

PNEUFIT FUNCTION FITTINGS

4 to 12 mm O/D metric tube - 1/8" to 1/2" BSPP



Very compact units
Easy tube insertion for rapid assembly of pneumatic circuits
Positive tube anchorage
Simpler pneumatic systems

TECHNICAL DATA

Medium:

Compressed air

Operating pressure:

Blocking fitting:

Supply pressure 1 to 10 bar

Pilot pressure – see table

Pressure reducing fitting:

Primary pressure 1 to 10 bar max.

Secondary pressure 1 to 8 bar max.

Pneumatic sensor fitting:

Cylinder pressure (Pc) 10 bar max.

Sensor supply pressure 3 to 10 bar

Sensor switch pressure 0,6 bar typ

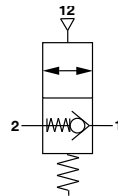
Ambient temperature:

-20°C to +80°C

Consult our Technical Service for use below +2°C

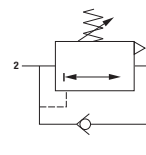
Pilot operated check valve (blocking fitting)

O/D Tube	Male BSPP	Pilot pressure (bar)*	MODELS
4	1/8	2,5	102GA0418
6	1/8	2,5	102GA0618
6	1/4	2,5	102GA0628
8	1/4	2,5	102GA0828
8	3/8	3	102GA0838
10	3/8	3	102GA1038
12	1/2	2,5	102GA1248



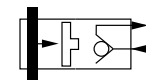
Pressure reducing fitting

O/D Tube	Male BSPP	MODELS
4	1/8	102GB0418
6	1/4	102GB0628
8	1/4	102GB0828
8	3/8	102GB0838
10	3/8	102GB1038



Pneumatic sensor fitting

O/D Tube	Male BSPP	MODELS
4	1/8	102GD0418
4	1/4	102GD0428



Tube types:

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

MATERIALS

Nickel plated brass or plastic glass filled nylon body

Nickel plated brass collet

Plastic sealing washer

Nitrile and polyurethane elastomeric parts

Zinc plated brass banjo bolts

ALTERNATIVE MODELS

Alternative range of NPTF are available. Consult our Technical Service for details.

PILOT OPERATED CHECK VALVE (BLOCKING FITTING)

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.

PRESSURE REDUCING FITTING

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.

PNEUMATIC SENSOR FITTING

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 all-pneumatic option to the electrical reed switch, and can be used in 1/8 and 1/4 BSP cylinder ports.

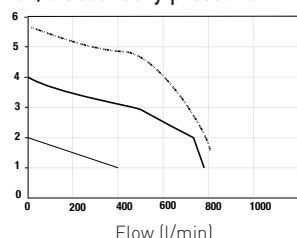
For further information



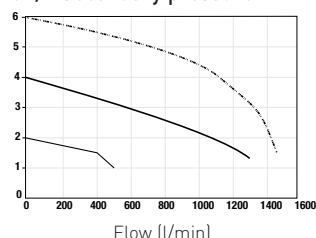
www.norgren.com/info/en7-080

Flow characteristics for pressure reducing fitting 102GB

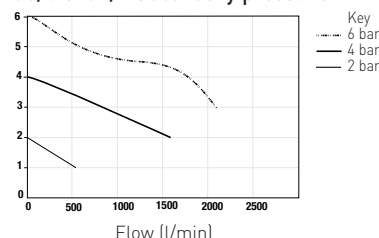
G1/8 Secondary pressure



G1/4 Secondary pressure



G3/8 & G1/2 Secondary pressure



Pilot operated check valve (blocking fitting) - Push-in fitting x BSPP thread

A O/D Tube	B Thread	C	E	F	G	J	K	SW	SW1	Pilot port	MODELS
4	1/8	41,0	19,8	22,2	6,3	12,0	10	16	13	M5	102GA0418
6	1/8	41,0	19,8	23,2	6,3	12,0	12,5	16	13	M5	102GA0618
6	1/4	48,0	25,8	25,2	10,5	15,5	13	20	17	M5	102GA0628
8	1/4	48,0	25,8	26,2	10,5	15,5	14	20	17	M5	102GA0828
8	3/8	55,0	29,0	28,2	10,8	19,5	14	24	22	M5	102GA0838
10	3/8	55,0	29,0	32,7	10,8	19,5	17	24	22	M5	102GA1038
12	1/2	65,5	36,0	39,7	12,8	24	20,5	30	27	M5	102GA1248

Note: For mounting in pairs on a cylinder

Pilot operated check valve (blocking fitting) - BSPP thread x BSPP thread

A female Thread	B Thread	C	E	F	G	SW	SW1	Pilot port	MODELS
1/8	1/8	41,0	19,8	17,5	6,3	16	13	M5	102GA1818
1/8	1/4	48,0	25,8	17,5	10,5	20	17	M5	102GA1828
1/4	1/4	48,0	25,8	17,5	10,5	20	17	M5	102GA2828
3/8	3/8	55,0	29,0	17,5	10,8	24	22	M5	102GA3838
1/2	1/2	65,5	36,0	17,5	12,8	30	27	M5	102GA4848

Note: For mounting in pairs on a cylinder

Pressure reducing fitting - Push-in fitting x BSPP thread

A O/D Tube	B Thread	C	E	F	G	J	K	SW	SW1	SW3	MODELS
4	1/8	73,0	19,8	22,5	6,5	12,0	10	16	17	5	102GB0418
6	1/4	81	25,8	25,2	10,5	15,5	13	20	17	5	102GB0628
8	1/4	81	25,8	26,2	10,5	15,5	14	20	17	5	102GB0828
8	3/8	88	29,0	28,2	10,8	19,5	14	24	22	6	102GB0838
10	3/8	88	29,0	32,7	10,8	19,5	17	24	22	6	102GB1038

Note: For mounting in ports 2 & 4 of a control valve

Pressure reducing fitting - BSPP thread x BSPP thread

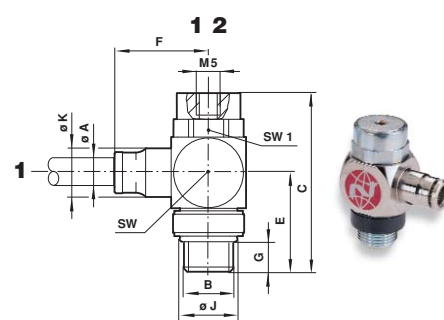
A female thread	B Thread	C	E	F	G	SW a/f	SW1 a/f	SW3 a/f	MODELS
1/8	1/8	73,0	19,8	17,5	6,3	16	17	5	102GB1818
1/4	1/4	81,0	25,8	24,5	10,5	20	17	5	102GB2828
3/8	3/8	88,0	29,0	27,0	10,8	24	22	6	102GB3838
1/2	1/2	89,0	36,0	34,0	9,5	30	27	6	102GB4848

Note: For mounting in ports 2 & 4 of a control valve

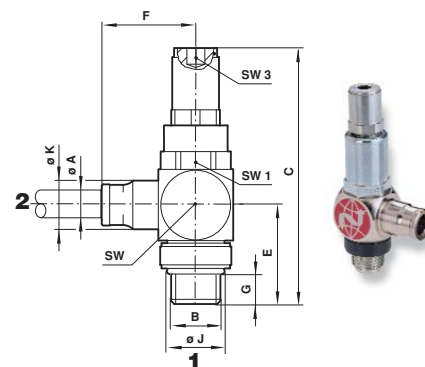
Pressure sensor fitting- Push-in fitting x BSPP thread

A O/D Tube	B Thread	C	D	E Thread	F	G	H	I	J a/f	MODELS
4	1/8	8,5	45,2	1/8	9,5	5,6	21,0	24,9	15	102GD0418
4	1/4	10,5	47,2	1/4	9,5	6,5	21,0	29,0	19	102GD0428

This sensor fitting produces an end of stroke signal when exhaust back pressure in a cylinder decays below a set value. It should be mounted directly on the cylinder and can be used with a flow control device mounted into the top port. It is recommended that the sensor supply pressure to port 1 be the same as the nominal working pressure of the cylinder.



- 1) Inlet port
- 2) Outlet port - cylinder
- 12) Pilot port



- 1) Inlet port - valve
- 2) Outlet port

