-4BK	6	1/4	-4	6.3	8	44	25	22
31D82-10-6	10	3/8	-6	9.5	10	49	26	23
31D82-10-6B	10	3/8	-6	9.5	10	49	26	23
31D82-10-6BK	10	3/8	-6	9.5	10	49	26	23
31D82-12-6	10	3/8	-6	9.5	12	49	27	23
31D82-12-6B	10	3/8	-6	9.5	12	49	27	23
31D82-12-6BK	10	3/8	-6	9.5	12	49	27	23
31D82-12-8C	12	1/2	-8	12.7	12	54	27	23
31D82-15-8	12	1/2	-8	12.7	15	55	29	25
31D82-15-8K	12	1/2	-8	12.7	15	55	29	25
31D82-15-8B	12	1/2	-8	12.7	15	55	29	25
31D82-15-8BK	12	1/2	-8	12.7	15	55	29	25
31D82-15-8CK	12	1/2	-8	12.7	15	55	29	25
31D82-18-8BK	12	1/2	-8	12.7	15	55	29	25
31D82-18-10	16	5/8	-10	15.9	18	67	30	26
31D82-18-10B	16	5/8	-10	15.9	18	67	30	26
31D82-18-10BK	16	5/8	-10	15.9	18	67	30	26
31D82-22-12	20	3/4	-12	19.1	22	69	32	28
31D82-22-12B	20	3/4	-12	19.1	22	69	32	28
31D82-22-12BK	20	3/4	-12	19.1	22	69	32	28

Not recommended for new construction. Instead use C3 or CA.
Attention: For assembly of nut and sleeve use pre-assembly body.

5C - 60°-90° Cone Swivel Female



Part Number	Hose-I.D.				Thread metric	A mm	B mm	W mm
	DN	Inch	Size	mm				
35C82-12x1-4BK	6	1/4	-4	6.3	M12x1	33	13	14
35C82-6-4BK	6	1/4	-4	6.3	M12x1.5	33	14	14
35C82-10-6BK	10	3/8	-6	9.5	M16x1.5	38	15	19
35C82-15-8BK	12	1/2	-8	12.7	M22x1.5	44	18	27
35C82-18-10BK	16	5/8	-10	15.9	M26x1.5	56	18	32

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number.
B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
B = Brass
BK = Brass without plastic ring
C = Stainless Steel
K = Without plastic ring

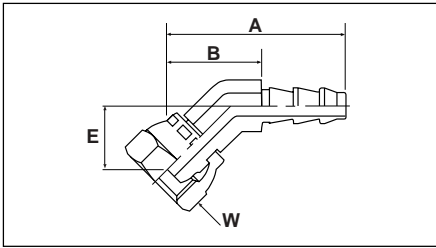
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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Push-Lok® Hoses and fittings

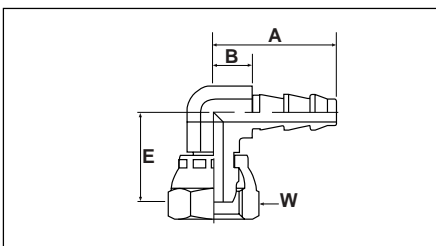
6C - 60°-90° Cone Swivel Female - 45° Elbow



Part Number	Hose-I.D.				Thread metric	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
36C82-12x1-4BK	6	1/4	-4	6.3	M12x1	43	22	15	14
36C82-6-4BK	6	1/4	-4	6.3	M12x1.5	44	25	16	14
36C82-10-6BK	10	3/8	-6	9.5	M16x1.5	48	26	16	19
36C82-15-8BK	12	1/2	-8	12.7	M22x1.5	54	28	18	27

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

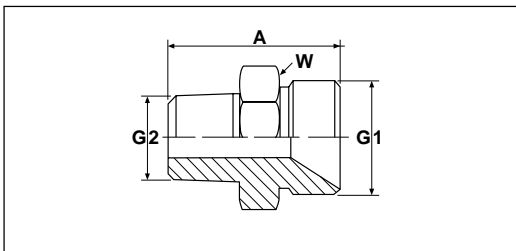
7C - 60°-90° Cone Swivel Female - 90° Elbow



Part Number	Hose-I.D.				Thread metric	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
37C82-12x1-4BK	6	1/4	-4	6.3	M12x1	30	10	22	14
37C82-6-4BK	6	1/4	-4	6.3	M12x1.5	30	11	22	14
37C82-10-6BK	10	3/8	-6	9.5	M16x1.5	34	11	25	19
37C82-15-8BK	12	1/2	-8	12.7	M22x1.5	43	16	32	27

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

EG - Straight Adaptor - Metric / BSP Taper



Part Number	Tube O.D. mm	Thread		A mm	w mm
		G1 metric	G2 BSP		
EG6-1/8B	6	M12x1	1/8	23	14
EG6-1/4B	6	M12x1	1/4	28	14
EG8-1/8B	8	M14x1.5	1/8	24	17
EG8-1/4B	8	M14x1.5	1/4	28	17
EG8-3/8B	8	M14x1.5	3/8	28	19
EG10-1/8B	10	M16x1.5	1/8	24	17
EG10-1/4B	10	M16x1.5	1/4	28	19
EG10-3/8B	10	M16x1.5	3/8	28	19
EG10-1/2B	10	M16x1.5	1/2	28	24
EG12x15-1/8B	12	M12x1.5	1/8	23	14
EG12-1/4B	12	M18x1.5	1/4	28	19
EG12x15-1/4B	12	M12x1.5	1/4	28	14
EG15-3/8B	15	M22x1.5	3/8	34	24
EG15-1/2B	15	M22x1.5	1/2	34	24
EG18-1/2B	18	M26x1.5	1/2	38	27
EG18-3/4B	18	M26x1.5	3/4	38	27

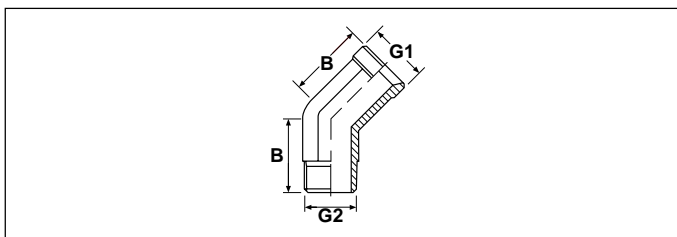
Standard material: brass

Material: without suffix = zinc plated - yellow chromated mild steel
 BK = Brass without plastic ring
 B = Brass

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM
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Push-Lok® Hoses and fittings

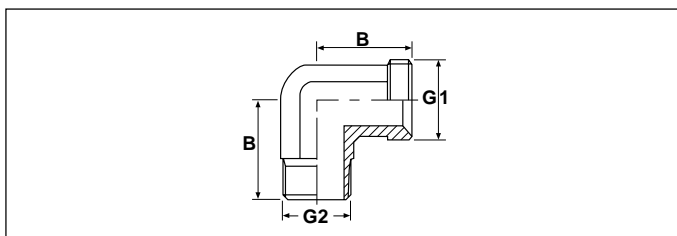
EV - 45° Elbow Adaptor - Metric / BSP Taper



Part Number	Tube O.D. mm	Thread		B mm
		G1 metric	G2 BSP	
EV6-1/8B	6	M12x1	1/8	20
EV6-1/4B	6	M12x1	1/4	20
EV8-1/4B	8	M14x1.5	1/4	27
EV8-3/8B	8	M14x1.5	3/8	27
EV10-1/4B	10	M16x1.5	1/4	27
EV10-3/8B	10	M16x1.5	3/8	27
EV15-1/2B	15	M22x1.5	1/2	30

Standard material: brass

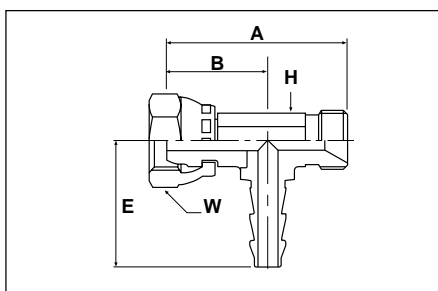
EW - 90° Elbow Adaptor - Metric / BSP Taper



Part Number	Tube O.D. mm	Thread		B mm
		G1 metric	G2 BSP	
EW6-1/8B	6	M12x1	1/8	20
EW6-1/4B	6	M12x1	1/4	20
EW8-1/4B	8	M14x1.5	1/4	27
EW8-3/8B	8	M14x1.5	3/8	27
EW10-1/4B	10	M16x1.5	1/4	27
EW10-3/8B	10	M16x1.5	3/8	27
EW12x15-1/8B	12	M12x1.5	1/8	20
EW12x15-1/4B	12	M12x1.5	1/4	20
EW15-1/2B	15	M22x1.5	1/2	30

Standard material: brass

DP - Metric Swivel Female Tee / Male Stud



Part Number	Hose I.D.				Thread metric	A mm	B mm	E mm	H mm	W mm
	DN	Inch	Size	mm						
DP-6-6-4BK	6	1/4	-4	6.3	M12x1	43	24	30	11	14
DP-8-8-4BK	6	1/4	-4	6.3	M14x1.5	43	24	30	11	14
DP-10-10-6BK	10	3/8	-6	9.5	M16x1.5	48	26	34	13	19
DP-15-15-8BK	12	1/2	-8	12.7	M22x1.5	58	32	42	17	27

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
 BK = Brass without plastic ring
 B = Brass

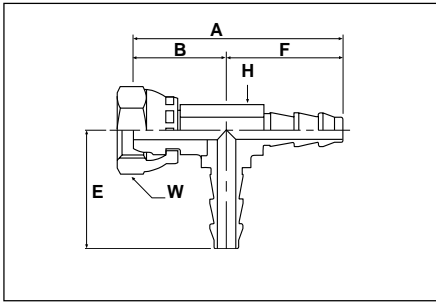
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

Only items priced in current price list are carried in stock.

Dimensions shown may be changed at any time without prior notice.

Push-Lok® Hoses and fittings

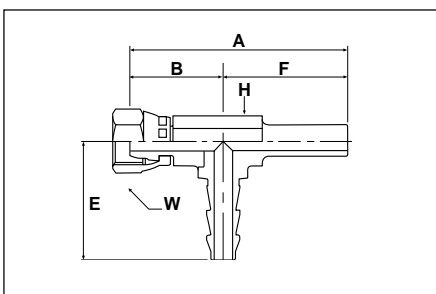
DR - Metric Swivel Female Tee



Part Number	Hose-I.D.				Thread metric	A mm	B mm	E mm	F mm	H mm	W mm
	DN	Inch	Size	mm							
DR-6-4-4BK	6	1/4	-4	6.3	M12x1	54	24	30	30	11	14
DR-10-6-6BK	10	3/8	-6	9.5	M16x1.5	59	25	34	34	13	19
DR-15-8-8BK	12	1/2	-8	12.7	M22x1.5	74	32	42	42	17	27

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

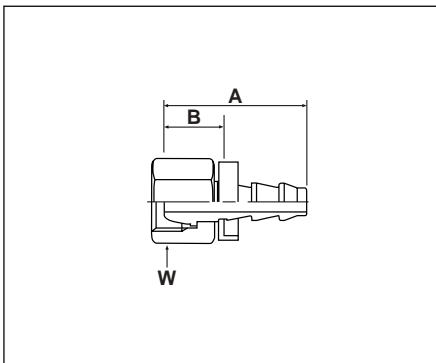
DS - Metric Swivel Female Tee / Standpipe



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	E mm	F mm	H mm	W mm
	DN	Inch	Size	mm								
DS-6-6-4BK	6	1/4	-4	6.3	M12x1	6	56	24	30	32	11	14
DS-6-8-4BK	6	1/4	-4	6.3	M12x1	8	56	24	30	32	11	14
DS-10-10-6BK	10	3/8	-6	9.5	M16x1.5	10	58	25	34	33	13	19
DS-10-12-6BK	10	3/8	-6	9.5	M16x1.5	12	58	25	34	33	13	19
DS-15-15-8BK	12	1/2	-8	12.7	M22x1.5	15	72	32	42	40	17	27

Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

92 - BSP Swivel Female



Part Number	Hose-I.D.				BSP thread	A mm	B mm	W mm
	DN	Inch	Size	mm				
39282-4-4	6	1/4	-4	6.3	1/4x19	33	14	17
39282-4-4C	6	1/4	-4	6.3	1/4x19	33	14	19
39282-6-6	10	3/8	-6	9.5	3/8x19	37	14	19
39282-8-8	12	1/2	-8	12.7	1/2x14	42	15	27
39282-8-8C	12	1/2	-8	12.7	1/2x14	43	17	27
39282-10-10	16	5/8	-10	15.9	5/8x14	53	16	30
39282-10-10B	16	5/8	-10	15.9	5/8x14	55	18	30
39282-12-12	20	3/4	-12	19.0	3/4x14	58	21	32
39282-12-12C	20	3/4	-12	19.1	3/4x14	56	19	32

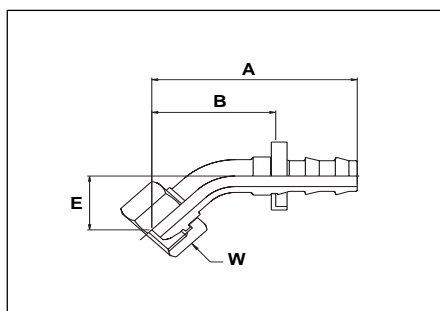
Standard nipples are stocked without plastic collar. If you need a collar, delete K from the part number. B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 C = Stainless Steel

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM
Only items priced in current price list are carried in stock.
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Push-Lok® Hoses and fittings

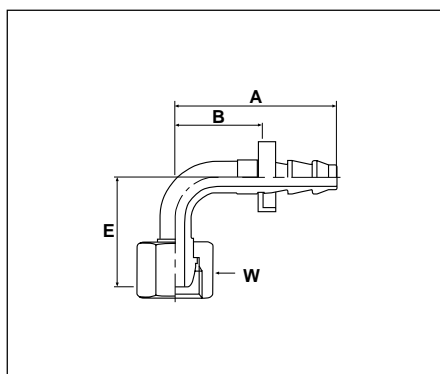
B1 - BSP Swivel Female 45° Elbow



Part Number	Hose-I.D.				BSP thread	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
3B182-4-4	6	1/4	-4	6.3	1/4x19	51	32	16	17
3B182-6-6	10	3/8	-6	9.5	3/8x19	69	47	17	19
3B182-8-8	12	1/2	-8	12.7	1/2x14	68	41	19	27
3B182-10-8	12	1/2	-8	12.7	5/8x14	74	42	19	30
3B182-10-10	16	5/8	-10	15.9	5/8x14	81	45	21	30
3B182-12-12	20	3/4	-12	19.0	3/4x14	92	55	27	32
3B182-16-16-K	25	1	-16	25.4	1x11	106	68	31	41

B and BK parts have brass nipples and steel nuts.

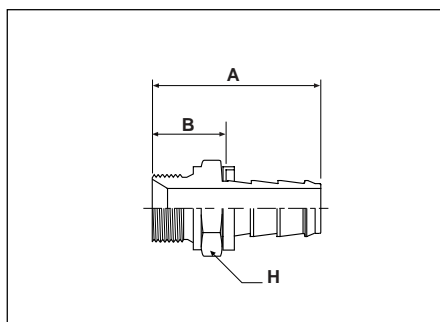
B2 - BSP Swivel Female 90° Elbow



Part Number	Hose-I.D.				BSP thread	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
3B282-4-4	6	1/4	-4	6.3	1/4x19	42	23	29	17
3B282-6-6	10	3/8	-6	9.5	3/8x19	49	27	33	19
3B282-8-8	12	1/2	-8	12.7	1/2x14	60	34	39	27
3B282-10-8	12	5/8	-8	12.7	5/8x14	58	32	40	30
3B282-10-10	16	5/8	-10	15.9	5/8x14	71	34	43	30
3B282-10-10B	16	5/8	-10	15.9	5/8x14	74	37	44	30
3B282-12-12	20	3/4	-12	19.1	3/4x14	83	47	53	32
3B282-12-12B	20	3/4	-12	19.1	3/4x14	83	47	53	32
3B282-12-12C	20	3/4	-12	19.1	3/4x14	83	47	53	32
3B282-16-16-K	25	1	-16	25.4	1x11	99	61	68	41

B and BK parts have brass nipples and steel nuts.

D9 - BSP Male Stud (DIN 3852 - Form A)



Part Number	Hose-I.D.				BSP thread	A mm	B mm	H mm
	DN	Inch	Size	mm				
3D982-2-4	6	1/4	-4	6.3	1/8x28	36	17	14
3D982-4-4	6	1/4	-4	6.3	1/4x19	41	23	19
3D982-4-6	10	3/8	-6	9.5	1/4x19	44	21	19
3D982-6-6	10	3/8	-6	9.5	3/8x19	45	23	22
3D982-8-8	12	1/2	-8	12.7	1/2x14	53	27	27
3D982-8-8B	12	1/2	-8	12.7	1/2x14	53	27	2
3D982-8-10	16	5/8	-10	15.9	1/2x14	62	25	27
3D982-10-10	16	5/8	-10	15.9	5/8x14	65	28	30
3D982-12-12	20	3/4	-12	19.1	3/4x14	65	28	32

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 C = Stainless Steel
 K = Without plastic ring

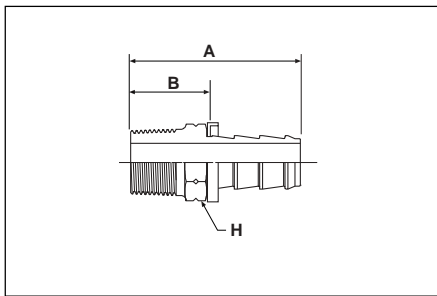
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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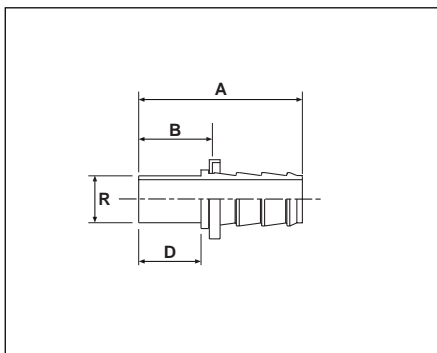
Push-Lok® Hoses and fittings

91 - BSP Taper Male



Part Number	Hose-I.D.				BSP thread	A mm	B mm	H mm
	DN	Inch	Size	mm				
39182-2-4B	6	1/4	-4	6.3	1/8x28	37	18	12
39182-4-4B	6	1/4	-4	6.3	1/4x19	40	21	14
39182-4-6B	10	3/8	-6	9.5	1/4x19	44	21	14
39182-6-6B	10	3/8	-6	9.5	3/8x19	45	22	19
39182-6-8B	12	1/2	-8	12.7	3/8x19	49	22	19
39182-8-8B	12	1/2	-8	12.7	1/2x14	55	29	22
39182-8-10B	16	5/8	-10	15.9	1/2x14	65	28	22
39182-12-10B	16	5/8	-10	15.9	3/4x14	68	31	27
39182-12-12B	20	3/4	-12	19.1	3/4x14	68	31	27

34 - Inch Standpipe



Part Number	Hose-I.D.				Tube O.D. inch	A mm	B mm	D mm
	DN	Inch	Size	mm				
33482-3-4B	6	1/4	-4	6.3	3/16	41	22	19
33482-4-4B	6	1/4	-4	6.3	1/4	48	29	26
33482-5-4B	6	1/4	-4	6.3	5/16	50	30	27
33482-6-6B	10	3/8	-6	9.5	3/8	57	34	31
33482-8-8B	12	1/2	-8	12.7	1/2	55	28	25
33482-10-10B	16	5/8	-10	15.9	5/8	67	30	25
33482-12-12B	20	3/4	-12	19.1	3/4	67	30	25

Not recommended for new construction. Instead use 06 or JC.

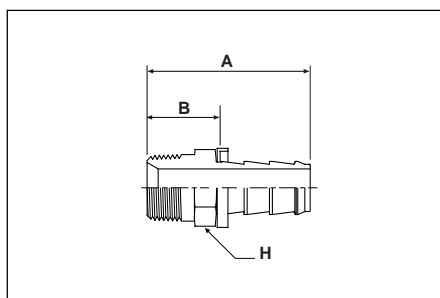
Material: without suffix = zinc plated - yellow chromated mild steel
B = Brass

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

Only items priced in current price list are carried in stock.

Dimensions shown may be changed at any time without prior notice.

01 - NPTF Male Pipe



Part Number	Hose-I.D.				NPTF thread	A mm	B mm	H inch (mm)
	DN	Inch	Size	mm				
30182-2-4	6	1/4	-4	6.3	1/8x27	35	16	7/16
30182-2-4B	6	1/4	-4	6.3	1/8x27	35	16	7/16
30182-2-4C	6	1/4	-4	6.3	1/8x27	35	16	7/16
30182-4-4	6	1/4	-4	6.3	1/4x18	40	21	9/16
30182-4-4B	6	1/4	-4	6.3	1/4x18	40	21	9/16
30182-4-4C	6	1/4	-4	6.3	1/4x18	40	21	9/16
30182-4-4-SM	6	1/4	-4	6.3	1/4x18	40	21	14
30182-6-4	6	1/4	-4	6.3	3/8x18	42	22	11/16
30182-6-4B	6	1/4	-4	6.3	3/8x18	42	22	11/16
30182-6-4C	6	1/4	-4	6.3	3/8x18	42	22	11/16
30182-8-4	6	1/4	-4	6.3	1/2x14	48	29	7/8
30182-2-6	10	3/8	-6	9.5	1/8x27	39	16	1/2
30182-4-6	10	3/8	-6	9.5	1/4x18	45	22	9/16
30182-4-6B	10	3/8	-6	9.5	1/4x18	45	22	9/16
30182-6-6	10	3/8	-6	9.5	3/8x18	45	22	11/16
30182-6-6B	10	3/8	-6	9.5	3/8x18	45	22	11/16
30182-6-6C	10	3/8	-6	9.5	3/8x18	45	22	11/16
30182-8-6	10	3/8	-6	9.5	1/2x14	52	29	7/8
30182-8-6B	10	3/8	-6	9.5	1/2x14	52	29	7/8
30182-4-8	12	1/2	-8	12.7	1/4x18	49	22	5/8
30182-6-8	12	1/2	-8	12.7	3/8x18	49	22	11/16
30182-6-8B	12	1/2	-8	12.7	3/8x18	49	22	11/16
30182-8-8	12	1/2	-8	12.7	1/2x14	55	29	7/8
30182-8-8B	12	1/2	-8	12.7	1/2x14	55	29	7/8
30182-8-8C	12	1/2	-8	12.7	1/2x14	55	29	7/8
30182-12-8	12	1/2	-8	12.7	3/4x14	56	29	1-1/16
30182-12-8B	12	1/2	-8	12.7	3/4x14	56	29	1-1/16
30182-8-10	16	5/8	-10	15.9	1/2x14	66	29	7/8
30182-8-10B	16	5/8	-10	15.9	1/2x14	66	29	7/8
30182-12-10	16	5/8	-10	15.9	3/4x14	66	29	1-1/16
30182-8-12	20	3/4	-12	19.1	1/2x14	66	29	7/8
30182-8-12B	20	3/4	-12	19.1	1/2x14	66	29	7/8
30182-12-12	20	3/4	-12	19.1	3/4x14	66	29	1-1/16
30182-12-12B	20	3/4	-12	19.1	3/4x14	66	29	1-1/16

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 C = Stainless Steel
 SM = Metric Hexagon

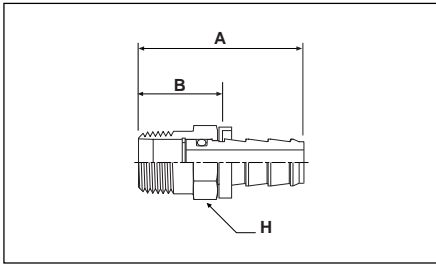
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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Push-Lok® Hoses and fittings

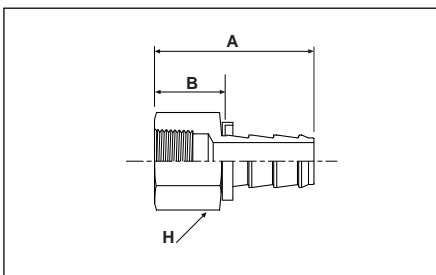
13 - NPTF Swivel Male Pipe



Part Number	Hose-I.D.				NPTF thread	A mm	B mm	H inch
	DN	Inch	Size	mm				
31382-4-4	6	1/4	-4	6.3	1/4x18	41	22	9/16
31382-6-6	10	3/8	-6	9.5	3/8x18	45	23	11/16
31382-8-8	12	1/2	-8	12.7	1/2x14	56	29	7/8
31382-12-12	20	3/4	-12	19.1	3/4x14	94	58	1-1/4

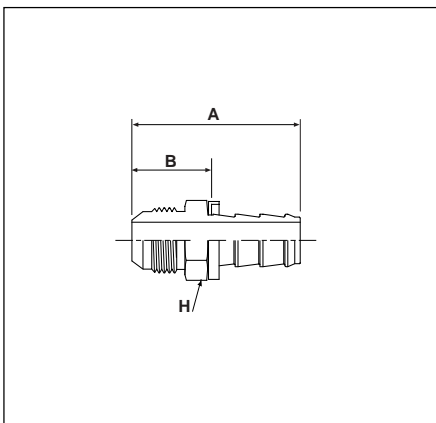
Note: This fitting allows for minor movement under pressure to relieve the torsion on hose, but it is not to be used for continuous or extreme swiveling.
 Note: O-ring is not compatible with Phosphate Ester Fluids.

02 - NPTF Female Pipe



Part Number	Hose-I.D.				NPTF thread	A mm	B mm	H inch (mm)
	DN	Inch	Size	mm				
30282-4-4B	6	1/4	-4	6.3	1/4x18	40	21	3/4
30282-6-6B	10	3/8	-6	9.5	3/8x18	46	23	7/8
30282-6-6C-SM	10	3/8	-6	9.5	3/8x18	46	24	22
30282-8-8B	12	1/2	-8	12.7	1/2x14	55	28	1-1/16

03 - JIC 37° Male



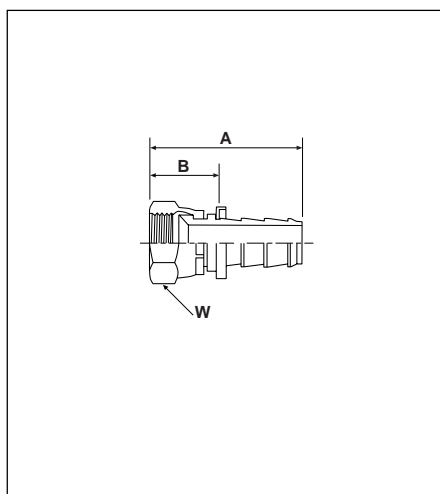
Part Number	Hose-I.D.				UNF thread	A mm	B mm	H inch
	DN	Inch	Size	mm				
30382-4-4	6	1/4	-4	6.3	7/16x20	40	21	1/2
30382-4-4B	6	1/4	-4	6.3	7/16x20	40	21	1/2
30382-4-4C	6	1/4	-4	6.3	7/16x20	40	21	1/2
30382-5-4	6	1/4	-4	6.3	1/2x20	40	21	9/16
30382-5-4B	6	1/4	-4	6.3	1/2x20	40	21	9/16
30382-6-6	10	3/8	-6	9.5	9/16x18	45	22	5/8
30382-6-6B	10	3/8	-6	9.5	9/16x18	45	22	5/8
30382-8-8	12	1/2	-8	12.7	3/4x16	52	26	3/4
30382-8-8B	12	1/2	-8	12.7	3/4x16	52	26	3/4
30382-12-12	20	3/4	-12	19.1	1-1/16x12	69	32	1-1/8
30382-12-12B	20	3/4	-12	19.1	1-1/16x12	69	32	1-1/8
30382-12-12C	20	3/4	-12	19.1	1-1/16x12	69	32	1-1/8

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 C = Stainless Steel
 SM = Metric Hexagon

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM
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Push-Lok® Hoses and fittings

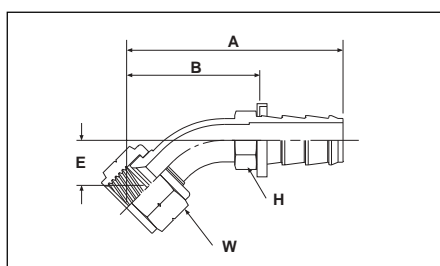
06/68 - Swivel Female - 06 JIC - 37° - 68 JIC - 37° and SAE - 45°



Part Number	Hose-I.D.				UNF thread	A mm	B mm	W inch (mm)
	DN	Inch	Size	mm				
30682-4-4	6	1/4	-4	6,3	7/16x20	39	19	9/16
30682-4-4B	6	1/4	-4	6,3	7/16x20	39	19	9/16
30682-4-4C	6	1/4	-4	6,3	7/16x20	39	19	9/16
30682-5-4	6	1/4	-4	6,3	1/2x20	40	21	5/8
30682-5-4B	6	1/4	-4	6,3	1/2x20	40	21	5/8
30682-6-4B	6	1/4	-4	6,3	9/16x18	42	22	11/16
30682-5-6B	10	3/8	-6	9,5	1/2x20	44	21	5/8
30682-6-6	10	3/8	-6	9,5	9/16x18	46	22	11/16
30682-6-6B	10	3/8	-6	9,5	9/16x18	46	22	11/16
30682-6-6C	10	3/8	-6	9,5	9/16x18	46	22	11/16
30682-8-6B	10	3/8	-6	9,5	3/4x16	47	24	7/8
36882-8-6-SM	10	3/8	-6	9,5	3/4x16	48	25	22
36882-8-6C-SM	10	3/8	-6	9,5	3/4x16	48	25	22
30682-4-8B	12	1/2	-8	12,7	7/16x20	46	19	9/16
30682-6-8	12	1/2	-8	12,7	9/16x18	50	22	11/16
30682-6-8B	12	1/2	-8	12,7	9/16x18	50	22	11/16
30682-8-8	12	1/2	-8	12,7	3/4x16	51	24	7/8
30682-8-8B	12	1/2	-8	12,7	3/4x16	51	24	7/8
30682-8-8C	12	1/2	-8	12,7	3/4x16	51	24	7/8
30682-10-8B	12	1/2	-8	12,7	7/8x14	52	25	1
30682-12-8	12	1/2	-8	12,7	1-1/16x12	57	30	1-1/4
30682-12-8B	12	1/2	-8	12,7	1-1/16x12	57	30	1-1/4
30682-8-10	16	5/8	-10	15,9	3/4x16	61	24	7/8
30682-10-10	16	5/8	-10	15,9	7/8x14	62	25	1
30682-10-10B	16	5/8	-10	15,9	7/8x14	62	25	1
36882-10-10C-SM	16	5/8	-10	15,9	7/8x14	65	28	27
30682-12-12	20	3/4	-12	19,1	1-1/16x12	67	30	1-1/4
30682-12-12B	20	3/4	-12	19,1	1-1/16x12	67	30	1-1/4
30682-12-12C	20	3/4	-12	19,1	1-1/16x12	67	30	1-1/4
30682-14-12	20	3/4	-12	19,1	1-3/16x12	68	31	1-3/8
30682-14-12B-SM	20	3/4	-12	19,1	1-3/16x12	68	31	36

B and BK parts have brass nipples and steel nuts.

37 - JIC 37° Swivel Female 45° Elbow



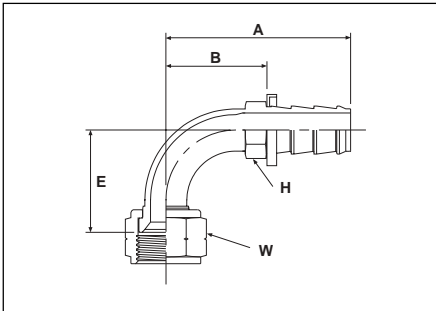
Part Number	Hose-I.D.				UNF thread	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
33782-4-4	6	1/4	-4	6,3	7/16x20	39	20	8	9/16
33782-6-6	10	3/8	-6	9,5	9/16x18	53	30	10	11/16
33782-8-8	12	1/2	-8	12,7	3/4x16	54	35	14	7/8

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 C = Stainless Steel
 SM = Metric Hexagon

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM
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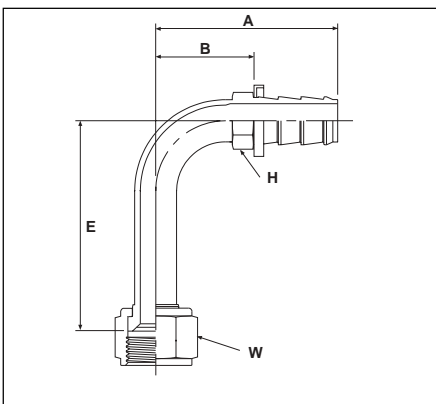
Push-Lok® Hoses and fittings

39 - JIC 37° Swivel Female 90° Elbow (Short)



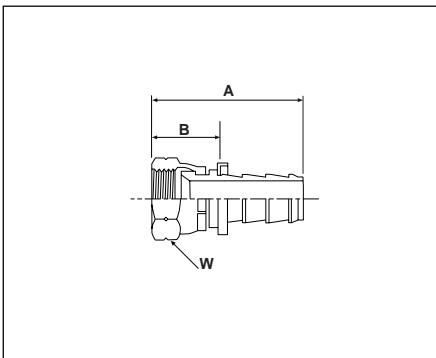
Part Number	Hose-I.D.				UNF thread	A mm	B mm	E mm	W inch (mm)
	DN	Inch	Size	mm					
33982-4-4	6	1/4	-4	6.3	7/16x20	39	20	17	5/8
33982-6-6	10	3/8	-6	9.5	9/16x18	50	28	22	11/16
33982-6-6C-SM	10	3/8	-6	9.5	9/16x18	49	27	22	17
33982-8-8	12	1/2	-8	12.7	3/4x16	59	33	28	7/8
33982-10-10	16	5/8	-10	15.9	7/8x14	74	37	31	1
33982-12-12	20	3/4	-12	19.1	1-1/16x12	84	46	46	1-1/4

41 - JIC 37° Swivel Female 90° Elbow (Extra Long)



Part Number	Hose-I.D.				UNF thread	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
34182-4-4	6	1/4	-4	6.3	7/16x20	39	20	46	14
34182-6-6	10	3/8	-6	9.5	9/16x18	50	27	55	18

08 - SAE 45° Swivel Female



Part Number	Hose-I.D.				UNF thread	A mm	B mm	W inch
	DN	Inch	Size	mm				
30882-4-4	6	1/4	-4	6.3	7/16x20	39	19	9/16
30882-4-4B	6	1/4	-4	6.3	7/16x20	39	19	9/16
30882-5-4	6	1/4	-4	6.3	1/2x20	40	21	5/8
30882-5-4B	6	1/4	-4	6.3	1/2x20	40	21	5/8
30882-6-6	10	3/8	-6	9.5	5/8x18	46	23	3/4
30882-6-6B	10	3/8	-6	9.5	5/8x18	46	23	3/4
30882-8-6B	10	3/8	-6	9.5	3/4x16	47	24	7/8
30882-6-8	12	1/2	-8	12.7	5/8x18	50	23	3/4
30882-8-8	12	1/2	-8	12.7	3/4x16	51	25	7/8
30882-8-8B	12	1/2	-8	12.7	3/4x16	51	25	7/8
30882-10-8B	12	1/2	-8	12.7	7/8x14	54	28	1
30882-10-10	16	5/8	-10	15.9	7/8x14	65	28	1
30882-10-10B	16	5/8	-10	15.9	7/8x14	65	28	1
30882-12-12	20	3/4	-12	19.1	1-1/16x14	67	30	1-1/4
30882-12-12B	20	3/4	-12	19.1	1-1/16x14	67	30	1-1/4

B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
 C = Stainless Steel
 SM = Metric Hexagon
 B = Brass

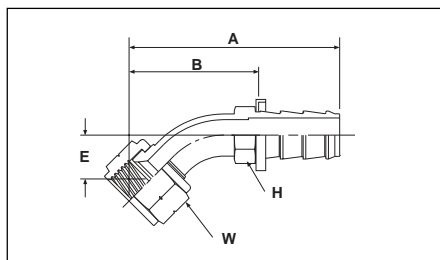
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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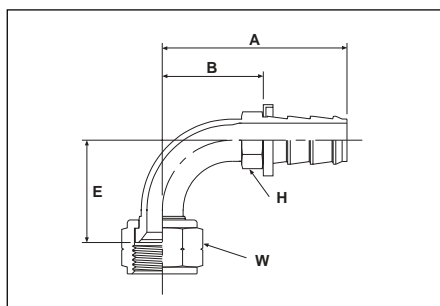
Push-Lok® Hoses and fittings

77 - SAE 45° Swivel Female 45° Elbow



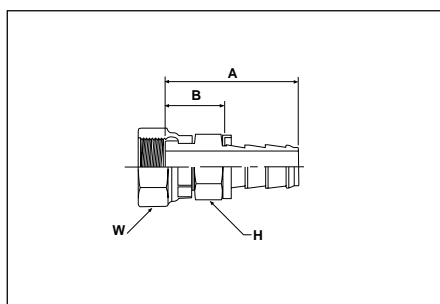
Part Number	Hose-I.D.				UNF thread	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
37782-4-4	6	1/4	-4	6.3	7/16x20	39	20	8	9/16
37782-6-6	10	3/8	-6	9.5	5/8x18	53	30	10	13/16
37782-8-8	12	1/2	-8	12.7	3/4x16	54	35	14	7/8

79 - SAE 45° Swivel Female 90° Elbow



Part Number	Hose-I.D.				UNF thread	A mm	B mm	E mm	W mm
	DN	Inch	Size	mm					
37982-4-4	6	1/4	-4	6.3	7/16x20	39	20	17	5/8
37982-6-6	10	3/8	-6	9.5	5/8x18	50	28	22	3/4
37982-8-8	12	1/2	-8	12.7	3/4x16	59	33	28	7/8

JC - ORFS Swivel Female (Short)



Part Number	Hose-I.D.				UNF thread	A mm	B mm	H inch mm	W inch mm
	DN	Inch	Size	mm					
3JC82-4-4	6	1/4	-4	6.3	9/16x18	36	17	9/16	11/16
3JC82-6-6	10	3/8	-6	9.5	11/16x16	40	18	11/16	13/16
3JC82-6-6-SM	10	3/8	-6	9.5	11/16x16	41	18	19	22
3JC82-8-6	10	3/8	-6	9.5	13/16x16	42	19	13/16	15/16
3JC82-8-8	12	1/2	-8	12.7	13/16x16	46	19	13/16	15/16
3JC82-8-10	16	5/8	-10	15.9	13/16x16	57	21	3/4	15/16
3JC82-10-10	16	5/8	-10	15.9	1x14	61	24	15/16	1-1/8
3JC82-10-12	20	3/4	-12	19.1	1x14	61	24	1	1-1/8
3JC82-12-12	20	3/4	-12	19.1	1-3/16x12	67	30	1-1/8	1-3/8

Material: without suffix = zinc plated - yellow chromated mild steel
SM = Metric Hexagon

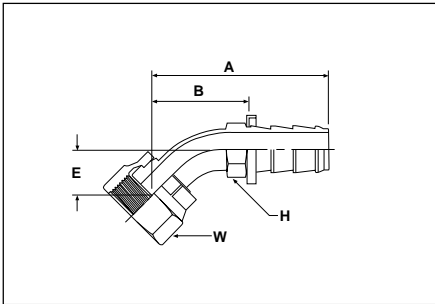
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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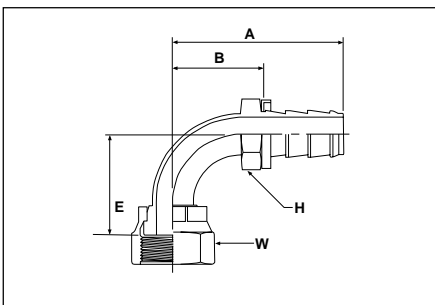
Push-Lok® Hoses and fittings

J7 - ORFS Swivel Female 45° Elbow



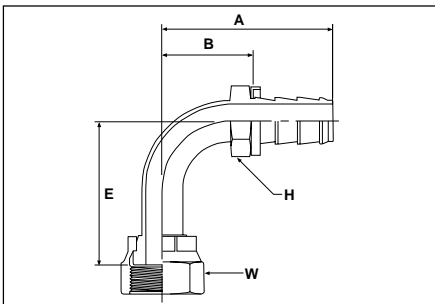
Part Number	Hose-I.D.			UNF thread	A mm	B mm	E mm	W inch	
	DN	Inch	Size						
3J782-4-4	6	1/4	-4	6.3	9/16x18	49	30	10	11/16
3J782-6-6	10	3/8	-6	9.5	11/16x16	55	33	11	13/16
3J782-8-6	10	3/8	-6	9.5	13/16x16	65	41	15	15/16
3J782-8-8	12	1/2	-8	12.7	13/16x16	67	41	15	15/16
3J782-10-10	16	5/8	-10	15.9	1x14	79	43	16	1-1/8
3J782-12-12	20	3/4	-12	19.1	1-3/16x12	82	45	21	1-3/8

J9 - ORFS Swivel Female 90° Elbow



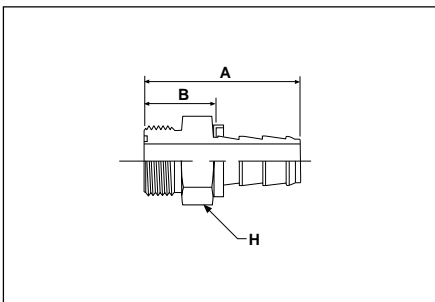
Part Number	Hose-I.D.			UNF thread	A mm	B mm	E mm	W inch	
	DN	Inch	Size						
3J982-4-4	6	1/4	-4	6.3	9/16x18	49	30	21	11/16
3J982-6-6	10	3/8	-6	9.5	11/16x16	52	29	23	13/16
3J982-8-6	10	3/8	-6	9.5	13/16x16	56	33	32	15/16
3J982-6-8	12	1/2	-8	12.7	11/16x16	55	29	23	13/16
3J982-8-8	12	1/2	-8	12.7	13/16x16	60	34	29	15/16
3J982-10-10	16	5/8	-10	15.9	1x14	72	35	32	1-1/8
3J982-12-12	20	3/4	-12	19.1	1-3/16x12	79	42	48	1-3/8

J1 - ORFS Swivel Female 90° Elbow (Extra Long)



Part Number	Hose-I.D.			UNF thread	A mm	B mm	E mm	W inch	
	DN	Inch	Size						
3J182-4-4	6	1/4	-4	6.3	9/16x18	44	25	46	11/16
3J182-6-6	10	3/8	-6	9.5	11/16x16	54	31	54	13/16
3J182-8-8	12	1/2	-8	12.7	13/16x16	61	35	64	15/16

JM - ORFS Male



Part Number	Hose-I.D.			UNF thread	A mm	B mm	H inch	
	DN	Inch	Size					
3JM82-8-8	12	1/2	-8	12.7	13/16x16	48	22	9/16
3JM82-12-12	20	3/4	-12	19.1	1-3/16x12	68	31	1-1/8

JM fittings are supplied without O-Ring. For fittings with O-Ring please replace JM by J0.
Fittings with standard O-Ring seals can be used for temperatures from -30 °C up to +105 °C.
Find O-Rings in section I. Special O-Rings are available on request.

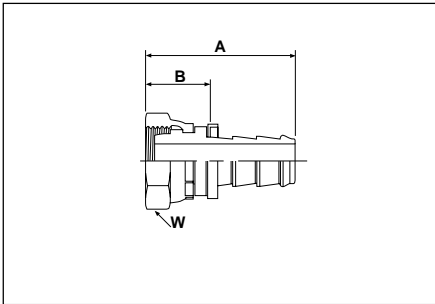
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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Push-Lok® Hoses and fittings

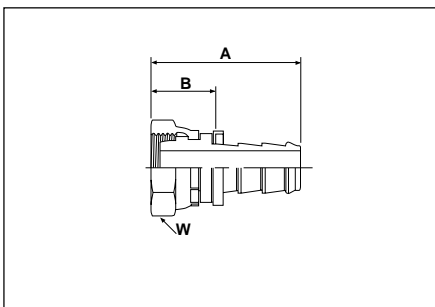
FB - French Compression Swivel Female



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
3FB82-6-4B	6	1/4	-4	6.3	M10x1	6	35	16	14
3FB82-8-4B	6	1/4	-4	6.3	M12x1	8	31	12	14
3FB82-10-4B	6	1/4	-4	6.3	M16x1.5	10	31	12	19
3FB82-10-6B	10	3/8	-6	9.5	M16x1.5	10	34	12	19
3FB82-14-6B	10	3/8	-6	9.5	M20x1.5	14	35	12	24
3FB82-14-8B	12	1/2	-8	12.7	M20x1.5	14	38	12	24
3FB82-18-8B	12	1/2	-8	12.7	M24x1.5	18	40	14	30
3FB82-18-10B	16	5/8	-10	15.9	M24x1.5	18	50	15	30
3FB82-22-12B	20	3/4	-12	19.1	M30x1.5	22	53	17	36
3FB82-28-16B	25	1	-16	25.4	M36x1.5	28	52	15	42
3FB82-28-16BK	25	1	-16	25.4	M36x1.5	28	52	14	42

B and BK parts have brass nipples and steel nuts.

FF - Metru-Lok Swivel Female



Part Number	Hose-I.D.				Thread metric	Tube O.D. mm	A mm	B mm	W mm
	DN	Inch	Size	mm					
3FF82-6-4B	6	1/4	-4	6.3	M10x1	6	36	16	14
3FF82-8-4B	6	1/4	-4	6.3	M12x1	8	31	12	14
3FF82-10-6B	10	3/8	-6	9.5	M14x1	10	35	12	17
3FF82-12-6B	10	3/8	-6	9.5	M16x1	12	35	12	19
3FF82-14-8B	12	1/2	-8	12.7	M18x1	14	38	12	22
3FF82-16-8B	12	1/2	-8	12.7	M22x1.5	16	38	12	24
3FF82-18-10B	16	5/8	-10	15.9	M24x1.5	18	51	15	27
3FF82-22-12B	20	3/4	-12	19.1	M28x1.5	22	51	15	32

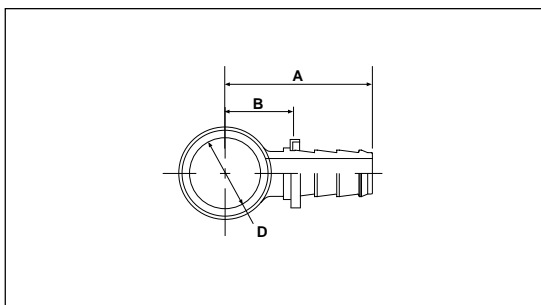
B and BK parts have brass nipples and steel nuts.

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 BK = Brass without plastic ring

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM
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Push-Lok® Hoses and fittings

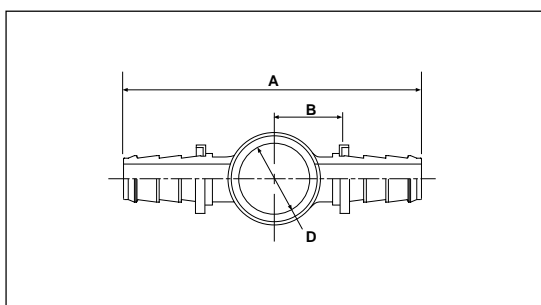
49 - Banjo Union DIN 7642



Part Number	Hose-I.D.				Diameter D mm	A mm	B mm
	DN	Inch	Size	mm			
34982-8-4	6	1/4	-4	6.3	8	36	17
34982-10-4	6	1/4	-4	6.3	10	38	19
34982-12-4	6	1/4	-4	6.3	12	40	21
34982-14-4	6	1/4	-4	6.3	14	42	23
34982-10-6	10	3/8	-6	9.5	10	42	19
34982-12-6	10	3/8	-6	9.5	12	44	21
34982-14-6	10	3/8	-6	9.5	14	47	24
34982-14-6C	10	3/8	-6	9.5	14	47	24
34982-16-6	10	3/8	-6	9.5	16	49	26
34982-17-6	10	3/8	-6	9.5	17	49	26
34982-17-6C	10	3/8	-6	9.5	17	49	26
34982-14-8	12	1/2	-8	12.7	14	51	25
34982-18-8	12	1/2	-8	12.7	18	55	28
34982-22-8	12	1/2	-8	12.7	22	58	31
34982-22-10	16	5/8	-10	15.9	22	68	32
34982-26-12	20	3/4	-12	19.1	26	73	37

Find banjo bolts on page O29.

DE - Double Banjo Union



Part Number	Hose-I.D.				Diameter D mm	A mm	B mm
	DN	Inch	Size	mm			
3DE82-8-4	6	1/4	-4	6.3	8	37	18
3DE82-10-4	6	1/4	-4	6.3	10	42	23
3DE82-12-4	6	1/4	-4	6.3	12	45	24
3DE82-10-6	10	3/8	-6	9.5	10	46	23
3DE82-12-6	10	3/8	-6	9.5	12	47	24
3DE82-14-6	10	3/8	-6	9.5	14	49	25
3DE82-16-6	10	3/8	-6	9.5	16	52	28

Find banjo bolts on page O29.

Material: without suffix = zinc plated - yellow chromated mild steel
C = Stainless Steel

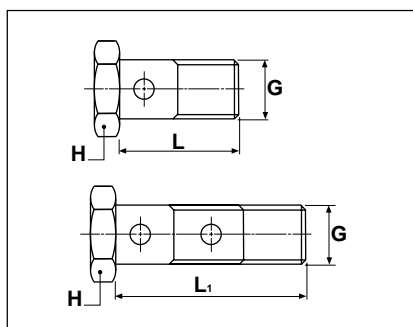
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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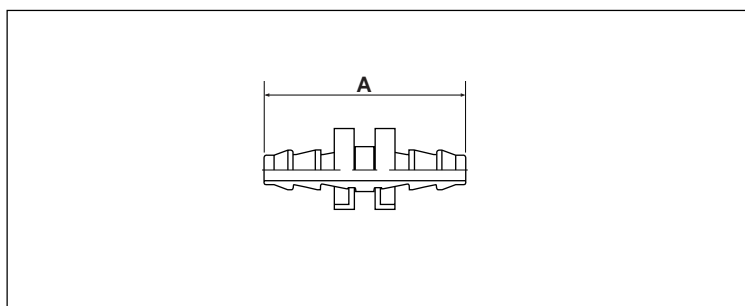
Push-Lok® Hoses and fittings

AM/AR - Banjo Bolt (DIN 7643)



Part Number single	Part Number double	I.D. Banjo mm	G Thread metric / inch	L Single mm	L1 Double mm	H mm
AM3	A2M3	8	M8x1	17	26	12
AM4	A2M4	10	M10x1	19	30	14
AR4		10	1/8	19		14
AM6	A2M6	12	M12x1.5	26	38	17
AM8	A2M8	14	M14x1.5	26	41	19
AR8		14	1/4	26		19
AR-08C			1/4	26		19
AM10	A2M10	16	M16x1.5	28	46	22
AR10		17	3/8	29		22
AM13		18	M18x1.5	32		24
AM16		22	M22x1.5	40		27
AR16		22	1/2	40		27
AM20		26	M26x1.5	45		32

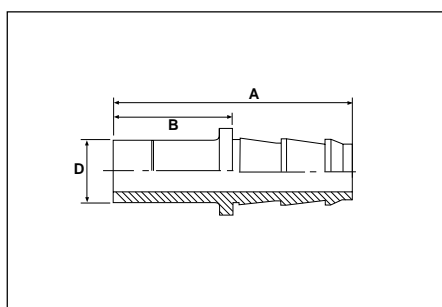
82 - Push-Lok® Union



Part Number	Hose-I.D.			A mm
	DN	Inch	Size	
38282-4-4B	6	1/4	-4	6.3
38282-6-6B	10	3/8	-6	9.5
38282-8-8	12	1/2	-8	12.7
38282-10-10	16	5/8	-10	15.9
38282-10-10B	16	5/8	-10	15.9
38282-12-12	20	3/4	-12	19.0
38282-12-12B	20	3/4	-12	19.1

Standard material: brass

VW - Push-in Connector (VW standard 39-V-16619)



Part Number	Hose-I.D.				Tube O.D. MM	A mm	B mm	D mm
	DN	Inch	Size	mm				
3VW82-6-4BK	6	1/4	-4	6.3	6	42	23	5
3VW82-8-4BK	6	1/4	-4	6.3	8	44	24	5
3VW82-8-4CK	6	1/4	-4	6.3	8	44	24	5
3VW82-10-6BK	10	3/8	-6	9.5	10	49	26	8
3VW82-14-8BK	12	1/2	-8	12.7	14	56	29	11

Standard material: brass

Material: without suffix = zinc plated - yellow chromated mild steel
 B = Brass
 BK = Brass without plastic ring
 C = Stainless steel
 K = Without plastic ring

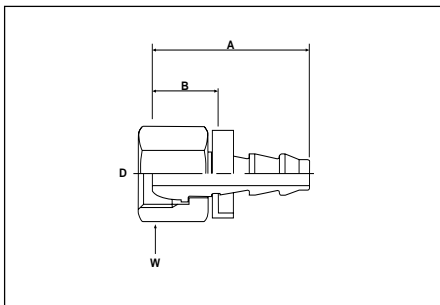
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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Push-Lok® Hoses and fittings

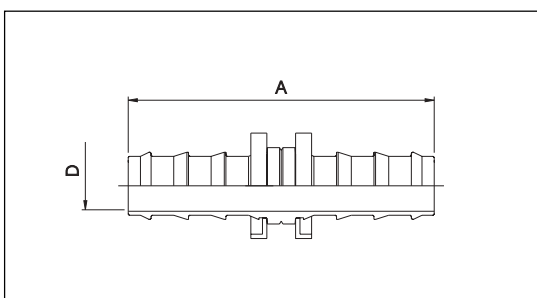
VW121 - BSP Swivel Female (VW standard 39-V-16631)



Part Number	Hose-I.D.				BSP thread	A mm	B mm	D mm	W mm
	DN	Inch	Size	mm					
VW121-8937*	6	1/4	-4	6.3	1/4x19	32	13	5	17
VW121-8938**	10	3/8	-6	9.5	3/8x19	38	15	7,5	19
VW121-8939**	14	1/2	-8	12.7	1/2x14	46	19	11	27
VW121-8940**	16	5/8	-10	15.9	3/4x14	58	21	14	32
VW121-8941**	20	3/4	-12	19.0	1x11	53	16	17	41

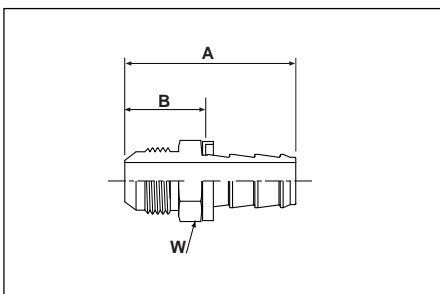
*stainless steel nipple, steel nut
**brass nipple, steel nut

VW39D - Push-in Connector (VW standard 39D-1401)



Part Number	Hose-I.D.				Tube O.D. mm	A mm	D mm
	DN	Inch	Size	mm			
VW39D-1401/1C			-1		4	46	5
VW39D-1401/2B	3	1/8	-2	3.2	6	55	8
VW39D-1401/3B	5	3/16	-3	4.8	8	64	11
VW39D-1401/4B	6	1/4	-4	6.3	10	84	14
38282-12-12B	20	3/4	-12	19.1	12	84	18

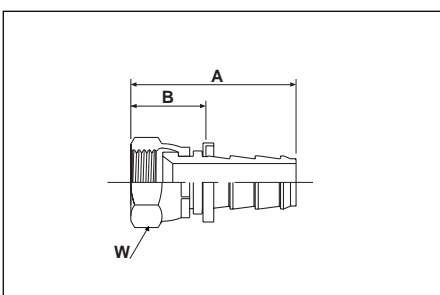
H898202 - Male (Ford standard UWR 003-03180)



Part Number	Hose-I.D.				Thread metric	A mm	B mm	W mm
	DN	Inch	Size	mm				
H898202	10	3/8	-6	9.5	M14x1.5	43	21	17

Standard material: brass

H897995 - Female (Ford standard UWR 003-03180)



Part Number	Hose-I.D.				Thread metric	A mm	B mm	W mm
	DN	Inch	Size	mm				
H897995	10	3/8	-6	9,5	M14x1.5	43	21	17

Standard material: brass

Material: without suffix = zinc plated - yellow chromated mild steel
B = Brass
C = Stainless Steel

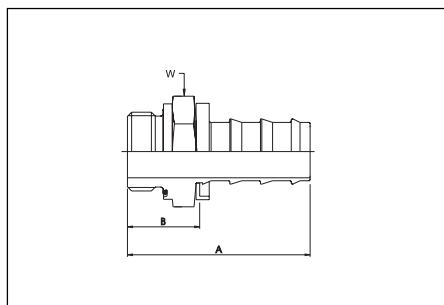
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

Only items priced in current price list are carried in stock.

Dimensions shown may be changed at any time without prior notice.

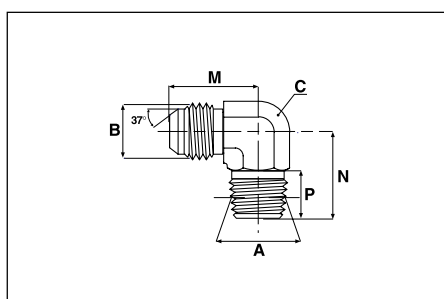
Push-Lok® Hoses and fittings

AF - Male BSP Parallel Pipe - Rigid - Straight (with O-ring Seal)



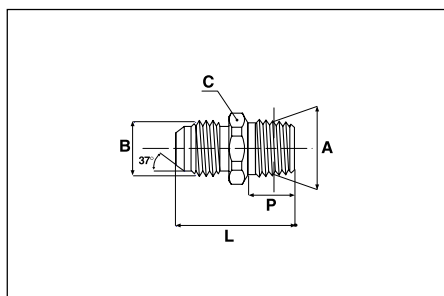
Part Number	Hose-I.D.			BSP thread	A mm	B mm	H inch	
	DN	Inch	Size mm					
3AF82-2-4B	6	1/4	-4	6.3	1/8x28	34	15	17
3AF82-4-4B	6	1/4	-4	6.3	1/4x19	39	20	19
3AF82-4-6B	10	3/8	-6	9.5	1/4x19	43	20	19
3AF82-6-6B	10	3/8	-6	9.5	3/8x19	46	23	22
3AF82-6-8B	12	1/2	-8	12.7	3/8x19	49	22	22
3AF82-8-8B	12	1/2	-8	12.7	1/2x14	53	26	27
3AF82-8-10B	16	5/8	-10	15.9	1/2x14	63	26	27

M14-4C3MX8BH22 - Male nipple 90° elbow (Ford standard UWR 003-04090)



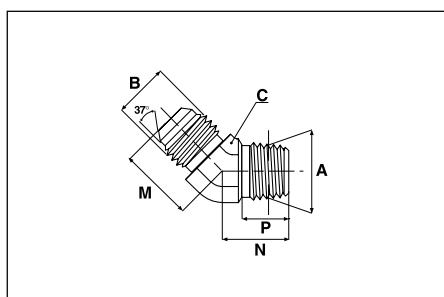
Part Number	A inch	B thread metric	C mm	M mm	N mm	P mm
M14-4C3MX8BH22	R 1/4	M14x1.5	14	25	22	12

M14-4F3MX8BL31 - Male nipple straight fitting (Ford standard UWR 003-04180)



Part Number	A inch	B thread metric	C mm	L mm	P mm
M14-4F3MX8BL31	R 1/4	M14x1.5	17	31	12

M14-4V3MX8BH17 - Male nipple 45° elbow (Ford standard UWR 003-04045)



Part Number	A inch	B thread metric	C mm	M mm	N mm	P mm
M14-4V3MX8BH17	R1/4	M14x1.5	14	18	17	12

Material: without suffix = zinc plated - yellow chromated mild steel
B = Brass

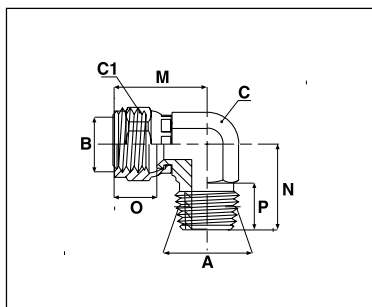
For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

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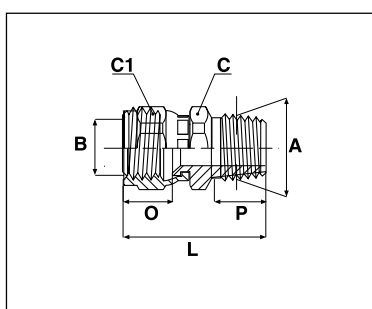
Push-Lok® Hoses and fittings

M14-4C63MX8BH22 - Male swivel nut 90° elbow (Ford standard UWR 003-03090)



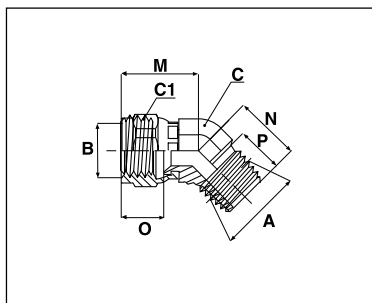
Part Number	A inch	B thread metric	C mm	C1 mm	M mm	N mm	O mm	P mm
M14-4C63MX8BH22	R 1/4	M14x1.5	14	17	24	22	11	12

M14-4F63MX8BL32 - Male swivel nut straight fitting (Ford standard UWR 003-03180)



Part Number	A inch	B thread metric	C mm	C1 mm	L mm	O mm	P mm
M14-4F63MX8BL32	R 1/4	M14x1.5	17	17	32	11	12

M14-4V63MX8BH17 - Male swivel nut 45° elbow (Ford standard UWR 003-03045)



Part Number	A inch	B thread metric	C mm	C1 mm	M mm	N mm	O mm	P mm
M14-4V63MX8BH17	R 1/4	M14x1.5	14	17	20	17	11	12

For hose types: 801 / 804 / 821 / 821FR / 831 / 836 / 837BM

Only items priced in current price list are carried in stock.

Dimensions shown may be changed at any time without prior notice.

Push-Lok Chemical Resistance

Medium	I	II	III	IV	V	STEEL	BRASS	SS
Acetic Acid	X	X	X	A	(7)	X	X	A
Acetone	X	X	X	A	A	A	A	A
Acetylene	X	X	X	X	(2)	-	-	-
Addinol okoptus HETG 32-68	A(4)	F(14)	-	-	-	A	A	A
Addinol okosynth HEES 46	F(4)	F(14)	-	-	-	A	A	A
AEROSHELL Turbine Oil 500	F(3)	F	X	A	X	A	A	A
Agip Arnica S46	A(3)	F(14)	-	-	-	A	A	A
Air (1,4)	A	A	A	A	A	A	A	A
Air (dry) (13)	F	F	X	A	A	A	A	A
Alcohol (Methanol-Ethanol)	F	F	F	F	F	F	A	A
Ammonium Chloride	A	A	A	A	A	X	X	X
Ammonium Hydroxide	F	F	F	A	A	F	X	A
Ammonium Nitrate	A	A	A	F	A	F	X	A
Ammonium Phosphate	A	A	A	A	A	X	X	F
Ammonium Sulfate	A	A	A	A	A	F	X	F
Amyl Alcohol	X	X	X	F	F	X	A	A
Anhydrous Ammonia	X	X	X	X	X	X	X	X
Aniline	X	X	X	F	A	A	X	A
Animal Fats	F(3)	F	X	F	F	(7)	(7)	A
Aral Vitam EHF 46	A(4)	A(14)	-	-	-	A	A	A
Aromatic 100,150	F(3)	F	X	-	X	A	A	A
Asphalt	X	F	X	F	X	X	(7)	A
ASTM #3 Oil	F	F	F	F	X	A	A	A
ATF-M	(3)	A	F	A	X	A	A	A
Automotive Brake Fluid	X	X	X	X	-	X	X	X
Avia Aviacub synthofluid	F(4)	A(14)	-	-	-	A	A	A
Avia hydraulik bio	A(4)	F(14)	-	-	-	A	A	A
Benzene, Benzol	X	X	X	F	X	A	A	A
Benzine	X	X	X	F	X	A	A	A
Borax	F(3)	F	F	F	A	F	A	A
Boric Acid	A	A	A	X	A	X	(7)	A
BP biohyd SE 46	(3)	F(14)	-	-	-	A	A	A
BP energol HLP-HM 68	A	A	A	F	X	A	A	A
Brayco 882	(3)	A	X	A	X	A	A	A
Brayco Micronic 776RP	(3)	A	F	F	X	A	A	A
Brayco Micronic 889	F(3)	F	X	-	X	A	A	A
Brine	F	F	F	A	A	X	F	(7)
Butane	F(2)	F	X	-	X	A	A	A
Butyl Alcohol, Butanol	F	F	F	F	F	F	F	A
Calcium Chloride	A	A	A	F	A	F	F	X
Calcium Hydroxide	A	A	A	A	A	A	A	A
Calcium Hypochlorite	X	X	X	A	A	X	(7)	X
Calibrating Fluid	A	A	A	A	X	A	A	A
Carbon Dioxide	F(7)	F	F	F	(7)	A	A	A
Carbon Disulfide	X	X	X	F	X	A	F	A
Carbon Monoxide (hot)	F	F	F	F	(7)	F	(7)	A
Carbon Tetrachloride	X	X	X	F	X	(7)	(7)	(7)
Carbonic Acid	F	F	F	X	F	X	X	F
Castor Oil	A	A	A	A	A	A	A	A
Castrol 5000	F(3)	F	X	A	X	A	A	A
Castrol BioTec Alpin 22	(3)	A(4)	-	-	-	A	A	A
Cellugard	A	A	A	-	A	A	A	A
Chevron Clarity AW 32, 46, 68	A	A	A	A	X	A	A	A
Chevron FLO-COOL 180	F	F	F	-	X	A	A	A
Chevron FR-8, 10, 13, 20	X	X	X	X	A	A	A	A
Chevron Hydraulic Oils AW MV 15, 32, 46, 68, 100	A	A	A	A	X	A	A	A
Chevron HyJet IV (9)	X	X	X	X	A	A	A	A
Citric Acid	(3)	A	F	X	A	X	(7)	(7)
Coolanol 15, 20, 25, 35, 45	A	A	A	A	A	A	A	A
Copper Chloride	(3)	A	F	X	A	X	(7)	X
Copper Sulfate	A	A	A	X	A	X	X	(7)
Cosmolubric HF-122, HF-130, HF-144	(11)	(11)	X	X	X	A	A	A
Cottonseed Oil	(3)	A	F	F	X	A	A	A
Crude Petroleum Oil	(3)	A	F	A	X	(7)	(7)	A
DEA econa E46	A(4)	F(14)	-	-	-	A	A	A
Deionized Water	A	A	A	A	A	F	F	A
Dextron II ATF	(3)	A	F	A	X	A	A	A
Diesel Fuel	(3)	A	X	A	X	A	A	A
Diester Fluids	X	X	X	F	X	A	A	A
Dow Corning DC 200, 510, 550, 560, FC126	A	A	A	F	-	A	A	A
Dow HD50-4	F	F	F	-	-	-	-	A
Dowtherm A,E	X	X	X	F	X	A	A	A
Dowtherm G	X	X	X	X	X	A	A	A
Elf hydref bio 46	A(4)	A(14)	-	-	-	A	A	A
Esso hydrauliköl HE 46	A(4)	F(14)	-	-	-	A	A	A
Ethanol	F	F	F	F	F	F	A	A
Ethers	-	-	-	F	-	A	A	A
Ethyl Acetate	X	X	X	F	F	F	A	A
Ethyl Alcohol	F	F	F	F	F	F	A	A
Ethyl Cellulose	F	F	F	F	F	X	F	F
Ethyl Chloride	X	X	X	X	A	F	F	F
Ethylene Dichloride	X	X	X	F	X	X	A	X
Ethylene Glycol	(3)	A	F	A	A	A	F	A
Exxon 3110 FR	A	A	A	A	X	A	A	A

Push-Lok® Hoses and fittings

Medium	I	II	III	IV	V	STEEL	BRASS	SS
Exxon Esstic	A	A	A	A	A	A	A	A
Exxon Nuto H 46, 68	A	A	A	A	X	A	A	A
Exxon Tellura Industrial Process Oils	A	A	A	A	X	A	A	A
Exxon Terresstic	A	A	A	A	A	A	A	A
Exxon Turbo Oil 2380	(3)	A	X	F	X	A	A	A
Exxon Univolt 60, N61	(3)	A	F	A	X	A	A	A
Finke aviation HY-HE 46	A(3)	A(14)	-	-	-	A	A	A
Formaldehyde	X	X	X	A	A	X	F	A
Formic Acid	X	X	X	X	A	X	(7)	X
Fragol Hydraulic TR 46	A(4)	F(14)	-	-	-	A	A	A
Fragol Hydraulik HE 46	(3)	F(14)	-	-	-	A	A	A
Freons see refrigerants	-	-	-	-	-	-	-	-
Fuchs Plantosyn 3268 ECO	F(4)	F(14)	-	-	-	A	A	A
Fuchs Plantosyn 3268	(3)	A(4)	-	-	-	A	A	A
Fuel Oil	(3)	A	F	A	X	A	A	A
Fyre-Safe 120C, 126, 155, 1090E, 1150, 1220, 1300E	X	X	X	X	A	A	A	A
Fyre-Safe 200C, 225, 211	(3)	A	F	A	A	A	A	A
Fyre-Safe W/O	A	A	A	A	X	A	A	A
Fyrguard 150, 150-M, 200	A	A	A	A	A	A	A	A
Fyrquel 60, 90, 150, 220, 300, 550, 1000	X	X	X	X	A	A	A	A
Fyrquel EHC, GT, LT, VPF	X	X	X	X	A	A	A	A
Fyrtek MF, 215, 290, 295	X	X	X	X	X	A	A	A
Gasoline (2, 12)	X	X	X	X	X	A	A	A
Glue.	F	F	F	-	X	A	F	A
Glycerine, Glycerol	A	A	A	A	A	A	F	A
Grease	A	A	A	A	X	A	A	A
Gulf-FR Fluid P37, P40, P43, P45, P48	X	X	X	F	A	A	A	A
H-515 (NATO)	A	A	A	-	X	A	A	A
Halon 1211, 1301	F	F	F	F	-	A	A	A
Helium Gas	X	X	X	X	X	A	A	A
Heptane	F(3)	F	X	A	X	A	A	A
Hexane	F(3)	F	X	A	X	A	A	A
Houghto-Safe 1055, 1110, 1115, 1120, 1130 (9)	X	X	X	X	A	A	A	A
Houghto-Safe 271 to 640	(3)	A	F	F	A	A	A	A
Houghto-Safe 419R Deicer Fluid	(3)	A	A	-	-	A	A	A
Houghto-Safe 5046, 5046W, 5047-F	A	A	A	A	X	A	A	A
HP 100C (Jack hammer oil)	(3)	A	F	A	X	A	A	A
Hydrochloric Acid	X	X	X	X	X	X	(7)	X
Hydrofluoric Acid	X	X	X	X	X	X	(7)	X
Hydrogen Gas (2, 15)	X	X	X	X	X	A	A	A
Hydrogen Peroxide	X	X	X	F	X	X	X	(7)
Hydrogen Sulfide	X	X	X	X	A	X	X	(7)
Hydrolube	A	A	A	F	A	A	A	A
Hydrolubric 120-B, 141, 595	(3)	A	F	F	A	A	A	A
Hydrosafe Glycol 200	A	A	A	A	A	A	F	A
HyJet IV (9)	X	X	X	X	A	A	A	A
Isocyanates	F(3)	F	F	F	X	A	-	A
Isooctane	F(3)	F	X	A	X	A	A	A
Isopar H	X	X	X	X	X	A	A	A
Isopropyl Alcohol	F	F	F	F	F	F	A	A
JP3 and JP4	(3)	A	X	-	X	A	A	A
Kaeser 150P, 175P, 325R, 687R	X	X	X	F	X	A	A	A
Kerosene (2, 3, 15)	(3)	A	X	F	X	A	A	A
Lacquer	X	X	X	F	X	X	A	A
Lacquer Solvents	X	X	X	F	X	X	A	A
Lactic Acids	X	X	X	X	X	X	(7)	A
Lindol HF	X	X	X	F	A	A	A	A
Linseed Oil	A	A	A	A	A	A	A	A
LP-Gas (2)	(2)	(2)	X	X	X	A	A	A
Magnesium Chloride	A	A	A	A	A	X	(7)	X
Magnesium Hydroxide	F	F	F	A	A	F	F	F
Magnesium Sulfate	A	A	A	A	A	A	F	A
Mercaptans	X	X	X	X	X	-	-	-
Methane	(2,3)	A	F	F	X	A	A	A
Methanol	F	F	F	F	F	F	A	A
Methyl Alcohol	F	F	F	F	F	F	A	A
Methyl Chloride	X	X	X	F	X	A	A	A
Methyl Ethyl Ketone (MEK)	X	X	X	F	X	F	A	A
Methyl Isopropyl-Ketone (15)	X	X	X	X	X	F	A	A
MIL-B-46176A	X	X	X	X	X	X	X	X
MIL-H-46170	F(3)	F	X	F	X	A	A	A
MIL-H-5606	(3)	A	F	A	X	A	A	A
MIL-H-6083	(3)	A	F	A	X	A	A	A
MIL-H-7083	(3)	A	F	A	X	A	A	A
MIL-H-83282	(3)	A	F	A	X	A	A	A
MIL-L-2104, 2104B	(3)	A	F	A	X	A	A	A
MIL-L-23699	F(3)	F	X	A	X	A	A	A
MIL-L-7808	(3,6)	A	F	-	X	A	A	A
Mine Guard FR	A	A	A	-	A	A	A	A
Mineral Oil	A	A	A	F	X	A	A	A
Mineral Spirits	(10)	(10)	(10)	(10)	X	A	A	A
Mobil Aero HFE	(3)	A	F	F	X	A	A	A
Mobil DTE 11M, 13M, 15M, 16M, 18M, 19M	(3)	A	F	A	X	A	A	A
Mobil DTE 22, 24, 25, 26	(3)	A	F	A	X	A	A	A
Mobil EAL 224H	(3)	A	X	X	-	A	A	A
Mobil EAL Syndraulik 46	F(4)	A(14)	-	-	-	A	A	A
Mobil Glygoyle 11, 22, 30, 80	A	A	A	-	X	A	A	A

Push-Lok® Hoses and fittings

Medium	I	II	III	IV	V	STEEL	BRASS	SS
Mobil HFA	(3)	A	F	A	X	A	A	A
Mobil Jet 2	F(3)	X	X	A	X	A	A	A
Mobil Nyvac 20, 30, 200, FR	(3)	A	F	F	A	A	A	A
Mobil Rarus 824, 826, 827	X	X	X	F	X	A	A	A
Mobil SHC 600 Series	(3)	A	F	A	X	A	A	A
Mobil SHC 800 Series	(3)	A	F	A	X	A	A	A
Mobil SHL 624	(3)	A	-	A	X	A	A	A
Mobil Vactra Oil	A	A	A	F	X	A	A	A
Mobil XRL 1618B	X	X	X	X	A	A	A	A
Mobilfluid 423	(3)	A	F	A	X	A	A	A
Mobilgear SHC 150, 220, 320, 460, 680	F(3)	X	F	F	X	A	A	A
Mobilrama 525	A	A	A	F	X	A	A	A
Molub-Alloy 890	X	X	X	F	X	A	A	A
Moly Lube „HF“ 902	F(3)	F	F	F	X	A	A	A
Monolec 6120 Hydraulic Oil	A	A	A	A	X	A	A	A
Morpholine (pure additive)	X	X	X	X	X	X	X	A
Naptha	F(3)	F	X	A	X	A	A	A
Napthalene	X	X	X	F	X	A	A	A
Natural Gas (2)	(2)	(2)	X	X	X	A	A	A
Nitric Acid	X	X	X	X	X	X	X	(7)
Nitrobenzene	X	X	X	F	X	X	X	(7)
Nitrogen	F(1)	F(1)	F(1)	F(1)	F(1)	A	A	A
Nuto H 46, 68	A	A	A	A	X	A	A	A
Nyvac 20, 30, 200, FR	(3)	A	F	F	A	A	A	A
Nyvac Light	X	X	X	-	A	A	A	A
Oil Synthetic Blends	X	X	X	X	X	A	A	A
Oxygen (2,15)	X	X	X	X	X	X	A	A
Ozone	F	F	F	-	A	A	A	A
Panolin HLP synth 46	(3)	A(4)	-	-	-	A	A	A
Perchloroethylene	X	X	X	X	X	F	X	A
Petroleum Ether	F(3)	F	X	F	X	A	A	A
Petroleum Oils	A	A	A	A	X	A	A	A
Phenol (Carbolic Acid)	X	X	X	A	X	X	F	A
Phosphate Ester Blends	X	X	X	X	X	A	A	A
Phosphate Esters (9)	X	X	X	X	A	A	A	A
Phosphoric Acid	X	X	X	X	X	X	X	(7)
Polyalkylene Glycol	F	F	A	-	X	A	A	A
Polyol Ester	(11)	F	X	X	X	A	A	A
Potassium Chloride	A	A	A	A	A	X	F	(7)
Potassium Hydroxide	X	X	X	F	A	(7)	X	A
Potassium Sulfate	A	A	A	A	A	A	A	A
Propane	(2)	(2)	X	X	X	A	A	A
Propylene Glycol	(3)	A	F	A	A	F	F	F
Pydraul 60, 150, 625, F9 (9)	X	X	X	X	A	A	A	A
Pydraul 90, 135, 230, 312, 540, MC (9)	X	X	X	X	F	A	A	A
Pydraul A-200	X	X	X	F	X	A	A	A
Pyro Gard 43, 230, 630 (9)	X	X	X	F	X	A	A	A
Pyro Gard C, D, R, 40S, 40W	(3)	A	F	F	A	A	A	A
Pyro Guard 53, 55, 51, 42 (9)	X	X	X	X	A	A	A	A
Quintolubric 700	A	A	A	A	A	A	F	A
Quintolubric 822, 833	(11)	(11)	X	X	X	A	A	A
Quintolubric 957, 958	(3)	A	F	F	A	A	A	A
Refrigerant Freon 113, 114 (5)	X	X	X	X	X	A	A	A
Refrigerant Freon 12 (5)	X	X	X	X	X	A	A	A
Refrigerant Freon 22 (5)	X	X	X	X	X	A	A	A
Refrigerant Freon 502 (5)	X	X	X	X	X	A	A	A
Refrigerant HFC134A (5)	X	X	X	X	X	A	A	A
RTV Silicone Adhesive Sealants (15)	X	X	X	X	X	A	A	A
Safco-Safe T10, T20	A	-	-	-	A	F	F	A
Safety-Kleen ISO 32, 46, 68 hydraulic oil	(3)	A	F	-	X	A	A	A
Safety-Kleen Solvent	(10)	(10)	(10)	(10)	X	A	A	A
Santoflex 13	F	F	F	-	F	A	A	A
Santosafe 300	X	X	X	-	X	A	A	A
Santosafe W/G 15 to 30	A	-	-	A	A	A	A	A
Sea Water	F	F	F	F	A	X	F	(7)
Sewage	F(3)	F	F	A	F	(7)	(7)	(7)
Shell 140 Solvent	(10)	(10)	(10)	(10)	X	A	A	A
Shell Clavus HFC 68	X	X	X	X	X	A	A	A
Shell Comptella Oil	F(3)	F	F	A	X	A	A	A
Shell Comptella Oil S 46, 68	F(3)	F	F	A	X	A	A	A
Shell Comptella Oil SM	F(3)	F	F	A	X	A	A	A
Shell Diala A, (R) Oil AX	(3)	A	F	F	X	A	A	A
Shell FRM	A	-	-	-	X	A	A	A
Shell IRUS 902, 905	A	A	A	-	A	A	A	A
Shell naturelle HFE 46	F(4)	A(14)	-	-	-	A	A	A
Shell Pella-A	A	A	A	A	X	A	A	A
Shell Tellus	(3)	A	F	A	X	A	A	A
Shell Thermia Oil C	A	A	A	A	X	A	A	A
Shell Turbo R	F(3)	F	X	A	X	A	A	A
SHF 220, 300, 450	(11)	(11)	X	X	X	A	A	A
Silicate Esters	A	F	A	A	X	A	A	A
Silicone Oils	A	A	A	-	-	A	A	A
Skydrol 500B-4, LD-4	X	X	X	X	A(8)	A	A	A
Soap Solutions	F(3)	F	X	F	A	A	A	A
Soda Ash, Sodium Carbonate	A	A	A	A	A	A	F	A
Sodium Bisulfate	F	F	F	A	A	F	A	F
Sodium Chloride	F	F	F	A	A	X	F	A

Push-Lok® Hoses and fittings

Medium	I	II	III	IV	V	STEEL	BRASS	SS
Sodium Hydroxide	X	X	X	A	A	A	X	A
Sodium Hypochlorite	F	F	F	X	F	X	X	X
Sodium Nitrate	F	F	F	A	A	A	(7)	A
Sodium Peroxide	X	X	X	X	A	X	X	A
Sodium Silicate	A	A	A	A	A	A	A	A
Sodium Sulfate	A	A	A	A	A	A	A	A
Soybean Oil	(3)	A	F	A	A	A	A	A
Steam	X	X	X	X	X	F	A	A
Stoddard Solvent	(10)	(10)	(10)	(10)	X	A	A	A
Sulfur Chloride	X	X	X	F	X	(7)	X	(7)
Sulfur Dioxide	X	X	X	X	F	X	(7)	F
Sulfur Trioxide	X	X	X	F	F	X	X	X
Sulfuric Acid	F(7)	F	F	X	F(7)	(7)	X	(7)
Tannic Acid	(3)	A	F	F	A	X	(7)	X
Tar	X	F	F	F	X	X	(7)	A
Tebiol Esterhyd HE 46	F(4)	F(14)	-	-	-	A	A	A
Tellus (Shell)	(3)	A	F	A	X	A	A	A
Texaco 760 Hydrafluid	A	-	-	-	X	A	A	A
Texaco 766, 763 (200 - 300)	A	-	-	-	A	F	F	A
Texaco A-Z Oil	A	A	A	F	X	A	A	A
Texaco Way Lubricant 68	A	A	A	A	X	A	A	A
Toluene, Toluol	X	X	X	F	X	A	A	A
Transmission Oil	A	A	A	A	X	A	A	A
Tribol 1440	F(3)	F	X	X	X	A	A	A
Trichloroethylene	X	X	X	F	X	X	A	A
Trim-Sol	(3)	A	F	F	X	A	A	A
Turpentine	X	X	X	F	X	A	A	A
Ucon Hydrolubes	(3)	A	F	F	A	A	A	A
Univis J26	A	A	-	A	X	A	A	A
Unleaded Gasoline (2,12)	X	X	X	X	X	A	A	A
Urea	F	F	F	A	F	F	-	F
Urethane Formulations	A	A	A	A	-	A	A	A
Varnish	X	X	X	F	X	F	F	A
Varsol	F(3)	F	(10)	(10)	X	A	A	A
Versilube F44, F55	A	A	-	A	-	A	A	A
Vinegar	X	X	X	F	A	(7)	X	A
Volt Esso 35	A	A	A	A	X	A	A	A
Water	A	A	F	A	A	F	A	A
Water / Glycols	(3)	A	A	A	A	A	F	A
Xylene, Xylol (15)	X	X	X	X	X	A	A	A
Zerol 150	A	A	A	A	X	A	A	A
Zinc Chloride	A	A	A	X	A	X	X	F
Zinc Sulfate	A	A	A	X)	A	X	A	A

Resistant rating key: A = Preferred F = Fair X = Unsuitable -- = No recommendation

- | | |
|--|------------------------------|
| (1) Hose must be pin pricked | Column I |
| (2) Legal and insurance regulations must be considered | 801, 821, 821FR, 837BM, |
| (3) hoses in column 2 are recommended | |
| (4) Maximum 158 °F (70 °C) | Column II |
| (5) hose 235 and 285 are recommended for refrigerants | 831 |
| (6) Maximum 185 °F (85 °C) | |
| (7) Satisfactory at some concentrations and temperatures, unsatisfactory at others | Column III |
| (8) Some discoloration of fluid may occur without damage to fluid properties | 77C, 78C |
| (9) For phosphate ester fluids use Column V, 235, 285 hoses | Column IV |
| (10) Acceptable for flushing hose assemblies | 206, 213, 266, 296, 636, 836 |
| (11) Use 381, 481, 772, or 831 | |
| (12) 221FR hose recommended | Column V |
| (13) For dry air applications hoses from column 2, 4, 5 and 235 is recommended. | 804 |
| (14) Maximum 212 °F (100 °C) | |
| (15) hoses 235 and 285 are recommended | |

Hose selection by medium and hose type

This hose compatibility chart is a ready reference of Parker hose adaptability with various media. It is intended as a guide to chemical compatibility with the internal fluid and assembly lubricant applied internally. While all listings shown reflect known usage or authoritative sources, other factors may in some cases render them invalid. Final hose selection depends also upon pressure, fluid temperature, ambient temperature, and special requirements or variations which may not be known by Parker Hannifin. Legal and other regulations applicable to footnotes (2), (3) and (4) must be followed with particular care. Where an external compatibility problem may occur or for fluids not listed, contact your Parker Hannifin field representative.

Catalogue 5210-UK



Thermoplastic single tubes and Pneumo-Tube bundles

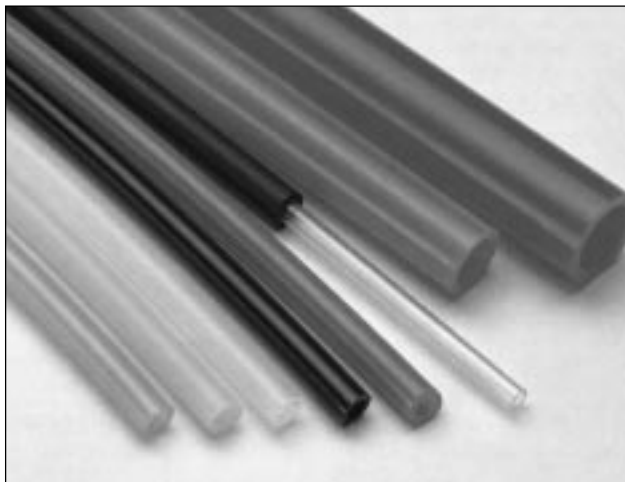
Index	Pages
Thermoplastic single tubes and Pneumo-Tube bundles	P 3
Polyamide tubing	P 4-P 5
Polyurethane tubing	P 6-P 7
Ordering information	P 8
Technical tube preparation	P 8
Tube bundles	P 9-P10
Singleline Pneumotube	P 11

Thermoplastic single tubes and Pneumo-Tube bundles

Principle

All Parker tubes are manufactured to international standards and are fully compatible with Parker's wide range of push-in, compression and screw type tube fittings, for example Parflex thermoplastic fittings such as Fast & Tite®, TrueSeal™, Par-Barb and Mini-Barb as well as components from the Parker Pneumatic Connectors Handbook.

Standard packaging of all Parker single tube products is polyethylene bags.
Dispensing cardboard boxes (K) are available on request.



Applications

Pneumatics

Lubrication systems

Process control lines

Instrumentation and control

Robotics systems

Pressurised air tools

Paint systems

Automation systems

Medical applications

Food and beverage applications

Fluid applications

Thermoplastic single tubes and Pneumo-Tube bundles

Parker calibrated polyamide tubing

Parker calibrated polyamide tubing is extruded in polyamide (PA11/12) for use with pneumatic fittings. This is manufactured within the limits of DIN 73378, BS 5409 PT1 and CETOP RP54 P recommendations, and is ideal for pneumatic applications.

For continuous use at high temperature we recommend tube which is protected against heat and light.

Advantages

- Good vibration/damping properties,
- Tubing available in several colours for easy identification
- High abrasion resistance
- Low pressure drop,
- No thermal expansion

Technical features

Working pressure (bar)								
°C \ Tube size	- 40	- 20	0	20	30	40	50	60
N3 x 0.60	33	33	33	33	25	25	19	19
N4 x 0.65	26	26	26	26	19	19	15	15
N4 x 1	44	44	44	44	33	33	25	25
N5 x 1	33	33	33	33	25	25	19	19
N6 x 1	27	27	27	27	20	20	15	15
N8 x 1	19	19	19	19	14	14	11	11
N10 x 1	15	15	15	15	11	11	8	8
N10 x 1.25	19	19	19	19	14	14	11	11
N10 x 1.5	24	24	24	24	17	17	13	13
N12 x 1	12	12	12	12	9	9	7	7
N14 x 1.5	16	16	16	16	12	12	9	9
N16 x 1.5	14	14	14	14	10	10	8	8

Working pressure of polyamide tubing is dependant on the operating temperature. Working pressures shown are based on a design factor of 3:1

Thermoplastic single tubes and Pneumo-Tube bundles

Parker calibrated polyamide tubing

Tube bend radius

To ensure the correct functioning of both tube fitting and pneumatic system it is important not to exceed the minimum bend radius of the tube.

Tube size	Minimum bend radius (mm)
3 x 0.60	15
4 x 0.65	20
4 x 1	20
5 x 1	35
6 x 1	35
8 x 1	45
10 x 1.25	60
10 x 1	60
12 x 1	70
14 x 1.50	85
16 x 1.50	95

Tube outside diameter tolerances

Tube OD	Tolerance mm
3 to 5 mm	+ 0.05 - 0.08
6 to 16 mm	+ 0.05 - 0.10

Chemical compatibility

Parker polyamide tubing is suitable for use with a wide variety of fluids. The table below shows typical fluids used with polyamide tubing.

Fluid	Working temperature		
	-20 °C	+20 °C	+60 °C
Cutting oil	A	A	A
Cutting fluids	A	A	A
Water	A	A	A
Hydraulic oils	A	A	A
Mineral oils / greases	A	A	A
Carbon dioxide	A	A	A
Acetone	A	A	A
Gasoline	B	B	B
Trichloroethylene	-	C	C

A = excellent, B = medium, C = poor
For other fluids please contact us

Colours and sizes available

For identification purposes Parker can supply on request, tubes in several colours : red, blue, green, yellow and black. Parker tubing is packaged and delivered as standard in 100 metre lengths for sizes 3 x 0.65 to 12 x 1 and in 25 metre lengths for larger sizes.

Tube size (mm)			Tube Length (m)	Part number					
OD	ID	Wall Thickness		Natural (1)	Red (2)	Blue (3)	Green (4)	Black (5)	Yellow (7)
3	1.7	0.60	100	N3x0.65/1-100	N3x0.65/2-100	N3x0.65/3-100	N3x0.65/4-100	N3x0.65/5-100	N3x0.65/7-100
4	2.7	0.65	100	N4x0.65/1-100	N4x0.65/2-100	N4x0.65/3-100	N4x0.65/4-100	N4x0.65/5-100	N4x0.65/7-100
4	2	1	100	N4x1/1-100	N4x1/2-100	N4x1/3-100	N4x1/4-100	N4x1/5-100	N4x1/7-100
5	3	1	100	N5x1/1-100					
6	4	1	100	N6x1/1-100	N6x1/2-100	N6x1/3-100	N6x1/4-100	N6x1/5-100	N6x1/7-100
8	6	1	100	N8x1/1-100	N8x1/2-100	N8x1/3-100	N8x1/4-100	N8x1/5-100	N8x1/7-100
10	7.5	1.25	100	N10x1.25/1-100	N10x1.25/2-100	N10x1.25/3-100	N10x1.25/4-100	N10x1.25/5-100	N10x1.25/7-100
10	8	1	100	N10x1/1-100	N10x1/2-100	N10x1/3-100	N10x1/4-100	N10x1/5-100	N10x1/7-100
12	10	1	100	N12x1/1-100	N12x1/2-100	N12x1/3-100	N12x1/4-100	N12x1/5-100	N12x1/7-100
14	11	1.50	25	N14x1.5/1-25	N14x1.5/2-25	N14x1.5/3-25	N14x1.5/4-25	N14x1.5/5-25	N14x1.5/7-25
16	13	1.50	25	N16x1.5/1-25	N16x1.5/2-25	N16x1.5/3-25	N16x1.5/4-25	N16x1.5/5-25	N16x1.5/7-25

Thermoplastic single tubes and Pneumo-Tube bundles

Parker calibrated polyurethane tubing

Parker calibrated polyurethane tubing is obtained by extrusion. The material hardness is 52 Shore D. Its very high flexibility allows a small minimum bend radius for compact installations.

A dimensional inspection system based on advanced laser technology maintains a tight tolerance on the outside tube diameter.

This is manufactured within the limits of NF E49 - 101 1994 recommendations.

Advantages

- Extreme flexibility with bend radii up to three times better than polyamide tubing allows compact installations
- Tube available in several colours for line identification,
- Good vibration resistance,
- Light weight,
- Reduced fitting time.

Technical features

		Working pressure (bar)							
°C		- 35	- 20	0	20	30	40	50	60
Tube size									
TPU 3 x 0.5		12	12	12	12	9	9	8	8
TPU 4 x 0.75		14	14	14	14	11	11	9	9
TPU 6 x 1		12	12	12	12	9	9	8	8
TPU 8 x 1.25		11	11	11	11	9	9	7	7
TPU 10 x 1.5		10	10	10	10	8	8	7	7
TPU 12 x 2		12	12	12	12	9	9	8	8
TPU 16 x 2.5		11	11	11	11	9	9	7	7

Working pressure of polyurethane tubing is dependant on the operating temperature. Working pressures shown are based on a design factor of 3:1

Thermoplastic single tubes and Pneumo-Tube bundles

Parker calibrated polyurethane tubing

Tube bend radius

To ensure the correct functioning of both tube fitting and pneumatic system it is important not to exceed the minimum bend radius of the tube.

Tube size	Minimum bend radius (mm)
3 x 0.5	13
4 x 0.75	17
5 x 1	22
6 x 1	27
8 x 1.25	37
10 x 1.50	54
12 x 2	62

Polyurethane tubing outside diameter tolerances

Tube OD	Tolerance mm
3 to 8 mm	± 0.1
10 and 12 mm	± 0.15

Chemical compatibility

Parker polyurethane tubing is suitable for use with a wide variety of fluids. The table below shows typical fluids used with polyurethane tubing.

Fluid	Working temperature		
	-20 °C	+20 °C	+60 °C
Cutting oil	A	A	A
Cutting fluids	A	A	A
Water	A	A	A
Hydraulic oils	A	A	A
Mineral oils / greases	A	A	A
Carbon dioxide	A	A	A
Gasoline	B	B	B
Trichloroethylene	-	C	C
Acetone	-	C	C

A = excellent, B = medium, C = poor
For other fluids please contact us

Colours and sizes available

For identification purposes Parker polyurethane tubing is available in three colours : blue, black and silver. Parker calibrated polyurethane tubing is packaged and delivered in 100 meter lengths as standard.

Tube size (mm)			Tube Length (m)	Part number		
OD	ID	Wall Thickness		Blue (3)	Black (5)	Silver (13)
3	2	0.5	100	TPU3x0.5/3-100	TPU3x0.5/5-100	TPU3x0.5/13-100
4	2.5	0.75	100	TPU4x0.75/3-100	TPU4x0.75/5-100	TPU4x0.75/13-100
5	3	1	100	TPU5x1/3-100	TPU5x1/5-100	TPU5x1/13-100
6	4	1	100	TPU6x1/3-100	TPU6x1/5-100	TPU6x1/13-100
8	5.5	1.25	100	TPU8x1.25/3-100	TPU8x1.25/5-100	TPU8x1.25/13-100
10	7	1.5	100	TPU10x1.5/3-100	TPU10x1.5/5-100	TPU10x1.5/13-100
12	8	2	100	TPU12x2/3-100	TPU12x2/5-100	TPU12x2/13-100

Also available as twin line tubes in black/blue or silver/silver.
 Deviating constructions also possible.

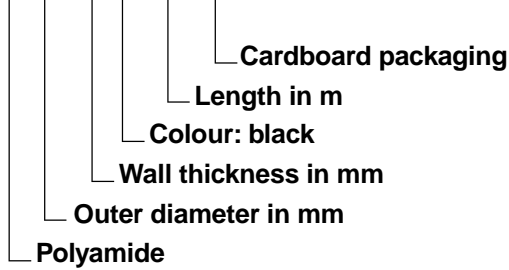
For other tube sizes, colours and lengths please contact us.

Thermoplastic single tubes and Pneumo-Tube bundles

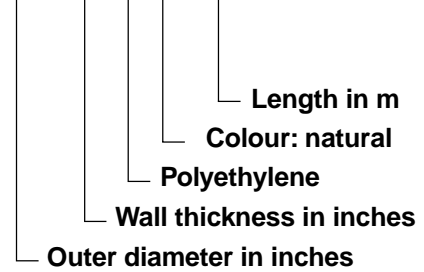
Ordering information

Ordering key

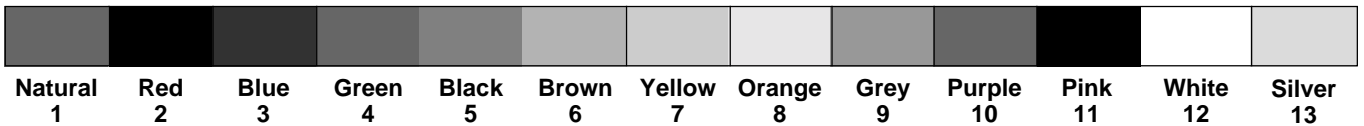
Examples: **N 6X1/5-50 K**



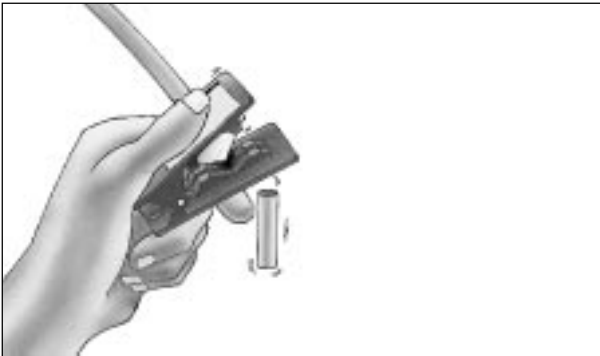
2X022L/1-100



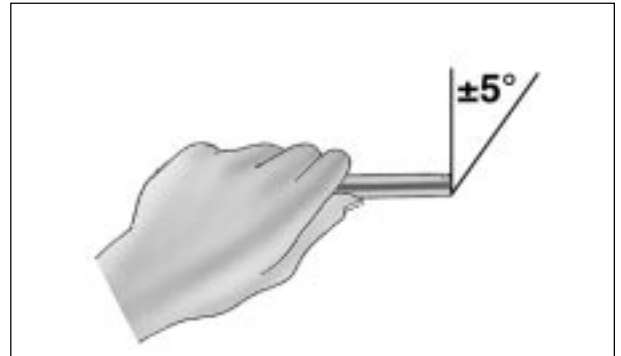
Colour codes:



Technical tube preparation



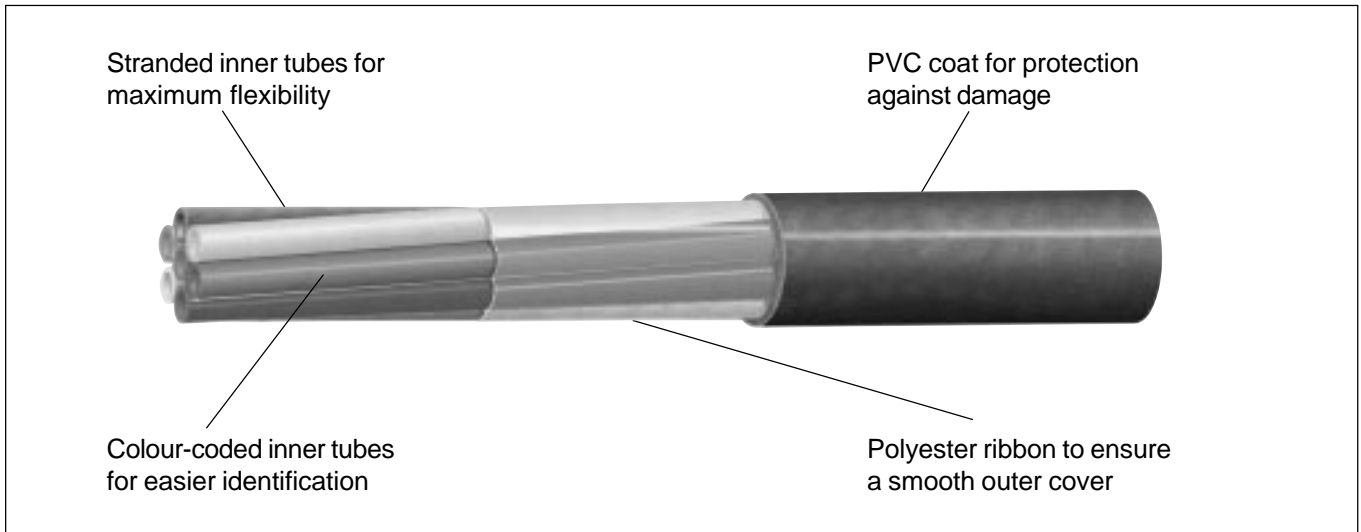
Always use a Parker tube cutter to cut technical tubing



Always ensure that the tube is out square before assembling it to the fitting.

Thermoplastic single tubes and Pneumo-Tube bundles

Tube bundles - For maximum safety and minimum installation work



Parker Pneumo-Tube bundles are a high-quality thermoplastic product designed especially for process control and monitoring applications.

Parker Pneumo-Tube bundles are excellent for use in hydraulic and pneumatic systems.

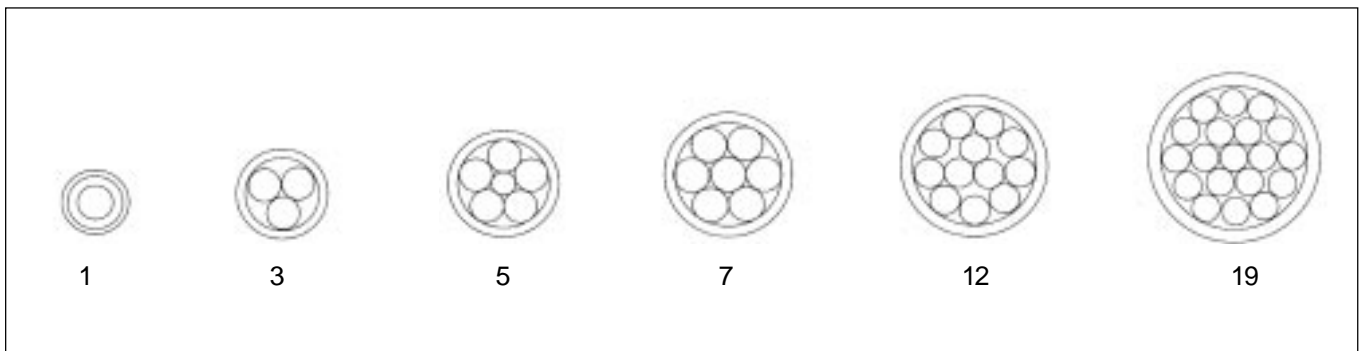
The PVC coat protects the product against mechanical and chemical damage.

Each tube can be easily and quickly identified by its colour and position within the stranded bundle. The single tubes are marked in intervals of max. 500 mm as a standard.

Using a combination of colours, tube and sheath materials, together with various barrier types, Pneumo-Tube can be constructed to meet the most varied and demanding applications.







Electrical wires and tension members can also be incorporated.

Standard configurations are available in long continuous lengths



Thermoplastic single tubes and Pneumo-Tube bundles

Tube bundles types

<p>STS Type</p>	 <p>Tube bundle PVC standard thickness sheathed for protection against damage</p>
<p>ETS Type</p>	 <p>Tube bundle with extra thick PVC, sheathed for direct underground burial with sand cushion.</p>
<p>STA Type</p>	 <p>Tube bundle, PVC sheathed, with two-layered hoop-steel armouring for direct underground burial without special bedding.</p>
<p>STB Type</p>	 <p>Tube bundle PVC sheathed, with thermal barrier for short-term resistance to fire.</p>
<p>DTB Type</p>	 <p>Tube bundle, PVC sheathed with double thermal barrier for extra fire protection.</p>
<p>AH Type</p>	 <p>Tube bundle, PVC sheathed with central air supply line.</p>

Thermoplastic single tubes and Pneumo-Tube bundles

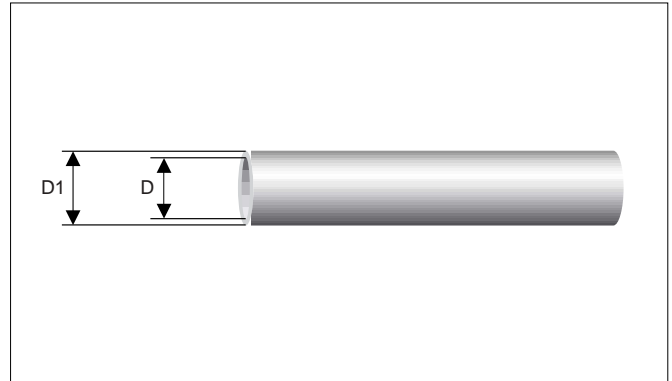
Prestoweld 2 tubing

Prestoweld 2 thermoplastic tubing has been specifically designed to meet the stringent requirements of the robotic welding industry for pneumatic control.

The combination of the Prestoweld 2 tubing and instant fittings ensures a cost and time saving during the assembly.

By using weld spark resistant material, Prestoweld 2 guarantees a high quality, reliable and long lasting solution for the air and water supply of welding robots.

Prestoweld 2 single tube is tested and approved by the major players in the automotive industry.



Technical features

Material:	Weld spark resistant Polyurethane, halogen-free.
Tubing colour:	Black.
Branding colour:	White (other colours on request).
Working temperature:	- 30°C up to + 90°C.
Fittings:	Prestoweld 2 instant fittings (see section E).

Advantages

Weld sparks resistant materials

- Noprotective cover required.
- No need for tube preparation.
- No additional assembly tool required.
- Simple, fast and reliable assembly.
- Long service life.

Silicon and lubs free tubing

- Free of all paint effective substances.
- Does not interfere with the coating quality (imperative in the automobile industry).

Colour coding possible

- Identification of circuits.
- Prevents mix-up of tube functions.

Small bend radius and small overall dimensions

- Flexibility.
- Easy assembly even with limited space.

D (mm)	D1 (mm)	Part number	Max. working pressure at 23°C (bar)	Max. burst pressure (bar)	Min. bend radius (mm)	Weight (g./m)
2	4	PWPU 4x1	28	84	8	12.0
4	6	PWPU 6x1	16	50	15	20.0
5	8	PWPU 8x1.5	19	58	16	38.9
4	8	PWPU 8x2	28	84	16	47.9
6	10	PWPU 10x2	21	63	21	63.9
8	12	PWPU 12x2	16	50	30	78.8
10	14	PWPU 14x2	16	42	47	95.8

Catalogue 0026-UK



Accessories

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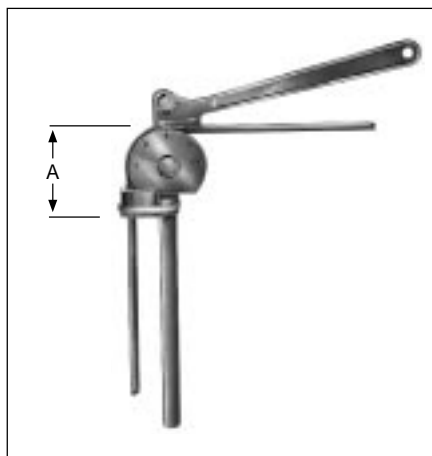
Accessories

2000 - Manual copper tube bender	Q 3
2005 - Copper tube cutter	Q 3
Par-Lok - Snap-action ratchet spanner	Q 3
PTC - Plastic tube cutter	Q 4
Parker Teflon® tape	Q 4
SVGP - Slide valves	Q 4

Complementary products

8000 - Stainless steel clamps	Q 5
3501 - Brass tube fittings	Q 5
0089 - Prestomatic	Q 5

2000 - Manual copper tube bender



Tube size mm	Part number	Radius mm	Length A mm	Weight g.
6x1	2000/6-1	11	31	270
8x1	2000/8-1	14	38	320
10x1	2000/10-1	23	57	710
12x1	2000/12-1	31	74	930
14x1	2000/14-1	42	97	2050
16x1	2000/16-1	54	123	2500

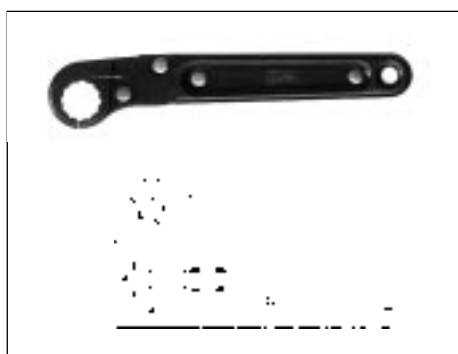
2005 - Copper tube cutter



Adjustable cutting tool.
Capacity : copper tube from 6x1 to 22x1.5 mm

Part number : **2005**

Par-Lok - Snap-action ratchet spanner



Metric sizes		Inch sizes					
Hex mm	Part number	Hex in.	Part number	A mm	B mm	C mm	Weight g.
10	86 00 63-10	3/8	86 00 62-6	25.4	7.1	137	73
11	86 00 63-11	7/16	86 00 62-7	25.4	7.1	137	73
12	86 00 63-12			25.4	7.1	137	73
13	86 00 63-13	1/2	86 00 62-8	25.4	7.1	137	73
14	86 00 63-14	9/16	86 00 62-9	33.5	9.6	184	140
16	86 00 63-16	5/8	86 00 62-10	33.5	9.6	184	140
17	86 00 63-17			33.5	9.6	184	135
		11/16	86 00 62-11	33.5	9.6	184	130
19	86 00 63-19	3/4	86 00 62-12	33.5	9.6	184	130
21	86 00 63-21	13/16	86 00 62-13	42.4	11.2	237	260
22	86 00 63-22	7/8	86 00 62-14	42.4	11.2	237	260
		15/16	86 00 62-15	42.4	12.9	237	260
24	86 00 63-24	1	86 00 62-16	42.4	12.9	237	260
27	86 00 63-27	1.1/8	86 00 62-18	55.8	14.2	346	500
Full kit of 10 sizes : 10-11-12-13-14 16-17-19-21-22			86 00 63-kit				

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Accessories

PTC - Plastic tube cutter



Cutting tool.
Capacity : plastic tube up to 14 mm
O.D..

Part number : **PTC**

Replacement blade for plastic tube cutter
Part number : **PTC001RB**

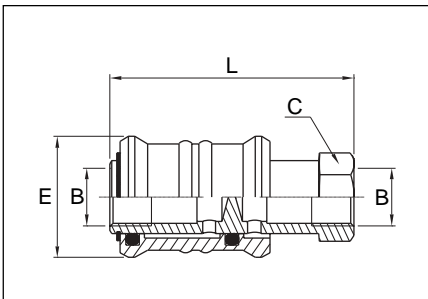
Parker Teflon tape



Improves sealing on threads.
Resists most known chemical agents.
High pressures and temperatures (250°C).
Available in 12 metre reels -
12.7 mm x 0.08 mm section.

Part number : **Ruban Teflon®**

SVG4-Slide valves



B	Part number	C	E	L	Weight g.
G 1/8	SVG4-1/8P	14	25	48	50
G 1/4	SVG4-1/4P	17	30	58	81
G 3/8	SVG4-3/8P	22	35	68	152
G 1/2	SVG4-1/2P	27	40	80	220

For product availability please consult our price list 0093-UK.
Dimensions shown may be changed at any time without prior notice.

Complementary products

The Parker Fluid Connectors Group has a complete range of components for pneumatic systems. The major product features are shown. For detailed information please consult the corresponding product catalogue.

Stainless steel clamps - catalogue 8000



Hose Clamps

High quality worm drive clamps with slotted hexagon head screws.

Materials : stainless steel housing and hexagon head screws of AISI 301 stainless steel

Working pressure : according to size from 70 to 1000 psi (5 to 70 bar)

Standards : SAE J 536 (DIN 30 17 heavy duty series)

Standard range : 0.25" to 7" (6 to 178 mm)

Brass tube fittings - catalogue 3501



Comprehensive range of brass tube fittings for use with imperial rigid or plastic tubing to NPT threads.

Prestomatic - bulletin 3530-B1



Comprehensive range of metric push-in air brake fittings for the truck, bus and trailer industries.

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216P	J 5	BVGL	M 7
218P	J 11	BVGTC	M 5
219P	J 12	BVGTL	M 7
222P	J 6	C	B 18
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About Parker Hannifin Corporation

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A Fortune 500 corporation listed on the New York Stock Exchange (PH), our components and systems comprise over 1,400 product lines that control motion in some 1,000 industrial and aerospace markets.

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To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods.

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Customers seeking product information, the location of a nearby distributor, or repair services will receive prompt attention by calling the Parker Product Information Centre.

The Centre can be called toll free from France, Germany, Austria, Switzerland or the United Kingdom. You will be answered by a Parker employee in your own language. Call Freephone: 00800 27 27 5374 (00800 C PARKER).

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