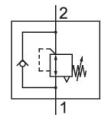


AVENTICS Series SR1, Screw-in pressure regulators

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 1/4
Compressed air connection type input	External thread
Compressed air connection output	Ø 10
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	0.08 kg

Material

Housing material

Brass

Polyamide

Surface housing

galvanized

Seal material

Acrylonitrile butadiene rubber

Part No.

0821302090

Technical information

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

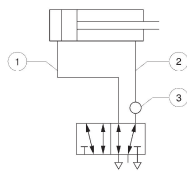
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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.

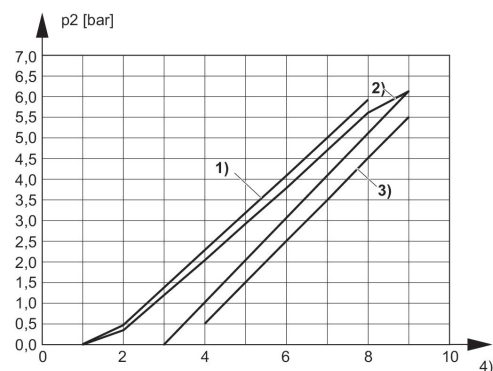
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

Application example



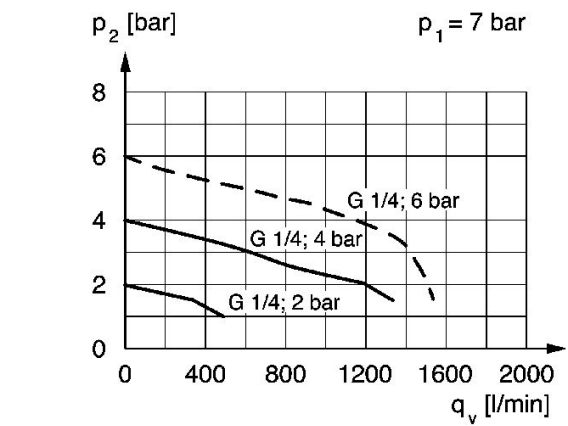
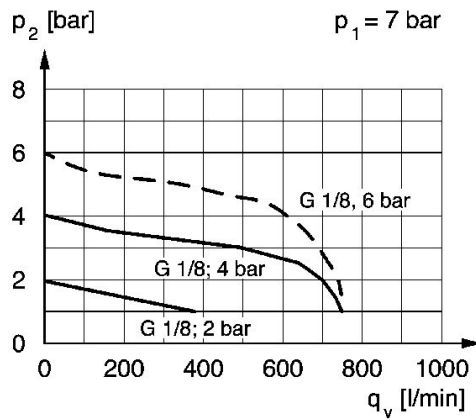
1) e.g. forward stroke with max. pressure 2) return stroke with reduced pressure 3) installation point on directional control valve
At low tightening torque, the sealing ring enables the banjo union to swivel through 360°. Further tightening locks the banjo union into position. Adjust pressure via adjustment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

Hysteresis



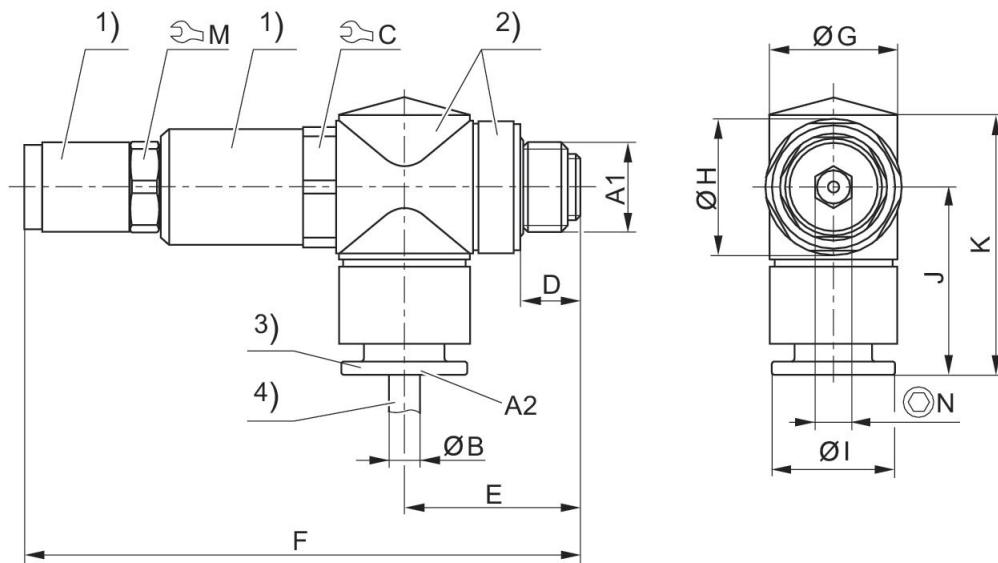
- 1) Overfill hysteresis
- 2) Control hysteresis
- 3) Refill hysteresis
- 4) Adjustment screw rotations

Pressure characteristics curve (flow rate from 1 to 2)



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

Fig. 1

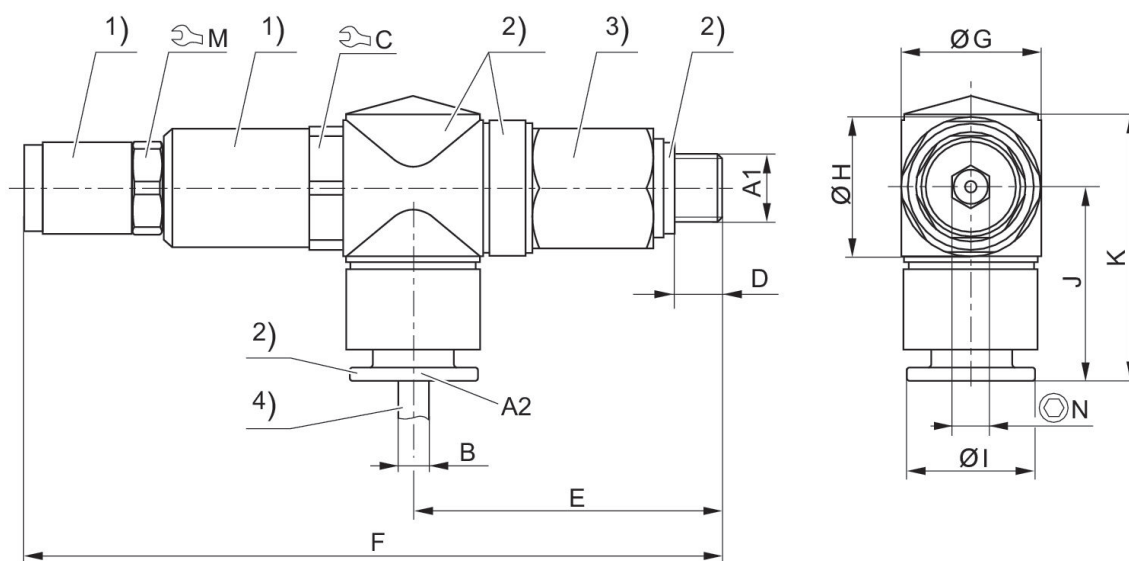


1) galvanized brass 2) polyamide 3) polyamide 4) tubing
A1 = input A2 = output

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