Precision pressure regulator, Series AS3-RGP R412007144

Series AS3

The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.





Technical data Industry Function Parts Pressure gauge Mounting orientation Regulator type Port Nominal flow Qn Min. regulation range Max. regulation range Min. working pressure Max. working pressure Min. ambient temperature Max. ambient temperature Activation **Regulator function** Regulator type Pressure supply Lock type

Industrial Precision pressure regulator Precision pressure regulator without pressure gauge Any Diaphragm-type pressure regulator G 3/8 4300 l/min 0.5 bar 10 bar 0.5 bar 16 bar -10 °C 50 °C Mechanical with relieving air exhaust Can be assembled into blocks single for padlocks



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Max. internal air consumption q_v Medium

Min. medium temperature Max. medium temperature Weight 2.6 l/min Compressed air Neutral gases -10 °C 50 °C 0.528 kg

Material

Housing material	Polyamide
Material front plate	Acrylonitrile butadiene styrene
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Part No.	R412007144

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 rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Recommended pre-filter: 5 µm

Order pressure gauge separately

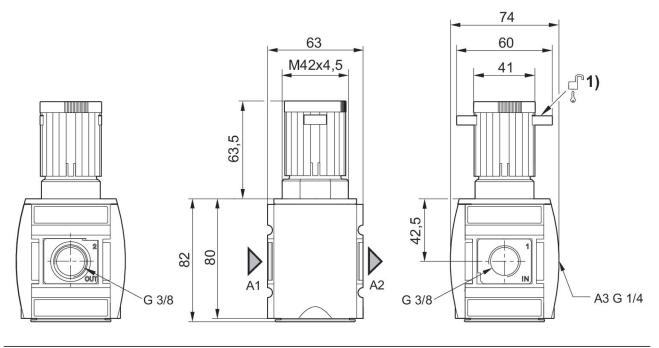


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Series AS3 2024-04-16

Dimensions in mm

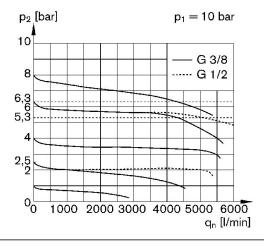


A1 = input

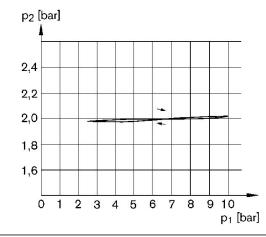
A2 = output

A3 = pressure gauge connection 1) Mounting option for padlocks, max. shackle Ø 8

Flow rate characteristic (p2: 0,5 - 8 bar)



Pressure characteristics curve



p1 = Working pressure

p2 = Secondary pressure

p1 = Working pressure

p2 = Secondary pressure

qn = Nominal flow

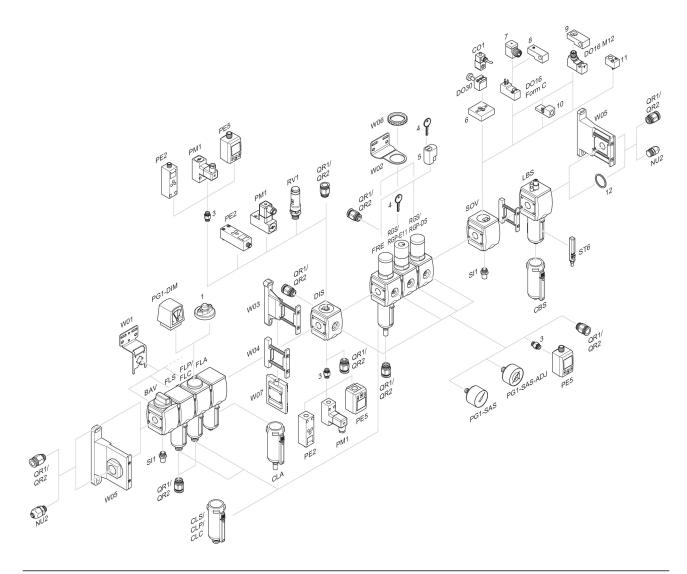


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Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

