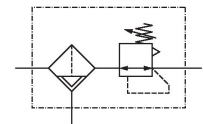


## AVENTICS Series AS5 Air Preparation Units

The AVENTICS Series AS5 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, metal, with inspection glass  |
| Port                     | G 1                                      |
| Nominal flow Qn          | 14000 l/min                              |
| Filter porosity          | 5 µm                                     |
| Condensate drain         | fully automatic, closed without pressure |
| Pressure gauge           | without pressure gauge                   |
| Min. working pressure    | 1.5 bar                                  |
| Max. working pressure    | 16 bar                                   |
| Min. ambient temperature | -10 °C                                   |
| Max. ambient temperature | 50 °C                                    |
| Min. regulation range    | 0.5 bar                                  |
| Max. regulation range    | 8 bar                                    |
| Lock type                | for padlocks                             |
| Type                     | 1-part                                   |
| Type                     | Can be assembled into blocks             |
| Pressure supply          | single                                   |
| Mounting orientation     | vertical                                 |

# Filter pressure regulator, Series AS5-FRE

AS5

R412009192

2024-03-20

---

|  |                                   |
|--|-----------------------------------|
| Regulator type   | Diaphragm-type pressure regulator |
| Regulator function   | with relieving air exhaust        |
| Max. Internal air consumption                                | 1.5 l/min                         |
| Filter element   | exchangeable                      |
| Filter reservoir volume                                      | 87 cm <sup>3</sup>                |
| Max. achievable compressed air class acc. to ISO 8573-1:2010 | 6 : 7 : -                         |
| Medium   | Compressed air<br>Neutral gases   |
| Weight   | 1.53 kg                           |

## Material

|                           |                                 |
|---------------------------|---------------------------------|
| Housing material          | Polyamide                       |
| Seal material             | Acrylonitrile butadiene rubber  |
| Material front plate      | Acrylonitrile butadiene styrene |
| Material threaded bushing | Die cast zinc                   |
| Material reservoir        | Die cast zinc                   |
| Material filter insert    | Polyethylene                    |
| Part No.                  | R412009192                      |

## 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".

Nominal flow  $Q_n$  with secondary pressure  $p_2 = 6$  bar at  $\Delta p = 1$  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

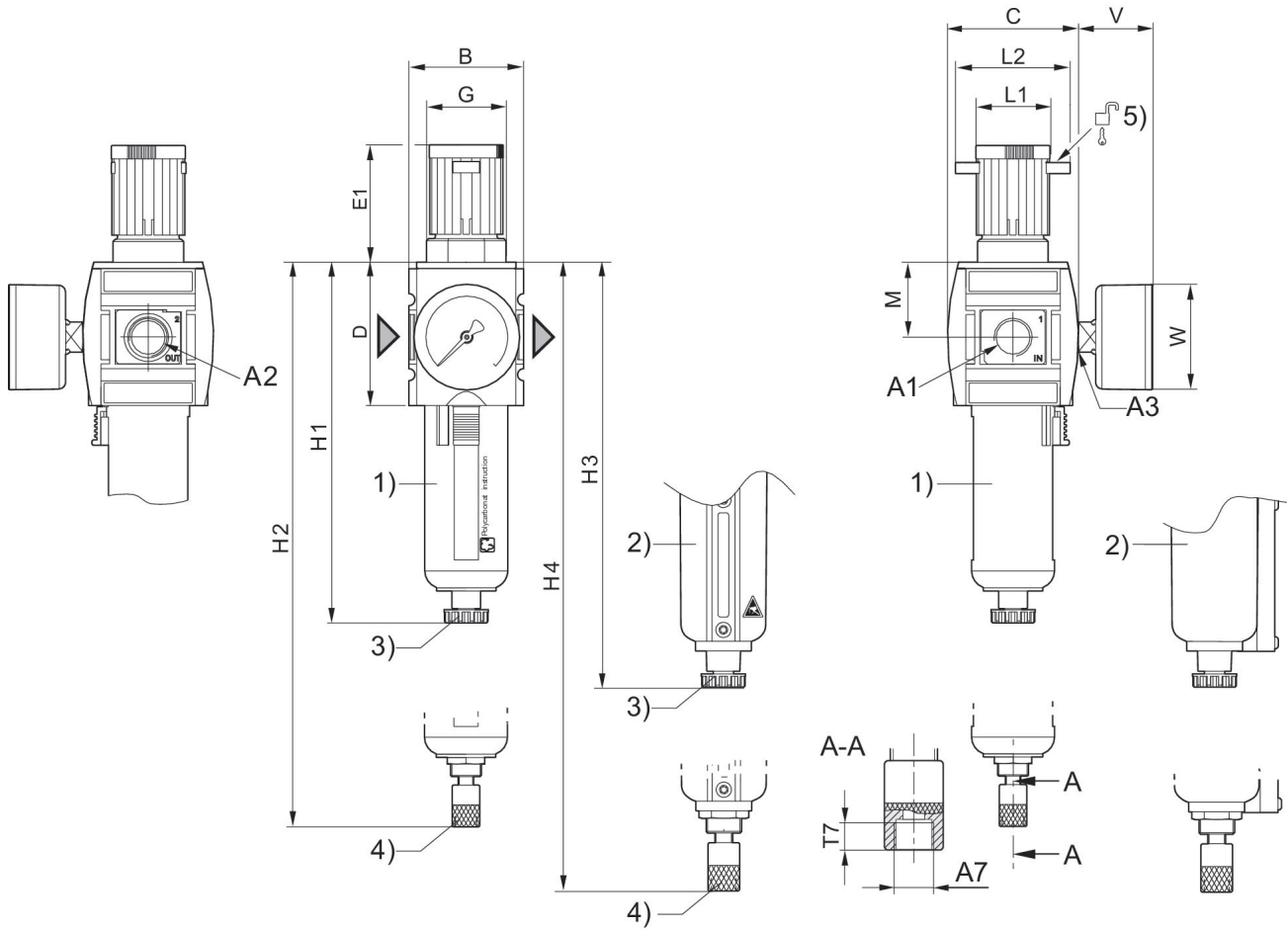
# Filter pressure regulator, Series AS5-FRE

AS5

R412009192

2024-03-20

## Dimensions



A1 = input A2 = output A3 = pressure gauge connection  
A7 = condensate drain

- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with level indicator
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) Mounting option for padlocks, max. shackle Ø 8

## Dimensions in mm

| Part No.   | A1    | A2    | A3    | A7    | B  | C   | D   | E1 | G       |
|------------|-------|-------|-------|-------|----|-----|-----|----|---------|
| R412009200 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009201 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009202 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009206 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009207 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009208 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009209 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009210 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009211 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009215 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009216 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |

# Filter pressure regulator, Series AS5-FRE

AS5

R412009192

2024-03-20

| Part No.   | A1    | A2    | A3    | A7    | B  | C   | D   | E1 | G       |
|------------|-------|-------|-------|-------|----|-----|-----|----|---------|
| R412009217 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009175 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009176 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009177 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009193 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009194 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009195 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009181 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009182 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009183 | G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009184 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009185 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009186 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009192 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009191 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009190 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009196 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009197 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |
| R412009198 | G 1   | G 1   | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 |

| Part No.   | H1  | H2  | H3    | H4    | L1 | L2 | M  | T7  | V  |
|------------|-----|-----|-------|-------|----|----|----|-----|----|
| R412009200 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009201 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009202 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009206 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009207 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009208 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009209 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009210 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009211 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009215 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009216 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009217 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009175 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009176 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009177 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009193 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009194 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009195 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009181 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009182 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009183 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009184 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009185 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009186 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009192 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009191 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |

# Filter pressure regulator, Series AS5-FRE

AS5

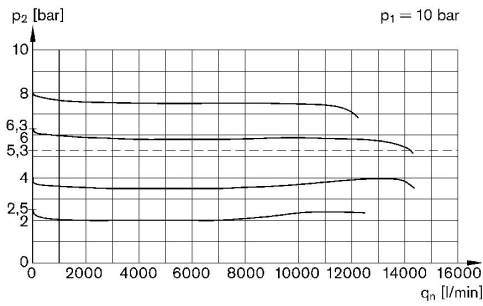
R412009192

2024-03-20

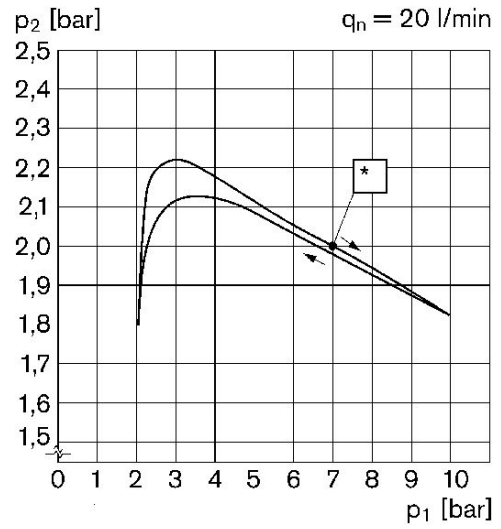
| Part No.   | H1  | H2  | H3    | H4    | L1 | L2 | M  | T7  | V  |
|------------|-----|-----|-------|-------|----|----|----|-----|----|
| R412009190 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009196 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009197 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |
| R412009198 | 250 | 206 | 193.5 | 210.5 | 41 | 60 | 58 | 8.5 | 38 |

| Part No.   | W  |
|------------|----|
| R412009200 | 63 |
| R412009201 | 63 |
| R412009202 | 63 |
| R412009206 | 63 |
| R412009207 | 63 |
| R412009208 | 63 |
| R412009209 | 63 |
| R412009210 | 63 |
| R412009211 | 63 |
| R412009215 | 63 |
| R412009216 | 63 |
| R412009217 | 63 |
| R412009175 | 63 |
| R412009176 | 63 |
| R412009177 | 63 |
| R412009193 | 63 |
| R412009194 | 63 |
| R412009195 | 63 |
| R412009181 | 63 |
| R412009182 | 63 |
| R412009183 | 63 |
| R412009184 | 63 |
| R412009185 | 63 |
| R412009186 | 63 |
| R412009192 | 63 |
| R412009191 | 63 |
| R412009190 | 63 |
| R412009196 | 63 |
| R412009197 | 63 |
| R412009198 | 63 |

## Flow rate characteristic (setting range p2: 0.5 - 8 bar)      Pressure characteristics curve



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



p1 = Working pressure  
 p2 = Secondary pressure  
 qn = Nominal flow  
 \* starting point

