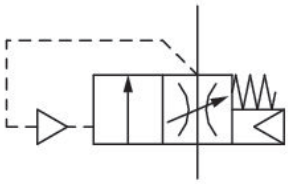
Filling valve, Series AS2-SSV

R412006275

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 1/4

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.
R412006275

Technical information

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

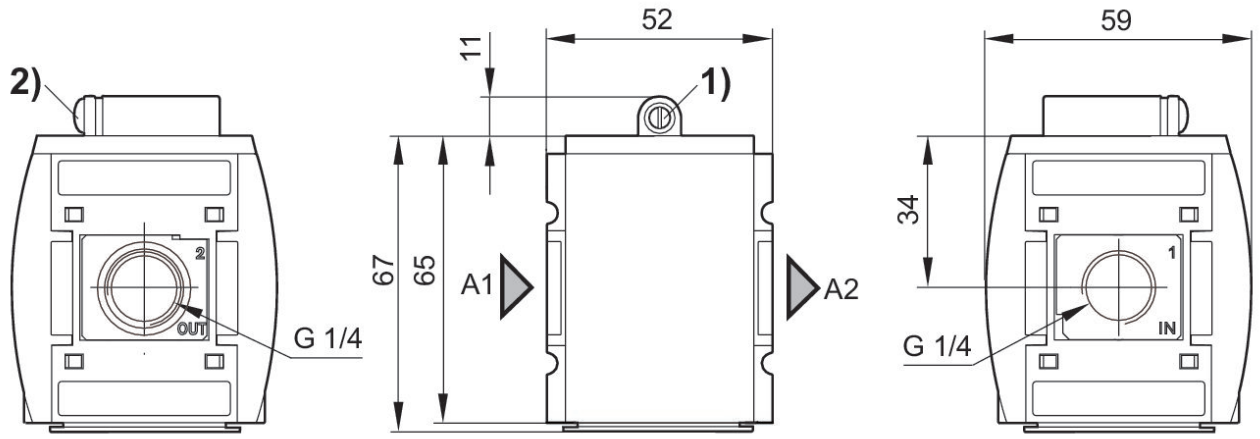
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

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.

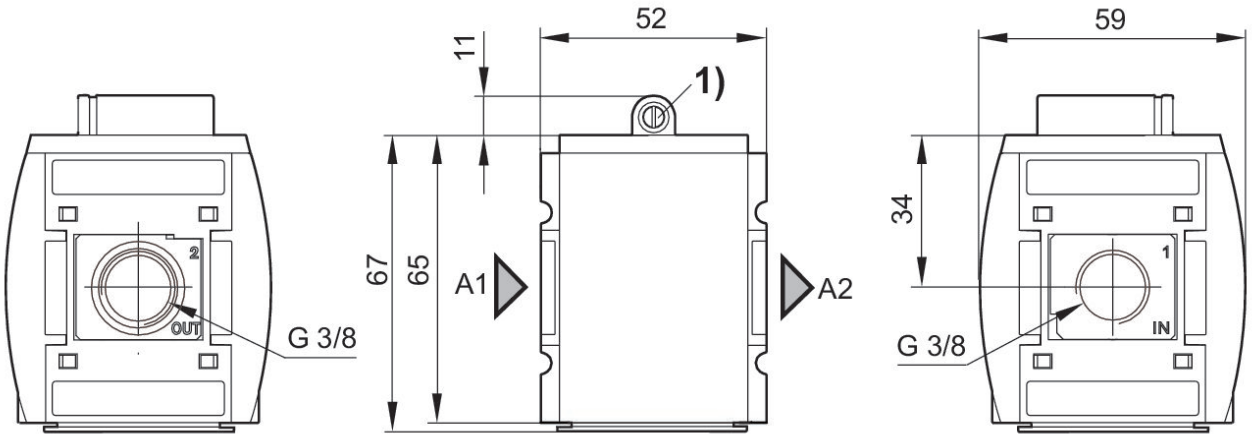
Dimensions in mm



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

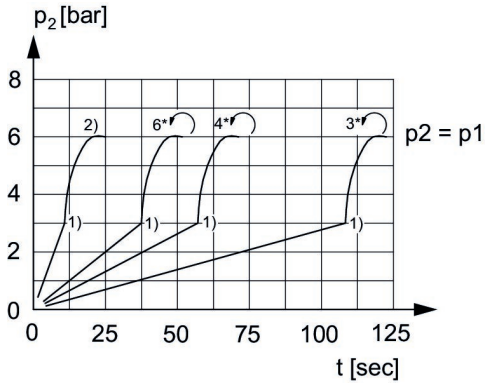
Dimensions in mm

Fig. 2



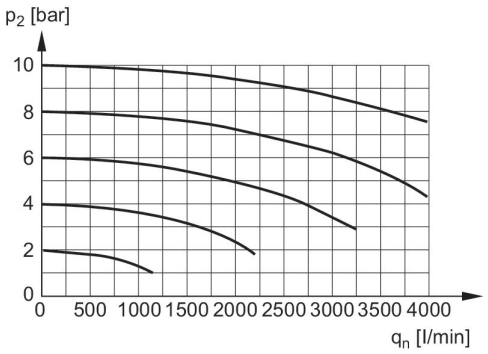
A1 = input A2 = output
1) Adjustment screw for filling time

Secondary pressure while filling



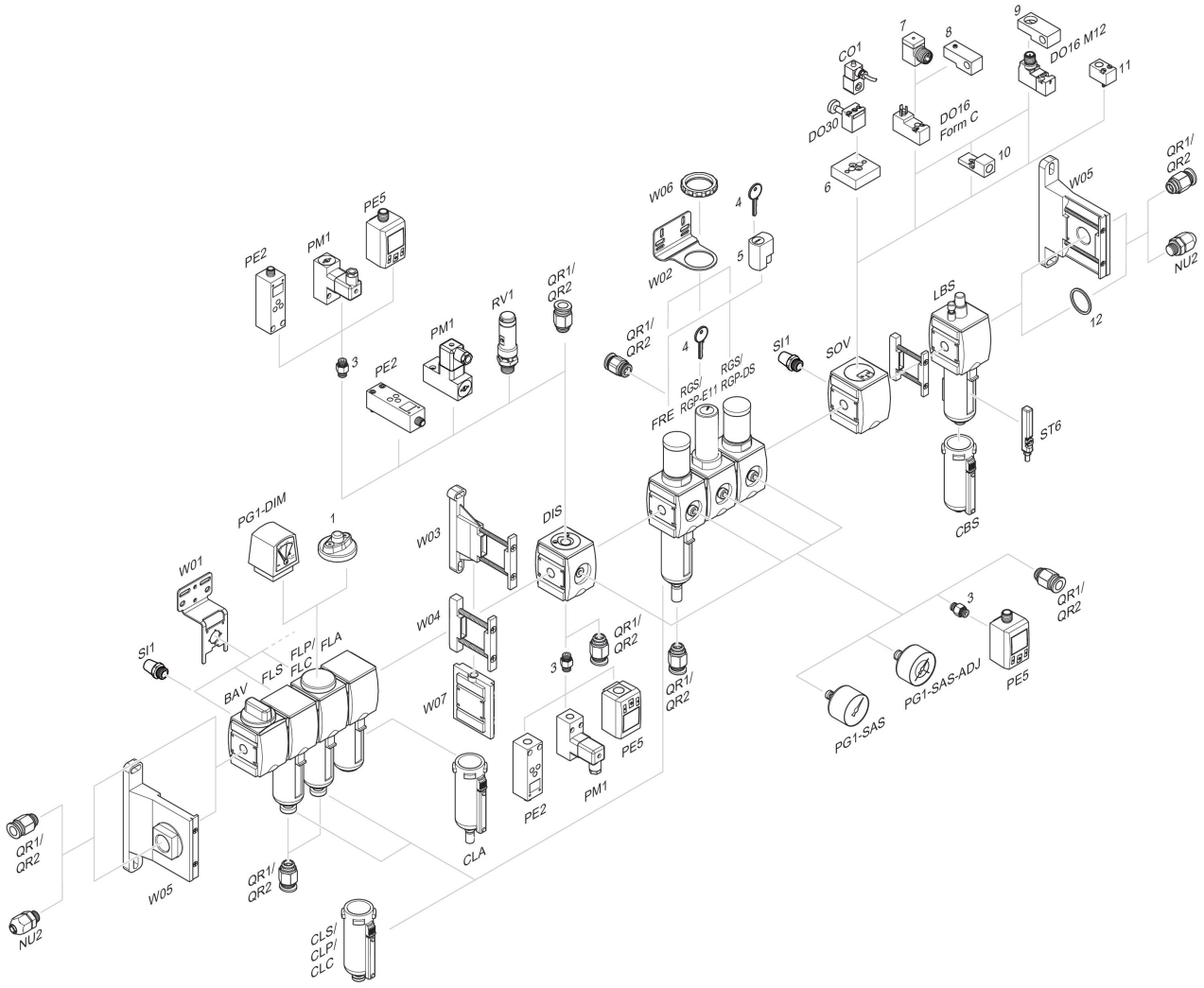
p1 = Working pressure
p2 = Secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

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



p2 = secondary pressure qn = 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