102GD
Pressure sensor valve

- Port size: Ø 4 mm, G1/8 & G1/4
- Very compact units
- Easy tube insertion for rapid assembly of pneumatic circuits
- Positive tube anchorage
- Simpler pneumatic systems
- Eliminates need for electrical sensors on actuators



Technical features

Medium:
Compressed air

Operation:
Used to provide an air signal when a cylinder has reached the end of travel, sensor fittings operate by detecting the drop in exhaust pressure at the end of a stroke. They effectively offer an allpneumatic option to the electrical reed switch, and can be used in 1/8 and 1/4 BSP cylinder ports.

Operating pressure:
10 bar (145 psi) max. (cylinder pressure)
3 ... 10 bar (43 ... 145 psi) (sensor supply pressure)

Tube size:
4 mm

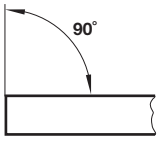
Thread size:
G1/8 & G1/4

Tube types:
Nylon 11 or 12, polyurethane and other plasticised or unplasticised tubing

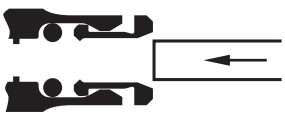
Ambient/Media temperature:
-20°C ... +80°C (-4 ... +176°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

Materials
Body: PA
Banjo bolt: nickel plated brass
Washer: NBR and PU

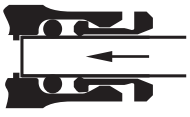
Method of assembly



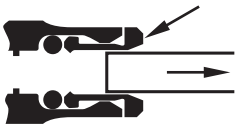
1. Ensure that the end of the tube is cut square and is free from burrs.



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

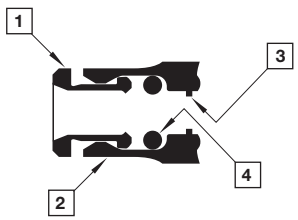


3. Continue pushing the tube through the 'O'-ring until it bottoms on the tube stop then pull back.



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

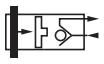
Components



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

Our policy is one of continued research and development. We therefore reserve the right to amend, without notice, the specifications given in this document. (1997 - 5228c) © 2024 Norgren GmbH.

Technical data

Symbol	O/D tube 1 (mm)	Port size 2	Model
	4	G1/8	102GD0418
	4	G1/4	102GD0428

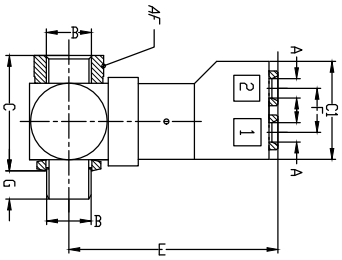
Options selector

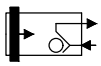
102GD04★★

Port size	Substitute
G1/8	18
G1/4	28

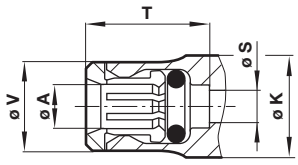
Dimensions

Dimensions in mm
Projection/First angle





ØA	B	C	C1	E	F	G	AF	Weight (g)	Model
4	G1/8	25	21	45.2	9.5	5.5	15	376	102GD0418
4	G1/4	29	21	47.2	9.5	6.5	19	550	102GD0428



Technical data

Ø A O/D tube	Ø S	Ø T *1)	V	Ø K
4	2,8	14	7,5	10

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

Warning

These products are intended for use in industrial compressed air and rail transport 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 Norgren Ltd.

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.

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