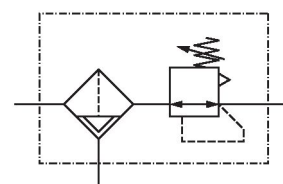


# Filter pressure regulator, Series AS2-FRE

## R412006236

### General series information Series AS2

- The AVENTICS Series AS2 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

Industry  
Industrial

Parts  
Filter pressure regulator

Reservoir  
reservoir, polycarbonate, with PA protective guard

Port  
G 1/4

Nominal flow Qn  
2100 l/min

Filter porosity  
5 µm

Condensate drain  
semi-automatic, open without pressure

Pressure gauge  
without pressure gauge

Working pressure min.  
1.5 bar

Working pressure max  
16 bar

Min. ambient temperature  
-10 °C

Max. ambient temperature  
50 °C

Regulation range min.  
0.5 bar

Regulation range max.  
16 bar

Lock type  
for padlocks

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 reservoir volume  
28 cm<sup>3</sup>

Max. achievable compressed air class acc. to  
ISO 8573-1:2010

6 : 7 : -

Medium  
Compressed air  
Neutral gases

Weight  
0.304 kg

## Material

Housing material  
Polyamide

Seal material  
Acrylonitrile butadiene rubber

Material front plate  
Acrylonitrile butadiene styrene

Material threaded bushing  
Die cast zinc

Material reservoir  
Polycarbonate

Material protective guard  
Polyamide

Material filter insert  
Polyethylene

Part No.  
R412006236

## Technical information

The pressure dew point must be at least 15 °C under 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".

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

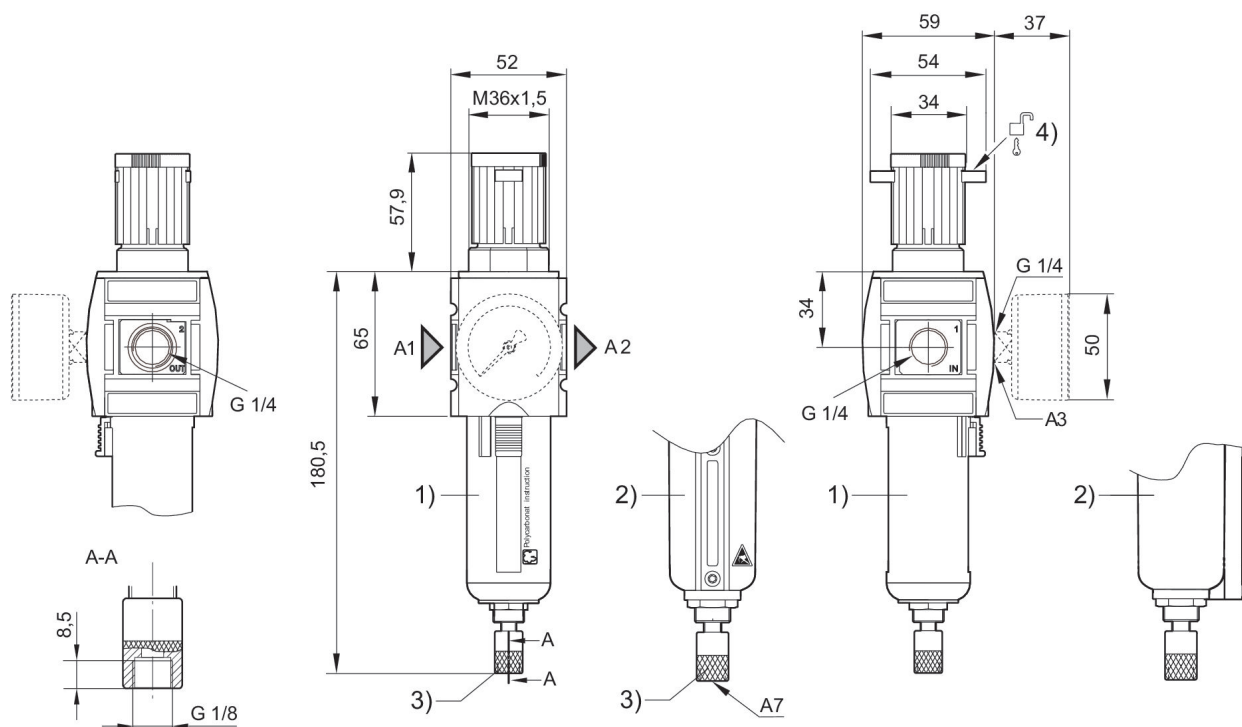
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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

Order pressure gauge separately

## Dimensions in mm

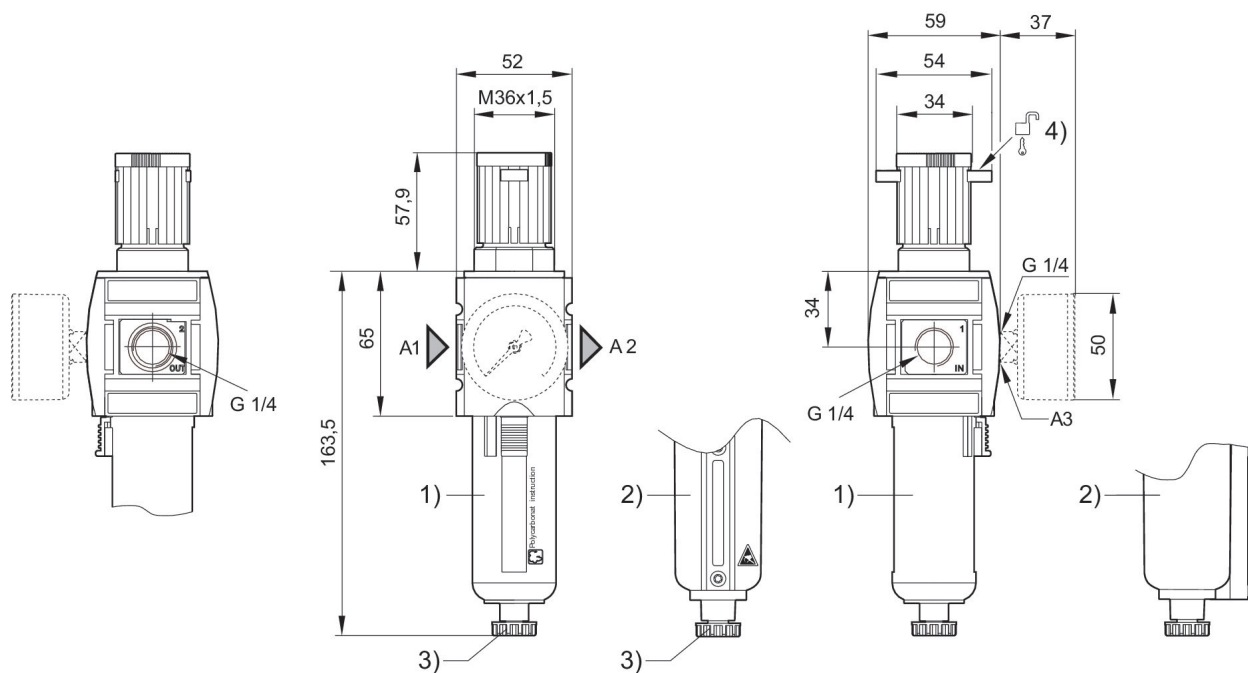
Fig. 2



- A1 = input A2 = output A3 = pressure gauge connection  
A7 = condensate drain  
1) Plastic reservoir and protective guard with window  
2) Metal reservoir  
3) Fully automatic condensate drain  
4) Mounting option for padlocks, max. shackle Ø 8

## Dimensions in mm

Fig. 1



A1 = input A2 = output A3 = pressure gauge connection

1) Plastic reservoir and protective guard with window

2) Metal reservoir

3) Semi-automatic condensate drain

4) Mounting option for padlocks, max. shackle Ø 8

## Dimensions in mm

The technical drawings illustrate the dimensions and features of the M36x1.5 hydraulic hose end fittings. The main drawing shows the front view with dimensions: 52 mm for the top flange width, 57.9 mm for the height from the centerline to the top edge, 65 mm for the total height, and 163.5 mm for the overall length. The central port is labeled G 3/8. The top flange has a diameter of M36x1.5. Two mounting points, A1 and A2, are indicated. A side view shows the fitting's profile with a warning label. A top view shows the fitting from above with dimensions: 59 mm for the total width, 54 mm for the inner width, 34 mm for the distance between mounting points, 37 mm for the distance from the centerline to the outer edge, and 50 mm for the distance from the centerline to the bottom edge. The top view also shows the G 1/4 port and the A3 mounting point.

4) Mounting option for padlocks, max. shackle Ø 8

### Dimensions in mm

[illegible]

A7 = condensate drain

1) Plastic reservoir and protective guard with window

2) Metal reservoir

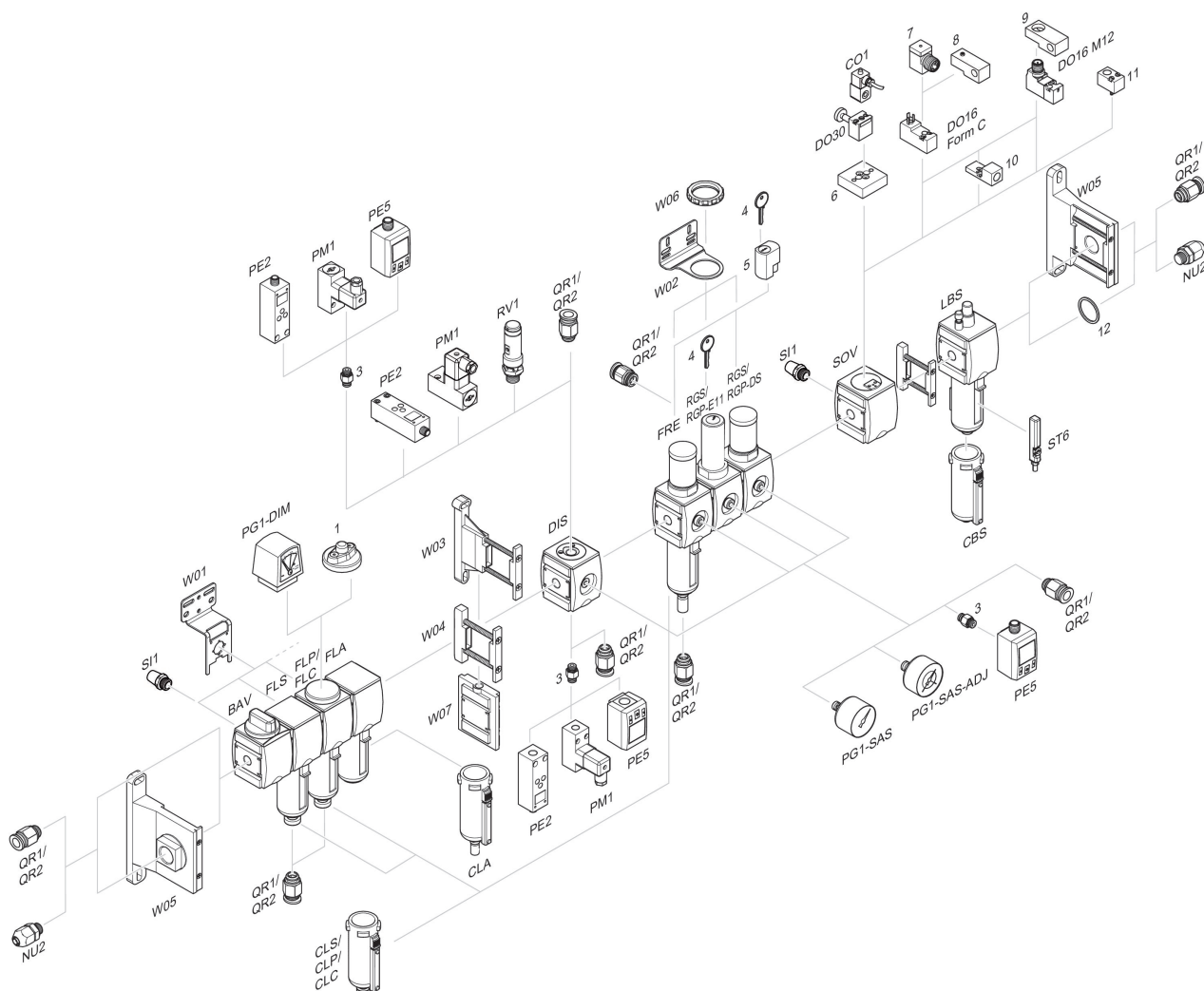
3) Fully automatic condensate drain

4) Mounting option for padlocks, max. shackle Ø 8

The graph shows the relationship between secondary pressure  $p_2$  and primary flow rate  $q_n$  for a pressure-reducing valve at a constant primary pressure  $p_1 = 10$  bar. The y-axis represents  $p_2$  in bar, ranging from 0 to 10. The x-axis represents  $q_n$  in l/min, ranging from 0 to 3000. Five curves are plotted for different set pressures: 7.5, 6.3, 5.3, 2.5, and 2.0 bar. Solid lines indicate the normal operating range, while dashed lines indicate the minimum flow rate region ( $Q_L$ ).

p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

## Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 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 12 = Sealing ring