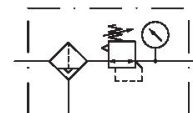


AVENTICS Series AS1 Air Preparation Units

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

Note

Parts

Reservoir

Port

Nominal flow Qn

Filter porosity

Condensate drain

Pressure gauge

Min. working pressure

Max. working pressure

Min. ambient temperature

Max. ambient temperature

Air supply

Min. regulation range

Max. regulation range

Lock type

Type

Type

Industrial

Archive product: Do not use in new constructions!

Filter pressure regulator

Metal reservoir without window

G 1/4

1000 l/min

5 µm

semi-automatic, open without pressure

With integrated pressure gauge

1.5 bar

12 bar

-10 °C

50 °C

left

0.5 bar

10 bar

not lockable

1-part

Can be assembled into blocks

Filter pressure regulator, Series AS1-FRE

AS1

R412014659

2026-03-31

Pressure supply	single
Mounting orientation	vertical
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
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	0.318 kg

Material

Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material front plate	Acrylonitrile butadiene styrene
Material reservoir	Die cast zinc
Material filter insert	Cellpor
Part No.	R412014659

Technical information

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

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

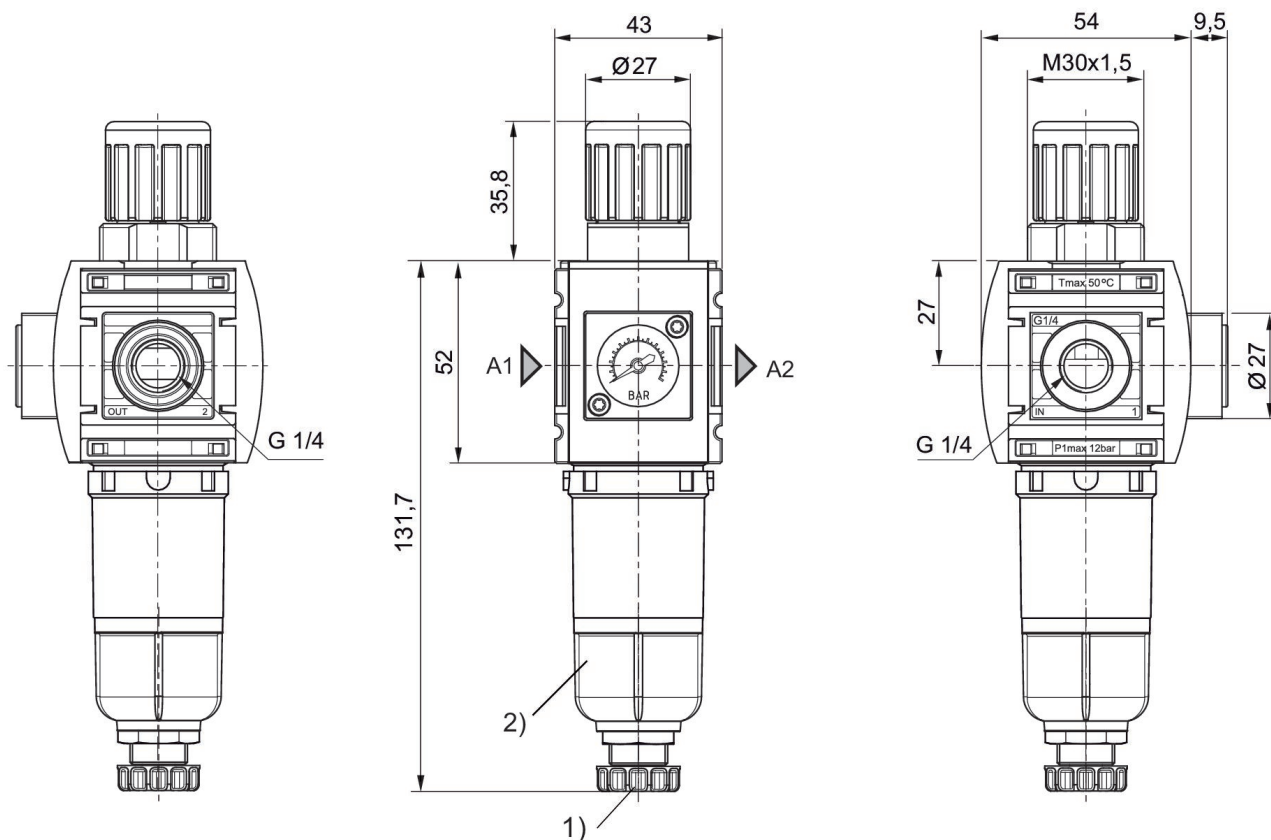
Filter pressure regulator, Series AS1-FRE

AS1

R412014659

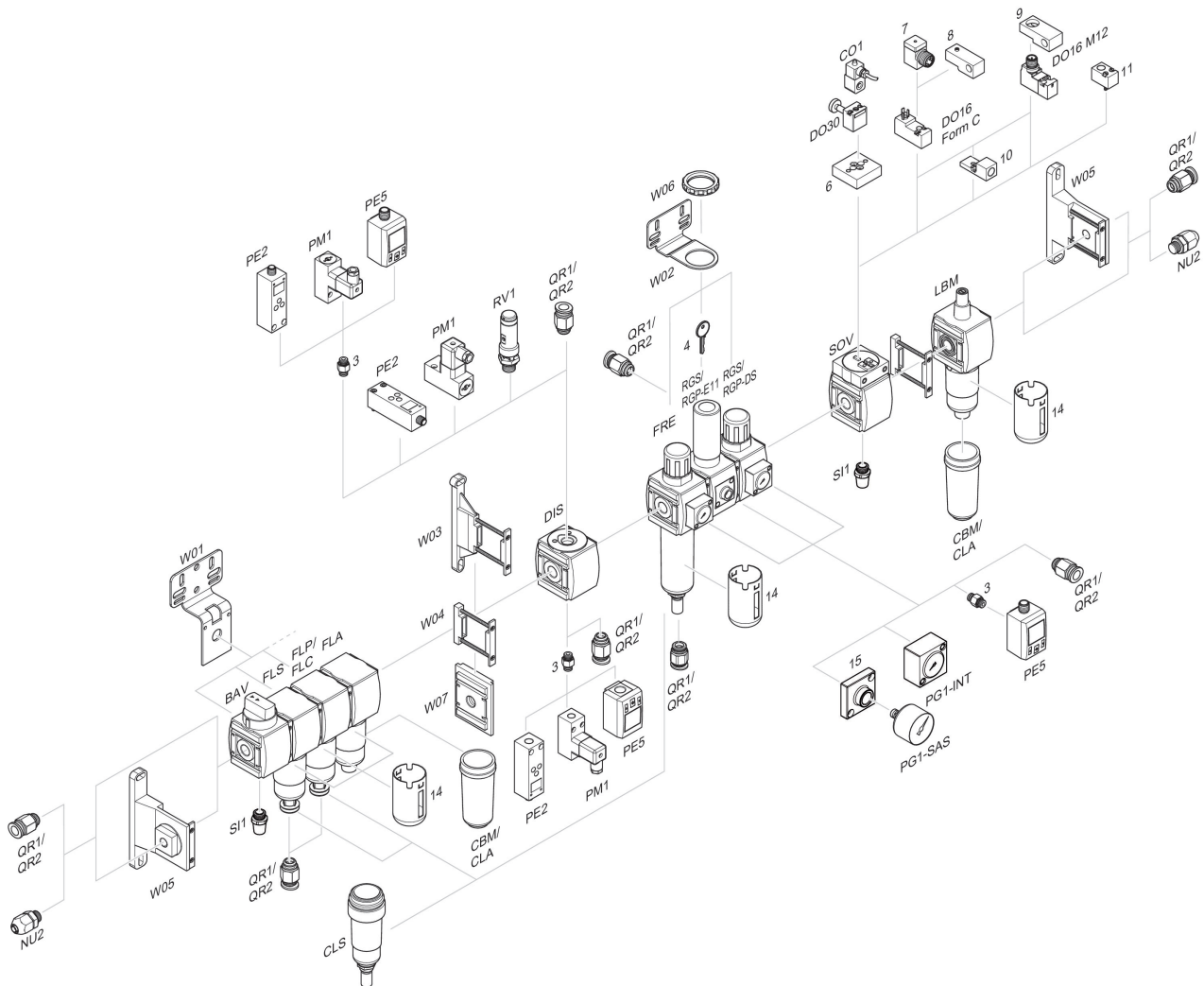
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Dimensions in mm



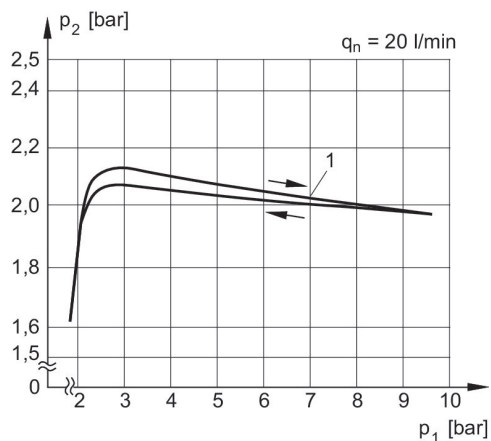
- 1) Semi-automatic condensate drain
- 2) Reservoir: metal

Accessories overview



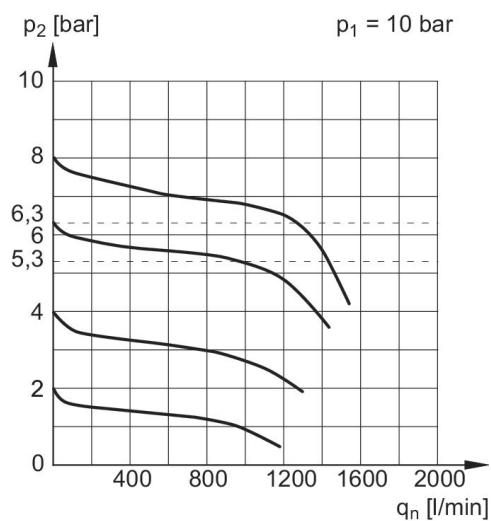
3 = Double nipple 4 = Key for E11 locking 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 14 = Protective guard 15 = Transition plate for assembling a pressure gauge with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