

- > Port size: 4 ... 10 mm  
G1/8 ... G1/2
- > Compact units
- > System running cost savings by optimising cylinder pressure
- > Designed for mounting on valves
- > Push-in or threaded ports available
- > Relief feature to protect against over pressure



### Technical features

**Medium:**

Compressed air

**Operation:**

It is often necessary to provide a secondary reduced pressure to an actuator to control its operating force. A pressure reducing fitting provides this function, which can be manually adjusted to the required pressure level. The relieving function gives a safety feature satisfying EN983 (Safety of Machinery) regarding

protection under external loads.

This states that a means shall be provided to prevent unacceptable pressure build-up where high external loads are reflected on actuators.

**Operating pressure:**

1... 10 bar (14 ... 145 psi) (primary)  
1 ... 8 bar (14 .... 73 psi) (secondary)

**Tube size:**

4, 6, 8, 10 mm

**Thread size:**

G1/8, G1/4, G3/8, G1/2

**Tube types:**

Nylon 11 or 12, polyurethane and other plasticised or unplasticised tubing

**Ambient/Media temperature:**

-20°C ... +80°C (-4 ... +176°F)  
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

**Materials**

Body and banjo bolt: nickel plated brass

Washer: NBR and PU

### Technical data, Push in fitting on port 1

Symbol	O/D tube 1 (mm)	Port size 2	Model
	4	G1/8	102GB0418
	6	G1/4	102GB0628
	8	G1/4	102GB0828
	8	G3/8	102GB0838
	10	G3/8	102GB1038

### Technical data, thread on port 1

Symbol	Port size 1	Port size 2	Model
	G1/8	G1/8	102GB1818
	G1/4	G1/4	102GB2828
	G1/2	G1/2	102GB4848

### Options selector

102GB★★★★

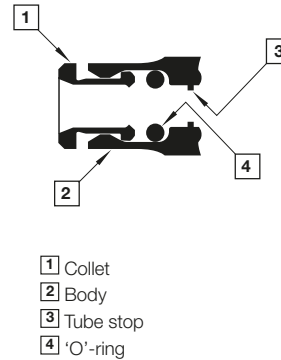
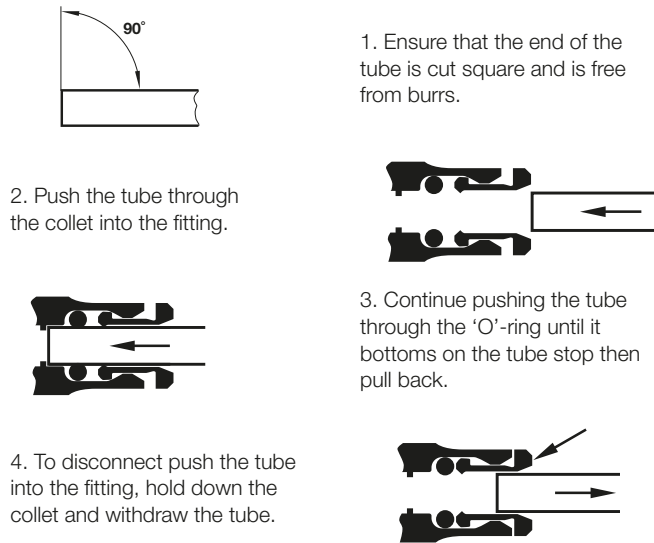
Tube size (mm)	Substitute
4	04
6	06
8	08
10	10

Port size	Substitute
G1/8	18
G1/4	28
G3/8	38
G1/2	48

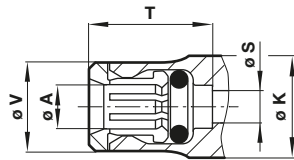
Port size	Substitute
G1/8	18
G1/4	28
G3/8	38
G1/2	48

**Method of assembly**



**Technical data**

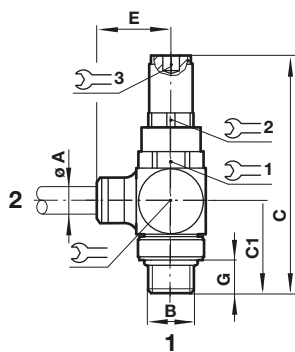
Ø A O/D tube	Ø S	Ø T *1)	V	Ø K
4	2,8	14	7,5	10
6	4,4	15,5	11	12
8	6	16,5	13	14
10	7,6	21	14,5	17



\*1) Dimensions here and in the individual tables refer to the collet being in the 'IN' position.

**Dimensions**

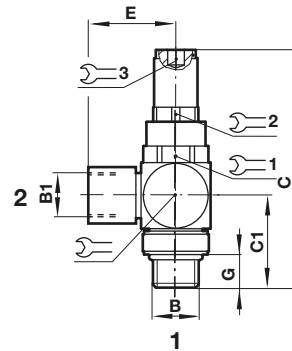
**Push-in fitting x BSPP thread**



Ø A	B	C	C1	E	G	±0.1	±0.3	Model
4	G1/8	73	20	22	6	13 / 16	11 / 5	102GB0418
6	G1/4	81	26	25	10,5	17 / 20	13 / 5	102GB0628
8	G1/4	81	26	26	10,5	17 / 20	13 / 5	102GB0828
8	G3/8	86	29	28	10,8	22 / 24	17 / 6	102GB0838
10	G3/8	86	29	32,5	10,8	22 / 24	17 / 6	102GB1038

**BSPP thread x BSPP thread**

Dimensions in mm  
Projection/First angle



B	B1	C	C1	E	G	±0.1	±0.3	Model
G1/8	G1/8	73	20	17,5	6	13 / 16	11 / 5	102GB1818
G1/4	G1/4	81	26	24,5	10,5	17 / 20	13 / 5	102GB2828
G1/2	G1/2	89	36	34	12,5	22 / 24	17 / 6	102GB4848

**Warning**

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »Technical features/data«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Norgren GmbH.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.