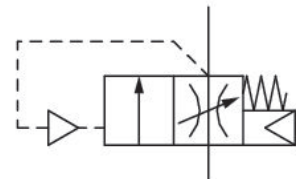


# Filling valve, Series AS2-SSV

R412006273

## General series information 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  
Industrial

Type  
adjustable filling time

Activation  
Pneumatically

Parts  
Filling valve

Nominal flow Qn  
2000 l/min

Compressed air connection  
G 3/8

Working pressure min.  
2.5 bar

Working pressure max  
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  
0.203 kg

## Material

Housing material

Polyamide

Seal material

Acrylonitrile butadiene rubber

Material, front cover

Acrylonitrile butadiene styrene

Material threaded bushing

Die cast zinc

Part No.

R412006273

## Technical information

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

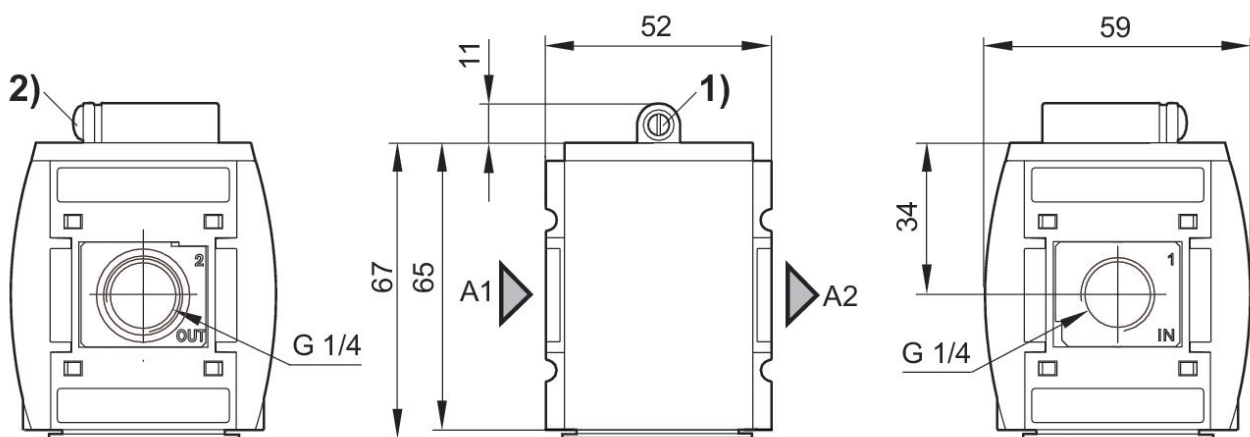
Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  bar

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.

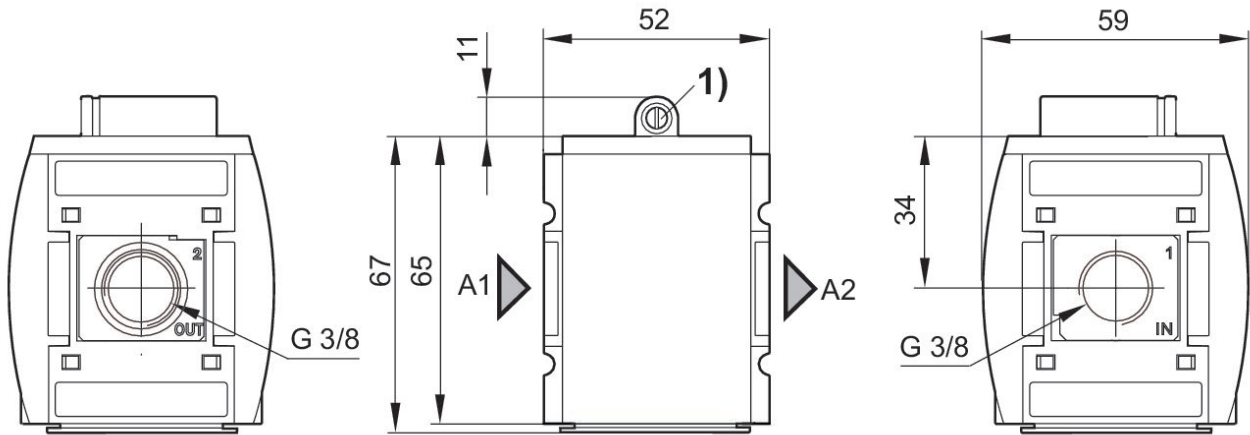
## Dimensions in mm



A1 = input A2 = output  
1) Adjustment screw for filling time  
2) Adjustment screw lock

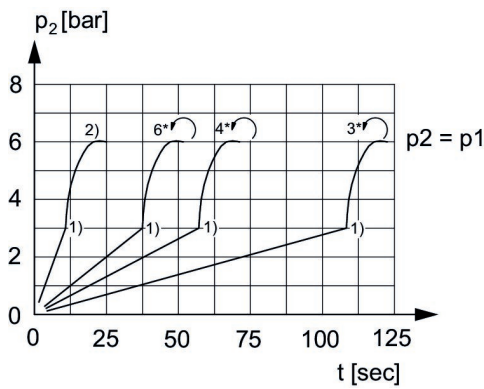
## Dimensions in mm

Fig. 2



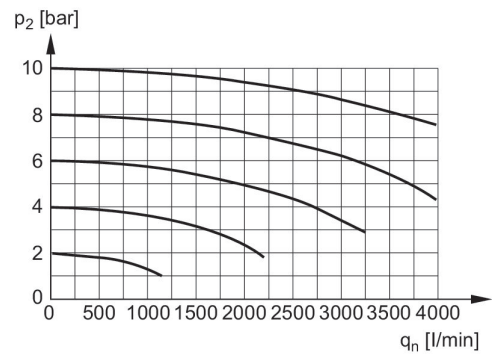
A1 = input A2 = output  
1) Adjustment screw for filling time

### Secondary pressure while filling



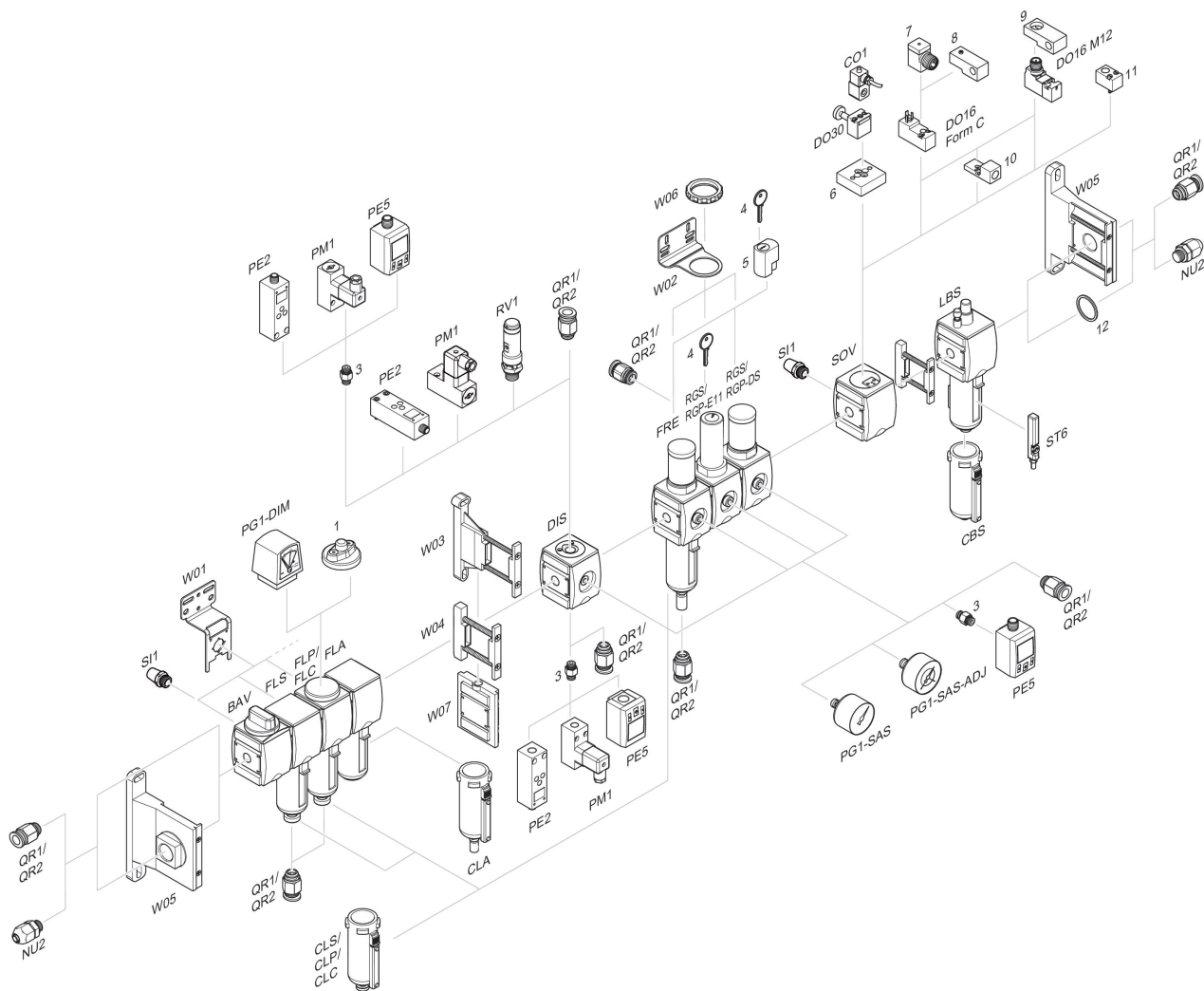
$p_1$  = Working pressure  
 $p_2$  = Secondary pressure  
 $t$  = filling time, adjustable via adjustment screw (throttle)  
1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p_1$  (50%)  
2) Throttle fully opened  
\* Adjustment screw rotations

### Flow rate characteristic, $p_2 = 0,05 - 7$ bar



$p_2$  = secondary pressure  $q_n$  = nominal flow

## 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