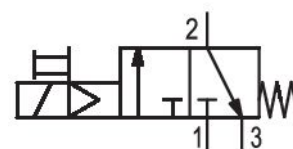


# 3/2-directional valve, electrically operated, Series AS5-SOV

R412009375

## 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	Electrically
Nominal flow Qn	12500 l/min
Compressed air connection	G 3/4
Working pressure min.	2.5 bar
Working pressure max	10 bar
DC operating voltage	24 V
Sealing principle	soft seal
Connection type	Pipe connection
Parts	3/2-directional valve
Can be assembled into blocks	Can be assembled into blocks
basic valve with electrical connector	Basic valve with pilot valve
Type	Poppet valve

Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Medium	Compressed air Neutral gases
Max. particle size	5 µm
Compressed air connection, exhaust	G 1/2
Nominal flow Qn 1 to 2	12500 l/min
Nominal flow Qn 2 to 3	3700 l/min
Operating voltage	24 V DC
Power consumption DC	2 W
Protection class with connection	IP65
Electrical connection 2, thread size	M12x1
Weight	0.65 kg

## Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material threaded bushing	Die cast zinc
Material front plate	Acrylonitrile butadiene styrene
Part No.	R412009375

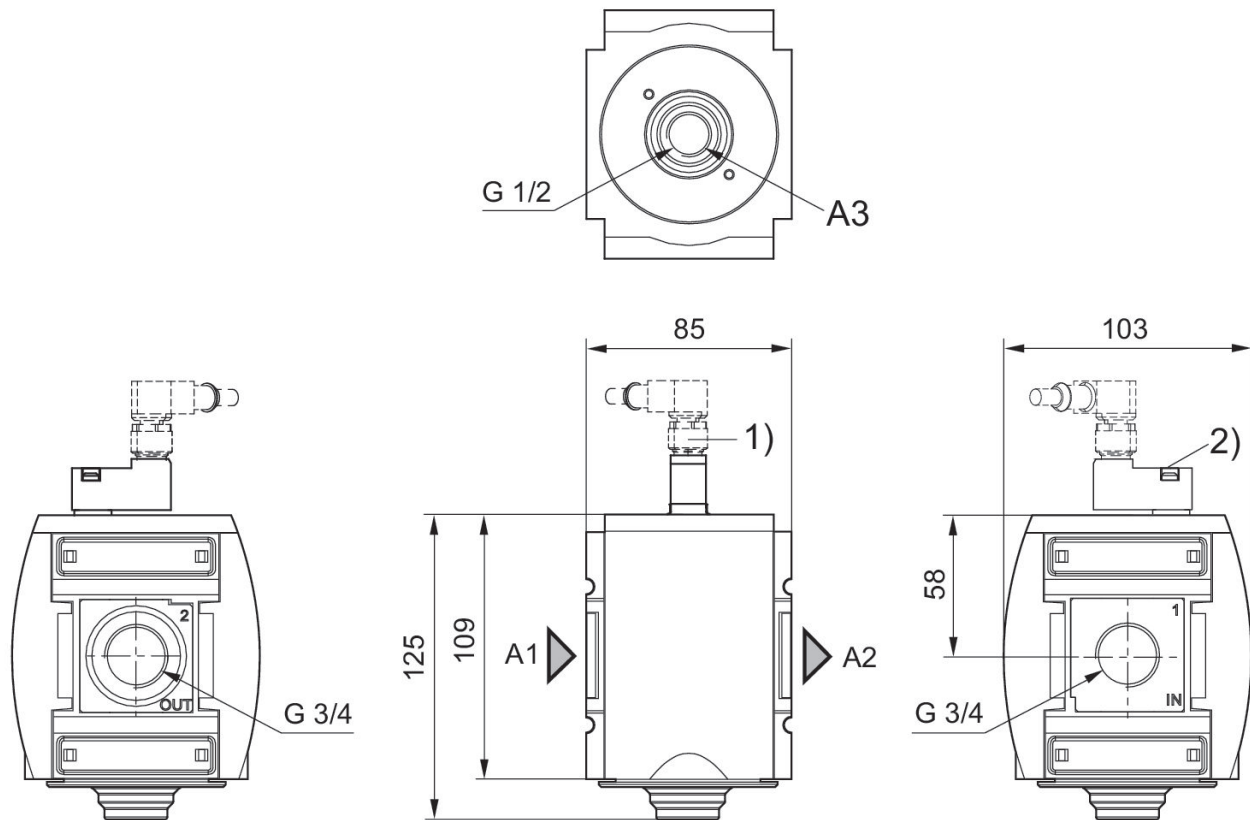
## Technical information

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  $p_2 = 6$  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.

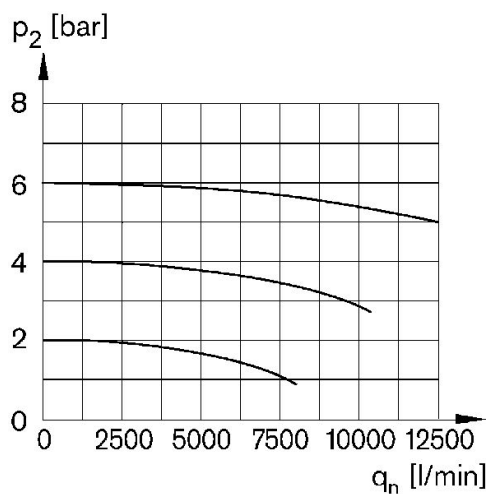
### Dimensions in mm



- A1 = input
- A2 = output
- A3 = ventilation port
- 1) plug M12
- 2) Manual override

### Flow rate characteristic

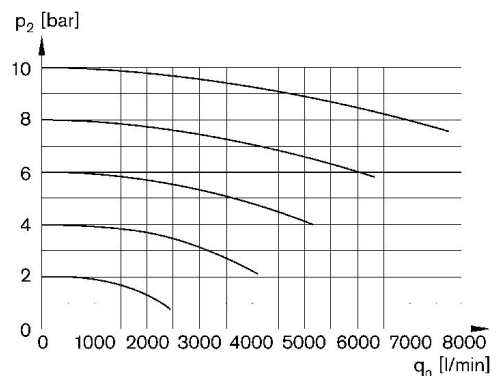
$p_2 = 0,05 - 7 \text{ bar}, 1 > 2$



$p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

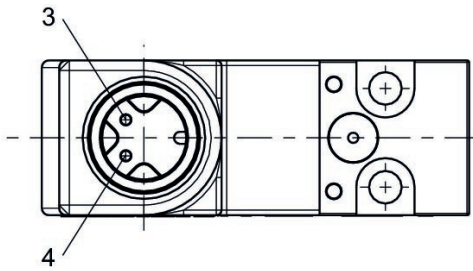
### Rear exhaust

$2 > 3$



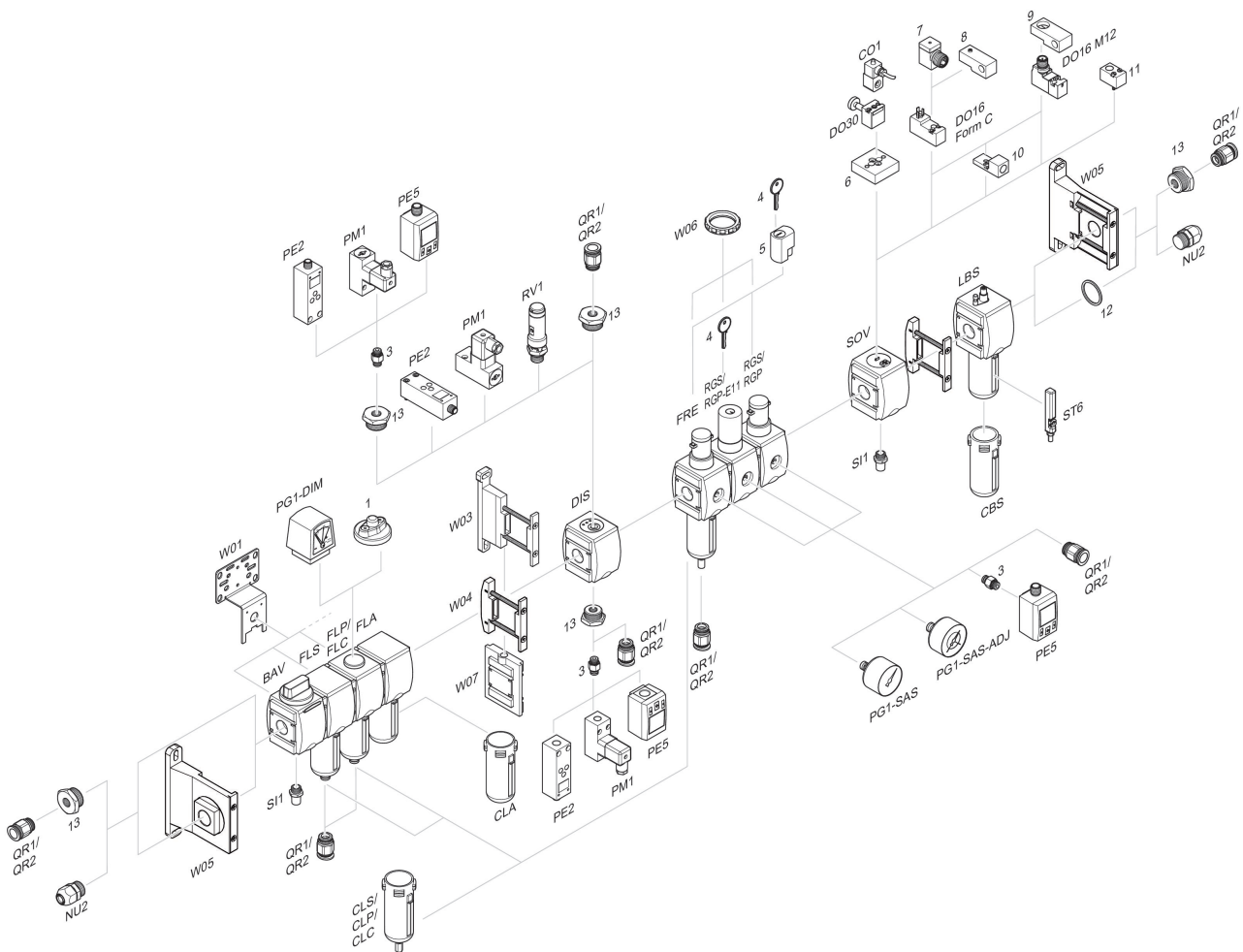
$p_2$  = Secondary pressure  
 $q_n$  = Nominal flow

## 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