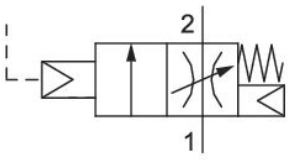
Filling valve, pneumatically operated, Series AS5-SSV

R412009312

General series information
Series AS5

- The AVENTICS Series AS5 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

Activation
Pneumatically

Parts
Filling valve

Nominal flow Qn
10000 l/min

Compressed air connection
G 1

Working pressure min.
2.5 bar

Working pressure max
16 bar

Connection type
Pipe connection

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

Compressed air connection pilot exhaust
G 1/8

Nominal flow Qn 1 to 2
10000 l/min

Weight
1 kg

Material

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material, front cover
Acrylonitrile butadiene styrene

Material threaded bushing
Die cast zinc

Part No.
R412009312

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 = 6,3 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.

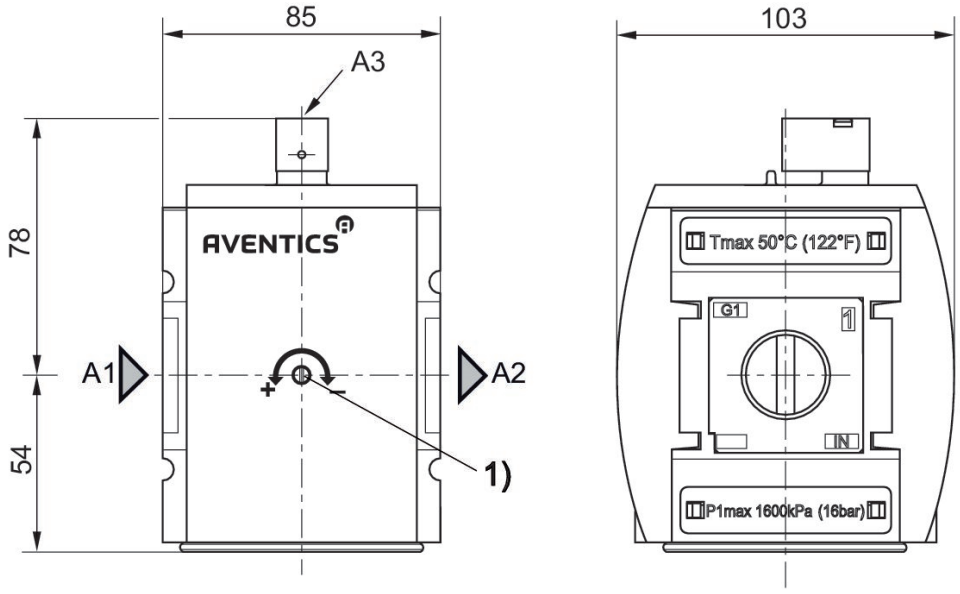
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

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

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

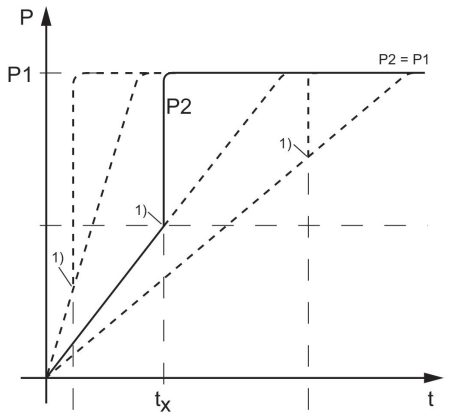
With pneumatic priority circuit, adjustable filling time.

Dimensions



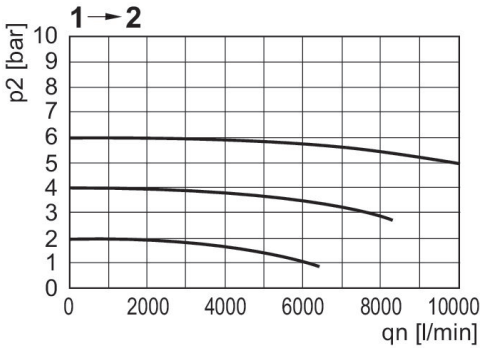
A1 = input A2 = output
A3 = control pressure connection
1) Adjustment screw for filling time

Secondary pressure while filling



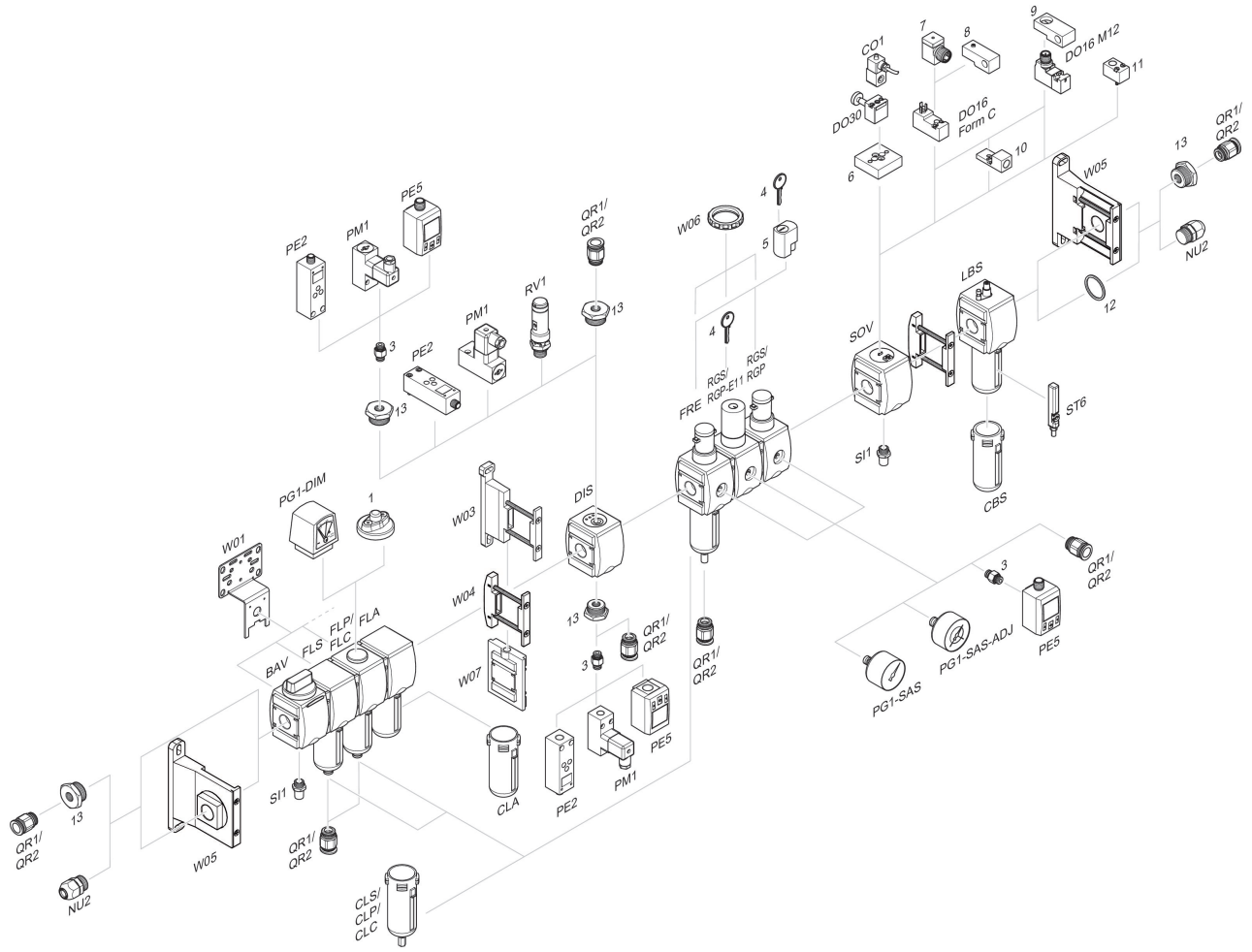
p1 = Working pressure
p2 = output pressure
t = filling time
tx = switchover time
1) Pneumatically triggered switching point
Filling time adjustable via adjustment screw (throttle)

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 13 = Reducing nipple