Filling unit, electrically operated, Series AS3-SSU R412007395

Series AS3 2024-03-27

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 With electrical priority circuit, 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



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	Neutral gases
Max. particle size	25 μm
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
Electrical connection 1, type	Plug
Electrical connection 1, thread size	M12x1
Weight	0.924 kg
Material	
Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene

Technical information

Part No.

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ 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.

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

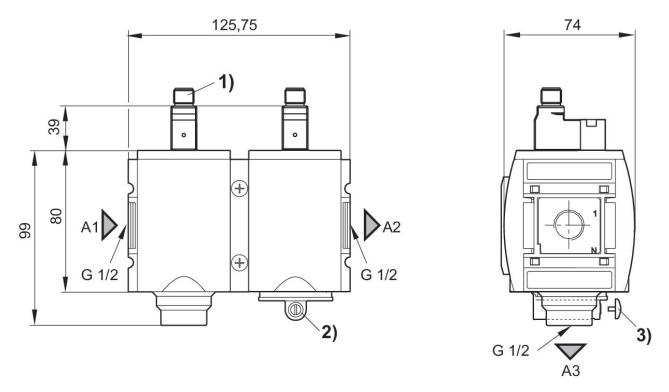
Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

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.



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R412007395 Dimensions in mm



A1 = input

A2 = output

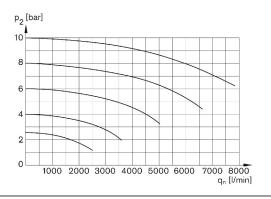
A3 = ventilation port

1) Electr. connection: valve plug connector M12x1

2) Adjustment screw for filling time

3) Adjustment screw lock

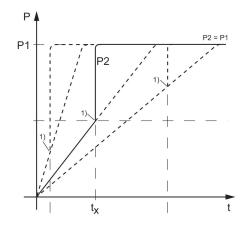
Flow rate characteristic, p2 = 0,05 - 7 bar



p2 = Secondary pressure

qn = Nominal flow

Secondary pressure while filling



p1 = Working pressure

p2 = Secondary pressure

t = filling time

tx = switchover time

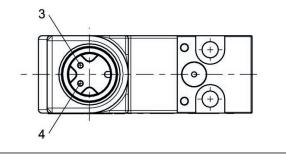
1) Electrically triggered switching point Filling time adjustable via adjustment screw (throttle)



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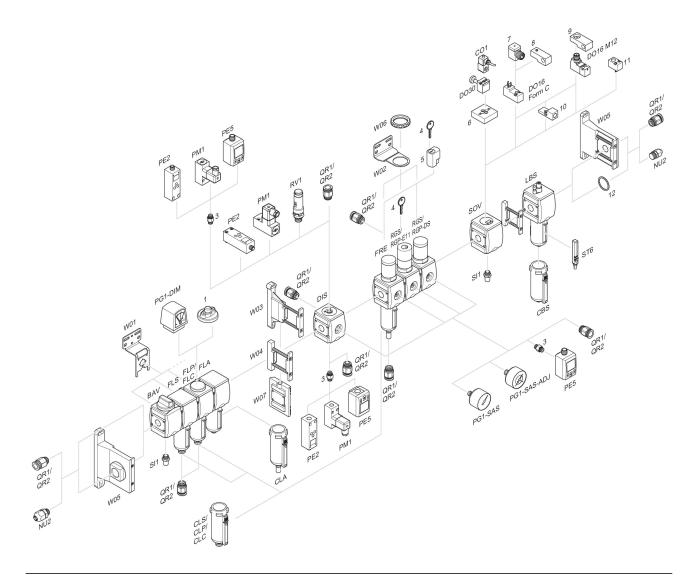
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R412007395 Pin assignment M12x1



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

