

## Preparation of compressed air → Maintenance units and components

**Filter pressure regulator, Series AS3-FRE**

▶ G 3/8 - G 1/2 ▶ 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       | 49 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                         |

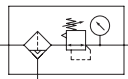
**Technical Remarks**

- 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 3/8           | 4300    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 1); 4) | <b>R412007200</b> |
|  | G 3/8           | 4300    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 1); 4) | <b>R412007201</b> |
|  | G 3/8           | 4300    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 1); 4) | <b>R412007202</b> |
|  | G 3/8           | 4300    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 2)     | <b>R412007206</b> |
|  | G 3/8           | 4300    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 2)     | <b>R412007207</b> |
|  | G 3/8           | 4300    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 2)     | R412007208        |
|  | G 1/2           | 4300    | 1.5 / 16                      | 0.5 / 16                         | fully automatic, open without pressure   | 3); 4) | <b>R412007237</b> |
|  | G 1/2           | 5100    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 1); 4) | <b>R412007209</b> |
|  | G 1/2           | 5100    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 1); 4) | <b>R412007210</b> |
|  | G 1/2           | 5100    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 1); 4) | <b>R412007211</b> |
|  | G 1/2           | 5100    | 1.5 / 16                      | 0.5 / 8                          | semi-automatic, open without pressure    | 2)     | <b>R412007215</b> |
|  | G 1/2           | 5100    | 1.5 / 16                      | 0.5 / 8                          | fully automatic, open without pressure   | 2)     | <b>R412007216</b> |
|  | G 1/2           | 5100    | 0 / 16                        | 0.5 / 8                          | fully automatic, closed without pressure | 2)     | <b>R412007217</b> |
|  | <b>Part No.</b> |         |                               |                                  |  |        |                   |
|  |                 |         |                               |                                  |  |        | <b>[kg]</b>       |
| <b>R412007200</b>  |                 |         |                               |                                  |  |        | 0.658             |
| <b>R412007201</b>  |                 |         |                               |                                  |  |        | 0.707             |
| <b>R412007202</b>  |                 |         |                               |                                  |  |        | 0.707             |
| <b>R412007206</b>  |                 |         |                               |                                  |  |        | 0.89              |
| <b>R412007207</b>  |                 |         |                               |                                  |  |        | 0.943             |
| R412007208   |                 |         |                               |                                  |  |        | 0.943             |
| <b>R412007237</b>  |                 |         |                               |                                  |  |        | 0.658             |
| <b>R412007209</b>  |                 |         |                               |                                  |  |        | 0.658             |
| <b>R412007210</b>  |                 |         |                               |                                  |  |        | 0.707             |
| <b>R412007211</b>  |                 |         |                               |                                  |  |        | 0.707             |
| <b>R412007215</b>  |                 |         |                               |                                  |  |        | 0.87              |
| <b>R412007216</b>  |                 |         |                               |                                  |  |        | 0.922             |
| <b>R412007217</b>  |                 |         |                               |                                  |  |        | 0.922             |

1) Reservoir: Polycarbonate

2) Reservoir: Die cast zinc with window

3) Reservoir: Polycarbonate with window

4) Protective guard: Polyamide

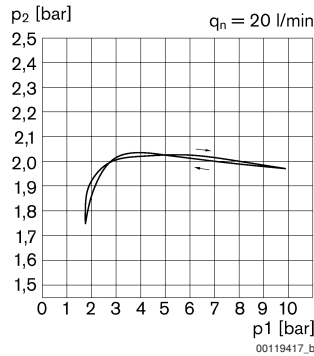
Nominal flow Qn at 6.3 bar and Δp = 1 bar.

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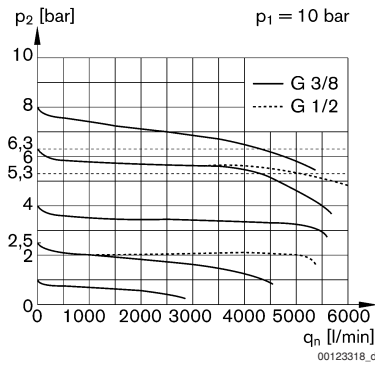
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**Pressure characteristics curve**



p1 = working pressure; p2 = secondary pressure; qn = nominal flow

**Flow rate characteristic (p2: 0,5 - 8 bar)**



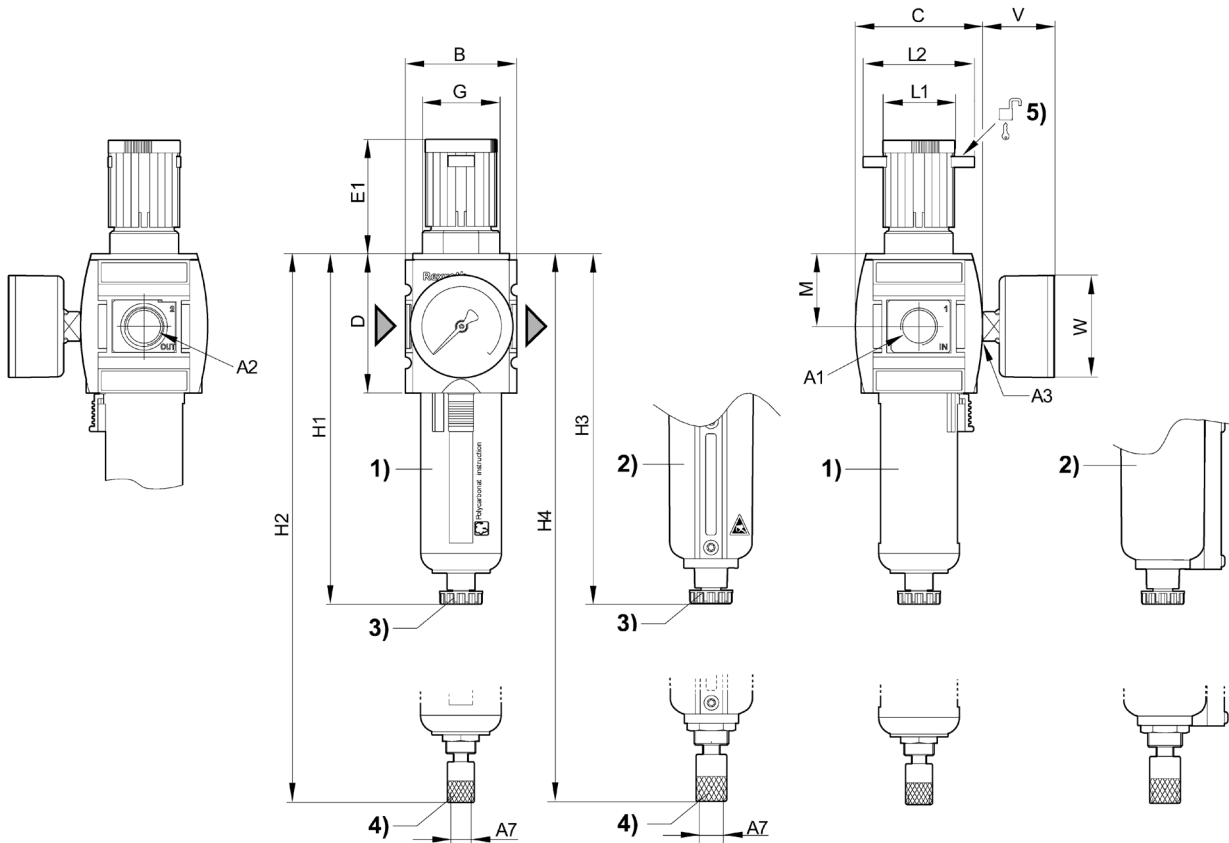
p1 = working pressure; p2 = secondary pressure; qn = nominal flow

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## Dimensions



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- 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  | H3    | H4    |
|-------|-------|-------|-------|----|----|----|------|---------|-------|-----|-------|-------|
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | --  | --    | --    |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | --    | 206 | --    | --    |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | --    | --  | 193.5 | --    |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | --    | --  | --    | 210.5 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | --    | 206 | --    | --    |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | --  | --    | --    |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | --    | --  | 193.5 | --    |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | --    | --  | --    | 210.5 |

| A1    | L1 | L2 | M    | V  | W  |  |  |  |  |  |  |  |
|-------|----|----|------|----|----|--|--|--|--|--|--|--|
| G 3/8 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |
| G 3/8 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |
| G 3/8 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |
| G 3/8 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |
| G 1/2 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |
| G 1/2 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |
| G 1/2 | 41 | 60 | 42.5 | 33 | 50 |  |  |  |  |  |  |  |

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| <b>A1</b> | <b>L1</b> | <b>L2</b> | <b>M</b> | <b>V</b> | <b>W</b> |  |  |  |  |  |  |  |  |
|-----------|-----------|-----------|----------|----------|----------|--|--|--|--|--|--|--|--|
| G 1/2     | 41        | 60        | 42.5     | 33       | 50       |  |  |  |  |  |  |  |  |

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