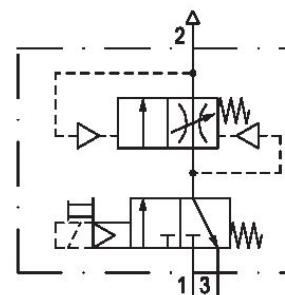


Filling unit, electrically operated, Series AS1-SSU

R412010484

General series information Series AS1

- The AVENTICS Series AS1 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 Q_n
1300 l/min

Compressed air connection output
G 1/4

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Pilot
Internal

Connection type
Pipe connection

Parts

3/2-directional valve
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

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air
Neutral gases

Max. particle size
25 µm

Compressed air connection
G 1/4

Compressed air connection input
G 1/4

Compressed air connection, exhaust
G 1/4

Air supply
left

Nominal flow Qn 1 to 2
1300 l/min

Nominal flow Qn 2 to 3
380 l/min

Power consumption DC
2 W

Duty cycle
100 %

Protection class with connection
IP65

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

Weight
0.36 kg

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene

Part No.
R412010484

Technical information

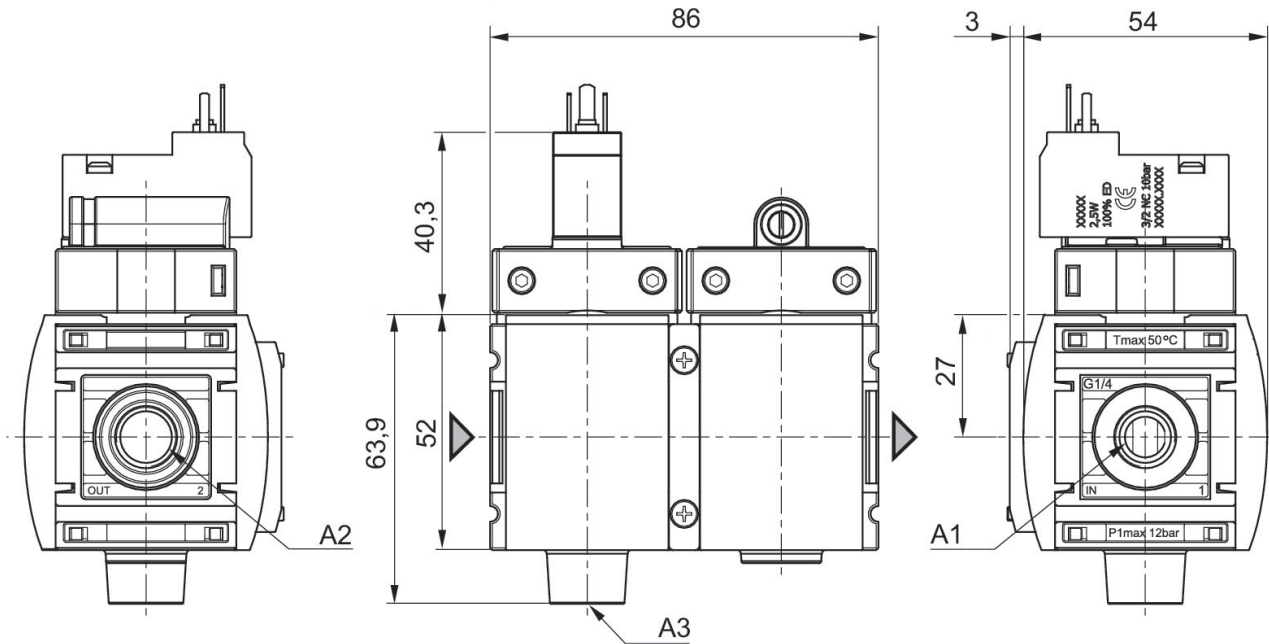
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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.

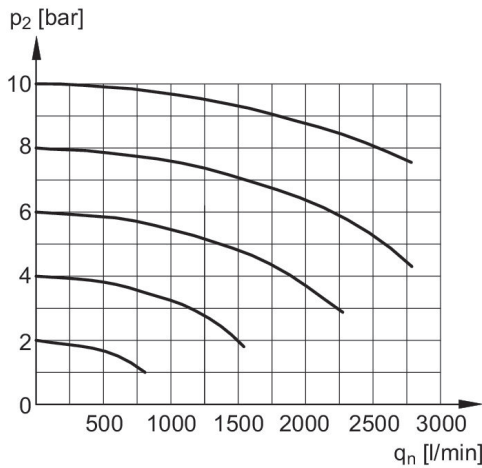
Nominal flow Qn with secondary pressure $p_2 = 6$ bar at $\Delta p = 1$ bar

Dimensions in mm



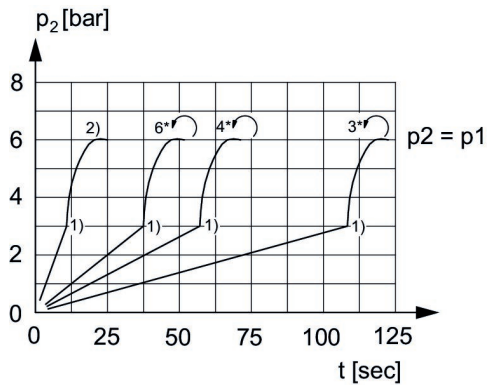
A1 = input
 A2 = output
 A3 = ventilation port

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

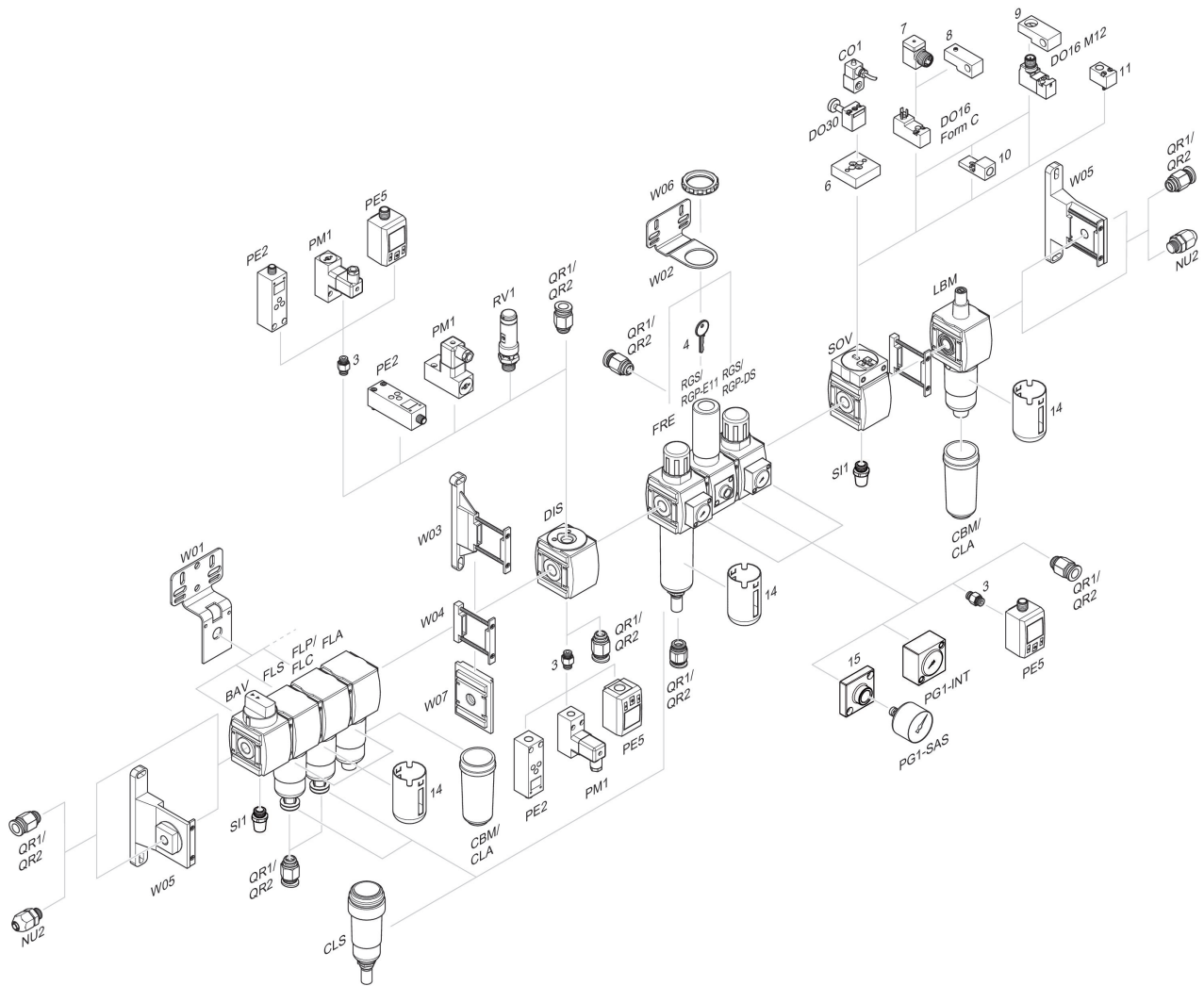


p_2 = secondary pressure
 q_n = nominal flow

Secondary pressure while filling



p_1 = working pressure
 p_2 = 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



3 = Double nipple 4 = Key for E11 locking 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 14 = Protective guard 15 = Transition plate for assembling a pressure gauge with connection thread G 1/8