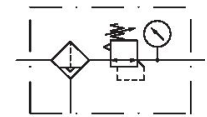


AVENTICS Series AS1 Air Preparation Units

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.

- This modular versatile series allows to combine a huge range of different functions
- Low weight



Technical data

Industry

Industrial

Note

Archive product: Do not use in new constructions!

Parts

Filter pressure regulator

Reservoir

reservoir, polycarbonate, without protective guard

Port

G 1/4

Nominal flow Qn

1000 l/min

Filter porosity

5 µm

Condensate drain

fully automatic, open without pressure

Pressure gauge

With integrated pressure gauge

Min. working pressure

1.5 bar

Max. working pressure

12 bar

Min. ambient temperature

-10 °C

Max. ambient temperature

50 °C

Air supply

left

Min. regulation range

0.5 bar

Max. regulation range

8 bar

Lock type

not lockable

Type

1-part

Type

Can be assembled into blocks

Pressure supply

single

Mounting orientation

vertical

Regulator type

Diaphragm-type pressure regulator

Regulator function

with relieving air exhaust

Filter pressure regulator, Series AS1-FRE

AS1

R412014646

2026-03-31

Filter element	exchangeable
Filter reservoir volume	16 cm ³
Max. achievable compressed air class acc. to ISO 8573-1:2010	6 : 7 : -
Medium	Compressed air Neutral gases
Weight	0.259 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material front plate	Acrylonitrile butadiene styrene
Material reservoir	Polycarbonate
Material filter insert	Cellpor
Part No.	R412014646

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

Also suitable for separation of fluid oil or water due to the design.

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

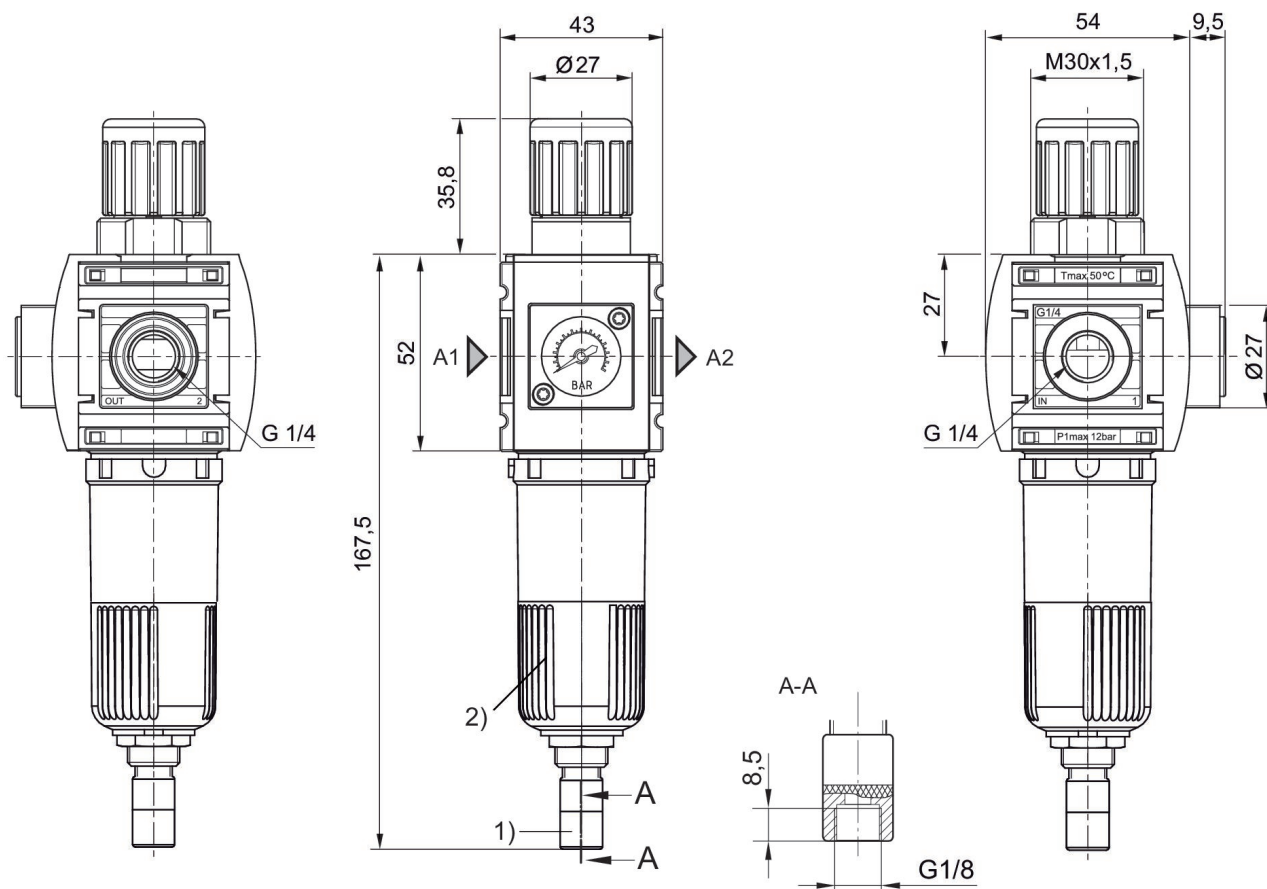
Filter pressure regulator, Series AS1-FRE

AS1

R412014646

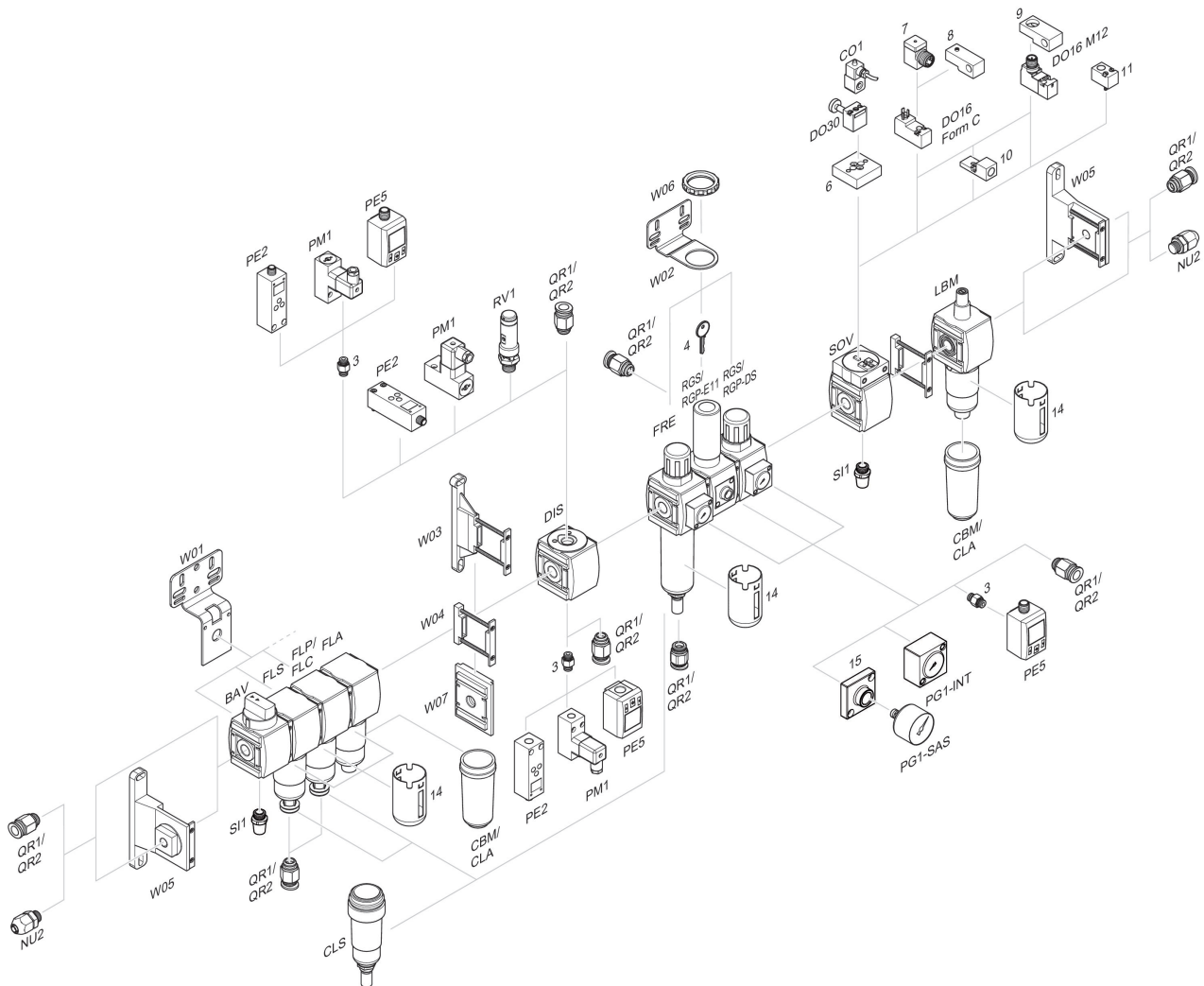
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Dimensions in mm



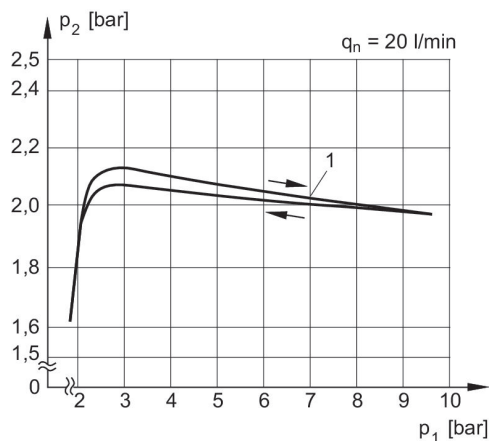
- 1) Fully automatic condensate drain
- 2) Reservoir: polycarbonate

Accessories overview



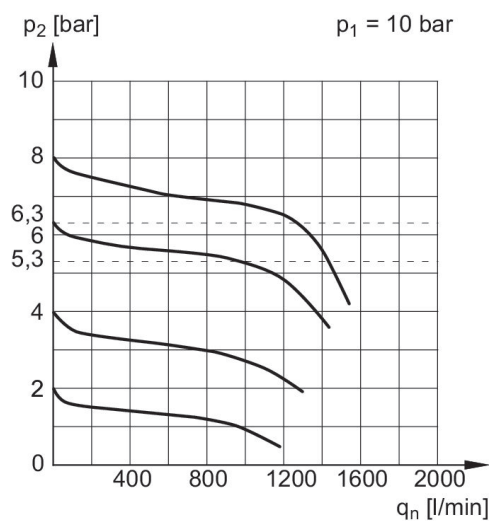
3 = Double nipple 4 = Key for E11 locking 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 14 = Protective guard 15 = Transition plate for assembling a pressure gauge with connection thread G 1/8

Pressure characteristics curve



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow
 1) = Starting point

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



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow