

Pressure regulator, Series AS3-RGS

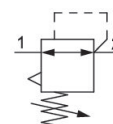
R412007116

Series AS3

2024-05-13

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

Industrial

Function

Standard pressure regulator

Parts

Pressure regulator

Pressure gauge

without pressure gauge

Mounting orientation

Any

Regulator type

Diaphragm-type pressure regulator

Port

G 1/2

Nominal flow Qn

5000 l/min

Min. regulation range

0.2 bar

Max. regulation range

4 bar

Min. working pressure

0.2 bar

Max. working pressure

16 bar

Min. ambient temperature

-10 °C

Max. ambient temperature

50 °C

Activation

Mechanical

Regulator function

with relieving air exhaust

Regulator type

Can be assembled into blocks

Pressure supply

single

Lock type

for padlocks

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Medium	Compressed air Neutral gases
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Weight	0.528 kg

Material

Housing material	Polyamide
Material front plate	Acrylonitrile butadiene styrene
Seal material	Acrylonitrile butadiene rubber
Part No.	R412007116

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 Q_n with secondary pressure $p_2 = 6$ 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).

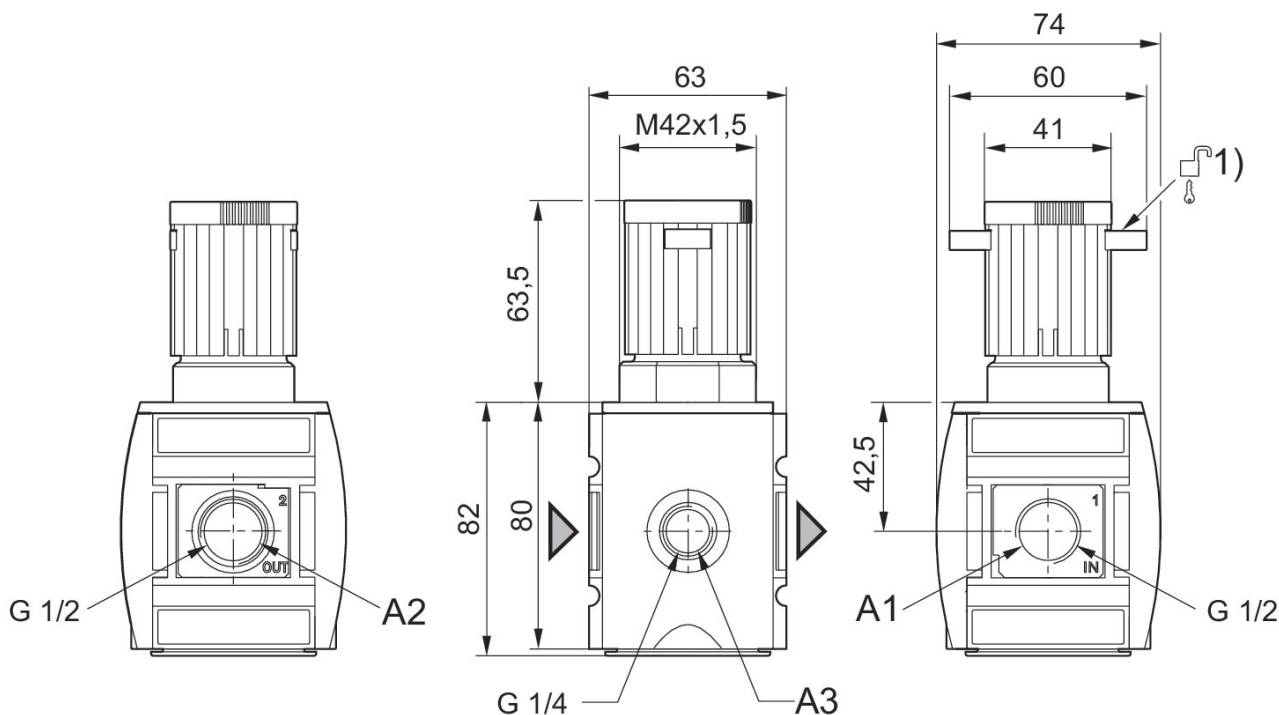
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Relieving exhaust (≤ 0.3 bar over set pressure)

With rear exhaust (>3 bar)

Pressure gauge enclosed separately

Dimensions in mm



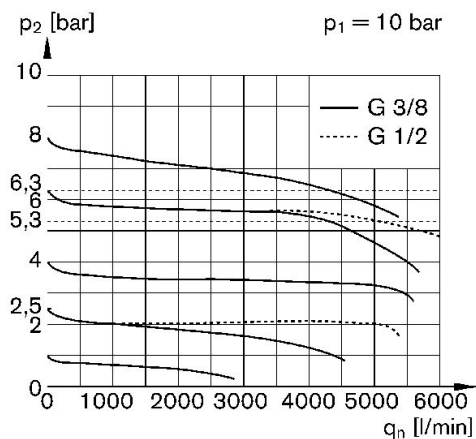
A1 = input

A2 = output

A3 = pressure gauge connection

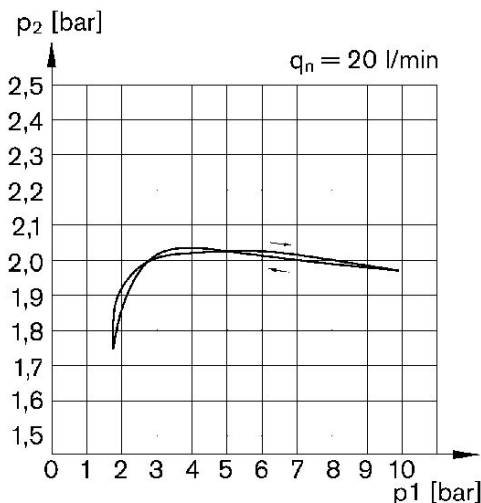
1) Mounting option for padlocks, max. shackle Ø 8

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



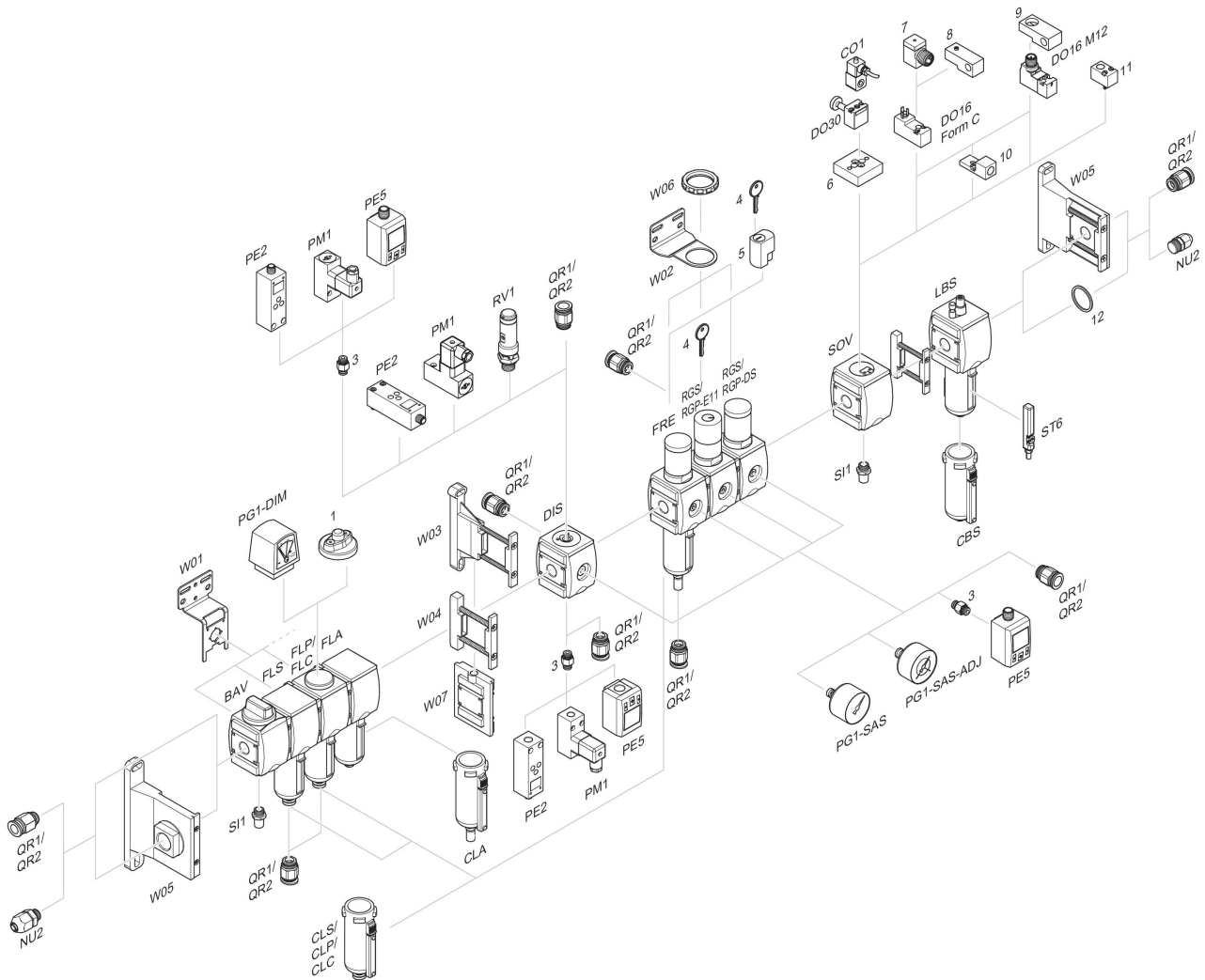
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Pressure characteristics curve Standard version



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

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