

Filling unit, pneumatically operated, Series AS2-SSU

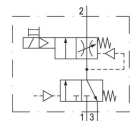
R412006382

Series AS2

2026-08-11

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 Qn

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

Industrial

With electrical priority circuit, adjustable filling time.

Archive product: Do not use in new constructions!

Pneumatically

3/2-directional valve

Filling valve

2000 l/min

G 1/4

0 bar

16 bar

Pipe connection

Soft seal

Poppet valve

Internal

Can be assembled into blocks

2.5 bar

16 bar

-10 °C

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Max. ambient temperature	50 °C
Medium	Compressed air Neutral gases
Max. particle size	25 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.	R412006382

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 $p_2 = 6 \text{ bar}$ at $\Delta p = 1 \text{ bar}$

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.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p_1 is immediately applied.

For unthrottled operation, the filling valve must be permanently electrically actuated.

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.

Electr. connection: valve plug connector M12x1

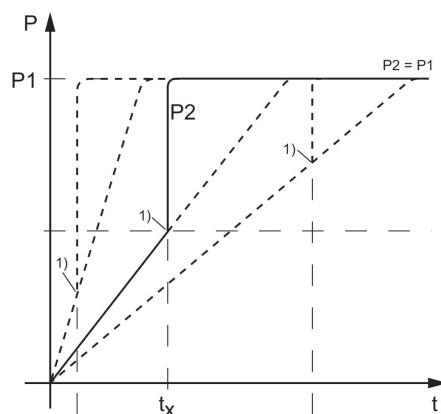
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Secondary pressure while filling



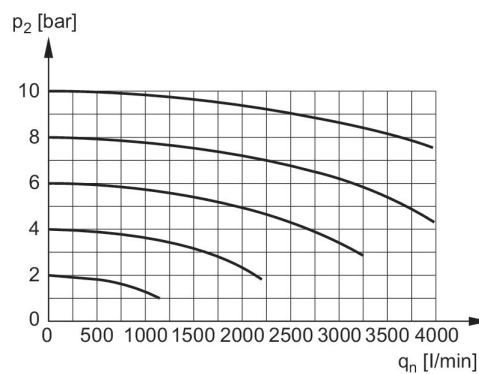
p1 = Working pressure
p2 = Secondary pressure
t = filling time

tx = switchover time

1) Electrically triggered switching point

Filling time adjustable via adjustment screw (throttle)

Flow rate characteristic



p2 = Secondary pressure
qn = Nominal flow

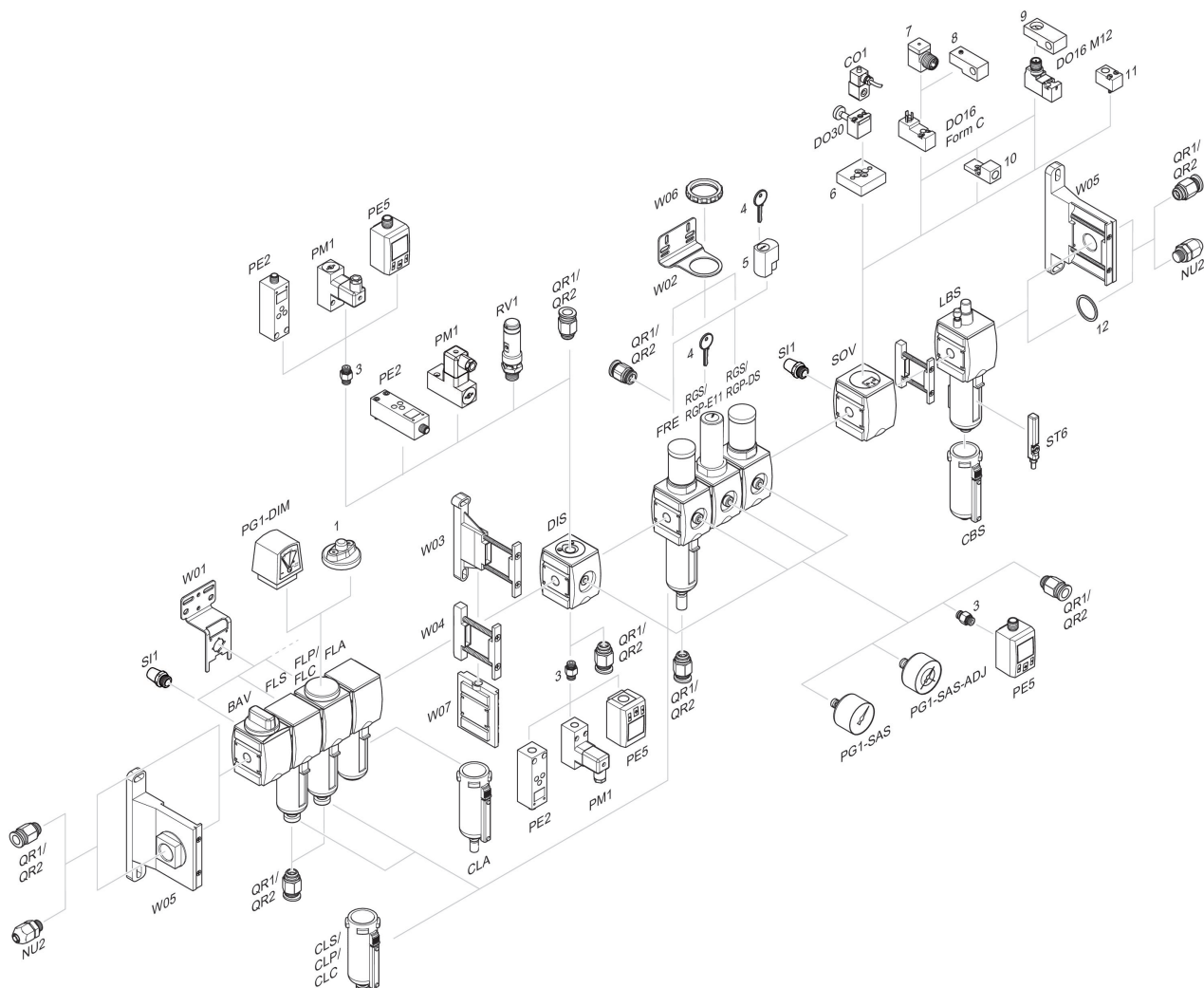
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Accessories overview



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

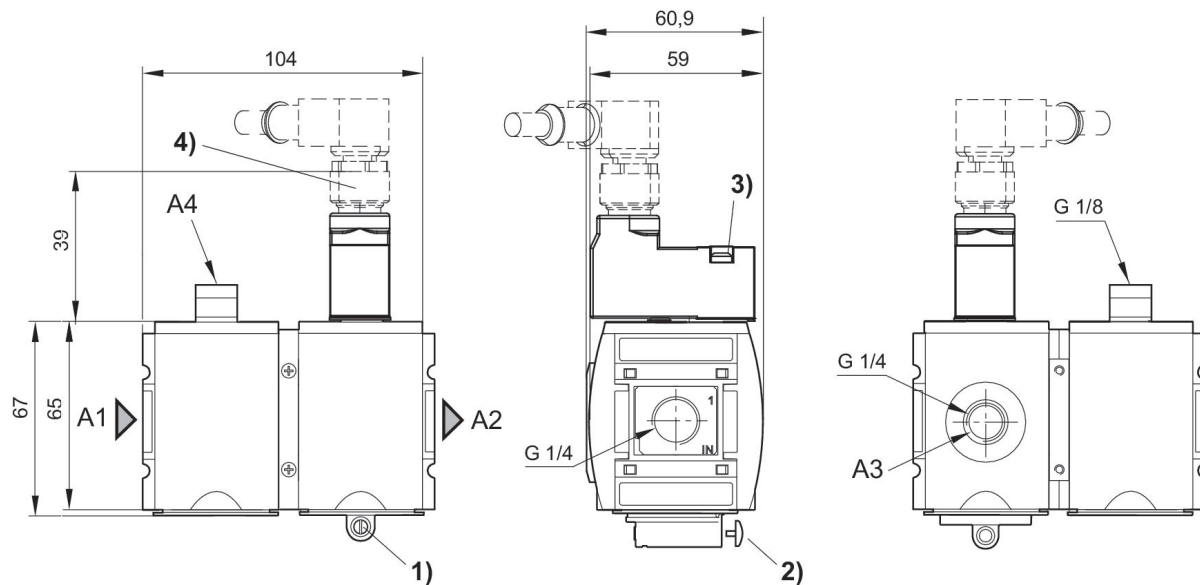
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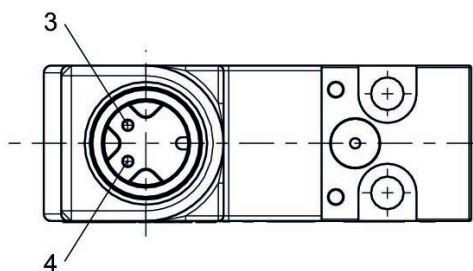
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Dimensions in mm



- A1 = input
A2 = output
A3 = ventilation port
A4 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock
3) plug M12
4) Manual override

Pin assignment M12x1



- 3: +/-
4: +/-