

Preparation of compressed air ► Maintenance units and components

Precision pressure regulator, Series PR1-RGP

► G 3/8 - G 1/2 ► Qn= 5600 l/min ► Activation: pneumatically ► cold-resistant



00118673

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-35°C / +60°C
Ambient temperature min./max.	-35°C / +60°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.05 bar / 10 bar
Pressure supply	single
Control pressure max.	10 bar
Max. Internal air consumption	6 l/min
Materials:	
Housing	Die cast zinc
Seals	Chloroprene rubber

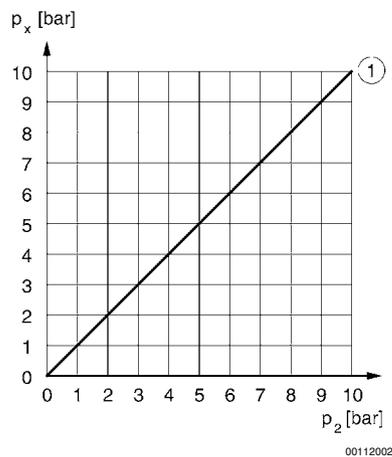
Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Relieving exhaust (≤ 10 mbar over set pressure)
- Recommended pre-filtering: 0.01 μ m

	Port	Qn [l/min]	Weight [kg]	Part No.
	G 3/8	5600	1.26	0821302052
	G 1/2			0821302055

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

control pressure characteristic

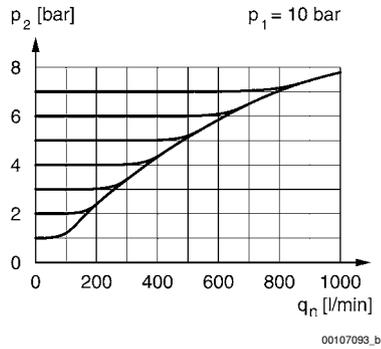


px = control pressure; p2 = secondary pressure; 1) pneumatically operated

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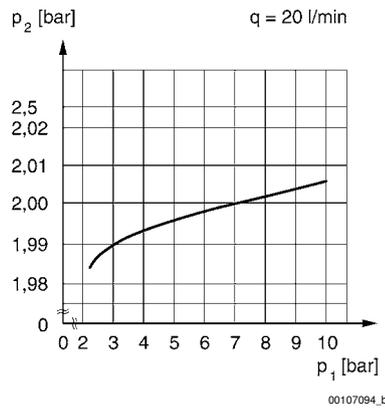
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exhaust characteristics (contact limit < 10 mbar)



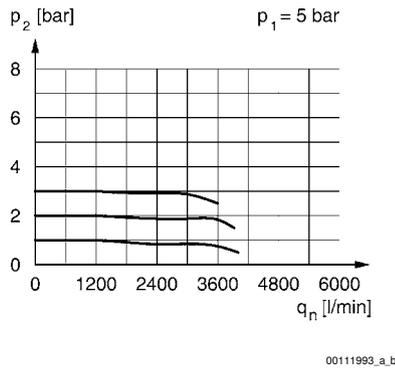
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Pressure characteristics curve



p_1 = working pressure; p_2 = secondary pressure; q = flow rate

Flow rate characteristic, $p_2 = 0,05 - 3$ bar

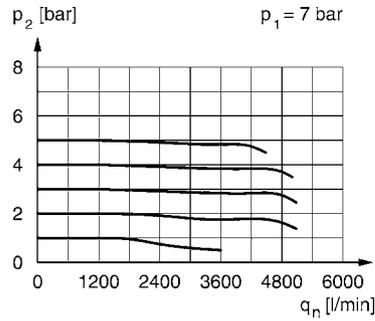


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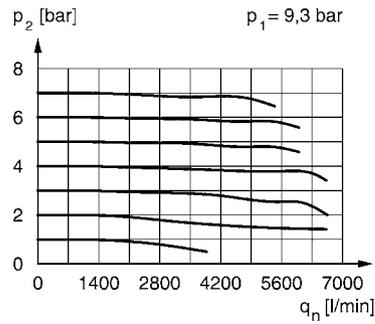
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p₂ = 0,05 - 5 bar



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p₂ = 0,05 - 7 bar



00111993

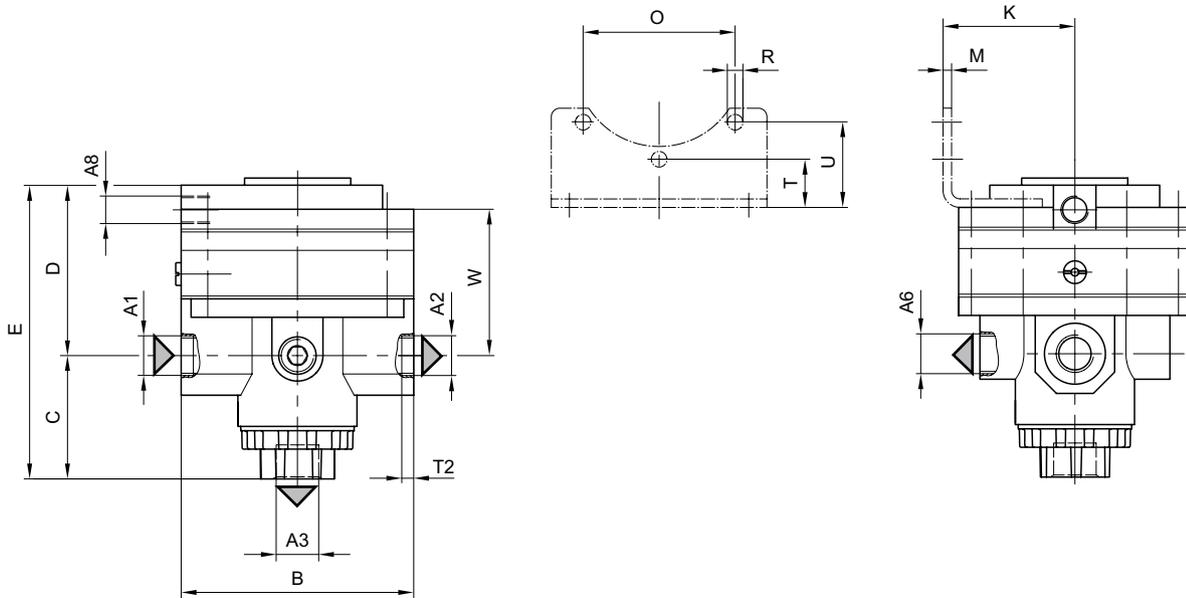
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p₁ = Working pressure
 p₂ = Secondary pressure
 q_n = Nominal flow

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Dimensions



00107255

A1	A2	A3 1)	A6 2)	A8 3)	B	C	D	E	K	M	O	R	T
G 3/8	G 3/8	G 3/8	G 1/4	G 1/8	82	43.5	65.5	108	47	3	54	4	17
G 1/2	G 1/2	G 3/8	G 1/4	G 1/8	82	43.5	65.5	108	47	3	54	4	17

A1	T2	U	W										
G 3/8	16	30	51										
G 1/2	16	30	51										

- 1) Relieving exhaust
- 2) Pressure gauge connection
- 3) Pilot connection