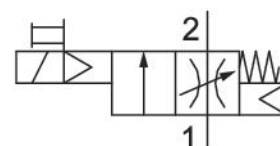


# Filling valve, electrically operated, series AS5-SSV

## R412009373

### 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

Type

Activation

Nominal flow Qn

Compressed air connection

Working pressure min.

Working pressure max

DC operating voltage

Sealing principle

Parts

Can be assembled into blocks

basic valve with electrical connector

Type

Industrial

With electrical priority circuit, adjustable filling time.

Electrically

10000 l/min

G 3/4

2.5 bar

10 bar

24 V

soft seal

Filling valve

Can be assembled into blocks

Basic valve with pilot valve

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	0.43 kg

## Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene
Part No.	R412009373

## 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

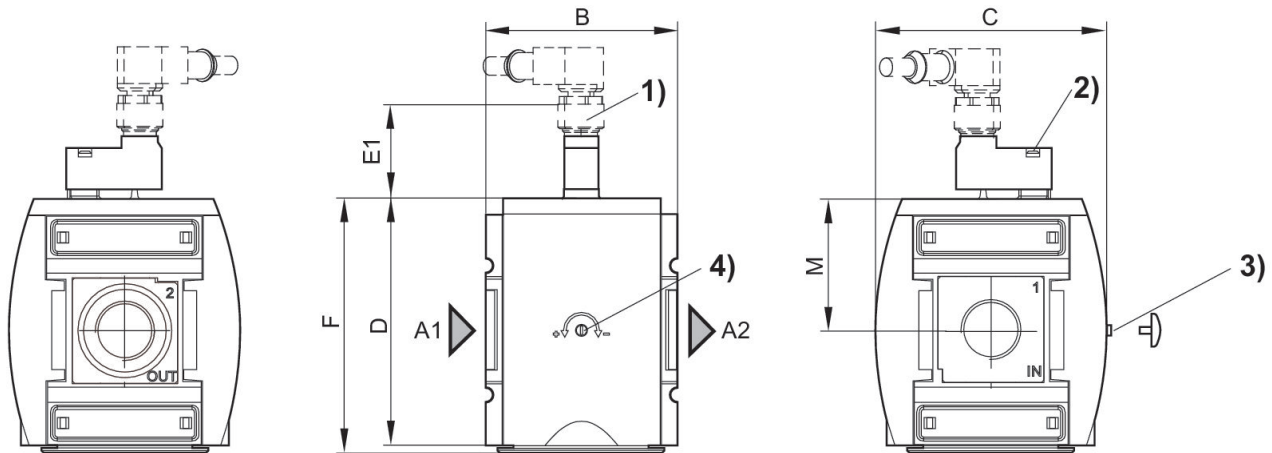
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure  $p_1$  is immediately applied.

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

## Dimensions

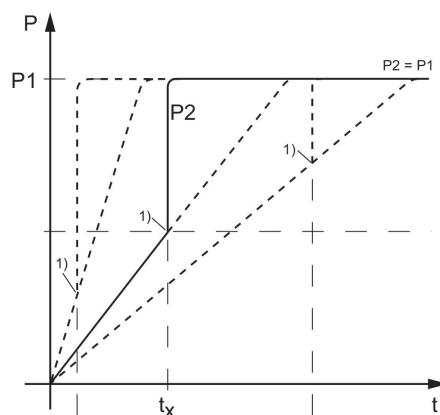


- A1 = input A2 = output  
 1) plug M12  
 2) Manual override  
 3) Adjustment screw for filling time  
 4) Adjustment screw lock

## Dimensions in mm

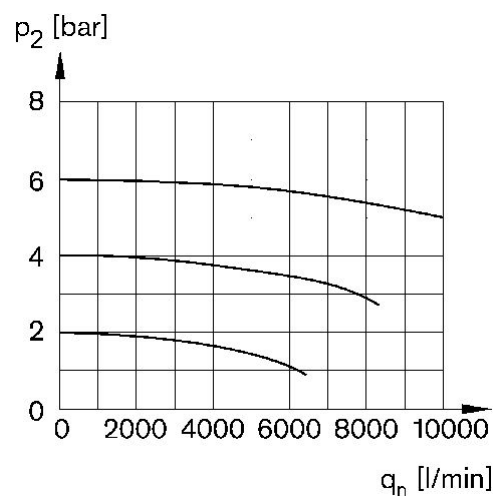
Part No.	A1	A2	B	C	D	E1	F	M
R412009373	G 3/4	G 3/4	85	103	109	39	112	58
R412009374	G 1	G 1	85	103	109	39	112	58
repeat-Column								

## Secondary pressure while filling



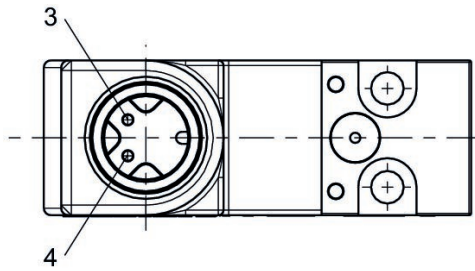
- p1 = Working pressure  
 p2 = Secondary pressure  
 t = filling time  
 tx = switchover time  
 1) Electrically triggered switching point  
 Filling time adjustable via adjustment screw (throttle)

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



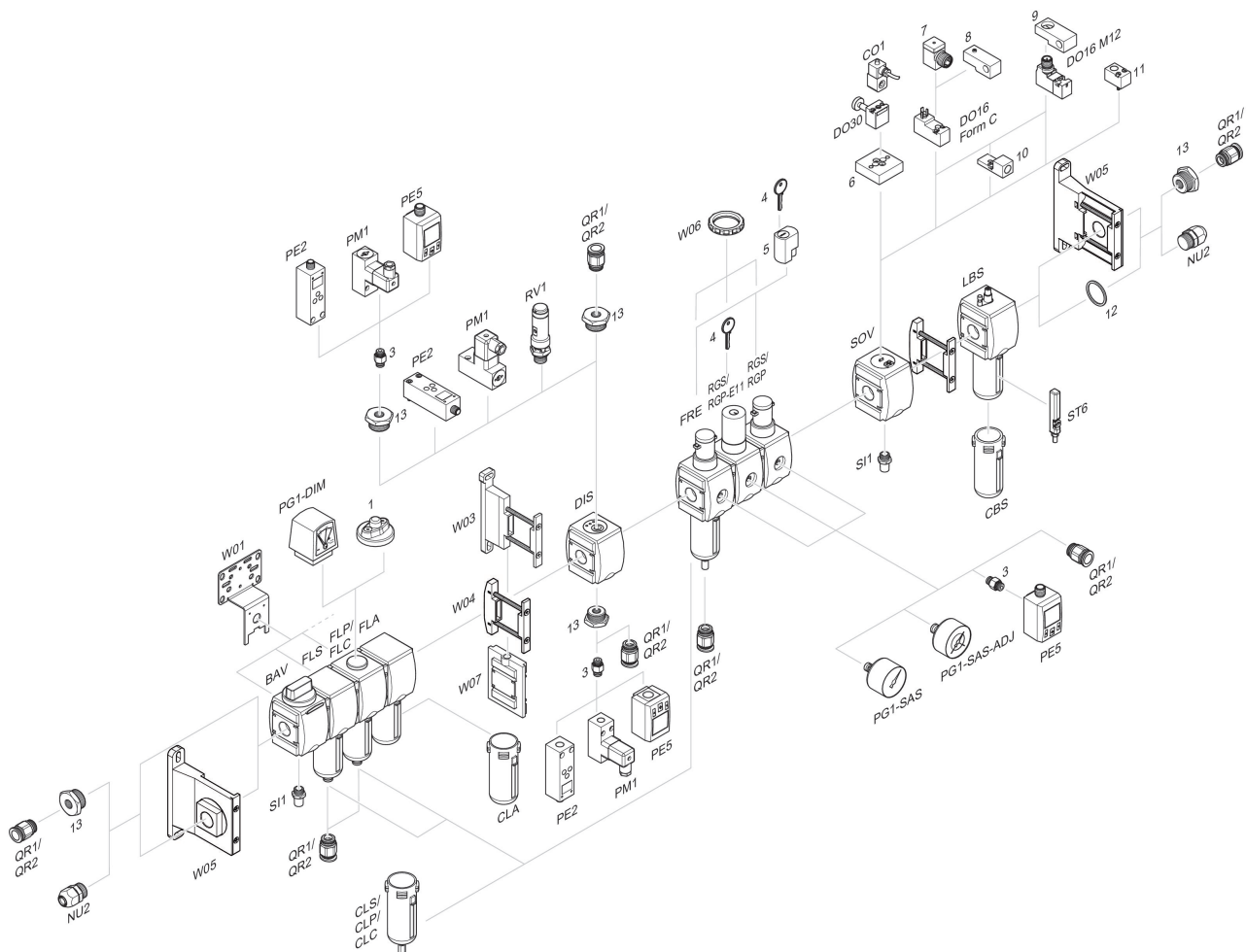
- p2 = secondary pressure qn = nominal flow

## 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 13 = Reducing nipple