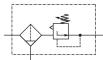
Series PR1 2024-01-25

Series PR1

The AVENTICS Series PR1/PR2 is designed for applications that demand fast responses to the slightest fluctuation in compressed air. They can be adjusted precisely and are an alternative to electronic pressure regulators. Precision pressure regulators are used to achieve extremely accurate pressure control independent from the pilot pressure and the flow rate. They offer high performance and flexibility, combined with increased reliability.





Technical data
Industry
Parts
Reservoir
Port
Nominal flow Qn
Filter porosity
Condensate drain
Min. working pressure
Max. working pressure
Min. ambient temperature
Max. ambient temperature
Min. regulation range
Max. regulation range
Туре
Pressure supply
Mounting orientation
Regulator type
Regulator function
Max. Internal air consumption

Industrial Precision filter pressure regulator Metal reservoir without window G 1/4 750 l/min 10 µm Manual 0.2 bar 16 bar -10 °C 60 °C 0.1 bar 2 bar 1-part single vertical Diaphragm-type pressure regulator with relieving air exhaust 0.01 l/min



0821300410		
Filter element	exchangeable	
Filter reservoir volume	11.5 cm³	
Medium	Compressed air Neutral gases	
Max. particle size	5 µm	
Weight	0.975 kg	
Material		
Housing material	Die cast zinc	
Seal material	Acrylonitrile butadiene rubber	
Material reservoir	Die cast zinc	
Material filter insert	Polyethylene	
Part No.	0821300410	

Technical information

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

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

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

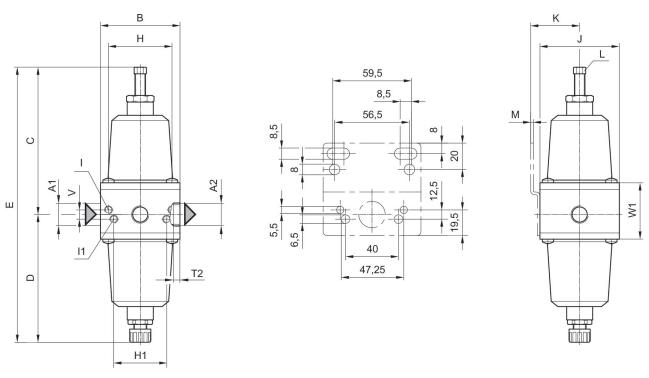
The oil content of compressed air must remain constant during the life cycle.

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).



Series PR1 2024-01-25

0821300410 Dimensions



A1 = input A2 = output

Dimensions in mm

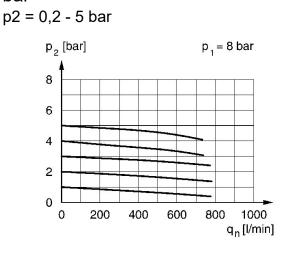
Part No.	A1	A2	В	С	D	E	Н	H1	I
0821300410	G 1/4	G 1/4	60	120	96	216	48	40	M5
0821300411	G 1/4	G 1/4	60	120	96	216	48	40	M5
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Part No.	11	J	К	L	М	T2	V	W1	
0821300410	M6	60	37	8	2	6	7	42.5	
0821300411	M6	60	37	8	2	6	7	42.5	



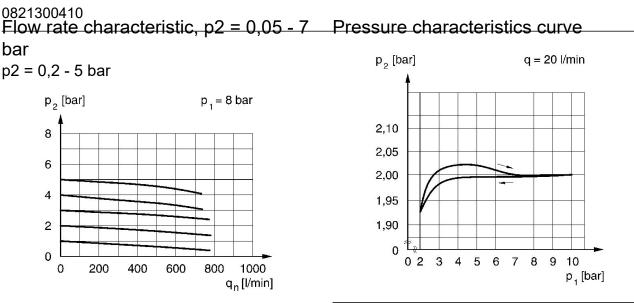
Series PR1

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bar



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



p1 = working pressure p2 = secondary pressure q = flow rate

