

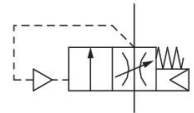
**R412007272**

Series AS3

2024-04-03

## 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	Filling valve
Nominal flow Qn	4500 l/min
Compressed air connection	G 3/8
Min. working pressure	2.5 bar
Max. working pressure	16 bar
Sealing principle	Soft seal
Type	Poppet valve
Can be assembled into blocks	Can be assembled into blocks
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Medium	Compressed air Neutral gases
Max. particle size	40 µm
Weight	0.43 kg

## Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Acrylonitrile butadiene styrene
Material threaded bushing	Die cast zinc
Part No.	R412007272

## Technical information

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

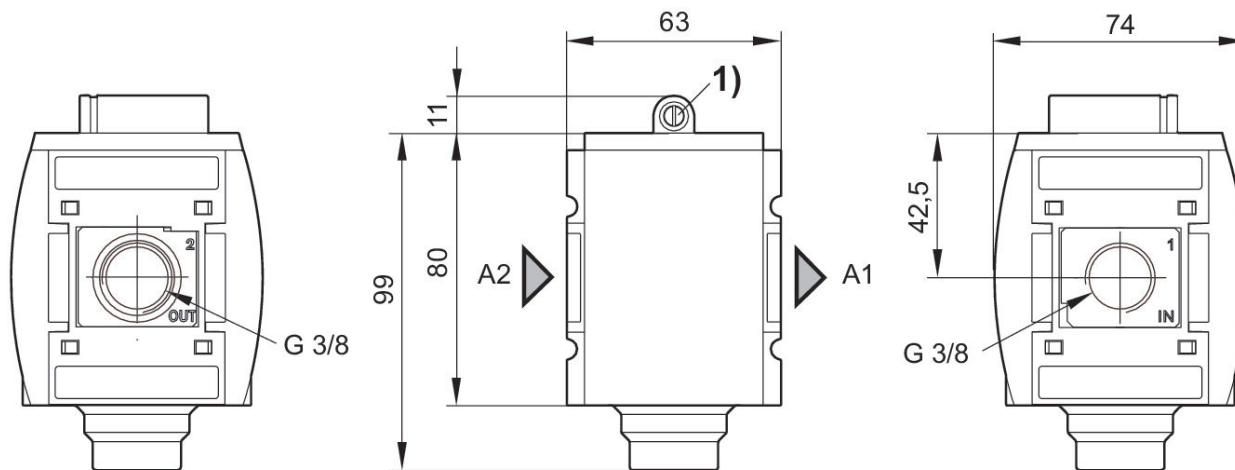
Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  bar

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.

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.

## Dimensions in mm

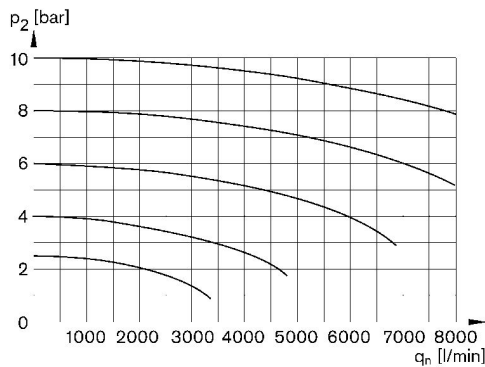


A1 = input

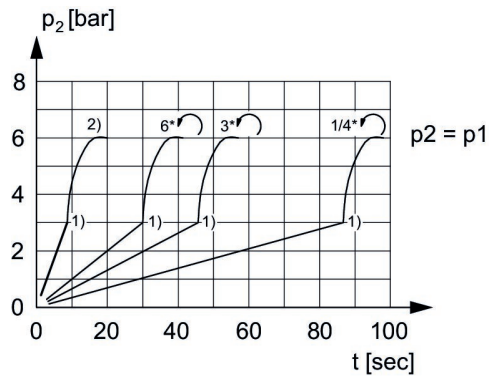
A2 = output

1) Adjustment screw for filling time

## Flow rate characteristic, $p_2 = 0,05 - 7$ bar Secondary pressure while filling bar



$p_2$  = Secondary pressure  
 $q_n$  = Nominal flow



$p_1$  = Working pressure  
 $p_2$  = 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

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[illegible]

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