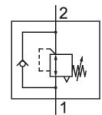


AVENTICS Series SR1, Screw-in pressure regulators

Energy-saving valves for direct fitting on the cylinder

- Qn max. 750 l/min
- Width: 11 mm ... 25 mm
- external thread / push-in fitting
- Internal thread / External thread
- Plug-in with tube nut / External thread



Technical data

Industry

Industrial

Type

Push-in fitting

Type

Poppet valve

Compressed air connection input

G 1/8

Compressed air connection type input

External thread

Compressed air connection output

Ø 8

Compressed air connection type output

Push-in fitting

Min. working pressure

1 bar

Max. working pressure

16 bar

Min. regulation range

1 bar

Max. regulation range

8 bar

Min. ambient temperature

-10 °C

Max. ambient temperature

70 °C

Min. medium temperature

-10 °C

Max. medium temperature

70 °C

Medium

Compressed air

Qn 1 > 2

600 l/min

Weight

0.105 kg

Material

Housing material

Brass

Polyamide

Surface housing

galvanized

Seal material

Acrylonitrile butadiene rubber

Part No.

0821302087

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

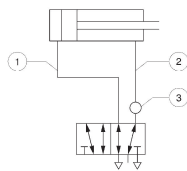
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

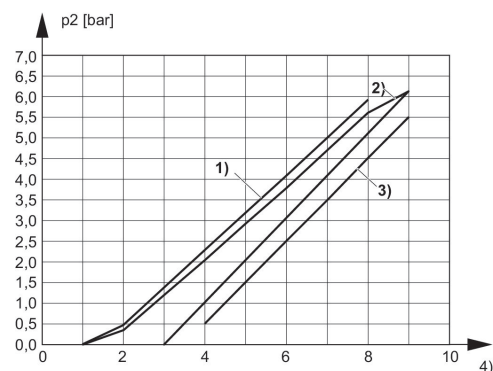
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

Application example



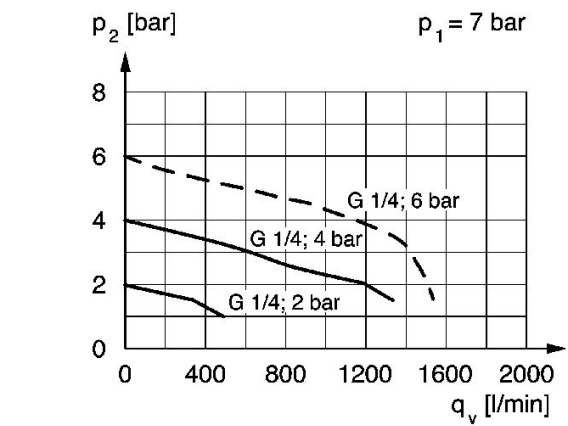
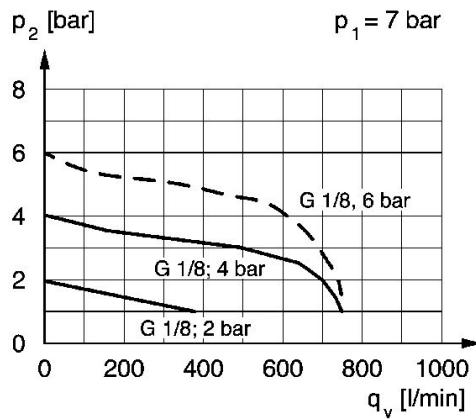
1) e.g. forward stroke with max. pressure 2) return stroke with reduced pressure 3) installation point on directional control valve
At low tightening torque, the sealing ring enables the banjo union to swivel through 360°. Further tightening locks the banjo union into position.
Adjust pressure via adjustment screw with hexagon socket. Lock using counter nuts.

Hysteresis



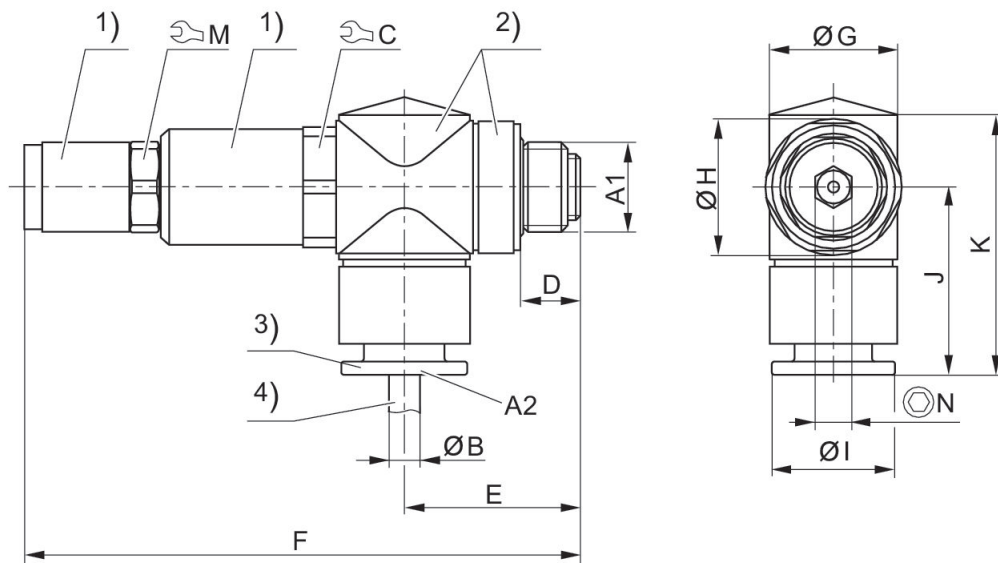
- 1) Overfill hysteresis
- 2) Control hysteresis
- 3) Refill hysteresis
- 4) Adjustment screw rotations

Pressure characteristics curve (flow rate from 1 to 2)



p_1 = working pressure, p_2 = secondary pressure, q_v = nominal flow

Fig. 1

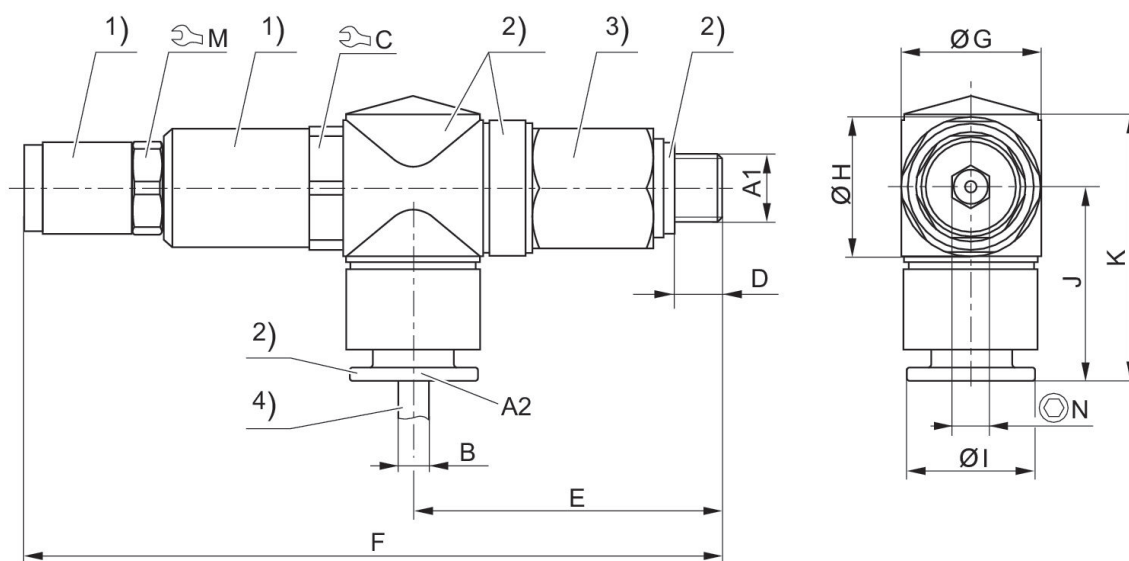


1) galvanized brass 2) polyamide 3) polyamide 4) tubing
A1 = input A2 = output

Part No.	A1	A2	C	D	E	F	G	H	I	J
0821302083	G 1/8	4	17	6.3	19.8	70.8	11	15	9,4	22,3
0821302084	G 1/8	6	17	6.3	19.8	70.8	13	15	11,4	25
0821302085	G 1/8	8	17	6.3	19.8	70.8	14	15	13,8	26.4
0821302088	G 1/4	6	17	9.5	25.8	78.8	13	19	11,4	26.8
0821302089	G 1/4	8	17	9.5	25.8	78.8	18	19	13,8	28.2
0821302090	G 1/4	10	17	9.5	25.8	78.8	18	19	16,4	28.9

Part No.	K	M	N
0821302083	32	13	5
0821302084	35	13	5
0821302085	36.5	13	5
0821302088	38.9	13	5
0821302089	41	13	5
0821302090	41.7	13	5

Fig. 2



1) galvanized brass 2) polyamide 3) galvanized brass 4) tubing
A1 = input A2 = output

Part No.	A1	A2	C	D	E	F	M	I	J	K
0821302086	G 1/8	6	17	6.5	42.3	95.3	13	11.4	27	39
0821302087	G 1/8	8	17	6.2	42.3	95.3	13	13.8	28.2	41