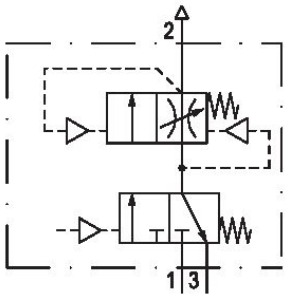
Filling unit, pneumatically operated, Series AS2-SSU

R412006281

General series information
Series AS2

- The AVENTICS Series AS2 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
2000 l/min

Compressed air connection
G 3/8

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

Control pressure max.
16 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium
Compressed air
Neutral gases

Max. particle size
40 µm

Compressed air connection pilot exhaust
G 1/8

Compressed air connection, exhaust
G 1/4

Nominal flow Qn 1 to 2
2000 l/min

Nominal flow Qn 2 to 3
380 l/min

Weight
0.424 kg

Material

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material, front cover
Acrylonitrile butadiene styrene

Material threaded bushing
Die cast zinc

Part No.
R412006281

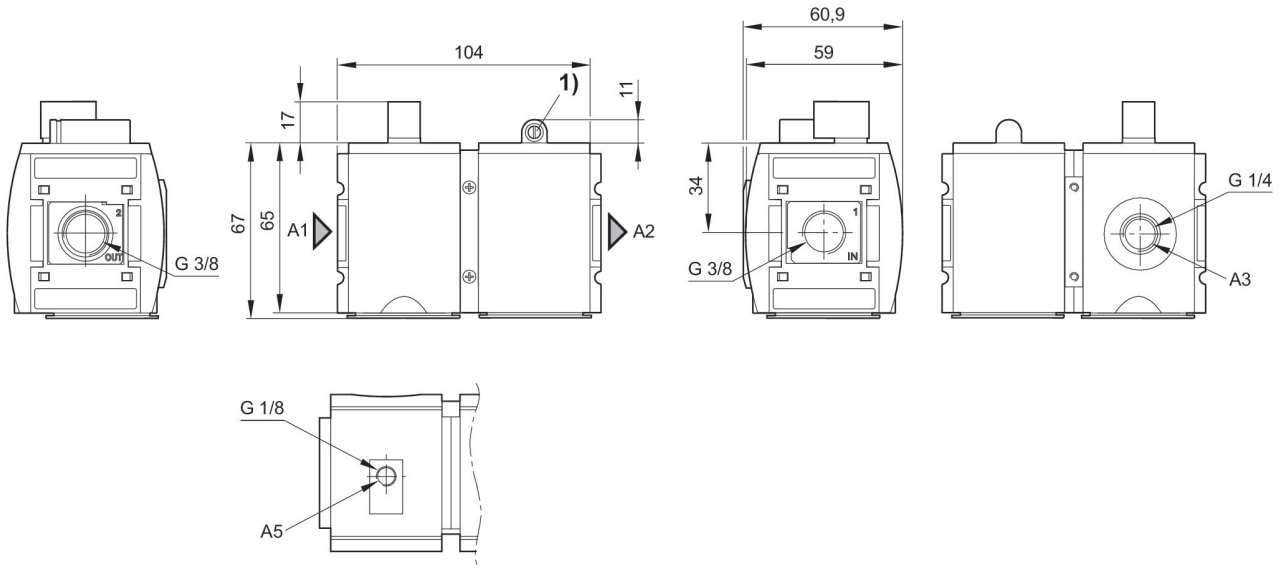
Technical information

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 Δp = 1 bar

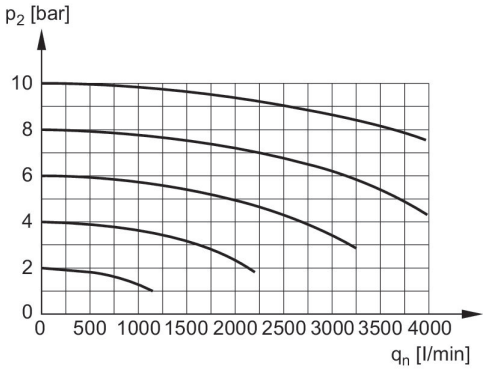
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Dimensions in mm



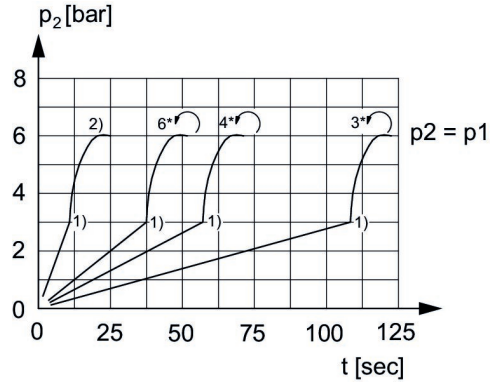
A1 = input
A2 = output
A3 = ventilation port
A5 = Control pressure connection
1) Adjustment screw for filling time

Flow rate characteristic



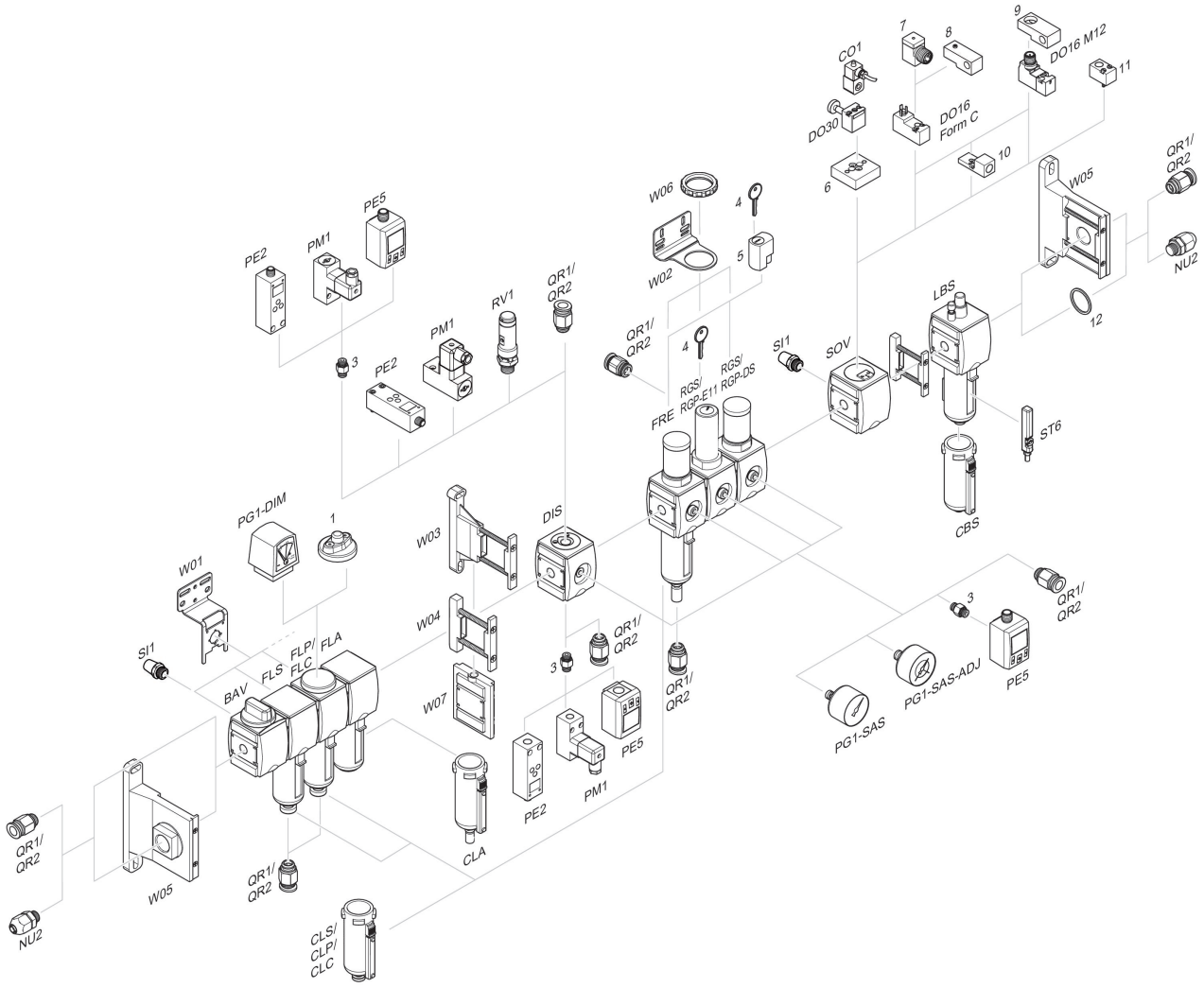
p2 = Secondary pressure
qn = Nominal flow

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 ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

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