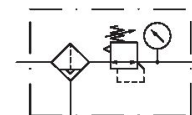


## AVENTICS Series AS1 Air Preparation Units

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

Industrial

Archive product: Do not use in new constructions!

Filter pressure regulator

reservoir, polycarbonate, with metal protective guard

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

# Filter pressure regulator, Series AS1-FRE

AS1

R412014658

2026-03-31

|                                                              |                                   |
|--------------------------------------------------------------|-----------------------------------|
| 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 element                                               | exchangeable                      |
| Filter reservoir volume                                      | 16 cm <sup>3</sup>                |
| Max. achievable compressed air class acc. to ISO 8573-1:2010 | 6 : 7 : -                         |
| Medium                                                       | Compressed air<br>Neutral gases   |
| Weight                                                       | 0.274 kg                          |

## Material

|                           |                                 |
|---------------------------|---------------------------------|
| Housing material          | Polyamide                       |
| Seal material             | Acrylonitrile butadiene rubber  |
| Material front plate      | Acrylonitrile butadiene styrene |
| Material reservoir        | Polycarbonate                   |
| Material protective guard | metal                           |
| Material filter insert    | Cellpor                         |
| Part No.                  | R412014658                      |

## 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<sub>n</sub> with secondary pressure p<sub>2</sub> = 6 bar at Δp = 1 bar

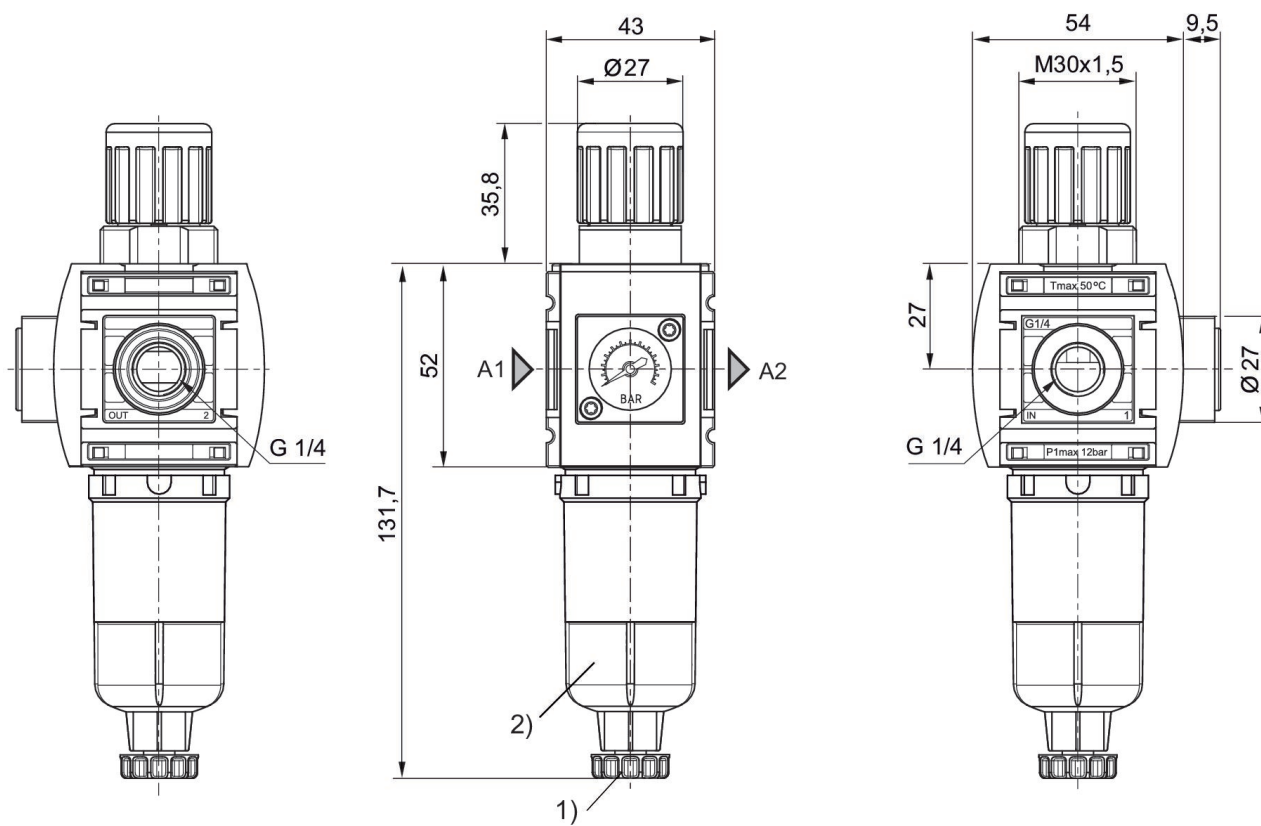
# Filter pressure regulator, Series AS1-FRE

AS1

R412014658

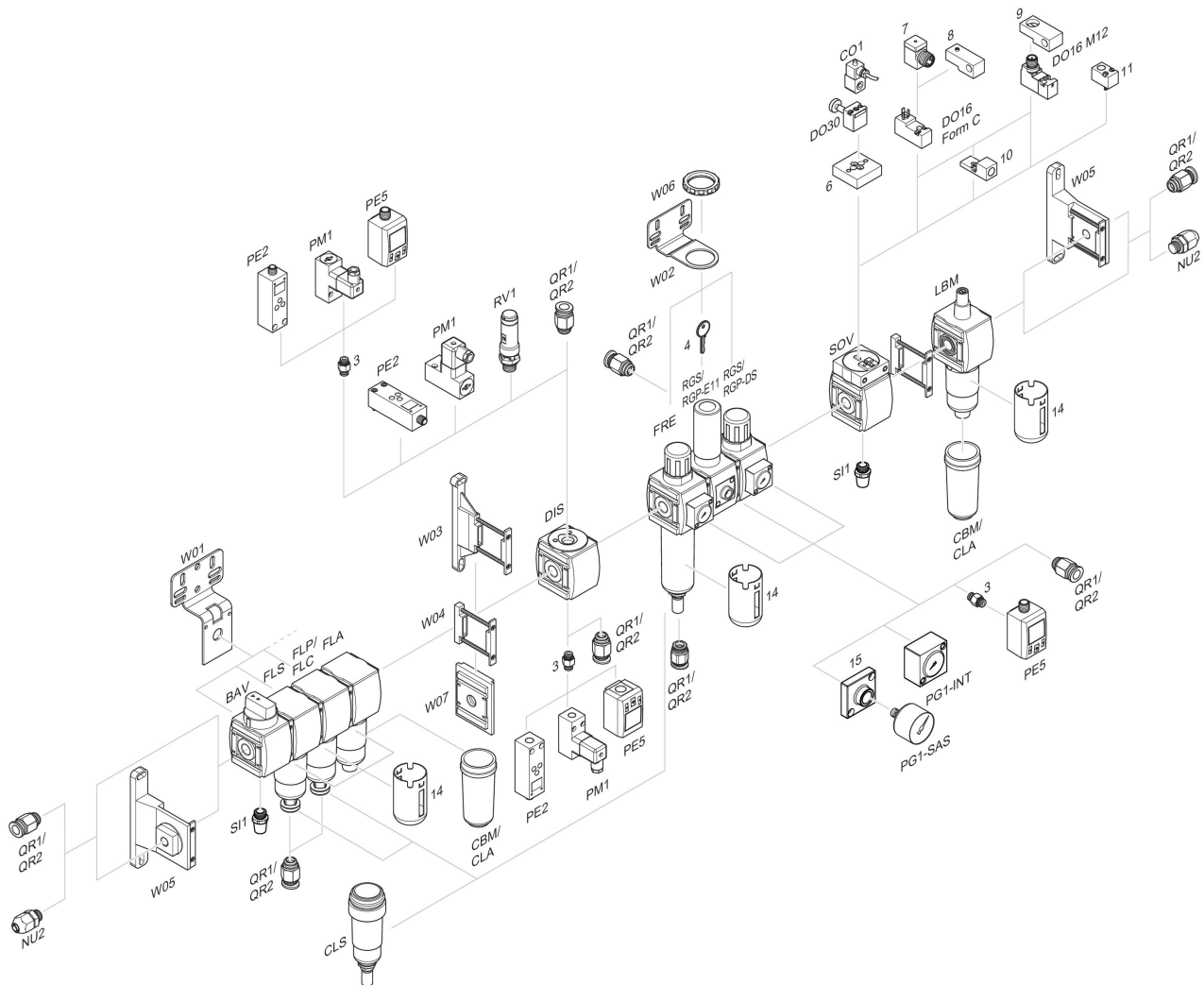
2026-03-31

## Dimensions in mm



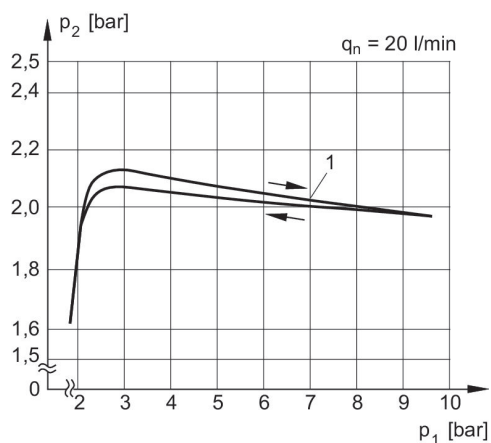
- 1) Semi-automatic condensate drain
- 2) Reservoir: polycarbonate

## Accessories overview



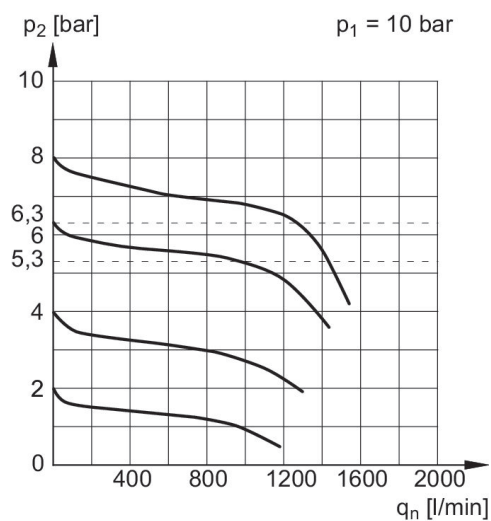
3 = Double nipple 4 = Key for E11 locking 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 14 = Protective guard 15 = Transition plate for assembling a pressure gauge with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