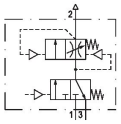
Filling unit, pneumatically operated, Series AS3-SSU

R412007276

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
Type	adjustable filling time
Activation	Pneumatically
Parts	3/2-directional valve Filling valve
Nominal flow Qn	3500 l/min
Compressed air connection	G 3/8
Min. working pressure	0 bar
Max. working pressure	16 bar
Connection type	Pipe connection
Sealing principle	Soft seal
Type	Poppet valve
Pilot	Internal
Can be assembled into blocks	Can be assembled into blocks
Min. control pressure	2.5 bar
Max. control pressure	16 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Medium	Compressed air Neutral gases

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Max. particle size	40 µm
Compressed air connection pilot exhaust	G 1/8
Compressed air connection, exhaust	G 1/2
Nominal flow Qn 1 to 2	3500 l/min
Nominal flow Qn 2 to 3	3200 l/min
Weight	0.924 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Acrylonitrile butadiene styrene
Material threaded bushing	Die cast zinc
Part No.	R412007276

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 Δp = 1 bar

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.

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.

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

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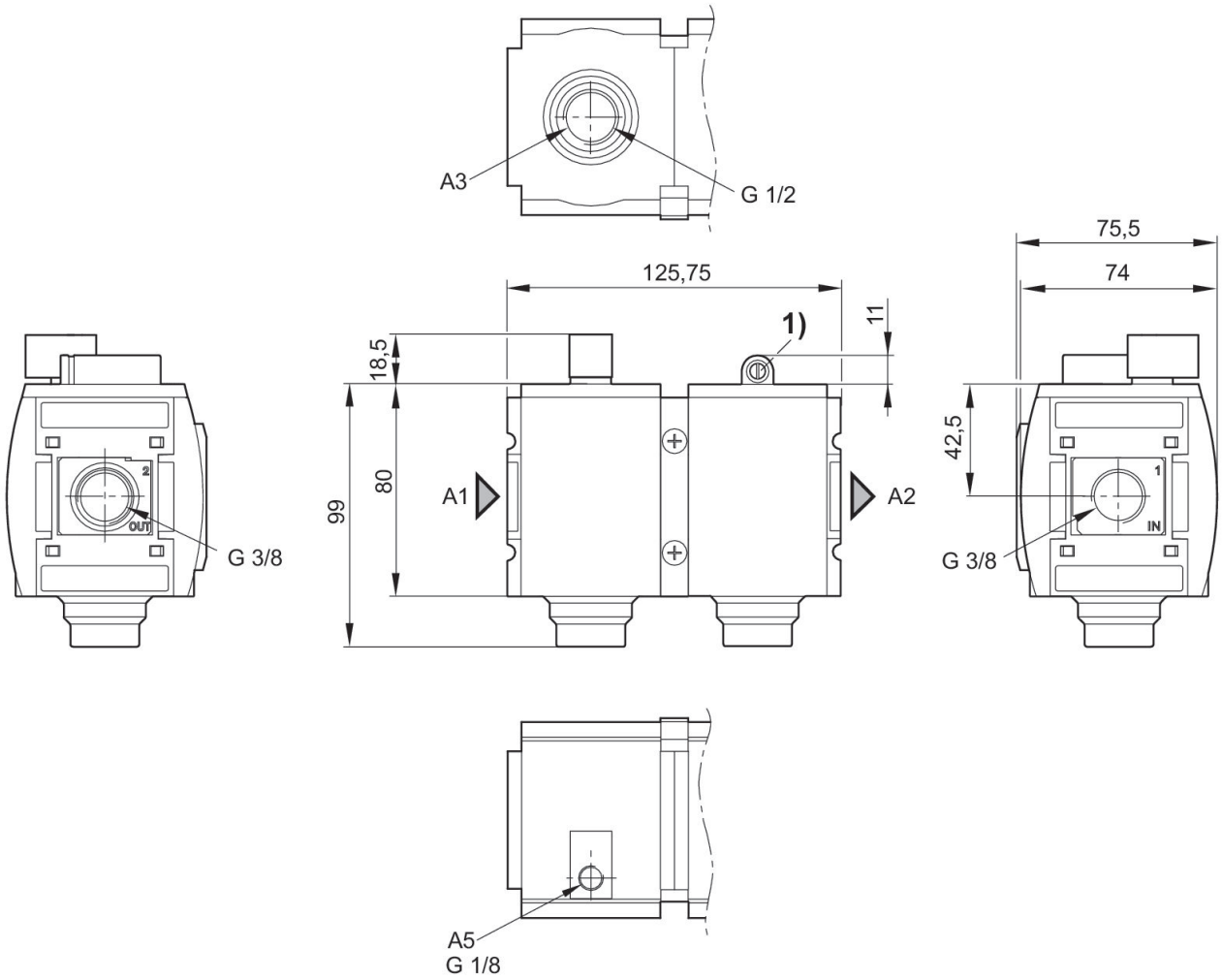
Dimensions in mm



A1 = input
A2 = output
A3 = ventilation port
A5 = Control pressure connection
1) Adjustment screw for filling time

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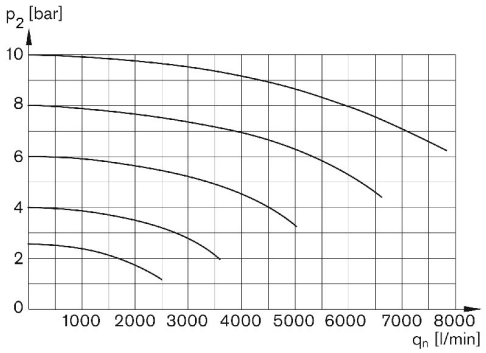
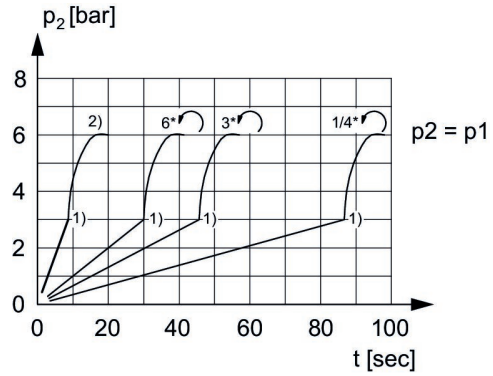
Flow rate characteristic, p2 = 0,05 - 7 bar



p2 = Secondary pressure
qn = Nominal flow

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 ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

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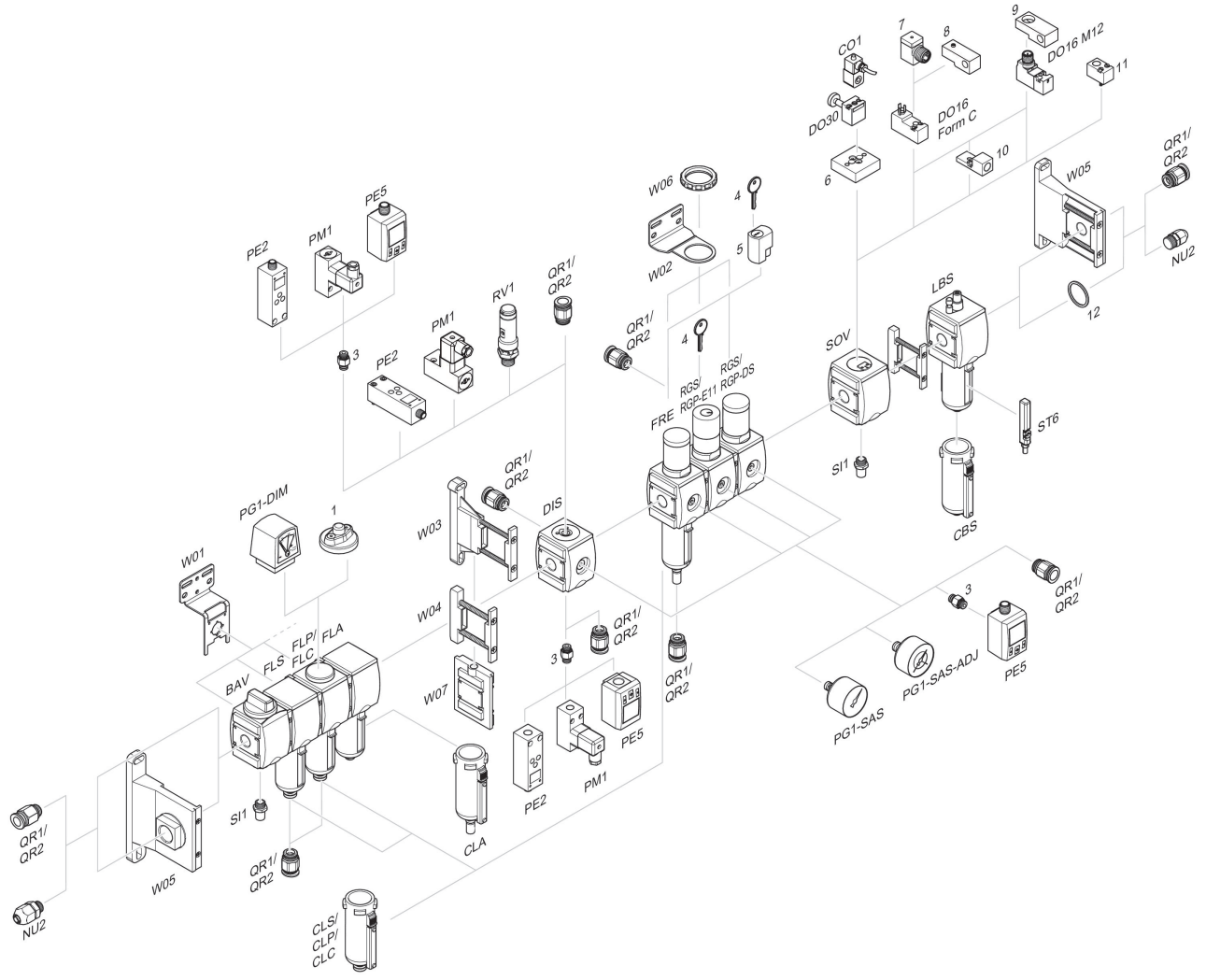
Accessories overview



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