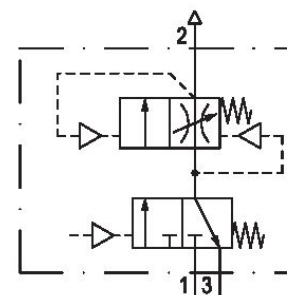


# Filling unit, pneumatically operated, Series AS5-SSU

R412009276

## 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  
adjustable filling time

Activation  
Pneumatically

Parts  
3/2-directional valve  
Filling valve

Nominal flow Qn  
8750 l/min

Compressed air connection  
G 3/4

Working pressure min.  
0 bar

Working pressure max  
16 bar

Connection type  
Pipe connection

Sealing principle  
Soft Seal

Type  
Poppet valve

Pilot  
Internal

Can be assembled into blocks	Max. particle size
Can be assembled into blocks	40 µm
Control pressure min.	Compressed air connection pilot exhaust
2.5 bar	G 1/8
Control pressure max.	Compressed air connection, exhaust
16 bar	G 1/2
Min. ambient temperature	Nominal flow Qn 1 to 2
-10 °C	8750 l/min
Max. ambient temperature	Nominal flow Qn 2 to 3
50 °C	3700 l/min
Medium	Weight
Compressed air	0.924 kg
Neutral gases	

## Material

Housing material	Material threaded bushing
Polyamide	Die cast zinc
Seal material	Part No.
Acrylonitrile butadiene rubber	R412009276
Material, front cover	
Acrylonitrile butadiene styrene	

## 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  $p_2 = 6$  bar at  $\Delta p = 1$  bar

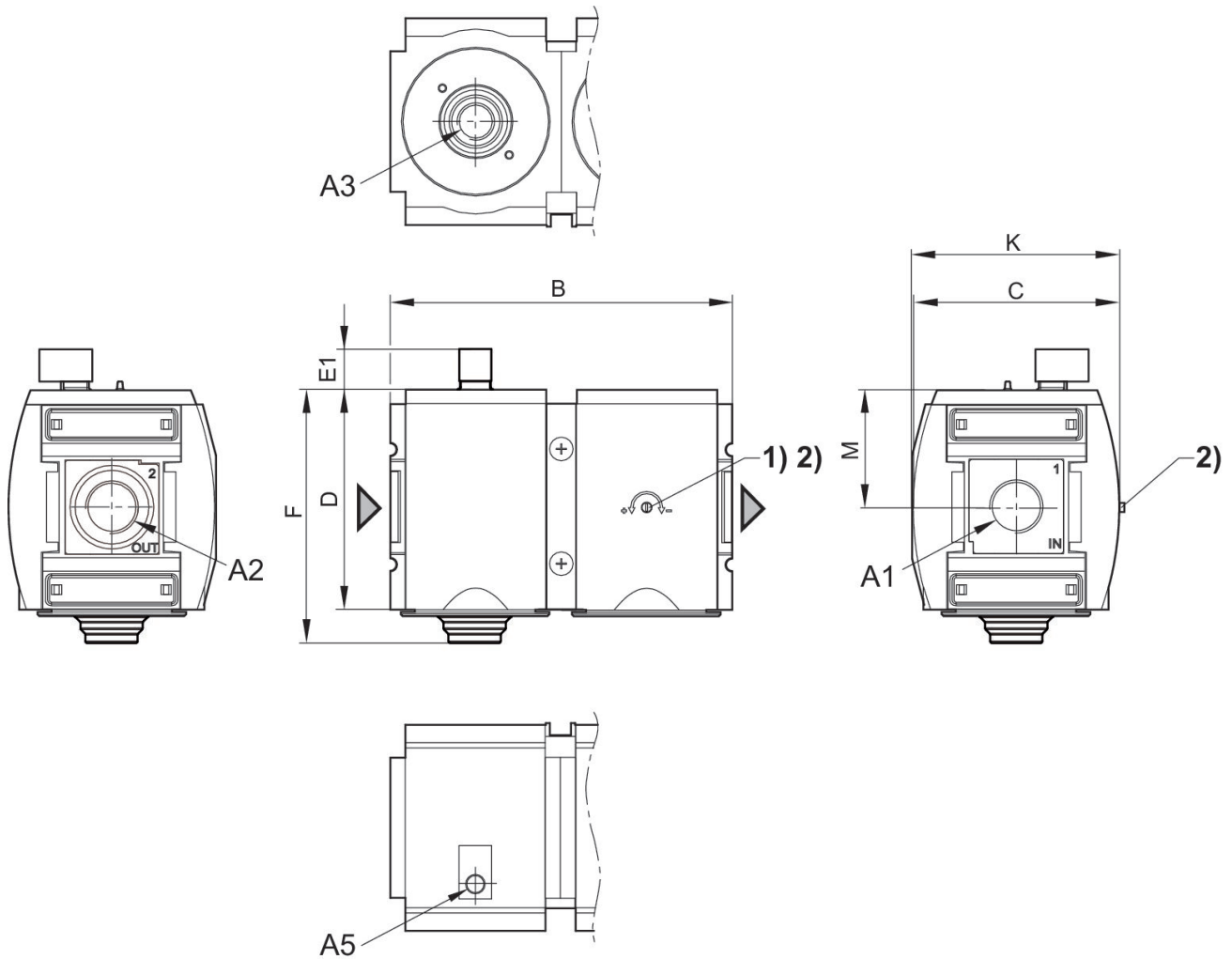
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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.

Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

adjustable filling time

## Dimensions



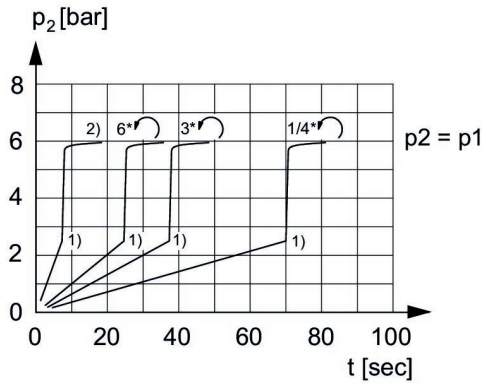
A1 = input A2 = output A3 = ventilation port A5 = control pressure connection  
1) Adjustment screw for filling time  
2) Adjustment screw lock

## Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	E1	F
R412009276	G 3/4	G 3/4	G 1/2	G 1/8	170	103	109	20.2	125
R412009281	G 1	G 1	G 1/2	G 1/8	170	103	109	20.2	125
R412009289	G 1	G 1	G 1/2	G 1/8	170	103	109	20.2	125

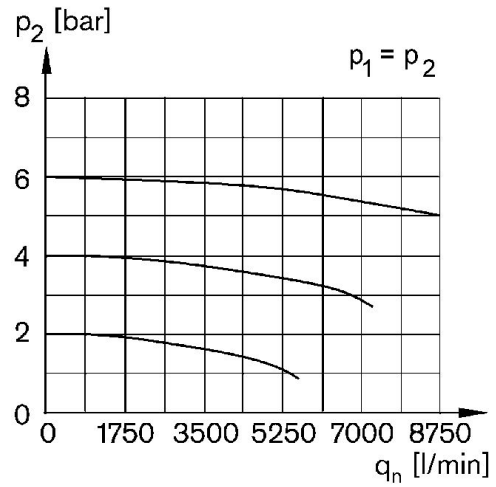
Part No.	K	M
R412009276	103.5	58
R412009281	103.5	58
R412009289	103.5	58

### Secondary pressure while filling



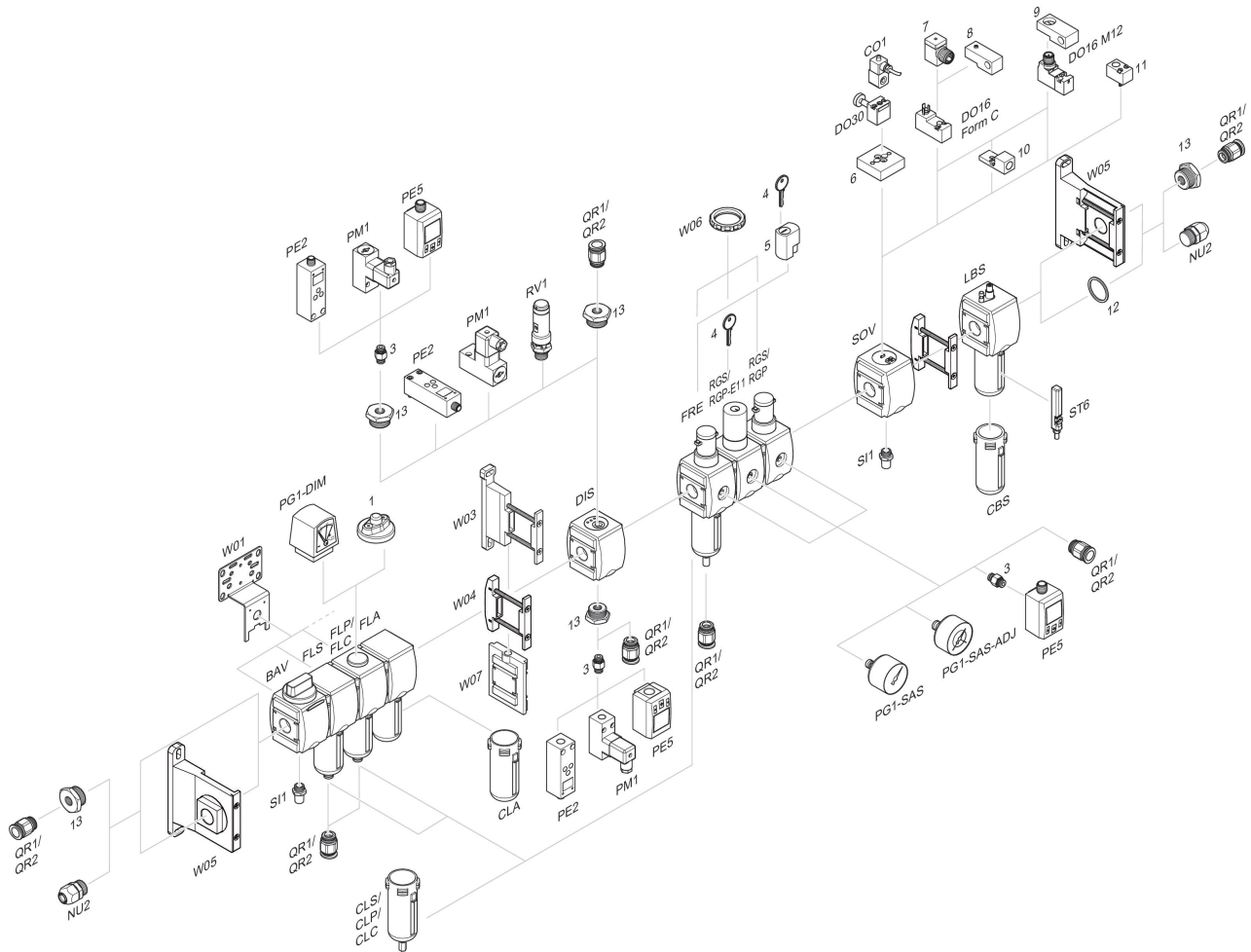
- p1 = Working pressure  
p2 = Secondary pressure  
t = filling time, adjustable via adjustment screw (throttle)  
1) Switching point: adjustable filling time, fixed change-over pressure  $\approx 0.5 \times p_1$  (50%)  
2) Throttle fully opened  
\* Adjustment screw rotations

### Flow rate characteristic, $p_2 = 0,05 - 7$ bar



p1 = Working pressure 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