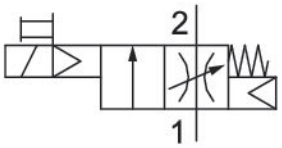
# Filling valve, electrically operated, series AS5-SSV

R412009374

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 |
| Type | With electrical priority circuit, adjustable filling time. |
| Activation | Electrically |
| Nominal flow Qn | 10000 l/min |
| Compressed air connection | G 1 |
| Working pressure min. | 2.5 bar |
| Working pressure max | 10 bar |
| DC operating voltage | 24 V |
| 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<br>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. | R412009374 |

## 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

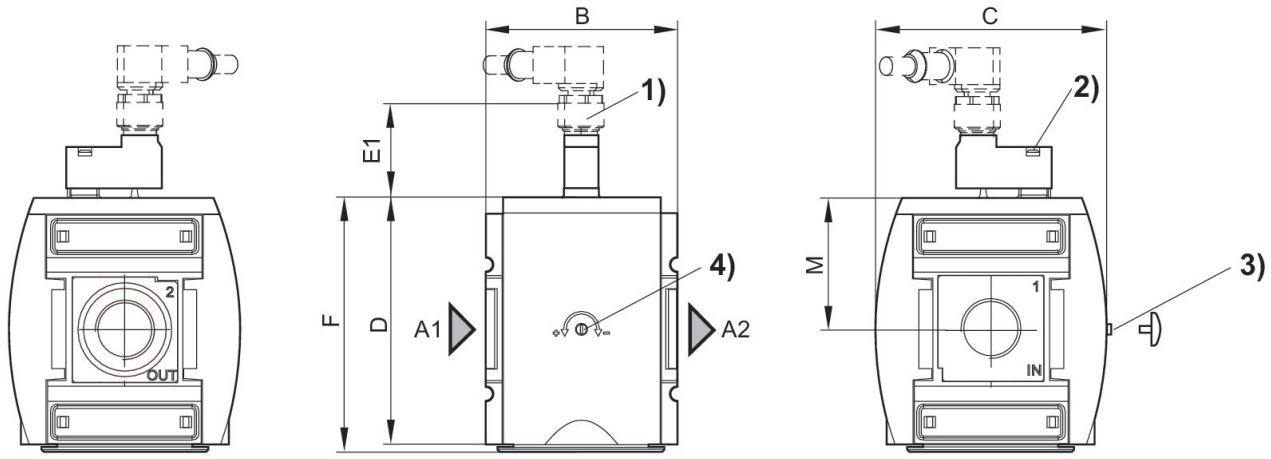
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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.

## Dimensions

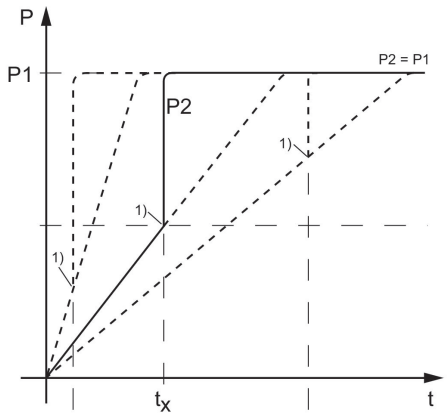



A1 = input A2 = output
1) plug M12
2) Manual override
3) Adjustment screw for filling time
4) Adjustment screw lock

## Dimensions in mm

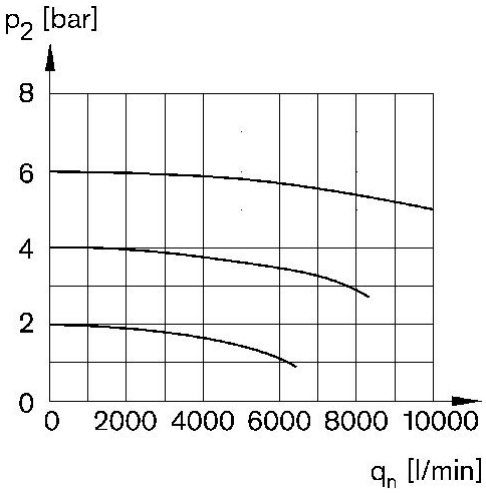
| Part No. | A1 | A2 | B | C | D | E1 | F | M |
|---|---|---|---|---|---|---|---|---|
| R412009373 | G 3/4 | G 3/4 | 85 | 103 | 109 | 39 | 112 | 58 |
| R412009374 | G 1 | G 1 | 85 | 103 | 109 | 39 | 112 | 58 |
| repeat-Column | | | | | | | | |

## Secondary pressure while filling



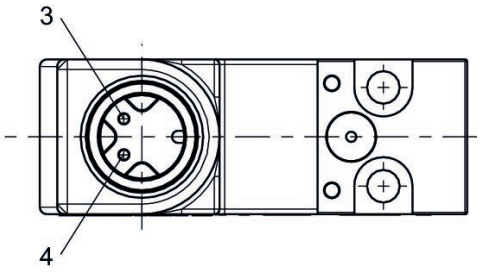

p1 = Working pressure
p2 = Secondary pressure
t = filling time
tx = switchover time
1) Electrically triggered switching point
Filling time adjustable via adjustment screw (throttle)

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



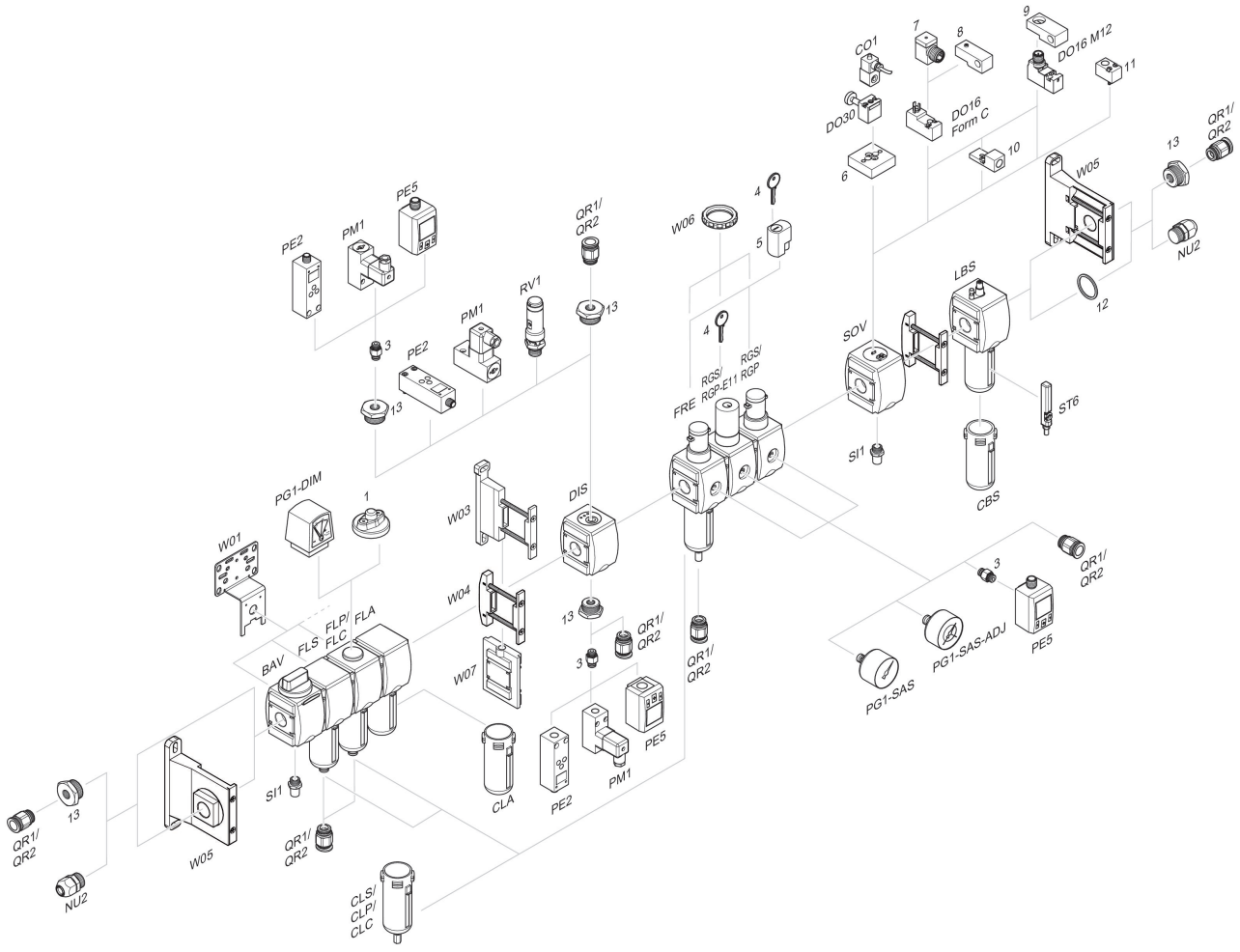

p2 = secondary pressure qn = nominal flow

## 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