

- > Port size: 4 ... 12 mm
G1/8 ... G1/2
- > Very compact units
- > Positive tube anchorage
- > Safer pneumatic systems



Technical features

Medium:

Compressed air

Operation:

Essentially a pilot operated check valve, a blocking fitting allows air flow in both directions if a pilot pressure is applied to port 12. When pressure to the pilot port is removed, flow occurs in one direction only, due to an integral non-return valve. When used in pairs, blocking fittings can control an actuator to give safe

operation in the event of an electrical problem, air failure or tube breakage. In order to provide a 'safe system', all possible conditions need to be considered in the event of an emergency.

Operating pressure:
1... 10 bar (14 ... 145 psi)

Pilot pressure:

See table

Tube size:

4, 6, 8, 10 mm

Thread size:

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

Tube types:

PA 11 or 12, PU and other plasticised or unplasticised tubing

Pilot port:

M5 (102GA), G1/8 (102GH)

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 PUR

Alternative variants:

NPTF-ports on request

Technical data, Push-In and thread ports

Symbol	Port size 1 (mm)	Port size 2	Pilot port	Pilot pressure (bar)	Model
	4	G1/8	M5	2,5	102GA0418
	6	G1/8	M5	2,5	102GA0618
	6	G1/4	M5	2,5	102GA0628
	8	G1/4	M5	2,5	102GA0828
	8	G3/8	M5	3	102GA0838
	10	G3/8	M5	3	102GA1038
	12	G1/2	M5	2,5	102GA1248

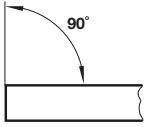
Technical data, thread ports only

Symbol	Port size 1	Port size 2	Pilot port	Pilot pressure (bar)	Model
	G1/8	G1/8	M5	2,5	102GA1818
	G1/8	G1/4	M5	2,5	102GA1828
	G1/4	G1/4	M5	2,5	102GA2828
	G3/8	G3/8	M5	3	102GA3838
	G1/2	G1/2	M5	2,5	102GA4848
	G1/4	G1/4	G1/8	2,5	102GH2828X2
	G3/8	G3/8	G1/8	3	102GH3838X2
	G1/2	G1/2	G1/8	2,5	102GH4848X2

Options selector

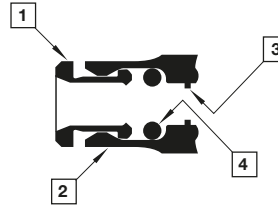
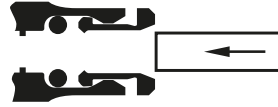
Manual override		Substitute	102G*****		Manual overrider for thread/thread version only		Substitute
Without (standard)		A			Without		None
With		H			With		X2
Tube size (mm)		Substitute			Port size		Substitute
4		4			G1/8		18
6		6			G1/4		28
8		8			G3/8		38
10		10			G1/2		48
12		12					
Port size		Substitute					
G1/8		18					
G1/4		28					
G3/8		38					
G1/2		48					

Method of assembly



1. Ensure that the end of the tube is cut square and is free from burrs.

2. Push the tube through the collet into the fitting.

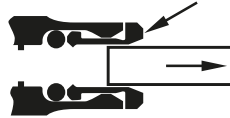


- 1 Collet
- 2 Body
- 3 Tube stop
- 4 'O'-ring



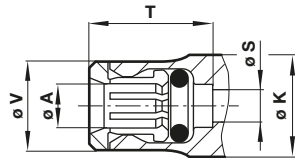
3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.

4. To disconnect push the tube into the fitting, hold down the collet and withdraw the tube.



Technical data

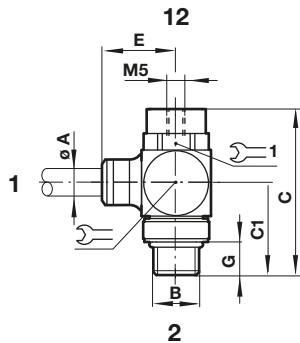
Ø A O/D tube	Ø S	Ø T *1)	V	Ø K
4	2,8	14	7,5	10
6	4,4	15,5	11	12
8	6	16,5	13	14
10	7,6	21	14,5	17
12	9,6	24,5	18	20,5



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

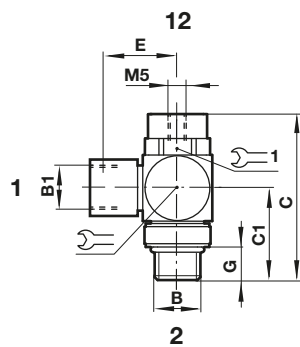
Push-in fitting x BSPP thread

Dimensions in mm
Projection/First angle



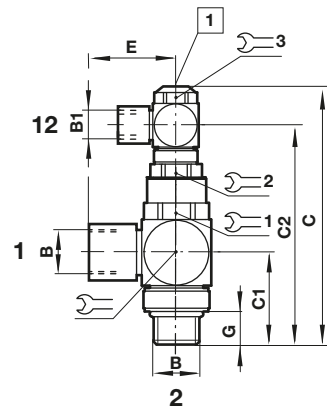
Ø A	B	C	C1	E	G			Model
4	G1/8	41	20	22	6	13	16	102GA0418
6	G1/8	41	20	23	6	13	16	102GA0618
6	G1/4	48	26	25	10,5	17	20	102GA0628
8	G1/4	48	26	26	10,5	17	20	102GA0828
8	G3/8	55	29	28	10,8	22	24	102GA0838
10	G3/8	55	29	32,5	10,8	22	24	102GA1038
12	G1/2	65,5	36	39,5	12,8	27	30	102GA1248

BSPP thread x BSPP thread



Ø A	B/B1	C	C1	E	G			Model
G1/8	G1/8	41	20	17,5	6	13	16	102GA1818
G1/8	G1/4	48	26	20	10,5	17	20	102GA1828
G1/4	G1/4	48	26	24,5	10,5	17	20	102GA2828
G3/8	G3/8	55	29	27	10,5	22	24	102GA3838
G1/2	G1/2	65,5	36	34	12,5	27	30	102GA4848

BSPP thread x BSPP thread and manual override



B	B1	C	C1	C2	E	G			Model
G1/4	G1/8	80	26	64,5	24,5	10,5	20 / 17	13 / 13	102GH2828X2
G3/8	G1/8	87	29	74,5	27	10,5	24 / 22	17 / 13	102GH3838X2
G1/2	G1/8	97	36	84,5	34	12,5	30 / 27	17 / 13	102GH4848X2

1 Manual override

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.