

Filling unit, pneumatically operated, Series AS2-SSU

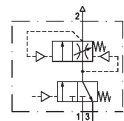
R412006289

Series AS2

2026-08-11

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

Type

Activation

Parts

Nominal flow Q_n

Compressed air connection

Min. working pressure

Max. working pressure

Connection type

Sealing principle

Type

Pilot

Can be assembled into blocks

Min. control pressure

Max. control pressure

Min. ambient temperature

Max. ambient temperature

Industrial

adjustable filling time

Archive product: Do not use in new constructions!

Pneumatically

3/2-directional valve

Filling valve

2000 l/min

G 1/4

0 bar

16 bar

Pipe connection

Soft seal

Poppet valve

Internal

Can be assembled into blocks

2.5 bar

16 bar

-10 °C

50 °C

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Medium	Compressed air Neutral gases
Max. particle size	40 µm
Compressed air connection pilot exhaust	G 1/4
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.	R412006289

Technical information

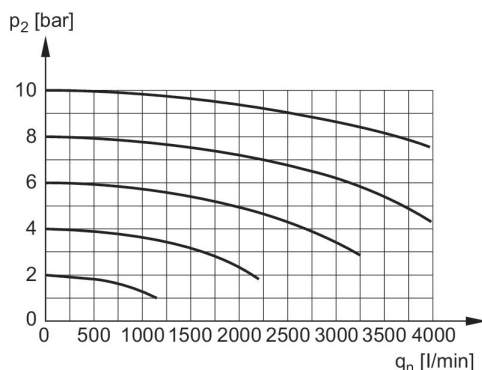
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ 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.

With adjustment screw lock

Flow rate characteristic



p2 = Secondary pressure
qn = Nominal flow

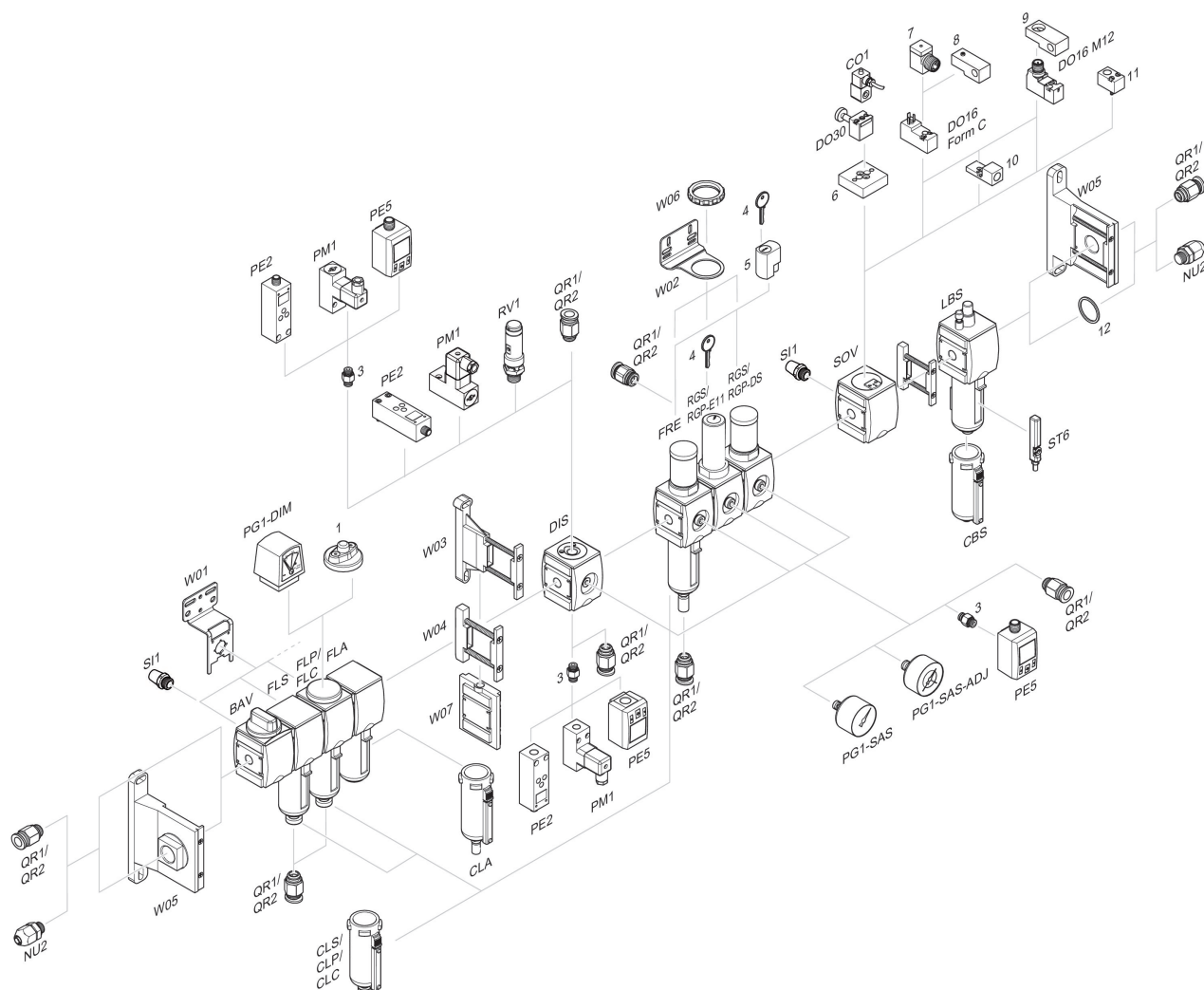
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Accessories overview



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

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The diagram shows pressure p_2 [bar] on the y-axis (0 to 8) and time t [sec] on the x-axis (0 to 125). The final pressure is $p_2 = p_1 = 6$ bar. The processes are:

- Process 1-2: Isothermal compression (curved line).
- Process 1-3: Polytropic compression (linear line).
- Process 1-4: Polytropic compression (linear line).
- Process 1-6: Polytropic compression (linear line).

The processes are labeled 1, 2, 3, 4, 6. The processes 1-3, 1-4, and 1-6 are linear, representing polytropic compression with different indices.

* Adjustment screw rotations

Technical drawings of the 1000 series pressure washer, showing front, side, and rear views with dimensions and labels.

Front View (Left): Shows the front of the unit with a central spray gun. Labels include "2)" pointing to the top handle, "1) 2)" pointing to the top handle, "A1" pointing to the front panel, "G 1/4" pointing to the front panel, and "OUT" pointing to the spray gun. Dimensions include 67, 65, 17, 104, 11, and 60,9.

Side View (Middle): Shows the side of the unit. Labels include "A2" pointing to the side panel. Dimensions include 60,9, 59, 34, and 67.

Rear View (Right): Shows the rear of the unit. Labels include "G 1/4" pointing to the rear panel, "A3" pointing to the rear panel, and "IN" pointing to the inlet. Dimensions include 60,9, 59, 34, and 67.

Bottom View (Bottom): Shows the bottom of the unit. Labels include "G 1/8" pointing to the bottom panel and "A5" pointing to the bottom panel.

- 1) Adjustment screw for H
- 2) Adjustment screw lock