AVENTICS

Preparation of compressed air ► Maintenance units and components

# Series AS5

Brochure

## Maintenance units

Maintenance unit, 2-part, Series AS5-ACD
► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

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Maintenance unit, 3-part, Series AS5-ACT
► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX

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## Pressure regulators, air supply on the left

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14

Pressure regulator, Series AS5-RGS-...-E11
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17

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19

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22

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27

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30

## Filter, air supply on the left

Filter, Series AS5-FLS
► G 3/4 - G 1 ► filter porosity: 5 µm ► suitable for ATEX

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## Series AS5



### Lubricators, air supply on the left



### Filling units, air supply on the left

Filling unit, pneumatically operated, Series AS5-SSU
► G 3/4 - G 1 ► pipe connection ► suitable for ATEX

67

Filling unit, pneumatically operated, Series AS5-SSU
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71

**Filling valves, air supply on the left**

Filling valve, pneumatically operated, Series AS5-SSV
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75

Filling valve, pneumatically operated, Series AS5-SSV
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77

Filling valve, pneumatically operated, Series AS5-SSV
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► G 3/4 - G 1

79

**Shut-off valves, air supply on the left**

2/2-directional valve, electrically operated, Series AS5-SOV
► G 1 ► pipe connection ► Electr. connection: Plug, ISO 15217, form C

82

3/2-directional valve, electrically operated, Series AS5-SOV
► G 3/4 - G 1 ► pipe connection ► ATEX optional

84

3/2-directional valve, electrically operated, Series AS5-SOV-...-POS
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90

3/2-directional valve, pneumatically operated, Series AS5-SOV
► G 3/4 - G 1 ► pipe connection ► suitable for ATEX

92

3/2-shut-off valve, mechanically operated, Series AS5-BAV
► G 3/4 - G 1 ► suitable for ATEX

95

# Series AS5

## Distributors, air supply on the left

Distributor, Series AS5-DIS
► G 3/4 - G 1 ► Distributor 2x ► Distributor ► suitable for ATEX

97

Distributor, Series AS5-DIN
► G 3/4 - G 1 ► Non-return valve ► suitable for ATEX

99

## Accessories

Reservoir, Series AS5-CLS/ -CLP/ -CLC
► for filters, pre-filters and microfilters ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX

101

Reservoir, Series AS5-CLA
► for active carbon filter ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX

103

Reservoir, Series AS5-CBS
► for lubricator ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX

104

Mounting plate, Series AS5-MBR-...-W01

106

Mounting clip, Series AS5-MBR-...-W03
► suitable for ATEX

107

Block assembly kit, Series AS5-MBR-...-W04
► suitable for ATEX

108

Block assembly kit, Series AS5-MBR-...-W05
► G 3/4 - G 1

109

Panel nut
► for AS5, NL2, NL4 ► suitable for ATEX

109

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pressure gauge, Series PG1-SAS
► Front port ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi

110

Pressure gauge, Series PG1-SAS-ADJ
► Front port ► with adjustable work area display ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX

112

Pressure gauge, Series PG1-DIM
► for differential pressure measurement for prefilters and microfilters ► flange version ► Background color: White ► Scale color: Black ► Viewing window: Polystyrene ► Units: bar ► suitable for ATEX

113

contamination display
► for prefilters and microfilters

114

Transition plate, Series AS1, AS2, AS3, AS5
► with CNOMO porting configuration

114

Adapter, Series CN1
► Form C, ISO 15217/M 12

115

Connecting cable, Series CN2
► Socket, M12x1, 5-pin, A-coded, angled ► without wire end ferrule, tin-plated, 4-pin
► for CANopen, DeviceNet

116

plugs

118

Sealing ring
► Acrylonitrile butadiene styrene

118

mortise lock
► for Series AS2, AS3, AS5

119

| | | |
|---|---|---|
|  | Key for E11 locking | 120 |
|  | Mounting aid<br>► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical push-in fitting, form C. | 120 |
|  | Mounting aid<br>► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical connection M12x1. | 121 |
|  | 3/2-directional valve, Series DO30<br>► Qn = 65 - 90 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent ► suitable for ATEX | 122 |
|  | Coil, Series CO1<br>► Cable with connector ► Coil width 30 mm ► ATEX certified | 123 |
|  | 3/2-directional valve, Series DO30<br>► Qn = 65 - 90 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent ► suitable for ATEX | 125 |
|  | Adapter for external pilot air<br>► !translate! | 126 |

# Maintenance unit, 2-part, Series AS5-ACD

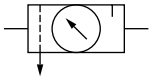
**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX**

00119785

| | |
|---|---|
| Version | 2-in-1, Can be assembled into blocks |
| Parts | Filter pressure regulator, Lubricator |
| Nominal flow Qn | 12300 l/min |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.5 bar / 8 bar |
| Pressure supply | single |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| Condensate drain | See table below |
| Lubricator reservoir volume | 181 cm³ |
| Type of filling | Manual oil filling<br>Semi-automatic oil filling during operation |
| Oil type | HLP 68 (DIN 51 524 - ISO VG 68)<br>HLP 32 (DIN 51 524 - ISO VG 32) |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

**Technical Remarks**

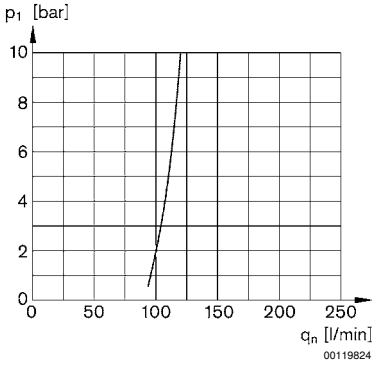
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Oil dosing at 1000 l/min [drops/min]: 1-2

| | Port | Working pressure min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|
| | | [bar] | | [kg] | |
|  | G 3/4 | 2 / 16 | semi-automatic, open without pressure | 1.83 | **R412009298** |
| | G 1 | 2 / 16 | semi-automatic, open without pressure | 1.83 | **R412009307** |
| | G 3/4 | 2 / 16 | fully automatic, open without pressure | 1.88 | **R412009299** |
| | G 3/4 | 0 / 16 | fully automatic, closed without pressure | 1.88 | R412009300 |
| | G 1 | 2 / 16 | fully automatic, open without pressure | 1.88 | **R412009308** |
| | G 1 | 0 / 16 | fully automatic, closed without pressure | 1.88 | R412009309 |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | |

# Maintenance unit, 2-part, Series AS5-ACD

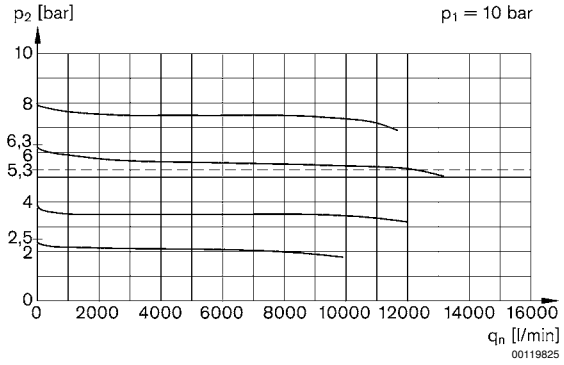
**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX**

## Lubricator activation margin




p1 = working pressure
qn = nominal flow

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

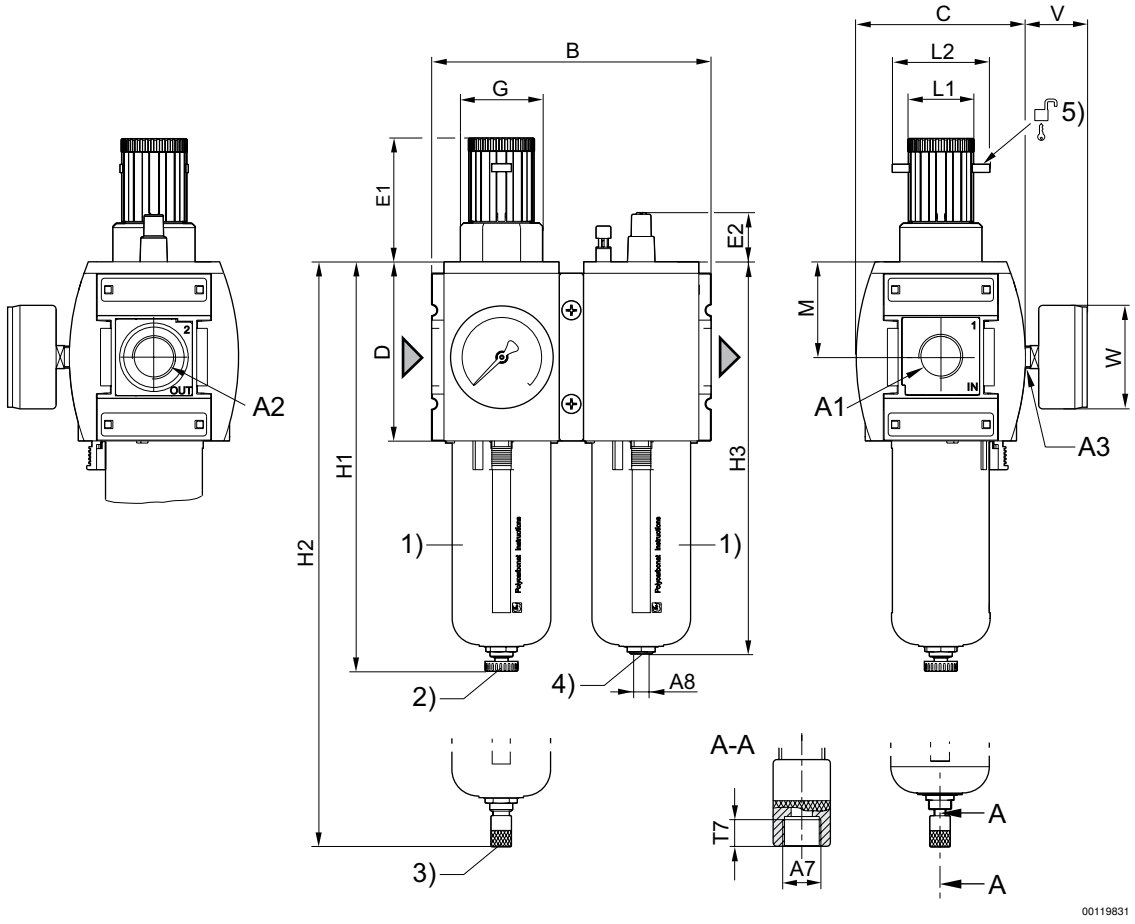



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Maintenance unit, 2-part, Series AS5-ACD

**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) Port for semi-automatic oil filling
5) Mounting option for padlocks; max. shackle Ø 8

| A1 | A2 | A3 | A7 | A8 | B | C | D | E1 | E2 | G | H1 | H2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | G 1/8 | G 1/8 | 170 | 103 | 109 | 75 | 30.5 | M50x1,5 | 250 | 266 |
| G 1 | G 1 | G 1/4 | G 1/8 | G 1/8 | 170 | 103 | 109 | 75 | 30.5 | M50x1,5 | 250 | 266 |

| A1 | H3 | L1 | L2 | M | T7 | V | W | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | 239 | 41 | 60 | 58 | 8.5 | 38 | 63 | | | | | | |
| G 1 | 239 | 41 | 60 | 58 | 8.5 | 38 | 63 | | | | | | |

# Maintenance unit, 3-part, Series AS5-ACT

**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX**

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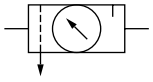
| | |
|---|---|
| Version | 3-part, Can be assembled into blocks |
| Parts | Filter, Pressure regulator, Lubricator |
| Nominal flow Qn | 12300 l/min |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.5 bar / 8 bar |
| Pressure supply | single |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| Condensate drain | See table below |
| Lubricator reservoir volume | 181 cm³ |
| Type of filling | Manual oil filling<br>Semi-automatic oil filling during operation |
| Oil type | HLP 68 (DIN 51 524 - ISO VG 68)<br>HLP 32 (DIN 51 524 - ISO VG 32) |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| 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.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Oil dosing at 1000 l/min [drops/min]: 1-2

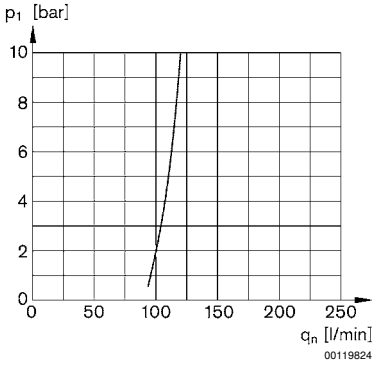
| | Port | Working pressure min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|
| | | [bar] | | [kg] | |
|  | G 3/4 | 0 / 16 | fully automatic, closed without pressure | 2.68 | R412009320 |
| | G 1 | 0 / 16 | fully automatic, closed without pressure | 2.68 | R412009329 |
| | G 3/4 | 2 / 16 | semi-automatic, open without pressure | 2.63 | R412009318 |
| | G 1 | 2 / 16 | semi-automatic, open without pressure | 2.63 | **R412009327** |
| | G 3/4 | 2 / 16 | fully automatic, open without pressure | 2.68 | R412009319 |
| | G 1 | 2 / 16 | fully automatic, open without pressure | 2.68 | R412009328 |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | |

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Maintenance unit, 3-part, Series AS5-ACT

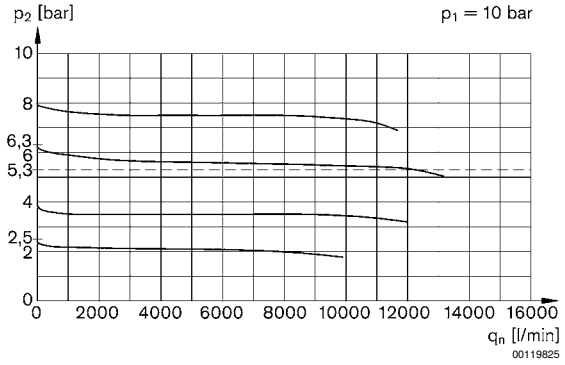
**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX**

## Lubricator activation margin




p1 = working pressure
qn = nominal flow

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

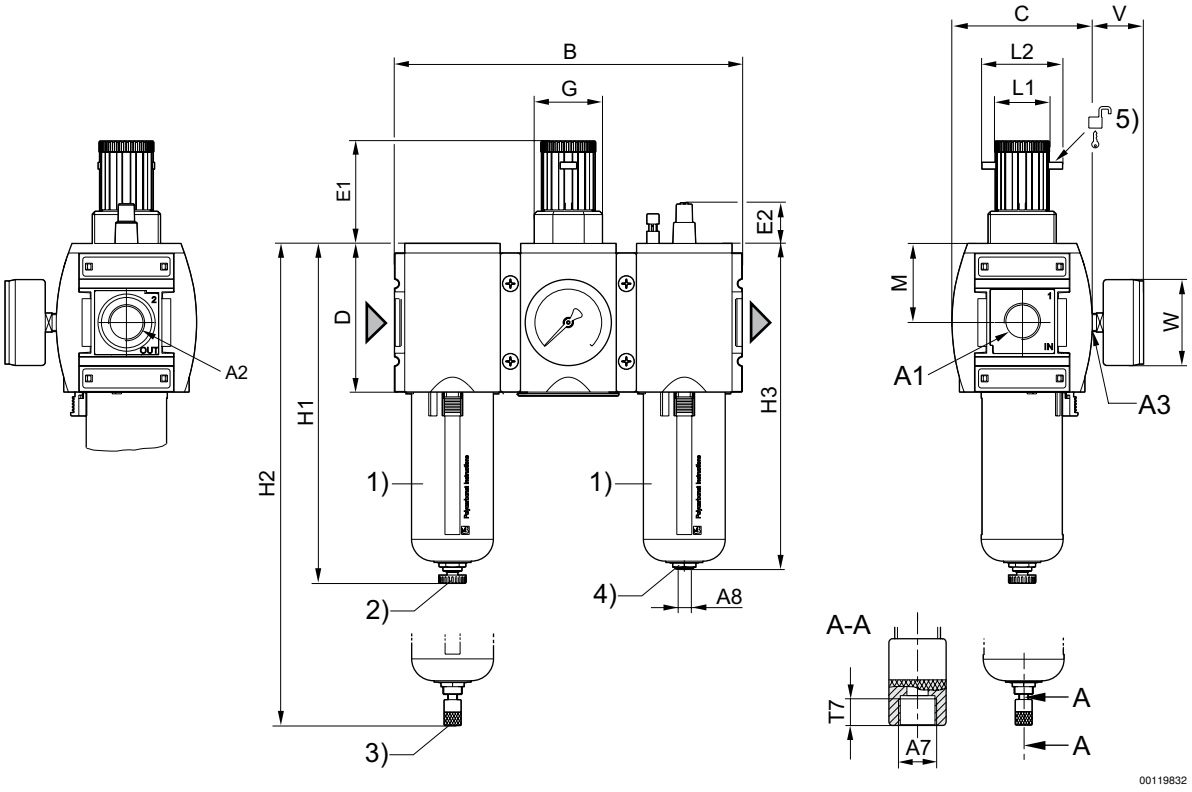



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Maintenance unit, 3-part, Series AS5-ACT

**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► with pressure gauge ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) Port for semi-automatic oil filling
5) Mounting option for padlocks; max. shackle Ø 8

| A1 | A2 | A3 | A7 | A8 | B | C | D | E1 | E2 | G | H1 | H2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | G 1/8 | G 1/8 | 255 | 103 | 109 | 75 | 30.5 | M50x1,5 | 250 | 266 |
| G 1 | G 1 | G 1/4 | G 1/8 | G 1/8 | 255 | 103 | 109 | 75 | 30.5 | M50x1,5 | 250 | 266 |

| A1 | H3 | L1 | L2 | M | T7 | V | W | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | 239 | 41 | 60 | 58 | 8.5 | 38 | 63 | | | | | | |
| G 1 | 239 | 41 | 60 | 58 | 8.5 | 38 | 63 | | | | | | |

# Pressure regulator, Series AS5-RGS

**► G 3/4 - G 1 ► Qn= 14500 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX**

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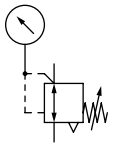
| | |
|---|---|
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator, Can be assembled into blocks |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | See table below |
| Pressure supply | single |
| Max. Internal air consumption | 1.5 l/min |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
- Suitable for use in Ex zones 1, 2, 21, 22

| | | Port | Qn | Working pressure min./max. | Adjustment range min. - max.. | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | | [l/min] | [bar] | [bar] | [kg] | | |
|  |  | G 3/4 | 14500 | 0.1 / 16 | 0.1 - 1 | 0.997 | 1) | R412009101 |
| | | G 3/4 | | 0.1 / 16 | 0.1 - 2 | | | R412009103 |
| | | G 3/4 | | 0.2 / 16 | 0.2 - 4 | | | R412009105 |
| | | G 3/4 | | 0.5 / 16 | 0.5 - 8 | | | **R412009107** |
| | | G 3/4 | | 0.5 / 16 | 0.5 - 10 | | | **R412009109** |
| | | G 3/4 | | 0.5 / 16 | 0.5 - 16 | | | **R412009111** |
| | | G 1 | | 0.1 / 16 | 0.1 - 1 | | | R412009113 |
| | | G 1 | | 0.1 / 16 | 0.1 - 2 | | | R412009115 |
| | | G 1 | | 0.2 / 16 | 0.2 - 4 | | | R412009117 |
| | | G 1 | | 0.5 / 16 | 0.5 - 8 | | | **R412009119** |
| | | G 1 | | 0.5 / 16 | 0.5 - 10 | | | **R412009121** |
| | | G 1 | | 0.5 / 16 | 0.5 - 16 | | | **R412009123** |

1) Pressure gauge enclosed separately
2) Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

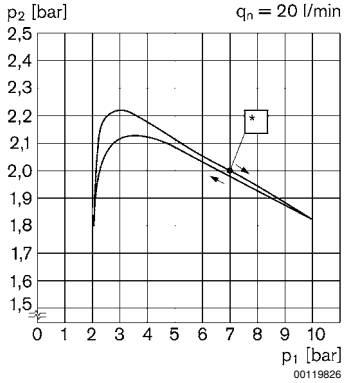
# Pressure regulator, Series AS5-RGS

**► G 3/4 - G 1 ► Qn= 14500 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX**

| | | Port | Qn | Working pressure min./max. | Adjustment range min. - max.. | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | | [l/min] | [bar] | [bar] | [kg] | | |
|  | - | G 3/4 | 14500 | 0.1 / 16 | 0.1 - 1 | 0.905 | 2) | R412009100 |
| | | G 3/4 | | 0.1 / 16 | 0.1 - 2 | | | R412009102 |
| | | G 3/4 | | 0.2 / 16 | 0.2 - 4 | | | R412009104 |
| | | G 3/4 | | 0.5 / 16 | 0.5 - 8 | | | R412009106 |
| | | G 3/4 | | 0.5 / 16 | 0.5 - 10 | | | **R412009108** |
| | | G 3/4 | | 0.5 / 16 | 0.5 - 16 | | | R412009110 |
| | | G 1 | | 0.1 / 16 | 0.1 - 1 | | | R412009112 |
| | | G 1 | | 0.1 / 16 | 0.1 - 2 | | | R412009114 |
| | | G 1 | | 0.2 / 16 | 0.2 - 4 | | | R412009116 |
| | | G 1 | | 0.5 / 16 | 0.5 - 8 | | | **R412009118** |
| | | G 1 | | 0.5 / 16 | 0.5 - 10 | | | **R412009120** |
| | | G 1 | | 0.5 / 16 | 0.5 - 16 | | | R412009122 |

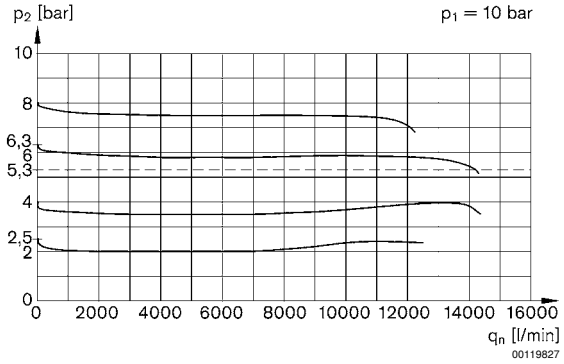
1) Pressure gauge enclosed separately
2) Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

## Pressure characteristics curve




p1 = working pressure
p2 = secondary pressure
qn = nominal flow
* starting point

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



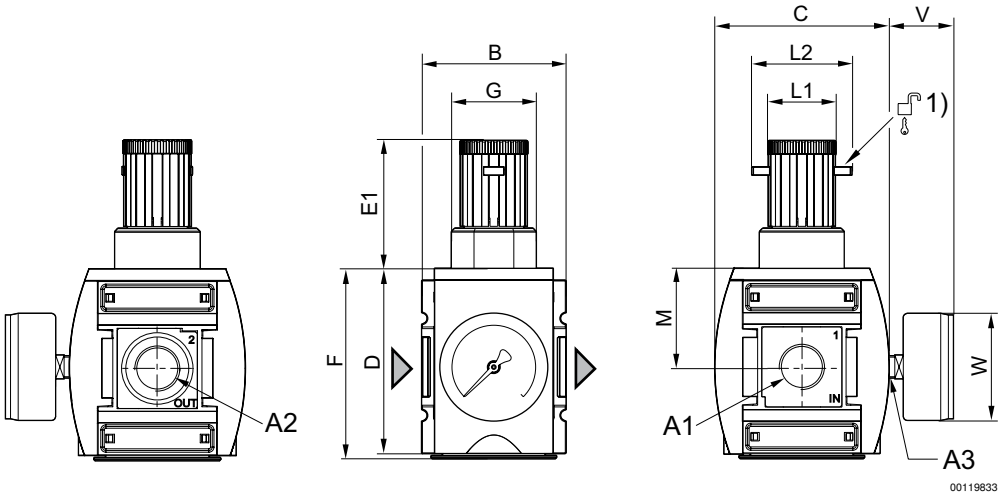

p1 = working pressure
p2 = secondary pressure
qn = nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Pressure regulator, Series AS5-RGS

**► G 3/4 - G 1 ► Qn= 14500 l/min ► Activation: mechanical ► lockable ► for padlocks ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
1) Mounting option for padlocks; max. shackle Ø 8

| A1 | A2 | A3 | B | C | D | E1 | F | G | L1 | L2 | M | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | 85 | 103 | 109 | 75 | 112 | M50x1,5 | 41 | 60 | 58 | 38 |
| G 1 | G 1 | G 1/4 | 85 | 103 | 109 | 75 | 112 | M50x1,5 | 41 | 60 | 58 | 38 |

| A1 | W | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | 63 | | | | | | | | | | | |
| G 1 | 63 | | | | | | | | | | | |

# Pressure regulator, Series AS5-RGS-...-E11

**► G 1 ► Qn= 14500 l/min ► Activation: mechanical ► lockable ► with E11 locking**

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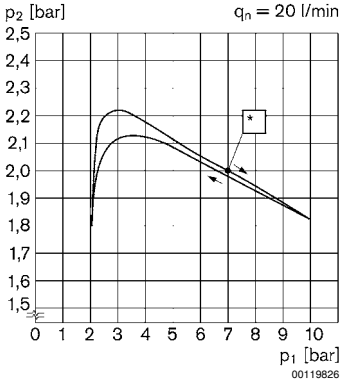
| | |
|---|---|
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator, Can be assembled into blocks |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | See table below |
| Pressure supply | single |
| Max. Internal air consumption | 1.5 l/min |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The E11 locking is delivered without a key (see accessories for keys).
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

| | Port | Qn | Working pressure min./max. | Adjustment range min. - max.. | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | [bar] | [kg] | |
|  | G 1 | 14500 | 0.5 / 16 | 0.5 - 10 | 0.905 | R412009099 |
| | | | 0.2 / 16 | 0.2 - 4 | | R412009158 |
| Order pressure gauge separately<br>Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | | |

## Pressure characteristics curve

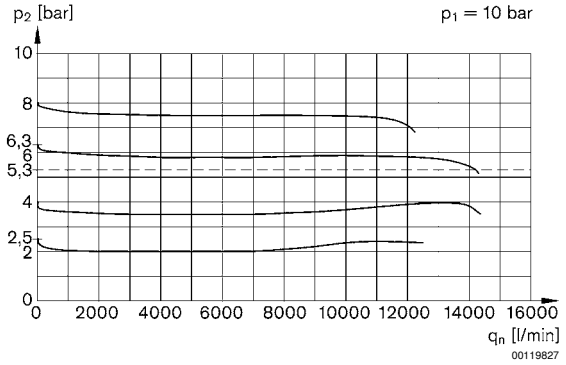



p1 = working pressure
p2 = secondary pressure
qn = nominal flow
* starting point

# Pressure regulator, Series AS5-RGS-...-E11

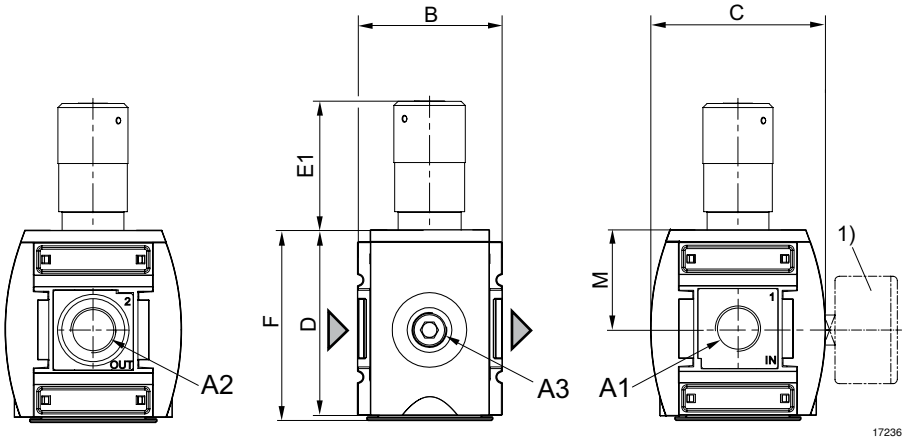
**► G 1 ► Qn= 14500 l/min ► Activation: mechanical ► lockable ► with E11 locking**

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




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

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
1) Order pressure gauge separately

| A1 | A2 | A3 | B | C | D | E1 | F | M | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1 | G 1 | G 1/4 | 85 | 103 | 109 | 90 | 112 | 58 | | | | | |

# Pressure regulator, Series AS5-RGS

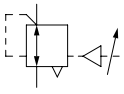
**► G 3/4 - G 1 ► Qn= 16500 l/min ► Activation: pneumatically**

23140

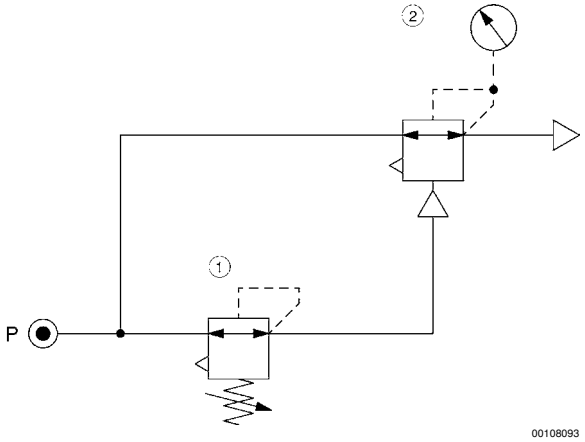
| | |
|---|---|
| Mounting orientation | Any |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator, Can be assembled into blocks |
| Regulator function | with relieving air exhaust |
| Pressure supply | single |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

| | Port | Qn | Adjustment range min. - max.. | Weight | Part No. |
|---|---|---|---|---|---|
| | | [l/min] | [bar] | [kg] | |
|  | G 3/4<br>G 1 | 16500 | 0.5 - 16 | 1.07 | **R412009094**<br>R412009095 |
| Order pressure gauge separately<br>Control pressure: see diagram<br>Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | |

## Application example



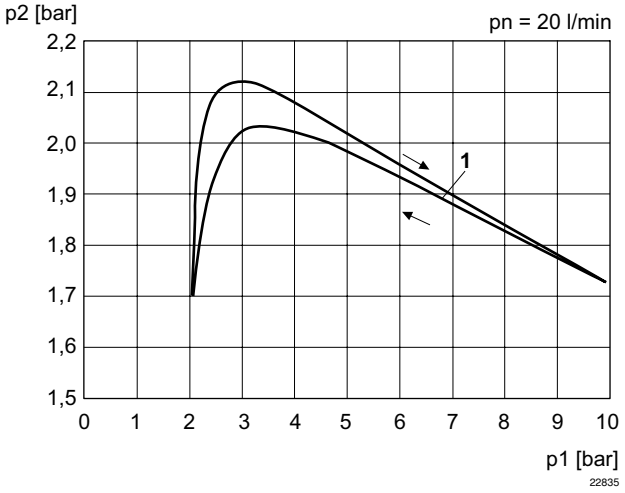

00108093

1) precision pressure regulator 2) pressure regulator valve, pneumatically operated

# Pressure regulator, Series AS5-RGS

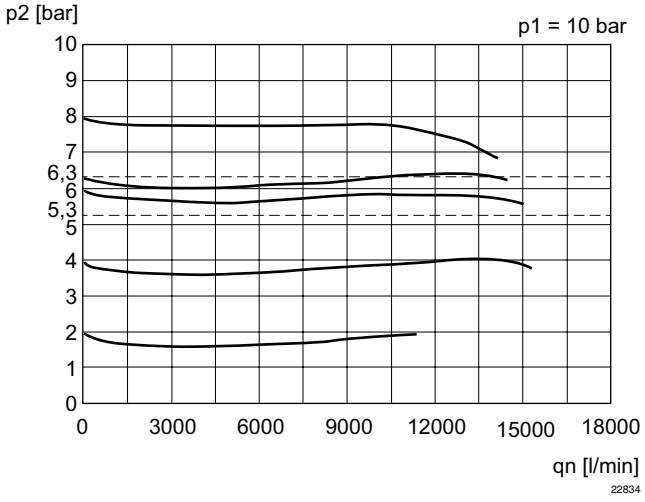
**► G 3/4 - G 1 ► Qn= 16500 l/min ► Activation: pneumatically**

## Pressure characteristics curve




p1 = working pressure
p2 = secondary pressure
qn = nominal flow
1) = Starting point

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

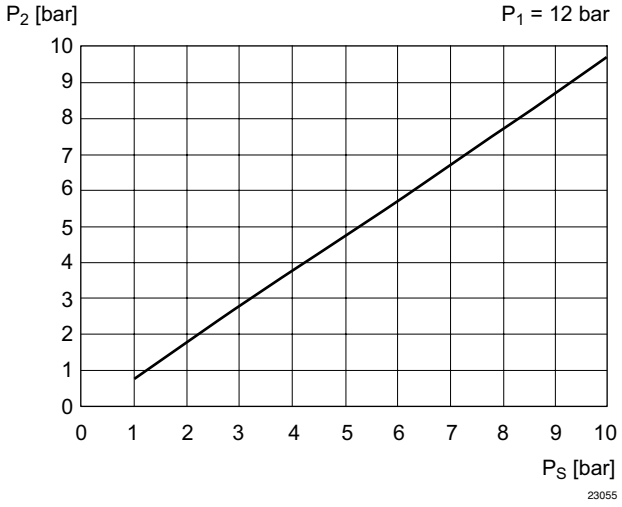



p1 = working pressure
p2 = secondary pressure
qn = nominal flow

# Pressure regulator, Series AS5-RGS

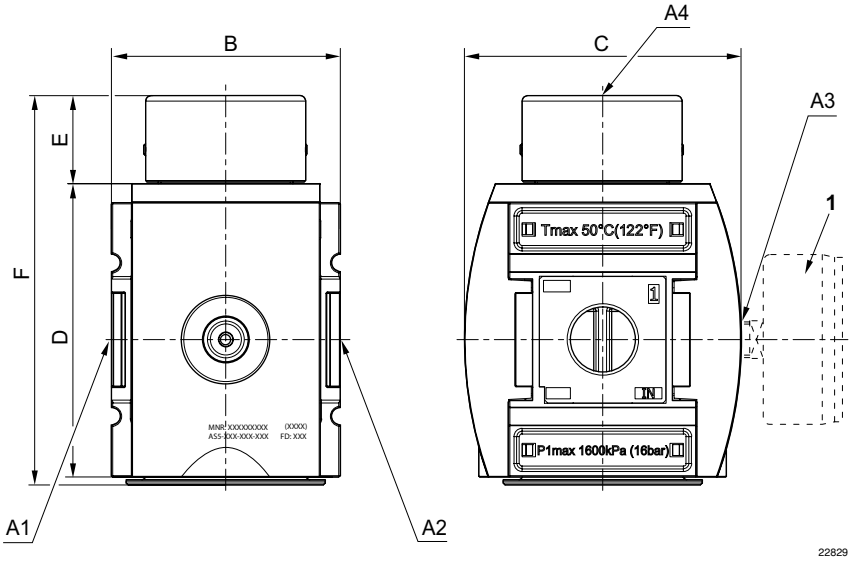
**► G 3/4 - G 1 ► Qn= 16500 l/min ► Activation: pneumatically**

## control pressure characteristic




p1 = working pressure
p2 = secondary pressure
PS = control pressure

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
A4 = control pressure connection
1) Order pressure gauge separately

| A1 | A2 | A3 | A4 | B | C | D | E | F | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | G 1/4 | 85 | 103 | 109 | 32.6 | 145 | | | | | |
| G 1 | G 1 | G 1/4 | G 1/4 | 85 | 103 | 109 | 32.6 | 145 | | | | | |

# Filter pressure regulator, Series AS5-FRE

**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX**

00119795

| | |
|---|---|
| Version | 1-in-1, Can be assembled into blocks |
| Parts | Filter, Pressure regulator |
| Nominal flow Qn | 14000 l/min |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | See table below |
| Pressure supply | single |
| Filter reservoir volume | 87 $cm^3$ |
| Filter element | exchangeable |
| Condensate drain | See table below |
| Max. Internal air consumption | 1.5 l/min |

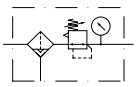
| Materials: | |
|---|---|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Filter insert | Polyethylene |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22

## Filter pressure regulator, Series AS5-FRE

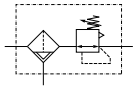
**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX**

| | | Port | Working pressure min./max. | Adjustment range min./max. | Condensate drain | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | | [bar] | [bar] | | [kg] | | |
|  |  | G 3/4 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 1.08 | 1); 3); 5) | **R412009200** |
| | | G 3/4 | 2 / 16 | 0.5 / 8 | fully automatic, open without pressure | 1.13 | 1); 3); 5) | **R412009201** |
| | | G 3/4 | 0 / 16 | 0.5 / 8 | fully automatic, closed without pressure | 1.13 | 1); 3); 5) | **R412009202** |
| | | G 3/4 | 2 / 16 | 0.5 / 10 | semi-automatic, open without pressure | 1.57 | 1); 4) | **R412009206** |
| | | G 3/4 | 2 / 16 | 0.5 / 10 | fully automatic, open without pressure | 1.62 | 1); 4) | R412009207 |
| | | G 3/4 | 0 / 16 | 0.5 / 10 | fully automatic, closed without pressure | 1.62 | 1); 4) | R412009208 |
| | | G 1 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 1.08 | 1); 3); 5) | **R412009209** |
| | | G 1 | 2 / 16 | 0.5 / 8 | fully automatic, open without pressure | 1.13 | 1); 3); 5) | **R412009210** |
| | | G 1 | 0 / 16 | 0.5 / 8 | fully automatic, closed without pressure | 1.13 | 1); 3); 5) | R412009211 |
| | | G 1 | 2 / 16 | 0.5 / 10 | semi-automatic, open without pressure | 1.57 | 1); 4) | R412009215 |
| | | G 1 | 2 / 16 | 0.5 / 10 | fully automatic, open without pressure | 1.62 | 1); 4) | R412009216 |
| | | G 1 | 0 / 16 | 0.5 / 10 | fully automatic, closed without pressure | 1.62 | 1); 4) | R412009217 |

1) Pressure gauge enclosed separately
2) Order pressure gauge separately
3) Reservoir: Polycarbonate
4) Reservoir: Die cast zinc
5) Protective guard: Polyamide
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

## Filter pressure regulator, Series AS5-FRE

**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX**

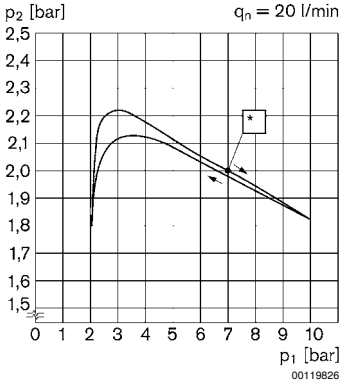
| | | Port | Working pressure min./max. | Adjustment range min./max. | Condensate drain | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | | [bar] | [bar] | | [kg] | | |
|  | - | G 3/4 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 0.99 | 2); 3); 5) | **R412009175** |
| | | G 3/4 | 2 / 16 | 0.5 / 8 | fully automatic, open without pressure | 1.04 | 2); 3); 5) | **R412009176** |
| | | G 3/4 | 0 / 16 | 0.5 / 8 | fully automatic, closed without pressure | 1.04 | 2); 3); 5) | R412009177 |
| | | G 3/4 | 2 / 16 | 0.5 / 10 | semi-automatic, open without pressure | 0.99 | 2); 3); 5) | **R412009193** |
| | | G 3/4 | 2 / 16 | 0.5 / 10 | fully automatic, open without pressure | 1.04 | 2); 3); 5) | R412009194 |
| | | G 3/4 | 0 / 16 | 0.5 / 10 | fully automatic, closed without pressure | 1.04 | 2); 3); 5) | R412009195 |
| | | G 3/4 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 1.48 | 2); 4) | R412009181 |
| | | G 3/4 | 2 / 16 | 0.5 / 8 | fully automatic, open without pressure | 1.53 | 2); 4) | R412009182 |
| | | G 3/4 | 0 / 16 | 0.5 / 8 | fully automatic, closed without pressure | 1.53 | 2); 4) | R412009183 |
| | | G 1 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 0.99 | 2); 3); 5) | **R412009184** |
| | | G 1 | 2 / 16 | 0.5 / 8 | fully automatic, open without pressure | 1.04 | 3); 5) | **R412009185** |
| | | G 1 | 0 / 16 | 0.5 / 8 | fully automatic, closed without pressure | 1.04 | 2); 3); 5) | R412009186 |
| | | G 1 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 1.48 | 2); 4) | R412009190 |
| | | G 1 | 2 / 16 | 0.5 / 8 | fully automatic, open without pressure | 1.53 | 2); 4) | R412009191 |
| | | G 1 | 0 / 16 | 0.5 / 8 | fully automatic, closed without pressure | 1.53 | 2); 4) | R412009192 |
| | | G 1 | 2 / 16 | 0.5 / 10 | semi-automatic, open without pressure | 0.99 | 2); 3); 5) | R412009196 |
| | | G 1 | 2 / 16 | 0.5 / 10 | fully automatic, open without pressure | 1.04 | 2); 3); 5) | **R412009197** |
| | | G 1 | 0 / 16 | 0.5 / 10 | fully automatic, closed without pressure | 1.04 | 2); 3); 5) | **R412009198** |

1) Pressure gauge enclosed separately
2) Order pressure gauge separately
3) Reservoir: Polycarbonate
4) Reservoir: Die cast zinc
5) Protective guard: Polyamide
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filter pressure regulator, Series AS5-FRE

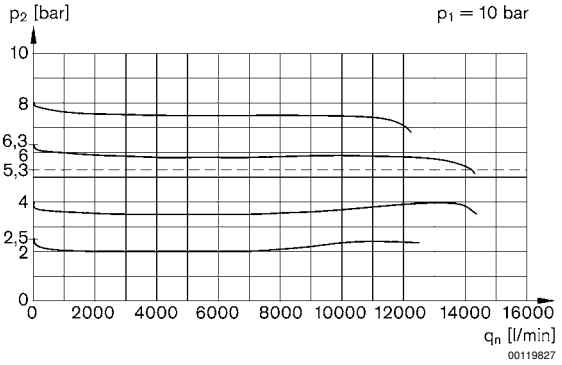
**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX**

## Pressure characteristics curve




p1 = working pressure
p2 = secondary pressure
qn = nominal flow
* starting point

## Flow rate characteristic

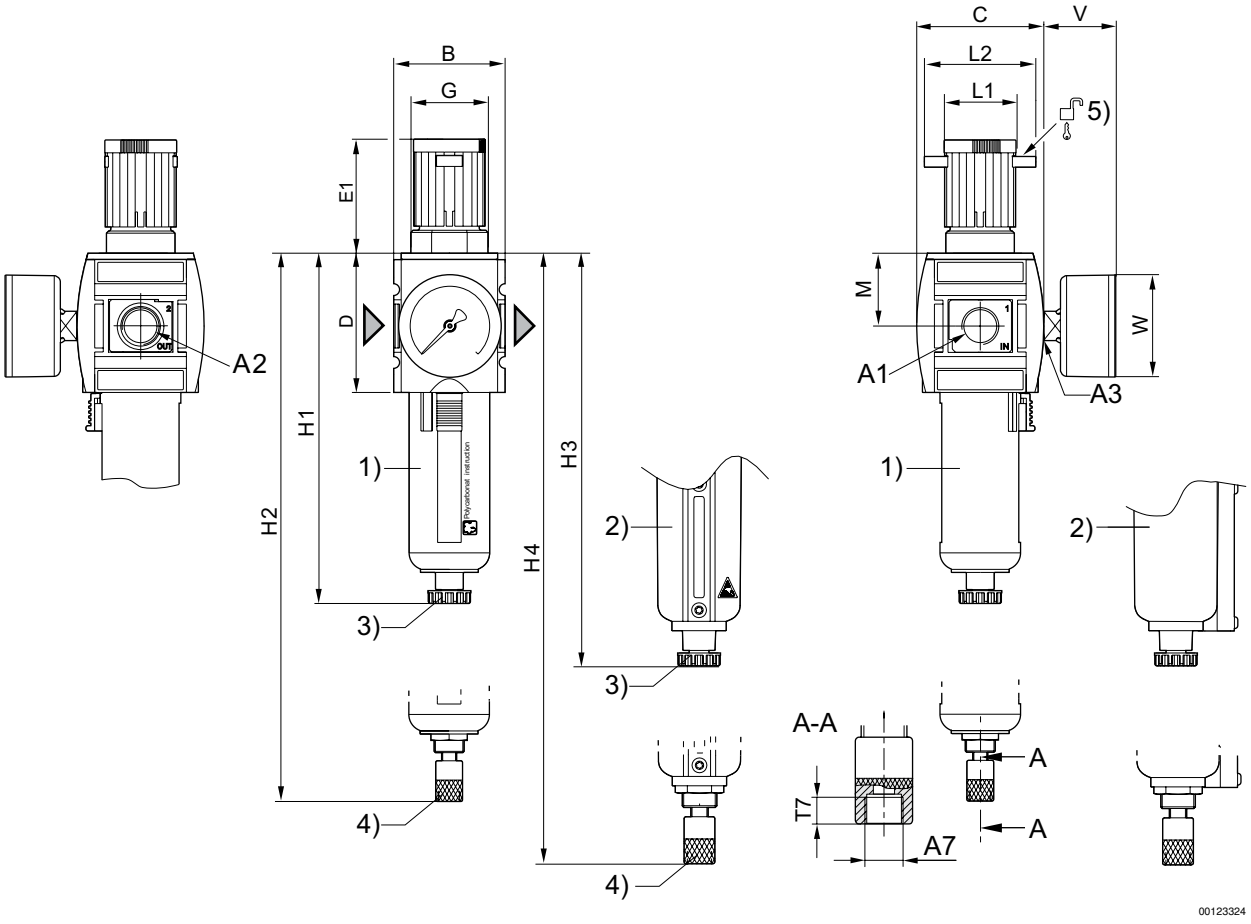



p1 = working pressure
p2 = secondary pressure
qn = nominal flow

# Filter pressure regulator, Series AS5-FRE

**► G 3/4 - G 1 ► filter porosity: 5 µm ► lockable ► for padlocks ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
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

| A1 | A2 | A3 | A7 | B | C | D | E1 | G | H1 | H2 | H3 | H4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 | 250 | 206 | 193.5 | 210.5 |
| G 1 | G 1 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 | 250 | 206 | 193.5 | 210.5 |

| A1 | L1 | L2 | M | T7 | V | W | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | 41 | 60 | 58 | 8.5 | 38 | 63 | | | | | | | |
| G 1 | 41 | 60 | 58 | 8.5 | 38 | 63 | | | | | | | |

# Filter pressure regulator, Series AS5-FRE

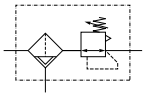
**► G 3/4 - G 1 ► filter porosity: 25 µm ► lockable ► for padlocks ► suitable for ATEX**

00133866

| | |
|---|---|
| Version | 1-in-1, Can be assembled into blocks |
| Parts | Filter, Pressure regulator |
| Mounting orientation | vertical |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Pressure supply | single |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| Max. Internal air consumption | 1.5 l/min |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Die cast zinc |
| Protective guard | Polyamide |
| 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.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 7

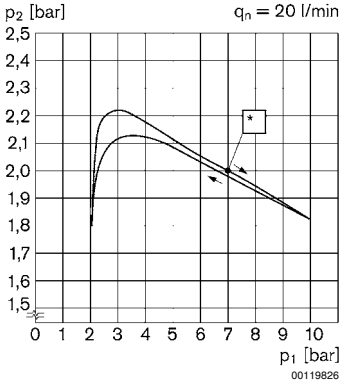
| | Port | Qn | Working pressure min./max. | Adjustment range min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | [bar] | | [kg] | |
|  | G 3/4<br>G 1 | 13000 | 2 / 16 | 0.5 / 8 | semi-automatic, open without pressure | 1.57 | **R412009188**<br>**R412009189** |

Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filter pressure regulator, Series AS5-FRE

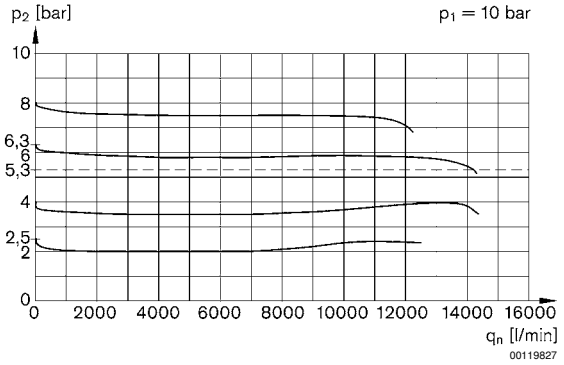
**► G 3/4 - G 1 ► filter porosity: 25 µm ► lockable ► for padlocks ► suitable for ATEX**

## Pressure characteristics curve




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

## Flow rate characteristic

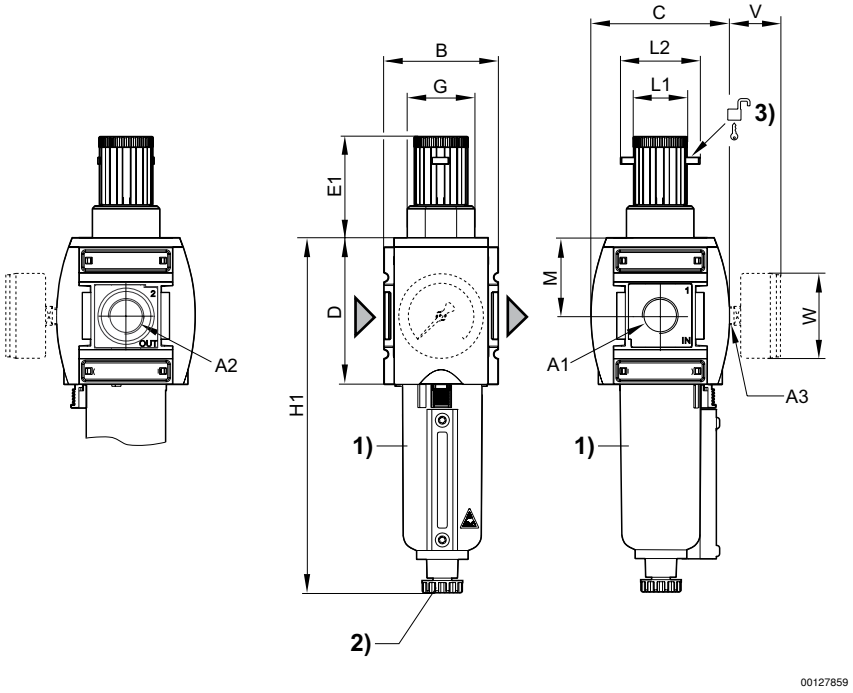



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Filter pressure regulator, Series AS5-FRE

**► G 3/4 - G 1 ► filter porosity: 25 µm ► lockable ► for padlocks ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = pressure gauge connection
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain
3) Mounting option for padlocks; max. shackle Ø 8

| A1 | A2 | A3 | B | C | D | E1 | G | H1 | L1 | L2 | M | V |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | 85 | 103 | 109 | 75 | M50x1,5 | 250 | 41 | 60 | 58 | 38 |
| G 1 | G 1 | G 1/4 | 85 | 103 | 109 | 75 | M50x1,5 | 250 | 41 | 60 | 58 | 38 |

| A1 | W | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | 63 | | | | | | | | | | | |
| G 1 | 63 | | | | | | | | | | | |

# Filter pressure regulator, Series AS5-FRE

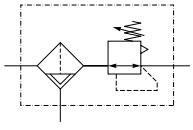
**► G 3/4 - G 1 ► filter porosity: 40 µm ► lockable ► for padlocks ► suitable for ATEX**

00133866

| | |
|---|---|
| Version | 1-in-1, Can be assembled into blocks |
| Parts | Filter, Pressure regulator |
| Nominal flow Qn | 14000 l/min |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.5 bar / 10 bar |
| Pressure supply | single |
| Filter reservoir volume | 87 $cm^3$ |
| Filter element | exchangeable |
| Condensate drain | See table below |
| Max. Internal air consumption | 1.5 l/min |
| | |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| 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.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22

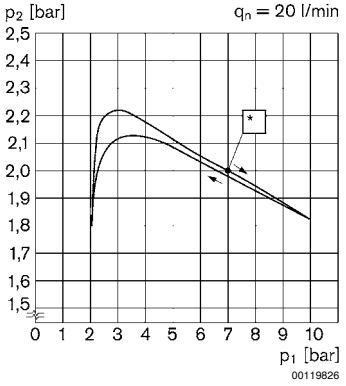
| | Port | Working pressure min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|
| | | [bar] | | [kg] | |
|  | G 3/4 | 2 / 16 | semi-automatic, open without pressure | 0.99 | **R412009218** |
| | G 3/4 | 2 / 16 | fully automatic, open without pressure | 1.04 | R412009219 |
| | G 3/4 | 0 / 16 | fully automatic, closed without pressure | 1.04 | R412009220 |
| | G 1 | 2 / 16 | semi-automatic, open without pressure | 0.99 | **R412009221** |
| | G 1 | 2 / 16 | fully automatic, open without pressure | 1.04 | **R412009222** |
| | G 1 | 0 / 16 | fully automatic, closed without pressure | 1.04 | R412009223 |

Order pressure gauge separately
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filter pressure regulator, Series AS5-FRE

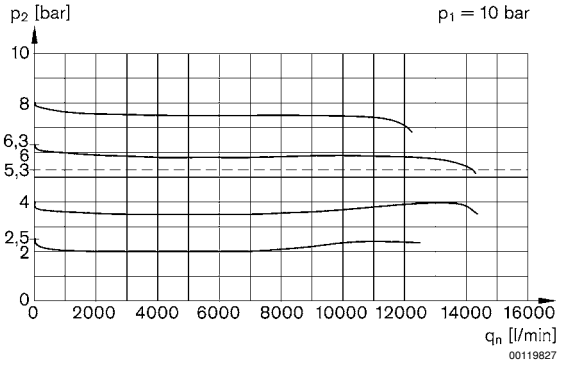
**► G 3/4 - G 1 ► filter porosity: 40 µm ► lockable ► for padlocks ► suitable for ATEX**

## Pressure characteristics curve




p1 = working pressure
p2 = secondary pressure
qn = nominal flow
* starting point

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

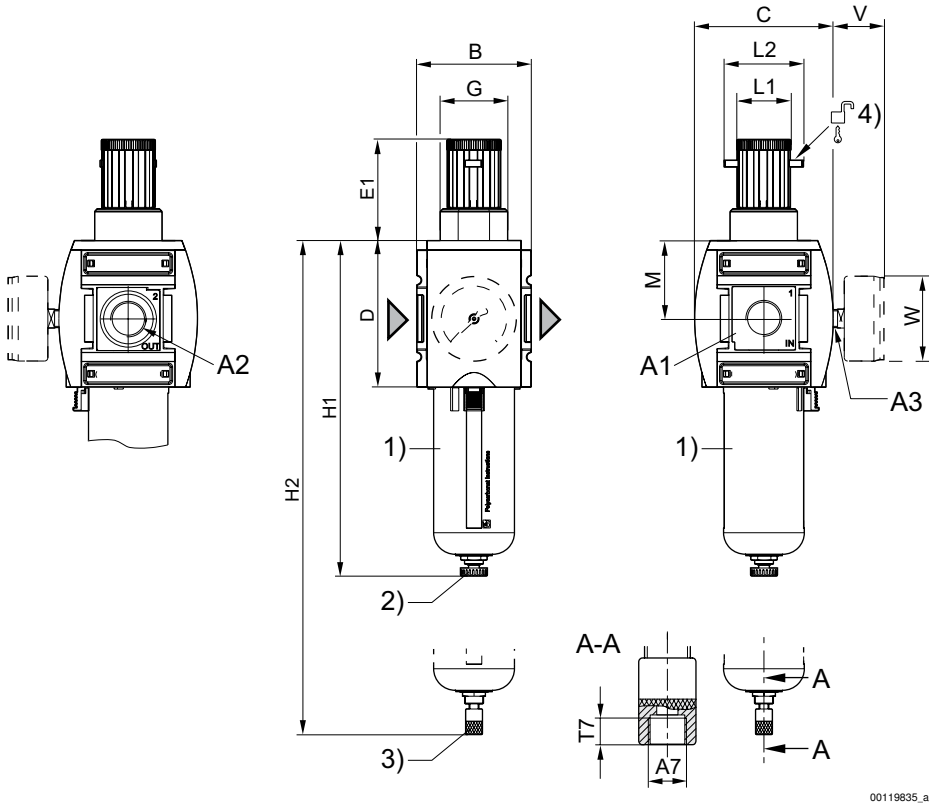



p1 = working pressure
p2 = secondary pressure
qn = nominal flow

# Filter pressure regulator, Series AS5-FRE

**► G 3/4 - G 1 ► filter porosity: 40 µm ► lockable ► for padlocks ► suitable for ATEX**

## Dimensions




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

| A1 | A2 | A3 | A7 | B | C | D | E1 | G | H1 | H2 | L1 | L2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 | 250 | 266 | 41 | 60 |
| G 1 | G 1 | G 1/4 | G 1/8 | 85 | 103 | 109 | 75 | M50x1,5 | 250 | 266 | 41 | 60 |

| A1 | M | T7 | V | W | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | 58 | 8.5 | 38 | 63 | | | | | | | | |
| G 1 | 58 | 8.5 | 38 | 63 | | | | | | | | |

# Filter, Series AS5-FLS

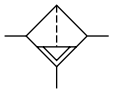
**► G 3/4 - G 1 ► filter porosity: 5 µm ► suitable for ATEX**

00119796

| | |
|---|---|
| Version | Standard filter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 5 µm |
| Condensate drain | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| 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.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22

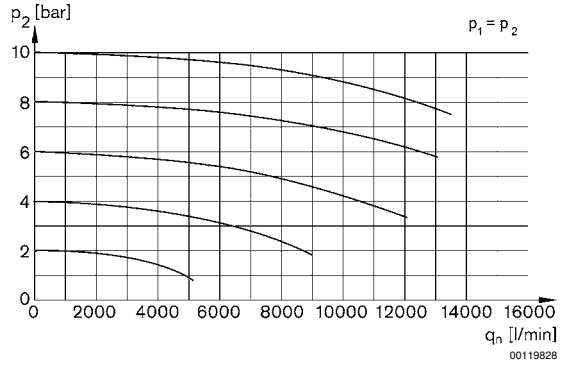
| | Port | Qn | Working pressure min./max. | Condensate drain | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | | | [kg] | |
|  | G 3/4 | 7800 | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.718 | **R412009000** |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.769 | **R412009001** |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.769 | R412009002 |
| | G 3/4 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc with window | - | 1.21 | R412009006 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc with window | - | 1.26 | R412009007 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc with window | - | 1.26 | R412009008 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.718 | **R412009009** |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.769 | **R412009010** |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.769 | R412009011 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc with window | - | 1.21 | R412009015 |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc with window | - | 1.26 | R412009016 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc with window | - | 1.26 | R412009017 |

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filter, Series AS5-FLS

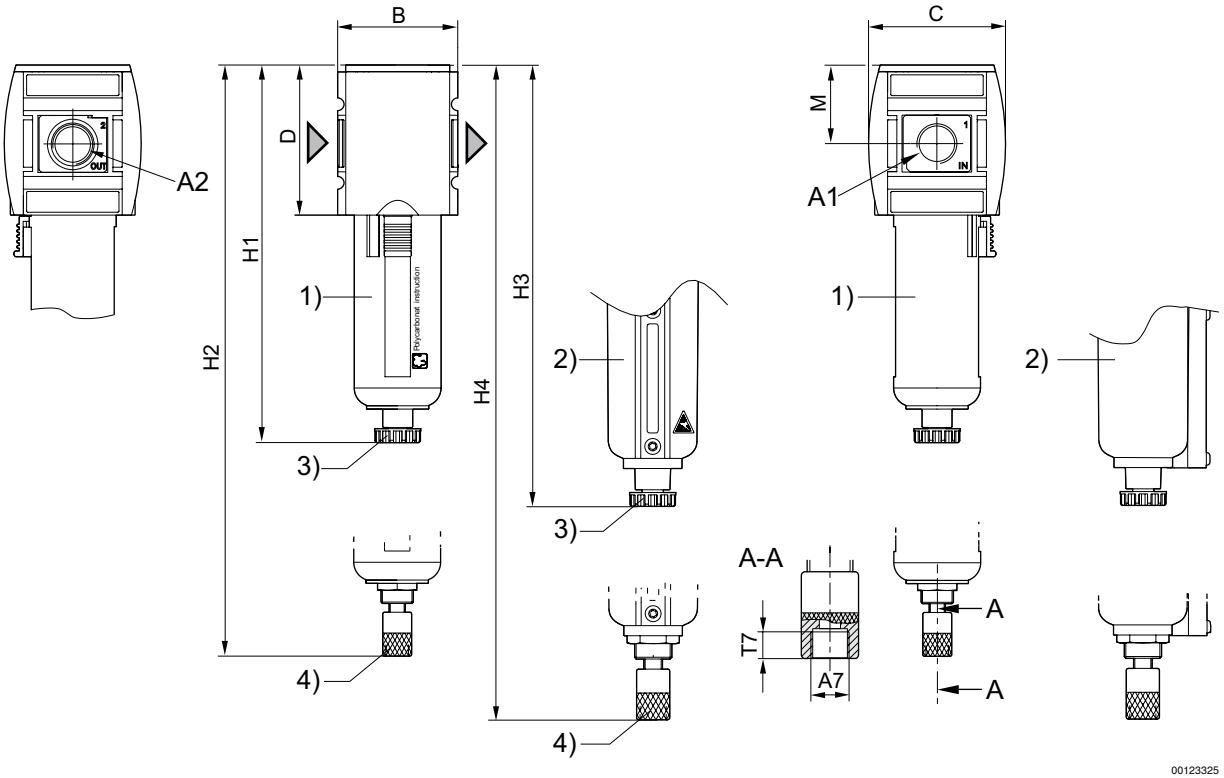
**► G 3/4 - G 1 ► filter porosity: 5 µm ► suitable for ATEX**

## Flow rate characteristic




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

## Dimensions




A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

| A1 | A2 | A7 | B | C | D | H1 | H2 | H3 | H4 | M | T7 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 250 | 266 | 254 | 270.5 | 58 | 8.5 | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 250 | 266 | 254 | 270.5 | 58 | 8.5 | | |

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Filter, Series AS5-FLS

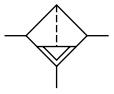
**► G 3/4 - G 1 ► filter porosity: 25 µm ► suitable for ATEX**

00133768

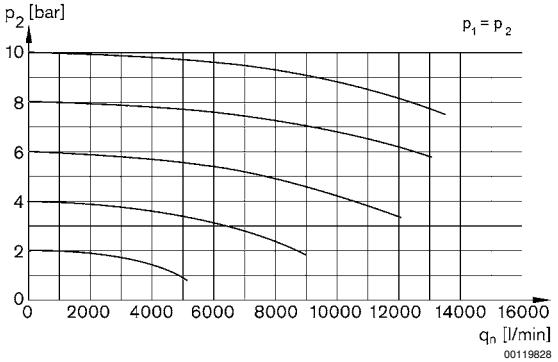
| | |
|---|---|
| Version | Standard filter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 25 µm |
| | |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Die cast zinc |
| 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.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22

| | Port | Qn | Working pressure min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | [kg] | |
|  | G 3/4 | 7800 | 2 / 16 | semi-automatic, open without pressure | 1.21 | R412009089 |
| | G 1 | | | | 1.26 | **R412009090** |
| Nominal flow with secondary pressure 6,3 bar at Δp = 1 bar | | | | | | |

## Flow rate characteristic

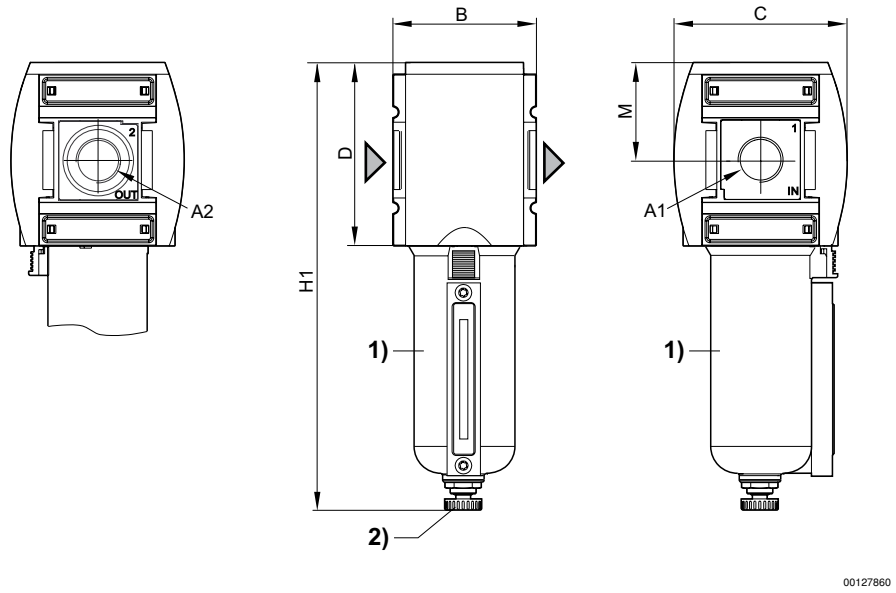



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Filter, Series AS5-FLS

**► G 3/4 - G 1 ► filter porosity: 25 µm ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain

| A1 | A2 | B | C | D | H1 | M | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | 85 | 103 | 109 | 250 | 58 | | | | | | | |
| G 1 | G 1 | 85 | 103 | 109 | 250 | 58 | | | | | | | |

# Filter, Series AS5-FLS

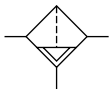
**► G 3/4 - G 1 ► filter porosity: 40 µm ► suitable for ATEX**

00119796

| | |
|---|---|
| Version | Standard filter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 40 µm |
| Condensate drain | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| 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.
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22

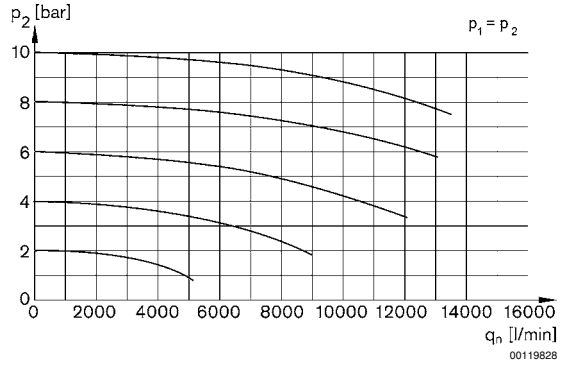
| | Port | Qn | Working pressure min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | [kg] | |
|  | G 3/4 | 7800 | 2 / 16 | semi-automatic, open without pressure | 0.718 | **R412009003** |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | 0.769 | **R412009004** |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | 0.769 | R412009005 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | 0.718 | **R412009012** |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | 0.769 | R412009013 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | 0.769 | R412009014 |

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filter, Series AS5-FLS

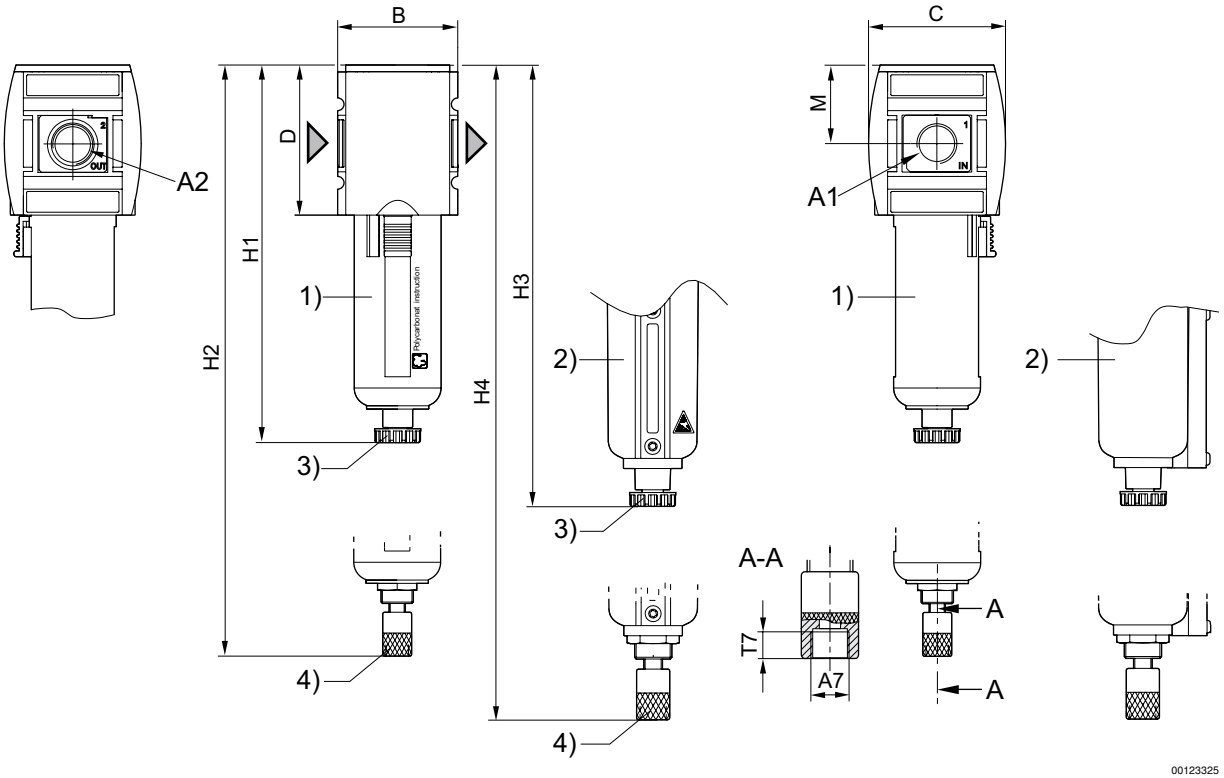
**► G 3/4 - G 1 ► filter porosity: 40 µm ► suitable for ATEX**

## Flow rate characteristic




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

## Dimensions




A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

| A1 | A2 | A7 | B | C | D | H1 | H2 | H3 | H4 | M | T7 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 250 | 266 | 254 | 270.5 | 58 | 8.5 | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 250 | 266 | 254 | 270.5 | 58 | 8.5 | | |

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Pre-filter, Series AS5-FLP

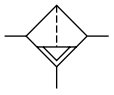
**► G 3/4 - G 1 ► filter porosity: 0.3 µm ► suitable for ATEX**

00127785

| | |
|---|---|
| Version | Pre-filter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 0.3 $\mu$m |
| Condensate drain | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Filter insert | Impregnated paper |

**Technical Remarks**

- 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”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 $\mu$m
- max. residual oil content at the outlet: 1 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 2

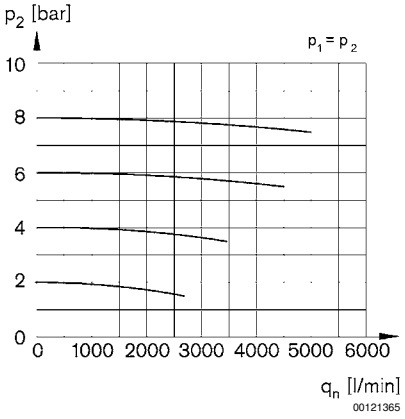
| | Port | Qn | Working pressure min./max. | Condensate drain | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | | | [kg] | |
|  | G 3/4 | 2200 | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.71 | R412009018 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.76 | R412009019 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.76 | R412009020 |
| | G 3/4 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc | - | 1.21 | R412009024 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc | - | 1.26 | R412009025 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc | - | 1.26 | R412009026 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.71 | R412009027 |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.76 | R412009028 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.76 | R412009029 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc | - | 1.21 | R412009033 |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc | - | 1.26 | R412009034 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc | - | 1.26 | R412009035 |

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

# Pre-filter, Series AS5-FLP

**► G 3/4 - G 1 ► filter porosity: 0.3 µm ► suitable for ATEX**

## Flow rate characteristic

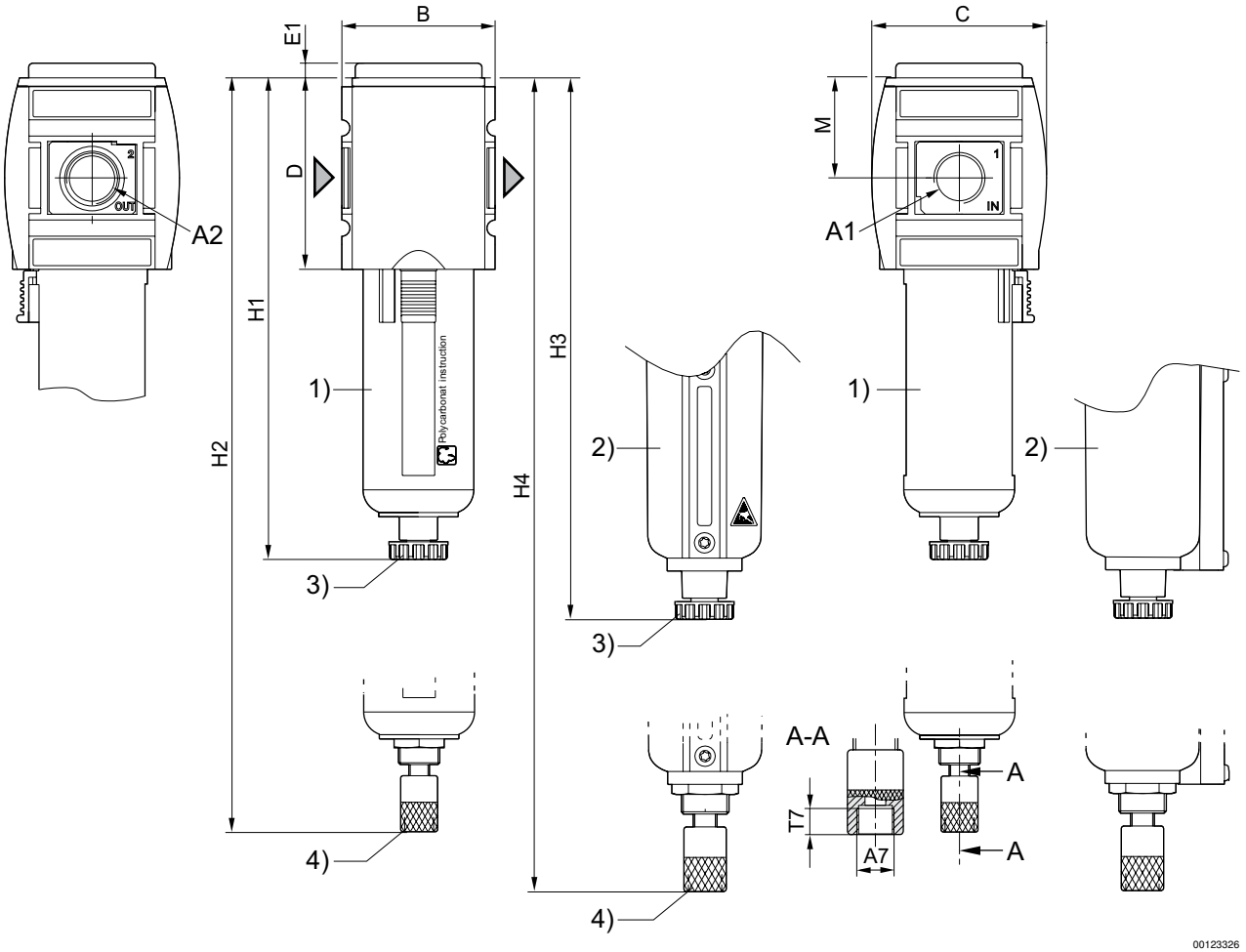



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Pre-filter, Series AS5-FLP

**► G 3/4 - G 1 ► filter porosity: 0.3 µm ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | H3 | H4 | M | T7 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 5 | 250 | 266 | 254 | | 58 | 8.5 | | | | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 5 | 250 | 266 | 254 | | 58 | 8.5 | | | | | |

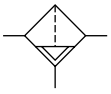
# Pre-filter, Series AS5-FLP

**► G 3/4 - G 1 ► filter porosity: 0.3 µm ► contamination display: integrated ► suitable for ATEX**


| | |
|---|---|
| Version | Pre-filter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 0.3 µm |
| Condensate drain | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| Filter insert | Impregnated paper |

**Technical Remarks**

- 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”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 5 µm
- max. residual oil content at the outlet: 1 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 2

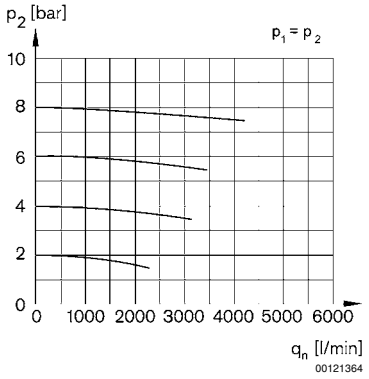
| | Port | Qn | Working pressure min./max. | Condensate drain | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | [kg] | |
|  | G 3/4 | 2200 | 2 / 16 | semi-automatic, open without pressure | 0.361 | R412009021 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | 0.41 | R412009022 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | 0.41 | R412009023 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | 0.361 | R412009030 |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | 0.41 | R412009031 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | 0.762 | R412009032 |

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

# Pre-filter, Series AS5-FLP

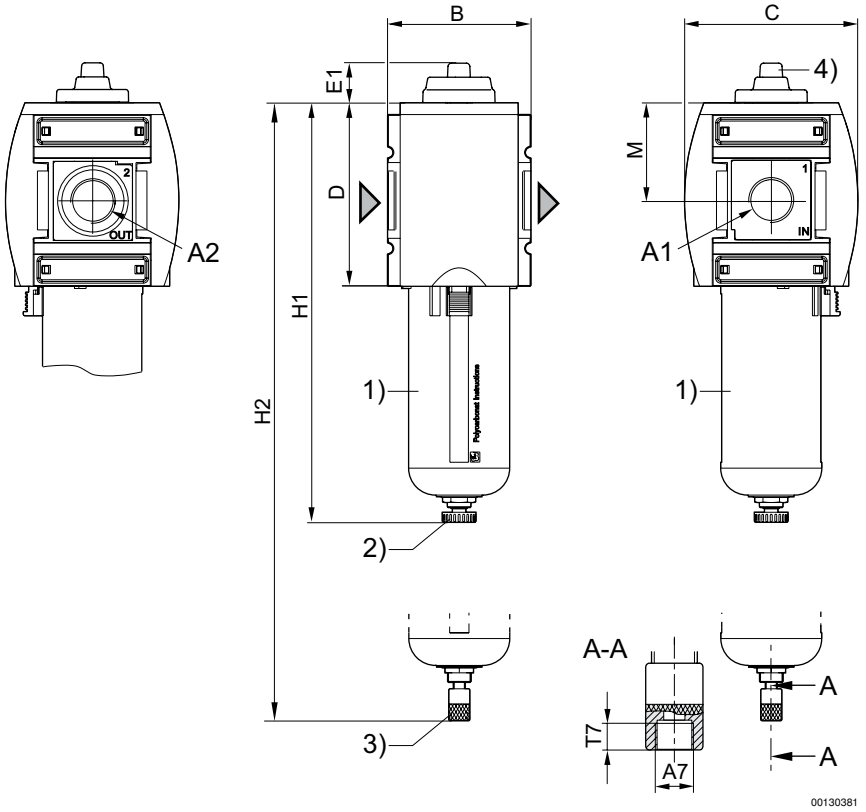
**► G 3/4 - G 1 ► filter porosity: 0.3 µm ► contamination display: integrated ► suitable for ATEX**

## Flow rate characteristic




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

## Dimensions




A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) contamination display

## Pre-filter, Series AS5-FLP

**► G 3/4 - G 1 ► filter porosity: 0.3 µm ► contamination display: integrated ► suitable for ATEX**

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | M | T7 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 23.7 | 250 | 266 | 58 | 8.5 | | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 23.7 | 250 | 266 | 58 | 8.5 | | | |

# Microfilter, Series AS5-FLC

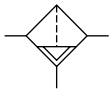
**► G 3/4 - G 1 ► filter porosity: 0.01 µm ► suitable for ATEX**

00127784

| | |
|---|---|
| Version | Microfilter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 0.01 µm |
| Condensate drain | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Filter insert | Borosilicate glass fiber |

**Technical Remarks**

- 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”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 0.3 µm
- max. residual oil content at the outlet: 0.01 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

| | Port | Qn | Working pressure min./max. | Condensate drain | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | | | [kg] | |
|  | G 3/4 | 1600 | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.71 | R412009036 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.76 | R412009037 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.76 | R412009038 |
| | G 3/4 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc | - | 1.21 | R412009042 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc | - | 1.26 | R412009043 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc | - | 1.26 | R412009044 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.71 | **R412009045** |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.76 | R412009046 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.76 | R412009047 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc | - | 1.21 | R412009051 |
| | G 1 | | 2 / 16 | fully automatic, closed without pressure | Die cast zinc | - | 1.26 | R412009052 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc | - | 1.26 | R412009053 |

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

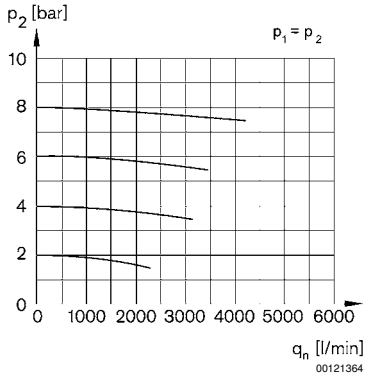
# Microfilter, Series AS5-FLC

**► G 3/4 - G 1 ► filter porosity: 0.01 µm ► suitable for ATEX**

| Part No. | Note |
|---|---|
| | |
| R412009036 | - |
| R412009037 | - |
| R412009038 | - |
| R412009042 | 1) |
| R412009043 | 1) |
| R412009044 | 1) |
| **R412009045** | - |
| R412009046 | - |
| R412009047 | - |
| R412009051 | 1) |
| R412009052 | 1) |
| R412009053 | 1) |

1) Reservoir with level indicator
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

## Flow rate characteristic

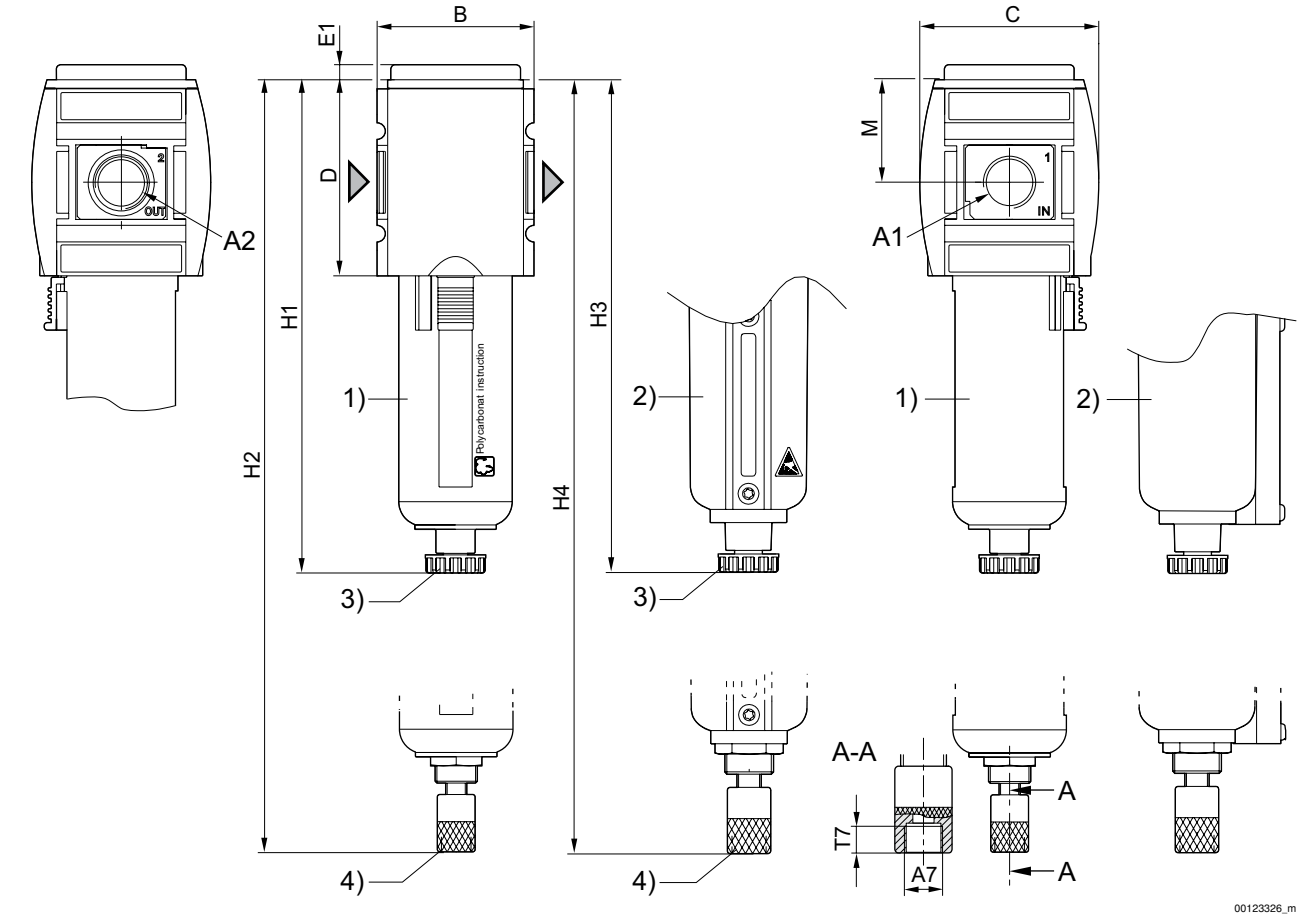



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Microfilter, Series AS5-FLC

**► G 3/4 - G 1 ► filter porosity: 0.01 µm ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | H3 | H4 | M | T7 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 5 | 250 | 266 | 254 | 270 | 58 | 8.5 | | | | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 5 | 250 | 266 | 254 | 270 | 58 | 8.5 | | | | | |

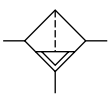
# Microfilter, Series AS5-FLC

**► G 3/4 - G 1 ► filter porosity: 0.01 µm ► contamination display: integrated ► suitable for ATEX**


| | |
|---|---|
| Version | Microfilter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| filter porosity | 0.01 µm |
| Condensate drain | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Filter insert | Borosilicate glass fiber |

**Technical Remarks**

- 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”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 0.3 µm
- max. residual oil content at the outlet: 0.01 mg/m³
- solid impurities in the compressed air at the outlet as per ISO 8573-1: class 1

| | Port | Qn | Working pressure min./max. | Condensate drain | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | [l/min] | [bar] | | | | [kg] | |
|  | G 3/4 | 1600 | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.361 | R412009054 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.41 | R412009055 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.41 | R412009056 |
| | G 3/4 | | 2 / 16 | semi-automatic, open without pressure | Die cast zinc with window | - | 1.55 | R412009060 |
| | G 3/4 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc with window | - | 1.58 | R412009061 |
| | G 3/4 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc with window | - | 1.57 | R412009062 |
| | G 1 | | 2 / 16 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.361 | R412009063 |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.41 | R412009064 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.762 | R412009065 |
| | G 1 | | 0 / 16 | semi-automatic, open without pressure | Die cast zinc with window | - | 1.48 | R412009069 |
| | G 1 | | 2 / 16 | fully automatic, open without pressure | Die cast zinc with window | - | 1.5 | R412009070 |
| | G 1 | | 0 / 16 | fully automatic, closed without pressure | Die cast zinc with window | - | 1.5 | R412009071 |

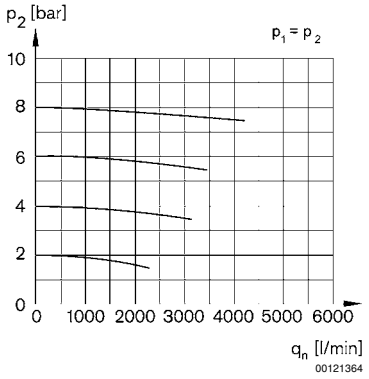
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Microfilter, Series AS5-FLC

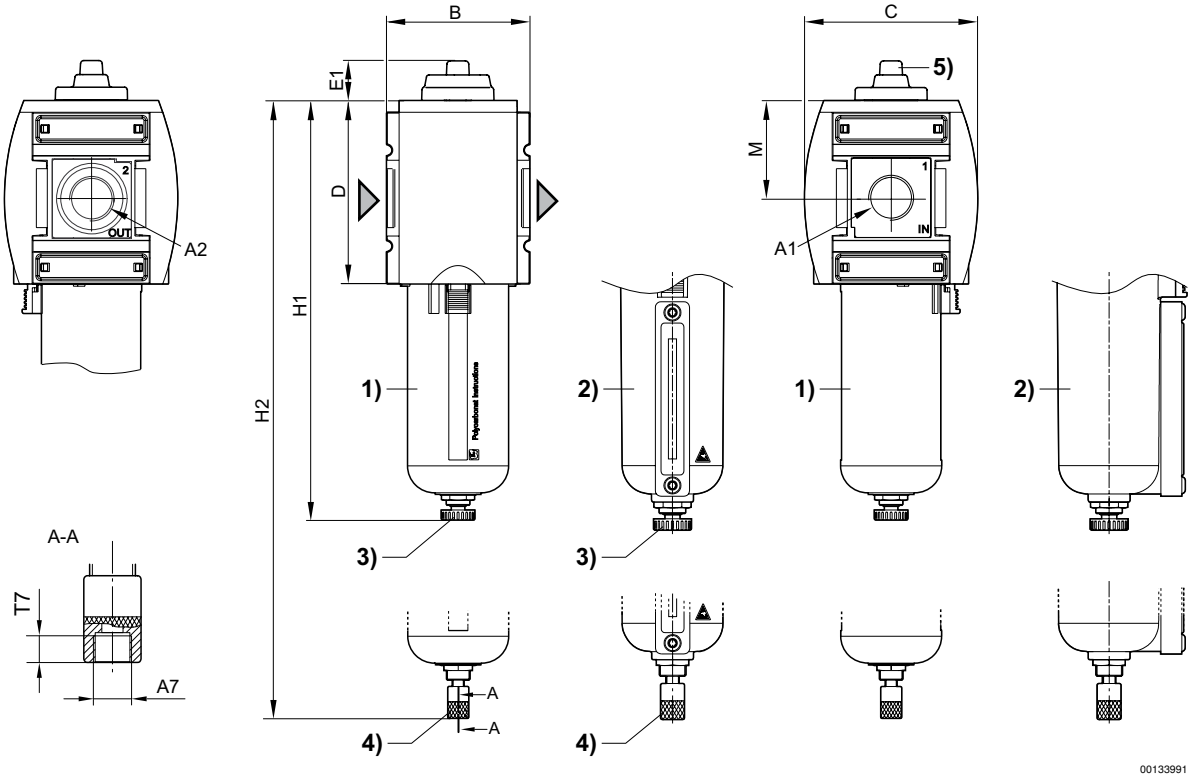
**► G 3/4 - G 1 ► filter porosity: 0.01 µm ► contamination display: integrated ► suitable for ATEX**

## Flow rate characteristic




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

## Dimensions




A1 = input
A2 = output
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) contamination display

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | M | T7 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 23.7 | 250 | -- | 58 | 8.5 | | | |

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

## Microfilter, Series AS5-FLC

**► G 3/4 - G 1 ► filter porosity: 0.01 µm ► contamination display: integrated ► suitable for ATEX**

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | M | T7 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | -- | 85 | 103 | 109 | 23.7 | -- | 266 | 58 | -- | | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 23.7 | 250 | -- | 58 | 8.5 | | | |
| G 1 | G 1 | -- | 85 | 103 | 109 | 23.7 | -- | 266 | 58 | -- | | | |

# Active carbon filter, Series AS5-FLA

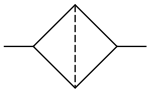
**► G 3/4 - G 1 ► suitable for ATEX**

00121762

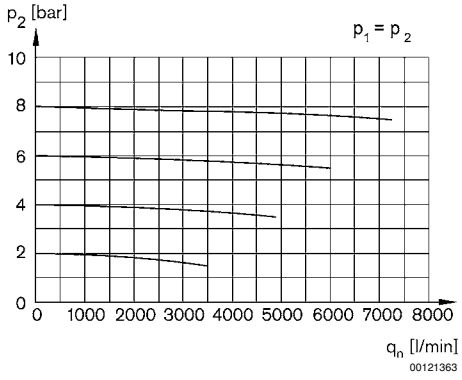
| | |
|---|---|
| Version | Active carbon filter, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Filter reservoir volume | 87 cm³ |
| Filter element | exchangeable |
| Condensate drain | without |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Filter insert | Active carbon |

## Technical Remarks

- 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”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Recommended pre-filtering: 0.01 µm
- max. residual oil content at the outlet: 0.005 mg/m³

| | Port | Qn | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | [l/min] | | | [kg] | |
|  | G 3/4 | 1700 | Polycarbonate | Polyamide | 0.71 | R412009072 |
| | G 3/4 | | Die cast zinc with window | - | 0.375 | R412009074 |
| | G 1 | | Polycarbonate | Polyamide | 0.71 | R412009075 |
| | G 1 | | Die cast zinc with window | - | 0.375 | R412009077 |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 0,1 bar | | | | | | |

## Flow rate characteristic



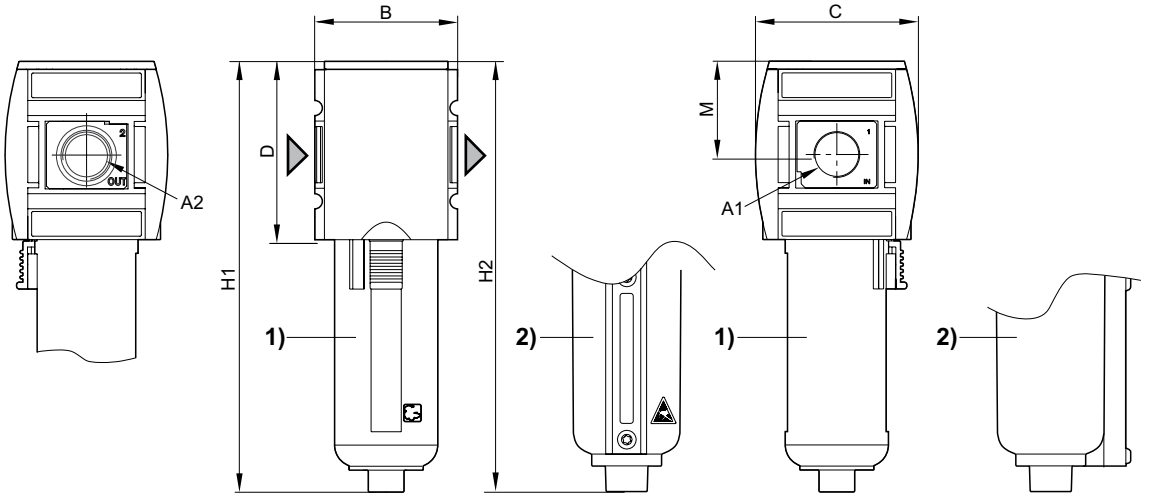

p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Active carbon filter, Series AS5-FLA

**► G 3/4 - G 1 ► suitable for ATEX**

## Dimensions




00123327

A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass

| A1 | A2 | B | C | D | H1 | H2 | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | 85 | 103 | 109 | 242 | 246 | 58 | | | | | | |
| G 1 | G 1 | 85 | 103 | 109 | 242 | 246 | 58 | | | | | | |

# Standard oil-mist lubricator, Series AS5-LBS

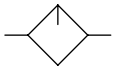
**► G 3/4 - G 1 ► suitable for ATEX**

00127885

| | |
|---|---|
| Version | Oil-mist lubricator, Can be assembled into blocks |
| Mounting orientation | vertical |
| Working pressure min./max. | 0.5 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Lubricator reservoir volume | 181 cm³ |
| Type of filling | Semi-automatic oil filling during operation<br>Manual oil filling |
| Oil type | HLP 32 (DIN 51 524 - ISO VG 32)<br>HLP 68 (DIN 51 524 - ISO VG 68) |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Electrical level detection only with ST6 sensor with reed contact, sensor holder included in the scope of the delivery.
- The entire preset drip quantity enters the pressure system
- Manual oil filling possible during operation
- Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at “Customer information”.
- Suitable for use in Ex zones 1, 2, 21, 22
- Oil dosing at 1000 l/min [drops/min]: 1-2

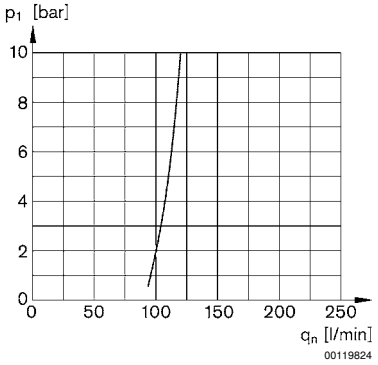
| | Port | Qn | Reservoir | Protective guard | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|
| | | [l/min] | | | [kg] | | |
|  | G 3/4 | 15800 | Polycarbonate | Polyamide | 0.76 | 2) | **R412009225** |
| | G 3/4 | | Die cast zinc with window | - | 0.762 | 2) | **R412009229** |
| | G 3/4 | | Polycarbonate | Polyamide | 0.77 | 1) | R412009226 |
| | G 1 | | Polycarbonate | Polyamide | 0.76 | 2) | **R412009231** |
| | G 1 | | Die cast zinc with window | - | 0.762 | 2) | R412009235 |
| | G 1 | | Polycarbonate | Polyamide | 0.77 | 1) | R412009232 |

1) Electrical level detection
2) suitable for ATEX: II 2G2D T4X
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Standard oil-mist lubricator, Series AS5-LBS

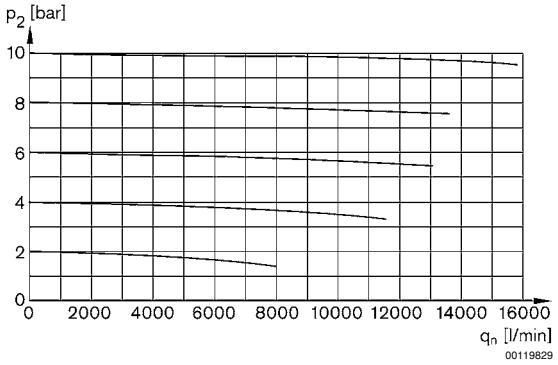
**► G 3/4 - G 1 ► suitable for ATEX**

## Lubricator activation margin




p1 = working pressure
qn = nominal flow

## Flow rate characteristic

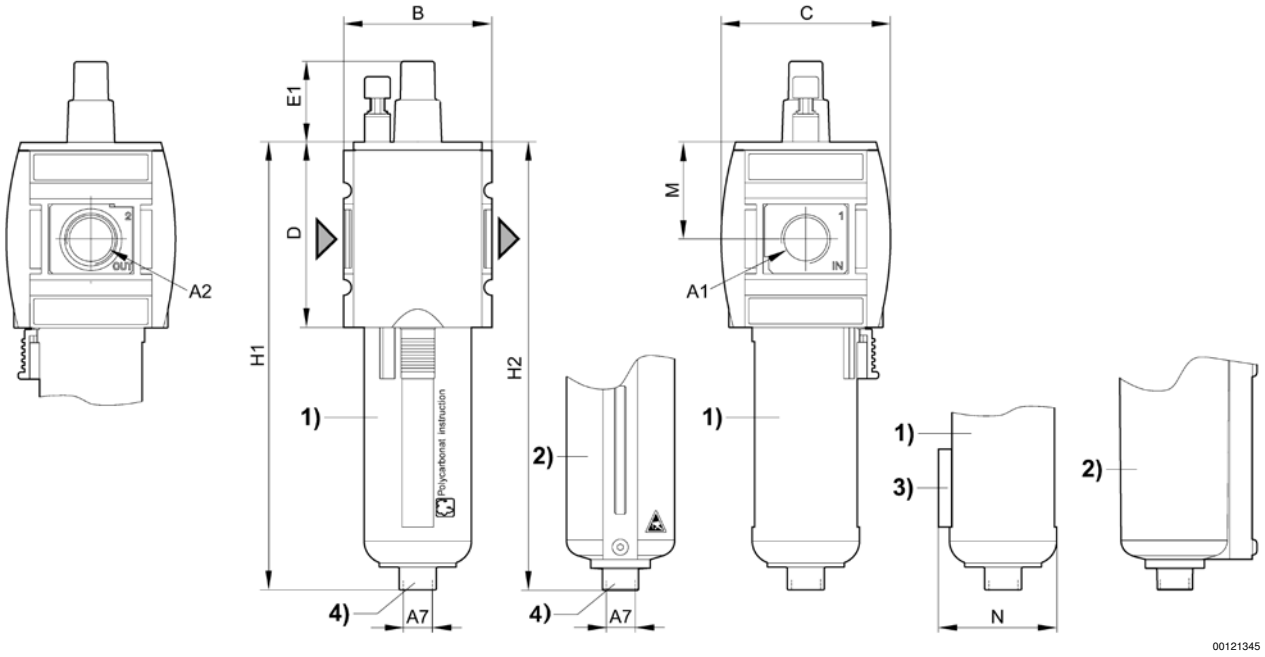



p2 = secondary pressure
qn = nominal flow

# Standard oil-mist lubricator, Series AS5-LBS

**► G 3/4 - G 1 ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Holder for sensor
4) port for semi-automatic oil filling

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | M | T7 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/8 | 85 | 103 | 109 | 30.5 | 239 | 243 | 58 | 8.5 | | | |
| G 1 | G 1 | G 1/8 | 85 | 103 | 109 | 30.5 | 239 | 243 | 58 | 8.5 | | | |

# Filling unit, electrically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection**

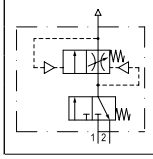
00128866_a

| | |
|---|---|
| Parts | 3/2-directional valve, electrically operated, Filling valve |
| Version | Poppet valve, Can be assembled into blocks |
| Nominal flow | 8750 l/min |
| Nominal flow, 1►2 | 8750 l/min |
| Nominal flow, 2►3 | 3700 l/min |
| Working pressure min./max. | 3 bar / 10 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class, with Plug Mounted | IP65 |
| Duty cycle | 100 % |
| | |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- ATEX optional: The ATEX ID depends on the selected pilot valve.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

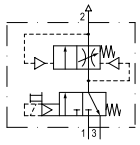
| Operating voltage | | | Power consumption | Switch-on power | | Holding power | |
|---|---|---|---|---|---|---|---|
| DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz | AC 60 Hz |
| | | | W | VA | VA | VA | VA |
| 24 V | - | - | 2 | - | - | - | - |
| - | 110 V | 110 V | - | 2.2 | 1.6 | 1.6 | 1.4 |
| - | 220 V | 230 V | - | 2.2 | 1.6 | 1.6 | 1.4 |

| | MO | Compressed air connection | | | Operating voltage | | | Power consumption | Holding power | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | |
| | | | | | | | | [W] | [VA] | |
|  | - | G 3/4 | G 3/4 | G 1/2 | - | - | - | - | - | R412009277 |
| | | G 3/4 | G 3/4 | | | | | | | R412009286 |
| | | G 1 | G 1 | | | | | | | R412009282 |
| | | G 1 | G 1 | | | | | | | R412009287 |

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Filling unit, electrically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection**

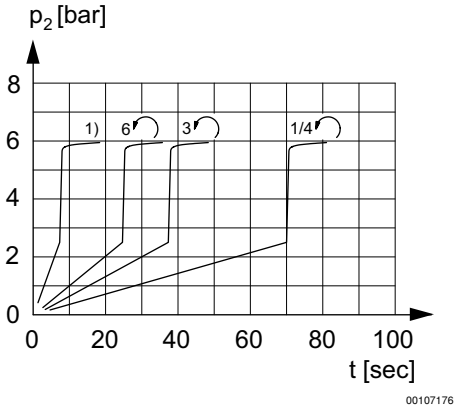
| | MO | Compressed air connection | | | Operating voltage | | | Power consumption | Holding power | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | |
| | | | | | | | | [W] | [VA] | |
|  | | G 3/4 | G 3/4 | | 24 V | - | - | 2 | - | R412009278 |
| | | G 3/4 | G 3/4 | | - | 110 V | 110 V | - | 1.6 | R412009279 |
| | | G 3/4 | G 3/4 | | - | 220 V | 230 V | - | 1.6 | R412009280 |
| | | G 1 | G 1 | G 1/2 | 24 V | - | - | 2 | - | R412009378 |
| | | G 1 | G 1 | | 24 V | - | - | 2 | - | R412009283 |
| | | G 1 | G 1 | | - | 110 V | 110 V | - | 1.6 | R412009284 |
| | | G 1 | G 1 | | - | 220 V | 230 V | - | 1.6 | R412009285 |

| Part No. | Holding power | Switch-on power | Switch-on power | Electr. connection | Weight | Fig. | Note |
|---|---|---|---|---|---|---|---|
| | AC 60 Hz | AC 50 Hz | AC 60 Hz | Pilot valve | | | |
| | [VA] | [VA] | [VA] | | [kg] | | |
| R412009277 | | | | | 0.889 | Fig. 1 | 2); 4); 9) |
| R412009286 | - | - | - | - | 0.895 | Fig. 2 | 2); 5); 9) |
| R412009282 | | | | | 0.889 | Fig. 1 | 2); 4); 9) |
| R412009287 | | | | | 0.895 | Fig. 2 | 2); 5); 9) |
| R412009278 | - | - | - | - | 0.924 | Fig. 3 | 6); 7); 8) |
| R412009279 | 1.4 | 2.2 | 1.6 | - | 0.924 | Fig. 3 | 6); 7); 8) |
| R412009280 | 1.4 | 2.2 | 1.6 | - | 0.924 | Fig. 3 | 6); 7); 8) |
| R412009378 | - | - | - | Plug M12x1 | 0.9 | Fig. 4 | 1); 3); 6) |
| R412009283 | - | - | - | - | 0.924 | Fig. 3 | 6); 7); 8) |
| R412009284 | 1.4 | 2.2 | 1.6 | - | 0.924 | Fig. 3 | 6); 7); 8) |
| R412009285 | 1.4 | 2.2 | 1.6 | - | 0.924 | Fig. 3 | 6); 7); 8) |

1) With adjustment screw lock
2) Suitable for use in Ex zones 1, 2, 21, 22
3) with electrical connector
4) Basic valve without pilot valve
5) Basic valve without pilot valve, with CNOMO subbase
6) Basic valve with pilot valve
7) Protected against polarity reversal
8) Connector standard: ISO 15217
9) suitable for ATEX
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

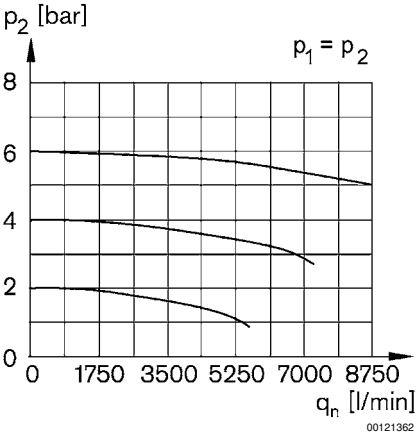
# Filling unit, electrically operated, Series AS5-SSU
**► G 3/4 - G 1 ► pipe connection**

## Secondary pressure while filling




adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

## Flow rate characteristic

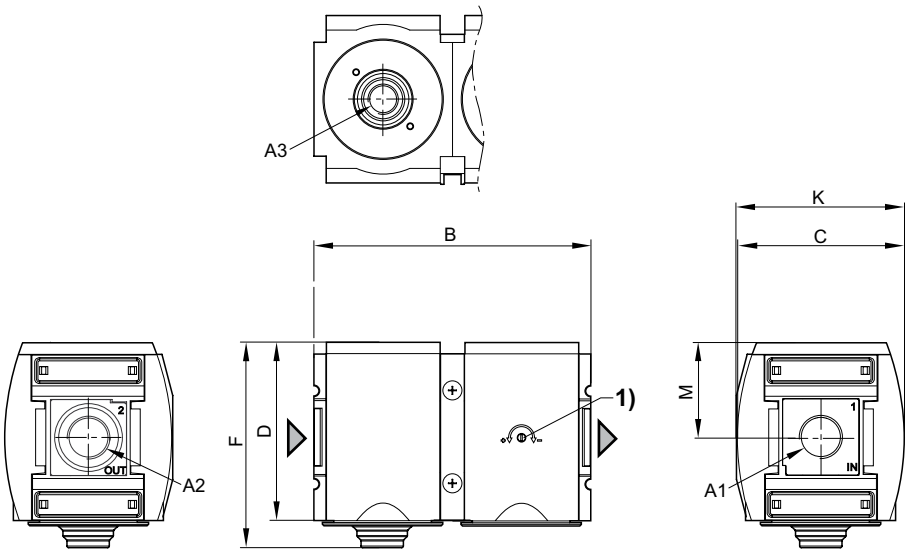



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
Adjustment screw for filling time

# Filling unit, electrically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection**

**Fig. 1: Filling unit without pilot valve with porting configuration for series DO16**



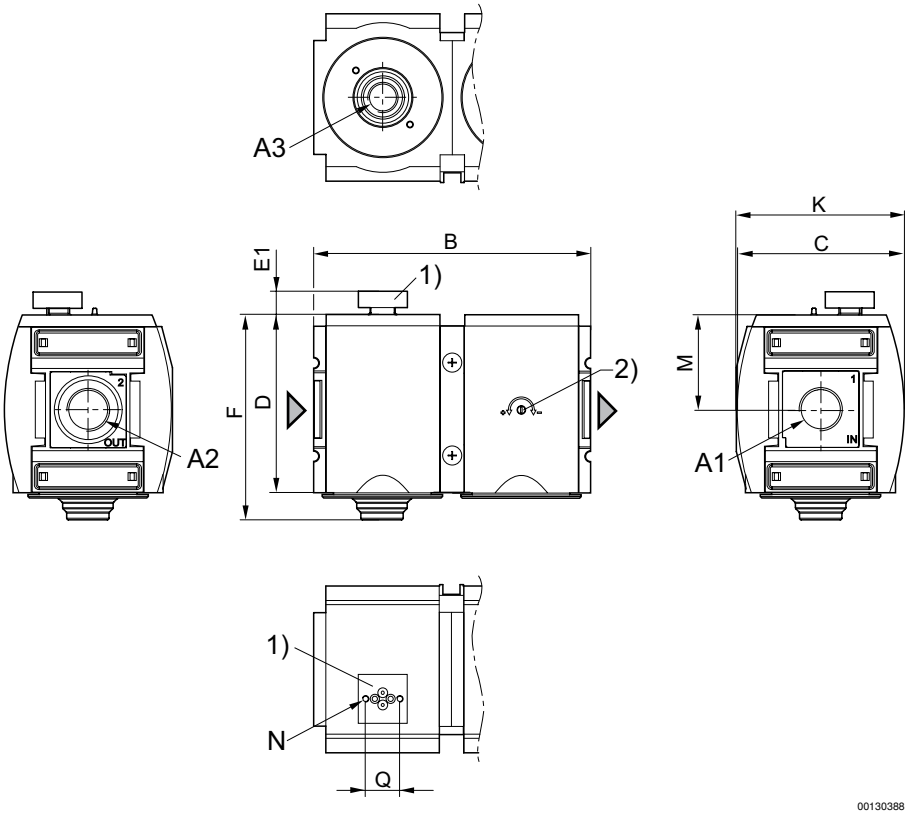

A1 = input
A2 = output
A3 = ventilation port
1) Adjustment screw for filling time

| A1 | A2 | A3 | B | C | D | F | K | M | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | 170 | 103 | 109 | 125 | 103.5 | 58 | | | | | |
| G 1 | G 1 | G 1/2 | 170 | 103 | 109 | 125 | 103.5 | 58 | | | | | |

# Filling unit, electrically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection**

**Fig. 2: Filling unit with transition plate for pilot valve series DO30**



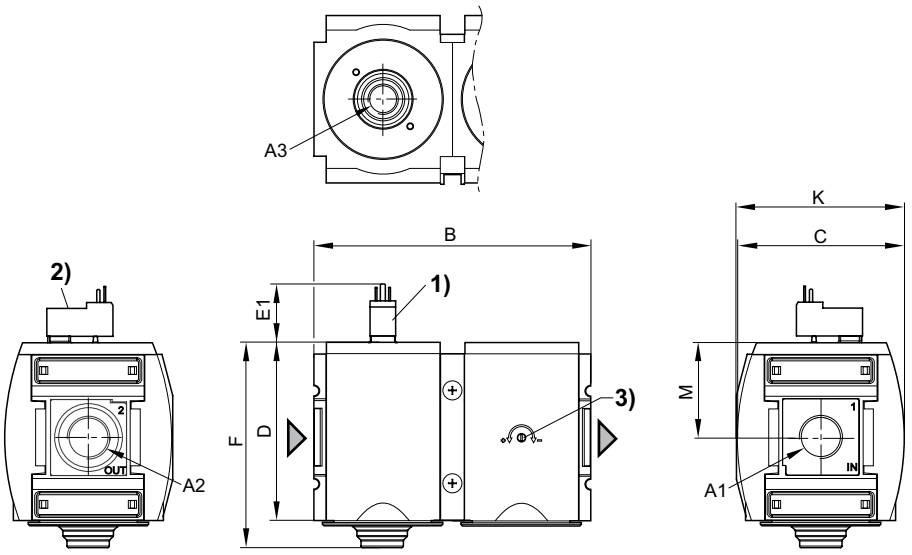

A1 = input
A2 = output
A3 = ventilation port
1) Transition plate with CNOMO porting configuration for pilot valve DO30
2) Adjustment screw for filling time

| A1 | A2 | A3 | B | C | D | E1 | F | K | M | N | Q | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | 170 | 103 | 109 | 14.2 | 125 | 103.5 | 58 | M4 | 21 | | |
| G 1 | G 1 | G 1/2 | 170 | 103 | 109 | 14.2 | 125 | 103.5 | 58 | M4 | 21 | | |

# Filling unit, electrically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection**

**Fig. 3: Filling unit with pilot valve and port for electrical connector form C**



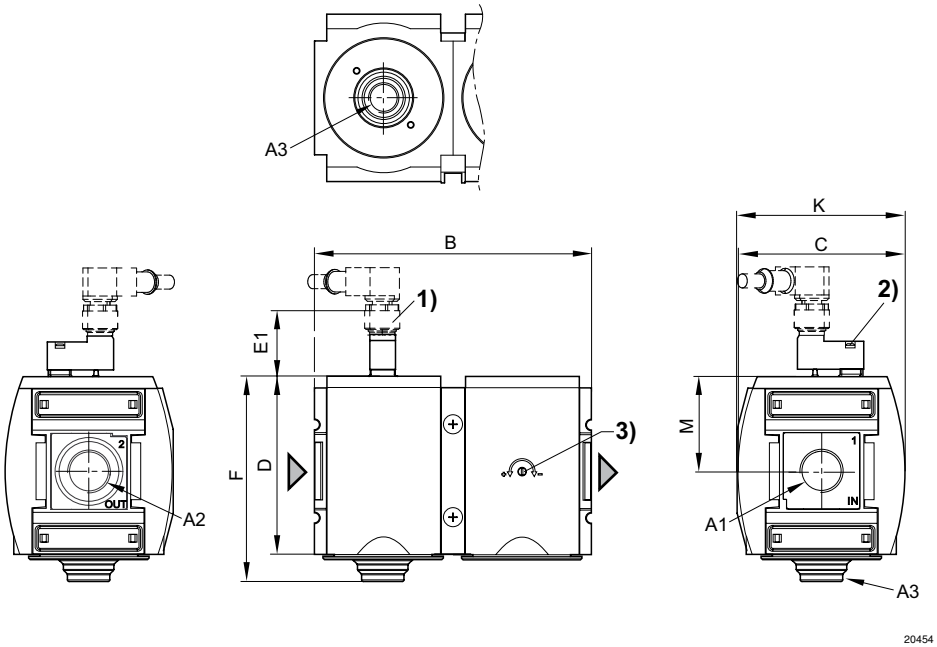

A1 = input
A2 = output
A3 = ventilation port
1) Port for electrical connector according to ISO 15217 (form C)
2) Manual override
3) Adjustment screw for filling time

| A1 | A2 | A3 | B | C | D | E1 | F | K | M | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | 170 | 103 | 109 | 25.1 | 125 | 103.5 | 58 | | | | |
| G 1 | G 1 | G 1/2 | 170 | 103 | 109 | 25.1 | 125 | 103.5 | 58 | | | | |

# Filling unit, electrically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection**

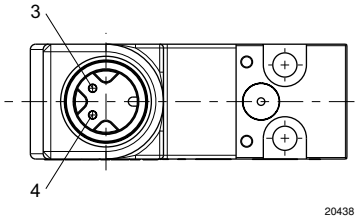
**Fig. 4: Filling unit with pilot valve, push-in fitting M12x1**




A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override
3) Adjustment screw for filling time

| A1 | A2 | A3 | B | C | D | E1 | F | M | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1 | G 1 | G 1/2 | 170 | 103 | 109 | 39 | 125 | 58 | | | | | |

**Pin assignment M12x1**




3: +/-
4: +/-

# Filling unit, electrically operated, Series AS5-SSU

**► Poppet valve with elect. priority circuit, Increased flow rate 2►3 ► G 1 ► pipe connection ► Electr. connection: Plug, M12x1**

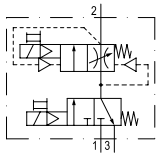
00133685_a

| | |
|---|---|
| Parts | 3/2-directional valve, electrically operated, Filling valve with elect. priority circuit |
| Version | Poppet valve, Can be assembled into blocks |
| Nominal flow | 8750 l/min |
| Nominal flow, 1►2 | 8750 l/min |
| Nominal flow, 2►3 | 3700 l/min |
| Working pressure min./max. | 3 bar / 9 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class, with Plug Mounted | IP65 |
| Duty cycle | 100 % |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.
- Rear exhaust flow rate 2►3 substantially increased
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

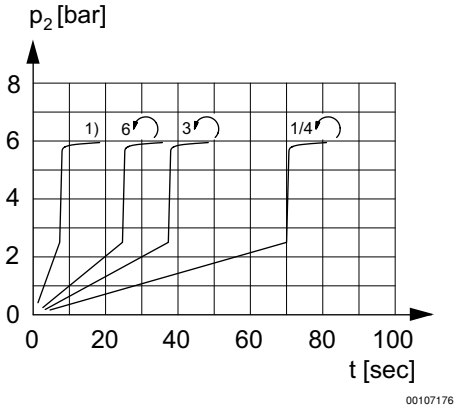
| Operating voltage | Power consumption |
|---|---|
| DC | DC |
| | W |
| 24 V | 2 |

| | MO | Compressed air connection | | | Operating voltage | Power consumption | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | DC | DC | | |
| | | | | | | [W] | [kg] | |
|  |  | G 1 | G 1 | G 1/2 | 24 V | 2 | 0.924 | R412009381 |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | | | | |

# Filling unit, electrically operated, Series AS5-SSU

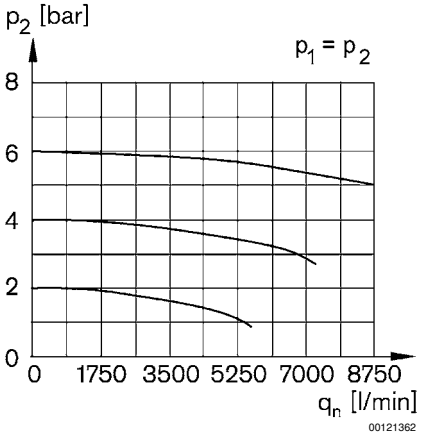
**► Poppet valve with elect. priority circuit, Increased flow rate 2►3 ► G 1 ► pipe connection ► Electr. connection: Plug, M12x1**

## Secondary pressure while filling




adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

## Flow rate characteristic

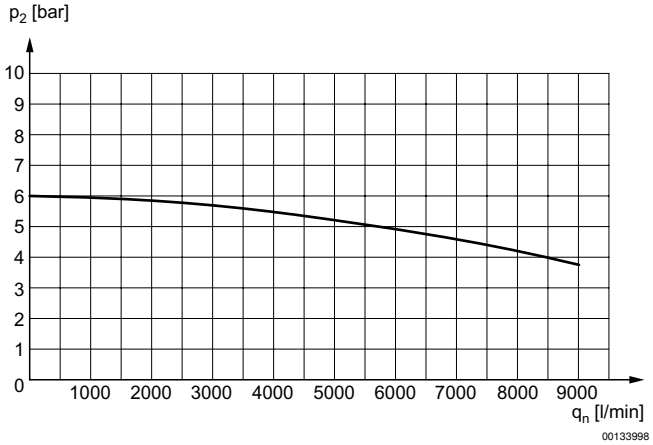



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Filling unit, electrically operated, Series AS5-SSU

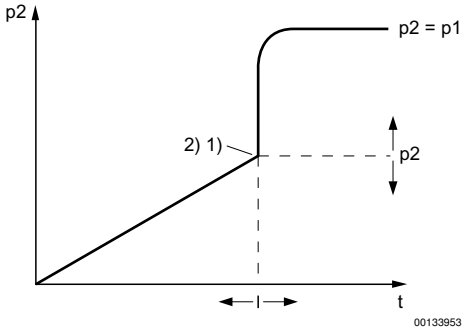
**► Poppet valve with elect. priority circuit, Increased flow rate 2►3 ► G 1 ► pipe connection ► Electr. connection: Plug, M12x1**

## Rear exhaust, 2 → 3




p2 = secondary pressure
qn = nominal flow

## Start function

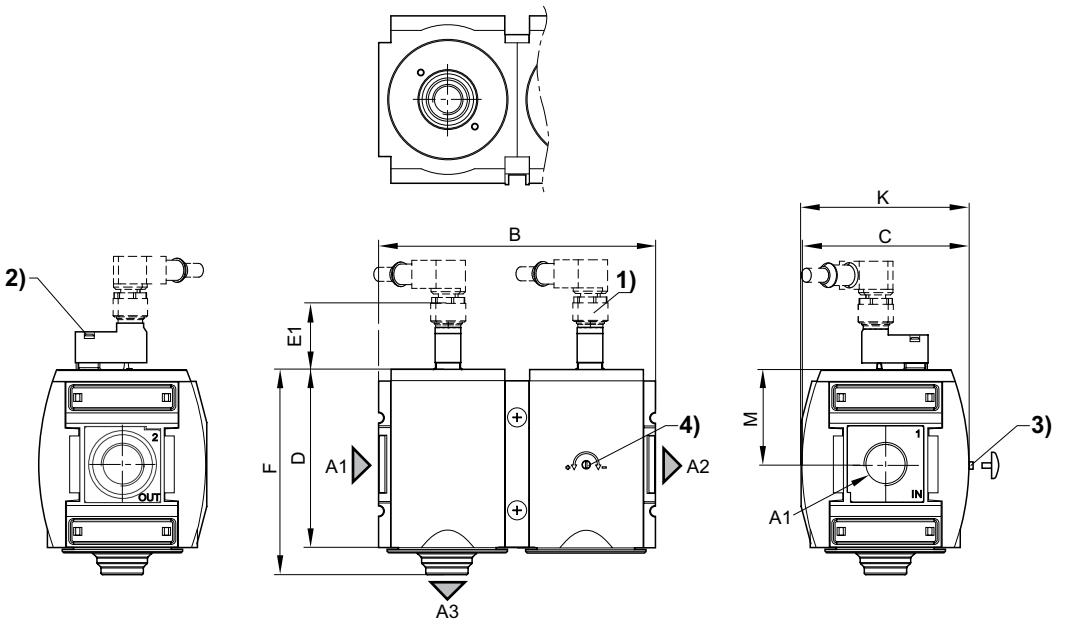



p1 = working pressure
p2 = output pressure
t = filling time
1) Switching point
2) adjustable filling time and change-over pressure

# Filling unit, electrically operated, Series AS5-SSU

**► Poppet valve with elect. priority circuit, Increased flow rate 2►3 ► G 1 ► pipe connection ► Electr. connection: Plug, M12x1**

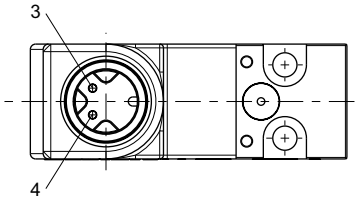
## Dimensions




A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override
3) Adjustment screw lock
4) Adjustment screw for filling time

| A1 | A2 | A3 | B | C | D | E1 | F | K | M | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1 | G 1 | G 1/2 | 170 | 103 | 109 | 39 | 125 | 103.5 | 58 | | | | |

## Pin assignment M12x1




3: +/-
4: +/-

# Filling unit, pneumatically operated, Series AS5-SSU

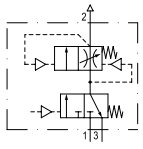
**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

00128867

| | |
|---|---|
| Parts | 3/2-directional valve, pneumatically operated, Filling valve |
| Version | Poppet valve, Can be assembled into blocks |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Control pressure min./max. | 3 bar / 16 bar |
| Max. particle size | 40 µm |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
- Suitable for use in Ex zones 1, 2, 21, 22

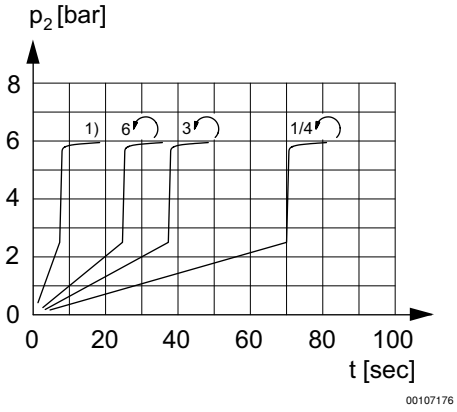
| | Pilot connection | Port | Exhaust | Qn | | | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | 1►2 | 2►3 | | | |
| | | | | | | [l/min] | [kg] | | |
|  | G 1/8 | G 3/4 | G 1/2 | 8750 | 8750 | 3700 | 0.924 | - | R412009276 |
| | | G 1 | | | | | | - | R412009281 |
| | | G 1 | | | | | | 1) | R412009289 |

1) With adjustment screw lock
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filling unit, pneumatically operated, Series AS5-SSU

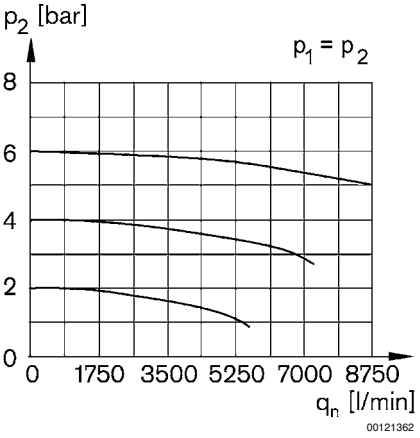
**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

## Secondary pressure while filling




adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

## Flow rate characteristic

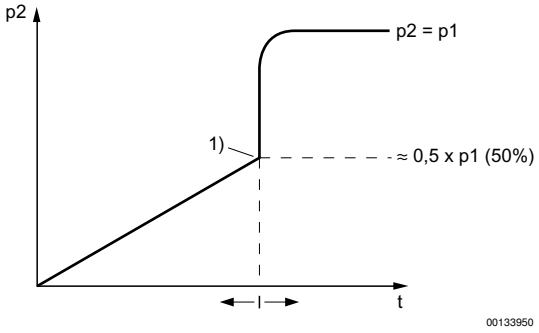



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Filling unit, pneumatically operated, Series AS5-SSU

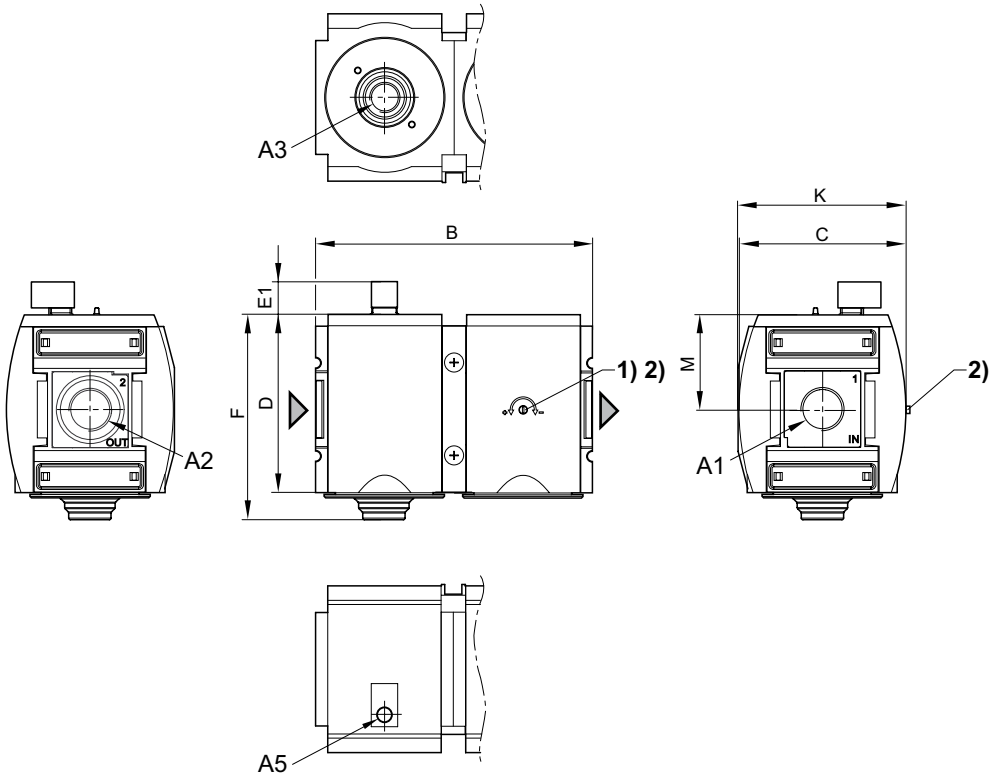
**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

## Start function




p1 = working pressure
p2 = output pressure
t = adjustable filling time
1) Switching point

## Dimensions




A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock

## Filling unit, pneumatically operated, Series AS5-SSU

**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

| A1 | A2 | A3 | A5 | B | C | D | E1 | F | K | M | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | G 1/8 | 170 | 103 | 109 | 20.2 | 125 | 103.5 | 58 | | | |
| G 1 | G 1 | G 1/2 | G 1/8 | 170 | 103 | 109 | 20.2 | 125 | 103.5 | 58 | | | |

# Filling unit, pneumatically operated, Series AS5-SSU

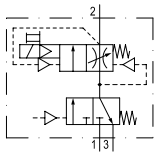
**► Poppet valve with elect. priority circuit ► G 1 ► pipe connection**

00134310_a

| | |
|---|---|
| Parts | 3/2-directional valve, pneumatically operated, Filling valve with elect. priority circuit |
| Version | Poppet valve, Can be assembled into blocks |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Control pressure min./max. | 3 bar / 16 bar |
| Max. particle size | 25 µm |
| Protection class,withPlug | IP65 |
| Duty cycle | 100 % |
| | |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

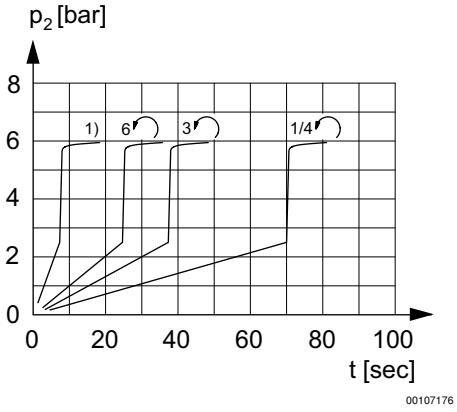
| | Pilot connection | Port | Exhaust | Qn | | | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1►2 | 2►3 | | |
| | | | | | | [l/min] | [kg] | |
|  | G 1/8 | G 1 | G 1/2 | 8750 | 8750 | 3700 | 0.924 | R412009379 |

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Filling unit, pneumatically operated, Series AS5-SSU

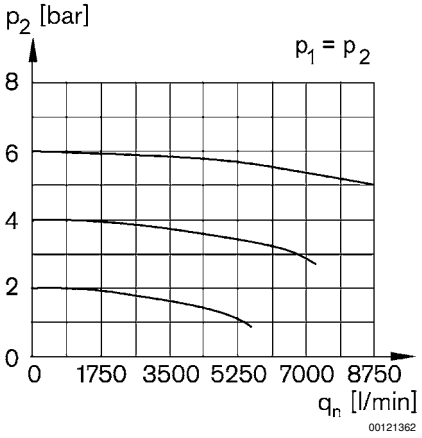
**► Poppet valve with elect. priority circuit ► G 1 ► pipe connection**

## Secondary pressure while filling




adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

## Flow rate characteristic

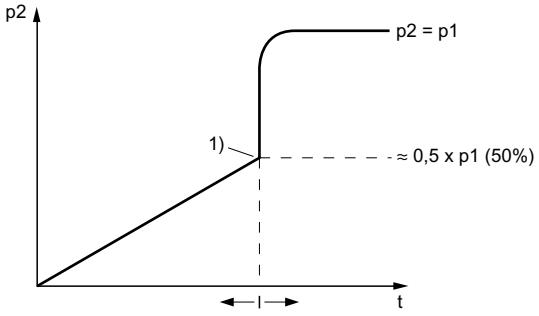



p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

# Filling unit, pneumatically operated, Series AS5-SSU

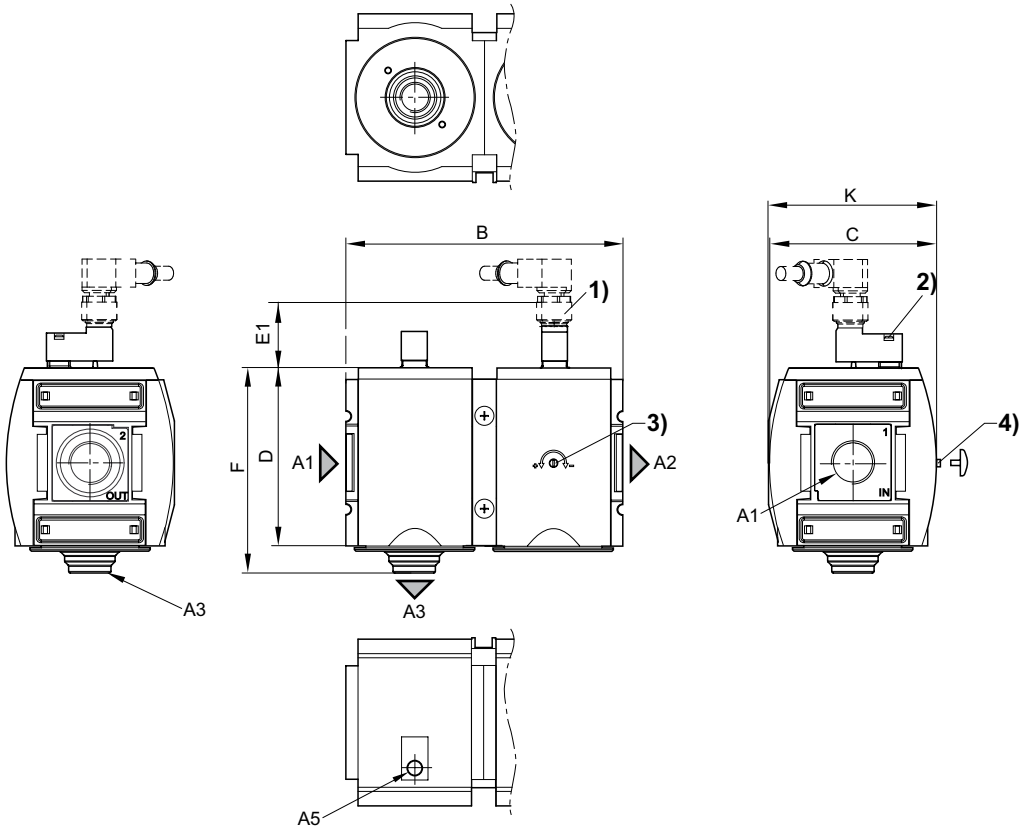
**► Poppet valve with elect. priority circuit ► G 1 ► pipe connection**

## Start function




p1 = working pressure
p2 = output pressure
1) t = filling time
1) Switching point

## Dimensions




20456

A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection
1) plug M12
2) Manual override
3) Adjustment screw for filling time
4) Adjustment screw lock

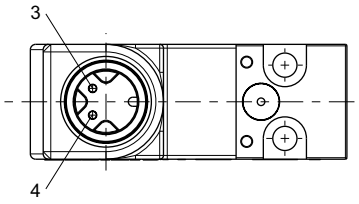
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Filling unit, pneumatically operated, Series AS5-SSU

**► Poppet valve with elect. priority circuit ► G 1 ► pipe connection**

| A1 | A2 | A3 | A5 | B | C | D | E1 | F | K | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1 | G 1 | G 1/2 | G 1/8 | 170 | 103 | 109 | 39 | 125 | 103.5 | | | | |

## Pin assignment M12x1




3: +/-
4: +/-

# Filling valve, pneumatically operated, Series AS5-SSV

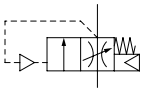
**► G 3/4 - G 1**

00128862

| | |
|---|---|
| Version | Poppet valve, Can be assembled into blocks |
| Working pressure min./max. | 3 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 40 µm |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

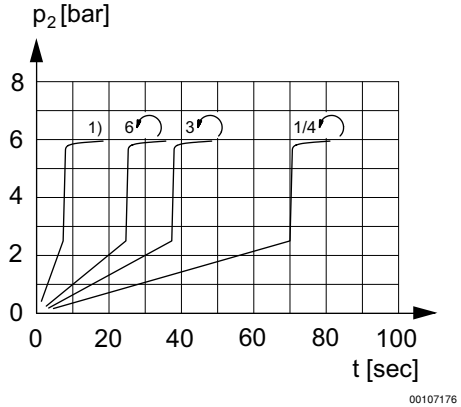
## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

| | Port | Qn [l/min] | Weight [kg] | Note | Part No. |
|---|---|---|---|---|---|
|  | G 3/4 | 10000 | 0.43 | 2); 3) | **R412009272** |
| | G 1 | | | 2); 3) | **R412009273** |
| | G 1 | | | 1) | R412009275 |

1) With adjustment screw lock
2) Suitable for use in Ex zones 1, 2, 21, 22
3) suitable for ATEX
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

## Secondary pressure while filling

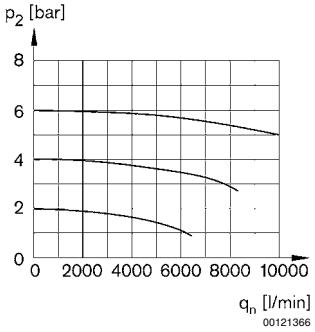



00107176

adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

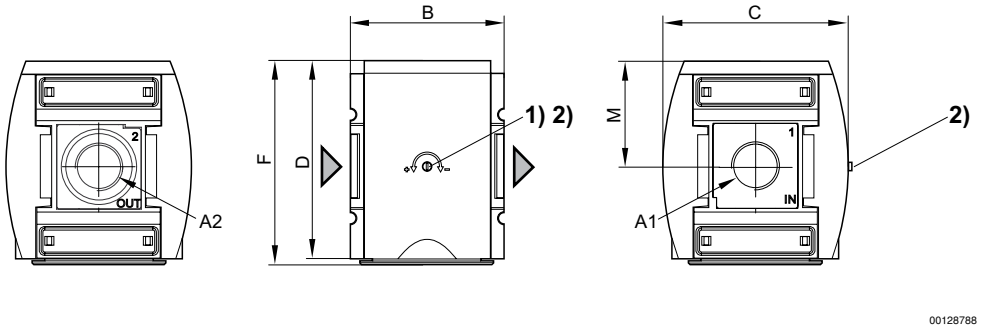
# Filling valve, pneumatically operated, Series AS5-SSV
**► G 3/4 - G 1**

## Flow rate characteristic




p2 = secondary pressure
qn = nominal flow

## Dimensions




A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock

| A1 | A2 | B | C | D | F | M | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | 85 | 103 | 109 | 112 | 58 | | | | | | | |
| G 1 | G 1 | 85 | 103 | 109 | 112 | 58 | | | | | | | |

# Filling valve, pneumatically operated, Series AS5-SSV

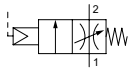
**► External pneumatic control ► G 3/4 - G 1 ► pipe connection**


IM0046373

| | |
|---|---|
| Version | Poppet valve, Can be assembled into blocks |
| Working pressure min./max. | See table below |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 40 µm |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

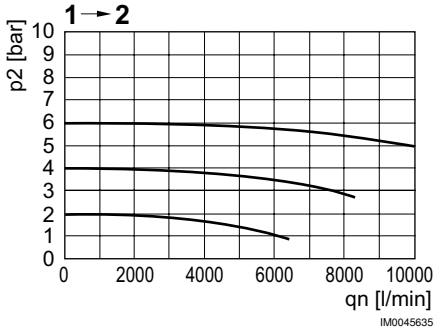
## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

| | Pilot connection | Port | Qn | Working pressure min./max. | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | | 1►2 | | | |
| | | | [l/min] | [bar] | [kg] | |
|  | G 1/8 | G 3/4 | 10000 | 1 / 16 | 1 | R412009311 |
| | | G 1 | | 2.5 / 16 | | R412009312 |
| Nominal flow Qn at p1 = 6.3 bar and Δp = 1 bar | | | | | | |



## Flow rate characteristic



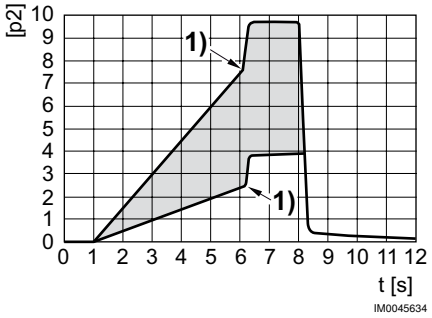

IM0045635

p2 = secondary pressure
qn = nominal flow

# Filling valve, pneumatically operated, Series AS5-SSV

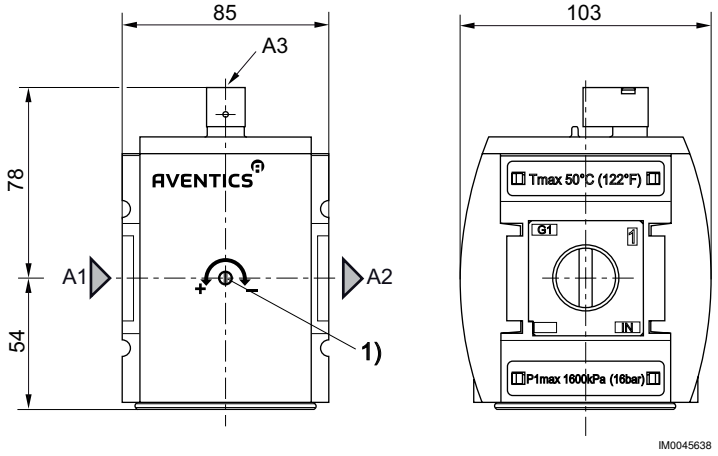
**► External pneumatic control ► G 3/4 - G 1 ► pipe connection**

## Start function




1) Switching point, can be freely selected
p2 = output pressure

## Dimensions




A1 = input
A2 = output
A3 = control pressure connection
1) Adjustment screw for filling time

# Filling valve, pneumatically operated, Series AS5-SSV

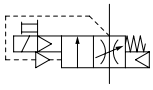
**► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector ► G 3/4 - G 1**

00133687_a

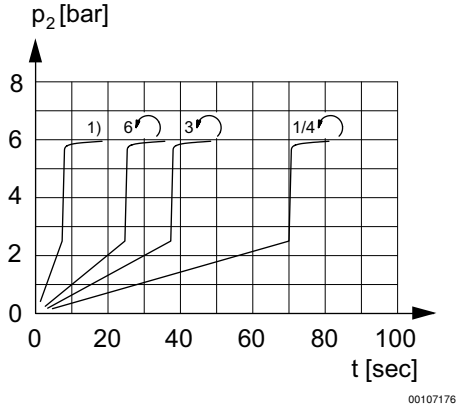
| | |
|---|---|
| Version | Poppet valve with elect. priority circuit, Can be assembled into blocks |
| Working pressure min./max. | 3 bar / 10 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class,withPlug | IP65 |
| Einschaltdauer | 100 % |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
- Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.
- Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

| | | Port | Qn | Weight | Part No. |
|---|---|---|---|---|---|
| | | | [l/min] | [kg] | |
|  |  | G 3/4<br>G 1 | 10000 | 0.43 | R412009373<br>R412009374 |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | |

## Secondary pressure while filling



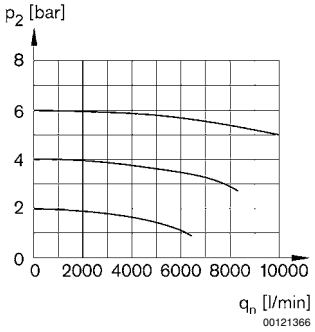

00107176

adjustable filling
1) Fully opened
p2 = secondary pressure
t = fill time

# Filling valve, pneumatically operated, Series AS5-SSV

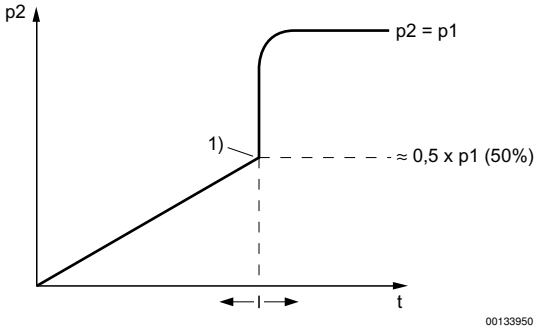
**► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector ► G 3/4 - G 1**

## Flow rate characteristic



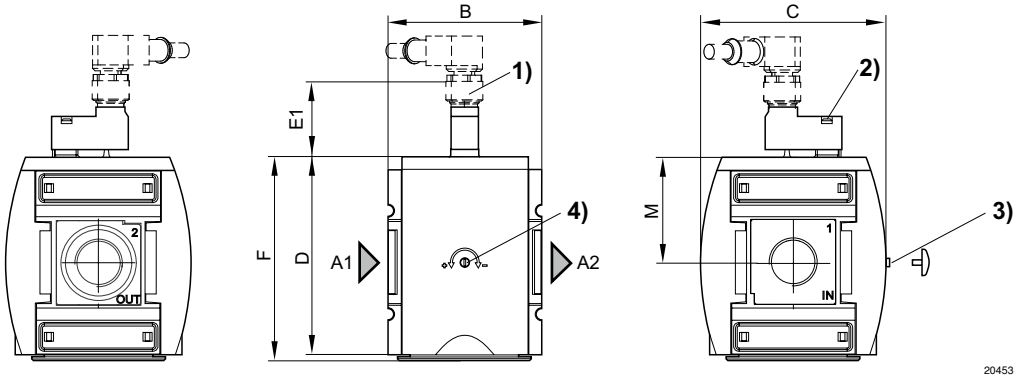

p2 = secondary pressure
qn = nominal flow

## Start function




p2 = output pressure
t = filling time
1) Switching point

## Dimensions



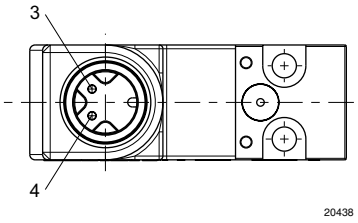

A1 = input
A2 = output
1) plug M12
2) Manual override
3) Adjustment screw for filling time
4) Adjustment screw lock

# Filling valve, pneumatically operated, Series AS5-SSV

**► Poppet valve with elect. priority circuit, Electr. connection: M12x1 electrical connector ► G 3/4 - G 1**

| A1 | A2 | B | C | D | E1 | F | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | 85 | 103 | 109 | 39 | 112 | 58 | | | | | | |
| G 1 | G 1 | 85 | 103 | 109 | 39 | 112 | 58 | | | | | | |

## Pin assignment M12x1




3: +/-
4: +/-

# 2/2-directional valve, electrically operated, Series AS5-SOV

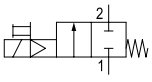
**► G 1 ► pipe connection ► Electr. connection: Plug, ISO 15217, form C**

00133928_a

| | |
|---|---|
| Version | Poppet valve, Can be assembled into blocks |
| Nominal flow | 12500 l/min |
| Working pressure min./max. | 3 bar / 10 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10°C / +50°C |
| Ambient temperature min./max. | -10°C / +50°C |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class, with Plug Mounted | IP65 |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

| Technical Remarks |
|---|
| ■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C. |

| Operating voltage | Power consumption |
|---|---|
| DC | DC |
| | W |
| 24 V | 2 |

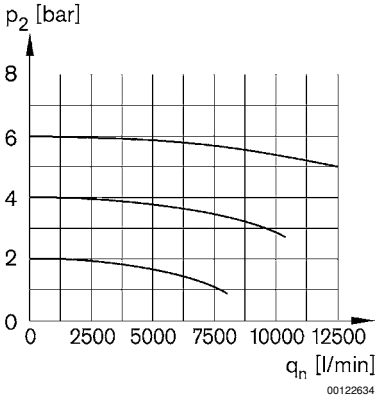
| | MO | Compressed air connection | | Operating voltage | Power consumption | Weight | Part No. |
|---|---|---|---|---|---|---|---|
| | | Input | Output | DC | DC | | |
| | | | | | [W] | [kg] | |
|  |  | G 1 | G 1 | 24 V | 2 | 1.14 | R412009301 |

Basic valve with pilot valve
Protected against polarity reversal
Connector standard: ISO 15217
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# 2/2-directional valve, electrically operated, Series AS5-SOV

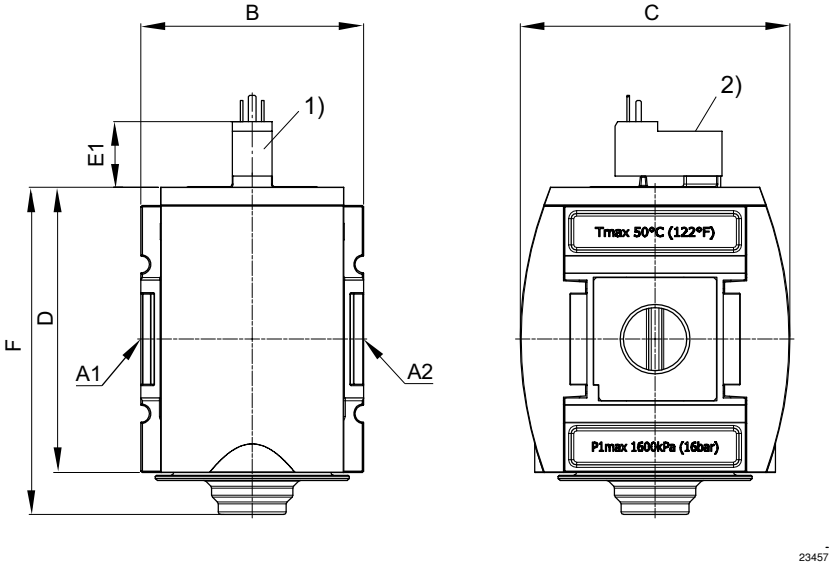
**► G 1 ► pipe connection ► Electr. connection: Plug, ISO 15217, form C**

## Flow rate characteristic




p2 = secondary pressure
qn = nominal flow

## Dimensions




A1 = input
A2 = output
1) Port for electrical connector according to ISO 15217 (form C)
2) Manual override

| A1 | A2 | B | C | D | E1 | F | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1 | G 1 | 85 | 103 | 109 | 25.1 | 125 | | | | | | | |

# 3/2-directional valve, electrically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► ATEX optional**

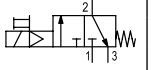
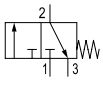
IM0046156

| | |
|---|---|
| Version | Poppet valve, Can be assembled into blocks |
| Nominal flow | 12500 l/min |
| Nominal flow, 1►2 | 12500 l/min |
| Nominal flow, 2►3 | 3700 l/min |
| Working pressure min./max. | 3 bar / 10 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10°C / +50°C |
| Ambient temperature min./max. | -10°C / +50°C |
| Sealing principle | Soft sealing |
| Max. particle size | 5 µm |
| Protection class, with Plug Mounted | See table below |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- ATEX optional: The ATEX ID depends on the selected pilot valve.

| Operating voltage | | | Power consumption | Switch-on power | | Holding power | |
|---|---|---|---|---|---|---|---|
| DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz | AC 60 Hz |
| | | | W | VA | VA | VA | VA |
| 24 V | - | - | 2 | - | - | - | - |
| - | 110 V | 110 V | - | 2.2 | 1.6 | 1.6 | 1.4 |
| - | 220 V | 230 V | - | 2.2 | 1.6 | 1.6 | 1.4 |

| | MO | Compressed air connection | | | Operating voltage | | | Power consumption | Holding power | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | |
| | | | | | | | | [W] | [VA] | |
|  |  | G 3/4 | G 3/4 | G 1/2 | 24 V | - | - | 2 | - | **R412009265** |
| | | G 3/4 | G 3/4 | | - | 110 V | 110 V | - | 1.6 | R412009266 |
| | | G 3/4 | G 3/4 | | - | 220 V | 230 V | - | 1.6 | R412009267 |
| | | G 1 | G 1 | | 24 V | - | - | 2 | - | **R412009269** |
| | | G 1 | G 1 | | - | 110 V | 110 V | - | 1.6 | R412009270 |
| | | G 1 | G 1 | | - | 220 V | 230 V | - | 1.6 | R412009271 |
| | | G 1 | G 1 | | 24 V | - | - | 2 | - | **R412009376** |
|  | - | G 3/4 | G 3/4 | G 1/2 | - | - | - | - | - | R412009264 |
| | | G 3/4 | G 3/4 | | | | | | | **R412009258** |
| | | G 1 | G 1 | | | | | | | **R412009268** |
| | | G 1 | G 1 | | | | | | | R412009259 |

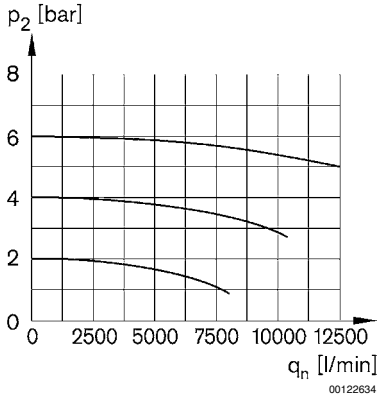
# 3/2-directional valve, electrically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► ATEX optional**

| Part No. | Holding power | Switch-on power | Switch-on power | Protection class | Electr. connection | Weight | Fig. | Note |
|---|---|---|---|---|---|---|---|---|
| | AC 60 Hz | AC 50 Hz | AC 60 Hz | | Pilot valve | | | |
| | [VA] | [VA] | [VA] | | | [kg] | | |
| **R412009265** | - | - | - | | Plug ISO 15217, form C | 0.677 | Fig. 3 | 2); 5); 6) |
| R412009266 | 1.4 | 2.2 | 1.6 | | Plug ISO 15217, form C | 0.677 | Fig. 3 | 2); 5); 6) |
| R412009267 | 1.4 | 2.2 | 1.6 | | Plug ISO 15217, form C | 0.677 | Fig. 3 | 2); 5); 6) |
| **R412009269** | - | - | - | IP65 | Plug ISO 15217, form C | 0.677 | Fig. 3 | 2); 5); 6) |
| R412009270 | 1.4 | 2.2 | 1.6 | | Plug ISO 15217, form C | 0.677 | Fig. 3 | 2); 5); 6) |
| R412009271 | 1.4 | 2.2 | 1.6 | | Plug ISO 15217, form C | 0.677 | Fig. 3 | 2); 5); 6) |
| **R412009376** | - | - | - | | Plug M12x1 | 0.65 | Fig. 4 | 2) |
| R412009264 | | | | | | 0.641 | Fig. 1 | 1); 3) |
| **R412009258** | - | - | - | - | - | 0.62 | Fig. 2 | 1); 4) |
| **R412009268** | | | | | | 0.641 | Fig. 1 | 1); 3) |
| R412009259 | | | | | | 0.62 | Fig. 2 | 1); 4) |

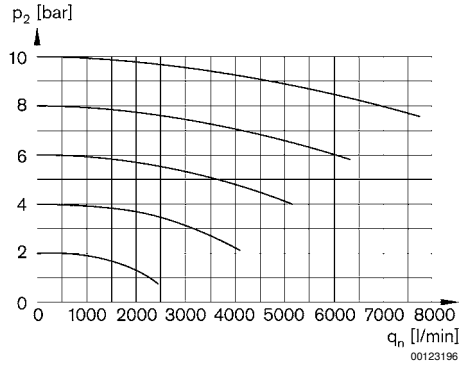
1) Suitable for use in Ex zones 1, 2, 21, 22
2) Basic valve with pilot valve
3) Basic valve without pilot valve
4) Basic valve without pilot valve, with CNOMO subbase
5) Protected against polarity reversal
6) Connector standard: ISO 15217
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

## Flow rate characteristic, 1 → 2




p2 = secondary pressure
qn = nominal flow

## Rear exhaust, 2 → 3

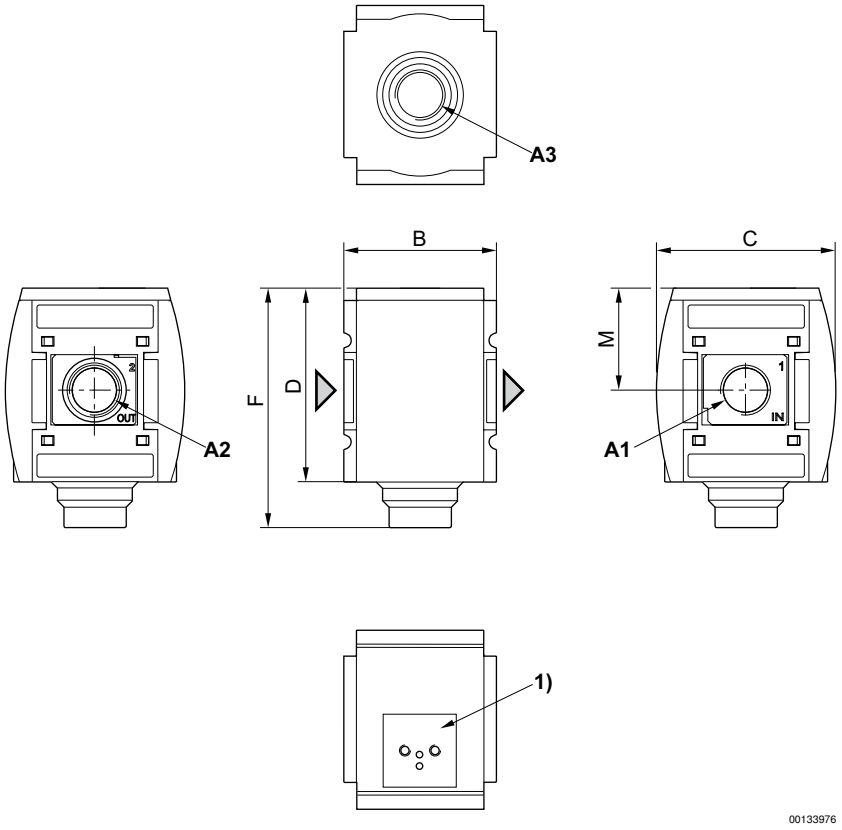



p2 = secondary pressure
qn = nominal flow

# 3/2-directional valve, electrically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► ATEX optional**

**Fig. 1: 3/2-directional valve without pilot valve with porting configuration for series DO16**



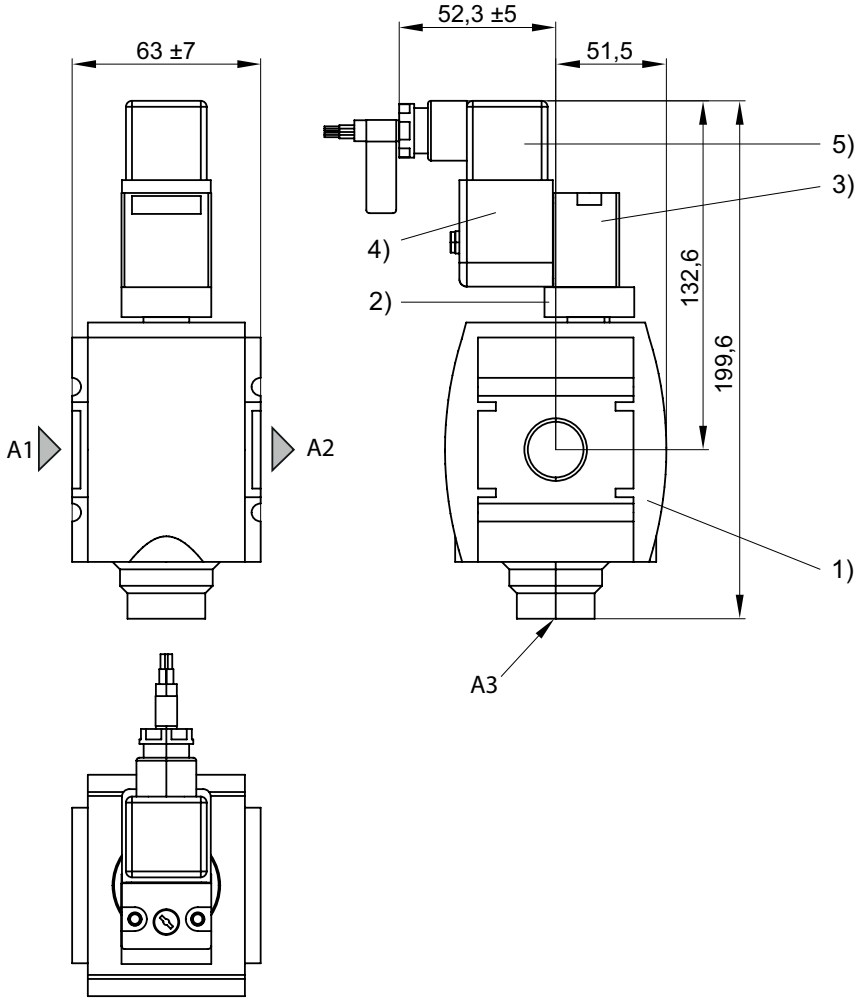

A1 = input
A2 = output
A3 = ventilation port
1) Porting configuration for pilot valve DO16

| A1 | A2 | A3 | B | C | D | F | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | 63 | 103 | 80 | 125 | 42.5 | | | | | | |
| G 1 | G 1 | G 1/2 | 63 | 103 | 80 | 125 | 42.5 | | | | | | |

## 3/2-directional valve, electrically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► ATEX optional**

**Fig. 2: 3/2 directional valve with transition plate (suitable for ATEX)**



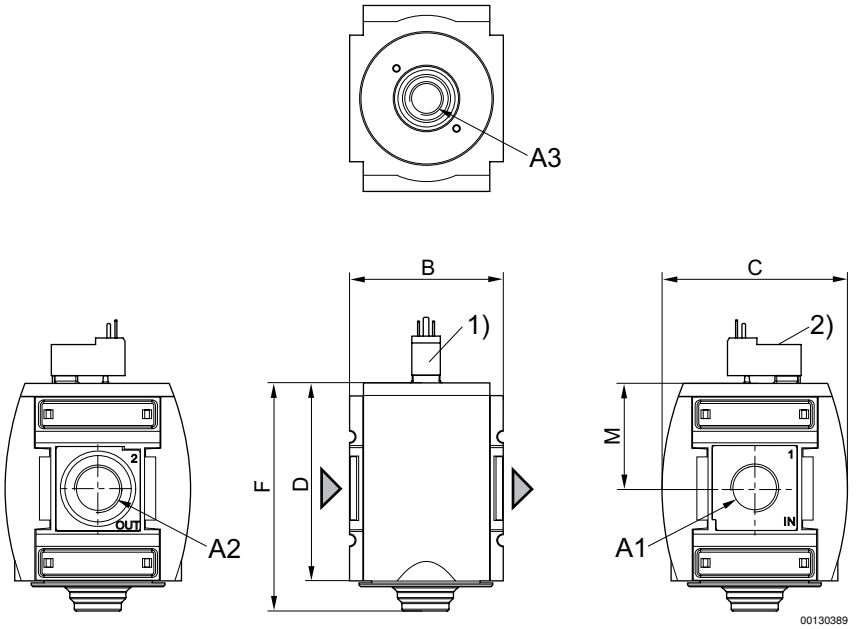

IM0046486

A1 = input
A2 = output
A3 = ventilation port
1) Shut-off valve
2) Transition plate
3) Pilot valve
4) Coil
5) Electrical connector
See accessories for pilot valve and coil

# 3/2-directional valve, electrically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► ATEX optional**

**Fig. 3: 3/2-directional valve with pilot valve and port for electrical connector form C**



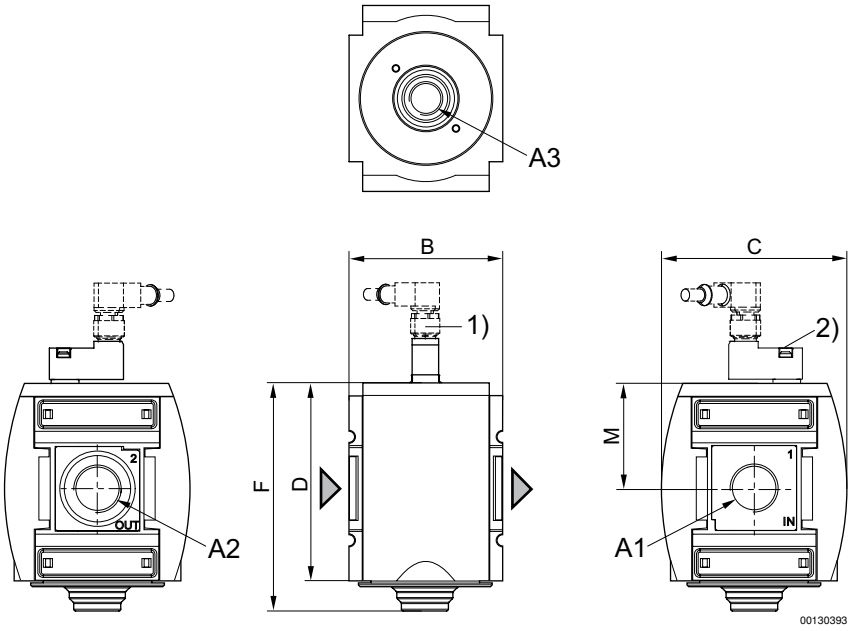

A1 = input
A2 = output
A3 = ventilation port
1) For electrical connector according to ISO 15217 (form C)
2) Manual override

| A1 | A2 | A3 | B | C | D | F | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | 85 | 103 | 109 | 125 | 58 | | | | | | |
| G 1 | G 1 | G 1/2 | 85 | 103 | 109 | 125 | 58 | | | | | | |

# 3/2-directional valve, electrically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► ATEX optional**

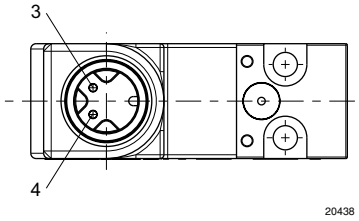
**Fig. 4: 3/2-directional valve with pilot valve, push-in fitting M12x1**




A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override

| A1 | A2 | A3 | B | C | D | F | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1 | G 1 | G 1/2 | 85 | 103 | 109 | 125 | 58 | | | | | | |

**Pin assignment M12x1**




3: +/-
4: +/-

# 3/2-directional valve, electrically operated, Series AS5-SOV-...-POS

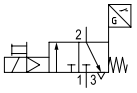
**► With integrated ST6 sensor, with position inquiry ► G 3/4 - G 1 ► Electr. connection: Plug, ISO 15217, form C**

00133928_d

| | |
|---|---|
| Version | Poppet valve, Can be assembled into blocks |
| Nominal flow | 12500 l/min |
| Nominal flow, 1►2 | 12500 l/min |
| Nominal flow, 2►3 | 3700 l/min |
| Working pressure min./max. | 3 bar / 10 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class, with Plug Mounted | IP65 |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

| Technical Remarks |
|---|
| ■ The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C. |
| ■ An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust). |
| ■ The sensor signal is visible on the front of the cover |

| Operating voltage | Power consumption |
|---|---|
| DC | DC |
| | W |
| 24 V | 2 |

| | MO | Compressed air connection | | | Operating voltage | Power consumption | Electr. connection | Cable length | Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | DC | DC | Sensor | Sensor | |
| | | | | | | [W] | | [m] | |
|  |  | G 3/4<br>G 1 | G 3/4<br>G 1 | G 1/2 | 24 V | 2 | without wire end ferrule, tin-plated | 3 | **R412009382**<br>**R412009388** |

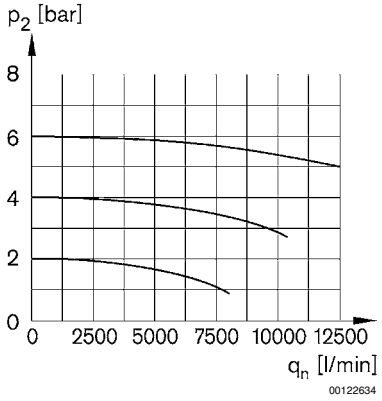
| Part No. | Weight |
|---|---|
| | |
| | [kg] |
| **R412009382**<br>**R412009388** | 0.459 |

Electronic sensor R412003658 included in scope of delivery (assembled).
For sensor connection, see the selection table.
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# 3/2-directional valve, electrically operated, Series AS5-SOV-...-POS

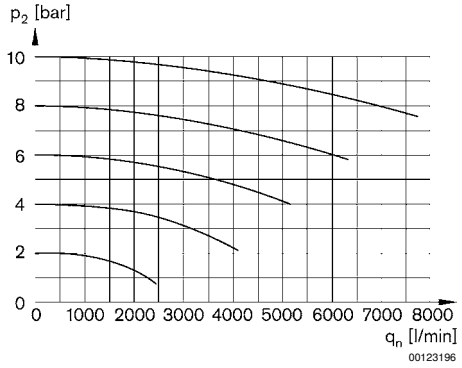
**► With integrated ST6 sensor, with position inquiry ► G 3/4 - G 1 ► Electr. connection: Plug, ISO 15217, form C**

## Flow rate characteristic



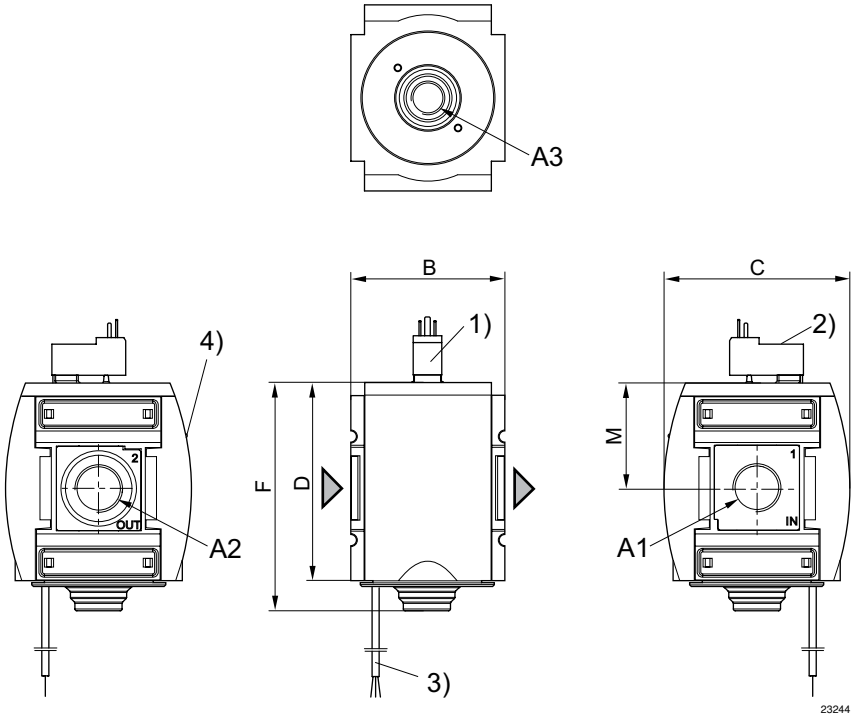

p2 = secondary pressure
qn = nominal flow

## Rear exhaust




p2 = secondary pressure
qn = nominal flow

## 3/2-directional valve with pilot valve and port for electrical connector form C




A1 = input
A2 = output
A3 = ventilation port
1) Electr. connection: electrical connector form C, ISO 15217
2) Manual override
3) For version with sensor: cable length 3 m PUR.
4) Optical switch status indicator

| A1 | A2 | A3 | B | C | D | F | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | 85 | 103 | 109 | 125 | 58 | | | | | | |
| G 1 | G 1 | G 1/2 | 85 | 103 | 109 | 125 | 58 | | | | | | |

# 3/2-directional valve, pneumatically operated, Series AS5-SOV

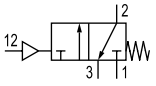
**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

00119377

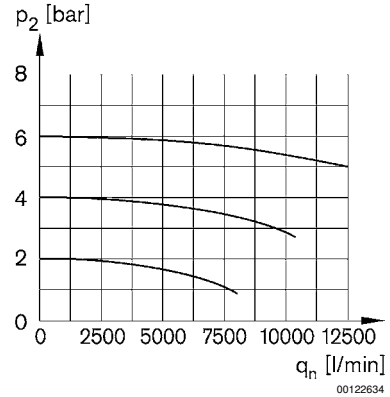
| | |
|---|---|
| Version | Poppet valve, Can be assembled into blocks |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10°C / +50°C |
| Ambient temperature min./max. | -10°C / +50°C |
| Sealing principle | Soft sealing |
| Control pressure min./max. | 3 bar / 16 bar |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22

| | Pilot connection | Port | Exhaust | Qn | | | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1►2 | 2►3 | | |
| | | | | | | [l/min] | [kg] | |
|  | G 1/8 | G 3/4<br>G 1 | G 1/2 | 12500 | 12500 | 3700 | 0.459 | R412009262<br>**R412009263** |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | | | | |

**Flow rate characteristic, 1 → 2**



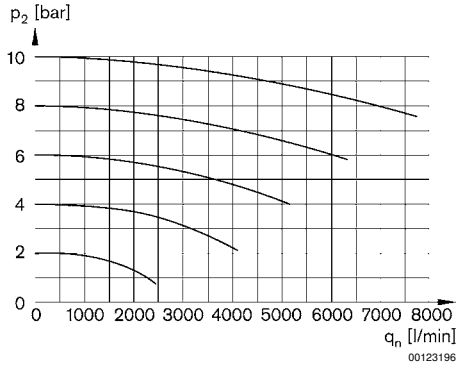

00122634

p2 = secondary pressure
qn = nominal flow

# 3/2-directional valve, pneumatically operated, Series AS5-SOV

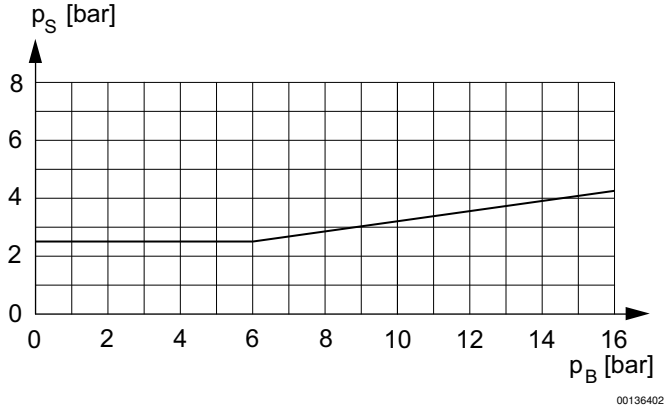
**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

## Rear exhaust, 2 → 3




p2 = secondary pressure
qn = nominal flow

## control pressure characteristic

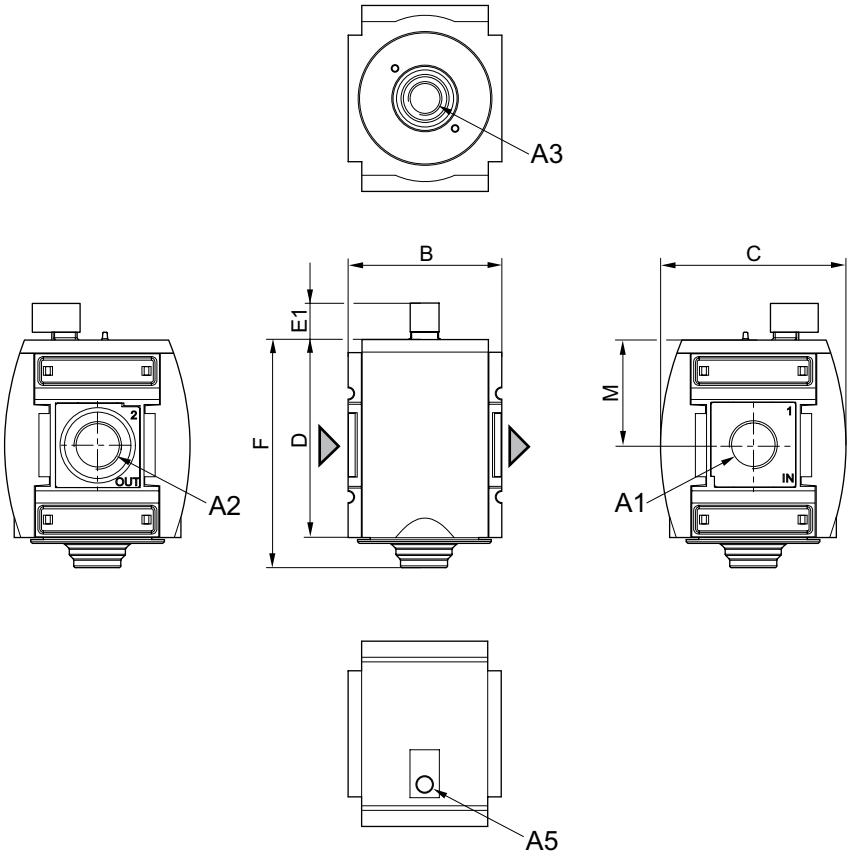



minimum pilot pressure depending on working pressure
PS = control pressure
$P_B$ = Working pressure

# 3/2-directional valve, pneumatically operated, Series AS5-SOV

**► G 3/4 - G 1 ► pipe connection ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection

| A1 | A2 | A3 | A5 | B | C | D | E1 | F | M | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 1/2 | G 1/8 | 85 | 103 | 109 | 20.2 | 125 | 58 | | | | |
| G 1 | G 1 | G 1/2 | G 1/8 | 85 | 103 | 109 | 20.2 | 125 | 58 | | | | |

# 3/2-shut-off valve, mechanically operated, Series AS5-BAV

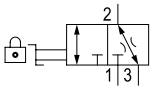
**► G 3/4 - G 1 ► suitable for ATEX**

00119805

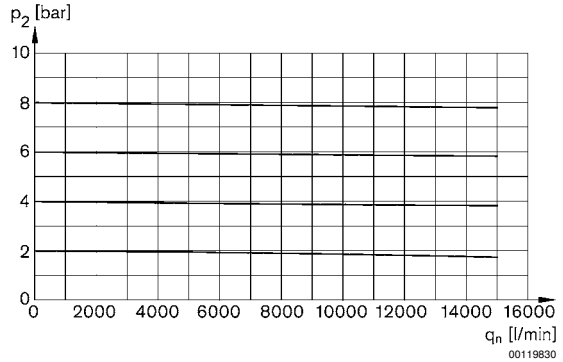
| | |
|---|---|
| Version | Ball valve, Can be assembled into blocks<br>for padlocks<br>lockable |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Actuating element+ | rotary switch |
| Sealing principle | metal/metal sealing |
| Max. particle size | 25 µm |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Polytetrafluorethylene |
| Threaded bushing | Die cast zinc |
| Actuating element+ | Polyoxymethylene |
| Locking base | Steel |

## Technical Remarks

- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- Suitable for use in Ex zones 1, 2, 21, 22

| | Port | Exhaust | Qn | | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | | 1►2 | 2►3 | | |
| | | | | [l/min] | [kg] | |
|  | G 3/4<br>G 1 | G 3/4 | 16000 | 3700 | 0.825 | **R412009260**<br>**R412009261** |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | | | | |

## Flow rate characteristic

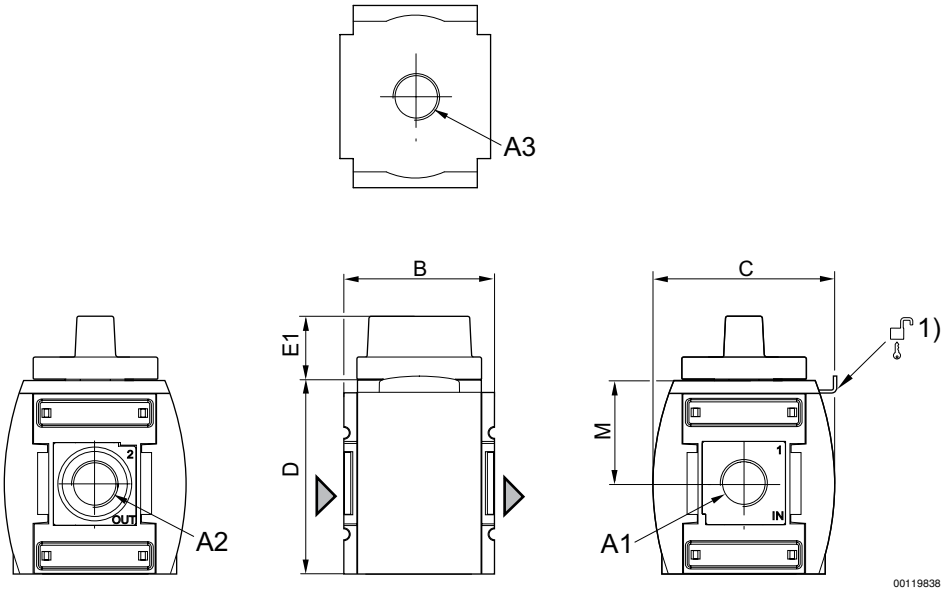



p2 = secondary pressure
qn = nominal flow

# 3/2-shut-off valve, mechanically operated, Series AS5-BAV

**► G 3/4 - G 1 ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = ventilation port
1) Mounting option for padlocks; max. shackle Ø 8

| A1 | A2 | A3 | B | C | D | E1 | M | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 3/4 | 85 | 103 | 109 | 36 | 58 | | | | | | |
| G 1 | G 1 | G 3/4 | 85 | 103 | 109 | 36 | 58 | | | | | | |

# Distributor, Series AS5-DIS

**► G 3/4 - G 1 ► Distributor 2x ► Distributor ► suitable for ATEX**

00119807

| | |
|---|---|
| Version | Distributor, Can be assembled into blocks |
| Mounting orientation | Any |
| Working pressure min./max. | 0 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

**Technical Remarks**

- Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)
- Suitable for use in Ex zones 1, 2, 21, 22

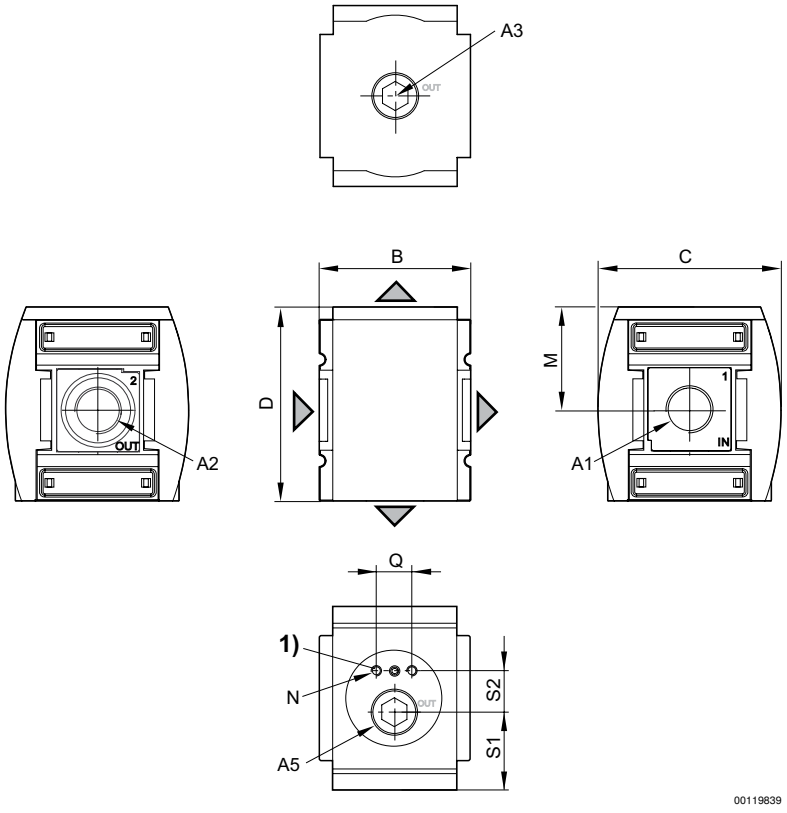
| | Port | Qn | | | Weight | Part No. |
|---|---|---|---|---|---|---|
| | | 1►2 | 1►3 | 1►5 | | |
| | | [l/min] | | | [kg] | |
|  | G 3/4 | 18000 | 8500 | 12000 | 0.648 | **R412009250** |
| | G 1 | | | | | **R412009251** |

Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

# Distributor, Series AS5-DIS

**► G 3/4 - G 1 ► Distributor 2x ► Distributor ► suitable for ATEX**

## Dimensions




A1 = input
A2 = output
A3 = output
A5 = output
1) Mounting thread for pressure sensor

| A1 | A2 | A3 | A5 | B | C | D | M | N | Q | S1 | S2 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | G 3/4 | G 3/4 | 85 | 103 | 109 | 58 | M5 | 20 | 44.5 | 22 | | |
| G 1 | G 1 | G 3/4 | G 3/4 | 85 | 103 | 109 | 58 | M5 | 20 | 44.5 | 22 | | |

# Distributor, Series AS5-DIN

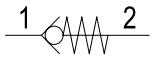
**► G 3/4 - G 1 ► Non-return valve ► suitable for ATEX**

00137944

| | |
|---|---|
| Version | Non-return valve, Can be assembled into blocks |
| Mounting orientation | Any |
| Working pressure min./max. | 0.4 bar / 16 bar |
| Medium | Compressed air<br>Neutral gases |
| Medium temperature min./max. | -10 °C / +50 °C |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Materials: | |
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

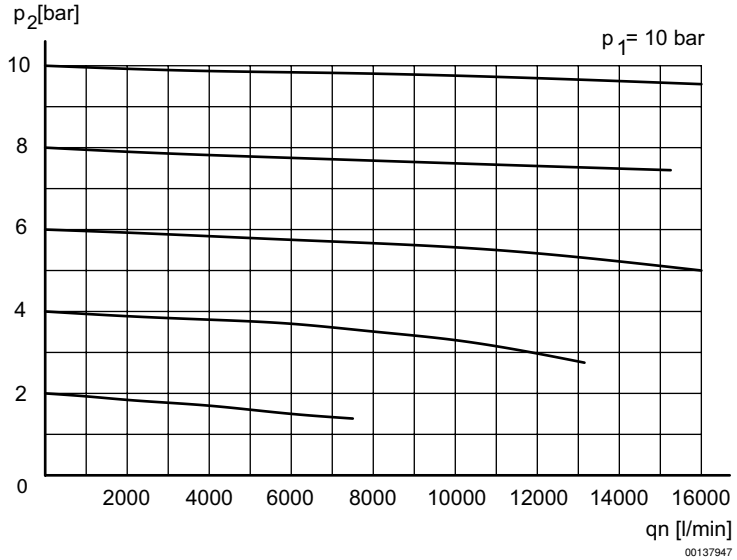
## Technical Remarks

- Suitable for use in Ex zones 1, 2, 21, 22

| | Port | Qn | Part No. |
|---|---|---|---|
| | | 1►2 | |
| | | [l/min] | |
|  | G 3/4<br>G 1 | 16000 | R412009252<br>R412009253 |
| Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar | | | |



## Flow rate characteristic



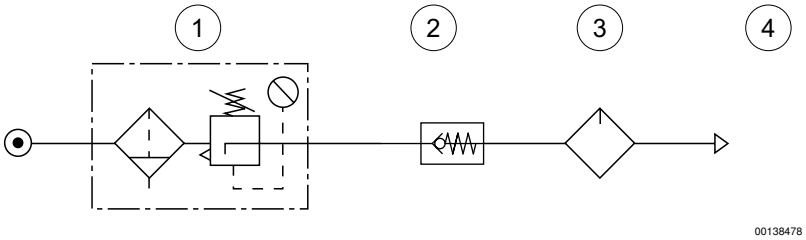

00137947

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

# Distributor, Series AS5-DIN

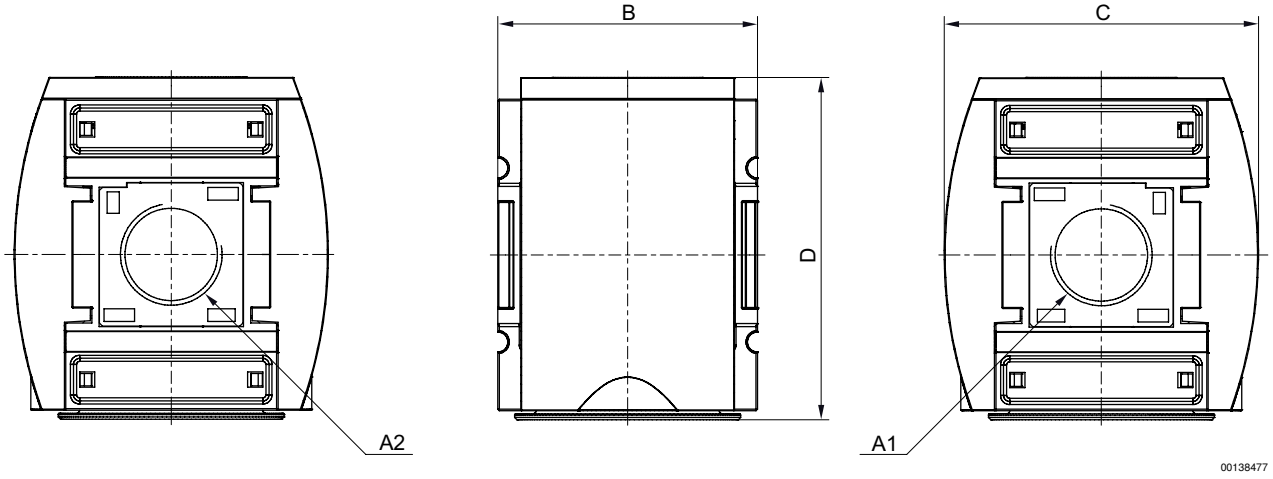
**► G 3/4 - G 1 ► Non-return valve ► suitable for ATEX**

## usage




1) Filter pressure regulator
2) Non-return valve
3) Lubricator
4) Compressed air

## Dimensions




A1 = input
A2 = output

| A1 | A2 | B | C | D | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 3/4 | G 3/4 | 85 | 103 | 112 | | | | | | | | | |
| G 1 | G 1 | 85 | 103 | 112 | | | | | | | | | |

# Series AS5
**Accessories**

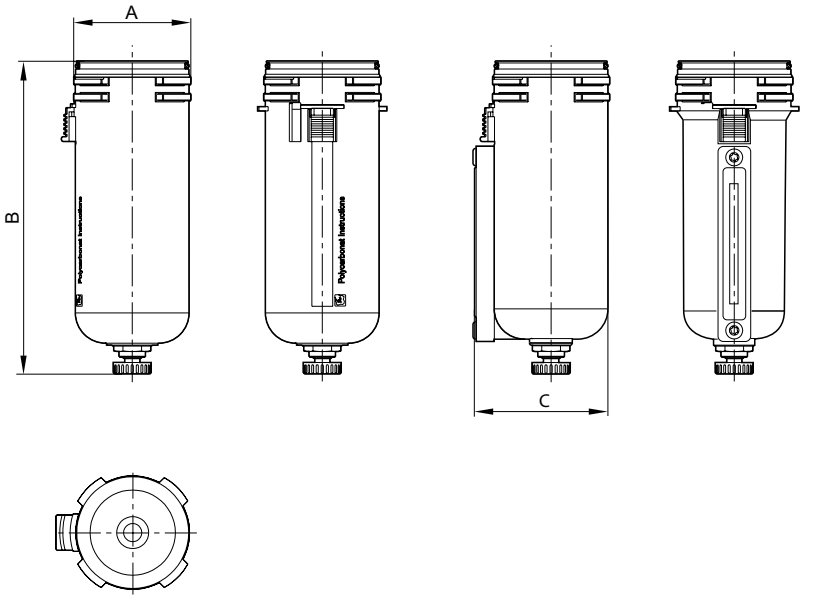
## Reservoir, Series AS5-CLS/ -CLP/ -CLC
**► for filters, pre-filters and microfilters ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX**


| | |
|---|---|
| Version | Reservoir |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Medium temperature min./max. | -10 °C / +50 °C |
| Working pressure min./max. | 16 bar |
| Medium | Compressed air |
| Filter reservoir volume | 87 cm³ |
| | |
| Materials: | |
| Seal | Acrylonitrile butadiene rubber |

| Condensate drain | Reservoir | Protective guard | Weight | Fig. | Part No. |
|---|---|---|---|---|---|
| | | | [kg] | | |
| semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.086 | Fig. 1 | **R412009338** |
| fully automatic, open without pressure | Polycarbonate | Polyamide | 0.116 | Fig. 2 | **R412009339** |
| fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.116 | Fig. 2 | **R412009340** |
| semi-automatic, open without pressure | Die cast zinc, with window | - | 0.68 | Fig. 1 | R412009344 |
| fully automatic, open without pressure | Die cast zinc, with window | - | 0.74 | Fig. 2 | R412009345 |
| fully automatic, closed without pressure | Die cast zinc, with window | - | 0.74 | Fig. 2 | R412009346 |
| Suitable for use in Ex zones 1, 2, 21, 22 | | | | | |

# Series AS5
## Accessories

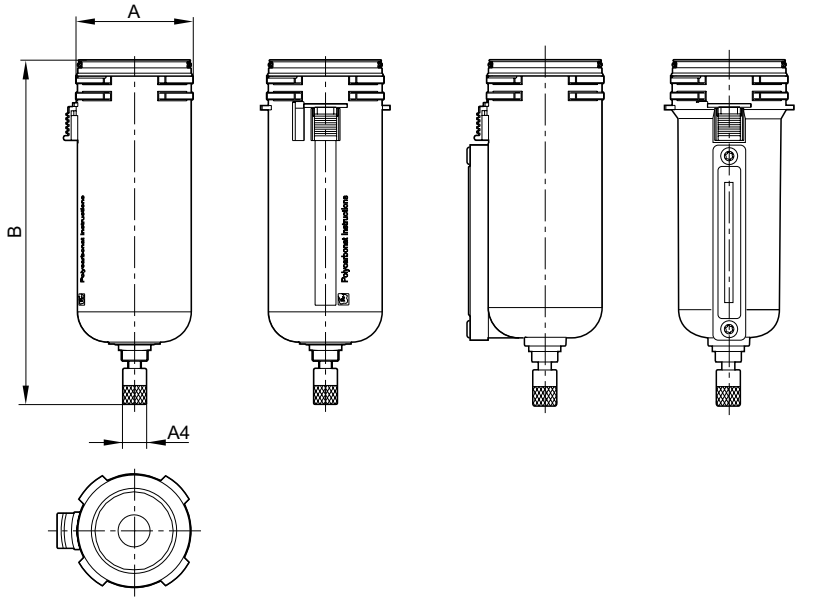
**Fig. 1**




00119840

| Part No. | A | B | C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009338** | 60 | 165.3 | 64.7 | | | | | | | | | |
| R412009344 | 60 | 165.3 | 64.7 | | | | | | | | | |

**Fig. 2**




00119841

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

# Series AS5
## Accessories

| Part No. | A4 | A | B | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009339** | G 1/8 | 60 | 182 | | | | | | | | | |
| **R412009340** | G 1/8 | 60 | 182 | | | | | | | | | |
| R412009345 | G 1/8 | 60 | 182 | | | | | | | | | |
| R412009346 | G 1/8 | 60 | 182 | | | | | | | | | |

## Reservoir, Series AS5-CLA
**► for active carbon filter ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX**

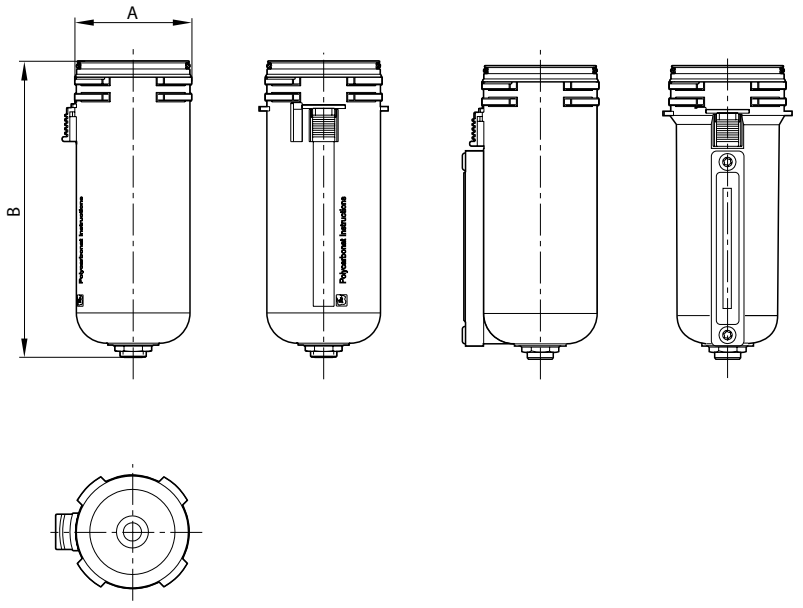

00133927

| | |
|---|---|
| Version | Reservoir |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Medium temperature min./max. | -10 °C / +50 °C |
| Working pressure min./max. | 0 bar - 16 bar |
| Filter reservoir volume | 87 cm³ |
| | |
| Materials: | |
| Reservoir | Die cast zinc |
| Seal | Acrylonitrile butadiene rubber |

| Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|
| | | [kg] | |
| Polycarbonate | Polyamide | 0.086 | R412009347 |
| Die cast zinc, with window | - | 0.77 | R412009349 |
| Suitable for use in Ex zones 1, 2, 21, 22 | | | |

# Series AS5
## Accessories

### Dimensions




00119842

| Part No. | A | B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R412009347 | 60 | 157.5 | | | | | | | | | | |
| R412009349 | 60 | 157.5 | | | | | | | | | | |

## Reservoir, Series AS5-CBS
**► for lubricator ► Material: Polycarbonate, Die cast zinc ► with window ► suitable for ATEX**

00133927

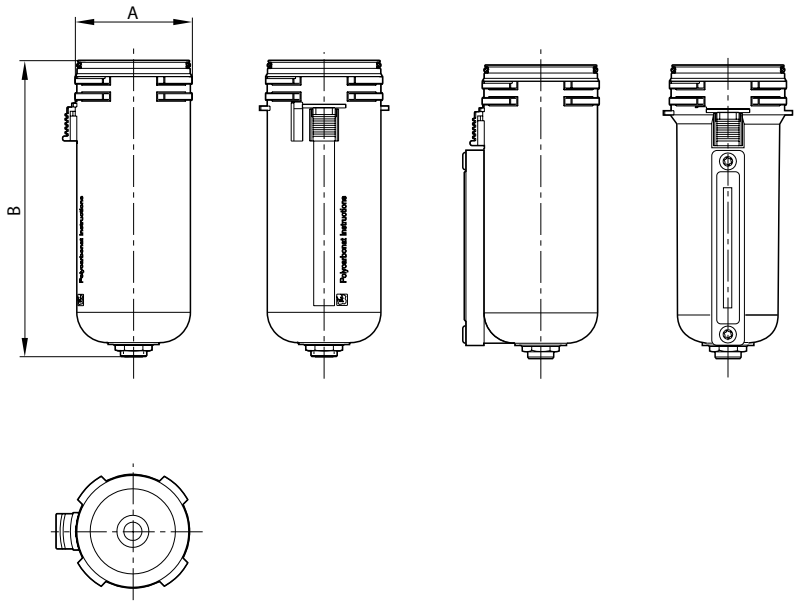
| | |
|---|---|
| Version | Reservoir |
| Ambient temperature min./max. | -10°C / +50°C |
| Medium temperature min./max. | -10°C / +50°C |
| Working pressure min./max. | 0 bar - 16 bar |
| Medium | Compressed air<br>Oil |
| Lubricator reservoir volume | 181 $cm^3$ |
| Materials: | |
| Seal | Acrylonitrile butadiene rubber |

| Electrical level detection | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|
| | | | [kg] | |
| with external query | Polycarbonate | Polyamide | 0.086 | R412009351 |
| Suitable for use in Ex zones 1, 2, 21, 22 | | | | |

# Series AS5
## Accessories

| Electrical level detection | Reservoir | Protective guard | Weight | Part No. |
|---|---|---|---|---|
| | | | [kg] | |
| - | Polycarbonate | Polyamide | 0.335 | **R412009352** |
| - | Die cast zinc, with window | - | 0.68 | R412009358 |
| Suitable for use in Ex zones 1, 2, 21, 22 | | | | |

## Dimensions



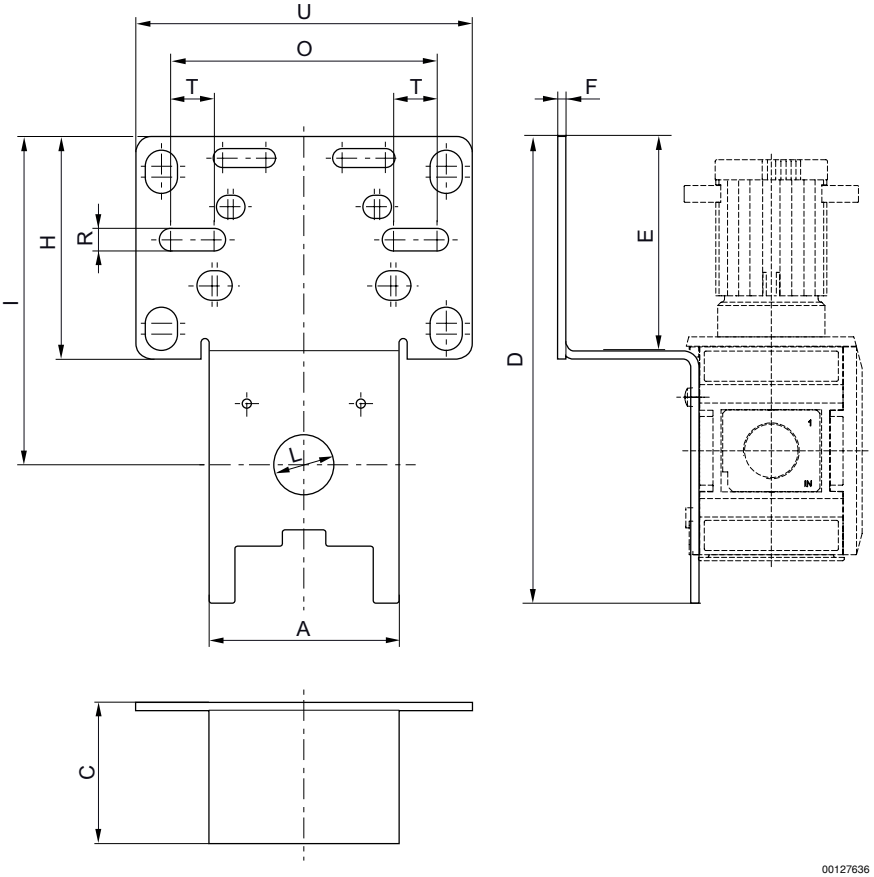

00119842

| Part No. | A | B | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R412009351 | 60 | 154.8 | | | | | | | | | | |
| **R412009352** | 60 | 154.8 | | | | | | | | | | |
| R412009358 | 60 | 154.8 | | | | | | | | | | |

# Series AS5
## Accessories

## Mounting plate, Series AS5-MBR-...-W01

00119815




00127636

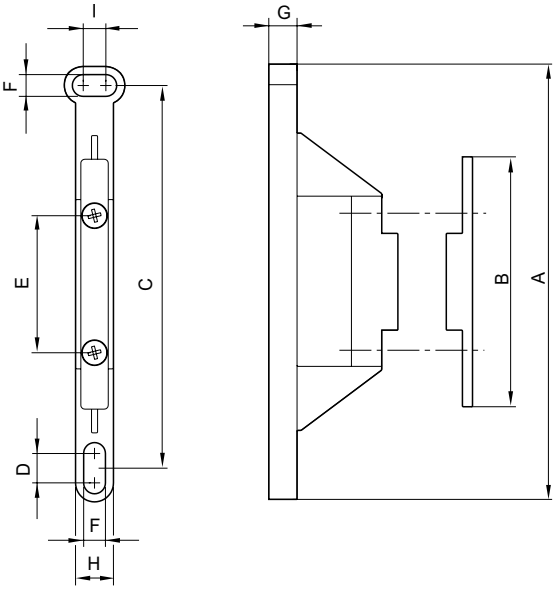
| Part No. | A | C | D | E | F | H | I | L | O | R | T | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009368** | 70 | 52 | 172 | 79 | 3 | 82 | 121 | 22 | 98 | 7 | 16 | 124 |

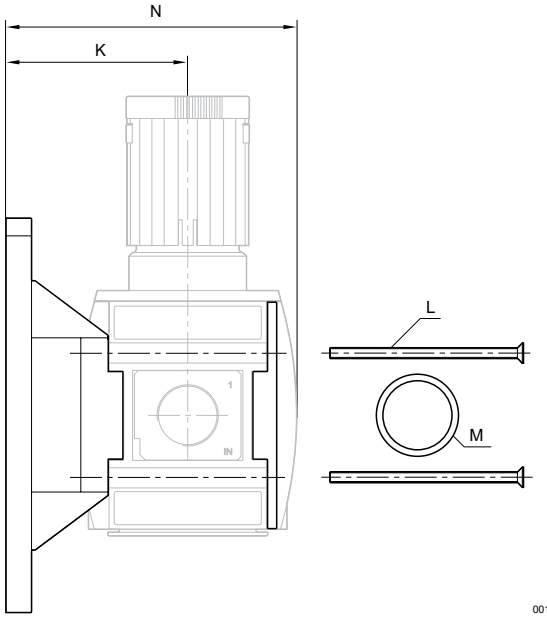
| Part No. | Material | Surface | Material Seal | Weight [kg] | Ambient temperature min./ max. [°C] | |
|---|---|---|---|---|---|---|
| **R412009368** | Steel | galvanized | Acrylonitrile butadiene rubber | 0.394 | -10 / +50 | |
| Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664 | | | | | | |

# Series AS5
## Accessories

## Mounting clip, Series AS5-MBR-...-W03
► **suitable for ATEX**

00119388



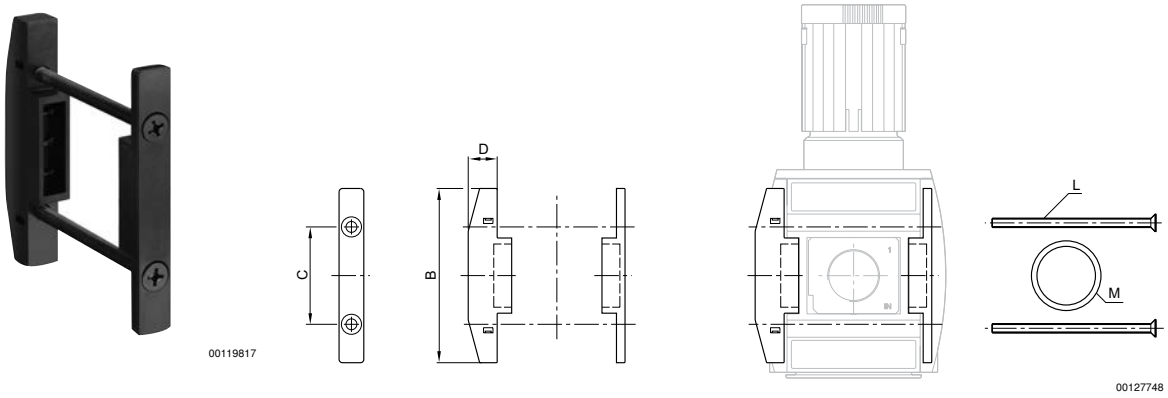

00127750

| Part No. | A | B | C | D | E | F | G | H | I | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009370** | 162 | 102 | 140 | 10 | 57 | 8.5 | 10 | 17.5 | 10 | 87 | M6x90 |

# Series AS5
## Accessories

| Part No. | M | N | Material | Material Seal | Weight [kg] | Ambient temperature min./ max. [°C] | |
|---|---|---|---|---|---|---|---|
| **R412009370** | 37x2,3 | 138.5 | Polyamide | Acrylonitrile butadiene rubber | 0.12 | -10 / +50 | |
| Scope of delivery incl. 2 mounting screws M6x90-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring<br>Suitable for use in Ex zones 1, 2, 21, 22 | | | | | | | |

## Block assembly kit, Series AS5-MBR-...-W04
► **suitable for ATEX**



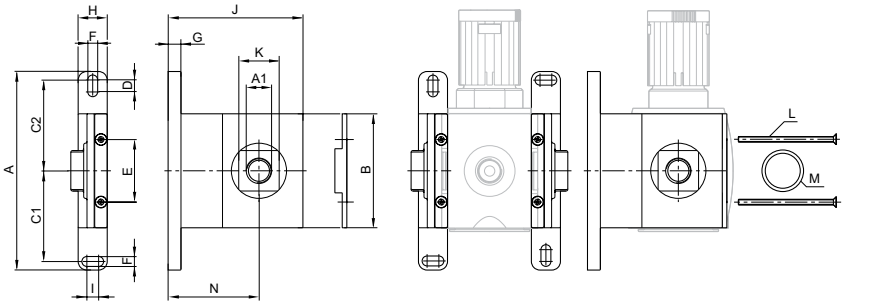

| Part No. | B | C | D | L | M | Material | Material Seal | Weight [kg] |
|---|---|---|---|---|---|---|---|---|
| **R412009371** | 102 | 57 | 17 | M6x90 | 37x2,3 | Polyamide | Acrylonitrile butadiene rubber | 0.075 |

| Part No. | Ambient temperature min./ max. [°C] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009371** | -10 / +50 | | | | | | | | | | |
| Scope of delivery incl. 2 mounting screws M6x90-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring<br>Suitable for use in Ex zones 1, 2, 21, 22 | | | | | | | | | | | |

# Series AS5
## Accessories

## Block assembly kit, Series AS5-MBR-...-W05
**► G 3/4 - G 1**

00119818




00127749

| Part No. | A1 | A | B | C1 | C2 | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009366** | G 3/4 | 160 | 102 | 72.5 | 72.5 | 10 | 57 | 8.4 | 10 | 30 | 10 | 127 |
| **R412009367** | G 1 | 160 | 102 | 72.5 | 72.5 | 10 | 57 | 8.4 | 10 | 30 | 10 | 127 |

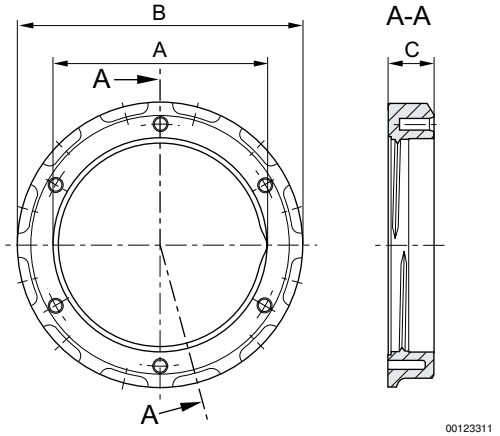
| Part No. | K | L | M | N | Material | Surface | Material Seal |
|---|---|---|---|---|---|---|---|
| **R412009366** | 41 | M6x90 | 37x2,3 | 87 | Die cast zinc | painted | Acrylonitrile butadiene rubber |
| **R412009367** | 41 | M6x90 | 37x2,3 | 87 | Die cast zinc | painted | Acrylonitrile butadiene rubber |

| Part No. | Weight [kg] | Ambient temperature min./ max. [°C] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412009366** | 0.68 | -10 / +50 | | | | | | | | | |
| **R412009367** | 0.68 | -10 / +50 | | | | | | | | | |

Scope of delivery incl. 4 mounting screws M6x90-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring

## Panel nut
**► for AS5, NL2, NL4 ► suitable for ATEX**

00124065




00123311

# Series AS5
## Accessories

| Part No. | A | B | C | Material | Weight [kg] | Note | Delivery quantity [Piece] | | |
|---|---|---|---|---|---|---|---|---|---|
| **1829234071** | M50x1,5 | 64 | 7.5 | Plastic | 0.009 | 1) | 2 | | |
| 1) Suitable for use in Ex zones 1, 2, 21, 22 | | | | | | | | | |

## Pressure gauge, Series PG1-SAS
**► Front port ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi**


00123444

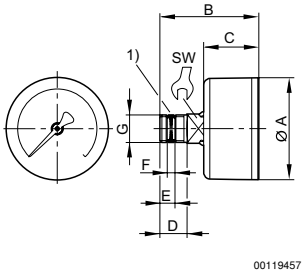
| | |
|---|---|
| Version | Bourdon tube pressure gauge |
| Standardization | EN 837-1 |
| Main scale unit (outside) | bar |
| Secondary scale unit (inside) | psi |
| Ambient temperature min./max. | -40 °C / +60 °C |
| Medium | Compressed air |
| Pointer color | White |
| Main scale color (outside) | White |
| Secondary scale color (inside) | Grey |
| Class | 2,5 |
| | |
| Materials: | |
| Housing | Acrylonitrile butadiene styrene |
| Thread | Brass |
| Viewing window | Polystyrene |
| Seal | Polytetrafluorethylene |

# Series AS5
## Accessories

| | Compressed air connection | Nominal diameter | Range of application | Display range | Operating pressure | Scale value | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|---|
| | | [mm] | [bar] | [bar] | [bar] | | [kg] | | |
|  | G 1/4 | 50 | 0 - 1.2 | 0 - 1.6 | 0 / 1.6 | 0.05 | 0.09 | - | **R412004413** |
| | G 1/4 | 50 | 0 - 2 | 0 - 2.5 | 0 / 2.5 | 0.1 | 0.09 | - | **R412004414** |
| | G 1/4 | 50 | 0 - 3.2 | 0 - 4 | 0 / 4 | 0.1 | 0.09 | - | **R412004415** |
| | G 1/4 | 50 | 0 - 4 | 0 - 6 | 0 / 6 | 0.2 | 0.09 | - | **R412004416** |
| | G 1/4 | 50 | 0 - 8 | 0 - 10 | 0 / 10 | 0.2 | 0.09 | 1) | **R412004417** |
| | G 1/4 | 50 | 0 - 12 | 0 - 16 | 0 / 16 | 0.5 | 0.09 | 1) | **R412004418** |
| | G 1/4 | 63 | 0 - 1.2 | 0 - 1.6 | 0 / 1.6 | 0.05 | 0.1 | - | R412004419 |
| | G 1/4 | 63 | 0 - 2 | 0 - 2.5 | 0 / 2.5 | 0.1 | 0.1 | - | R412004420 |
| | G 1/4 | 63 | 0 - 3.2 | 0 - 4 | 0 / 4 | 0.1 | 0.1 | - | R412004421 |
| | G 1/4 | 63 | 0 - 4 | 0 - 6 | 0 / 6 | 0.2 | 0.1 | - | R412004422 |
| | G 1/4 | 63 | 0 - 8 | 0 - 10 | 0 / 10 | 0.2 | 0.1 | - | **R412004423** |
| | G 1/4 | 63 | 0 - 12 | 0 - 16 | 0 / 16 | 0.5 | 0.1 | - | **R412004424** |
| | G 1/4 | 40 | 0 - 1.2 | 0 - 1.6 | 0 / 1.6 | 0.05 | 0.08 | - | **R412004407** |
| | G 1/4 | 40 | 0 - 2 | 0 - 2.5 | 0 / 2.5 | 0.1 | 0.08 | - | **R412004408** |
| | G 1/4 | 40 | 0 - 3.2 | 0 - 4 | 0 / 4 | 0.1 | 0.08 | - | **R412004409** |
| | G 1/4 | 40 | 0 - 4 | 0 - 6 | 0 / 6 | 0.2 | 0.08 | - | **R412004410** |
| | G 1/4 | 40 | 0 - 8 | 0 - 10 | 0 / 10 | 0.2 | 0.08 | - | **R412004411** |
| | G 1/4 | 40 | 0 - 12 | 0 - 16 | 0 / 16 | 0.5 | 0.08 | - | **R412004412** |
| | G 1/4 | 50 | 0 - 20 | 0 - 25 | 0 / 25 | 1 | 0.09 | - | **R412007898** |
| | G 1/8 | 40 | 0 - 1.2 | 0 - 1.6 | 0 / 1.6 | 0.05 | 0.08 | - | **R412003853** |
| | G 1/8 | 40 | 0 - 2 | 0 - 2.5 | 0 / 2.5 | 0.1 | 0.08 | - | **R412003854** |
| | G 1/8 | 40 | 0 - 3.2 | 0 - 4 | 0 / 4 | 0.1 | 0.08 | - | **R412003855** |
| | G 1/8 | 40 | 0 - 4 | 0 - 6 | 0 / 6 | 0.2 | 0.08 | - | **R412003856** |
| | G 1/8 | 40 | 0 - 8 | 0 - 10 | 0 / 10 | 0.2 | 0.08 | - | **R412003857** |
| | G 1/8 | 40 | 0 - 12 | 0 - 16 | 0 / 16 | 0.5 | 0.08 | - | **R412003858** |

1) Suitable for use in Ex zones 1, 2, 21, 22

## Dimensions




| Compressed air connection G | Nominal diameter | Ø A | B | C | D | E | F 1) | SW | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1/4 | 50 | 49 | 47.5 | 26.5 | 13 | 7.2 | 3.7 | 14 | | | | |
| G 1/4 | 63 | 62 | 47 | 29 | 13 | 7.2 | 3.7 | 14 | | | | |
| G 1/4 | 40 | 39 | 47.5 | 26.5 | 13 | 7.2 | 3.7 | 14 | | | | |
| G 1/8 | 40 | 39 | 44.5 | 26.5 | 10 | 5.6 | 2.1 | 14 | | | | |

1) Gasket thread

# Series AS5
## Accessories

## Pressure gauge, Series PG1-SAS-ADJ
**► Front port ► with adjustable work area display ► Background color: Black ► Scale color: White / Grey ► Viewing window: Polystyrene ► Units: bar / psi ► suitable for ATEX**


00131412

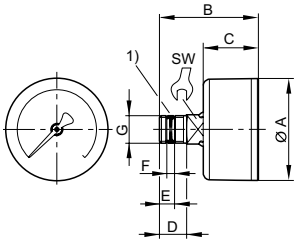
| | |
|---|---|
| Version | Bourdon tube pressure gauge |
| Standardization | EN 837-1 |
| Main scale unit (outside) | bar |
| Secondary scale unit (inside) | psi |
| Ambient temperature min./max. | -40 °C / +60 °C |
| Medium | Compressed air |
| Work area | adjustable work area display |
| Pointer color | White |
| Main scale color (outside) | White |
| Secondary scale color (inside) | Grey |
| Work Area Display, Color | Red / Green |
| Class | 2,5 |

Materials:

| | |
|---|---|
| Housing | Acrylonitrile butadiene styrene |
| Thread | Brass |
| Viewing window | Polystyrene |
| Seal | Polytetrafluorethylene |

| | Compressed air connection | Nominal diameter | Range of application | Display range | Operating pressure | Scale value | Weight | Part No. |
|---|---|---|---|---|---|---|---|---|
| | | [mm] | [bar] | [bar] | [bar] | | [kg] | |
|  | G 1/4 | 50 | 0 - 1.2 | 0 - 1.6 | 0 / 1.6 | 0.05 | 0.1 | **R412007867** |
| | | | 0 - 2 | 0 - 2.5 | 0 / 2.5 | 0.1 | | **R412007868** |
| | | | 0 - 3.2 | 0 - 4 | 0 / 4 | 0.1 | | **R412007869** |
| | | | 0 - 4 | 0 - 6 | 0 / 6 | 0.2 | | **R412007870** |
| | | | 0 - 8 | 0 - 10 | 0 / 10 | 0.2 | | **R412007871** |
| | | | 0 - 12 | 0 - 16 | 0 / 16 | 0.5 | | **R412007872** |

### Dimensions




00119457

1) Gasket thread

| Compressed air connection G | Nominal diameter | Ø A | B | C | D | E | F | SW | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G 1/4 | 50 | 49 | 47.5 | 26.5 | 13 | 7.2 | 3.7 | 14 | | | | |

# Series AS5
## Accessories

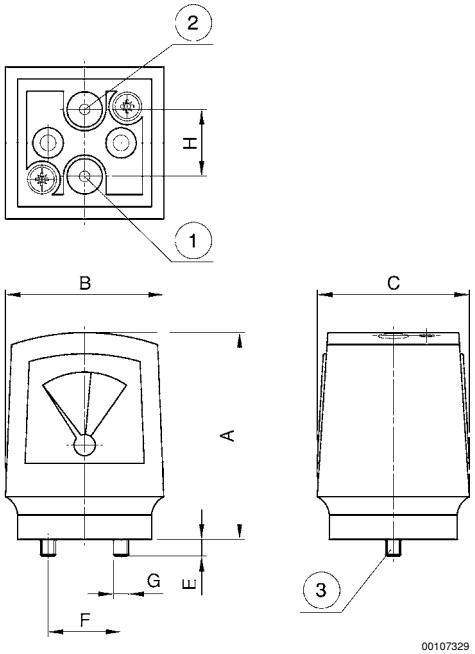
## Pressure gauge, Series PG1-DIM
**► for differential pressure measurement for prefilters and microfilters ► flange version ► Background color: White ► Scale color: Black ► Viewing window: Polystyrene ► Units: bar ► suitable for ATEX**

00106963

| | |
|---|---|
| Version | Diaphragm pressure gauge |
| Main scale unit (outside) | bar |
| Ambient temperature min./max. | +0 °C / +60 °C |
| Medium | Compressed air |
| Pointer color | Black |
| Main scale color (outside) | Black |
| Color for differential pressure range | Green / Red |
| Mounting orientation | vertical |
| | |
| Materials: | |
| Housing | Polyamide, fiber-glass reinforced |
| Viewing window | Polystyrene |
| Seal | Acrylonitrile butadiene styrene |

| | Range of application [bar] | Display range [bar] | Operating pressure [bar] | Scale value | Weight [kg] | Part No. |
|---|---|---|---|---|---|---|
|  | 0 - 0.5 | 0 - 0.5 | 0 / 16 | 0.1 | 0.127 | **1827231072** |
| Suitable for use in Ex zones 1, 2, 21, 22 | | | | | | |

### Dimensions




00107329

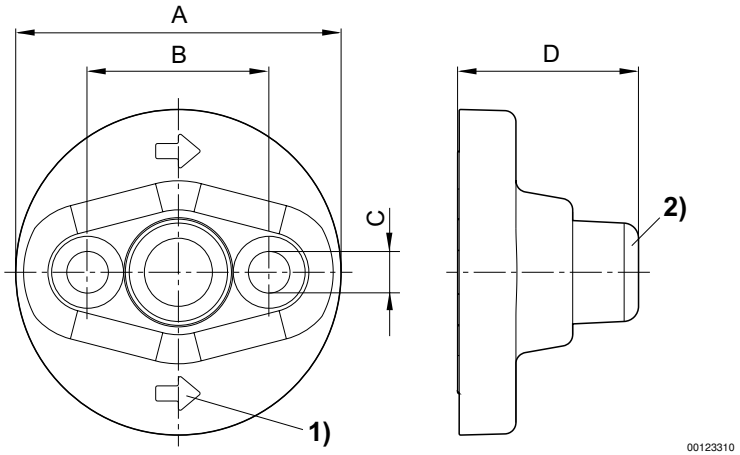
1) Input pressure p1
2) Output pressure p2
3) Mounting screw and 2 O-rings included in scope of delivery

# Series AS5
## Accessories

| A | B | C | E | F | G | H | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 68 | 52 | 50 | 6 | 24 | M5 | 22 | | | | | | | | |

## contamination display
**► for prefilters and microfilters**

00124003



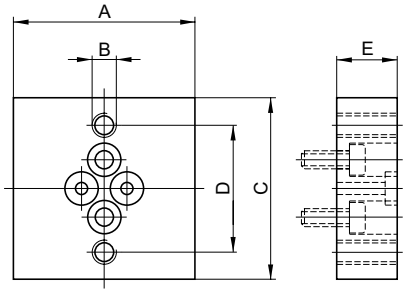

00123310

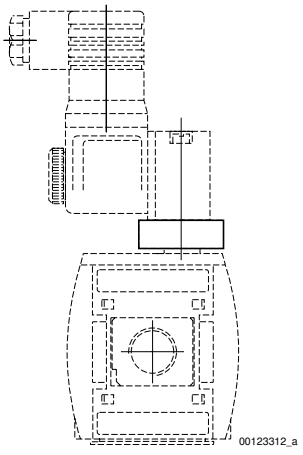
1) Flow direction
2) Display in initial state: green (= Δp < 0.35 bar)
Display turns red on contamination of the filter element (= Δp ≥ 0.35 bar).

| Part No. | A | B | C | D | Material | Weight [kg] | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412006363** | 43 | 24 | 5.5 | 24 | Polyamide | 0.025 | | | | | |
| 2 mounting screws and 2 O-rings supplied loose<br>Suitable for use in Ex zones 1, 2, 21, 22 | | | | | | | | | | | |

## Transition plate, Series AS1, AS2, AS3, AS5
**► with CNOMO porting configuration**

00124240



00123312_a

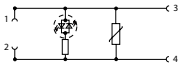
# Series AS5
## Accessories

| Part No. | A | B | C | D | E | Material | Weight [kg] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412006360** | 30 | M4 | 30 | 21 | 10 | Aluminum | 0.025 | | | | |
| Scope of delivery incl. 4 mounting screws, 2 O-rings<br>Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot | | | | | | | | | | | |

# Adapter, Series CN1
## ► Form C, ISO 15217/M 12

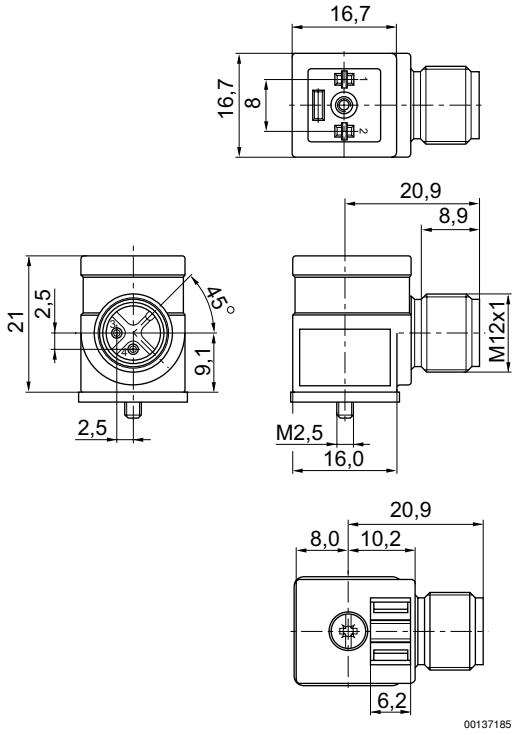
00137187

| | |
|---|---|
| Ambient temperature min./max. | -10°C / +100°C |
| Protection class | IP65 |
| Operating voltage DC, max. | 24 V DC |
| Mounting screw tightening torque | 0.6 Nm |
| | |
| Materials: | |
| Housing | Polyurethane |

| | Max. current | Contact assignment | Protective circuit | LED status display | Housing color | Part No. |
|---|---|---|---|---|---|---|
| | | | | | | |
| | [A] | | | | | |
|  | 1 | 2+E | Varistor | Yellow | Transparent | **R412009553** |

# Series AS5
## Accessories

### Dimensions



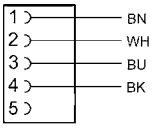

## Connecting cable, Series CN2
**► Socket, M12x1, 5-pin, A-coded, angled ► without wire end ferrule, tin-plated, 4-pin ► for CANopen, DeviceNet**


00107009_c

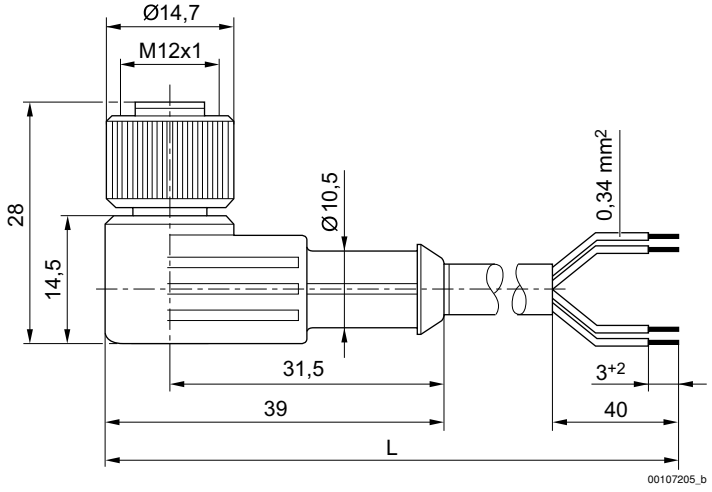
| | |
|---|---|
| Ambient temperature min./max. | -40°C / +85°C |
| Protection class | IP65 |
| Materials: | |
| Cable sheath | Polyurethane |

### Technical Remarks
- The specified protection class is only valid in assembled and tested state.

# Series AS5
## Accessories

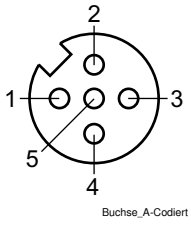
| | Operational voltage max. | Max. current | Number of wires | Wire cross-section | Cable length L | Weight | Part No. |
|---|---|---|---|---|---|---|---|
| | [V AC] | [A] | | [mm²] | [m] | [kg] | |
|  | 48 | 4 | 4 | 0.34 | 3 | 0.13 | **1834484259** |
| | | | | | 5 | 0.202 | **1834484260** |
| | | | | | 10 | 0.387 | **1834484261** |

## Dimensions




L = length

## Pin assignment

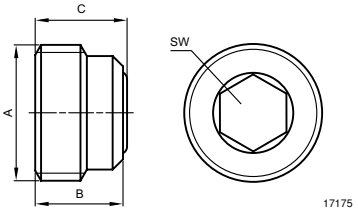



(1) BN=brown
(2) WH=white
(3) BU=blue
(4) BK=black
(5) not assigned

# Series AS5
**Accessories**

## plugs

18417

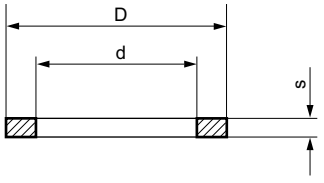


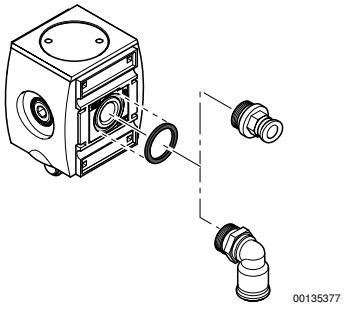

| Part No. | Type | A | B | C | SW | Material |
|---|---|---|---|---|---|---|
| **R412010124** | plugs | G 1/4 | 8.5 | 8.9 | 6 | Polyamide |

| Part No. | Material Seal | Order quantity [Piece] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412010124** | Acrylonitrile butadiene rubber | 10 | | | | | | | | | |

## Sealing ring
**► Acrylonitrile butadiene styrene**

00127841



00135377

| Part No. | usage<br>Series | Type | d | D | s | Delivery quantity [Piece] | Working pressure min./max. [bar] |
|---|---|---|---|---|---|---|---|
| **R412010148** | AS2 | For compressed air connection G 3/8 | 17.9 | 22.5 | 1.5 | 10 | -0.95 / 16 |
| **R412010149** | AS3 | For compressed air connection G 1/2 | 22.4 | 26.4 | 1.5 | 10 | -0.95 / 16 |

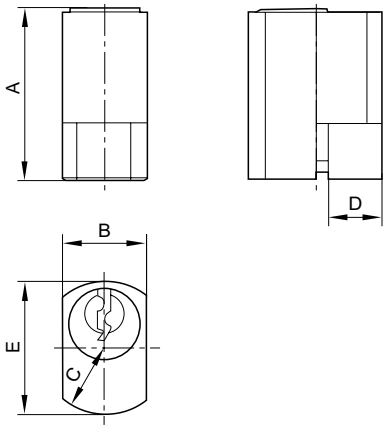
# Series AS5
## Accessories

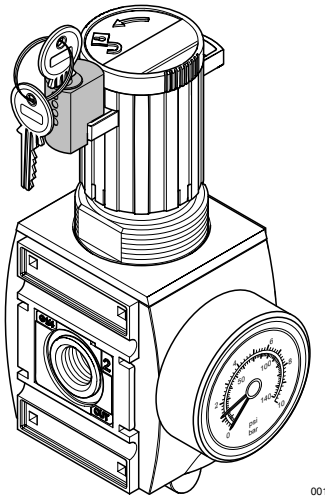
| Part No. | usage<br>Series | Type | d | D | s | Delivery quantity [Piece] | Working pressure min./max. [bar] |
|---|---|---|---|---|---|---|---|
| R412010150 | AS5 | For compressed air connection G 1 | 36.9 | 41.9 | 1.8 | 10 | -0.95 / 16 |

| Part No. | Ambient temperature min./max. [°C] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **R412010148** | -10 / +60 | | | | | | | | | | |
| **R412010149** | -10 / +60 | | | | | | | | | | |
| R412010150 | -10 / +60 | | | | | | | | | | |
| For inserting into the O-ring groove when using series QR1 and QR2 fittings. | | | | | | | | | | | |

## mortise lock
► **for Series AS2, AS3, AS5**

00135465



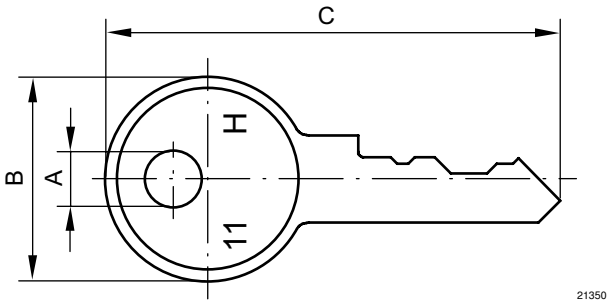
00134002

# Series AS5
## Accessories

| Part No. | Type | A | B | C | D | E | Material | |
|---|---|---|---|---|---|---|---|---|
| **R412007959** | Standard locking, with key | 25 | 13 | R10 | Ø8 | 20 | Steel | |
| R412006374 | E11 locking, without key | 25 | 13 | R10 | Ø8 | 20 | Steel | |

## Key for E11 locking

22691

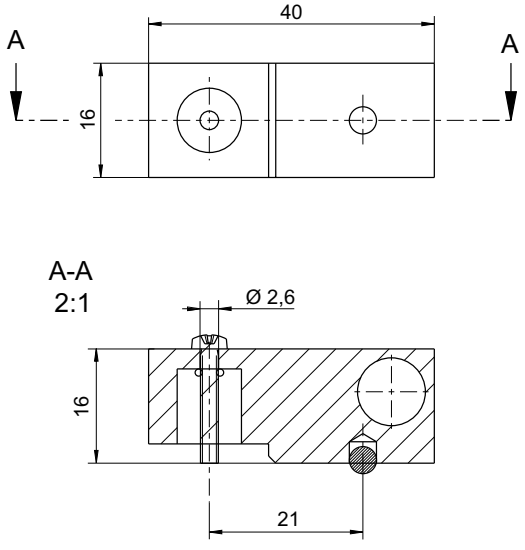


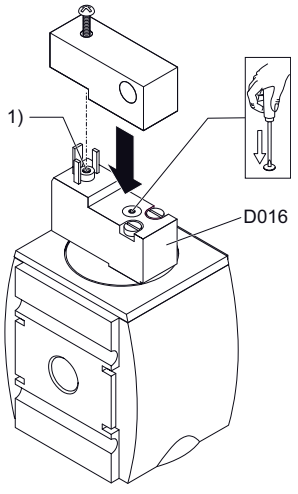

21350

| Part No. | A | B | C | Delivery quantity [Piece] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **R961403407** | 4.5 | 20.5 | 45 | 1 | | | | | | | | |

## Mounting aid
**► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical push-in fitting, form C.**

00015811



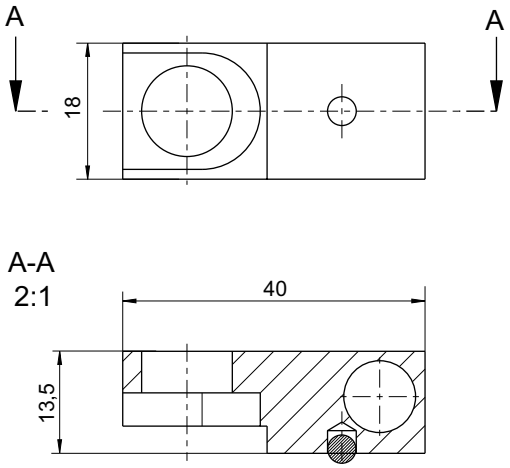

00015809_a

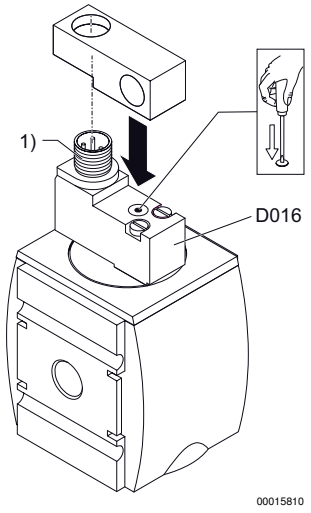
1) ISO 15217, form C

## Series AS5
### Accessories

| Part No. | Material | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R412019278 | Aluminum | | | | | | | | | | | |
| Scope of delivery incl. 1 mounting screw, 1 O-ring | | | | | | | | | | | | |

## Mounting aid
**► Assembly aid for permanent actuation of manual override (“press”) on pilot valve DO16 with electrical connection M12x1.**




1) M12x1

| Part No. | Material | Weight [kg] | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R412015193 | Aluminum | 0.023 | | | | | | | | | |
| Mounting the assembly aid to the pilot valve using electrical connector M12x1 | | | | | | | | | | | |

# Series AS5
## Accessories

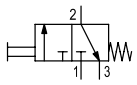
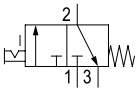
## 3/2-directional valve, Series DO30
**► Qn = 65 - 90 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent ► suitable for ATEX**

00110091

| | |
|---|---|
| Standards | CNOMO / NFE 49-003-1 |
| Version | Poppet valve |
| Sealing principle | Soft sealing |
| Mounting on manifold strip | P-strip |
| Working pressure min./max. | 0 bar / 10 bar |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Medium temperature min./max. | -10 °C / +50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 mg/m³ - 5 mg/m³ |
| Nominal flow 1 ► 2 | See table below |
| Nominal flow 2 ► 3 | See table below |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | M4 |
| | |
| Materials: | |
| Housing | Plastic |
| Seals | Fluorocaoutchouc |

**Technical Remarks**

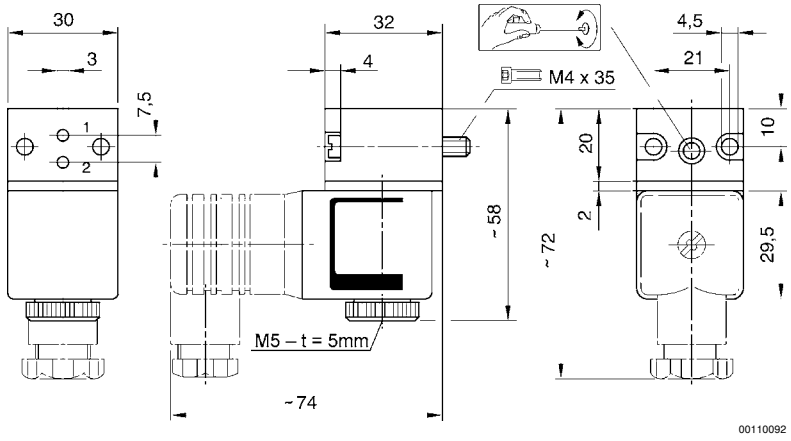
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

| | MO | Compressed air connection | | | Flow rate value | | Compatibility index | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | Qn 1►2 | Qn 2►3 | | | | |
| | | | | | [l/min] | | | [kg] | | |
|  |  | CNOMO | CNOMO | M5 | 68 | 90 | 15 | 0.06 | 1) | **0820019985** |
|  |  | CNOMO | CNOMO | M5 | 65 | 80 | 15 | 0.06 | 1) | **0820019980** |

MO = Manual override
1) pilot valve without coil
Basic valve without coil
Nominal flow Qn at 6 bar and Δp = 1 bar

# Series AS5
## Accessories

### Dimensions




t = depth

## Coil, Series CO1
**► Cable with connector ► Coil width 30 mm ► ATEX certified**


00115846

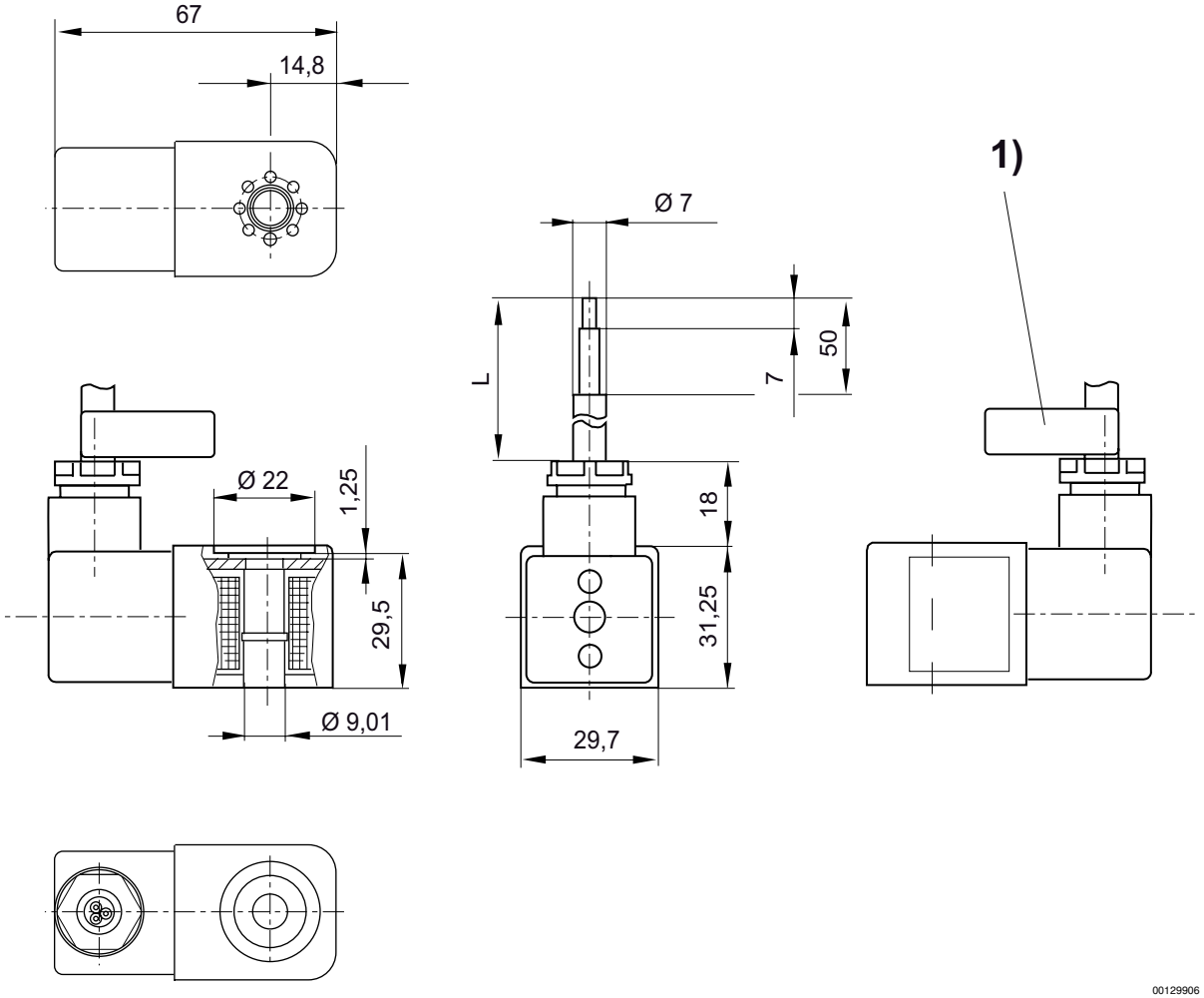
| | |
|---|---|
| ATEX | II 2G Ex mb IIC T4 Gb<br>II 2D Ex mb tb IIIC T 130°C Db IP65 |
| Ambient temperature min./max. | -20°C / +50°C |
| Protection class | IP65 |
| Duty cycle ED | 100 % |
| Compatibility index CI | 14 |

| Operational voltage | | | Voltage tolerance | | Power consumption | Switch-on power | Holding power |
|---|---|---|---|---|---|---|---|
| DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | DC | AC 50 Hz | AC 50 Hz |
| | | | | | W | VA | VA |
| - | 230 V | 230 V | - | -10% / +10% | - | 3.1 | 3 |
| - | 110 V | 110 V | - | -10% / +10% | - | 3 | 2.9 |
| 24 V | - | - | -10% / +10% | - | 3.25 | - | - |

# Series AS5
## Accessories

| | Operational voltage | | | Cable length L | Weight | Part No. |
|---|---|---|---|---|---|---|
| | AC 50 Hz | DC | AC 60 Hz | | | |
| | | | | [m] | [kg] | |
| | 230 V | - | 230 V | 3 | 0.38 | **1827414297** |
| | 230 V | - | 230 V | 10 | 0.91 | **1827414298** |
| | 110 V | - | 110 V | 3 | 0.38 | **1827414299** |
| | - | 24 V | - | 3 | 0.38 | **1827414303** |
| | - | 24 V | - | 10 | 0.91 | **1827414304** |

### Dimensions




L = cable length
1) Cable ID band with serial number

# Series AS5
## Accessories

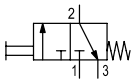
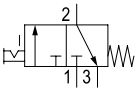
## 3/2-directional valve, Series DO30
**► Qn = 65 - 90 l/min ► Pilot valve width: 30 mm ► Plate valve with pipe connection ► Compressed air connection output: CNOMO ► Electr. connection: Plug, ISO 4400, form A ► Manual override: without detent, with detent ► suitable for ATEX**

00110091

| | |
|---|---|
| Standards | CNOMO / NFE 49-003-1 |
| Version | Poppet valve |
| Sealing principle | Soft sealing |
| Mounting on manifold strip | P-strip |
| Working pressure min./max. | 0 bar / 10 bar |
| Ambient temperature min./max. | -10 °C / +50 °C |
| Medium temperature min./max. | -10 °C / +50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 mg/m³ - 5 mg/m³ |
| Nominal flow 1 ► 2 | See table below |
| Nominal flow 2 ► 3 | See table below |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | M4 |
| | |
| Materials: | |
| Housing | Plastic |
| Seals | Fluorocaoutchouc |

**Technical Remarks**

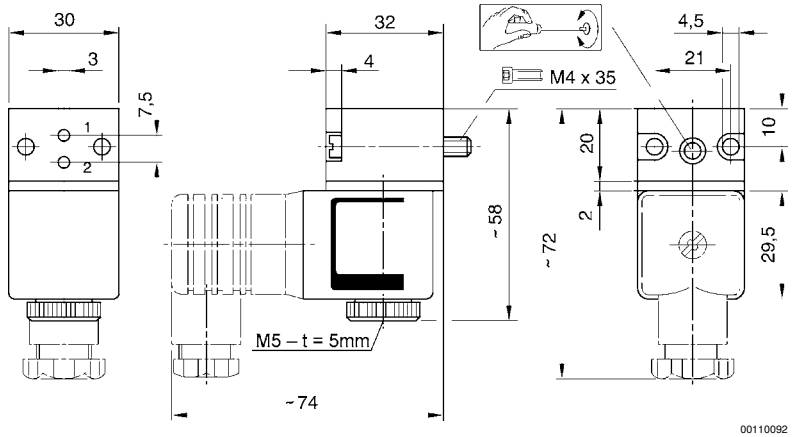
- The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

| | MO | Compressed air connection | | | Flow rate value | | Compatibility index | Weight | Note | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Input | Output | Exhaust | Qn 1►2 | Qn 2►3 | | | | |
| | | | | | [l/min] | | | [kg] | | |
|  |  | CNOMO | CNOMO | M5 | 68 | 90 | 15 | 0.06 | 1) | **0820019985** |
|  |  | CNOMO | CNOMO | M5 | 65 | 80 | 15 | 0.06 | 1) | **0820019980** |

MO = Manual override
1) pilot valve without coil
Basic valve without coil
Nominal flow Qn at 6 bar and Δp = 1 bar

# Series AS5
## Accessories

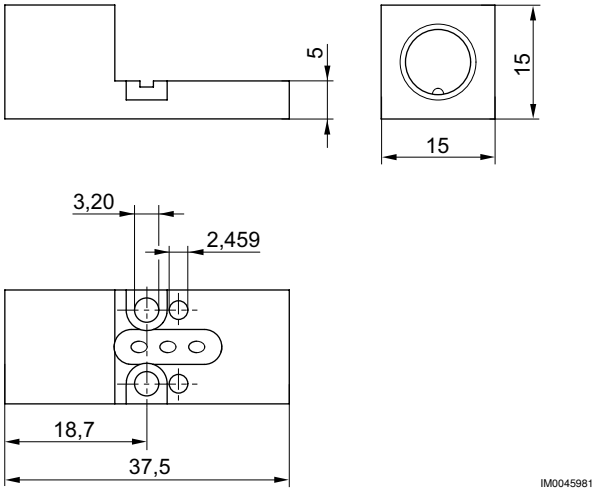
### Dimensions




t = depth

## Adapter for external pilot air
► !translate!

IM0046538




| Part No. | Material | Weight [kg] | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R412025904 | Aluminum | 0.015 | | | | | | | | | | |
| Delivery incl. 1 seal plate, 1 screw 3x10, 1 screw DIN 84-M3x18 | | | | | | | | | | | | |

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Find more contact information at
www.aventics.com/contact

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05-04-2017