Filling unit, electrically operated, Series AS3-SSU R412007394

Series AS3 2024-03-28

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 Type Activation Nominal flow Qn Compressed air connection Min. working pressure Max. working pressure Operational voltage DC Sealing principle Pilot Connection type Parts
- Can be assembled into blocks Basic valve equipment Type Min. ambient temperature Max. ambient temperature Medium

Industrial adjustable filling time Electrically 3500 l/min G 1/2 2.5 bar 10 bar 24 V Soft seal Internal Pipe connection 3/2-directional valve Filling valve Can be assembled into blocks Basic valve with pilot valve Poppet valve -10 °C 50 °C Compressed air Neutral gases



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R412007394 Max. particle size	25 μm
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
Operating voltage	24 V DC
Power consumption DC	2 W
Duty cycle	100 %
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Electrical connection 1, type	Plug
Electrical connection 1, thread size	M12x1
Weight	0.9 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene
Part No.	R412007394

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 $\Delta p = 0,1$ 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.

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.

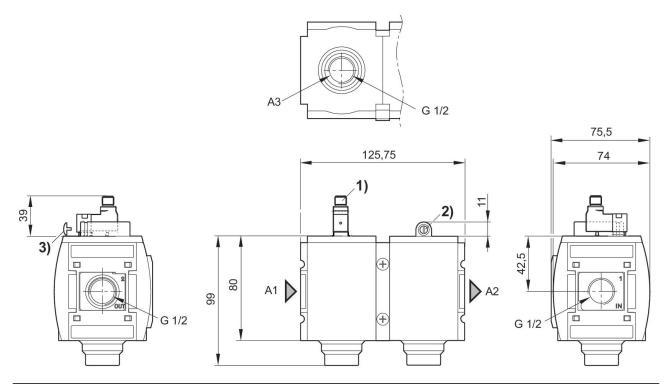
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

With adjustment screw lock



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R412007394 Dimensions in mm

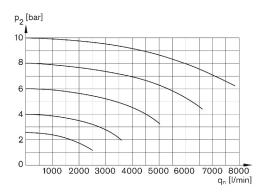


A1 = input

- A2 = output
- A3 = ventilation port
- 1) Port for plug M12x1
- 2) Adjustment screw for filling time

3) Adjustment screw lock

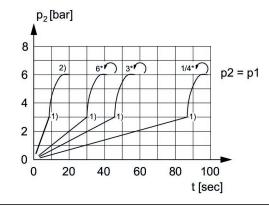
Flow rate characteristic, p2 = 0,05 - 7 bar



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 $\approx 0.5 \text{ x}$

p1 (50%)

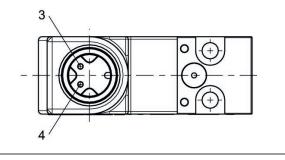
2) Throttle fully opened * Adjustment screw rotations



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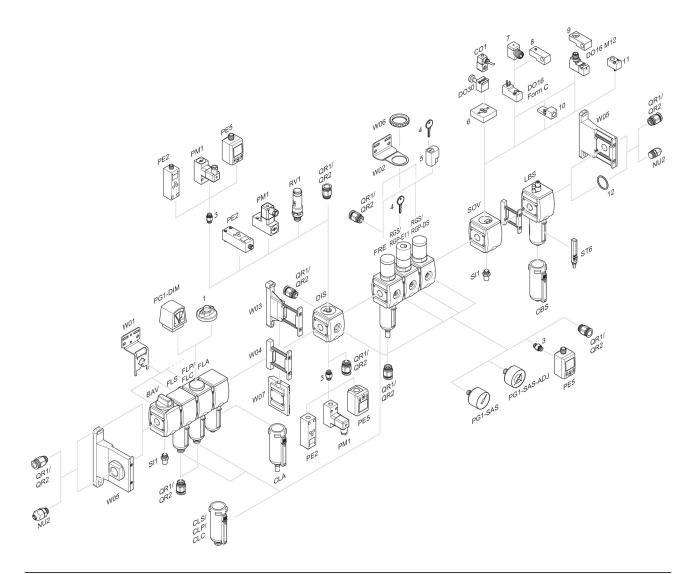
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R412007394 Pin assignment M12x1



3: +/-4: +/-

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

