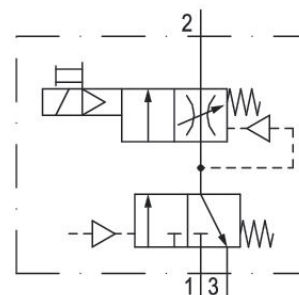


Filling unit, pneumatically operated, Series AS5-SSU

R412009379

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
Pneumatically

Parts
3/2-directional valve
Filling valve

Nominal flow Qn
8750 l/min

Compressed air connection
G 1

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
Can be assembled into blocks

Control pressure min. 2.5 bar	Max. particle size 25 µm
Control pressure max. 16 bar	Compressed air connection pilot exhaust G 1/8
Min. ambient temperature -10 °C	Compressed air connection, exhaust G 1/2
Max. ambient temperature 50 °C	Nominal flow Qn 1 to 2 8750 l/min
Medium Compressed air Neutral gases	Nominal flow Qn 2 to 3 3700 l/min
	Weight 0.924 kg

Material

Housing material Polyamide	Material threaded bushing Die cast zinc
Seal material Acrylonitrile butadiene rubber	Part No. R412009379
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 p2 = 6 bar at $\Delta p = 1$ bar

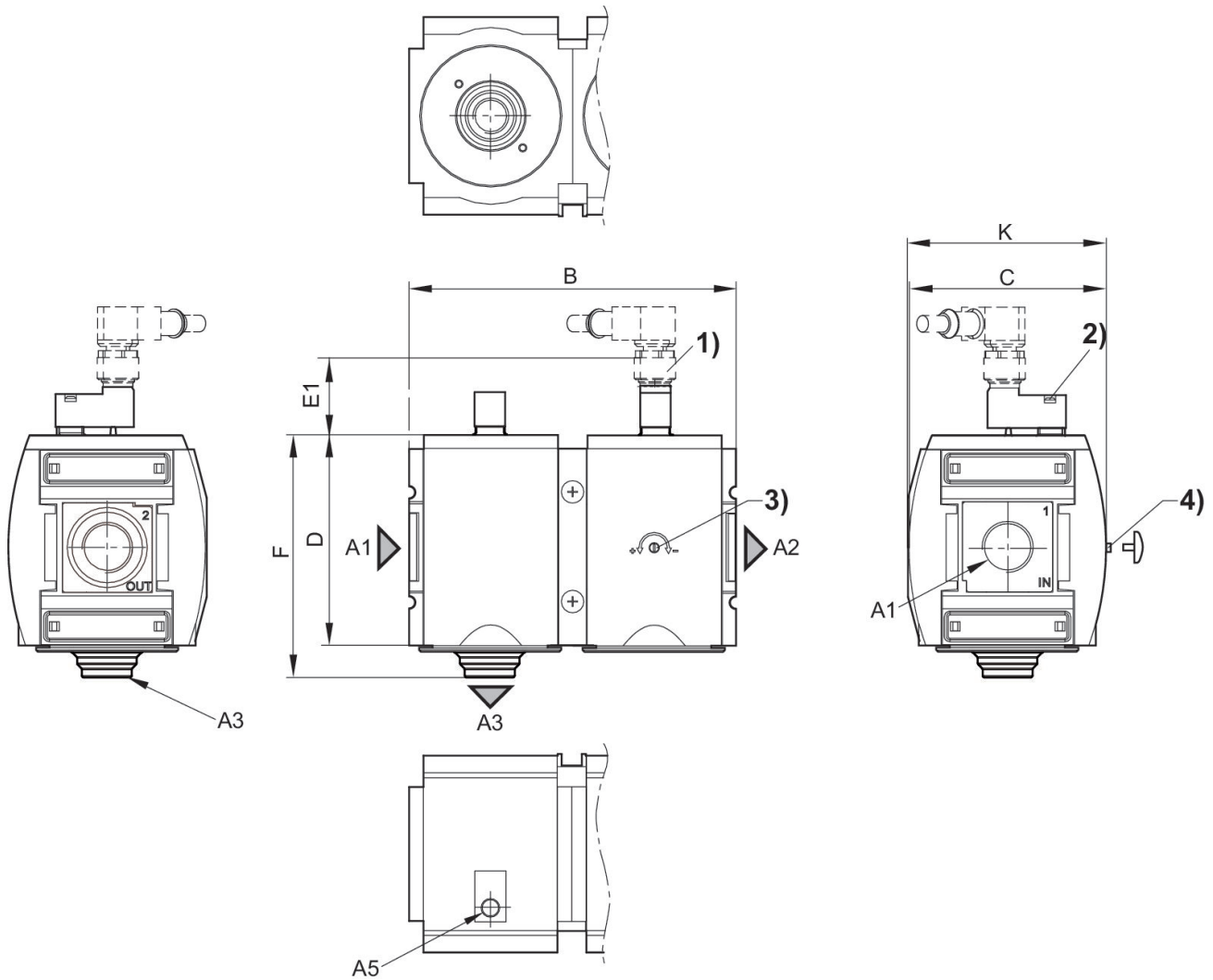
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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 p1 is immediately applied.

With pneumatic priority circuit, adjustable filling time.

Dimensions



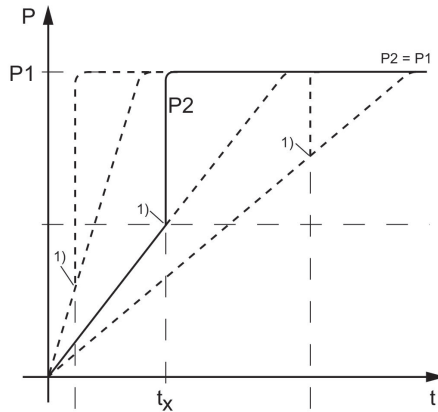
- A1 = input A2 = output A3 = ventilation port A5 = control pressure connection
 1) plug M12
 2) Manual override
 3) Adjustment screw for filling time
 4) Adjustment screw lock

Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	E1	F
R412009379	G 1	G 1	G 1/2	G 1/8	170	103	109	39	125

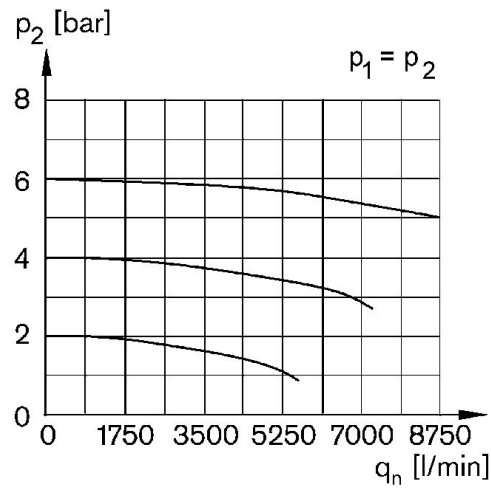
Part No.	K
R412009379	103.5

Secondary pressure while filling



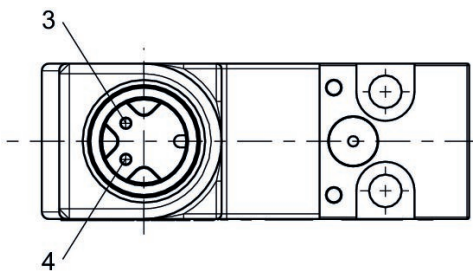
p1 = Working pressure
p2 = Secondary pressure
t = filling time
tx = switchover time
1) Electrically triggered switching point
Filling time adjustable via adjustment screw (throttle)

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



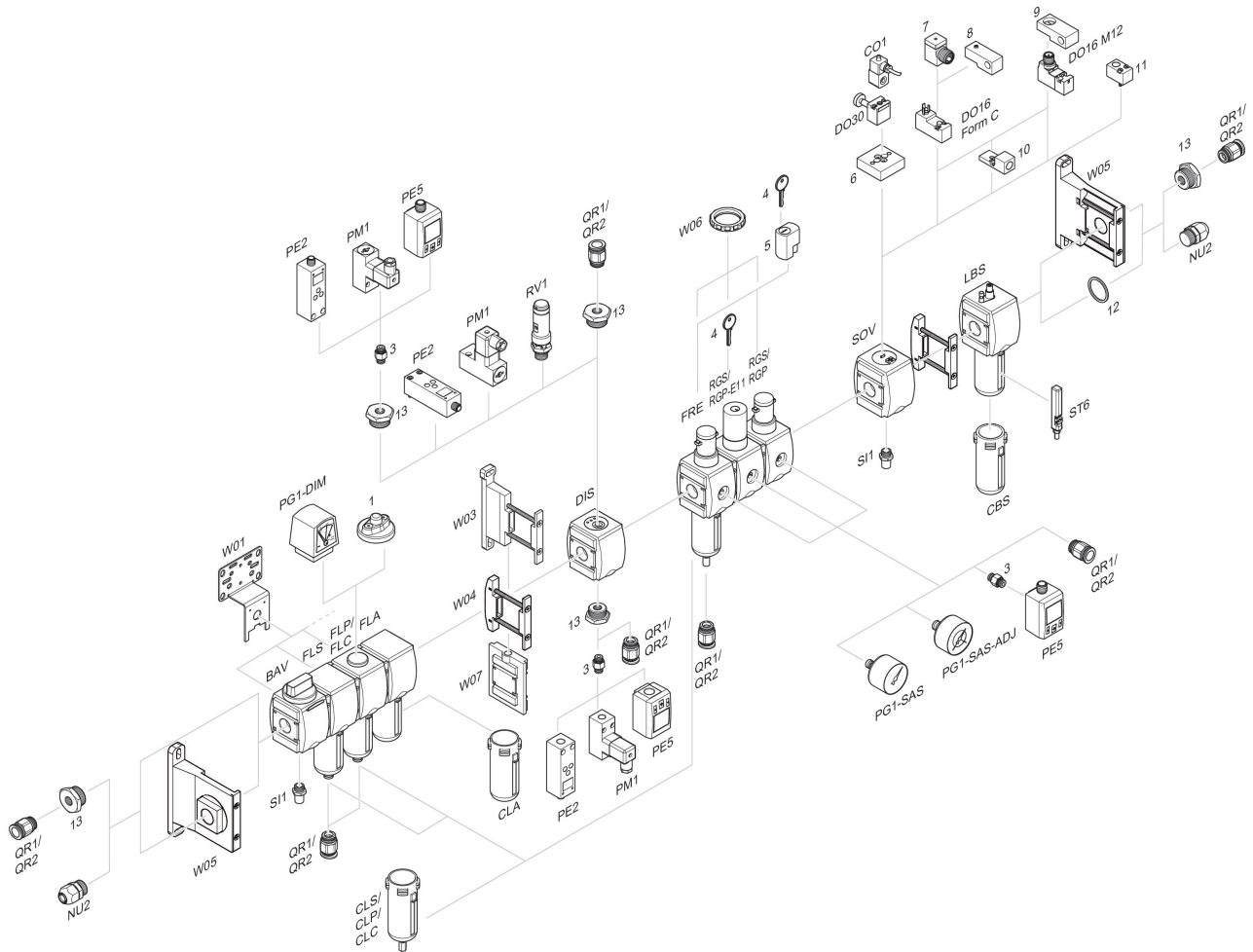
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

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