

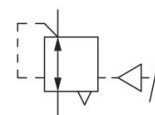
# Pressure regulator, Series AS3-RGS

2024-03-20

R412007094

## 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 3/8
Nominal flow Qn	6500 l/min
Min. regulation range	0.5 bar
Max. regulation range	16 bar
Min. working pressure	0 bar
Max. working pressure	16 bar
Min. ambient temperature	0 °C
Max. ambient temperature	50 °C
Activation	Pneumatically
Regulator function	with relieving air exhaust
Regulator type	Can be assembled into blocks
Pressure supply	single
Medium	Compressed air Neutral gases

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Min. medium temperature	0 °C
Max. medium temperature	50 °C
Weight	0.579 kg

## Material

Housing material	Polyamide
Material front plate	Acrylonitrile butadiene styrene
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Part No.	R412007094

## 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 ( $\leq 0.3$  bar over set pressure)

With rear exhaust ( $>3$  bar)

Control pressure: see diagram

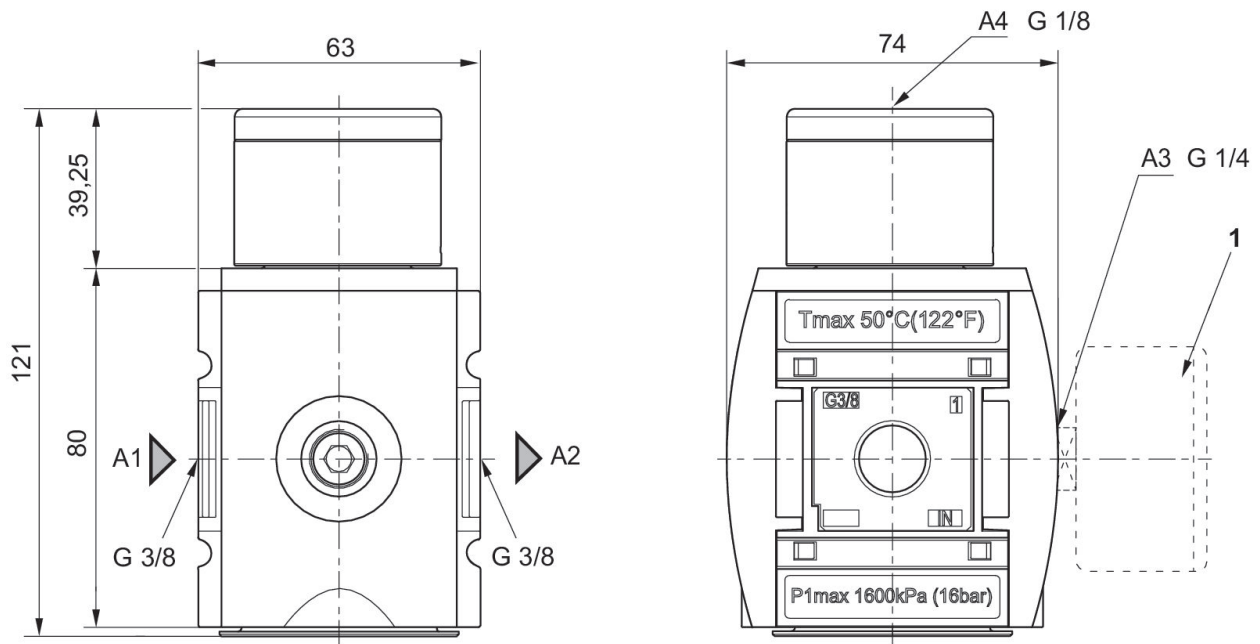
Order pressure gauge separately

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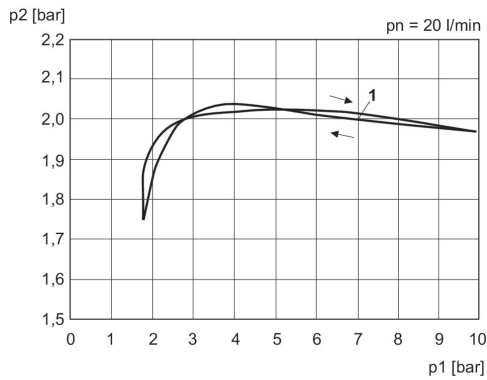
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## Dimensions in mm



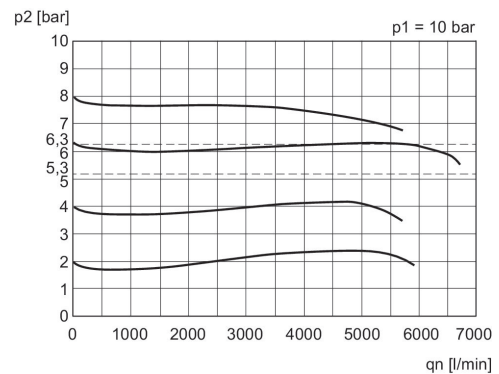
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = control pressure connection
- 1) Order pressure gauge separately

## Pressure characteristics curve



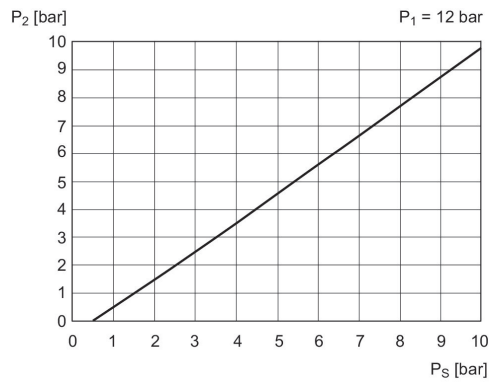
- $p_1$  = Working pressure
- $p_2$  = Secondary pressure
- $q_n$  = Nominal flow
- 1) Starting point

## Flow rate characteristic ( $p_2$ : 0,5 - 8 bar)



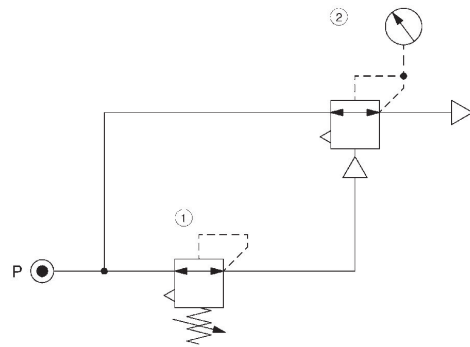
- $p_1$  = Working pressure
- $p_2$  = Secondary pressure
- $q_n$  = Nominal flow

## control pressure characteristic



$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $P_S$  = control pressure

## Application example



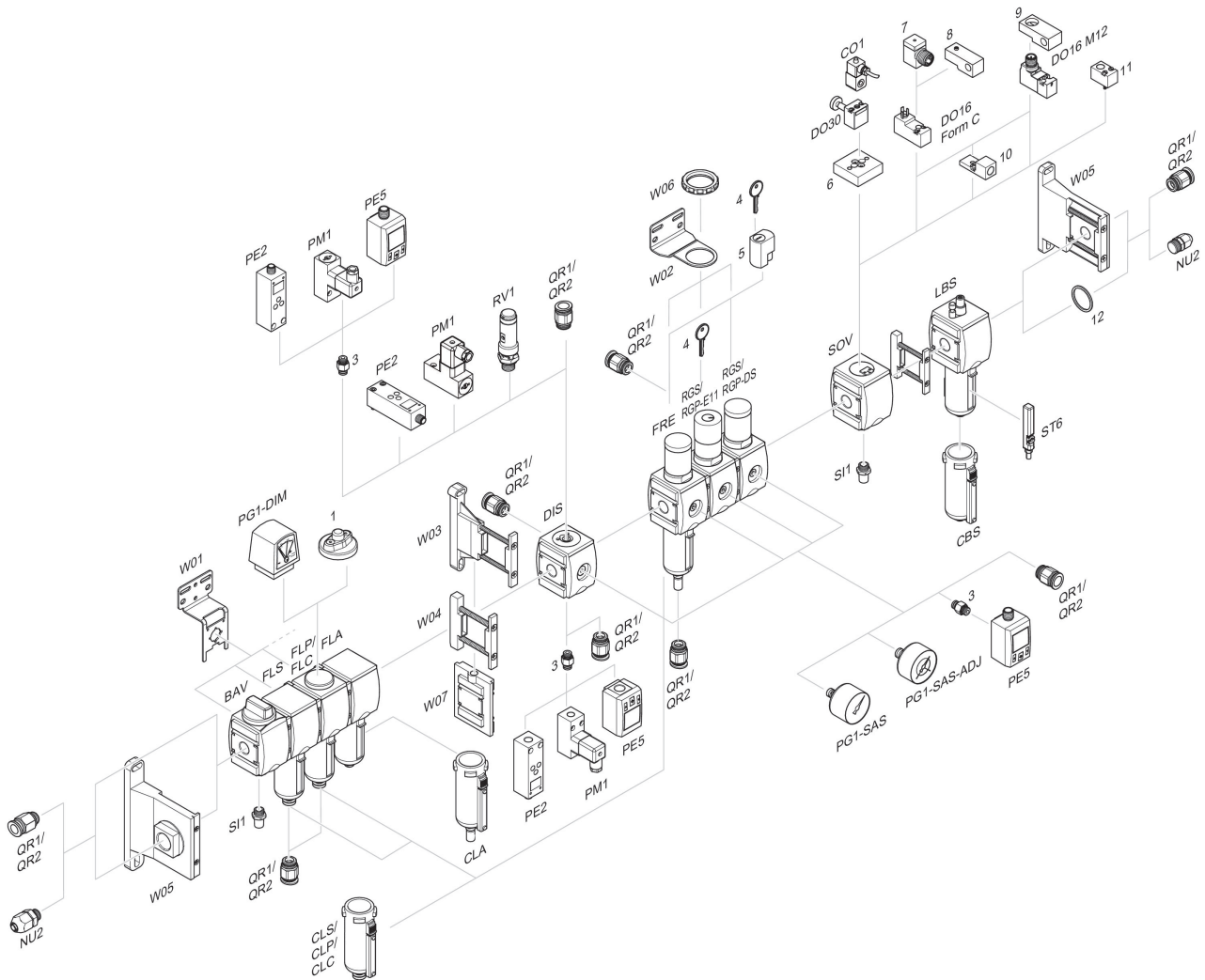
- 1) Precision pressure regulator
- 2) Pressure regulator valve, pneumatically operated

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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