

Filling unit, pneumatically operated, Series AS2-SSU

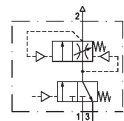
R412006281

Series AS2

2026-08-07

Series AS2

The AVENTICS Series AS2 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

Type

Activation

Parts

Nominal flow Q_n

Compressed air connection

Min. working pressure

Max. working pressure

Connection type

Sealing principle

Type

Pilot

Can be assembled into blocks

Min. control pressure

Max. control pressure

Min. ambient temperature

Max. ambient temperature

Industrial

adjustable filling time

Archive product: Do not use in new constructions!

Pneumatically

3/2-directional valve

Filling valve

2000 l/min

G 3/8

0 bar

16 bar

Pipe connection

Soft seal

Poppet valve

Internal

Can be assembled into blocks

2.5 bar

16 bar

-10 °C

50 °C

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Medium	Compressed air Neutral gases
Max. particle size	40 µm
Compressed air connection pilot exhaust	G 1/8
Compressed air connection, exhaust	G 1/4
Nominal flow Qn 1 to 2	2000 l/min
Nominal flow Qn 2 to 3	380 l/min
Weight	0.424 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Acrylonitrile butadiene styrene
Material threaded bushing	Die cast zinc
Part No.	R412006281

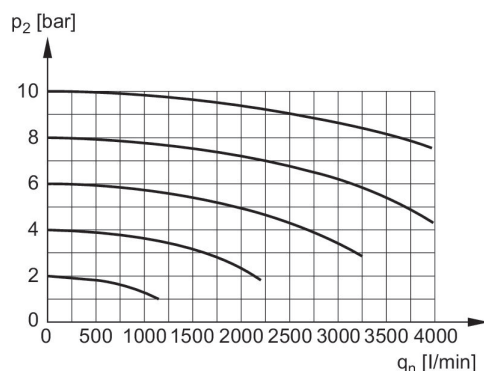
Technical information

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 $p_2 = 6$ bar at $\Delta p = 1$ bar

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Flow rate characteristic



p_2 = Secondary pressure
 q_n = Nominal flow

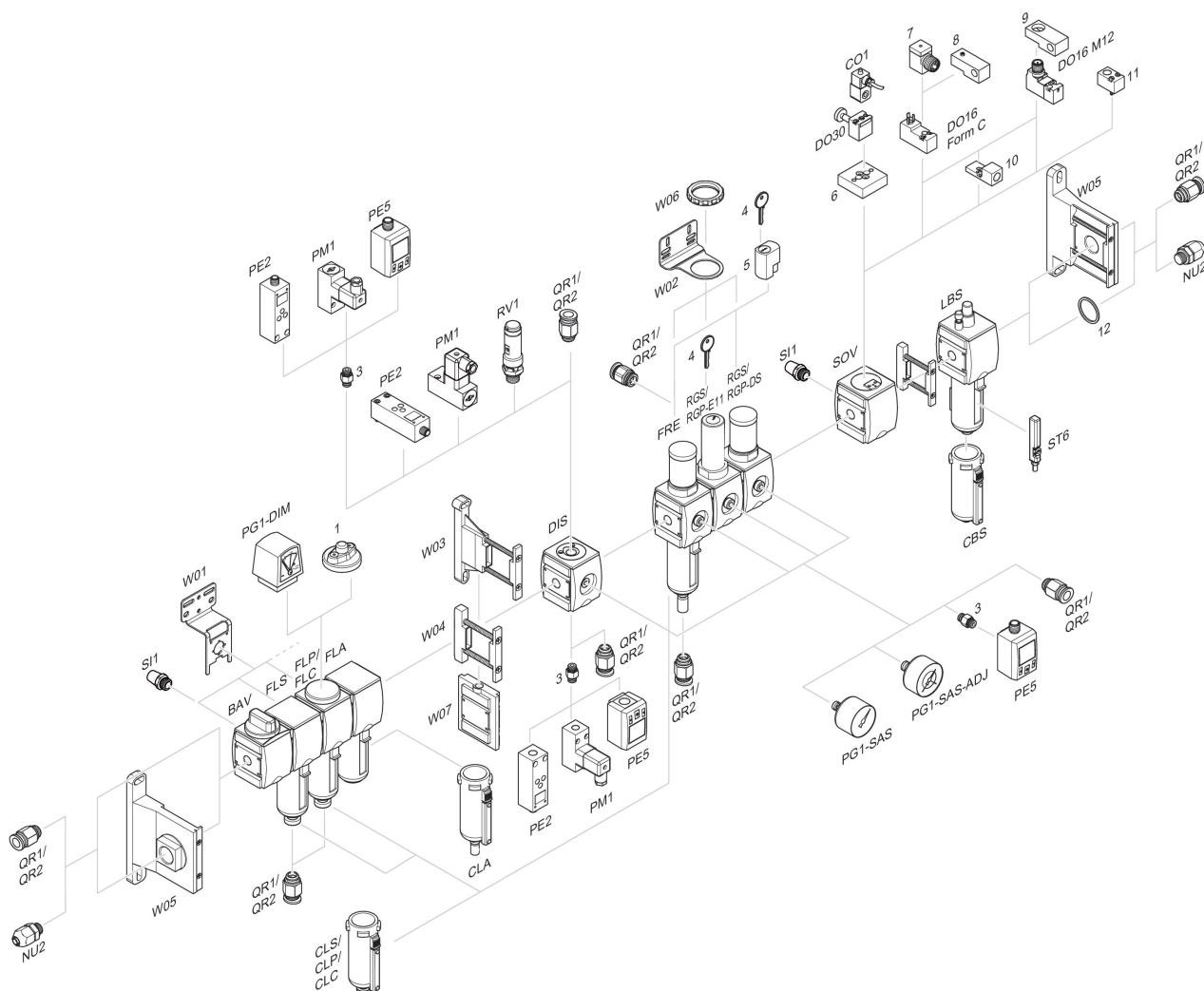
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Accessories overview



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

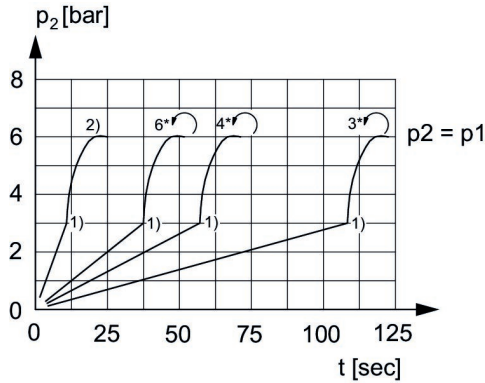
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Secondary pressure while filling



p1 = Working pressure

p2 = Secondary pressure

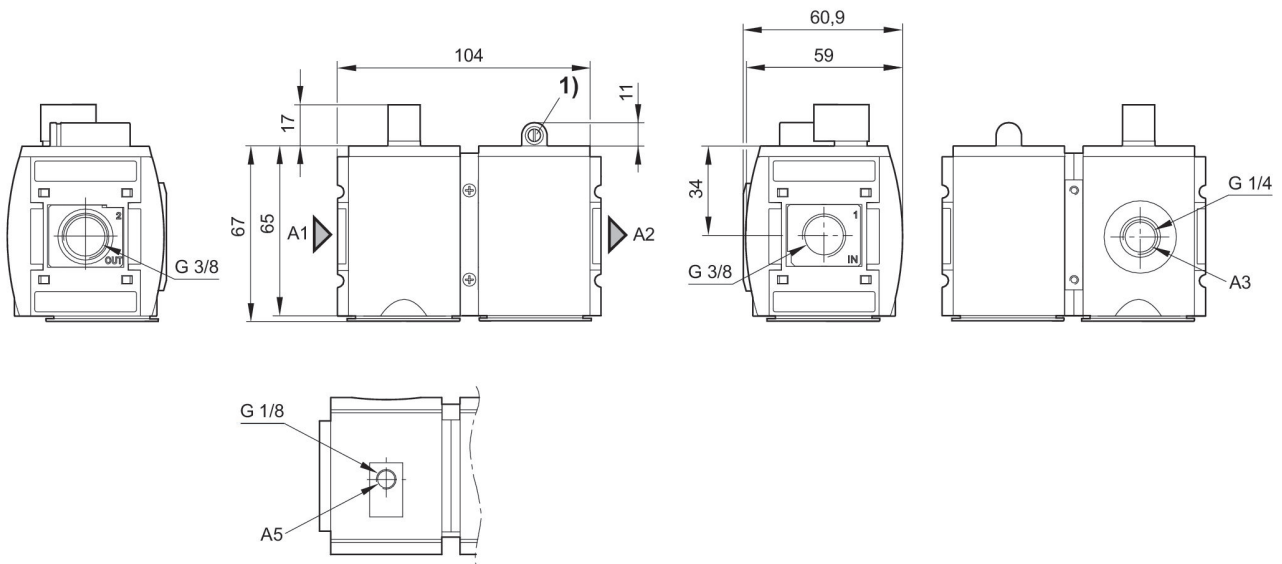
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p_1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

Dimensions in mm



A1 = input

A2 = output

A3 = ventilation port

A5 = Control pressure connection

1) Adjustment screw for filling time