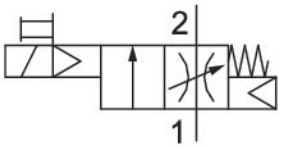
Filling valve, electrically operated, series AS2-SSV

R412006379

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	With electrical priority circuit, adjustable filling time.
Activation	Electrically
Nominal flow Qn	2000 l/min
Compressed air connection	G 1/4
Working pressure min.	2.5 bar
Working pressure max	10 bar
Sealing principle	soft seal
Parts	Filling valve
Can be assembled into blocks	Can be assembled into blocks
basic valve with electrical connector	Basic valve with pilot valve
Type	Poppet valve with elect. priority circuit
Min. ambient temperature	-10 °C

Max. ambient temperature	50 °C
Medium	Compressed air Neutral gases
Max. particle size	25 µm
Operating voltage	24 V DC
Duty cycle	100 %
Protection class with connection	IP65
Electrical connection type 2	Plug
Electrical connection 2, thread size	M12x1
Weight	0.203 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene
Part No.	R412006379

Technical information

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

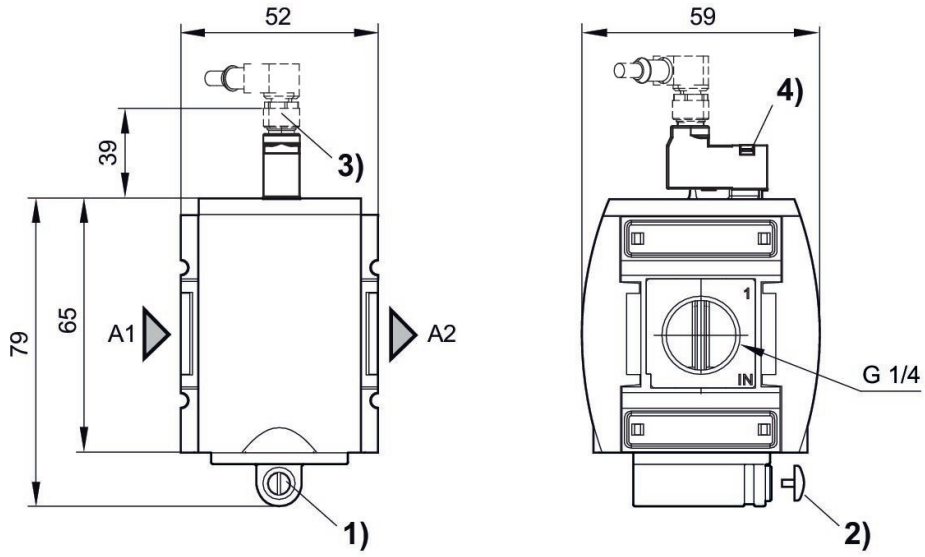
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

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.

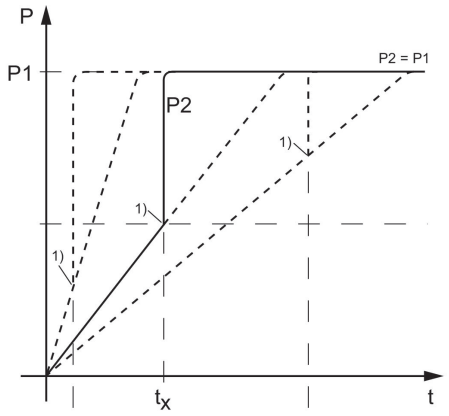
For unthrottled operation, the filling valve must be permanently electrically actuated.

Dimensions in mm



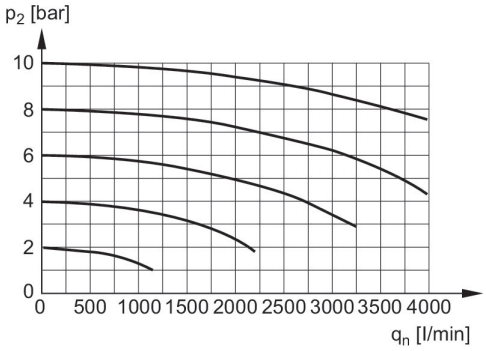
A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock
3) plug M12
4) Manual override

Secondary pressure while filling



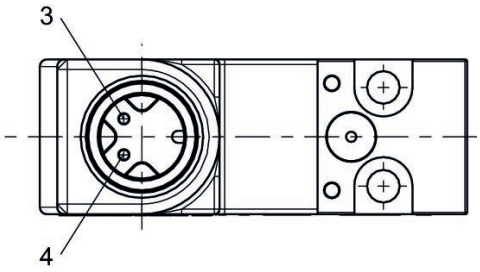
p1 = Working pressure
p2 = Secondary pressure
t = filling time
tx = switchover time
1) Electrically triggered switching point
Filling time adjustable via adjustment screw (throttle)

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



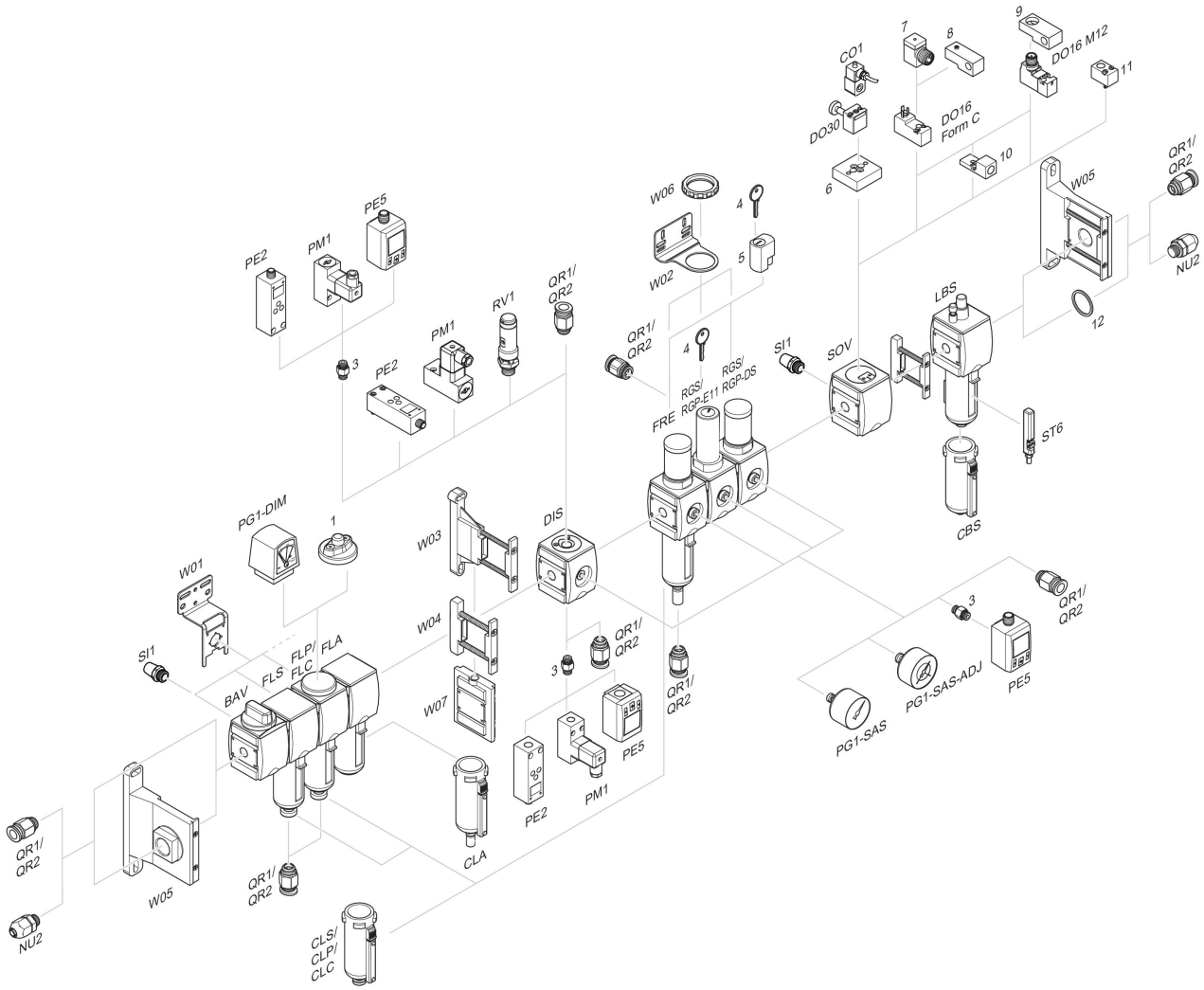
p2 = Secondary pressure
qn = Nominal flow

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