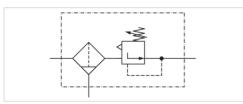


# Precision filter pressure regulator, Series PR1-FRE

- G 1/4
- filter porosity 10 µm





Type 1-part

Parts Precision filter pressure regulator

Mounting orientation vertical

Working pressure min./max. 0,2 ... 16 bar

Ambient temperature min./max. -10 ... 60 °C

Medium temperature min./max. -10 ... 60 °C

Medium Compressed air Neutral gases

Max. particle size  $$5~\mu m$$  Nominal flow Qn \$750~l/min\$

Regulator type Diaphragm-type pressure regulator

Regulator function with relieving air exhaust

Adjustment range min./max. See table below

Pressure supply single
Filter reservoir volume 11,5 cm³
Filter element exchangeable
Condensate drain Manual
Max. Internal air consumption 0,01 l/min

Weight 0,975 kg

## Technical data

Part No.	Port	filter porosity	Flow	Adjustment range min./max.	Condensate drain			
			Qn					
0821300410	G 1/4	10 μm	750 l/min	0,1 2 bar	Manual			
0821300411	G 1/4	10 μm	750 l/min	0,2 5 bar	Manual			

Nominal flow with secondary pressure 6.3 bar at  $\Delta p = 1$  bar

### Technical information

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

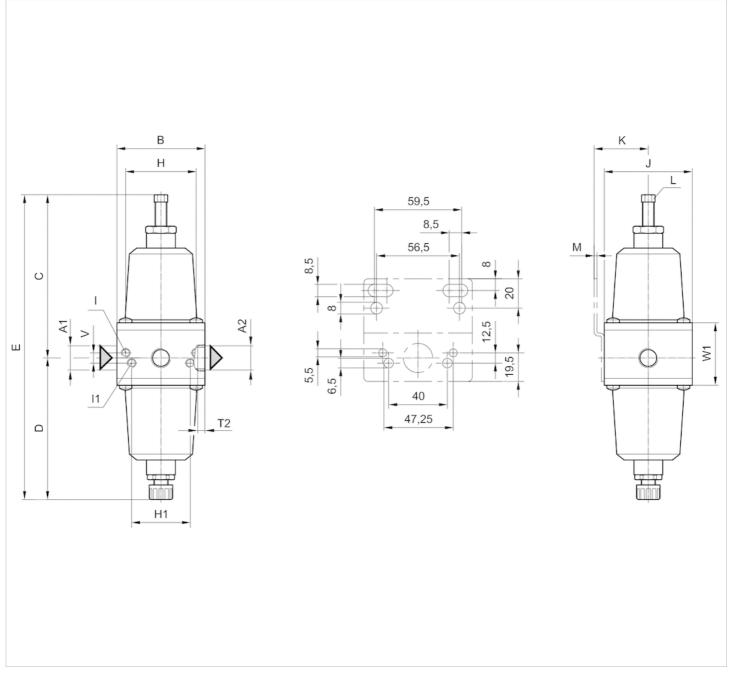
# Technical information

Material							
Housing	Die cast zinc						
Seals	Acrylonitrile butadiene rubber						
Reservoir	Die cast zinc						
Filter insert	Polyethylene						



# Dimensions

#### Dimensions



A1 = input A2 = output

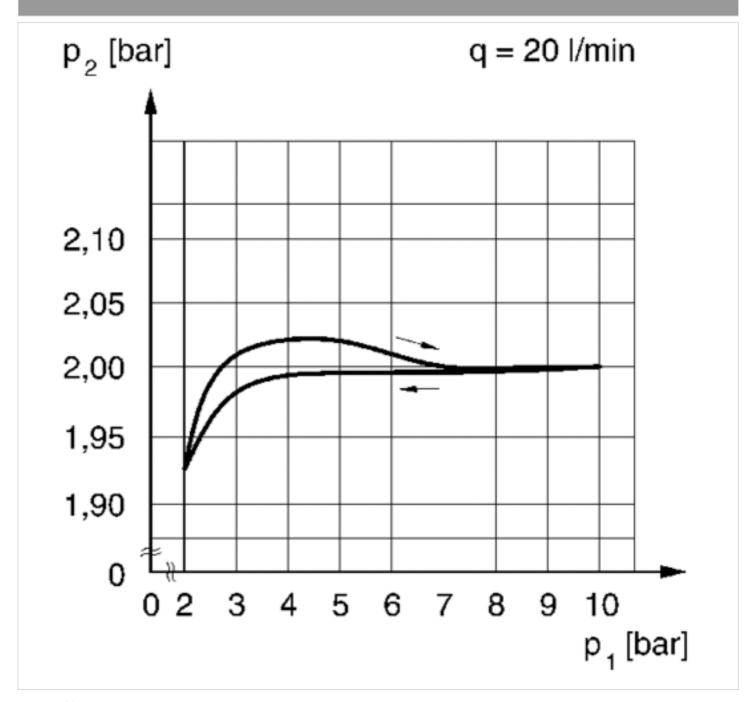
#### Dimensions in mm

A1	A2	В	С	D	Е	Н	H1	1	l1	J	K	L	М	T2	V	W1
G 1/4	G 1/4	60	120	96	216	48	40	M5	M6	60	37	8	2	6	7	42.5



# Diagrams

# Pressure characteristics curve



p1 = working pressure

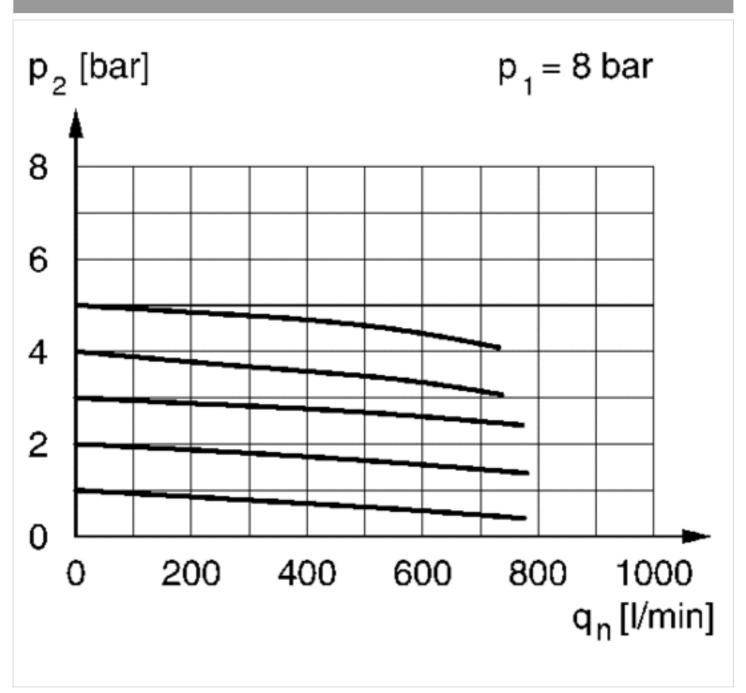
p2 = secondary pressure

q = flow rate





# Flow rate characteristic, p2 = 0,2 - 5 bar

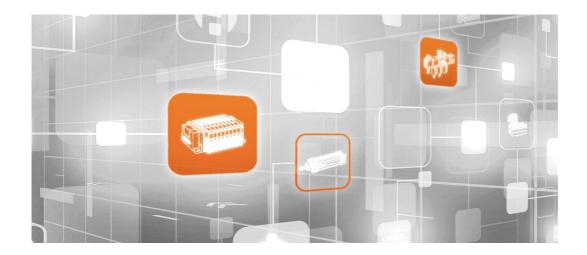


p1 = Working pressure

p2 = Secondary pressure

qn = Nominal flow

# Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



Visit us: Emerson.com/Aventics

Your local contact: Emerson.com/contactus



Emerson.com



Facebook.com/EmersonAutomationSolutions



LinkedIn.com/company/Emerson-Automation-Solutions



Twitter.com/EMR\_Automation

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. This Document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS GmbH. It may not be reproduced or given to third parties without its consent. Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product. Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product. The data specified only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the user from the obligation of own judgement and verification. It must be remembered that the products are subject to a natural process of wear and again.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Brand logotype are registered trademarks of one of the Emerson family of companies. All other marks are the property of their respective owners. 

2020 Emerson Electric Co. All rights reserved.

