

## Preparation of compressed air → Maintenance units and components

**Filter pressure regulator, Series AS2-FRE**

▶ G 1/4 - G 3/8 ▶ filter porosity: 5 µm ▶ lockable ▶ with pressure gauge ▶ ATEX certified



00119372

|                               |                                      |
|-------------------------------|--------------------------------------|
| ATEX                          | II 2G2D T4 X                         |
| Maintenance Unit              | 1-in-1, Can be assembled into blocks |
| Parts                         | Filter, Pressure controller          |
| Regulator type                | Diaphragm-type pressure regulator    |
| Regulator function            | with relieving air exhaust           |
| Lock type                     | with padlock                         |
| Pressure supply               | single                               |
| Installation location         | vertical                             |
| Ambient temperature min./max. | -10 °C / +50 °C                      |
| Medium temperature min./max.  | -10 °C / +50 °C                      |
| Working pressure min./max.    | See table below                      |
| Adjustment range min./max.    | See table below                      |
| Medium                        | Compressed air                       |
| Filter element                | exchangeable                         |
| Filter reservoir volume       | 28 cm <sup>3</sup>                   |
| Condensate drain              | See table below                      |
| <b>Materials:</b>             |                                      |
| Housing                       | Polyamide                            |
| Threaded bushing              | Die cast zinc                        |
| Cover                         | Acrylonitrile butadiene styrene      |
| Seal                          | Acrylonitrile Butadiene Rubber       |
| Filter insert                 | Polyethylene                         |

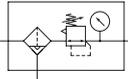
**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- max. particle count as per ISO 8573-4 at the outlet: 10 mg/m<sup>3</sup>

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|  | Port            | Qn      | Working pressure<br>min./max. | Adjustment<br>range<br>min./max. | Condensate drain                         | Note   | Part No.          |
|--|-----------------|---------|-------------------------------|----------------------------------|--|--------|-------------------|
|  |                 | [l/min] | [bar]                         | [bar]                            |  |        |                   |
|  | G 1/4           | 2100    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 1); 3) | <b>R412006200</b> |
|  | G 1/4           | 2100    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 1); 3) | <b>R412006201</b> |
|  | G 1/4           | 2100    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 1); 3) | <b>R412006202</b> |
|  | G 1/4           | 2100    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 2)     | <b>R412006206</b> |
|  | G 1/4           | 2100    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 2)     | <b>R412006207</b> |
|  | G 1/4           | 2100    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 2)     | <b>R412006208</b> |
|  | G 1/4           | 2100    | 1.5 / 16                      | 0.5 / 10                         | semi-automatic, open without pressure    | 1); 3) | R412006196        |
|  | G 1/4           | 2100    | 1.5 / 16                      | 0.5 / 10                         | fully automatic, open without pressure   | 1); 3) | R412006197        |
|  | G 1/4           | 2100    | 0 / 16                        | 0.5 / 10                         | fully automatic, closed without pressure | 1); 3) | R412006198        |
|  | G 3/8           | 2600    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 1); 3) | <b>R412006209</b> |
|  | G 3/8           | 2600    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 1); 3) | <b>R412006210</b> |
|  | G 3/8           | 2600    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 1); 3) | <b>R412006211</b> |
|  | G 3/8           | 2600    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 2)     | <b>R412006215</b> |
|  | G 3/8           | 2600    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 2)     | <b>R412006216</b> |
|  | G 3/8           | 2600    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 2)     | <b>R412006217</b> |
|  | G 3/8           | 2600    | 1.5 / 16                      | 0.5 / 10                         | semi-automatic, open without pressure    | 2)     | R412006212        |
|  | G 3/8           | 2600    | 1.5 / 16                      | 0.5 / 10                         | fully automatic, open without pressure   | 2)     | R412006213        |
|  | G 3/8           | 2600    | 0 / 16                        | 0.5 / 10                         | fully automatic, closed without pressure | 2)     | R412006214        |
|  | <b>Part No.</b> |         |                               |                                  |  |        |                   |
|  |                 |         |                               |                                  |  |        | <b>[kg]</b>       |
| <b>R412006200</b>  |                 |         |                               |                                  |  |        | 0.394             |
| <b>R412006201</b>  |                 |         |                               |                                  |  |        | 0.437             |
| <b>R412006202</b>  |                 |         |                               |                                  |  |        | 0.437             |
| <b>R412006206</b>  |                 |         |                               |                                  |  |        | 0.609             |
| <b>R412006207</b>  |                 |         |                               |                                  |  |        | 0.661             |
| <b>R412006208</b>  |                 |         |                               |                                  |  |        | 0.661             |
| R412006196   |                 |         |                               |                                  |  |        | 0.394             |
| R412006197   |                 |         |                               |                                  |  |        | 0.437             |
| R412006198   |                 |         |                               |                                  |  |        | 0.437             |
| <b>R412006209</b>  |                 |         |                               |                                  |  |        | 0.437             |
| <b>R412006210</b>  |                 |         |                               |                                  |  |        | 0.437             |
| <b>R412006211</b>  |                 |         |                               |                                  |  |        | 0.437             |

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc

3) Protective guard: Polyamide

Nominal flow Qn at 6.3 bar and Δp = 1 bar.

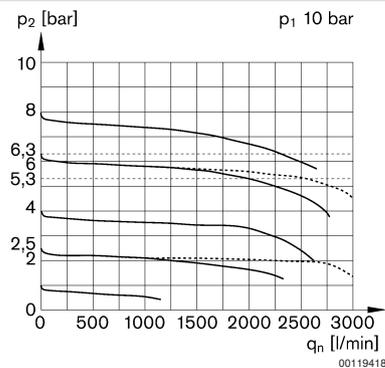
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| Part No.          | Weight [kg] |
|-------------------|-------------|
| <b>R412006215</b> | 0.596       |
| <b>R412006216</b> | 0.648       |
| <b>R412006217</b> | 0.648       |
| R412006212        | 0.596       |
| R412006213        | 0.648       |
| R412006214        | 0.648       |

- 1) Reservoir: Polycarbonate
  - 2) Reservoir: Die cast zinc
  - 3) Protective guard: Polyamide
- Nominal flow  $Q_n$  at 6.3 bar and  $\Delta p = 1$  bar.

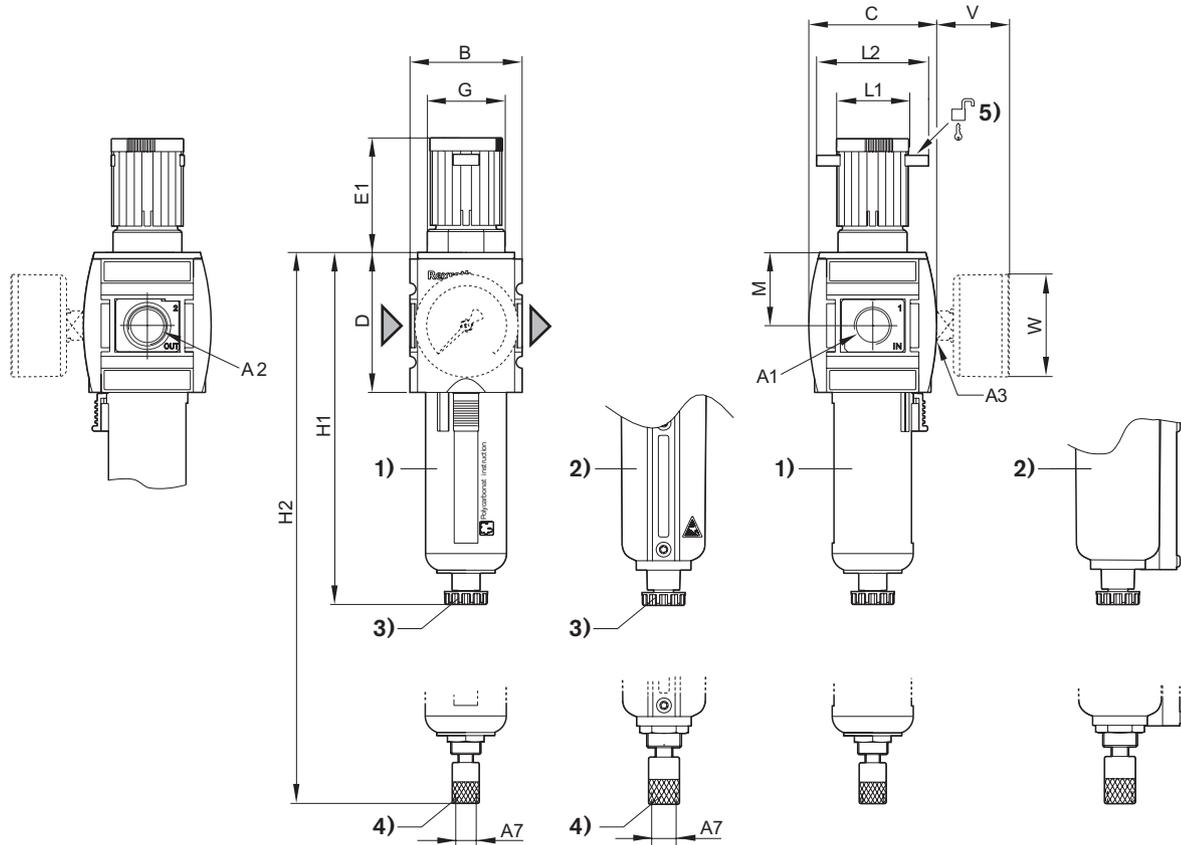
**Flow rate characteristic**

$p_1$  = working pressure;  $p_2$  = secondary pressure;  $q_n$  = nominal flow

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**Dimensions**

00133984

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

| A1    | A2    | A3    | A7    | B  | C  | D  | E1   | G       | H1    | H2    | L1 | L2 |
|-------|-------|-------|-------|----|----|----|------|---------|-------|-------|----|----|
| G 1/4 | G 1/4 | G 1/4 | G 1/8 | 52 | 59 | 65 | 57.9 | M36x1,5 | 163.5 | --    | 34 | 54 |
| G 1/4 | G 1/4 | G 1/4 | G 1/8 | 52 | 59 | 65 | 57.9 | M36x1,5 | --    | 180.5 | 34 | 54 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 52 | 59 | 65 | 57.9 | M36x1,5 | 163.5 | --    | 34 | 54 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 52 | 59 | 65 | 57.9 | M36x1,5 | --    | 180.5 | 34 | 54 |

| A1    | M  | V  | W  |
|-------|----|----|----|
| G 1/4 | 34 | 37 | 50 |
| G 1/4 | 34 | 37 | 50 |
| G 3/8 | 34 | 37 | 50 |
| G 3/8 | 34 | 37 | 50 |