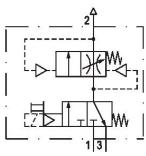
Filling unit, electrically operated, Series AS1-SSU

R412010682

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

DC operating voltage

Industry Industrial

Type adjustable filling time

24 V

Activation Electrically

Nominal flow Qn 1300 l/min

Compressed air connection G 1/4

Working pressure min. 2.5 bar

Working pressure max 10 bar

Sealing principle soft seal

Pilot Internal



Connection type Pipe connection
Parts 3/2-directional valve

Filling valve

Can be assembled into blocks
basic valve with electrical connector

Can be assembled into blocks

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 $25 \ \mu m$ Compressed air connection, exhaust $G \ 1/4$ Air supply left

Nominal flow Qn 1 to 2 1300 I/min Nominal flow Qn 2 to 3 380 I/min 24 V DC Operating voltage 2 W Power consumption DC 100 % Duty cycle Protection class with connection **IP65** Electrical connection type 2 Plug Electrical connection 2, thread size M12x1 Weight 0.377 kg

Material

Housing material Polyamide

Seal material Acrylonitrile butadiene rubber

Material threaded bushing Die cast zinc

Material front plate Acrylonitrile butadiene styrene

Part No. R412010682

Technical information

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

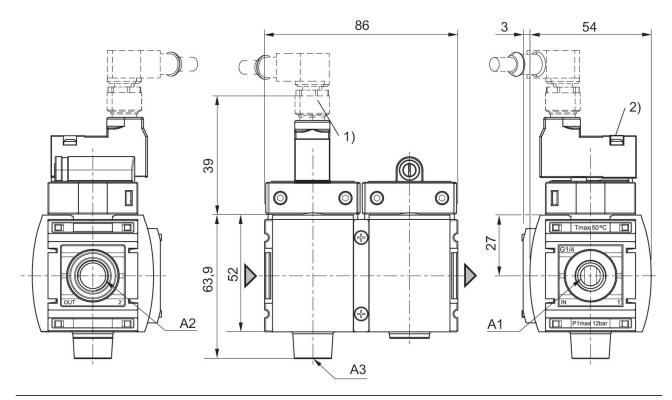
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

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.

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.



Dimensions in mm



A1 = input

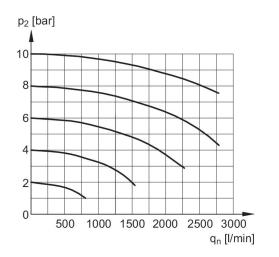
A2 = output

A3 = ventilation port

1) plug M12

2) Manual override

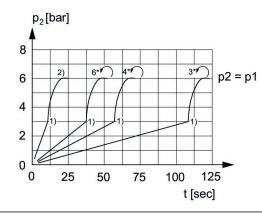
Flow rate characteristic, p2 = 0,05 - 7 bar



p2 = Secondary pressure

qn = Nominal flow

Secondary pressure while filling



p1 = Working pressure

p2 = Secondary pressure

t = filling time, adjustable via adjustment screw (throttle)

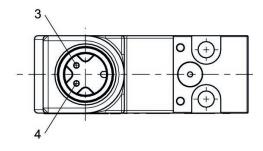
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x n1 (50%)

2) Throttle fully opened

* Adjustment screw rotations

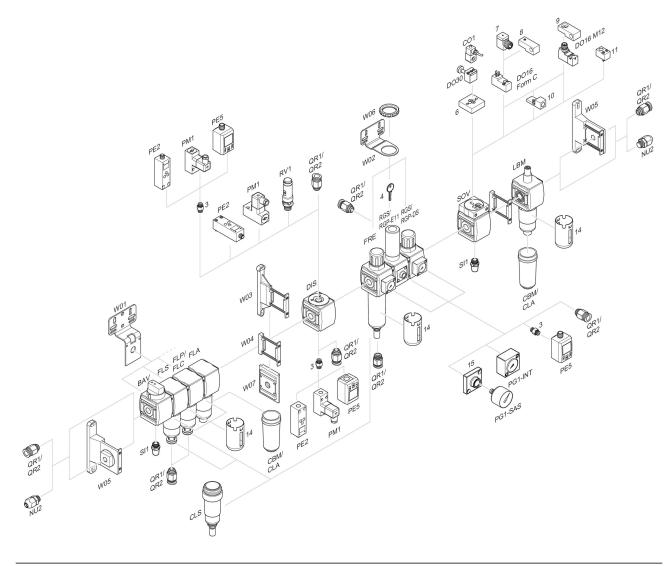


Pin assignment M12x1



3: +/-

Accessories overview



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

