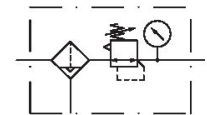


## AVENTICS Series AS1 Air Preparation Units

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

Metal reservoir without window

Port

G 1/4

Nominal flow Qn

1000 l/min

Filter porosity

5 µm

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 element

exchangeable

# Filter pressure regulator, Series AS1-FRE

AS1

R412014650

2026-03-31

|                                                              |                                 |
|--------------------------------------------------------------|---------------------------------|
| 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                                                       | 0.33 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.               | R412014650                      |

## 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 Qn with secondary pressure p2 = 6 bar at  $\Delta p = 1$  bar

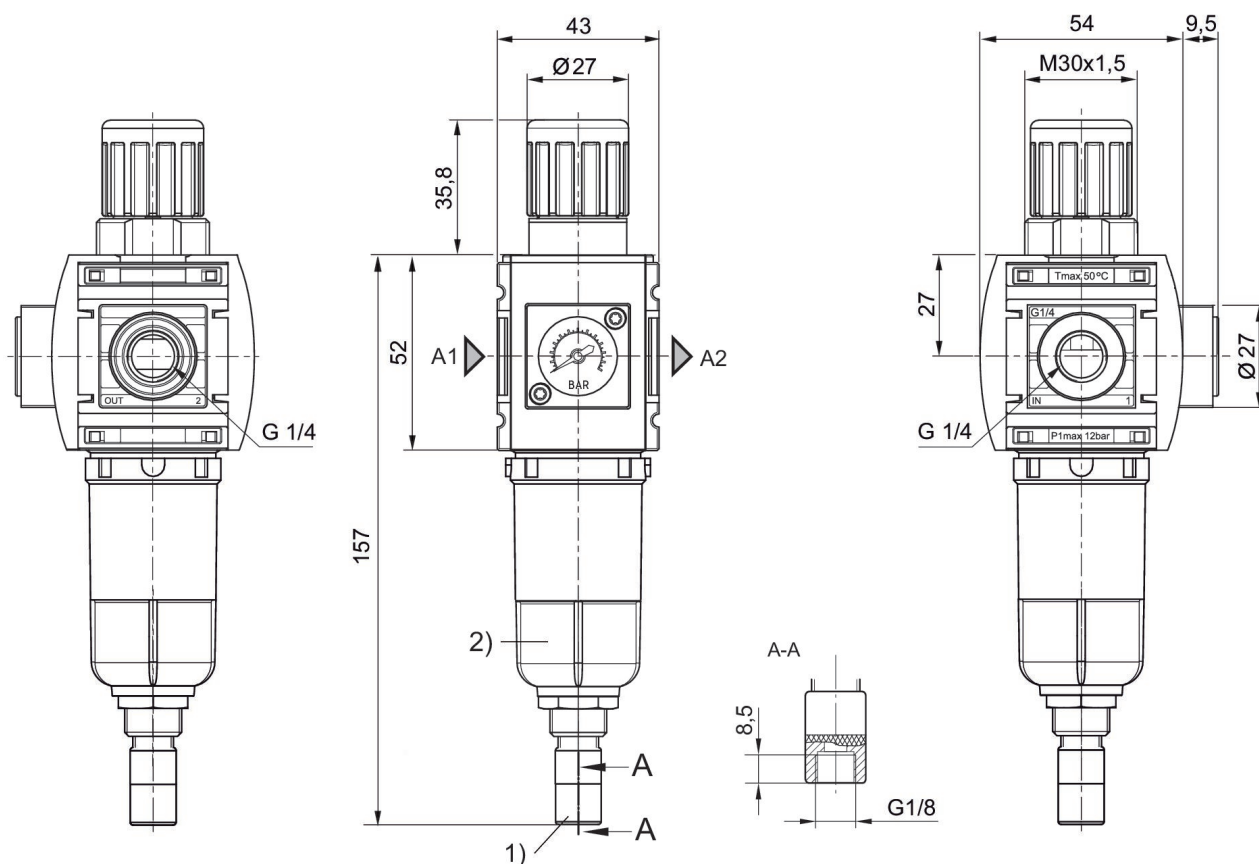
# Filter pressure regulator, Series AS1-FRE

AS1

R412014650

2026-03-31

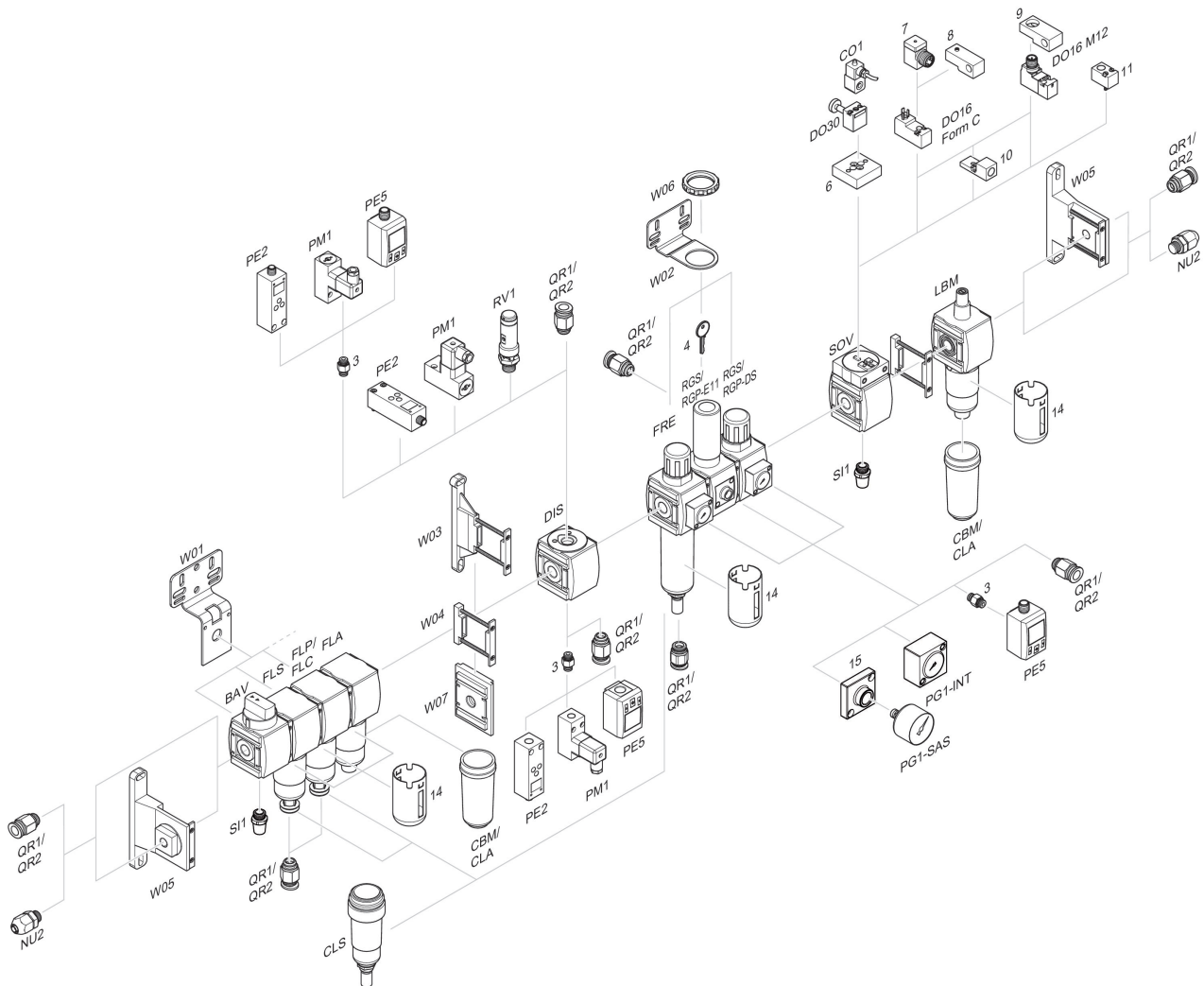
## Dimensions in mm



1) Fully automatic condensate drain

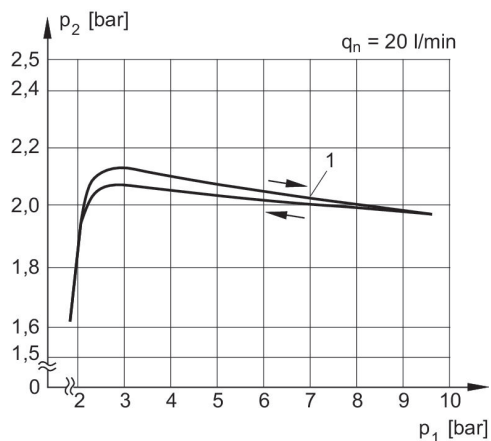
2) Reservoir: metal

## Accessories overview



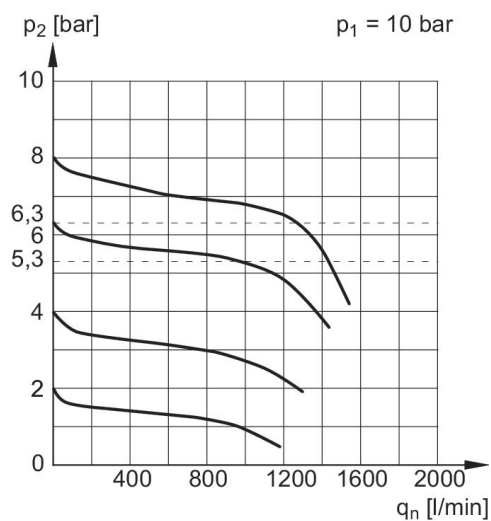
3 = Double nipple 4 = Key for E11 locking 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 14 = Protective guard 15 = Transition plate for assembling a pressure gauge with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