

Preparation of compressed air ► Maintenance units and components

Precision pressure regulator, Series PR1-RGP

► G 1/4 ► Qn= 450 - 1000 l/min ► Activation: mechanical



00106988

Mounting orientation	Any
Working pressure min./max.	0.5 bar / 16 bar
Medium	Compressed air Neutral gases
Medium temperature min./max.	-10°C / +60°C
Ambient temperature min./max.	-10°C / +60°C
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Materials:	
Housing	Brass
Seals	Acrylonitrile Butadiene Rubber

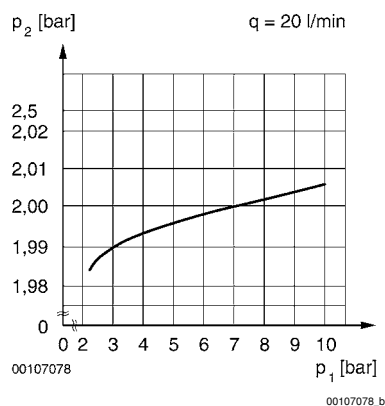
Technical Remarks

- 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)
- Mounting: mounting bracket 1821332056 or installation in piping
- Recommended pre-filtering: 0.01 μm

	Port	Qn	Adjustment range min. - max..	Internal air con- sumption q_v	Weight	Part No.
		[l/min]	[bar]	[l/min]	[kg]	
	G 1/4	450	0.05 - 2	2.2	0.616	0821302445
		580	0.05 - 4	3		0821302446
		1000	0.05 - 7	4.1		0821302447

Nominal flow Qn with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

Pressure characteristics curve

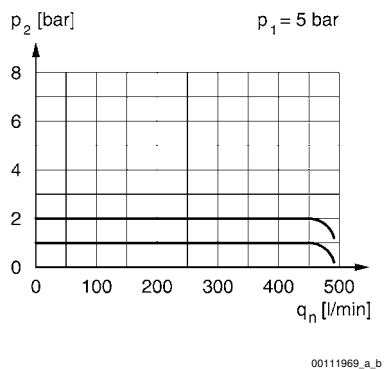


p_1 = working pressure; p_2 = secondary pressure; q = flow rate

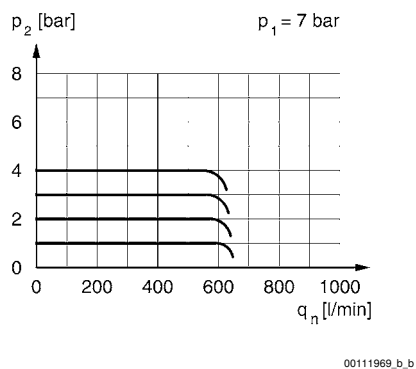
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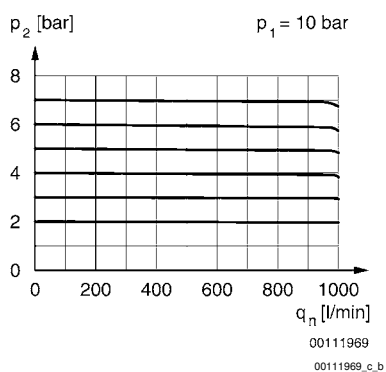
Flow rate characteristic, p₂ = 0,05 - 2 bar



p₂ = 0,05 - 4 bar



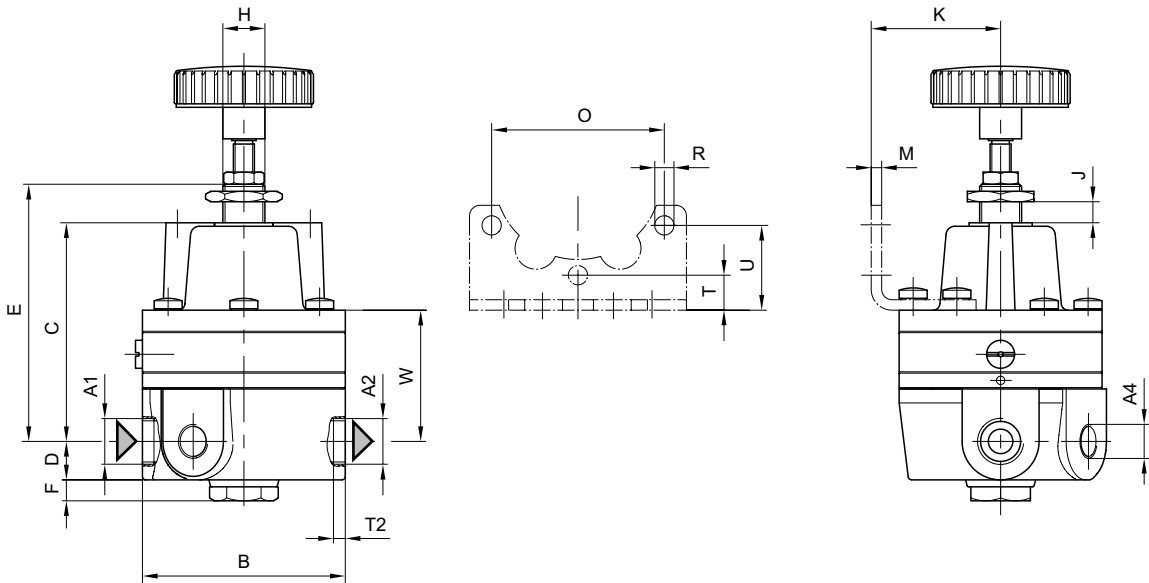
p₂ = 0,05 - 7 bar



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

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Dimensions



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A1	A2	A4	B	C	D	E	F	H	J	K	M	O	R
G 1/4	G 1/4	G 1/8	58	66	11	78	6	M12x1	6	37	3	49.4	5
A1	T	T2	U	W									
G 1/4	10	12	24.3	41.5									