

Series AS3

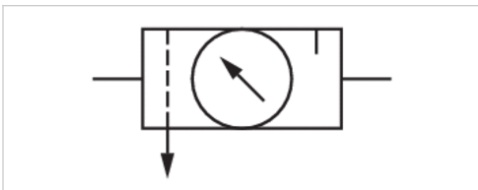


AVENTICS™ Series AS3



Air preparation unit, 2-part, Series AS3-ACD

- G 3/8 G 1/2
- filter porosity 5 µm
- lockable
- for padlocks
- with pressure gauge



| | |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Version | 2-part, Can be assembled into blocks |
| Parts | Filter pressure regulator, Lubricator |
| Mounting orientation | vertical |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 3500 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function Adjustment range min./max. Pressure supply | with relieving air exhaust 0.5 ... 8 bar single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Lubricator reservoir volume | 80 cm ³ |
| Type of filling | Semi-automatic oil filling during operation Manual oil filling |
| Weight | See table below |

Technical data

| Part No. | Port | filter porosity | Flow | Working pressure min./max. |
|------------|-------|-----------------|------------|----------------------------|
| | | | Qn | |
| R412007298 | G 3/8 | 5 µm | 3500 l/min | 1.5 ... 16 bar |
| R412007299 | G 3/8 | 5 µm | 3500 l/min | 1.5 ... 16 bar |
| R412007307 | G 1/2 | 5 µm | 3500 l/min | 1.5 ... 16 bar |
| R412007308 | G 1/2 | 5 µm | 3500 l/min | 1.5 ... 16 bar |
| R412007309 | G 1/2 | 5 µm | 3500 l/min | 1.5 ... 16 bar |
| R412007313 | G 1/2 | 5 µm | 3500 l/min | 1.5 ... 16 bar |
| R412007314 | G 1/2 | 5 µm | 3500 l/min | 1.6 ... 16 bar |
| R412007315 | G 1/2 | 5 µm | 3500 l/min | 1.5 ... 16 bar |

| Part No. | Condensate drain | Pressure gauge | Reservoir |
|------------|------------------------------------------|---------------------|---------------|
| R412007298 | semi-automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007299 | fully automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007307 | semi-automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007308 | fully automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007309 | fully automatic, closed without pressure | with pressure gauge | Polycarbonate |

| Part No. | Condensate drain | Pressure gauge | Reservoir |
|------------|------------------------------------------|---------------------|---------------|
| R412007313 | semi-automatic, open without pressure | with pressure gauge | Die cast zinc |
| R412007314 | fully automatic, open without pressure | with pressure gauge | Die cast zinc |
| R412007315 | fully automatic, closed without pressure | with pressure gauge | Die cast zinc |

| Part No. | Weight |
|------------|---------|
| R412007298 | 1.02 kg |
| R412007299 | 1.07 kg |
| R412007307 | 1.02 kg |
| R412007308 | 1.07 kg |
| R412007309 | 1.07 kg |
| R412007313 | 1.83 kg |
| R412007314 | 1.87 kg |
| R412007315 | 1.75 kg |

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

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

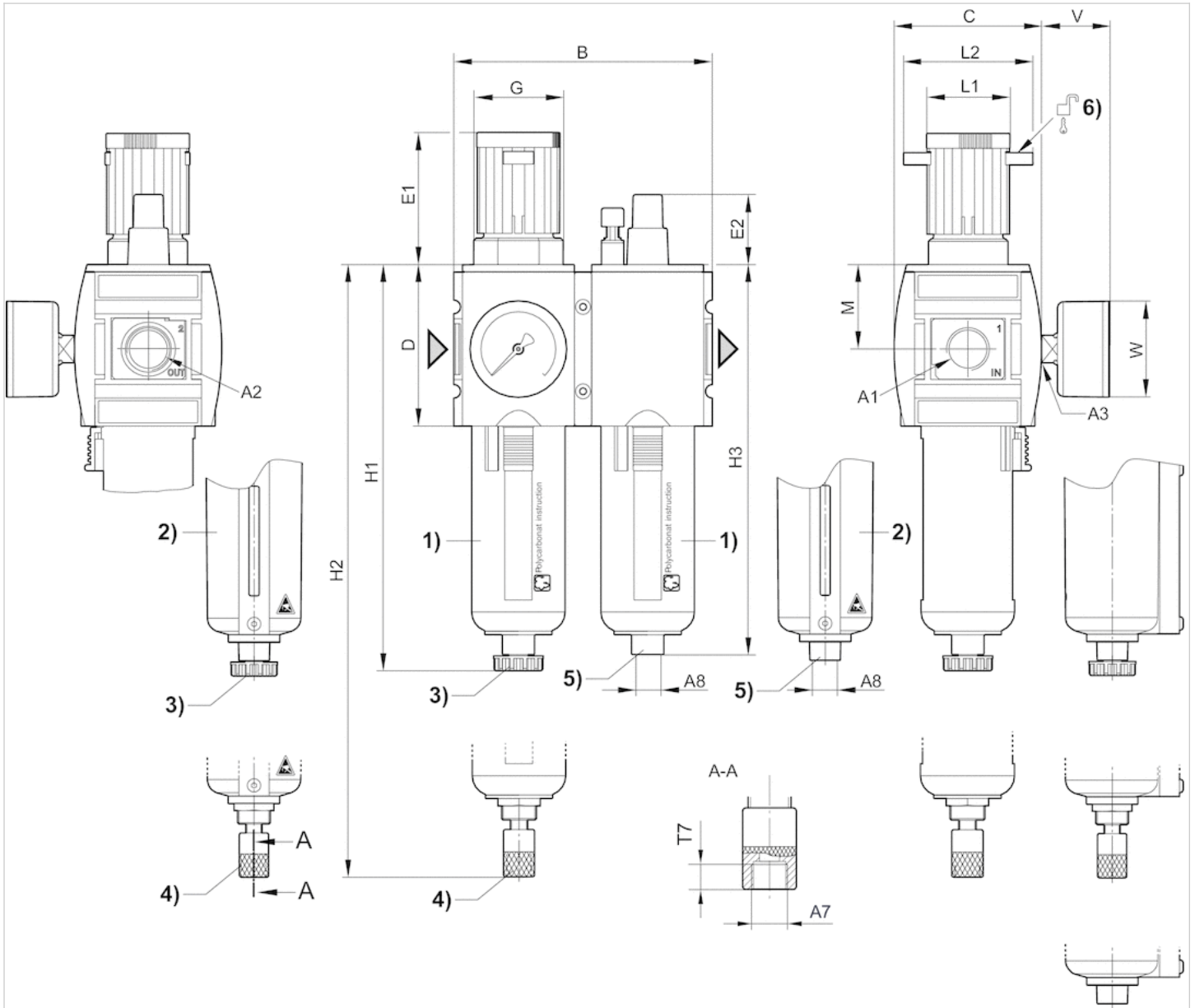
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions



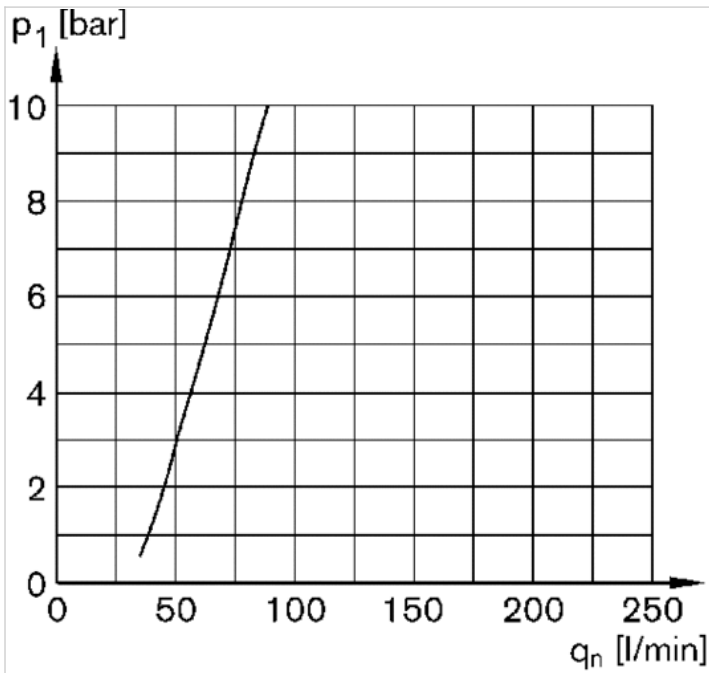
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with level indicator
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) Port for semi-automatic oil filling 6) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A1 | A2 | A3 | A7 | A8 | B | C | D | E1 | E2 | G | H1 | H2 | H3 | M | L1 | L2 | T7 | V | W |
|-------|-------|-------|-------|-------|-----|----|----|------|------|---------|-------|-----|-----|------|----|----|-----|----|----|
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | G 1/8 | 126 | 74 | 80 | 63.5 | 27.5 | M42x1,5 | 189.5 | 206 | 183 | 42.5 | 41 | 60 | 8.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | G 1/8 | 126 | 74 | 80 | 63.5 | 27.5 | M42x1,5 | 189.5 | 206 | 183 | 42.5 | 41 | 60 | 8.5 | 33 | 50 |

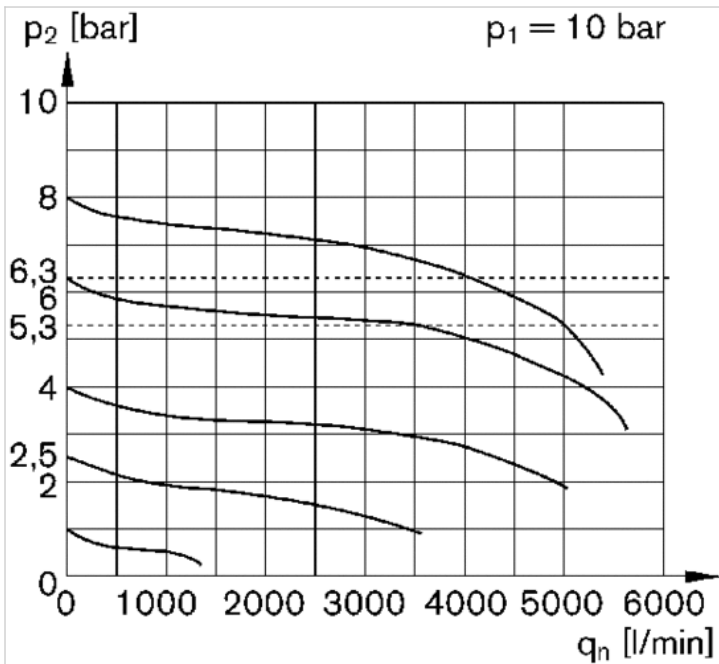
Diagrams

Lubricator activation margin



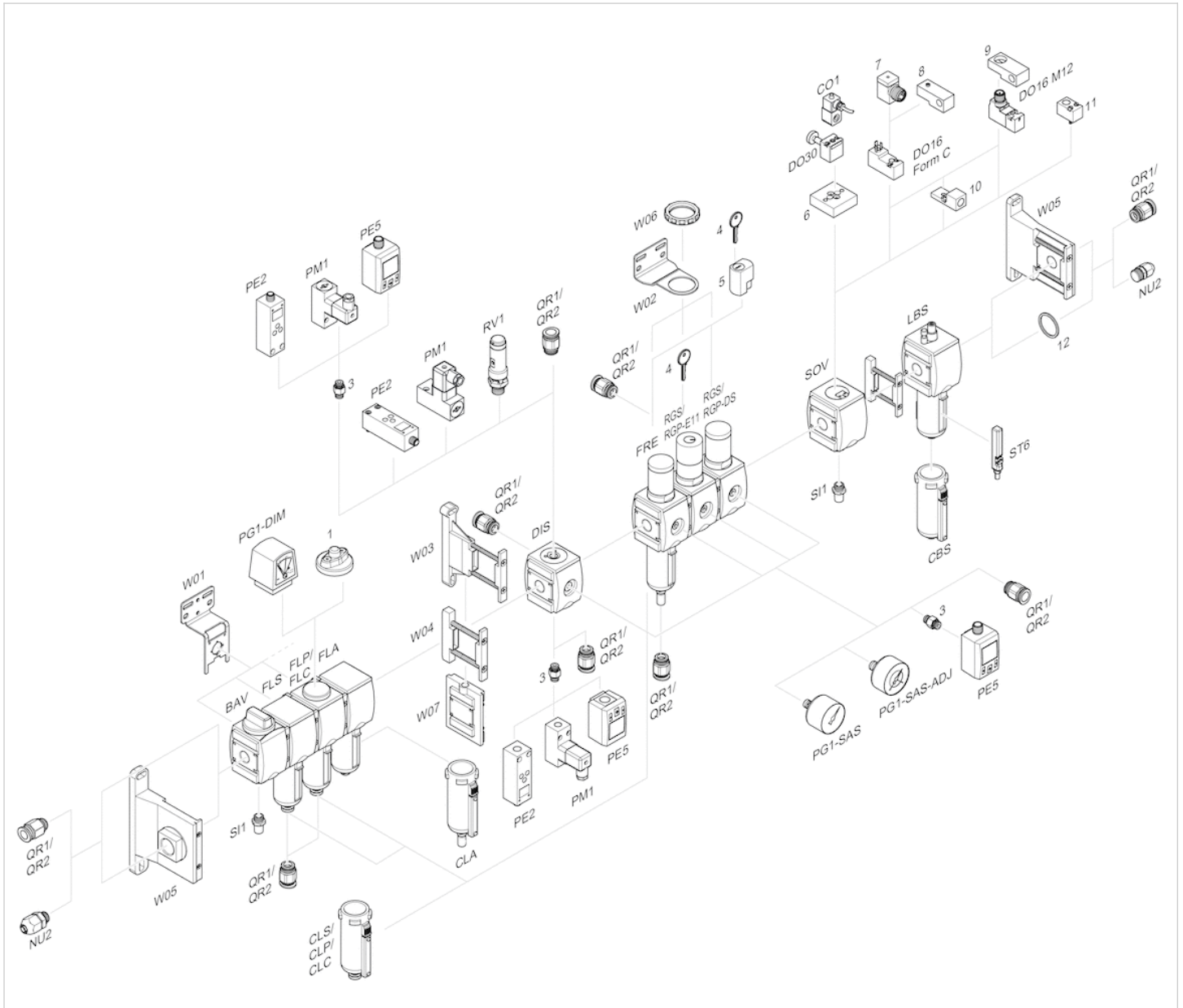
p1 = working pressure
qn = nominal flow

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



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

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Air preparation unit, 2-part, Series AS3-ACC R412027671

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Parts
Air preparation units
Shut-off valve
Filter pressure regulator

Port
G 3/8

Nominal flow Qn
5100 l/min

Filter porosity
5 µm

Condensate drain
semi-automatic, open without pressure

Pressure gauge
with pressure gauge

Working pressure min.
1.5 bar

Working pressure max
16 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Regulation range min.
0.5 bar

Regulation range max.
8 bar

Lock type
lockable

lockable
for padlocks

Type
2-part

Type
Can be assembled into blocks

Pressure supply
single

Mounting orientation
vertical

Regulator type
Diaphragm-type pressure regulator

Regulator function
with relieving air exhaust
Filter element
exchangeable
Filter reservoir volume
49 cm³

Max. achievable compressed air class acc. to
ISO 8573-1:2010
6 : 7 : -
Medium
Compressed air
Neutral gases
Weight
2.16 kg

Material

Housing material
Polyamide
Seal material
Acrylonitrile butadiene rubber
Material front plate
Acrylonitrile butadiene styrene
Material threaded bushing
Die cast zinc

Material reservoir
Polycarbonate
Material protective guard
Polyamide
Material filter insert
Polyethylene
Part No.
R412027671

Technical information

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

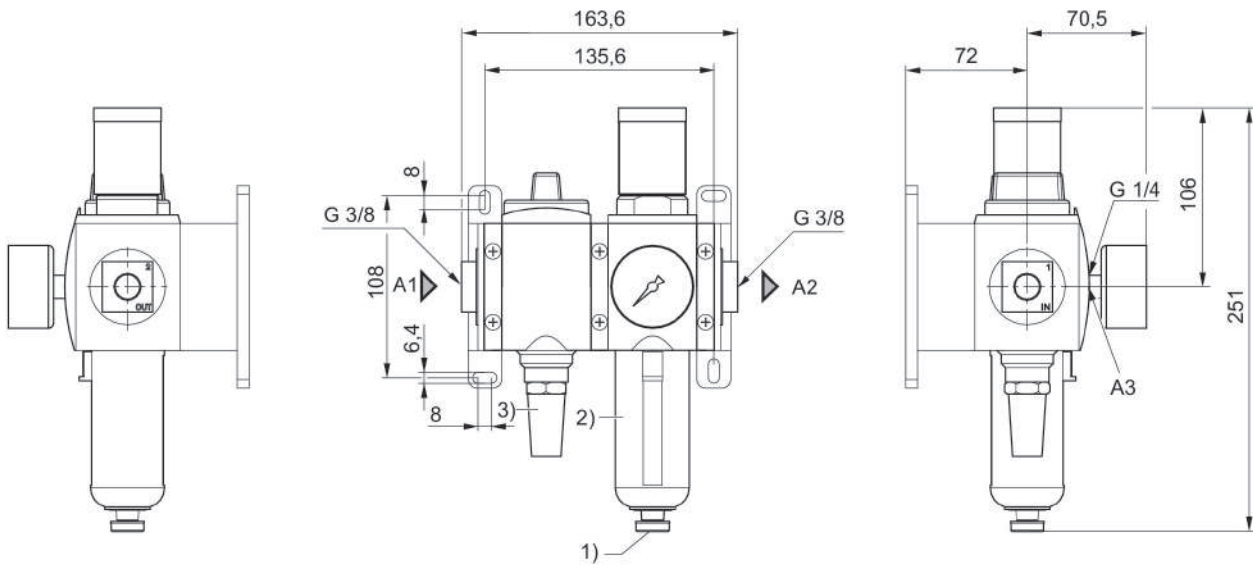
Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

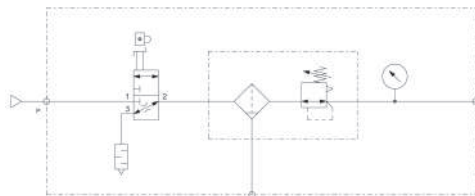
Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Dimensions

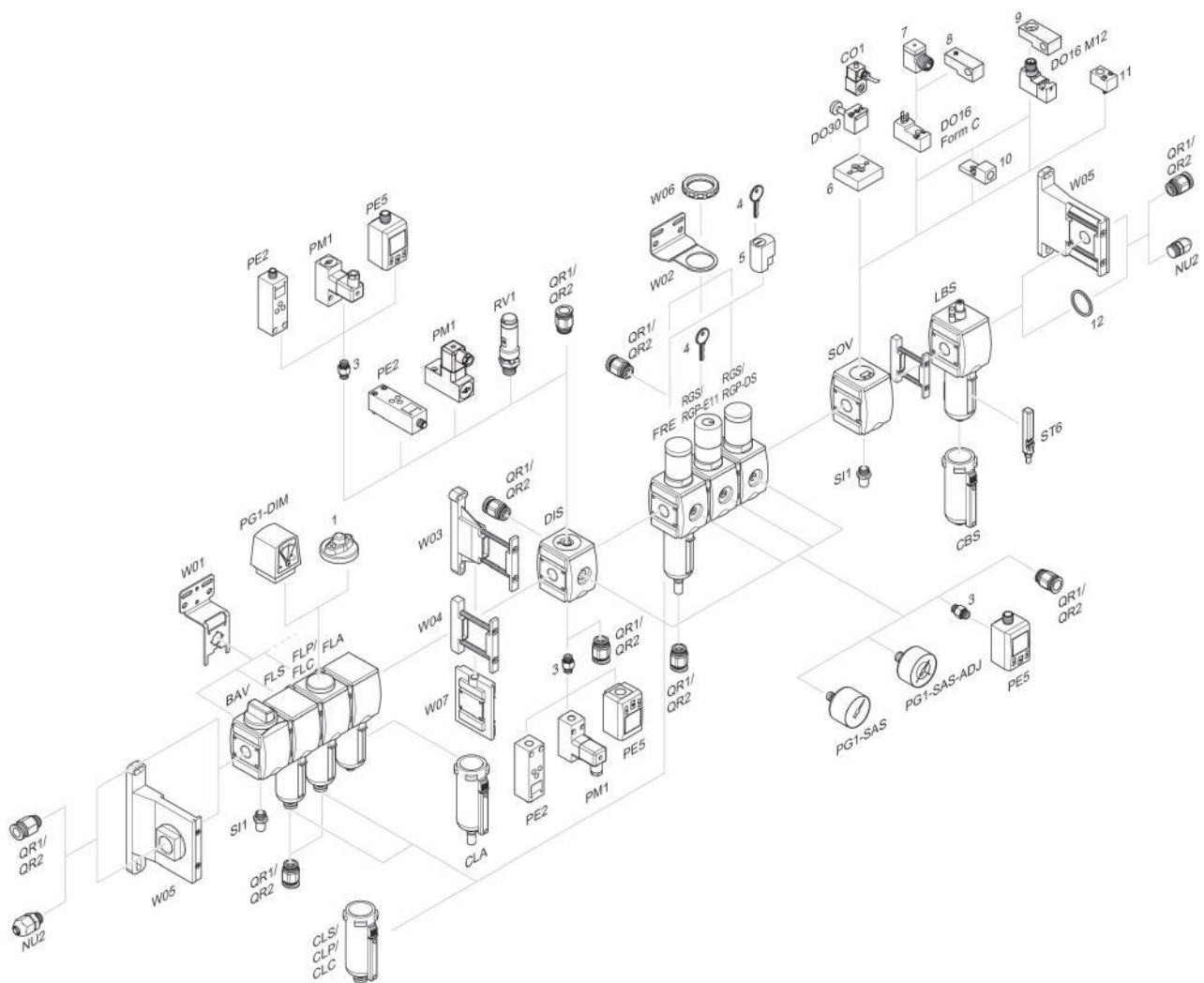


- A1 = input
- A2 = output
- A3 = pressure gauge connection
- 1) Semi-automatic condensate drain
- 2) Plastic reservoir and protective guard with window
- 3) Silencer

Block diagram



Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Air preparation unit, 2-part, Series AS3-ACC R412027672

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Technical data

Industry
Industrial

Parts
Air preparation units
Shut-off valve
Filter pressure regulator

Port
G 1/2

Nominal flow Qn
5100 l/min

Filter porosity
5 µm

Condensate drain
semi-automatic, open without pressure

Pressure gauge
with pressure gauge

Working pressure min.
1.5 bar

Working pressure max
16 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Regulation range min.
0.5 bar

Regulation range max.
8 bar

Lock type
lockable

lockable
for padlocks

Type
2-part

Type
Can be assembled into blocks

Pressure supply
single

Mounting orientation
vertical

Regulator type
Diaphragm-type pressure regulator

Regulator function
with relieving air exhaust
Filter element
exchangeable
Filter reservoir volume
49 cm³

Max. achievable compressed air class acc. to
ISO 8573-1:2010
6 : 7 : -
Medium
Compressed air
Neutral gases
Weight
2.11 kg

Material

Housing material
Polyamide
Seal material
Acrylonitrile butadiene rubber
Material front plate
Acrylonitrile butadiene styrene
Material threaded bushing
Die cast zinc

Material reservoir
Polycarbonate
Material protective guard
Polyamide
Material filter insert
Polyethylene
Part No.
R412027672

Technical information

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

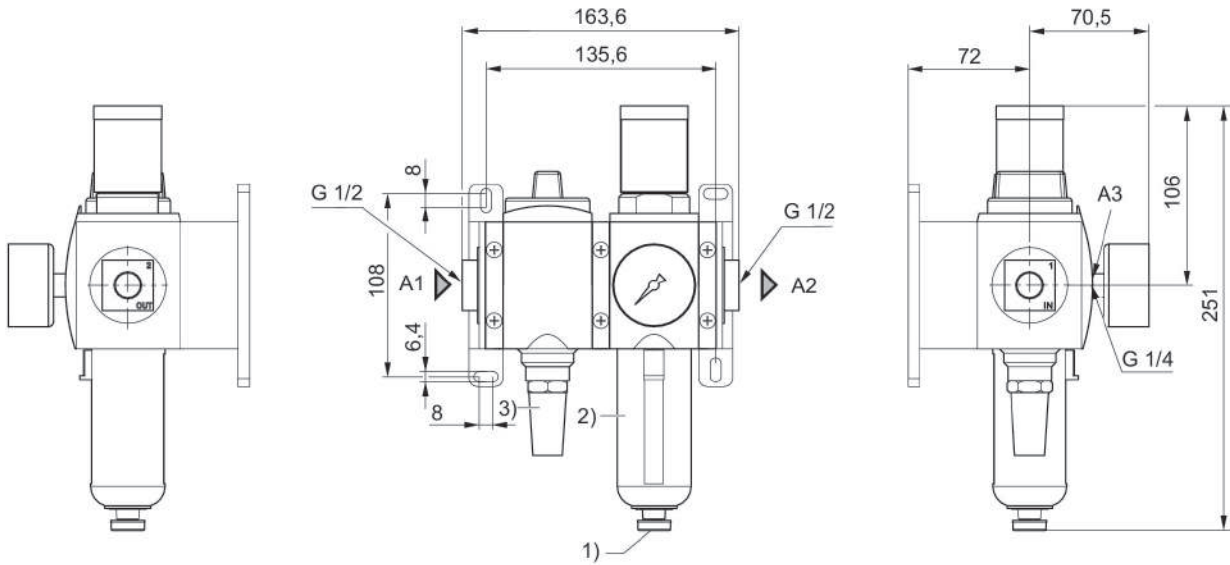
Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

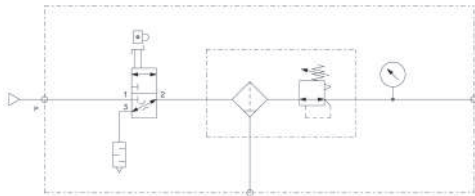
Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Dimensions in mm

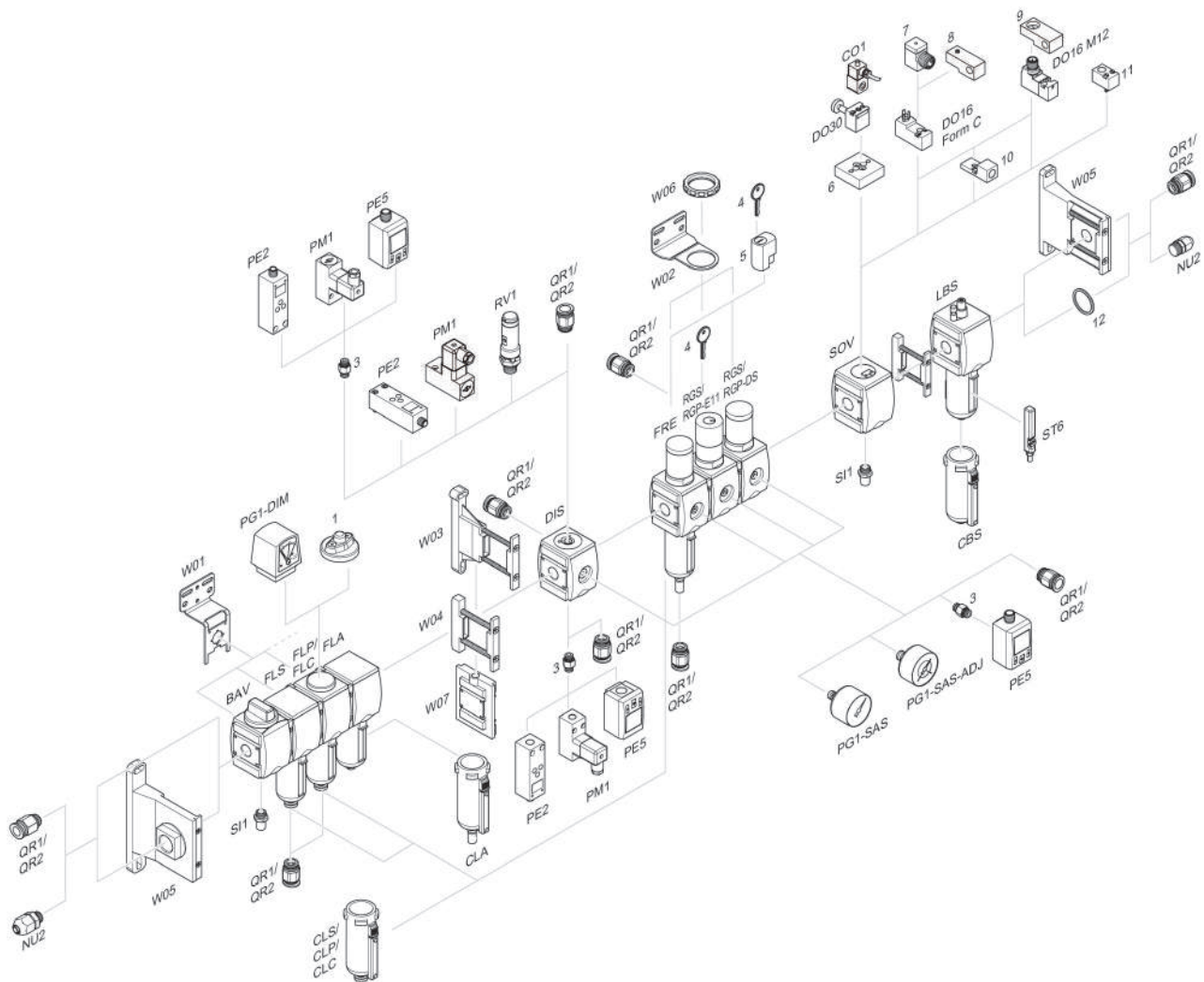


- A1 = input
- A2 = output
- A3 = pressure gauge connection
- 1) Semi-automatic condensate drain
- 2) Plastic reservoir and protective guard with window
- 3) Silencer

Block diagram



Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Air preparation unit, 2-part, Series AS3-ACC R412027673

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Parts
Air preparation units
Shut-off valve
Filter pressure regulator

Port
G 1/2

Nominal flow Qn
5100 l/min

Filter porosity
5 µm

Condensate drain
semi-automatic, open without pressure

Pressure gauge
with pressure gauge

Working pressure min.
1.5 bar

Working pressure max
16 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Regulation range min.
0.5 bar

Regulation range max.
8 bar

Lock type
lockable

lockable
for padlocks

Type
2-part

Type
Can be assembled into blocks

Pressure supply
single

Mounting orientation
vertical

Regulator type
Diaphragm-type pressure regulator

Regulator function
with relieving air exhaust
Filter element
exchangeable
Filter reservoir volume
49 cm³

Max. achievable compressed air class acc. to
ISO 8573-1:2010
6 : 7 : -
Medium
Compressed air
Neutral gases
Weight
1.45 kg

Material

Housing material
Polyamide
Seal material
Acrylonitrile butadiene rubber
Material front plate
Acrylonitrile butadiene styrene
Material threaded bushing
Die cast zinc

Material reservoir
Polycarbonate
Material protective guard
Polyamide
Material filter insert
Polyethylene
Part No.
R412027673

Technical information

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

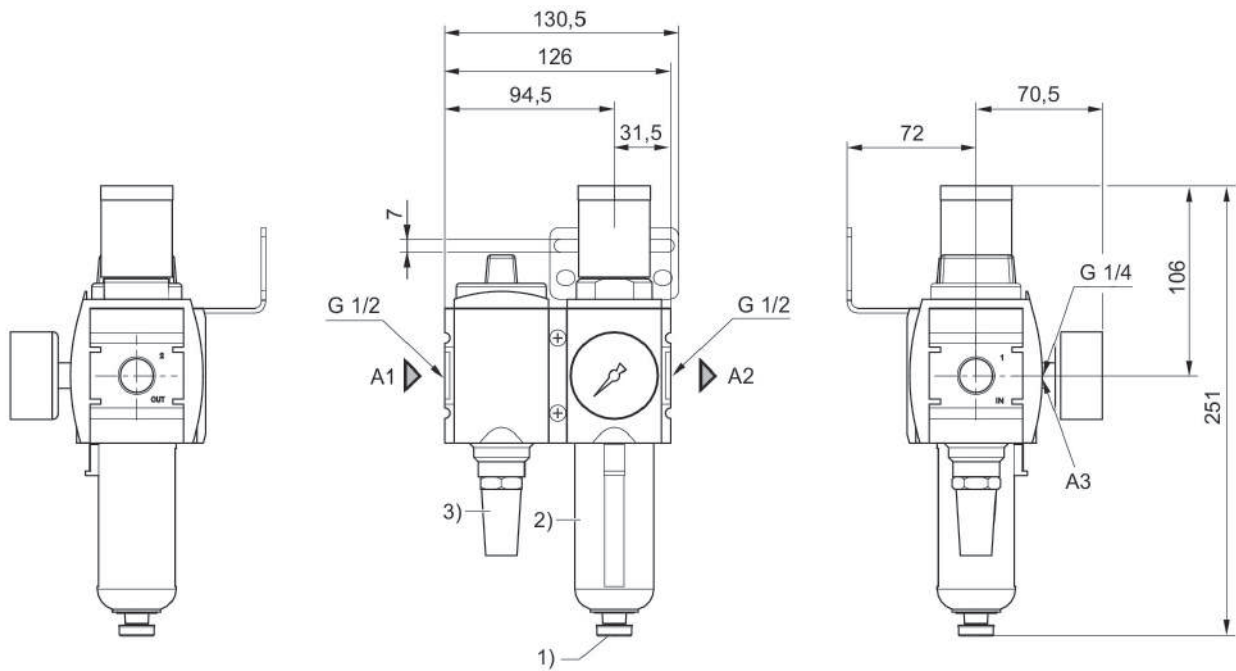
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A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Dimensions in mm



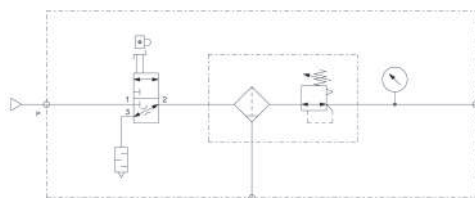
- A1 = input
A2 = output
A3 = pressure gauge connection
1) Semi-automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer

Dimensions in mm

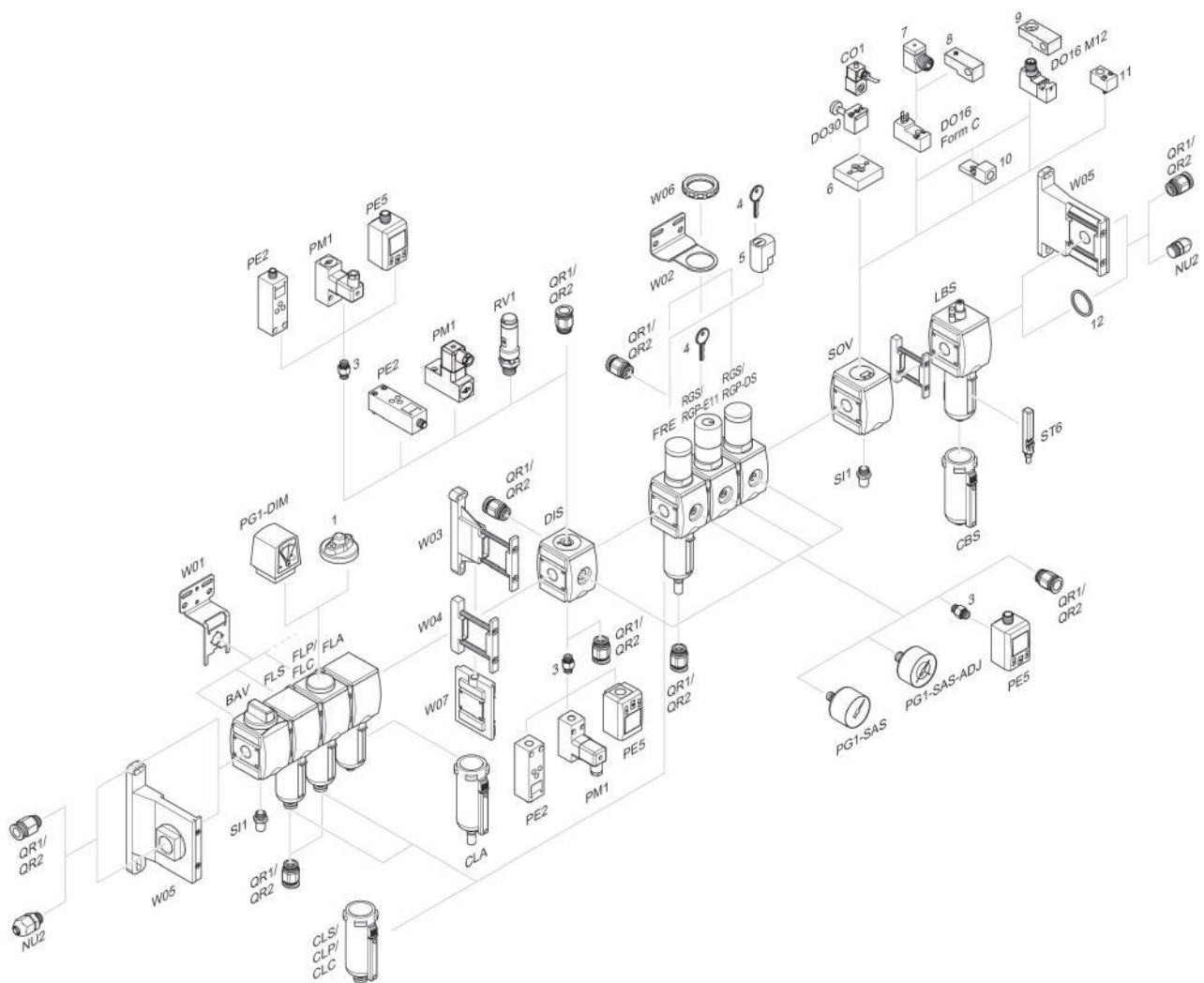
| Part No. | A1 | A2 | A3 | B | C | G | H1 | H3 | L1 |
|------------|-------|-------|-------|-------|----|-----|-----|----|------|
| R412027673 | G 1/2 | G 1/2 | G 1/2 | 130,5 | 72 | 126 | 251 | 7 | 31,5 |

| Part No. | L2 | M | V |
|------------|------|-----|------|
| R412027673 | 94,5 | 106 | 70,5 |

Block diagram



Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Air preparation unit, 2-part, Series AS3-ACC R412027674

General series information Series AS3

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Technical data

Industry
Industrial

Parts
Air preparation units
Shut-off valve
Filter pressure regulator

Port
G 1/2

Nominal flow Qn
5100 l/min

Filter porosity
5 µm

Condensate drain
fully automatic, open without pressure

Pressure gauge
with pressure gauge

Working pressure min.
1.5 bar

Working pressure max
16 bar

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Regulation range min.
0.5 bar

Regulation range max.
8 bar

Lock type
lockable

lockable
for padlocks

Type
2-part

Type
Can be assembled into blocks

Pressure supply
single

Mounting orientation
vertical

Regulator type
Diaphragm-type pressure regulator

Regulator function
with relieving air exhaust
Filter element
exchangeable
Filter reservoir volume
49 cm³

Max. achievable compressed air class acc. to
ISO 8573-1:2010
6 : 7 : -
Medium
Compressed air
Neutral gases
Weight
2.15 kg

Material

Housing material
Polyamide
Seal material
Acrylonitrile butadiene rubber
Material front plate
Acrylonitrile butadiene styrene
Material threaded bushing
Die cast zinc

Material reservoir
Polycarbonate
Material protective guard
Polyamide
Material filter insert
Polyethylene
Part No.
R412027674

Technical information

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

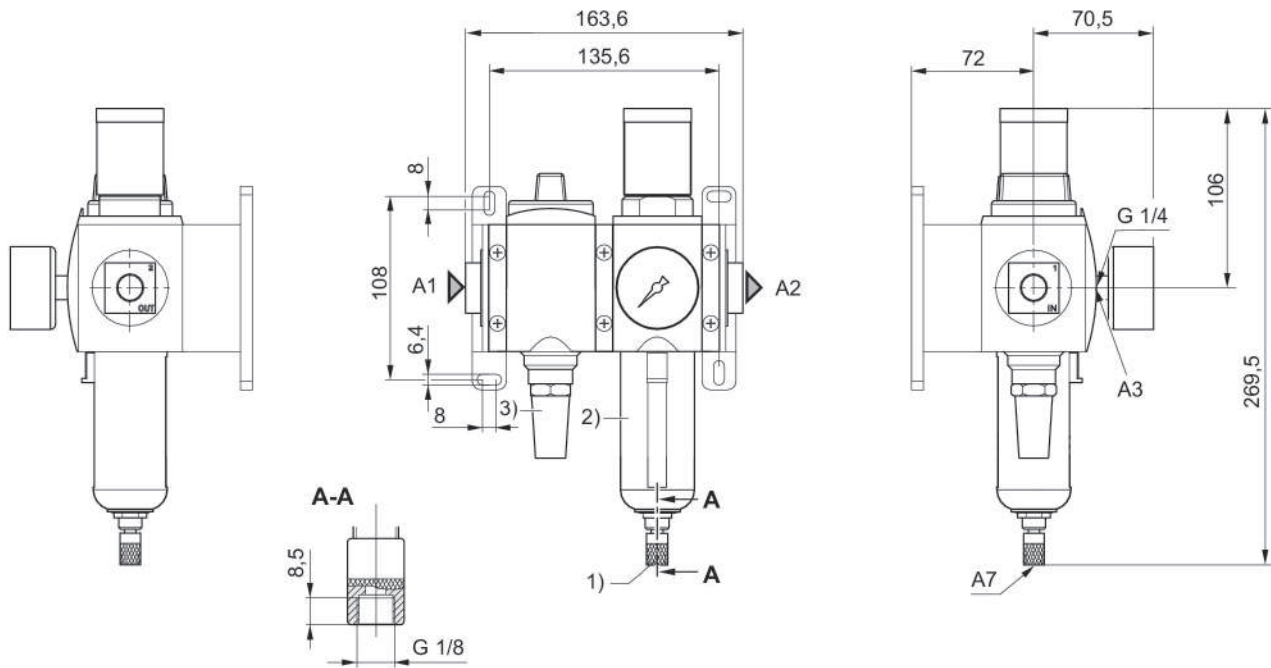
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Also suitable for separation of fluid oil or water due to the design.

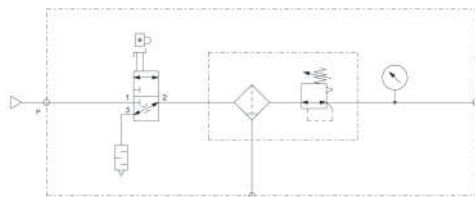
Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Dimensions in mm

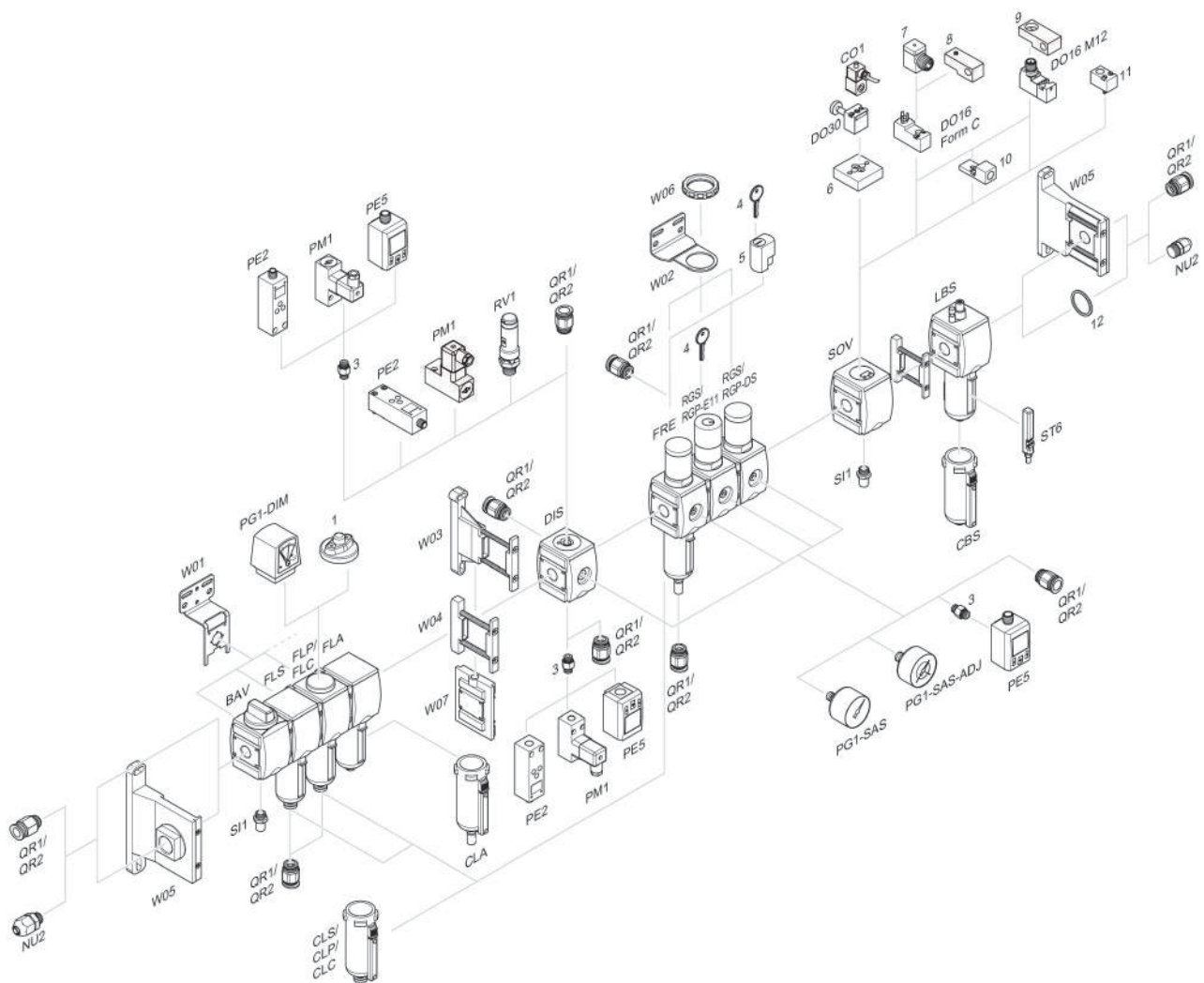


- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A7 = condensate drain
- 1) Fully automatic condensate drain
- 2) Plastic reservoir and protective guard with window
- 3) Silencer

Block diagram



Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring



Pressure regulator, Series AS3-RGS





- G 3/8 G 1/2
- Qn = 1600-5200 l/min
- Standard pressure regulator
- Activation Mechanical
- lockable
- for padlocks



| | |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Pressure regulator |
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function Adjustment range min./max. Lock type | See table below |
| Pressure supply | for padlocks |
| Activation | single |
| Weight | Mechanical |
| | See table below |

Technical data

| Part No. | | | Port | Flow | Working pressure min./max. | Adjustment range min./max. |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|------------|----------------------------|----------------------------|
| | | | | Qn | | |
| R412007101 |  |  | G 3/8 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007103 |  |  | G 3/8 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007105 |  |  | G 3/8 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007107 |  |  | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007109 |  |  | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007111 |  |  | G 3/8 | 3500 l/min | 0.5 ... 16 bar | 0.5 ... 16 bar |
| R412007100 |  | — | G 3/8 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007102 |  | — | G 3/8 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007104 |  | — | G 3/8 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007106 |  | — | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007108 |  | — | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007110 |  | — | G 3/8 | 3500 l/min | 0.5 ... 16 bar | 0.5 ... 16 bar |
| R412007113 |  |  | G 1/2 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007115 |  |  | G 1/2 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007117 |  |  | G 1/2 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007119 |  |  | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007121 |  |  | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007123 |  |  | G 1/2 | 4000 l/min | 0.5 ... 16 bar | 0.5 ... 16 bar |
| R412007112 |  | — | G 1/2 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007114 |  | — | G 1/2 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |

| Part No. | | | Port | Flow | Working pressure min./max. | Adjustment range min./max. |
|------------|-----------------------------------------------------------------------------------|---|-------|------------|----------------------------|----------------------------|
| | | | | Qn | | |
| R412007116 |  | — | G 1/2 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007118 |  | — | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007120 |  | — | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007122 |  | — | G 1/2 | 4000 l/min | 0.5 ... 16 bar | 0.5 ... 16 bar |

| Part No. | Pressure gauge | Weight | |
|------------|---------------------|----------|----|
| R412007101 | with pressure gauge | 0.6 kg | 1) |
| R412007103 | with pressure gauge | 0.6 kg | 1) |
| R412007105 | with pressure gauge | 0.6 kg | 1) |
| R412007107 | with pressure gauge | 0.6 kg | 1) |
| R412007109 | with pressure gauge | 0.6 kg | 1) |
| R412007111 | with pressure gauge | 0.6 kg | 1) |
| R412007100 | - | 0.528 kg | 2) |
| R412007102 | - | 0.528 kg | 2) |
| R412007104 | - | 0.528 kg | 2) |
| R412007106 | - | 0.528 kg | 2) |
| R412007108 | - | 0.528 kg | 2) |
| R412007110 | - | 0.528 kg | 2) |
| R412007113 | with pressure gauge | 0.6 kg | 1) |
| R412007115 | with pressure gauge | 0.6 kg | 1) |
| R412007117 | with pressure gauge | 0.6 kg | 1) |
| R412007119 | with pressure gauge | 0.6 kg | 1) |
| R412007121 | with pressure gauge | 0.6 kg | 1) |
| R412007123 | with pressure gauge | 0.6 kg | 1) |
| R412007112 | - | 0.528 kg | 2) |
| R412007114 | - | 0.528 kg | 2) |
| R412007116 | - | 0.528 kg | 2) |
| R412007118 | - | 0.528 kg | 2) |
| R412007120 | - | 0.528 kg | 2) |
| R412007122 | - | 0.528 kg | 2) |

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

- 1) Pressure gauge enclosed separately.
- 2) Order pressure gauge separately.

Technical information

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).

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

Relieving exhaust (≤ 0.3 bar over set pressure).

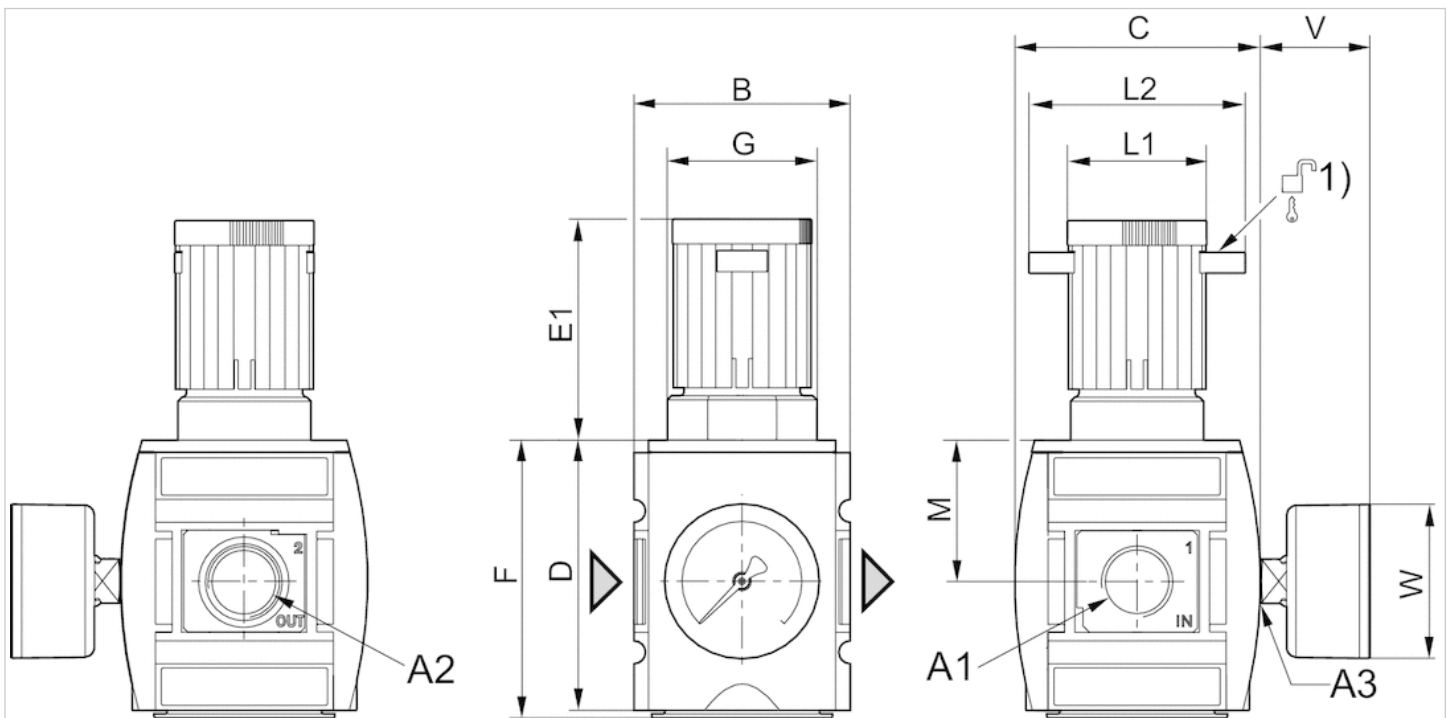
With rear exhaust (> 3 bar).

Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

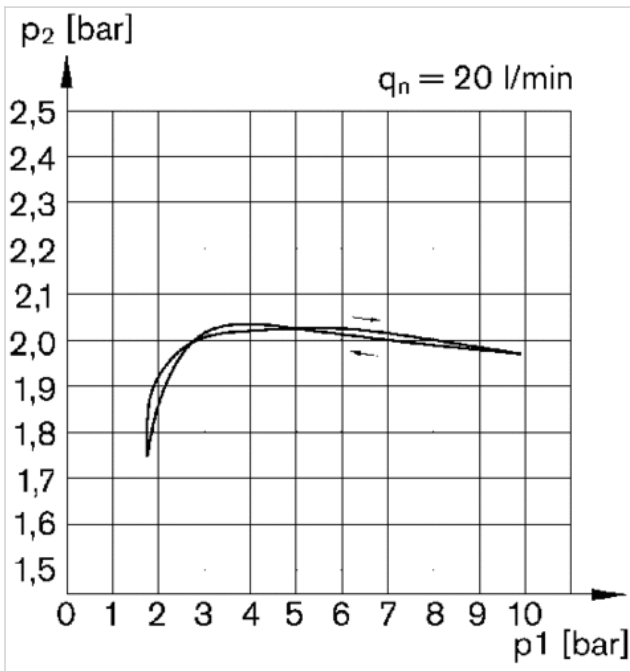
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | F | G | L1 | L2 | M | V | W |
|-------|-------|-------|----|----|----|------|----|---------|----|----|------|----|----|
| G 3/8 | G 3/8 | G 1/4 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 | 33 | 50 |

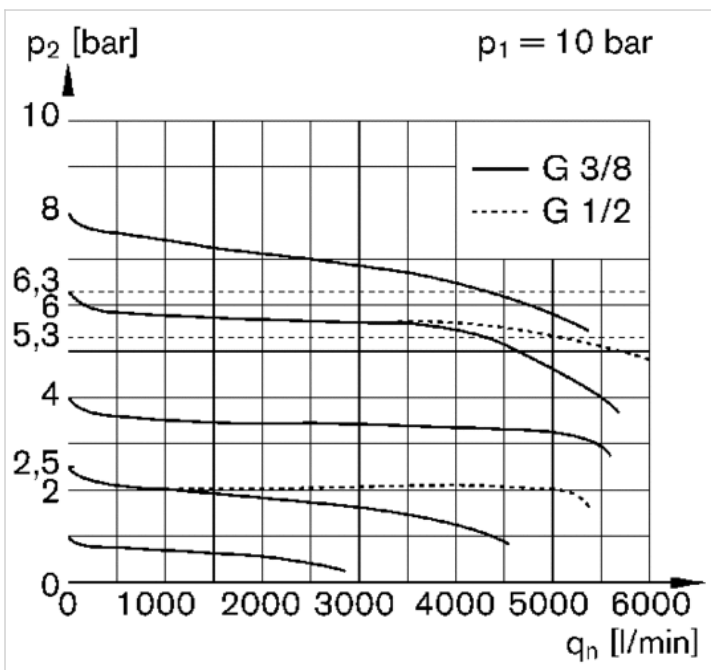
Diagrams

Pressure characteristics curve, Standard version



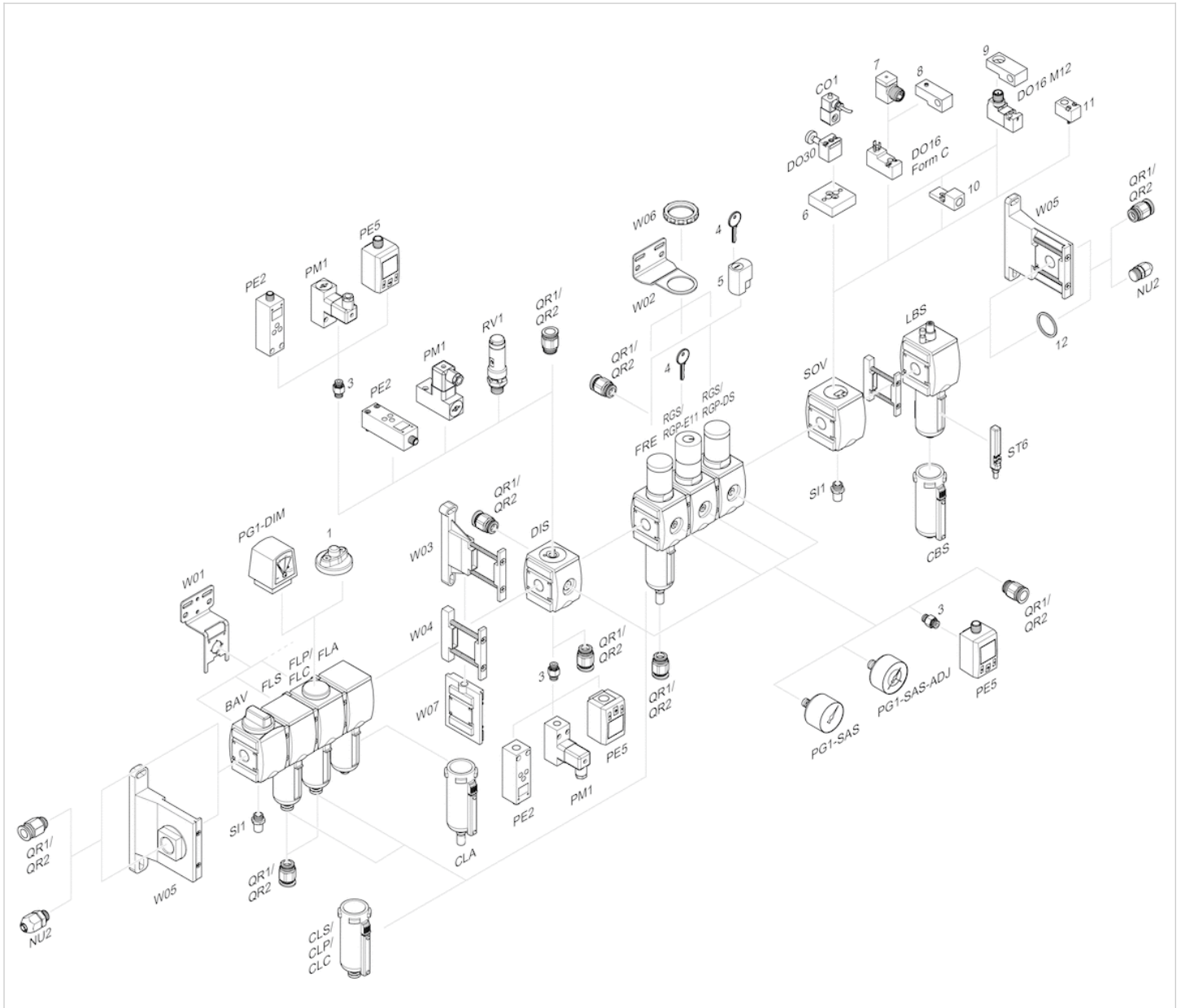
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 0,5 - 8 bar)



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

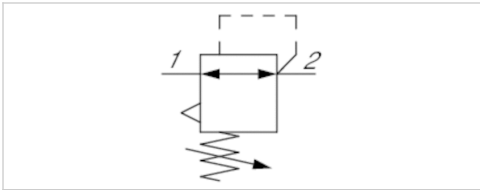
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Pressure regulator, Series AS3-RGS-...-E11

- G 1/2
- Qn = 5200 l/min
- Standard pressure regulator
- Activation Mechanical
- lockable
- with E11 locking



| | |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Pressure regulator |
| Mounting orientation | Any |
| Working pressure min./max. | 0.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.5 ... 10 bar |
| Lock type | with E11 locking |
| Pressure supply | single |
| Activation | Mechanical |
| Weight | 0.528 kg |

Technical data

| Part No. | Port | Flow |
|------------|-------|------------|
| | | Qn |
| R412007099 | G 1/2 | 5200 l/min |

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Technical information

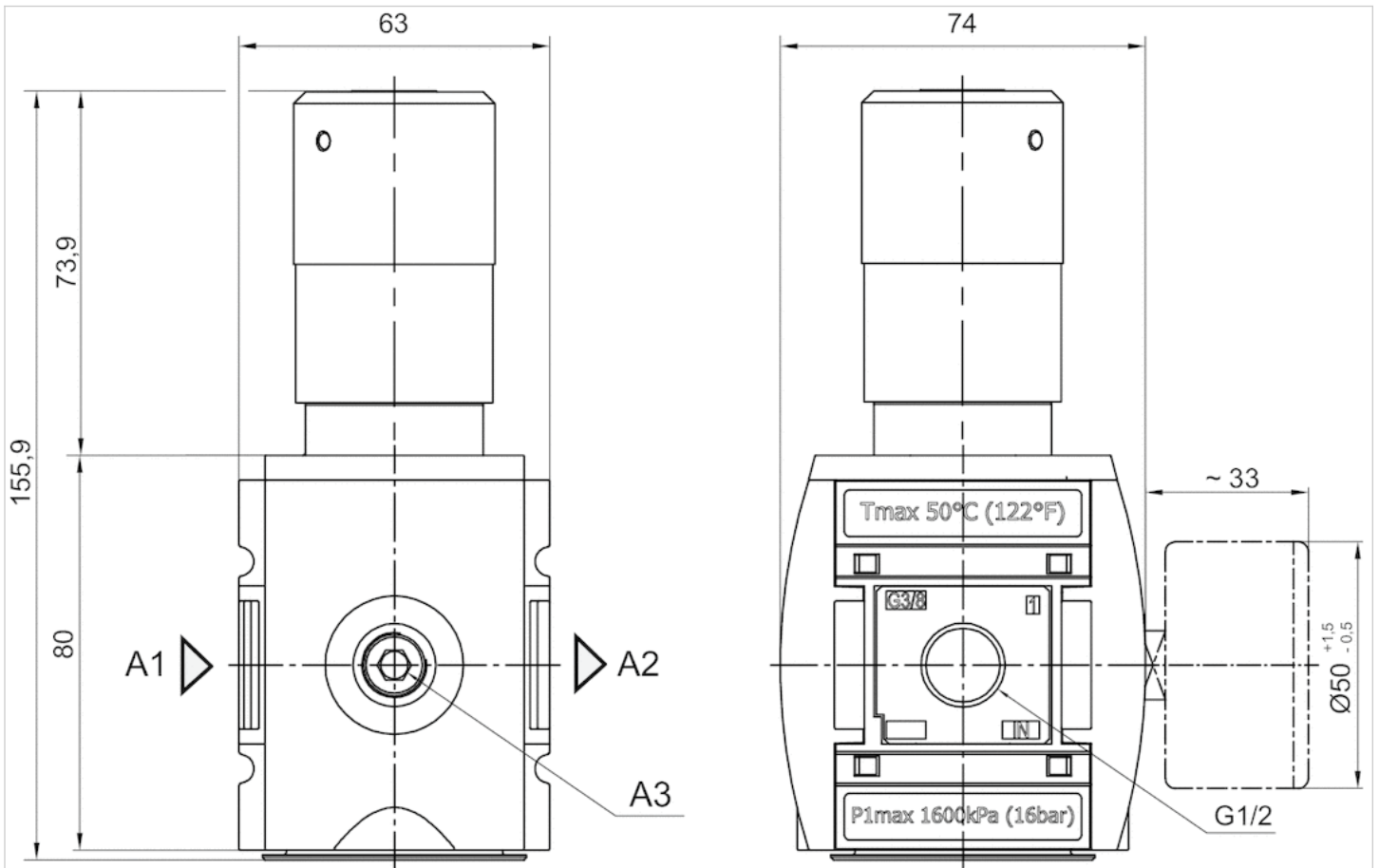
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
 A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.
 The E11 locking is delivered without a key (see accessories for keys).
 Relieving exhaust (≤ 0.3 bar over set pressure).
 With rear exhaust (> 3 bar).

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

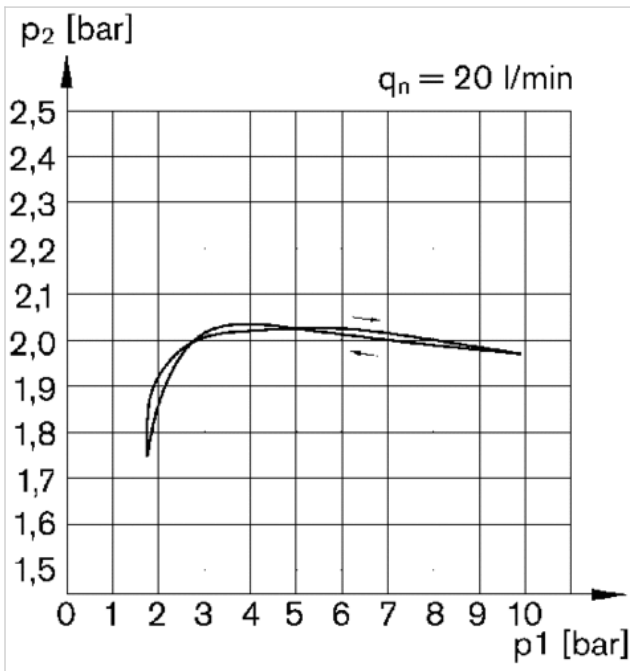
Dimensions



- A1 = input
- A2 = output
- A3 = pressure gauge connection

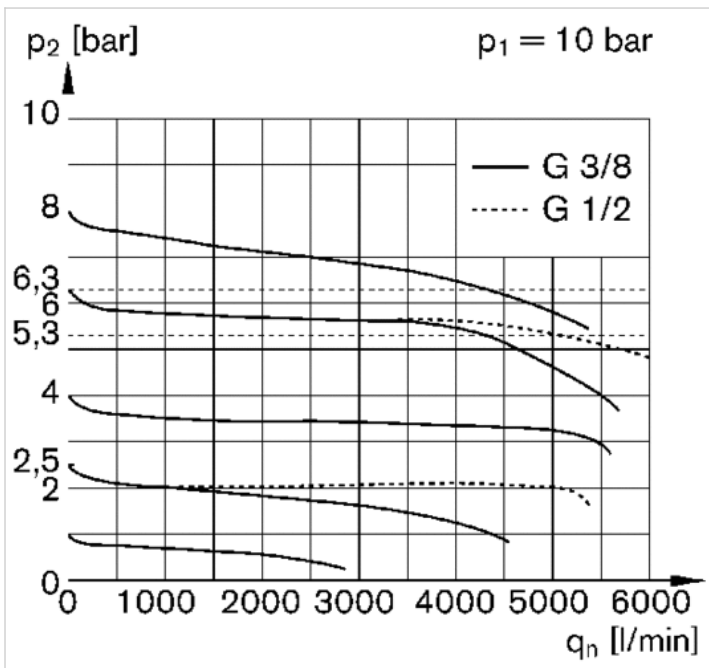
Diagrams

Pressure characteristics curve, Standard version



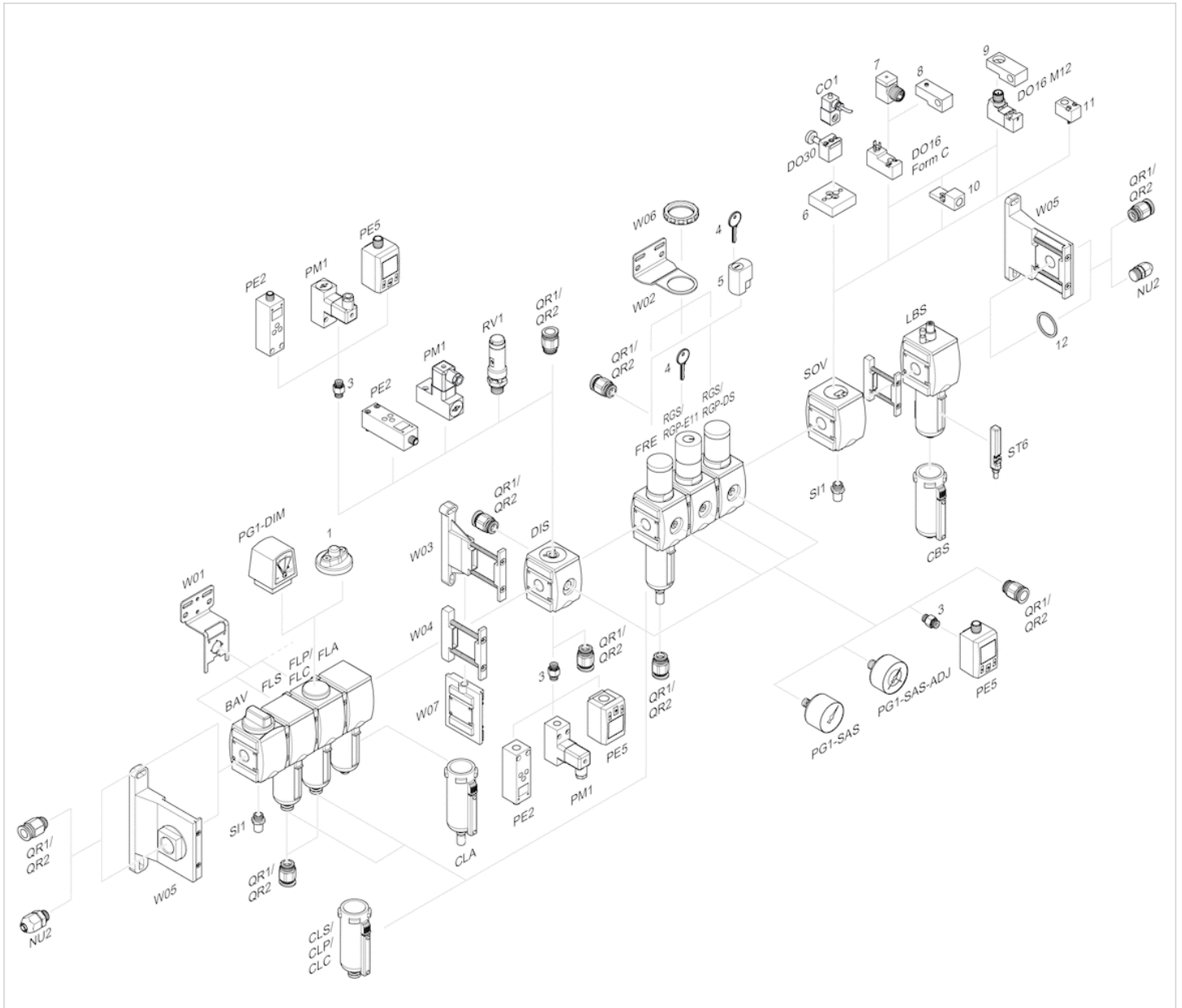
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 0,5 - 8 bar)



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

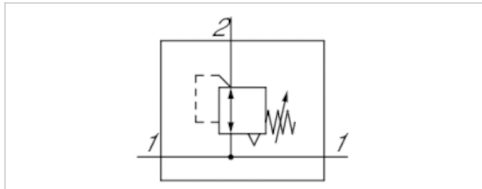
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Pressure regulator, Series AS3-RGS-...-DS

- G 3/8 G 1/2
- Qn = 1600-5200 l/min
- Standard pressure regulator
- Activation Mechanical
- with continuous pressure supply
- lockable
- for padlocks



| | |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Pressure regulator with continuous pressure supply |
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function Adjustment range min./max. Lock type | See table below |
| Pressure supply | for padlocks |
| Activation | double |
| Weight | Mechanical 0.528 kg |

Technical data

| Part No. | Port | Flow | Working pressure min./max. | Adjustment range min./max. |
|------------|-------|------------|----------------------------|----------------------------|
| | | Qn | | |
| R412007124 | G 3/8 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007125 | G 3/8 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007126 | G 3/8 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007127 | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007128 | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007129 | G 3/8 | 3500 l/min | 0.5 ... 16 bar | 0.5 ... 16 bar |
| R412007130 | G 1/2 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007131 | G 1/2 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007132 | G 1/2 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007133 | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007134 | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007135 | G 1/2 | 4000 l/min | 0.5 ... 16 bar | 0.5 ... 16 bar |

| Part No. | Max. pressure gauge Ø in blocked state |
|------------|----------------------------------------|
| R412007124 | 50 mm |

| Part No. | Max. pressure gauge Ø in blocked state |
|------------|----------------------------------------|
| R412007125 | 50 mm |
| R412007126 | 50 mm |
| R412007127 | 50 mm |
| R412007128 | 50 mm |
| R412007129 | 50 mm |
| R412007130 | 50 mm |
| R412007131 | 50 mm |
| R412007132 | 50 mm |
| R412007133 | 50 mm |
| R412007134 | 50 mm |
| R412007135 | 50 mm |

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

Order pressure gauge separately.

Technical information

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).

Relieving exhaust (≤ 0.3 bar over set pressure).

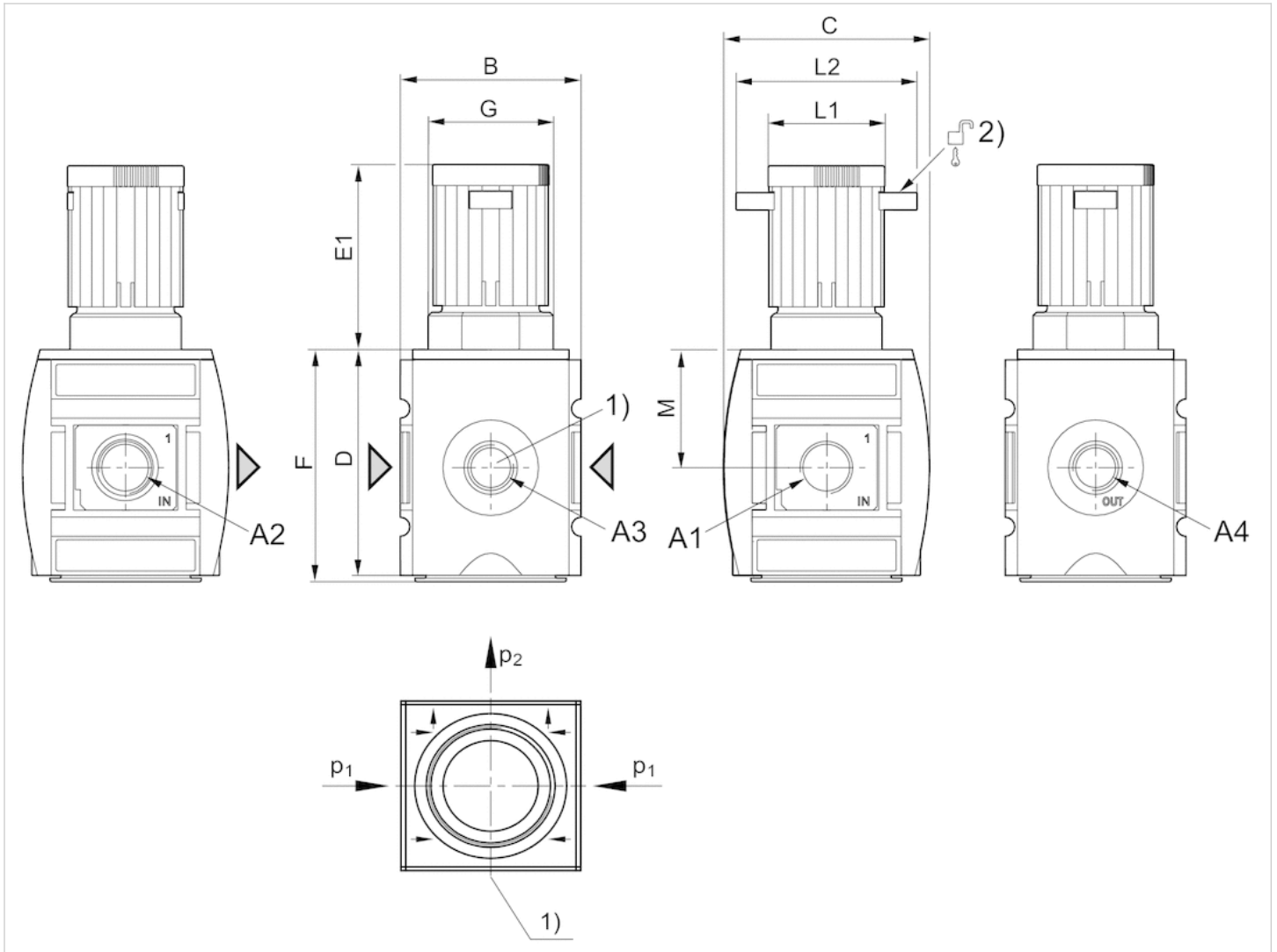
With rear exhaust (> 3 bar).

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



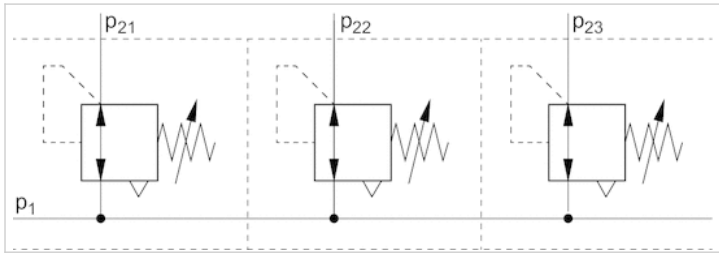
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = output
- 1) Pressure gauge connection
- 2) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A1 | A2 | A3 | A4 | B | C | D | E1 | F | G | L1 | L2 | M |
|-------|-------|-------|-------|----|----|----|------|----|---------|----|----|------|
| G 3/8 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 3/8 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 |

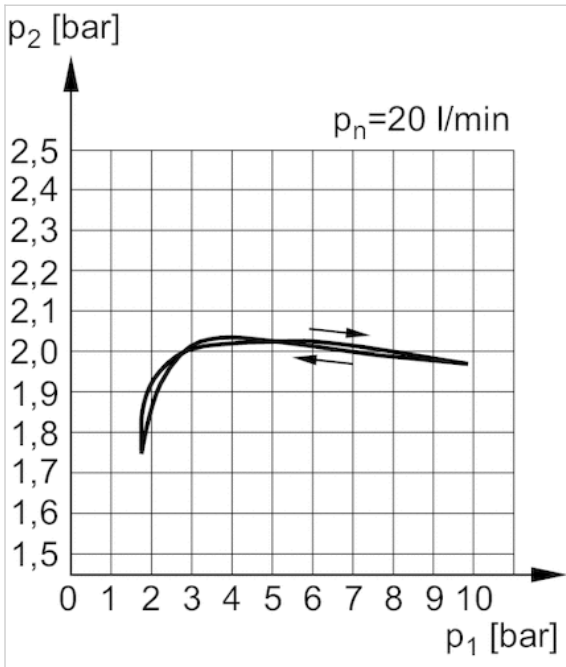
Diagrams

Application example

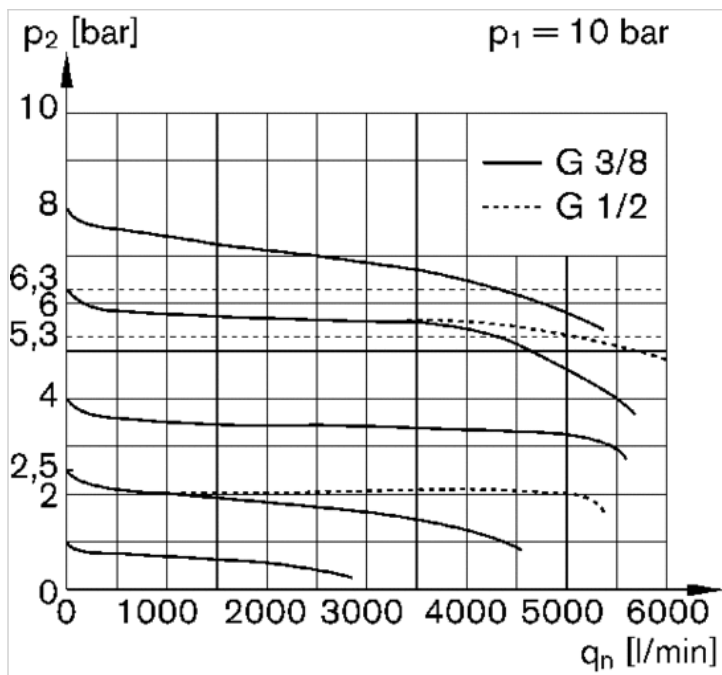


p_1 = working pressure

Pressure characteristics curve

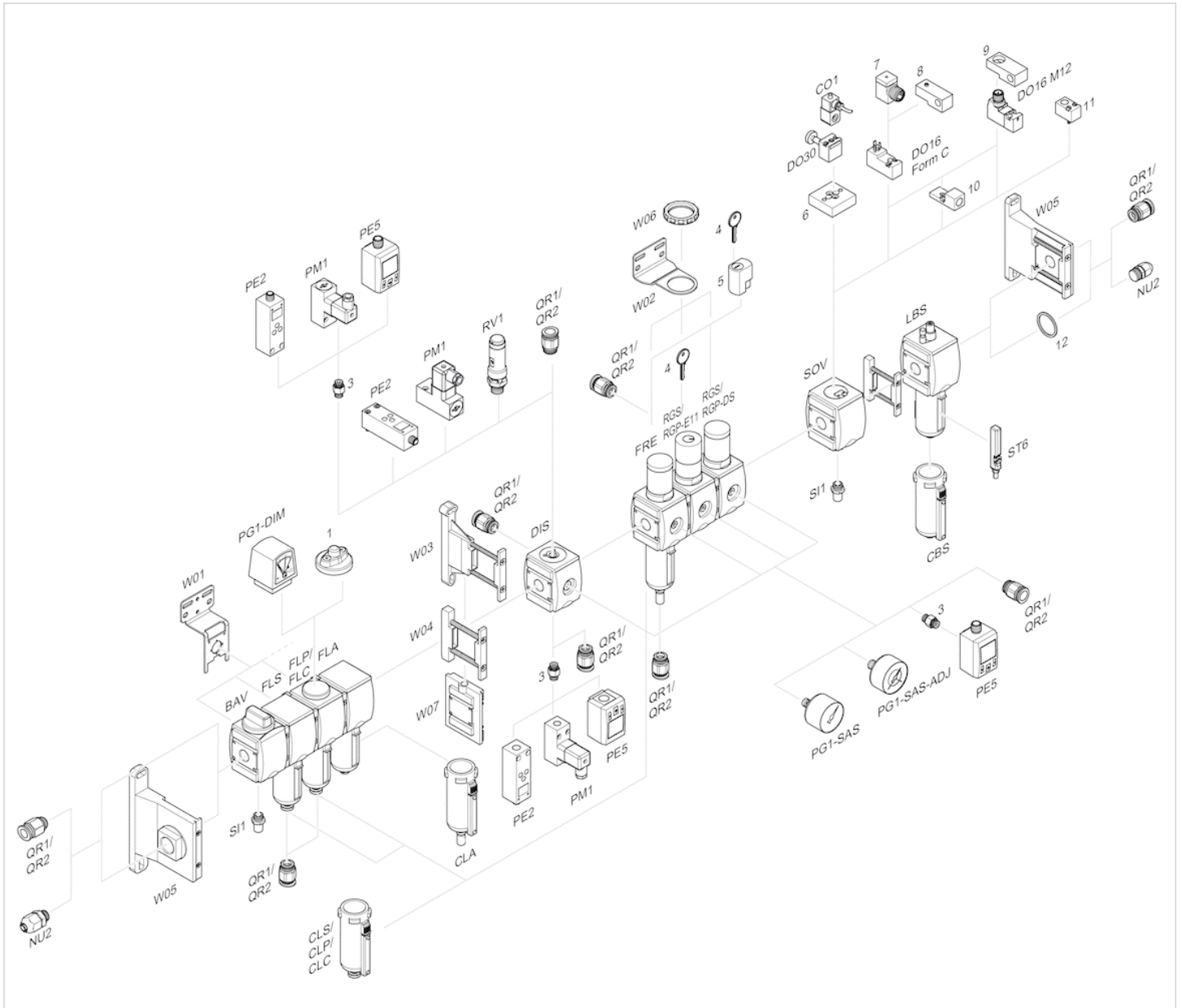


p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 0,5 - 8 bar)

p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Precision pressure regulator, Series AS3-RGP




- G 3/8 G 1/2
- Qn = 1600-5200 l/min
- Precision pressure regulator
- Activation Mechanical
- lockable
- for padlocks



| | |
|----------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Precision pressure regulator |
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function | See table below |
| Adjustment range min./max. | See table below |
| Lock type | for padlocks |
| Pressure supply | single |
| Activation | Mechanical |
| Internal air consumption qv max. | 2.6 l/min |
| Weight | See table below |

Technical data

| Part No. | | | Port | Flow | Working pressure min./max. | Adjustment range min./max. |
|------------|--|---|-------|------------|----------------------------|----------------------------|
| | | | | Qn | | |
| R412007136 | | — | G 3/8 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007137 | | | G 3/8 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007138 | | — | G 3/8 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007139 | | | G 3/8 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007140 | | — | G 3/8 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007141 | | | G 3/8 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007142 | | — | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007143 | | | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007144 | | — | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007145 | | | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007148 | | — | G 1/2 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007149 | | | G 1/2 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007150 | | — | G 1/2 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007151 | | | G 1/2 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007152 | | — | G 1/2 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007153 | | | G 1/2 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007154 | | — | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007155 | | | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |

| Part No. | | | Port | Flow | Working pressure min./max. | Adjustment range min./max. |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|------------|----------------------------|----------------------------|
| | | | | Qn | | |
| R412007156 |  | — | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007157 |  |  | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |

| Part No. | Pressure gauge | Weight | |
|------------|---------------------|----------|----|
| R412007136 | - | 0.528 kg | 1) |
| R412007137 | with pressure gauge | 0.6 kg | 2) |
| R412007138 | - | 0.528 kg | 1) |
| R412007139 | with pressure gauge | 0.6 kg | 2) |
| R412007140 | - | 0.528 kg | 1) |
| R412007141 | with pressure gauge | 0.6 kg | 2) |
| R412007142 | - | 0.528 kg | 1) |
| R412007143 | with pressure gauge | 0.6 kg | 2) |
| R412007144 | - | 0.528 kg | 1) |
| R412007145 | with pressure gauge | 0.6 kg | 2) |
| R412007148 | - | 0.528 kg | 1) |
| R412007149 | with pressure gauge | 0.6 kg | 2) |
| R412007150 | - | 0.528 kg | 1) |
| R412007151 | with pressure gauge | 0.6 kg | 2) |
| R412007152 | - | 0.528 kg | 1) |
| R412007153 | with pressure gauge | 0.6 kg | 2) |
| R412007154 | - | 0.528 kg | 1) |
| R412007155 | with pressure gauge | 0.6 kg | 2) |
| R412007156 | - | 0.528 kg | 1) |
| R412007157 | with pressure gauge | 0.6 kg | 2) |

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

- 1) Order pressure gauge separately.
- 2) Pressure gauge enclosed separately.

Technical information

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).

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

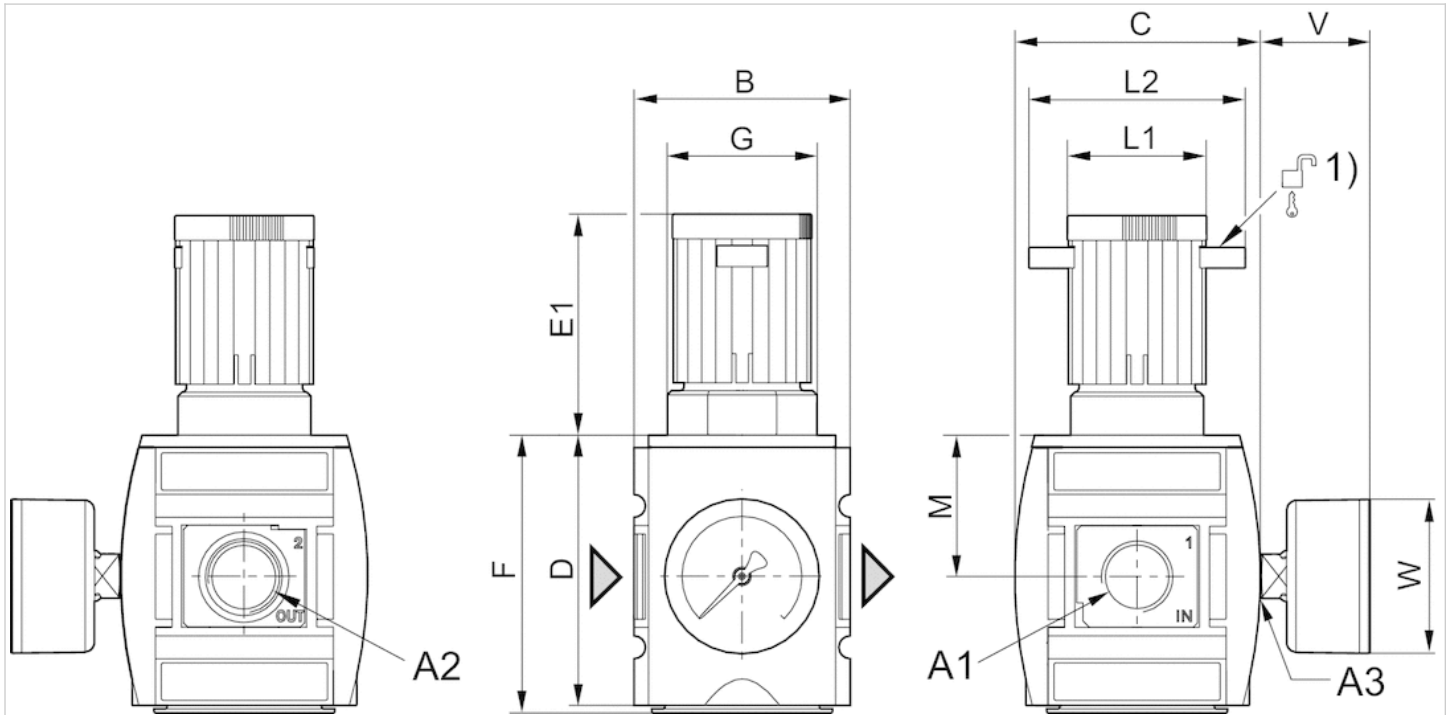
Recommended pre-filter: 5 µm

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



A1 = input

A2 = output

A3 = pressure gauge connection

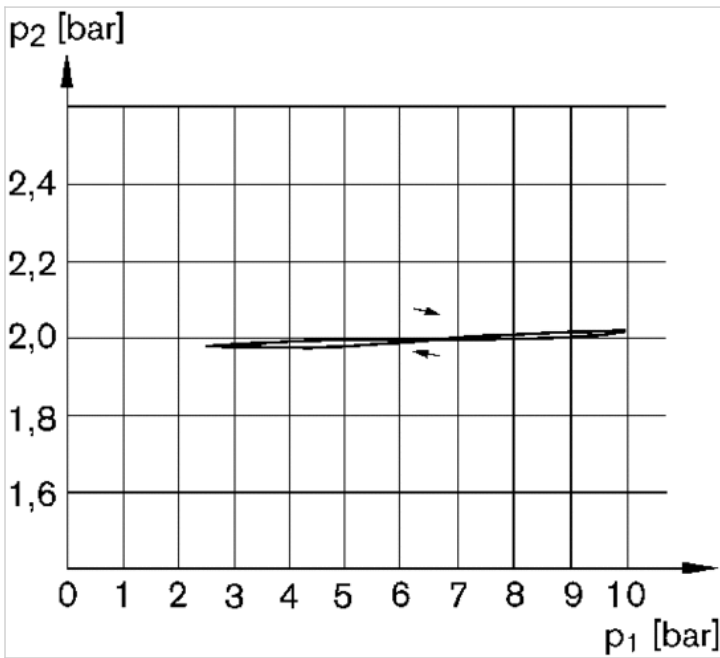
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | F | G | L1 | L2 | M | V | W |
|-------|-------|-------|----|----|----|------|----|---------|----|----|------|----|----|
| G 3/8 | G 3/8 | G 1/4 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 | 33 | 50 |

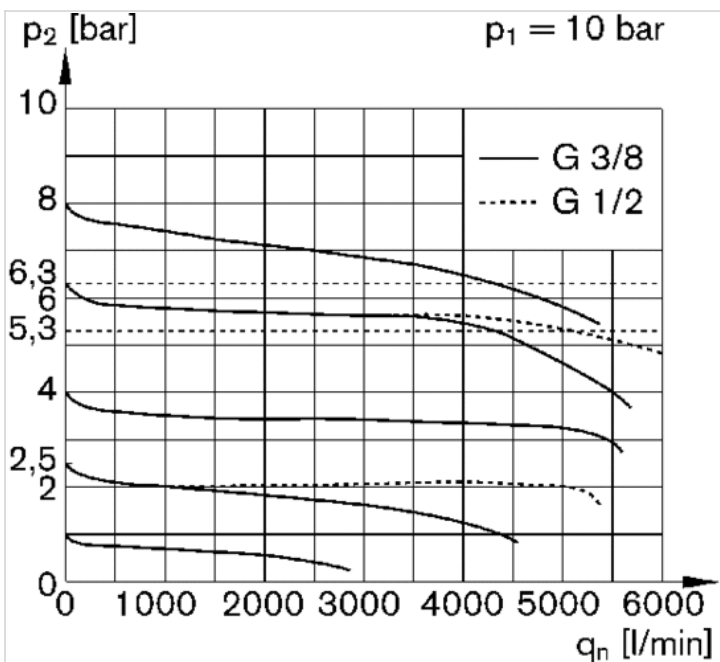
Diagrams

Pressure characteristics curve



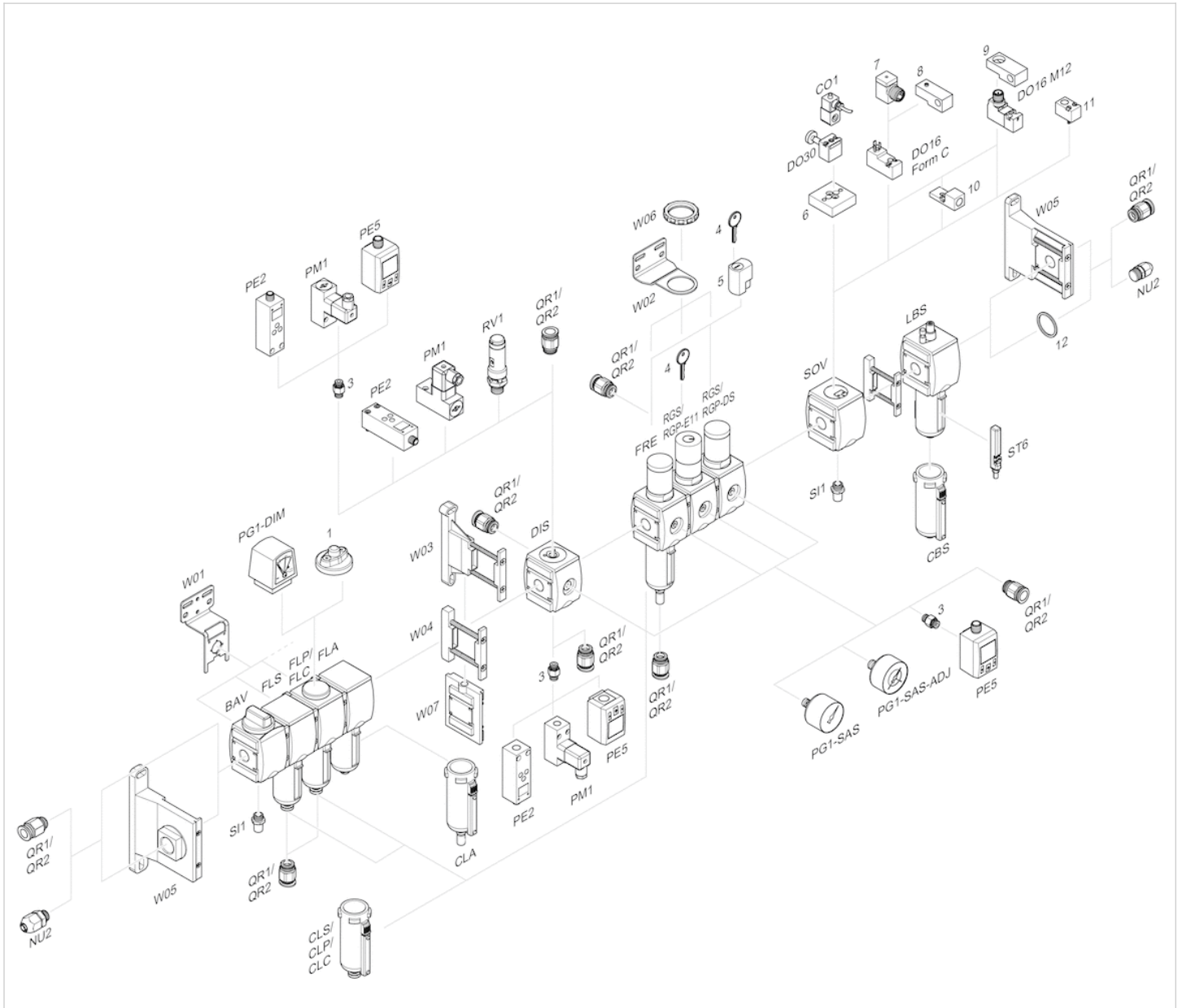
p1 = working pressure
p2 = secondary pressure

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



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

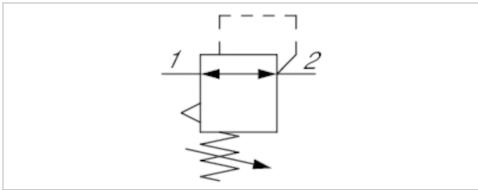
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Precision pressure regulator, Series AS3-RGP-...-E11

- G 1/2
- Qn = 5000 l/min
- Precision pressure regulator
- Activation Mechanical
- lockable
- with E11 locking



| | |
|----------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Precision pressure regulator |
| Mounting orientation | Any |
| Working pressure min./max. | 0.2 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.2 ... 4 bar |
| Lock type | with E11 locking |
| Pressure supply | single |
| Activation | Mechanical |
| Internal air consumption qv max. | 2.6 l/min |
| Weight | 0.528 kg |

Technical data

| Part No. | Port | Flow |
|------------|-------|------------|
| | | Qn |
| R412007158 | G 1/2 | 5000 l/min |

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Technical information

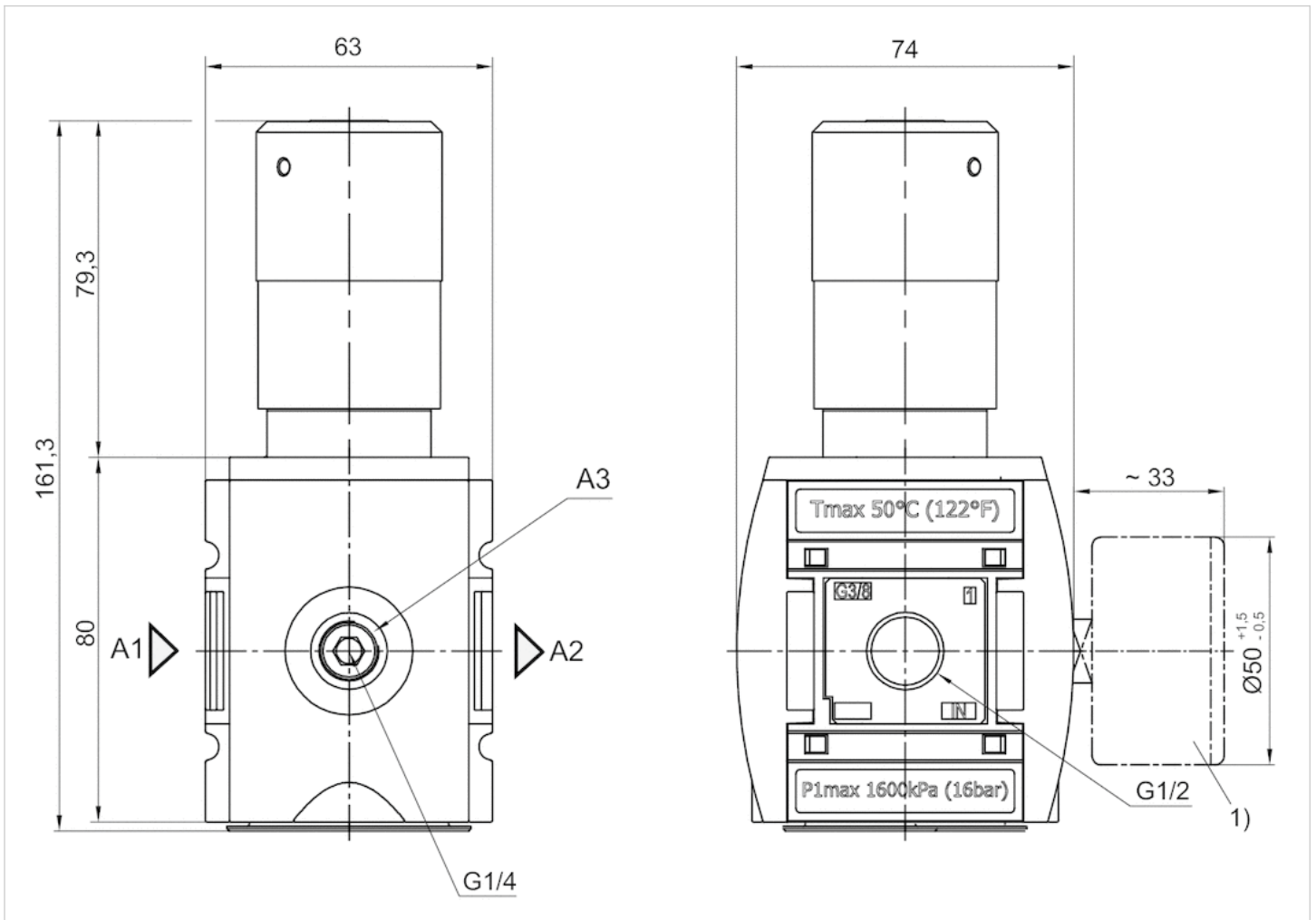
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).
 A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.
 Recommended pre-filter: 5 µm
 The E11 locking is delivered without a key (see accessories for keys).

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

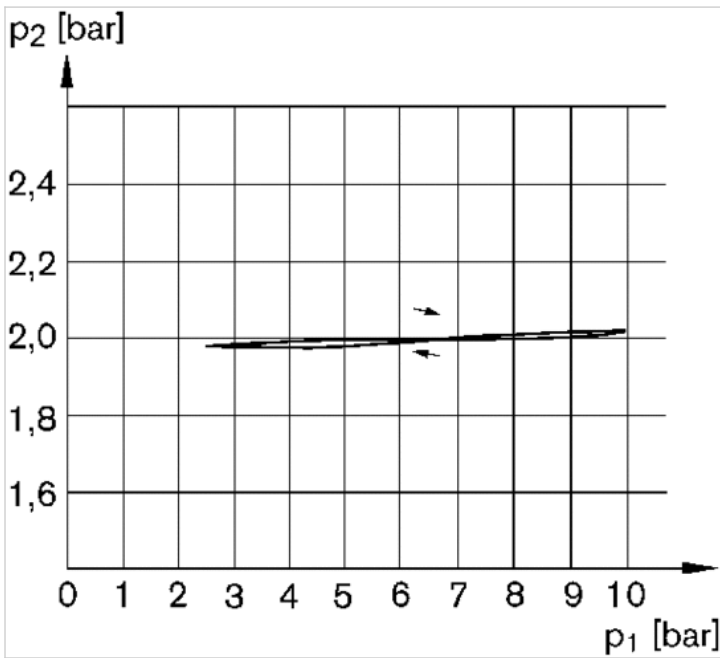
Dimensions



1) Order pressure gauge separately

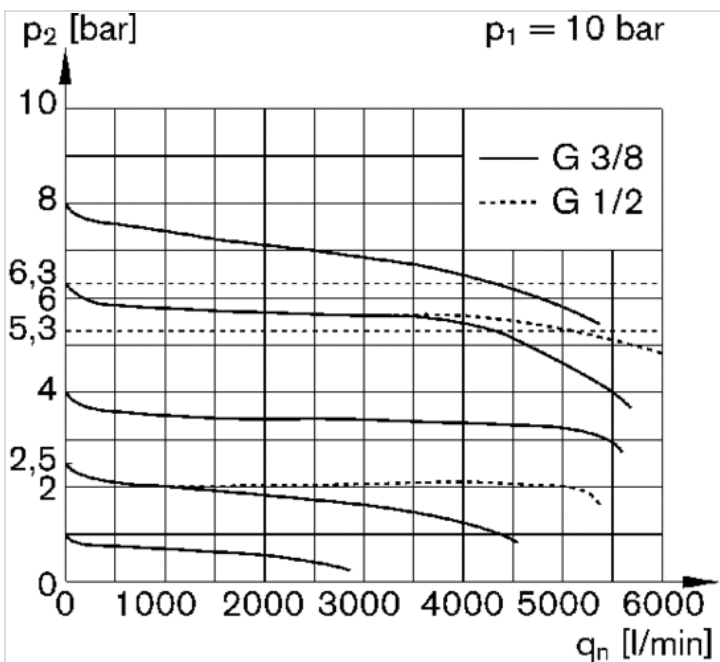
Diagrams

Pressure characteristics curve



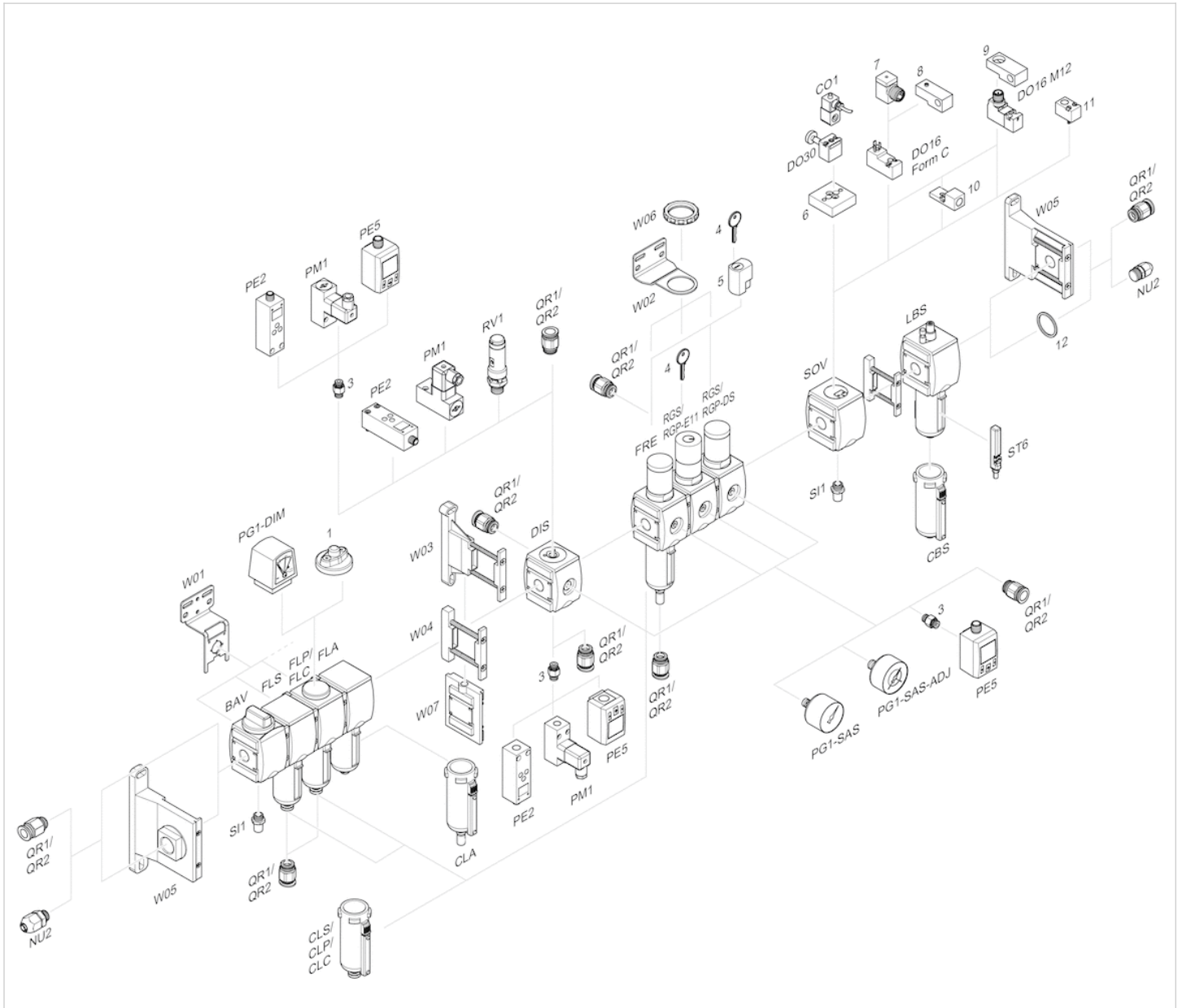
p1 = working pressure
p2 = secondary pressure

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



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

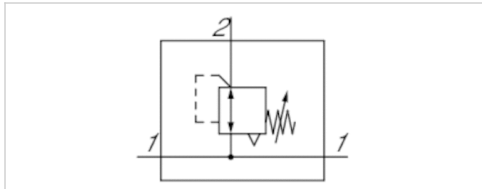
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Precision pressure regulator, Series AS3-RGP-...-DS

- G 3/8 G 1/2
- Qn = 1600-5200 l/min
- Precision pressure regulator
- Activation Mechanical
- with continuous pressure supply
- lockable
- for padlocks



| | |
|----------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Precision pressure regulator with continuous pressure supply |
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function | See table below |
| Adjustment range min./max. | See table below |
| Lock type | for padlocks |
| Pressure supply | double |
| Activation | Mechanical |
| Internal air consumption qv max. | 2.6 l/min |
| Weight | 0.528 kg |

Technical data

| Part No. | Port | Flow | Working pressure min./max. | Adjustment range min./max. |
|------------|-------|------------|----------------------------|----------------------------|
| | | Qn | | |
| R412007160 | G 3/8 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007161 | G 3/8 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007162 | G 3/8 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007163 | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007164 | G 3/8 | 4300 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |
| R412007166 | G 1/2 | 1600 l/min | 0.1 ... 16 bar | 0.1 ... 1 bar |
| R412007167 | G 1/2 | 4600 l/min | 0.1 ... 16 bar | 0.1 ... 2 bar |
| R412007168 | G 1/2 | 5000 l/min | 0.2 ... 16 bar | 0.2 ... 4 bar |
| R412007169 | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 8 bar |
| R412007170 | G 1/2 | 5200 l/min | 0.5 ... 16 bar | 0.5 ... 10 bar |

| Part No. | Max. pressure gauge Ø in blocked state |
|------------|----------------------------------------|
| R412007160 | 50 mm |
| R412007161 | 50 mm |
| R412007162 | 50 mm |

| Part No. | Max. pressure gauge Ø in blocked state |
|------------|----------------------------------------|
| R412007163 | 50 mm |
| R412007164 | 50 mm |
| R412007166 | 50 mm |
| R412007167 | 50 mm |
| R412007168 | 50 mm |
| R412007169 | 50 mm |
| R412007170 | 50 mm |

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

Order pressure gauge separately.

Technical information

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).

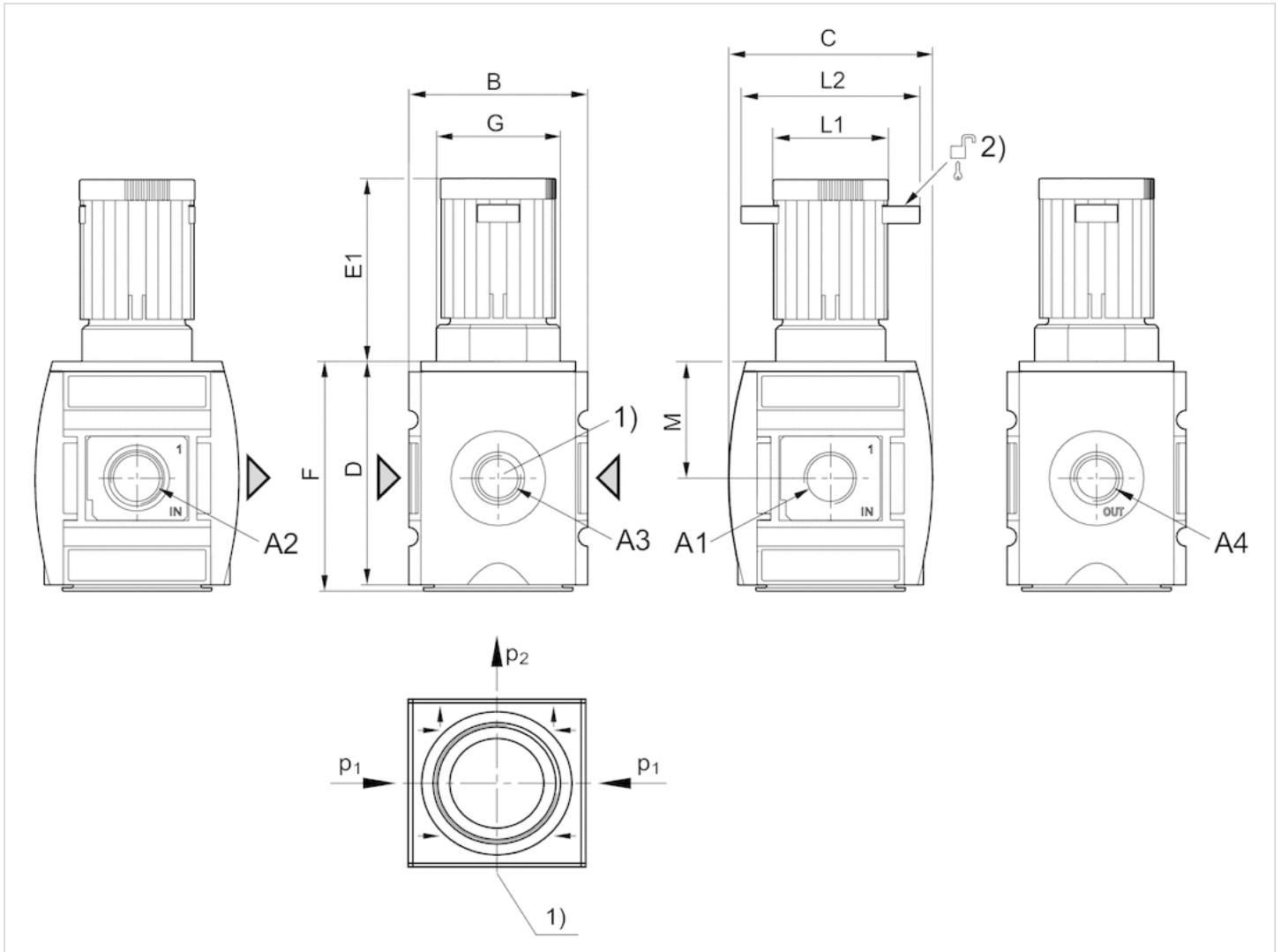
Recommended pre-filter: 5 µm

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



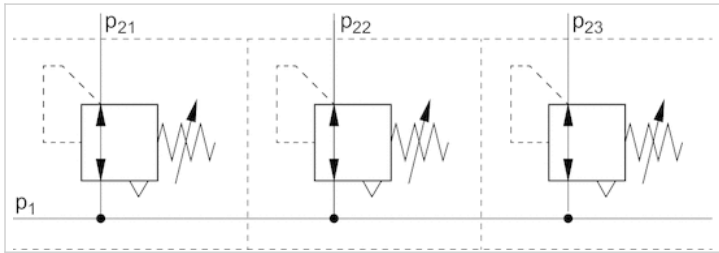
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = output
- 1) Pressure gauge connection
- 2) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| | | | | | | | | | | | | |
|-------|-------|-------|-------|----|----|------|------|---------|---------|----|------|------------|
| G 1/2 | G 1/4 | G 3/8 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 | R412007168 |
| G 3/8 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 3/8 | 63 | 74 | 80 | 63.5 | 82 | M42x1,5 | 41 | 60 | 42.5 |

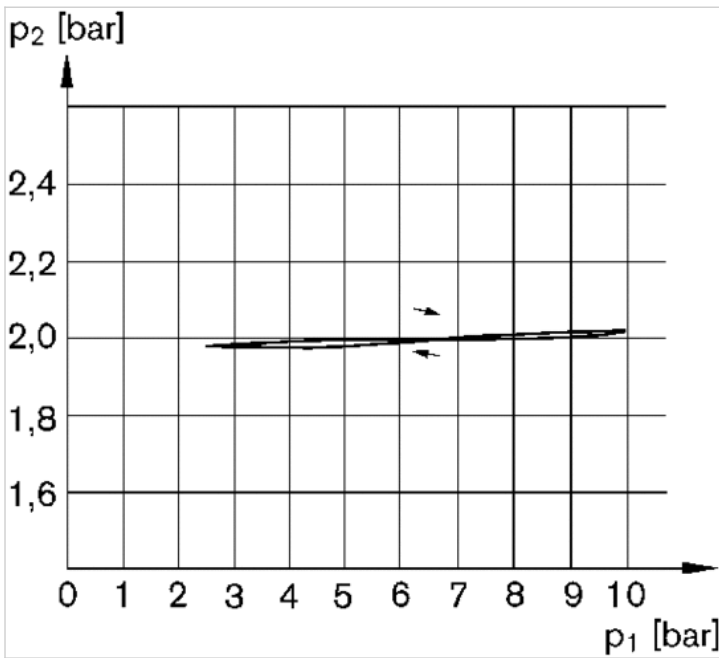
Diagrams

Application example



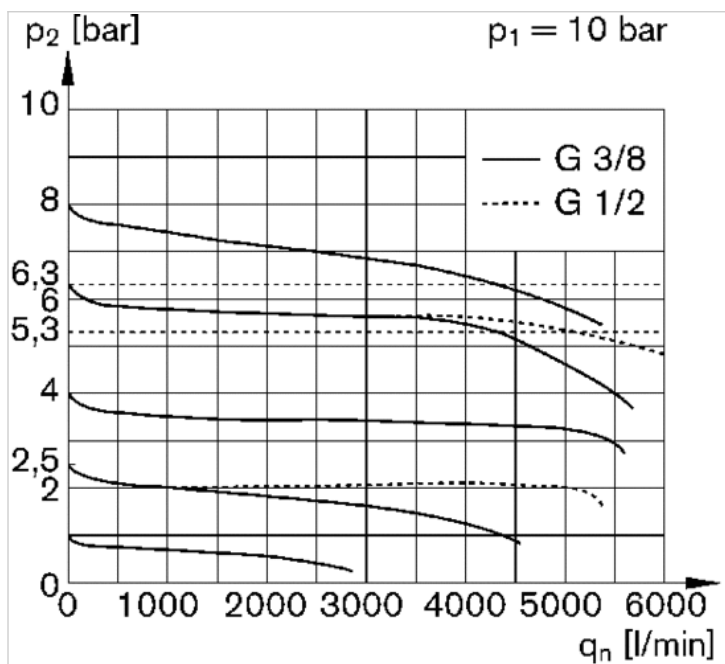
p_1 = working pressure

Pressure characteristics curve



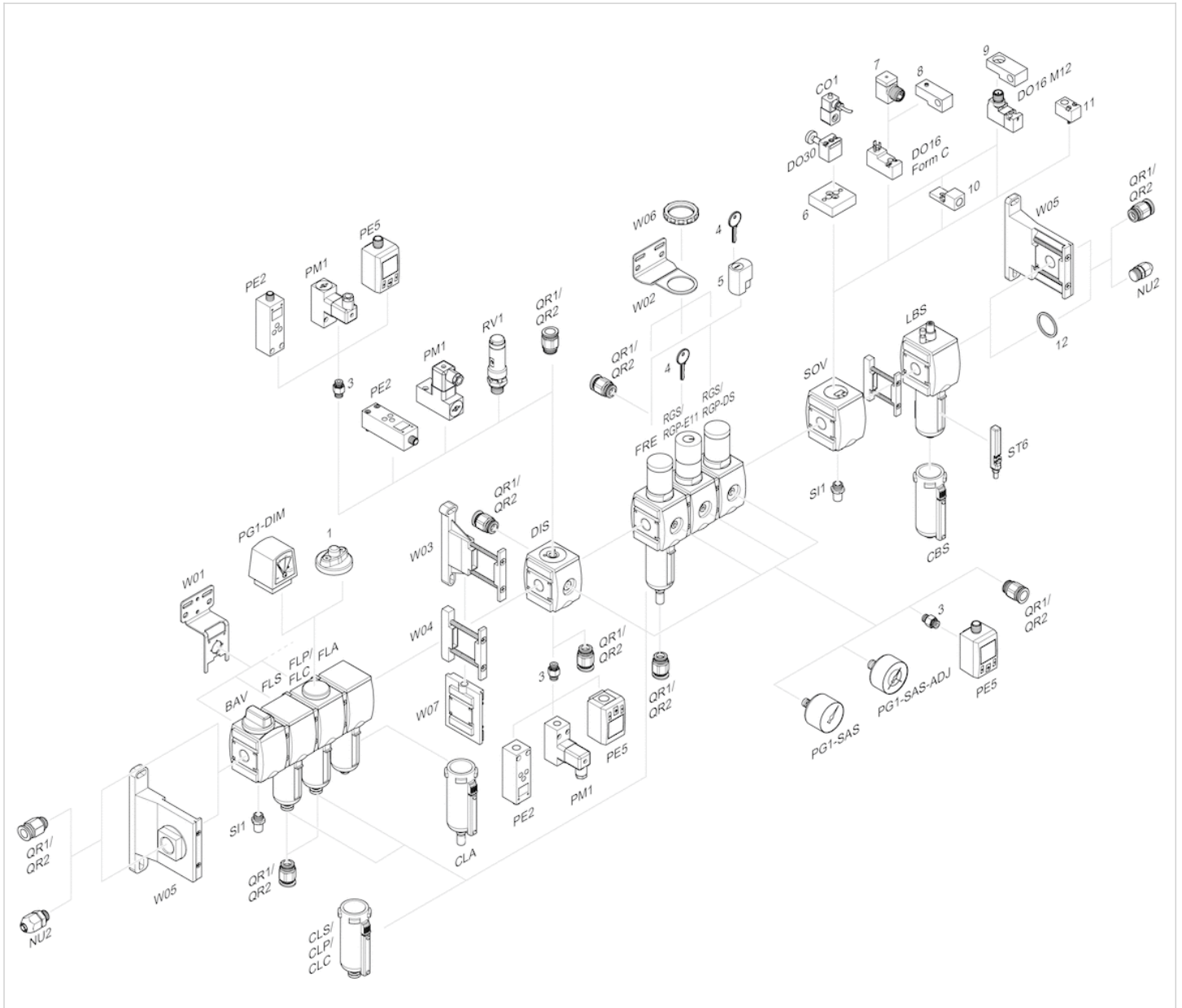
p_1 = working pressure
 p_2 = secondary pressure

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



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

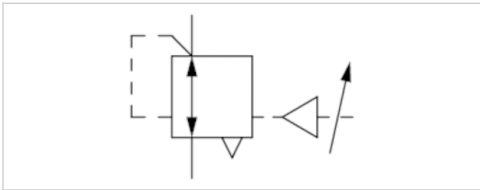
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Pressure regulator, Series AS3-RGS

- G 3/8 G 1/2
- $Q_n = 6500 \text{ l/min}$
- Standard pressure regulator
- Activation pneumatically



| | |
|-------------------------------|-------------------------------------------------------------------------------------------|
| Parts | Pressure regulator |
| Mounting orientation | Any |
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | 0 ... 50 °C |
| Medium temperature min./max. | 0 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Regulator type | Diaphragm-type pressure regulator Can be assembled into blocks with relieving air exhaust |
| Regulator function | |
| Adjustment range min./max. | 0.5 ... 16 bar |
| Pressure supply | single |
| Activation | pneumatically |
| Weight | 0.579 kg |

Technical data

| Part No. | Port | Flow |
|------------|-------|------------|
| | | Q_n |
| R412007094 | G 3/8 | 6500 l/min |
| R412007095 | G 1/2 | 6500 l/min |

Control pressure: see diagram, Nominal flow Q_n with secondary pressure $p_2 = 6 \text{ bar}$ at $\Delta p = 1 \text{ bar}$

Order pressure gauge separately

Technical information

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).

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

Relieving exhaust ($\leq 0.3 \text{ bar}$ over set pressure).

With rear exhaust ($> 3 \text{ bar}$).

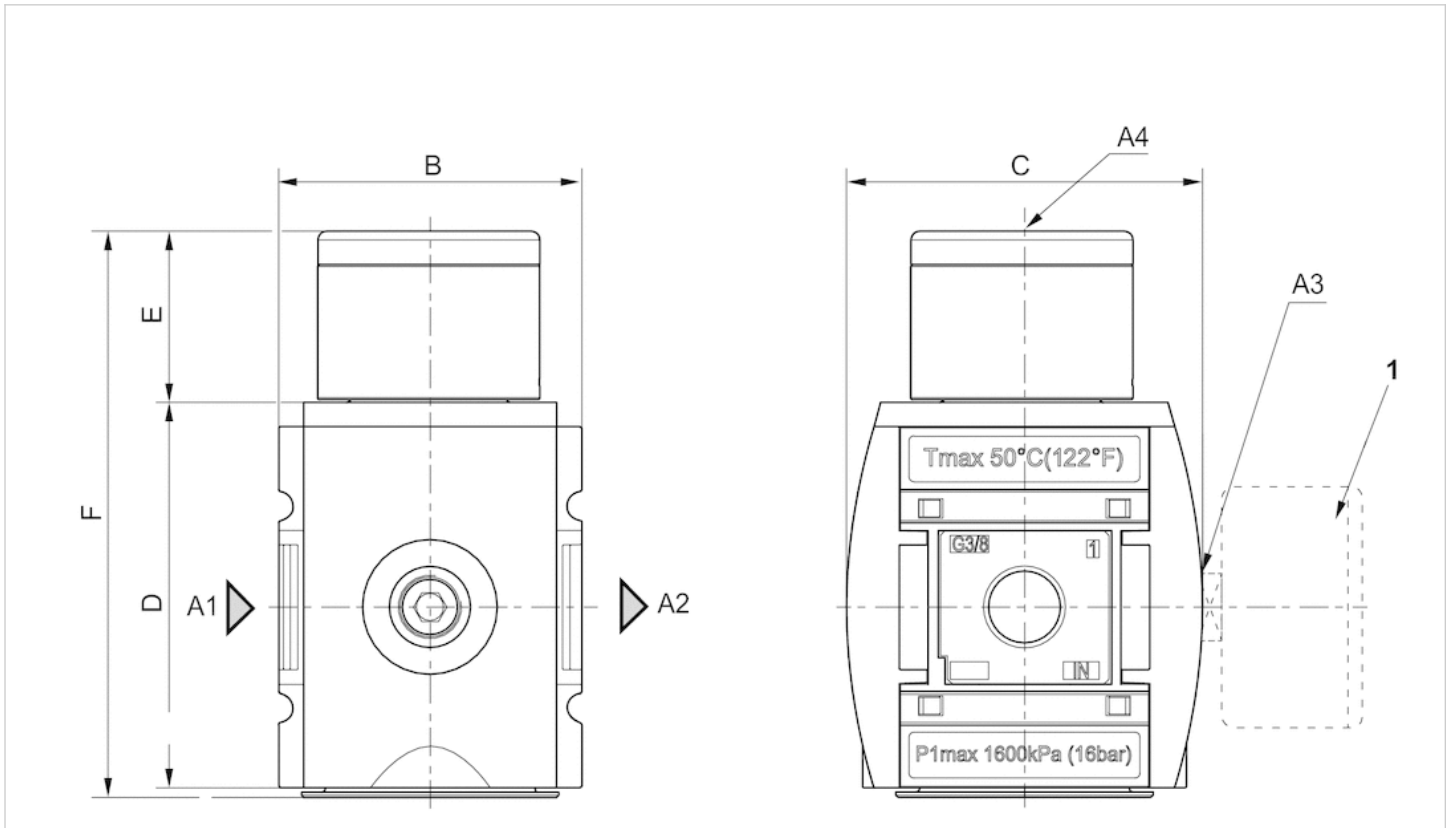
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |

| | |
|------------------|--------------------------------|
| Material | |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



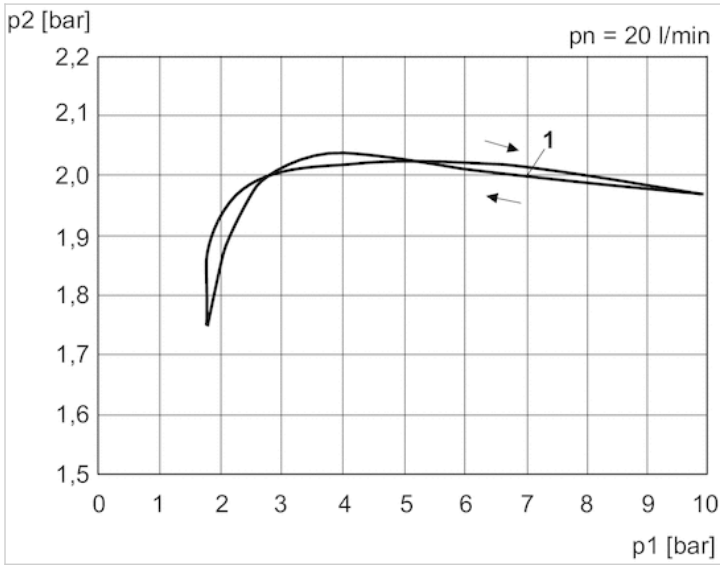
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = control pressure connection
- 1) Order pressure gauge separately

Dimensions in mm

| A1 | A2 | A3 | A4 | B | C | D | E | F |
|-------|-------|-------|-------|----|----|----|-------|-----|
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 39.25 | 121 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 39.25 | 121 |

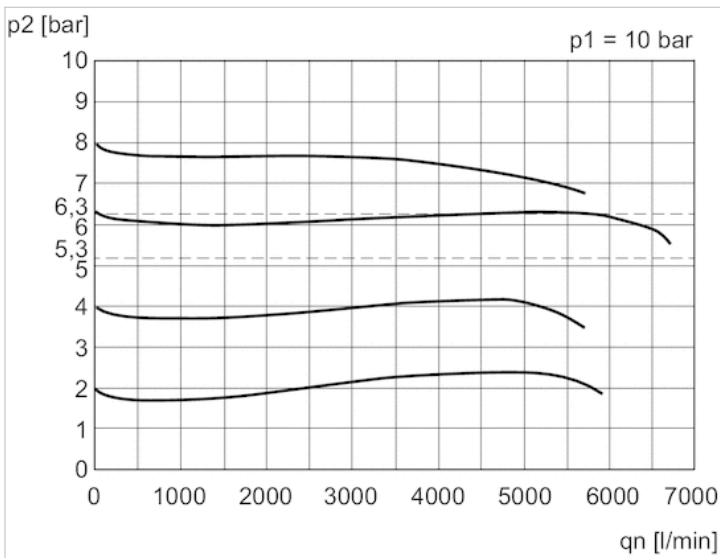
Diagrams

Pressure characteristics curve



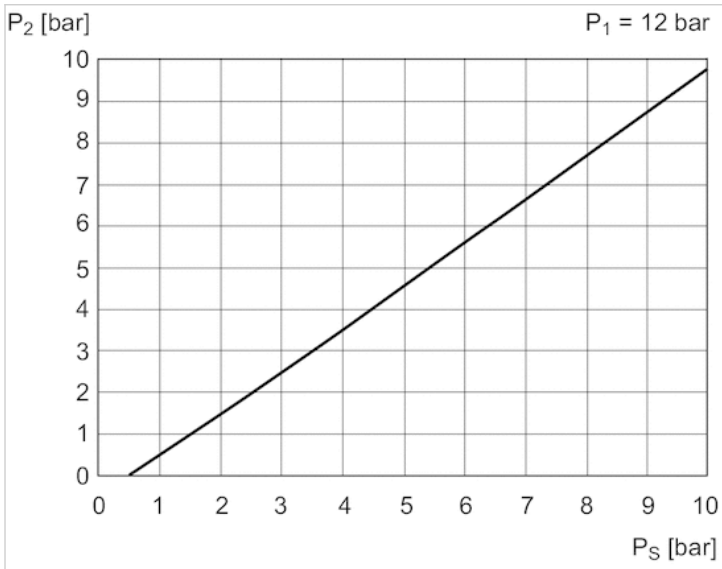
- p1 = Working pressure
- p2 = Secondary pressure
- qn = Nominal flow
- 1) = Starting point

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



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

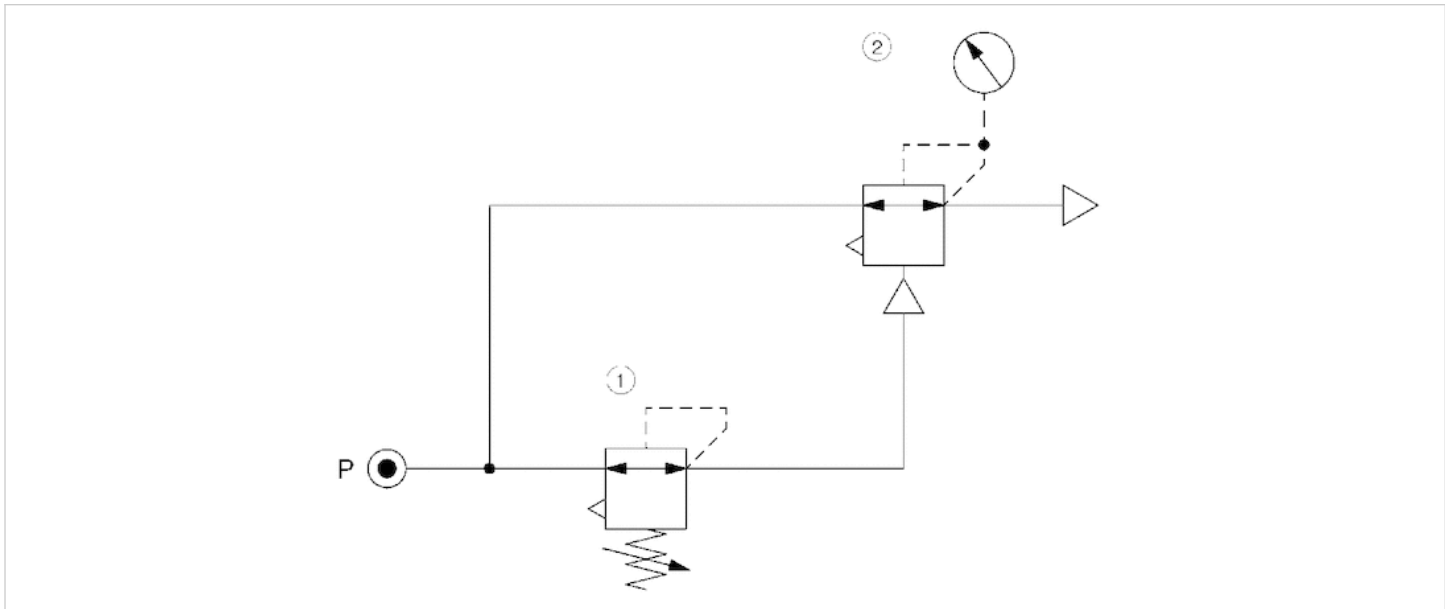
control pressure characteristic



p_1 = working pressure
 p_2 = secondary pressure
 PS = control pressure

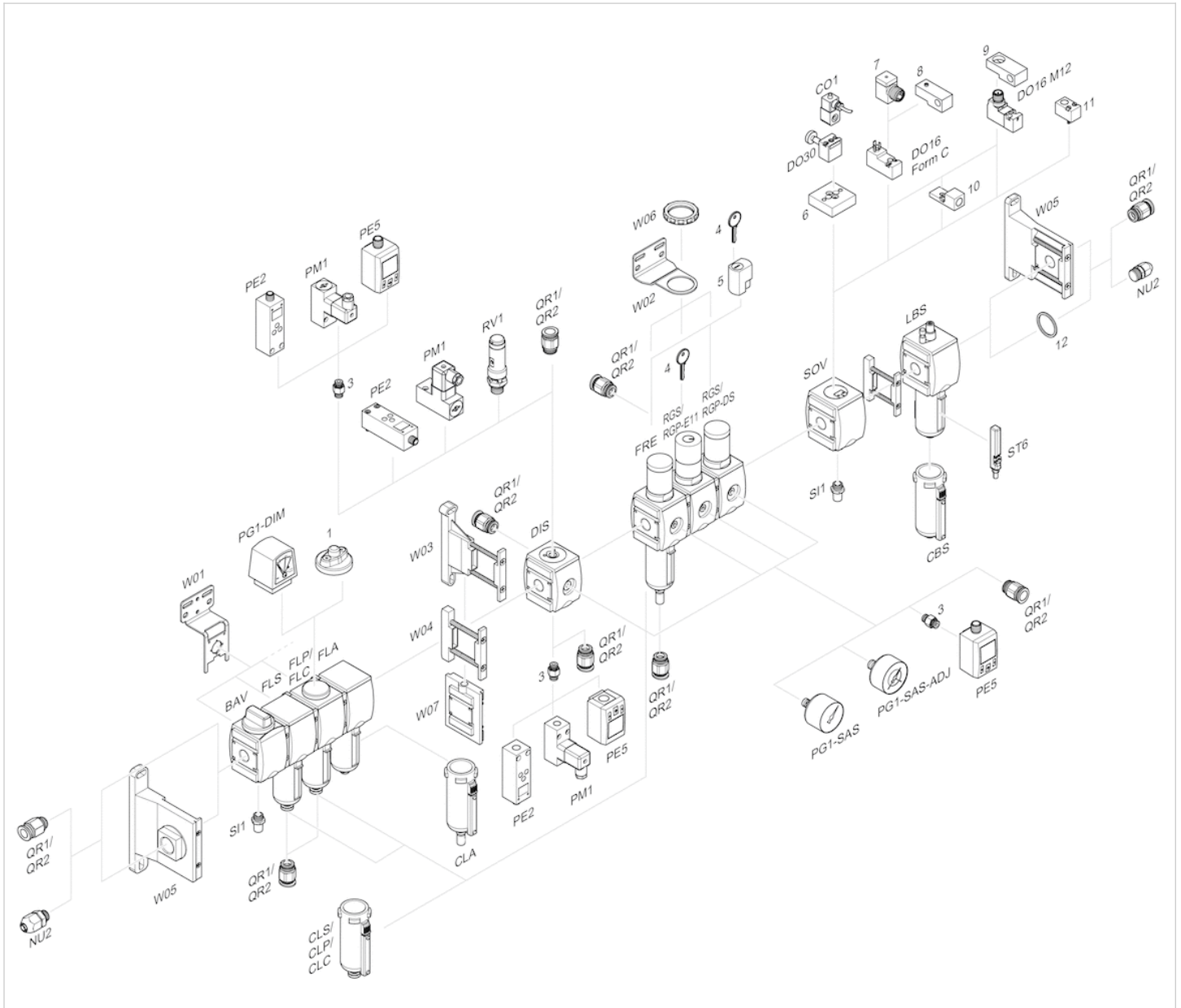
Circuit diagram

Application example



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

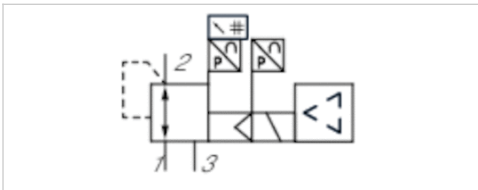
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

E/P pressure regulator, Series EV12

- Pressure supply, left, Display: display
- $Q_n = 6500$ l/min
- Compressed air connection output G 1/2 G 3/8
- Electr. connection M12, 5-pin, A-coded
- serial control IO-Link
- Pilot valves



| | |
|-------------------------------|---------------------------|
| Version | Poppet valve |
| Ambient temperature min./max. | 0 ... 50 °C |
| Medium temperature min./max. | 0 ... 50 °C |
| Medium | Neutral gases |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6500 l/min |
| DC operating voltage | 24 V |
| Voltage tolerance DC | -20% / +30% |
| Hysteresis | 0.12 bar |
| Permissible ripple | 5% |
| Max. power consumption | 220 mA |
| Weight | 1.4 kg |

Technical data

| Part No. | Pressure setting range min./max. | Compressed air connection |
|------------|-------------------------------------|---------------------------|
| | | Input |
| R414011386 | 0 ... 10 bar | G 1/2 |
| R414011387 | 0 ... 10 bar | G 1/2 |
| R414011389 | 0 ... 10 bar | G 1/2 |
| R414011398 | 0 ... 10 bar | G 3/8 |
| R414011399 | 0 ... 10 bar | G 3/8 |
| R414011401 | 0 ... 10 bar | G 3/8 |

| Part No. | Compressed air connection | Nominal input value | Actual output value | serial control |
|------------|---------------------------|---------------------|---------------------|----------------|
| | Output | Min./max. | Min./max. | |
| R414011386 | G 1/2 | 0 ... 10 V | 0 ... 10 V | - |
| R414011387 | G 1/2 | 4 ... 20 mA | 4 ... 20 mA | - |
| R414011389 | G 1/2 | - | - | IO-Link |
| R414011398 | G 3/8 | 0 ... 10 V | 0 ... 10 V | - |
| R414011399 | G 3/8 | 4 ... 20 mA | 0 ... 20 mA | - |
| R414011401 | G 3/8 | - | - | IO-Link |

Technical information

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. Further information can be found in the “Technical information” document (available in the MediaCentre).

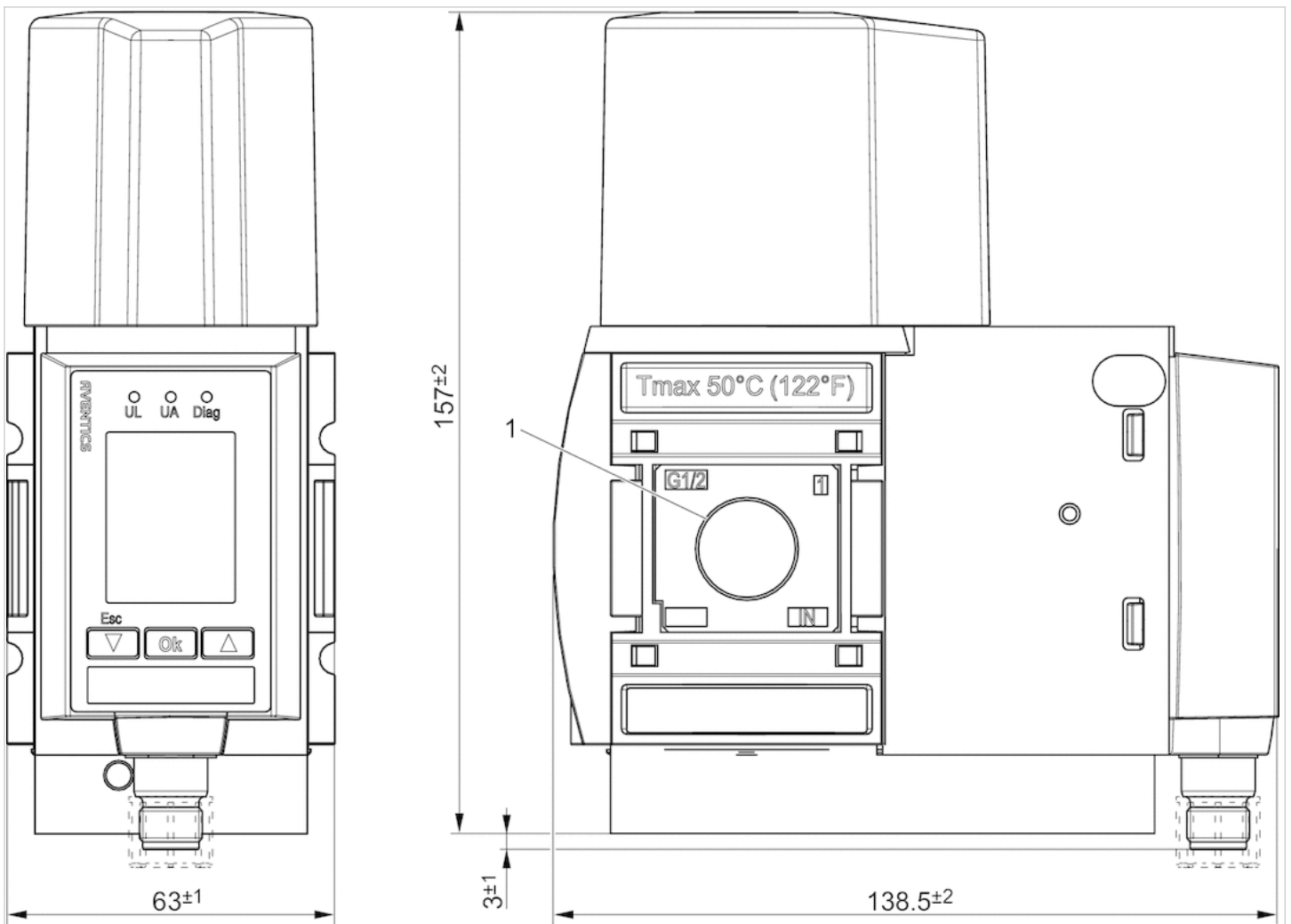
Power outage: maintain pressure

Technical information

| Material | |
|------------|--------------------------|
| Housing | Polyamide |
| Base plate | Aluminum |
| Seals | Nitrile butadiene rubber |

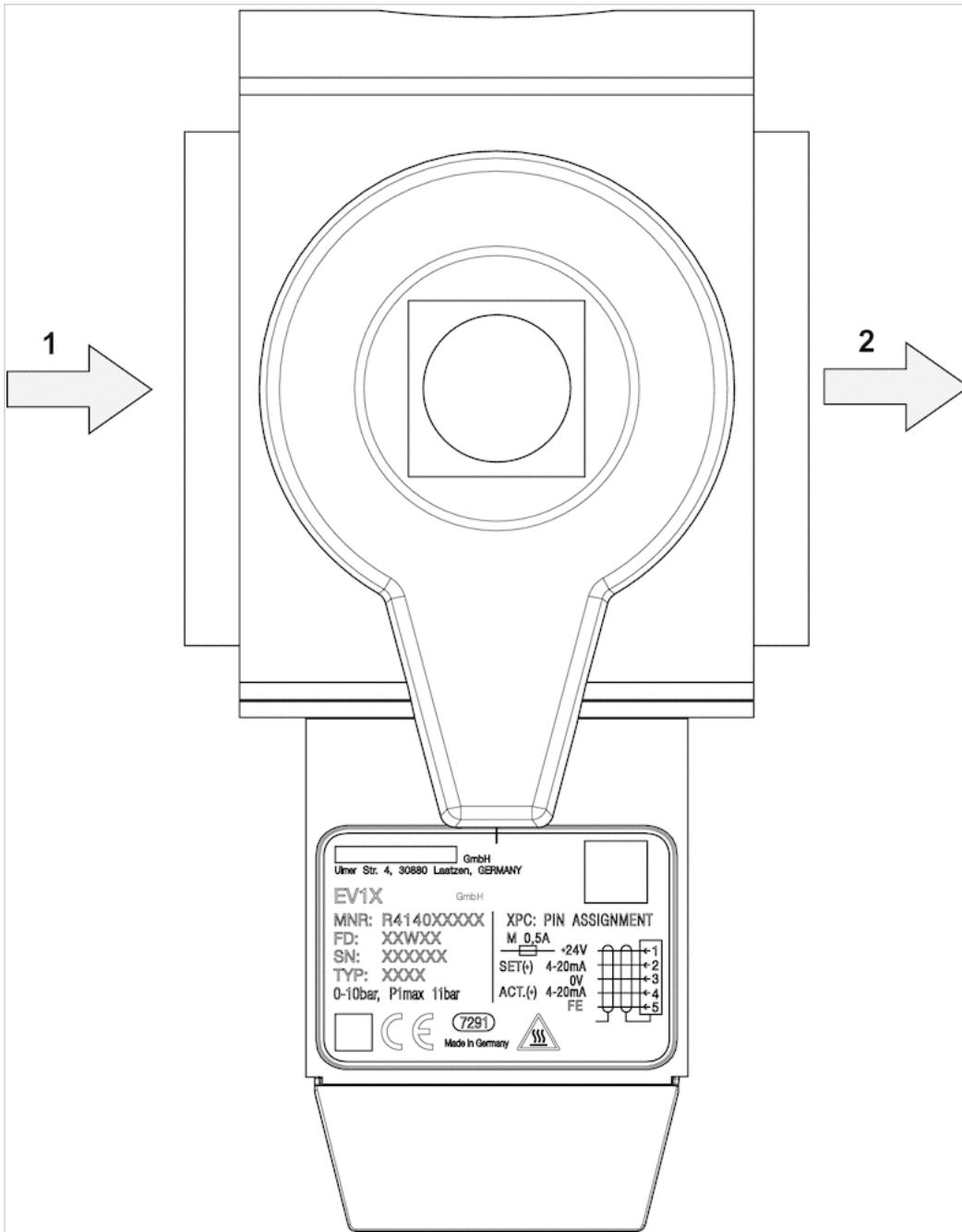
Dimensions

Dimensions



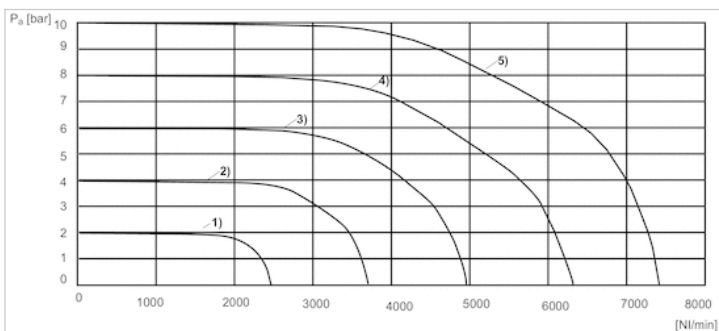
1) Connection thread

Pressure supply, left



Diagrams

Flow characteristic curve

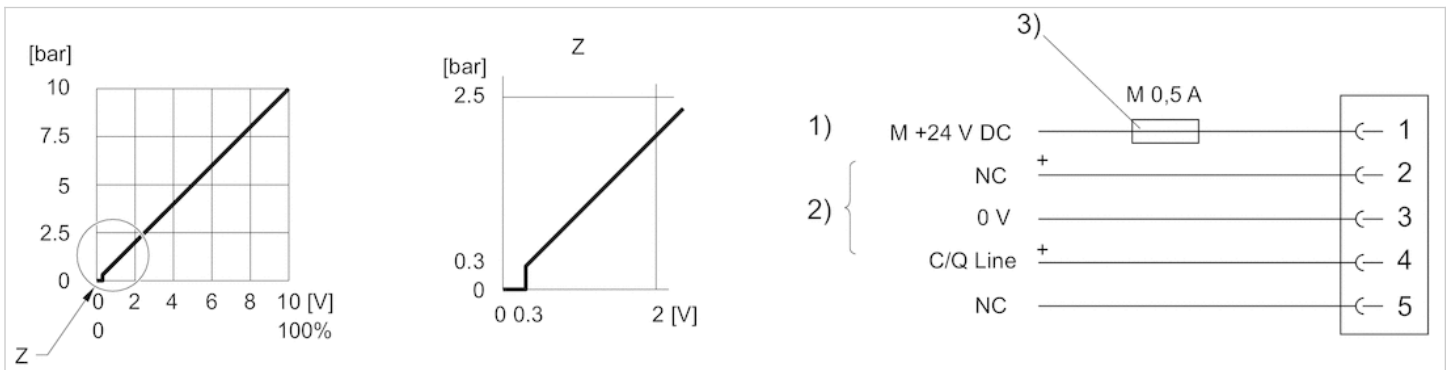


1) $P_v = 3$ bar

- 2) $P_v = 5 \text{ bar}$
- 3) $P_v = 7 \text{ bar}$
- 4) $P_v = 9 \text{ bar}$
- 5) $P_v = 11 \text{ bar}$
- $P_v = \text{Supply pressure}$
- $P_a = \text{Working pressure}$
- $P_v = P_a + 1$

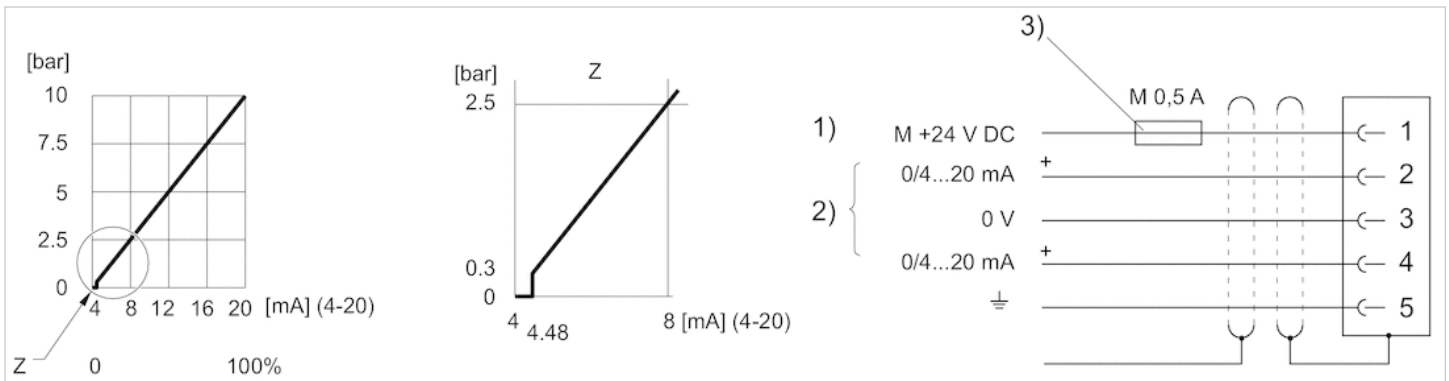
Circuit diagram

Characteristic curve and plug assignment for IO-Link version



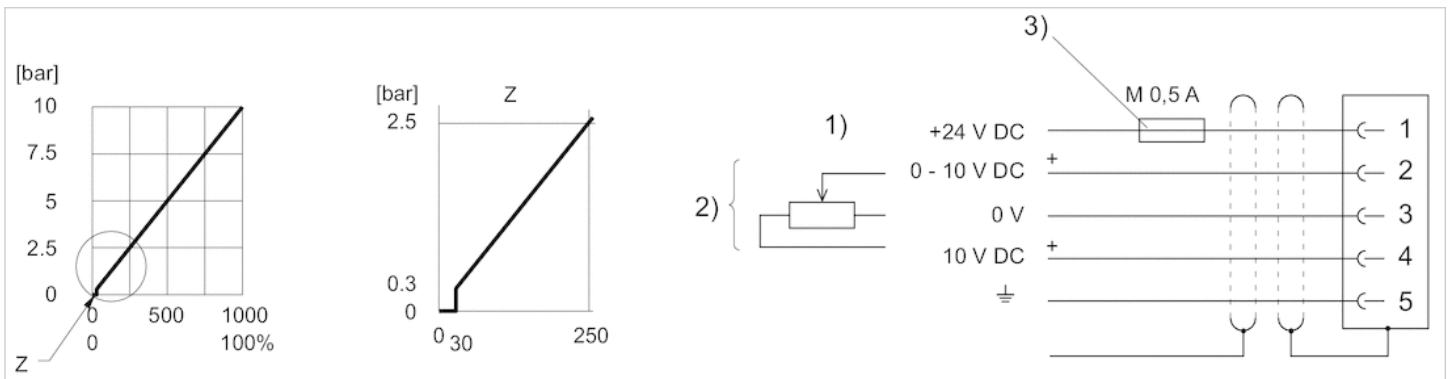
- 1) power supply
- 2) C/Q Line (pin 4) Not connected (NC) (pin 2) are related to 0 V (pin 3).
- 3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for current control with actual output value



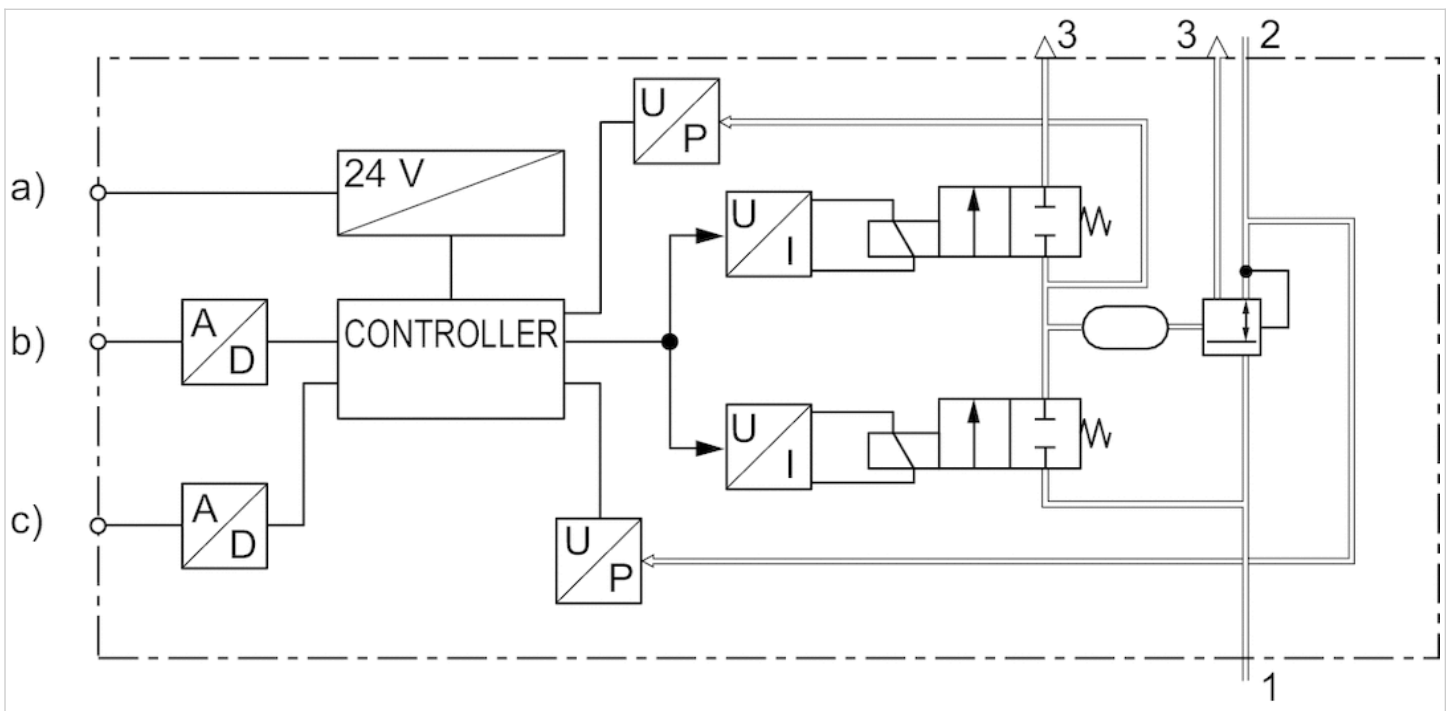
- 1) power supply
- 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (ohmic load 100 Ω), actual output value: external ohmic load 300 Ω. If the power supply is switched off, the nominal input value is high-ohmic.
- 3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for voltage control with actual output value



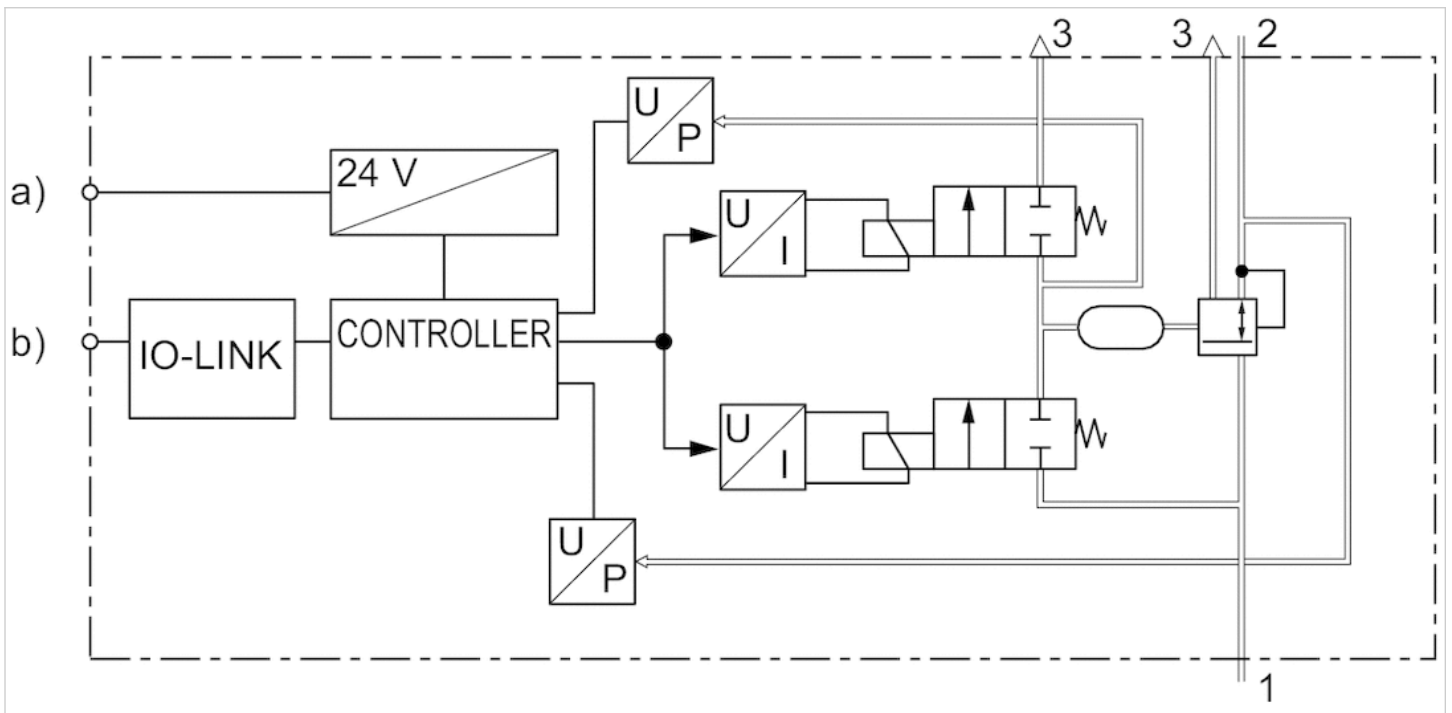
- 1) power supply
- 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3). Nominal input value ($R = 1\text{ M}\Omega$), actual output value: min. load resistance $> 10\text{ k}\Omega$. If the power supply is switched off, the nominal input value is high-ohmic.
- 3) The power supply must be protected by an external M 0.5 A fuse. Connect the plug via a shielded cable to ensure EMC.

Functional diagram



- a) Voltage supply
- b) Nominal value
- c) Actual output value

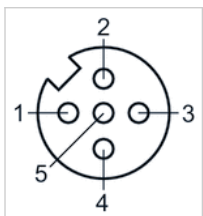
Functional diagram, IO-Link



- a) Supply Voltage
- b) C/Q Line

Pin assignments

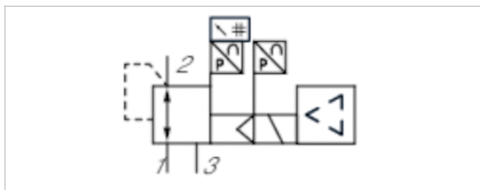
Plug assignment



- 1) 24 V DC
- 2) Nominal input value
- 3) GND
- 4) Actual output value
- 5) Ground

E/P pressure regulator, Series EV12

- Pressure supply, right, Display: display
- Qn = 6500 l/min
- Compressed air connection output G 1/2 G 3/8
- Electr. connection M12, 5-pin
- serial control IO-Link
- Pilot valves



| | |
|-------------------------------|---------------------------|
| Version | Poppet valve |
| Working pressure max | 11 bar |
| Ambient temperature min./max. | 0 ... 50 °C |
| Medium temperature min./max. | 0 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 6500 l/min |
| DC operating voltage | 24 V |
| Voltage tolerance DC | -20% / +30% |
| Hysteresis | 0.12 bar |
| Permissible ripple | 5% |
| Max. power consumption | 220 mA |
| Weight | 1.4 kg |

Technical data

| Part No. | Compressed air connection | | Nominal input value Min./max. |
|------------|---------------------------|--------|----------------------------------|
| | Input | Output | |
| R414011384 | G 1/2 | G 1/2 | 0 ... 10 V |
| R414011385 | G 1/2 | G 1/2 | 4 ... 20 mA |
| R414011388 | G 1/2 | G 1/2 | - |
| R414011396 | G 3/8 | G 3/8 | 0 ... 10 V |
| R414011397 | G 3/8 | G 3/8 | 4 ... 20 mA |
| R414011400 | G 3/8 | G 3/8 | - |

| Part No. | Actual output value Min./max. | | serial control |
|------------|----------------------------------|------------|----------------|
| | R414011384 | 0 ... 10 V | |
| R414011385 | 4 ... 20 mA | - | |
| R414011388 | - | IO-Link | |
| R414011396 | 0 ... 10 V | - | |
| R414011397 | 4 ... 20 mA | - | |
| R414011400 | - | IO-Link | |

Technical information

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. Further information can be found in the “Technical information” document (available in the MediaCentre).

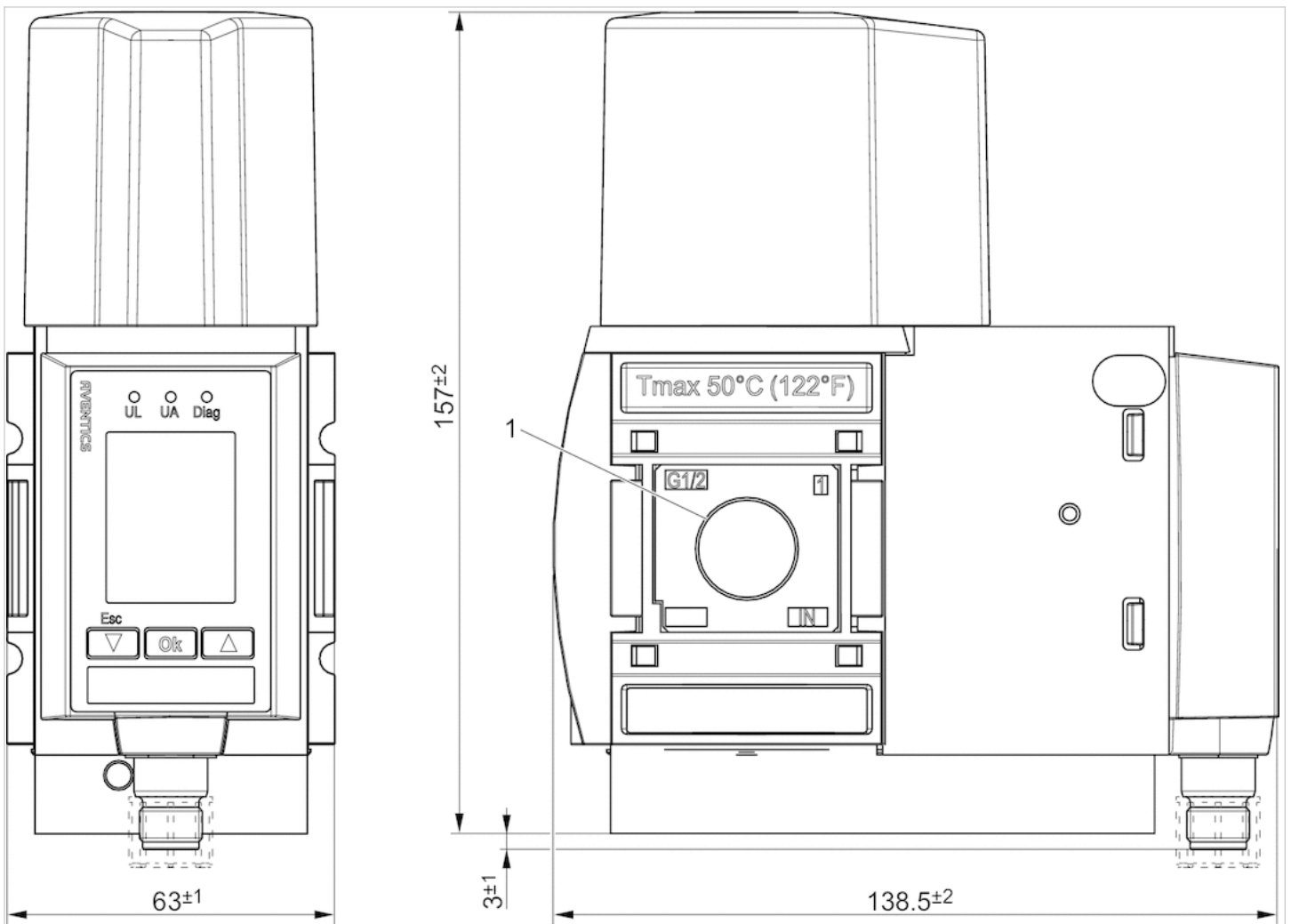
Power outage: maintain pressure

Technical information

| Material | |
|------------|--------------------------|
| Housing | Polyamide |
| Base plate | Aluminum |
| Seals | Nitrile butadiene rubber |

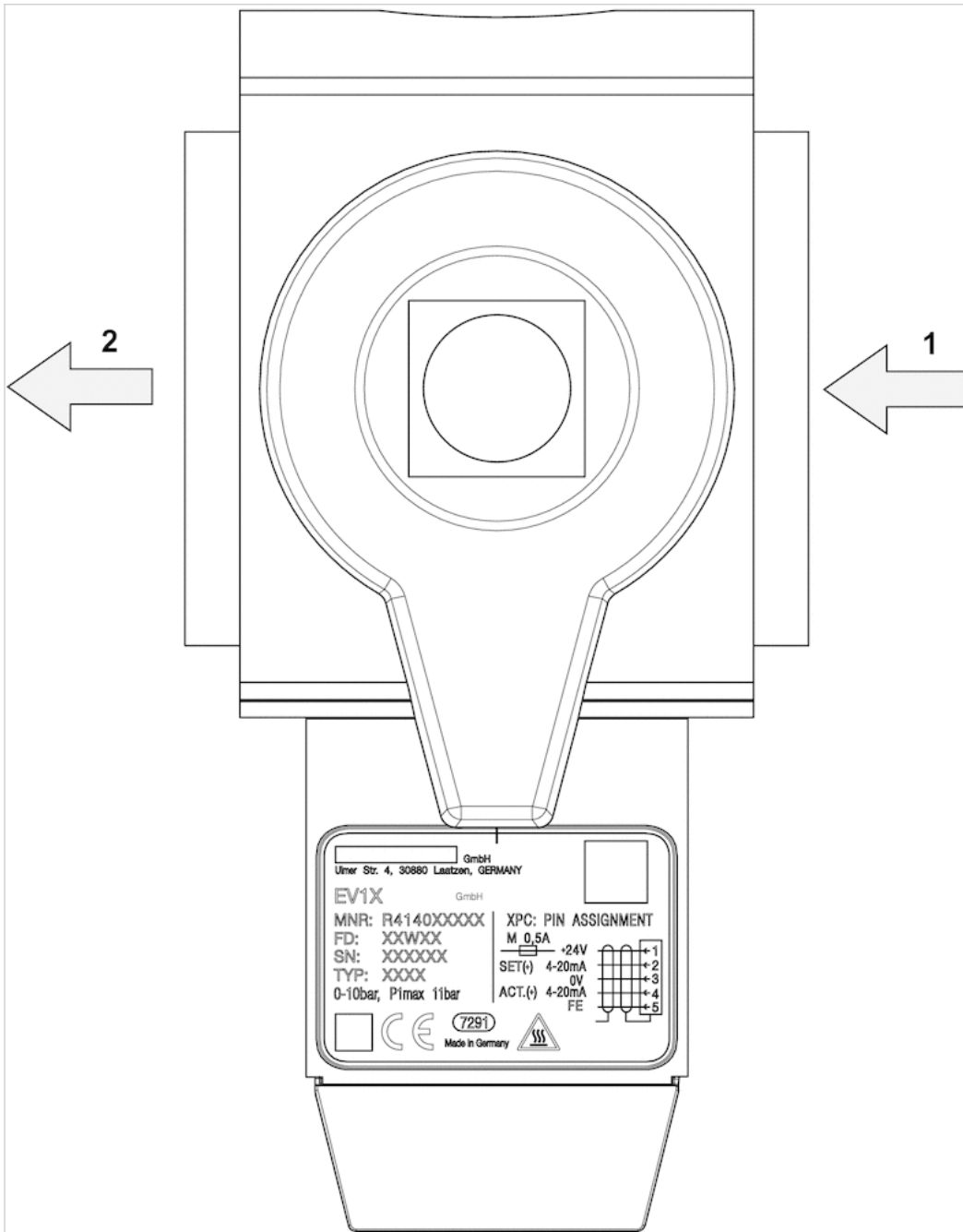
Dimensions

Dimensions



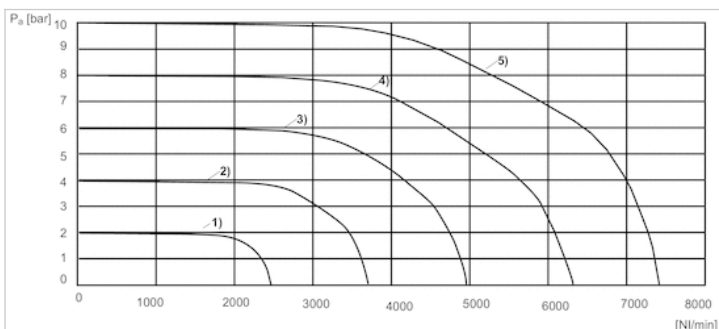
1) Connection thread

Pressure supply, right



Diagrams

Flow characteristic curve

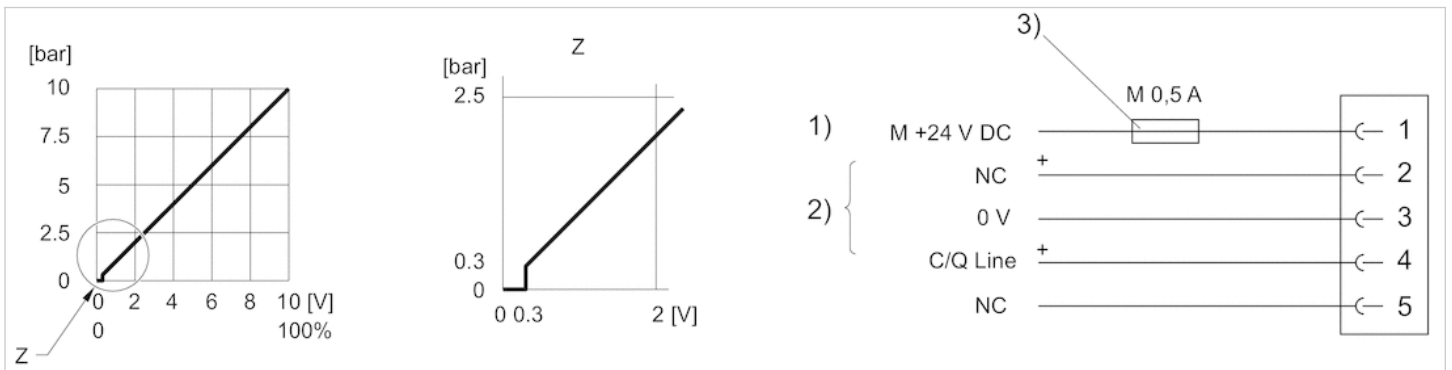


1) $P_v = 3$ bar

- 2) $P_v = 5 \text{ bar}$
- 3) $P_v = 7 \text{ bar}$
- 4) $P_v = 9 \text{ bar}$
- 5) $P_v = 11 \text{ bar}$
- $P_v = \text{Supply pressure}$
- $P_a = \text{Working pressure}$
- $P_v = P_a + 1$

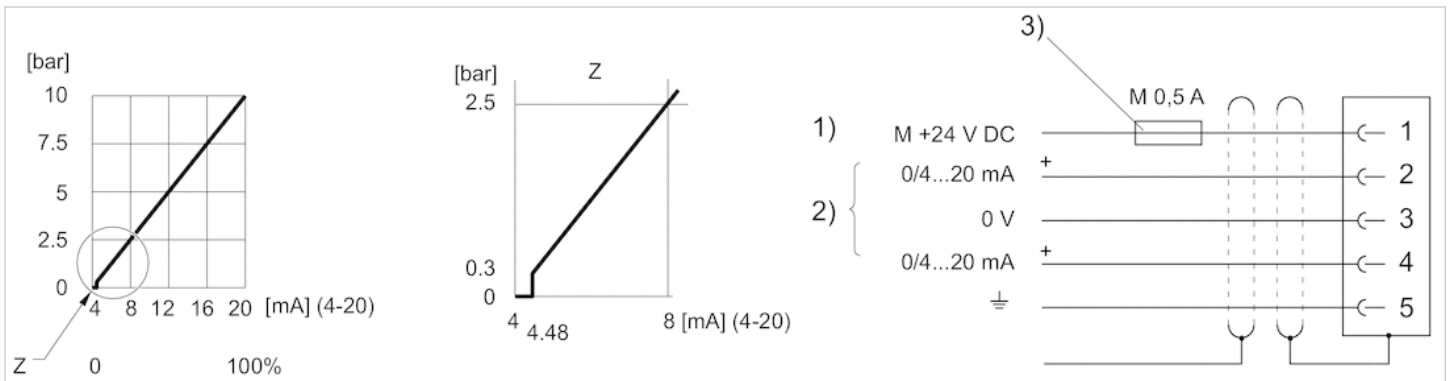
Circuit diagram

Characteristic curve and plug assignment for IO-Link version



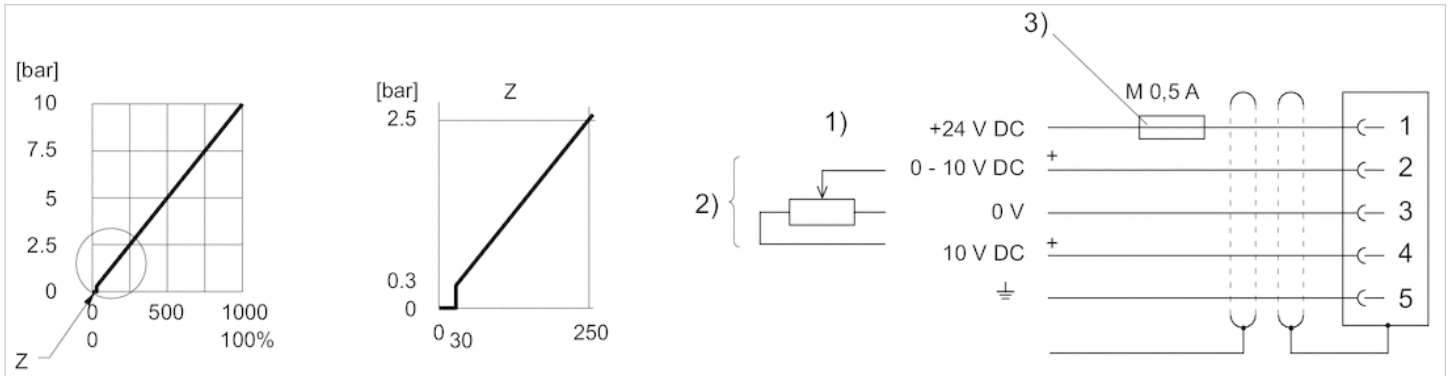
- 1) power supply
 - 2) C/Q Line (pin 4) Not connected (NC) (pin 2) are related to 0 V (pin 3).
 - 3) The power supply must be protected by an external M 0.5 A fuse.
- Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for current control with actual output value



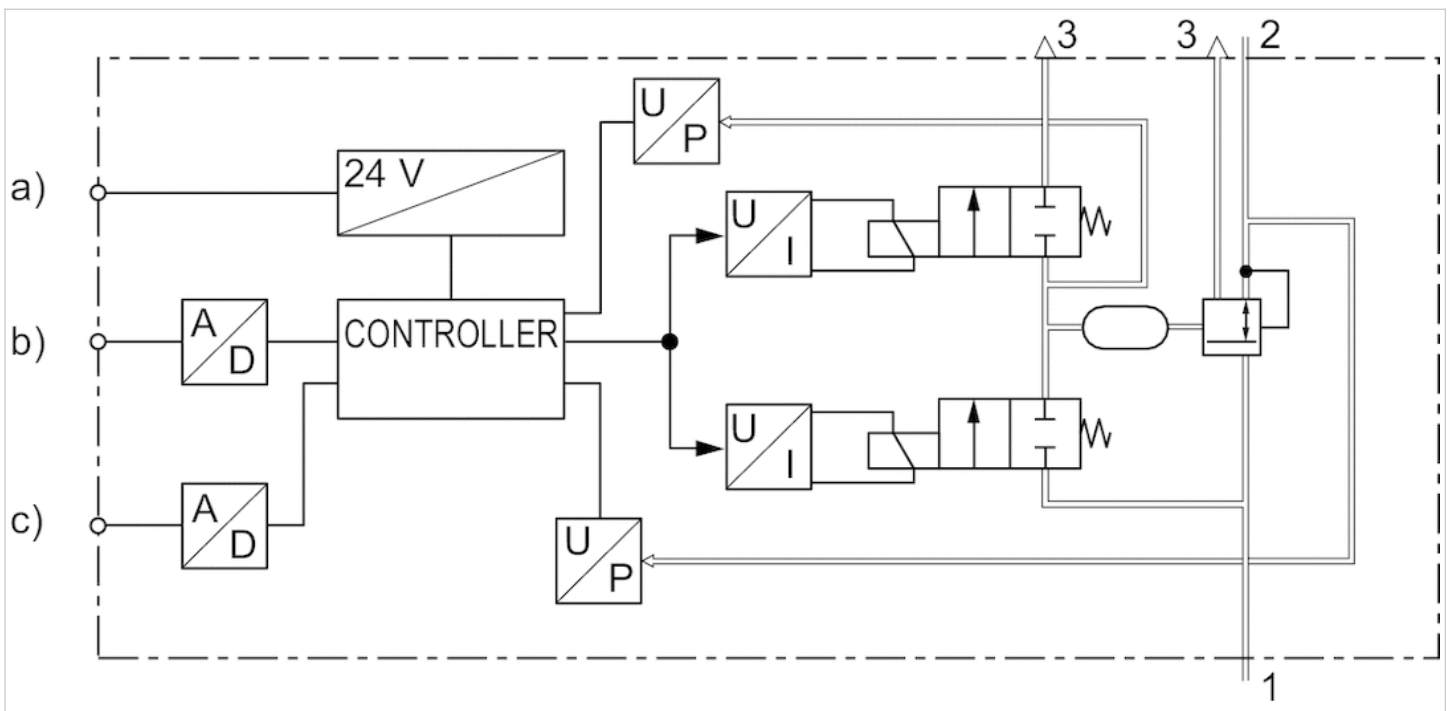
- 1) power supply
 - 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (ohmic load 100 Ω), actual output value: external ohmic load 300 Ω . If the power supply is switched off, the nominal input value is high-ohmic.
 - 3) The power supply must be protected by an external M 0.5 A fuse.
- Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for voltage control with actual output value



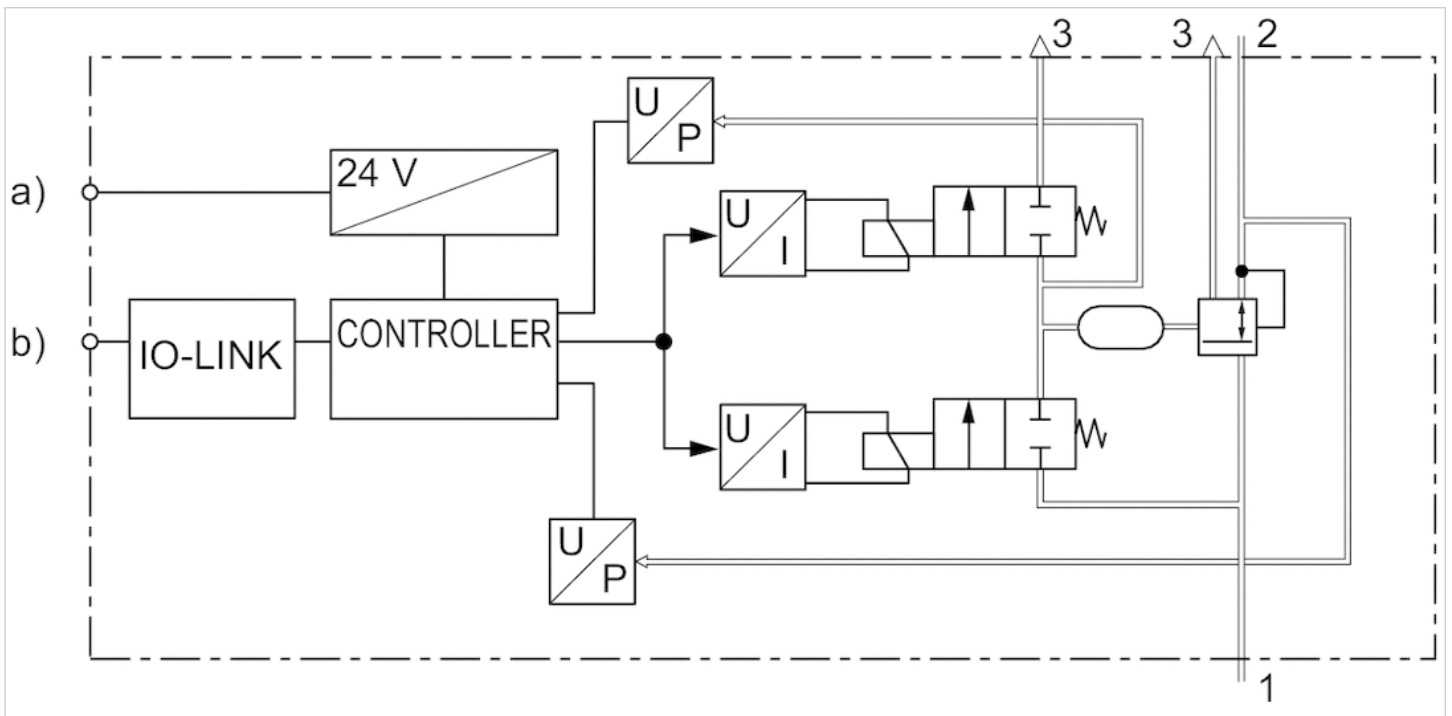
- 1) power supply
- 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3). Nominal input value ($R = 1\text{ M}\Omega$), actual output value: min. load resistance $> 10\text{ K}\Omega$. If the power supply is switched off, the nominal input value is high-ohmic.
- 3) The power supply must be protected by an external M 0.5 A fuse. Connect the plug via a shielded cable to ensure EMC.

Functional diagram



- a) Voltage supply
- b) Nominal value
- c) Actual output value

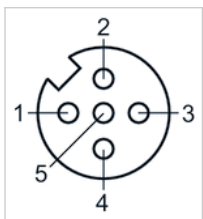
Functional diagram, IO-Link



- a) Supply Voltage
- b) C/Q Line

Pin assignments

Plug assignment



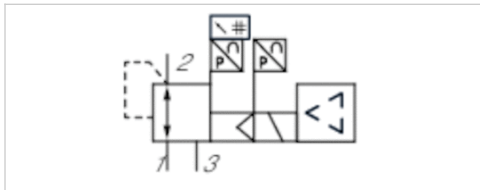
- 1) 24 V DC
- 2) Nominal input value
- 3) GND
- 4) Actual output value
- 5) Ground

E/P pressure regulator, Series EV12

- Continuous pressure supply, Display: display
- Qn = 6500 l/min
- Compressed air connection output G 1/2 G 3/8
- Electr. connection M12, 5-pin, A-coded
- serial control IO-Link
- Pilot valves



| | |
|-------------------------------|---------------------------|
| Version | Poppet valve |
| Working pressure max | 11 bar |
| Ambient temperature min./max. | 0 ... 50 °C |
| Medium temperature min./max. | 0 ... 50 °C |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 6500 l/min |
| DC operating voltage | 24 V |
| Voltage tolerance DC | -20% / +30% |
| Hysteresis | 0.12 bar 0.12 bar |
| Permissible ripple | 5% |
| Max. power consumption | 220 mA |
| Weight | 1.4 kg |



Technical data

| Part No. | Compressed air connection | | Nominal input value Min./max. |
|------------|---------------------------|--------|----------------------------------|
| | Input | Output | |
| R414011390 | G 1/2 | G 1/2 | 0 ... 10 V |
| R414011391 | G 1/2 | G 1/2 | 0 ... 20 mA |
| R414011394 | G 1/2 | G 1/2 | - |
| R414011402 | G 3/8 | G 3/8 | 0 ... 10 V |
| R414011403 | G 3/8 | G 3/8 | 4 ... 20 mA |
| R414011406 | G 3/8 | G 3/8 | - |

| Part No. | Actual output value | serial control |
|------------|---------------------|----------------|
| | Min./max. | |
| R414011390 | 0 ... 10 V | - |
| R414011391 | 4 ... 20 mA | - |
| R414011394 | - | IO-Link |
| R414011402 | 0 ... 10 V | - |
| R414011403 | 4 ... 20 mA | - |
| R414011406 | - | IO-Link |

Technical information

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. Further information can be found in the “Technical information” document (available in the MediaCentre).

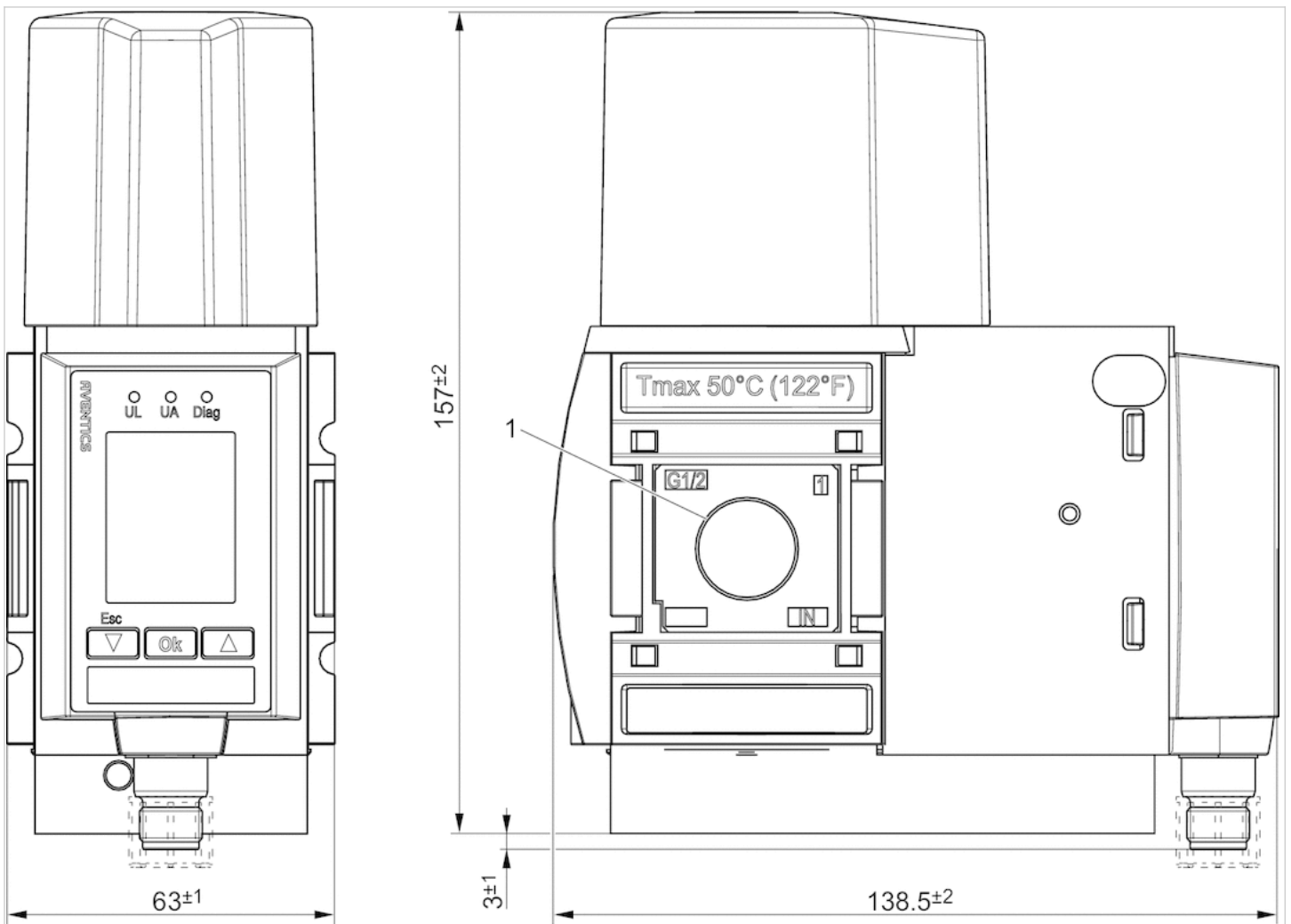
Power outage: maintain pressure

Technical information

| Material | |
|------------|--------------------------|
| Housing | Polyamide |
| Base plate | Aluminum |
| Seals | Nitrile butadiene rubber |

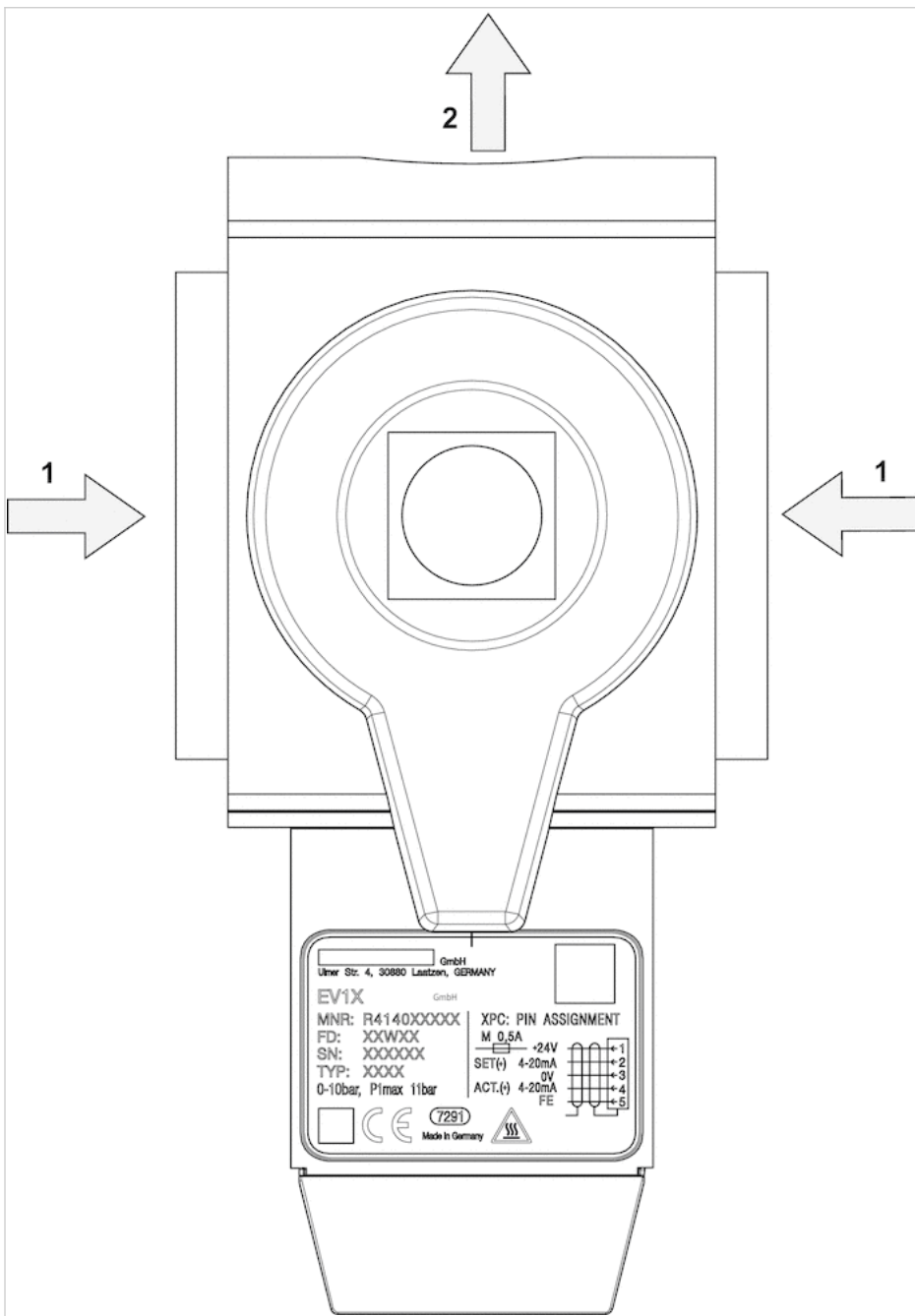
Dimensions

Dimensions



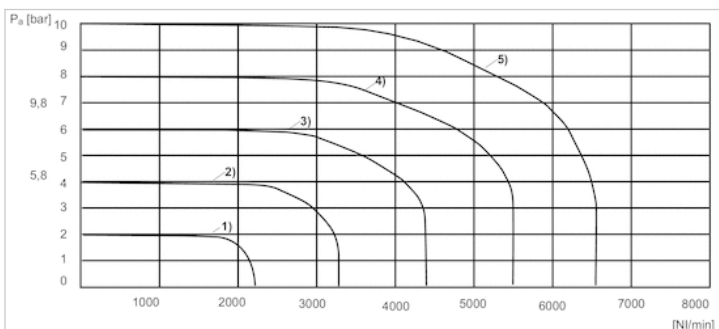
1) Connection thread

Continuous pressure supply



Diagrams

Flow characteristic curve

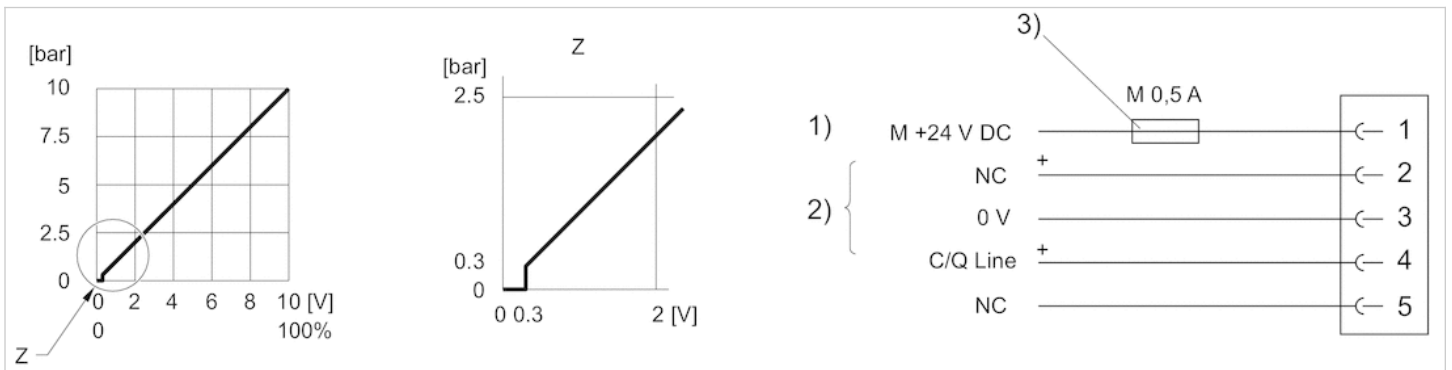


1) P_v = 3 bar

- 2) $P_v = 5 \text{ bar}$
- 3) $P_v = 7 \text{ bar}$
- 4) $P_v = 9 \text{ bar}$
- 5) $P_v = 11 \text{ bar}$
- $P_v = \text{Supply pressure}$
- $P_a = \text{Working pressure}$
- $P_v = P_a + 1$

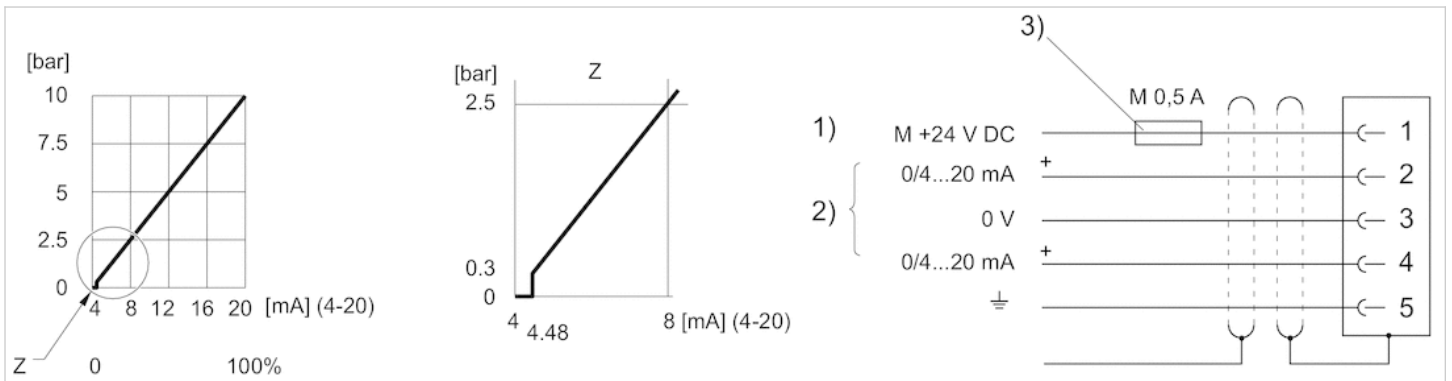
Circuit diagram

Characteristic curve and plug assignment for IO-Link version



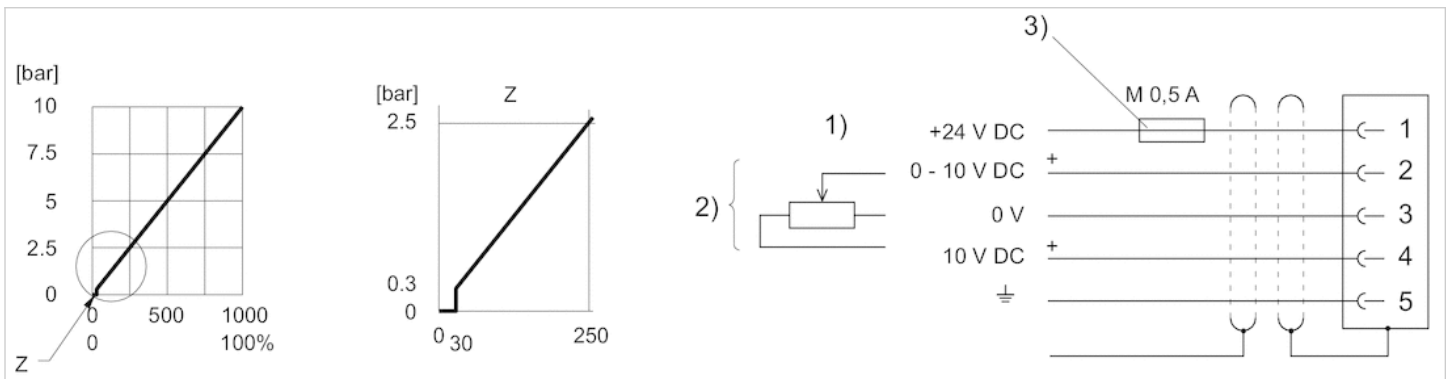
- 1) power supply
 - 2) C/Q Line (pin 4) Not connected (NC) (pin 2) are related to 0 V (pin 3).
 - 3) The power supply must be protected by an external M 0.5 A fuse.
- Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for current control with actual output value



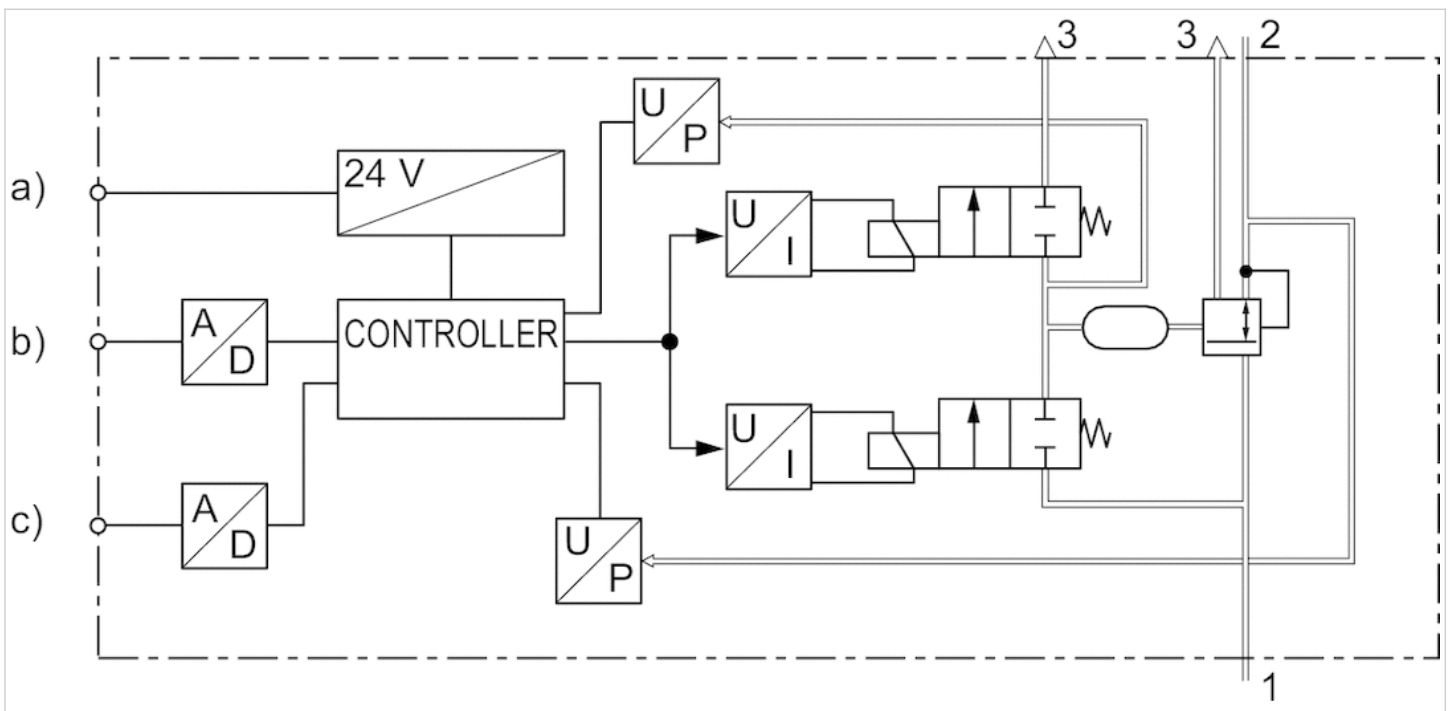
- 1) power supply
 - 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (ohmic load 100 Ω), actual output value: external ohmic load 300 Ω. If the power supply is switched off, the nominal input value is high-ohmic.
 - 3) The power supply must be protected by an external M 0.5 A fuse.
- Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for voltage control with actual output value



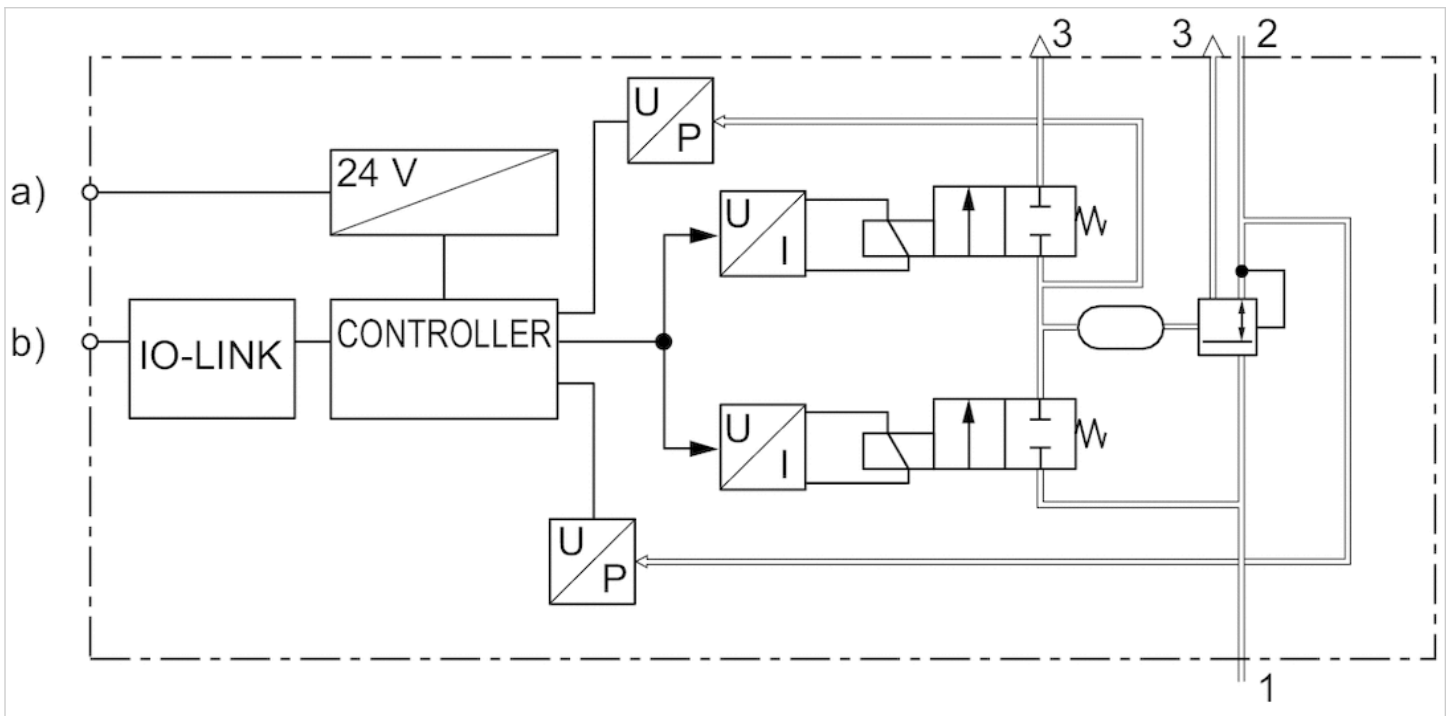
- 1) power supply
- 2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value ($R = 1\text{ M}\Omega$), actual output value: min. load resistance $> 10\text{ K}\Omega$. If the power supply is switched off, the nominal input value is high-ohmic.
- 3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Functional diagram



- a) Voltage supply
- b) Nominal value
- c) Actual output value

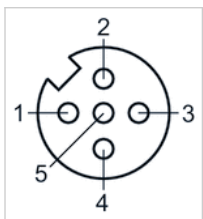
Functional diagram, IO-Link



- a) Supply Voltage
- b) C/Q Line

Pin assignments

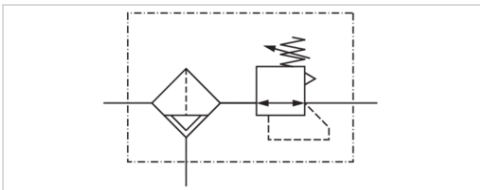
Plug assignment



- 1) 24 V DC
- 2) Nominal input value
- 3) GND
- 4) Actual output value
- 5) Ground

Filter pressure regulator, Series AS3-FRE

- G 3/8 G 1/2
- filter porosity 5 µm
- lockable
- for padlocks



| | |
|---------------------------------------------------------------|---------------------------------------------------------|
| Version | 1-part, Can be assembled into blocks |
| Parts | Filter pressure regulator |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 5100 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function Adjustment range min./max. Pressure supply | with relieving air exhaust See table below single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Weight | See table below |

Technical data

| Part No. | Port | filter porosity | Flow | Adjustment range min./max. |
|------------|-------|-----------------|------------|----------------------------|
| | | | Qn | |
| R412007175 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007193 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 10 bar |
| R412007176 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007177 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007194 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 10 bar |
| R412007195 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 10 bar |
| R412007181 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007182 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007183 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007184 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007196 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 10 bar |
| R412007190 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007240 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 16 bar |
| R412007185 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007186 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007197 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 10 bar |
| R412007198 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 10 bar |
| R412007238 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 16 bar |

| Part No. | Port | filter porosity | Flow | Adjustment range min./max. |
|------------|-------|-----------------|------------|----------------------------|
| | | | Qn | |
| R412007192 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007191 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007241 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 16 bar |
| R412007242 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 16 bar |

| Part No. | Condensate drain | Reservoir | Protective guard | Weight |
|------------|------------------------------------------|---------------|------------------|----------|
| R412007175 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.586 kg |
| R412007193 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.818 kg |
| R412007176 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007177 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007194 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.87 kg |
| R412007195 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.87 kg |
| R412007181 | fully automatic, closed without pressure | Die cast zinc | - | 0.818 kg |
| R412007182 | fully automatic, open without pressure | Die cast zinc | - | 0.87 kg |
| R412007183 | fully automatic, closed without pressure | Die cast zinc | - | 0.87 kg |
| R412007184 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.586 kg |
| R412007196 | semi-automatic, open without pressure | Polycarbonate | Polyamide | 0.586 kg |
| R412007190 | semi-automatic, open without pressure | Die cast zinc | - | 0.797 kg |
| R412007240 | semi-automatic, open without pressure | Die cast zinc | - | 0.797 kg |
| R412007185 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007186 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007197 | fully automatic, open without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007198 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007238 | fully automatic, closed without pressure | Polycarbonate | Polyamide | 0.635 kg |
| R412007192 | fully automatic, closed without pressure | Die cast zinc | - | 0.85 kg |
| R412007191 | fully automatic, open without pressure | Die cast zinc | - | 0.85 kg |
| R412007241 | fully automatic, open without pressure | Die cast zinc | - | 0.85 kg |
| R412007242 | fully automatic, closed without pressure | Die cast zinc | - | 0.85 kg |

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

Order pressure gauge separately.

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

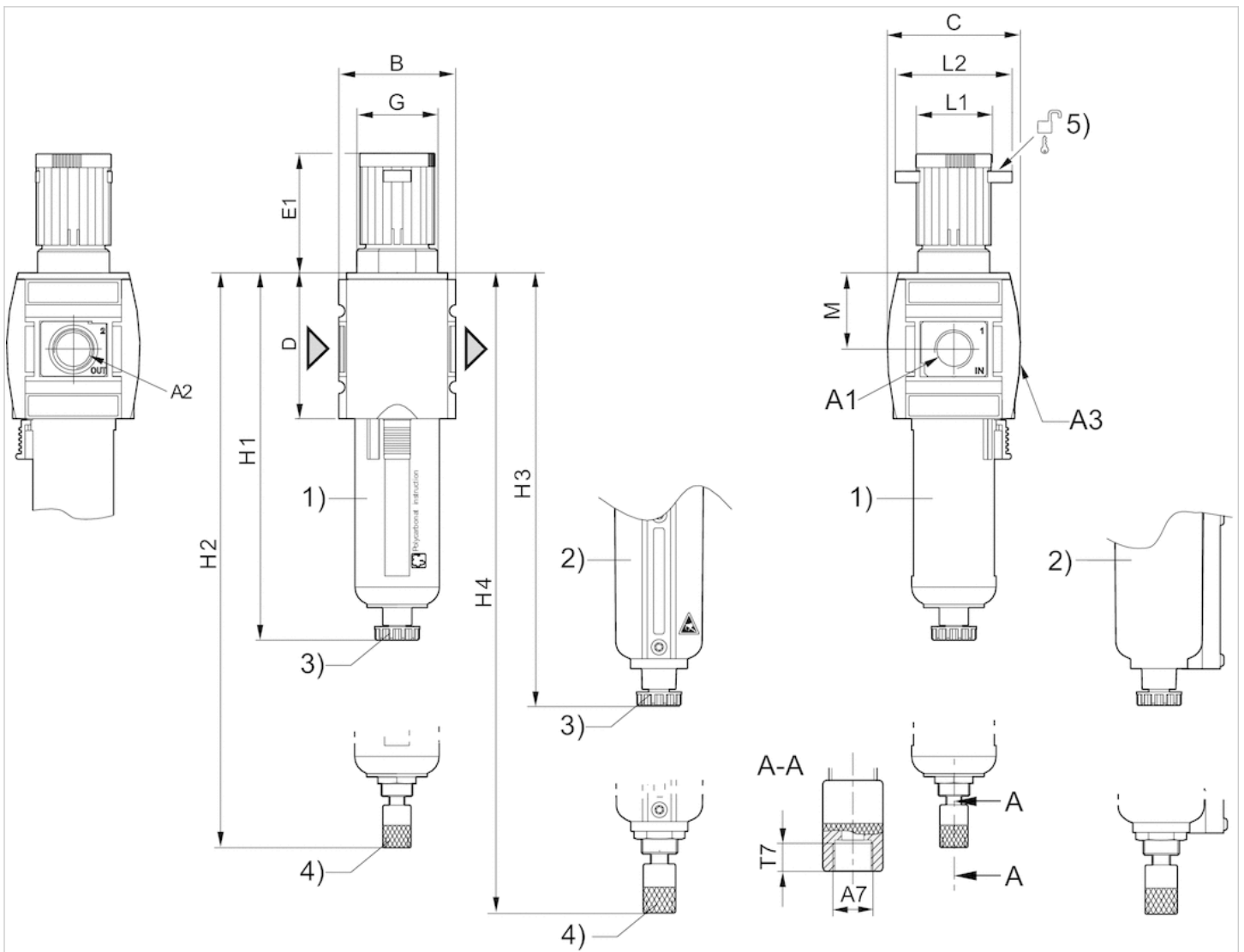
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |

| Material | |
|------------------|--------------------------------|
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions



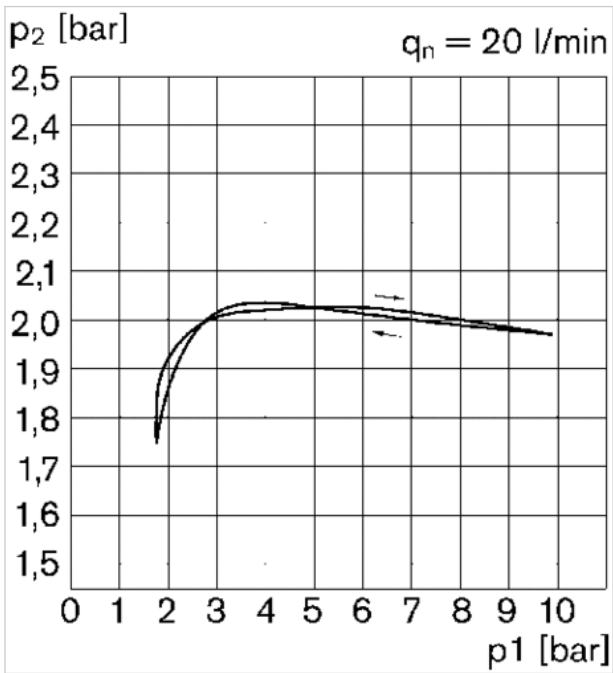
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with level indicator
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) Mounting option for padlocks, max. shackle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

Dimensions in mm

| A1 | A2 | A3 | A7 | B | C | D | E1 | G | H1 | H2 | H3 | H4 | L1 | L2 | M |
|-------|-------|-------|-------|----|----|----|------|---------|-------|-----|-------|-------|----|----|------|
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | -- | -- | -- | 41 | 60 | 42.5 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | 206 | -- | -- | 41 | 60 | 42.5 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | 193.5 | -- | 41 | 60 | 42.5 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | -- | 210.5 | 41 | 60 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | -- | -- | -- | 41 | 60 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | 193.5 | -- | 41 | 60 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | 206 | -- | -- | 41 | 60 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | -- | 210.5 | 41 | 60 | 42.5 |

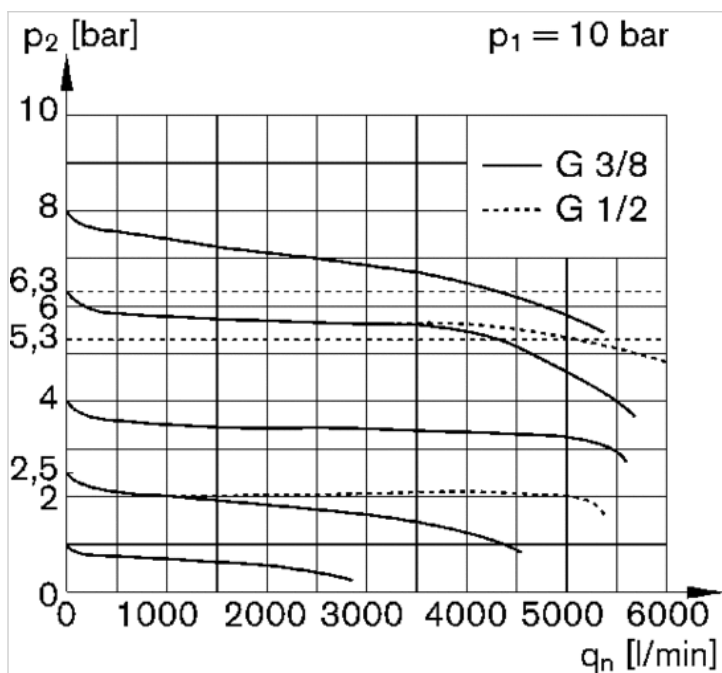
Diagrams

Pressure characteristics curve



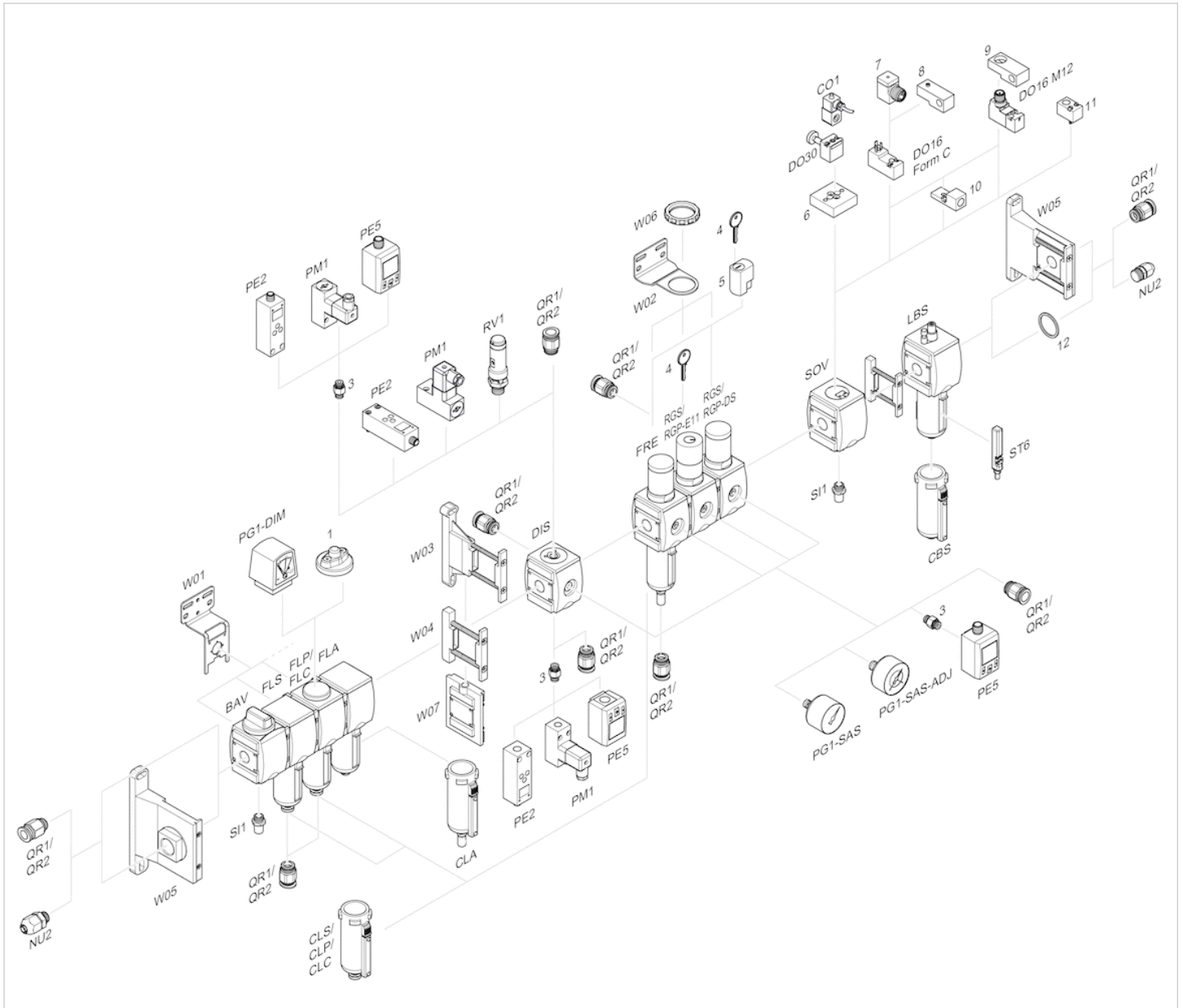
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

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



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

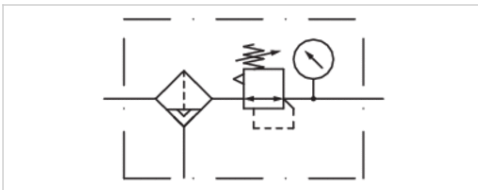
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter pressure regulator, Series AS3-FRE

- G 3/8 G 1/2
- filter porosity 5 µm
- lockable
- for padlocks
- with pressure gauge



| | |
|---------------------------------------------------------------|---------------------------------------------------------|
| Version | 1-part, Can be assembled into blocks |
| Parts | Filter pressure regulator |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 5100 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function Adjustment range min./max. Pressure supply | with relieving air exhaust See table below single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Weight | See table below |

Technical data

| Part No. | Port | filter porosity | Flow | Adjustment range min./max. |
|------------|-------|-----------------|------------|----------------------------|
| | | | Qn | |
| R412007200 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007201 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007202 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007206 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007207 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007208 | G 3/8 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007209 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007237 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 16 bar |
| R412007210 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007211 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007215 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007216 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |
| R412007217 | G 1/2 | 5 µm | 5100 l/min | 0.5 ... 8 bar |

| Part No. | Condensate drain | Pressure gauge | Reservoir |
|------------|----------------------------------------|---------------------|---------------|
| R412007200 | semi-automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007201 | fully automatic, open without pressure | with pressure gauge | Polycarbonate |

| Part No. | Condensate drain | Pressure gauge | Reservoir |
|------------|------------------------------------------|---------------------|---------------|
| R412007202 | fully automatic, closed without pressure | with pressure gauge | Polycarbonate |
| R412007206 | semi-automatic, open without pressure | with pressure gauge | Die cast zinc |
| R412007207 | fully automatic, open without pressure | with pressure gauge | Die cast zinc |
| R412007208 | fully automatic, closed without pressure | with pressure gauge | Die cast zinc |
| R412007209 | semi-automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007237 | fully automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007210 | fully automatic, open without pressure | with pressure gauge | Polycarbonate |
| R412007211 | fully automatic, closed without pressure | with pressure gauge | Polycarbonate |
| R412007215 | semi-automatic, open without pressure | with pressure gauge | Die cast zinc |
| R412007216 | fully automatic, open without pressure | with pressure gauge | Die cast zinc |
| R412007217 | fully automatic, closed without pressure | with pressure gauge | Die cast zinc |

| Part No. | Protective guard | Weight |
|------------|------------------|----------|
| R412007200 | Polyamide | 0.658 kg |
| R412007201 | Polyamide | 0.707 kg |
| R412007202 | Polyamide | 0.707 kg |
| R412007206 | - | 0.89 kg |
| R412007207 | - | 0.943 kg |
| R412007208 | - | 0.943 kg |
| R412007209 | Polyamide | 0.658 kg |
| R412007237 | Polyamide | 0.658 kg |
| R412007210 | Polyamide | 0.707 kg |
| R412007211 | Polyamide | 0.707 kg |
| R412007215 | - | 0.87 kg |
| R412007216 | - | 0.922 kg |
| R412007217 | - | 0.922 kg |

Pressure gauge enclosed separately, Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

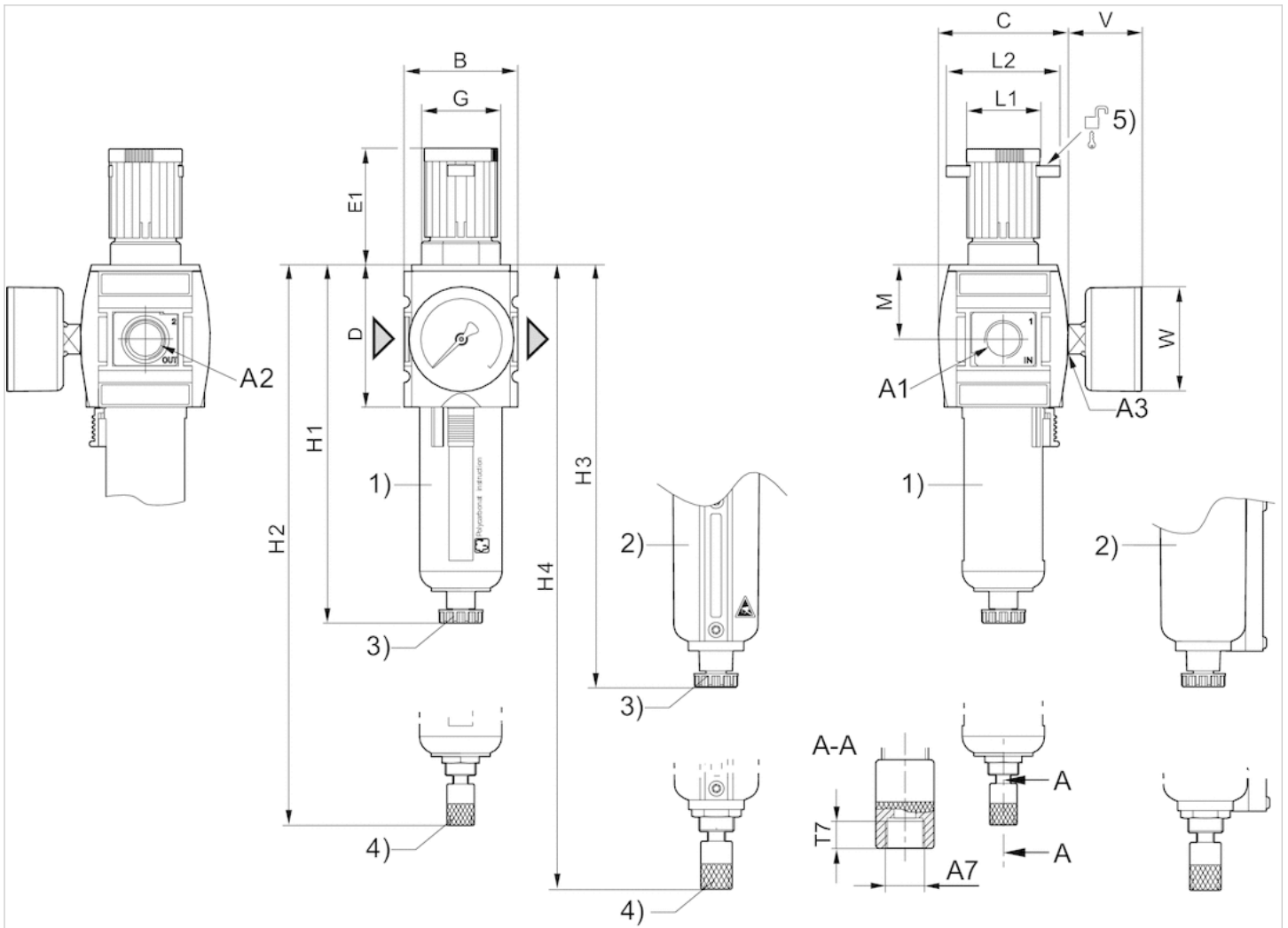
Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

| Material | |
|------------------|-----------------------------|
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions



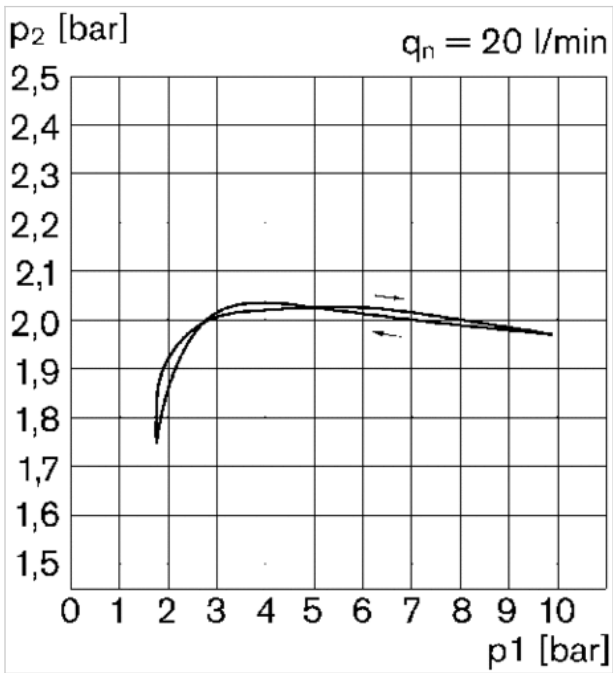
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with level indicator
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) Mounting option for padlocks, max. shackle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

Dimensions in mm

| A1 | A2 | A3 | A7 | B | C | D | E1 | G | H1 | H2 | H3 | H4 | L1 | L2 | M | T7 | V | W |
|-------|-------|-------|-------|----|----|----|------|---------|-------|-----|-------|-------|----|----|------|-----|----|----|
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | -- | -- | -- | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | 206 | -- | -- | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | 193.5 | -- | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | -- | 210.5 | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | -- | -- | -- | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | 206 | -- | -- | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | 193.5 | -- | 41 | 60 | 42.5 | 8.5 | 33 | 50 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | -- | -- | -- | 210.5 | 41 | 60 | 42.5 | 8.5 | 33 | 50 |

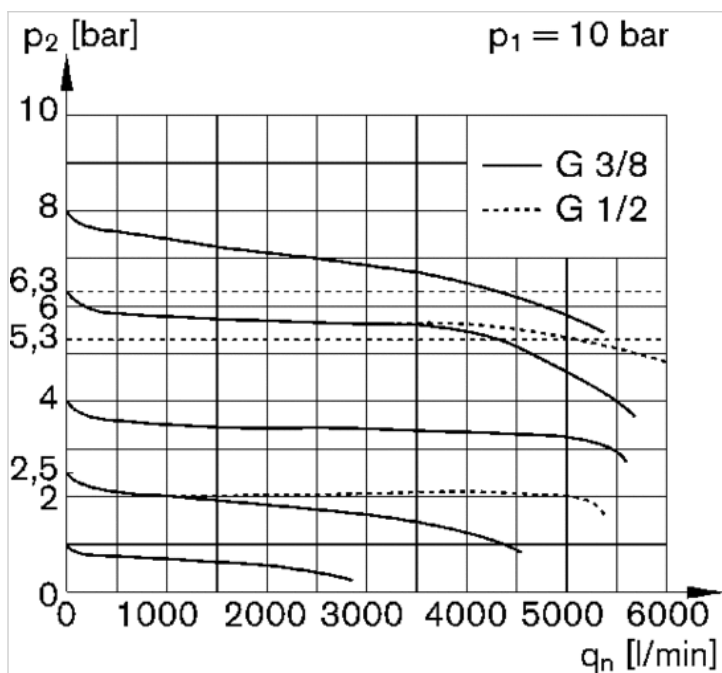
Diagrams

Pressure characteristics curve



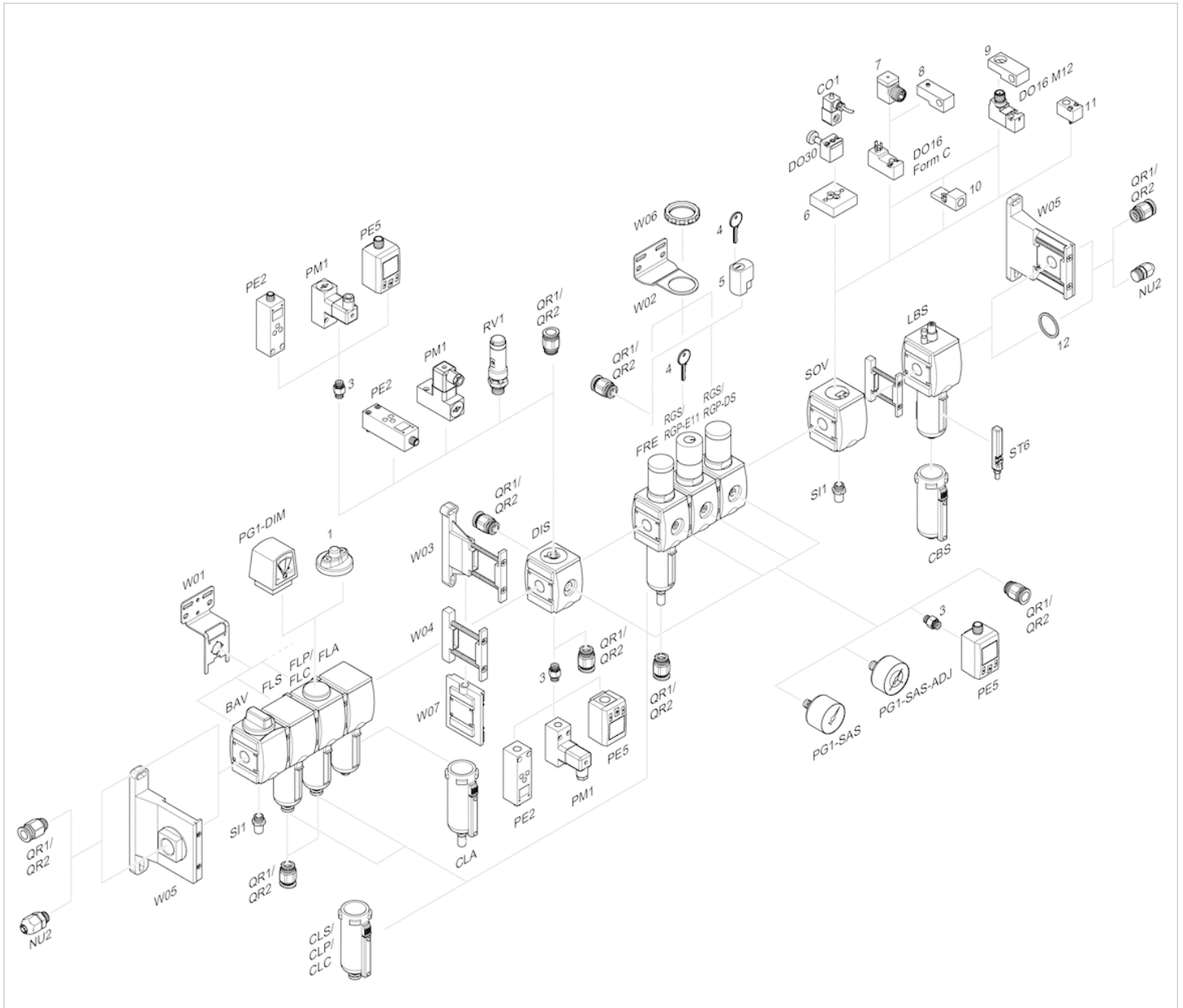
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

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



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

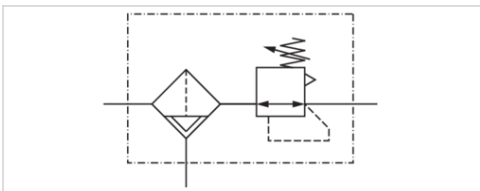
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter pressure regulator, Series AS3-FRE-...-E11

- G 1/2
- filter porosity 5 μm
- lockable
- with E11 locking



| | |
|-------------------------------|------------------------------------------|
| Version | 1-part, Can be assembled into blocks |
| Parts | Filter pressure regulator |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 5100 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.5 ... 10 bar |
| Pressure supply | single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Condensate drain | fully automatic, closed without pressure |
| Weight | 0.635 kg |

Technical data

| Part No. | Port | filter porosity | Flow | Condensate drain |
|------------|-------|-----------------|------------|------------------------------------------|
| | | | Qn | |
| R412007203 | G 1/2 | 5 μm | 5100 l/min | fully automatic, closed without pressure |

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

Technical information

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).

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

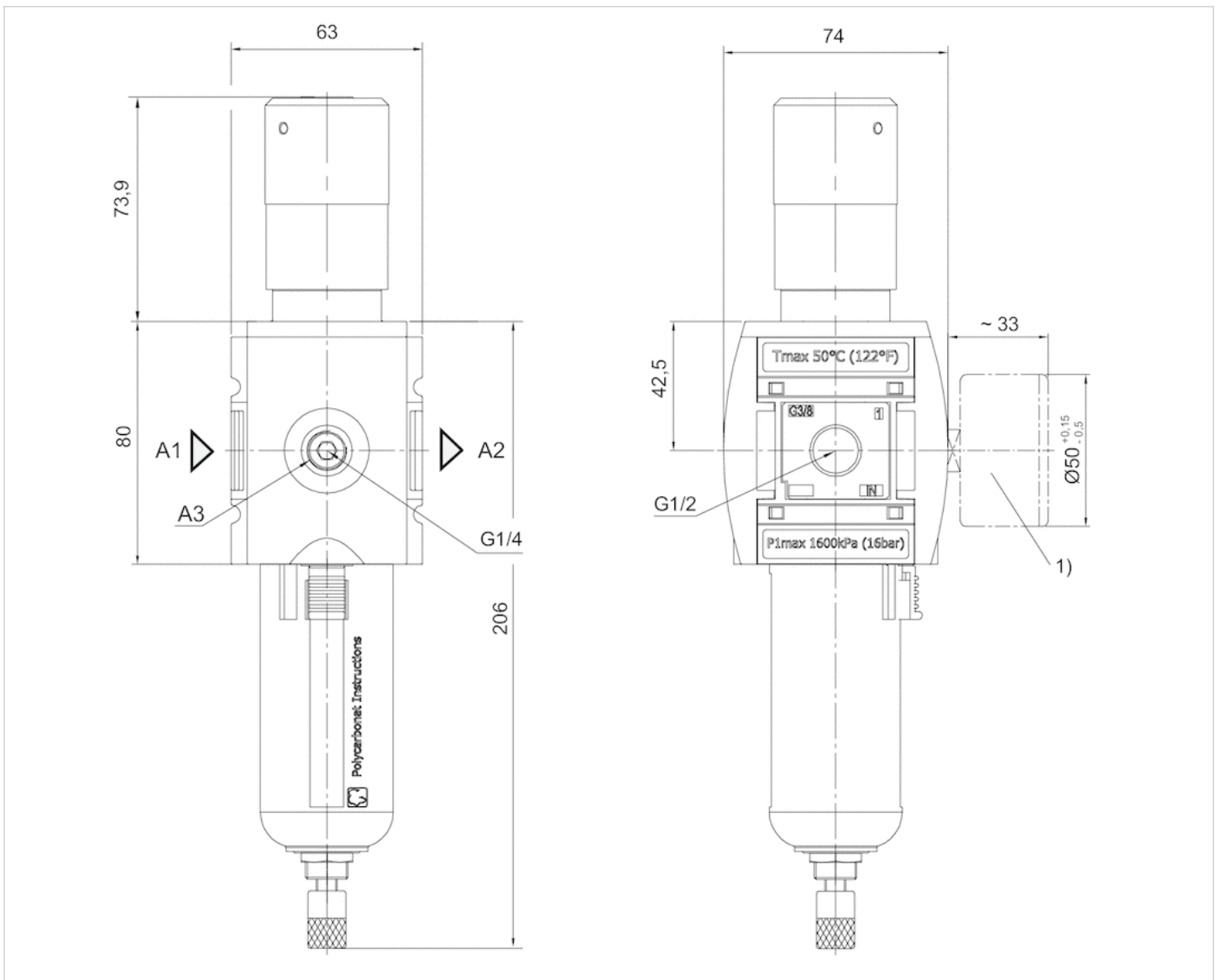
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |

| Material | |
|------------------|--------------------------------|
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

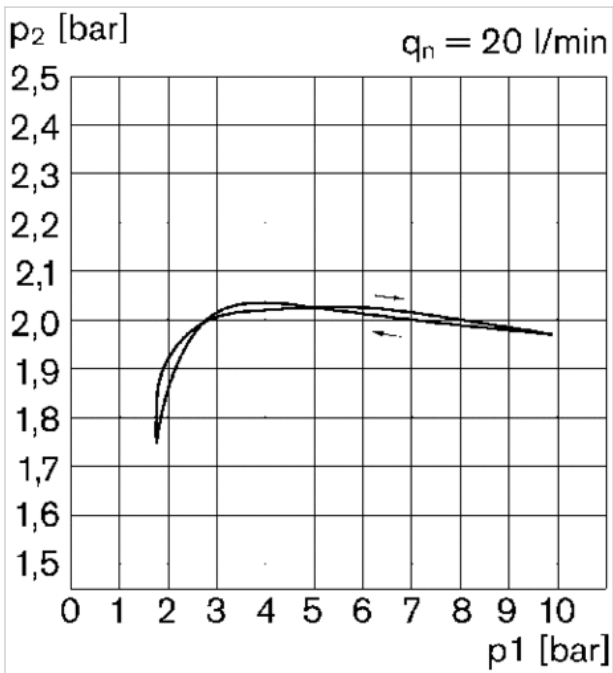
Dimensions



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

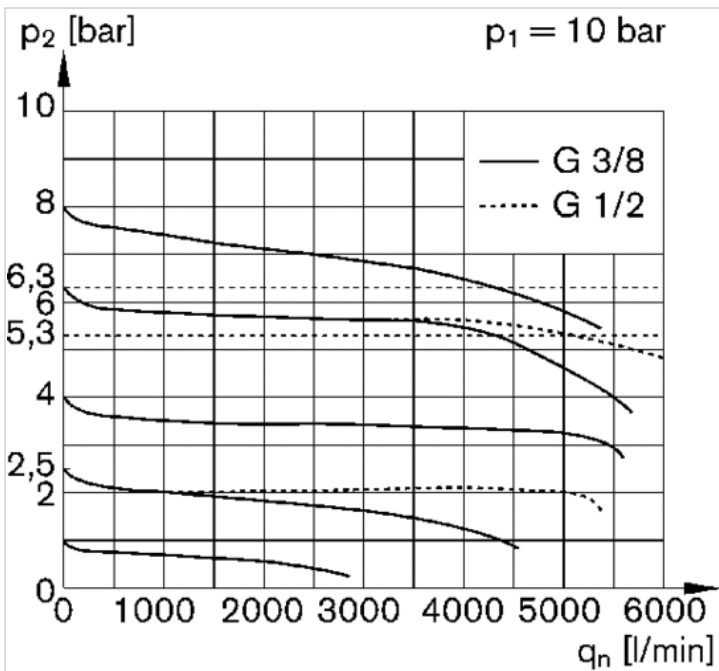
Diagrams

Pressure characteristics curve



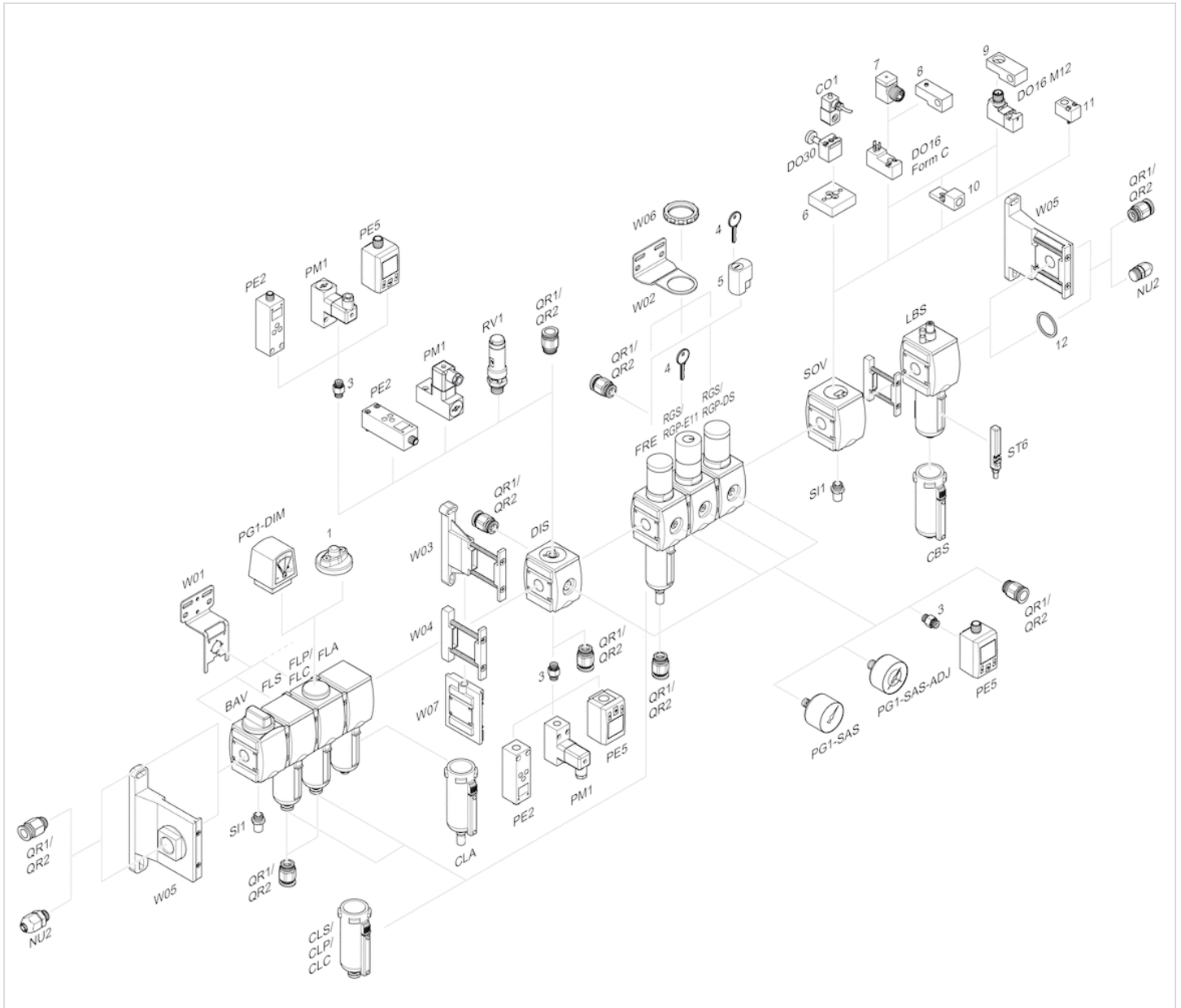
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 0,5 - 8 bar)



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

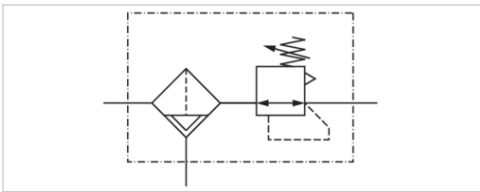
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter pressure regulator, Series AS3-FRE

- G 1/2
- filter porosity 25 µm
- lockable
- for padlocks



| | |
|---------------------------------------------------------------|-------------------------------------------------------|
| Version | 1-part, Can be assembled into blocks |
| Parts | Filter pressure regulator |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 5100 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function Adjustment range min./max. Pressure supply | with relieving air exhaust 0.5 ... 8 bar single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Condensate drain | semi-automatic, open without pressure |
| Weight | 0.797 kg |

Technical data

| Part No. | Port | filter porosity | Flow | Condensate drain |
|------------|-------|-----------------|------------|---------------------------------------|
| | | | Qn | |
| R412007189 | G 1/2 | 25 µm | 5100 l/min | semi-automatic, open without pressure |

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

Order pressure gauge separately.

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

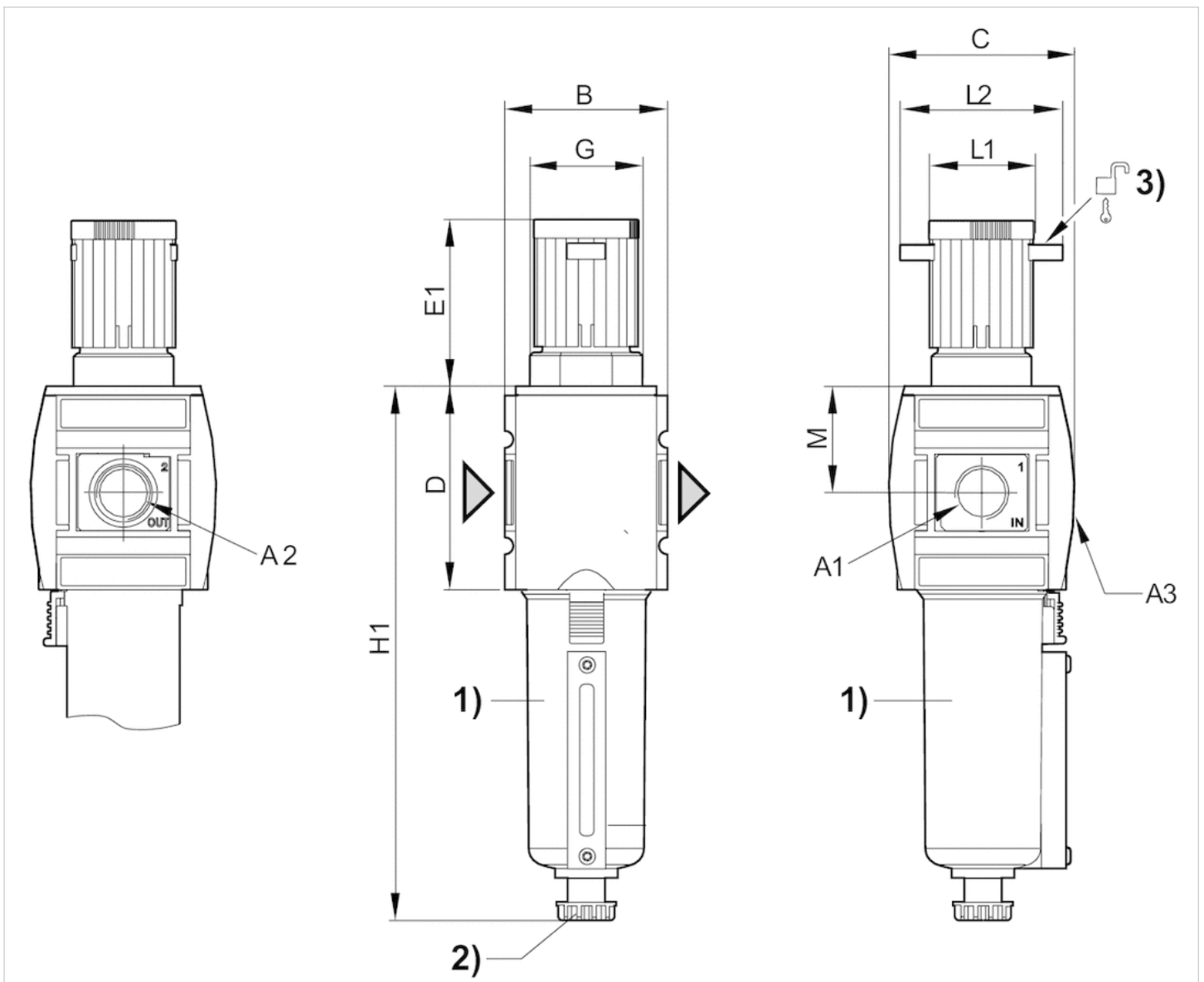
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

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

Dimensions

Dimensions



A1 = input
 A2 = output
 A3 = pressure gauge connection

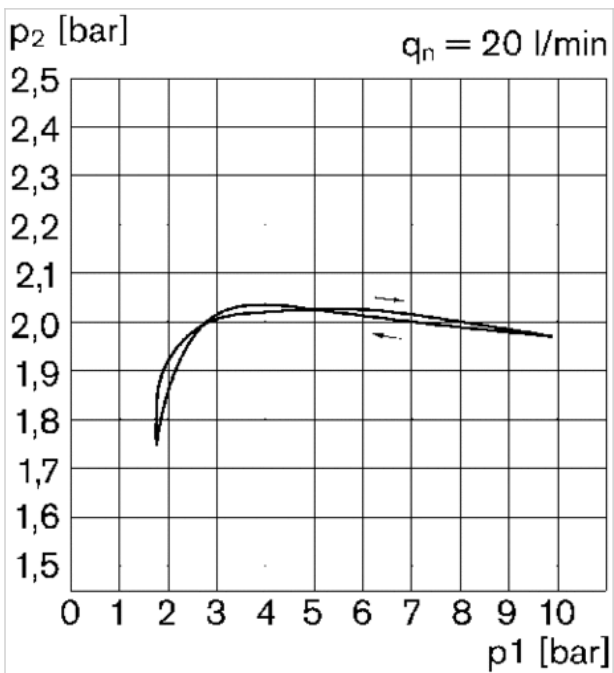
- 1) Metal reservoir with level indicator
- 2) Semi-automatic condensate drain
- 3) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | G | H1 | L1 | L2 | M |
|-------|-------|-------|----|----|----|------|---------|-------|----|----|------|
| G 1/2 | G 1/2 | G 1/4 | 63 | 74 | 80 | 63.5 | M42x1,5 | 193.5 | 41 | 60 | 42.5 |

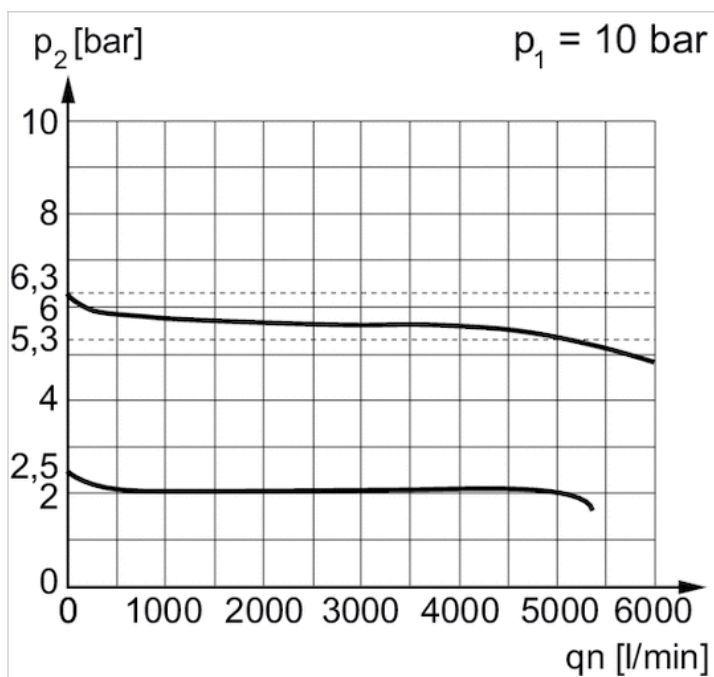
Diagrams

Pressure characteristics curve



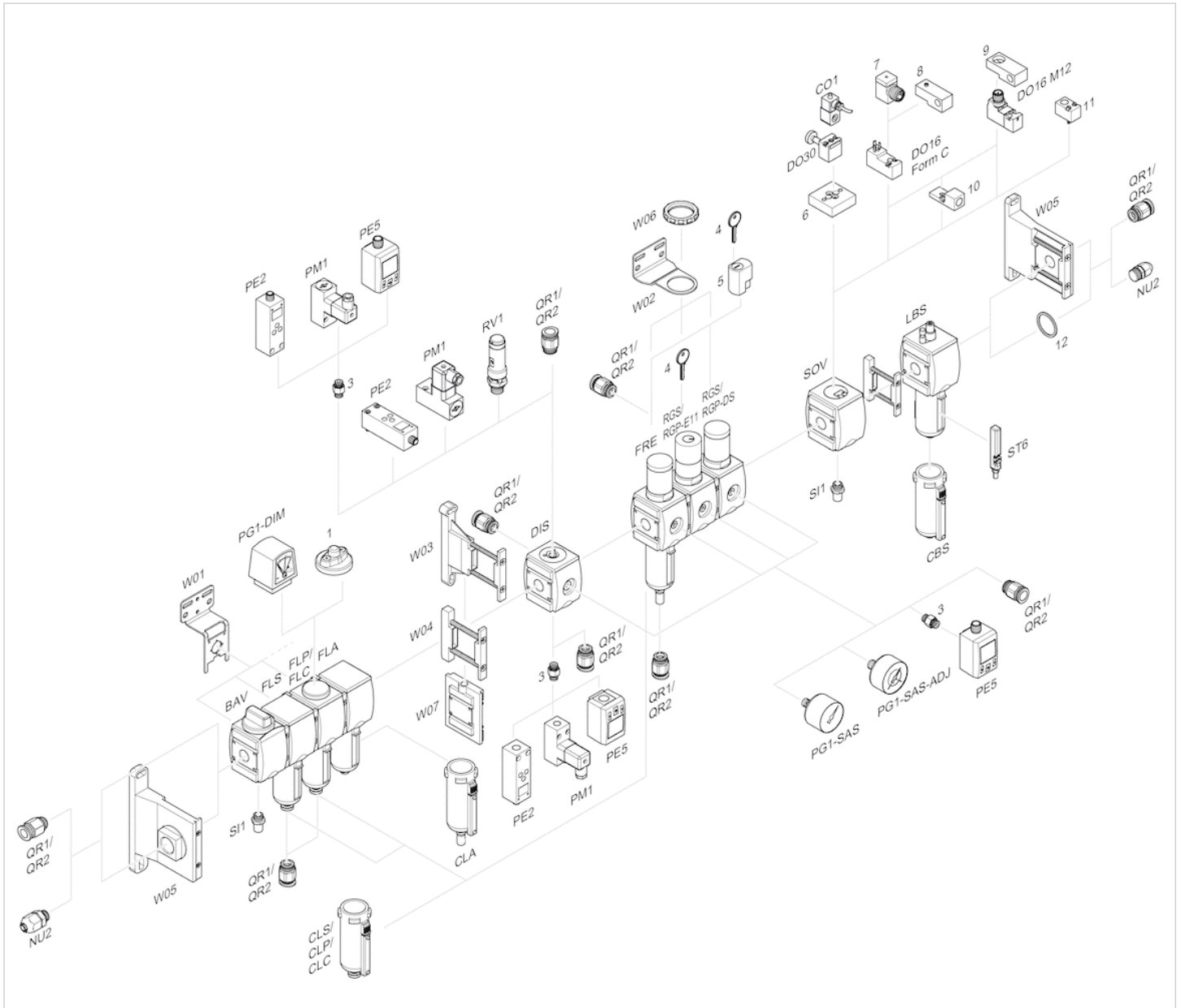
p1 = Working pressure
 p2 = Secondary pressure
 qn = Nominal flow

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



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

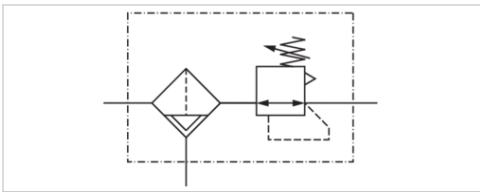
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter pressure regulator, Series AS3-FRE

- G 3/8 G 1/2
- filter porosity 40 µm
- lockable
- for padlocks



| | |
|---------------------------------------------------------------|--------------------------------------------------------|
| Version | 1-part, Can be assembled into blocks |
| Parts | Filter pressure regulator |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 5100 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function Adjustment range min./max. Pressure supply | with relieving air exhaust 0.5 ... 10 bar single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Weight | See table below |

Technical data

| Part No. | Port | filter porosity | Flow | Condensate drain | Weight |
|------------|-------|-----------------|------------|------------------------------------------|----------|
| | | | Qn | | |
| R412007218 | G 3/8 | 40 µm | 5100 l/min | semi-automatic, open without pressure | 0.586 kg |
| R412007219 | G 3/8 | 40 µm | 5100 l/min | fully automatic, open without pressure | 0.635 kg |
| R412007220 | G 3/8 | 40 µm | 5100 l/min | fully automatic, closed without pressure | 0.635 kg |
| R412007221 | G 1/2 | 40 µm | 5100 l/min | semi-automatic, open without pressure | 0.586 kg |
| R412007222 | G 1/2 | 40 µm | 5100 l/min | fully automatic, open without pressure | 0.635 kg |
| R412007223 | G 1/2 | 40 µm | 5100 l/min | fully automatic, closed without pressure | 0.635 kg |

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

Order pressure gauge separately.

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

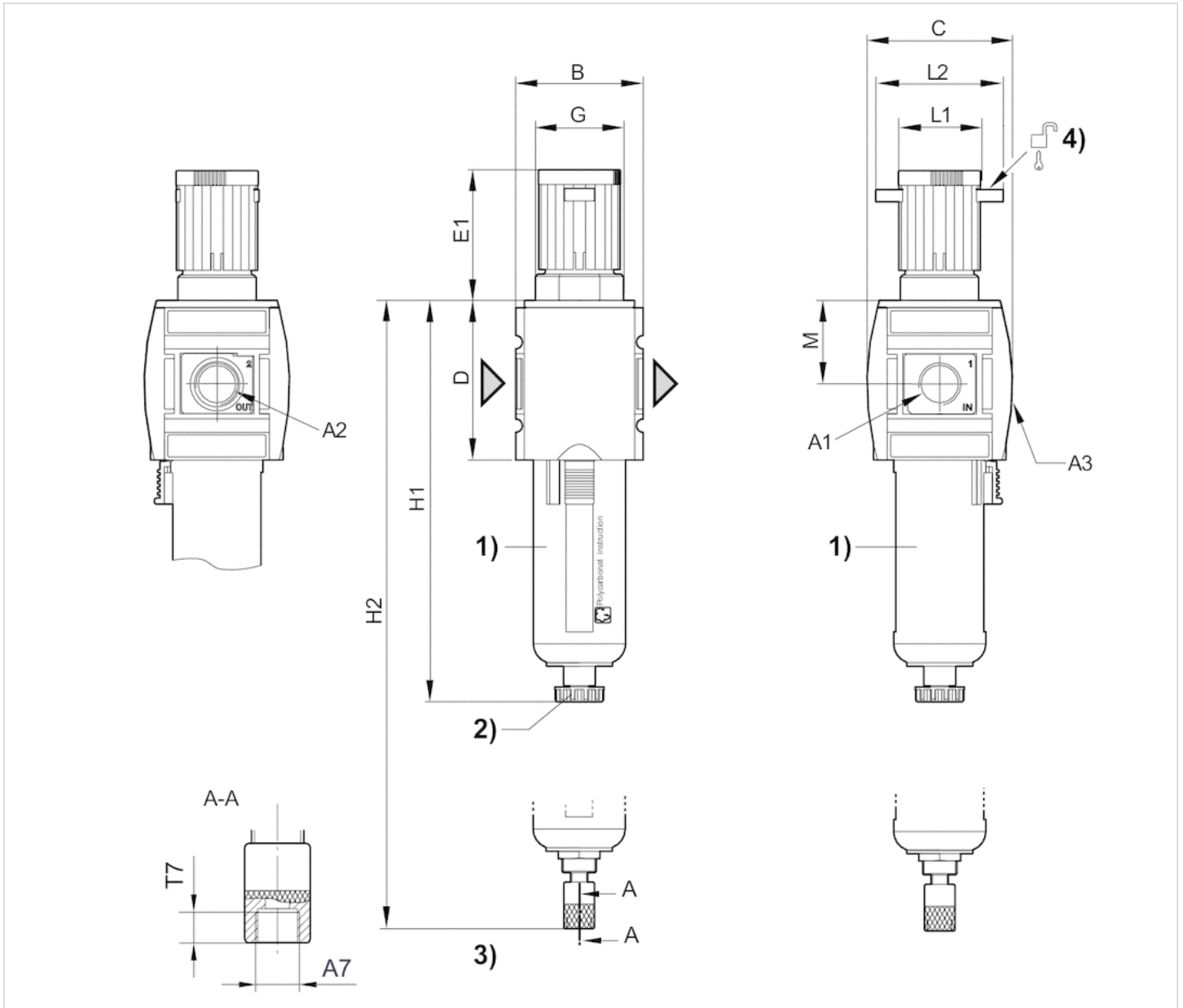
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions



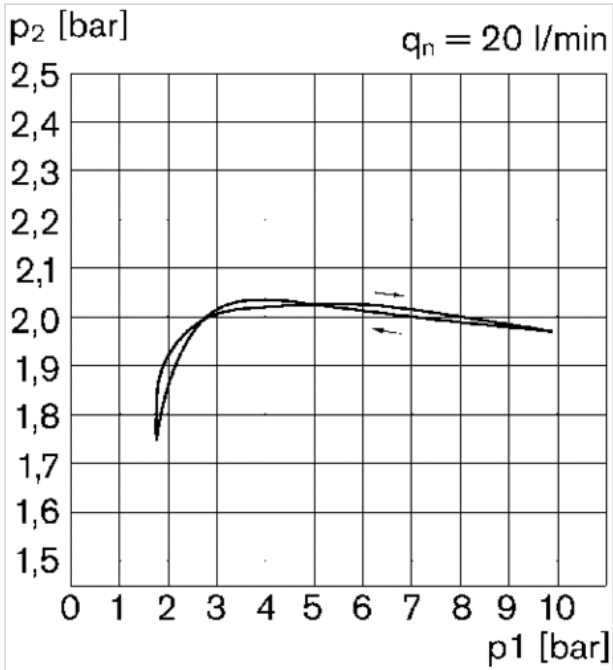
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Semi-automatic condensate drain
- 3) Fully automatic condensate drain
- 4) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A1 | A2 | A3 | A7 | B | C | D | E1 | G | H1 | H2 | L1 | L2 | T7 | M |
|-------|-------|-------|-------|----|----|----|------|---------|-------|-----|----|----|-----|------|
| G 3/8 | G 3/8 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | 206 | 41 | 60 | 8.5 | 42.5 |
| G 1/2 | G 1/2 | G 1/4 | G 1/8 | 63 | 74 | 80 | 63.5 | M42x1,5 | 189.5 | 206 | 41 | 60 | 8.5 | 42.5 |

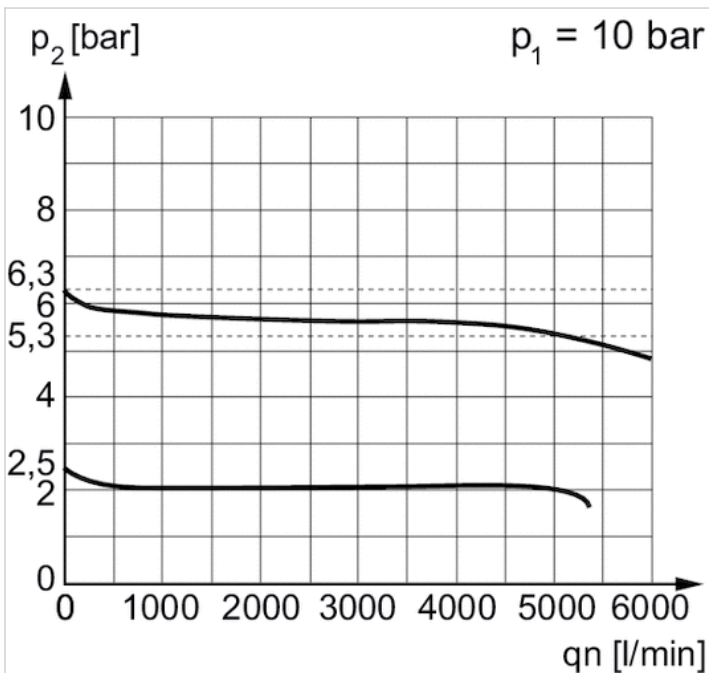
Diagrams

Pressure characteristics curve



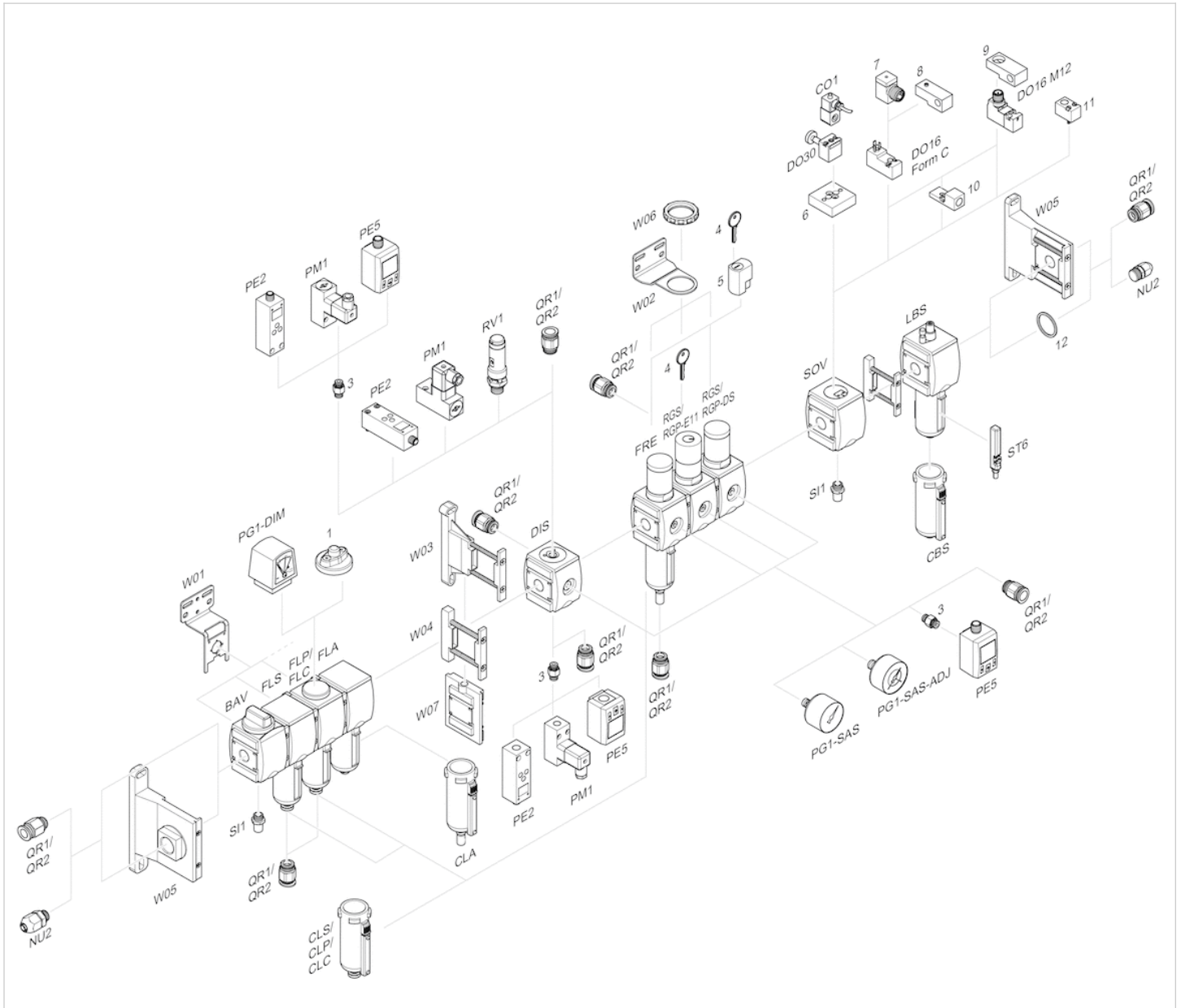
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 0,5 - 8 bar)



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

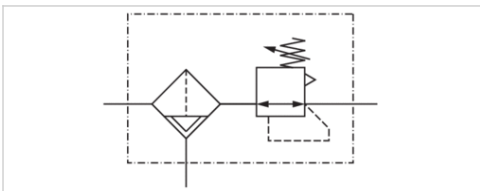
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter pressure regulator, Series AS3-FRE-...-E11

- G 1/2
- filter porosity 40 µm
- lockable
- with E11 locking



| | |
|-------------------------------|------------------------------------------|
| Version | 1-part, Can be assembled into blocks |
| Parts | Filter pressure regulator |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Nominal flow Qn | 5100 l/min |
| Regulator type | Diaphragm-type pressure regulator |
| Regulator function | with relieving air exhaust |
| Adjustment range min./max. | 0.5 ... 10 bar |
| Pressure supply | single |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Condensate drain | fully automatic, closed without pressure |
| Weight | 0.635 kg |

Technical data

| Part No. | Port | filter porosity | Flow | Condensate drain |
|------------|-------|-----------------|------------|------------------------------------------|
| | | | Qn | |
| R412007204 | G 1/2 | 40 µm | 5100 l/min | fully automatic, closed without pressure |

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

Technical information

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).

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

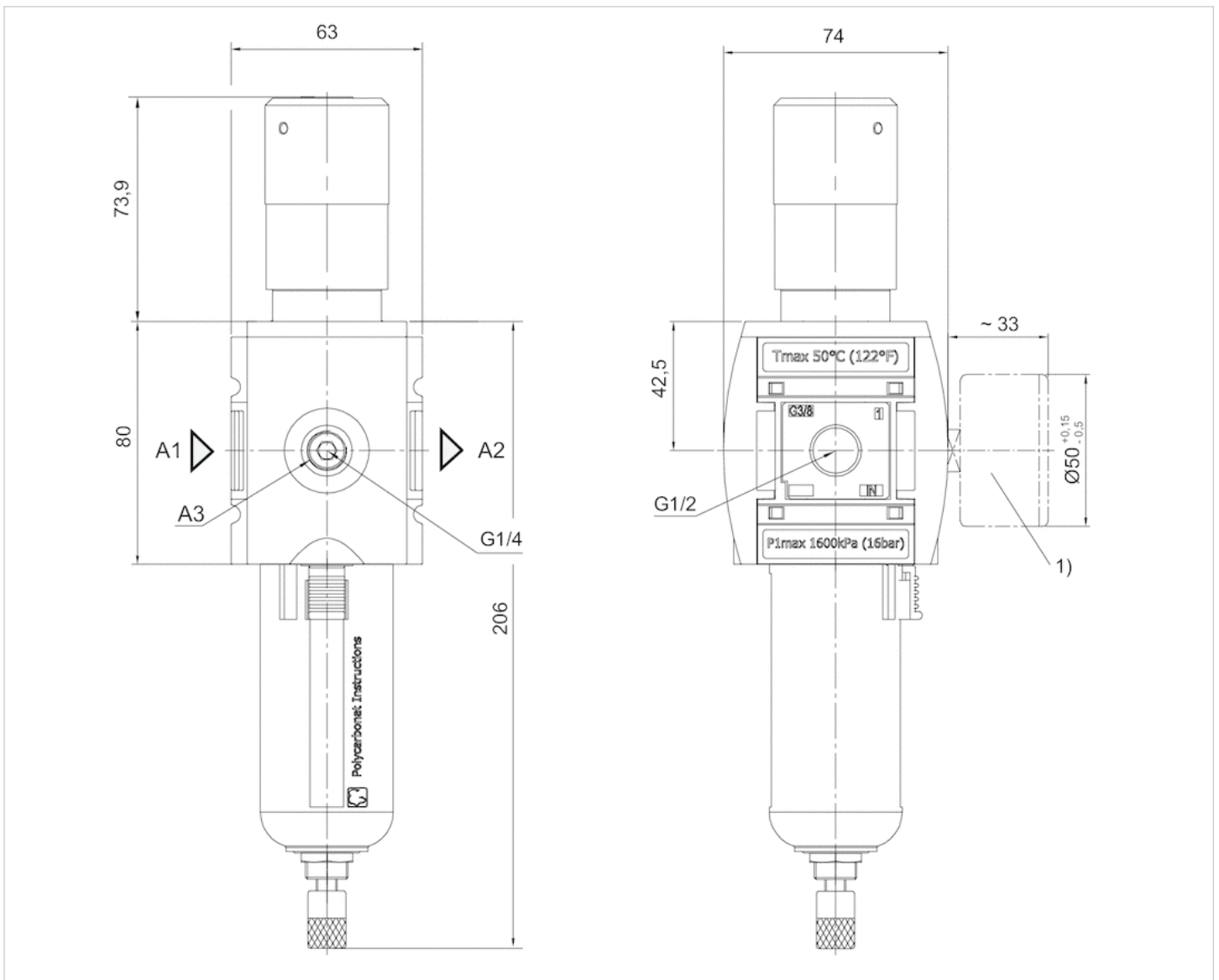
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |

| Material | |
|------------------|--------------------------------|
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

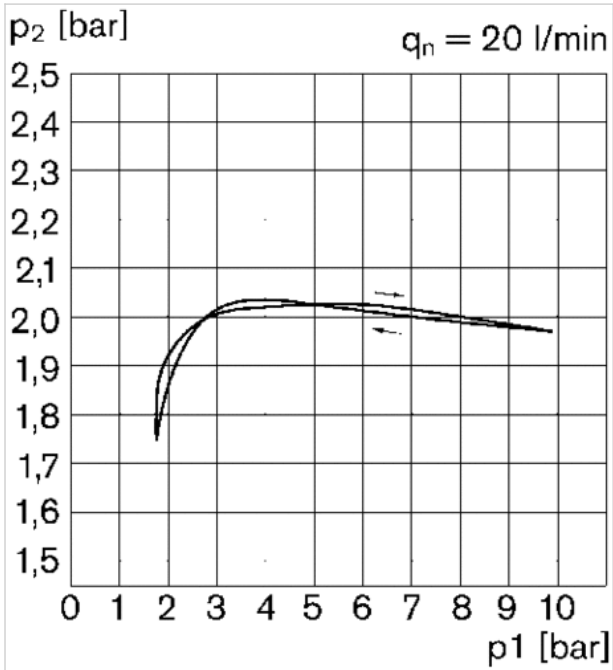
Dimensions



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

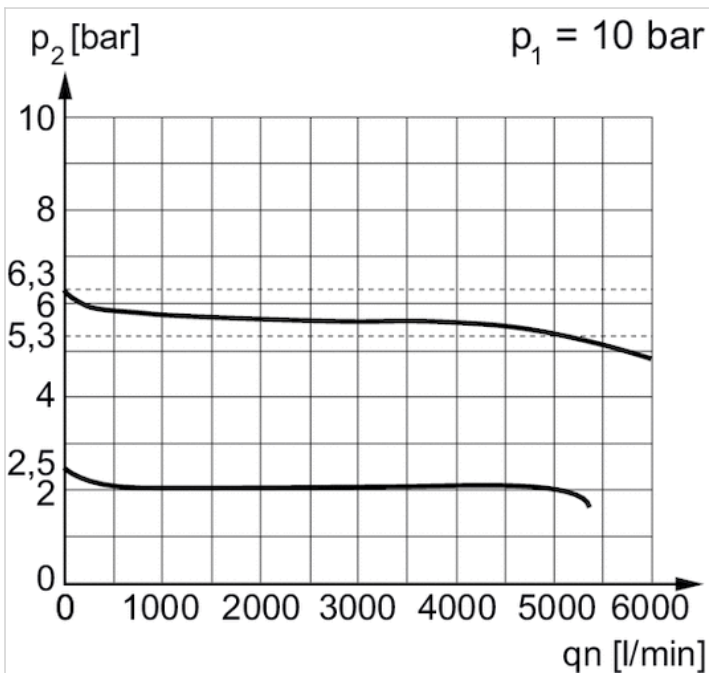
Diagrams

Pressure characteristics curve



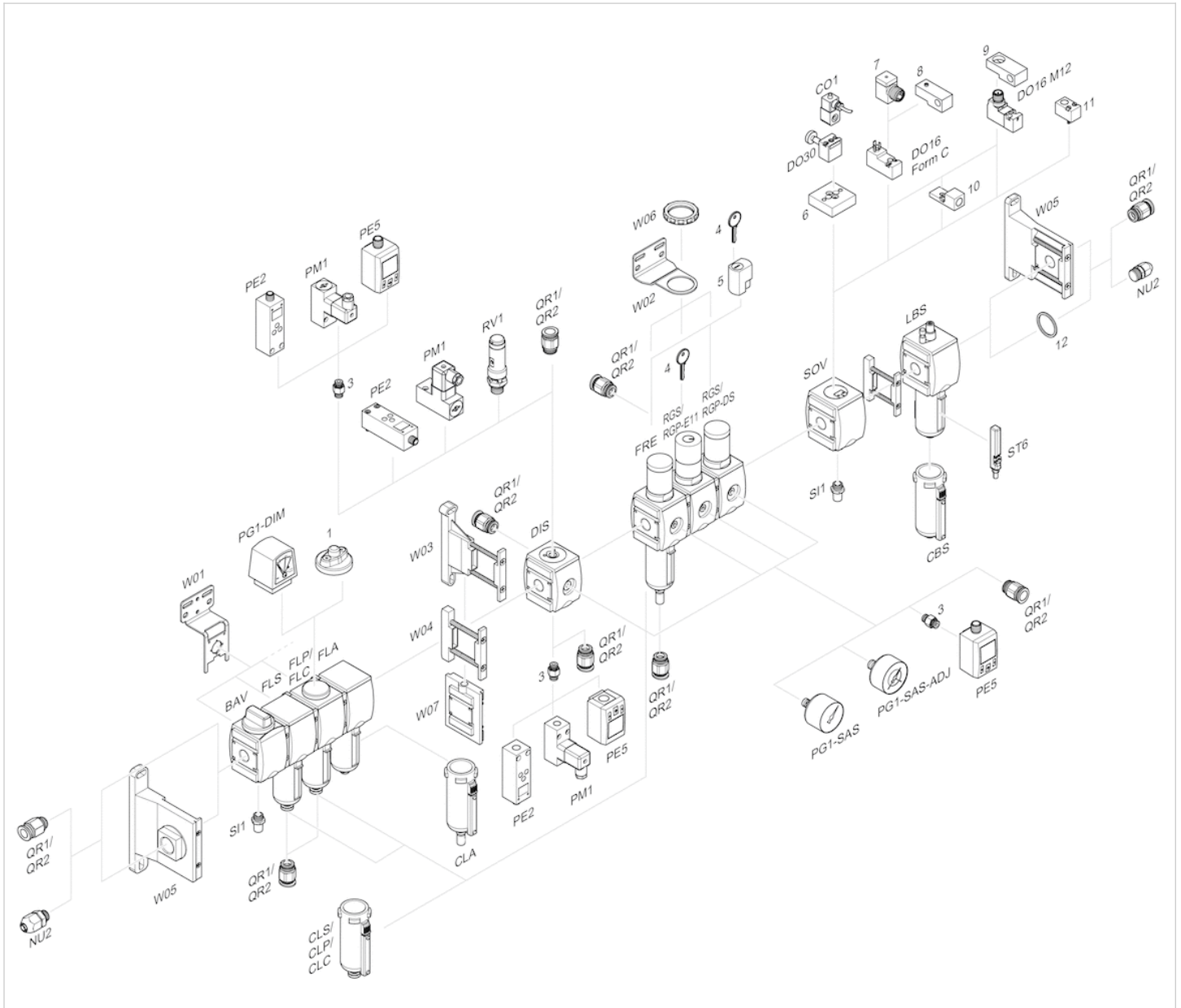
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic (p_2 : 0,5 - 8 bar)



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Accessories overview

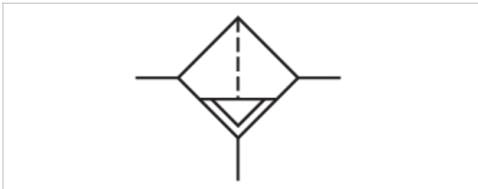


- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter, Series AS3-FLS

- G 3/8 G 1/2

- filter porosity 5 µm



| | |
|-------------------------------|-----------------------------------------------|
| Version | Standard filter, Can be assembled into blocks |
| Parts | Filter |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| filter porosity | 5 µm |
| Condensate drain | See table below |
| Weight | See table below |

Technical data

| Part No. | Port | Flow Qn | Condensate drain |
|------------|-------|------------|------------------------------------------|
| R412007000 | G 3/8 | 3500 l/min | semi-automatic, open without pressure |
| R412007001 | G 3/8 | 3500 l/min | fully automatic, open without pressure |
| R412007002 | G 3/8 | 3500 l/min | fully automatic, closed without pressure |
| R412007006 | G 3/8 | 3500 l/min | semi-automatic, open without pressure |
| R412007007 | G 3/8 | 3500 l/min | fully automatic, open without pressure |
| R412007008 | G 3/8 | 3500 l/min | fully automatic, closed without pressure |
| R412007009 | G 1/2 | 3500 l/min | semi-automatic, open without pressure |
| R412007010 | G 1/2 | 3500 l/min | fully automatic, open without pressure |
| R412007011 | G 1/2 | 3500 l/min | fully automatic, closed without pressure |
| R412007015 | G 1/2 | 3500 l/min | semi-automatic, open without pressure |
| R412007016 | G 1/2 | 3500 l/min | fully automatic, open without pressure |
| R412007017 | G 1/2 | 3500 l/min | fully automatic, closed without pressure |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007000 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |
| R412007001 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007002 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007006 | - | 0.723 kg |
| R412007007 | - | 0.79 kg |
| R412007008 | - | 0.79 kg |
| R412007009 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007010 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007011 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007015 | - | 0.716 kg |
| R412007016 | - | 0.769 kg |
| R412007017 | - | 0.769 kg |

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

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

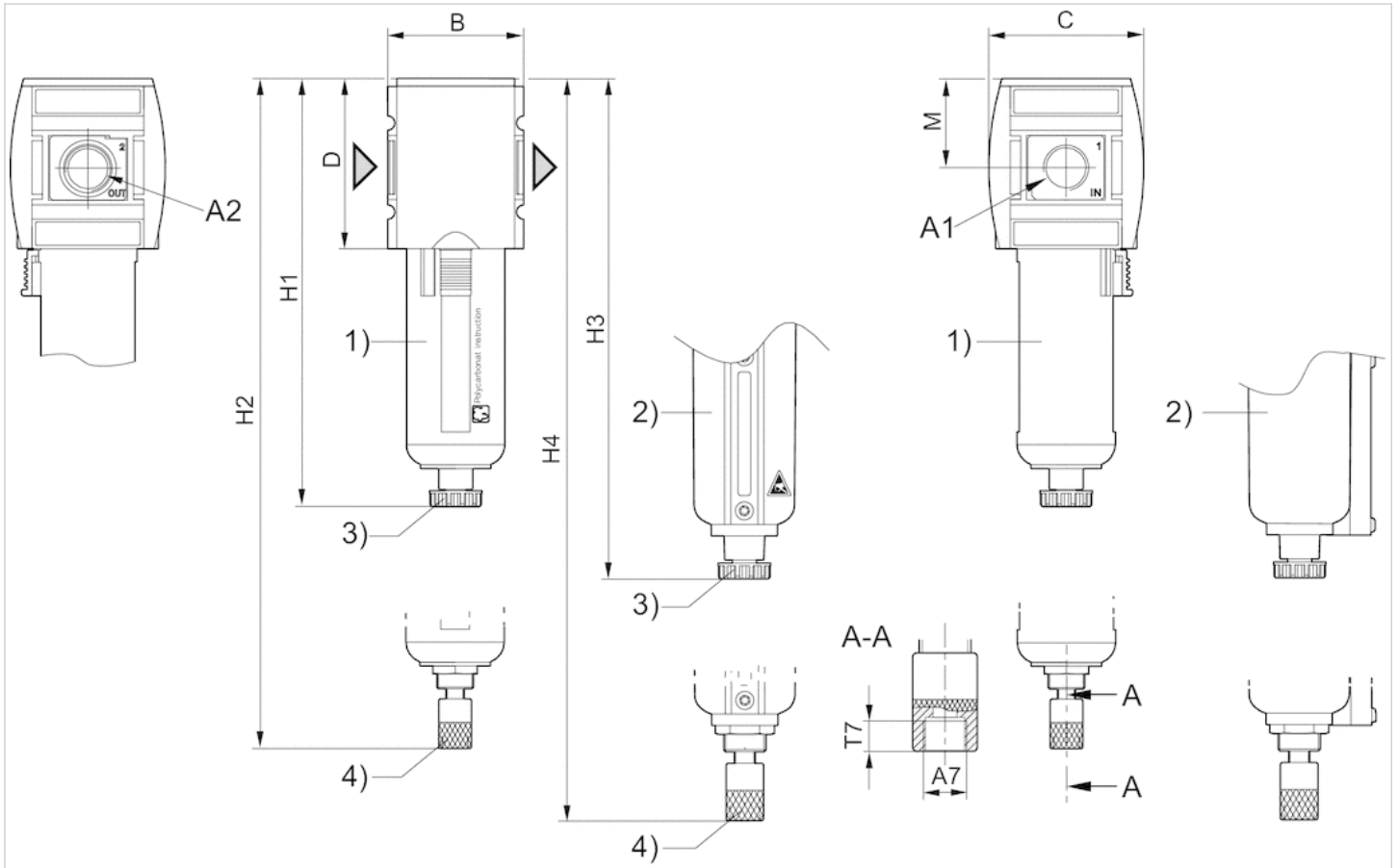
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions



A1 = input

A2 = output

A7 = condensate drain

1) Plastic reservoir and protective guard with window

2) Metal reservoir with level indicator

3) Semi-automatic condensate drain

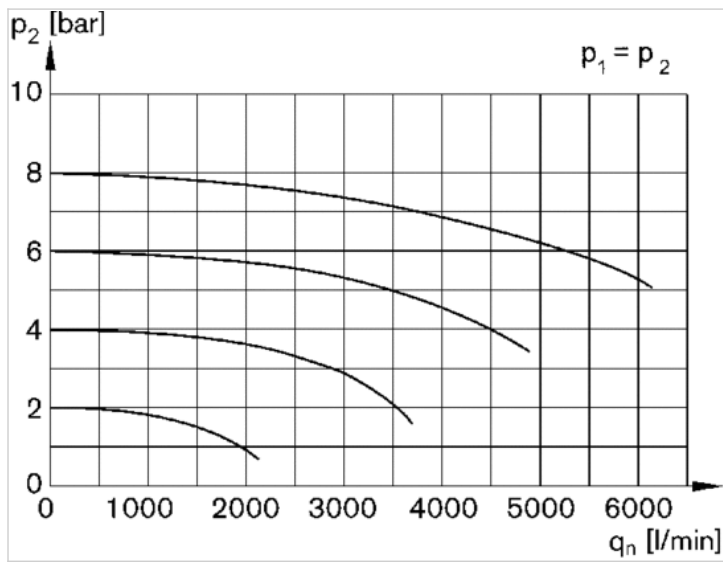
4) Fully automatic condensate drain

Dimensions in mm

| A1 | A2 | A7 | B | C | D | H1 | H2 | H3 | H4 | M | T7 |
|-------|-------|-------|----|----|----|-------|-----|-------|-------|------|-----|
| G 3/8 | G 3/8 | G 1/8 | 63 | 74 | 80 | 189.5 | 206 | 193.5 | 210.5 | 42.5 | 8.5 |
| G 1/2 | G 1/2 | G 1/8 | 63 | 74 | 80 | 189.5 | 206 | 193.5 | 210.5 | 42.5 | 8.5 |

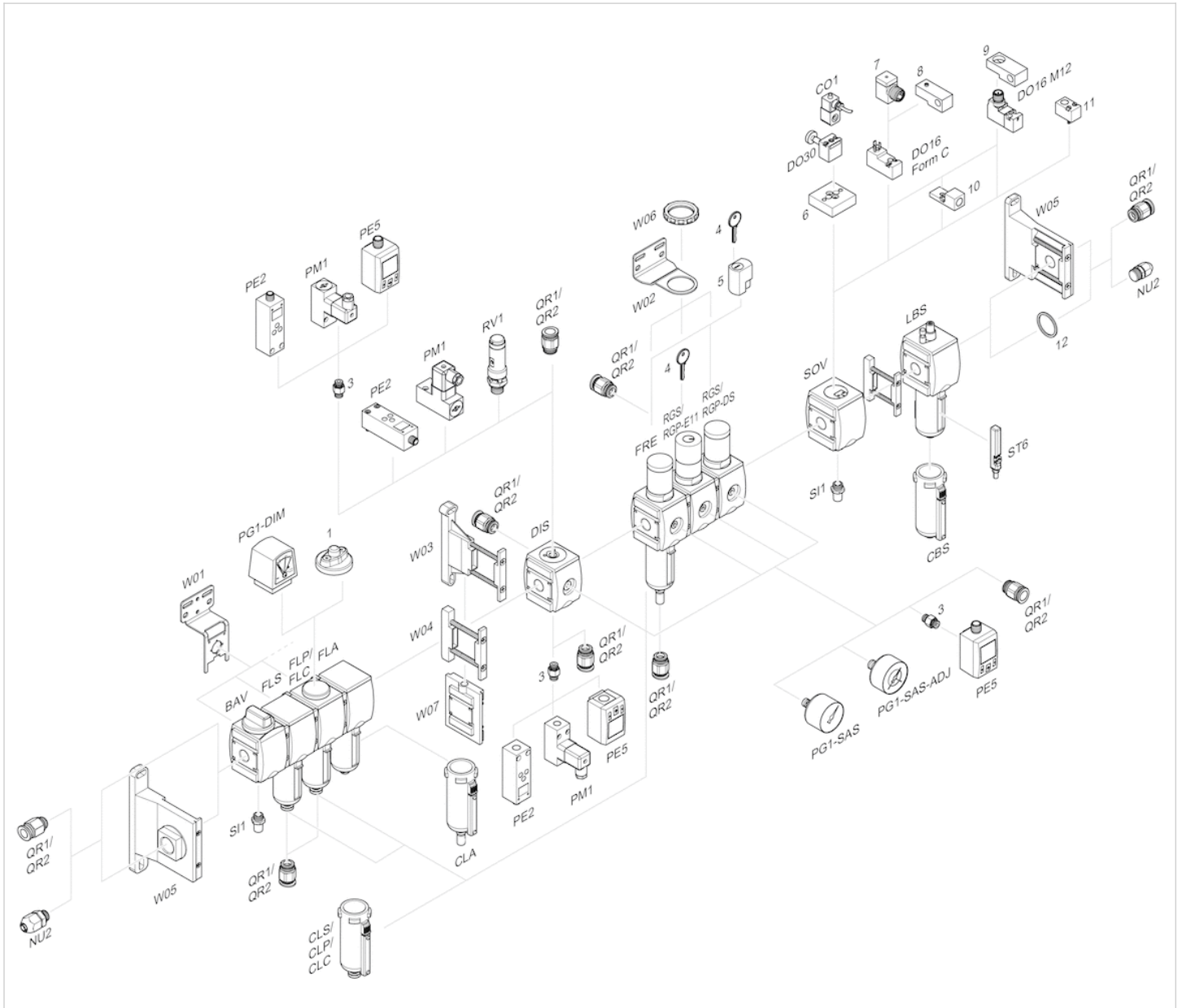
Diagrams

Flow rate characteristic



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

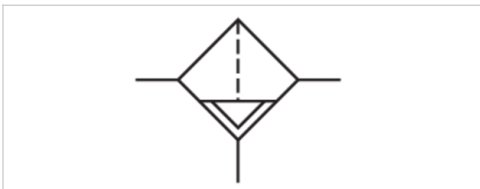
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter, Series AS3-FLS

- G 1/2
- filter porosity 25 μm



| | |
|-------------------------------|-----------------------------------------------|
| Version | Standard filter, Can be assembled into blocks |
| Parts | Filter |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| filter porosity | 25 μm |
| Condensate drain | semi-automatic, open without pressure |
| Weight | 0.361 kg |

Technical data

| Part No. | Port | Flow Qn |
|------------|-------|------------|
| R412007090 | G 1/2 | 3500 l/min |

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

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

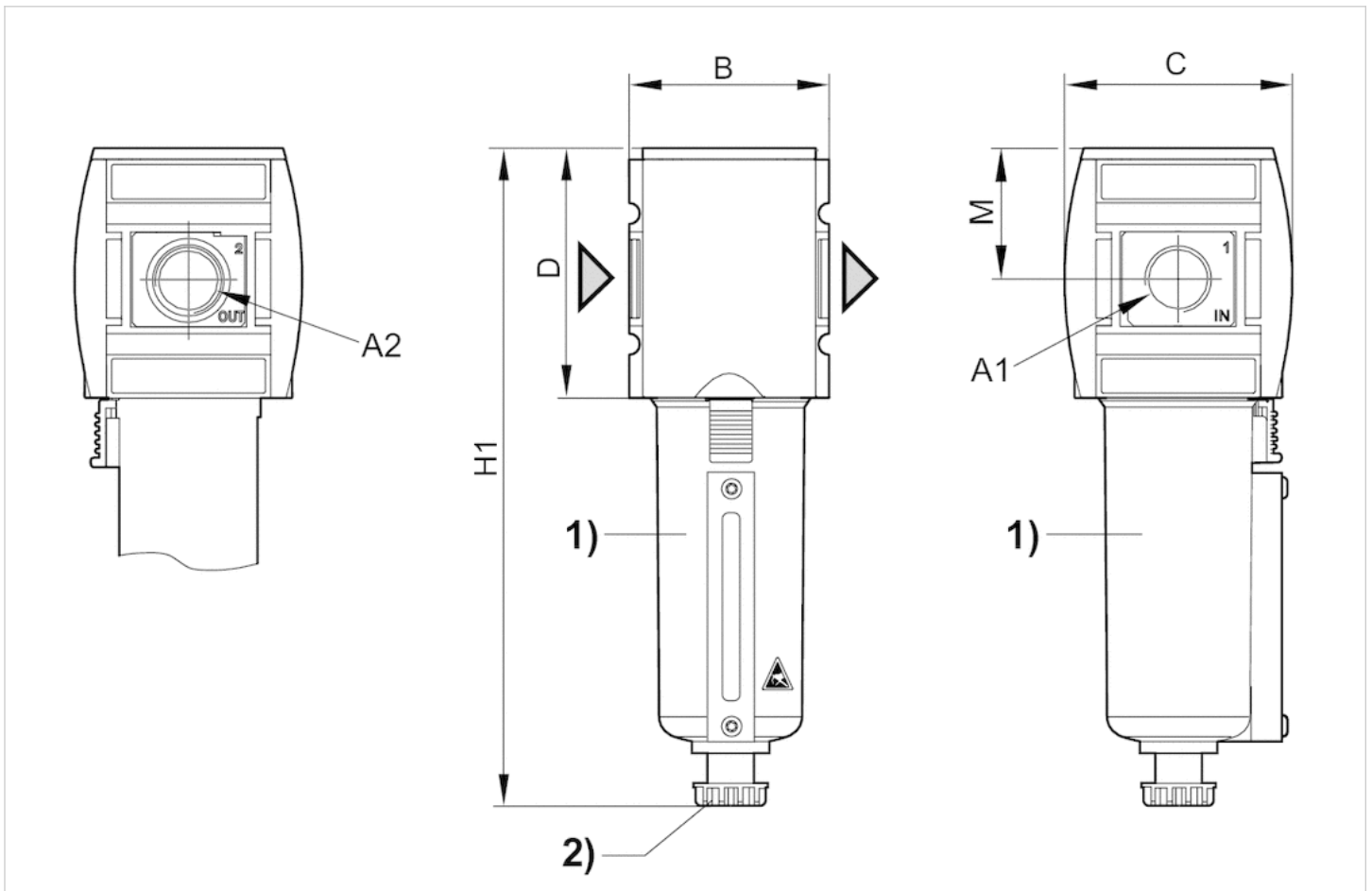
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

| Material | |
|------------------|---------------|
| Threaded bushing | Die cast zinc |
| Reservoir | Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions



A1 = input

A2 = output

1) Metal reservoir with level indicator

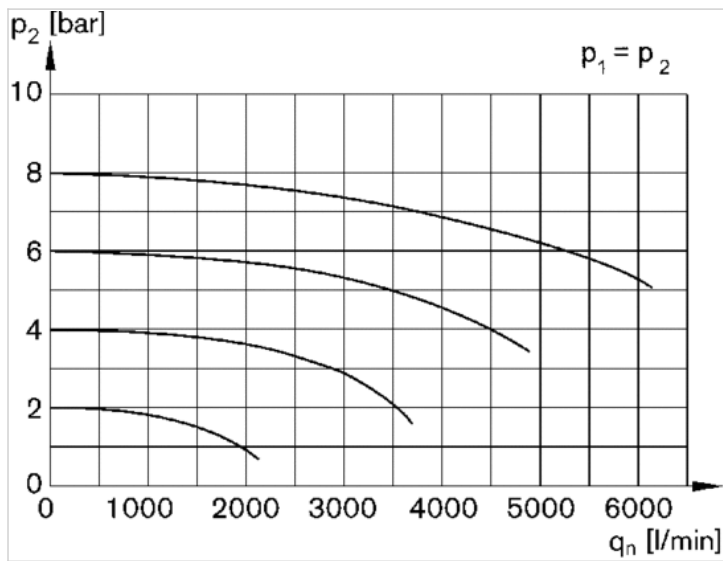
2) Semi-automatic condensate drain

Dimensions in mm

| A1 | A2 | B | C | D | H1 | M |
|-------|-------|----|----|----|-------|------|
| G 1/2 | G 1/2 | 63 | 74 | 80 | 193.5 | 42.5 |

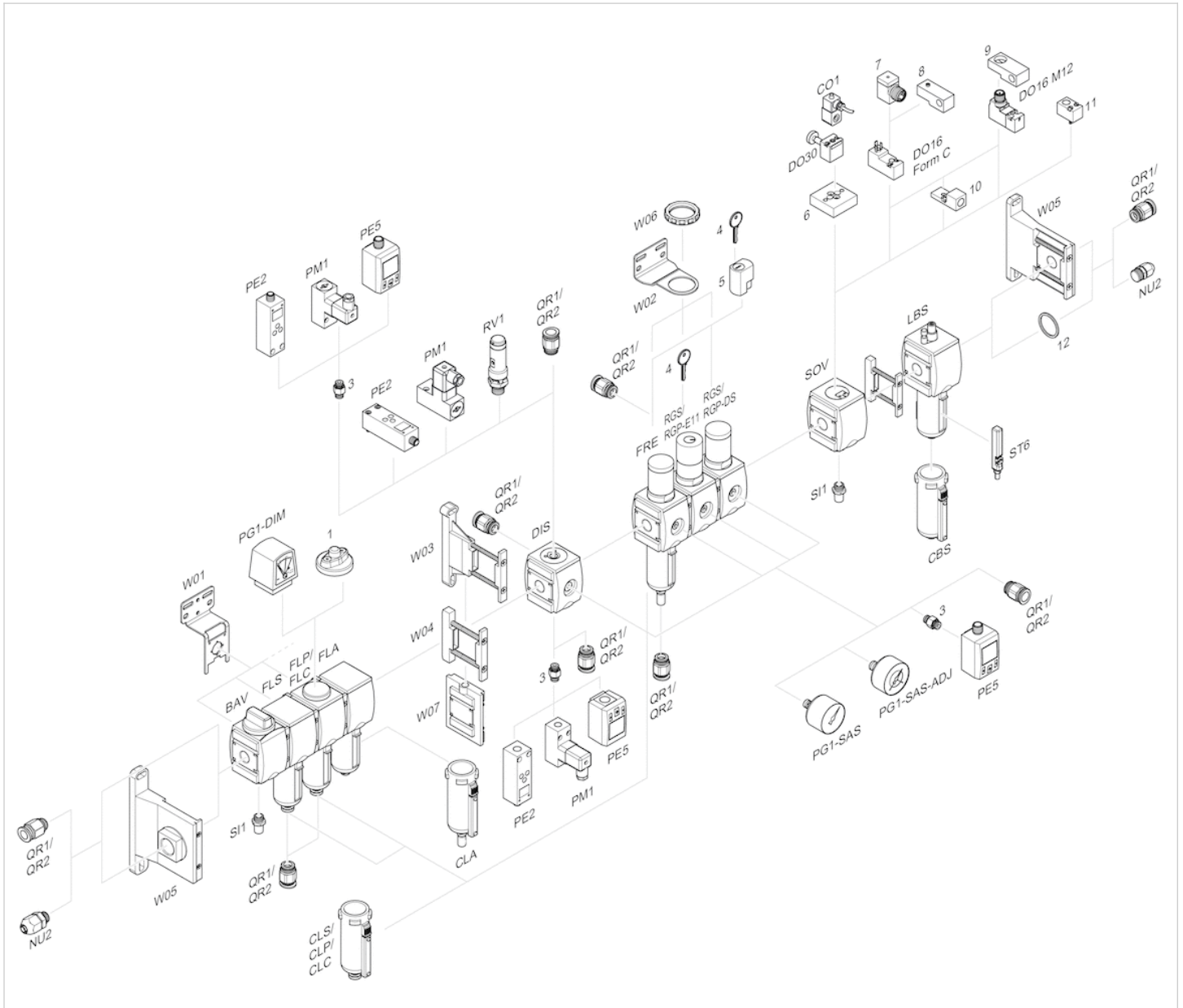
Diagrams

Flow rate characteristic



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Accessories overview

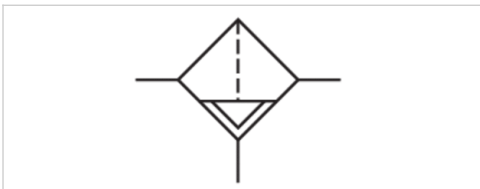


- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filter, Series AS3-FLS

- G 3/8 G 1/2

- filter porosity 40 µm



Version

Parts

Mounting orientation

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Filter reservoir volume

Filter element

filter porosity

Condensate drain

Weight

Standard filter, Can be assembled into blocks

Filter

vertical

1.5 ... 16 bar

-10 ... 50 °C

-10 ... 50 °C

Compressed air Neutral gases

49 cm³

exchangeable

40 µm

See table below

See table below

Technical data

| Part No. | Port | Flow Qn | Condensate drain | Weight | Fig. |
|------------|-------|------------|------------------------------------------|----------|--------|
| R412007003 | G 3/8 | 3500 l/min | semi-automatic, open without pressure | 0.361 kg | Fig. 1 |
| R412007004 | G 3/8 | 3500 l/min | fully automatic, open without pressure | 0.41 kg | Fig. 2 |
| R412007005 | G 3/8 | 3500 l/min | fully automatic, closed without pressure | 0.41 kg | Fig. 2 |
| R412007012 | G 1/2 | 3500 l/min | semi-automatic, open without pressure | 0.361 kg | Fig. 3 |
| R412007013 | G 1/2 | 3500 l/min | fully automatic, open without pressure | 0.41 kg | Fig. 4 |
| R412007014 | G 1/2 | 3500 l/min | fully automatic, closed without pressure | 0.41 kg | Fig. 4 |

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

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

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

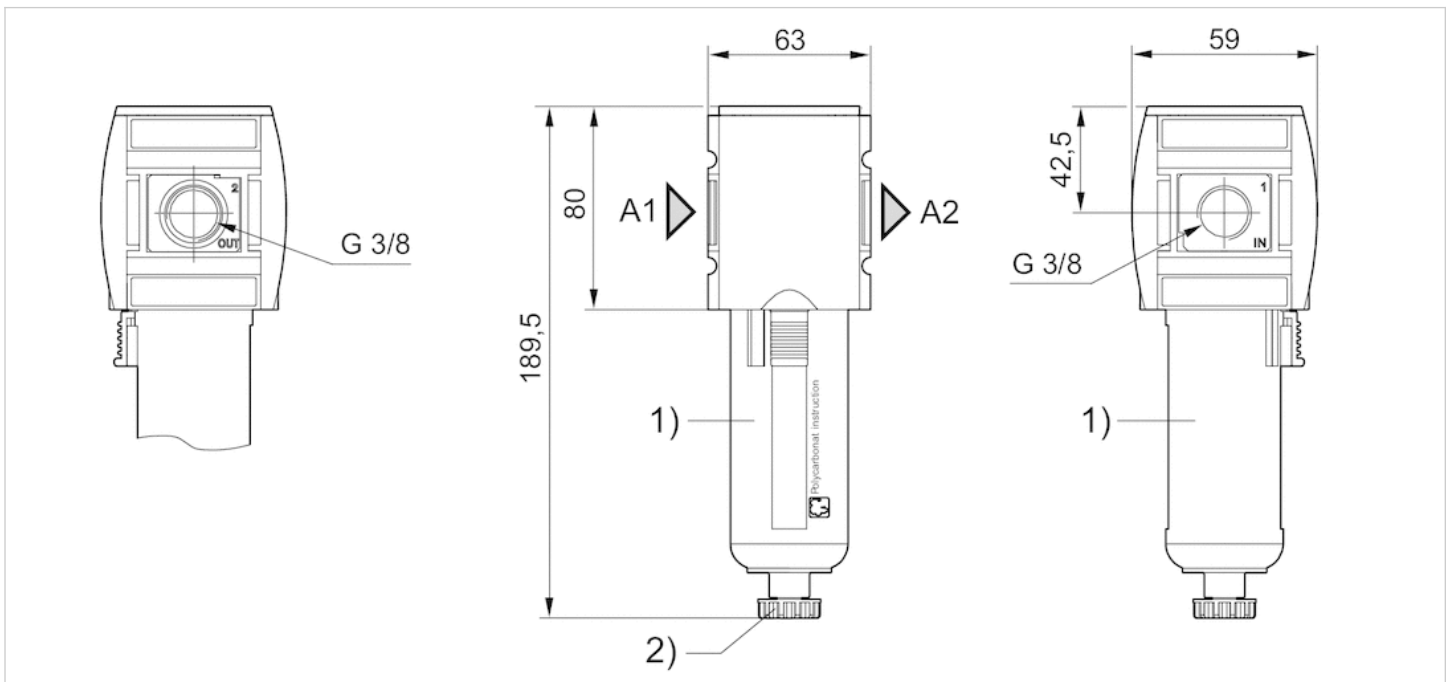
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate |
| Protective guard | Polyamide |
| Filter insert | Polyethylene |

Dimensions

Dimensions in mm, Fig. 1



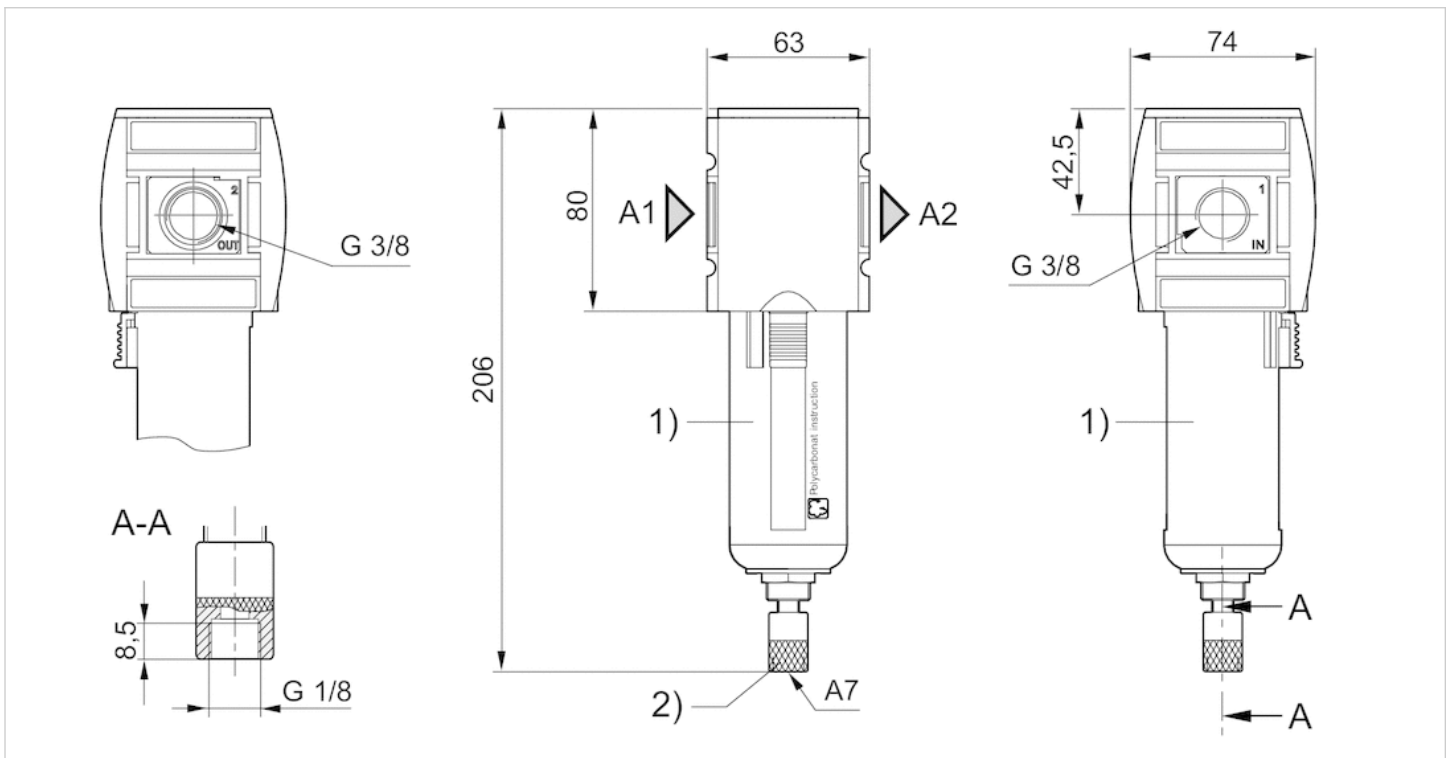
A1 = input

A2 = output

1) Plastic reservoir and protective guard with window

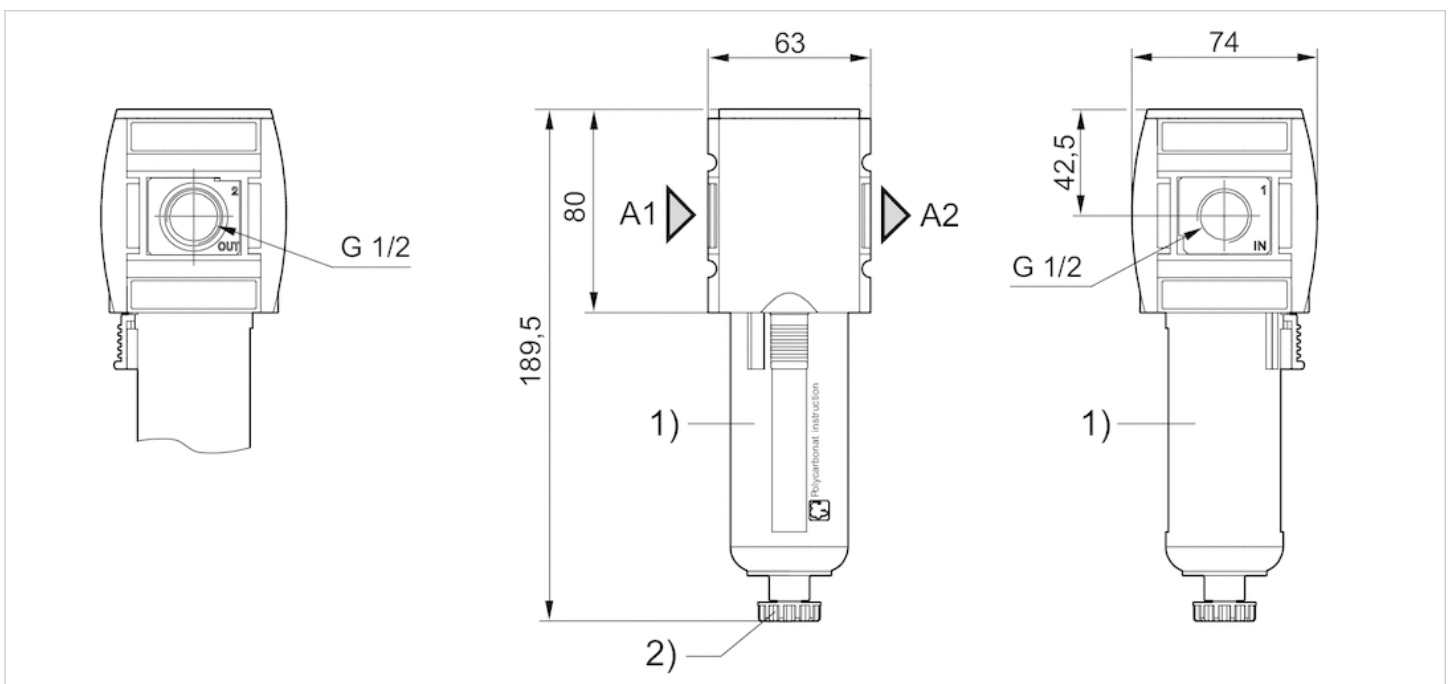
2) Semi-automatic condensate drain

Dimensions in mm, Fig. 2



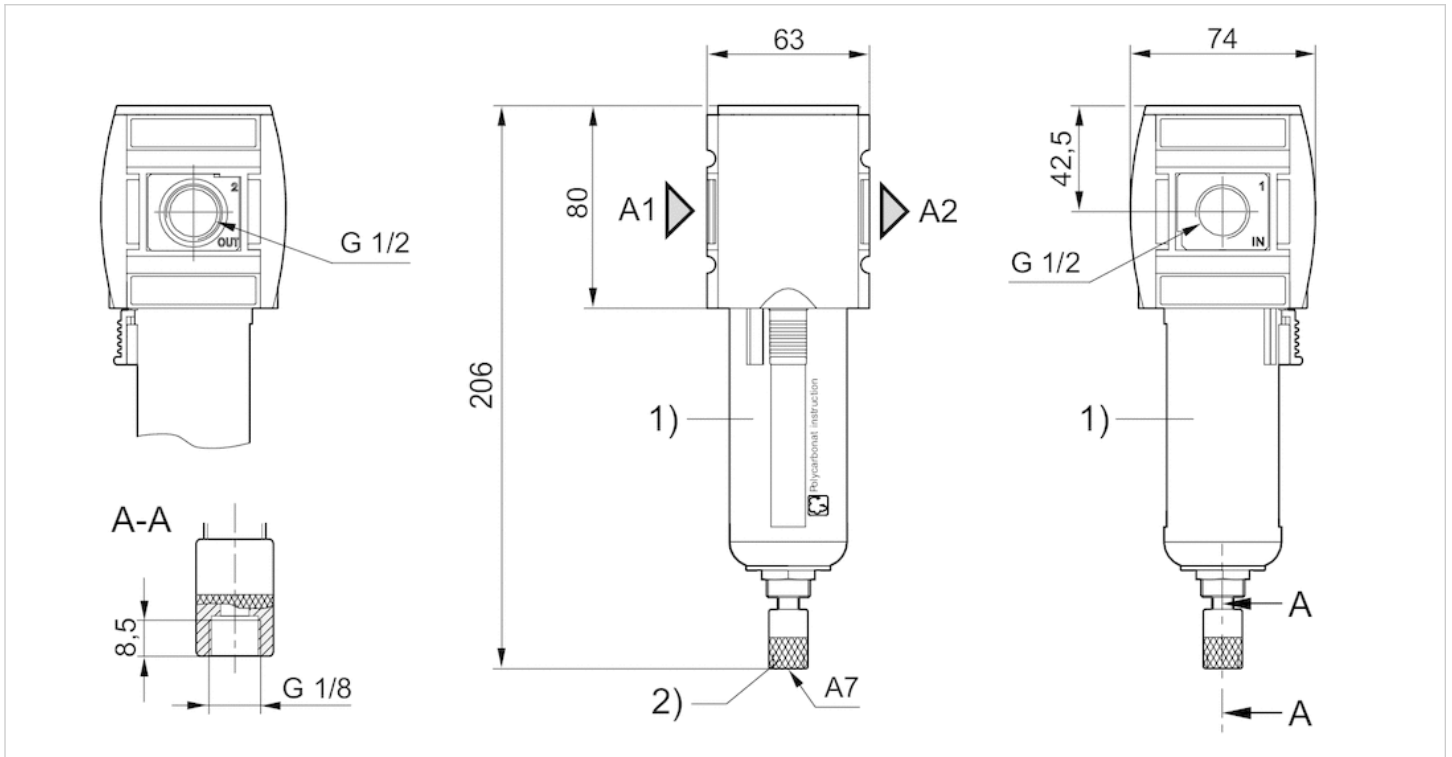
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Fully automatic condensate drain

Dimensions in mm, Fig. 3



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

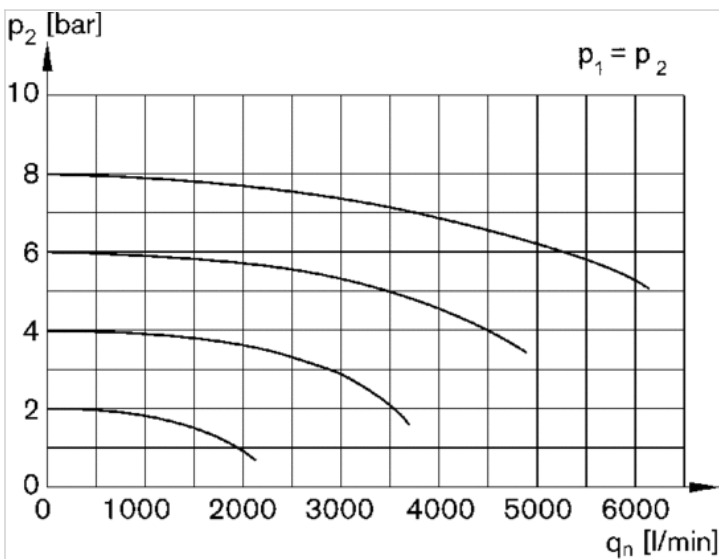
Dimensions in mm, Fig. 4



- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Fully automatic condensate drain

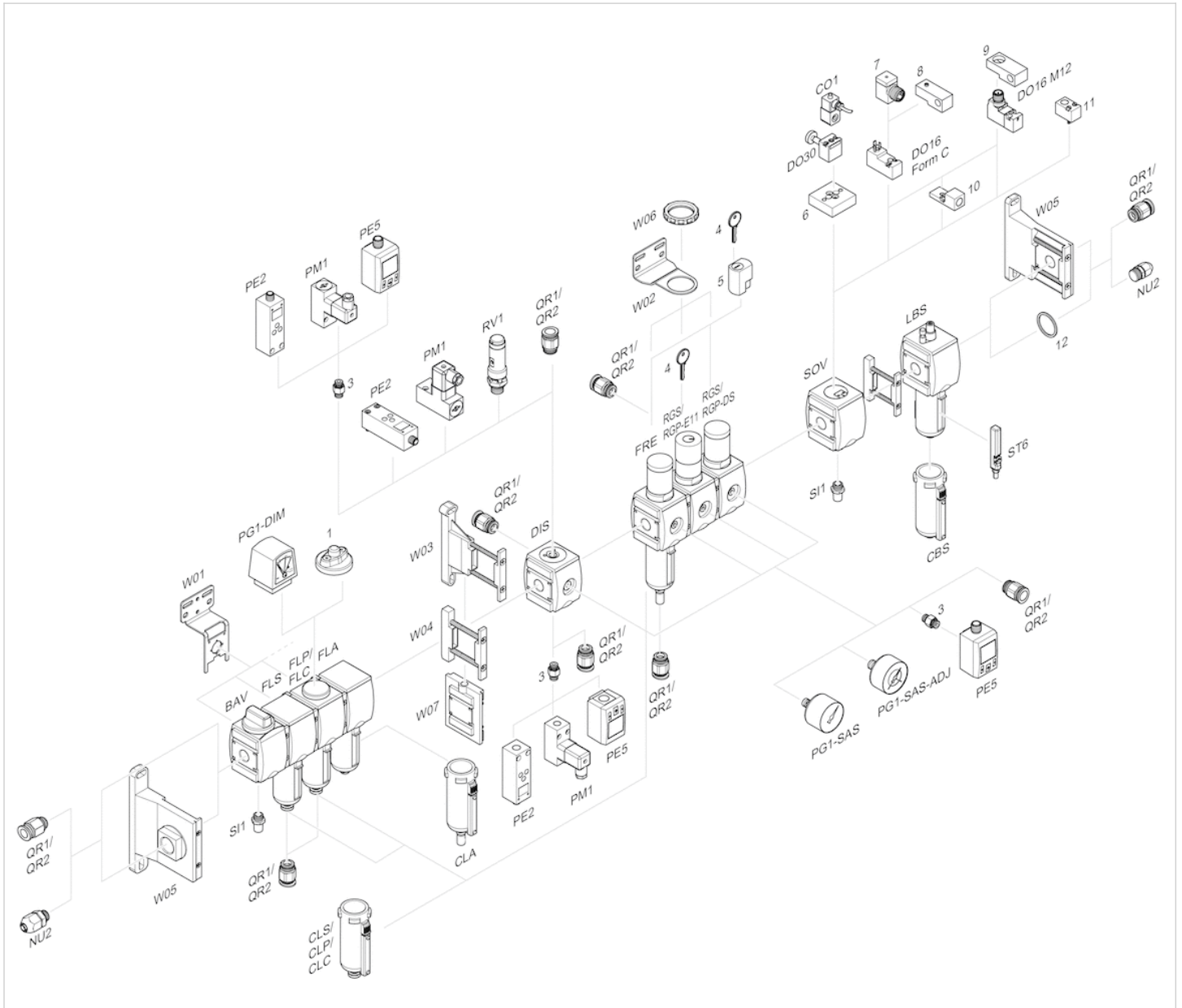
Diagrams

Flow rate characteristic



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

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

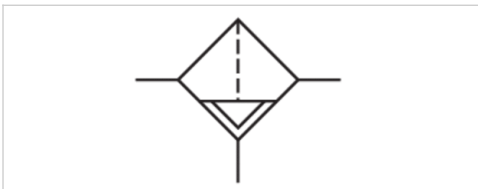
Pre-filter, Series AS3-FLP

- G 3/8 G 1/2

- filter porosity 0.3 µm



| | |
|-------------------------------|------------------------------------------|
| Version | Pre-filter, Can be assembled into blocks |
| Parts | Pre-filter |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| filter porosity | 0.3 µm |
| Condensate drain | See table below |
| Weight | See table below |



Technical data

| Part No. | Port | Flow Qn | Condensate drain |
|------------|-------|-----------|------------------------------------------|
| R412007018 | G 3/8 | 900 l/min | semi-automatic, open without pressure |
| R412007019 | G 3/8 | 900 l/min | fully automatic, open without pressure |
| R412007020 | G 3/8 | 900 l/min | fully automatic, closed without pressure |
| R412007024 | G 3/8 | 900 l/min | semi-automatic, open without pressure |
| R412007025 | G 3/8 | 900 l/min | fully automatic, open without pressure |
| R412007026 | G 3/8 | 900 l/min | fully automatic, closed without pressure |
| R412007027 | G 1/2 | 900 l/min | semi-automatic, open without pressure |
| R412007028 | G 1/2 | 900 l/min | fully automatic, open without pressure |
| R412007029 | G 1/2 | 900 l/min | fully automatic, closed without pressure |
| R412007033 | G 1/2 | 900 l/min | semi-automatic, open without pressure |
| R412007034 | G 1/2 | 900 l/min | fully automatic, open without pressure |
| R412007035 | G 1/2 | 900 l/min | fully automatic, closed without pressure |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007018 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |
| R412007019 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007020 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007024 | - | 0.778 kg |
| R412007025 | - | 0.831 kg |
| R412007026 | - | 0.831 kg |
| R412007027 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007028 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007029 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007033 | - | 0.757 kg |
| R412007034 | - | 0.81 kg |
| R412007035 | - | 0.81 kg |

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 0.1$ bar, Dust separation = 99.99%

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

Recommended pre-filtering 5 µm

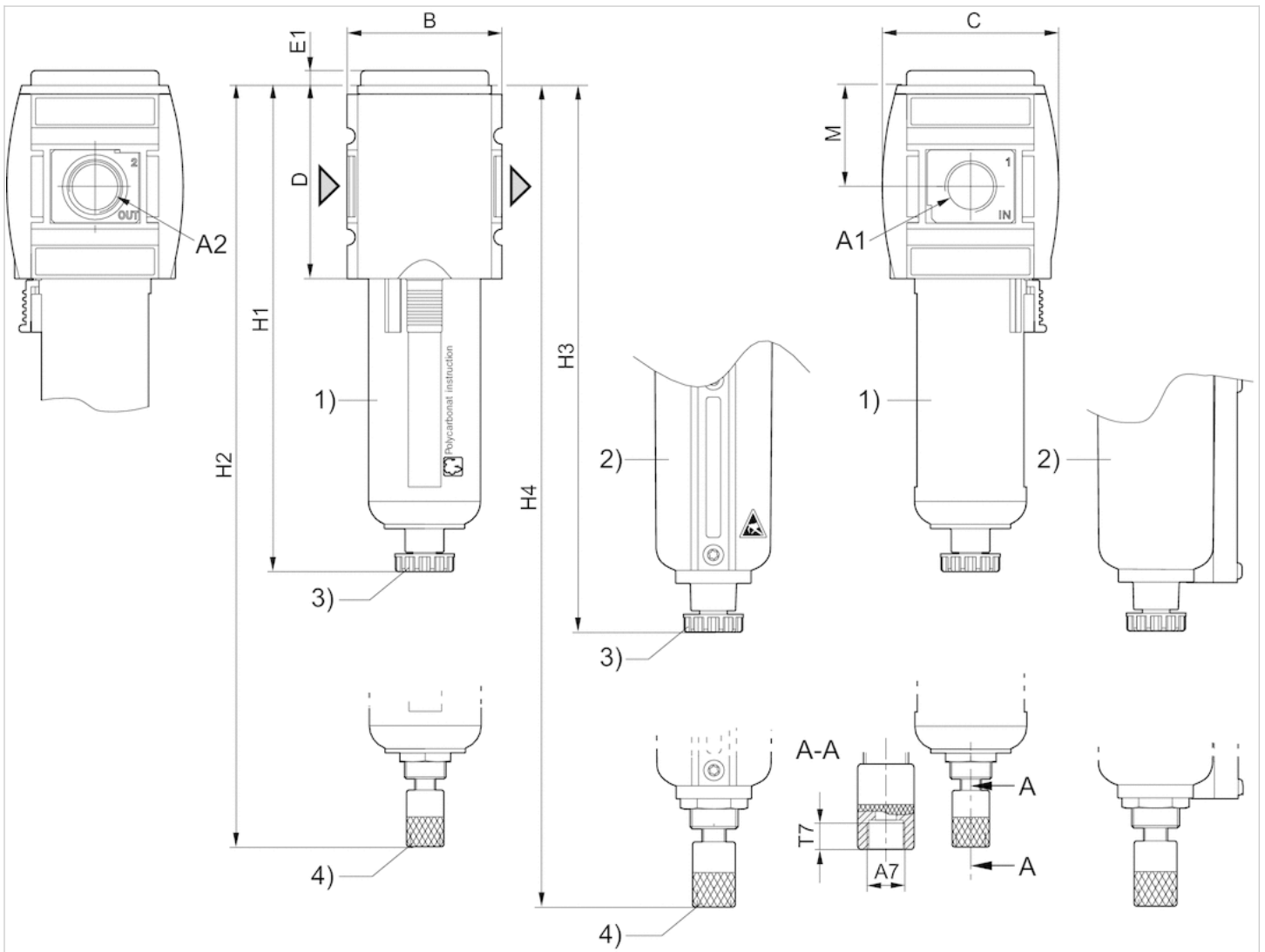
Max. achievable compressed air class acc. to ISO 8573-1:2010 2 : - : 3

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Impregnated paper |

Dimensions

Dimensions



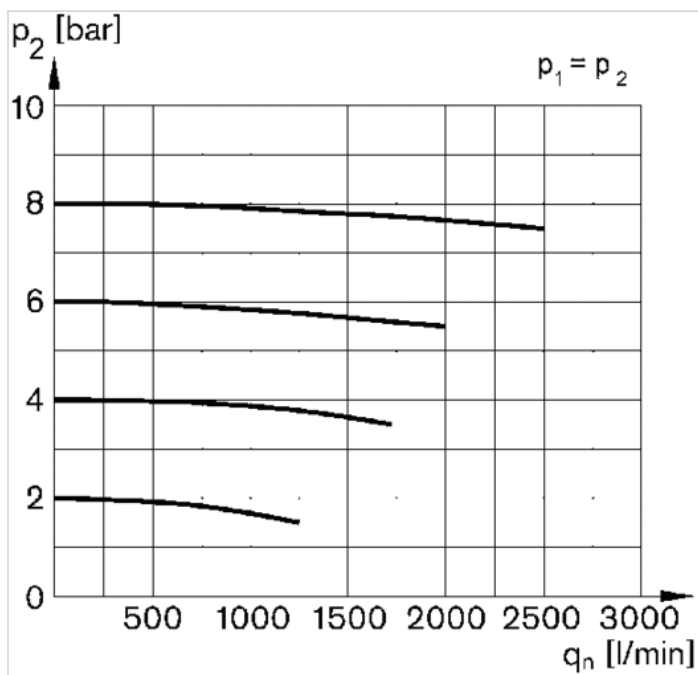
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

Dimensions in mm

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | H3 | H4 | M |
|-------|-------|-------|----|----|----|----|-------|-----|-------|-------|------|
| G 3/8 | G 3/8 | G 1/8 | 63 | 74 | 80 | 5 | 189.5 | 206 | 193.5 | 210.5 | 42.5 |
| G 1/2 | G 1/2 | G 1/8 | 63 | 74 | 80 | 5 | 189.5 | 206 | 193.5 | 210.5 | 42.5 |

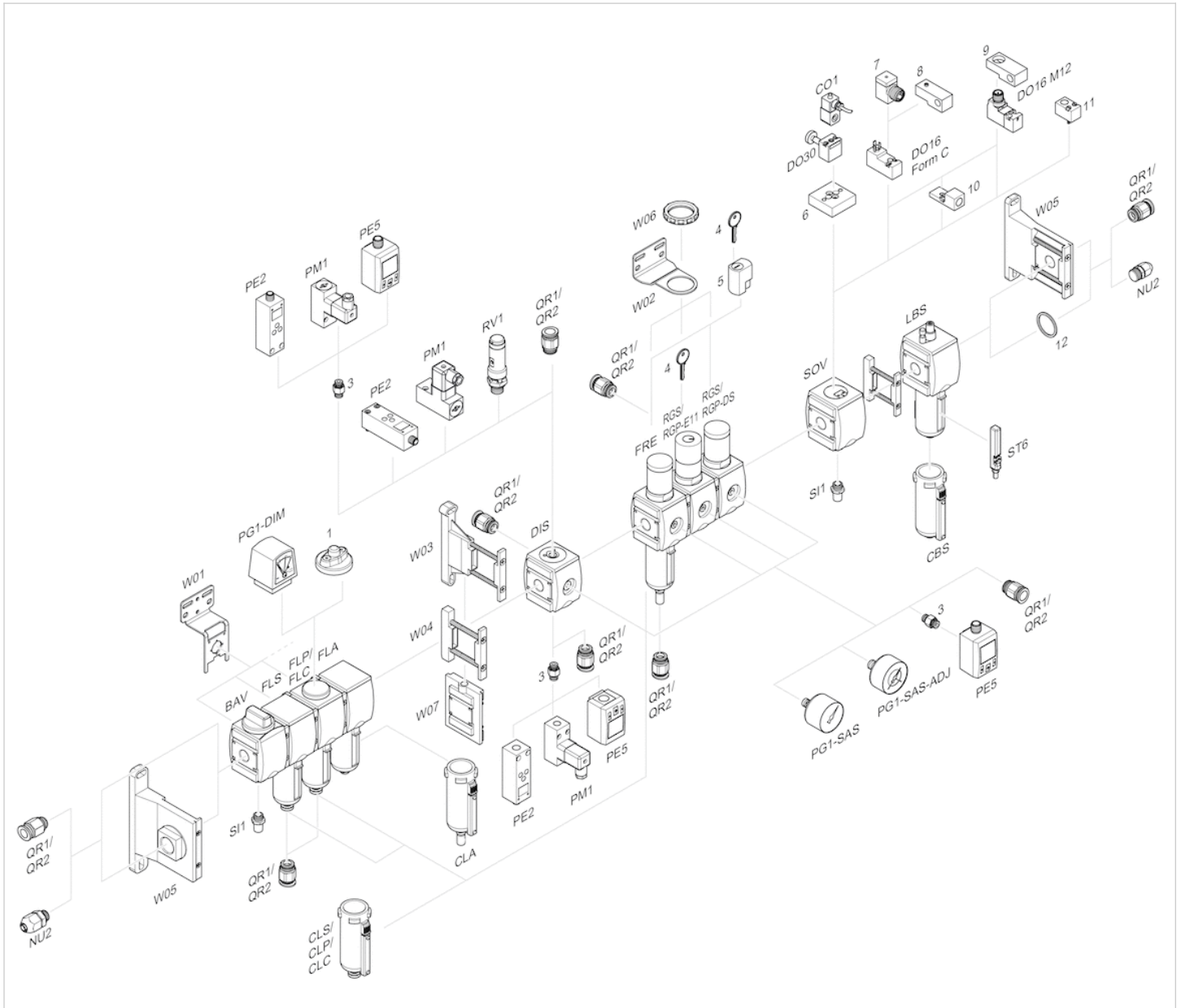
Diagrams

Flow rate characteristic



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

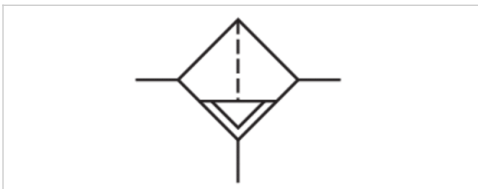
Microfilter, Series AS3-FLC

- G 3/8 G 1/2

- filter porosity 0.01 µm



| | |
|-------------------------------|-------------------------------------------|
| Version | Microfilter, Can be assembled into blocks |
| Parts | Microfilter |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| filter porosity | 0.01 µm |
| Condensate drain | See table below |
| Weight | See table below |



Technical data

| Part No. | Port | Flow Qn | Condensate drain |
|------------|-------|-----------|------------------------------------------|
| R412007036 | G 3/8 | 700 l/min | semi-automatic, open without pressure |
| R412007037 | G 3/8 | 700 l/min | fully automatic, open without pressure |
| R412007038 | G 3/8 | 700 l/min | fully automatic, closed without pressure |
| R412007042 | G 3/8 | 700 l/min | semi-automatic, open without pressure |
| R412007043 | G 3/8 | 700 l/min | fully automatic, open without pressure |
| R412007044 | G 3/8 | 700 l/min | fully automatic, closed without pressure |
| R412007045 | G 1/2 | 700 l/min | semi-automatic, open without pressure |
| R412007046 | G 1/2 | 700 l/min | fully automatic, open without pressure |
| R412007047 | G 1/2 | 700 l/min | fully automatic, closed without pressure |
| R412007051 | G 1/2 | 700 l/min | semi-automatic, open without pressure |
| R412007052 | G 1/2 | 700 l/min | fully automatic, open without pressure |
| R412007053 | G 1/2 | 700 l/min | fully automatic, closed without pressure |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007036 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |
| R412007037 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007038 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007042 | - | 0.78 kg |
| R412007043 | - | 0.833 kg |
| R412007044 | - | 0.833 kg |
| R412007045 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007046 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007047 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007051 | - | 0.759 kg |
| R412007052 | - | 0.812 kg |
| R412007053 | - | 0.733 kg |

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 0.1$ bar

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

Recommended pre-filtering 0.3 µm

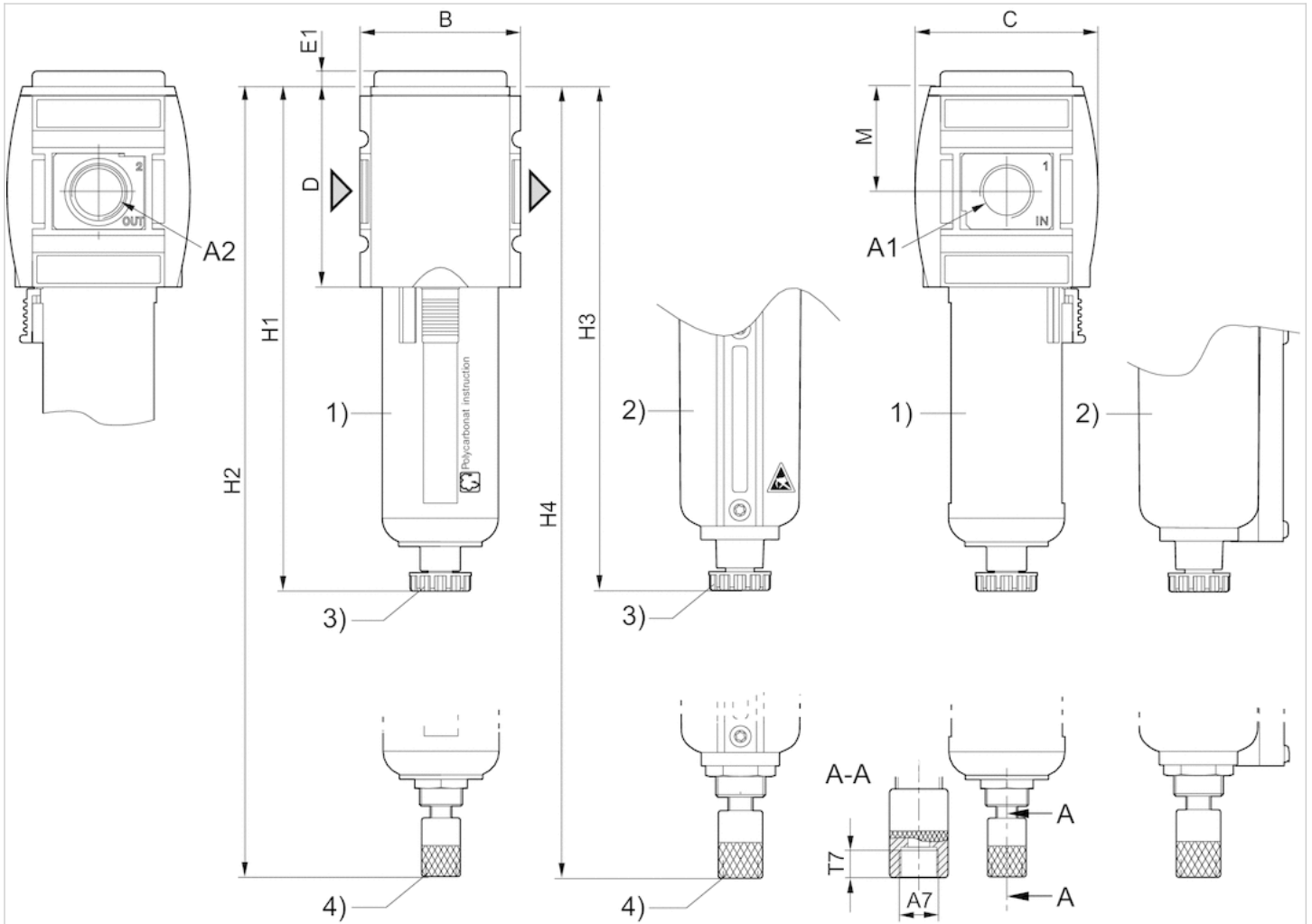
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Borosilicate glass fiber |

Dimensions

Dimensions



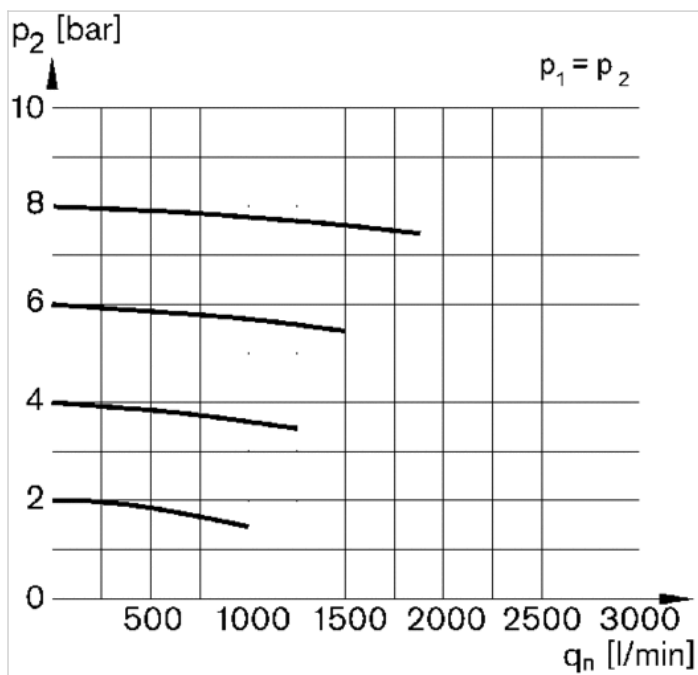
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

Dimensions in mm

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | H3 | H4 | M | T7 |
|-------|-------|-------|----|----|----|----|-------|-----|-------|-------|------|-----|
| G 3/8 | G 3/8 | G 1/8 | 63 | 74 | 80 | 5 | 189.5 | 206 | 193.5 | 210.5 | 42.5 | 8.5 |
| G 1/2 | G 1/2 | G 1/8 | 63 | 74 | 80 | 5 | 189.5 | 206 | 193.5 | 210.5 | 42.5 | 8.5 |

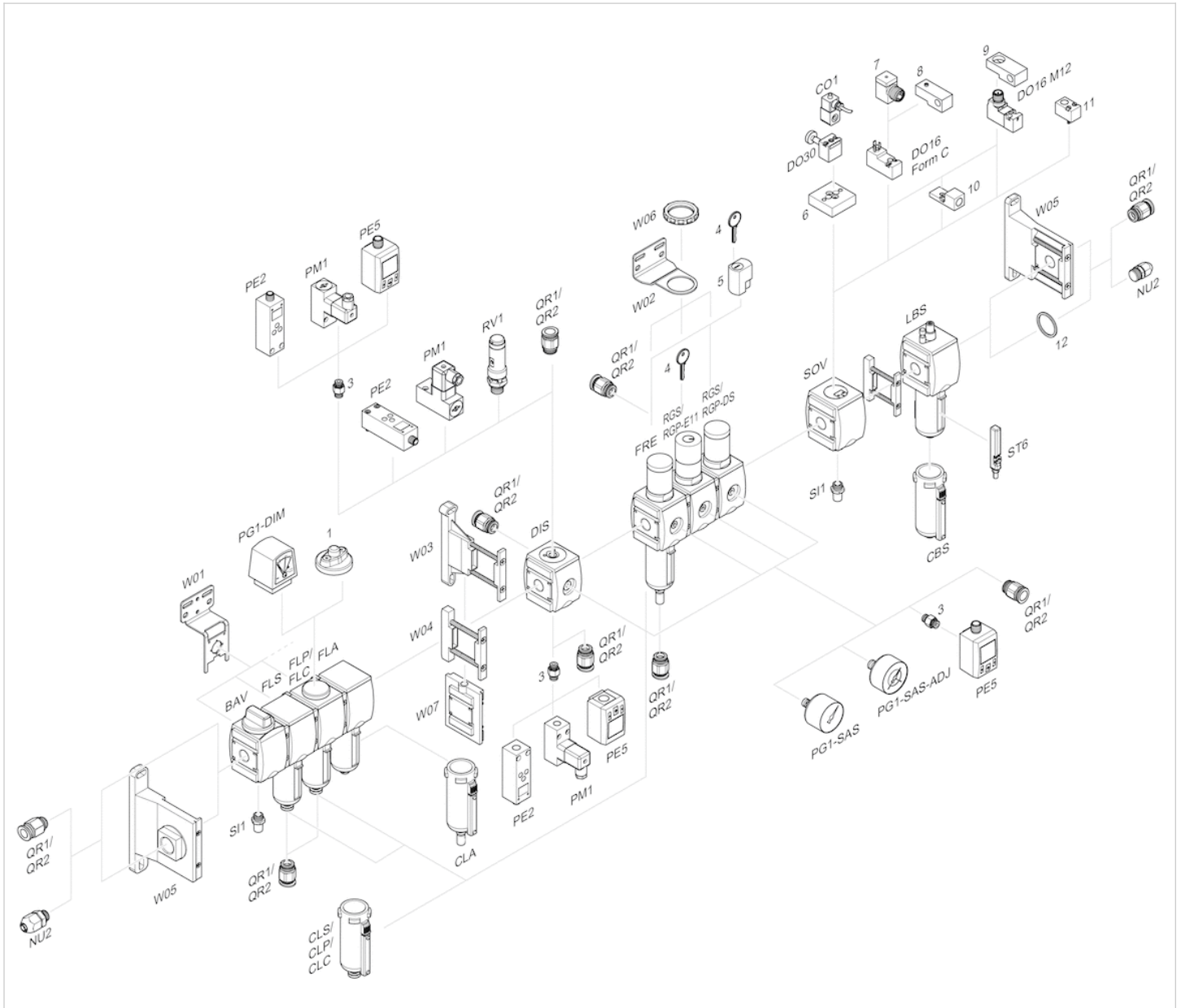
Diagrams

Flow rate characteristic



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

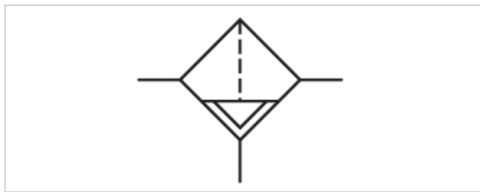
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Microfilter, Series AS3-FLC

- G 3/8 G 1/2
- filter porosity 0.01 µm
- contamination display integrated



| | |
|-------------------------------|-------------------------------------------|
| Version | Microfilter, Can be assembled into blocks |
| Parts | Microfilter |
| Mounting orientation | vertical |
| Working pressure min./max. | 1.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| filter porosity | 0.01 µm |
| Condensate drain | See table below |
| contamination display | integrated |
| Weight | See table below |

Technical data

| Part No. | Port | Flow Qn | Condensate drain |
|------------|-------|-----------|------------------------------------------|
| R412007054 | G 3/8 | 700 l/min | semi-automatic, open without pressure |
| R412007055 | G 3/8 | 700 l/min | fully automatic, open without pressure |
| R412007056 | G 3/8 | 700 l/min | fully automatic, closed without pressure |
| R412007060 | G 3/8 | 700 l/min | semi-automatic, open without pressure |
| R412007061 | G 3/8 | 700 l/min | fully automatic, open without pressure |
| R412007062 | G 3/8 | 700 l/min | fully automatic, closed without pressure |
| R412007063 | G 1/2 | 700 l/min | semi-automatic, open without pressure |
| R412007064 | G 1/2 | 700 l/min | fully automatic, open without pressure |
| R412007065 | G 1/2 | 700 l/min | fully automatic, closed without pressure |
| R412007069 | G 1/2 | 700 l/min | semi-automatic, open without pressure |
| R412007070 | G 1/2 | 700 l/min | fully automatic, open without pressure |
| R412007071 | G 1/2 | 700 l/min | fully automatic, closed without pressure |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007054 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |
| R412007055 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007056 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007060 | - | 0.783 kg |
| R412007061 | - | 0.757 kg |
| R412007062 | - | 0.757 kg |

| Part No. | Version | Weight |
|------------|----------------------------------------------------|----------|
| R412007063 | reservoir, polycarbonate, with PA protective guard | 0.361 kg |
| R412007064 | reservoir, polycarbonate, with PA protective guard | 0.41 kg |
| R412007065 | reservoir, polycarbonate, with PA protective guard | 0.762 kg |
| R412007069 | - | 0.762 kg |
| R412007070 | - | 0.736 kg |
| R412007071 | - | 0.736 kg |

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 0.1$ bar

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

Recommended pre-filtering 0.3 µm

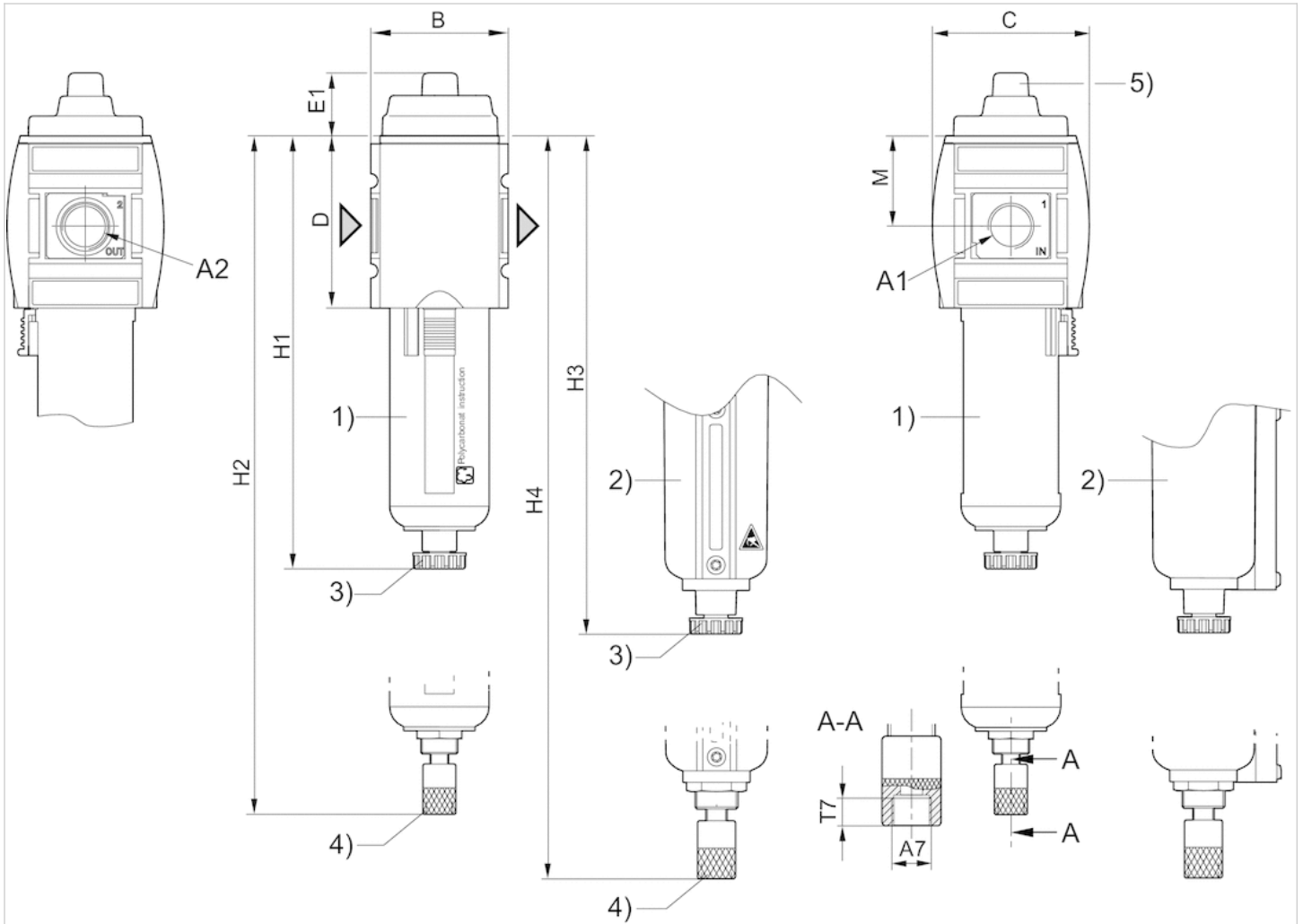
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Borosilicate glass fiber |

Dimensions

Dimensions



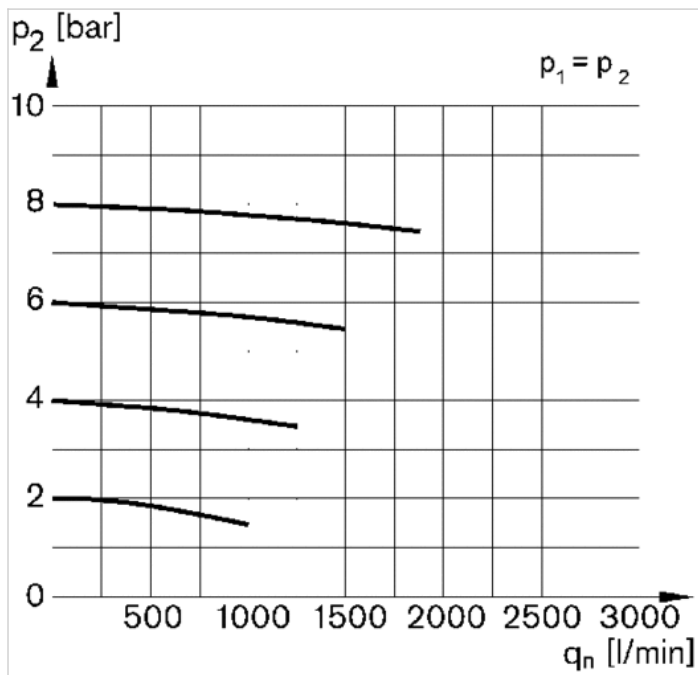
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain
- 5) contamination display

Dimensions in mm

| A1 | A2 | A7 | B | C | D | E1 | H1 | H2 | H3 | H4 | M | T7 |
|-------|-------|-------|----|----|----|------|-------|-----|-------|-------|------|-----|
| G 3/8 | G 3/8 | G 1/8 | 63 | 74 | 80 | 23.7 | 189.5 | 206 | 193.5 | 210.5 | 42.5 | 8.5 |
| G 1/2 | G 1/2 | G 1/8 | 63 | 74 | 80 | 23.7 | 189.5 | 206 | 193.5 | 210.5 | 42.5 | 8.5 |

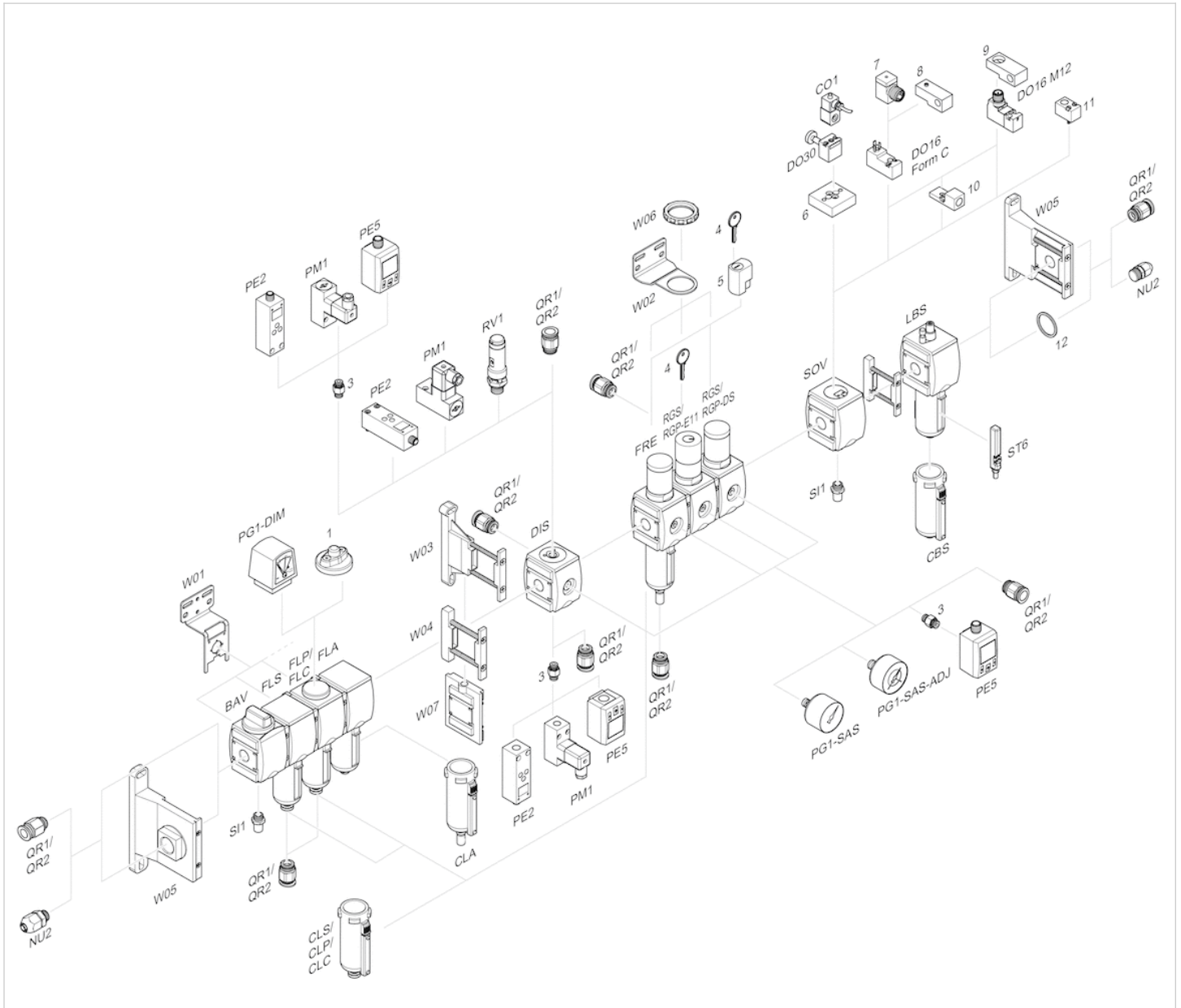
Diagrams

Flow rate characteristic



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

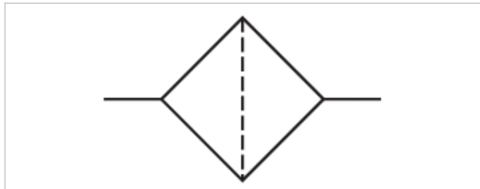
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Active carbon filter, Series AS3-FLA

- G 3/8 G 1/2



| | |
|-------------------------------|----------------------------------------------------|
| Version | Active carbon filter, Can be assembled into blocks |
| Parts | Active carbon filter |
| Mounting orientation | vertical |
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Filter reservoir volume | 49 cm ³ |
| Filter element | exchangeable |
| Condensate drain | without |
| Weight | See table below |

Technical data

| Part No. | Port | Flow Qn | Version | Weight |
|-----------|-------|------------|----------------------------------------------------|----------|
| R41200702 | G 3/8 | 1000 l/min | reservoir, polycarbonate, with PA protective guard | 0.375 kg |
| R41200704 | G 3/8 | 1000 l/min | - | 0.751 kg |
| R41200705 | G 1/2 | 1000 l/min | reservoir, polycarbonate, with PA protective guard | 0.375 kg |
| R41200707 | G 1/2 | 1000 l/min | - | 0.73 kg |

Nominal flow Qn with secondary pressure p₂ = 6 bar at Δp = 0.1 bar

Technical information

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

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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

Recommended pre-filtering 0.01 μm

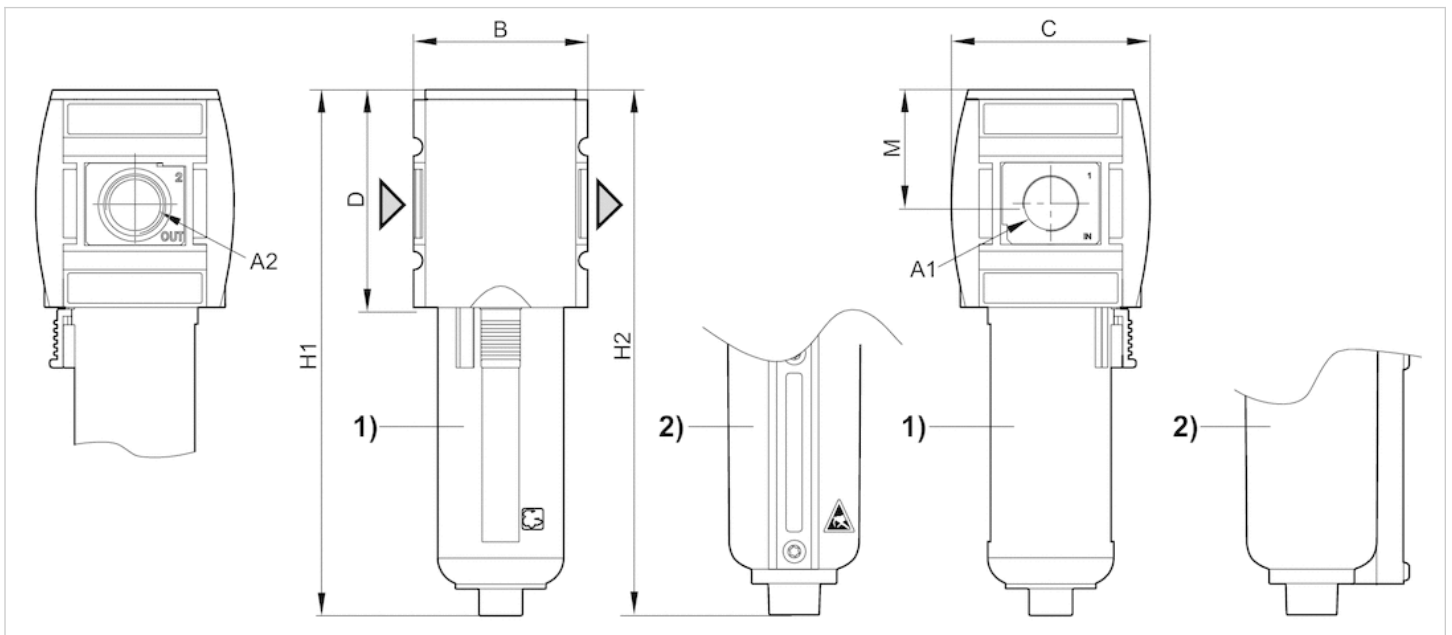
Max. achievable compressed air class acc. to ISO 8573-1:2010 - : - : 1

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Filter insert | Active carbon |

Dimensions

Dimensions

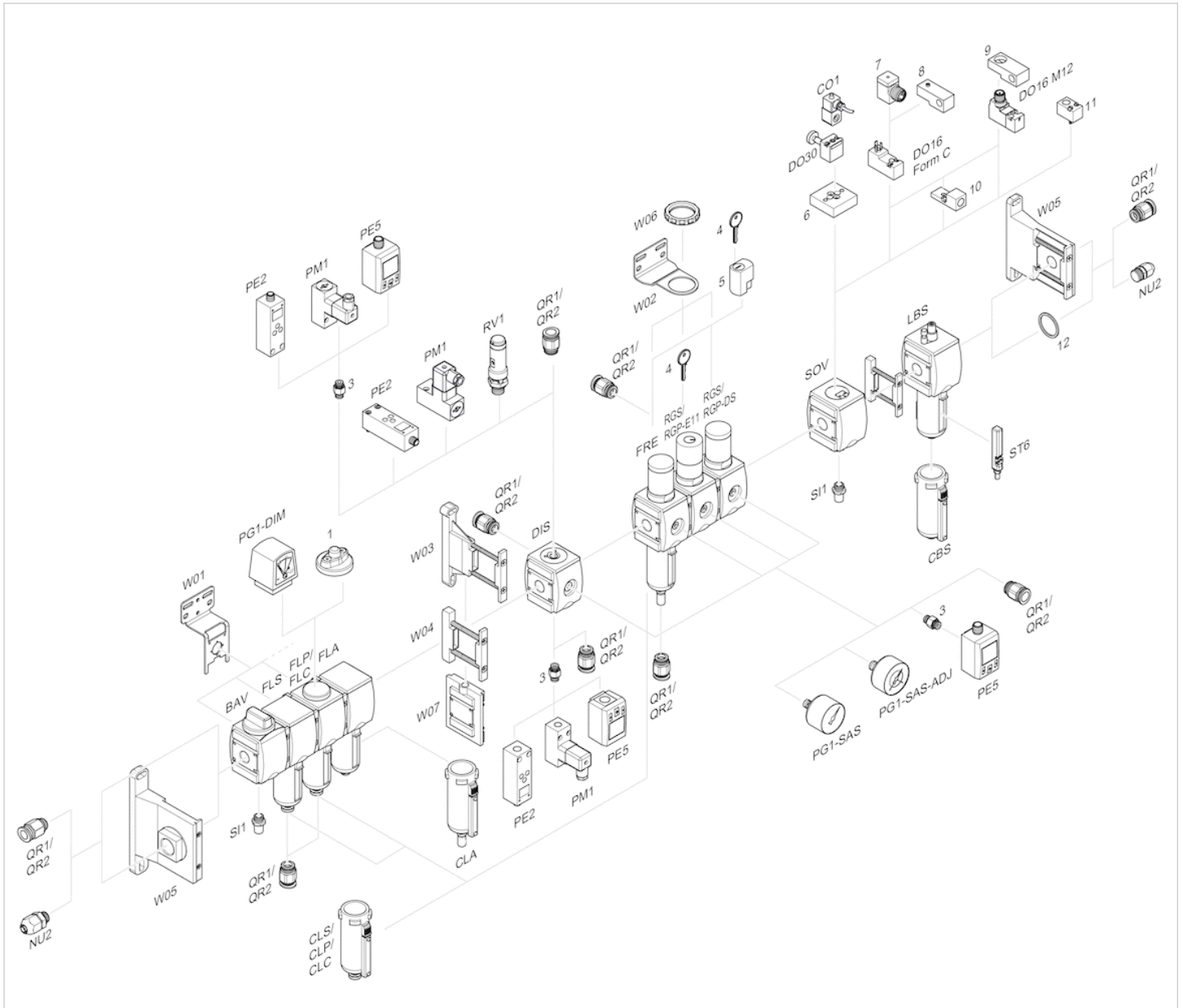


- A1 = input
- A2 = output
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Dimensions in mm

| A1 | A2 | B | C | D | H1 | H2 | M |
|-------|-------|----|----|----|-----|-----|------|
| G 3/8 | G 3/8 | 63 | 74 | 80 | 183 | 187 | 42.5 |
| G 1/2 | G 1/2 | 63 | 74 | 80 | 183 | 187 | 42.5 |

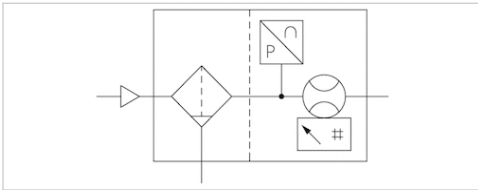
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Flow sensor, IO-Link, Series AF2

- 2 analog outputs, 2 switch outputs, 1 frequency output, 1 pulse output, IO-Link, With mounting
- Qn min. 8 l/min
- Qn max. 2445 l/min
- Electrical connection Plug, M12x1, 5-pin



Certificates

Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium

filter porosity

Display

Flow display unit

Pressure display unit

Temperature display unit

DC operating voltage min.

DC operating voltage max.

Max. power consumption *)

Response time

Protection class

Short circuit resistance

Shock resistance max.

Vibration resistance

Reproducibility

Weight

*)

CE declaration of conformity RoHS UL
(Underwriters Laboratories)

0 ... 16 bar

-20 ... 60 °C

-20 ... 60 °C

Compressed air Argon Nitrogen Helium
Carbon dioxide

5 µm

OLED

l/sec, l/min, m³/min, m³/h, ft³/s, m³/min

bar, psi

°C, °F

17 V DC

30 V DC

175 mA

10 ms

IP65, IP67 according to IEC 60529

short circuit resistant

30 g, 11 ms

1 g (10 - 2000 Hz) IEC 60068 - 2-6

± 1.5% of the measured value

1.97 kg

Current consumption without load

Technical data

| Part No. | for series | Compressed air connection | Nominal flow Qn | Nominal flow Qn | Nominal flow Qn |
|------------|------------|---------------------------|-----------------|-----------------|-----------------|
| | | | Min., standard | Max., standard | Min., extended |
| R412026835 | AS3 | G 1/2 | 8 l/min | 1630 l/min | 1630 l/min |

| Part No. | Nominal flow Qn |
|------------|-----------------|
| | Max., extended |
| R412026835 | 2445 l/min |

Standard measurement range for flow measurement: compressed air 0.5 ... 100 m/s, extended measurement range: compressed air >100 ... 150 m/s, in accordance with ISO 8778, Flow display range: 0 ... 4890 l/min

Technical information

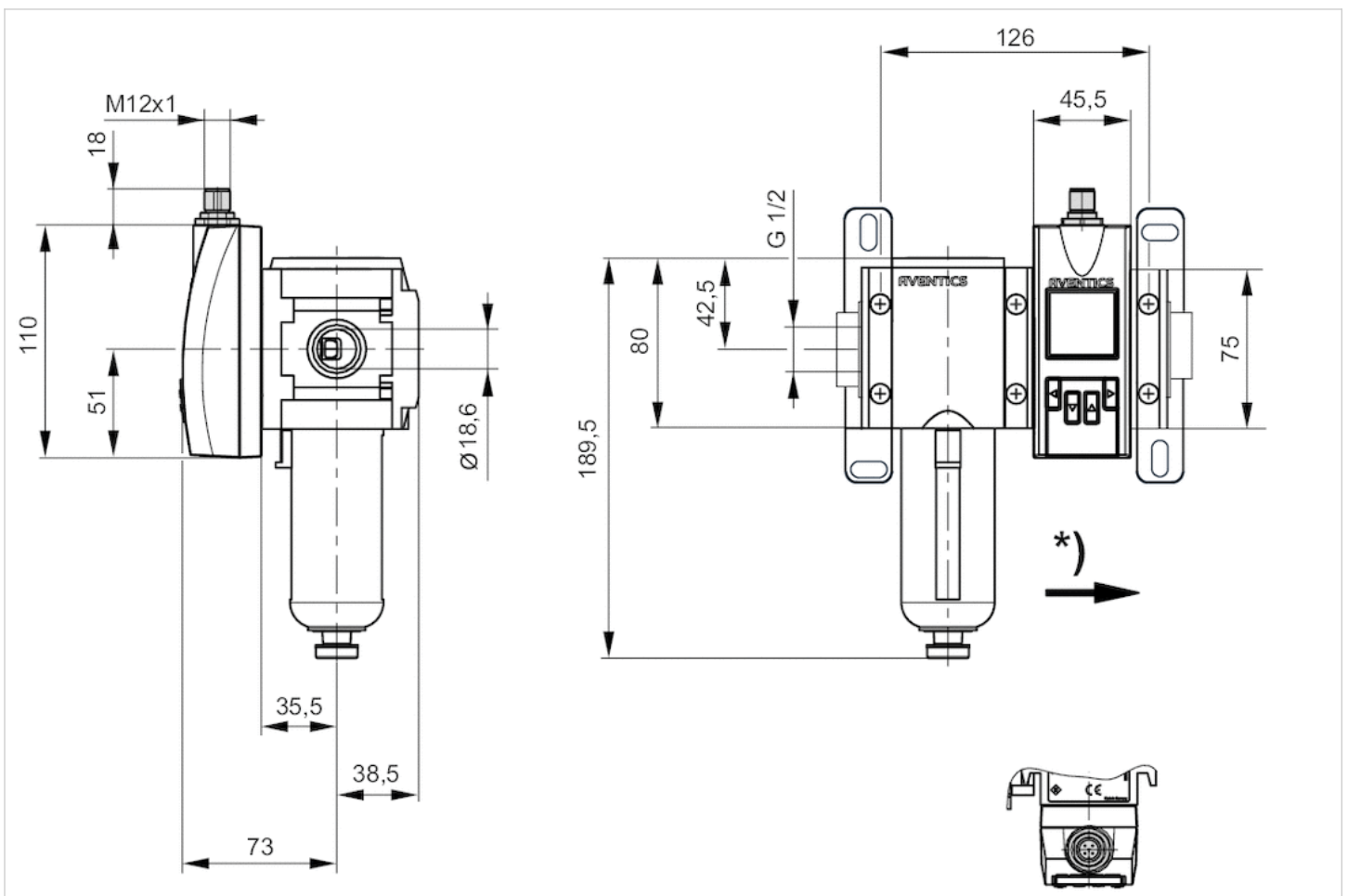
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
 The device is designed to be installed in AS series air preparation units or to be fitted as a stand-alone device using a W05 block assembly kit.
 Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.
 Precision- Standard measurement range: ±3% of measured value, + 0.3% of final value- Extended measurement range: ±8% of measured value, + 1% of final value
 The IO-Link device description (IODD) for the AF2 flow rate sensor is available for download in the Media Center.

Technical information

| | |
|----------|--------------------------|
| Material | |
| Housing | Polyamide, Polycarbonate |
| Seals | Fluorocaoutchouc |

Dimensions

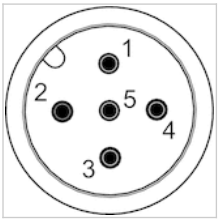
Dimensions in mm



* Flow direction

Pin assignments

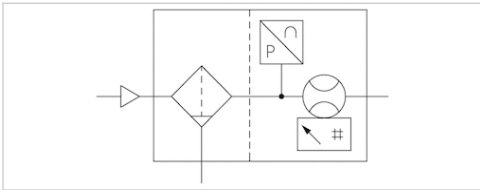
Pin assignments, M12x1, 5-pin



| Pin | 1 | 2 | 3 |
|------------|------------------------------|---------------------------|----------|
| Allocation | L+ | QA (output 4 ... 20 mA) | m = mass |
| | 4 | 5 | |
| | C/Q1 (IO-Link/switch output) | Analog output 4 ... 20 mA | |

Flow sensor, Ethernet, Series AF2

- Ethernet, With mounting
- Qn min. 8 l/min
- Qn max. 2445 l/min
- Electrical connection Plug, M12x1, 8-pin



Certificates

Working pressure min./max.
Ambient temperature min./max.
Medium temperature min./max.
Medium

filter porosity
Display
Flow display unit
Pressure display unit
Temperature display unit
DC operating voltage max.
Power consumption max.
Response time
Protection class
Shock resistance max.
Vibration resistance
Reproducibility
Weight

CE declaration of conformity RoHS UL
(Underwriters Laboratories)
0 ... 16 bar
-20 ... 60 °C
-20 ... 60 °C
Compressed air Argon Nitrogen Helium
Carbon dioxide
5 µm
OLED
l/sec, l/min, m³/min, m³/h, ft³/s, m³/min
bar, psi
°C, °F
45 V DC
12 W
10 ms
IP65, IP67 according to IEC 60529
30 g, 11 ms
1 g (10 - 2000 Hz) IEC 60068 - 2-6
± 1.5% of the measured value
1.97 kg

Technical data

| Part No. | for series | Compressed air connection | Nominal flow Qn | |
|------------|------------|---------------------------|-----------------|----------------|
| | | | Min., standard | Max., standard |
| R412026838 | AS3 | G 1/2 | 8 l/min | 1630 l/min |

| Part No. | Nominal flow Qn |
|------------|-----------------|
| | Max., extended |
| R412026838 | 2445 l/min |

Standard measurement range for flow measurement: compressed air 0.5 ... 100 m/s, extended measurement range: compressed air >100 ... 150 m/s, in accordance with ISO 8778, Flow display range: 0 ... 4890 l/min

Technical information

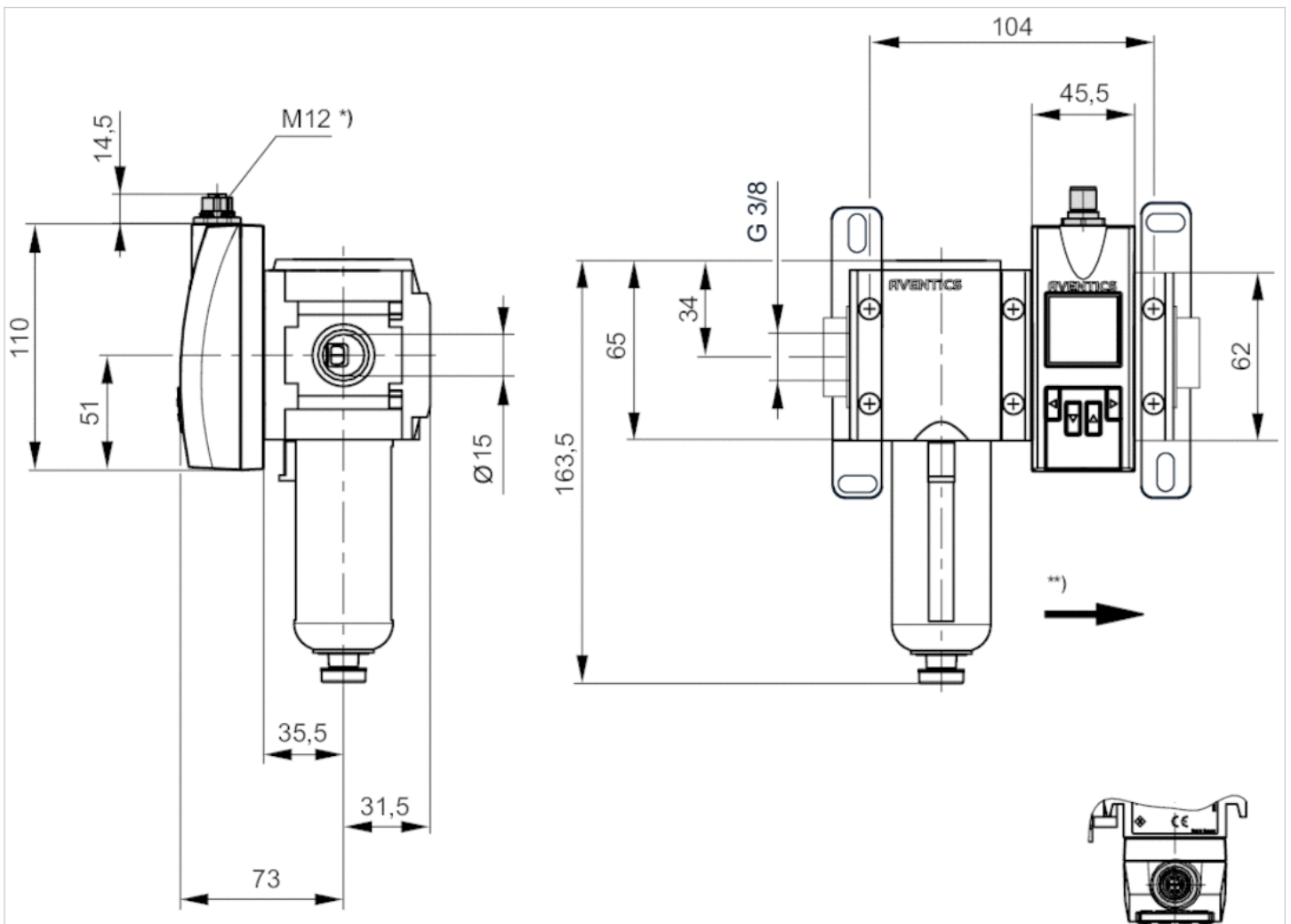
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
The device is designed to be installed in AS series air preparation units or to be fitted as a stand-alone device using a W05 block assembly kit.
Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.
Precision- Standard measurement range: ±3% of measured value, + 0.3% of final value- Extended measurement range: ±8% of measured value, + 1% of final value

Technical information

| | |
|----------|--------------------------|
| Material | |
| Housing | Polyamide, Polycarbonate |
| Seals | Fluorocaoutchouc |

Dimensions

Dimensions in mm

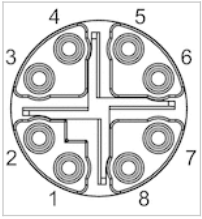


* Internal thread

** Flow direction

Pin assignments

Pin assignments, M12, X-coded

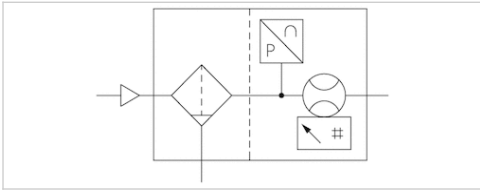


| Pin | 1 | 2 | 3 | 4 | 7 | 8 | 5 |
|----------|-------------|-------------|-------------|-------------|---------|------|---------|
| Color | WH / OG | OG | WH / GN | GN | WH / BU | BU | WH / BN |
| Function | TX(+) + POE | TX(-) + POE | RX(+) - POE | RX(-) - POE | POE+ | POE+ | POE- |

| | | | | | | | |
|--|--|--|--|--|--|--|------|
| | | | | | | | 6 |
| | | | | | | | BN |
| | | | | | | | POE- |

Flow sensor, IO-Link, Series AF2

- 2 analog outputs, 2 switch outputs, 1 frequency output, 1 pulse output, IO-Link, Without mounting
- Qn min. 8 l/min
- Qn max. 2445 l/min
- Electrical connection Plug, M12x1, 5-pin



Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

filter porosity

Display

Flow display unit

Pressure display unit

Temperature display unit

DC operating voltage min.

DC operating voltage max.

Max. power consumption *)

Response time

Protection class

Short circuit resistance

Shock resistance max.

Vibration resistance

Reproducibility

Weight

*)

CE declaration of conformity RoHS UL
(Underwriters Laboratories)

0 ... 16 bar

-20 ... 60 °C

-20 ... 60 °C

Compressed air Argon Nitrogen Helium
Carbon dioxide

5 µm

OLED

l/sec, l/min, m³/min, m³/h, ft³/s, m³/min

bar, psi

°C, °F

17 V DC

30 V DC

175 mA

10 ms

IP65, IP67 according to IEC 60529

short circuit resistant

30 g, 11 ms

1 g (10 - 2000 Hz) IEC 60068 - 2-6

± 1.5% of the measured value

1.25 kg

Current consumption without load

Technical data

| Part No. | for series | Compressed air connection | Nominal flow Qn | Nominal flow Qn | Nominal flow Qn |
|------------|------------|---------------------------|-----------------|-----------------|-----------------|
| | | | Min., standard | Max., standard | Min., extended |
| R412027177 | AS3 | G 1/2 | 8 l/min | 1630 l/min | 1630 l/min |

| Part No. | Nominal flow Qn |
|------------|-----------------|
| | Max., extended |
| R412027177 | 2445 l/min |

Standard measurement range for flow measurement: compressed air 0.5 ... 100 m/s, extended measurement range: compressed air >100 ... 150 m/s, in accordance with ISO 8778, Flow display range: 0 ... 4890 l/min

Technical information

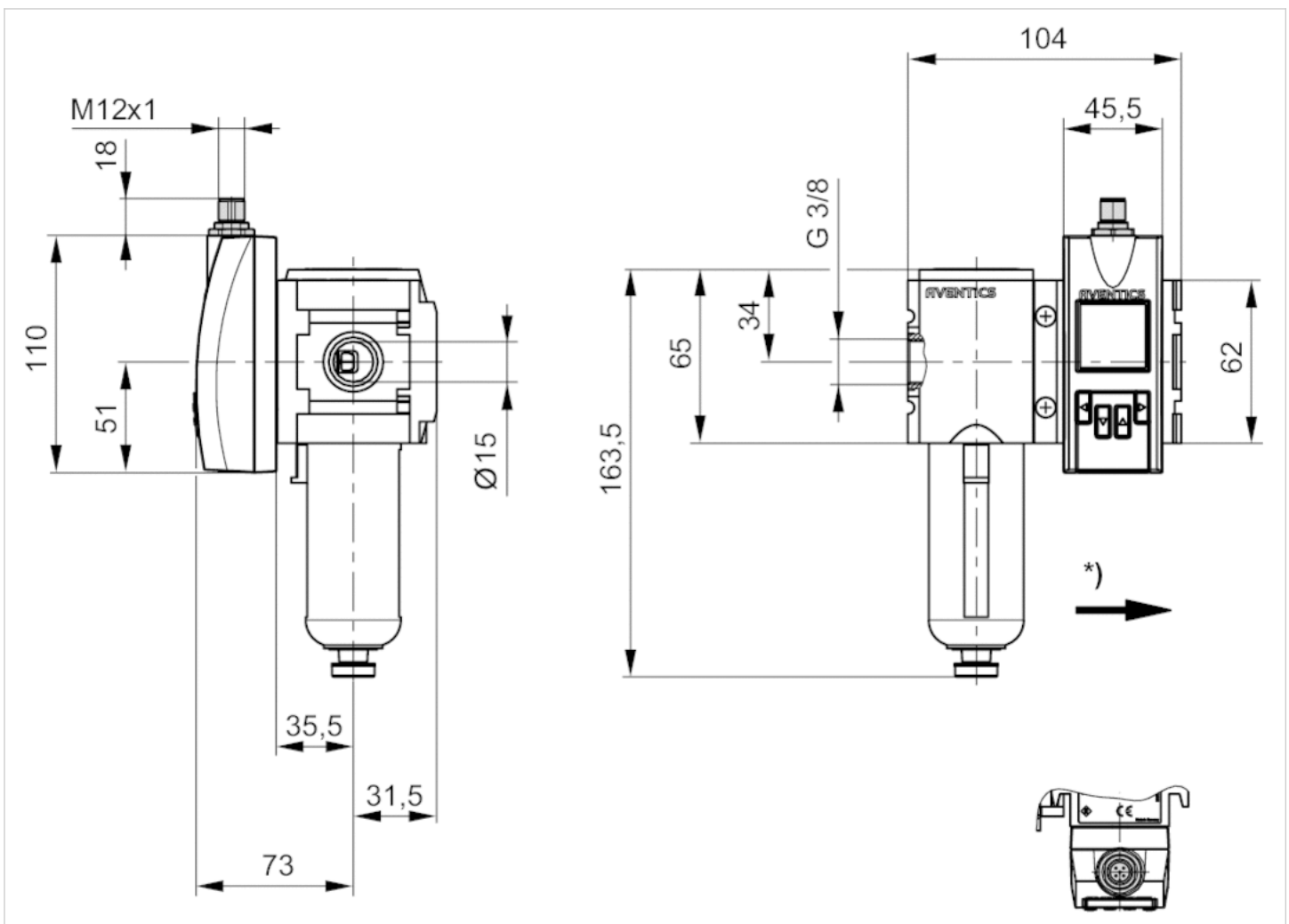
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
 The device is designed to be installed in AS series air preparation units or to be fitted as a stand-alone device using a W05 block assembly kit.
 Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.
 Precision- Standard measurement range: ±3% of measured value, + 0.3% of final value- Extended measurement range: ±8% of measured value, + 1% of final value
 The IO-Link device description (IODD) for the AF2 flow rate sensor is available for download in the Media Center.

Technical information

| | |
|----------|--------------------------|
| Material | |
| Housing | Polyamide, Polycarbonate |
| Seals | Fluorocaoutchouc |

Dimensions

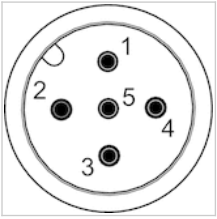
Dimensions in mm



* Flow direction

Pin assignments

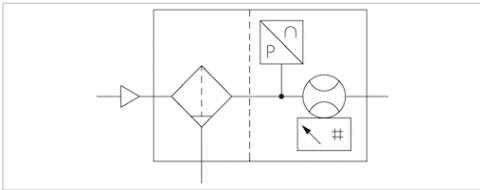
Pin assignments, M12x1, 5-pin



| Pin | 1 | 2 | 3 |
|------------|------------------------------|---------------------------|----------|
| Allocation | L+ | QA (output 4 ... 20 mA) | m = mass |
| | 4 | 5 | |
| | C/Q1 (IO-Link/switch output) | Analog output 4 ... 20 mA | |

Flow sensor, Ethernet, Series AF2

- Ethernet, Without mounting
- Qn min. 8 l/min
- Qn max. 2445 l/min
- Electrical connection Plug, M12x1, 8-pin



Certificates

| | |
|-------------------------------|-----------------------------------------------------|
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | -20 ... 60 °C |
| Medium temperature min./max. | -20 ... 60 °C |
| Medium | Compressed air Argon Nitrogen Helium Carbon dioxide |
| filter porosity | 5 µm |
| Display | OLED |
| Flow display unit | l/sec, l/min, m³/min, m³/h, ft³/s, m³/min |
| Pressure display unit | bar, psi |
| Temperature display unit | °C, °F |
| DC operating voltage max. | 45 V DC |
| Power consumption max. | 12 W |
| Response time | 10 ms |
| Protection class | IP65, IP67 according to IEC 60529 |
| Shock resistance max. | 30 g, 11 ms |
| Vibration resistance | 1 g (10 - 2000 Hz) IEC 60068 - 2-6 |
| Reproducibility | ± 1.5% of the measured value |
| Weight | 1.25 kg |

Technical data

| Part No. | for series | Compressed air connection | Nominal flow Qn | |
|------------|------------|---------------------------|-----------------|----------------|
| | | | Min., standard | Max., standard |
| R412027180 | AS3 | G 1/2 | 8 l/min | 1630 l/min |

| Part No. | Nominal flow Qn |
|------------|-----------------|
| | Max., extended |
| R412027180 | 2445 l/min |

Standard measurement range for flow measurement: compressed air 0.5 ... 100 m/s, extended measurement range: compressed air >100 ... 150 m/s, in accordance with ISO 8778, Flow display range: 0 ... 4890 l/min

Technical information

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

The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

The device is designed to be installed in AS series air preparation units or to be fitted as a stand-alone device using a W05 block assembly kit.

Liquid oil or water must be separated via prefiltering. If it is not separated sufficiently, drifting may result.

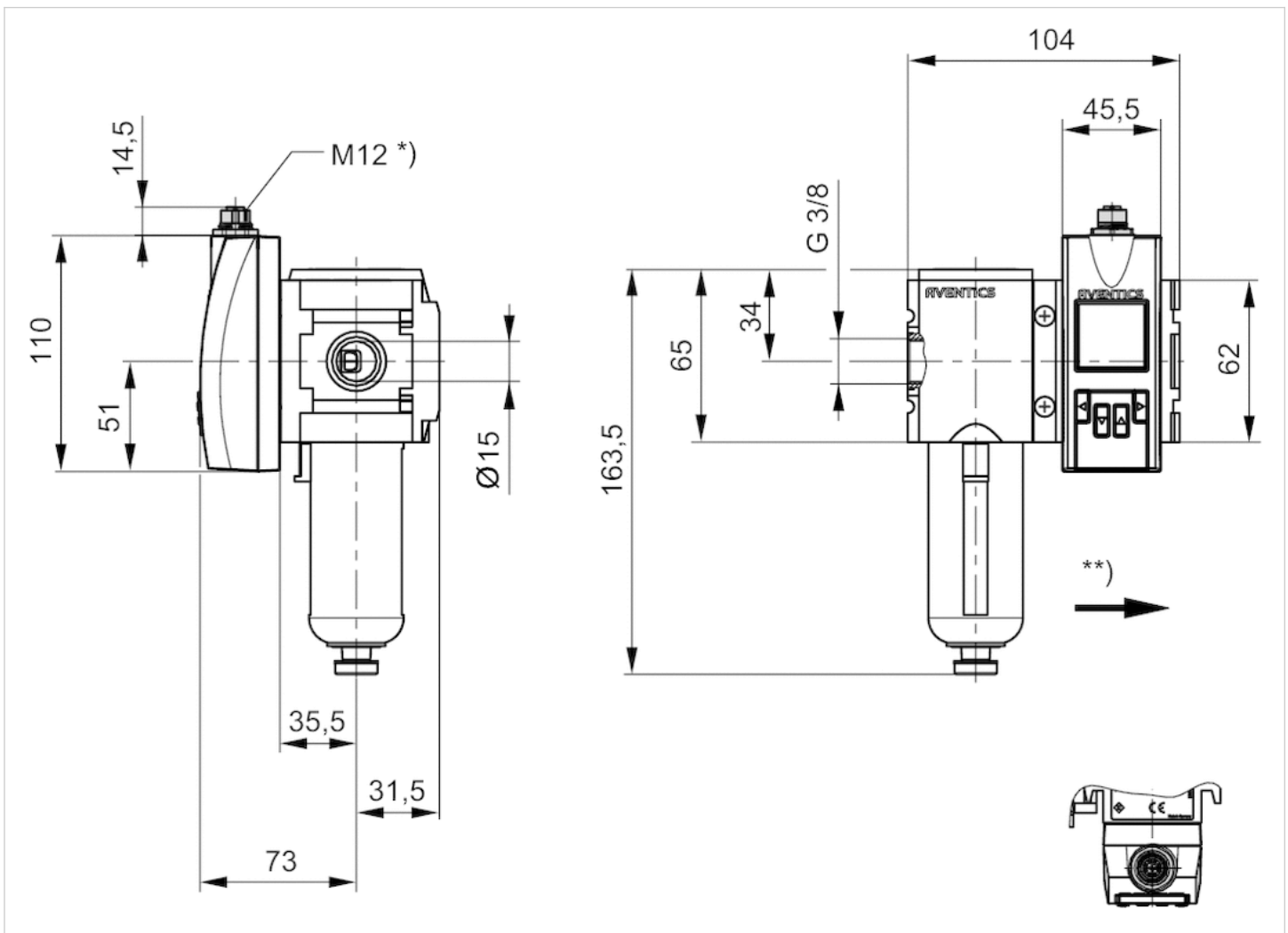
Precision- Standard measurement range: ±3% of measured value, + 0.3% of final value- Extended measurement range: ±8% of measured value, + 1% of final value

Technical information

| | |
|----------|--------------------------|
| Material | |
| Housing | Polyamide, Polycarbonate |
| Seals | Fluorocaoutchouc |

Dimensions

Dimensions in mm

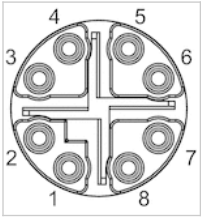


* Internal thread

** Flow direction

Pin assignments

Pin assignments, M12, X-coded



| Pin | 1 | 2 | 3 | 4 | 7 | 8 | 5 |
|----------|-------------|-------------|-------------|-------------|---------|------|---------|
| Color | WH / OG | OG | WH / GN | GN | WH / BU | BU | WH / BN |
| Function | TX(+) + POE | TX(-) + POE | RX(+) - POE | RX(-) - POE | POE+ | POE+ | POE- |

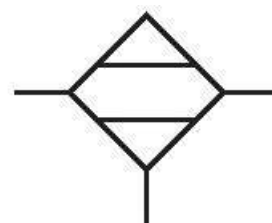
| | | | | | | | |
|------|--|--|--|--|--|--|--|
| 6 | | | | | | | |
| BN | | | | | | | |
| POE- | | | | | | | |

Diaphragm-type dryer, Series AS3-ADD

R412007078

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Parts
Diaphragm-type dryer

Type
Diaphragm-type dryer

Mounting orientation
vertical

Port
G 1/2

Nominal flow Qn
400 l/min

Recommended pre-filtering μm
5 μm
0.01 μm

Filter element
not exchangeable

Working pressure min.
4 bar

Working pressure max
12.5 bar

Min. ambient temperature
2 °C

Max. ambient temperature
50 °C

Medium
Compressed air
Neutral gases

Weight
2.03 kg

Materials:

Housing

Polyamide

Front plate

Acrylonitrile butadiene styrene

Seal

Acrylonitrile butadiene rubber

Threaded bushing

Die cast zinc

Reservoir

Aluminum

Part No.

R412007078

Technical information

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

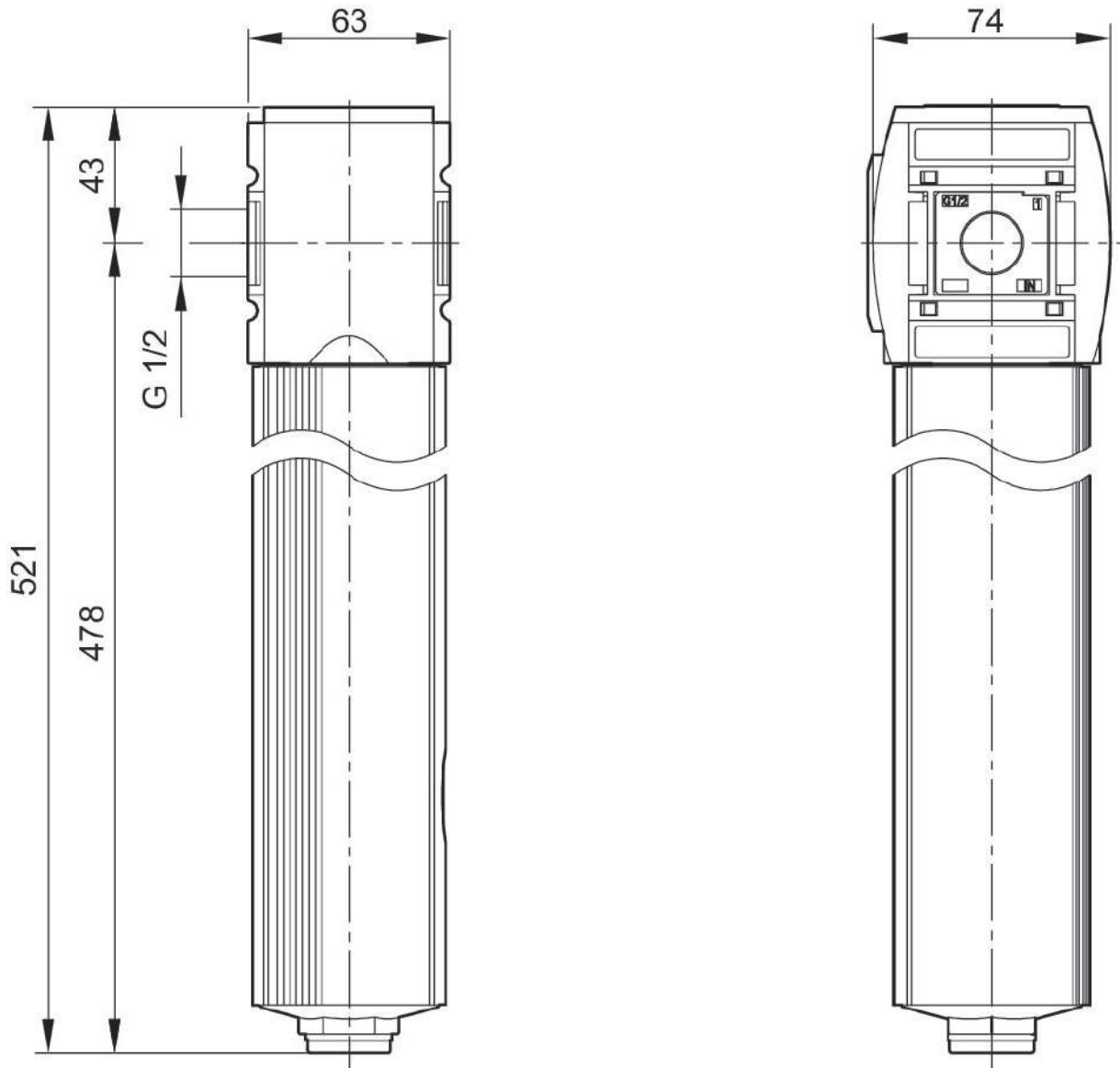
Notice: air may not contain condensate

Purge air approx. 12 % of nominal flow Qn at 7 bar

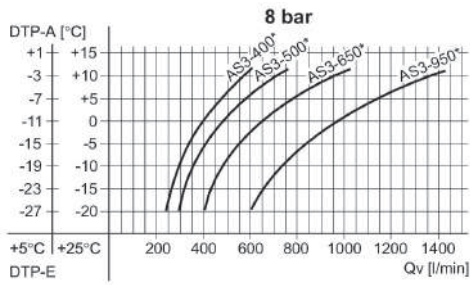
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Pressure dew point reduction: see diagram

Dimensions in mm

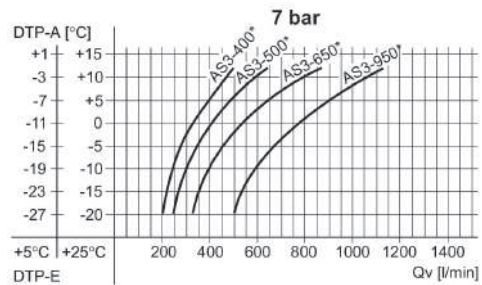


Performance charts



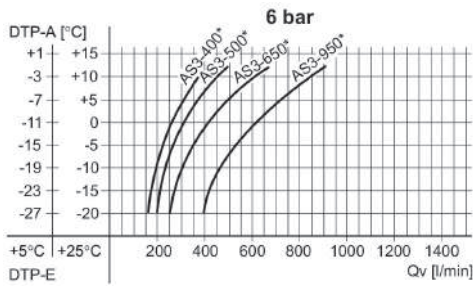
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



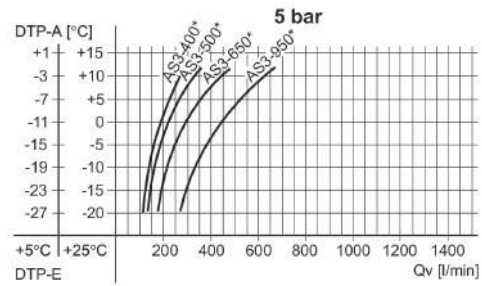
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts

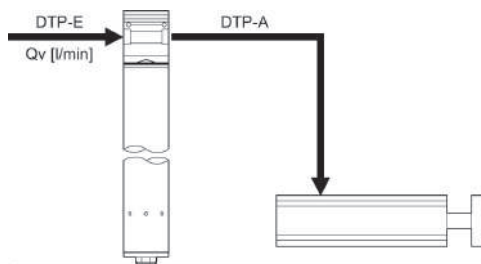


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

Wanted:

Suitable membrane dryer

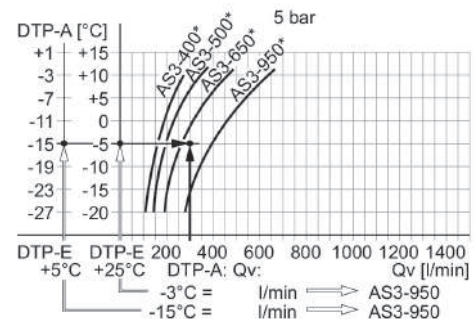


Example

Give values:

Qv = 350 l/min, DTP-E = +5 (+25) °C,

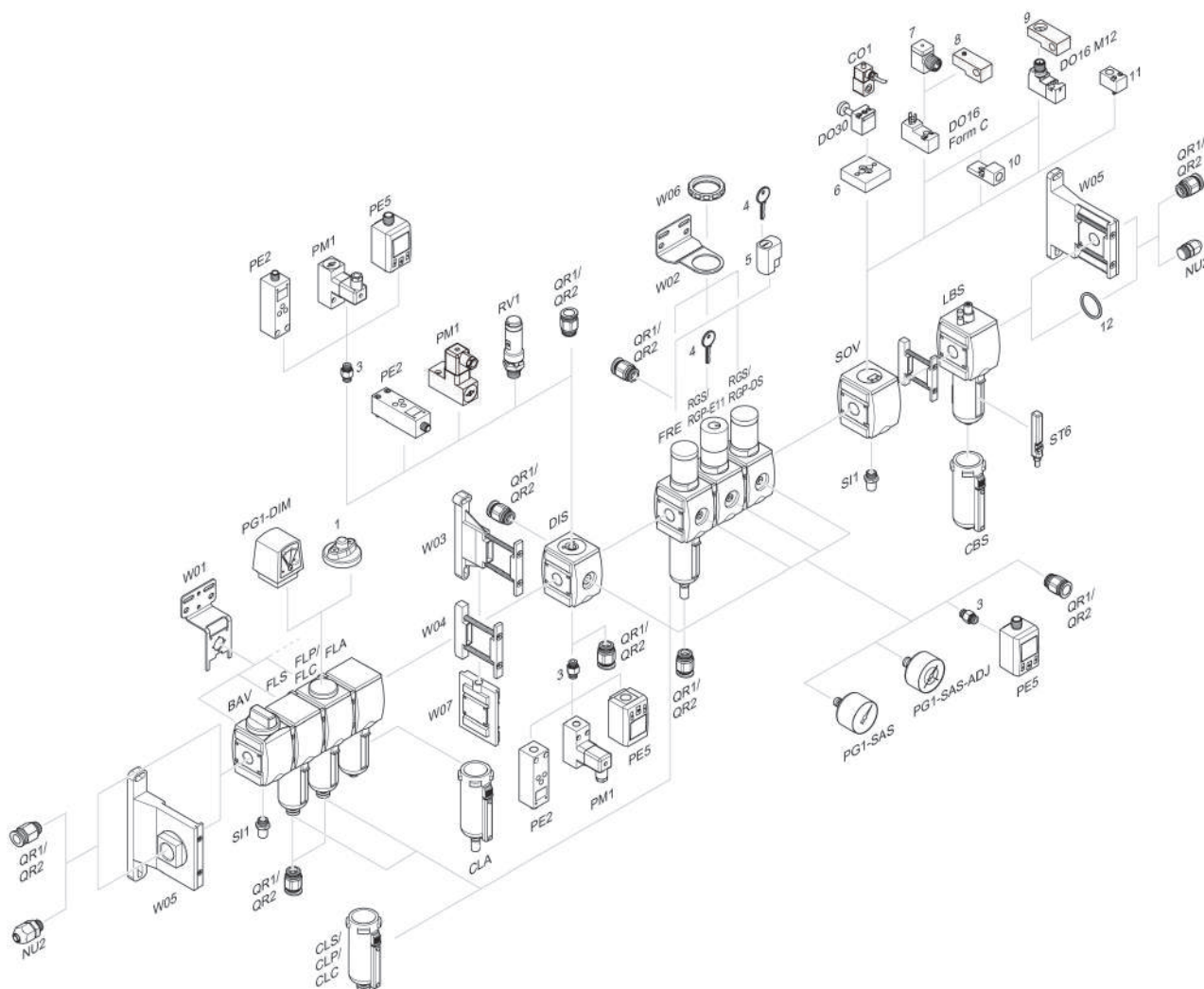
searched values: DTP-A = -15 (-3) °C a suitable membrane dryer



Result: membrane dryer series AS3-950 (with a Qn of 950 l/min), part no. R412007081

* Nominal flow Qn

Accessories overview



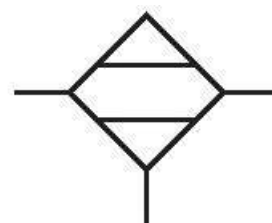
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Diaphragm-type dryer, Series AS3-ADD

R412007079

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Parts
Diaphragm-type dryer

Type
Diaphragm-type dryer

Mounting orientation
vertical

Port
G 1/2

Nominal flow Qn
500 l/min

Recommended pre-filtering μm
5 μm
0.01 μm

Filter element
not exchangeable

Working pressure min.
4 bar

Working pressure max
12.5 bar

Min. ambient temperature
2 °C

Max. ambient temperature
50 °C

Medium
Compressed air
Neutral gases

Weight
3.26 kg

Materials:

Housing

Polyamide

Front plate

Acrylonitrile butadiene styrene

Seal

Acrylonitrile butadiene rubber

Threaded bushing

Die cast zinc

Reservoir

Aluminum

Part No.

R412007079

Technical information

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

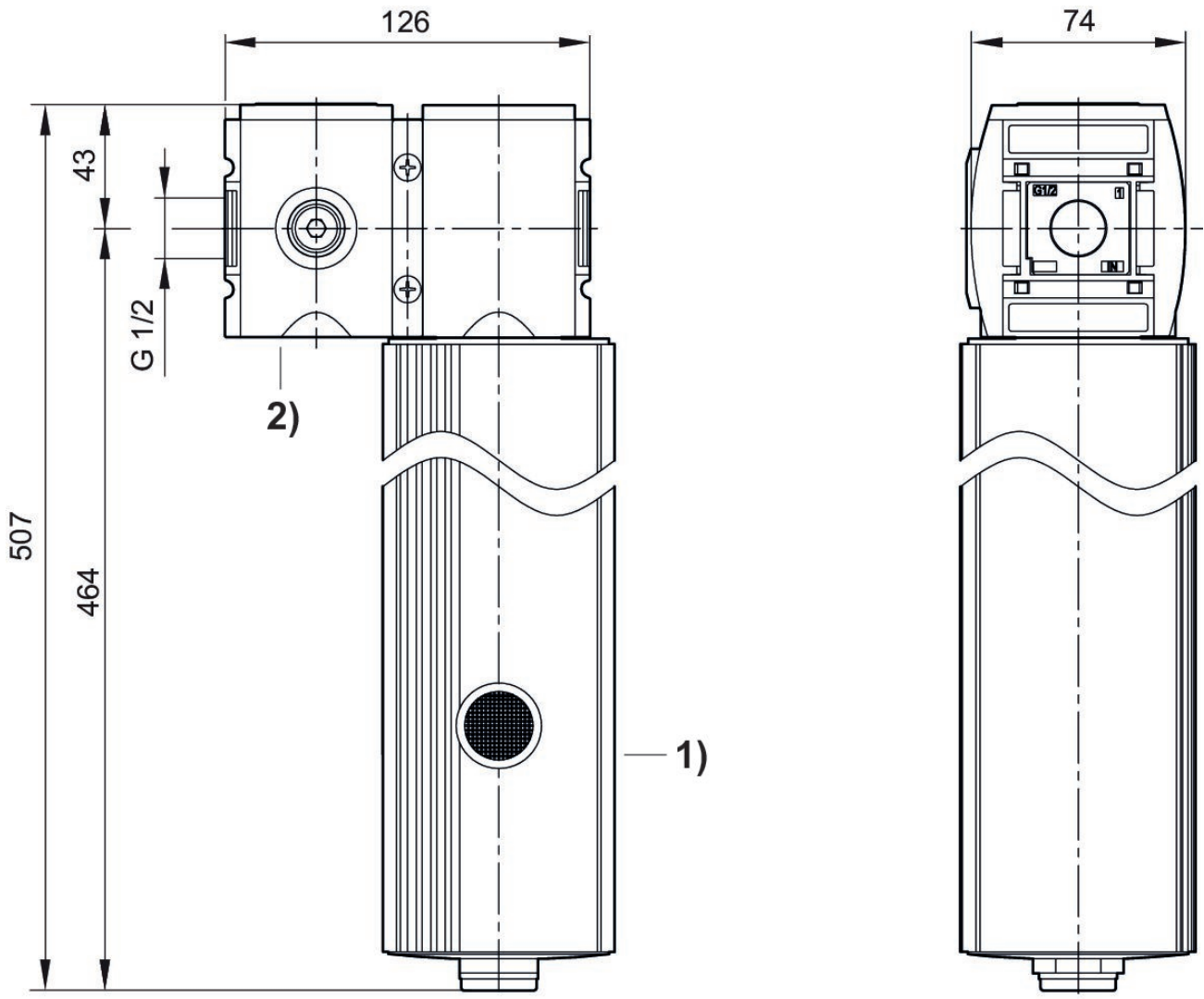
Notice: air may not contain condensate

Purge air approx. 12 % of nominal flow Qn at 7 bar

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

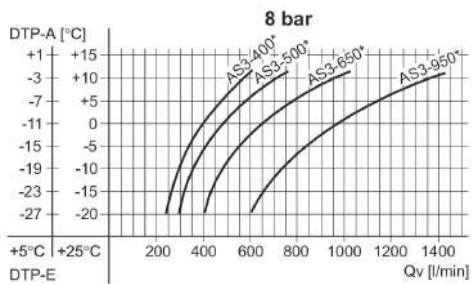
Pressure dew point reduction: see diagram

Dimensions in mm



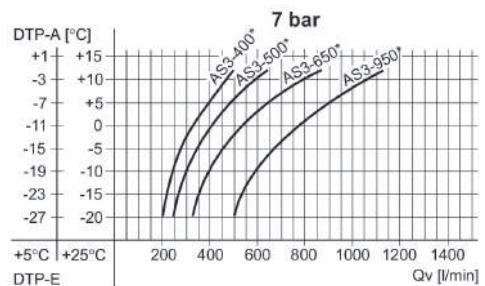
- 1) Diaphragm-type dryer
- 2) Incl. second distributor

Performance charts



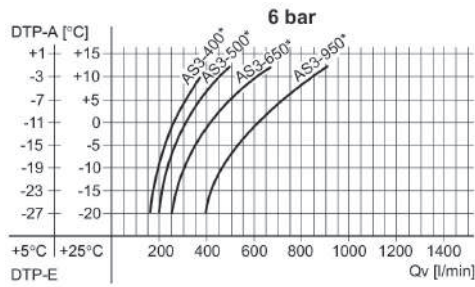
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



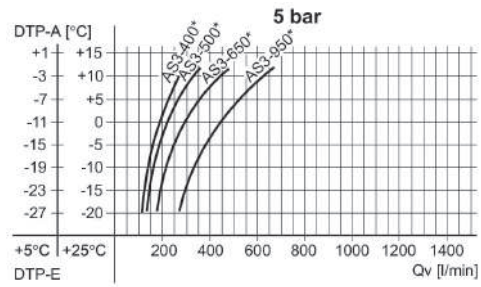
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts

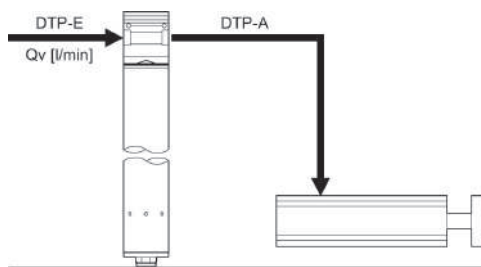


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

Wanted:

Suitable membrane dryer

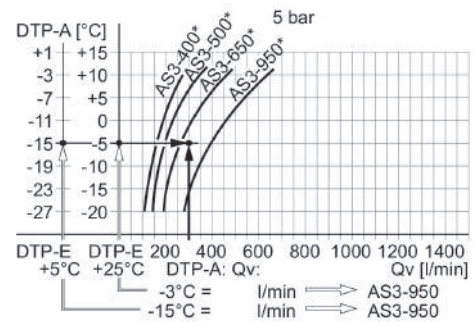


Example

Give values:

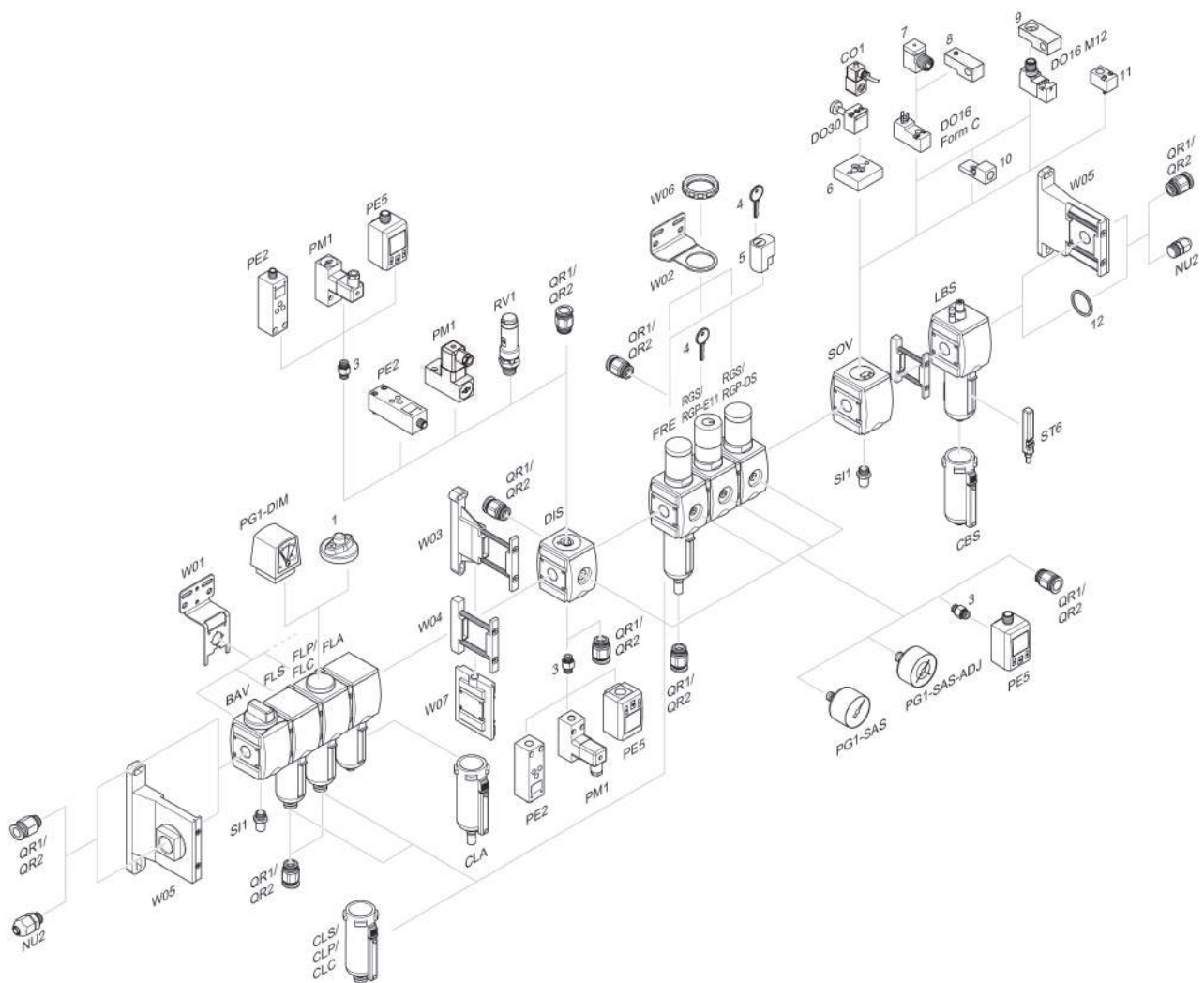
Qv = 350 l/min, DTP-E = +5 (+25) °C,

searched values: DTP-A = -15 (-3) °C a suitable membrane dryer



Result: membrane dryer series AS3-950 (with a Qn of 950 l/min), part no. R412007081
* Nominal flow Qn

Accessories overview



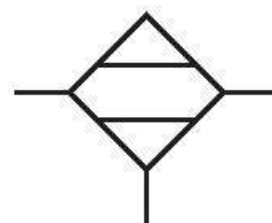
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Diaphragm-type dryer, Series AS3-ADD

R412007080

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Parts
Diaphragm-type dryer

Type
Diaphragm-type dryer

Mounting orientation
vertical

Port
G 1/2

Nominal flow Qn
660 l/min

Recommended pre-filtering μm
5 μm
0.01 μm

Filter element
not exchangeable

Working pressure min.
4 bar

Working pressure max
12.5 bar

Min. ambient temperature
2 °C

Max. ambient temperature
50 °C

Medium
Compressed air
Neutral gases

Weight
3.56 kg

Materials:

Housing

Polyamide

Front plate

Acrylonitrile butadiene styrene

Seal

Acrylonitrile butadiene rubber

Threaded bushing

Die cast zinc

Reservoir

Aluminum

Part No.

R412007080

Technical information

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

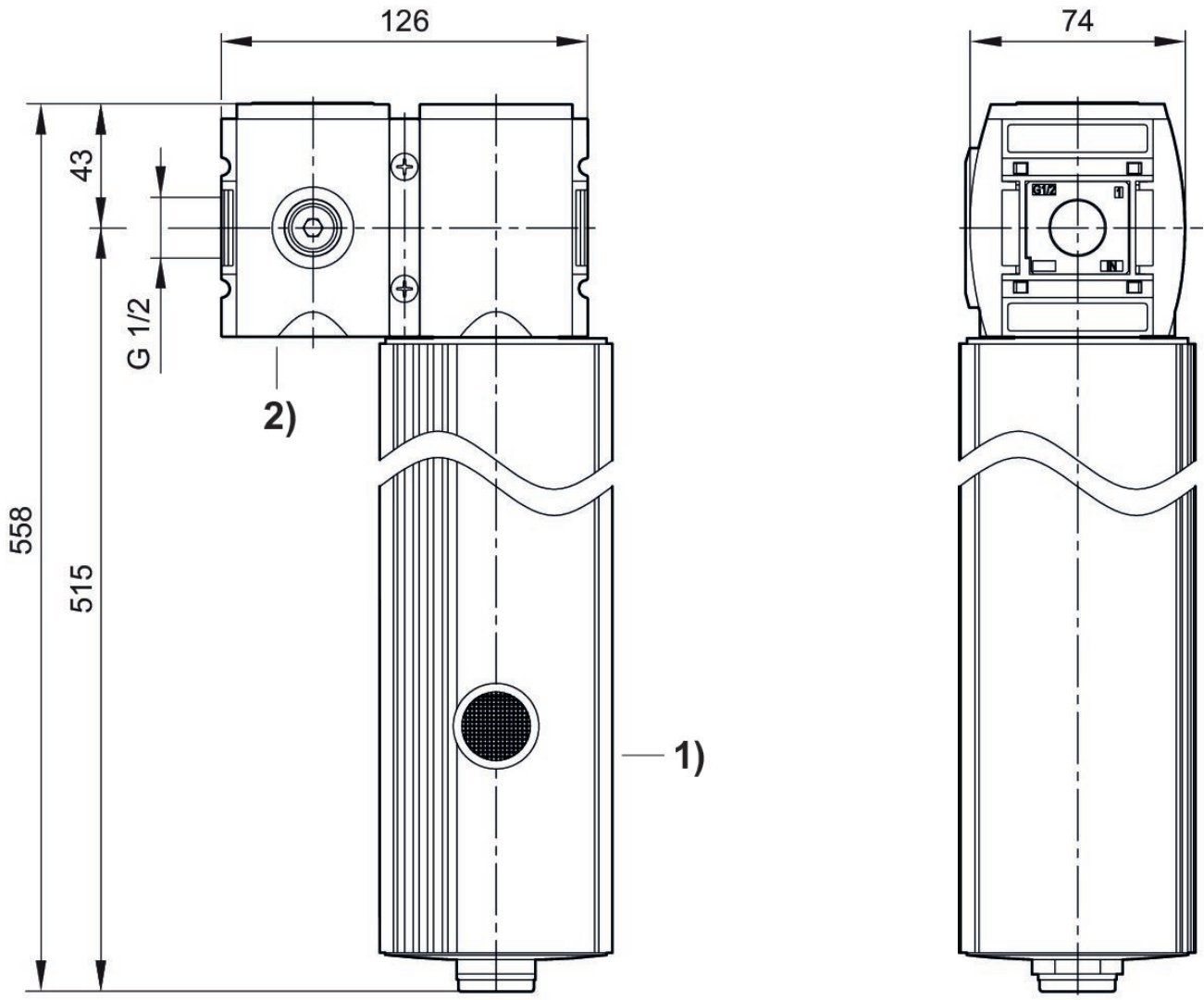
Notice: air may not contain condensate

Purge air approx. 12 % of nominal flow Qn at 7 bar

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

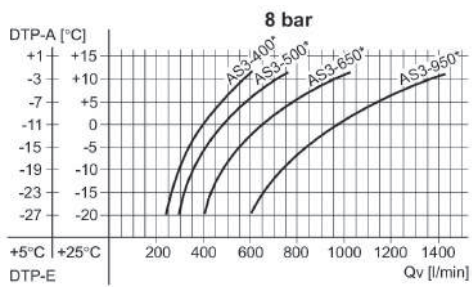
Pressure dew point reduction: see diagram

Dimensions in mm



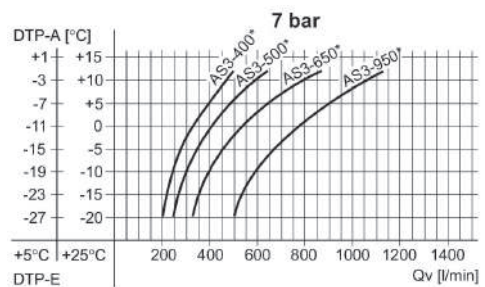
- 1) Diaphragm-type dryer
- 2) Incl. second distributor

Performance charts



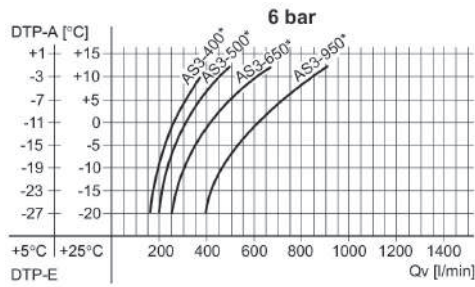
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



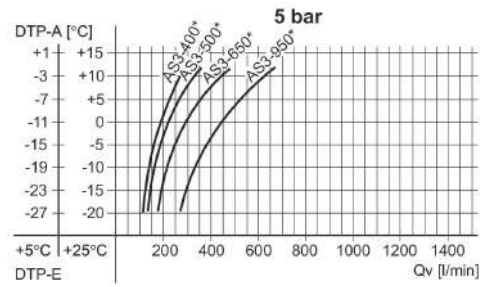
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts

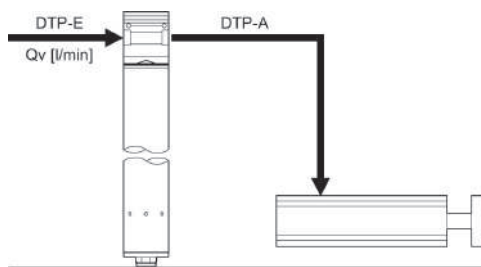


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

Wanted:

Suitable membrane dryer

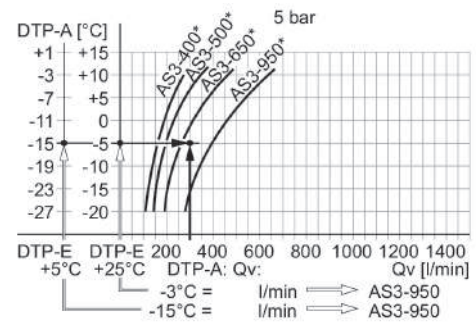


Example

Give values:

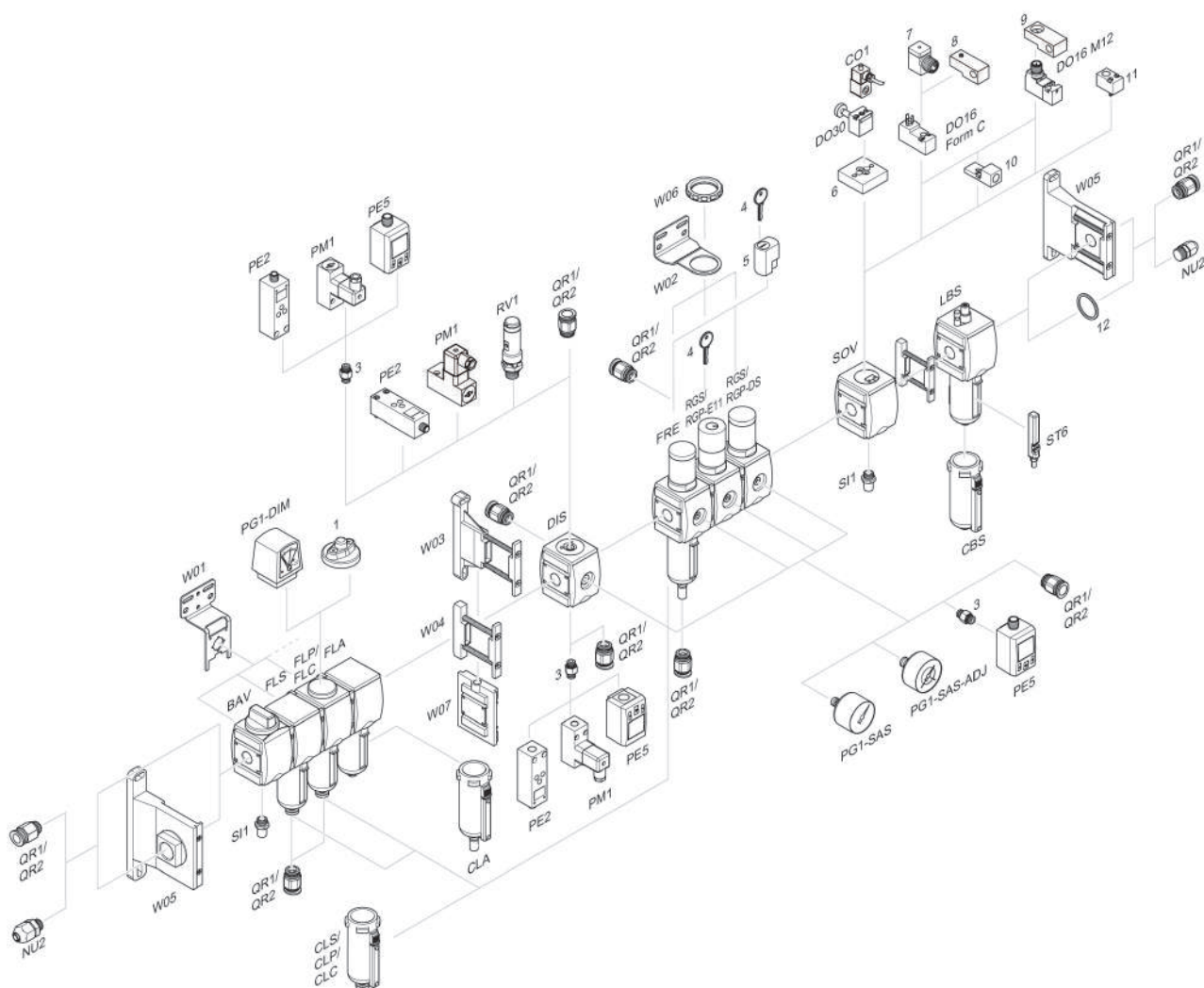
Qv = 350 l/min, DTP-E = +5 (+25) °C,

searched values: DTP-A = -15 (-3) °C a suitable membrane dryer



Result: membrane dryer series AS3-950 (with a Qn of 950 l/min), part no. R412007081
* Nominal flow Qn

Accessories overview



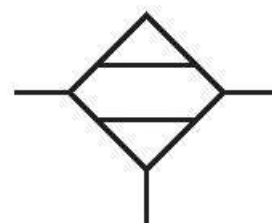
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Diaphragm-type dryer, Series AS3-ADD

R412007081

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Parts
Diaphragm-type dryer

Type
Diaphragm-type dryer

Mounting orientation
vertical

Port
G 1/2

Nominal flow Qn
950 l/min

Recommended pre-filtering μm

5 μm
0.01 μm

Filter element
not exchangeable

Working pressure min.
4 bar

Working pressure max
12.5 bar

Min. ambient temperature
2 °C

Max. ambient temperature
50 °C

Medium
Compressed air
Neutral gases

Weight
3.9 kg

Materials:

Housing

Polyamide

Front plate

Acrylonitrile butadiene styrene

Seal

Acrylonitrile butadiene rubber

Threaded bushing

Die cast zinc

Reservoir

Aluminum

Part No.

R412007081

Technical information

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

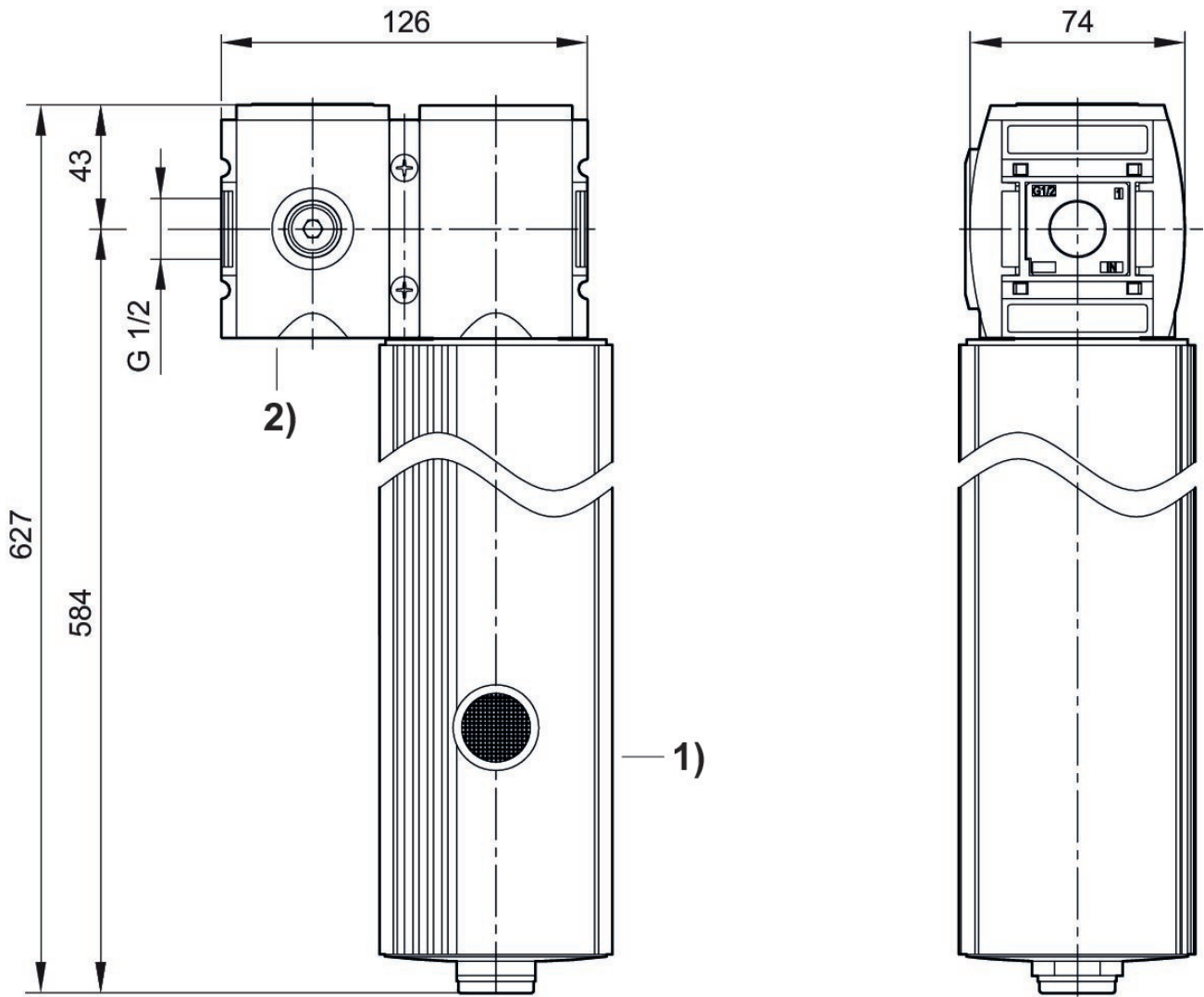
Notice: air may not contain condensate

Purge air approx. 12 % of nominal flow Qn at 7 bar

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

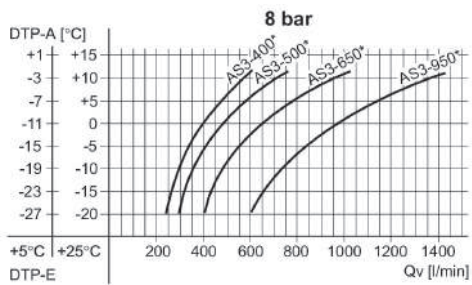
Pressure dew point reduction: see diagram

Dimensions in mm



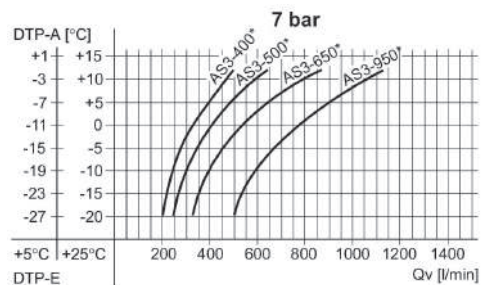
- 1) Diaphragm-type dryer
- 2) Incl. second distributor

Performance charts



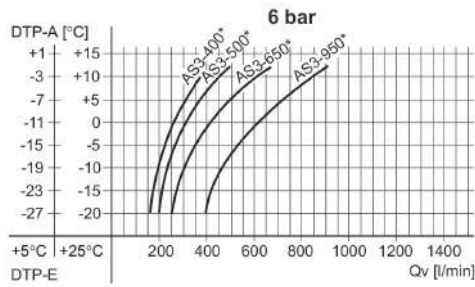
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



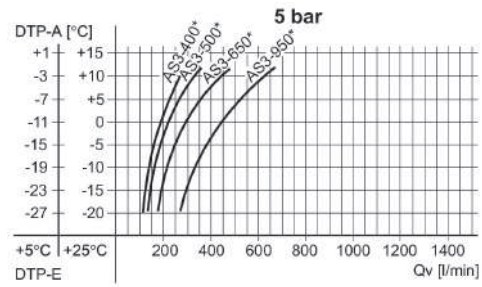
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts

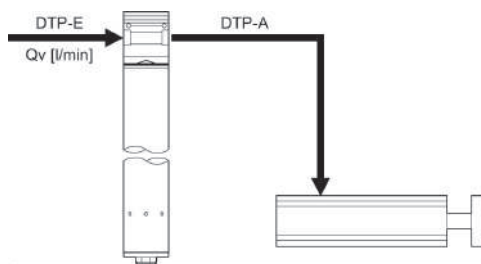


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

Wanted:

Suitable membrane dryer

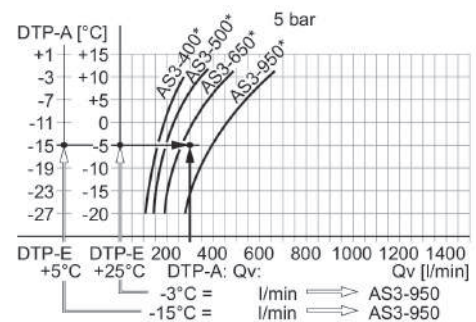


Example

Give values:

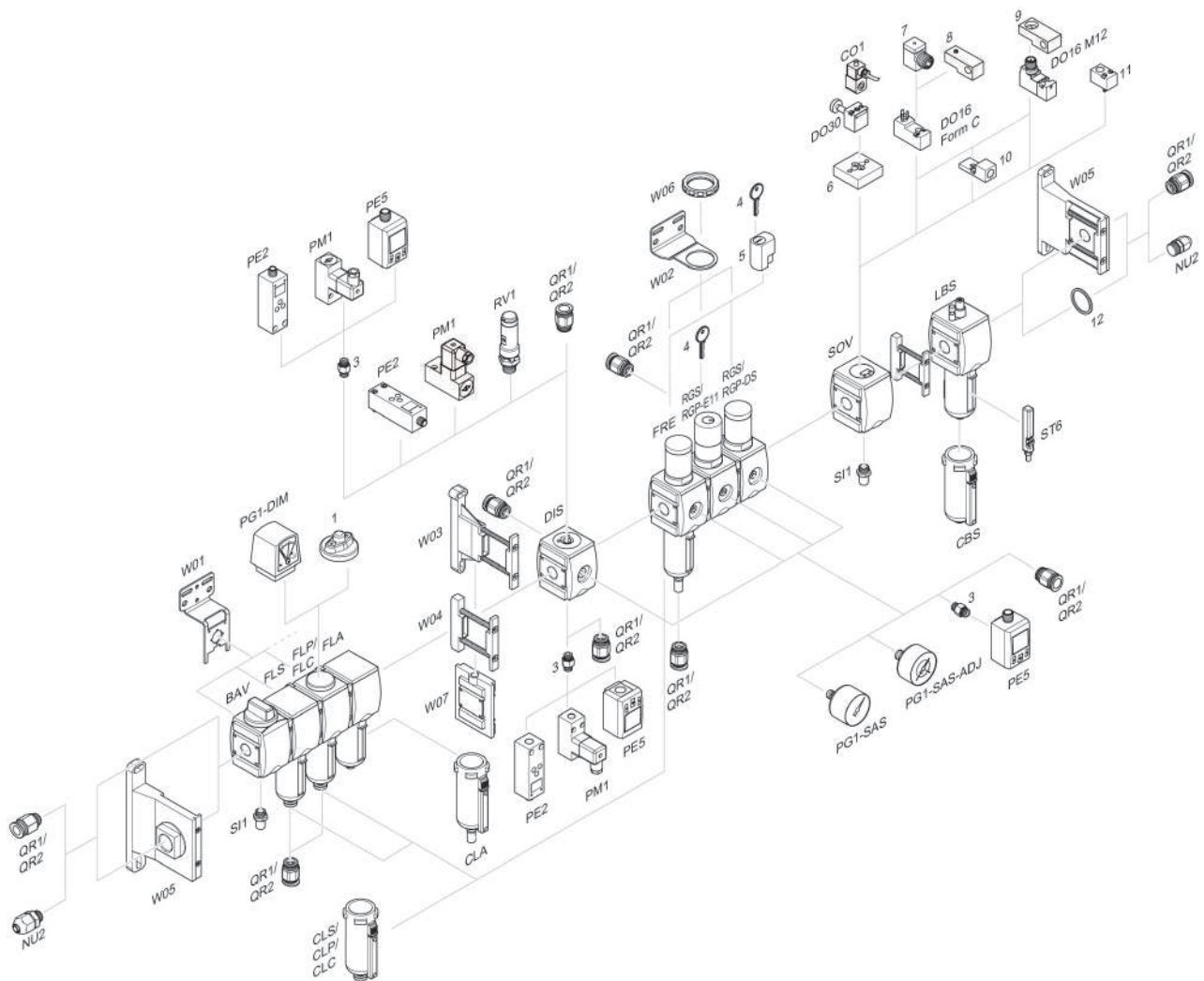
Qv = 350 l/min, DTP-E = +5 (+25) °C,

searched values: DTP-A = -15 (-3) °C a suitable membrane dryer



Result: membrane dryer series AS3-950 (with a Qn of 950 l/min), part no. R412007081
* Nominal flow Qn

Accessories overview



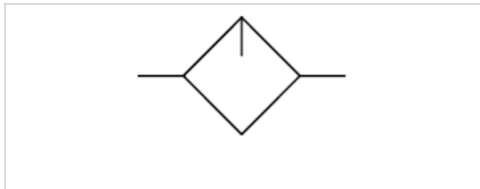
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

Standard oil-mist lubricator, Series AS3-LBS

- G 3/8 G 1/2



| | |
|-------------------------------|-------------------------------------------------------------------|
| Version | Oil-mist lubricator, Can be assembled into blocks |
| Parts | Standard oil-mist lubricator |
| Mounting orientation | vertical |
| Working pressure min./max. | 0.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Lubricator reservoir volume | 80 cm ³ |
| Type of filling | Semi-automatic oil filling during operation Manual oil filling |
| Weight | See table below |



Technical data

| Part No. | Port | Nominal flow Qn | Material Reservoir | Protective guard |
|------------|-------|-----------------|---------------------------|------------------|
| R412007225 | G 3/8 | 8000 l/min | Polycarbonate | Polyamide |
| R412007226 | G 3/8 | 8000 l/min | Polycarbonate | Polyamide |
| R412007229 | G 3/8 | 8000 l/min | Die cast zinc with window | - |
| R412007231 | G 1/2 | 8000 l/min | Polycarbonate | Polyamide |
| R412007232 | G 1/2 | 8000 l/min | Polycarbonate | Polyamide |
| R412007235 | G 1/2 | 8000 l/min | Die cast zinc with window | - |

| Part No. | Reservoir | Weight | |
|------------|---------------------------------------------------|----------|----|
| R412007225 | reservoir, PA, with PA protective guard | 0.343 kg | |
| R412007226 | reservoir, PA, with PA protective guard | 0.343 kg | 1) |
| R412007229 | reservoir, metal, standard, with inspection glass | 0.749 kg | |
| R412007231 | reservoir, PA, with PA protective guard | 0.343 kg | |
| R412007232 | reservoir, PA, with PA protective guard | 0.343 kg | 1) |
| R412007235 | reservoir, metal, standard, with inspection glass | 0.728 kg | |

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

1) Electrical level detection.

Technical information

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.
 Sensor not included in scope of delivery, sensor installation prepared.
 The entire preset drip quantity enters the pressure system.

Manual oil filling possible during operation at a maximum operating pressure of 10 bar.

Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information". A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Oil dosing at 1000 l/min 1-2 drops

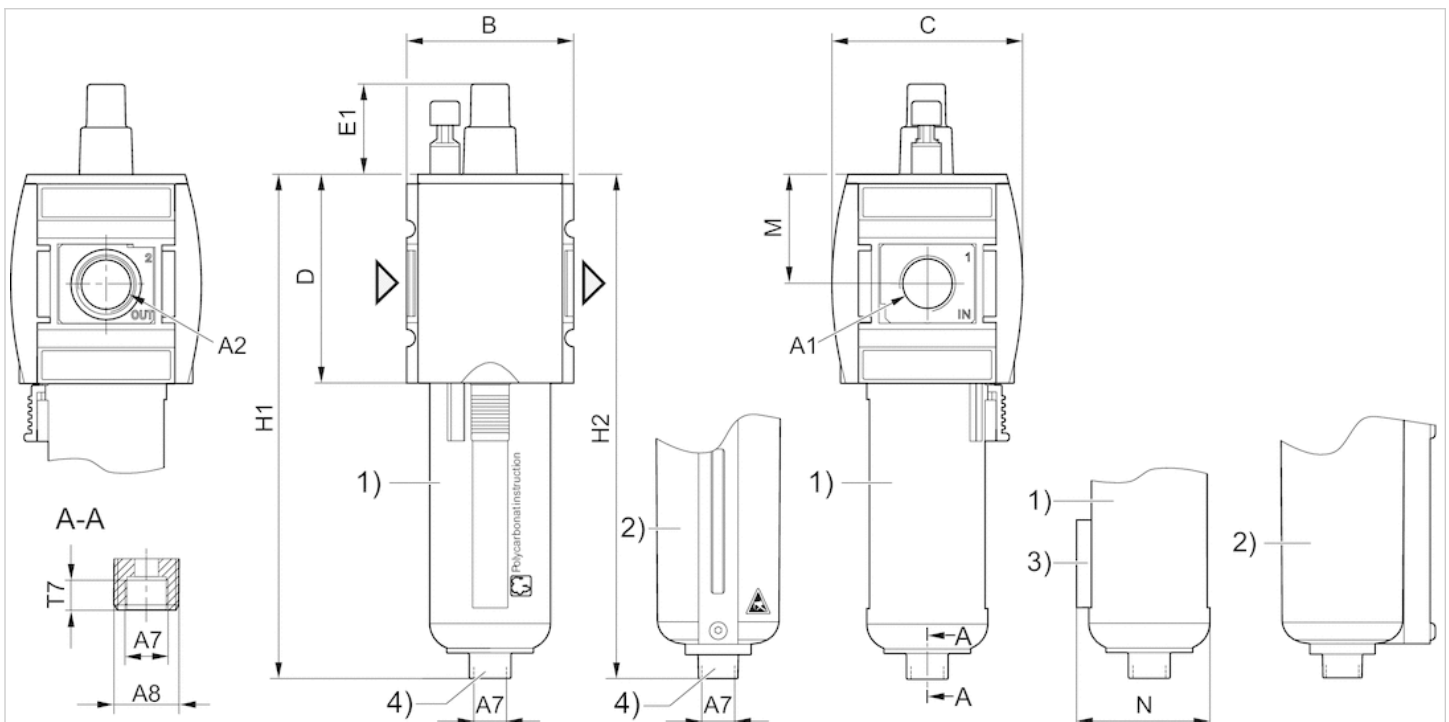
Technical information

Material

| | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |

Dimensions

Dimensions



A1 = input
 A2 = output

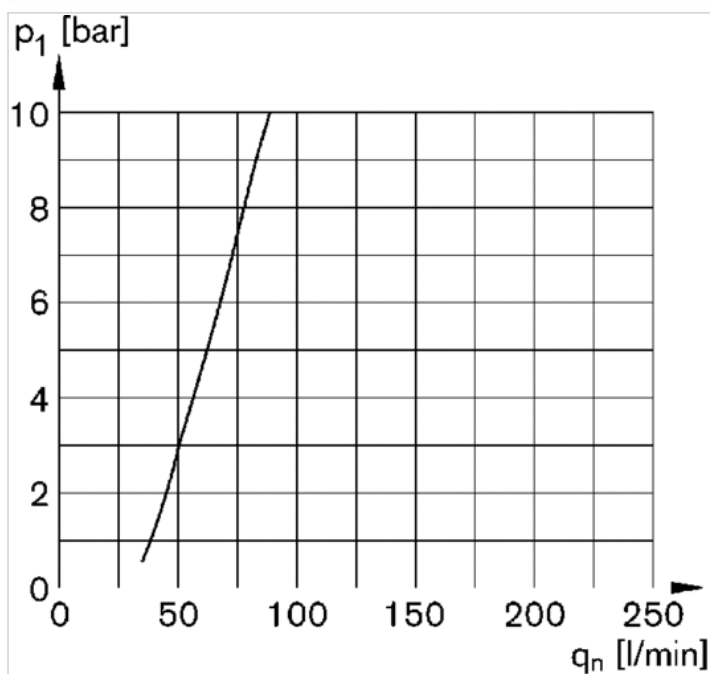
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Holder for sensor
- 4) Port for semi-automatic oil filling

Dimensions in mm

| A1 | A2 | A7 | A8 | B | C | D | E1 | H1 | H2 | M | N | T7 |
|-------|-------|-------|-------|----|----|----|------|-----|-----|------|----|----|
| G 3/8 | G 3/8 | G 1/8 | G 1/4 | 63 | 74 | 80 | 27.5 | 183 | 187 | 42.5 | 48 | 7 |
| G 1/2 | G 1/2 | G 1/8 | G 1/4 | 63 | 74 | 80 | 27.5 | 183 | 187 | 42.5 | 48 | 7 |

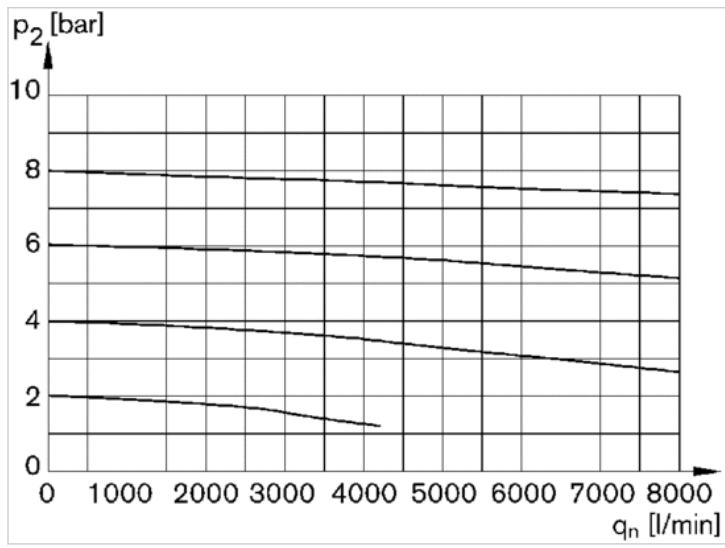
Diagrams

Lubricator activation margin



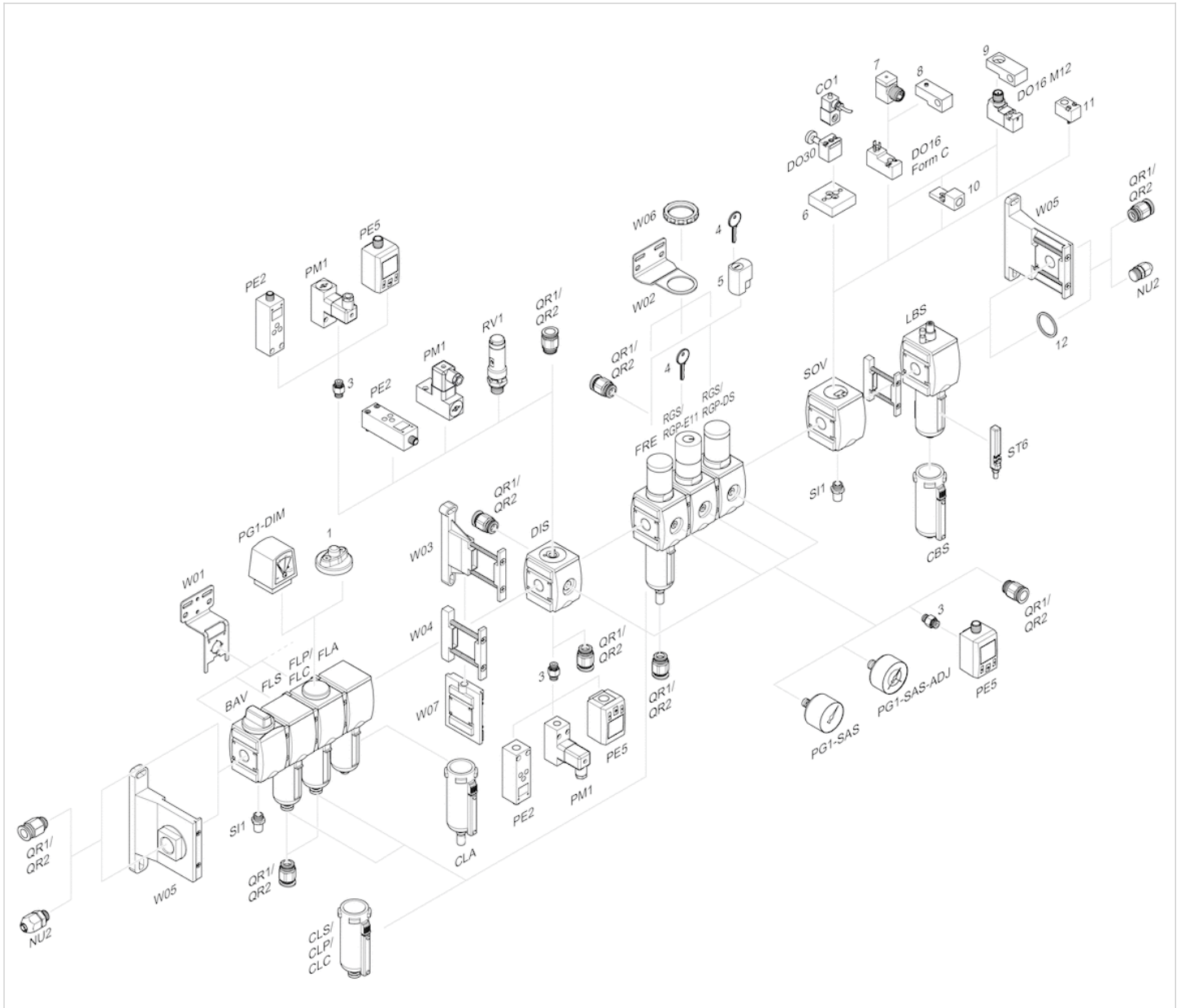
p_1 = working pressure
 q_n = nominal flow

Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring
















Filling unit, electrically operated, Series AS3-SSU

- adjustable filling time
- Compressed air connection G 3/8 G 1/2
- Pipe connection



| | |
|-------------------------------------------------|-------------------------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Parts | Filling valve, 3/2-directional valve, electrically operated |
| Nominal flow | 3500 l/min |
| Nominal flow 1 ▶ 2 | 3500 l/min |
| Nominal flow 2 ▶ 3 | 3200 l/min |
| Working pressure min./max. | 2.5 ... 10 bar |
| Medium | Compressed air Neutral gases |
| Medium temperature min./max. | -10 ... 50 °C |
| Ambient temperature min./max. | -10 ... 50 °C |
| Pilot | Internal |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class acc. to DIN EN 61140 with plug | IP65 |
| Duty cycle | 100 % |
| Weight | See table below |

Technical data

| Part No. | | | Compressed air connection input | Compressed air connection output | Exhaust |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------|---------|
| R412007277 |  | — | G 3/8 | G 3/8 | G 1/2 |
| R412007282 |  | — | G 1/2 | G 1/2 | G 1/2 |
| R412007287 |  | — | G 1/2 | G 1/2 | G 1/2 |
| R412007278 |  |  | G 3/8 | G 3/8 | G 1/2 |
| R412007280 |  |  | G 3/8 | G 3/8 | G 1/2 |
| R412007394 |  |  | G 1/2 | - | G 1/2 |
| R412007283 |  |  | G 1/2 | G 1/2 | G 1/2 |
| R412007284 |  |  | G 1/2 | G 1/2 | G 1/2 |
| R412007285 |  |  | G 1/2 | G 1/2 | G 1/2 |

| Part No. | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
| | DC | AC 50 Hz | AC 60 Hz |
| R412007277 | - | - | - |
| R412007282 | - | - | - |
| R412007287 | - | - | - |
| R412007278 | 24 V | - | - |
| R412007280 | - | 220 V | 230 V |
| R412007394 | 24 V | - | - |
| R412007283 | 24 V | - | - |

| Part No. | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
| | DC | AC 50 Hz | AC 60 Hz |
| R412007284 | - | 110 V | 110 V |
| R412007285 | - | 220 V | 230 V |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| R412007277 | - | - | - | - |
| R412007282 | - | - | - | - |
| R412007287 | - | - | - | - |
| R412007278 | 2 W | - | - | - |
| R412007280 | - | 1.6 VA | 1.4 VA | 2.2 VA |
| R412007394 | 2 W | - | - | - |
| R412007283 | 2 W | - | - | - |
| R412007284 | - | 1.6 VA | 1.4 VA | 2.2 VA |
| R412007285 | - | 1.6 VA | 1.4 VA | 2.2 VA |

| Part No. | Switch-on power | Electrical connection | Connector standard |
|------------|-----------------|-------------------------|--------------------|
| | AC 60 Hz | Pilot valve | |
| R412007277 | - | - | - |
| R412007282 | - | - | - |
| R412007287 | - | - | - |
| R412007278 | - | Plug, ISO 15217, form C | ISO 15217 |
| R412007280 | 1.6 VA | Plug, ISO 15217, form C | ISO 15217 |
| R412007394 | - | Plug, M12x1 | - |
| R412007283 | - | Plug, ISO 15217, form C | ISO 15217 |
| R412007284 | 1.6 VA | Plug, ISO 15217, form C | ISO 15217 |
| R412007285 | 1.6 VA | Plug, ISO 15217, form C | ISO 15217 |

| Part No. | basic valve with electrical connector |
|------------|-----------------------------------------------------|
| R412007277 | Basic valve without pilot valve |
| R412007282 | Basic valve without pilot valve |
| R412007287 | Basic valve without pilot valve, with CNOMO subbase |
| R412007278 | Basic valve with pilot valve |
| R412007280 | Basic valve with pilot valve |
| R412007394 | Basic valve with pilot valve |
| R412007283 | Basic valve with pilot valve |
| R412007284 | Basic valve with pilot valve |
| R412007285 | Basic valve with pilot valve |

| Part No. | Reverse polarity protection | Weight | Fig. | |
|------------|-------------------------------------|----------|--------|----|
| R412007277 | - | 0.889 kg | Fig. 1 | |
| R412007282 | - | 0.889 kg | Fig. 1 | |
| R412007287 | - | 0.895 kg | Fig. 2 | |
| R412007278 | Protected against polarity reversal | 0.924 kg | Fig. 3 | |
| R412007280 | Protected against polarity reversal | 0.924 kg | Fig. 3 | |
| R412007394 | Protected against polarity reversal | 0.9 kg | Fig. 4 | 1) |
| R412007283 | Protected against polarity reversal | 0.924 kg | Fig. 3 | |
| R412007284 | Protected against polarity reversal | 0.924 kg | Fig. 3 | |

| Part No. | Reverse polarity protection | Weight | Fig. | |
|------------|-------------------------------------|----------|--------|--|
| R412007285 | Protected against polarity reversal | 0.924 kg | Fig. 3 | |

Nominal flow Q_n with secondary pressure $p_2 = 6$ bar at $\Delta p = 0.1$ bar

1) With adjustment screw lock.

Technical information

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

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

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.

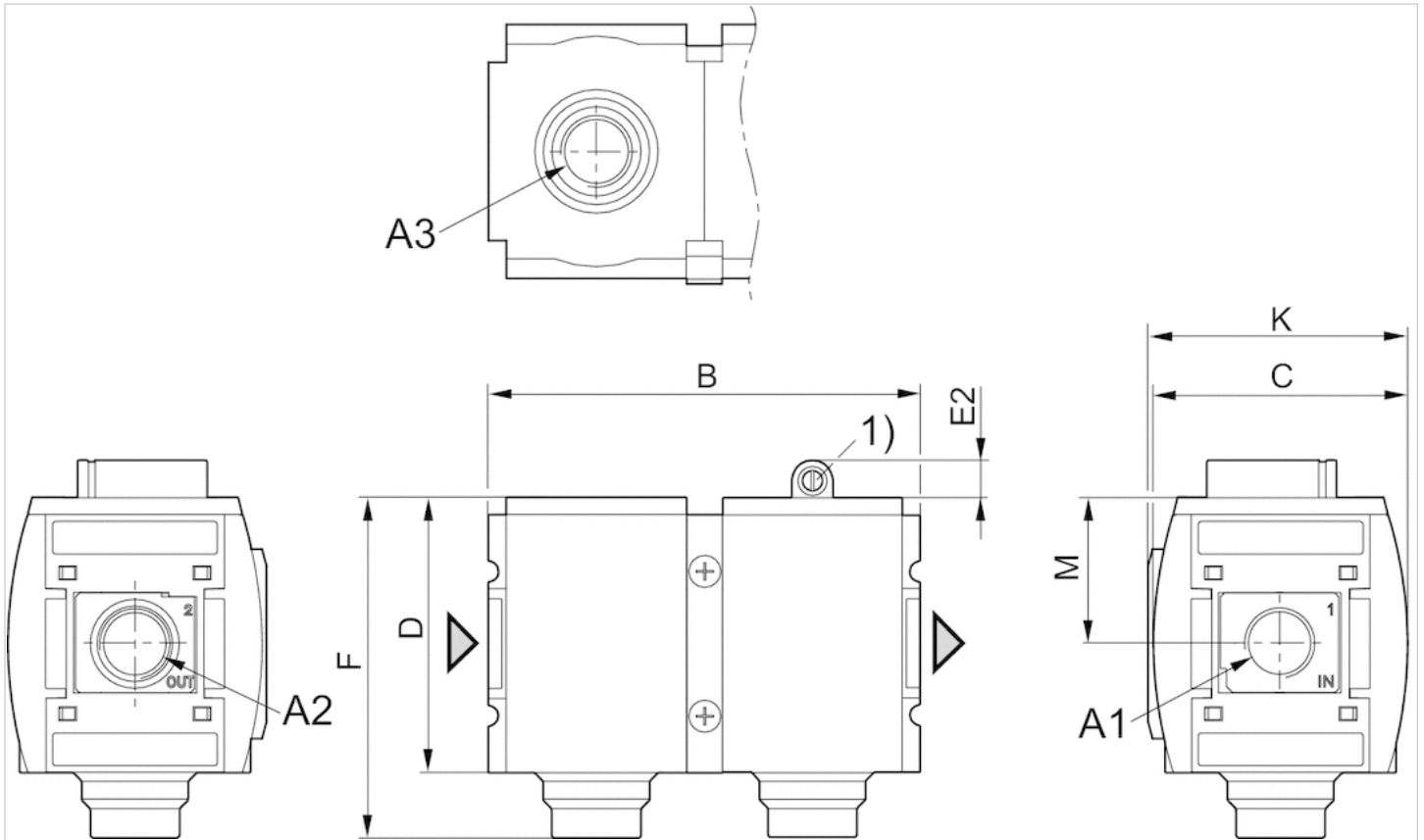
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Fig. 1: Filling unit without pilot valve with porting configuration for series D016



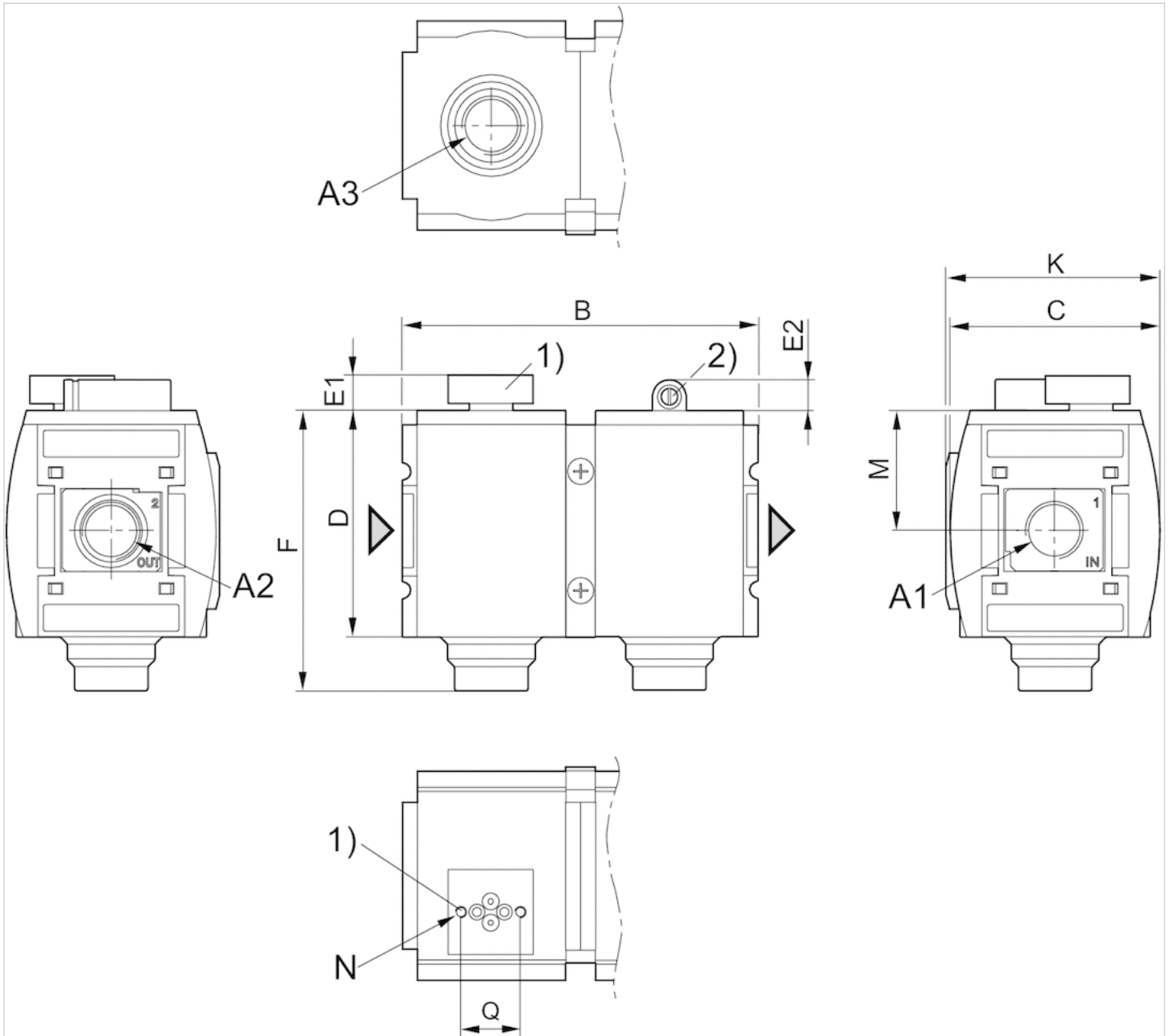
A1 = input
 A2 = output
 1) Adjustment screw for filling time

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E2 | F | K | M |
|-------|-------|-------|--------|----|----|----|----|------|------|
| G 3/8 | G 3/8 | G 1/2 | 125.75 | 74 | 80 | 11 | 99 | 75.5 | 42.5 |
| G 1/2 | G 1/2 | G 1/2 | 125.75 | 74 | 80 | 11 | 99 | 75.5 | 42.5 |

Dimensions

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



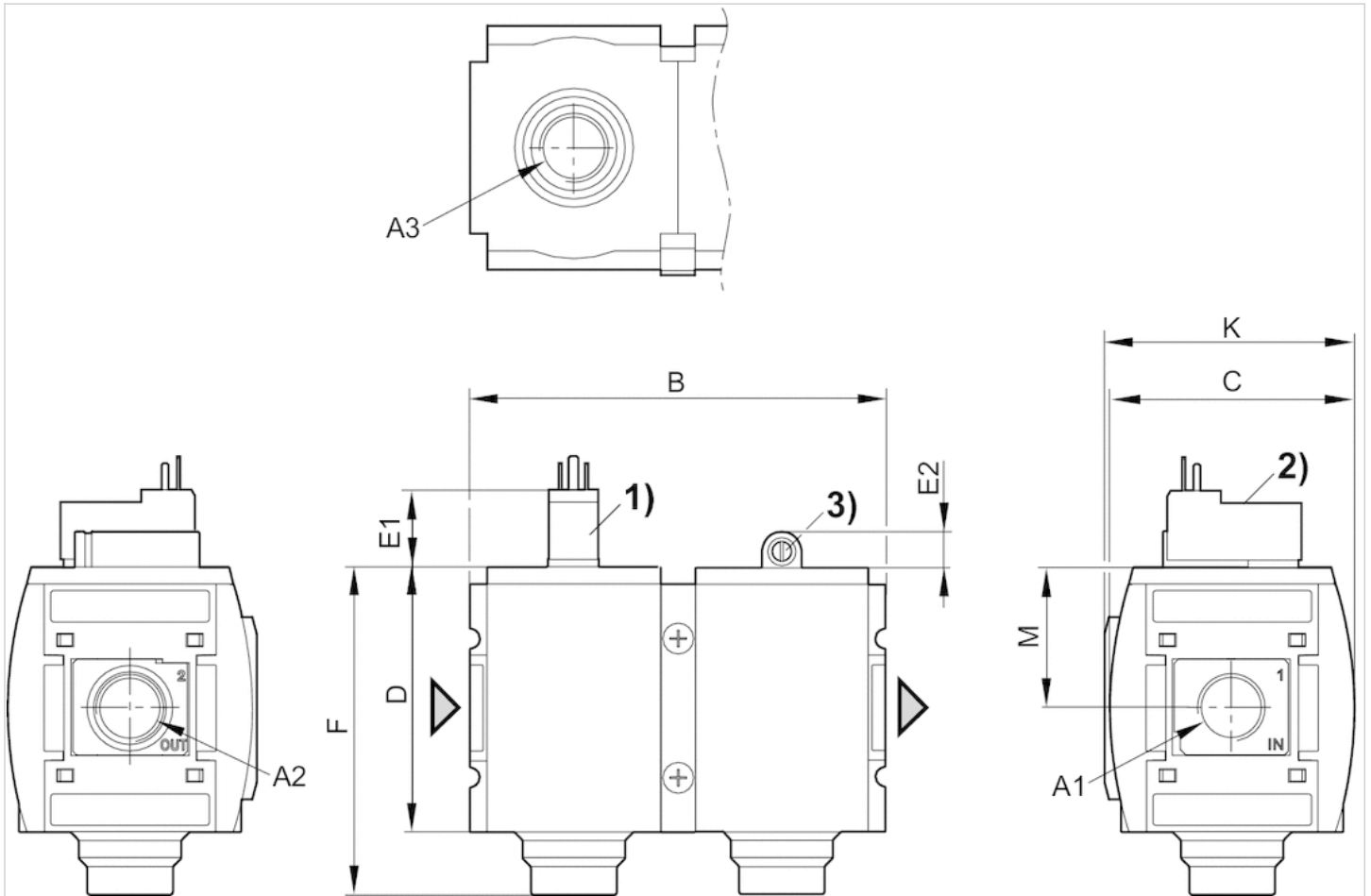
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Transition plate with CNOMO porting configuration for pilot valve DO30
- 2) Adjustment screw for filling time

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | E2 | F | K | M | N | Q |
|-------|-------|-------|--------|----|----|------|----|----|------|------|----|----|
| G 1/2 | G 1/2 | G 1/2 | 125.75 | 74 | 80 | 12.3 | 11 | 99 | 75.5 | 42.5 | M4 | 21 |

Dimensions

Fig. 3: Filling unit with pilot valve and port for valve plug connector



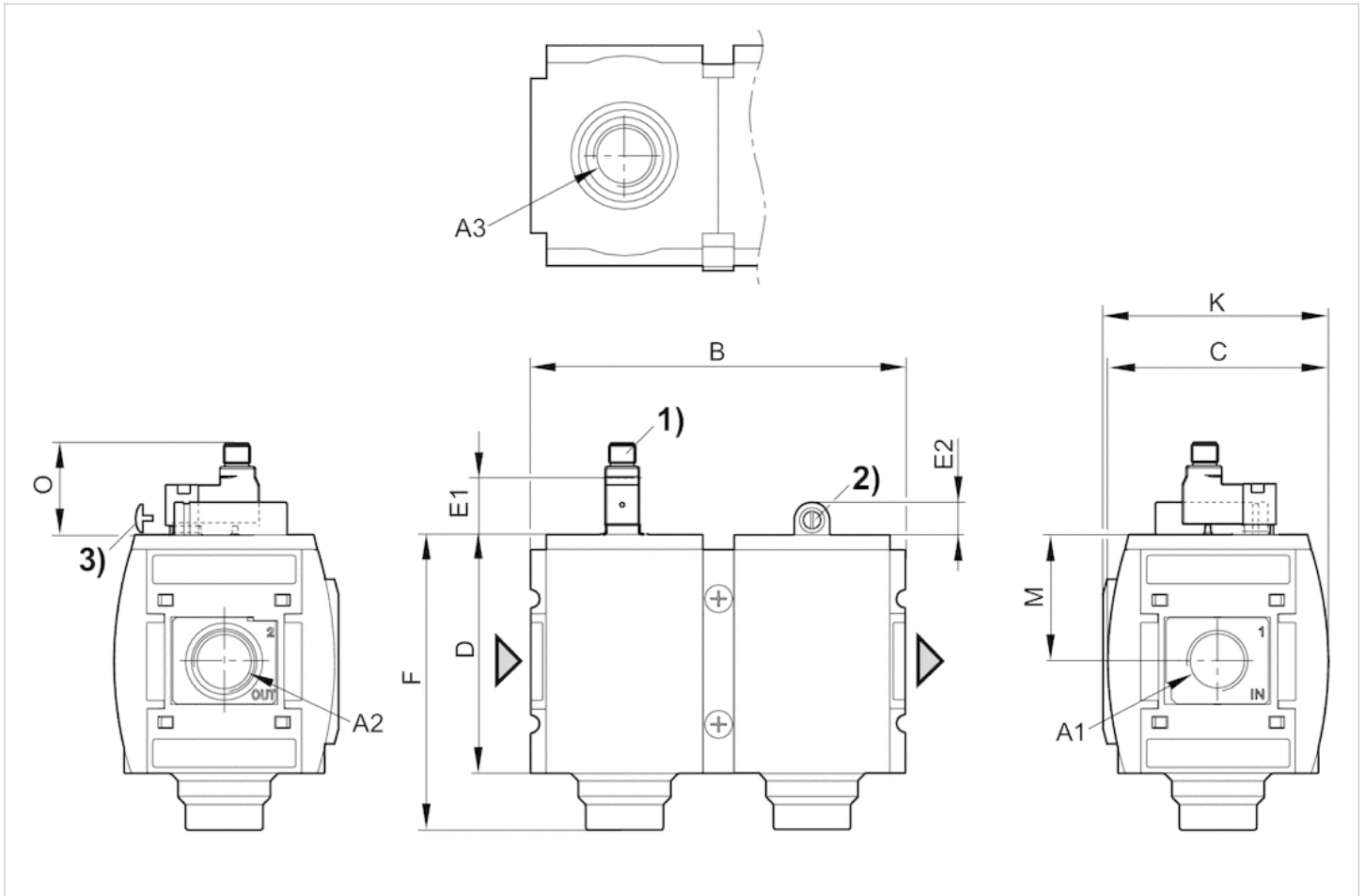
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Connection for valve plug connector according to ISO 15217 (form C)
- 2) Manual override
- 3) Adjustment screw for filling time

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | E2 | F | K | M |
|-------|-------|-------|--------|----|----|------|----|----|------|------|
| G 3/8 | G 3/8 | G 1/2 | 125.75 | 74 | 80 | 23.2 | 11 | 99 | 75.5 | 42.5 |
| G 1/2 | G 1/2 | G 1/2 | 125.75 | 74 | 80 | 23.2 | 11 | 99 | 75.5 | 42.5 |

Dimensions

Fig. 4: Filling unit with pilot valve and valve plug connector for plug



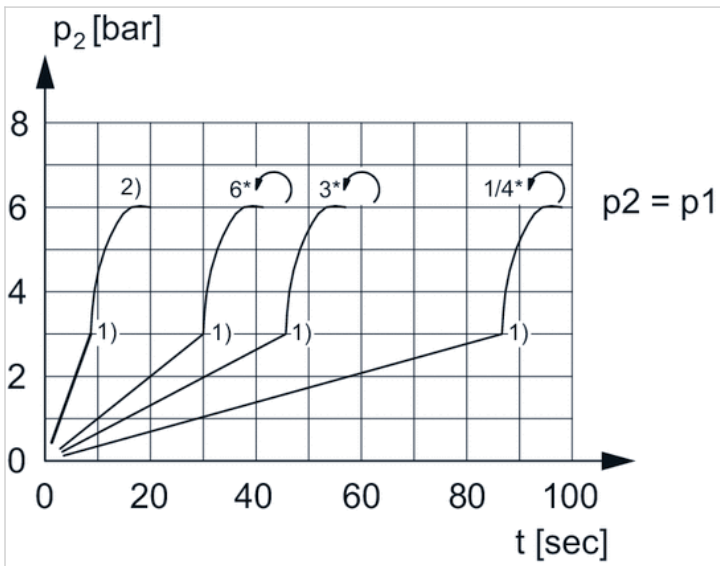
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Port for plug M12x1
- 2) Adjustment screw for filling time
- 3) Adjustment screw lock

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | E2 | F | K | M |
|-------|-------|-------|--------|----|----|----|----|----|------|------|
| G 1/2 | G 1/2 | G 1/2 | 125.75 | 74 | 80 | 39 | 11 | 99 | 75.5 | 42.5 |

Diagrams

secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

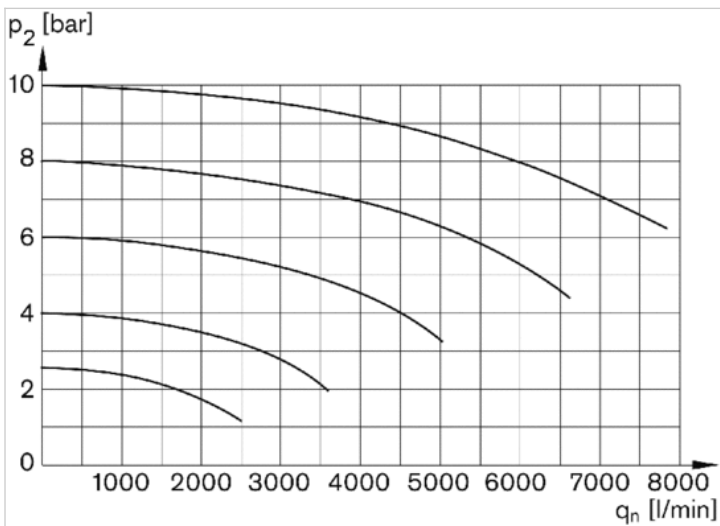
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

Flow rate characteristic

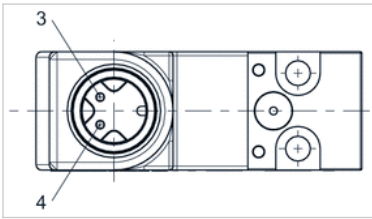


p2 = secondary pressure

qn = nominal flow

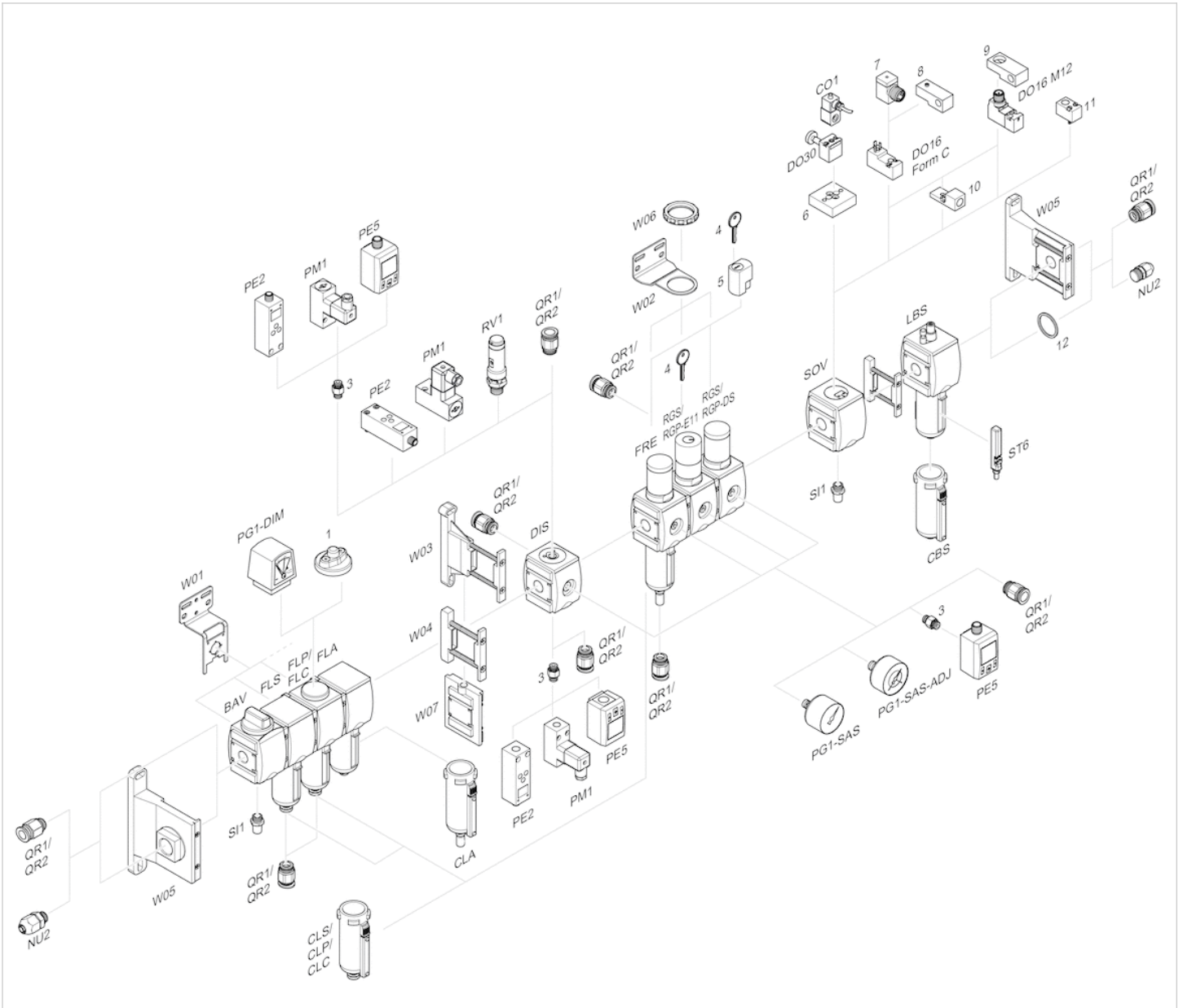
Pin assignments

Pin assignment M12x1



- 3: +/-
- 4: +/-

Accessories overview

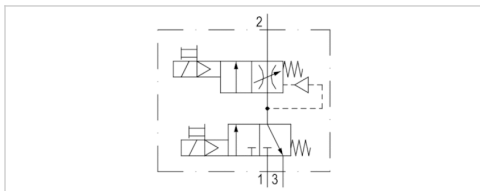


1 = contamination display

- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring



Filling unit, electrically operated, Series AS3-SSU

- With electrical priority circuit, adjustable filling time.
- Compressed air connection G 1/2
- Pipe connection
- Electrical connection: Plug, M12x1



| | |
|-------------------------------------------------|-------------------------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Parts | Filling valve, 3/2-directional valve, electrically operated |
| Nominal flow | 3500 l/min |
| Nominal flow 1 ▶ 2 | 3500 l/min |
| Nominal flow 2 ▶ 3 | 3200 l/min |
| Working pressure min./max. | 2.5 ... 10 bar |
| Medium | Compressed air Neutral gases |
| Medium temperature min./max. | -10 ... 50 °C |
| Ambient temperature min./max. | -10 ... 50 °C |
| Pilot | Internal |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class acc. to DIN EN 61140 with plug | IP65 |
| Duty cycle | 100 % |
| Weight | 0.924 kg |

Technical data

| Part No. |  | Compressed air connection input | Compressed air connection output | Operational voltage |
|------------|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------|---------------------|
| | | | | DC |
| R412007395 |  | G 1/2 | G 1/2 | 24 V |

| Part No. | Power consumption | Electrical connection | basic valve with electrical connector |
|------------|-------------------|-----------------------|---------------------------------------|
| | DC | Pilot valve | |
| R412007395 | 2 W | Plug, M12x1 | Basic valve with pilot valve |

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

Technical information

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

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

For unthrottled operation, the filling valve must be permanently electrically actuated.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p_1 is immediately applied.

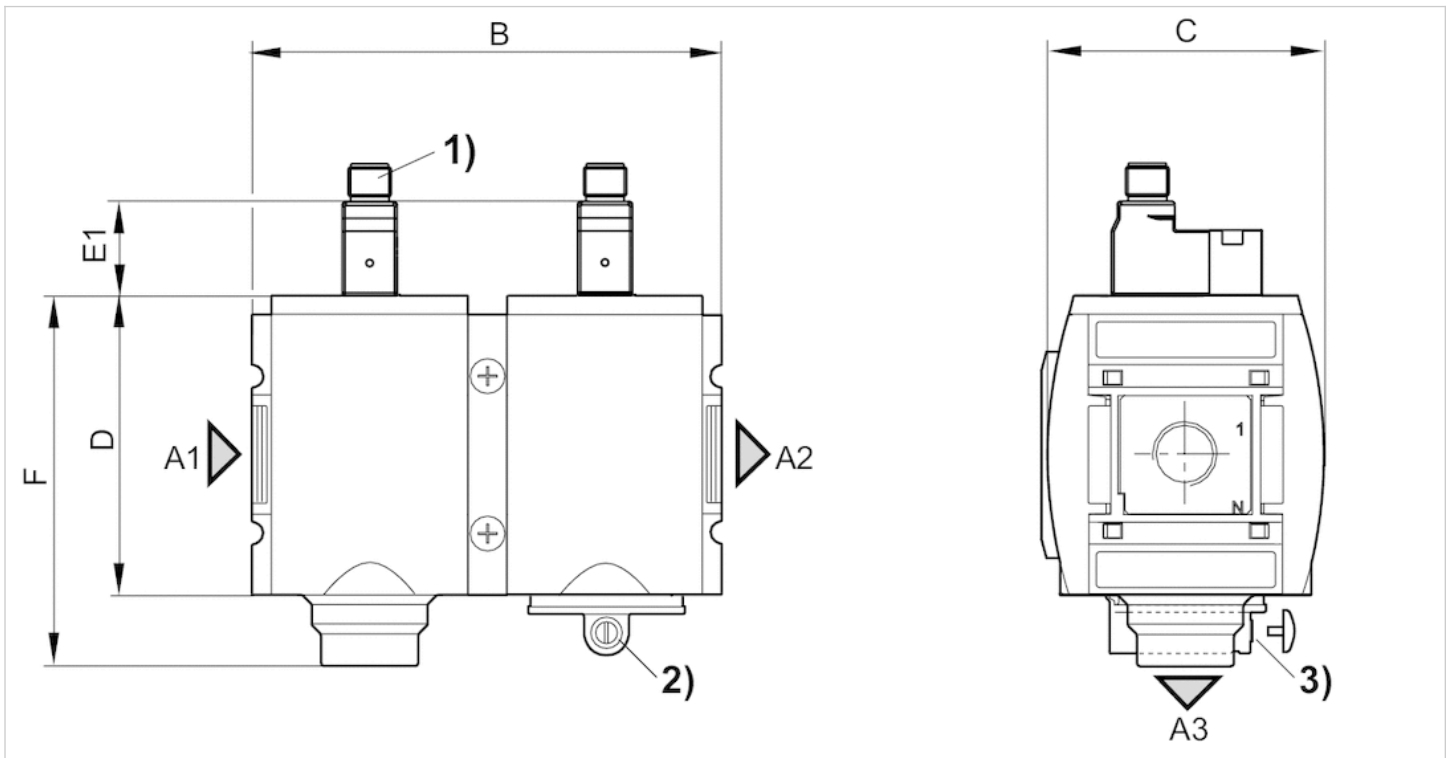
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions, with pilot valve, series DO16



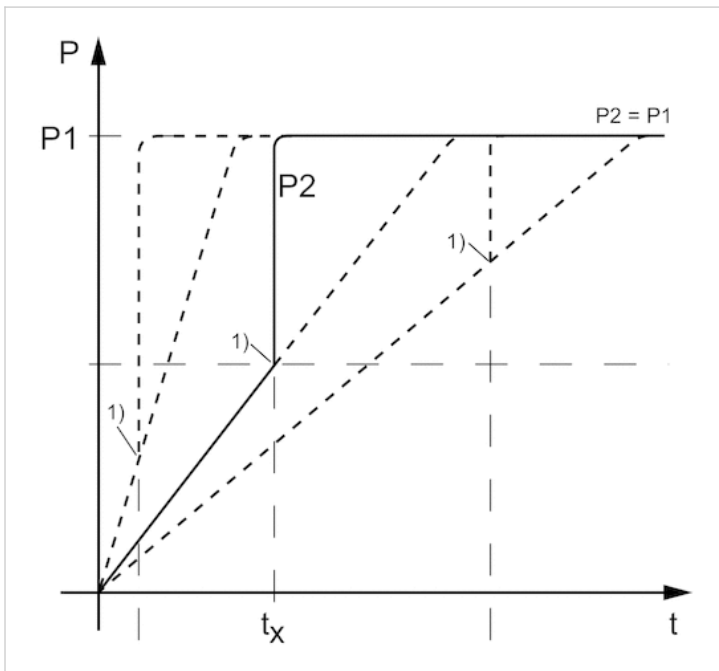
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Electr. connection: valve plug connector M12x1
- 2) Adjustment screw for filling time
- 3) Adjustk screw lock

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | F |
|-------|-------|-------|--------|----|----|----|----|
| G 1/2 | G 1/2 | G 1/2 | 125.75 | 74 | 80 | 39 | 99 |

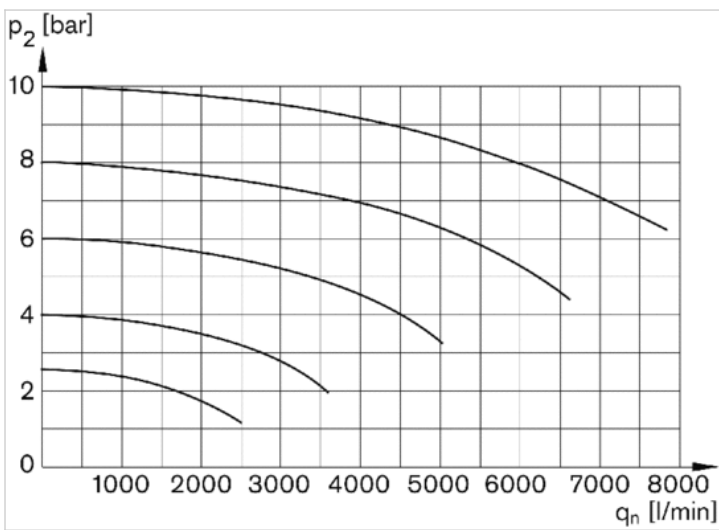
Diagrams

secondary pressure while filling



p1 = working pressure
 p2 = secondary pressure
 t = filling time
 tx = switchover time
 1) Electrically triggered switching point
 Filling time adjustable via adjustment screw (throttle)

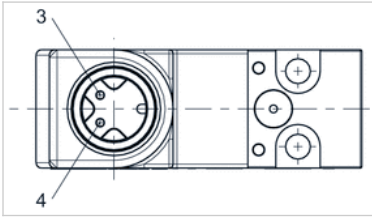
Flow rate characteristic



p2 = secondary pressure
 qn = nominal flow

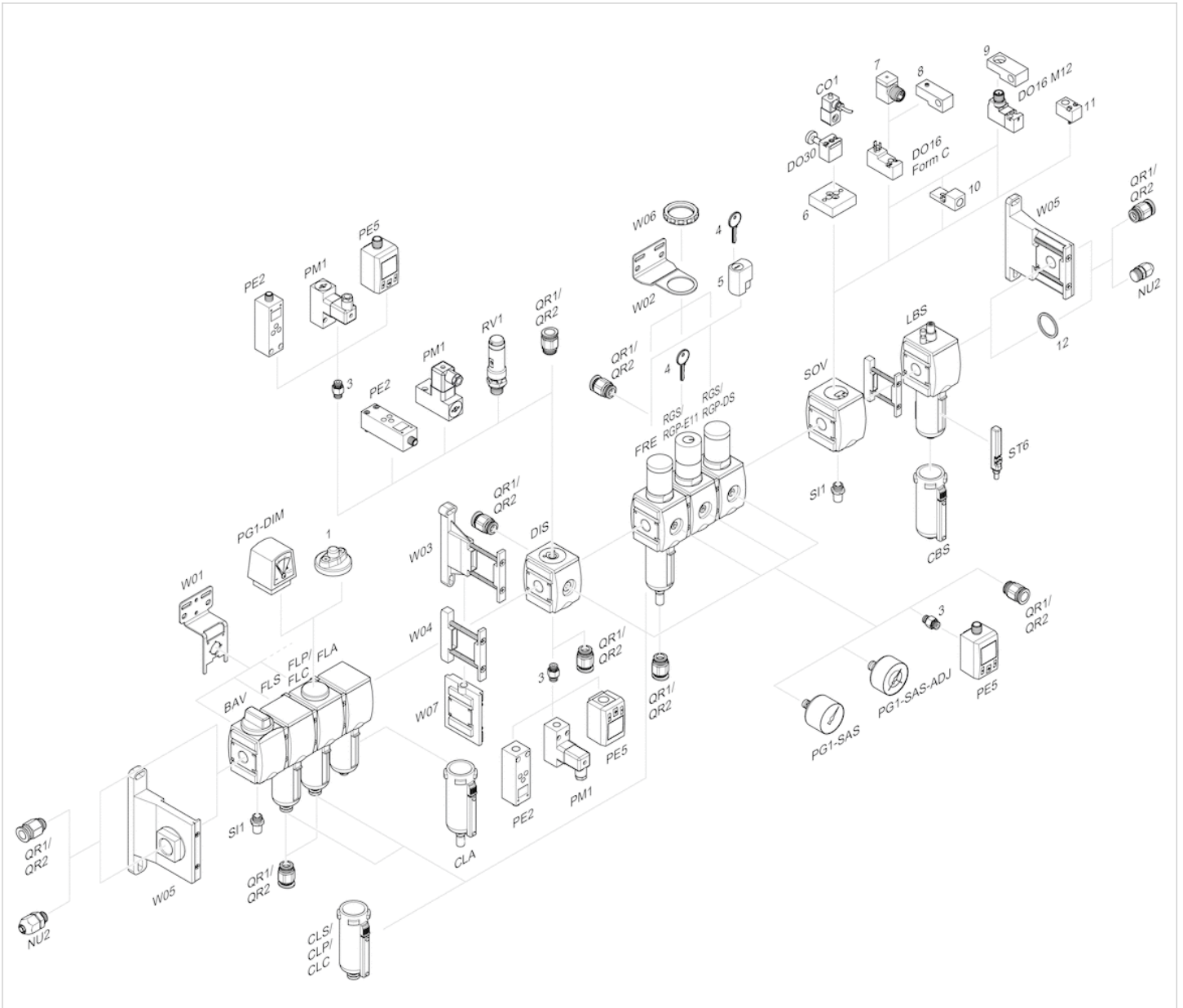
Pin assignments

Pin assignment M12x1



- 3: +/-
- 4: +/-

Accessories overview

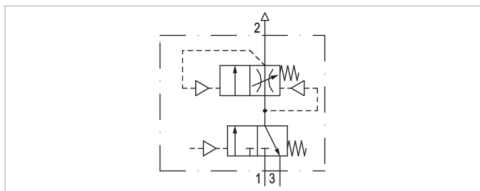


1 = contamination display

- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filling unit, pneumatically operated, Series AS3-SSU

- adjustable filling time
- Compressed air connection G 3/8 G 1/2
- Pipe connection



| | |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Pilot | Internal |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 0 ... 16 bar |
| Control pressure min./max. | 2.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Max. particle size | 40 µm |
| Weight | 0.924 kg |
| The delivered product varies from that in the illustration. See the drawing for an exact description. | |

Technical data

| Part No. | Port | Pilot connection | Exhaust | Flow | Flow | Flow | |
|------------|-------|------------------|---------|------------|------------|------------|----|
| | | | | Qn | Qn 1►2 | Qn 2►3 | |
| R412007276 | G 3/8 | G 1/8 | G 1/2 | 3500 l/min | 3500 l/min | 3200 l/min | - |
| R412007281 | G 1/2 | G 1/8 | G 1/2 | 3500 l/min | 3500 l/min | 3200 l/min | - |
| R412007289 | G 1/2 | G 1/8 | G 1/2 | 3500 l/min | 3500 l/min | 3200 l/min | 1) |

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

1) With adjustment screw lock

Technical information

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

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

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.

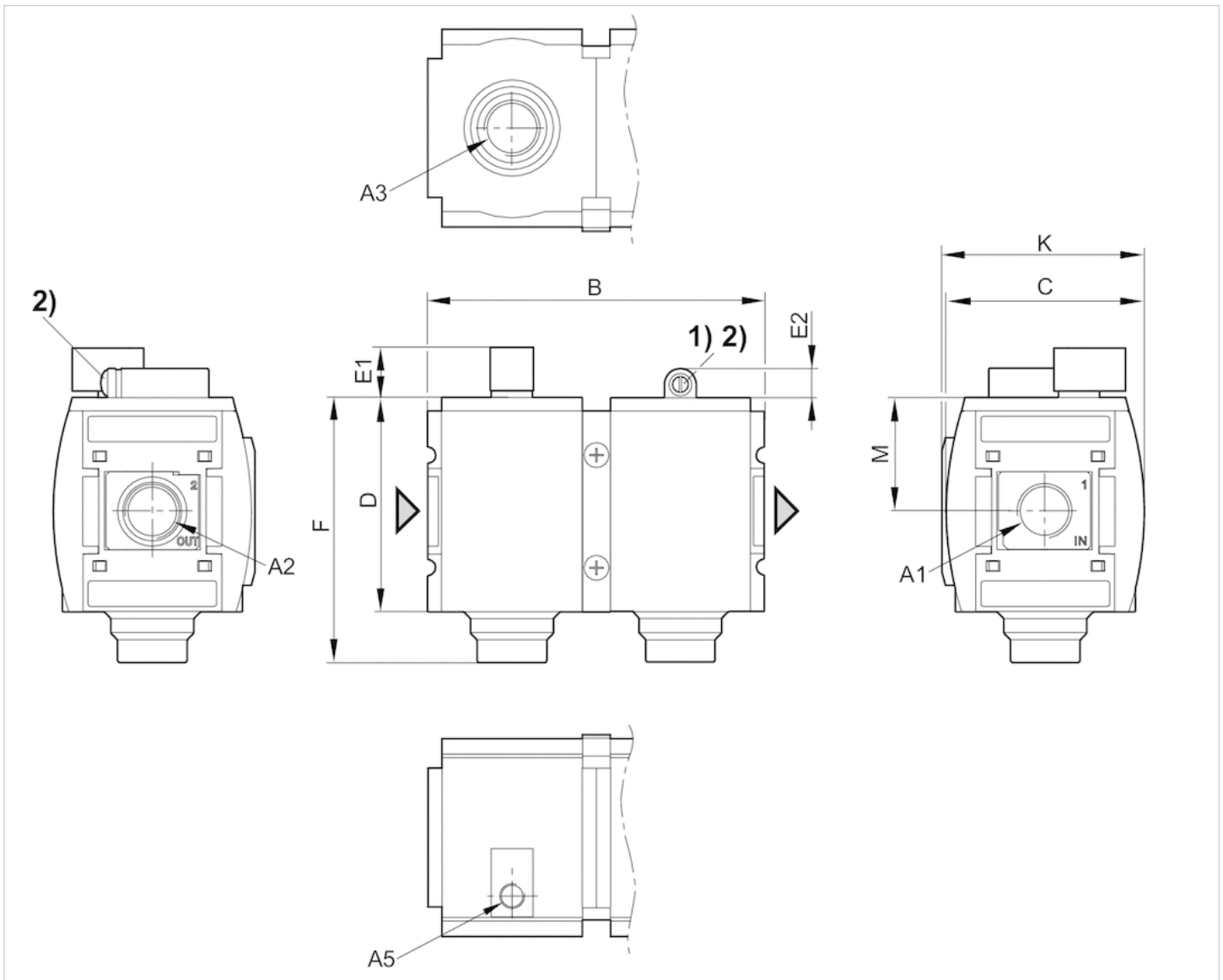
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



A1 = input

A2 = output

A3 = ventilation port

A5 = control pressure connection

1) Adjustment screw for filling time

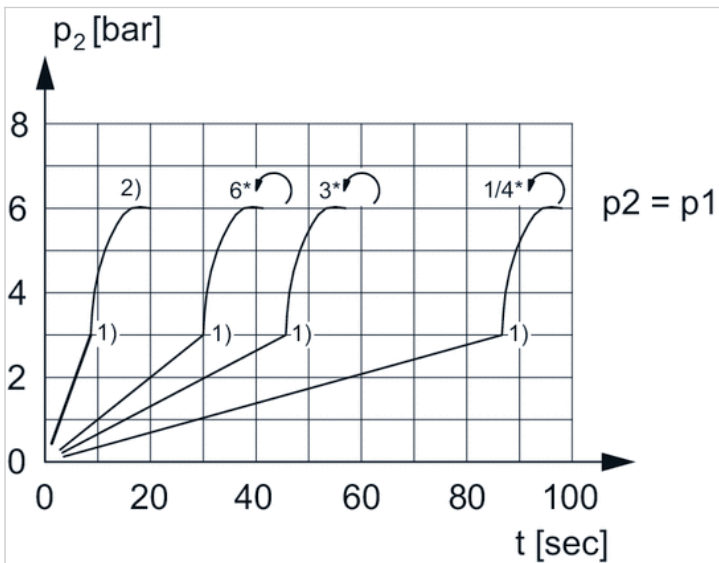
2) Adjustment screw lock

Dimensions in mm

| A1 | A2 | A3 | A5 | B | C | D | E1 | E2 | F | K | M |
|-------|-------|-------|-------|--------|----|----|------|----|----|------|------|
| G 3/8 | G 3/8 | G 1/2 | G 1/8 | 125.75 | 74 | 80 | 18.5 | 11 | 99 | 75.5 | 42.5 |
| G 1/2 | G 1/2 | G 1/2 | G 1/8 | 125.75 | 74 | 80 | 18.5 | 11 | 99 | 75.5 | 42.5 |

Diagrams

Secondary pressure while filling



p1 = working pressure

p2 = secondary pressure

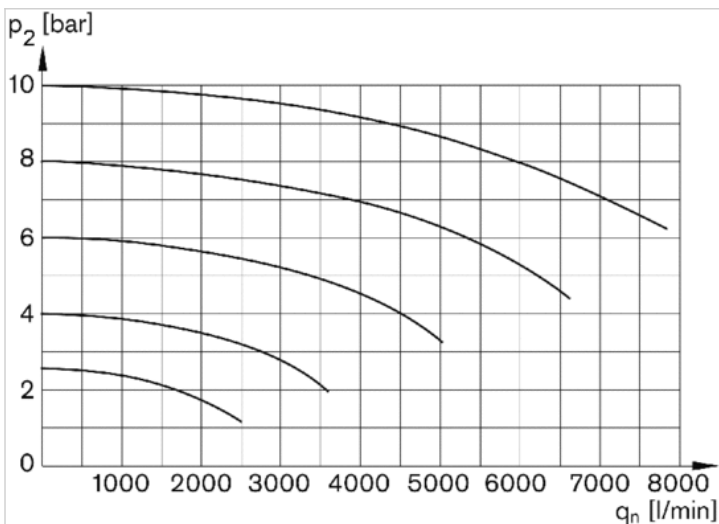
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

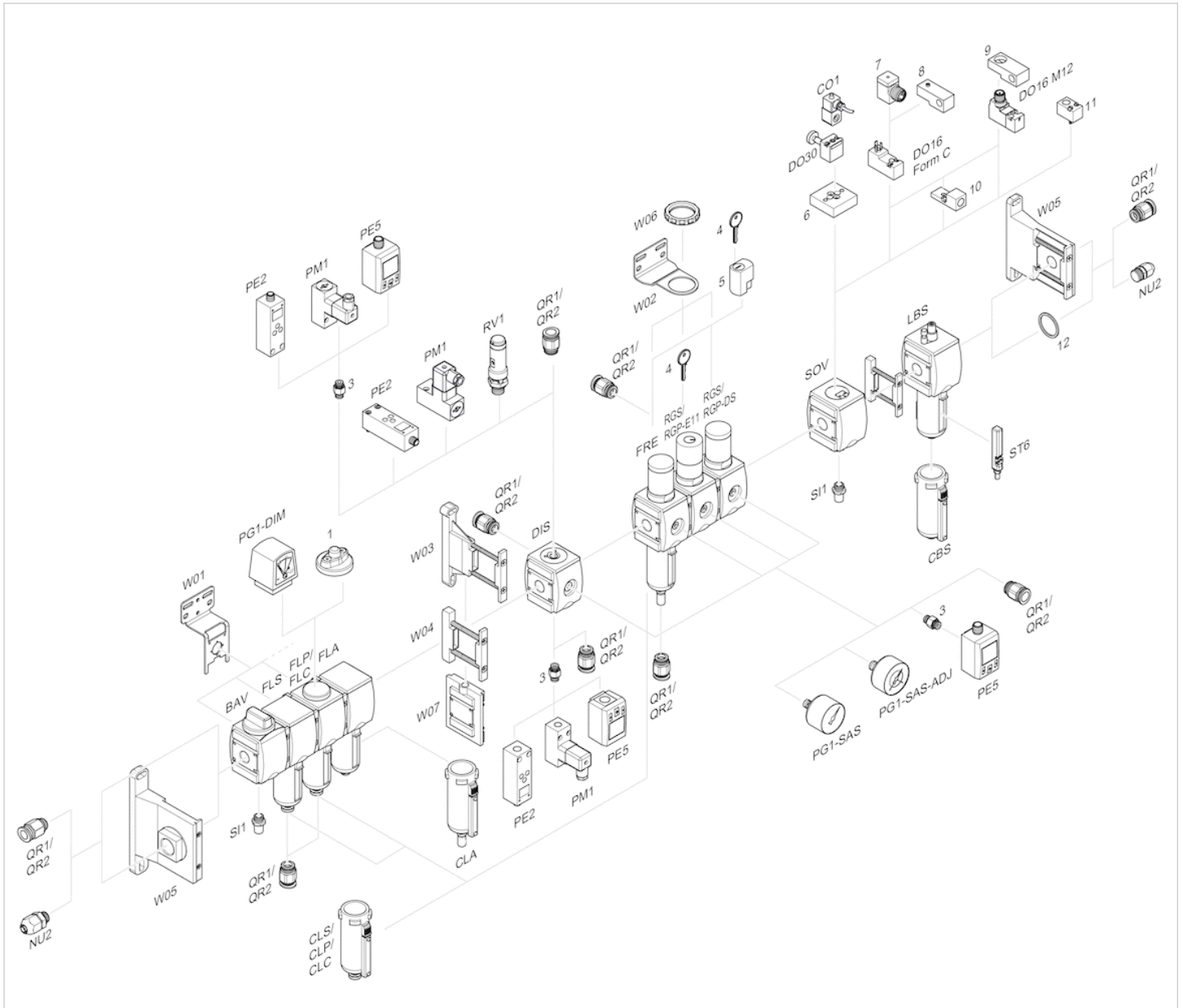
Flow rate characteristic



p2 = secondary pressure

qn = nominal flow

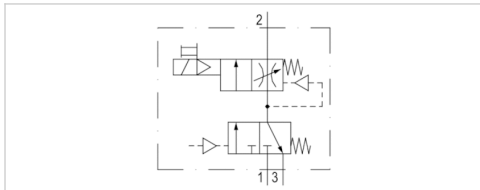
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filling unit, pneumatically operated, Series AS3-SSU

- With electrical priority circuit, adjustable filling time.
- Compressed air connection G 1/2
- Pipe connection



| | |
|---------------------------------------------------------------------------|--------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Pilot | Internal |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 0 ... 16 bar |
| Control pressure min./max. | 2.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Max. particle size | 25 µm |
| Duty cycle | 100 % |
| Protection class according to EN 60529:2000, without electrical connector | IP65 |
| Weight | 0.924 kg |

The delivered product varies from that in the illustration. See the drawing for an exact description.

Technical data

| Part No. | Port | Exhaust | Flow | Flow | Flow |
|------------|-------|---------|----------------|--------------------|--------------------|
| | | | Q _n | Q _n 1→2 | Q _n 2→3 |
| R412007393 | G 1/2 | G 1/2 | 3500 l/min | 3500 l/min | 3200 l/min |

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

Technical information

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

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p₁ is immediately applied.

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

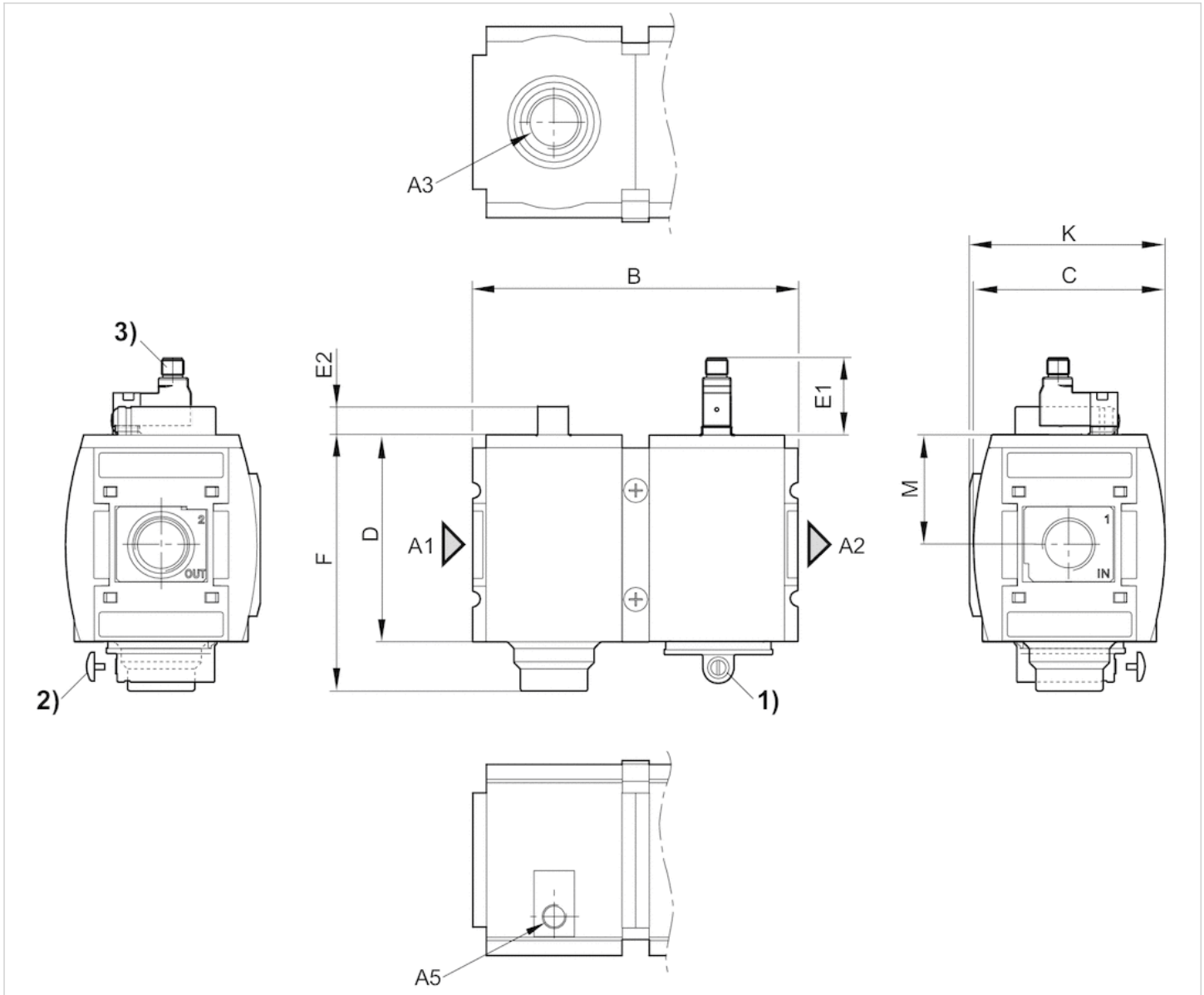
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

| | |
|------------------|---------------|
| Material | |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



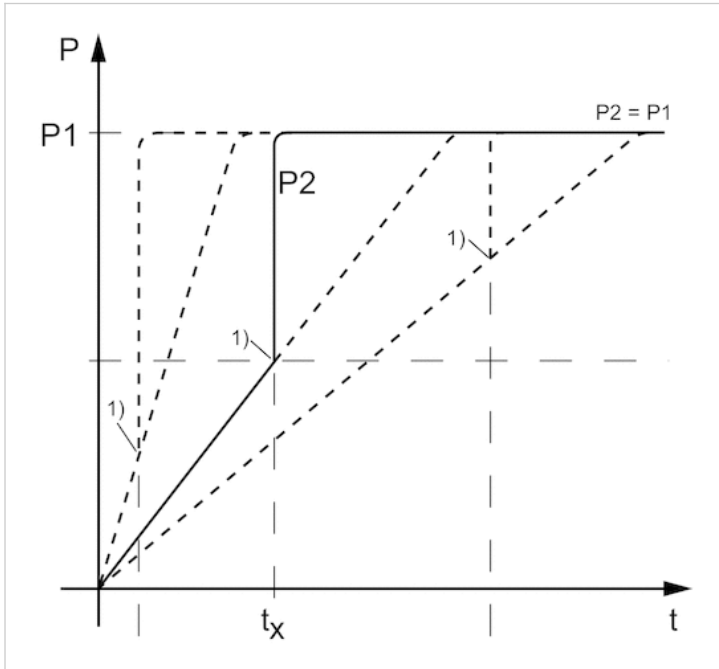
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = control pressure connection
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) For valve plug connectors M12x1

Dimensions in mm

| A1 | A2 | A3 | A5 | B | C | D | E1 | F | K | M |
|-------|-------|-------|-------|-----|----|----|----|----|------|------|
| G 1/2 | G 1/2 | G 1/2 | G 1/8 | 126 | 74 | 80 | 39 | 99 | 75.5 | 42.5 |

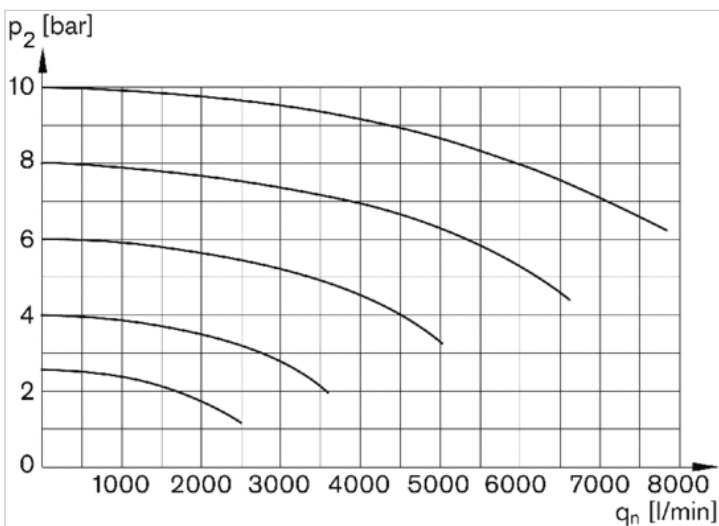
Diagrams

Secondary pressure while filling



- p1 = working pressure
 - p2 = secondary pressure
 - t = filling time
 - tx = switchover time
 - 1) Electrically triggered switching point
- Filling time adjustable via adjustment screw (throttle)

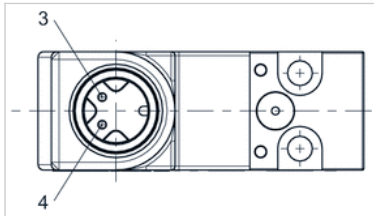
Flow rate characteristic



- p2 = secondary pressure
- qn = nominal flow

Pin assignments

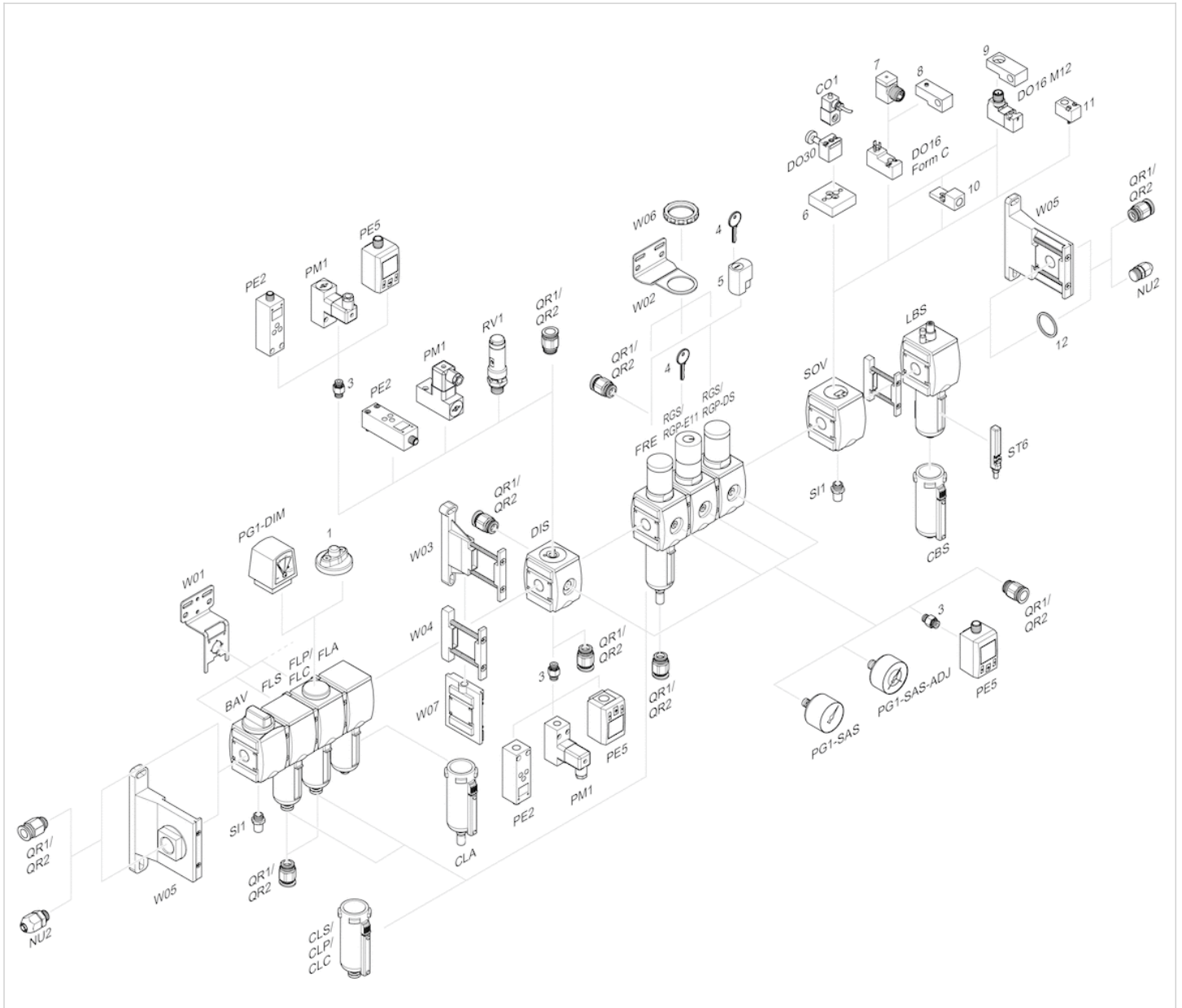
Pin assignment M12x1



3: +/-

4: +/-

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filling valve, Series AS3-SSV

- adjustable filling time
- Compressed air connection G 3/8 G 1/2



Version

Sealing principle

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Weight

Poppet valve, Can be assembled into blocks

Soft sealing

2.5 ... 16 bar

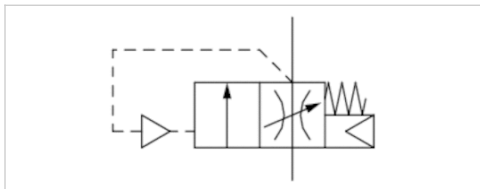
-10 ... 50 °C

-10 ... 50 °C

Compressed air Neutral gases

40 µm

0.43 kg



Technical data

| Part No. | Port | Flow | |
|------------|-------|------------|----|
| | | Qn | |
| R412007272 | G 3/8 | 4500 l/min | |
| R412007273 | G 1/2 | 4500 l/min | |
| R412007275 | G 1/2 | 4500 l/min | 1) |

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

1) With adjustment screw lock.

Technical information

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

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

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

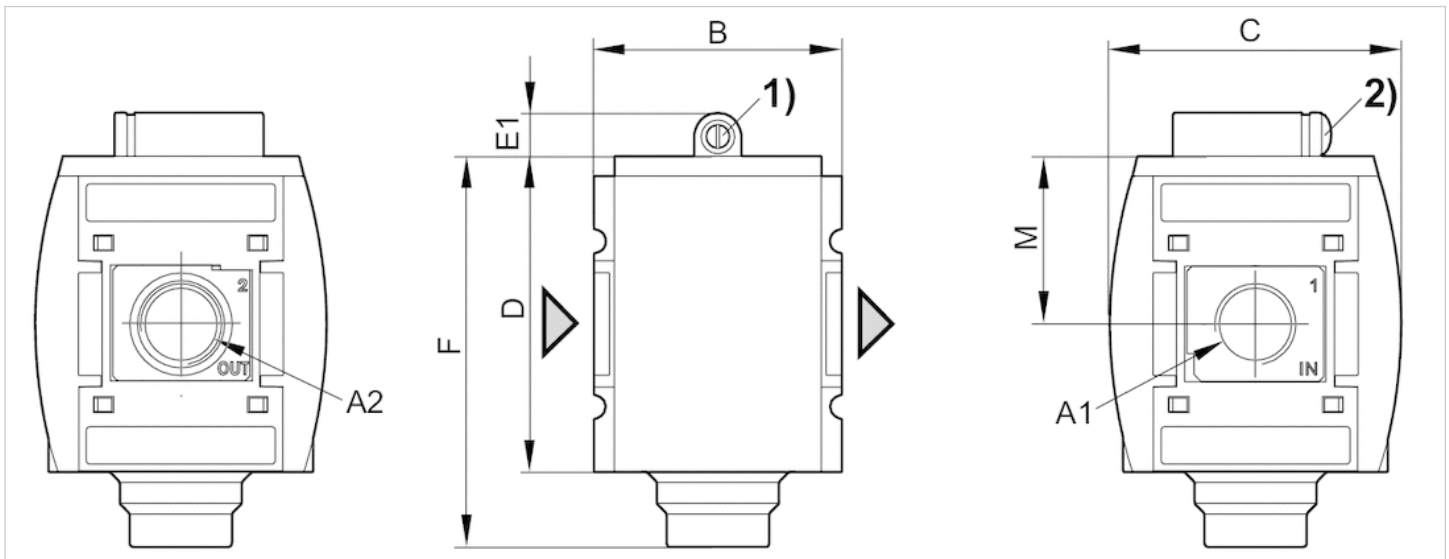
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



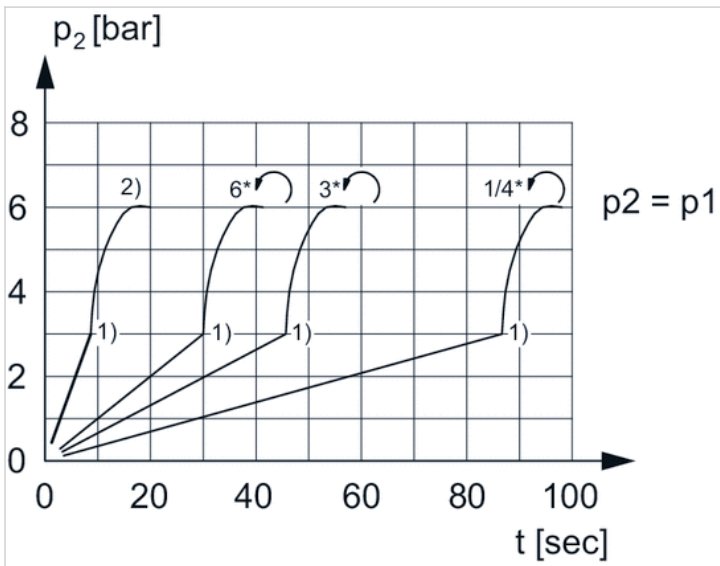
- A1 = input
- A2 = output
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock

Dimensions in mm

| A1 | A2 | B | C | D | E1 | F | M |
|-------|-------|----|----|----|----|----|------|
| G 3/8 | G 3/8 | 63 | 74 | 80 | 11 | 99 | 42.5 |
| G 1/2 | G 1/2 | 63 | 74 | 80 | 11 | 99 | 42.5 |

Diagrams

secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

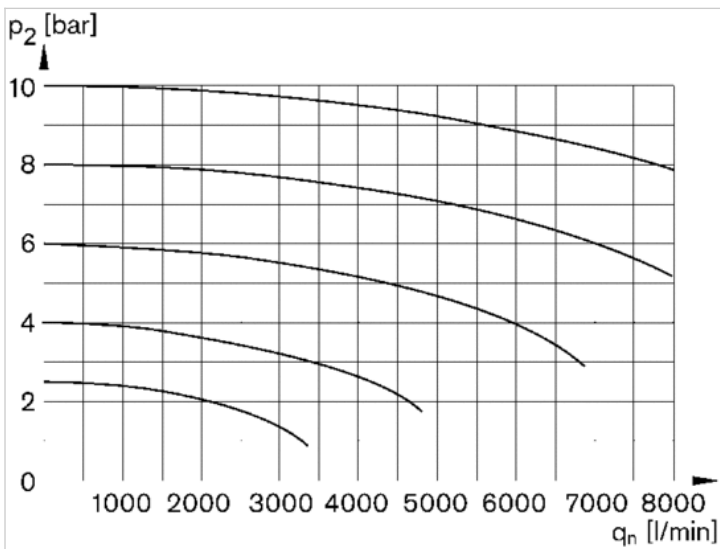
t = filling time, adjustable via adjustment screw (throttle)

1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p_1$ (50%)

2) Throttle fully opened

* Adjustment screw rotations

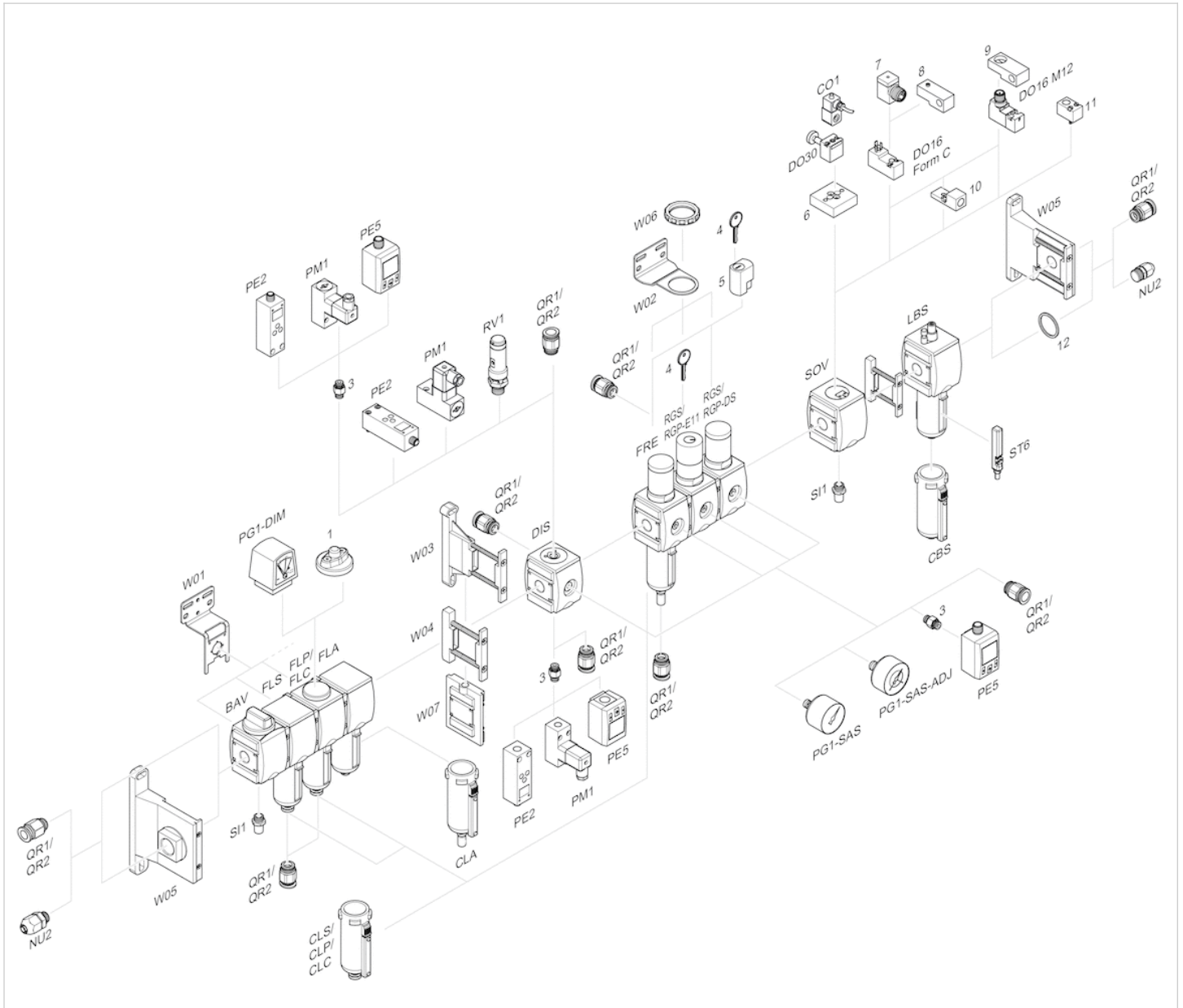
Flow rate characteristic



p_2 = secondary pressure

q_n = nominal flow

Accessories overview



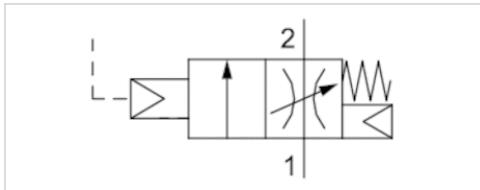
- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filling valve, pneumatically operated, Series AS3-SSV

- With pneumatic priority circuit, adjustable filling time.
- Compressed air connection G 3/8 G 1/2
- Pipe connection



| | |
|-------------------------------|--------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 2.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Max. particle size | 40 µm |
| Weight | 0.49 kg |



Technical data

| Part No. | Port | Pilot connection | Flow | Flow |
|------------|-------|------------------|------------|------------|
| | | | Qn | Qn 1>2 |
| R412007311 | G 3/8 | G 1/8 | 4400 l/min | 4400 l/min |
| R412007312 | G 1/2 | G 1/8 | 4400 l/min | 4400 l/min |

Nominal flow Qn at p1 = 6.3 bar and Δp = 1 bar

Technical information

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

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

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 is immediately applied.

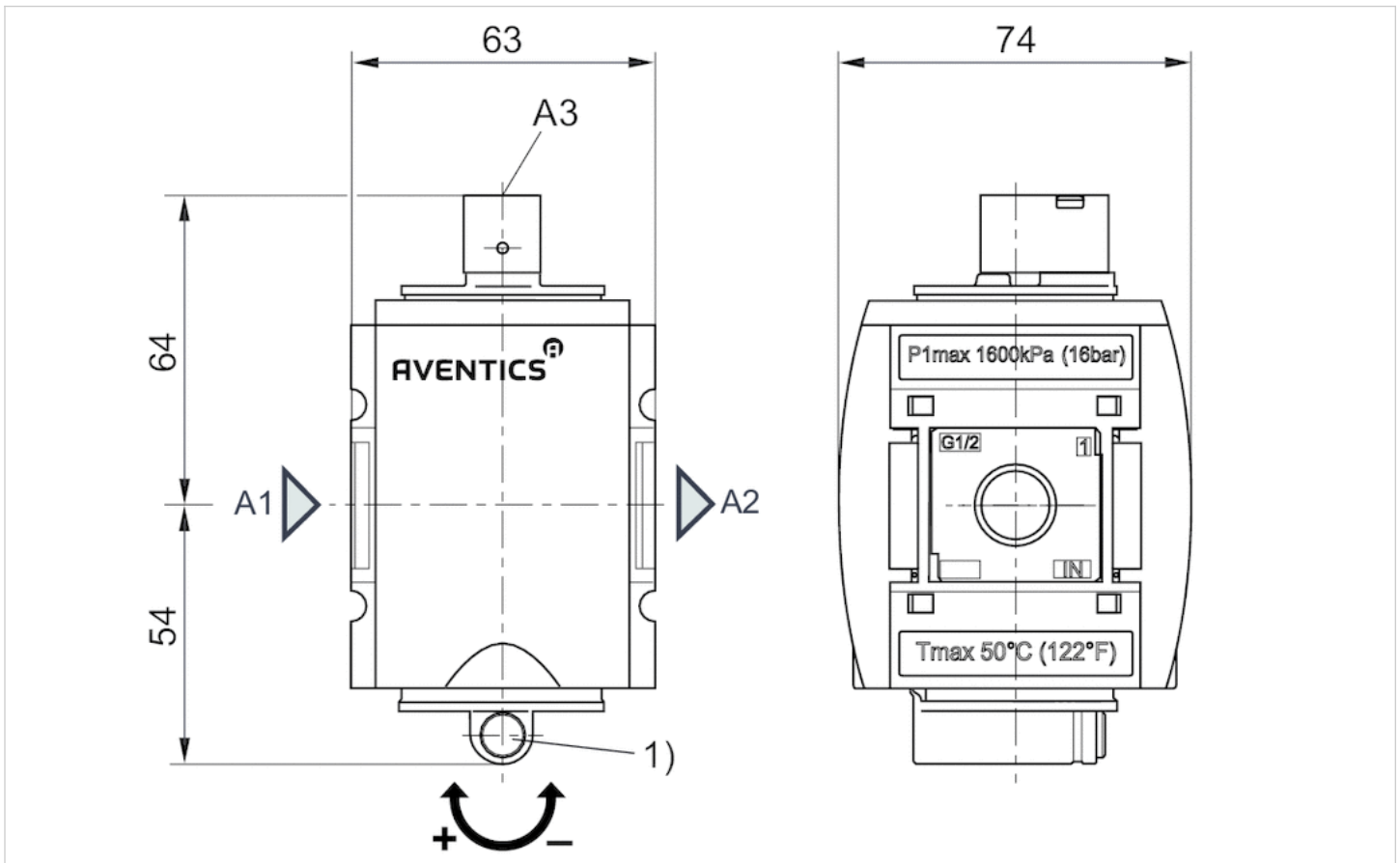
For unthrottled operation, the filling valve must be permanently electrically actuated.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



A1 = input

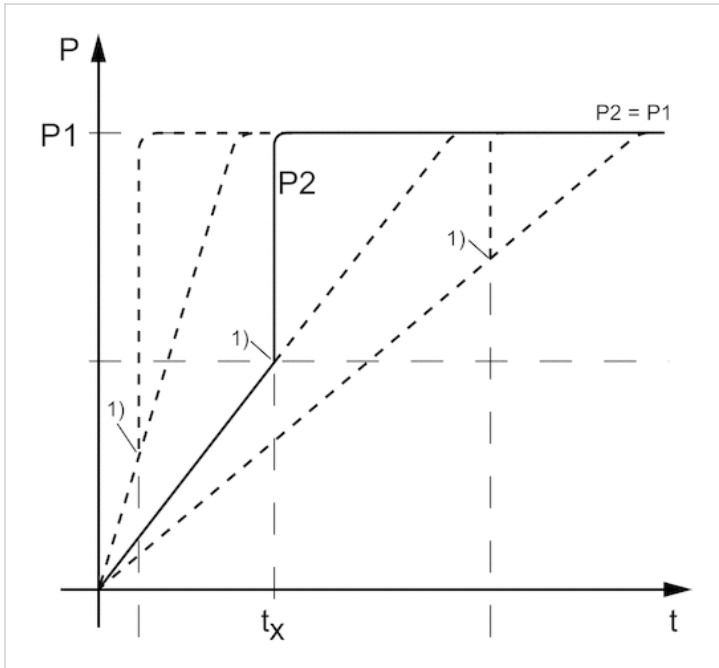
A2 = output

A3 = control pressure connection

1) Adjustment screw for filling time

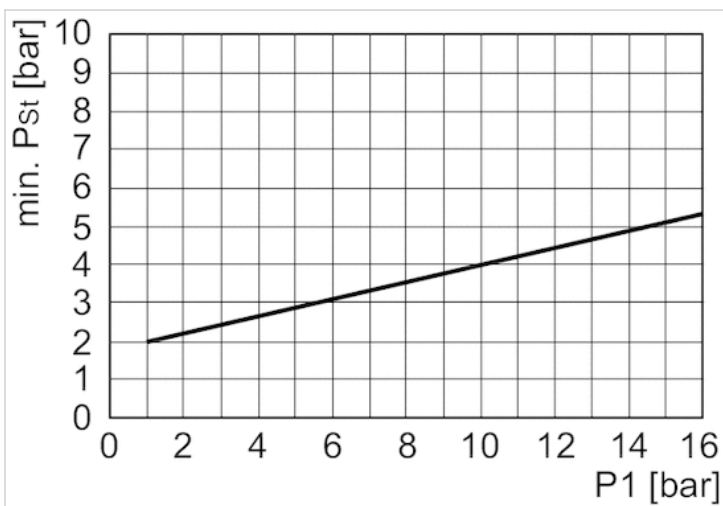
Diagrams

secondary pressure while filling



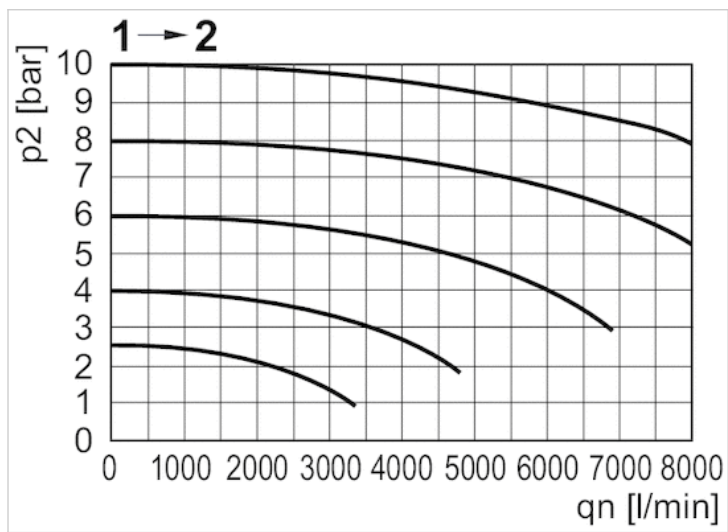
p1 = working pressure
 p2 = output pressure
 t = filling time
 tx = switchover time
 1) Pneumatically triggered switching point
 Filling time adjustable via adjustment screw (throttle)

control pressure characteristic



p1 = working pressure
 PS = control pressure

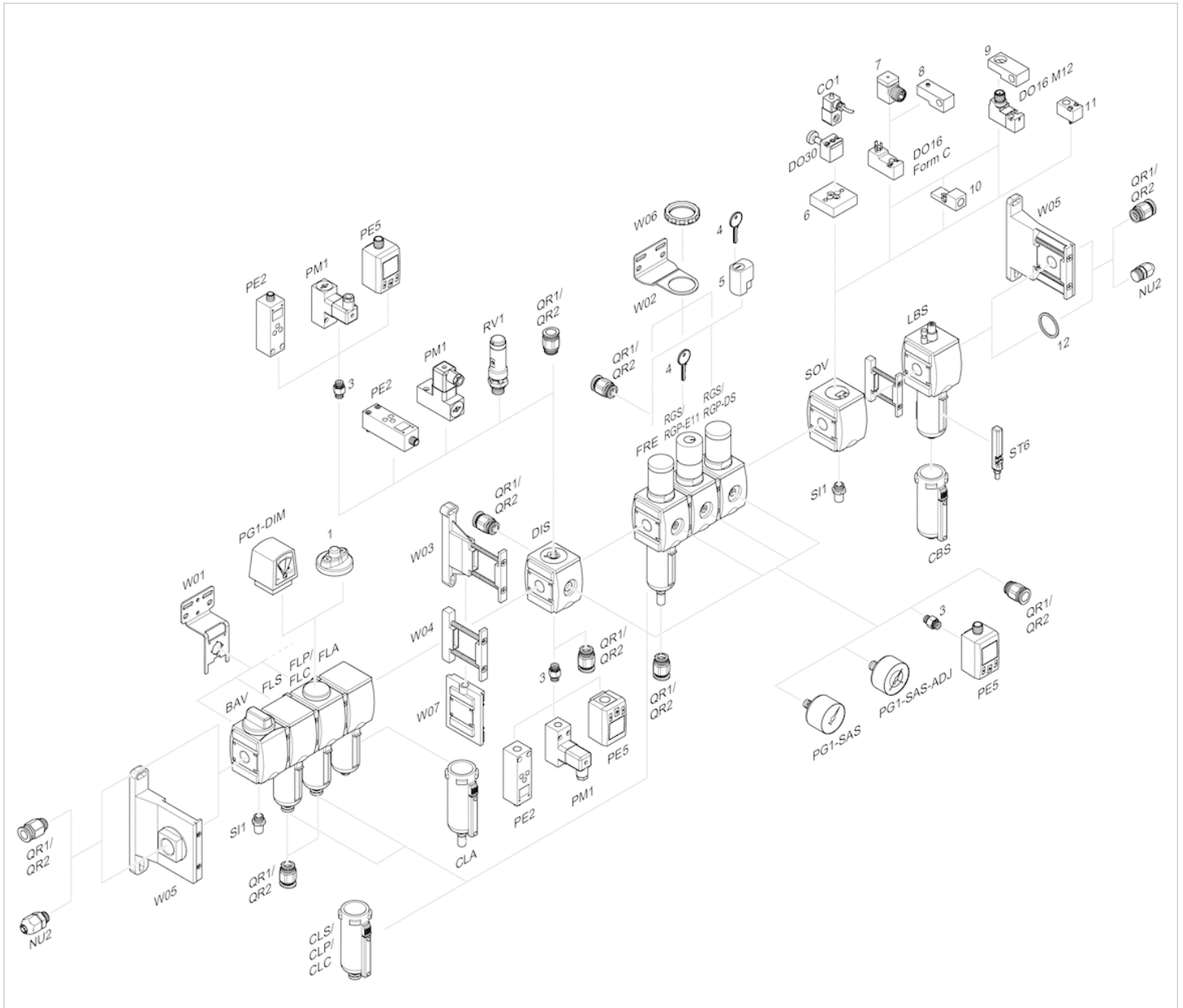
Flow rate characteristic



p2 = secondary pressure

qn = nominal flow

Accessories overview



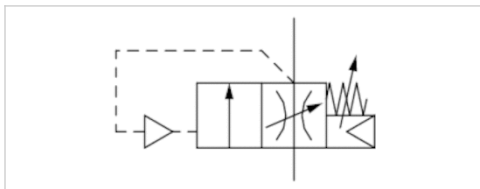
- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filling valve, mechanically adjustable, series R53-SSV

- Adjustable filling time and change-over pressure.
- Compressed air connection G 1/2



| | |
|-------------------------------|--------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 2.5 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Max. particle size | 40 µm |
| Weight | 0.43 kg |



Technical data

| Part No. | Port | Pilot connection | Flow |
|------------|-------|------------------|------------|
| | | | Qn |
| R412007246 | G 1/2 | G 3/8 | 4500 l/min |

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

Technical information

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

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Adjustable filling time and change-over pressure.

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.

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

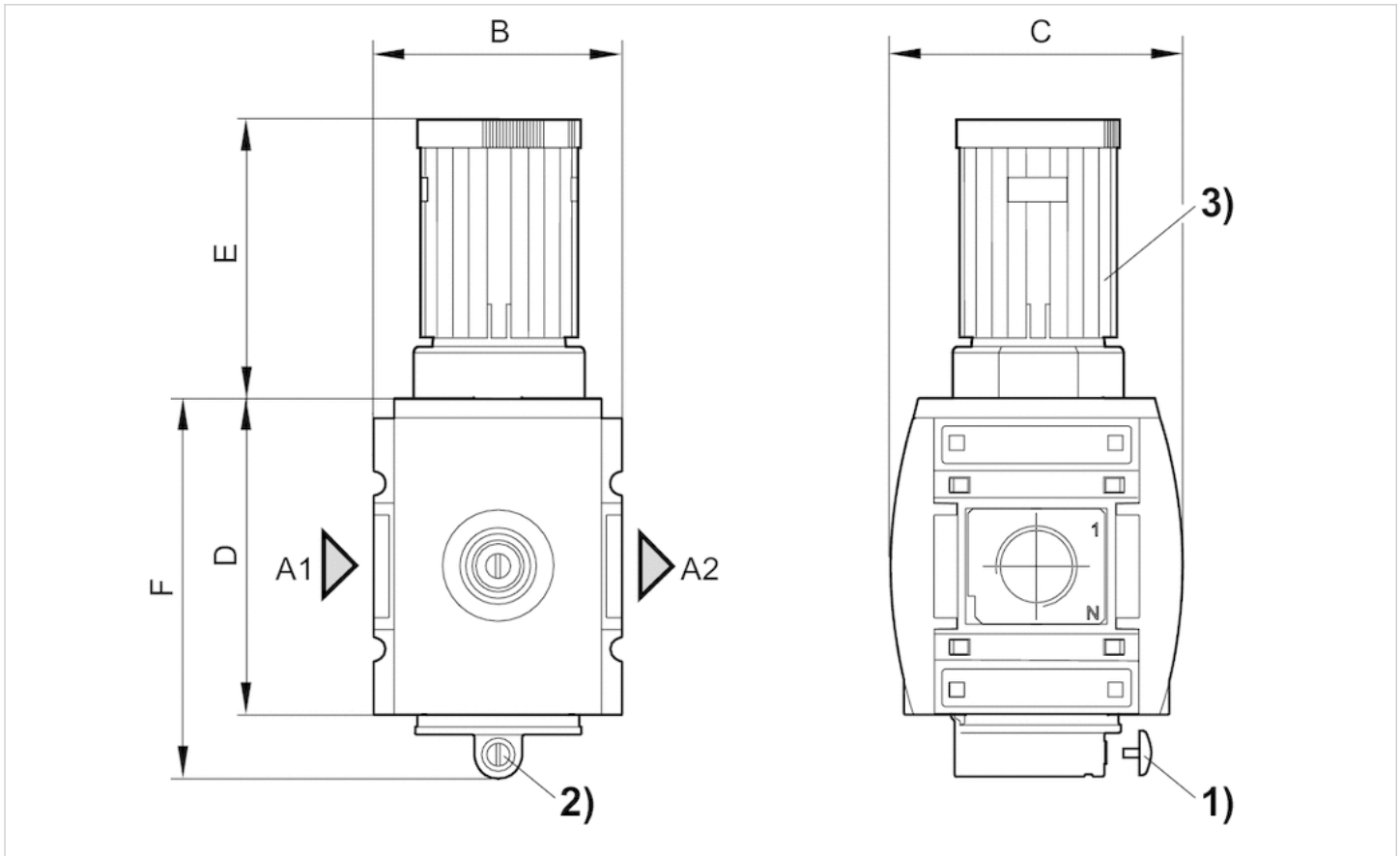
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |

| | |
|------------------|--------------------------------|
| Material | |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



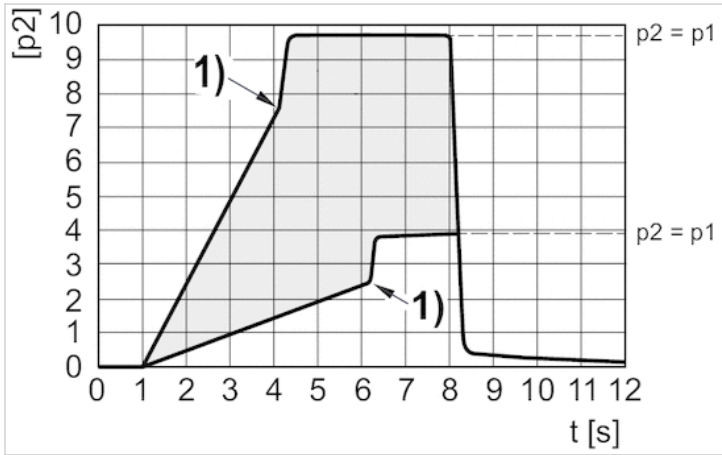
- A1 = input
- A2 = output
- 1) Adjustment screw lock
- 2) Adjustment screw for filling time
- 3) hand wheel for change-over pressure, lockable

Dimensions in mm

| A1 | A2 | B | C | D | E | F |
|-------|-------|----|----|----|------|----|
| G 1/2 | G 1/2 | 63 | 74 | 80 | 63.5 | 96 |

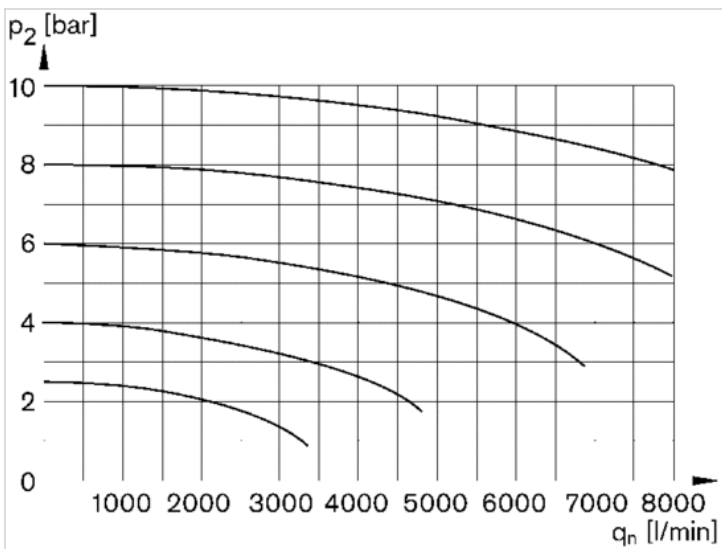
Diagrams

secondary pressure while filling



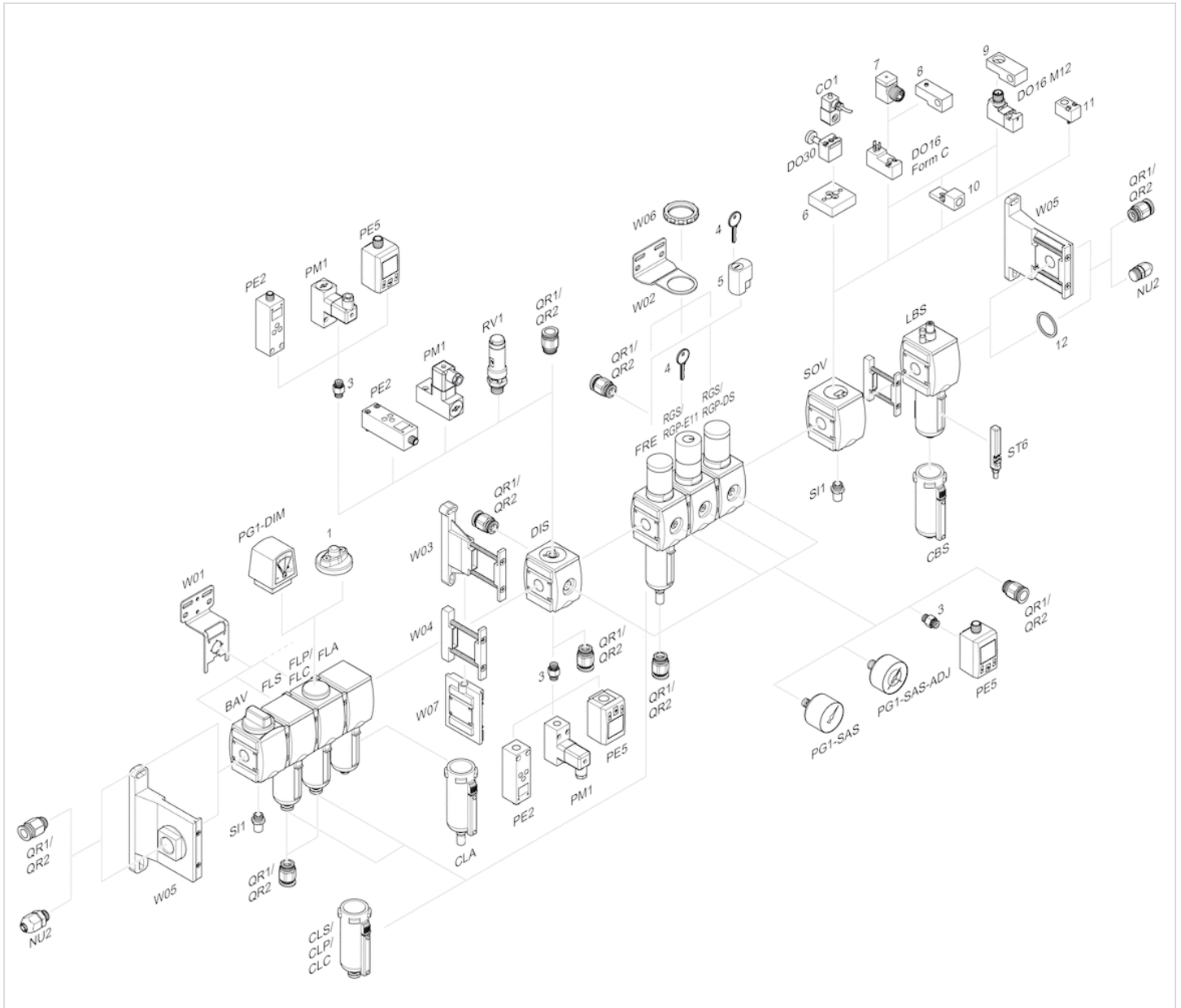
- p1 = working pressure
- p2 = secondary pressure
- t = filling time, adjustable via adjustment screw (throttle)
- Change-over pressure individually adjustable via handwheel
- 1) Switching point: adjustable filling time and change-over pressure

Flow rate characteristic



- p2 = secondary pressure
- qn = nominal flow

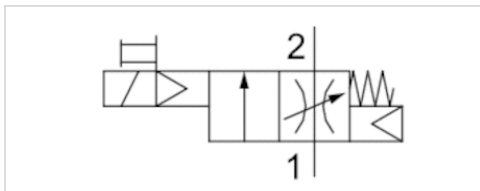
Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Filling valve, electrically operated, series AS3-SSV

- With electrical priority circuit, adjustable filling time.
- Compressed air connection G 1/2 G 3/8
- Pipe connection
- Electrical connection: Plug, M12x1



| | |
|-------------------------------------------------|-------------------------------------------------------------------------|
| Version | Poppet valve with elect. priority circuit, Can be assembled into blocks |
| Parts | Filling valve |
| Nominal flow | 4500 l/min |
| Working pressure min./max. | 2.5 ... 10 bar |
| Medium | Compressed air Neutral gases |
| Medium temperature min./max. | -10 ... 50 °C |
| Ambient temperature min./max. | -10 ... 50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class acc. to DIN EN 61140 with plug | IP65 |
| Duty cycle | 100 % |
| Weight | 0.43 kg |

Technical data

| Part No. | Compressed air connection input | Compressed air connection output | Operational voltage |
|------------|---------------------------------|----------------------------------|---------------------|
| | | | DC |
| R412007389 | G 1/2 | G 1/2 | 24 V |
| R412007390 | G 3/8 | G 3/8 | 24 V |

| Part No. | Electrical connection |
|------------|-----------------------|
| | Pilot valve |
| R412007389 | Plug, M12x1 |
| R412007390 | Plug, M12x1 |

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

Technical information

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

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

The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions to be avoided.

Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p_1 is immediately applied.

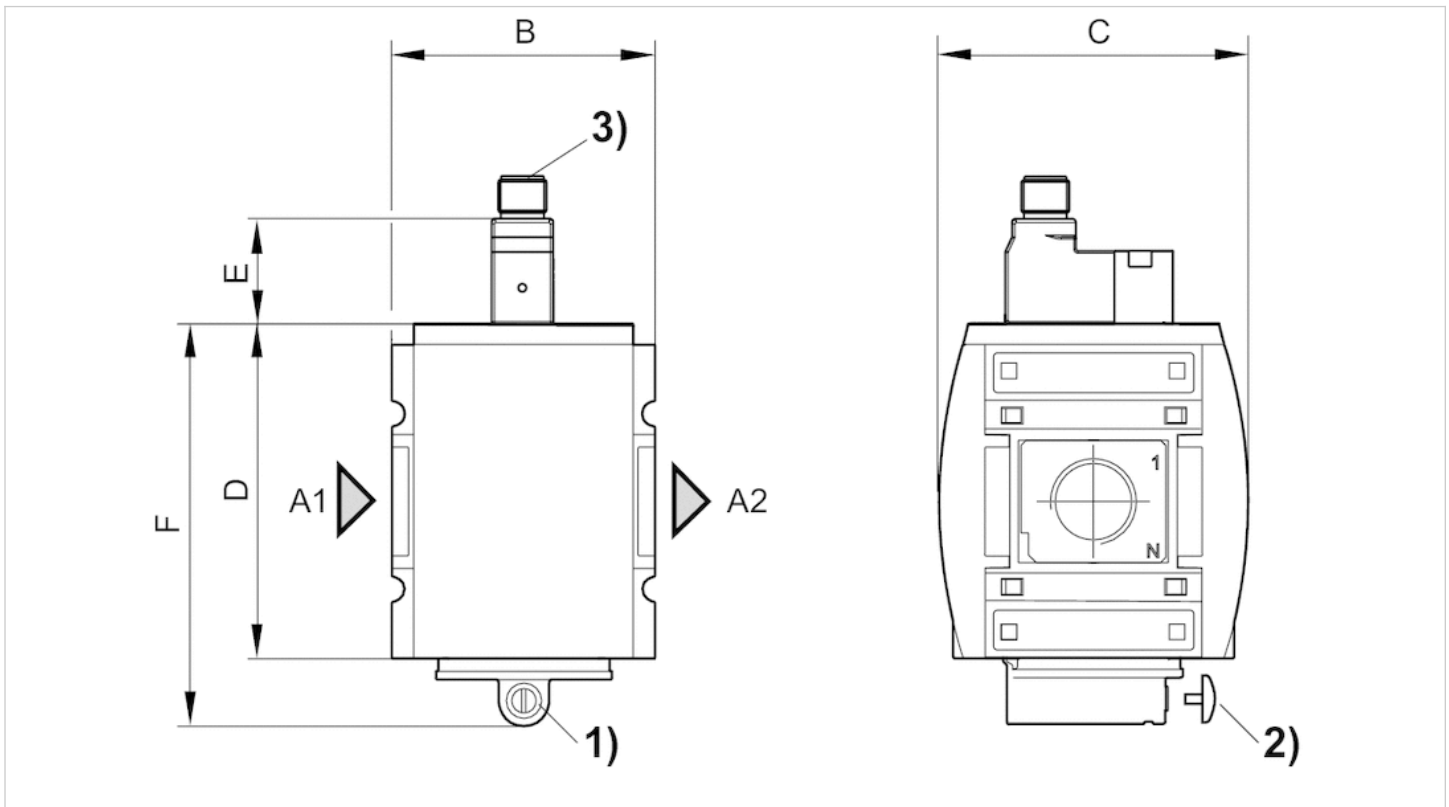
For unthrottled operation, the filling valve must be permanently electrically actuated.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



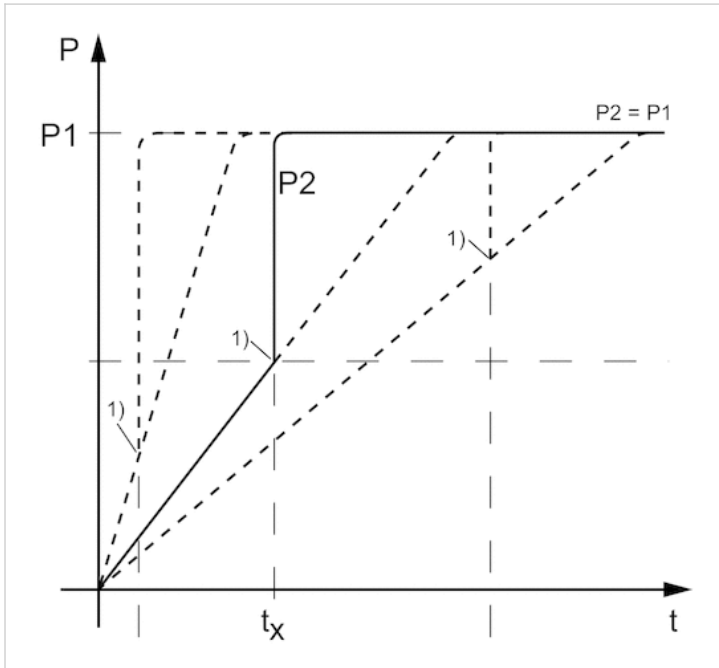
- A1 = input
- A2 = output
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) For valve plug connectors M12x1

Dimensions in mm

| A1 | A2 | B | C | D | E | F |
|-------|-------|----|----|----|----|----|
| G 1/2 | G 1/2 | 63 | 74 | 80 | 39 | 96 |
| G 3/8 | G 3/8 | 63 | 74 | 80 | 39 | 96 |

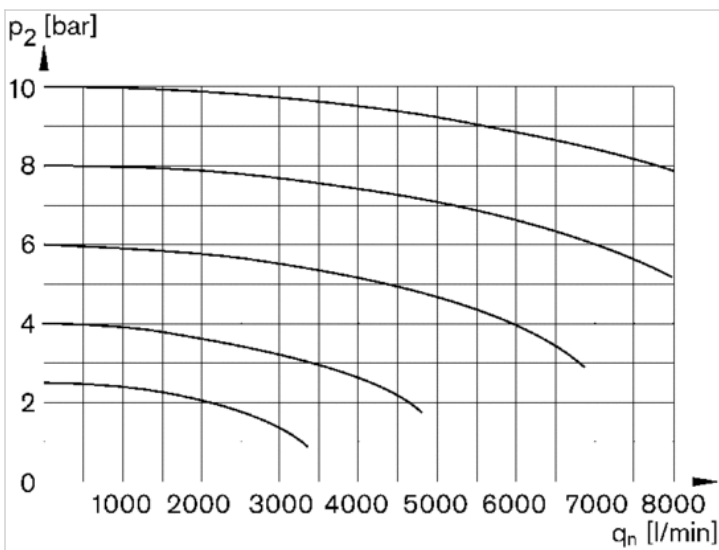
Diagrams

secondary pressure while filling



- p_1 = working pressure
 - p_2 = secondary pressure
 - t = filling time
 - t_x = switchover time
 - 1) Electrically triggered switching point
- Filling time adjustable via adjustment screw (throttle)

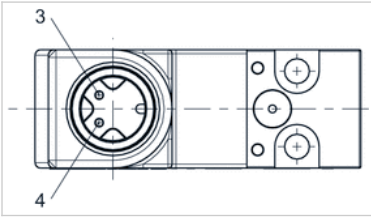
Flow rate characteristic



- p_2 = secondary pressure
- q_n = nominal flow

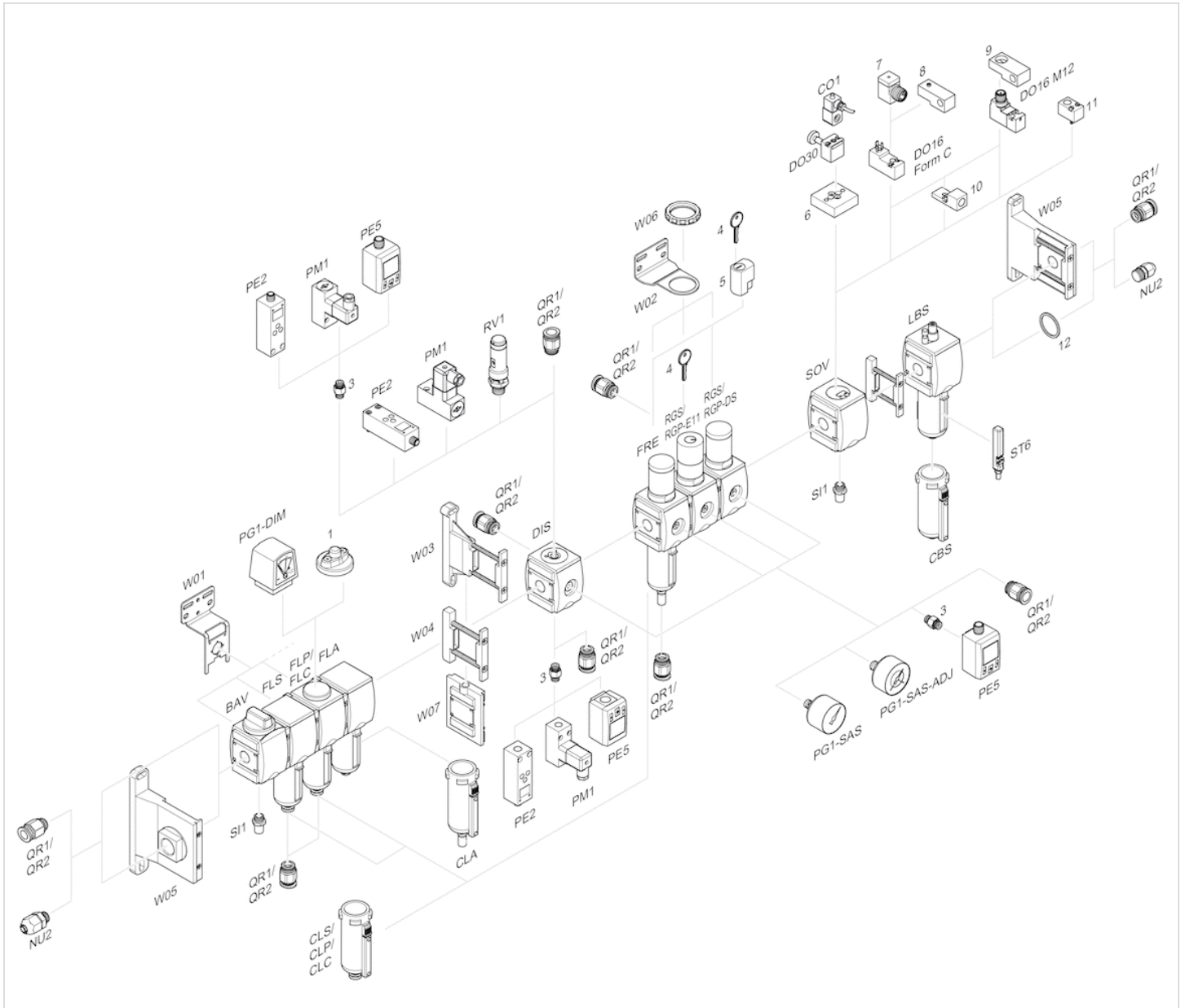
Pin assignments

Pin assignment M12x1



- 3: +/-
- 4: +/-

Accessories overview



1 = contamination display

- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

2/2-directional valve, electrically operated, Series AS3-SOV

- Compressed air connection G 1/2 G 3/8











- Pipe connection

- NC NO



| | |
|-------------------------------------------------|----------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Parts | 2/2-directional valve, electrically operated |
| Nominal flow | 4500 l/min |
| Working pressure min./max. | See table below |
| Medium | Compressed air Neutral gases |
| Medium temperature min./max. | -10 ... 50 °C |
| Ambient temperature min./max. | -10 ... 50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class acc. to DIN EN 61140 with plug | IP65 |
| Duty cycle | 100 % |
| Weight | See table below |

Technical data

| Part No. | | | | Compressed air connection input | Compressed air connection output |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----|---------------------------------|----------------------------------|
| R415011113 |  |  | NC | G 1/2 | G 1/2 |
| R412007341 |  |  | NC | G 3/8 | G 3/8 |
| R412007342 |  |  | NC | G 3/8 | G 3/8 |
| R412007343 |  |  | NC | G 1/2 | G 1/2 |
| R414012347 |  |  | NO | G 1/2 | G 1/2 |

| Part No. | Operational voltage | Power consumption | Working pressure min./max. |
|------------|---------------------|-------------------|----------------------------|
| | DC | DC | |
| R415011113 | 24 V | 2 W | 2.5 ... 10 bar |
| R412007341 | 24 V | 2 W | 2.5 ... 10 bar |
| R412007342 | 24 V | 2 W | 2.5 ... 10 bar |
| R412007343 | 24 V | 2 W | 2.5 ... 10 bar |
| R414012347 | 24 V | 2 W | 2.5 ... 8 bar |

| Part No. | Electrical connection | basic valve with electrical connector |
|------------|-------------------------|---------------------------------------|
| | Pilot valve | |
| R415011113 | Plug, ISO 15217, form C | Basic valve with pilot valve |
| R412007341 | Plug, ISO 15217, form C | Basic valve with pilot valve |
| R412007342 | Plug, M12 | Basic valve with pilot valve |
| R412007343 | Plug, M12 | Basic valve with pilot valve |
| R414012347 | Plug, ISO 15217, form C | Basic valve with pilot valve |

| Part No. | Reverse polarity protection | Weight | Fig. |
|------------|-------------------------------------|----------|--------|
| R415011113 | Protected against polarity reversal | 0.459 kg | Fig. 1 |

| Part No. | Reverse polarity protection | Weight | Fig. |
|------------|-------------------------------------|----------|--------|
| R412007341 | Protected against polarity reversal | 0.609 kg | Fig. 1 |
| R412007342 | Protected against polarity reversal | 0.61 kg | Fig. 2 |
| R412007343 | Protected against polarity reversal | 0.6 kg | Fig. 2 |
| R414012347 | Protected against polarity reversal | 0.53 kg | Fig. 3 |

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

Technical information

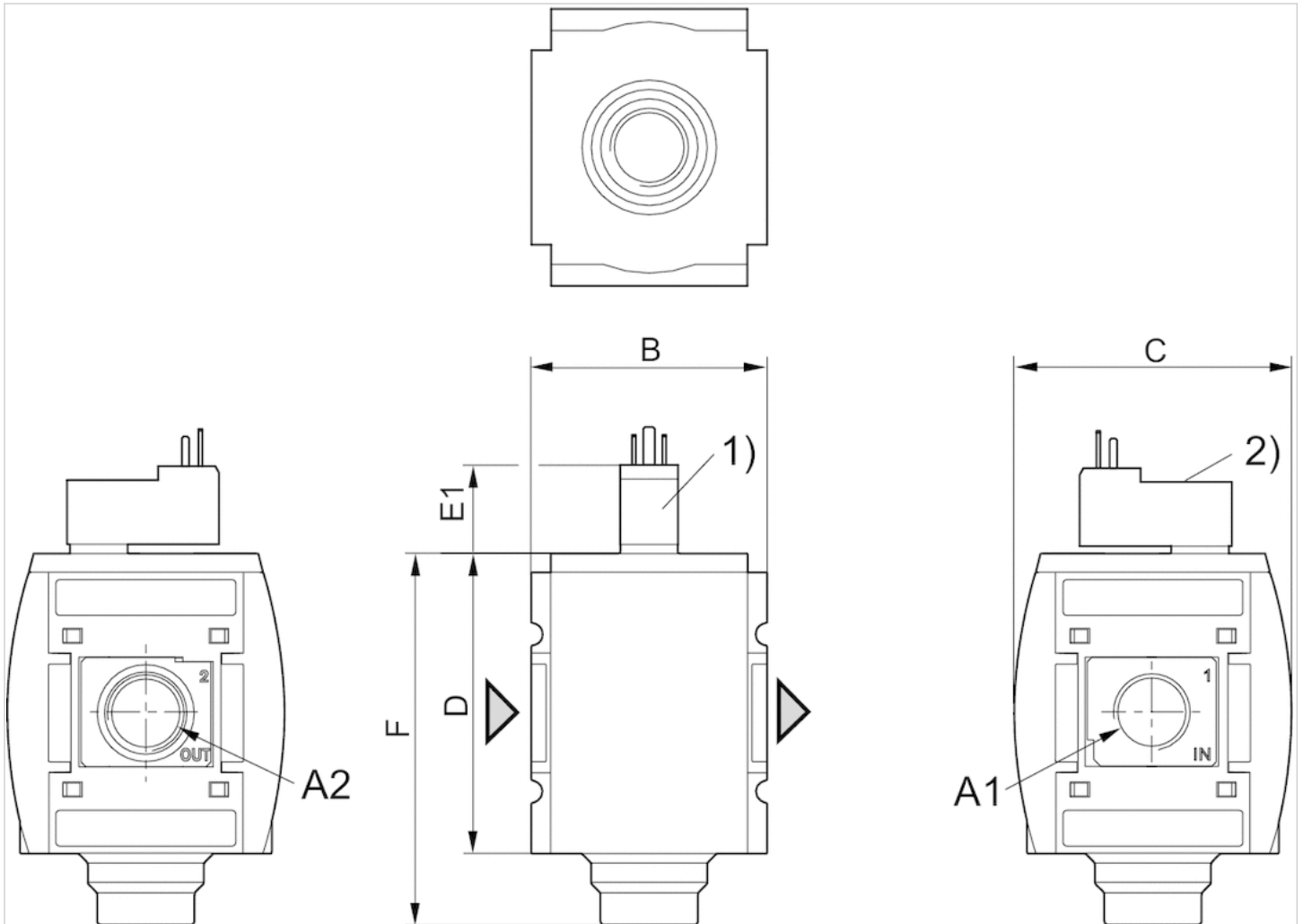
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Fig. 1: 2/2-directional valve with pilot valve and port for electrical connector form C



A1 = input

A2 = output

1) Connection for valve plug connector according to ISO 15217 (form C)

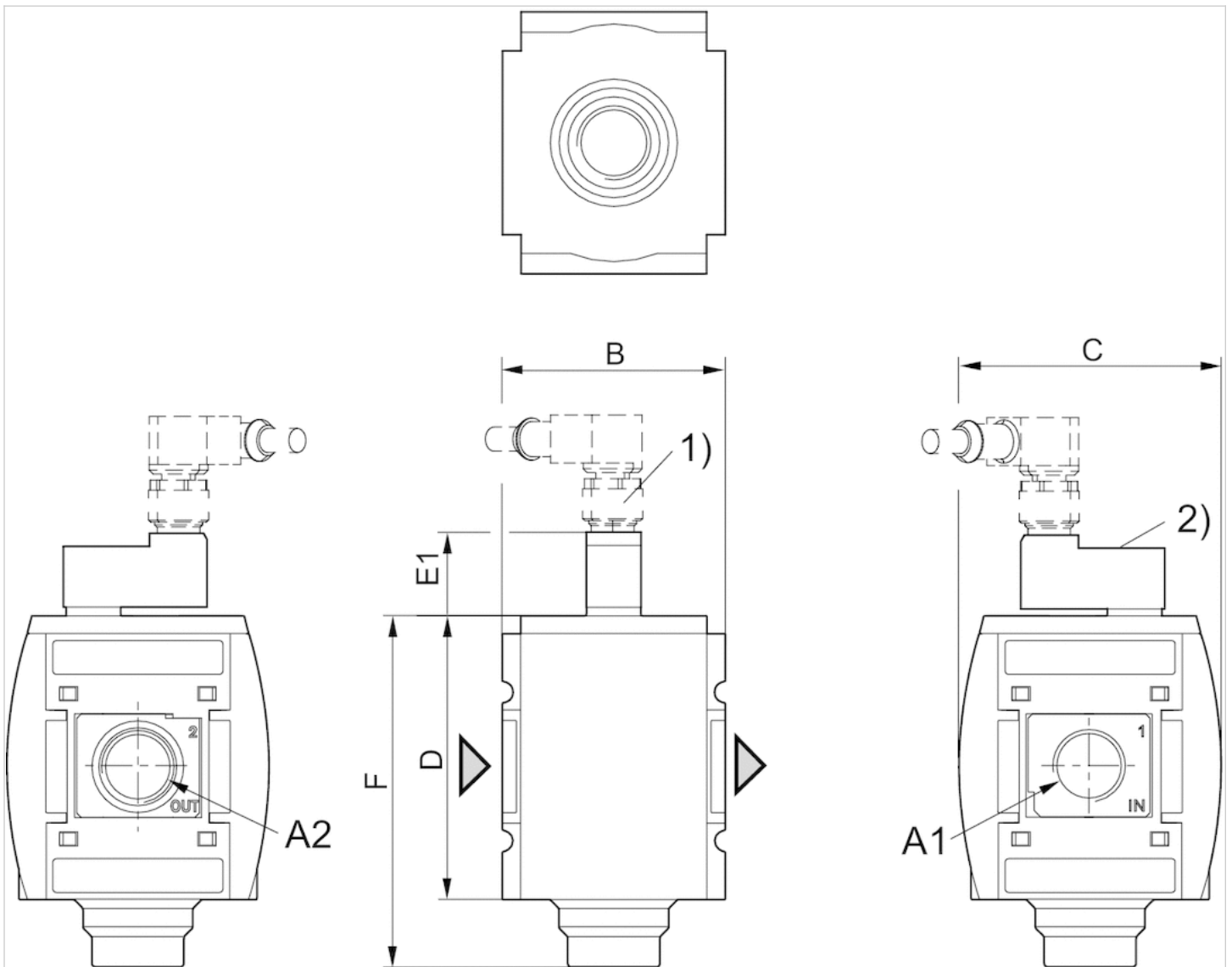
2) Manual override

Dimensions in mm

| A1 | A2 | B | C | D | E1 | F |
|-------|-------|----|----|----|------|----|
| G 1/2 | G 1/2 | 63 | 74 | 80 | 23.2 | 99 |
| G 3/8 | G 3/8 | 63 | 74 | 80 | 23.2 | 99 |

Dimensions

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



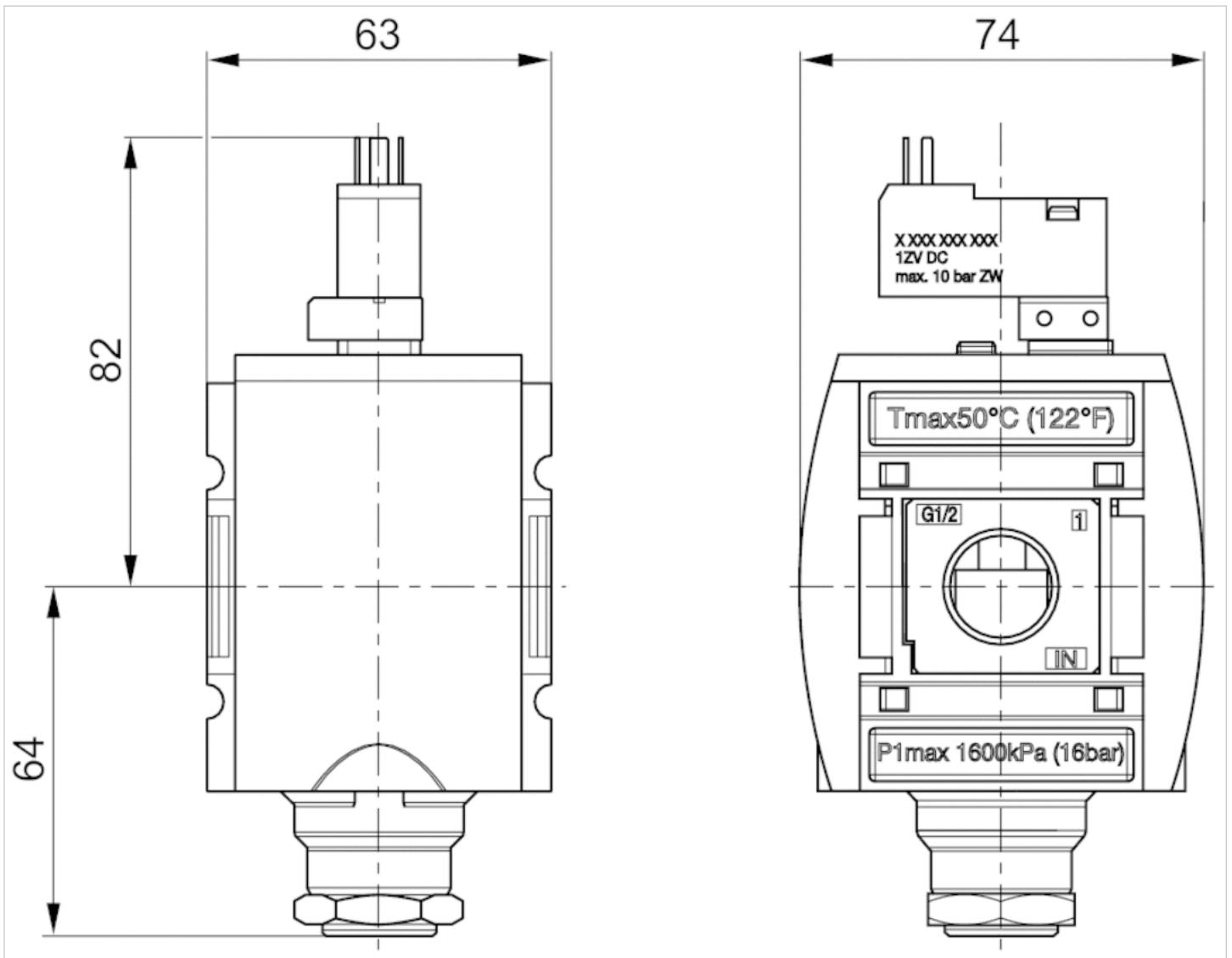
- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override

Dimensions in mm

| A1 | A2 | B | C | D | E1 | F |
|-------|-------|----|----|----|------|----|
| G 3/8 | G 3/8 | 63 | 74 | 80 | 23.2 | 99 |
| G 1/2 | G 1/2 | 63 | 74 | 80 | 23.2 | 99 |

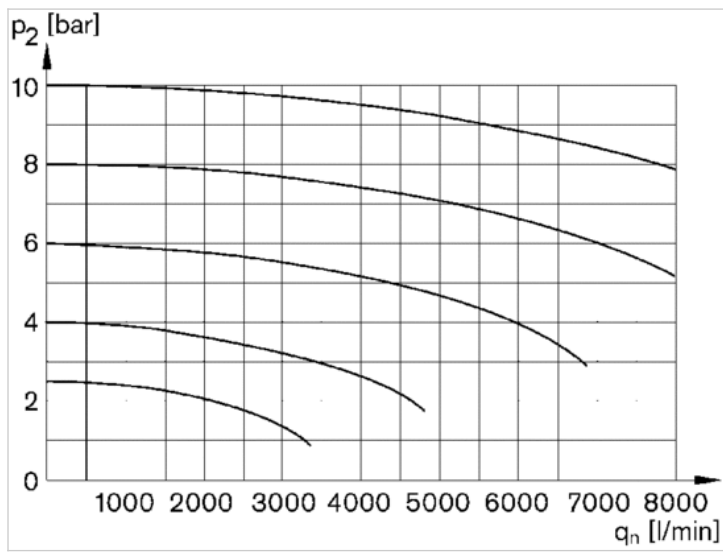
Dimensions

Dimensions, Fig. 3



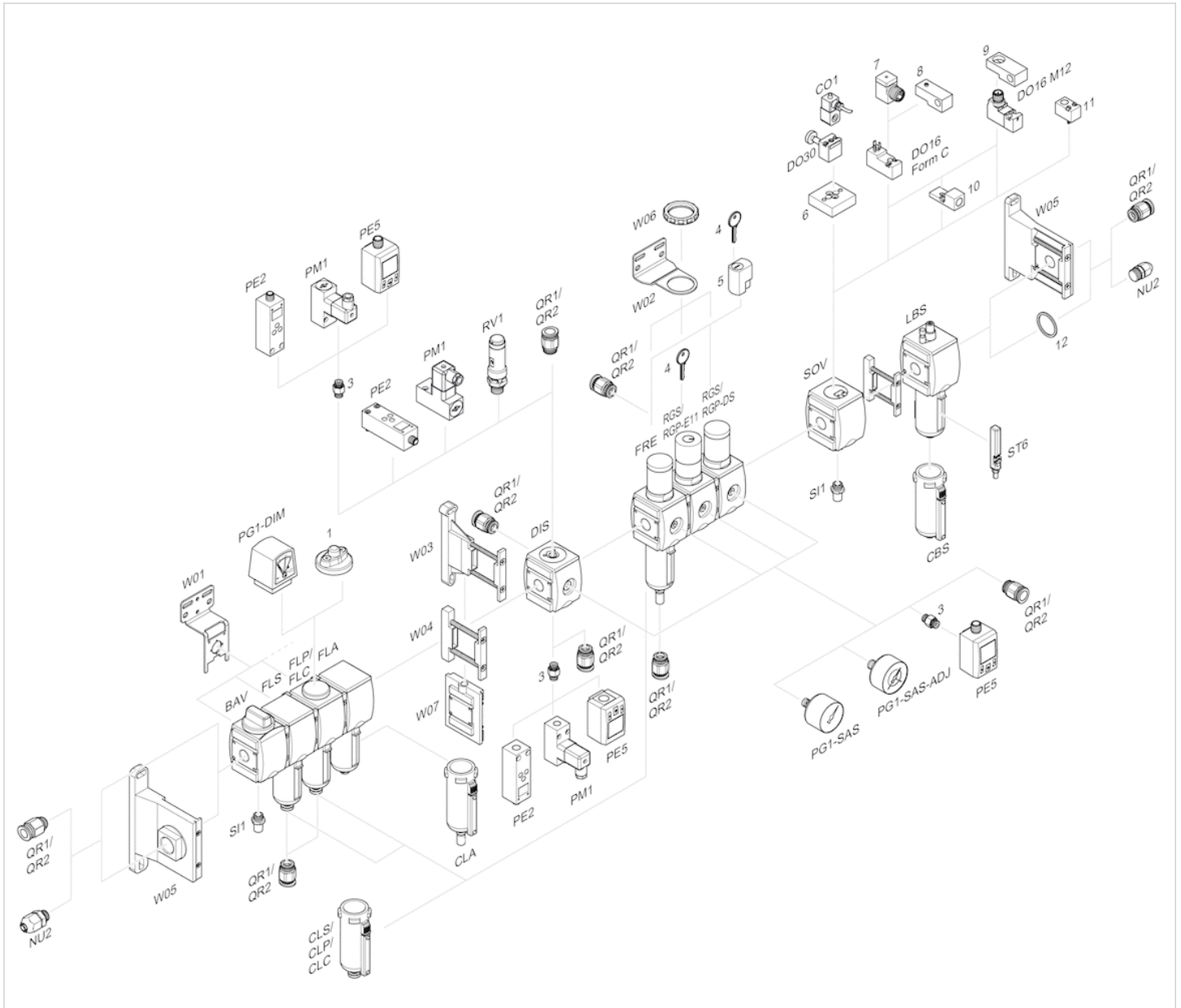
Diagrams

Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring



















3/2-directional valve, electrically operated, Series AS3-SOV

- Compressed air connection G 3/8, G 1/2
- Pipe connection



| | |
|-------------------------------------------------|----------------------------------------------|
| Version | Poppet valve, Can be assembled into blocks |
| Parts | 3/2-directional valve, electrically operated |
| Nominal flow | 4500 l/min |
| Nominal flow 1 ▶ 2 | 4500 l/min |
| Nominal flow 2 ▶ 3 | 3200 l/min |
| Working pressure min./max. | See table below |
| Medium | Compressed air Neutral gases |
| Medium temperature min./max. | -10 ... 50 °C |
| Ambient temperature min./max. | -10 ... 50 °C |
| Sealing principle | Soft sealing |
| Max. particle size | 25 µm |
| Protection class acc. to DIN EN 61140 with plug | IP65 |
| Weight | 0.459 kg |

Technical data

| Part No. | | | Compressed air connection input | Compressed air connection output | Exhaust |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------|---------|
| R412007265 |  |  | G 3/8 | G 3/8 | G 1/2 |
| R412007266 |  |  | G 3/8 | G 3/8 | G 1/2 |
| R412007267 |  |  | G 3/8 | G 3/8 | G 1/2 |
| R412007269 |  |  | G 1/2 | G 1/2 | G 1/2 |
| R412007270 |  |  | G 1/2 | G 1/2 | G 1/2 |
| R412007271 |  |  | G 1/2 | G 1/2 | G 1/2 |
| R412007258 |  | — | G 3/8 | G 3/8 | G 1/2 |
| R412007264 |  | — | G 3/8 | G 3/8 | G 1/2 |
| R412007259 |  | — | G 1/2 | G 1/2 | G 1/2 |
| R412007268 |  | — | G 1/2 | G 1/2 | G 1/2 |
| R412007391 |  |  | G 1/2 | G 1/2 | G 1/2 |

| Part No. | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
| | DC | AC 50 Hz | AC 60 Hz |
| R412007265 | 24 V | - | - |
| R412007266 | - | 110 V | 110 V |
| R412007267 | - | 220 V | 230 V |
| R412007269 | 24 V | - | - |
| R412007270 | - | 110 V | 110 V |
| R412007271 | - | 220 V | 230 V |
| R412007258 | - | - | - |

| Part No. | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
| | DC | AC 50 Hz | AC 60 Hz |
| R412007264 | - | - | - |
| R412007259 | - | - | - |
| R412007268 | - | - | - |
| R412007391 | 24 V | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| R412007265 | 2 W | - | - | - |
| R412007266 | - | 1.6 VA | 1.4 VA | 2.2 VA |
| R412007267 | - | 1.6 VA | 1.4 VA | 2.2 VA |
| R412007269 | 2 W | - | - | - |
| R412007270 | - | 1.6 VA | 1.4 VA | 2.2 VA |
| R412007271 | - | 1.6 VA | 1.4 VA | 2.2 VA |
| R412007258 | - | - | - | - |
| R412007264 | - | - | - | - |
| R412007259 | - | - | - | - |
| R412007268 | - | - | - | - |
| R412007391 | 2 W | - | - | - |

| Part No. | Switch-on power | Working pressure min./max. | Electrical connection |
|------------|-----------------|----------------------------|-------------------------|
| | AC 60 Hz | | Pilot valve |
| R412007265 | - | 2.5 ... 10 bar | Plug, ISO 15217, form C |
| R412007266 | 1.6 VA | 2.5 ... 10 bar | Plug, ISO 15217, form C |
| R412007267 | 1.6 VA | 2.5 ... 10 bar | Plug, ISO 15217, form C |
| R412007269 | - | 2.5 ... 10 bar | Plug, ISO 15217, form C |
| R412007270 | 1.6 VA | 2.5 ... 10 bar | Plug, ISO 15217, form C |
| R412007271 | 1.6 VA | 2.5 ... 10 bar | Plug, ISO 15217, form C |
| R412007258 | - | 2.5 ... 16 bar | - |
| R412007264 | - | 2.5 ... 16 bar | - |
| R412007259 | - | 2.5 ... 16 bar | - |
| R412007268 | - | 2.5 ... 16 bar | - |
| R412007391 | - | 2.5 ... 10 bar | Plug, M12x1 |

| Part No. | Connector standard | basic valve with electrical connector |
|------------|--------------------|-----------------------------------------------------|
| R412007265 | ISO 15217 | Basic valve with pilot valve |
| R412007266 | ISO 15217 | Basic valve with pilot valve |
| R412007267 | ISO 15217 | Basic valve with pilot valve |
| R412007269 | ISO 15217 | Basic valve with pilot valve |
| R412007270 | ISO 15217 | Basic valve with pilot valve |
| R412007271 | ISO 15217 | Basic valve with pilot valve |
| R412007258 | - | Basic valve without pilot valve, with CNOMO subbase |
| R412007264 | - | Basic valve without pilot valve |
| R412007259 | - | Basic valve without pilot valve, with CNOMO subbase |
| R412007268 | - | Basic valve without pilot valve |

| Part No. | Connector standard | basic valve with electrical connector |
|------------|-----------------------|---------------------------------------|
| R412007391 | EN 175301-803, form B | Basic valve with pilot valve |

| Part No. | Reverse polarity protection | Fig. | |
|------------|-------------------------------------|--------|----|
| R412007265 | Protected against polarity reversal | Fig. 3 | - |
| R412007266 | Protected against polarity reversal | Fig. 3 | - |
| R412007267 | Protected against polarity reversal | Fig. 3 | - |
| R412007269 | Protected against polarity reversal | Fig. 3 | - |
| R412007270 | Protected against polarity reversal | Fig. 3 | - |
| R412007271 | Protected against polarity reversal | Fig. 3 | - |
| R412007258 | - | Fig. 2 | - |
| R412007264 | - | Fig. 1 | - |
| R412007259 | - | Fig. 2 | - |
| R412007268 | - | Fig. 1 | - |
| R412007391 | - | Fig. 4 | 1) |

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

1) With valve plug connector, EN 175301-803, form B

Technical information

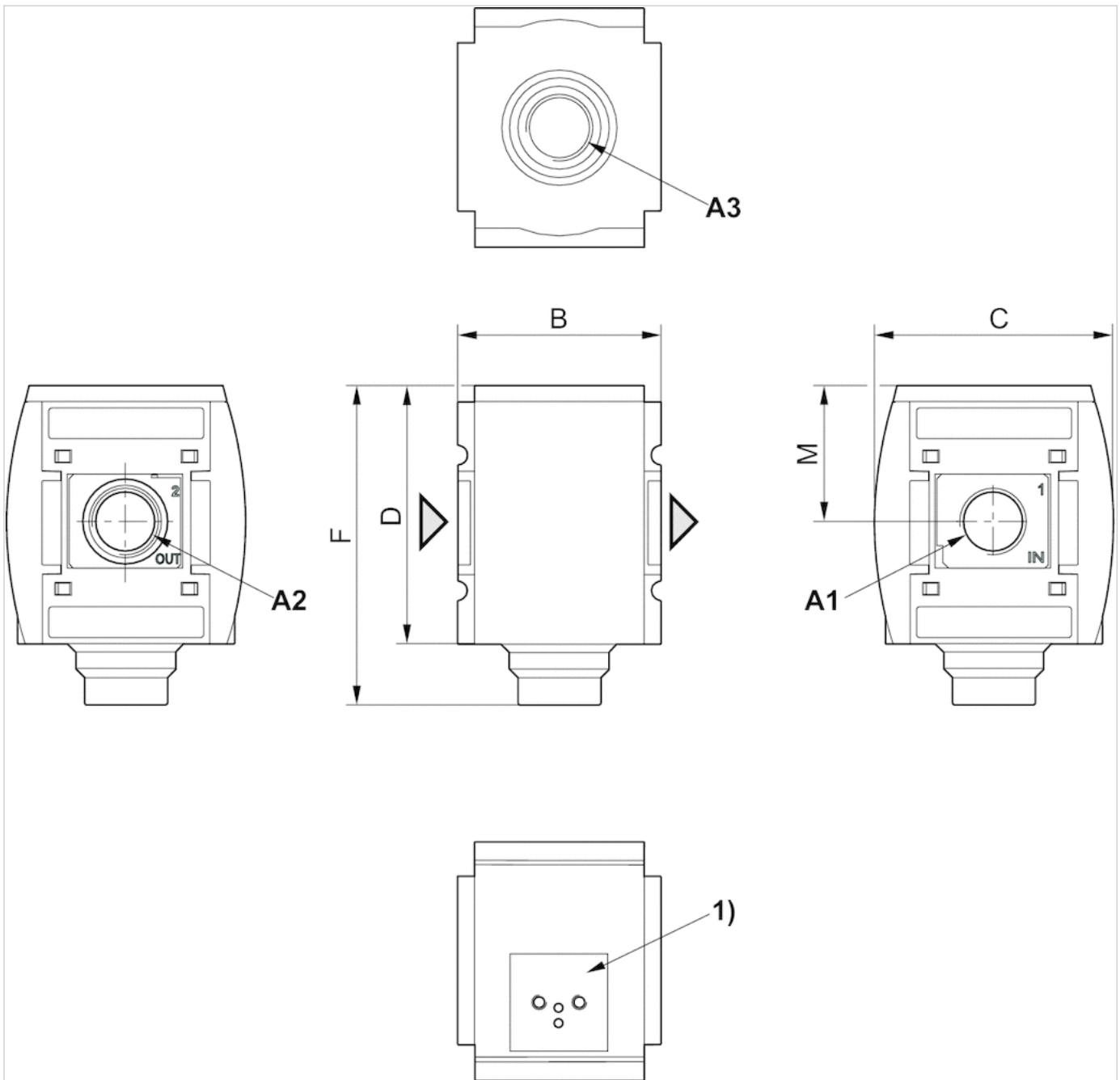
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

3/2-directional valve without pilot valve with porting configuration for series DO16



A1 = input

A2 = output

A3 = ventilation port

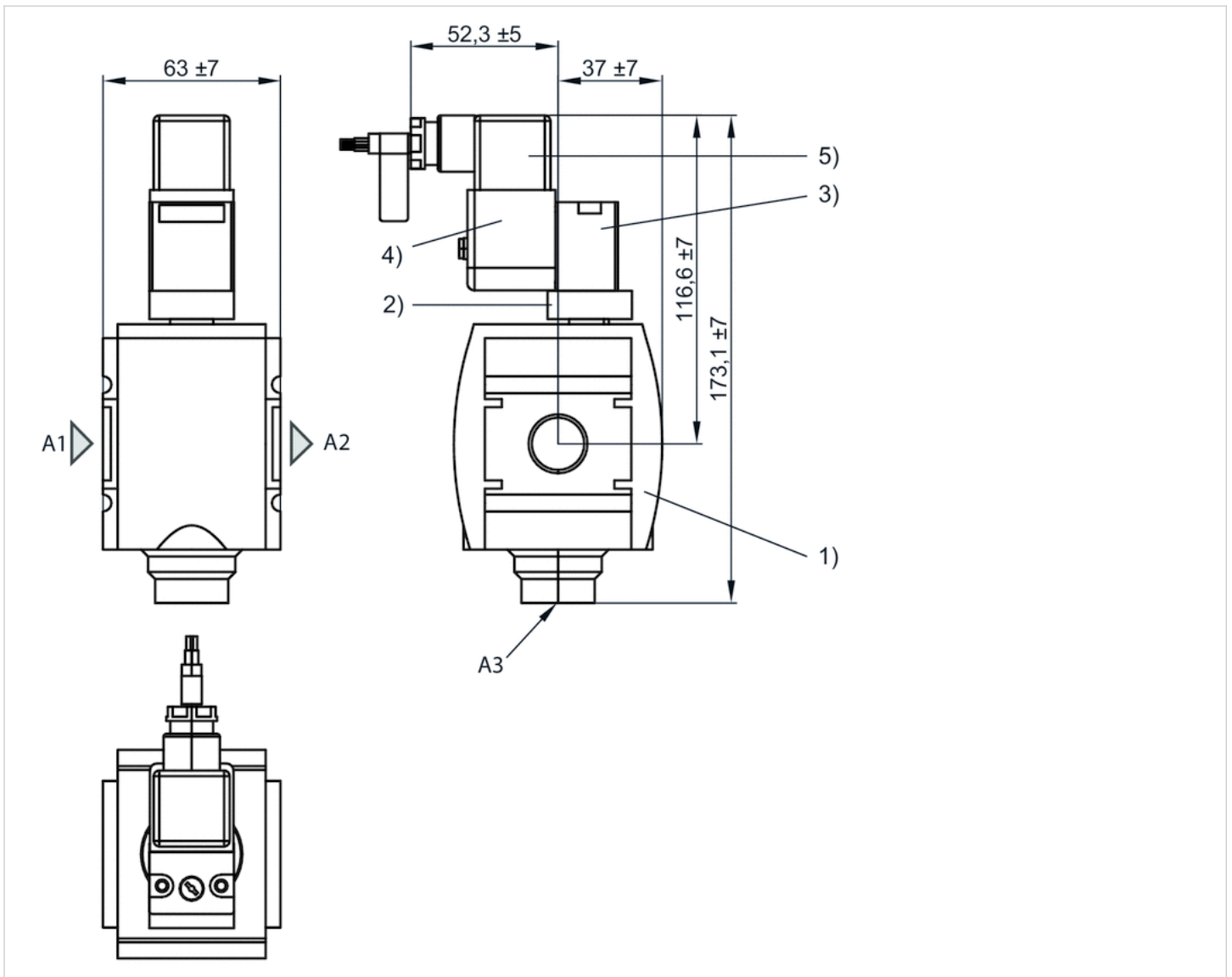
1) For pilot valve series DO16

Dimensions in mm

| A1 | A2 | A3 | B | C | D | F | M |
|-------|-------|-------|----|----|----|----|------|
| G 3/8 | G 3/8 | G 1/2 | 63 | 74 | 80 | 99 | 42.5 |
| G 1/2 | G 1/2 | G 1/2 | 63 | 74 | 80 | 99 | 42.5 |

Dimensions

Fig. 2: 3/2 directional valve with transition plate



A1 = input

A2 = output

A3 = ventilation port

1) Shut-off valve

2) Transition plate

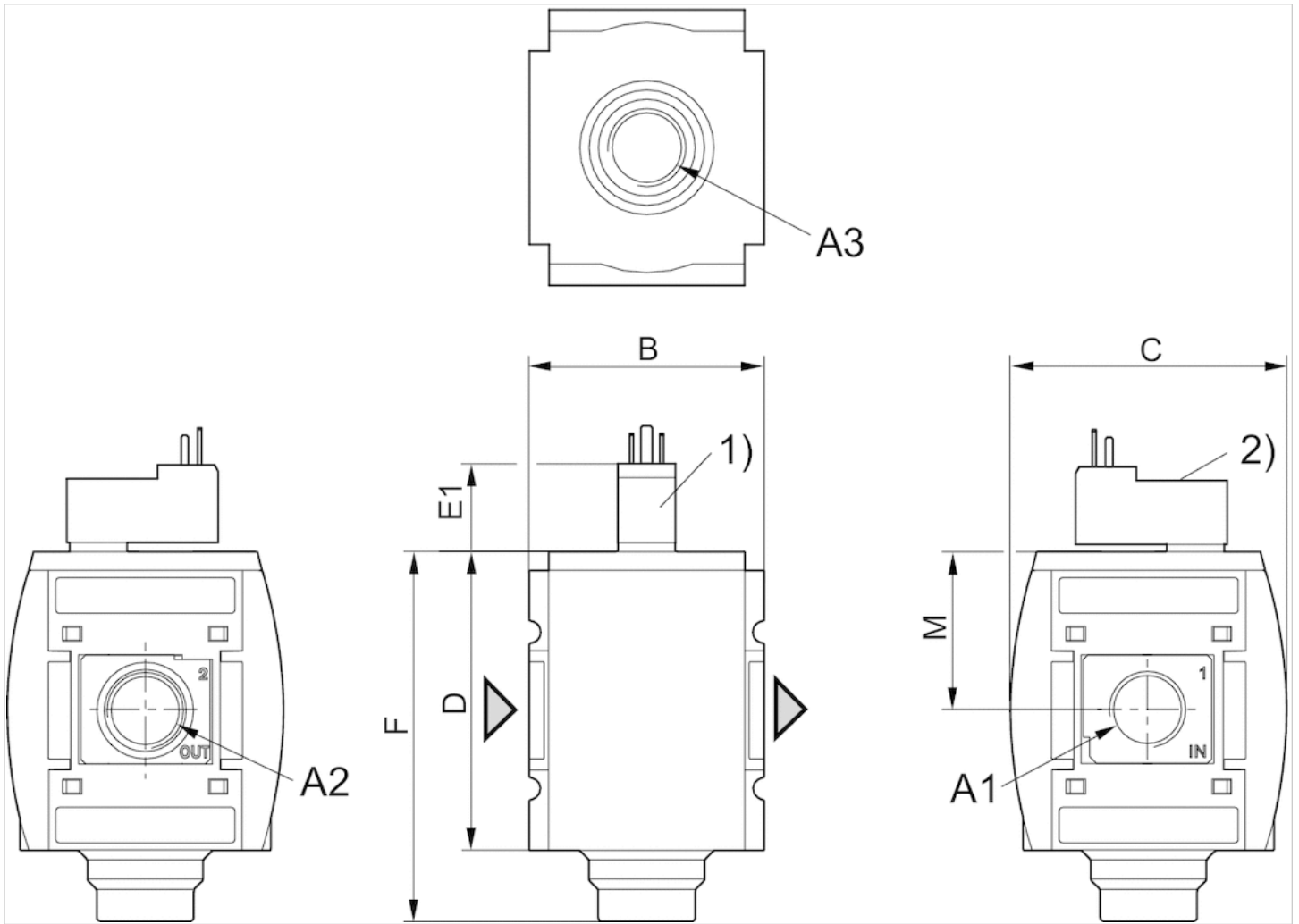
3) Pilot valve

4) Coil

5) Electrical connector

See accessories for pilot valve and coil

Fig. 3: 3/2 directional valve with pilot valve and connection for valve plug connector



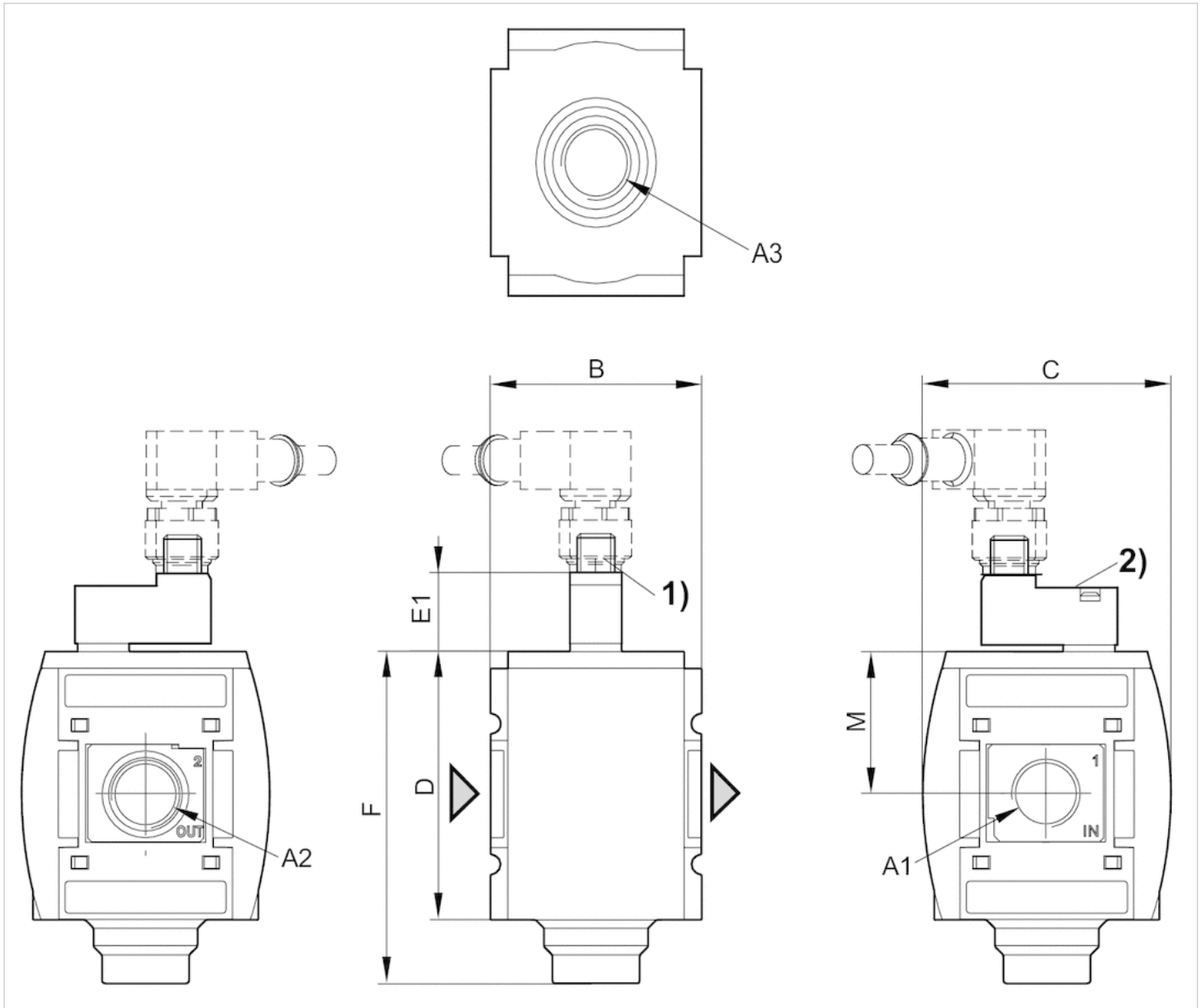
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Connection for valve plug connector according to ISO 15217 (form C)
- 2) Manual override

Dimensions in mm

| A1 | A2 | A3 | B | C | D | E1 | F | M |
|-------|-------|-------|----|----|----|------|----|------|
| G 3/8 | G 3/8 | G 1/2 | 63 | 74 | 80 | 23.2 | 99 | 42.5 |
| G 1/2 | G 1/2 | G 1/2 | 63 | 74 | 80 | 23.2 | 99 | 42.5 |

Dimensions

Fig. 4: 3/2 directional valve with pilot valve and valve plug connector for plug



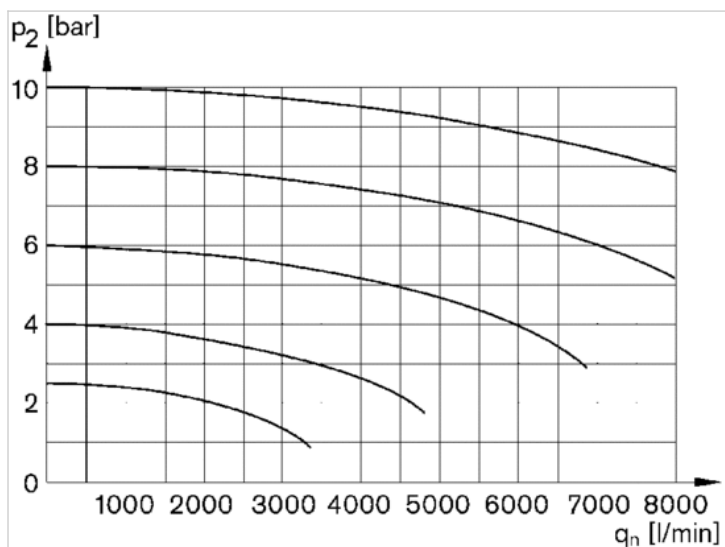
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) plug M12
- 2) Manual override

Dimensions in mm

| A2 | A3 | B | C | D | E1 | F | M |
|-------|-------|----|----|----|------|----|------|
| G 3/8 | G 1/2 | 63 | 74 | 80 | 23.2 | 99 | 42.5 |
| G 1/2 | G 1/2 | 63 | 74 | 80 | 23.2 | 99 | 42.5 |

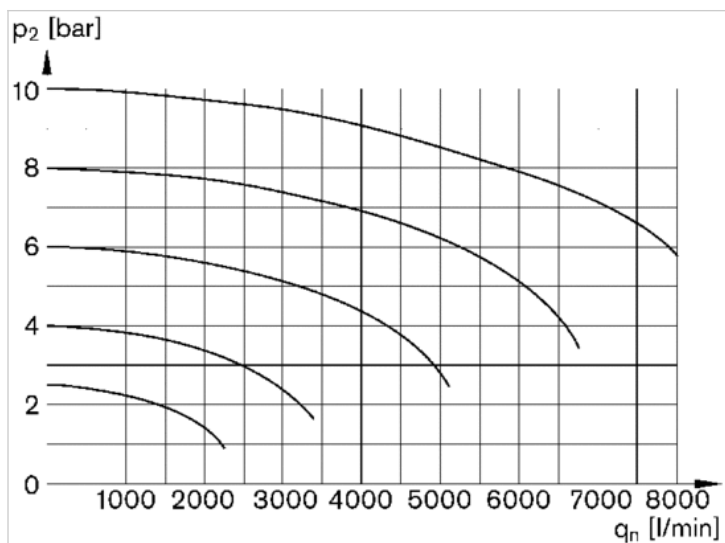
Diagrams

Flow rate characteristic



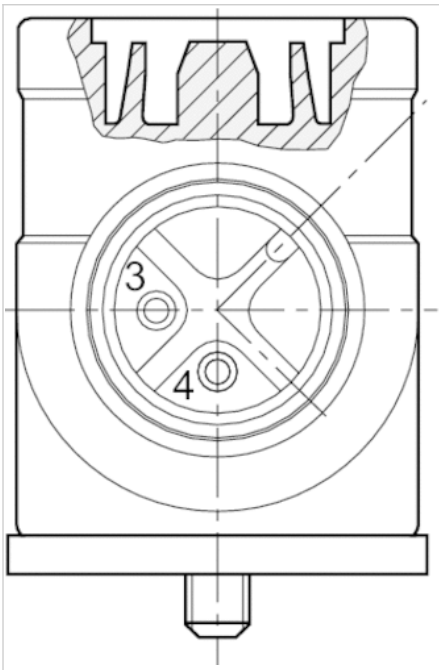
p2 = secondary pressure
qn = nominal flow

Rear exhaust



p2 = secondary pressure
qn = nominal flow

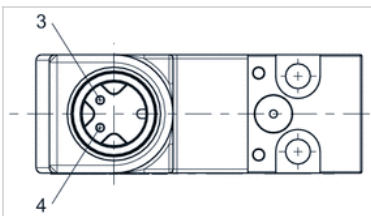
Pin assignment M12x1



- (3) ▶ (1)
- (4) ▶ (2)

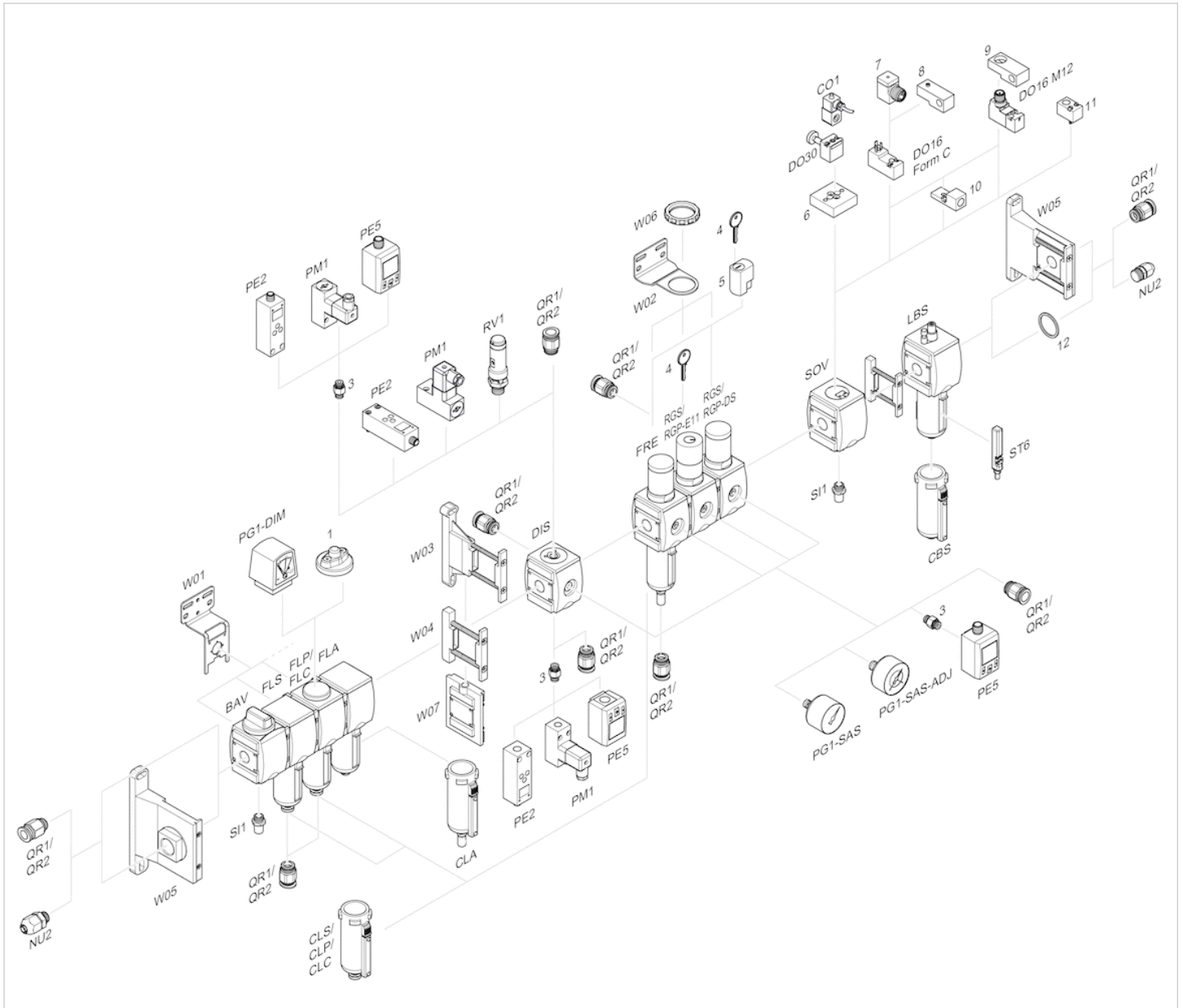
Pin assignments

Pin assignment M12x1



- 3: +/-
- 4: +/-

Accessories overview



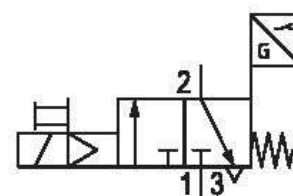
- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007336

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|-----------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Plug |
| Max. particle size 25 µm | Electrical connection 2, thread size ISO 15217, form C |
| Compressed air connection G 3/8 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M12 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007336 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

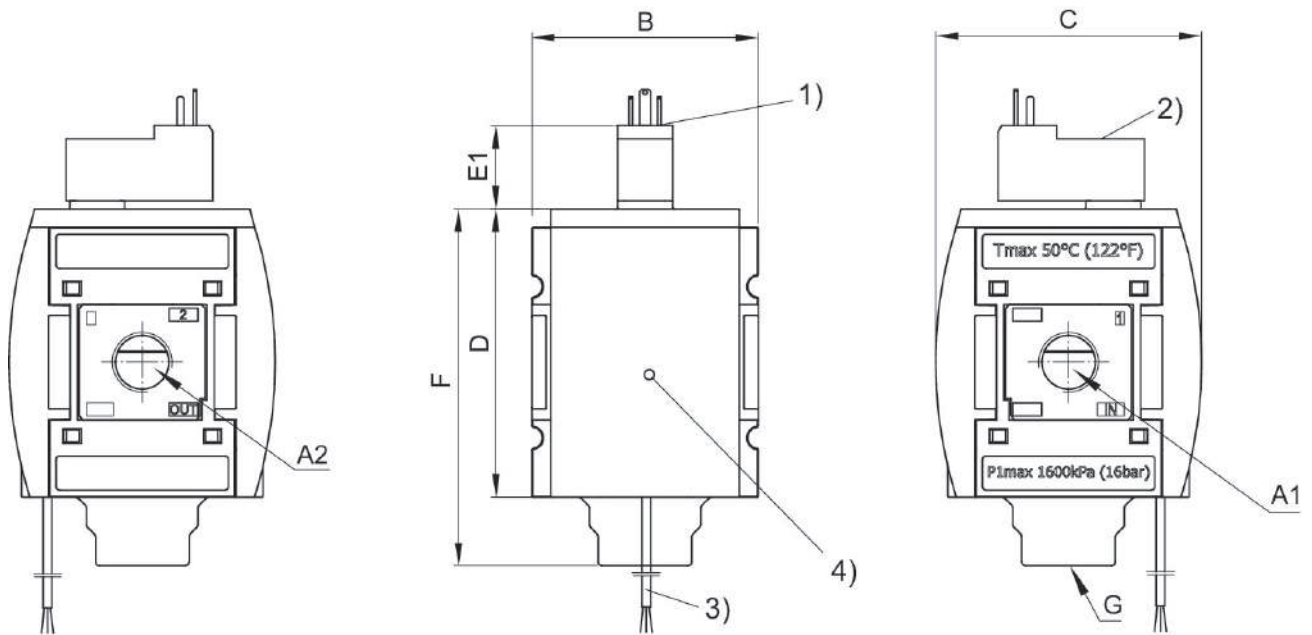
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

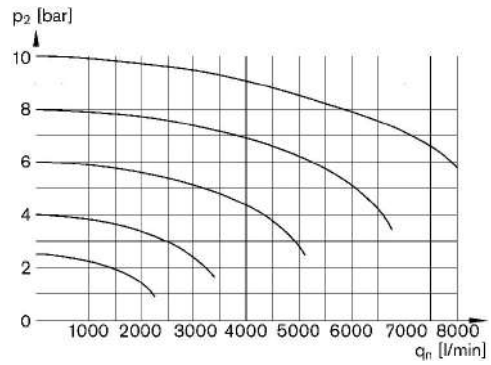
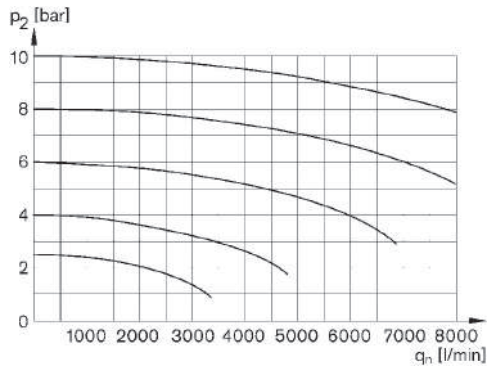


- A1 = input
 A2 = output
 1) Electr. connection: valve plug connector form C, ISO 15217
 2) Manual override
 3) Connection cable
 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|------|----|------|
| R412007336 | G3/8 | G3/8 | 63 | 74 | 80 | 23.2 | 99 | G1/2 |

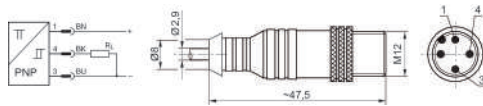
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust
 bar



p_2 = secondary pressure
 q_n = nominal flow

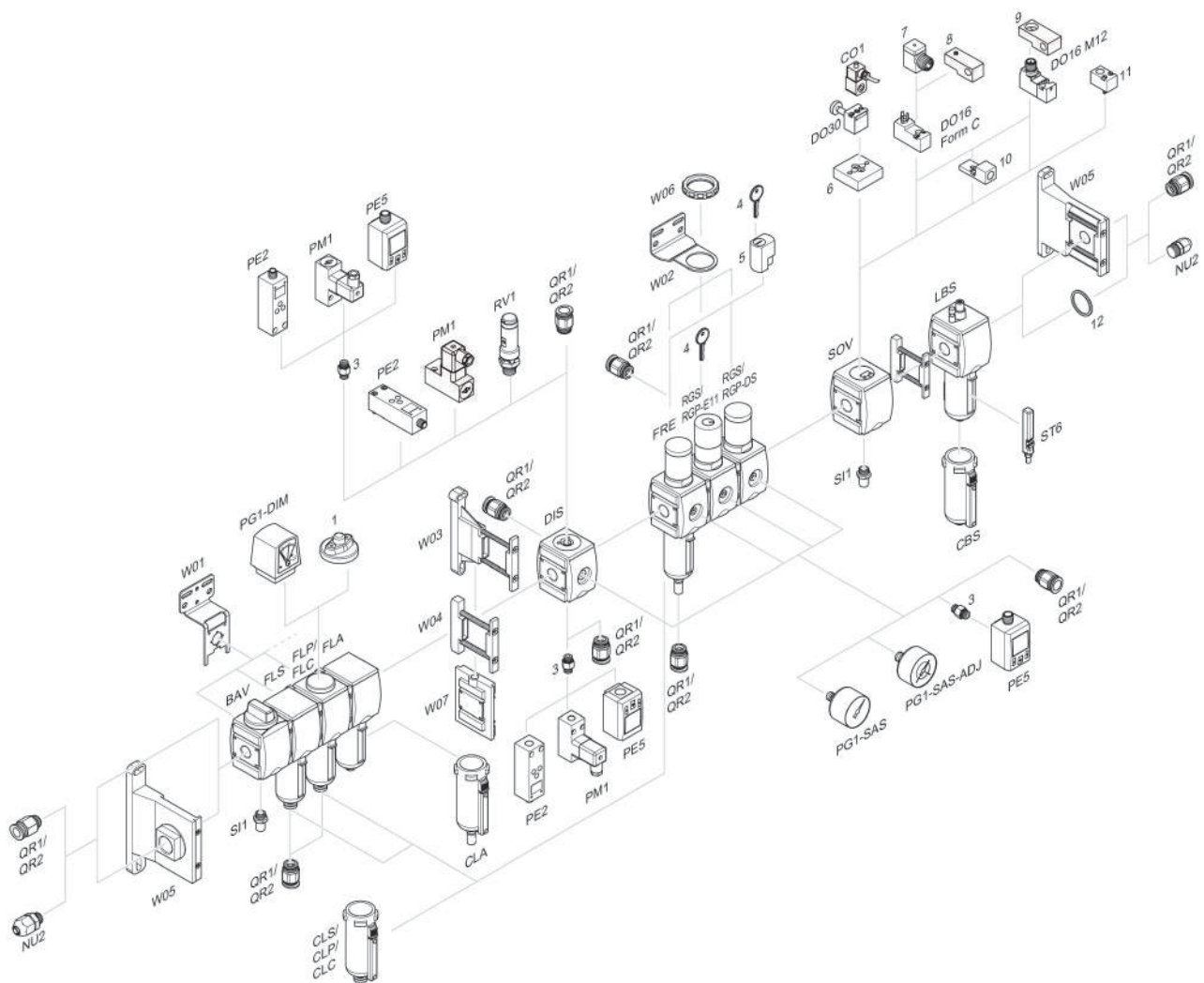
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug, M12



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



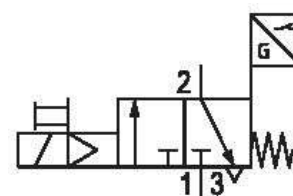
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007337

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|-----------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Plug |
| Max. particle size 25 µm | Electrical connection 2, thread size ISO 15217, form C |
| Compressed air connection G 1/2 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M12 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007337 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

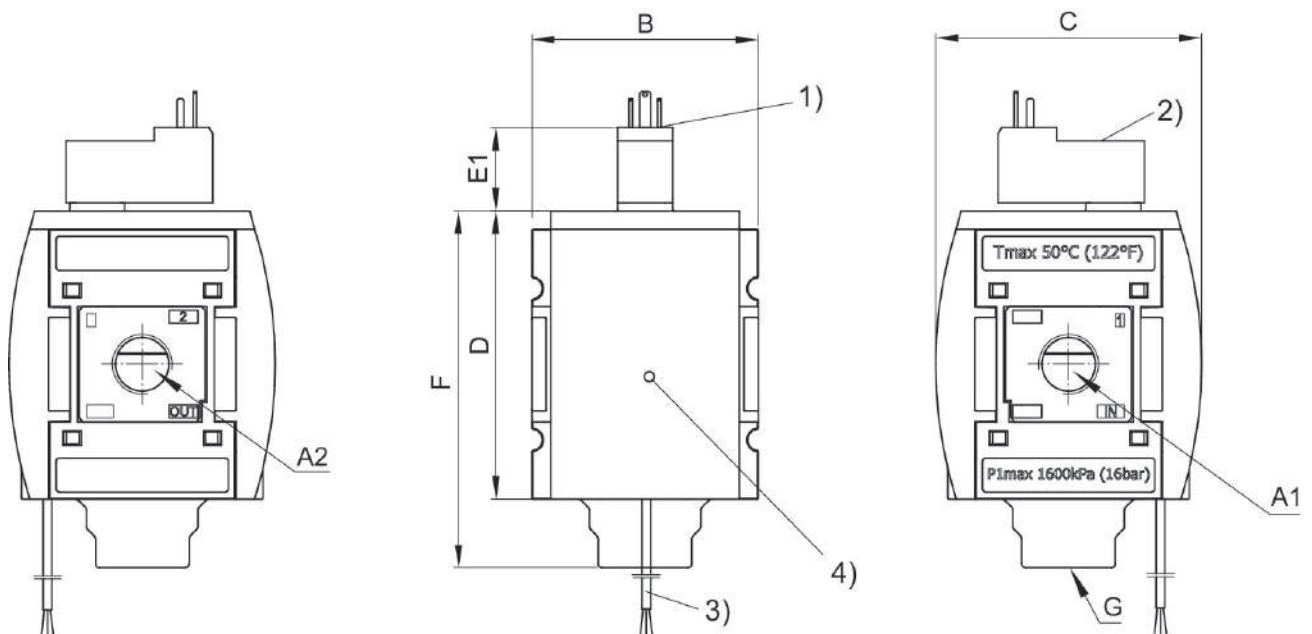
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

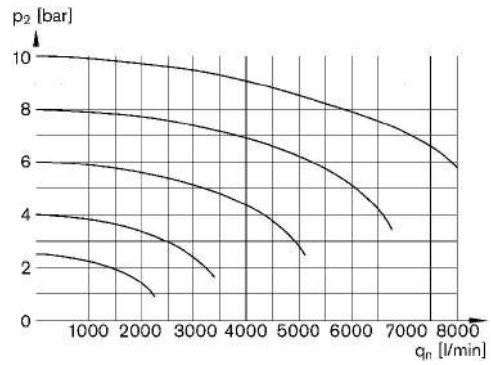
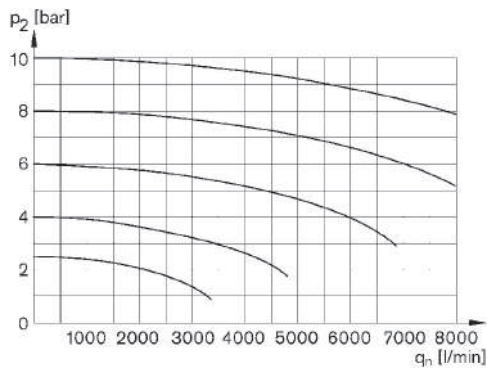


- A1 = input
 A2 = output
 1) Electr. connection: valve plug connector form C, ISO 15217
 2) Manual override
 3) Connection cable
 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|------|----|------|
| R412007337 | G1/2 | G1/2 | 63 | 74 | 80 | 23.2 | 99 | G1/2 |

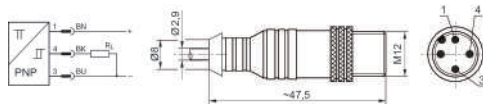
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust
 bar



p_2 = secondary pressure
 q_n = nominal flow

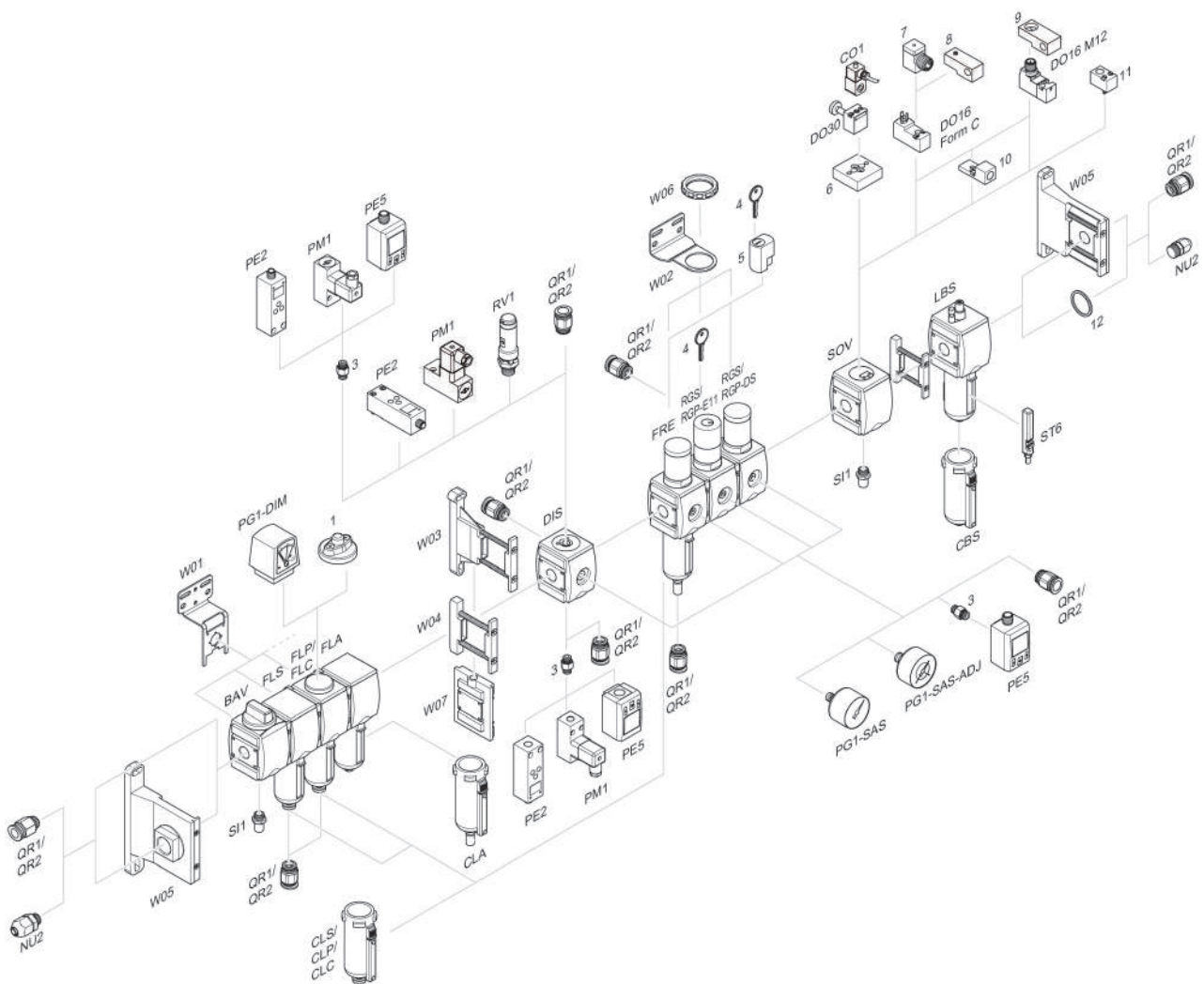
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug, M12



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



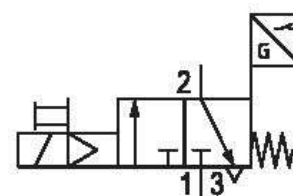
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007353

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|--------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Socket |
| Max. particle size 25 µm | Electrical connection 2, thread size M12x1 |
| Compressed air connection G 3/8 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M8 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007353 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

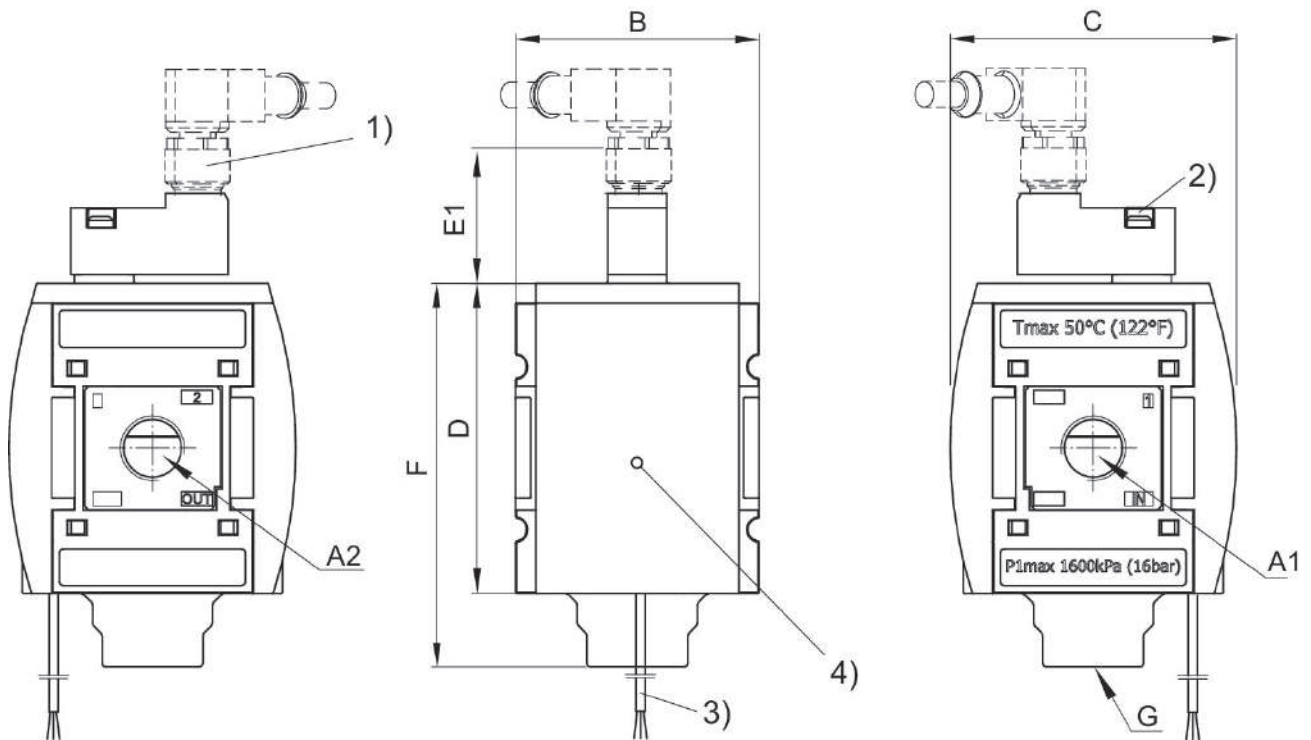
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

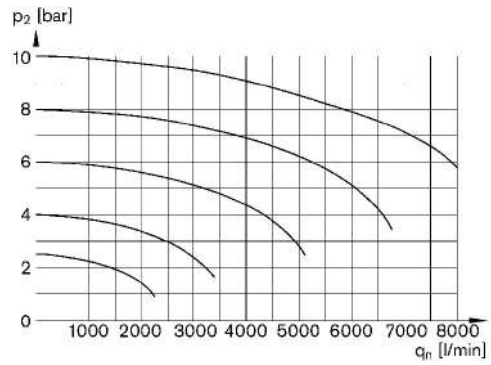
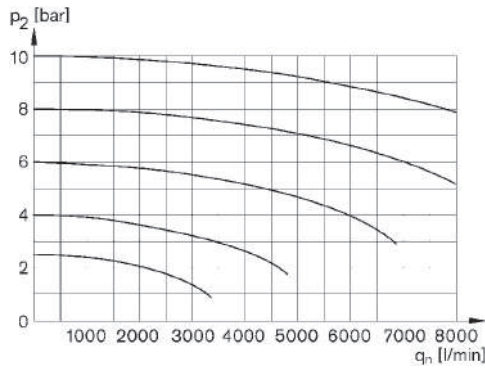


- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|----|----|------|
| R412007353 | G3/8 | G3/8 | 63 | 74 | 80 | 39 | 99 | G1/2 |

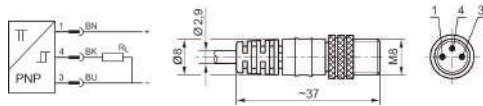
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust
 bar



p_2 = secondary pressure
 q_n = nominal flow

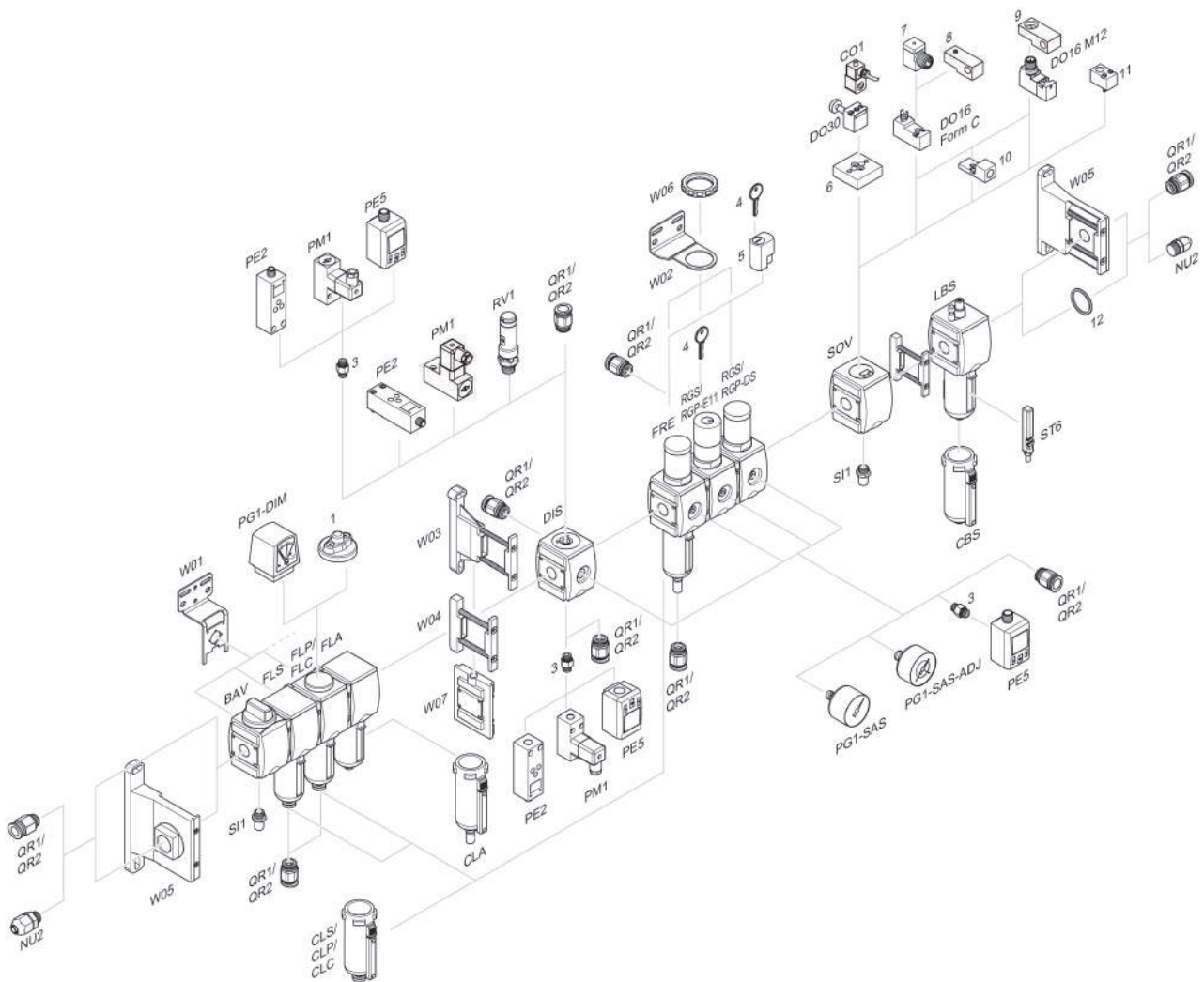
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug M8



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



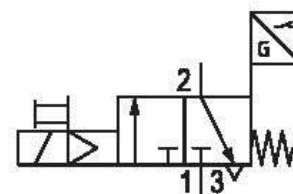
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007354

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks
basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|--------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Socket |
| Max. particle size 25 µm | Electrical connection 2, thread size M12x1 |
| Compressed air connection G 1/2 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M8 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007354 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

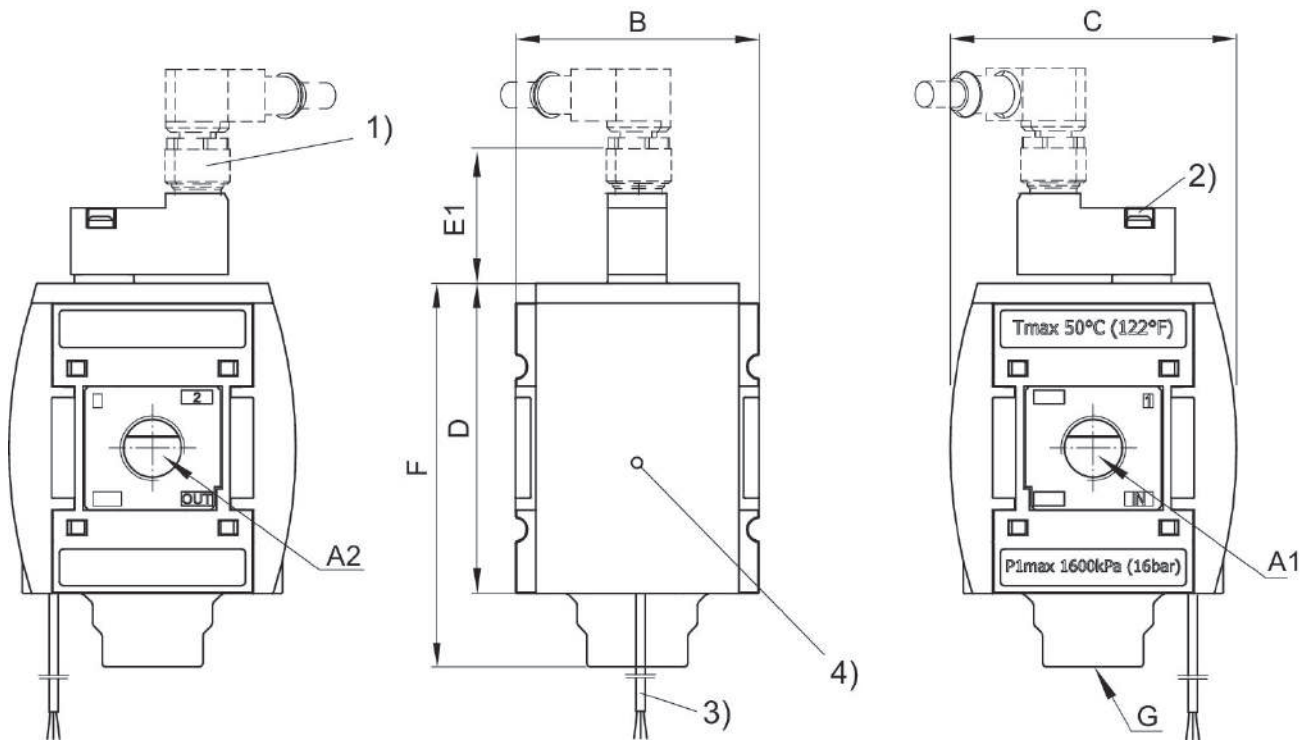
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

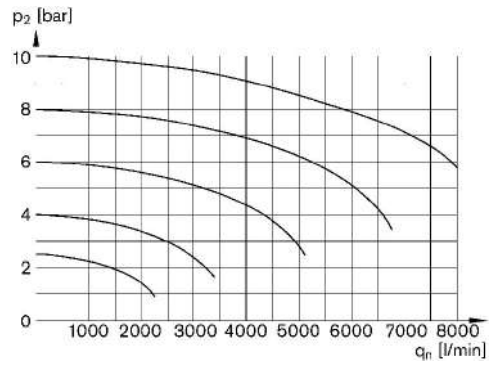
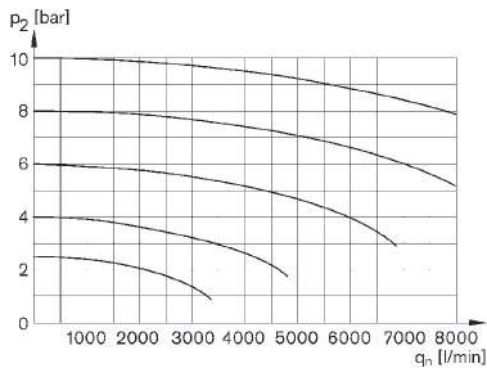


- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|----|----|------|
| R412007354 | G1/2 | G1/2 | 63 | 74 | 80 | 39 | 99 | G1/2 |

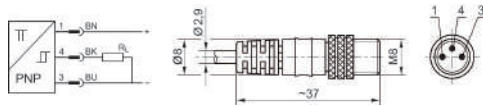
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

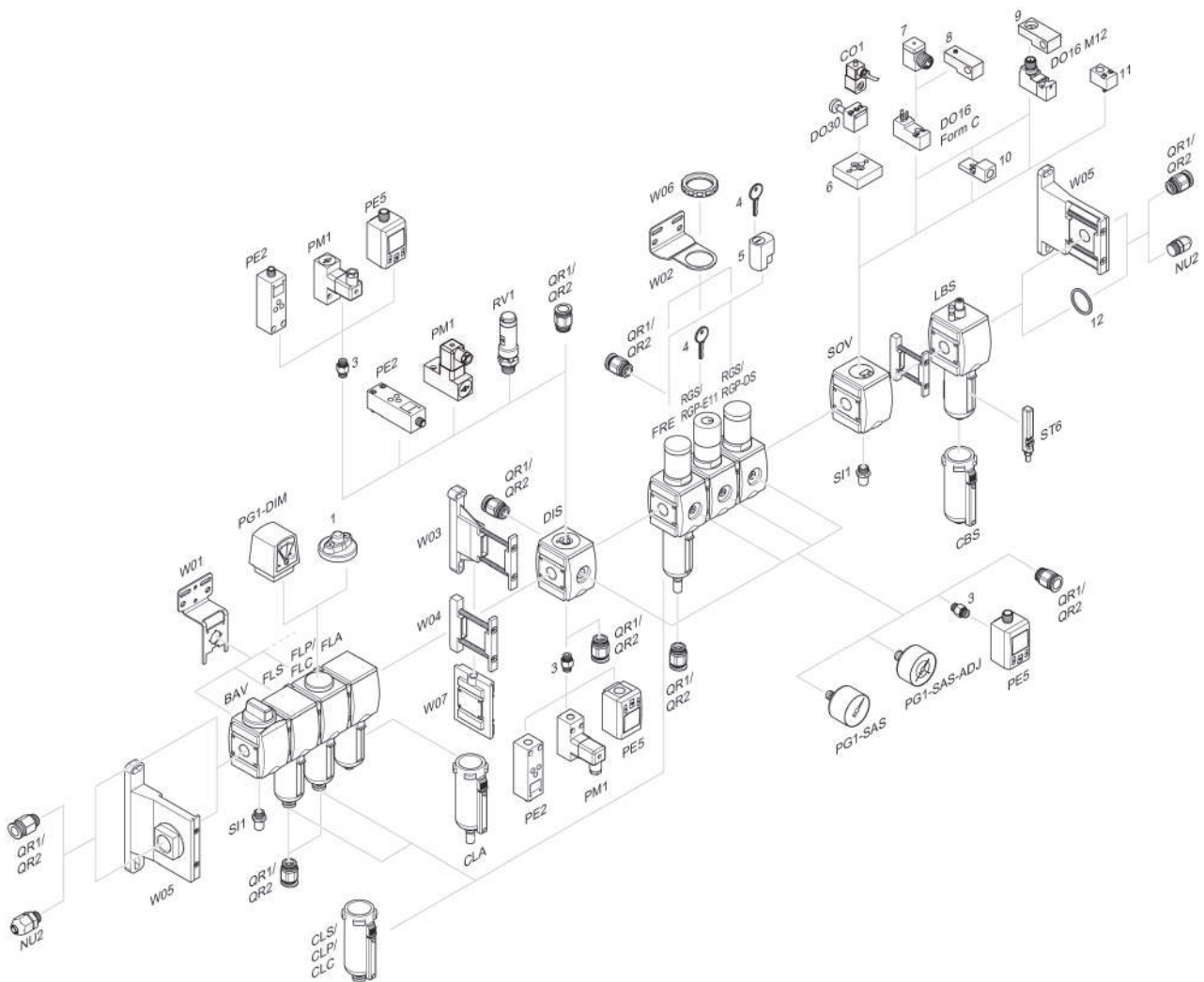
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug M8



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



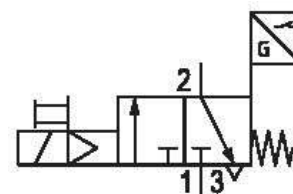
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007355

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|--------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Socket |
| Max. particle size 25 µm | Electrical connection 2, thread size M12x1 |
| Compressed air connection G 3/8 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M12 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007355 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

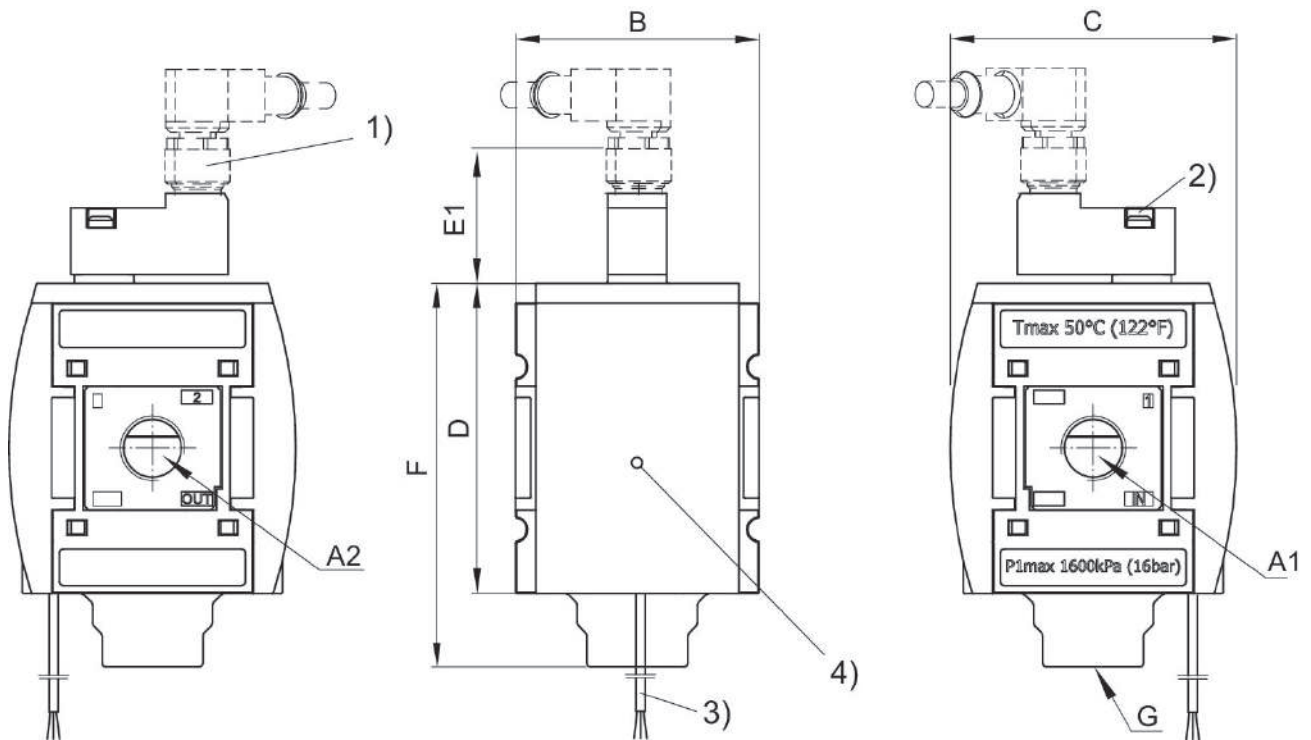
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

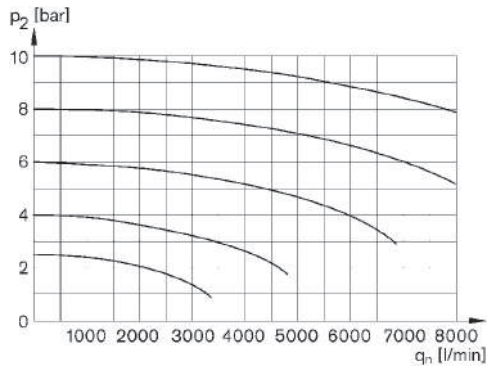


- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

Dimensions in mm

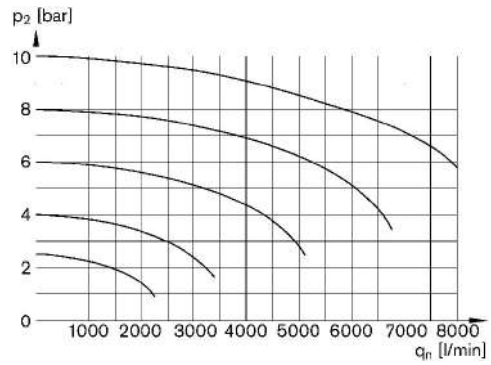
| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|----|----|------|
| R412007355 | G3/8 | G3/8 | 63 | 74 | 80 | 39 | 99 | G1/2 |

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



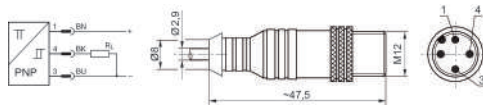
p_2 = secondary pressure
 q_n = nominal flow

Rear exhaust



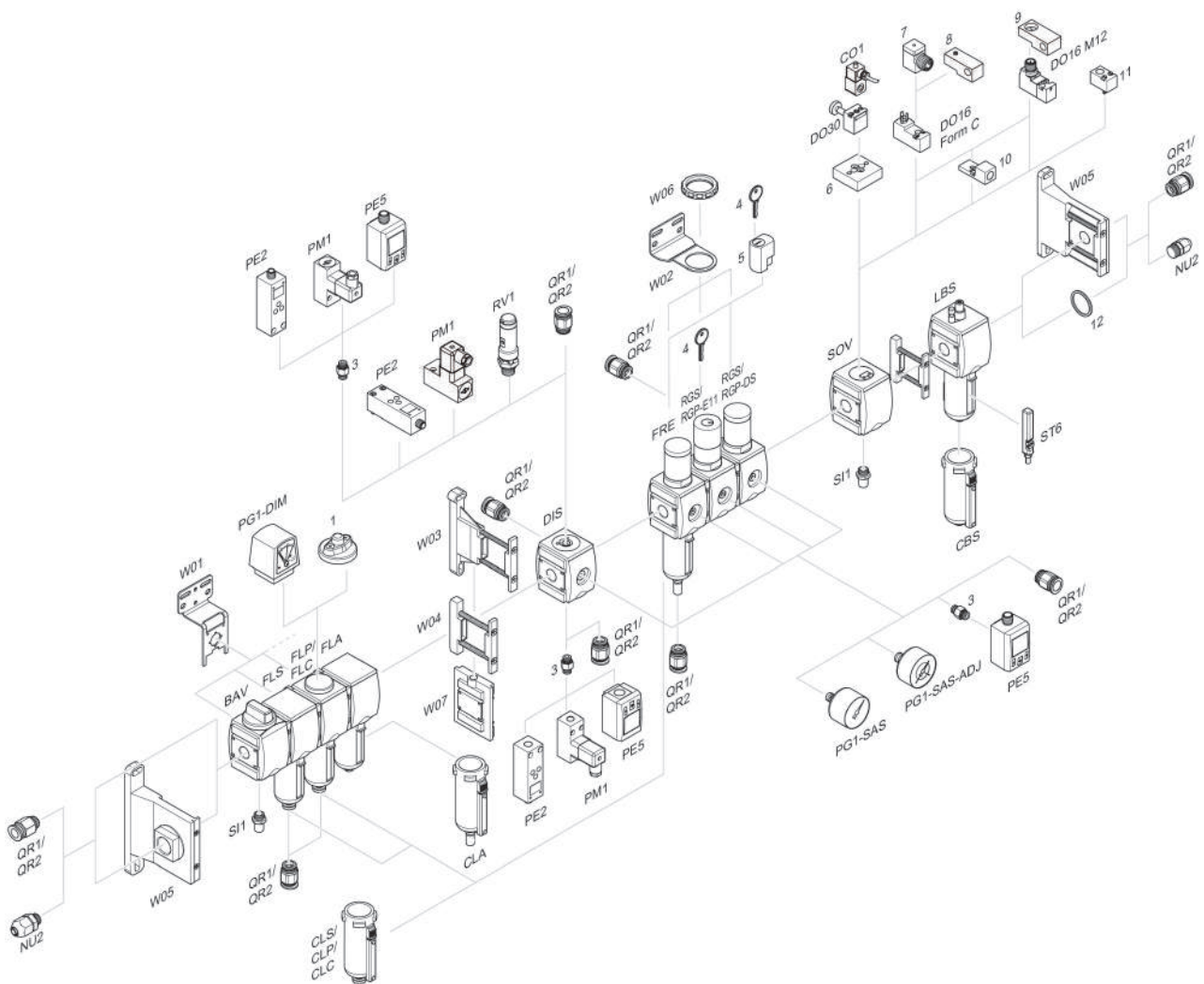
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug, M12



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



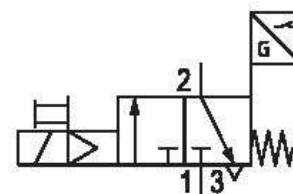
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007356

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|--------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Socket |
| Max. particle size 25 µm | Electrical connection 2, thread size M12x1 |
| Compressed air connection G 1/2 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M12 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007356 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

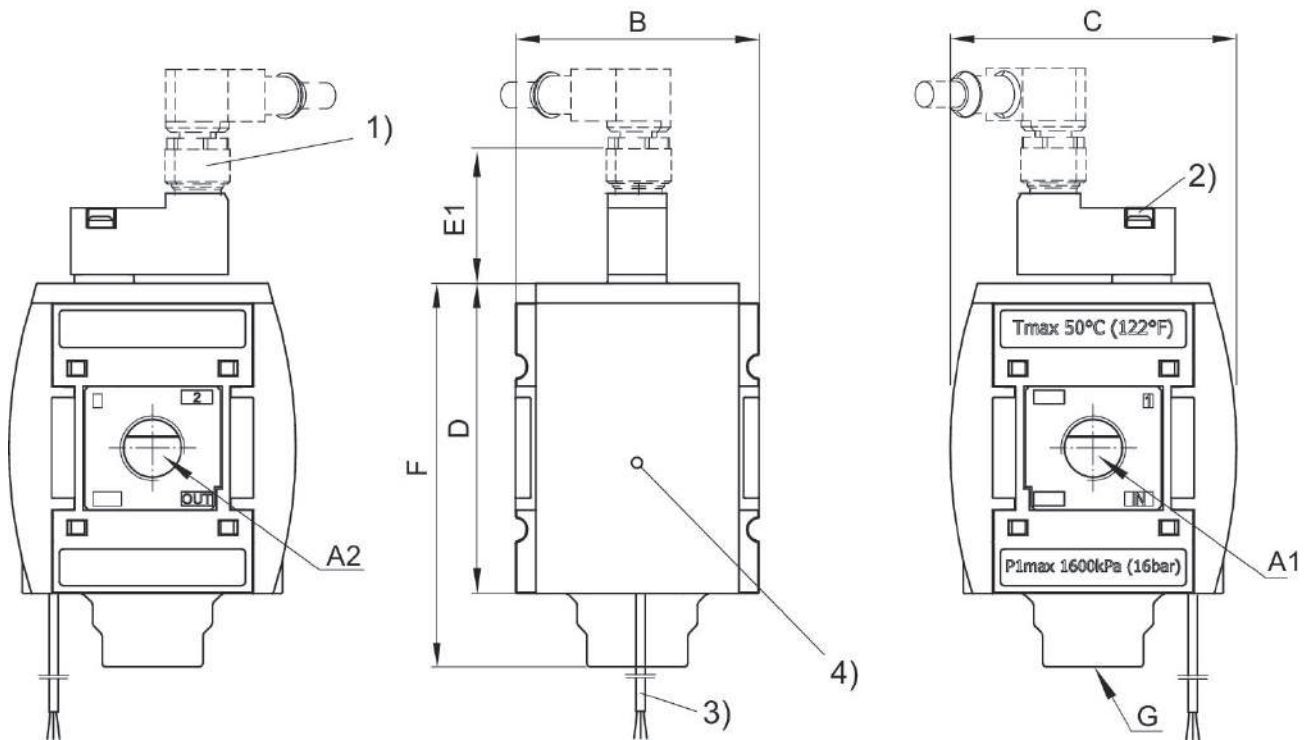
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

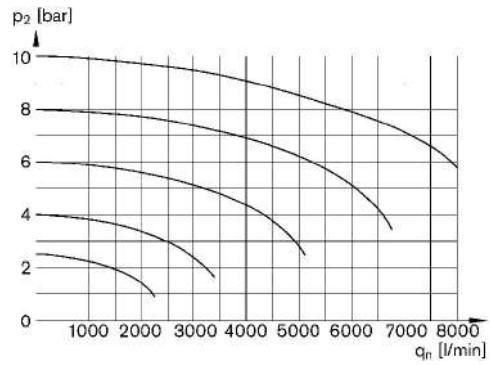
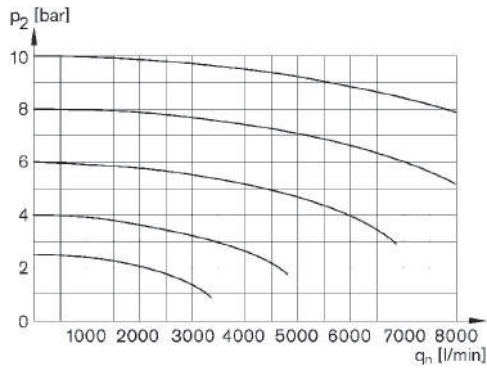


- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|----|----|------|
| R412007356 | G1/2 | G1/2 | 63 | 74 | 80 | 39 | 99 | G1/2 |

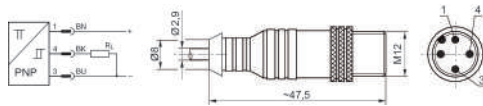
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust
 bar



p_2 = secondary pressure
 q_n = nominal flow

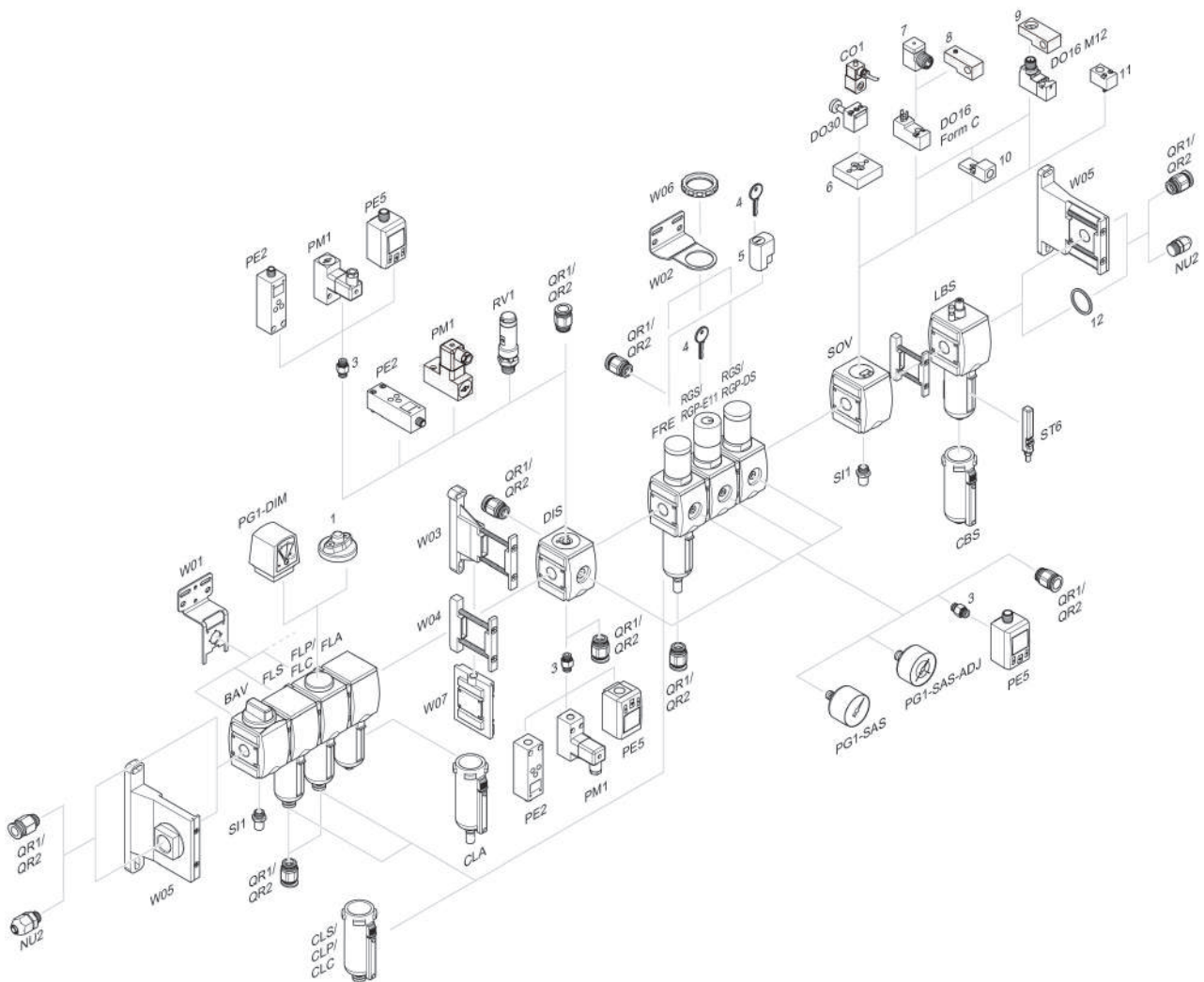
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug, M12



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



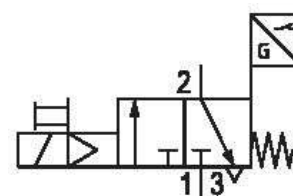
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007359

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|-----------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Plug |
| Max. particle size 25 µm | Electrical connection 2, thread size ISO 15217, form C |
| Compressed air connection G 3/8 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M8 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007359 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

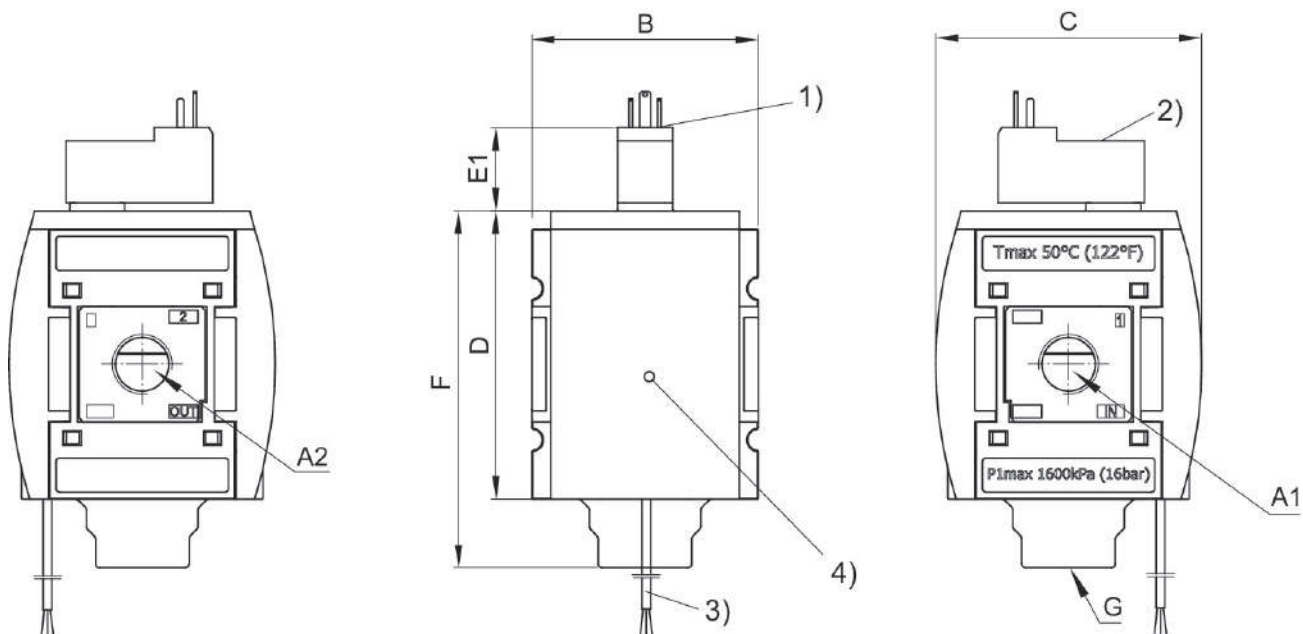
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

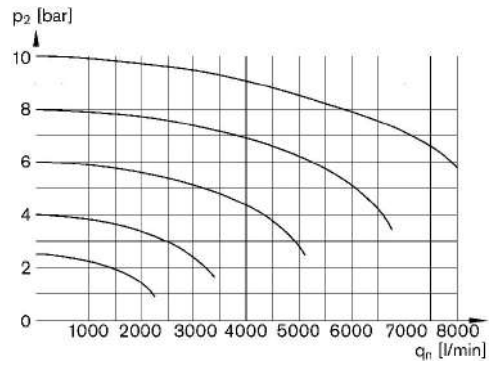
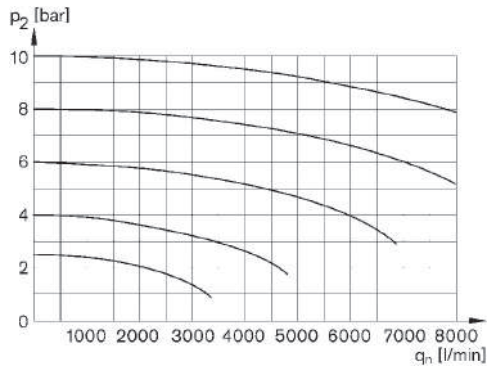


- A1 = input
 A2 = output
 1) Electr. connection: valve plug connector form C, ISO 15217
 2) Manual override
 3) Connection cable
 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|------|----|------|
| R412007359 | G1/2 | G3/8 | 63 | 74 | 80 | 23.2 | 99 | G1/2 |

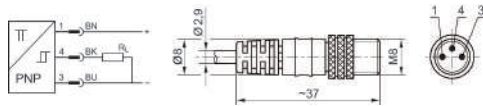
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust
 bar



p_2 = secondary pressure
 q_n = nominal flow

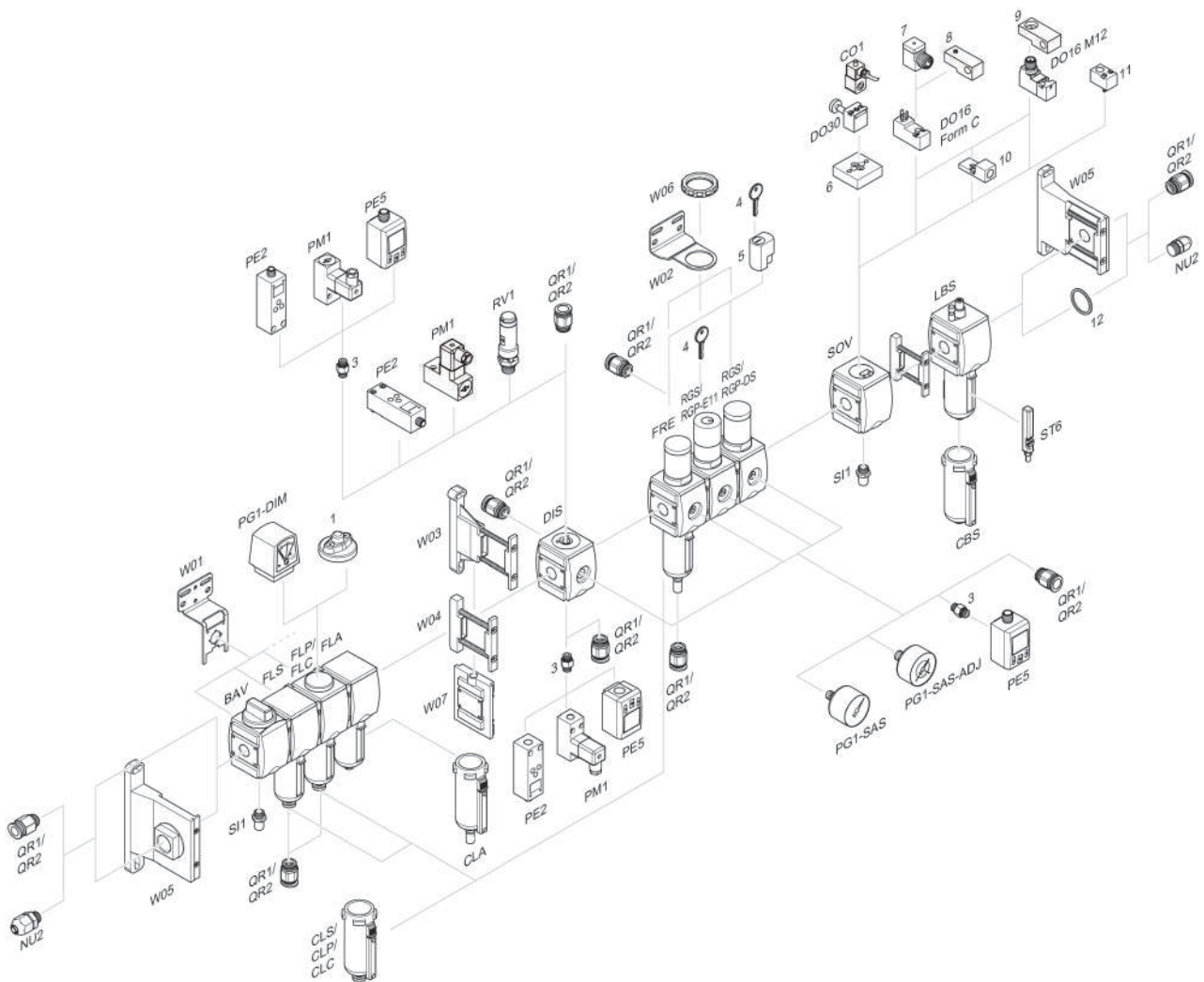
p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug M8



Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

Accessories overview



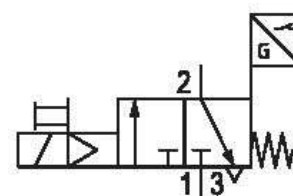
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007360

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

| | |
|---------------------------------------------|-----------------------------------------------------------|
| Medium Compressed air Neutral gases | Electrical connection type 2 Plug |
| Max. particle size 25 µm | Electrical connection 2, thread size ISO 15217, form C |
| Compressed air connection G 1/2 | Electrical connection for sensor Plug |
| Compressed air connection, exhaust G 1/2 | Electrical connection for sensor M8 |
| Nominal flow Qn 1 to 2 4500 l/min | Electrical connection for sensor 3-pin |
| Nominal flow Qn 2 to 3 3200 l/min | Cable length sensor 0.3 m |
| Power consumption DC 2 W | Electrical connection for sensor with knurled screw |
| Protection class with connection IP65 | Weight 0.459 kg |

Material

| | |
|-------------------------------------------------|---------------------------------------------------------|
| Housing material Polyamide | Material front plate Acrylonitrile butadiene styrene |
| Seal material Acrylonitrile butadiene rubber | Part No. R412007360 |
| Material threaded bushing Die cast zinc | |

Technical information

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

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

Can be used in circuits with increased efficiency.

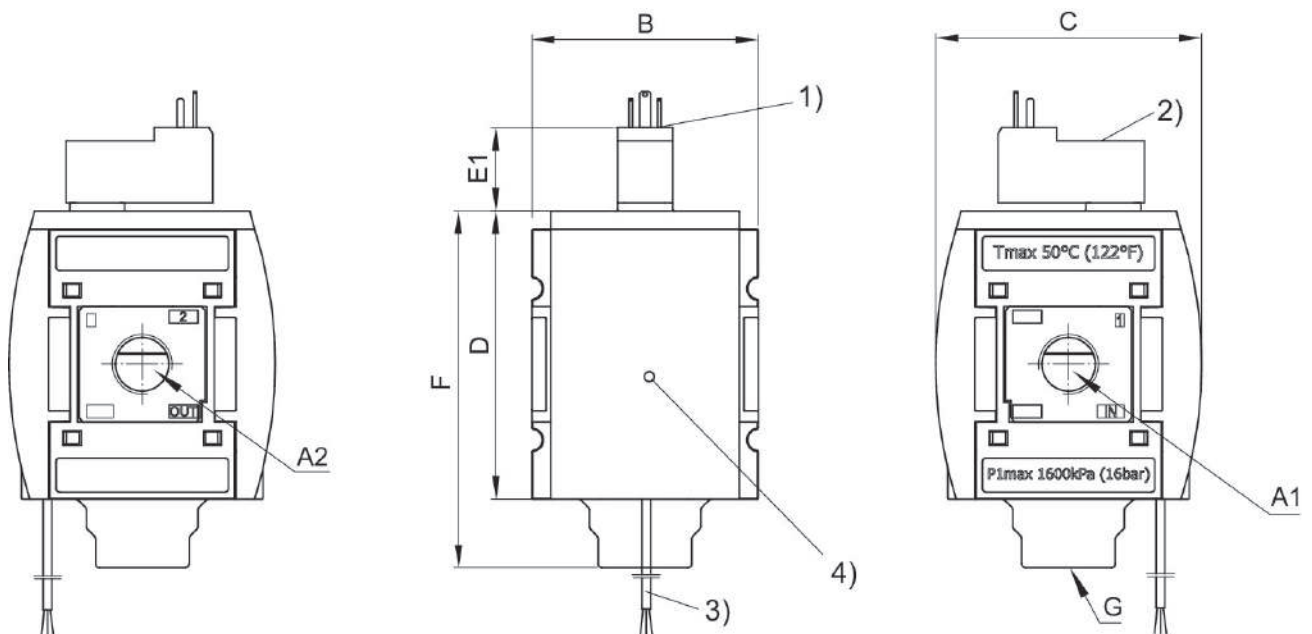
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

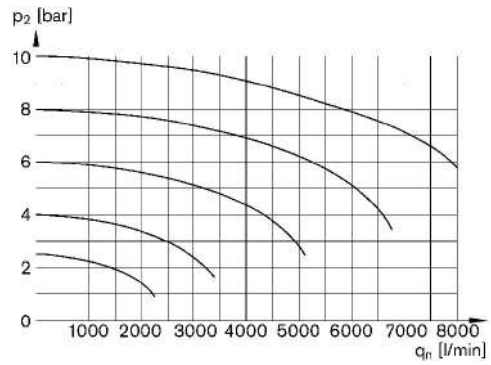
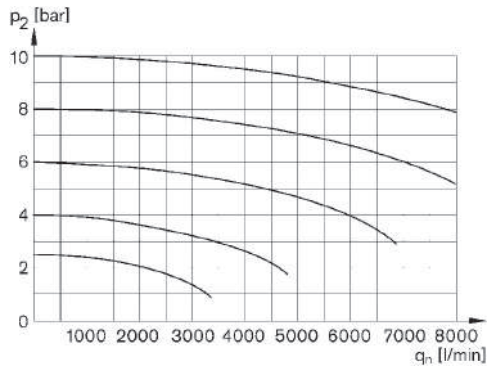


- A1 = input
 A2 = output
 1) Electr. connection: valve plug connector form C, ISO 15217
 2) Manual override
 3) Connection cable
 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|------|----|------|
| R412007360 | G1/2 | G1/2 | 63 | 74 | 80 | 23.2 | 99 | G1/2 |

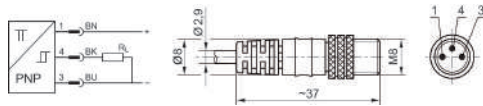
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust
 bar



p_2 = secondary pressure
 q_n = nominal flow

p_2 = secondary pressure
 q_n = nominal flow

PIN assignment sensor, plug M8



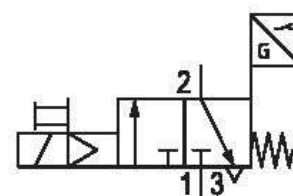
Pin assignment: 1 = (+) 3 = (-) 4 = (OUT)

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007377

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air
Neutral gases

Max. particle size
25 µm

Compressed air connection
G 3/8

Compressed air connection, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Power consumption DC
2 W

Protection class with connection
IP65

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

Electrical connection for sensor
without wire end ferrule, tin-plated

Cable length sensor
3 m

Weight
0.459 kg

Material

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene

Part No.
R412007377

Technical information

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

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

Can be used in circuits with increased efficiency.

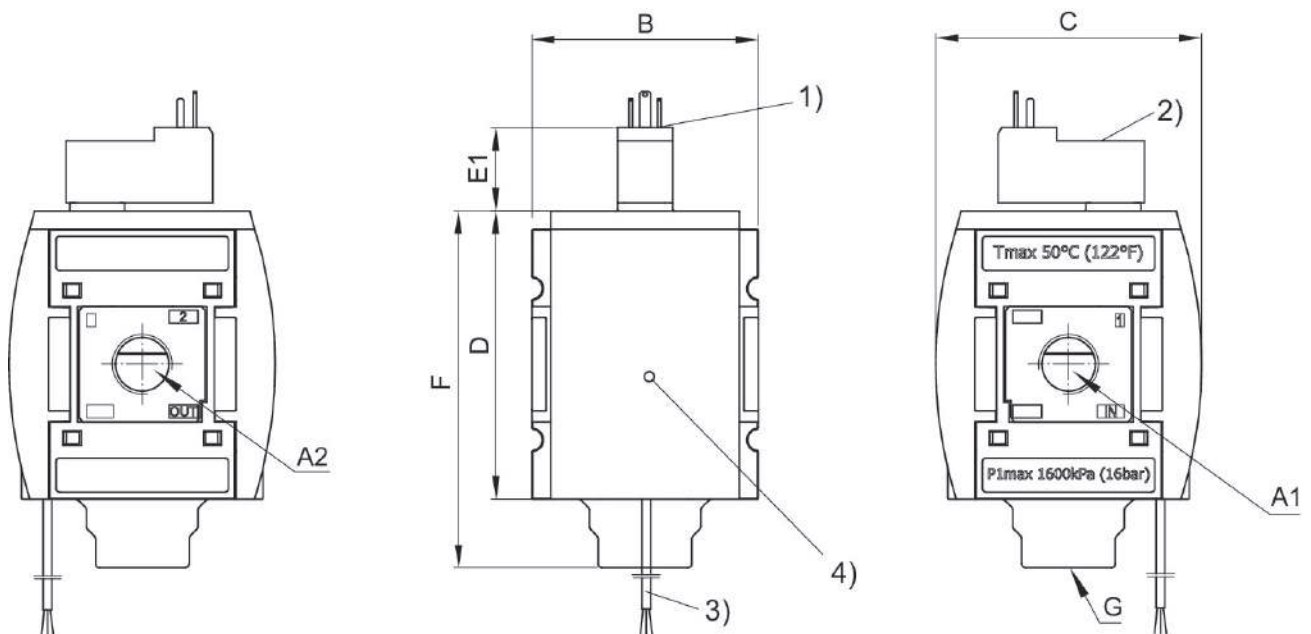
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Electronic sensor included in scope of delivery (assembled).+

Dimensions

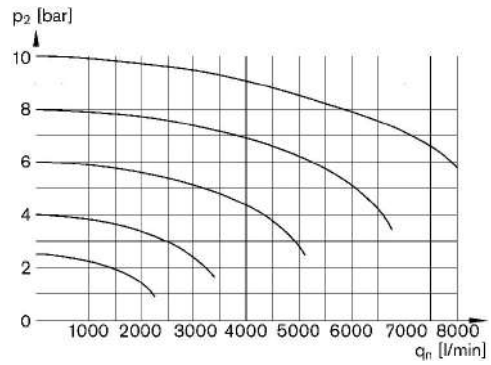
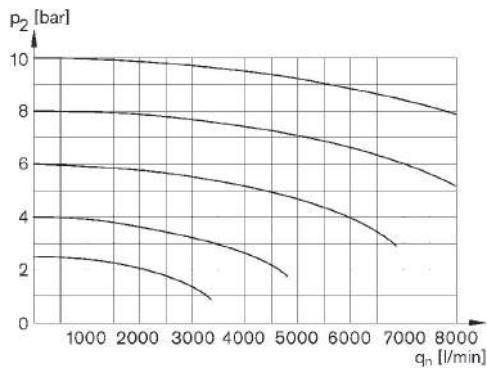


- A1 = input
 A2 = output
 1) Electr. connection: valve plug connector form C, ISO 15217
 2) Manual override
 3) Connection cable
 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|------|----|------|
| R412007377 | G3/8 | G3/8 | 63 | 74 | 80 | 23.2 | 99 | G1/2 |

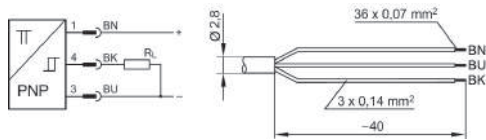
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

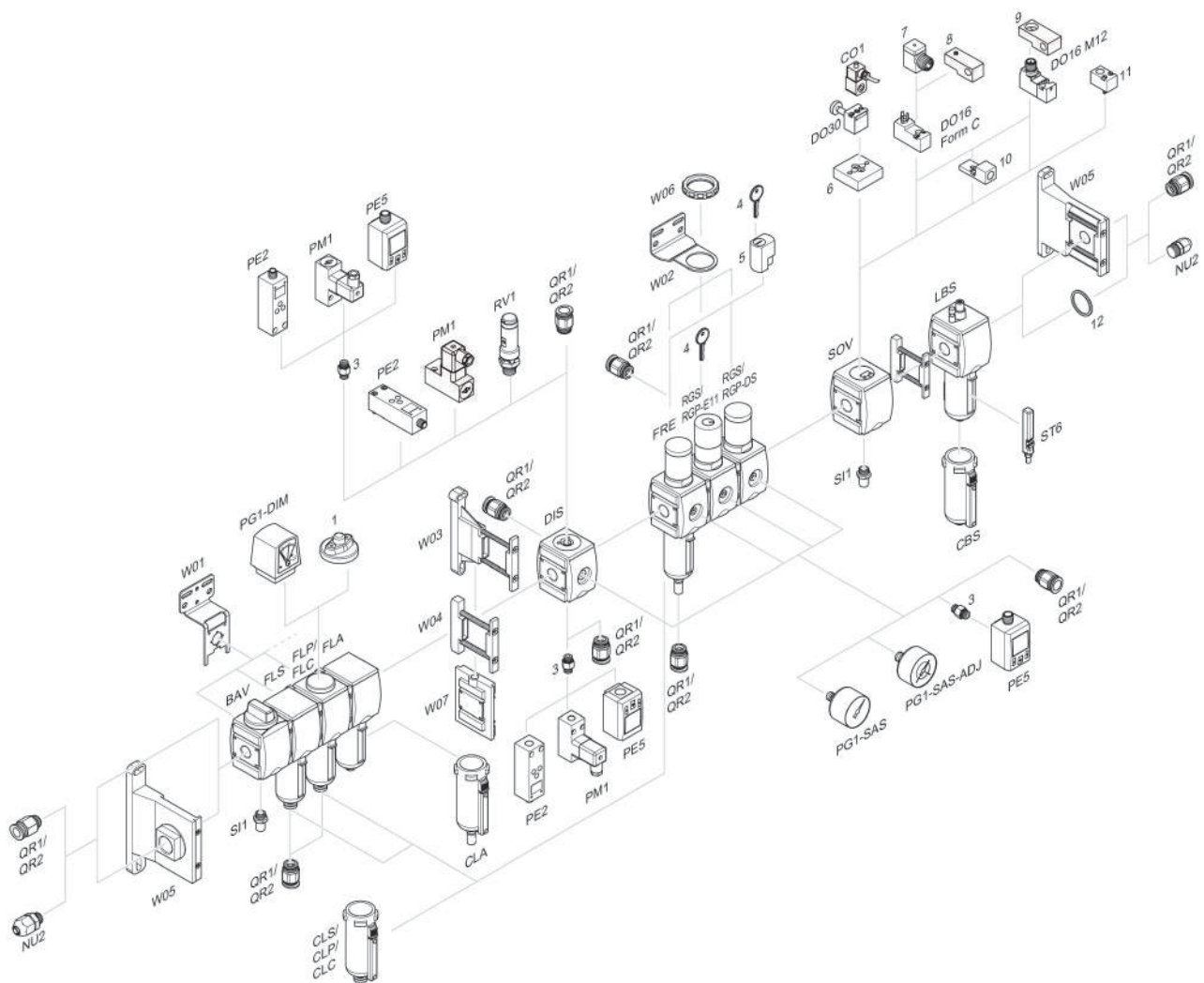
p_2 = secondary pressure
 q_n = nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
 BK = black
 BU = blue

Accessories overview



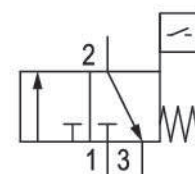
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007381

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks

Can be assembled into blocks

basic valve with electrical connector

Basic valve without pilot valve

Type

Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air

Neutral gases

Max. particle size
25 µm

Compressed air connection
G 3/8
Compressed air connection, exhaust
G 1/2
Nominal flow Qn 1 to 2
4500 l/min
Nominal flow Qn 2 to 3
3200 l/min

Electrical connection for sensor
without wire end ferrule, tin-plated
Cable length sensor
3 m
Weight
0.459 kg

Material

Housing material
Polyamide
Seal material
Acrylonitrile butadiene rubber
Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene
Part No.
R412007381

Technical information

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

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

Can be used in circuits with increased efficiency.

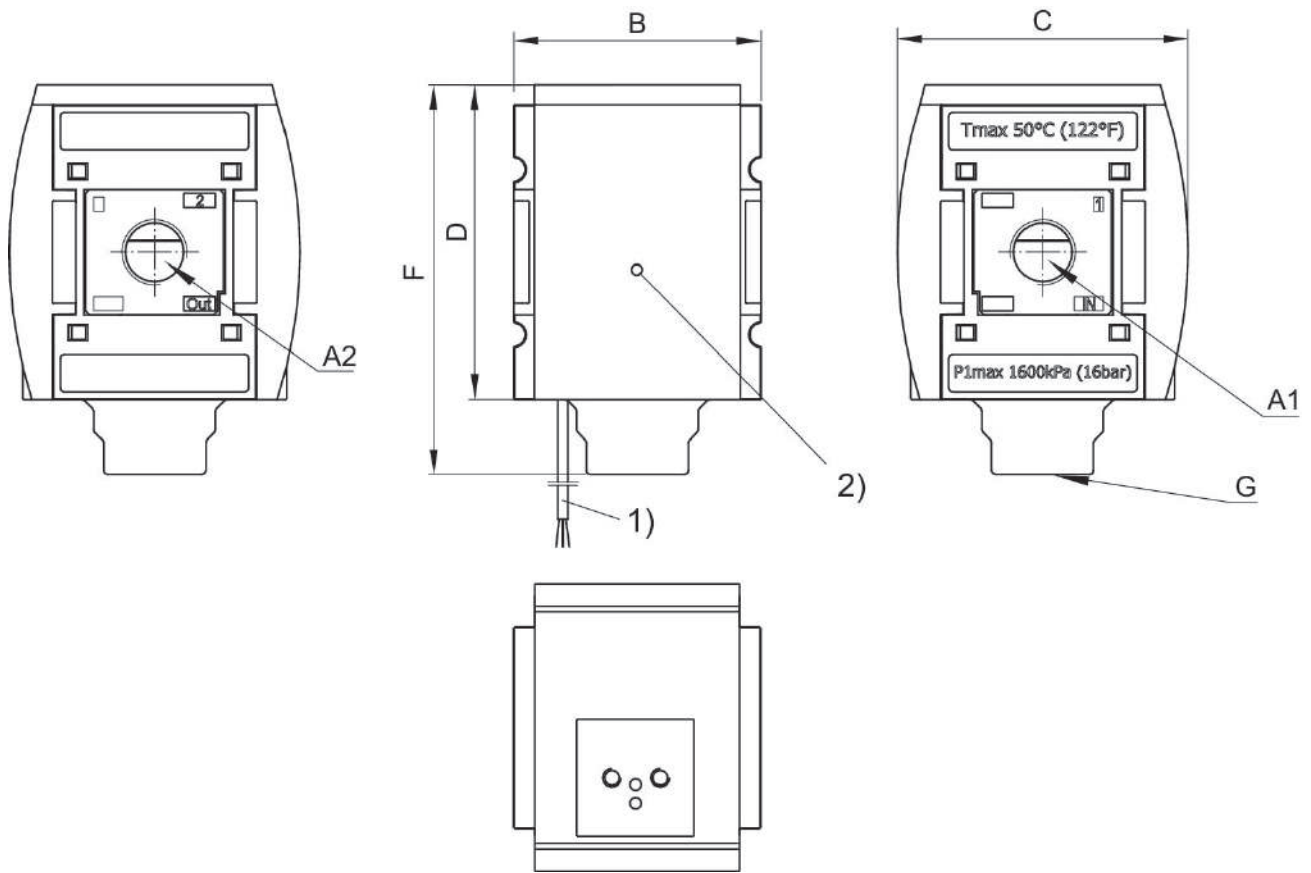
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

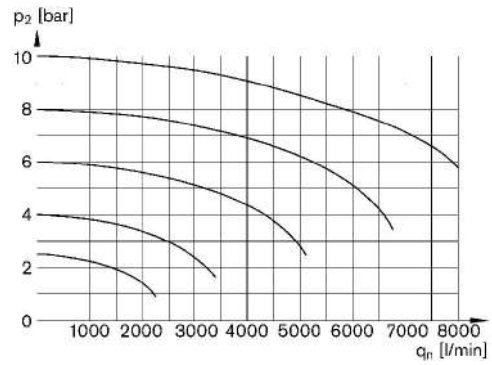
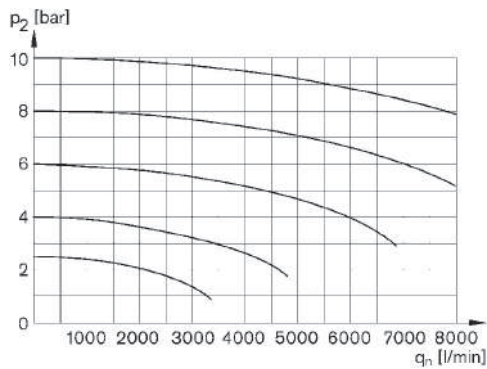


- A1 = input
 A2 = output
 1) Connection cable
 2) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | F | G |
|------------|------|------|----|----|----|----|------|
| R412007381 | G3/8 | G3/8 | 63 | 74 | 80 | 99 | G1/2 |

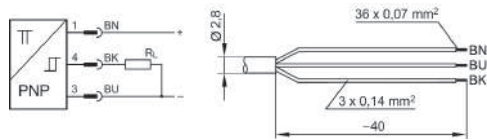
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

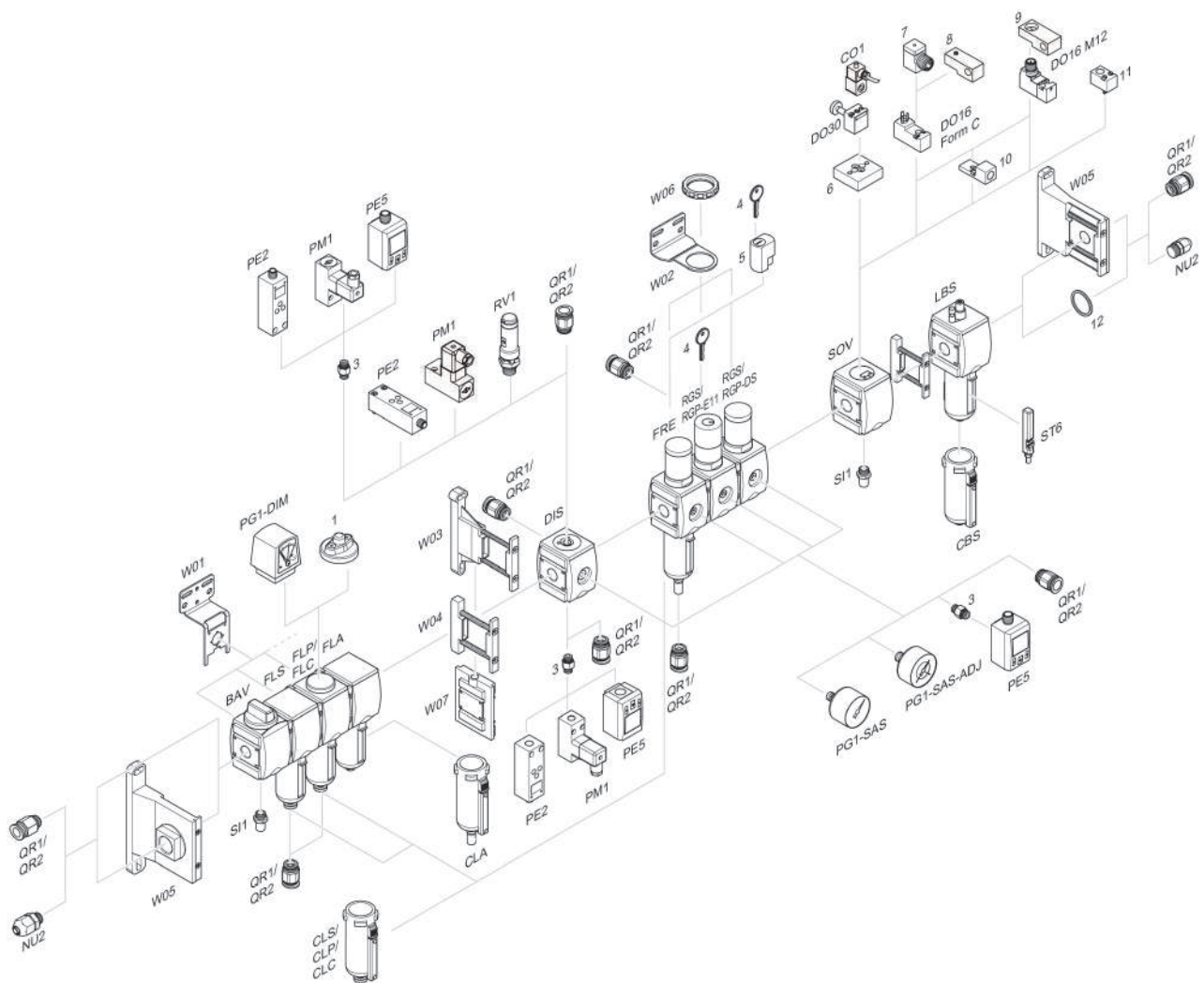
p_2 = secondary pressure
 q_n = nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
 BK = black
 BU = blue

Accessories overview



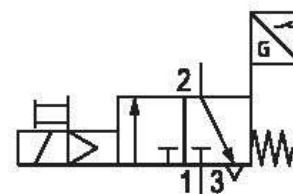
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007383

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
16 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air
Neutral gases

Max. particle size
25 µm

Compressed air connection
G 1/2

Compressed air connection, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Power consumption DC
2 W

Protection class with connection
IP65

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

Electrical connection for sensor
without wire end ferrule, tin-plated

Cable length sensor
3 m

Weight
0.459 kg

Material

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene

Part No.
R412007383

Technical information

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

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

Can be used in circuits with increased efficiency.

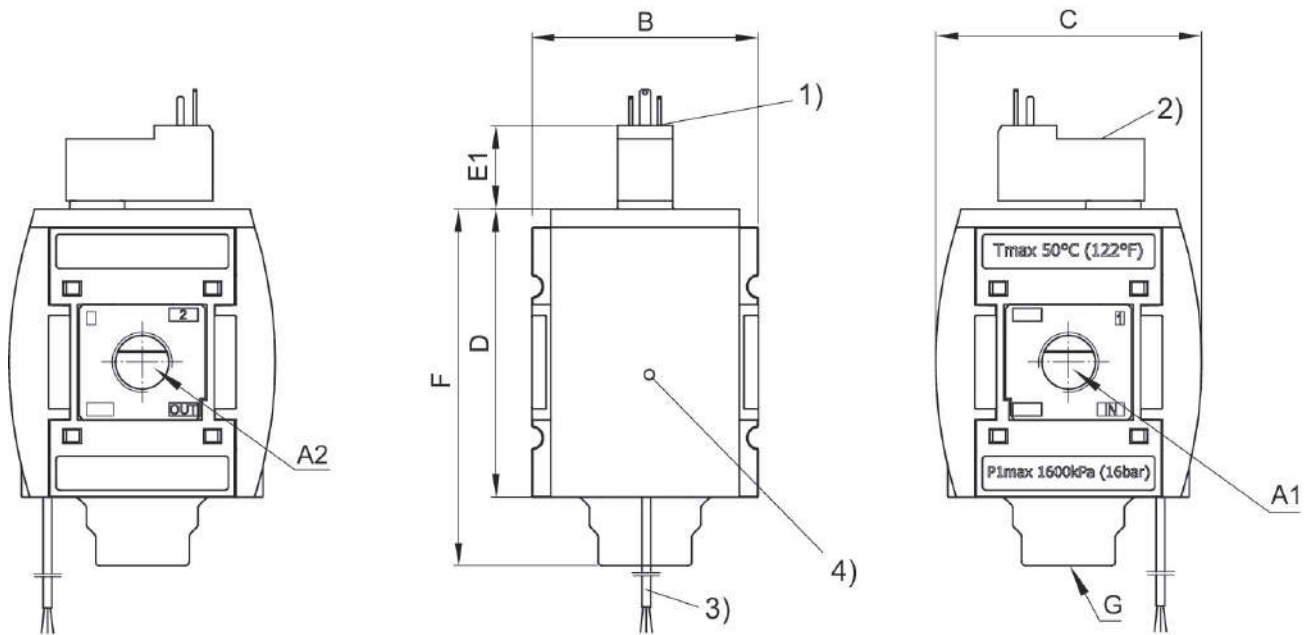
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Electronic sensor included in scope of delivery (assembled).+

Dimensions

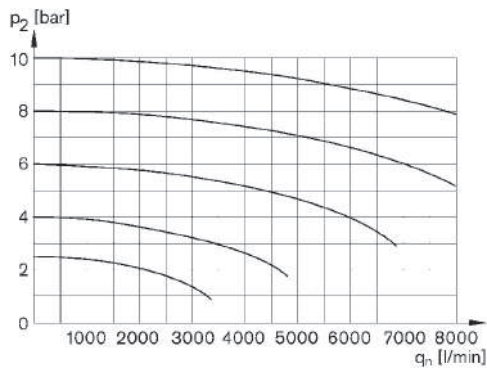


- A1 = input
 A2 = output
 1) Electr. connection: valve plug connector form C, ISO 15217
 2) Manual override
 3) Connection cable
 4) Optical switch status indicator

Dimensions in mm

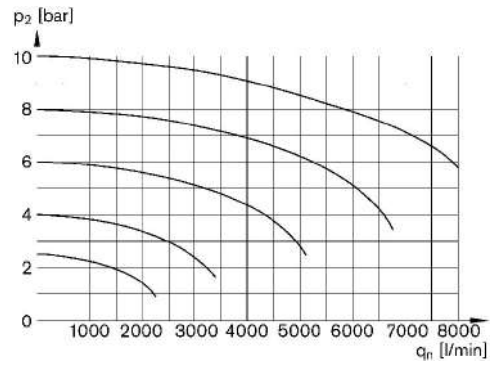
| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|------|----|------|
| R412007383 | G1/2 | G1/2 | 63 | 74 | 80 | 23.2 | 99 | G1/2 |

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



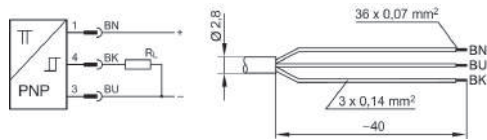
p_2 = secondary pressure
 q_n = nominal flow

Rear exhaust



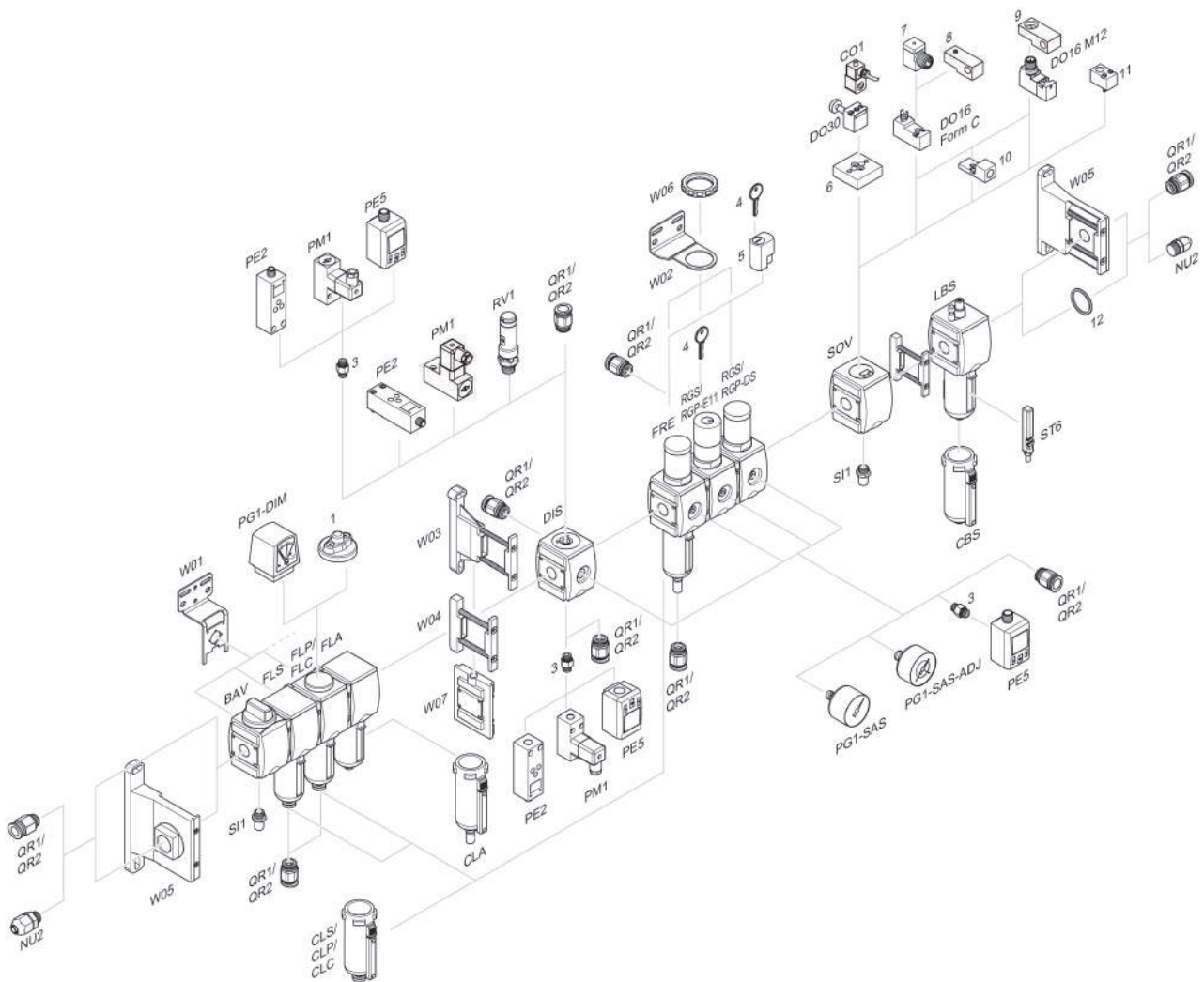
p_2 = secondary pressure
 q_n = nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
 BK = black
 BU = blue

Accessories overview



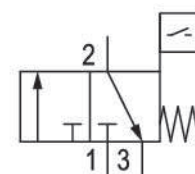
1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007387

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks

Can be assembled into blocks

basic valve with electrical connector

Basic valve without pilot valve

Type

Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air

Neutral gases

Max. particle size
25 µm

Compressed air connection
G 1/2
Compressed air connection, exhaust
G 1/2
Nominal flow Qn 1 to 2
4500 l/min
Nominal flow Qn 2 to 3
3200 l/min

Electrical connection for sensor
without wire end ferrule, tin-plated
Cable length sensor
3 m
Weight
0.459 kg

Material

Housing material
Polyamide
Seal material
Acrylonitrile butadiene rubber
Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene
Part No.
R412007387

Technical information

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

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

Can be used in circuits with increased efficiency.

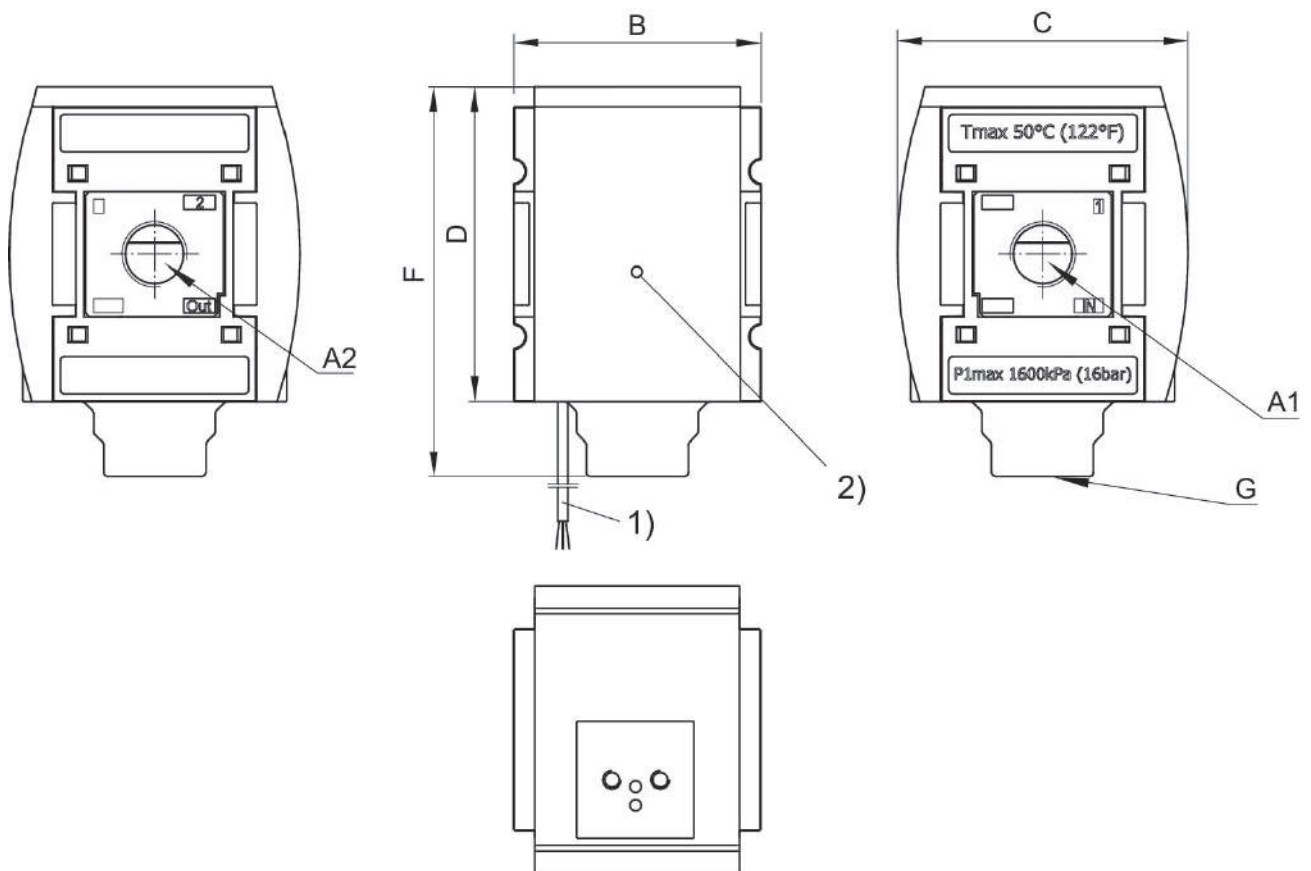
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

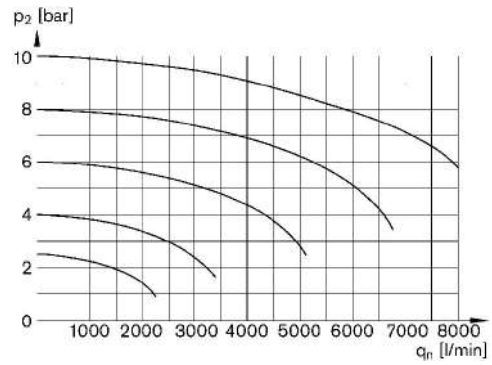
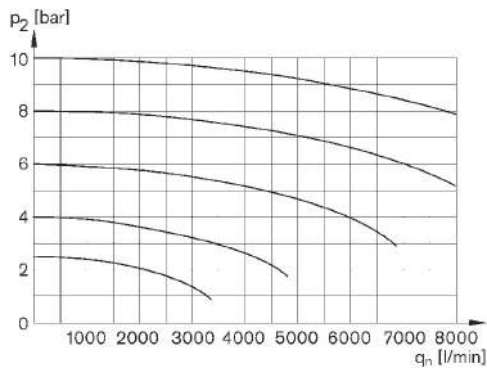


- A1 = input
 A2 = output
 1) Connection cable
 2) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | F | G |
|------------|------|------|----|----|----|----|------|
| R412007387 | G1/2 | G1/2 | 63 | 74 | 80 | 99 | G1/2 |

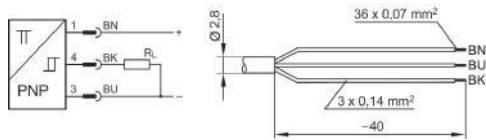
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

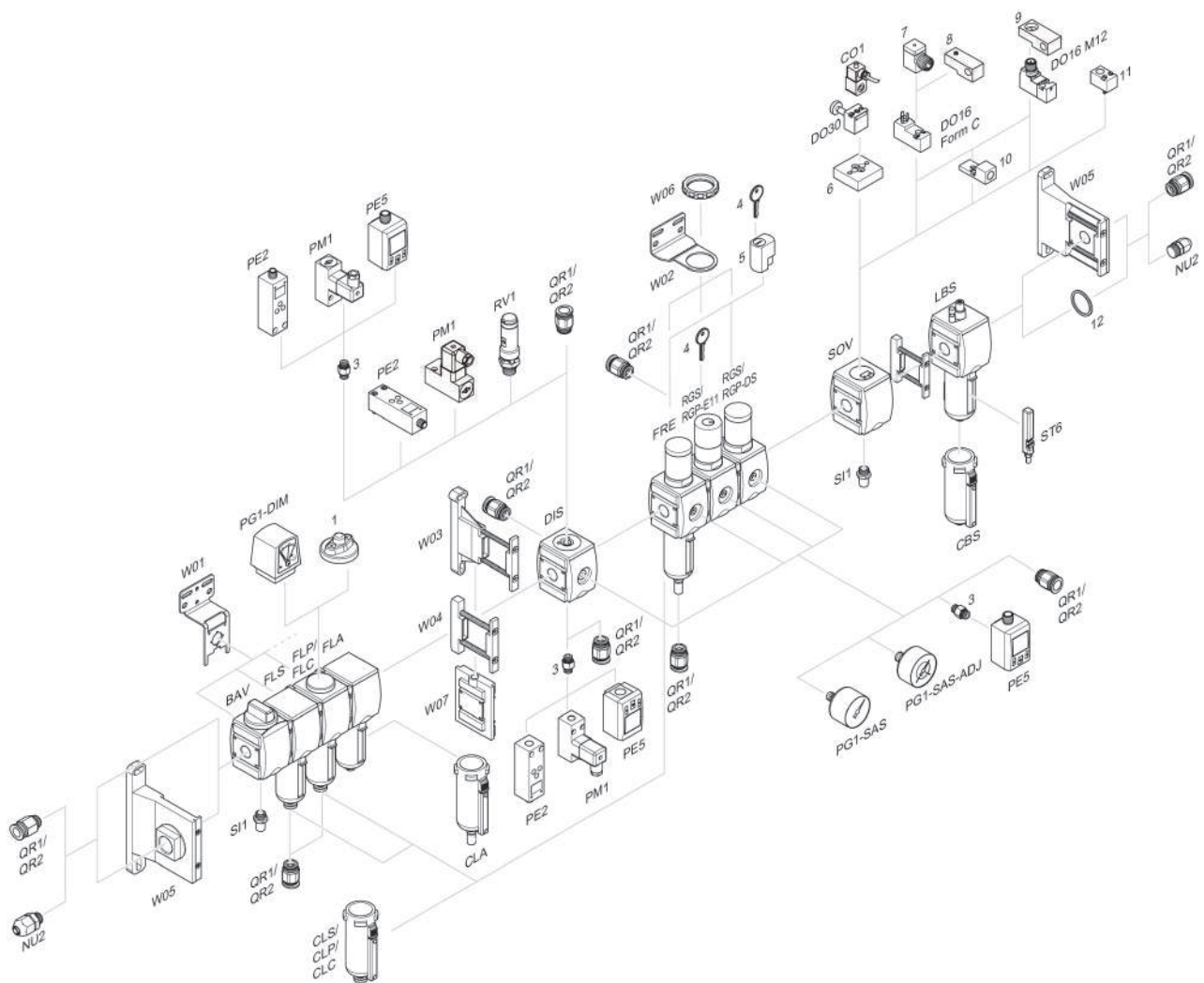
p_2 = secondary pressure
 q_n = nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
 BK = black
 BU = blue

Accessories overview



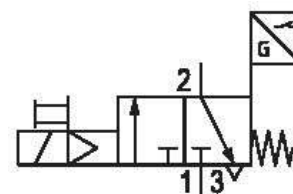
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3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007396

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Q_n
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air
Neutral gases

Max. particle size
25 µm

Compressed air connection
G 3/8

Compressed air connection, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Power consumption DC
2 W

Electrical connection type 2
Socket

Electrical connection 2, thread size
M12x1

Electrical connection for sensor
without wire end ferrule, tin-plated

Cable length sensor
3 m

Weight
0.459 kg

Material

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene

Part No.
R412007396

Technical information

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

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

Can be used in circuits with increased efficiency.

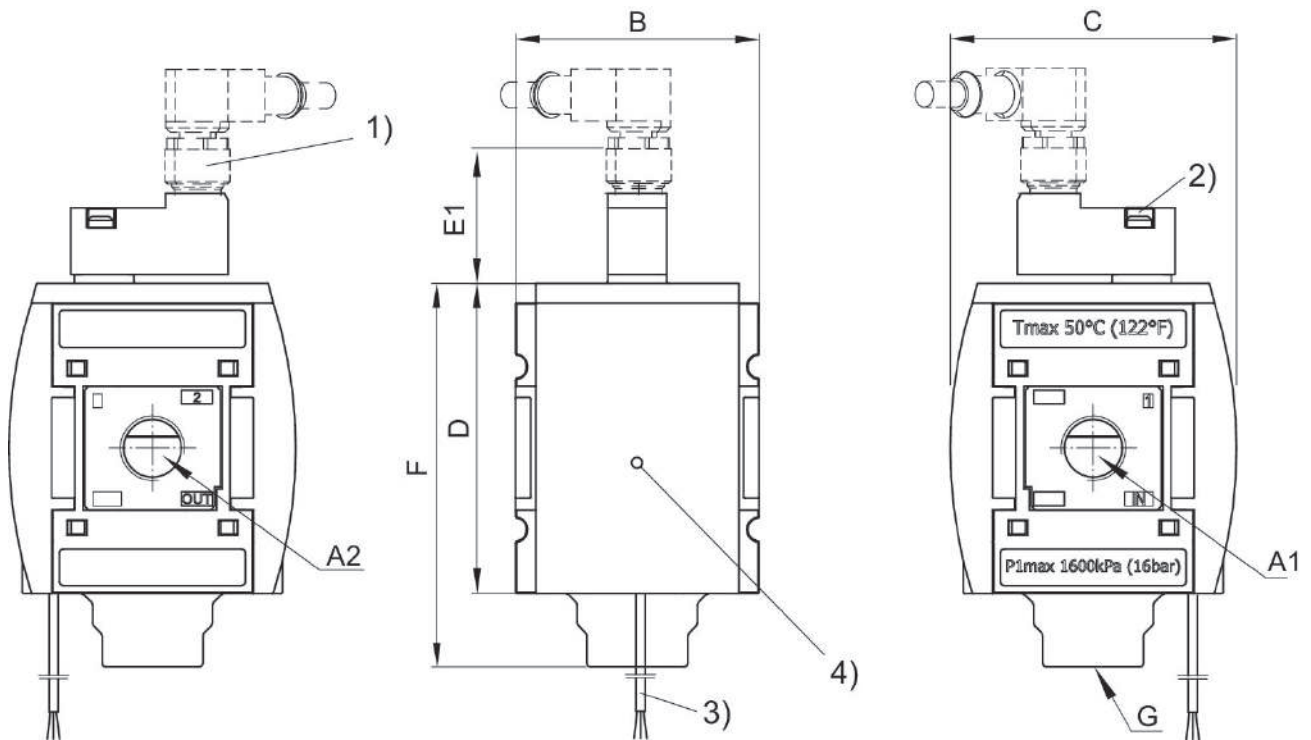
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

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

Electronic sensor included in scope of delivery (assembled).+

Dimensions

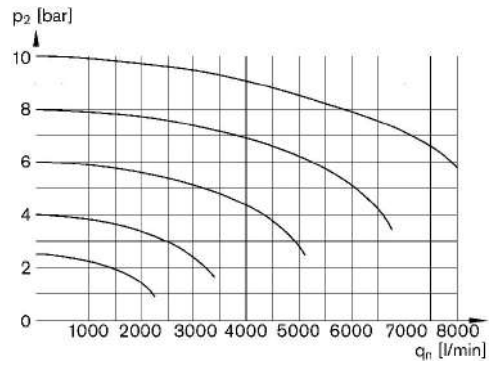
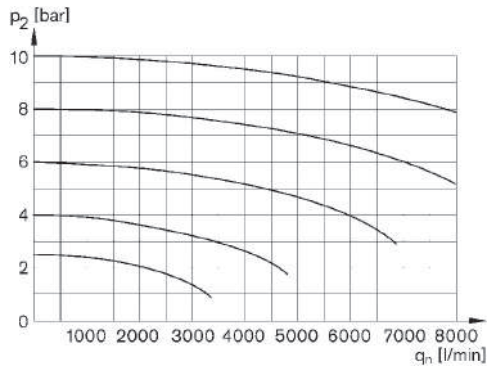


- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

Dimensions in mm

| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|----|----|------|
| R412007396 | G3/8 | G3/8 | 63 | 74 | 80 | 39 | 99 | G1/2 |

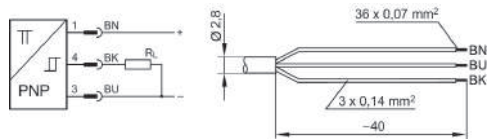
Flow rate characteristic, $p_2 = 0,05 - 7$ bar Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

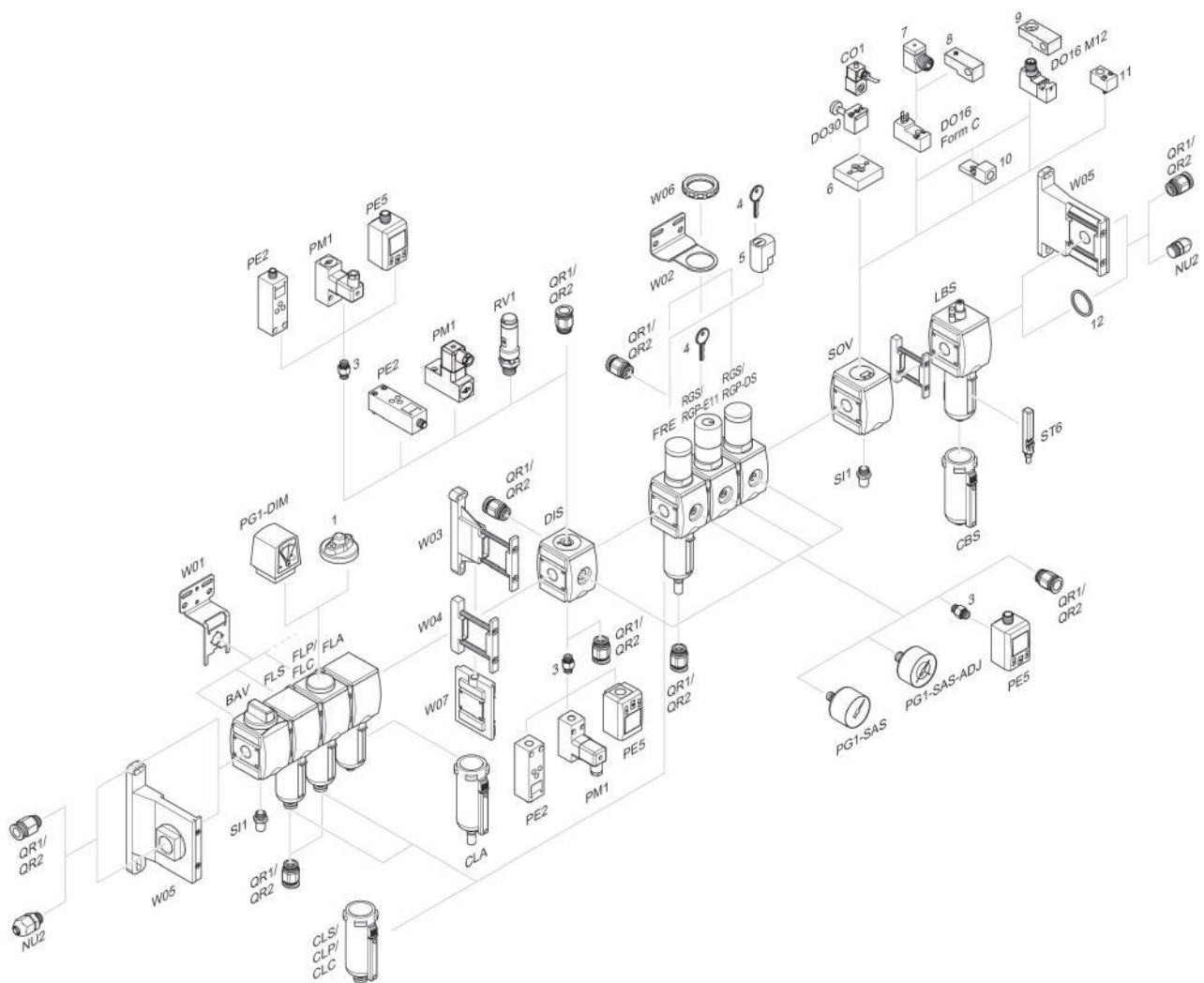
p_2 = secondary pressure
 q_n = nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
 BK = black
 BU = blue

Accessories overview



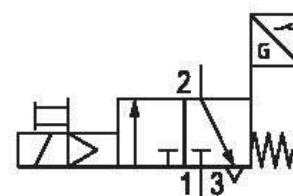
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3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007398

General series information Series AS3

- The AVENTICS Series AS3 is a modular, versatile maintenance unit for universal application. This Series offers compact dimensions, is highly efficient, lightweight and easy-to-use. The AVENTICS Series AS guarantees reliability, safety, and efficiency with a simplified assembly and maintenance efforts.



Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Working pressure min.
2.5 bar

Working pressure max
10 bar

DC operating voltage
24 V

Sealing principle
Soft Seal

Connection type
Pipe connection

Parts
3/2-directional valve

Can be assembled into blocks
Can be assembled into blocks

basic valve with electrical connector
Basic valve with pilot valve

Type
Poppet valve

Min. ambient temperature
-10 °C

Max. ambient temperature
50 °C

Medium

Compressed air
Neutral gases

Max. particle size
25 µm

Compressed air connection
G 1/2

Compressed air connection, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Power consumption DC
2 W

Protection class with connection
IP65

Electrical connection type 2
Socket

Electrical connection 2, thread size
M12x1

Electrical connection for sensor
without wire end ferrule, tin-plated

Cable length sensor
3 m

Weight
0.459 kg

Material

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

Material threaded bushing
Die cast zinc

Material front plate
Acrylonitrile butadiene styrene

Part No.
R412007398

Technical information

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

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

Can be used in circuits with increased efficiency.

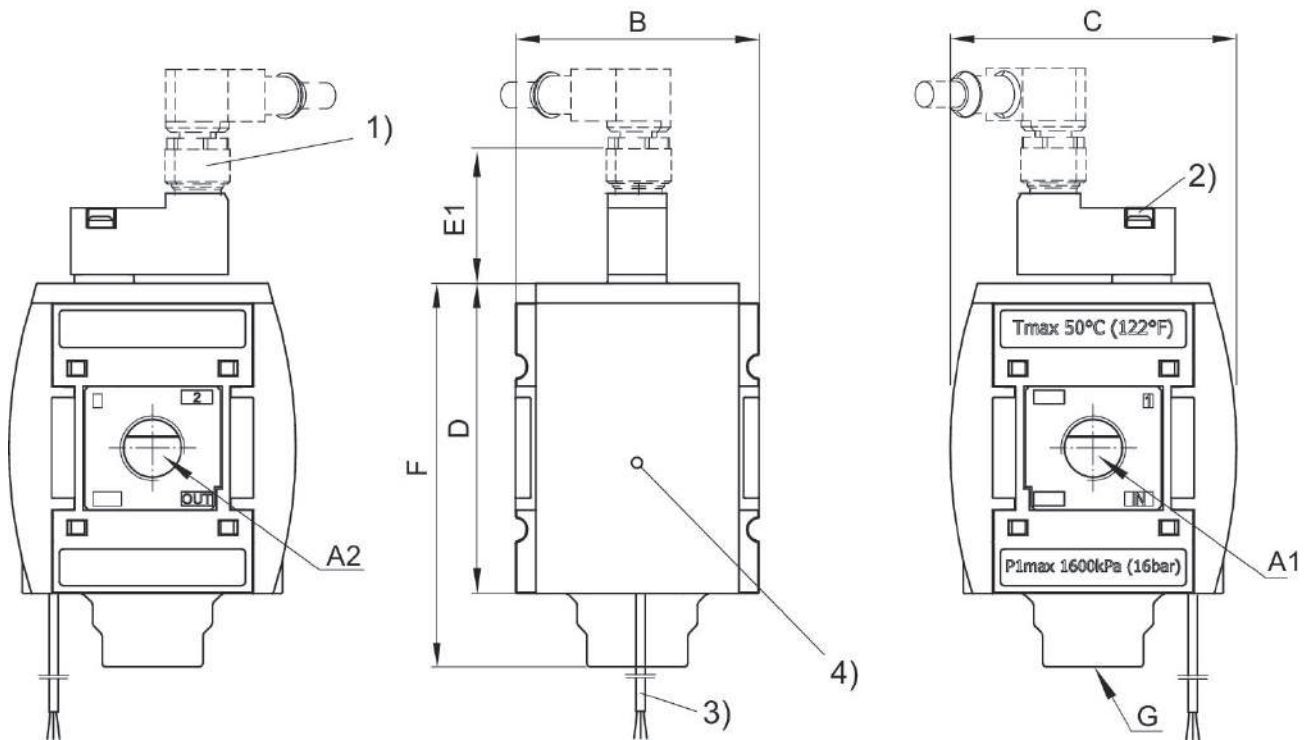
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

The sensor signal is visible on the front of the cover.

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Electronic sensor included in scope of delivery (assembled).+

Dimensions

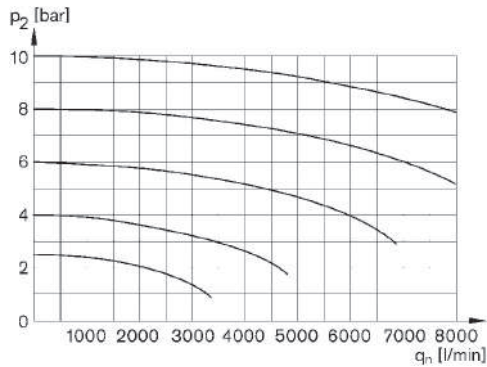


- A1 = input
- A2 = output
- 1) plug M12
- 2) Manual override
- 3) Connection cable
- 4) Optical switch status indicator

Dimensions in mm

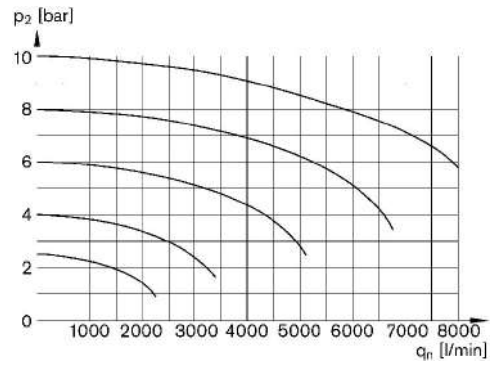
| Part No. | A1 | A2 | B | C | D | E1 | F | G |
|------------|------|------|----|----|----|----|----|------|
| R412007398 | G1/2 | G1/2 | 63 | 74 | 80 | 39 | 99 | G1/2 |

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



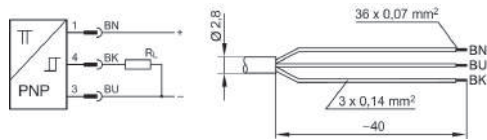
p_2 = secondary pressure
 q_n = nominal flow

Rear exhaust



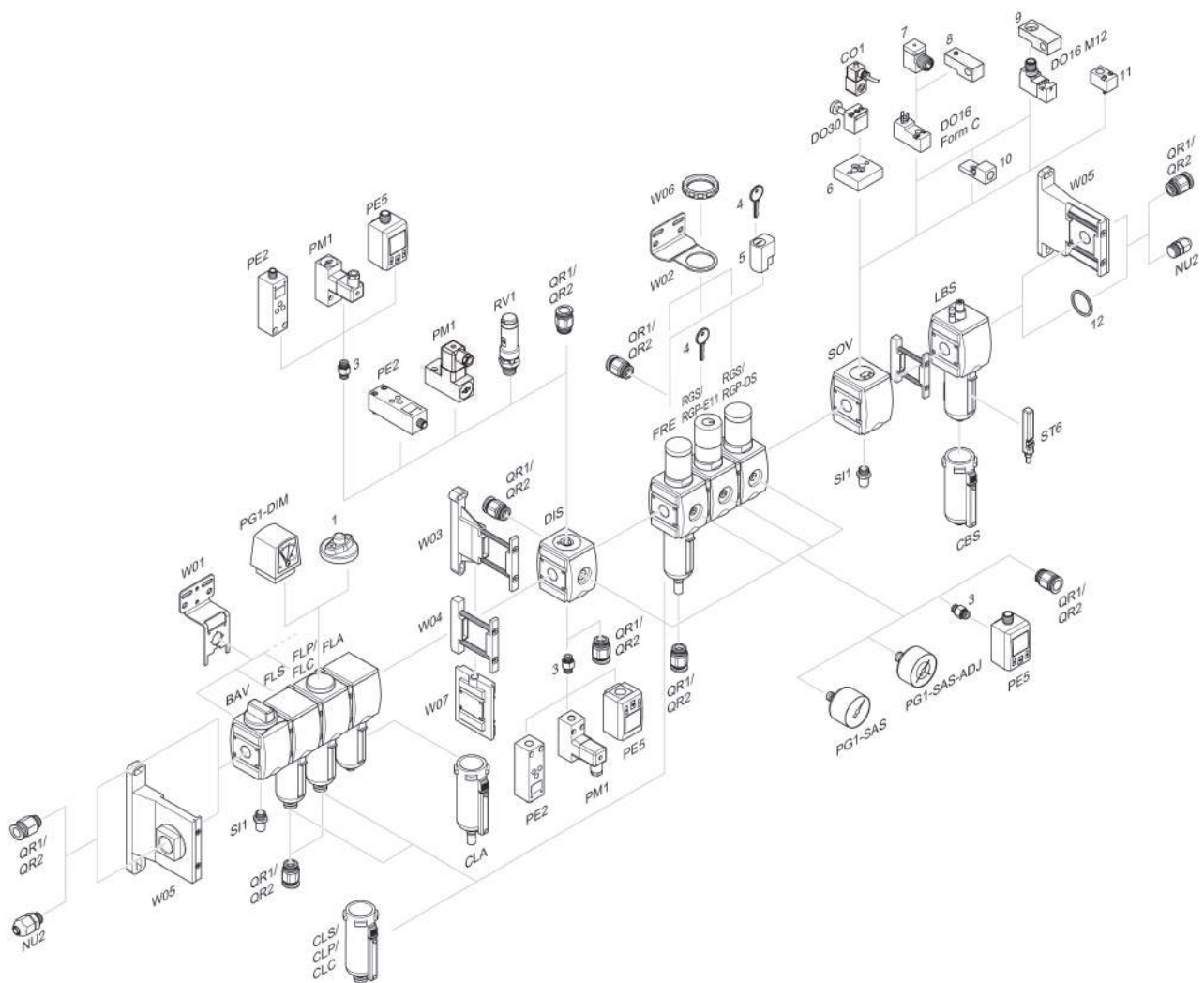
p_2 = secondary pressure
 q_n = nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
 BK = black
 BU = blue

Accessories overview



1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

3/2-directional valve, pneumatically operated, Series AS3-SOV

- Compressed air connection G 3/8 G 1/2
- Pipe connection



Version

Sealing principle

Working pressure min./max.

Control pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Weight

Poppet valve, Can be assembled into blocks

Soft sealing

0 ... 16 bar

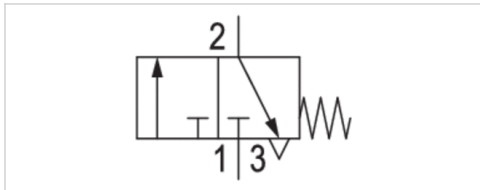
2.5 ... 16 bar

-10 ... 50 °C

-10 ... 50 °C

Compressed air Neutral gases

0.459 kg



Technical data

| Part No. | Port | Pilot connection | Exhaust | Flow | Flow | Flow |
|------------|-------|------------------|---------|------------|------------|------------|
| | | | | Qn | Qn 1→2 | Qn 2→3 |
| R412007262 | G 3/8 | G 1/8 | G 1/2 | 4500 l/min | 4500 l/min | 3200 l/min |
| R412007263 | G 1/2 | G 1/8 | G 1/2 | 4500 l/min | 4500 l/min | 3200 l/min |

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

Technical information

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

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

Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

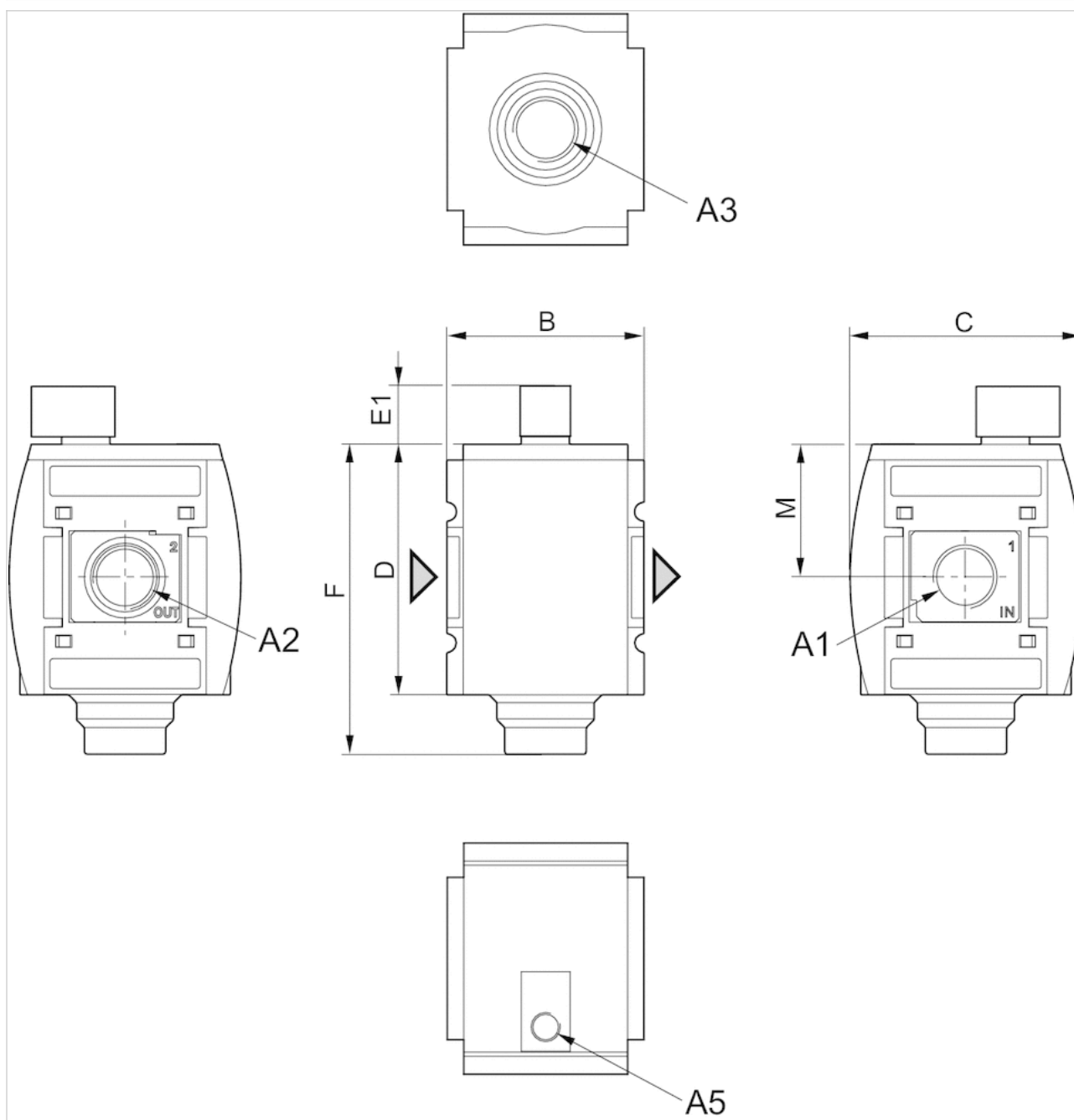
Material

Threaded bushing

Die cast zinc

Dimensions

Dimensions



A1 = input

A2 = output

A3 = ventilation port

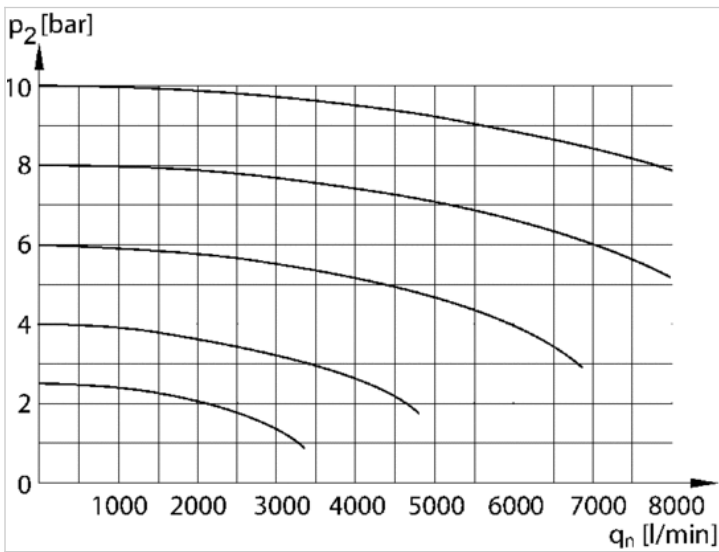
A5 = control pressure connection

Dimensions in mm

| A1 | A2 | A3 | A5 | B | C | D | E1 | F | M |
|-------|-------|-------|-------|----|----|----|------|----|------|
| G 3/8 | G 3/8 | G 1/2 | G 1/8 | 63 | 74 | 80 | 18.5 | 99 | 42.5 |
| G 1/2 | G 1/2 | G 1/2 | G 1/8 | 63 | 74 | 80 | 18.5 | 99 | 42.5 |

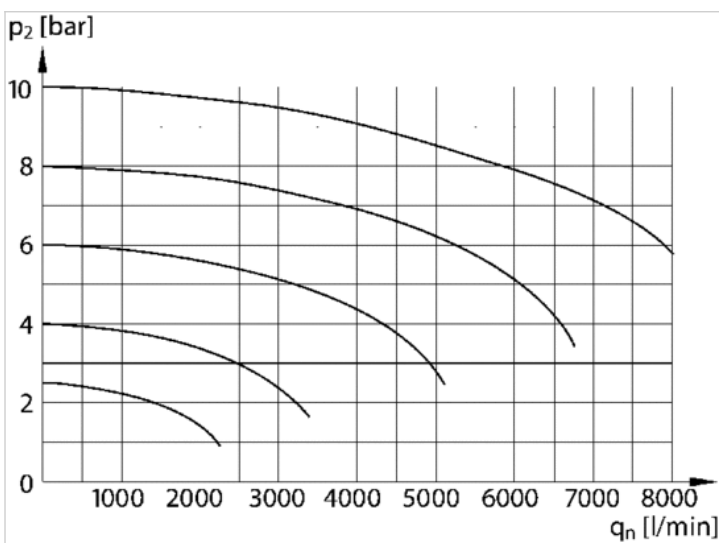
Diagrams

Flow rate characteristic



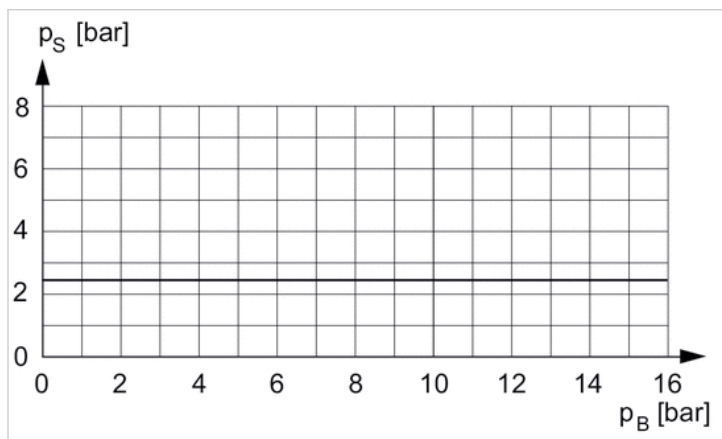
p2 = secondary pressure
qn = nominal flow

Rear exhaust



p2 = secondary pressure
qn = nominal flow

control pressure characteristic

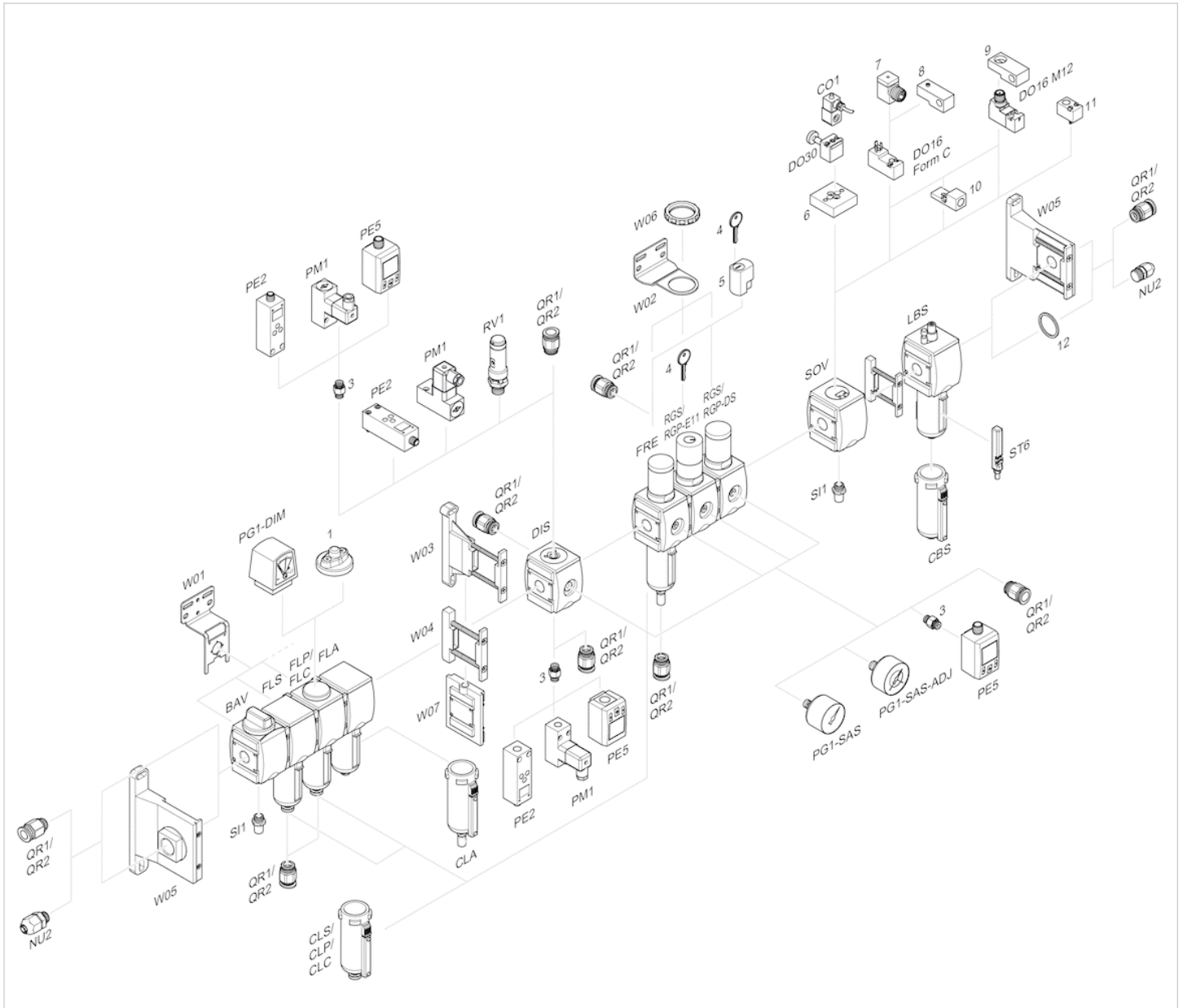


minimum pilot pressure depending on working pressure

PS = control pressure

PB= Working pressure

Accessories overview



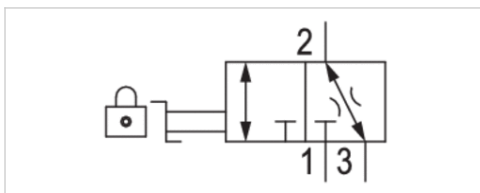
- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

3/2-shut-off valve, mechanically operated, Series AS3-BAV

- Qn 1►2 = 11000 l/min
- Qn 2►3 = 130 l/min
- Compressed air connection output G 3/8 G 1/2



| | |
|-------------------------------|------------------------------|
| Version | Ball valve |
| Activation | Mechanical |
| Lock type | lockable |
| Actuating element | rotary switch |
| Sealing principle | metal/metal sealing |
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Max. particle size | 25 µm |
| Weight | 0.446 kg |



Technical data

| Part No. | Compressed air connection type | Compressed air connection Input | Compressed air connection Output |
|------------|--------------------------------|---------------------------------|----------------------------------|
| R412007260 | Internal thread | G 3/8 | G 3/8 |
| R412007261 | Internal thread | G 1/2 | G 1/2 |

| Part No. | Compressed air connection Exhaust | Flow | | Lock type | Locking base |
|------------|-----------------------------------|-------------|-----------|--------------|---------------|
| | | Qn 1 ► 2 | Qn 2 ► 3 | | |
| R412007260 | G 1/2 | 11000 l/min | 130 l/min | for padlocks | Die cast zinc |
| R412007261 | G 1/2 | 11000 l/min | 130 l/min | for padlocks | Die cast zinc |

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

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

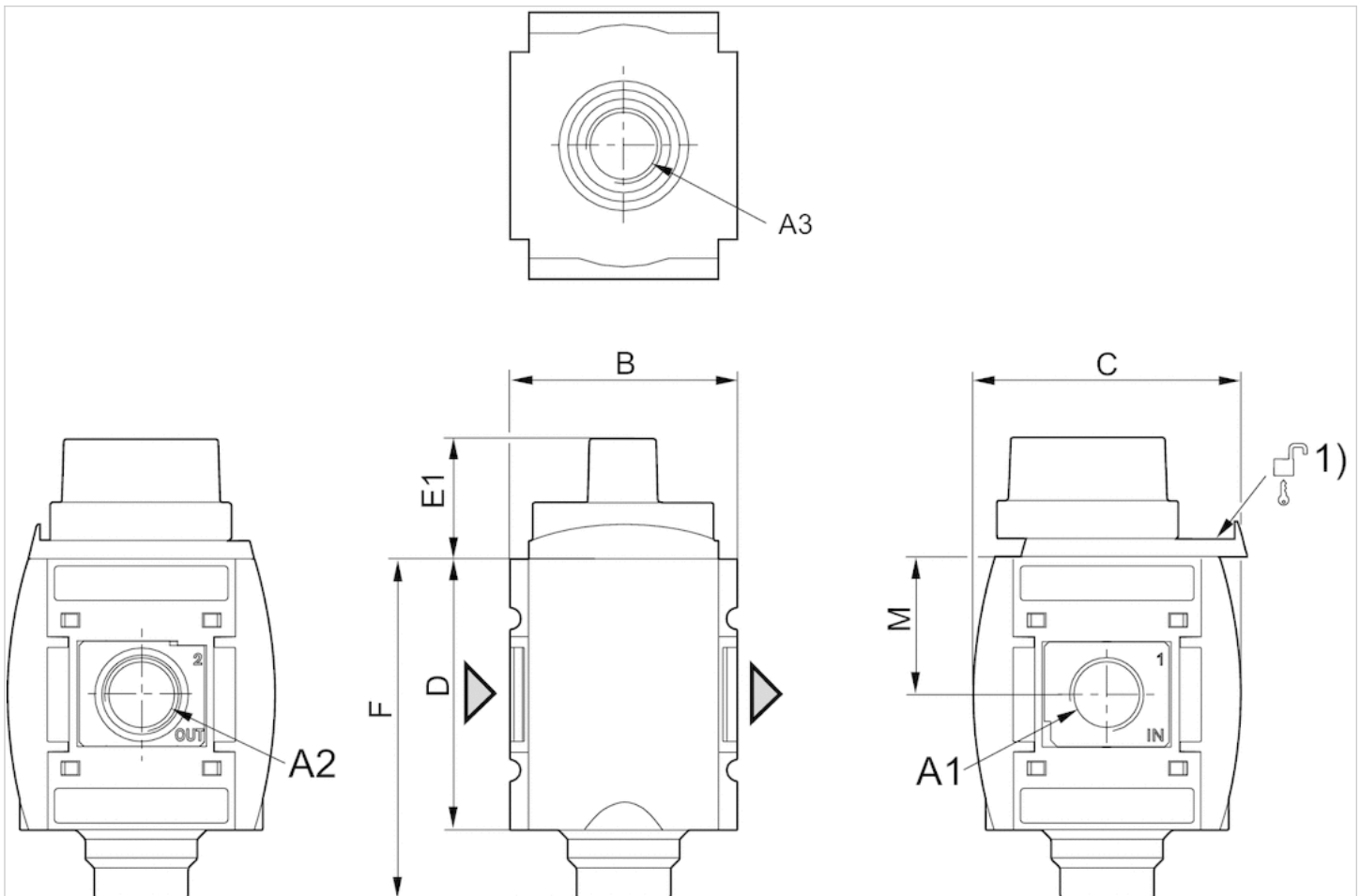
Technical information

Material

| | |
|-------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Polytetrafluorethylene |
| Threaded bushing | Die cast zinc |
| Actuating element | Polyoxymethylene |
| Locking base | Die cast zinc |

Dimensions

Dimensions



A1 = input

A2 = output

A3 = ventilation port

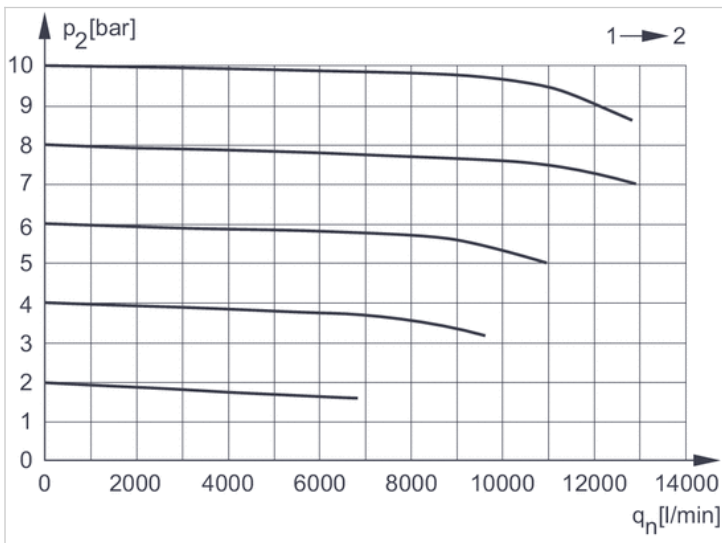
1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

| A2 | A3 | B | C | D | E1 | F | M |
|-------|-------|----|----|----|----|----|------|
| G 3/8 | G 1/2 | 63 | 74 | 80 | 28 | 99 | 42.5 |
| G 1/2 | G 1/2 | 63 | 74 | 80 | 28 | 99 | 42.5 |

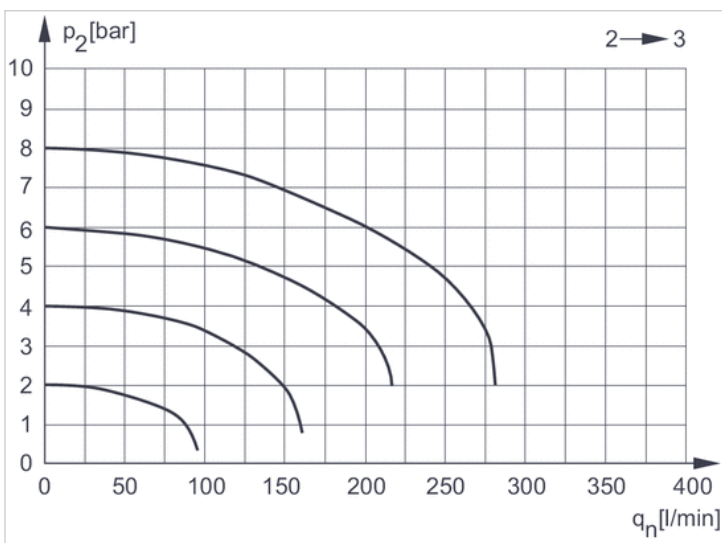
Diagrams

Flow rate characteristic



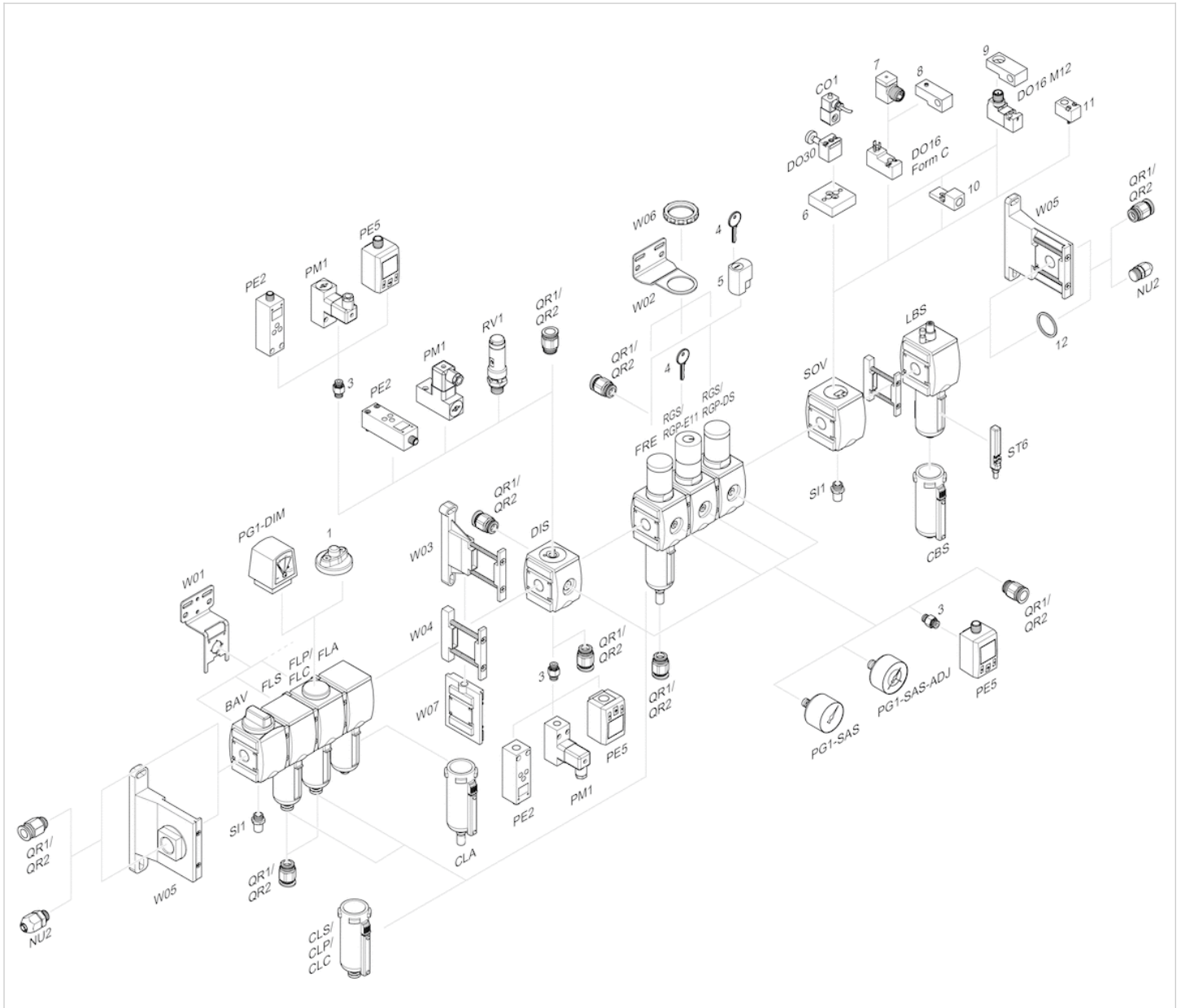
p2 = secondary pressure
qn = nominal flow

Rear exhaust



p2 = secondary pressure
qn = nominal flow

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Distributor, Series AS3-DIS

- G 3/8 G 1/2

- Distributor 4x



Version

Parts

Mounting orientation

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Weight

Can be assembled into blocks

Distributor

Any

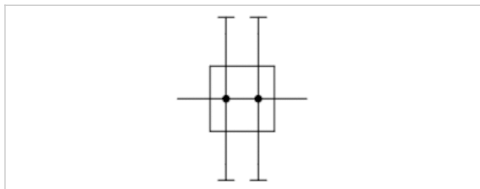
0 ... 16 bar

-10 ... 50 °C

-10 ... 50 °C

Compressed air Neutral gases

0.32 kg



Technical data

| Part No. | Port | Nominal flow | Nominal flow | Nominal flow | Nominal flow | Nominal flow |
|------------|-------|--------------|--------------|--------------|--------------|--------------|
| | | Qn 1►2 | Qn 1►3 | Qn 1►4 | Qn 1►5 | Qn 1►6 |
| R412007250 | G 3/8 | 7250 l/min | 5500 l/min | 2300 l/min | 2250 l/min | 2300 l/min |
| R412007251 | G 1/2 | 7250 l/min | 5500 l/min | 2300 l/min | 2250 l/min | 2300 l/min |

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

Technical information

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

Suitable for direct mounting of a PE2 and PM1 series pressure sensor (flange version).

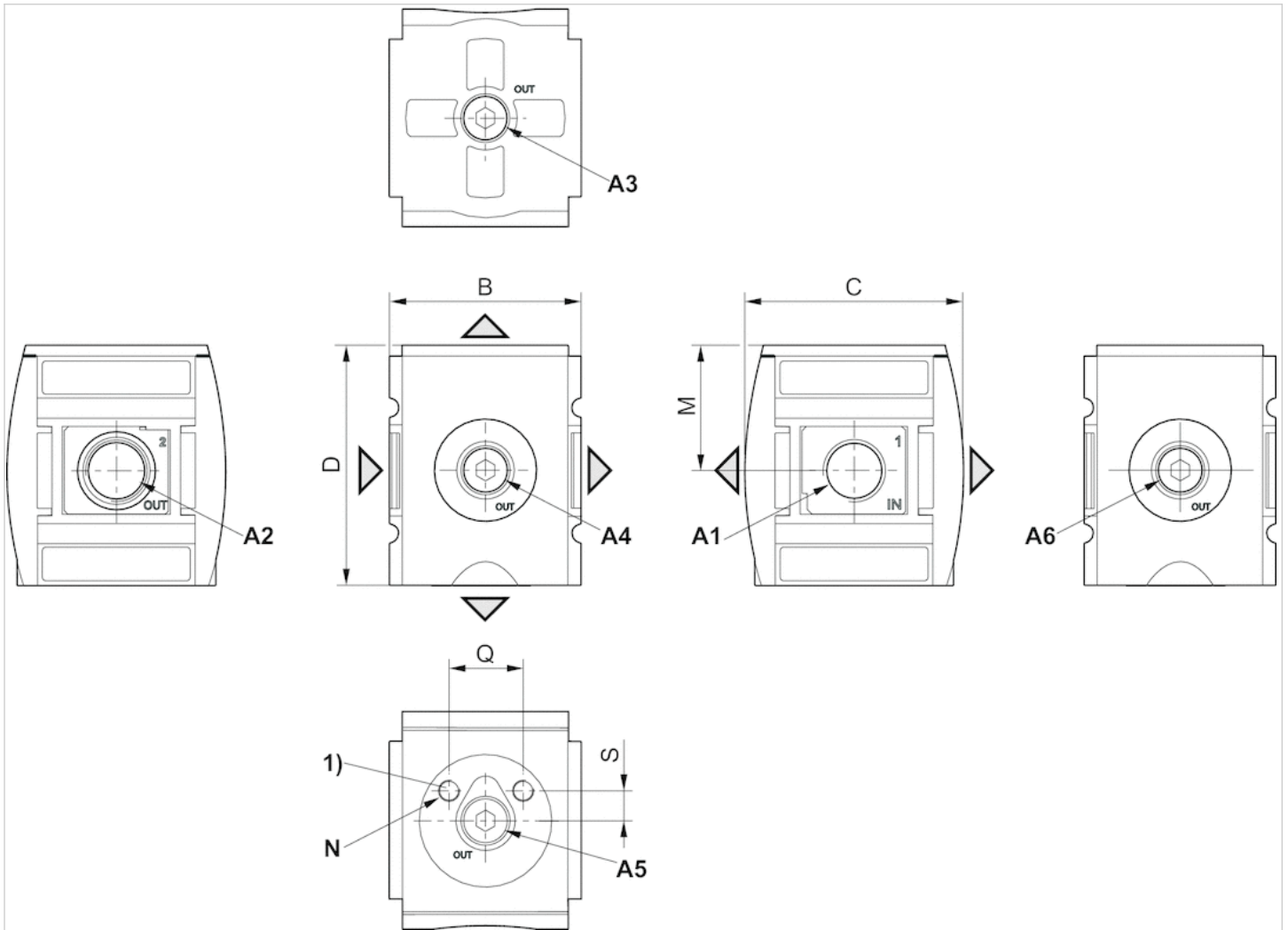
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

| Material | |
|------------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions

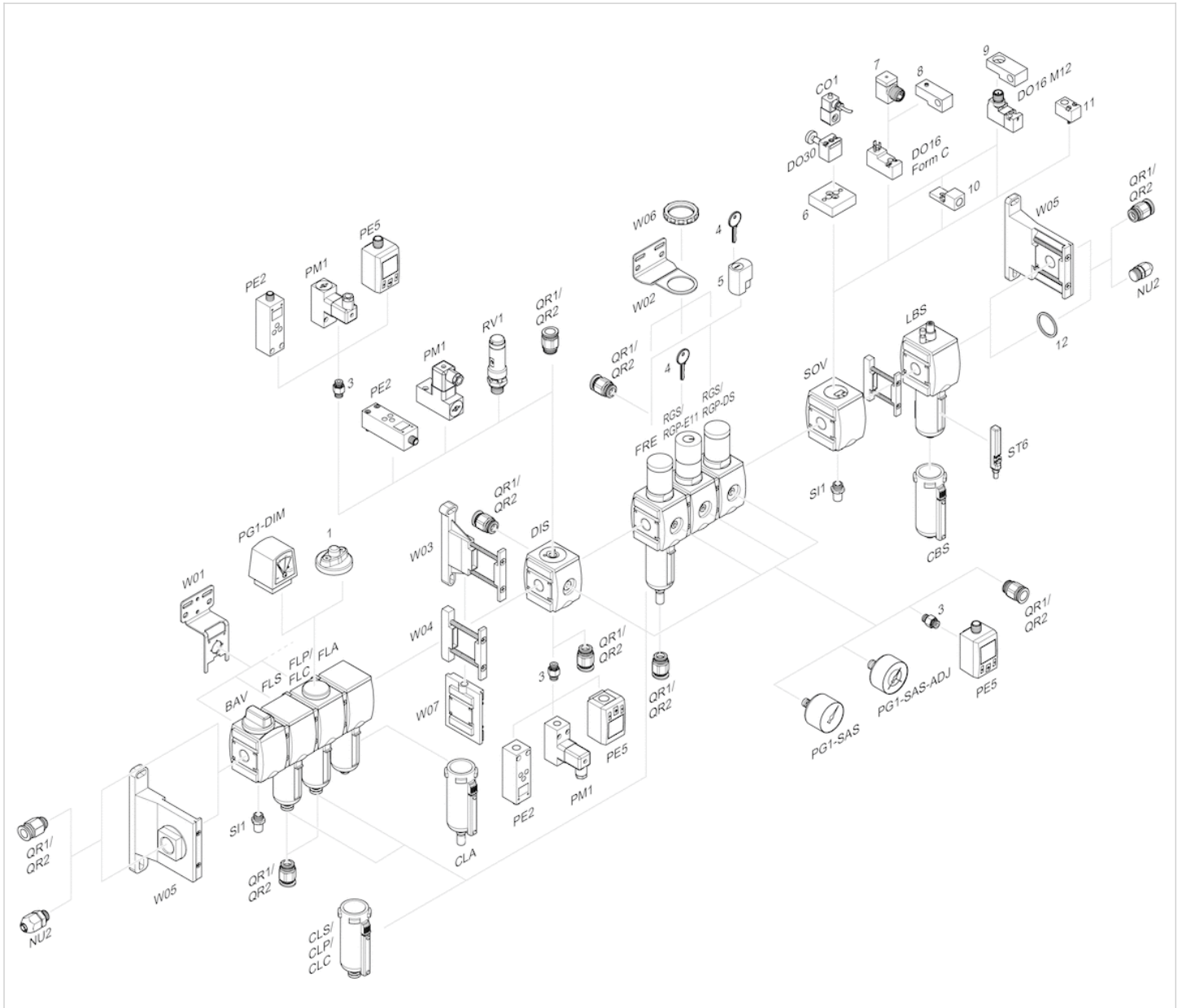


- A1 = input
- A2 = output
- A3 = output
- A4 = output
- A5 = output
- A6 = output
- 1) Mounting thread for pressure sensor

Dimensions in mm

| A1 | A2 | A3 | A4 | A5 | A6 | B | C | D | M | N | Q | S |
|-------|-------|-------|-------|-------|-------|----|----|------|------|----|----|---|
| G 3/8 | G 3/8 | G 1/2 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80.5 | 42.5 | M5 | 20 | 8 |
| G 1/2 | G 1/2 | G 1/2 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80.5 | 42.5 | M5 | 20 | 8 |

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Distributor, Series AS3-DIN

- G 3/8 G 1/2
- Distributor 4x
- Non-return valve



Version

Parts

Mounting orientation

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Weight

Non-return valve, Can be assembled into blocks

Distributor

Any

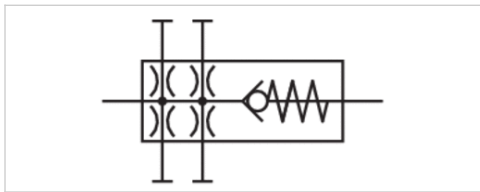
0.4 ... 16 bar

-10 ... 50 °C

-10 ... 50 °C

Compressed air Neutral gases

0.32 kg



Technical data

| Part No. | Port | Nominal flow | Nominal flow | Nominal flow | Nominal flow | Nominal flow |
|------------|-------|--------------|--------------|--------------|--------------|--------------|
| | | Qn 1►2 | Qn 1►3 | Qn 1►4 | Qn 1►5 | Qn 1►6 |
| R412007254 | G 3/8 | 5100 l/min | 3300 l/min | 2250 l/min | 2250 l/min | 2250 l/min |
| R412007255 | G 1/2 | 5100 l/min | 3300 l/min | 2250 l/min | 2250 l/min | 2250 l/min |

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

Technical information

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

Suitable for direct mounting of a PE2 and PM1 series pressure sensor (flange version).

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

4 auxiliary air exits upstream of non-return valve.

Technical information

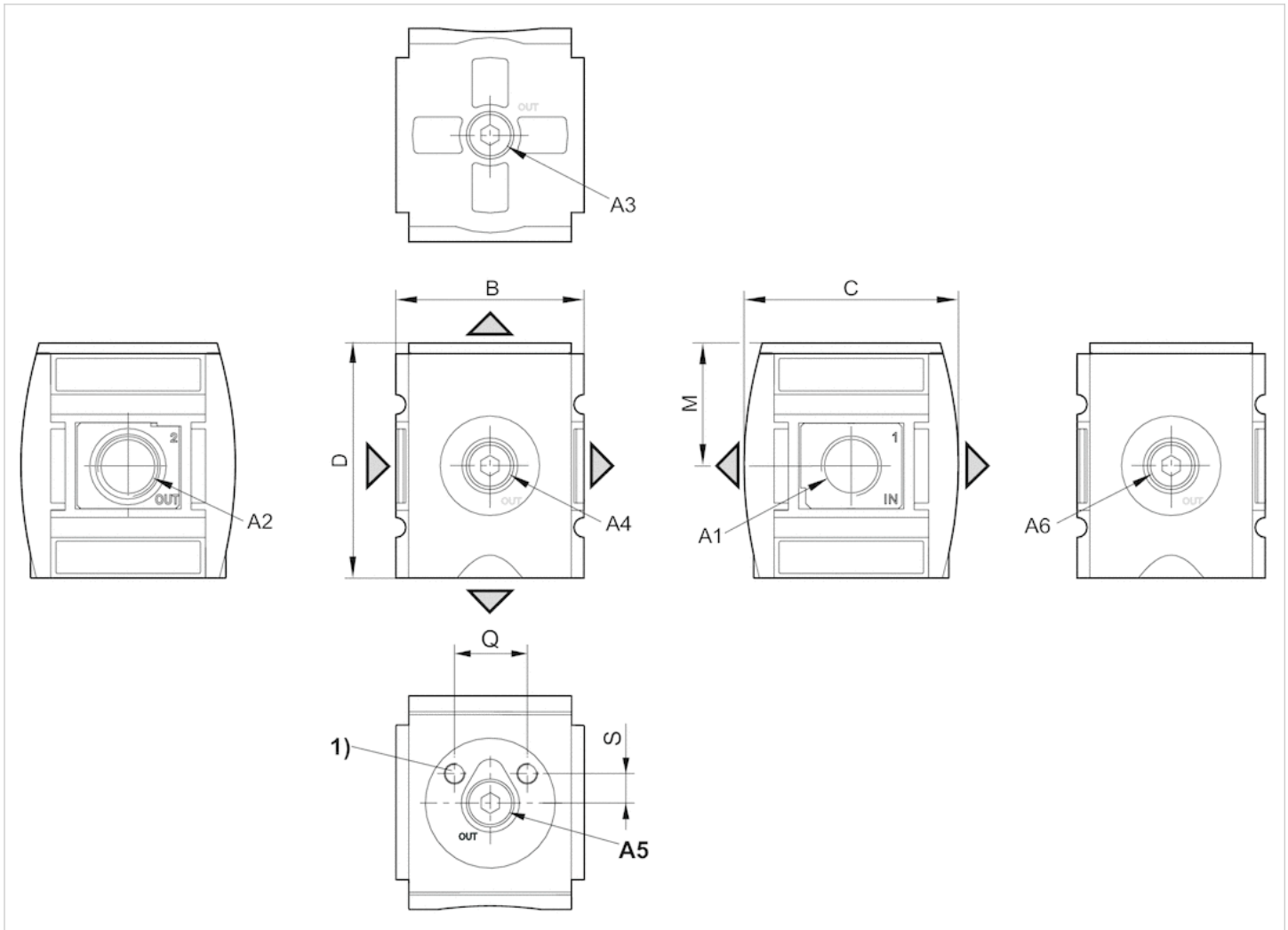
Material

| | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |

| | |
|------------------|--------------------------------|
| Material | |
| Seals | Acrylonitrile butadiene rubber |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions



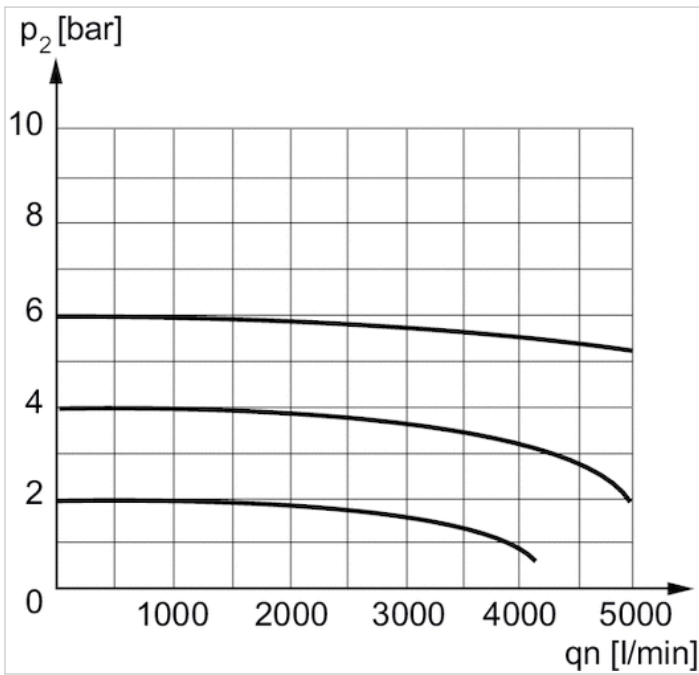
- A1 = input
- A2 = output
- A3 = output
- A4 = output
- A5 = output
- A6 = output

Dimensions in mm

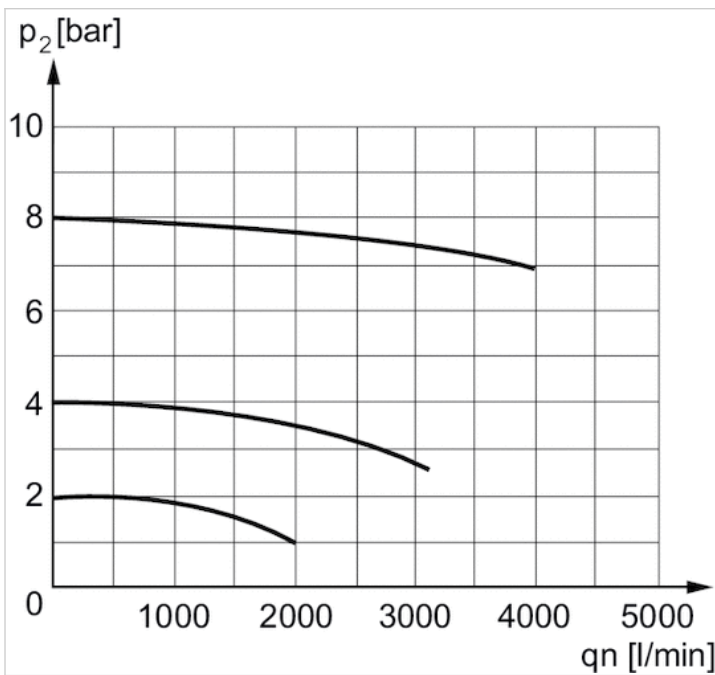
| A1 | A2 | A3 | A4 | A5 | A6 | B | C | D | M | Q |
|-------|-------|-------|-------|-------|-------|----|----|----|------|----|
| G 3/8 | G 3/8 | G 1/2 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80 | 42.5 | 20 |
| G 1/2 | G 1/2 | G 1/2 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80 | 42.5 | 20 |

Diagrams

Flow rate characteristic

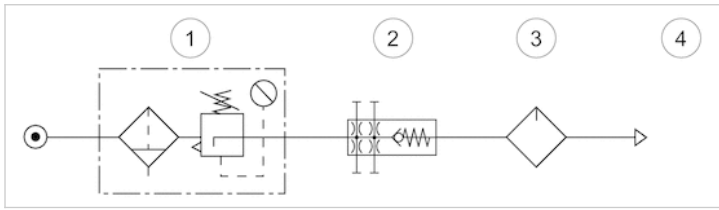


Nominal flow 1 ▶ 2
 p2 = secondary pressure
 qn = nominal flow



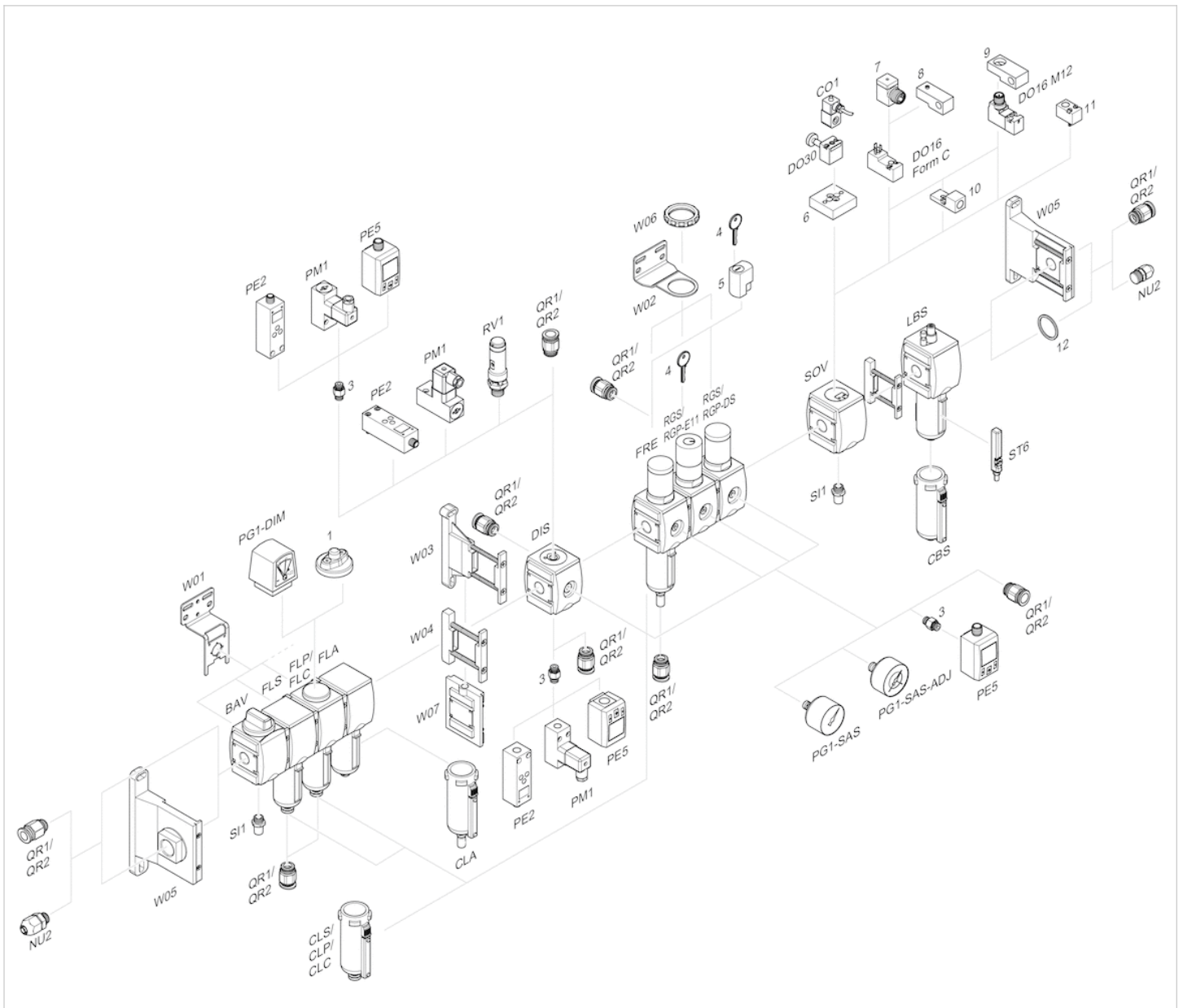
Nominal flow 1 ▶ 3
 p2 = secondary pressure
 qn = nominal flow

usage



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

Accessories overview

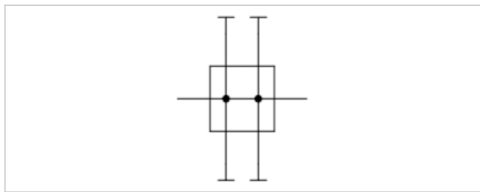


- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking

- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Distributor, Series AS3-DIC

- G 1/2
- Distributor 4x
- Center infeed



| | |
|-------------------------------|---------------------------------------------|
| Version | Center infeed, Can be assembled into blocks |
| Parts | Distributor |
| Mounting orientation | Any |
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air Neutral gases |
| Weight | 0.32 kg |

Technical data

| Part No. | Port | Nominal flow | Nominal flow | Nominal flow | Nominal flow | Nominal flow |
|------------|-------|--------------|--------------|--------------|--------------|--------------|
| | | Qn 1►2 | Qn 1►3 | Qn 1►4 | Qn 1►5 | Qn 1►6 |
| R412007249 | G 1/2 | 10300 l/min | 10300 l/min | 2300 l/min | 2250 l/min | 2300 l/min |

Nominal flow Qn with secondary pressure p2 = 6 bar at $\Delta p = 1$ bar

Technical information

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

Suitable for direct mounting of a PE2 and PM1 series pressure sensor (flange version).

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

Additional air supply possible at connections A4 and A5.

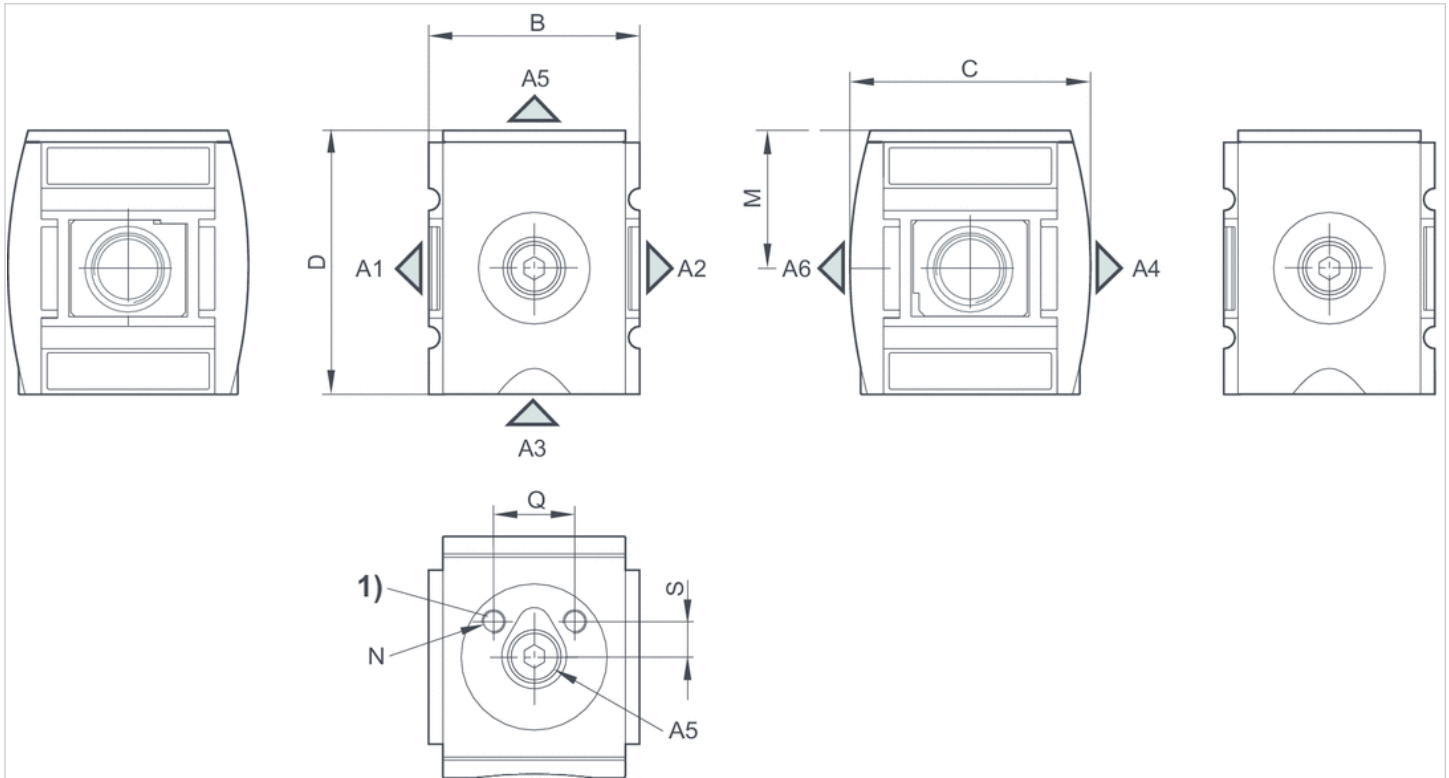
Technical information

| Material | |
|-------------|---------------------------------|
| Housing | Polyamide |
| Front plate | Acrylonitrile butadiene styrene |
| Seals | Acrylonitrile butadiene rubber |

| | |
|------------------|---------------|
| Material | |
| Threaded bushing | Die cast zinc |

Dimensions

Dimensions

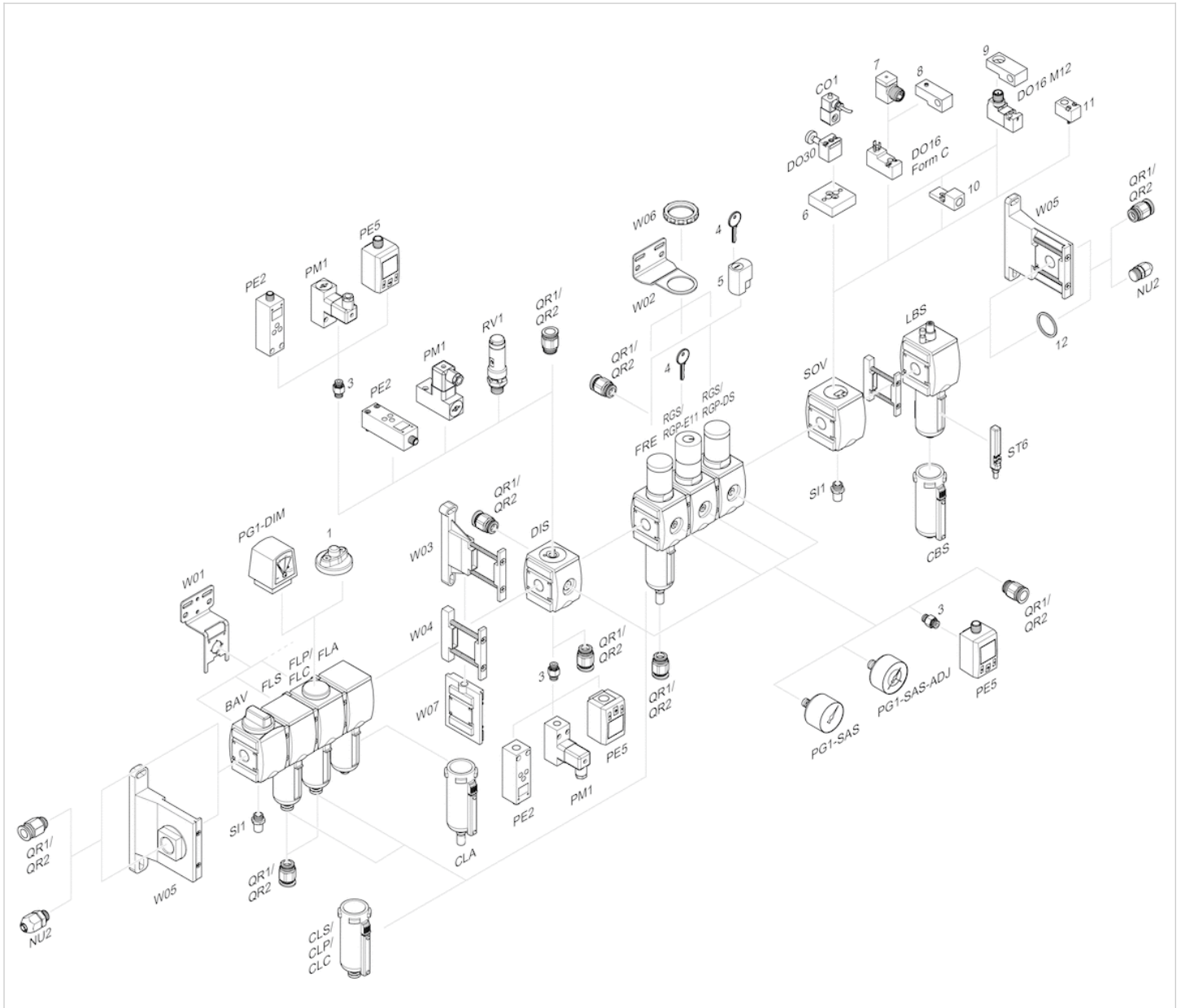


- A1 = output
- A2 = output
- A3 = input/output
- A4 = output
- A5 = input/output
- A6 = output
- 1) Mounting thread for pressure sensor

Dimensions in mm

| A1 | A2 | A3 | A4 | A5 | A6 | B | C | D | M | N | Q | S |
|-------|-------|-------|-------|-------|-------|----|----|------|------|----|----|---|
| G 1/2 | G 1/2 | G 1/2 | G 3/8 | G 1/4 | G 3/8 | 63 | 74 | 80.5 | 42.5 | M5 | 20 | 8 |

Accessories overview



- 1 = contamination display
- 3 = Double nipple
- 4 = Key for E11 locking
- 5 = mortise lock
- 6 = Transition plate DO30
- 7 = Adapter, Series CON-VP
- 8 = Mounting aid DO16, form C
- 9 = Mounting aid DO16, M12
- 10 = Adapter for external pilot air
- 11 = Adapter pneumatic operation
- 12 = Sealing ring

Reservoir, Series AS3-CLS/ -CLP/ -CLC

- for filters, pre-filters and microfilters
- Material Polycarbonate Die cast zinc



| | |
|-------------------------------|--------------------|
| Version | Reservoir |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Filter reservoir volume | 49 cm ³ |
| Weight | See table below |

Technical data

| Part No. | Condensate drain | Reservoir |
|------------|------------------------------------------|----------------------------|
| R412007338 | semi-automatic, open without pressure | Polycarbonate |
| R412007339 | fully automatic, open without pressure | Polycarbonate |
| R412007340 | fully automatic, closed without pressure | Polycarbonate |
| R412007344 | semi-automatic, open without pressure | Die cast zinc, with window |
| R412007345 | fully automatic, open without pressure | Die cast zinc, with window |
| R412007346 | fully automatic, closed without pressure | Die cast zinc, with window |

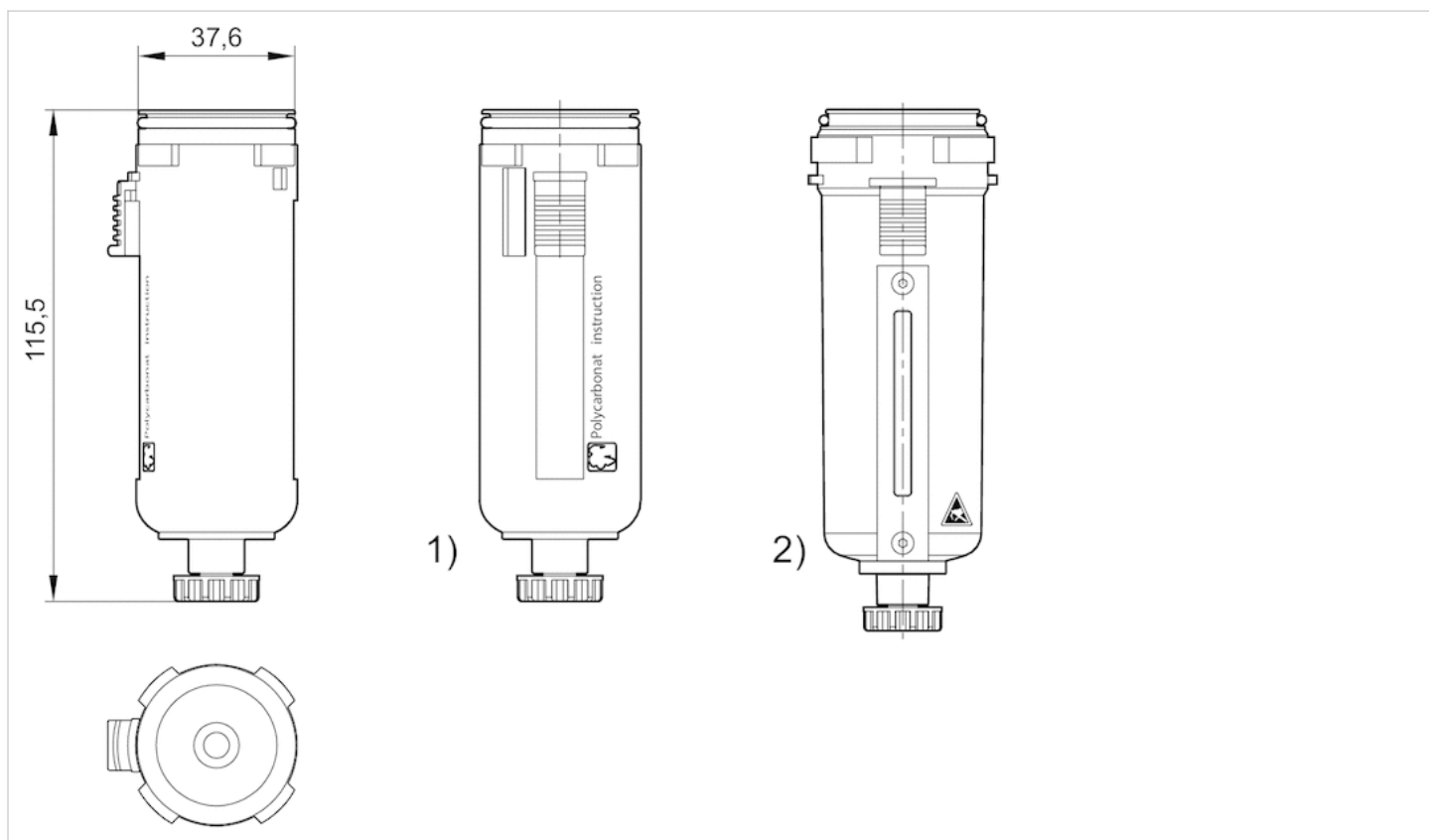
| Part No. | Protective guard | Weight | Fig. |
|------------|------------------|----------|--------|
| R412007338 | Polyamide | 0.086 kg | Fig. 1 |
| R412007339 | Polyamide | 0.116 kg | Fig. 2 |
| R412007340 | Polyamide | 0.116 kg | Fig. 2 |
| R412007344 | - | 0.338 kg | Fig. 1 |
| R412007345 | - | 0.39 kg | Fig. 2 |
| R412007346 | - | 0.39 kg | Fig. 2 |

Technical information

| Material | |
|------------------|--------------------------------|
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions in mm, Fig. 1



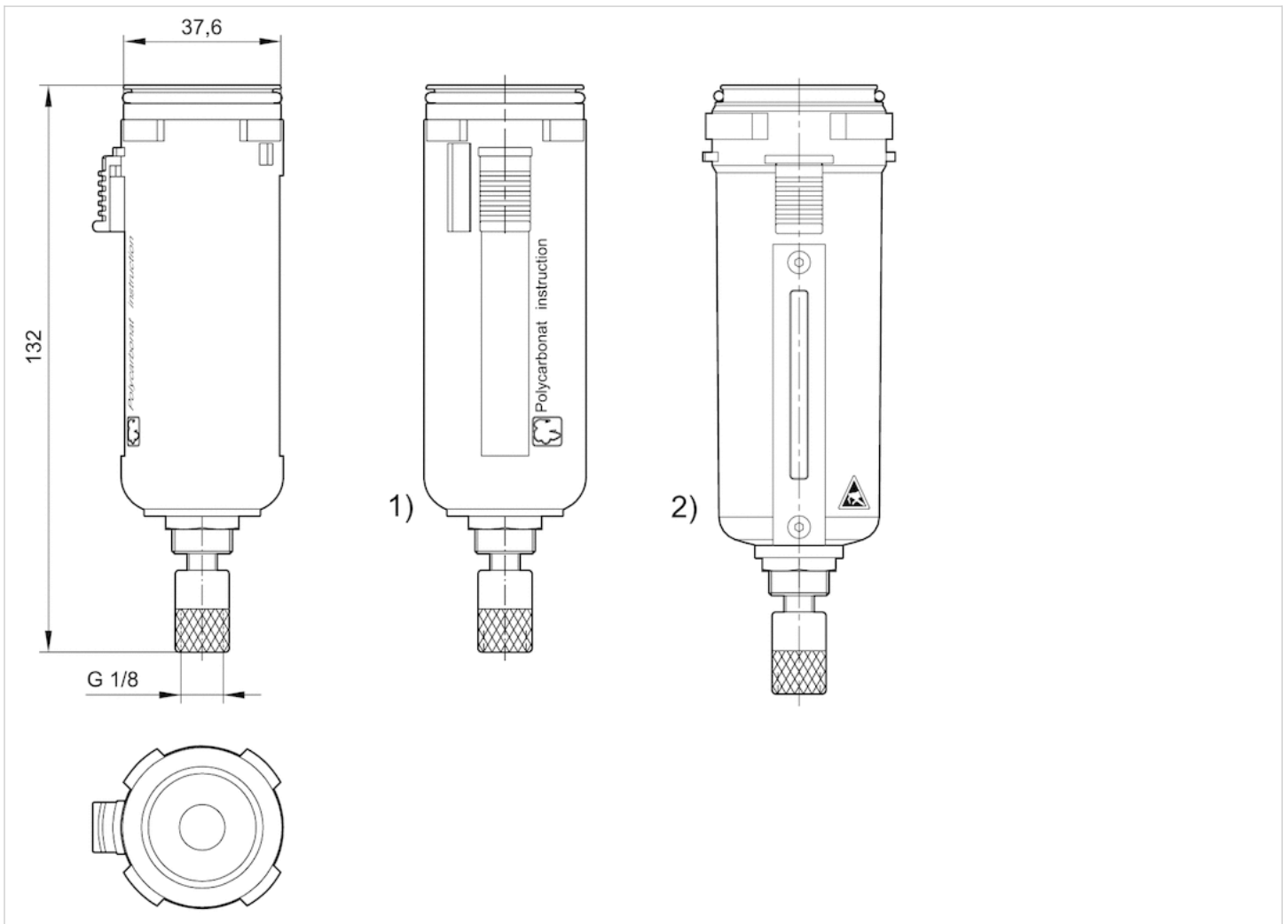
- 1) Plastic reservoir and protective guard with window
 2) Metal reservoir with inspection glass

Dimensions in mm

| Part No. | | A | B |
|------------|-------------|------|-------|
| R412007338 | G3/8 – G1/2 | 43.8 | 128.5 |
| R412007344 | G3/8 – G1/2 | 43.8 | 132.5 |

Dimensions

Dimensions in mm, Fig. 2



- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Dimensions in mm

| Part No. | A4 | A | B |
|------------|-------|------|-----|
| R412007339 | G 1/8 | 43.8 | 145 |
| R412007340 | G 1/8 | 43.8 | 145 |
| R412007345 | G 1/8 | 43.8 | 145 |
| R412007346 | G 1/8 | 43.8 | 145 |

Reservoir, Series AS3-CLA

- for active carbon filter

- Material Polycarbonate Die cast zinc



| | |
|-------------------------------|--------------------|
| Version | Reservoir |
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Filter reservoir volume | 49 cm ³ |
| Weight | See table below |

Technical data

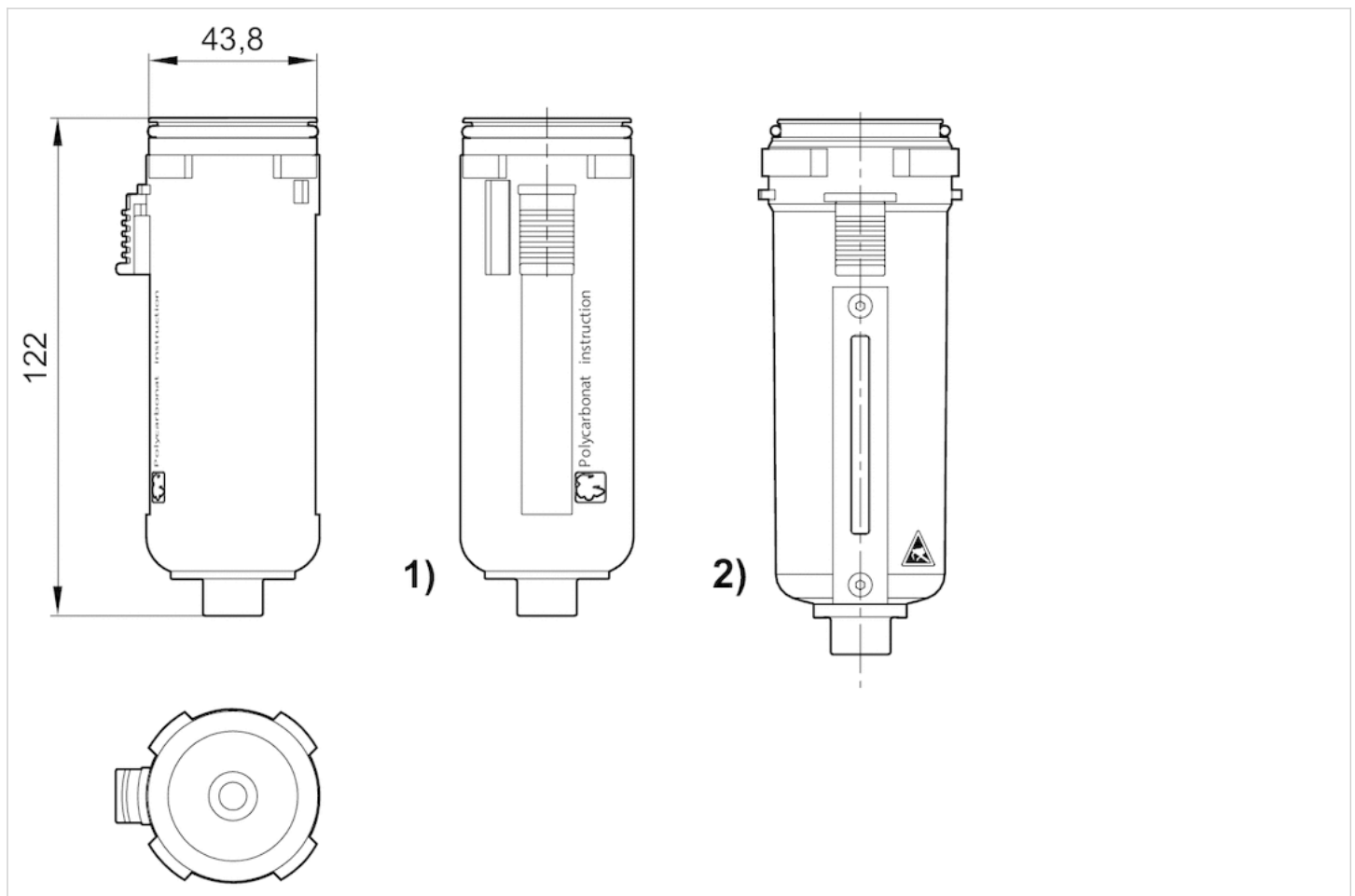
| Part No. | Reservoir | Protective guard | Weight |
|------------|----------------------------|------------------|----------|
| R412007347 | Polycarbonate | Polyamide | 0.086 kg |
| R412007349 | Die cast zinc, with window | - | 0.338 kg |

Technical information

| Material | |
|------------------|--------------------------------|
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions in mm



- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Reservoir, Series AS3-CBS

- for lubricator

- Material Polycarbonate Die cast zinc



Version

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Lubricator reservoir volume

Weight

Reservoir

0 ... 16 bar

-10 ... 50 °C

-10 ... 50 °C

Compressed air Oil

80 cm³

See table below

Technical data

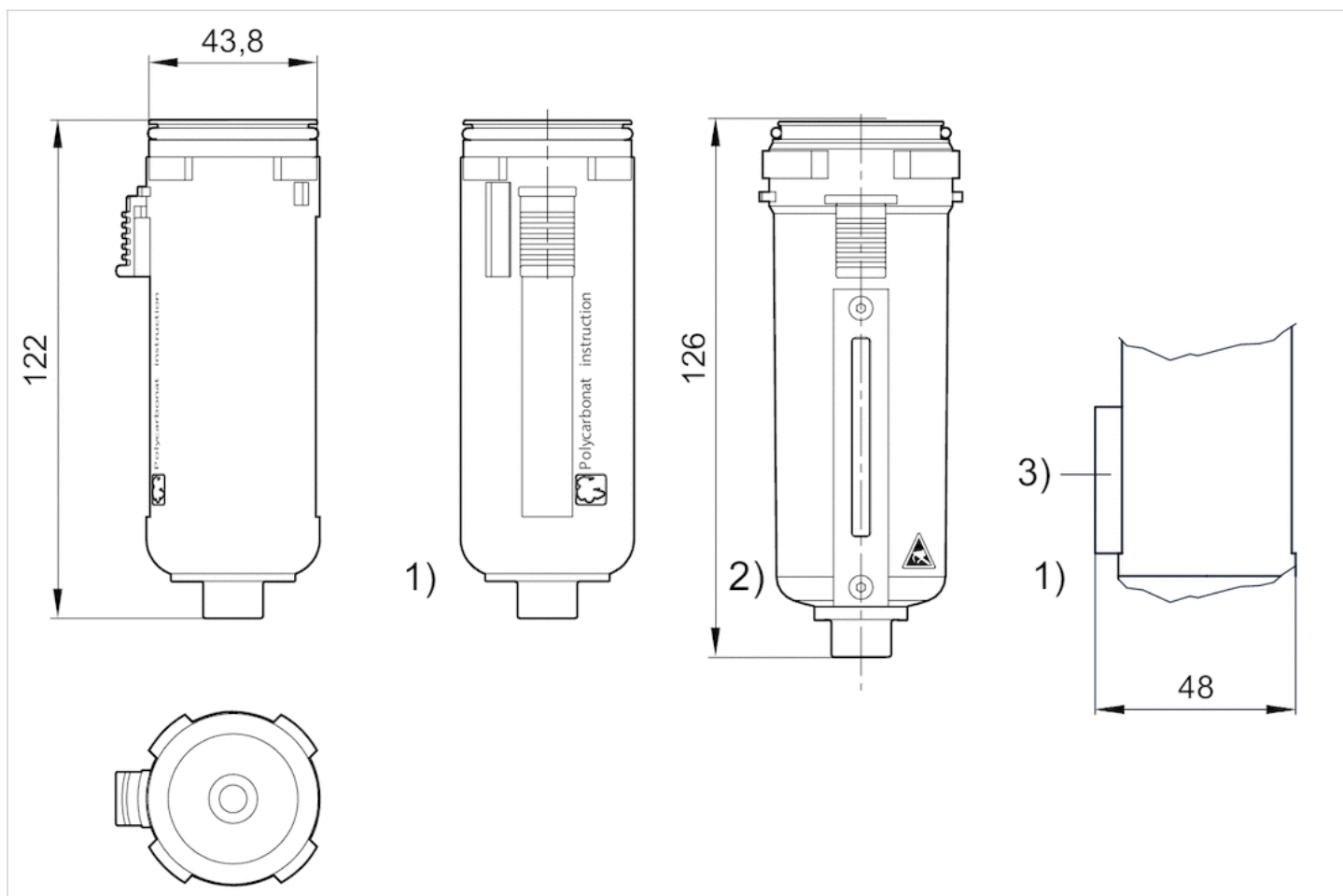
| Part No. | Electrical level indicator | Reservoir | Protective guard | Weight |
|------------|----------------------------|----------------------------|------------------|----------|
| R412007352 | - | Polycarbonate | Polyamide | 0.086 kg |
| R412007358 | - | Die cast zinc, with window | - | 0.335 kg |
| R412007351 | with external query | Polycarbonate | Polyamide | 0.086 kg |

Technical information

| Material | |
|------------------|--------------------------------|
| Reservoir | Polycarbonate Die cast zinc |
| Protective guard | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions in mm



- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) with external query

Mounting plate, Series AS3-MBR-...-



Ambient temperature min./max.

-10 ... 50 °C

Weight

0.13 kg

Technical data

Part No.

R412007368

Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664

Technical information

For assembly of the W01 mounting plate, the rear cover of the air preparation unit must be removed.

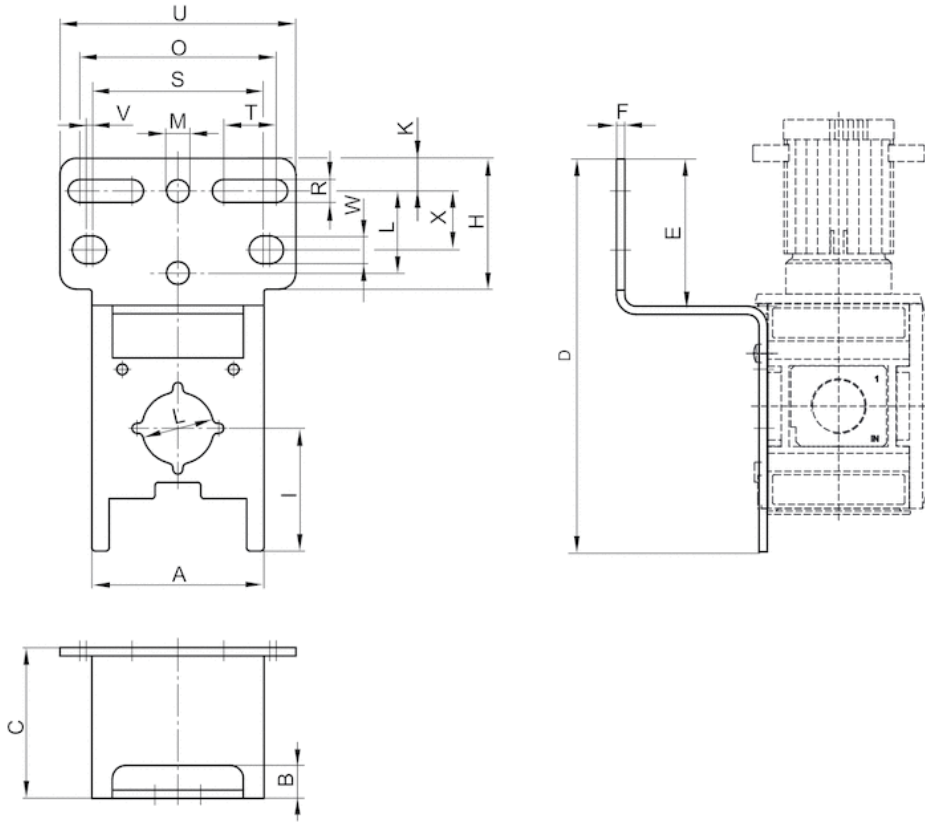
Technical information

Material

| | |
|---------|--------------------------------|
| Housing | Steel, galvanized |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions in mm

| Part No. | A | B | C | D | E | F | H | I | K | L | M | O | R | S | T | U | V | W | X |
|------------|------|----|----|-----|----|-----|----|------|----|----|-----|----|---|----|----|----|---|-----|----|
| R412007368 | 52.5 | 10 | 46 | 120 | 45 | 2.5 | 40 | 37.5 | 10 | 25 | 6.5 | 60 | 7 | 52 | 16 | 72 | 2 | 8.5 | 18 |

Mounting bracket, Series AS3-MBR-...-W02



Ambient temperature min./max. -10 ... 50 °C
Weight 0.13 kg

Technical data

Part No.

R412007964

Technical information

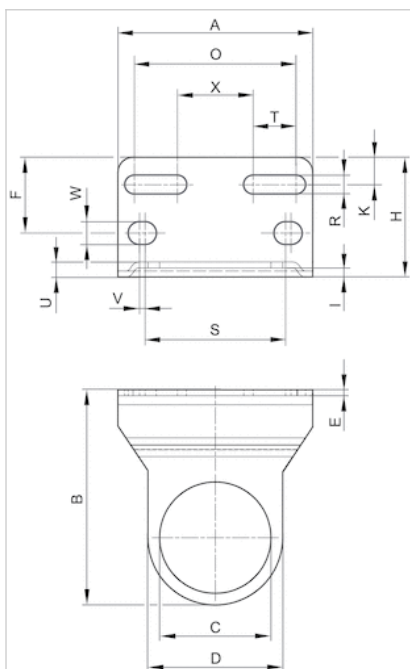
Material

Housing

Steel, galvanized

Dimensions

Dimensions



Dimensions in mm

| Part No. | A | B | C | D | E | F | H | I | K | O | R | S | T | U | V | W | X |
|------------|----|----|------|----|-----|----|----|---|----|----|---|----|----|-----|---|-----|----|
| R412007964 | 72 | 98 | 43.2 | 52 | 2.5 | 28 | 44 | 4 | 10 | 60 | 7 | 52 | 16 | 6.5 | 2 | 8.5 | 28 |

Mounting clip, Series AS3-MBR-...-W03

R412007370

Series AS3

■ $Q_n = [[14500] \text{ l/min}]$



Technical data

Industry
Industrial

Min. ambient temperature
-10 °C

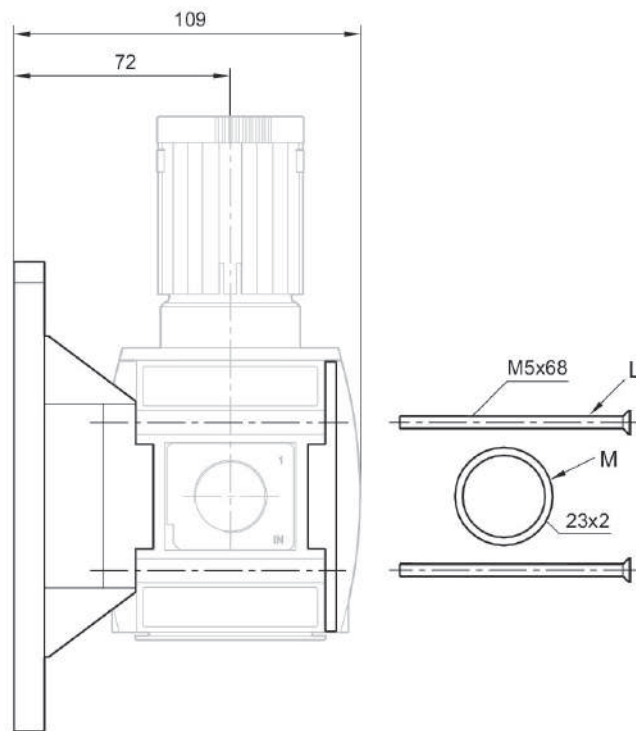
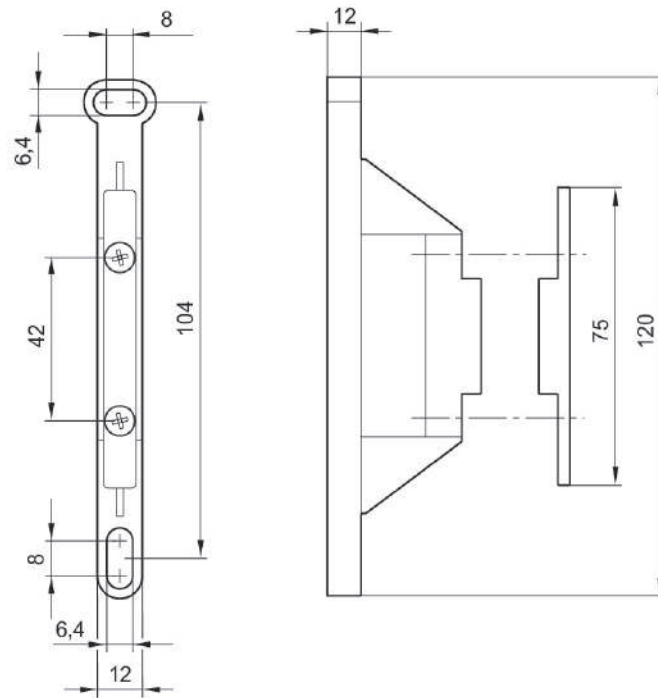
Max. ambient temperature
50 °C

Weight
0.055 kg

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

R412007370



Mounting clip, Series AS3-MBR-...-W03-C



Ambient temperature min./max.

-10 ... 50 °C

Weight

0.055 kg

Technical data

Part No.

R412007373

Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

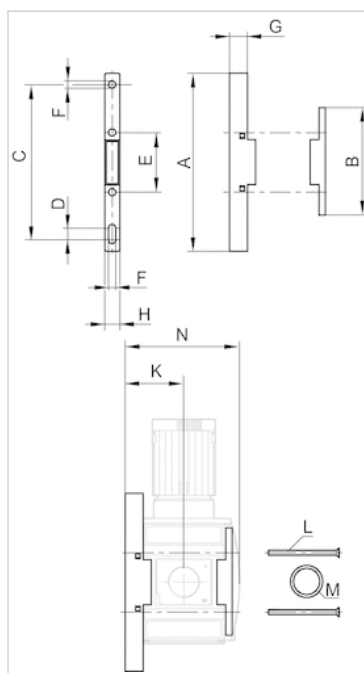
Technical information

Material

| | |
|---------|--------------------------------|
| Housing | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions in mm

| Part No. | A | B | C | D | E | F | G | H | K | L | M | N |
|------------|-----|----|-----|---|----|-----|------|----|------|-------|------|------|
| R412007373 | 124 | 75 | 108 | 8 | 42 | 5.5 | 12.5 | 10 | 38.5 | M5x68 | 23x2 | 75.5 |

Mounting clip, Series AS3-MBR-...-W03, Aluminum



Ambient temperature min./max.

-10 ... 50 °C

Weight

0.133 kg

Technical data

Part No.

R412026828

Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

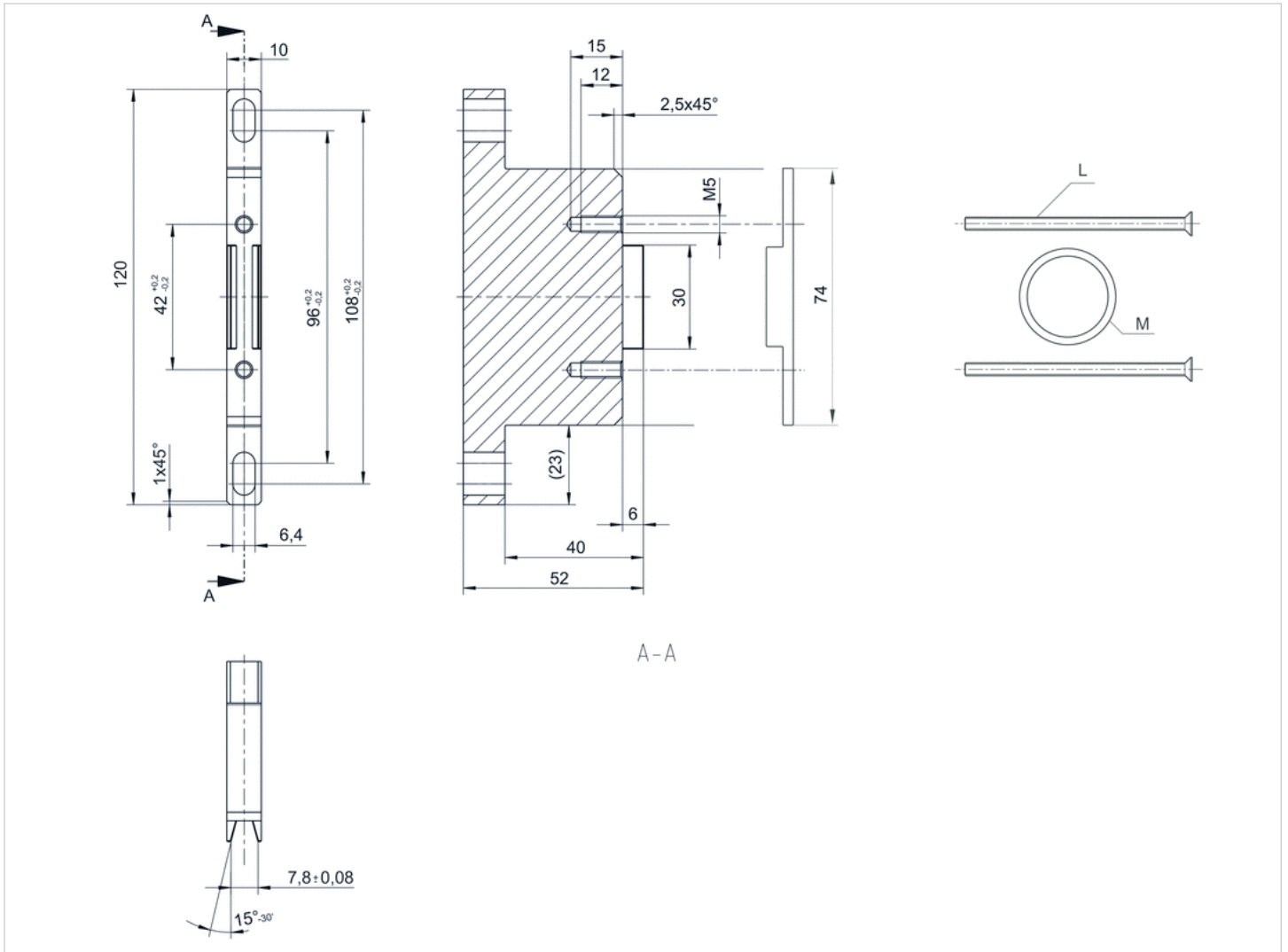
Technical information

Material

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



L = Mounting screw
 M = O-ring

Block assembly kit, Series AS3-MBR-...-W04



Ambient temperature min./max.

-10 ... 50 °C

Weight

0.032 kg

Technical data

| Part No. |
|------------|
| R412007371 |

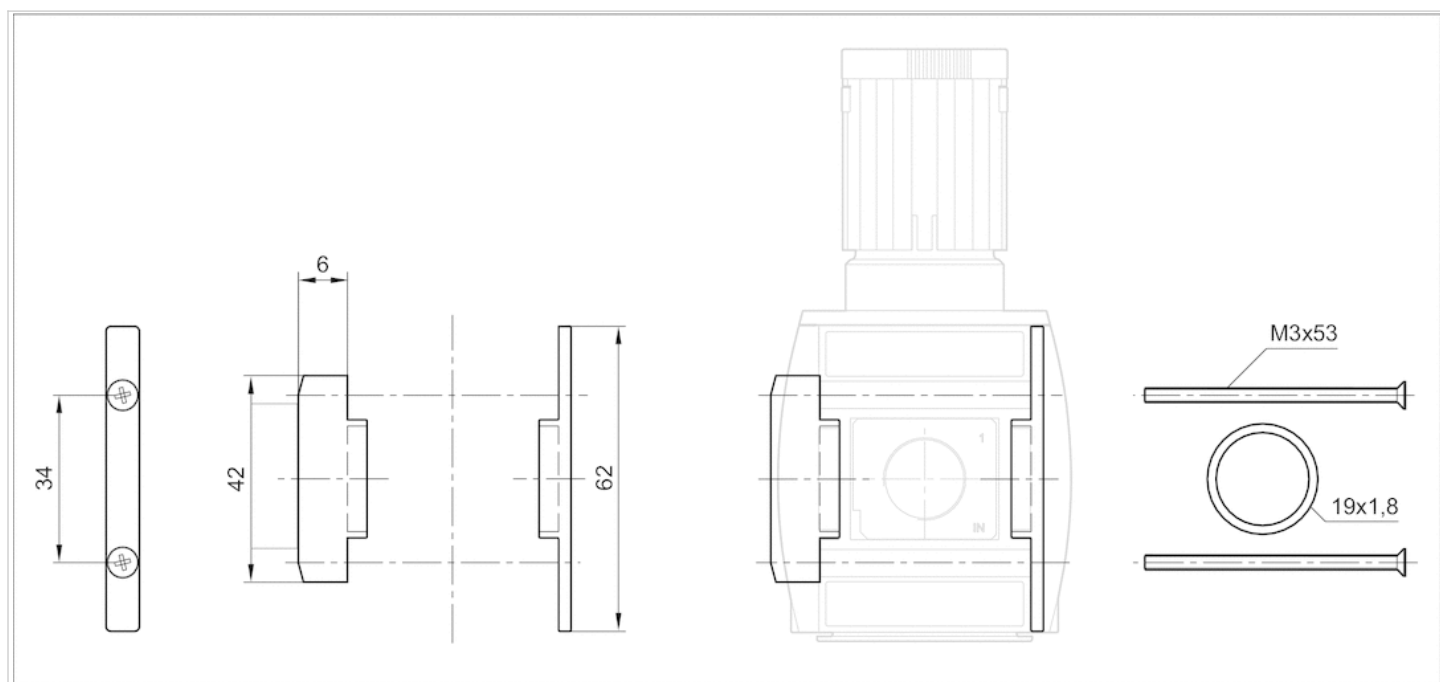
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions in mm



Dimensions in mm

| Part No. | A | B | C | D | L | M |
|------------|----|----|----|------|-------|------|
| R412007371 | 75 | 75 | 42 | 12.5 | M5x68 | 23x2 |

Block assembly kit, Series AS3-MBR-...-W05

- G 3/8 - G 1/2



Ambient temperature min./max.

-10 ... 50 °C

Weight

0.825 kg

Technical data

| Part No. | Port |
|------------|-------|
| R412007366 | G 3/8 |
| R412007367 | G 1/2 |

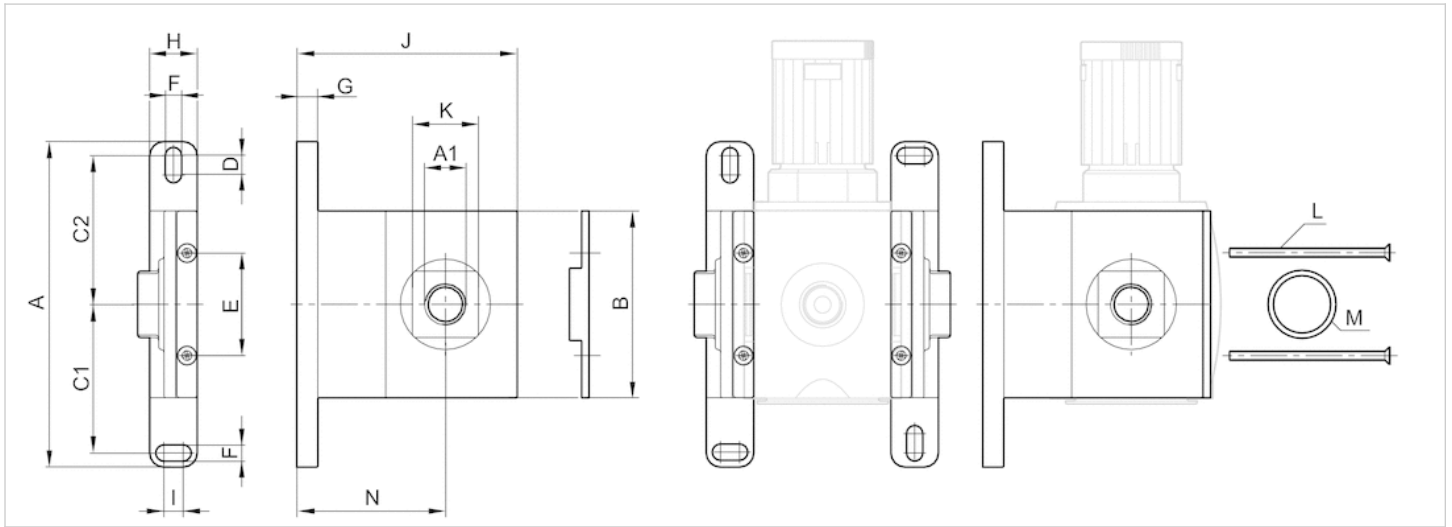
Scope of delivery incl. 4 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Die cast zinc, painted |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | A1 | A | B | C1 | C2 | D | E | F | G | H | I | J | K | L | M | N |
|------------|-------|-----|----|----|----|---|----|-----|---|----|---|-------|----|-------|------|----|
| R412007366 | G 3/8 | 120 | 75 | 54 | 54 | 8 | 42 | 6.4 | 7 | 20 | 8 | 102.5 | 30 | M5x68 | 23x2 | 72 |
| R412007367 | G 1/2 | 120 | 75 | 54 | 54 | 8 | 42 | 6.4 | 7 | 20 | 8 | 102.5 | 30 | M5x68 | 23x2 | 72 |

Block assembly kit, Series AS3/AS5-MBR-...-W07



Ambient temperature min./max.

-10 ... 50 °C

Technical data

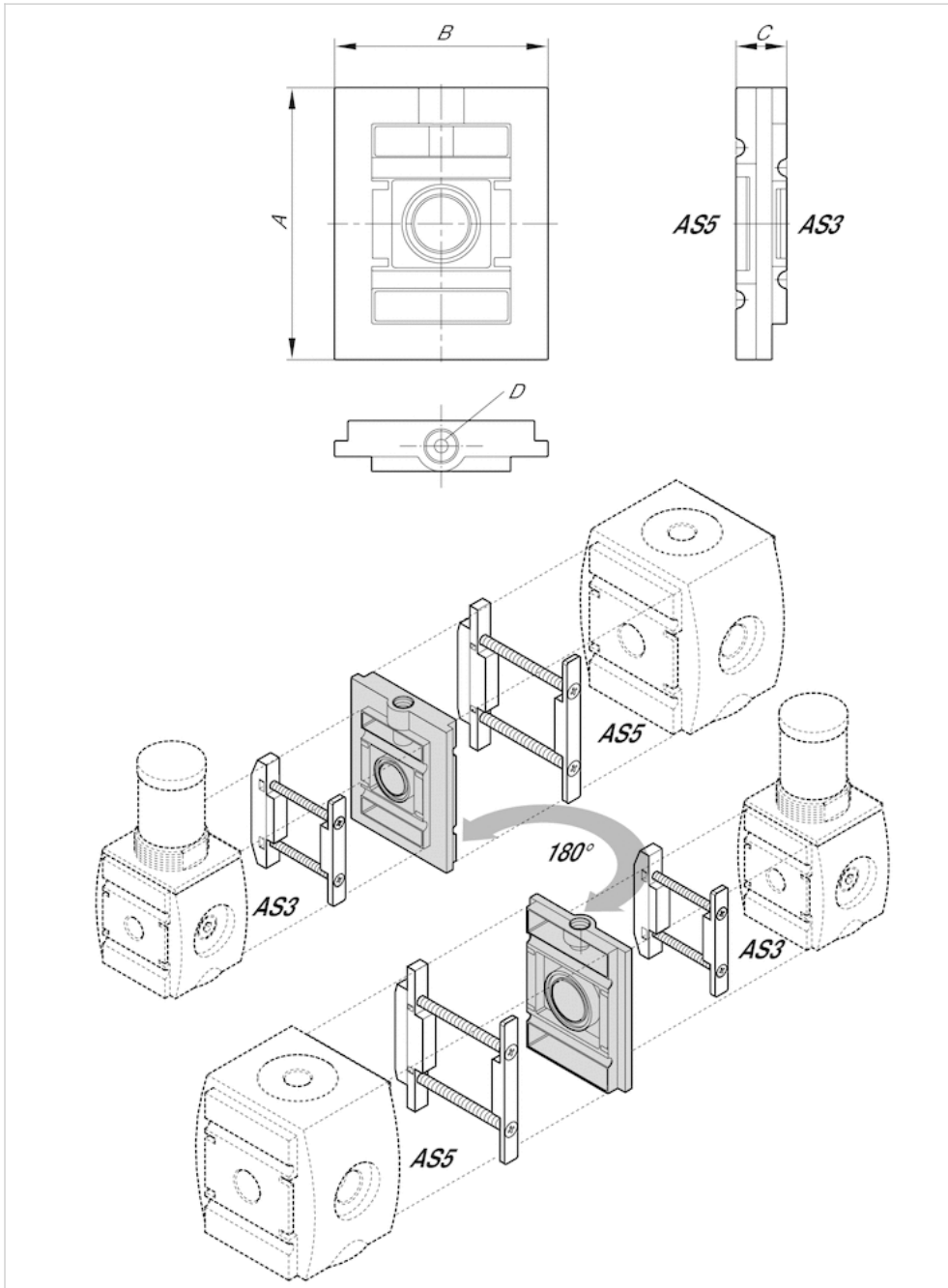
| Part No. | Port |
|------------|-------|
| R412010122 | G 1/4 |

scope of delivery incl. seal

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions



Dimensions in mm

| Part No. | A | B | C | D |
|------------|-----|----|----|-------|
| R412010122 | 102 | 80 | 18 | G 1/4 |

Block assembly kit, Series AS2/AS3- MBR-...-W07



Ambient temperature min./max.

-10 ... 50 °C

Technical data

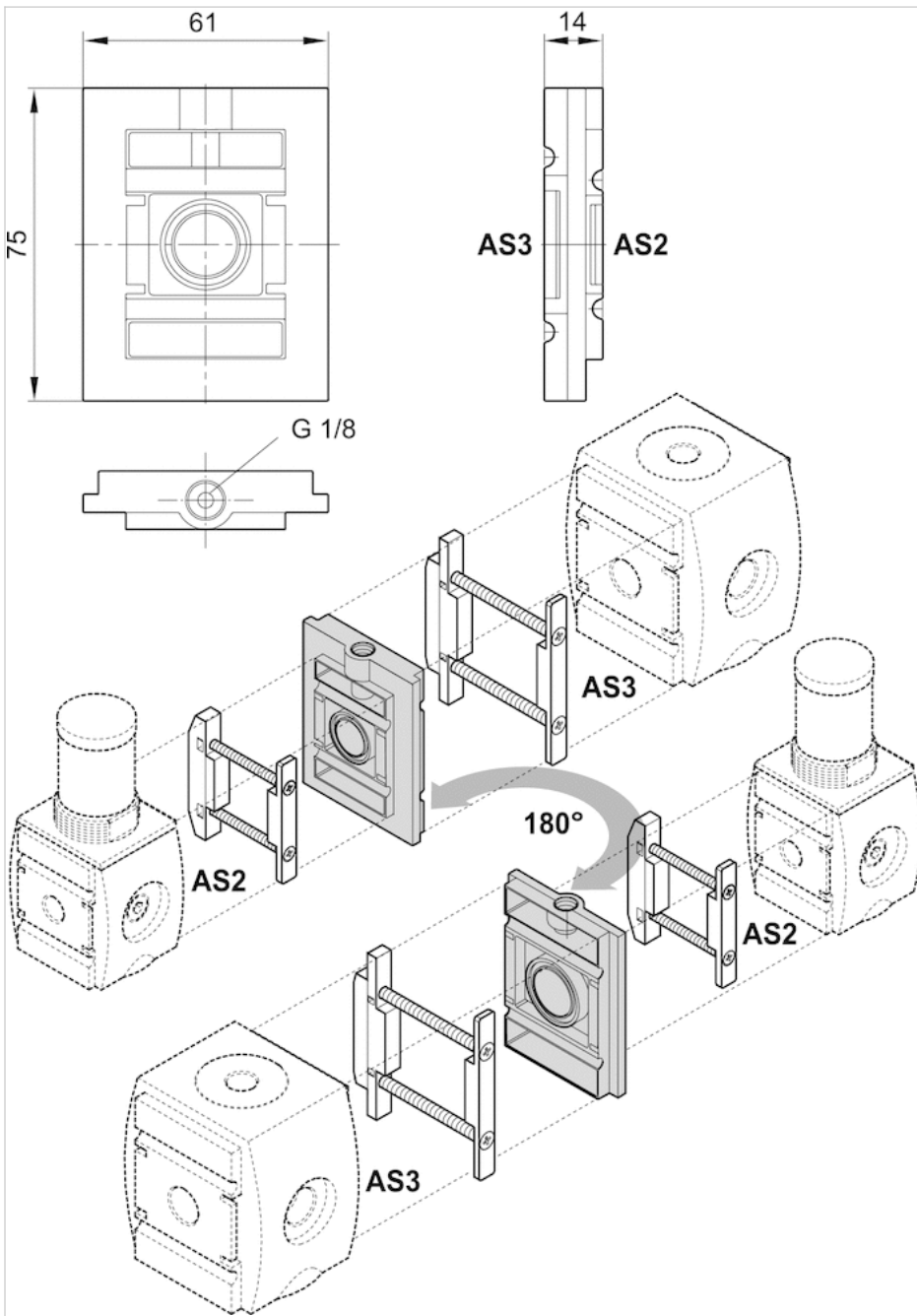
| Part No. | Port |
|------------|-------|
| R412010121 | G 1/8 |

scope of delivery incl. seal

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions



scope of delivery incl. seal

Dimensions

| Part No. | A | B | C | D |
|------------|----|----|----|-------|
| R412010121 | 75 | 61 | 14 | G 1/8 |

Panel nut, Series AS-MBR-...-W06

- M42x1.5

- for AS3



Weight

0.02 kg

The delivered product may vary from that in the illustration.

Technical data

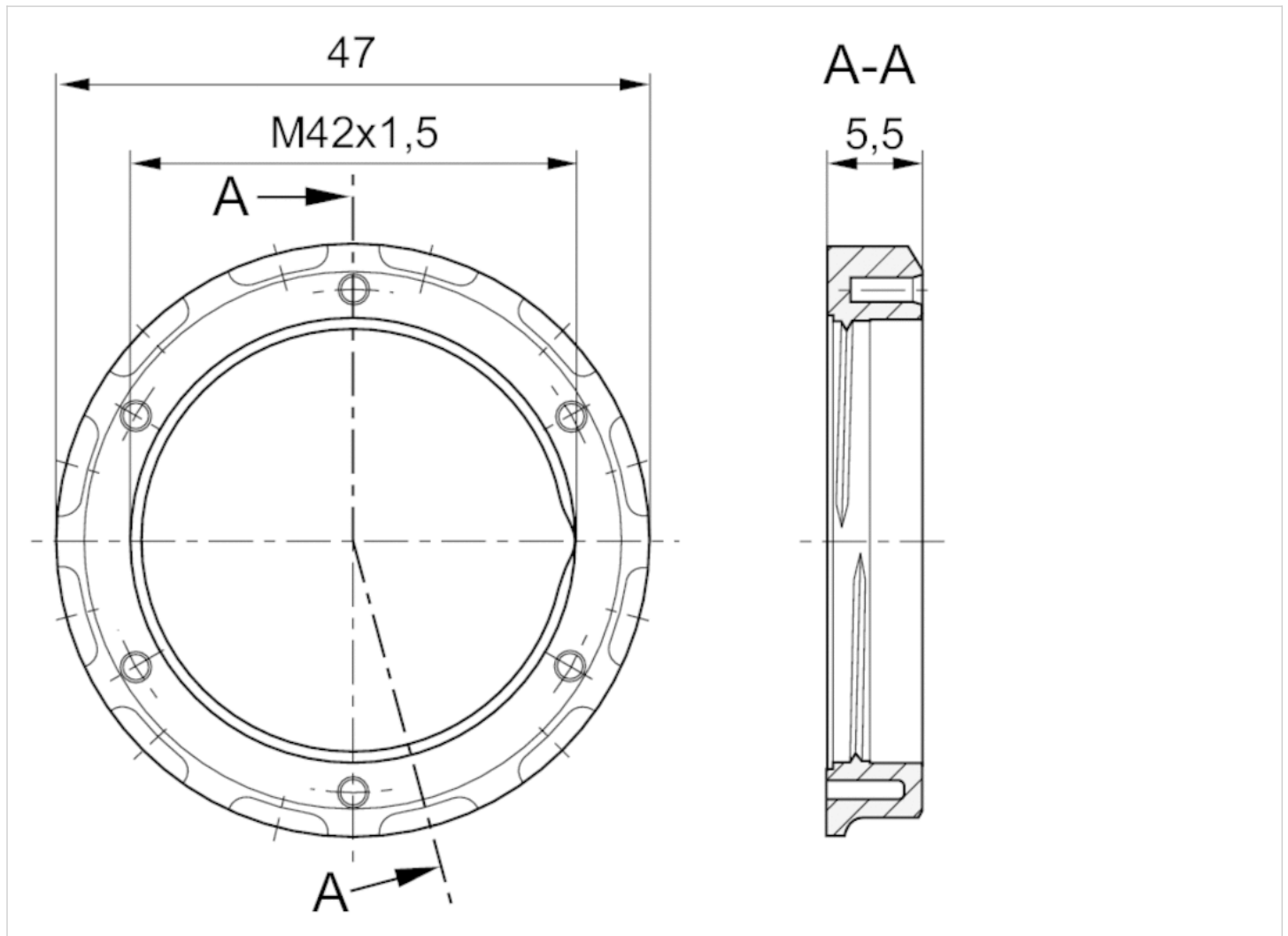
| Part No. | Port | for | Scope of delivery |
|------------|---------|-----|-------------------|
| 1829234072 | M42x1.5 | AS3 | 5 piece |

Technical information

| Material | |
|----------|-------|
| Housing | Brass |

Dimensions

Dimensions in mm



Panel nut, Series AS-MBR-...-W06

- M42x1.5
- for AS3



Ambient temperature min./max.

-10 ... 50 °C

The delivered product may vary from that in the illustration.

Technical data

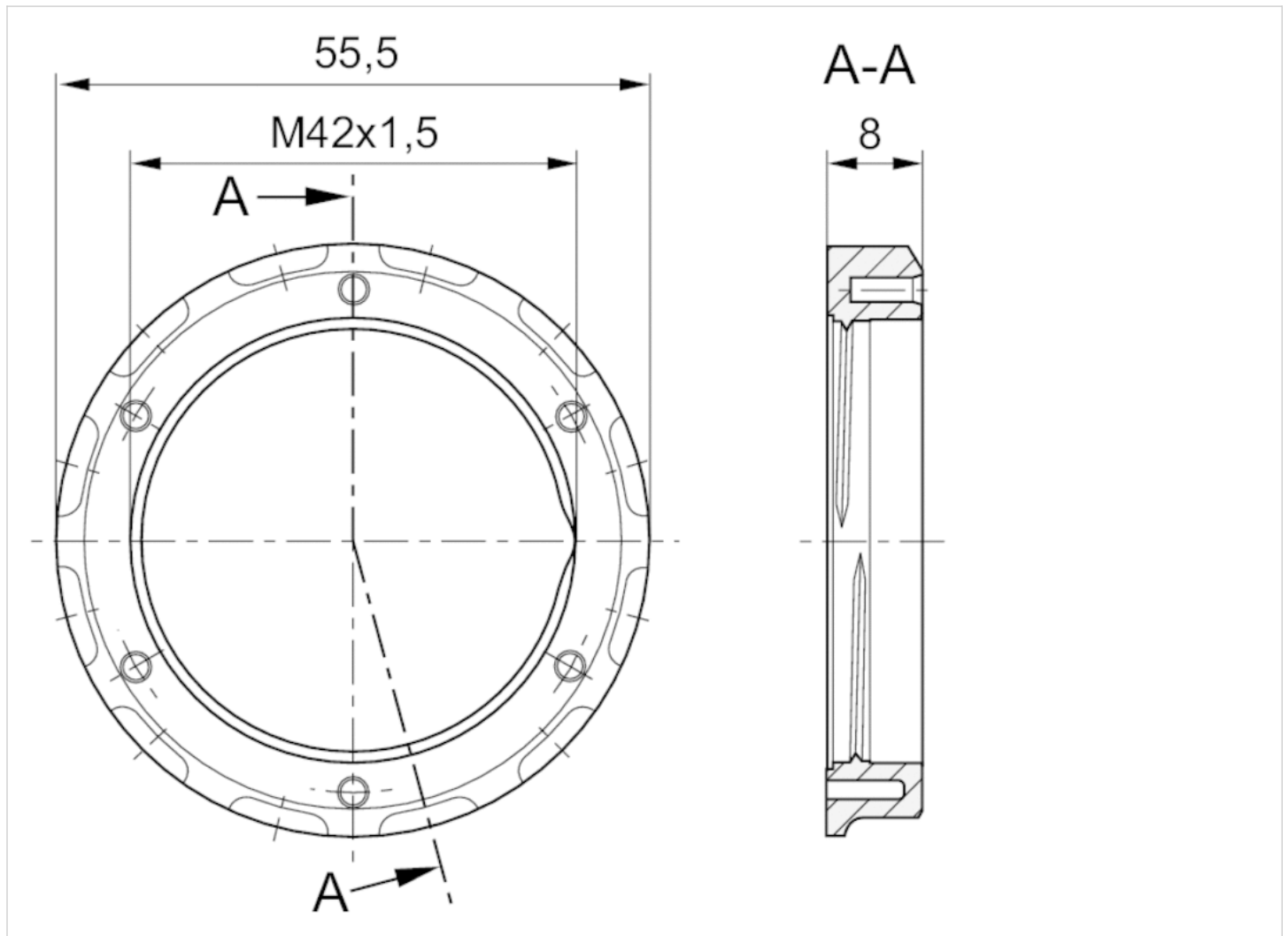
| Part No. | Port | for |
|------------|---------|-----|
| R412007372 | M42x1.5 | AS3 |

Technical information

| Material | |
|----------|-----------|
| Housing | Polyamide |

Dimensions

Dimensions in mm



Panel nut, Series AS-MBR-...-W06

- M42x1.5

- for AS3



Ambient temperature min./max.

-10 ... 50 °C

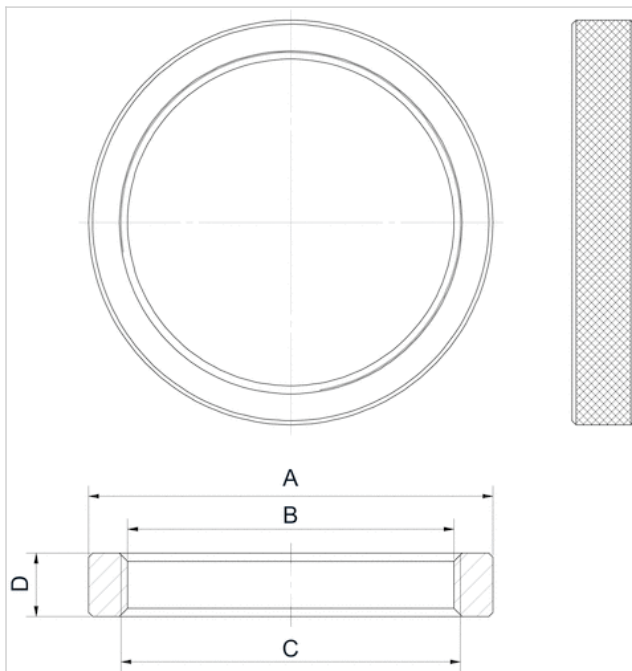
Technical data

| Part No. | Port | for |
|------------|---------|-----|
| R412007363 | M42x1.5 | AS3 |

Technical information

| Material | |
|----------|-------|
| Housing | Brass |

Dimensions



Dimensions

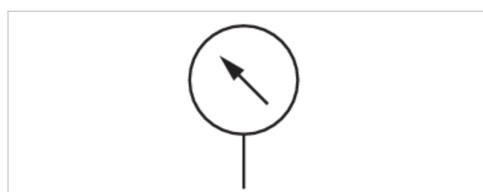
| Part No. | für Serie | A | B | C | D | Material |
|------------|-----------|----|------|---------|-----|----------|
| R412007363 | AS3 | 50 | 41,1 | M42x1,5 | 7,8 | Brass |

Pressure gauge, Series PG1-SAS

- Back port
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi



| | |
|--------------------------------|-----------------------------|
| Version | Bourdon tube pressure gauge |
| Standardization | EN 837-1 |
| Class | 2,5 |
| Ambient temperature min./max. | -40 ... 60 °C |
| Medium | Compressed air |
| Main scale unit (outside) | bar |
| Main scale color (outside) | White |
| Secondary scale unit (inside) | psi |
| Secondary scale color (inside) | Grey |
| Background color | Black |
| Pointer color | White |
| Weight | See table below |



Technical data

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

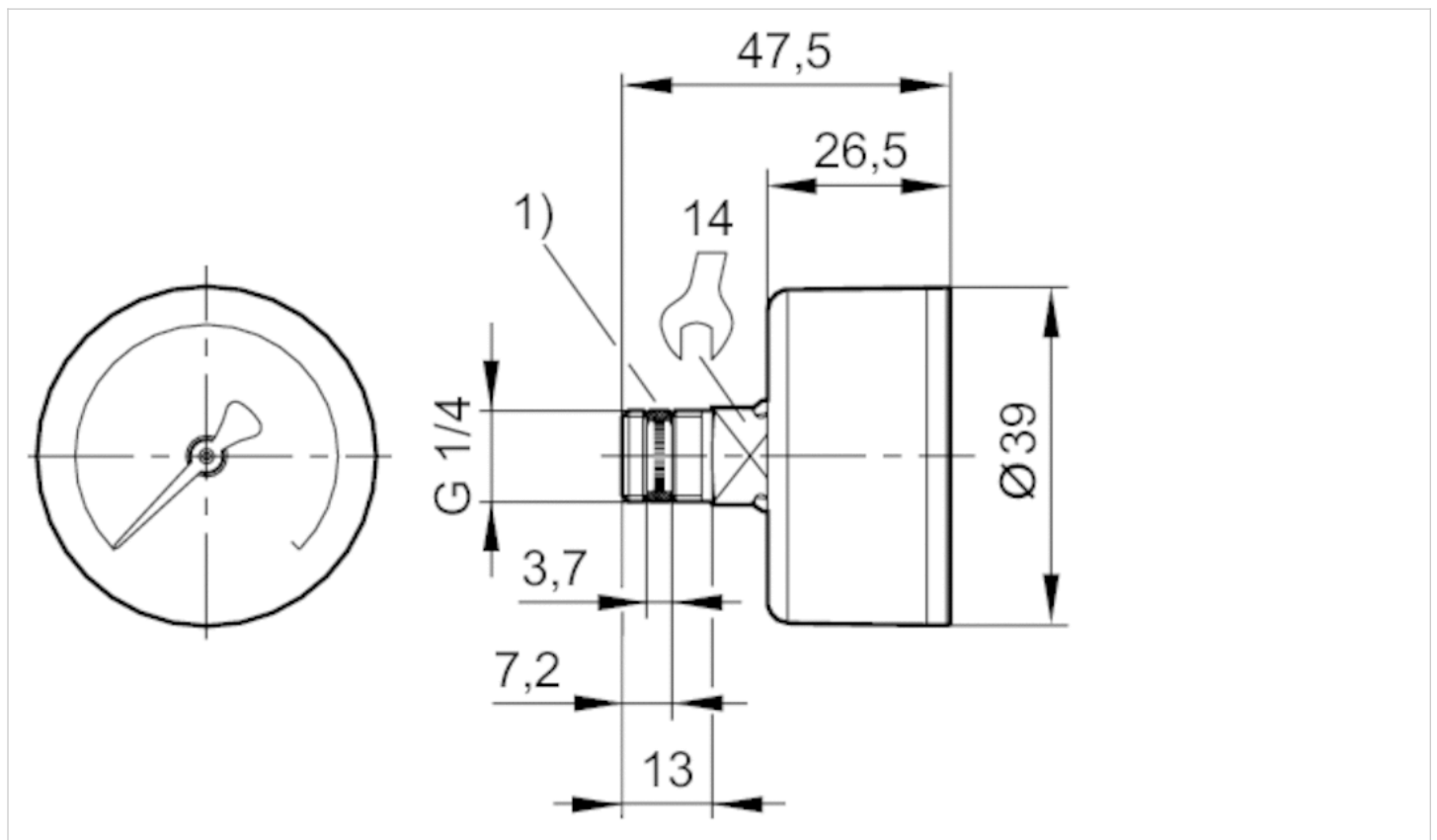
| Part No. | Weight | Fig. | |
|------------|---------|--------|----|
| R412004407 | 0.08 kg | Fig. 1 | - |
| R412004408 | 0.08 kg | Fig. 1 | - |
| R412004409 | 0.08 kg | Fig. 1 | - |
| R412004410 | 0.08 kg | Fig. 1 | - |
| R412004411 | 0.08 kg | Fig. 1 | - |
| R412004412 | 0.08 kg | Fig. 1 | - |
| R412004413 | 0.09 kg | Fig. 2 | - |
| R412004414 | 0.09 kg | Fig. 2 | - |
| R412004415 | 0.09 kg | Fig. 2 | - |
| R412004416 | 0.09 kg | Fig. 2 | - |
| R412004417 | 0.09 kg | Fig. 2 | 1) |
| R412004418 | 0.09 kg | Fig. 2 | 1) |
| R412007898 | 0.09 kg | Fig. 2 | - |
| R412004419 | 0.1 kg | Fig. 3 | - |
| R412004420 | 0.1 kg | Fig. 3 | - |
| R412004421 | 0.1 kg | Fig. 3 | - |
| R412004422 | 0.1 kg | Fig. 3 | - |
| R412004423 | 0.1 kg | Fig. 3 | - |
| R412004424 | 0.1 kg | Fig. 3 | - |

Technical information

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

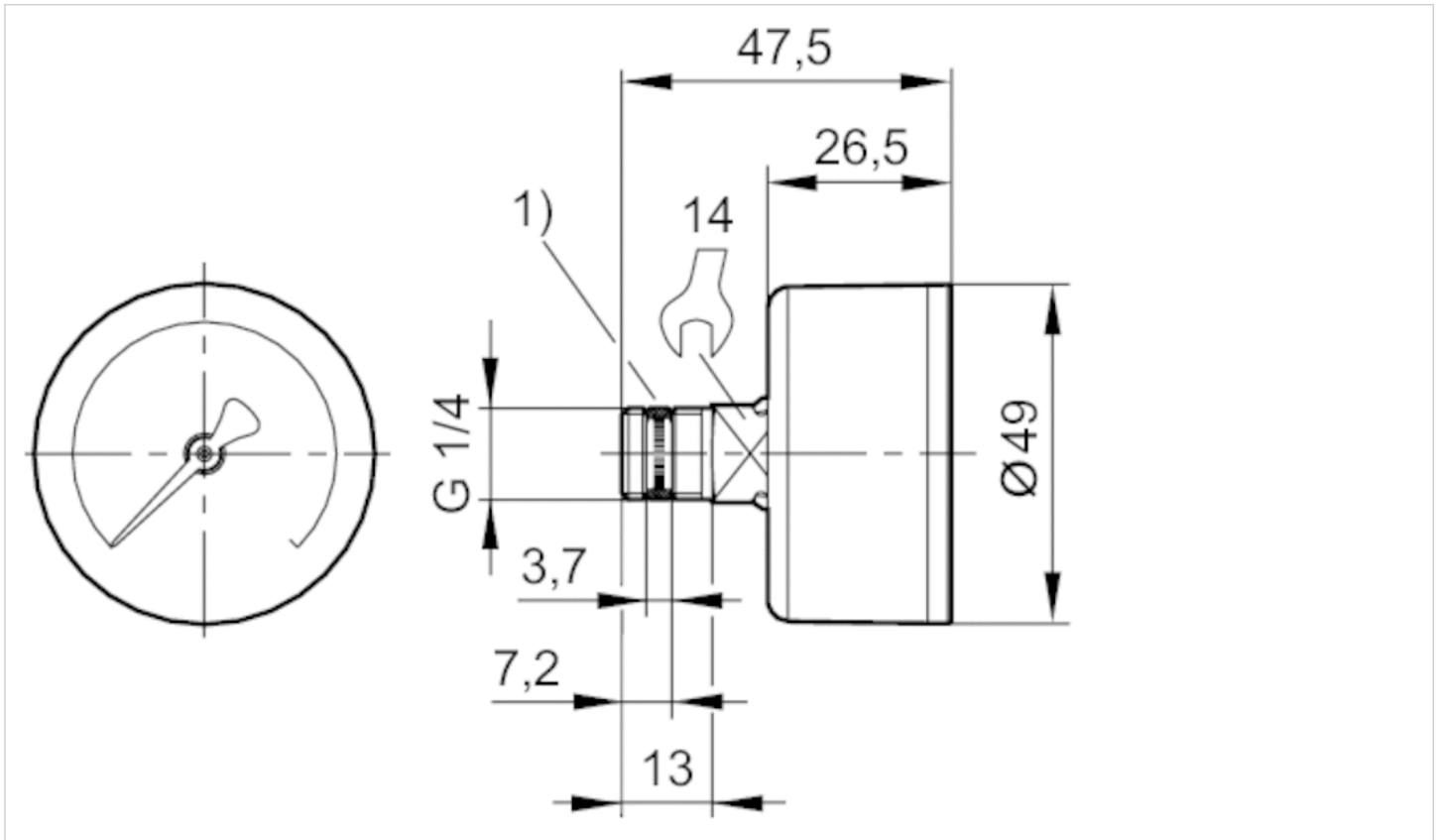
Dimensions

Dimensions in mm, Fig. 1



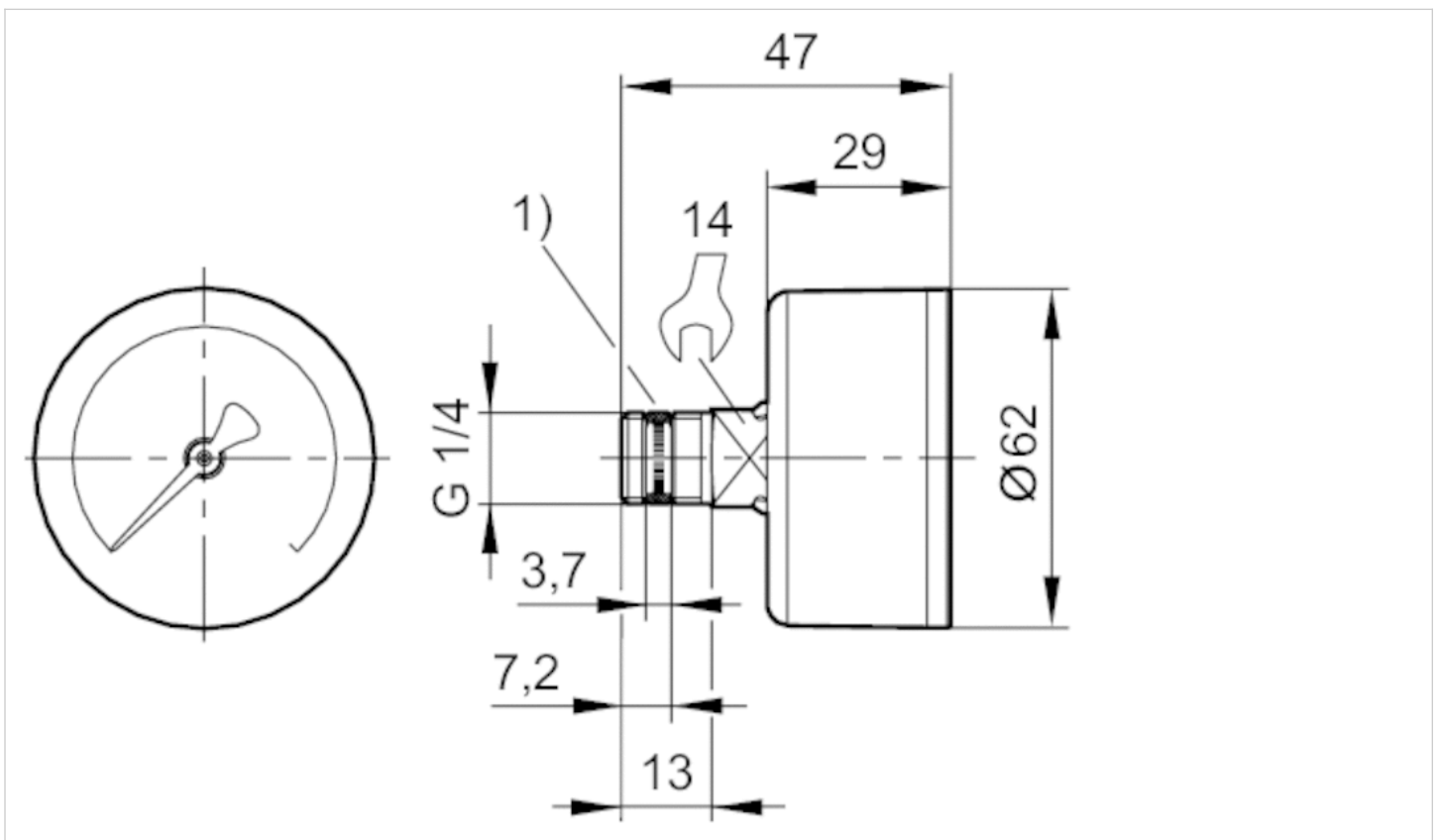
1) Gasket thread

Dimensions in mm, Fig. 2



1) Gasket thread

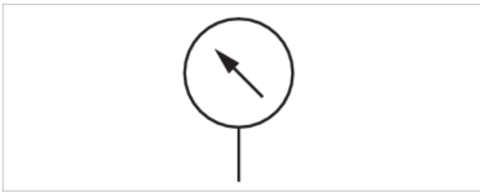
Dimensions in mm, Fig. 3



1) Gasket thread

Pressure gauge, Series PG1-SAS-ADJ

- Back port
- with adjustable work area display
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi



| | |
|--------------------------------|-----------------------------------|
| Version | Bourdon tube pressure gauge |
| Version | with adjustable work area display |
| Standardization | EN 837-1 |
| Class | 2,5 |
| Ambient temperature min./max. | -40 ... 60 °C |
| Medium | Compressed air |
| Work area | adjustable work area display |
| Work Area Display, Color | Red Green |
| Main scale unit (outside) | bar |
| Main scale color (outside) | White |
| Secondary scale unit (inside) | psi |
| Secondary scale color (inside) | Grey |
| Background color | Black |
| Pointer color | White |
| Weight | 0.1 kg |

Technical data

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

Technical information

To set the operating range, the cover (inspection glass) must be removed. To do this, carefully lift the inspection glass by inserting a pointed or flat object in the slot provided for this purpose on the housing circumference.

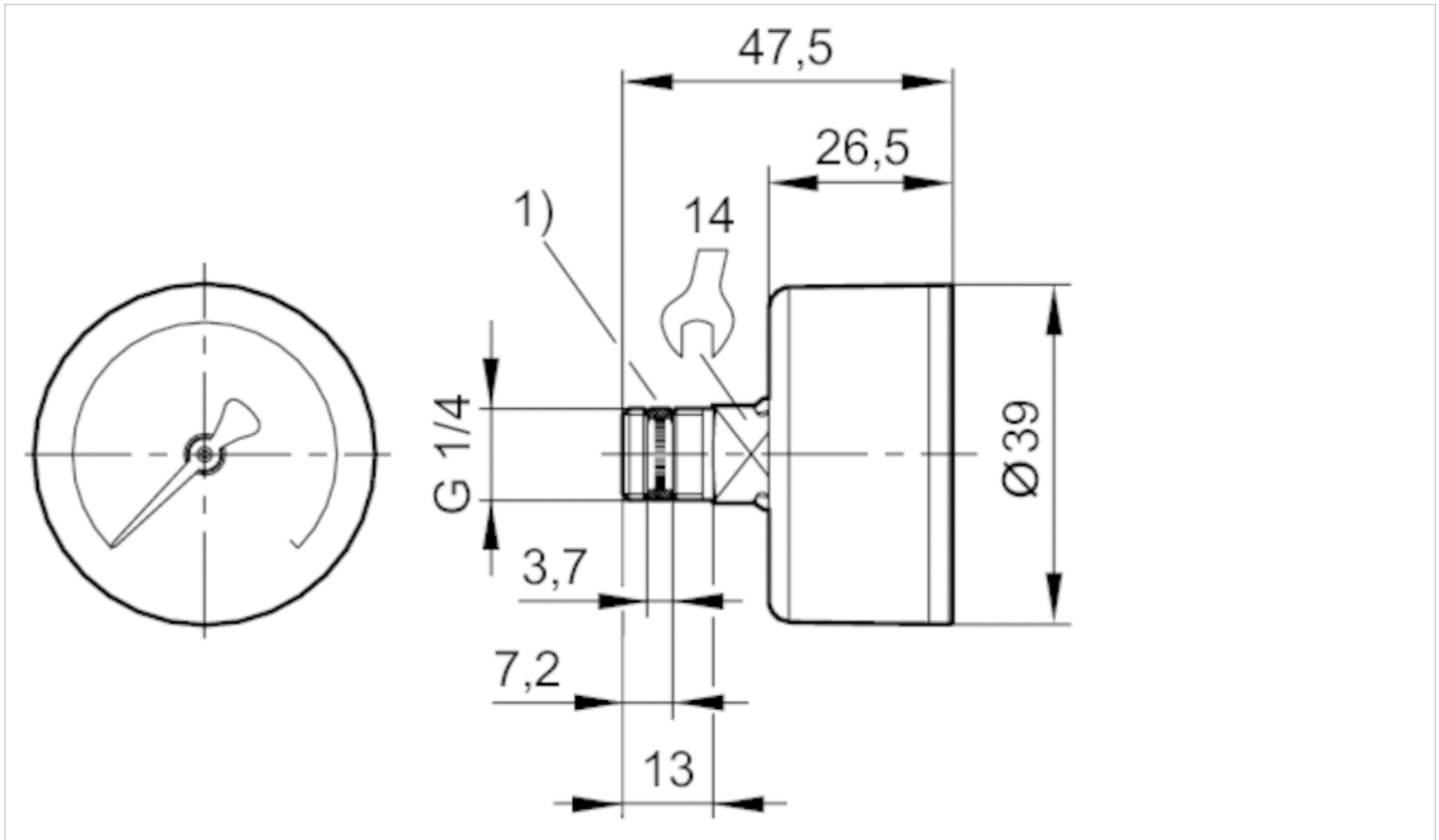
Technical information

| Material | |
|----------|---------------------------------|
| Housing | Acrylonitrile butadiene styrene |
| Thread | Brass |

| | |
|----------------|------------------------|
| Material | |
| Viewing window | Polystyrene |
| Seal | Polytetrafluorethylene |

Dimensions

Dimensions in mm, Fig. 1



1) Gasket thread

Dimensions in mm

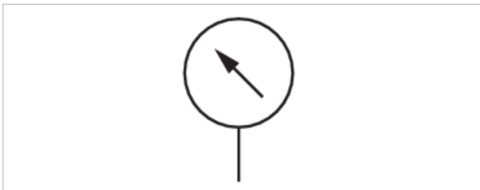
| Compressed air connection | Nominal diameter | Ø A | B | C | D | E | F | SW |
|---------------------------|------------------|-----|------|------|----|-----|-----|----|
| G 1/4 | 50 mm | 49 | 47.5 | 26.5 | 13 | 7.2 | 3.7 | 14 |

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



| | |
|---------------------------------------|--------------------------|
| Version | Diaphragm pressure gauge |
| Mounting orientation | vertical |
| Ambient temperature min./max. | 0 ... 60 °C |
| Medium | Compressed air |
| Color for differential pressure range | Green Red |
| Main scale unit (outside) | bar |
| Main scale color (outside) | Black |
| Background color | White |
| Pointer color | Black |
| Weight | 0.127 kg |



Technical data

| Part No. | Range of application | Display range | Operating pressure | Scale value |
|------------|----------------------|---------------|--------------------|-------------|
| 1827231072 | 0 ... 0.5 bar | 0 ... 0.5 bar | 0 ... 16 bar | 0.1 |

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

Technical information

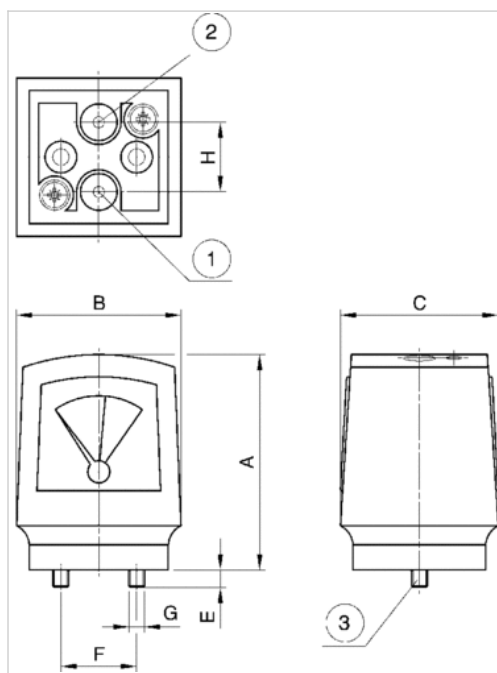
Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

| Material | |
|----------------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Viewing window | Polystyrene |
| Seal | Acrylonitrile butadiene styrene |

Dimensions

Dimensions



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

Dimensions in mm

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

contamination display

- for prefilters and microfilters



Weight

0.025 kg

Technical data

Part No.

R412006363

2 mounting screws and 2 O-rings supplied loose, Suitable for use in Ex zones 1, 2, 21, 22.

Technical information

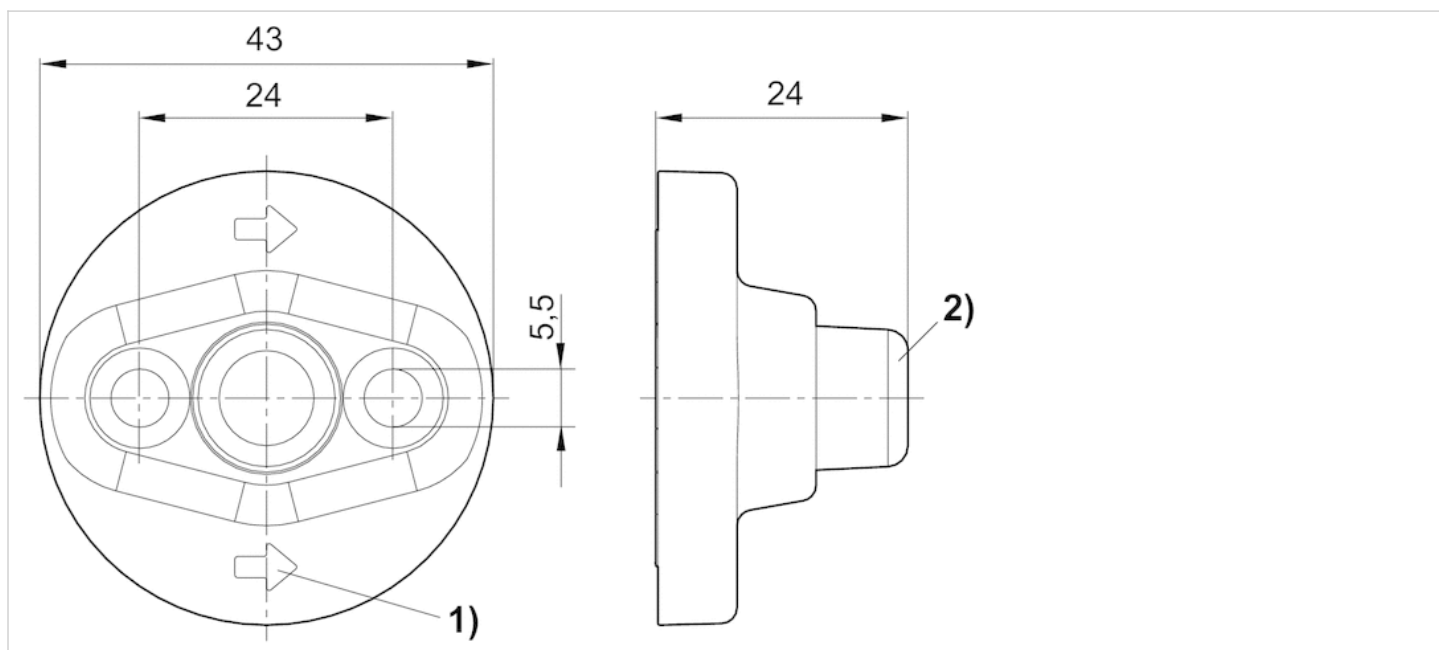
Material

Material

Polyamide

Dimensions

Dimensions in mm



1) Flow direction

2) Display in initial state: green (= Δp 0.35 bar)

Display turns red on contamination of the filter element (= $\Delta p \geq 0.35$ bar).

3/2-directional valve, Series DO16

- 3/2
- Plate connection
- Electrical connection : Plug, ISO 15217, form C
- Manual override : without detent with detent
- With spring return



| | |
|----------------------------------------------------|---------------------------|
| Version | Poppet valve |
| Activation | Electrically |
| Sealing principle | Soft sealing |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow 1 ▶ 2 | See table below |
| Nominal flow 2 ▶ 3 | See table below |
| Protection class acc. to DIN EN 61140 Electrically | Class I |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting on manifold strip | PRS strip |
| mounting screws | M3 |
| Weight | 0.035 kg |

Technical data

| Part No. | MO | Operational voltage | |
|------------|----|---------------------|----------|
| | | DC | AC 50 Hz |
| 0820048002 | | 24 V | - |
| 0820048004 | | - | 24 V |
| 0820048005 | | - | - |
| 0820048001 | | - | 230 V |
| 0820048026 | | 24 V | - |
| 0820048028 | | - | 24 V |
| 0820048101 | | - | 230 V |
| 0820048029 | | - | - |
| 0820048025 | | - | 230 V |
| 0820048102 | | 24 V | - |
| 0820048126 | | 24 V | - |

| Part No. | Operational voltage | Voltage tolerance | | |
|------------|---------------------|-------------------|-------------|-------------|
| | | DC | AC 50 Hz | AC 60 Hz |
| 0820048002 | - | -10% / +15% | - | - |
| 0820048004 | - | - | -10% / +15% | - |
| 0820048005 | 110 V | - | - | -10% / +15% |
| 0820048001 | - | - | -10% / +15% | - |

| Part No. | Operational voltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|------------|---------------------|-------------------|-------------------|-------------------|
| | | DC | AC 50 Hz | AC 60 Hz |
| 0820048026 | - | -10% / +15% | - | - |
| 0820048028 | - | - | -10% / +15% | - |
| 0820048101 | - | - | -10% / +15% | - |
| 0820048029 | 110 V | - | - | -10% / +15% |
| 0820048025 | - | - | -10% / +15% | - |
| 0820048102 | - | -10% / +15% | - | - |
| 0820048126 | - | -10% / +15% | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| 0820048002 | 2 W | - | - | - |
| 0820048004 | - | 1.6 VA | - | 2.2 VA |
| 0820048005 | - | - | 1.4 VA | - |
| 0820048001 | - | 1.6 VA | - | 2.2 VA |
| 0820048026 | 2 W | - | - | - |
| 0820048028 | - | 1.6 VA | - | 2.2 VA |
| 0820048101 | - | 1.6 VA | - | 2.2 VA |
| 0820048029 | - | - | 1.4 VA | - |
| 0820048025 | - | 1.6 VA | - | 2.2 VA |
| 0820048102 | 2 W | - | - | - |
| 0820048126 | 2 W | - | - | - |

| Part No. | Switch-on power | Nominal flow 1 ▶ 2 | Nominal flow 2 ▶ 3 | Working pressure min./max. |
|------------|-----------------|--------------------|--------------------|----------------------------|
| | AC 60 Hz | | | |
| 0820048002 | - | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048004 | - | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048005 | 2 VA | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048001 | - | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048026 | - | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048028 | - | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048101 | - | 16 l/min | 19 l/min | 0 ... 6 bar |
| 0820048029 | 2 VA | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048025 | - | 25 l/min | 36 l/min | 0 ... 10 bar |
| 0820048102 | - | 20 l/min | 26 l/min | 0 ... 8 bar |
| 0820048126 | - | 20 l/min | 26 l/min | 0 ... 8 bar |

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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. Further information can be found in the "Technical information" document (available in the MediaCentre).

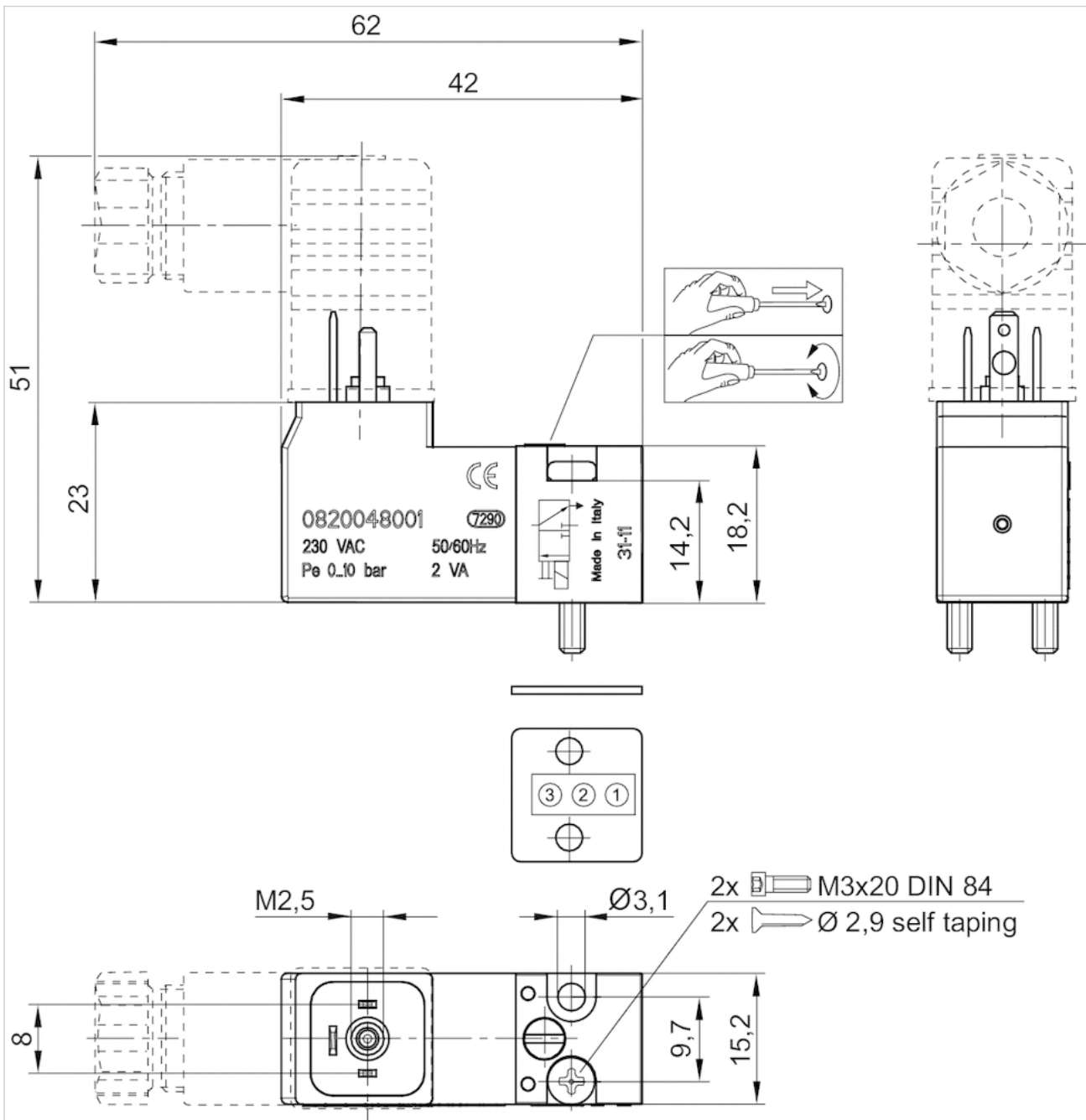
Technical information

Material

| | |
|---------|--------------------------------------------------------|
| Housing | polyphenylene sulfide Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

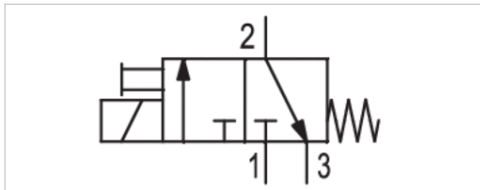
Dimensions

Dimensions





3/2-directional valve, Series DO16

- 3/2
- NC
- Plate connection
- Electrical connection : M12, 3-pin
- Manual override : without detent
- With spring return



| | |
|---------------------------------------|---------------------------|
| Version | Poppet valve |
| Activation | Electrically |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow 1 ▶ 2 | 18 l/min |
| Nominal flow 2 ▶ 3 | 24 l/min |
| Protection class acc. to DIN EN 61140 | Class I |
| Electrically | |
| Duty cycle | 100 % |
| Mounting on manifold strip | PRS strip |
| Weight | 0.035 kg |

Technical data

| Part No. | MO | | Operational voltage | Power consumption | | |
|------------|-------------------------------------------------------------------------------------|----|---------------------|-------------------|-------|----|
| | | | | DC | DC | |
| R412013391 |  | NC | 24 V | | 1.5 W | 1) |
| R412019226 |  | NC | 24 V | | 1.5 W | 2) |

1) Pilot valve only

2) Incl. pilot valve, seal, screws, and manual

Technical information

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. Further information can be found in the "Technical information" document (available in the MediaCentre).

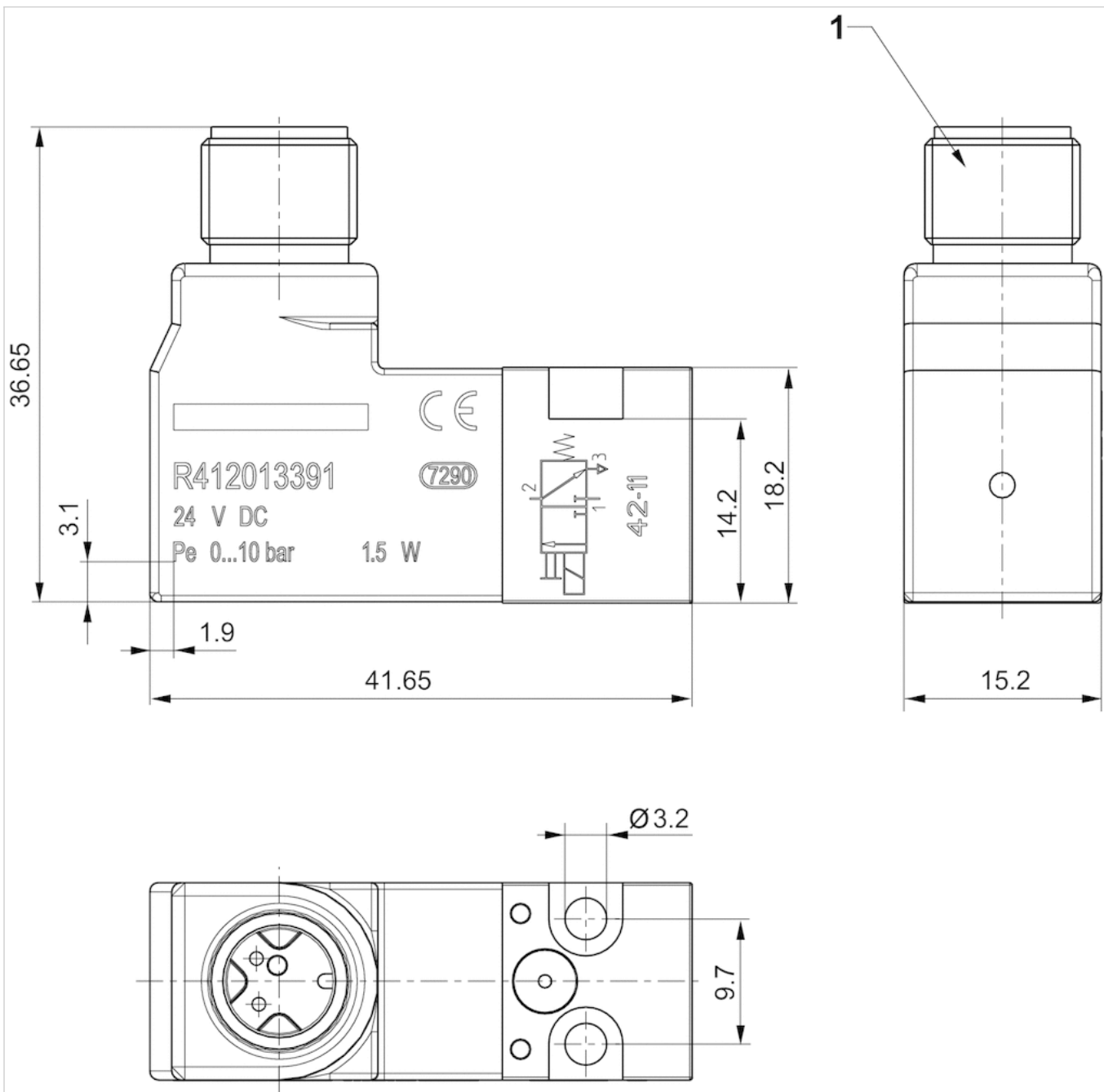
Technical information

Material

| | |
|---------|--------------------------------------------------------|
| Housing | polyphenylene sulfide Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



1) Port for plug M12x1



3/2-directional valve, Series DO30

- 3/2
- Pilot valve width : 30 mm
- Plate valve with pipe connection
- Compressed air connection output : CNOMO
- Electrical connection : Plug, EN 175301-803, form A
- Manual override : without detent with detent
- With spring return
- suitable for ATEX



| | |
|-----------------------------------------------|---------------------------|
| Version | Poppet valve |
| Activation | Electrically |
| Sealing principle | Soft sealing |
| Standards | CNOMO / NFE 49-003-1 |
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow 1 ▶ 2 | See table below |
| Nominal flow 2 ▶ 3 | See table below |
| Protection class with connection | IP65 |
| Compatibility index | 15 |
| Duty cycle | 100 % |
| Mounting on manifold strip mounting screws | P-strip M4 |
| Weight | 0.06 kg |

Technical data

| Part No. | MO | Compressed air connection | |
|------------|-------------------------------------------------------------------------------------|---------------------------|--------|
| | | Input | Output |
| 0820019985 |  | CNOMO | CNOMO |
| 0820019980 |  | CNOMO | CNOMO |

| Part No. | Compressed air connection | | Nominal flow 1 ▶ 2 | Nominal flow 2 ▶ 3 |
|------------|---------------------------|--|--------------------|--------------------|
| | Exhaust | | | |
| 0820019985 | M5 | | 68 l/min | 90 l/min |
| 0820019980 | M5 | | 65 l/min | 80 l/min |

| Part No. | basic valve with electrical connector | Power consumption | ATEX |
|------------|---------------------------------------|--------------------------|-------------------|
| 0820019985 | Basic valve without coil | Higher voltage tolerance | suitable for ATEX |
| 0820019980 | Basic valve without coil | Higher voltage tolerance | suitable for ATEX |

Nominal flow Q_n at 6 bar and Δp = 1 bar, MO = Manual override
pilot valve without coil

Technical information

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. Further information can be found in the “Technical information” document (available in the MediaCentre).

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.

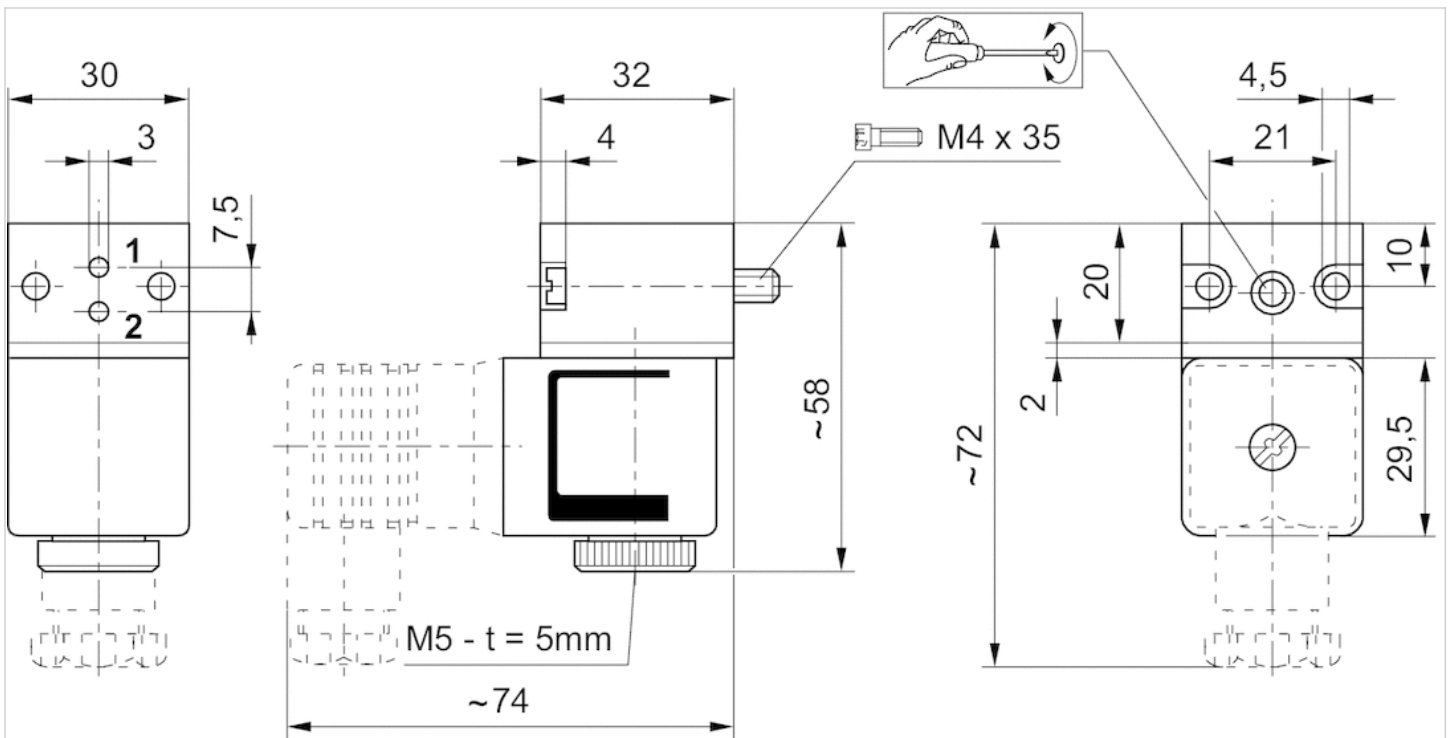
Technical information

Material

| | |
|---------|------------------|
| Housing | Plastic |
| Seals | Fluorocaoutchouc |

Dimensions

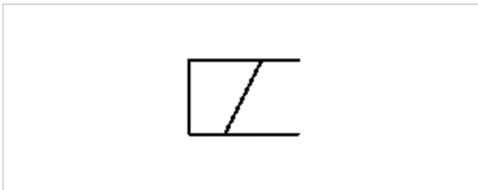
Dimensions



t = depth

Coil, Series CO1

- Cable with valve plug connector
- Coil width 30 mm
- Power consumption DC 3.25 W
- Holding power AC 2.9-3 VA
- Switch-on power AC 3-3.1 VA
- ATEX



| | |
|-------------------------------|------------------------------------|
| Certificates | ATEX |
| ATEX class G | II 2G Ex mb IIC T4 Gb |
| ATEX class D | II 2D Ex mb tb IIIC T130°C Db IP65 |
| Ambient temperature min./max. | -20 ... 50 °C |
| Protection class | IP65 |
| Duty cycle ED | 100 % |
| Compatibility index | 14 |
| Weight | See table below |

Technical data

| Part No. | Operational voltage | Operational voltage | Operational voltage |
|------------|---------------------|---------------------|---------------------|
| | DC | AC 50 Hz | AC 60 Hz |
| 1827414297 | - | 230 V | 230 V |
| 1827414298 | - | 230 V | 230 V |
| 1827414299 | - | 110 V | 110 V |
| 1827414303 | 24 V | - | - |
| 1827414304 | 24 V | - | - |

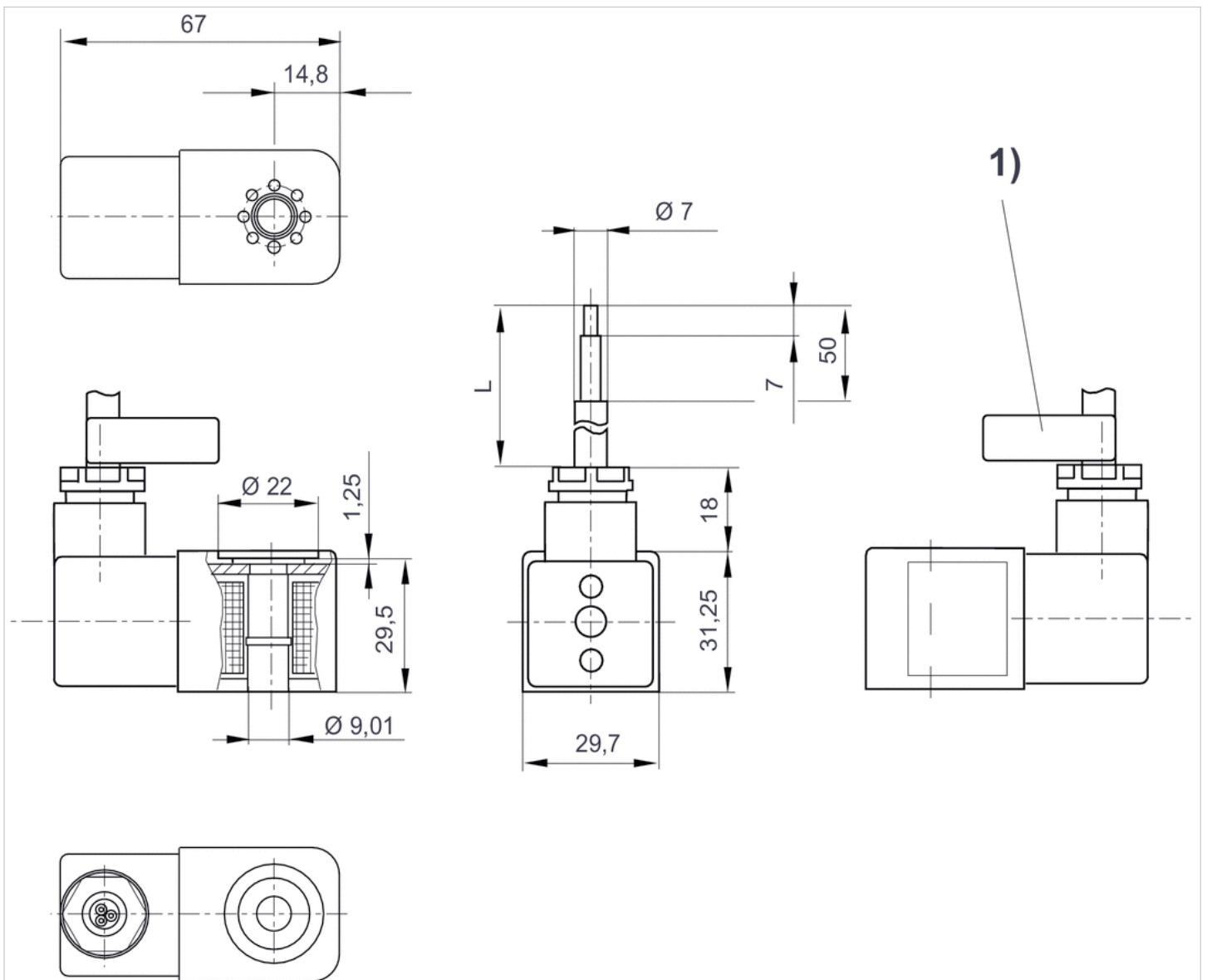
| Part No. | Voltage tolerance | Voltage tolerance | Power consumption | Holding power |
|------------|-------------------|-------------------|-------------------|---------------|
| | DC | AC 50 Hz | DC | AC 50 Hz |
| 1827414297 | - | -10% / +10% | - | 3 VA |
| 1827414298 | - | -10% / +10% | - | 3 VA |
| 1827414299 | - | -10% / +10% | - | 2.9 VA |
| 1827414303 | -10% / +10% | - | 3.25 W | - |
| 1827414304 | -10% / +10% | - | 3.25 W | - |

| Part No. | Switch-on power | Cable length | Weight |
|------------|-----------------|--------------|---------|
| | AC 50 Hz | | |
| 1827414297 | 3.1 VA | 3 m | 0.38 kg |
| 1827414298 | 3.1 VA | 10 m | 0.91 kg |
| 1827414299 | 3 VA | 3 m | 0.38 kg |

| Part No. | Switch-on power | Cable length | Weight |
|------------|-----------------|--------------|---------|
| | AC 50 Hz | | |
| 1827414303 | - | 3 m | 0.38 kg |
| 1827414304 | - | 10 m | 0.91 kg |

Dimensions

Dimensions



L = cable length

1) Cable ID band with serial number


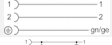
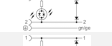



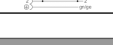
Valve plug connector, series CON-VP

- Socket form C 2+E angled 90°
- open cable ends 3-pin
- with cable
- unshielded



| | |
|----------------------------------|----------------------|
| Ambient temperature min./max. | -20 ... 80 °C |
| Operational voltage | See table below |
| Protection class | IP67 |
| Wire cross-section | 0.75 mm ² |
| Mounting screw tightening torque | 0.4 Nm |
| Weight | See table below |

Technical data

| Part No. | | Operational voltage | Max. current | Protective circuit | Contact assignment |
|------------|-------------------------------------------------------------------------------------|---------------------|--------------|--------------------|--------------------|
| 1834484213 |  | 230 V AC/DC | 6 A | - | 2+E |
| 1834484215 |  | 230 V AC/DC | 6 A | - | 2+E |
| 1834484205 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |
| 1834484207 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |
| 1834484209 |  | 230 V AC/DC | 6 A | Varistor | 2+E |
| 1834484211 |  | 230 V AC/DC | 6 A | Varistor | 2+E |
| 1834484236 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |

| Part No. | LED status display | Number of wires | Cable-Ø | Cable length | Weight | Fig. | |
|------------|--------------------|-----------------|---------|--------------|----------|--------|----|
| 1834484213 | - | 3 | 5.9 mm | 3 m | 0.183 kg | Fig. 2 | - |
| 1834484215 | - | 3 | 5.9 mm | 5 m | 0.308 kg | Fig. 2 | - |
| 1834484205 | Yellow | 3 | 5.9 mm | 3 m | 0.185 kg | Fig. 2 | 1) |
| 1834484207 | Yellow | 3 | 5.9 mm | 5 m | 0.298 kg | Fig. 2 | 1) |
| 1834484209 | Yellow | 3 | 5.9 mm | 3 m | 0.194 kg | Fig. 2 | 1) |
| 1834484211 | Yellow | 3 | 5.9 mm | 5 m | 0.285 kg | Fig. 2 | 1) |
| 1834484236 | Yellow | 3 | 5.9 mm | 10 m | 0.571 kg | Fig. 2 | 1) |

1) Scope of delivery incl. flat gasket

Technical information

The specified protection class is only valid in assembled and tested state.

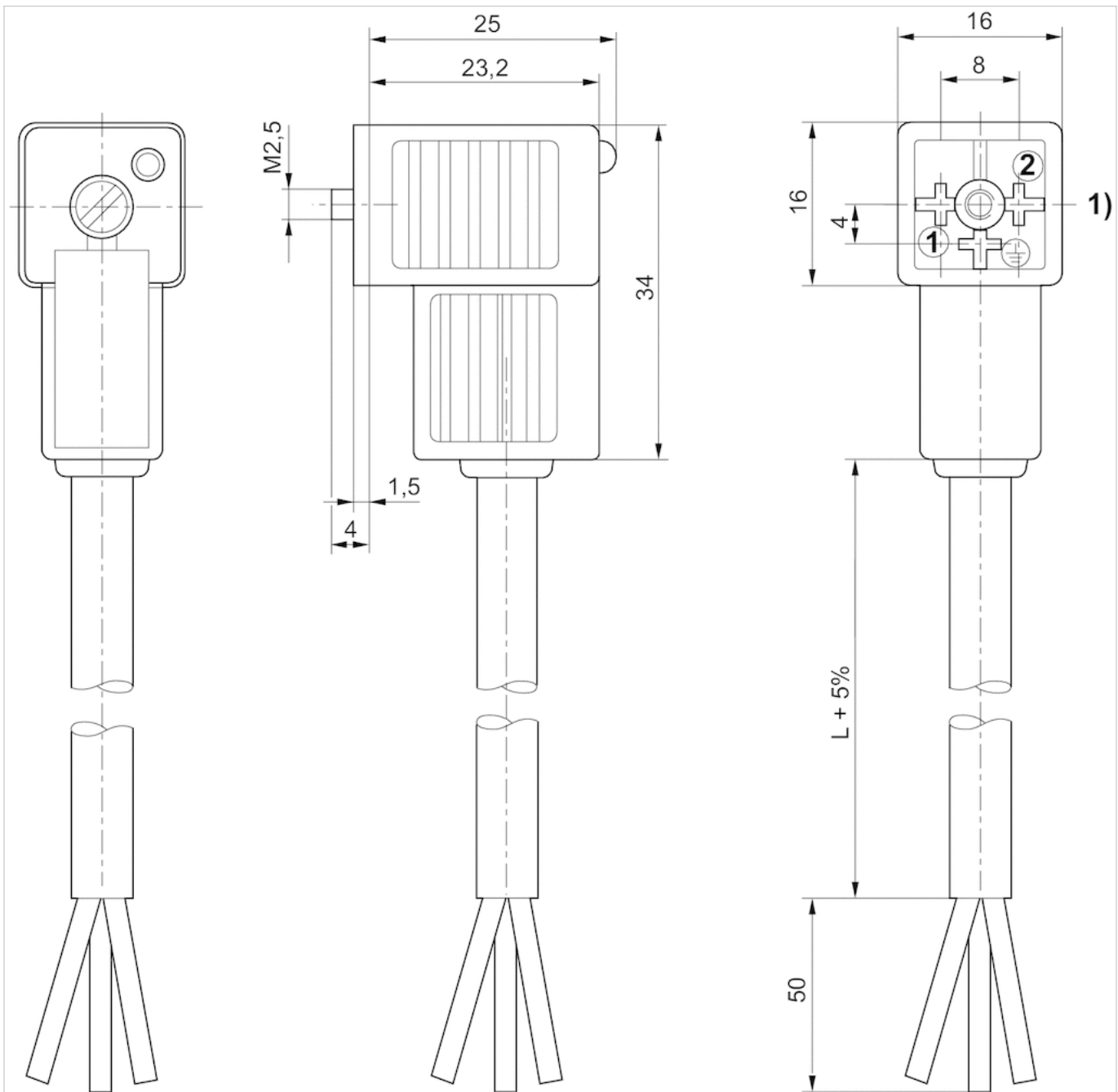
Technical information

Material

| | |
|--------------|---------------------------------|
| Seals | caoutchouc/butadiene caoutchouc |
| Cable sheath | Polyvinyl chloride |

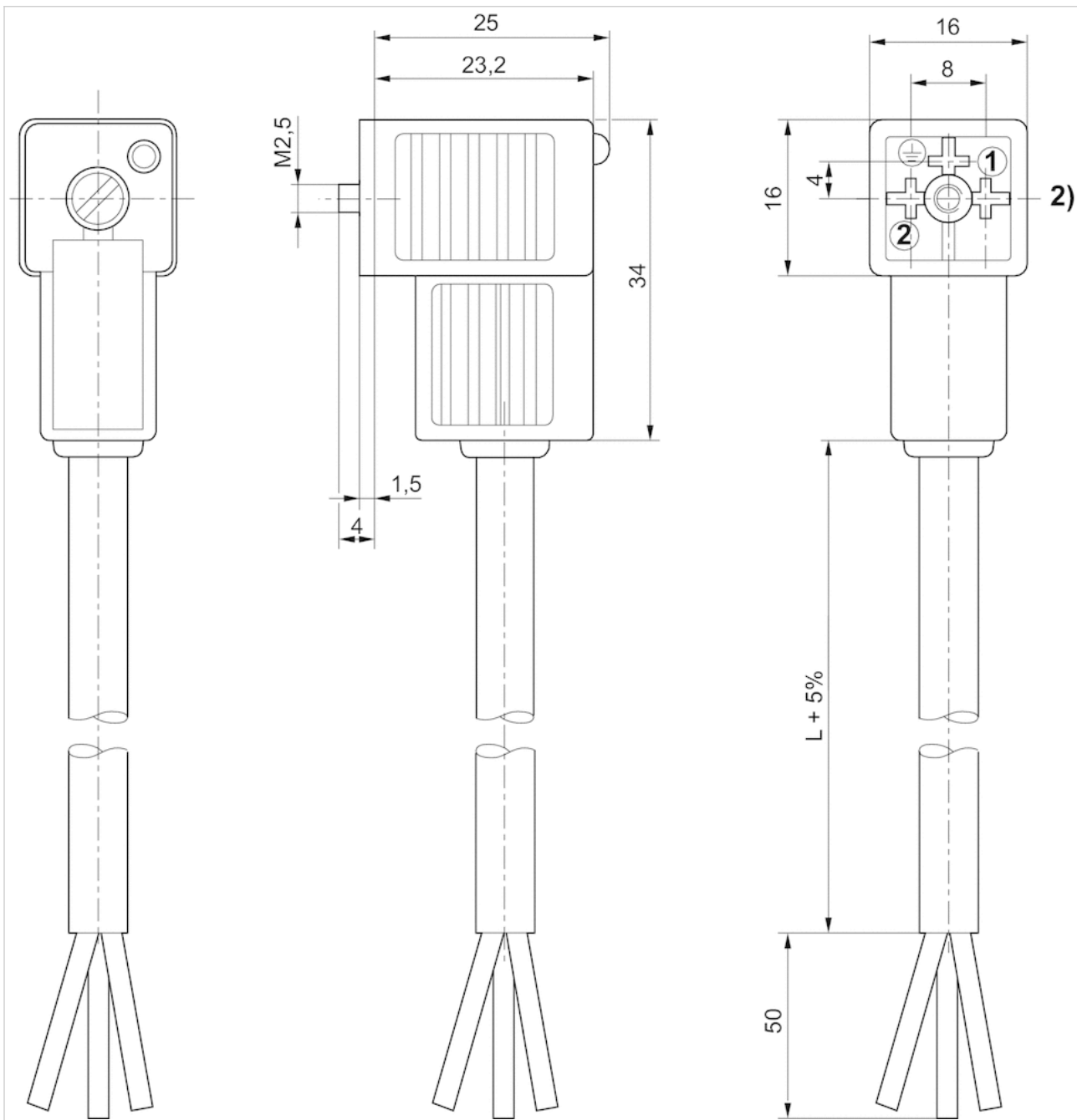
Dimensions

Fig. 1



1) 0° female insert

Fig. 2



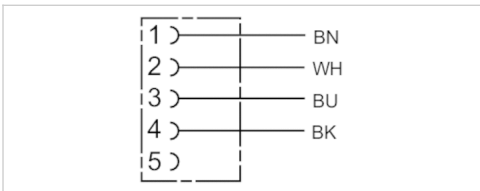
2) 180° female insert

Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded angled 90°
- open cable ends
- for DeviceNet
- with cable
- unshielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP65 |
| Wire cross-section | 0.34 mm ² |
| Weight | See table below |



Technical data

| Part No. | Max. current | Number of wires | Cable-Ø | Cable length | Weight |
|------------|--------------|-----------------|---------|--------------|----------|
| 1834484259 | 4 A | 4 | 5.2 mm | 3 m | 0.126 kg |
| 1834484260 | 4 A | 4 | 5.2 mm | 5 m | 0.195 kg |
| 1834484261 | 4 A | 4 | 5.2 mm | 10 m | 0.38 kg |

Technical information

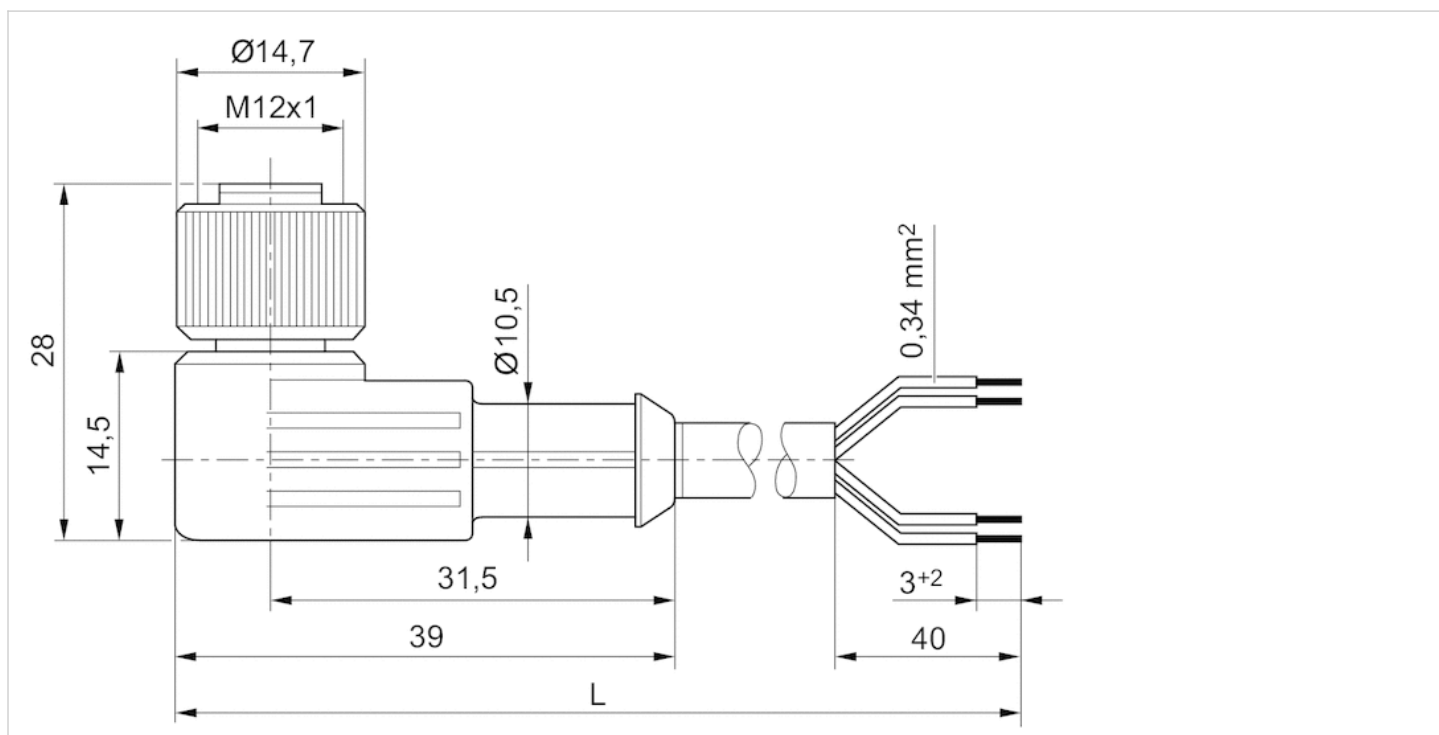
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|--------------|--------------|
| Cable sheath | Polyurethane |

Dimensions

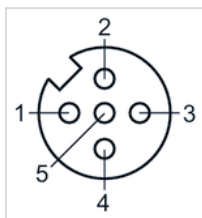
Dimensions



L = length

Pin assignments

Pin assignment, socket



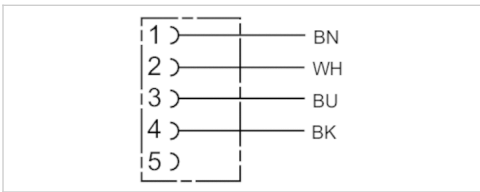
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded straight 180°
- open cable ends
- with cable
- unshielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -25 ... 70 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Wire cross-section | 0.34 mm ² |
| Weight | See table below |



Technical data

| Part No. | Max. current | Number of wires | Cable-Ø | Cable length | Weight |
|------------|--------------|-----------------|---------|--------------|----------|
| 1834484256 | 4 A | 4 | 5.2 mm | 3 m | 0.122 kg |
| 1834484257 | 4 A | 4 | 5.2 mm | 5 m | 0.194 kg |
| 1834484258 | 4 A | 4 | 5.2 mm | 10 m | 0.373 kg |

Technical information

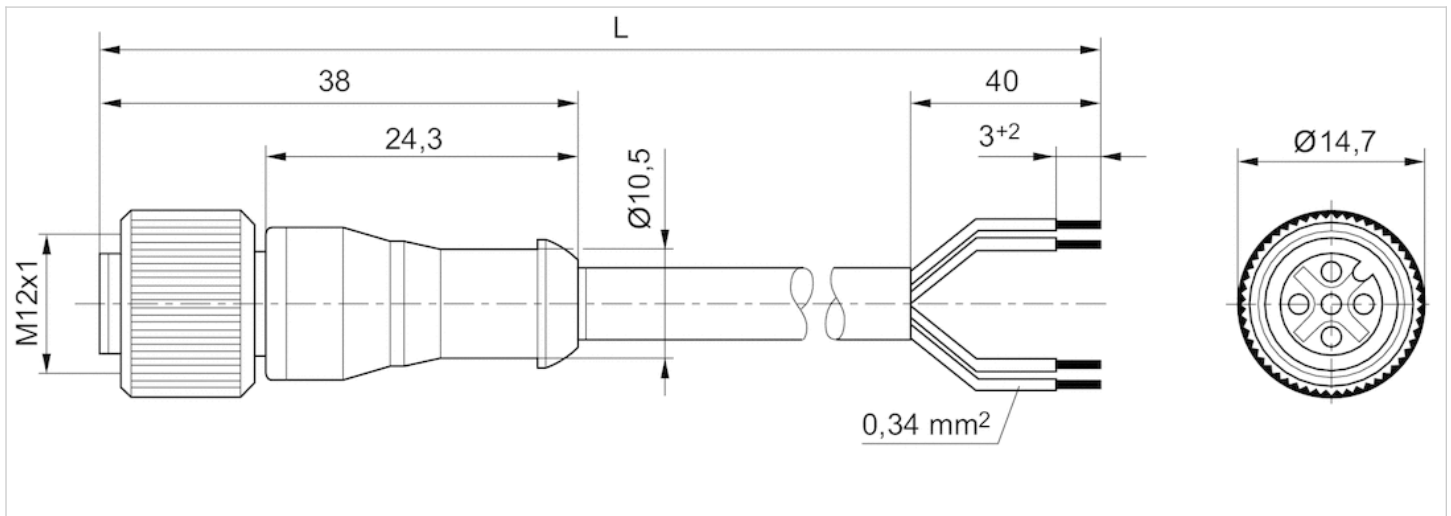
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|--------------|--------------|
| Cable sheath | Polyurethane |

Dimensions

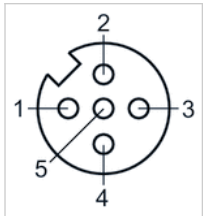
Dimensions



L = length

Pin assignments

Pin assignment, socket



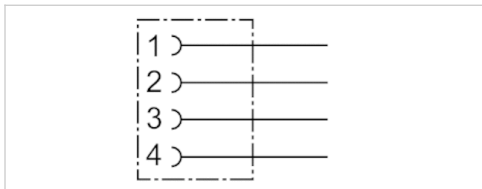
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, straight, 180°
- UL (Underwriters Laboratories)
- unshielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.015 kg |



Technical data

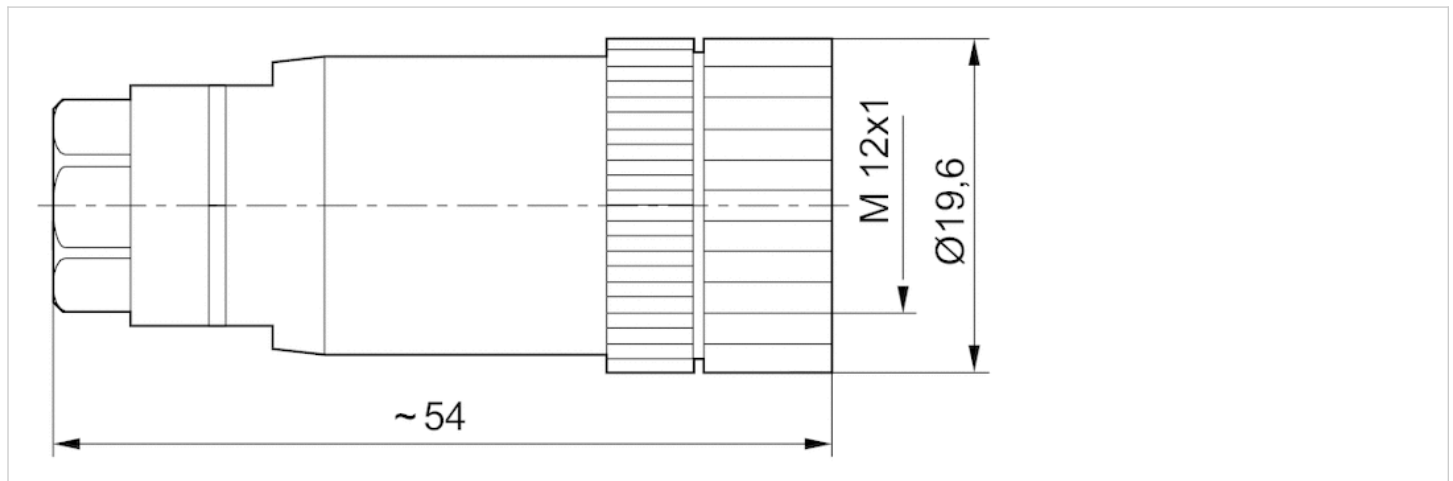
| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 1834484177 | 4 A | 4 / 6 mm |

Technical information

| Material | |
|----------|-----------|
| Housing | Polyamide |

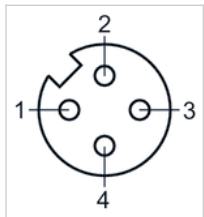
Dimensions

Dimensions



Pin assignments

Pin assignment, socket



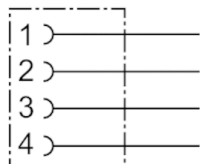
Round plug connector, Series CON-RD

- Socket, M12x1, 4-pin, A-coded, angled, 90°

- unshielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.016 kg |



Technical data

| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 1834484178 | 4 A | 4 mm |

Technical information

The specified protection class is only valid in assembled and tested state.

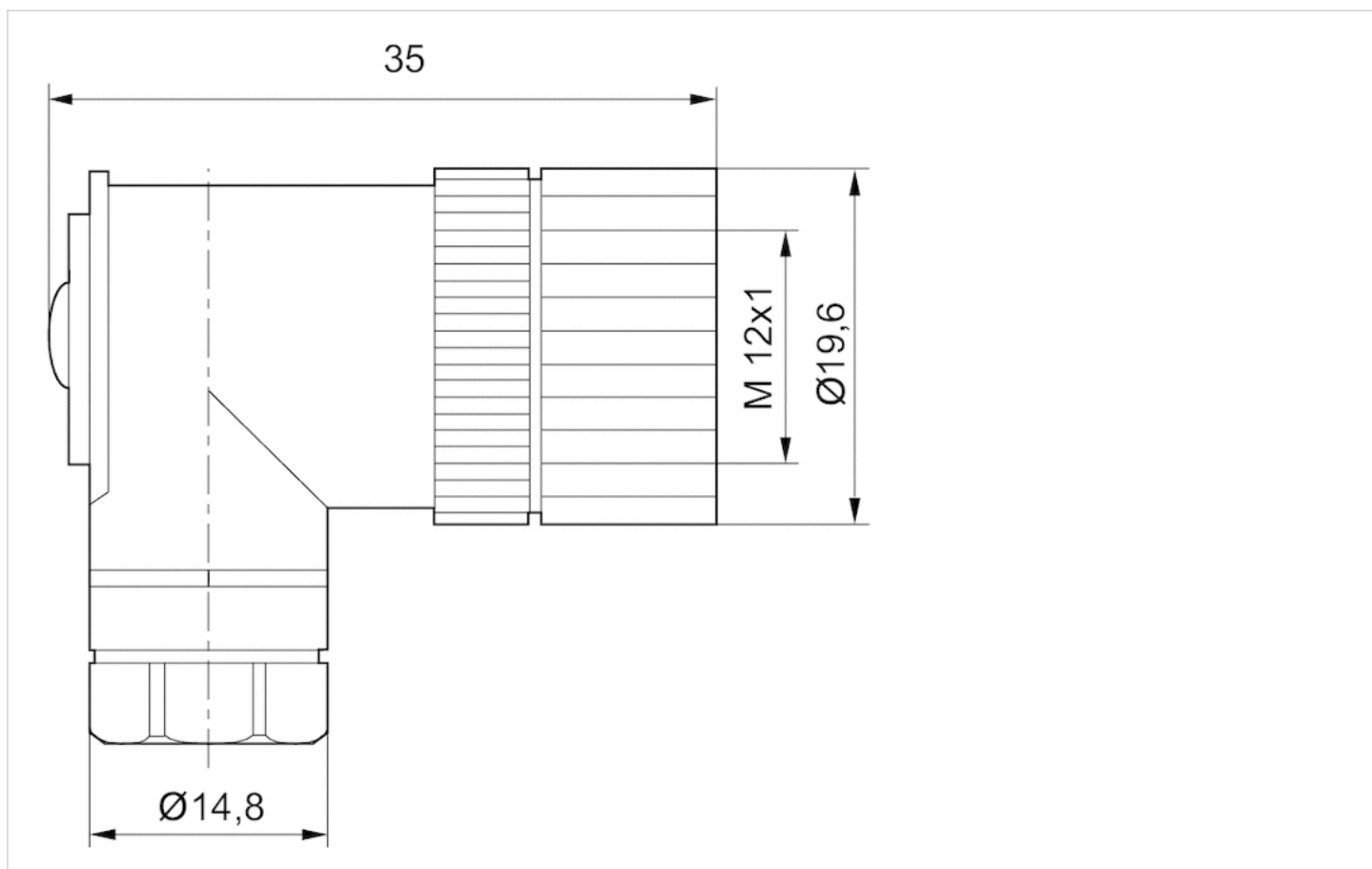
Technical information

Material

| | |
|---------|-----------|
| Housing | Polyamide |
|---------|-----------|

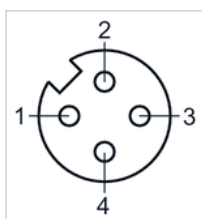
Dimensions

Dimensions



Pin assignments

Pin assignment, socket

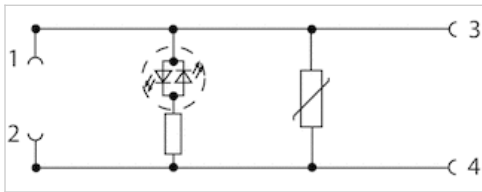


Adapter, Series CON-VP

- Socket, form C, 2+E, angled, 90°
- Plug, M12x1, 3-pin, A-coded, straight, 180°
- unshielded
- with LED Yellow



| | |
|----------------------------------|--------------|
| Ambient temperature min./max. | -10 ... 0 °C |
| Operational voltage | 24 V DC |
| Protection class | IP65 |
| Protective circuit | Varistor |
| Mounting screw tightening torque | 0.6 Nm |
| Weight | 0.013 kg |



Technical data

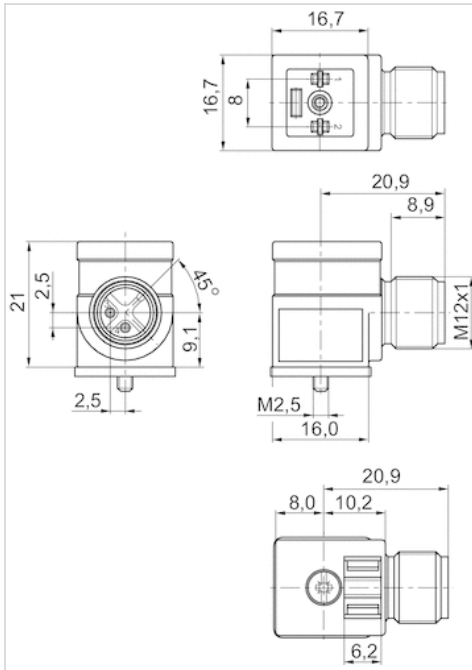
| Part No. | Max. current | Protective circuit | Contact assignment | LED status display |
|------------|--------------|--------------------|--------------------|--------------------|
| R412009553 | 1 A | Varistor | 2+E | Yellow |

Technical information

| Material | |
|----------|--------------|
| Housing | Polyurethane |

Dimensions

Dimensions



Transition plate, Series AS1, AS2, AS3, AS5

- Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot



Weight

0.025 kg

Technical data

Part No.

R412006360

Scope of delivery incl. 4 mounting screws, 2 O-rings

Technical information

Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot

Technical information

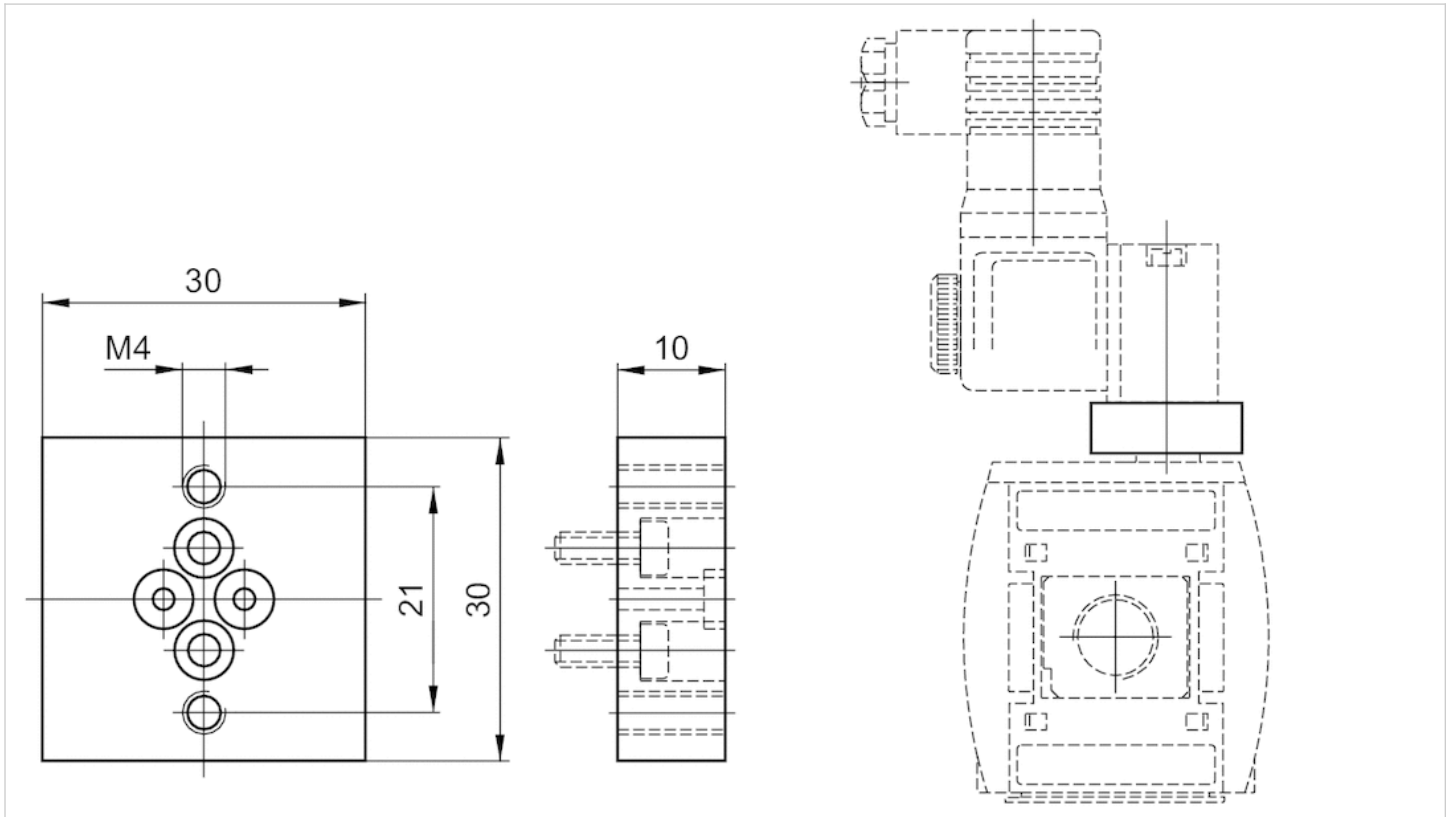
Material

Material

Aluminum

Dimensions

Dimensions in mm



Adapter

- Adapter for connecting the control pressure to a AS series 3/2 directional shut-off valve without pilot control to realize pneumatic actuation, G 1/8
- G 1/8
- AS1 AS2 AS3 AS5



Weight

0.019 kg

Technical data

| Part No. | Port G |
|------------|--------|
| R412006359 | G 1/8 |

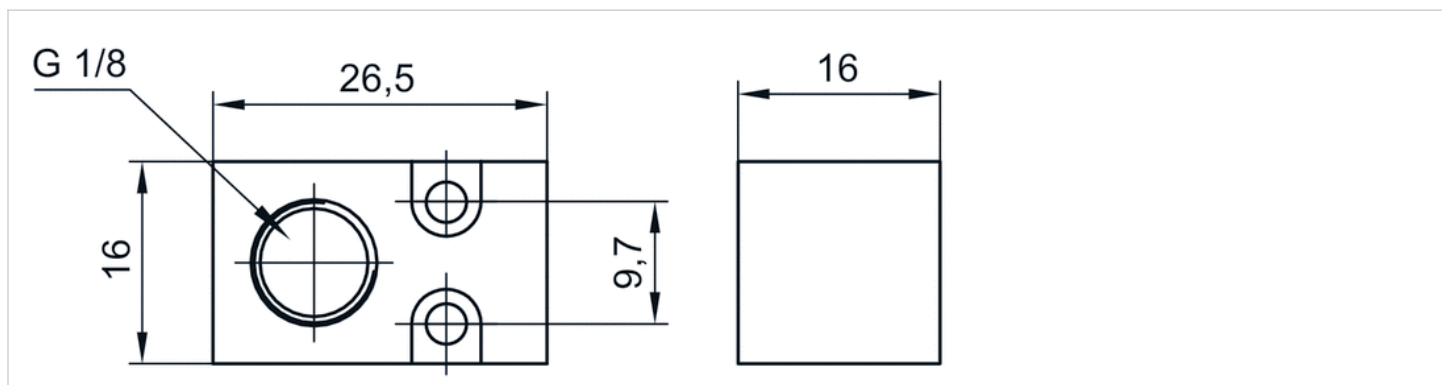
Delivery incl. 2 mounting screws M3x20, Flat gasket

Technical information

| Material | |
|----------|----------|
| Material | Aluminum |

Dimensions

Dimensions in mm



Adapter for external pilot air



Ambient temperature min./max.

50 °C

Weight

0.015 kg

Technical data

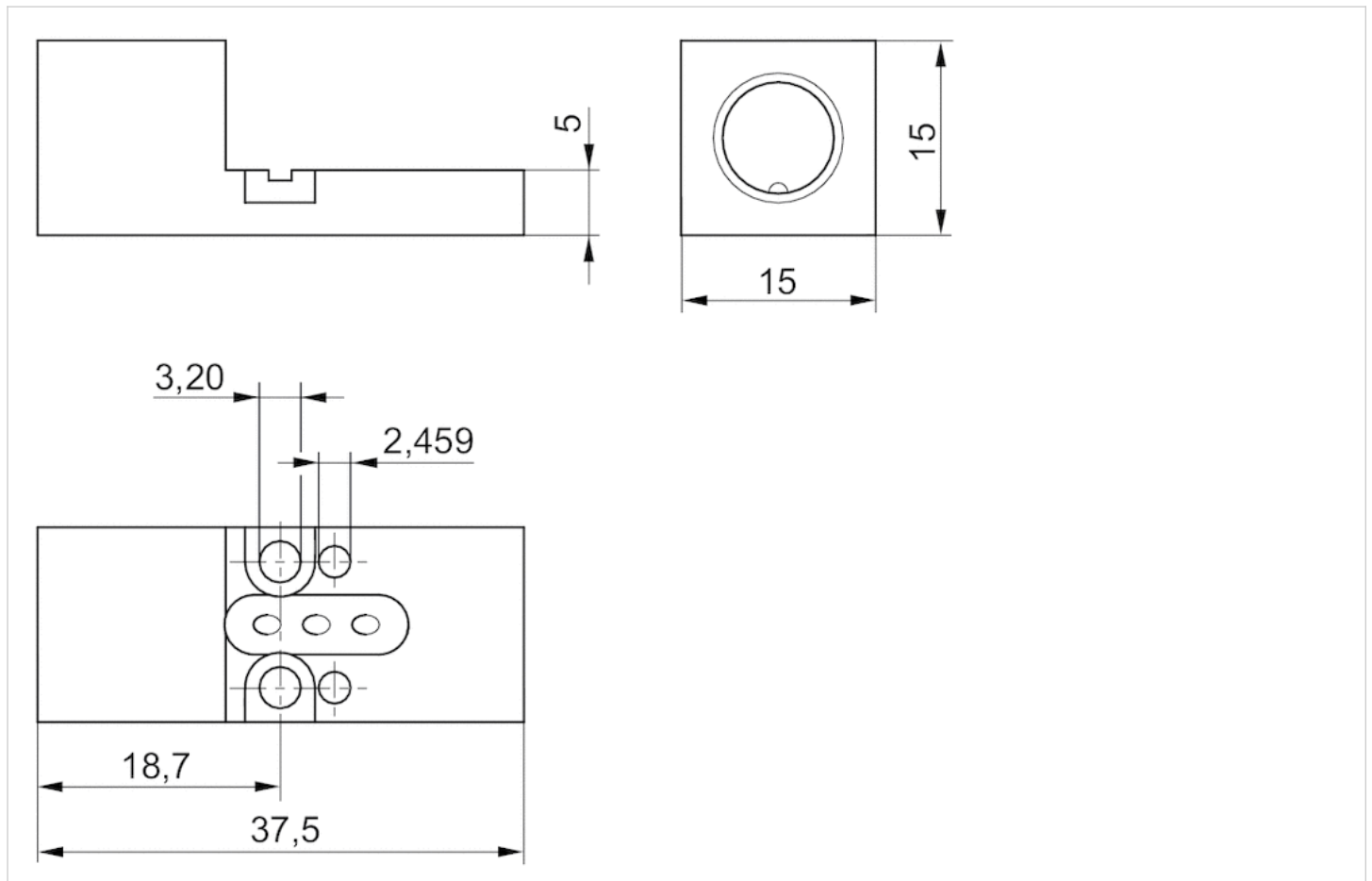
Part No.

R412025904

Delivery incl. 1 seal plate, 1 screw 3x10, 1 screw DIN 84-M3x18

Dimensions

Dimensions in mm



Mounting aid

- Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical push-in fitting, form C.



Technical data

| Part No. |
|------------|
| R412019278 |

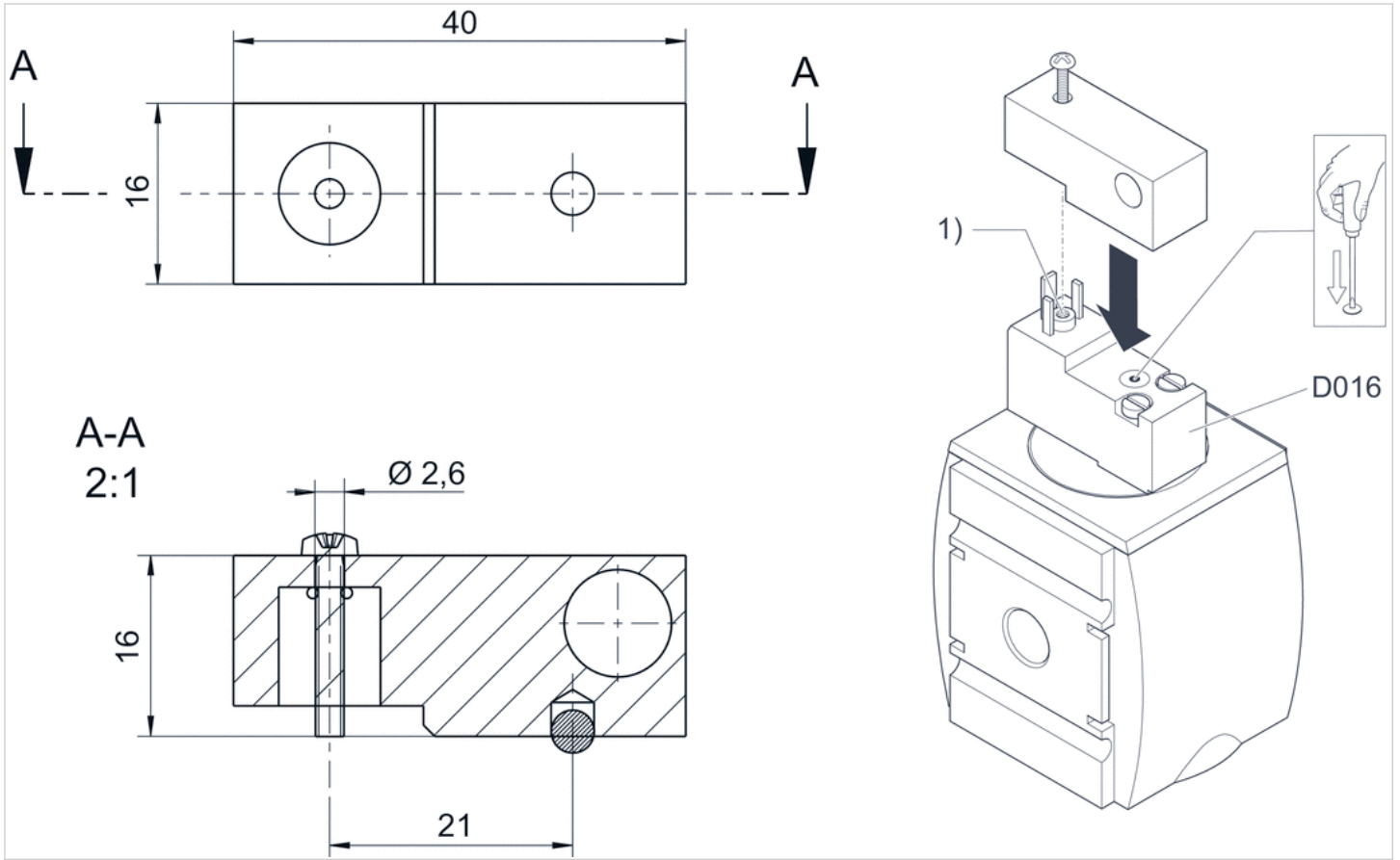
Scope of delivery incl. 1 mounting screw, 1 O-ring

Technical information

| Material | |
|----------|----------|
| Housing | Aluminum |

Dimensions

Dimensions in mm



1) ISO 15217, form C

Mounting aid

- Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical connection M12x1.



Weight

0.023 kg

Technical data

Part No.

R412015193

Technical information

Mounting the assembly aid to the pilot valve using valve plug connector M12x1

Technical information

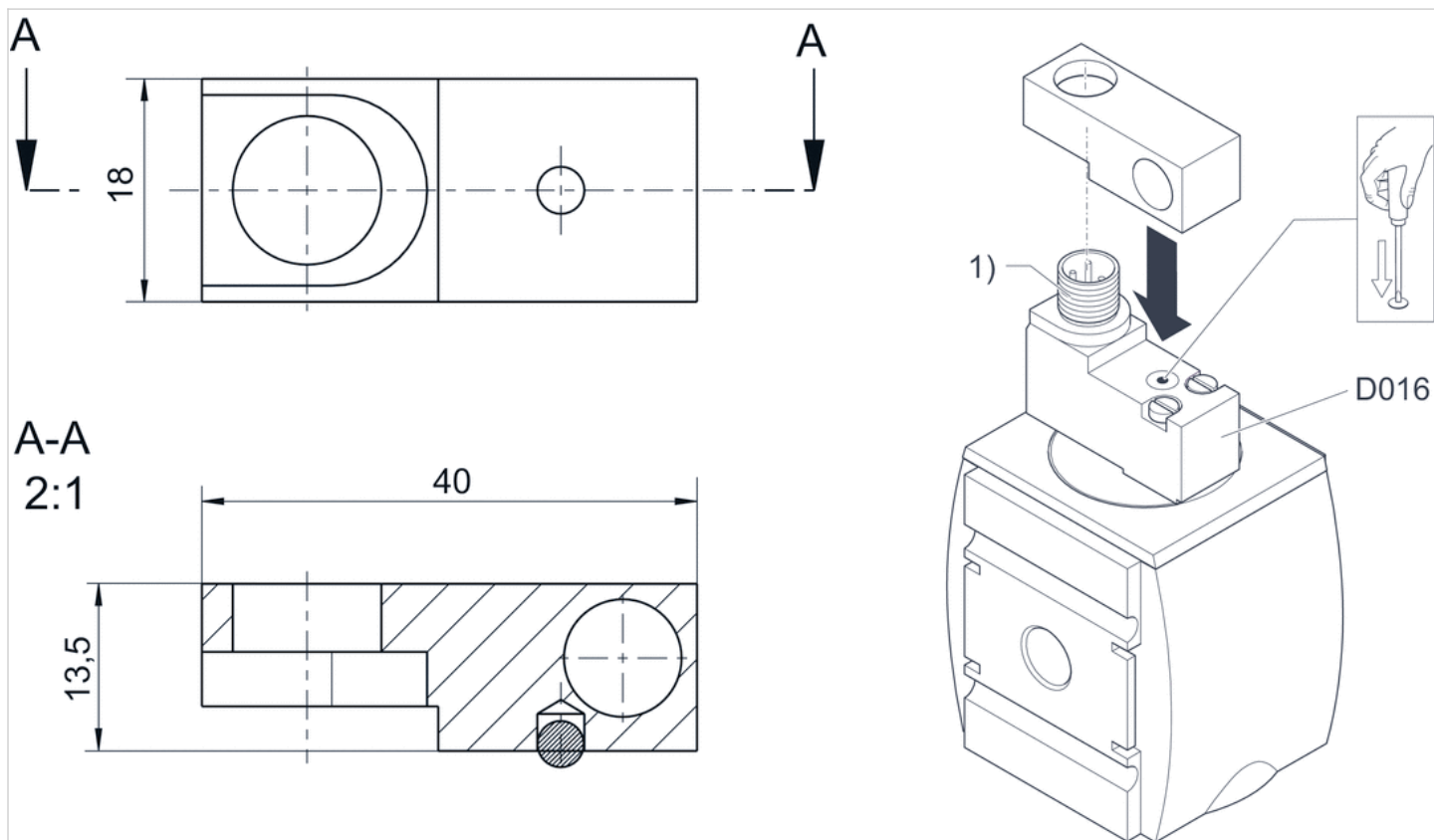
Material

Housing

Aluminum

Dimensions

Dimensions in mm



1) M12x1

mortise lock

- for AS2 AS3 AS5



Technical data

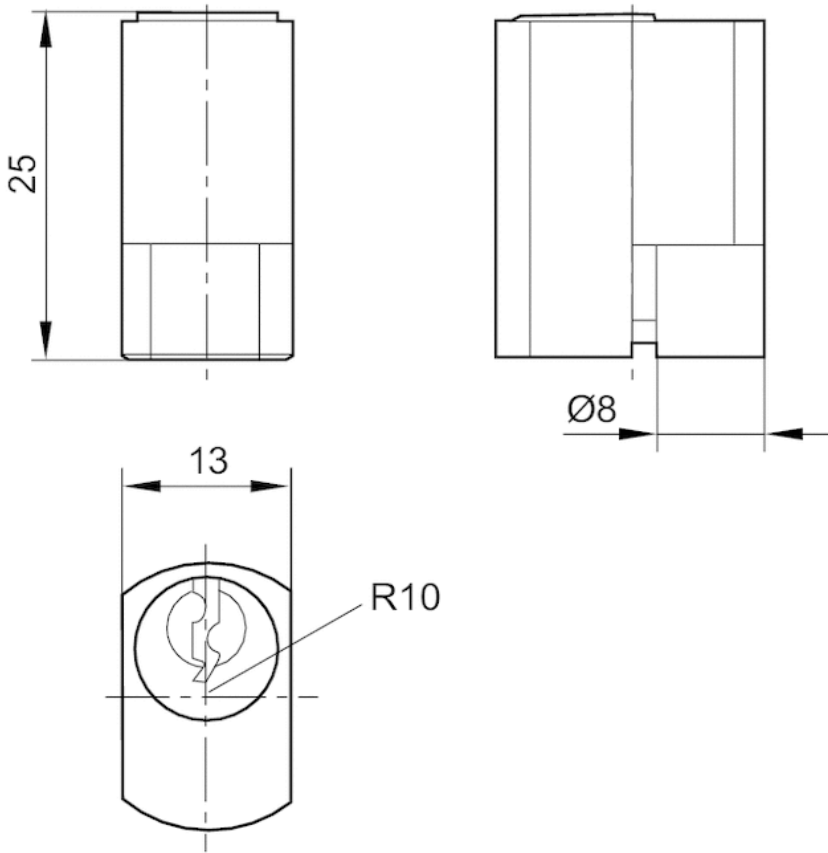
| Part No. | Type |
|------------|----------------------------|
| R412007959 | Standard locking, with key |
| R412006374 | E11 locking, without key |

Technical information

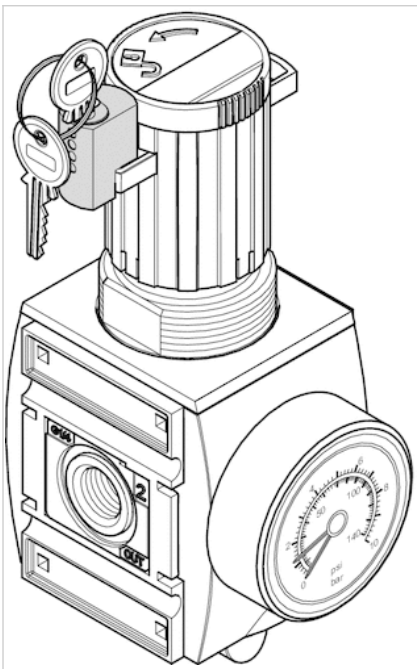
| Material | |
|----------|-------|
| Housing | Steel |

Dimensions

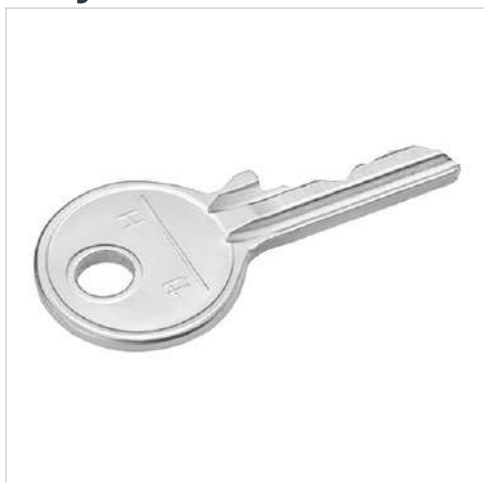
Dimensions in mm



Application example



Key for E11 locking

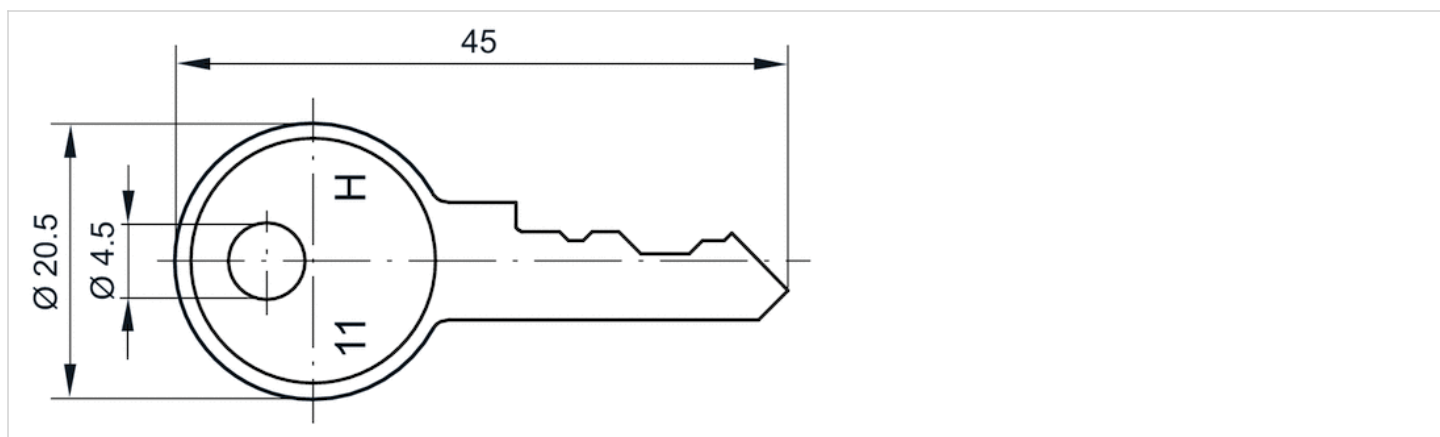


Technical data

| Part No. | Delivery unit |
|------------|---------------|
| R961403407 | 1 piece |

Dimensions

Dimensions in mm






Pressure sensor, Series PE5

- Operating pressure -1 ... 0 -1 ... 1 0 ... 6 0 ... 10 0 ... 12 bar
- electronic
- Output signal analog 0 - 10 V DC, 4 - 20 mA
- Output signal digital 2 x PNP, NPN, Push-pull PNP, NPN, Push-pull PNP, NPN, push-pull, 1x IO-Link
- Electr. connection Plug M12x1 4-pin
- Compressed air connection Internal thread G 1/4



| | |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Type | electronic |
| Certificates | CE declaration of conformity cULus RoHS Conforms with REACH Free of substances that impair surface wetting in the coating process |
| Compressed air connection | Internal thread G 1/4 |
| Ambient temperature min./max. | 0 ... 60 °C |
| Medium temperature min./max. | 0 ... 60 °C |
| Medium | Compressed air (max. 40 µm) |
| Max. oil content of compressed air | 40 mg/m ³ |
| Measurement | Relative pressure |
| Display | LCD display, 4 digits Color setting: green or red |
| Units displayed | bar, psi, kPa, MPa, inHg |
| Switching logic | NO/NC (adjustable) |
| Shock resistance max. | 30 g |
| Vibration resistance | 5 g (10 - 150 Hz) |
| Precision (% of full scale value) | ±1.5% in temperature range of 10 - 30°C ± 2 % including temperature drift |
| Repeatability (% of full scale value) | ± 0,2 % |
| Switching time | 5 ms |
| Switching point | adjustable 0 ... 100% |
| Resetting point | adjustable 0 ... 100% |
| Hysteresis | adjustable |
| Delayed hysteresis | adjustable |
| Window function | adjustable |
| DC operating voltage min./max. | 17 ... 30 V DC |
| Analog output | 0 - 10 V DC, 4 - 20 mA |
| Quiescent current consumption | 40 mA |
| Analog output linearity | ± 0.5% of the final value |
| Maximum load (analog current output) | 600 Ω |
| Short circuit resistance | Max. 600 ohms (current output) Min. 3K ohms (voltage output) |
| Mounting types | Directly on hat rail and wall mounting For panel installation using mounting kit via double nipple |
| Protection class | IP65, IP67 with connections assembled |
| Electr. connection | Plug M12x1 4-pin |
| Weight | 0.04 kg |

Technical data

| Part No. |  | Operating pressure range | Protection against overpressure |
|------------|-----------------------------------------------------------------------------------|--------------------------|---------------------------------|
| | | min./max. | |
| R412010761 |  | -1 ... 0 bar | 5 bar |
| R412010769 |  | -1 ... 0 bar | 5 bar |
| R412010775 |  | -1 ... 0 bar | 5 bar |
| R412010763 |  | -1 ... 1 bar | 5 bar |
| R412010771 |  | 0 ... 6 bar | 15 bar |
| R412010765 |  | 0 ... 6 bar | 15 bar |
| R412010777 |  | 0 ... 6 bar | 15 bar |
| R412010773 |  | 0 ... 10 bar | 15 bar |
| R412010767 |  | 0 ... 10 bar | 15 bar |
| R412010779 |  | 0 ... 10 bar | 15 bar |
| R412010782 |  | 0 ... 12 bar | 16 bar |
| R412010806 |  | 0 ... 12 bar | 16 bar |

| Part No. | Output signal | Output signal | Fig. | |
|------------|-------------------------|---------------------------------|--------|----|
| | Analog | digital | | |
| R412010761 | - | 2 x PNP, NPN, Push-pull | Fig. 1 | - |
| R412010769 | 0 - 10 V DC-4 ... 20 mA | PNP, NPN, Push-pull | Fig. 1 | - |
| R412010775 | - | PNP, NPN, push-pull, 1x IO-Link | Fig. 1 | 1) |
| R412010763 | - | 2 x PNP, NPN, Push-pull | Fig. 1 | - |
| R412010771 | 0 - 10 V DC-4 ... 20 mA | PNP, NPN, Push-pull | Fig. 1 | - |
| R412010765 | - | 2 x PNP, NPN, Push-pull | Fig. 1 | - |
| R412010777 | - | PNP, NPN, push-pull, 1x IO-Link | Fig. 1 | 1) |
| R412010773 | 0 - 10 V DC-4 ... 20 mA | PNP, NPN, Push-pull | Fig. 1 | - |
| R412010767 | - | 2 x PNP, NPN, Push-pull | Fig. 1 | - |
| R412010779 | - | PNP, NPN, push-pull, 1x IO-Link | Fig. 1 | 1) |
| R412010782 | - | 2 x PNP, NPN, Push-pull | Fig. 1 | - |
| R412010806 | - | PNP, NPN, push-pull, 1x IO-Link | Fig. 1 | 1) |

1) The IO-Link device description (IODD) for the PE5 pressure sensor is available for download in the Media Centre.

Technical information

Alternative pressure connection (G1/4) on the rear side (closed with plug)

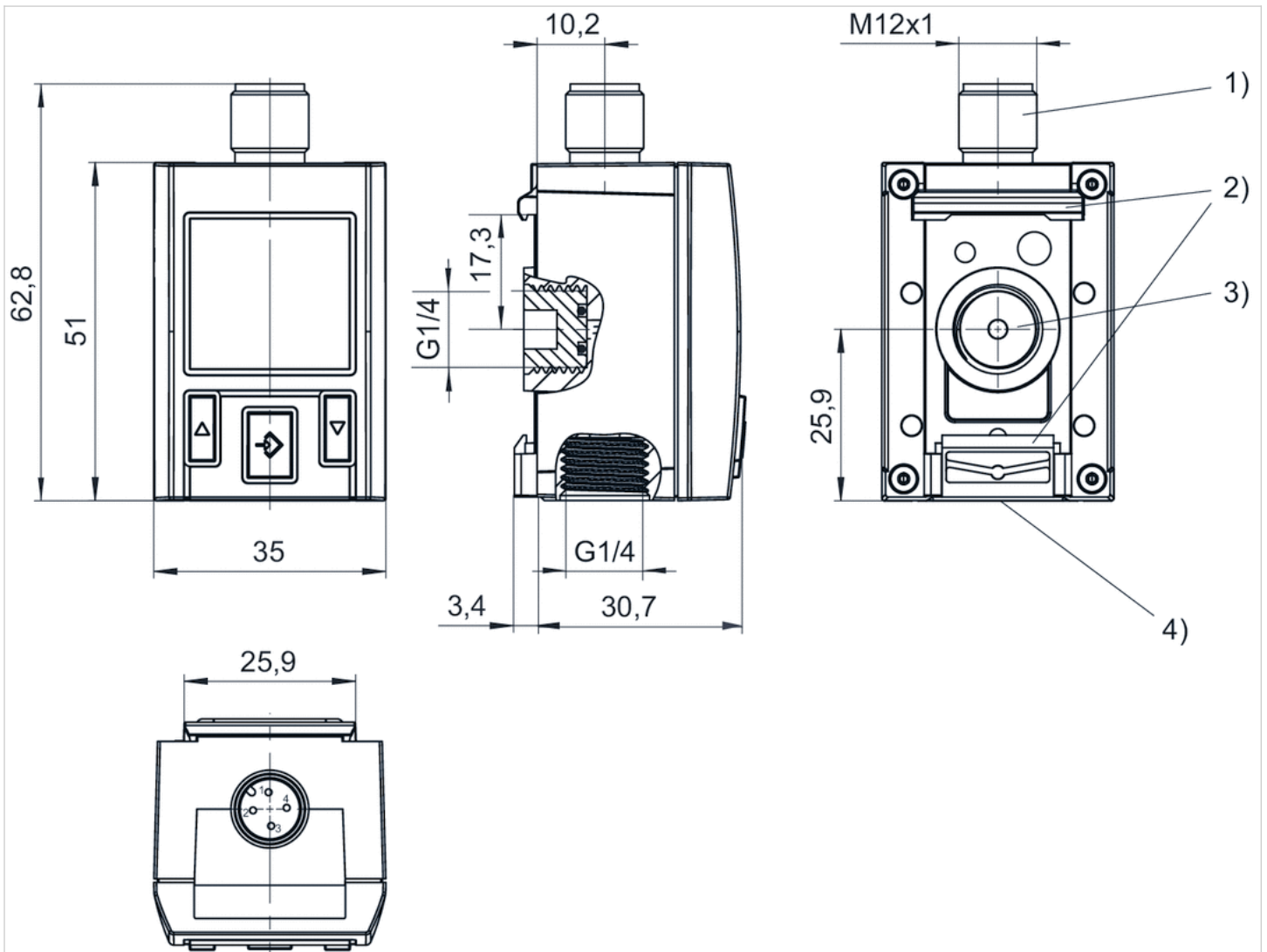
Display color selectable, red or green

Technical information

| Material | |
|--------------------|--------------------------------|
| Housing | Polycarbonate |
| Seals | Acrylonitrile butadiene rubber |
| Blanking plug | Polyoxymethylene |
| Electr. connection | Aluminum, black anodized |

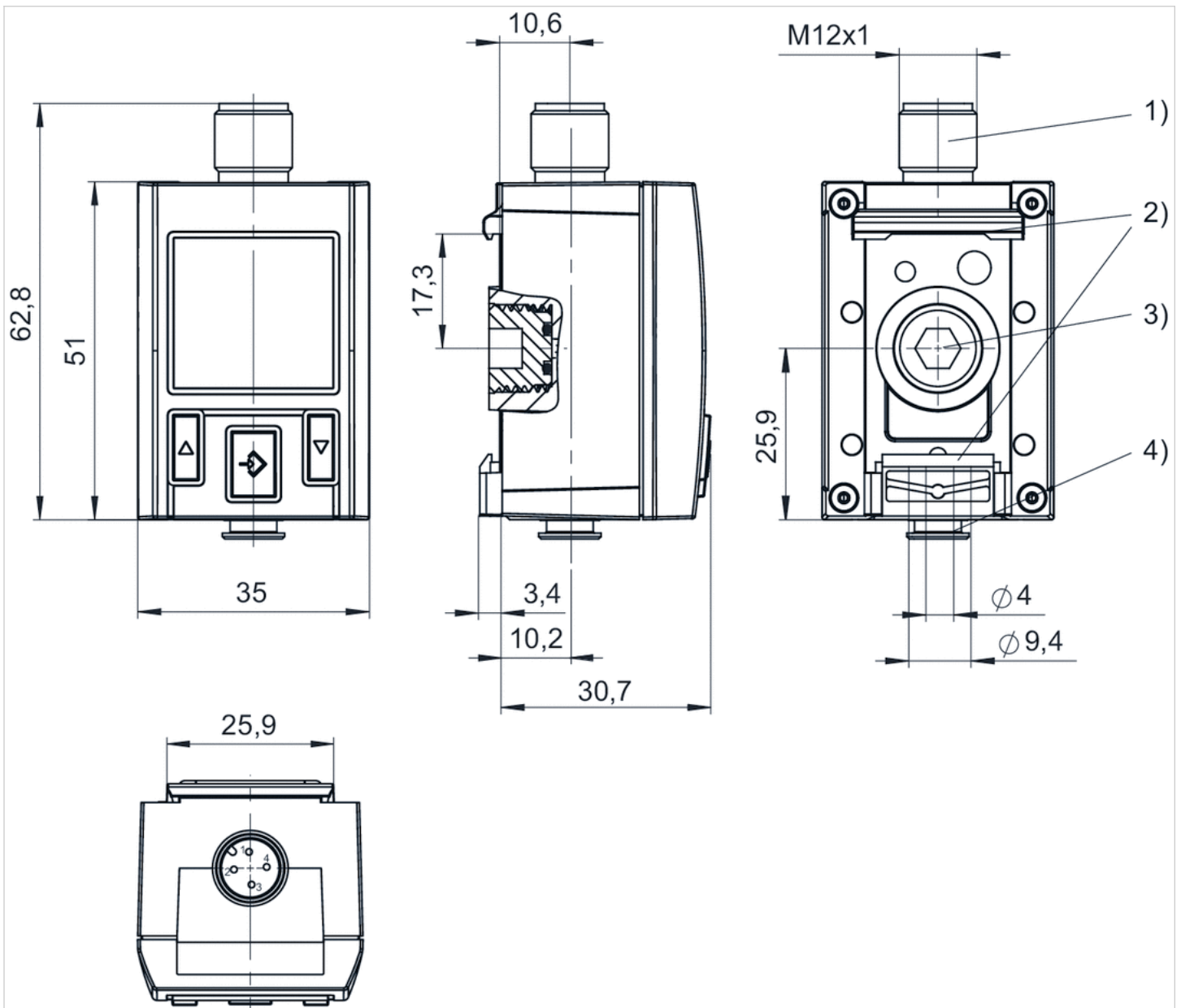
Dimensions

Fig. 1



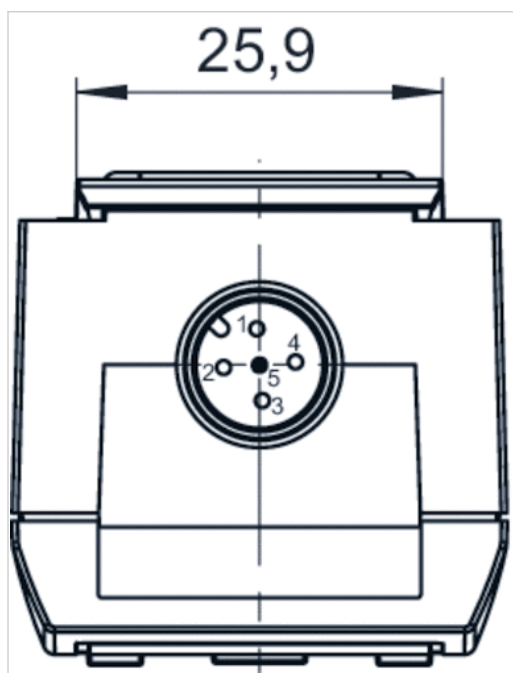
- 1) M12x1 electrical connection
- 2) Mounting for hat rail and wall mounting
- 3) Alternative pressure connection (G1/4) closed with plug
- 4) Pressure connection G1/4

Fig. 2

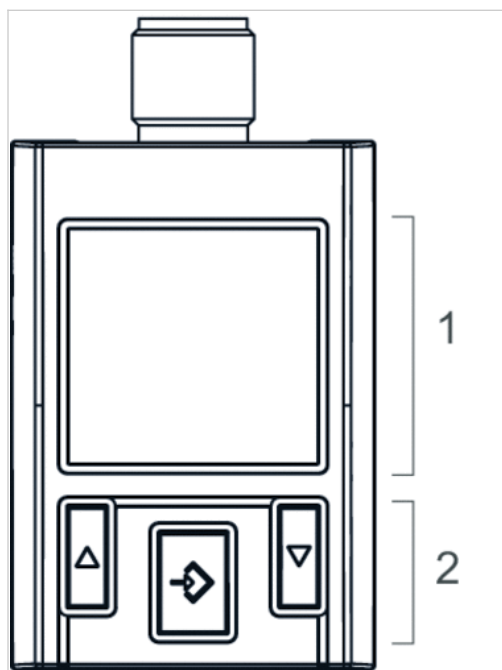


- 1) M12x1 electrical connection
- 2) Mounting for hat rail and wall mounting
- 3) Alternative pressure connection (G1/4) closed with plug
- 4) Pressure connection, tubing ϕ 4 mm

Fig. 3, Electr. connection for leak test



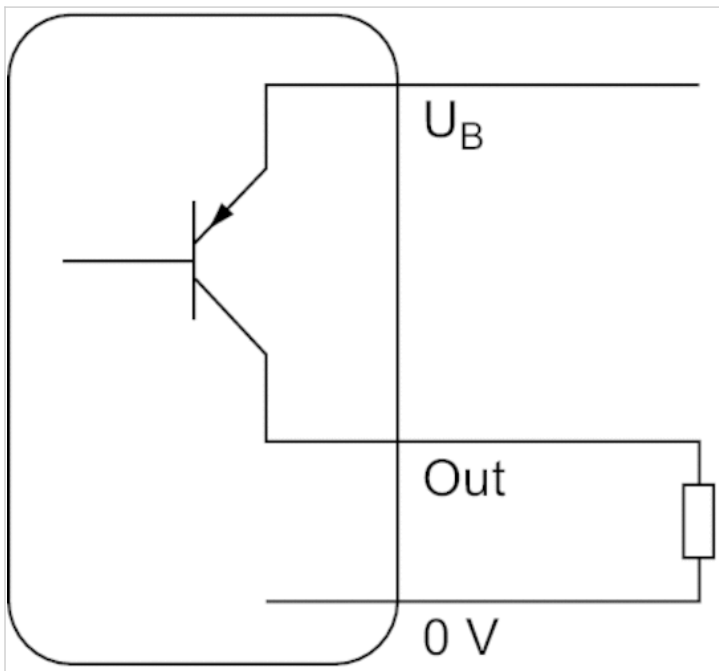
Display and operation area



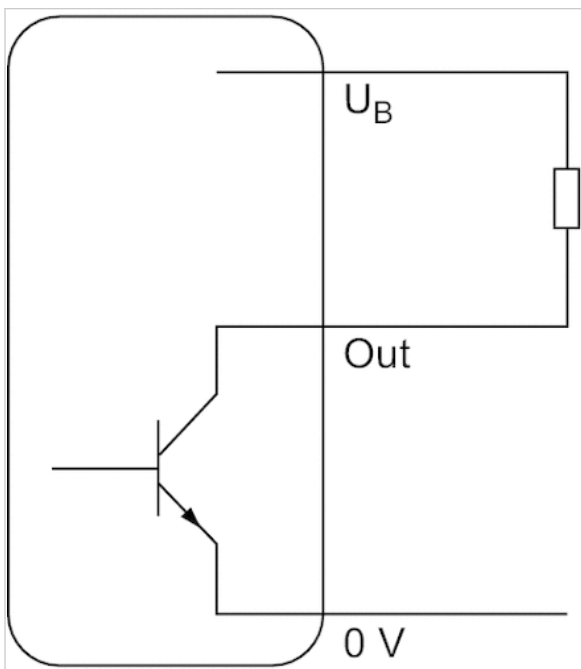
- 1) LCD display
- 2) Control panel with 3 buttons

Diagrams

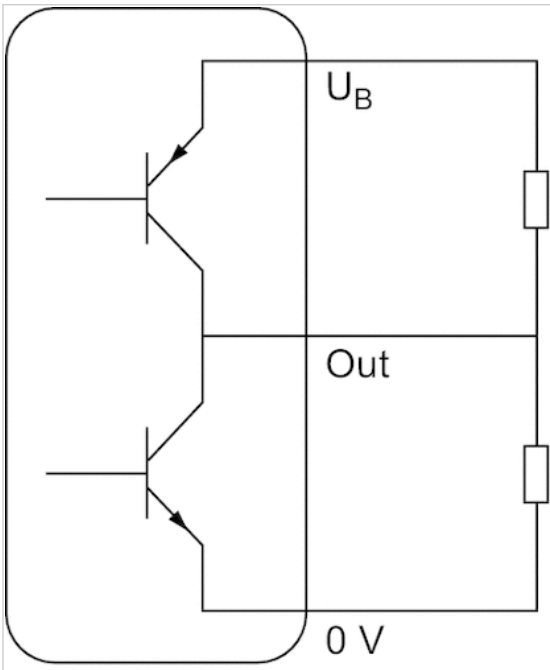
Operating mode, PNP



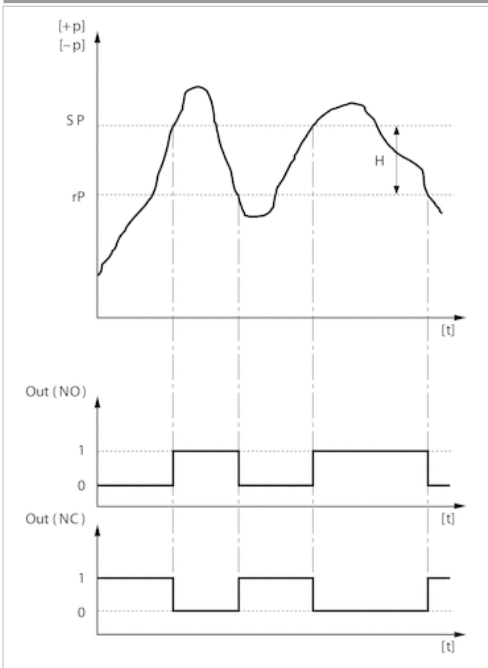
Operating mode, NPN



Operating mode, Push-pull

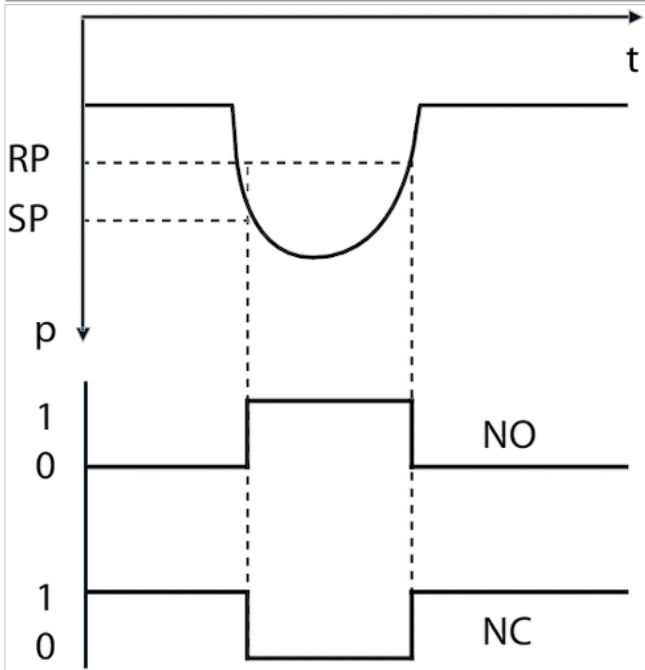


Hysteresis function: switching and resetting behavior dependent on pressure p and time t, in case of overpressure

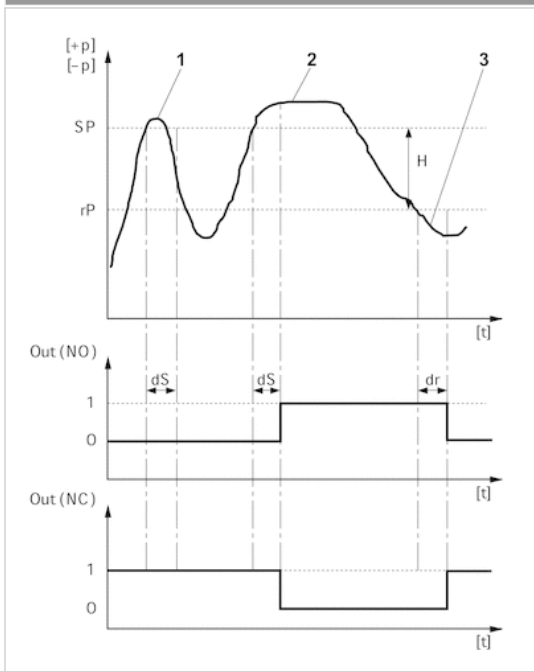


- H: Hysteresis
- SP = switching point
- RP = resetting point
- Out (NC): switch output, break contact
- Out (NO): switch output, make contact

Hysteresis function: switching and resetting behavior dependent on pressure p and time t , in case of underpressure



Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



H: Hysteresis

SP = switching point

RP = resetting point

Out (NC): switch output, break contact

Out (NO): switch output, make contact

dS: switching delay

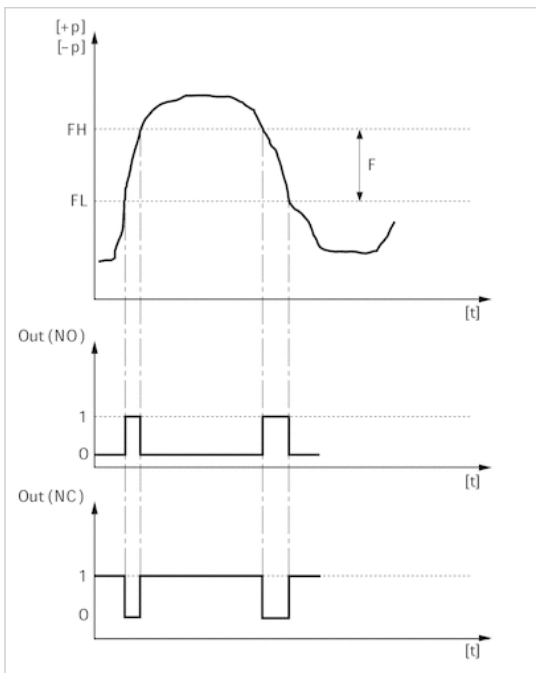
dR = reset delay

1) period of pressure over the switching point dS : pressure sensor does not switch

2) Period of pressure over the switching point $> dS$: pressure sensor switches

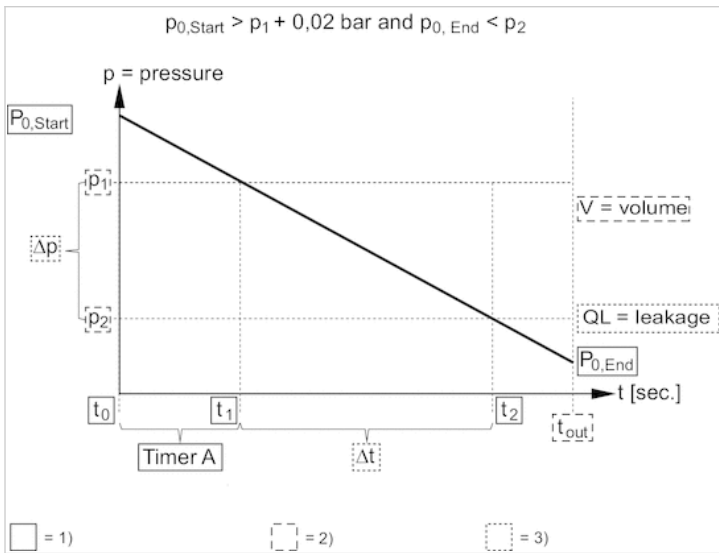
3) Period of pressure under the resetting point $> dR$: pressure sensor switches

Window function: switching and resetting behavior depending on pressure p and time t



FH: pressure band, upper value
 FL: pressure band, lower value
 Out (NC): switch output, break contact
 Out (NO): switch output, make contact

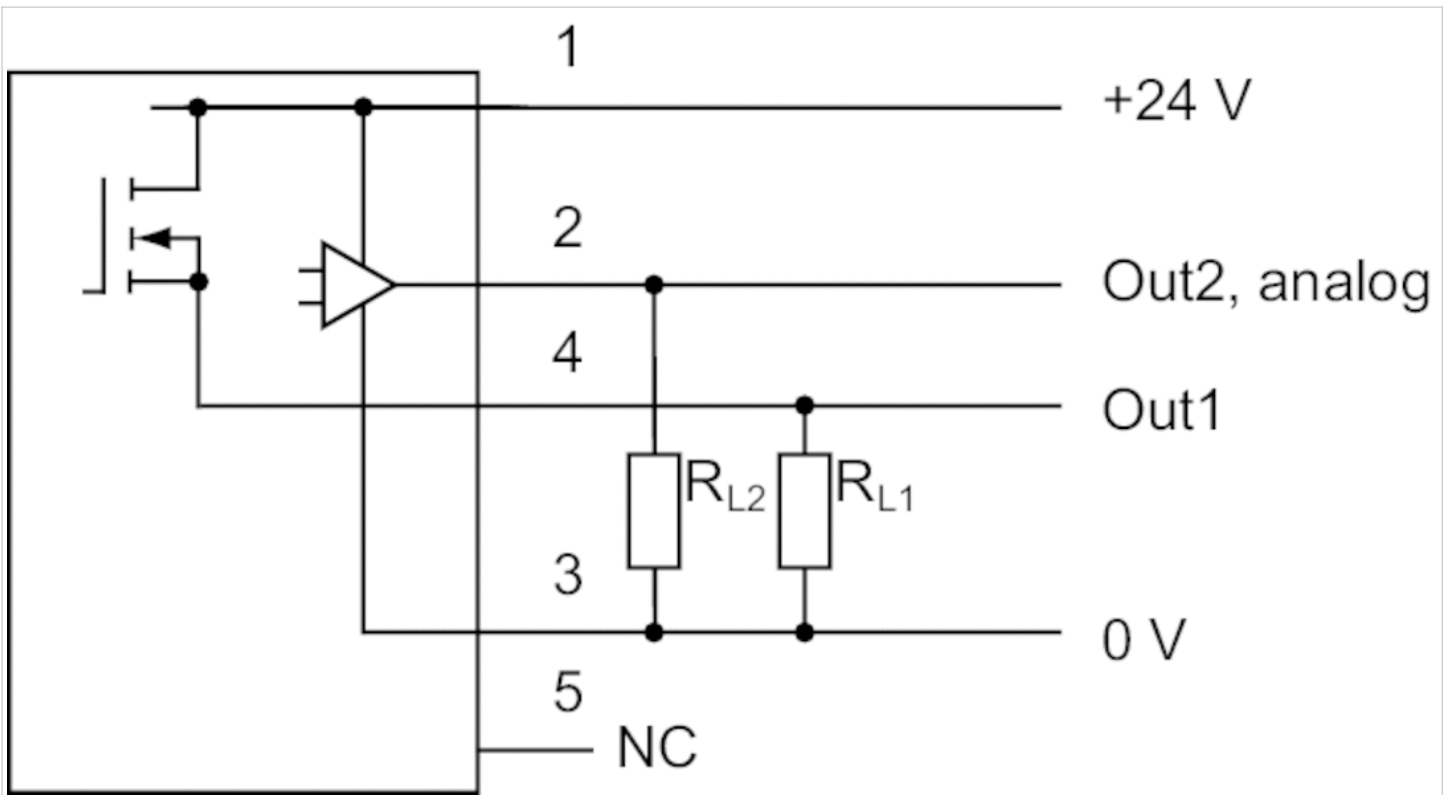
Leakage characteristic



- 1) Internally stored parameter
- 2) Adjustable parameter
- 3) Output value

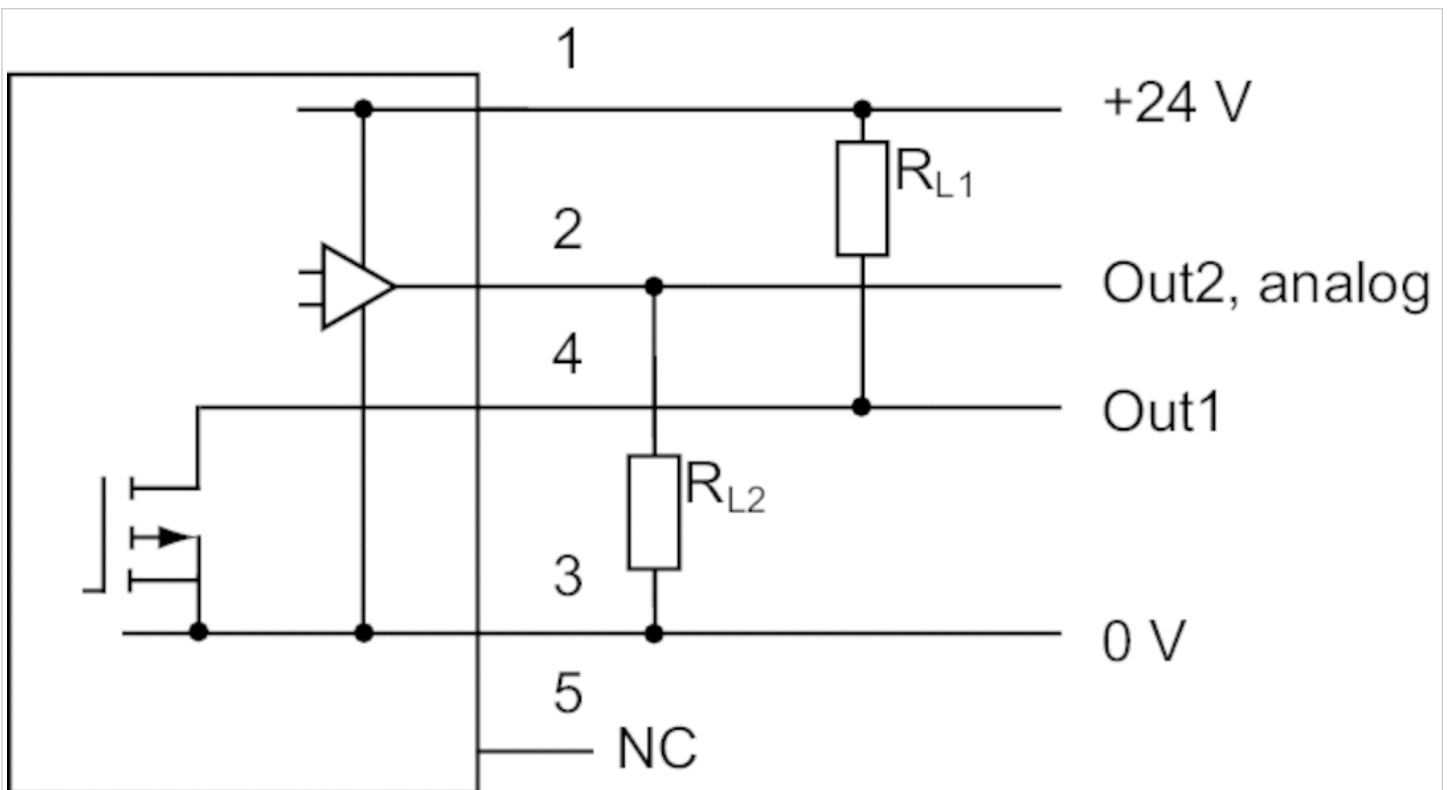
Circuit diagram

Block diagram, 1x PNP and 1x analog



RL = storable position

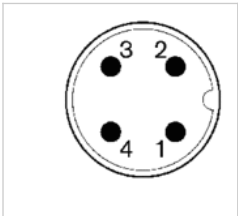
Block diagram, 1x NPN and 1x analog



RL = storable position

Pin assignments

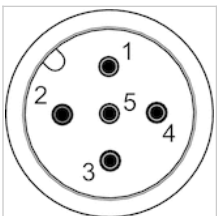
Pin assignments, M12x1, 4-pin



| | |
|------------|------------------------------------------------------------------|
| Pin | 1 |
| Allocation | operational voltage + UB |
| | 2 |
| | 3 |
| | switch output Out2, analog: A or V, digital: PNP, NPN, push-pull |
| | 0 V |
| | 4 |
| | switch output Out1, digital: PNP, NPN, push-pull |

Pin assignments

Pin assignments, M12x1, 5-pin



| | | | |
|------------|----------------|------------------------------------------------------------------------|-----|
| Pin | 1 | 2 | 3 |
| Allocation | Supply Voltage | Switch output PNP/NPN/push-pull, switchable | 0 V |
| | | 4 | |
| | | Switch output PNP/NPN/push-pull/leakage mode, digital switch input PNP | |
| | | 5 | |
| | | Analog output (0 to 10 V DC, 4 to 20 mA) | |











Pressure sensor, Series PE2

- Operating pressure -1 ... 1 0 ... 16 bar
- electronic
- Output signal analog 1 x PNP, 1 x analog 4-20 mA
- Electr. connection Plug M12x1 5-pin
- Compressed air connection Internal thread G 1/4 Flange with O-ring Ø 5x1,5



| | |
|--------------------------------------|-------------------------------------------------------------------------------|
| Type | electronic |
| Function | 1 x PNP, 2 x PNP 1x PNP and 1x analog |
| Mounting orientation | Any |
| Certificates | CE declaration of conformity EMV |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -10 ... 75 °C |
| Medium temperature min./max. | -10 ... 75 °C |
| Medium | Compressed air Neutral gases |
| Measurement | Relative pressure |
| Display | OLED |
| Units displayed | bar, mbar, psi, kPa, MPa, % |
| Switching logic | Hysteresis function NO/NC (programmable) Window function NO/NC (programmable) |
| Operating pressure display | 2 LED |
| Shock resistance max. | 30 g |
| Vibration resistance | 5 g (10 - 150 Hz) |
| Precision (% of full scale value) | ± 1 % including temperature drift |
| Switching time | 10 ms at loads 100 kΩ > 10 ms at loads > 100 kΩ |
| Switching point | Adjustable ≥ 0.5% ... 100% FS |
| Resetting point | Adjustable 0% FS to SP -0.5% FS (or +0.5% FS when SP 0) |
| Hysteresis | adjustable |
| Switching/reset delay | adjustable |
| DC operating voltage min./max. | 15 ... 32 V DC |
| Analog output | 1 x PNP, 1 x analog 4-20 mA |
| Quiescent current consumption | 50 mA |
| Maximum load (analog current output) | 600 Ω |
| Short circuit resistance | short circuit resistant |
| Mounting types | via through holes |
| Protection class | IP65 |
| Electr. connection | Plug M12x1 5-pin |
| Weight | 0.3 kg |

Technical data

| Part No. | | Type | Operating pressure range |
|------------|-----------------------------------------------------------------------------------|--------------------------|--------------------------|
| | | | min./max. |
| R412010848 |  | PE2-P1-G014-V10-010-M012 | -1 ... 1 bar |
| R412010849 |  | PE2-P1-F001-V10-010-M012 | -1 ... 1 bar |
| R412010853 |  | PE2-P2-G014-V10-010-M012 | -1 ... 1 bar |
| R412010856 |  | PE2-PA-G014-V10-010-M012 | -1 ... 1 bar |
| R412010850 |  | PE2-P1-G014-000-160-M012 | 0 ... 16 bar |
| R412010851 |  | PE2-P1-F001-000-160-M012 | 0 ... 16 bar |
| R412010854 |  | PE2-P2-G014-000-160-M012 | 0 ... 16 bar |
| R412010855 |  | PE2-P2-F001-000-160-M012 | 0 ... 16 bar |
| R412010857 |  | PE2-PA-G014-000-160-M012 | 0 ... 16 bar |
| R412010858 |  | PE2-PA-F001-000-160-M012 | 0 ... 16 bar |

| Part No. | Protection against overpressure | Output signal | Output signal | Compressed air connection |
|------------|---------------------------------|---------------|---------------|-----------------------------|
| | | Analog | digital | |
| R412010848 | 10 bar | - | 1 x PNP | Internal thread, G 1/4 |
| R412010849 | 10 bar | - | 1 x PNP | Flange with O-ring, Ø 5x1,5 |
| R412010853 | 10 bar | - | 2 x PNP | Internal thread, G 1/4 |
| R412010856 | 10 bar | 4 ... 20 mA | 1 x PNP | Internal thread, G 1/4 |
| R412010850 | 40 bar | - | 1 x PNP | Internal thread, G 1/4 |
| R412010851 | 40 bar | - | 1 x PNP | Flange with O-ring, Ø 5x1,5 |
| R412010854 | 40 bar | - | 2 x PNP | Internal thread, G 1/4 |
| R412010855 | 40 bar | - | 2 x PNP | Flange with O-ring, Ø 5x1,5 |
| R412010857 | 40 bar | 4 ... 20 mA | 1 x PNP | Internal thread, G 1/4 |
| R412010858 | 40 bar | 4 ... 20 mA | 1 x PNP | Flange with O-ring, Ø 5x1,5 |

| Part No. | Fig. |
|------------|--------|
| R412010848 | Fig. 1 |
| R412010849 | Fig. 2 |
| R412010853 | Fig. 1 |
| R412010856 | Fig. 1 |
| R412010850 | Fig. 1 |
| R412010851 | Fig. 2 |
| R412010854 | Fig. 1 |
| R412010855 | Fig. 2 |
| R412010857 | Fig. 1 |
| R412010858 | Fig. 2 |

Technical information

Menu navigation is based on the VDMA specification with an additional plain text menu.

Technical information

| Material | |
|--------------------|--------------------------------------------|
| Housing | Aluminum, Vibration-ground |
| Seals | Fluorocaoutchouc |
| Electr. connection | Aluminum with polymer insert |
| flange connection | Nitrile butadiene rubber, Fluorocaoutchouc |

Dimensions

Fig. 1

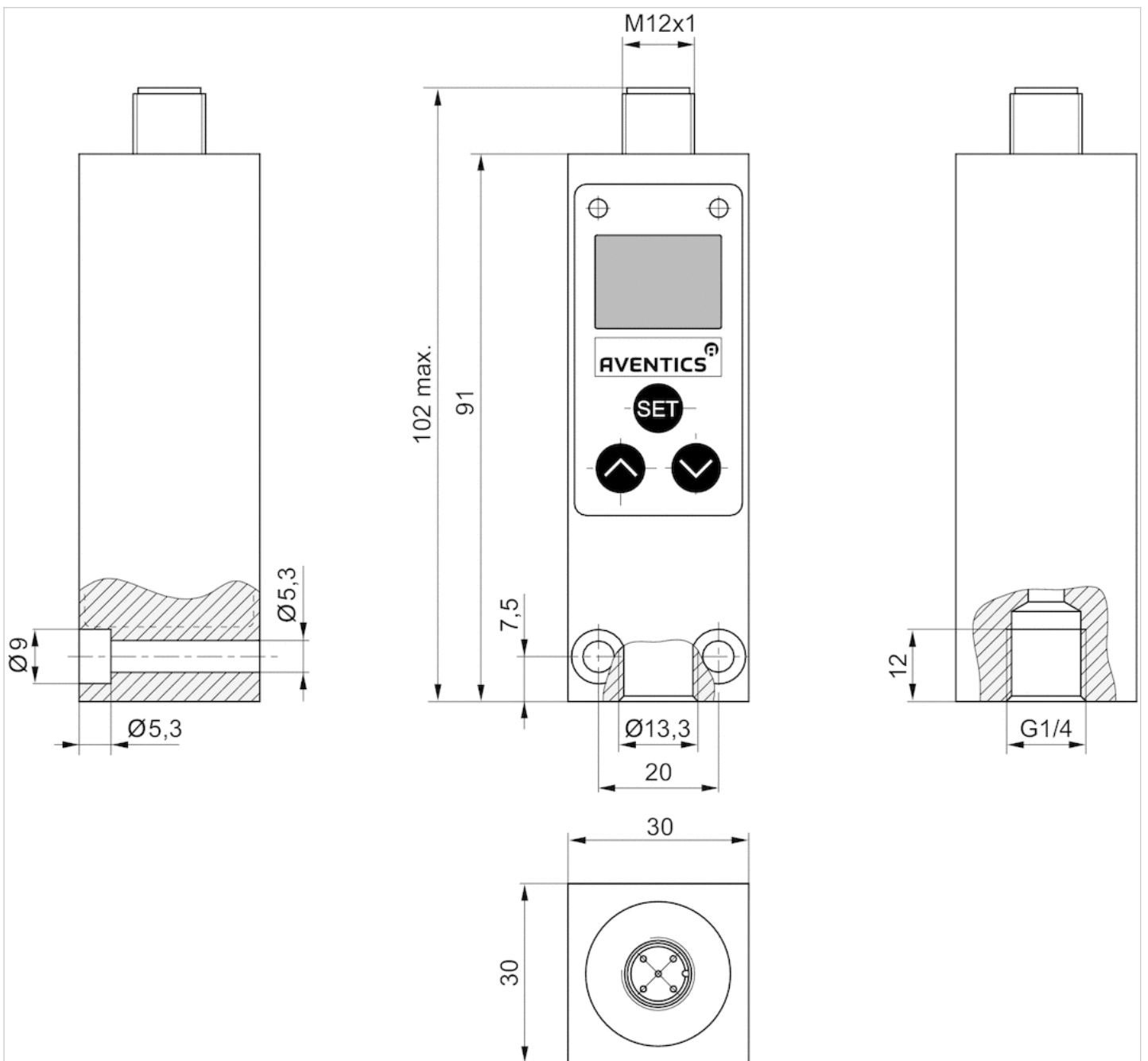
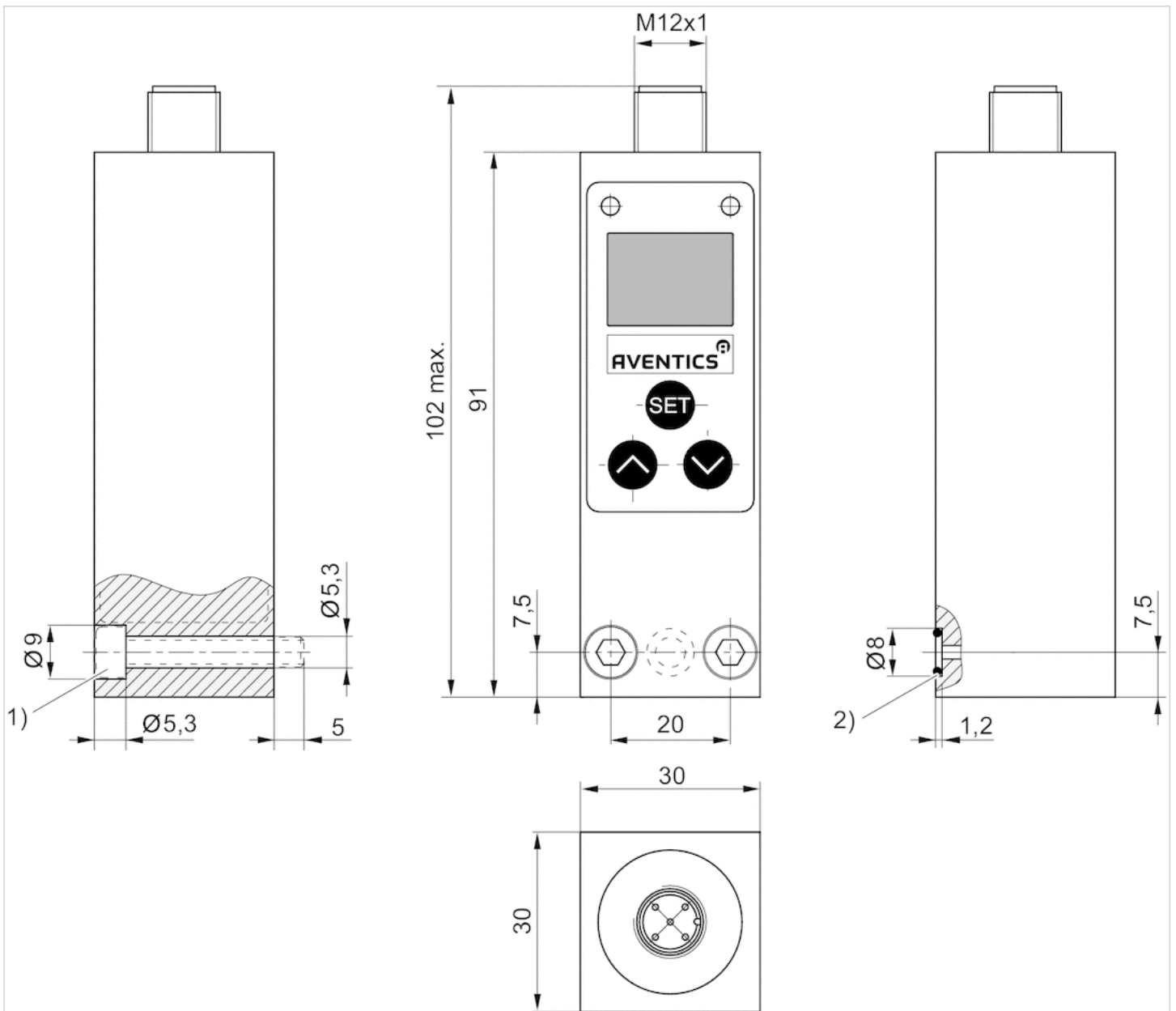
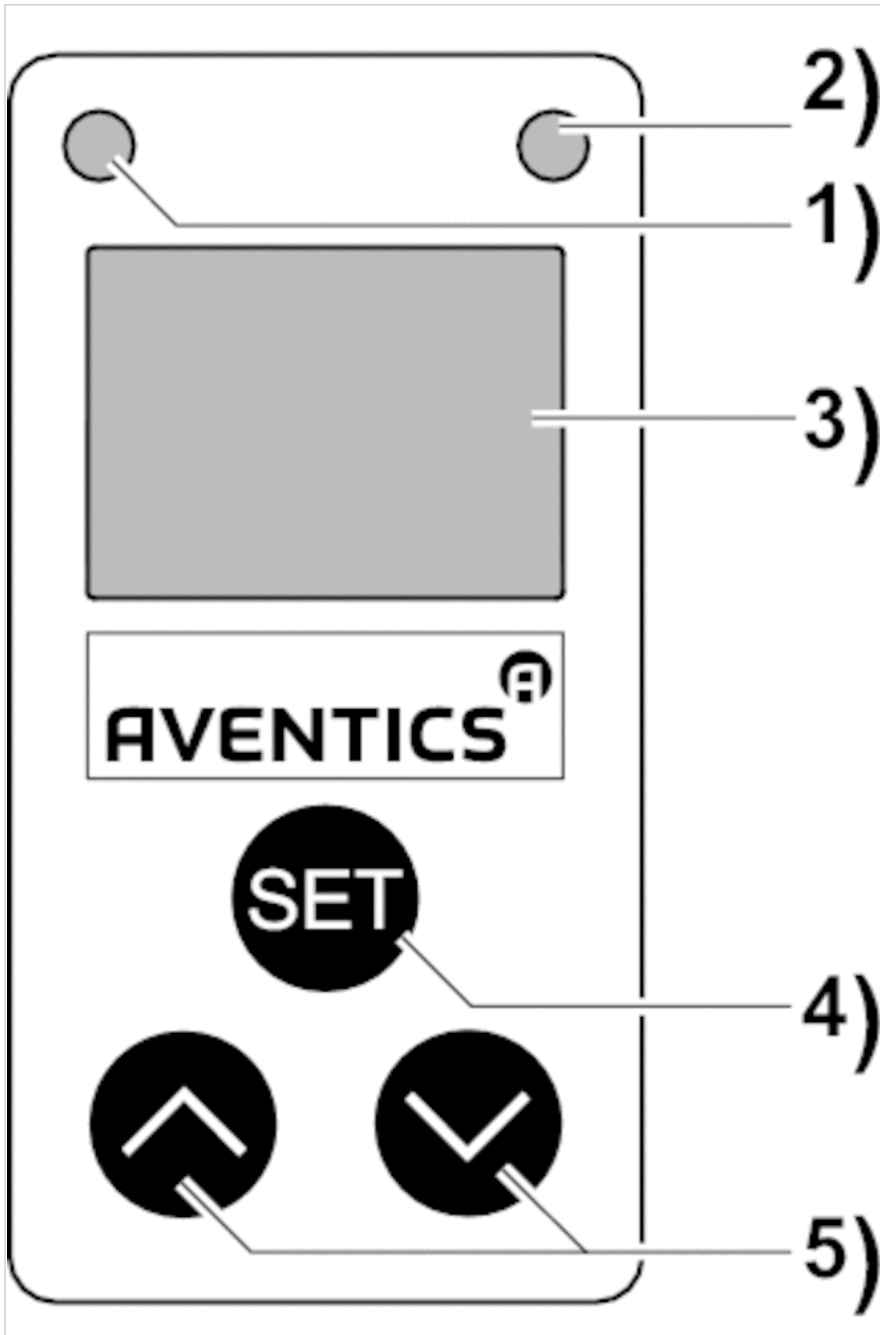


Fig. 2



- 1) cylinder screw M5x35 (included in scope of delivery)
- 2) O-ring $\varnothing 5 \times 1,5$ (included)

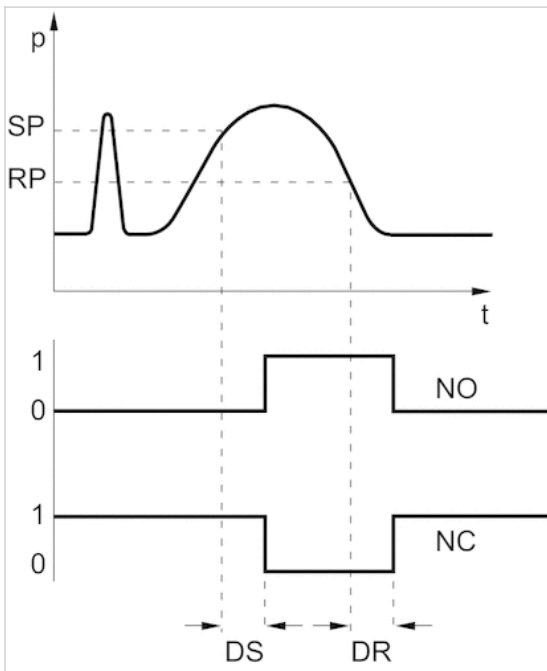
Display and operation area



- 1) LED for switch output 1
- 2) LED for switch output 2
- 3) Display (pressure, operating modes, navigation)
- 4) Confirm menu/menu item selection
- 5) Button for menu item/parameter change selection

Diagrams

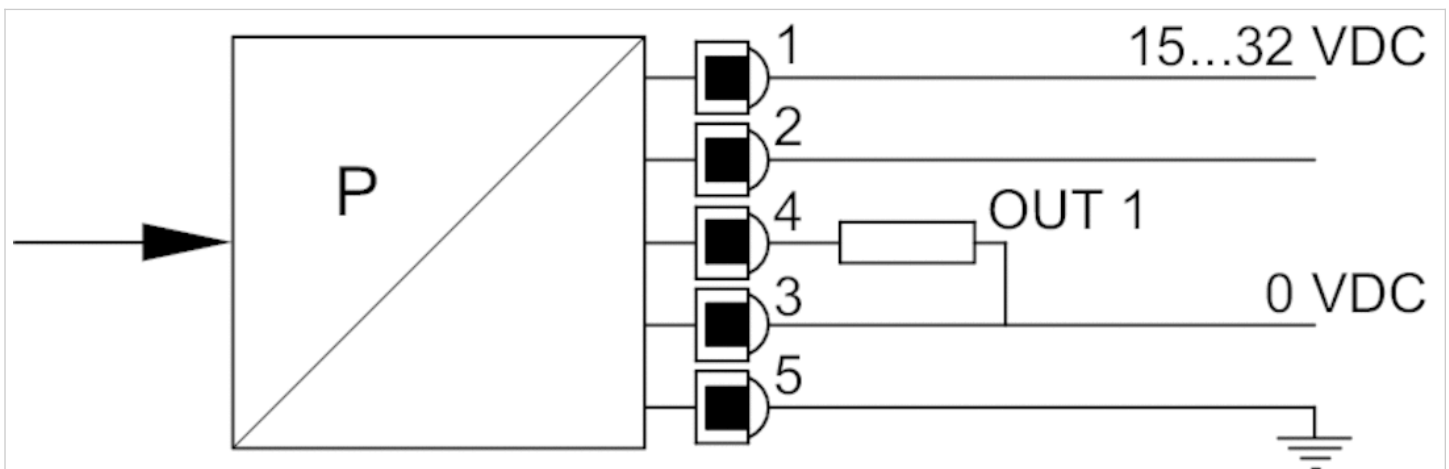
Pressure-voltage characteristics curve



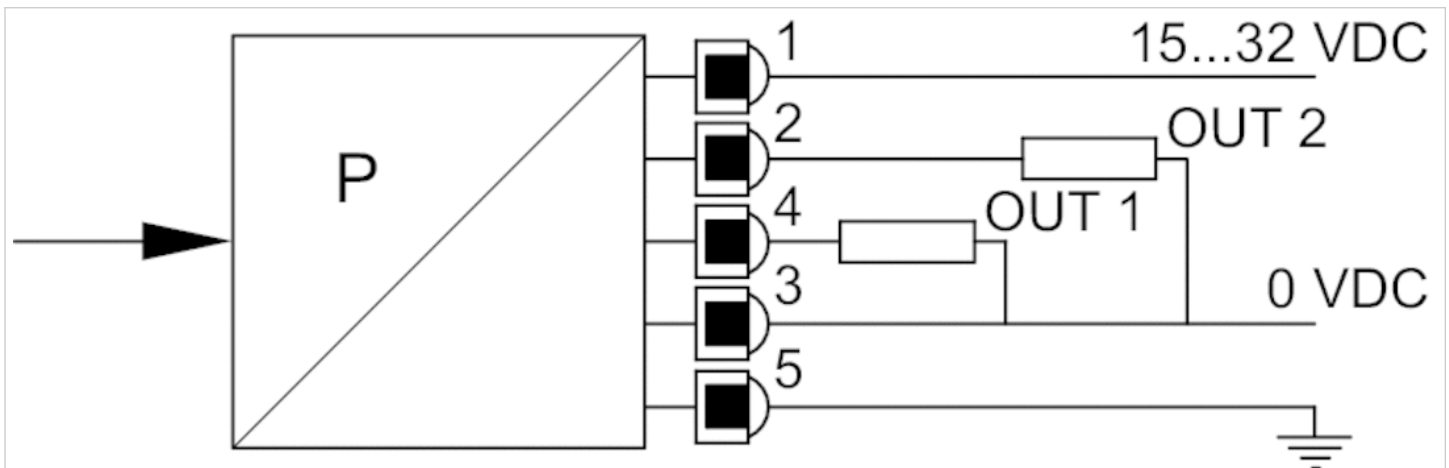
- SP = switching point
- RP = resetting point
- NO = Switching function open
- NC = Switching function closed without current
- DS = Delay for the switching point
- DR = Delay for the resetting point

Circuit diagram

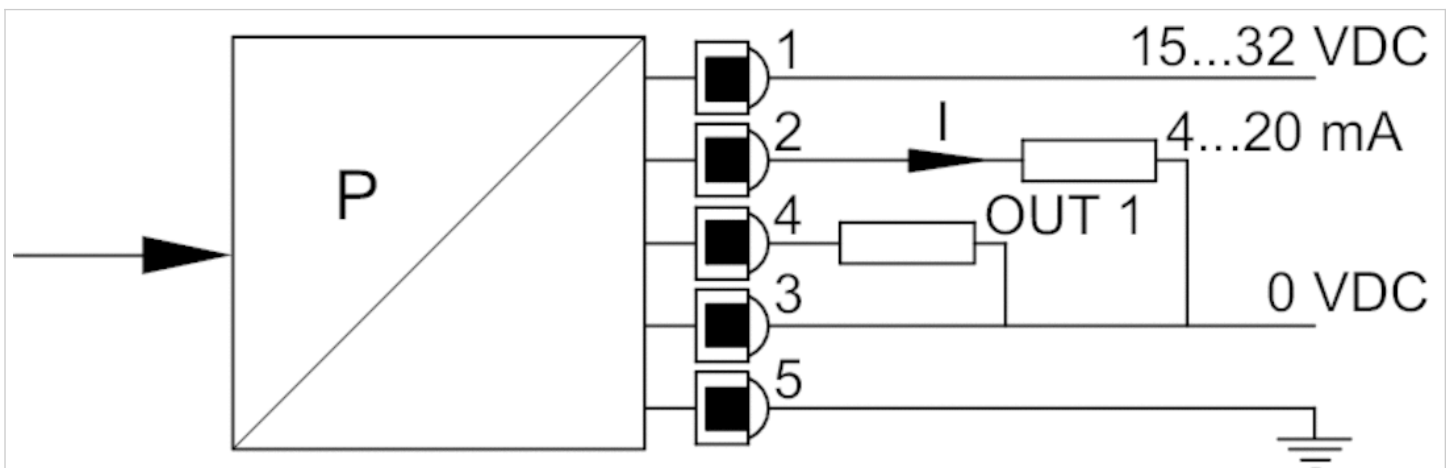
Block diagram, 1 x PNP



Block diagram, 2 x PNP

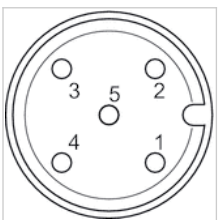


Block diagram, 1x PNP and 1x analog



Pin assignments

Pin assignments



pin 1: signal + UB, color: brown pin 2: signal: out 2 (PNP)/analog 4 - 20 mA, color: white pin 3: signal: 0 volt, color: blue pin 4: signal: out 1 (PNP), color: black pin 5: signal: FE, color: gray








Pressure Switches, Series PM1

- Operating pressure -0.9 ... 0 -0.9 ... 3 0.2 ... 16 bar
- Mechanical
- Spring-loaded bellows, adjustable
- Electr. connection Plug EN 175301-803, form A
- Compressed air connection Internal thread G 1/4 Flange with O-ring Ø 5x1,5



| | |
|---------------------------------------|------------------------------------|
| Type | Mechanical |
| Function | change-over contact (mechanical) |
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -20 ... 80 °C |
| Medium temperature min./max. | -10 ... 80 °C |
| Medium | Compressed air Hydraulic oil |
| Measurement | Relative pressure |
| Switching element | microswitch (input/output) |
| Protection against overpressure | 80 bar |
| Max. switching frequency | 1,5 Hz |
| Shock resistance max. | 15 g |
| Vibration resistance | 10 g (60 - 500 Hz) |
| Repeatability (% of full scale value) | ± 1 % |
| Switching point | adjustable |
| Hysteresis | max. switching pressure difference |
| DC operating voltage min./max. | 12 ... 30 V DC |
| Operational voltage AC min./max. | 12 ... 250 V AC |
| Mounting types | via through holes |
| Protection class | IP65 |
| Electr. connection | Plug EN 175301-803, form A |
| Weight | 0.16 kg |

Technical data

| Part No. | | Type | Operating pressure range | Compressed air connection |
|------------|-------------------------------------------------------------------------------------|-------------|--------------------------|-----------------------------|
| | | | min./max. | |
| R412010711 |  | PM1-M3-G014 | -0.9 ... 0 bar | Internal thread, G 1/4 |
| R412022752 |  | PM1-M3-G014 | -0.9 ... 3 bar | Internal thread, G 1/4 |
| R412010712 |  | PM1-M3-G014 | 0.2 ... 16 bar | Internal thread, G 1/4 |
| R412010713 |  | PM1-M3-G014 | 0.2 ... 16 bar | Internal thread, G 1/4 |
| R412010714 |  | PM1-M3-F001 | -0.9 ... 0 bar | Flange with O-ring, Ø 5x1,5 |
| R412010715 |  | PM1-M3-F001 | 0.2 ... 16 bar | Flange with O-ring, Ø 5x1,5 |
| R412010718 |  | PM1-M3-F001 | 0.2 ... 16 bar | Flange with O-ring, Ø 5x1,5 |

| Part No. | Scope of delivery | Fig. | |
|------------|------------------------------|--------|----|
| R412010711 | With valve plug connector | Fig. 1 | - |
| R412022752 | Without valve plug connector | Fig. 1 | - |
| R412010712 | Without valve plug connector | Fig. 1 | 1) |
| R412010713 | With valve plug connector | Fig. 1 | 1) |
| R412010714 | With valve plug connector | Fig. 2 | - |
| R412010715 | Without valve plug connector | Fig. 2 | 1) |

| Part No. | Scope of delivery | Fig. | |
|------------|---------------------------|--------|----|
| R412010718 | With valve plug connector | Fig. 2 | 1) |

1) Min. switching pressure range 0.2 bar falling/0.5 bar rising

Technical information

Switching function increasing pressure: contact switches from 1-2 to 1-3.

Switching function decreasing pressure: contact switches from 1-3 to 1-2.

Notice: Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!

The microswitch has silver-plated contacts.

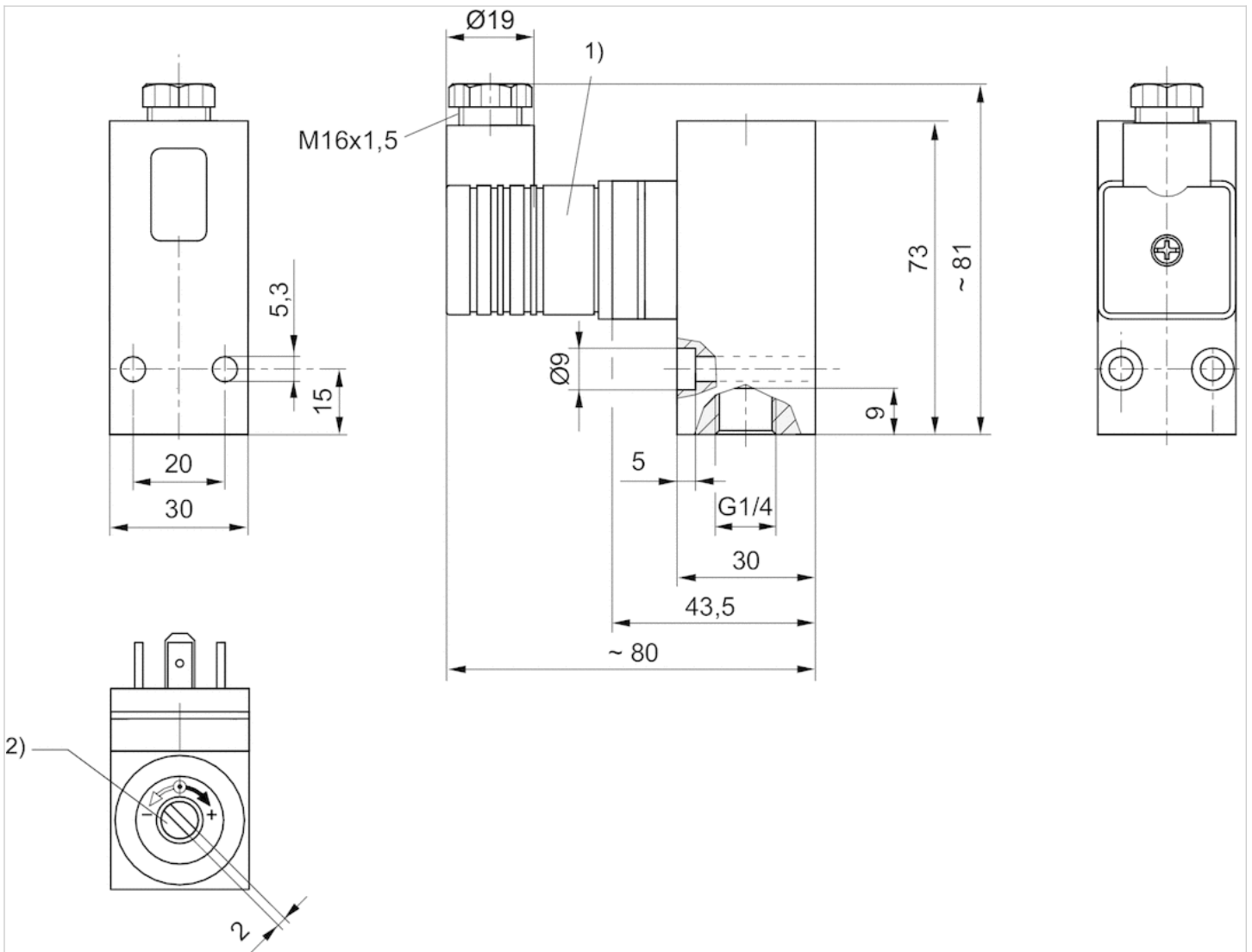
Please observe the pin assignment when selecting plug connectors.

Technical information

| Material | |
|--------------------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |
| Electr. connection | Brass, nickel-plated |

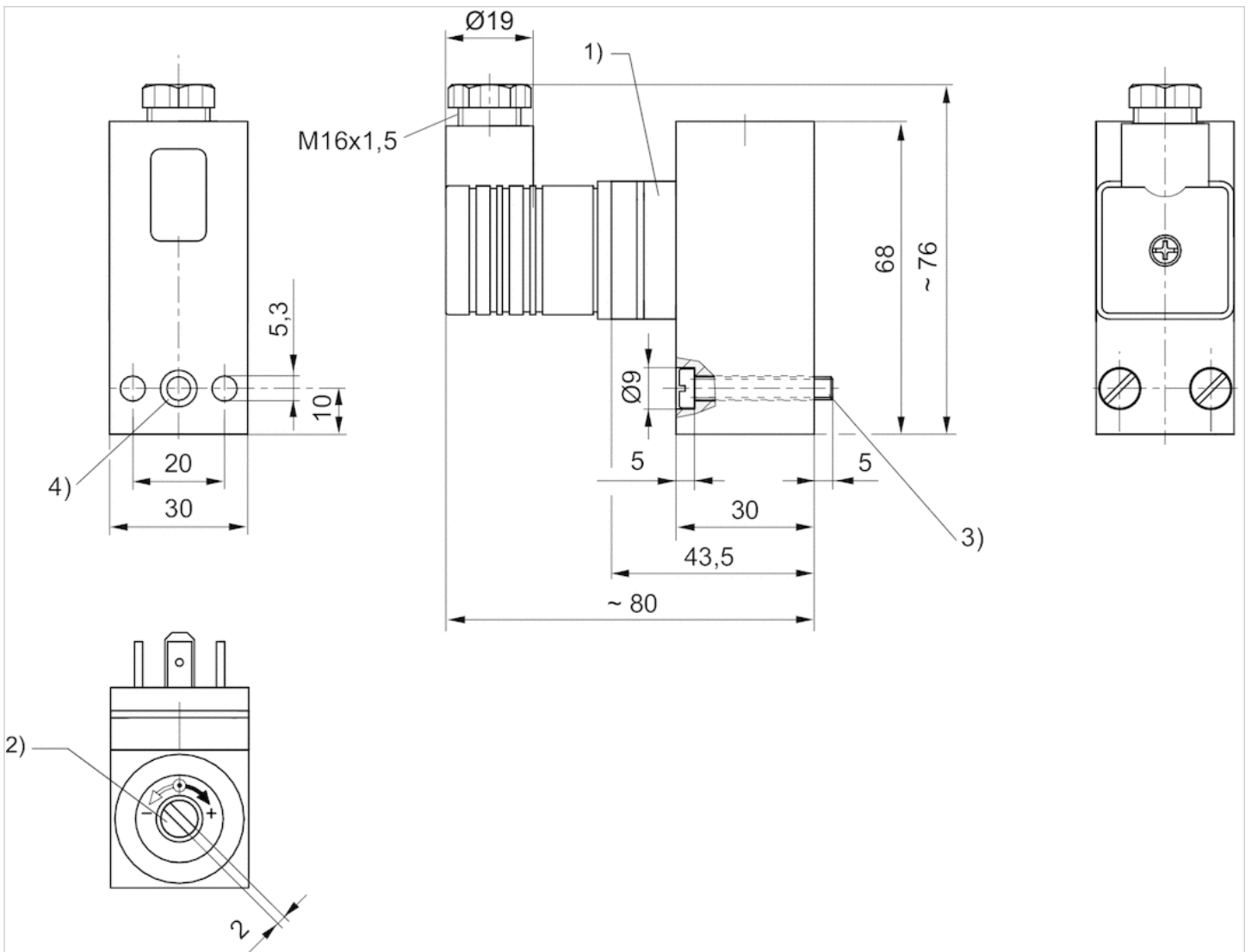
Dimensions

Fig. 1



- 1) Valve plug connector
- 2) Adjustment screw, self-holding

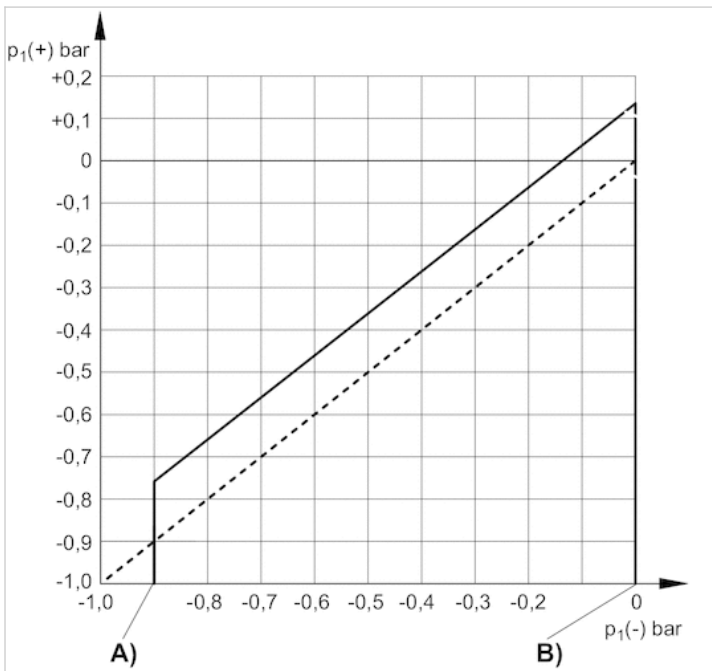
Fig. 2



- 1) Valve plug connector
- 2) Adjustment screw, self-holding
- 3) cylinder screw M5x30 (included in scope of delivery)
- 4) O-ring $\text{Ø}5 \times 1,5$ (included)

Diagrams

differential switching pressure characteristic curve (-0,9 - 0 bar)



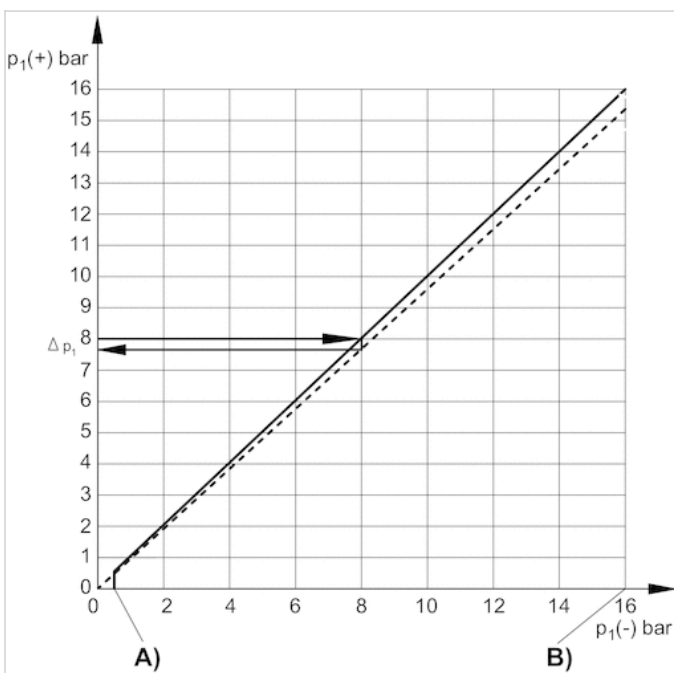
A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

differential switching pressure characteristic curve (0,2 - 16 bar)



A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

Δp_1 = max. operating pressure difference or hysteresis

Example:

$p_1 (+) = 8 \text{ bar} > p_1 (-) = 7.6 \text{ bar}$
 $\Delta p_1 = 0.4 \text{ bar}$

max. permissible continuous current $I_{max.}$ [A] with ohmic load

| U [V] | I [A] 1) | I [A] 2) |
|-------|----------|----------|
| 30 | 5 | 3 |
| 48 | 5 | 1,2 |
| 60 | 5 | 0,8 |
| 125 | 5 | 0,4 |
| 250 | 5 | – |

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC

max. permissible continuous current $I_{max.}$ [A] with inductive load

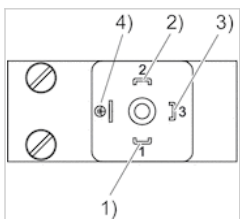
| U [V] | I [A] 1) 3) | I [A] 2) 4) |
|-------|-------------|-------------|
| 30 | 3 | 2 |
| 48 | 3 | 0.55 |
| 60 | 3 | 0.4 |
| 125 | 3 | 0.15 |
| 250 | 3 | – |

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC
- 3) $\cos \approx 0,7^\circ$
- 4) L/R $\approx 10 \text{ ms}$

Pin assignments

PIN assignment for valve plug connectors



| Pin | 1 | 2 | 3 | 4 |
|------------|-----|---------------|-------------------|-----|
| Allocation | +UB | break contact | NO (make contact) | GND |





Pressure Switches, Series PM1

- Operating pressure -0.9 ... 0 0.2 ... 16 bar
- Mechanical
- Spring-loaded bellows, adjustable
- Electr. connection Plug M12x1
- Compressed air connection Internal thread G 1/4 Flange with O-ring Ø 5x1,5



| | |
|---------------------------------------|------------------------------------|
| Type | Mechanical |
| Function | change-over contact (mechanical) |
| Mounting orientation | Any |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | -20 ... 80 °C |
| Medium temperature min./max. | -10 ... 80 °C |
| Medium | Compressed air Hydraulic oil |
| Measurement | Relative pressure |
| Switching element | microswitch (input/output) |
| Protection against overpressure | 80 bar |
| Max. switching frequency | 1,5 Hz |
| Shock resistance max. | 15 g |
| Vibration resistance | 10 g (60 - 500 Hz) |
| Repeatability (% of full scale value) | ± 1 % |
| Switching point | adjustable |
| Hysteresis | max. switching pressure difference |
| DC operating voltage min./max. | 12 ... 30 V DC |
| Operational voltage AC min./max. | 12 ... 30 V AC |
| Mounting types | via through holes |
| Protection class | IP67 |
| Electr. connection | Plug M12x1 |
| Weight | 0.15 kg |

Technical data

| Part No. | | Type | Operating pressure range | Compressed air connection |
|------------|-------------------------------------------------------------------------------------|-------------|--------------------------|-----------------------------|
| | | | min./max. | |
| R412010716 |  | PM1-M3-G014 | -0.9 ... 0 bar | Internal thread, G 1/4 |
| R412010717 |  | PM1-M3-G014 | 0.2 ... 16 bar | Internal thread, G 1/4 |
| R412010719 |  | PM1-M3-F001 | -0.9 ... 0 bar | Flange with O-ring, Ø 5x1,5 |
| R412010720 |  | PM1-M3-F001 | 0.2 ... 16 bar | Flange with O-ring, Ø 5x1,5 |

| Part No. | Fig. | |
|------------|--------|----|
| R412010716 | Fig. 1 | - |
| R412010717 | Fig. 1 | 1) |
| R412010719 | Fig. 2 | - |
| R412010720 | Fig. 2 | 1) |

1) Min. switching pressure range 0.2 bar falling/0.5 bar rising

Technical information

Switching function increasing pressure: contact switches from 1-2 to 1-3.

Switching function decreasing pressure: contact switches from 1-3 to 1-2.

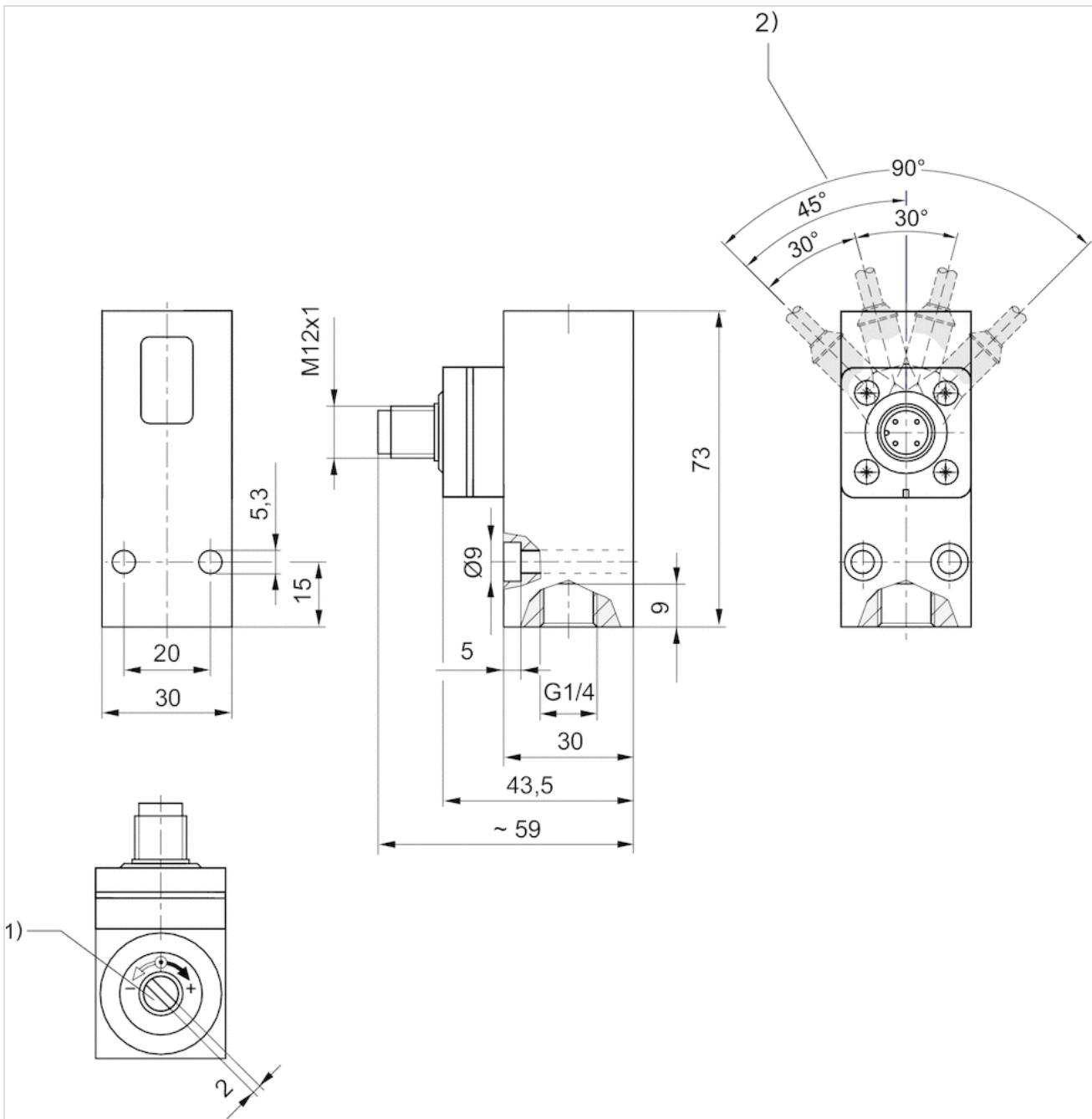
Notice: Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!
The microswitch has silver-plated contacts.

Technical information

| Material | |
|--------------------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |
| Electr. connection | Brass, nickel-plated |

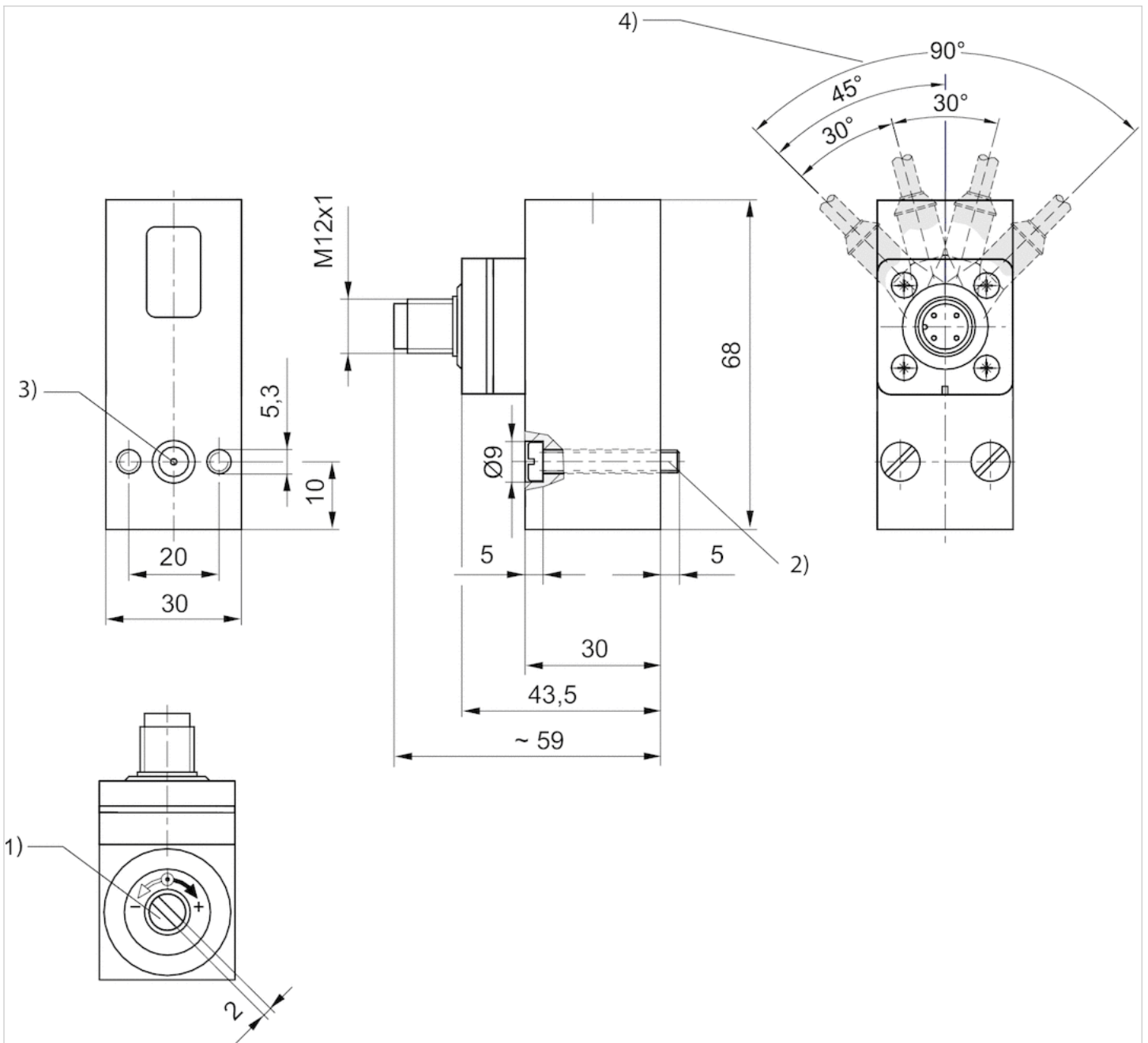
Dimensions

Fig. 1



- 1) Adjustment screw, self-holding
- 2) Detent position

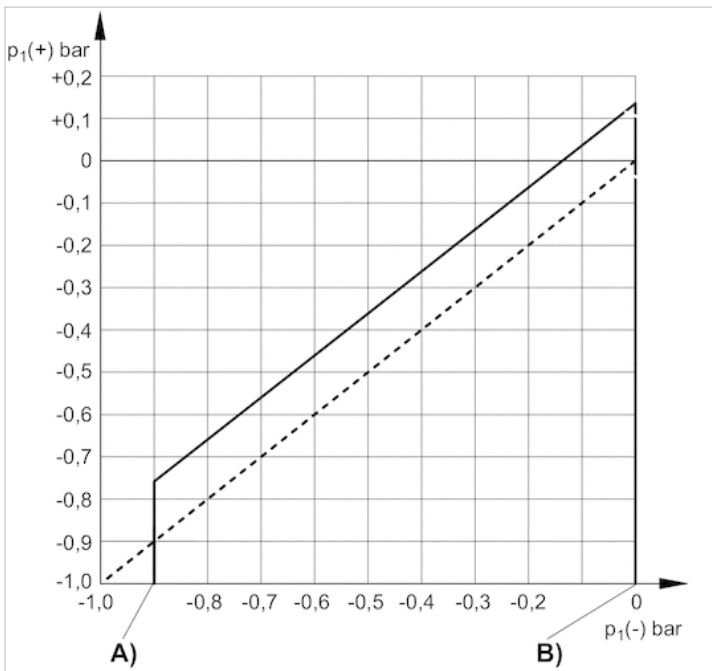
Fig. 2



- 1) Adjustment screw, self-holding
- 2) cylinder screw M5x30 (included in scope of delivery)
- 3) O-ring $\varnothing 5 \times 1,5$ (included)
- 4) Detent position

Diagrams

differential switching pressure characteristic curve (-0,9 - 0 bar)



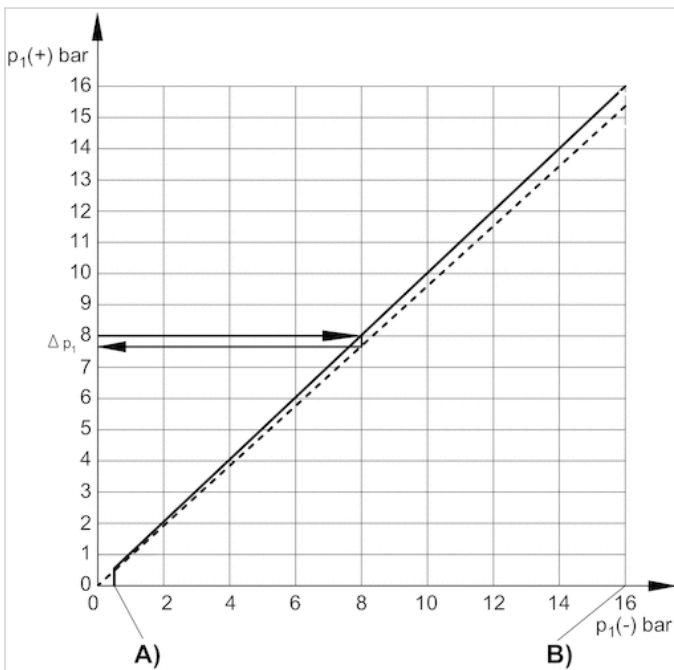
A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

differential switching pressure characteristic curve (0,2 - 16 bar)



A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

Δp_1 = max. operating pressure difference or hysteresis

Example:

p1 (+) = 8 bar > p1(-) = 7.6 bar
 $\Delta p1 = 0.4$ bar

max. permissible continuous current I max. [A] with ohmic load

| U [V] | I [A] 1) | I [A] 2) |
|--------------------|----------|---------------------|
| 30-250 | 3A | |
| 30 / 48 / 60 / 125 | | 3 / 1,2 / 0,8 / 0,4 |

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC

max. permissible continuous current I max. [A] with inductive load

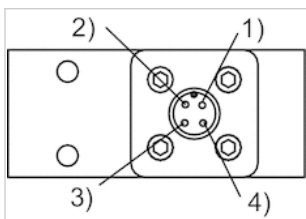
| U [V] | I [A] 1) 3) | I [A] 2) 4) |
|--------------------|-------------|----------------------|
| 30-250 | 3A | |
| 30 / 48 / 60 / 125 | | 2 / 0,55 / 0,4 / 0,2 |

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC
- 3) $\cos \approx 0,7^\circ$
- 4) L/R ≈ 10 ms

Pin assignments

Pin assignments



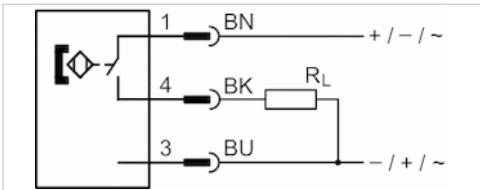
| Pin | 1 | 2 | 3 | 4 |
|------------|-----|---------------|-------------|-------------------|
| Allocation | +UB | break contact | No function | NO (make contact) |

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M12, 4-pin, with knurled screw
- UL certification
- Reed
- Direct mounting for series PRA PRE CCI KPZ SSI GPC CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



| | |
|--------------------------------|-----------------------------------------|
| Certificates | CE declaration of conformity cULus RoHS |
| Ambient temperature min./max. | -30 ... 80 °C |
| Protection class | IP65, IP67 |
| Switching point precision | ±0,1 mT |
| Min./max. DC operating voltage | 10 ... 30 V DC |
| Min./max. AC operating voltage | 10 ... 30 V AC |
| Hysteresis | ≥ 0,2 mT |
| Switching logic | NO (make contact) |
| Switching capacity | Reed, 3-pin: max. 6 W |
| LED status display | Yellow |
| Vibration resistance | 10 - 55 Hz, 1 mm |
| Shock resistance | 30 g / 11 ms |
| Cable length L | 0.3 m |



Technical data

| Part No. | for | Type of contact | Cable length L |
|------------|-----------------------------|-----------------|----------------|
| R412022876 | PRA PRE CCI KPZ SSI GPC CVI | Reed | 0.3 m |

| Part No. | Voltage drop U at I _{max} | DC switching current, max. |
|------------|------------------------------------|----------------------------|
| R412022876 | ≤ 0,1 V | 0.3 A |

| Part No. | AC switching current, max. | Max. switching frequency |
|------------|----------------------------|--------------------------|
| R412022876 | 0.5 A | 400 Hz |

| Part No. | Version |
|------------|-------------------------------------|
| R412022876 | Protected against polarity reversal |

The product of operating voltage and continuous current must not exceed the maximum switching capacity.

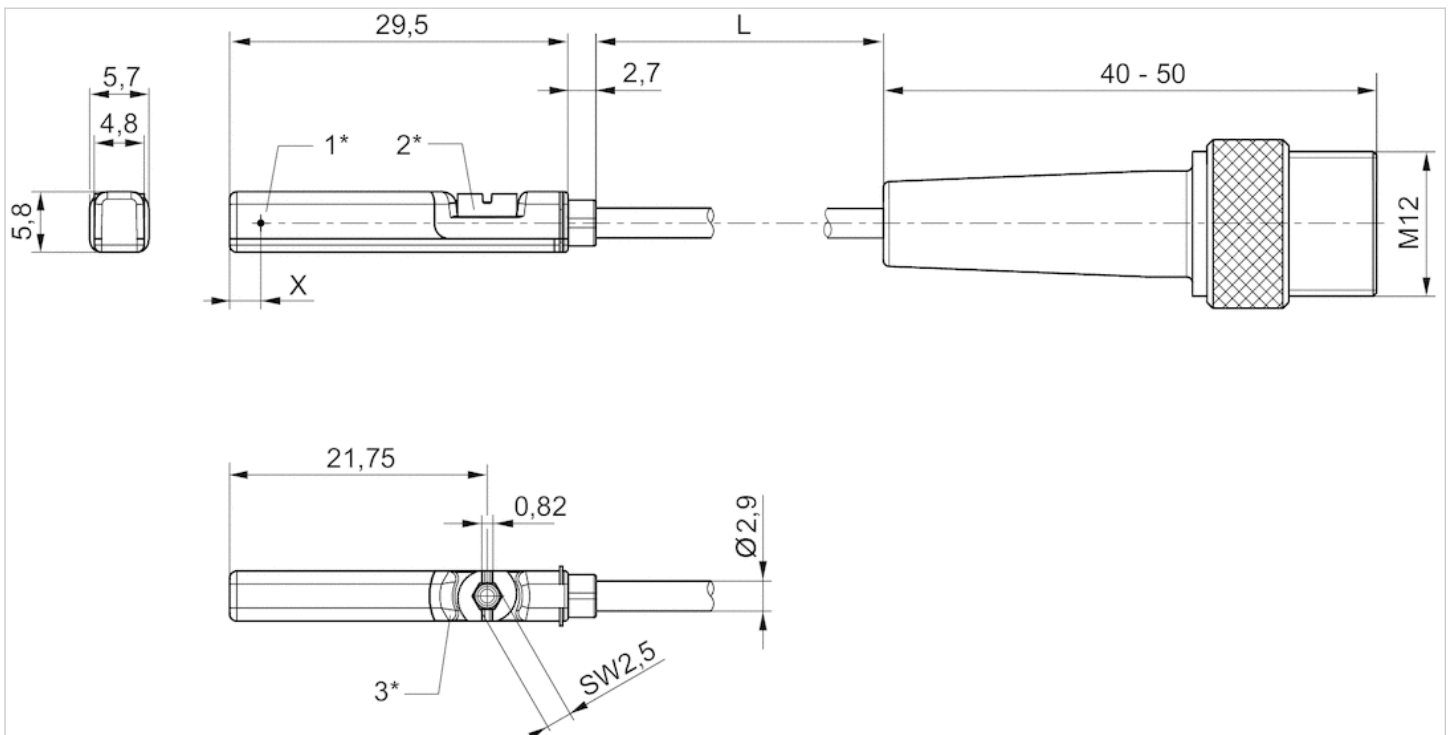
Technical information

Material

| | |
|---------------|-----------------|
| Housing | Polyamide |
| Cable sheath | Polyurethane |
| Locking screw | Stainless steel |

Dimensions

Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent

L = cable length

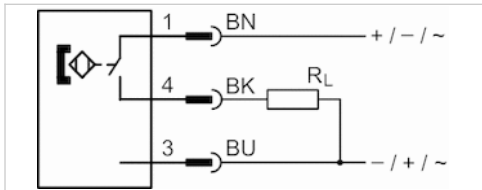
X = PNP: 11,6 mm, reed: 8,3 mm

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M8, 3-pin, with knurled screw
- UL certification
- Reed
- Direct mounting for series PRA PRE CCI KPZ SSI GPC CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



| | |
|--------------------------------|-----------------------------------------|
| Certificates | CE declaration of conformity cULus RoHS |
| Ambient temperature min./max. | -30 ... 80 °C |
| Protection class | IP65, IP67 |
| Switching point precision | ±0,1 mT |
| Min./max. DC operating voltage | 10 ... 30 V DC |
| Min./max. AC operating voltage | 10 ... 30 V AC |
| Hysteresis | ≥ 0,2 mT |
| Switching logic | NO (make contact) |
| Switching capacity | Reed, 3-pin: max. 6 W |
| LED status display | Yellow |
| Vibration resistance | 10 - 55 Hz, 1 mm |
| Shock resistance | 30 g / 11 ms |
| Cable length L | 0.3 0.5 m |



Technical data

| Part No. | for | Type of contact | Cable sheath |
|------------|-----------------------------|-----------------|--------------------|
| R412022873 | PRA PRE CCI KPZ SSI GPC CVI | Reed | Polyurethane |
| R412022875 | PRA PRE CCI KPZ SSI GPC CVI | Reed | Polyvinyl chloride |
| R412022874 | PRA PRE CCI KPZ SSI GPC CVI | Reed | Polyurethane |

| Part No. | Cable length L | Voltage drop U at I _{max} | DC switching current, max. |
|------------|----------------|------------------------------------|----------------------------|
| R412022873 | 0.3 m | I*Rs | 0.3 A |
| R412022875 | 0.3 m | I*Rs | 0.3 A |
| R412022874 | 0.5 m | I*Rs | 0.3 A |

| Part No. | AC switching current, max. | Max. switching frequency |
|------------|----------------------------|--------------------------|
| R412022873 | 0.5 A | 400 Hz |
| R412022875 | 0.5 A | 400 Hz |
| R412022874 | 0.5 A | 400 Hz |

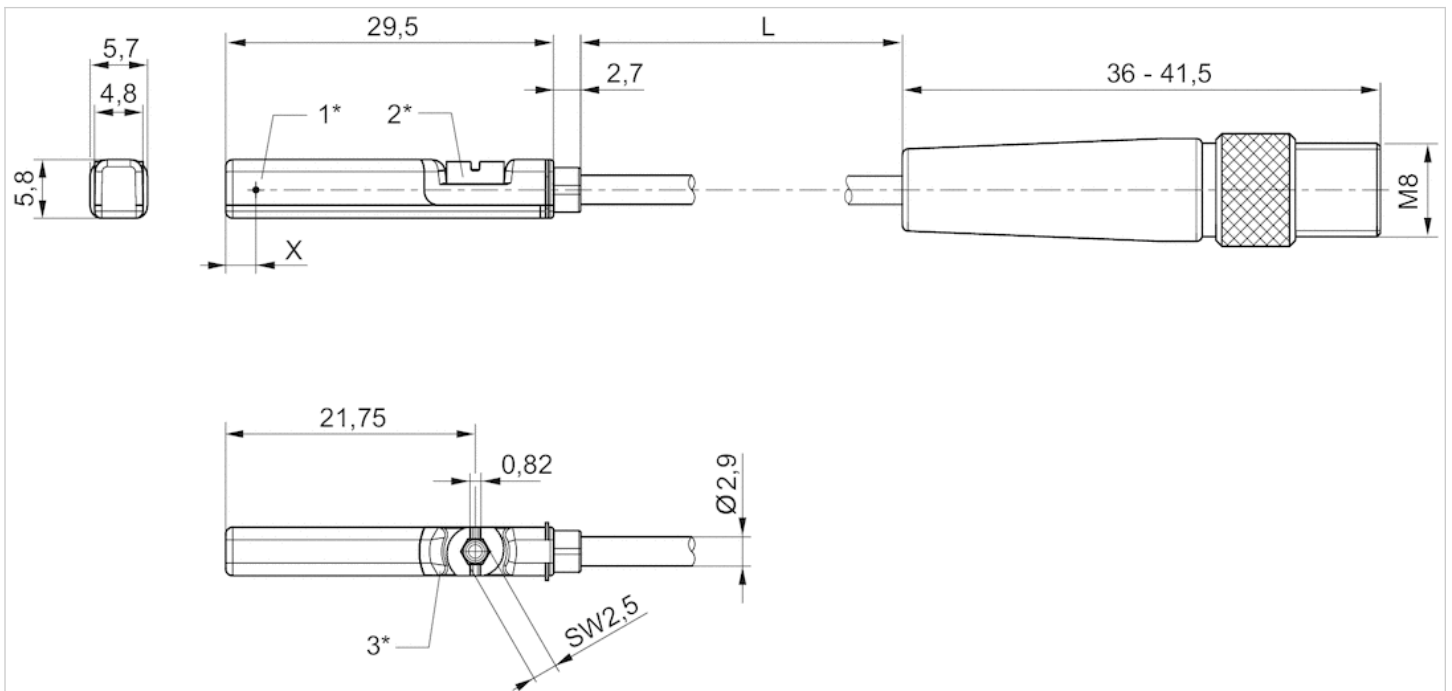
| Part No. | Version |
|------------|-------------------------------------|
| R412022873 | Protected against polarity reversal |
| R412022875 | Protected against polarity reversal |
| R412022874 | Protected against polarity reversal |

Technical information

| Material | |
|---------------|---------------------------------|
| Housing | Polyamide |
| Cable sheath | Polyurethane Polyvinyl chloride |
| Locking screw | Stainless steel |

Dimensions

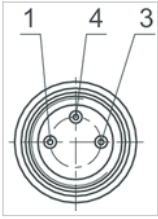
Dimensions



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 X = electronic: 11,6 mm, Reed: 8,3 mm

Pin assignments

Pin assignments



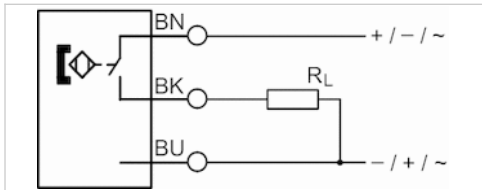
| Pin | 1 | 3 | 4 |
|------------|-----|-----|-------|
| Allocation | (+) | (-) | (OUT) |

Sensor, Series ST6

- 6 mm T-slot
- with cable
- open cable ends, 3-pin
- UL certification
- Reed
- Direct mounting for series PRA PRE CCI KPZ SSI GPC CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, RPC, ICS-D2, ICM, KHZ, TRR



| | |
|--------------------------------|-----------------------------------------|
| Certificates | CE declaration of conformity cULus RoHS |
| Ambient temperature min./max. | -30 ... 80 °C |
| Protection class | IP65, IP67, IP69K |
| Switching point precision | ±0,1 mT |
| Min./max. DC operating voltage | 10 ... 30 V DC |
| Min./max. AC operating voltage | 10 ... 30 V AC |
| Hysteresis | ≥ 0,2 mT |
| Switching logic | NO (make contact) |
| Switching capacity | Reed, 3-pin: max. 6 W |
| LED status display | Yellow |
| Vibration resistance | 10 - 55 Hz, 1 mm |
| Shock resistance | 30 g / 11 ms |
| Cable length L | 3 5 10 m |



Technical data

| Part No. | for | Type of contact | Cable length L |
|------------|-----------------------------|-----------------|----------------|
| R412022869 | PRA PRE CCI KPZ SSI GPC CVI | Reed | 3 m |
| R412022870 | PRA PRE CCI KPZ SSI GPC CVI | Reed | 5 m |
| R412022871 | PRA PRE CCI KPZ SSI GPC CVI | Reed | 10 m |

| Part No. | Voltage drop U at I _{max} | DC switching current, max. |
|------------|------------------------------------|----------------------------|
| R412022869 | I*Rs | 0.3 A |
| R412022870 | ≤ 0,1 V | 0.3 A |
| R412022871 | I*Rs | 0.3 A |

| Part No. | AC switching current, max. | Max. switching frequency |
|------------|----------------------------|--------------------------|
| R412022869 | 0.5 A | 400 Hz |
| R412022870 | 0.5 A | 400 Hz |
| R412022871 | 0.5 A | 400 Hz |

| Part No. | Version | Fig. |
|------------|-------------------------------------|--------|
| R412022869 | Protected against polarity reversal | Fig. 2 |
| R412022870 | Protected against polarity reversal | Fig. 2 |
| R412022871 | Protected against polarity reversal | Fig. 2 |

open cable ends, 3-pin, The product of operating voltage and continuous current must not exceed the maximum switching capacity.

Technical information

No cULus certification for 230 V variant.

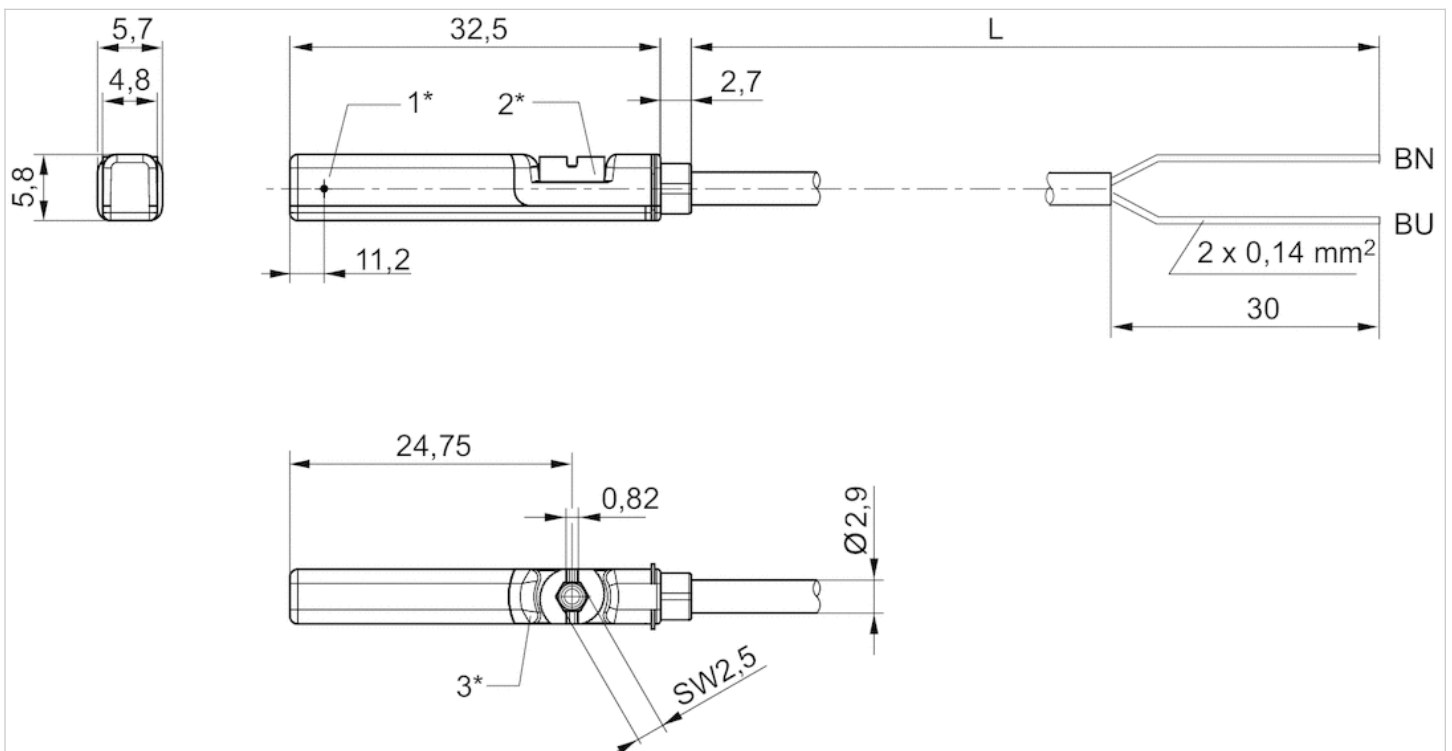
Technical information

Material

| | |
|---------------|-----------------|
| Housing | Polyamide |
| Cable sheath | Polyurethane |
| Locking screw | Stainless steel |

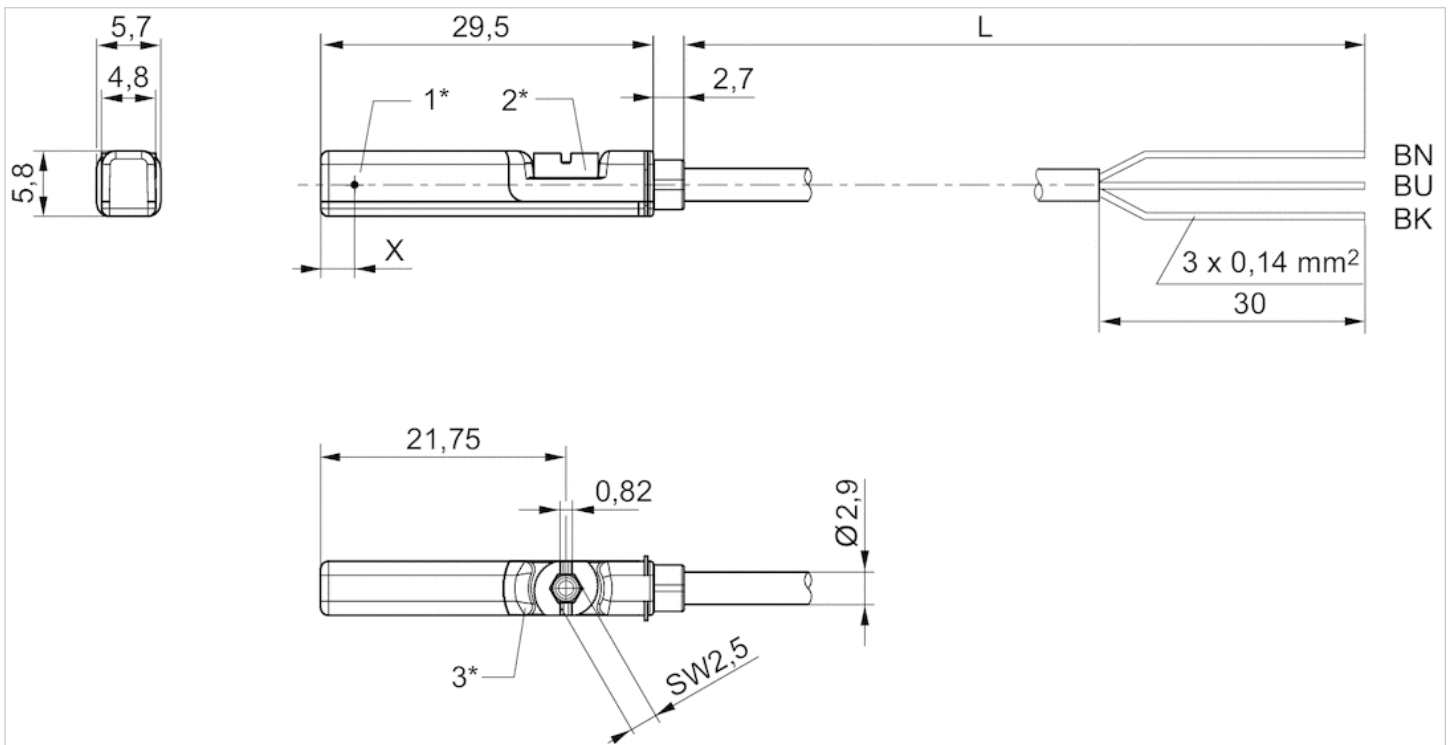
Dimensions

Fig. 1



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 BN=brown, BU=blue

Fig. 2



1* = switching point 2* = locking screw 3* = LED window, transparent
 L = cable length
 BN = brown, BK = black, BU = blue
 X = electronic: 11.6 mm

QR1-S-RPN standard series

- Straight fitting
- External thread
- G 1/4 G 3/8 G 1/2
- push-in fitting
- Ø 4 Ø 6 Ø 8 Ø 10 Ø 12 Ø 14 Ø 16
- QR1-S-RPN



| | |
|-------------------------------|------------------|
| Working pressure min./max. | -0.95 ... 10 bar |
| Ambient temperature min./max. | 0 ... 60 °C |
| Weight per piece | See table below |

Technical data

| Part No. | Port G | Port D | Delivery unit | Weight per piece |
|------------|--------|--------|---------------|------------------|
| 2121004140 | G 1/4 | Ø 4 | 10 piece | 0.02 kg |
| 2121006140 | G 1/4 | Ø 6 | 10 piece | 0.021 kg |
| 2121008140 | G 1/4 | Ø 8 | 10 piece | 0.024 kg |
| 2121010140 | G 1/4 | Ø 10 | 10 piece | 0.026 kg |
| 2121012140 | G 1/4 | Ø 12 | 10 piece | 0.039 kg |
| R412005000 | G 3/8 | Ø 6 | 10 piece | 0.032 kg |
| 2121008380 | G 3/8 | Ø 8 | 10 piece | 0.035 kg |
| 2121010380 | G 3/8 | Ø 10 | 10 piece | 0.042 kg |
| 2121012380 | G 3/8 | Ø 12 | 10 piece | 0.045 kg |
| 2121014380 | G 3/8 | Ø 14 | 10 piece | 0.046 kg |
| R412005005 | G 3/8 | Ø 16 | 10 piece | 0.058 kg |
| R412005001 | G 1/2 | Ø 8 | 10 piece | 0.052 kg |
| 2121010120 | G 1/2 | Ø 10 | 10 piece | 0.058 kg |
| 2121012120 | G 1/2 | Ø 12 | 10 piece | 0.057 kg |
| 2121014120 | G 1/2 | Ø 14 | 10 piece | 0.064 kg |
| R412005006 | G 1/2 | Ø 16 | 10 piece | 0.067 kg |

Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

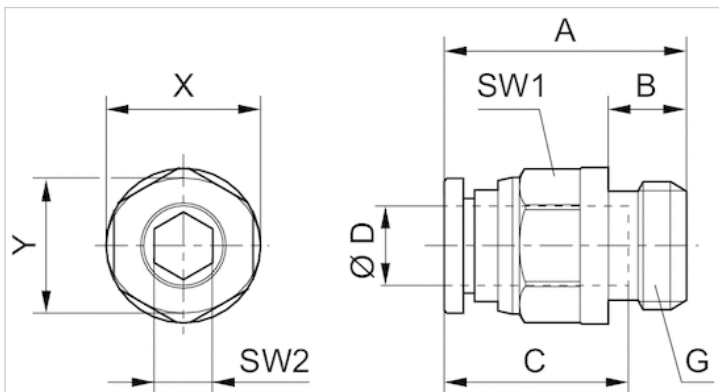
Technical information

Material

| | |
|---------------------|------------------------------------|
| Material | nickel-plated |
| Housing | Brass, nickel-plated |
| Seal | Acrylonitrile butadiene rubber |
| Tooth lock washer | Stainless steel |
| Release ring | Polyoxymethylene |
| Release ring holder | Die cast zinc Brass, nickel-plated |
| Thread | Brass, nickel-plated |

Dimensions

Dimensions



Dimensions

| Part No. | Port D | Port G | A | B | C | SW1 | SW2 | X | Y |
|------------|--------|--------|------|-----|------|-----|-----|----|----|
| 2121004140 | Ø 4 | G 1/4 | 19.1 | 6 | 16 | 10 | 3 | 12 | 10 |
| 2121006140 | Ø 6 | G 1/4 | 21.6 | 6 | 17 | 12 | 4 | 14 | 12 |
| 2121008140 | Ø 8 | G 1/4 | 22.4 | 6 | 18.5 | 14 | 6 | 16 | 14 |
| 2121010140 | Ø 10 | G 1/4 | 29.9 | 6 | 21 | 17 | 7 | 19 | 17 |
| 2121012140 | Ø 12 | G 1/4 | 33.4 | 6 | 22.5 | 21 | 7 | 23 | 21 |
| R412005000 | Ø 6 | G 3/8 | 21.6 | 7 | 17 | 12 | 4 | 14 | 12 |
| 2121008380 | Ø 8 | G 3/8 | 23.2 | 7 | 18.5 | 14 | 6 | 16 | 14 |
| 2121010380 | Ø 10 | G 3/8 | 25.9 | 7 | 21 | 17 | 8 | 19 | 17 |
| 2121012380 | Ø 12 | G 3/8 | 33.5 | 7 | 23 | 21 | 9 | 23 | 21 |
| 2121014380 | Ø 14 | G 3/8 | 30.1 | 7 | 24.6 | 22 | 9 | 25 | 23 |
| R412005005 | Ø16 | G 3/8 | 35.3 | 7 | 25.5 | 24 | 8 | 27 | 24 |
| R412005001 | Ø 8 | G 1/2 | 25.7 | 8.5 | 18.5 | 14 | 6 | 16 | 14 |
| 2121010120 | Ø 10 | G 1/2 | 27.4 | 8.5 | 21 | 17 | 8 | 19 | 17 |
| 2121012120 | Ø 12 | G 1/2 | 29.5 | 8.5 | 23 | 21 | 10 | 23 | 21 |
| 2121014120 | Ø 14 | G 1/2 | 25.6 | 8.5 | 24.6 | 24 | 11 | 25 | 23 |
| R412005006 | Ø16 | G 1/2 | 36.3 | 8.5 | 25.5 | 24 | 10 | 27 | 24 |

QR1-S-RVT standard series

- Elbow fitting
- External thread
- G 1/4 G 3/8 G 1/2
- push-in fitting
- Ø 4 Ø 6 Ø 8 Ø 10 Ø 12 Ø 14 Ø 16
- QR1-S-RVT



| | |
|-------------------------------|------------------|
| Working pressure min./max. | -0.95 ... 10 bar |
| Ambient temperature min./max. | 0 ... 60 °C |
| Weight per piece | See table below |

Technical data

| Part No. | Port G | Port D | Delivery unit | Weight per piece |
|------------|--------|--------|---------------|------------------|
| 2122004140 | G 1/4 | Ø 4 | 10 piece | 0.017 kg |
| 2122006140 | G 1/4 | Ø 6 | 10 piece | 0.019 kg |
| 2122008140 | G 1/4 | Ø 8 | 10 piece | 0.023 kg |
| 2122010140 | G 1/4 | Ø 10 | 10 piece | 0.029 kg |
| 2122012140 | G 1/4 | Ø 12 | 10 piece | 0.042 kg |
| R412005092 | G 3/8 | Ø 6 | 10 piece | 0.031 kg |
| 2122008380 | G 3/8 | Ø 8 | 10 piece | 0.033 kg |
| 2122010380 | G 3/8 | Ø 10 | 10 piece | 0.04 kg |
| 2122012380 | G 3/8 | Ø 12 | 10 piece | 0.044 kg |
| 2122014380 | G 3/8 | Ø 14 | 5 piece | 0.048 kg |
| R412005097 | G 3/8 | Ø 16 | 5 piece | 0.061 kg |
| R412005093 | G 1/2 | Ø 8 | 10 piece | 0.049 kg |
| 2122010120 | G 1/2 | Ø 10 | 10 piece | 0.05 kg |
| 2122012120 | G 1/2 | Ø 12 | 10 piece | 0.056 kg |
| 2122014120 | G 1/2 | Ø 14 | 5 piece | 0.066 kg |
| R412005098 | G 1/2 | Ø 16 | 5 piece | 0.076 kg |

Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

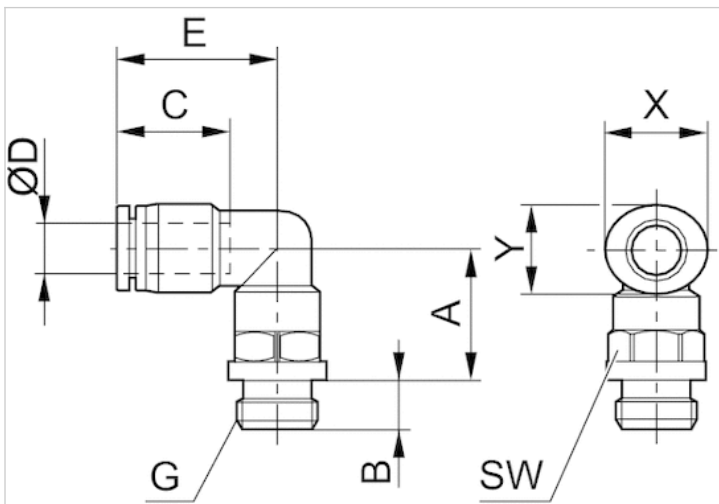
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| Material | |
|---------------------|------------------------------------|
| Material | nickel-plated |
| Housing | Polybutyleneterephthalate |
| Seal | Acrylonitrile butadiene rubber |
| Tooth lock washer | Stainless steel |
| Release ring | Polyoxymethylene |
| Release ring holder | Die cast zinc Brass, nickel-plated |
| Thread | Brass, nickel-plated |

Dimensions

Dimensions



Dimensions

| Part No. | Port D | Port G | A | B | C | E | SW | X | Y |
|------------|--------|--------|------|-----|------|------|----|----|----|
| 2122004140 | Ø 4 | G 1/4 | 9.5 | 6 | 16 | 18.5 | 16 | 12 | 10 |
| 2122006140 | Ø 6 | G 1/4 | 10.7 | 6 | 17 | 20.3 | 16 | 14 | 12 |
| 2122008140 | Ø 8 | G 1/4 | 11.5 | 6 | 18.5 | 22.6 | 16 | 16 | 14 |
| 2122010140 | Ø 10 | G 1/4 | 16.5 | 6 | 21 | 27 | 16 | 19 | 17 |
| 2122012140 | Ø 12 | G 1/4 | 18.3 | 6 | 22.5 | 29.2 | 16 | 23 | 21 |
| R412005092 | Ø 6 | G 3/8 | 11.2 | 7 | 17 | 20.3 | 20 | 14 | 12 |
| 2122008380 | Ø 8 | G 3/8 | 11.5 | 7 | 18.5 | 22.6 | 20 | 16 | 14 |
| 2122010380 | Ø 10 | G 3/8 | 13.6 | 7 | 21 | 27 | 20 | 19 | 16 |
| 2122012380 | Ø 12 | G 3/8 | 15.3 | 7 | 22.5 | 29.2 | 20 | 23 | 21 |
| 2122014380 | Ø 14 | G 3/8 | 23.1 | 7 | 24.6 | 32.1 | 20 | 25 | 23 |
| R412005097 | Ø16 | G 3/8 | 24.2 | 7 | 24.8 | 33.3 | 20 | 27 | 24 |
| R412005093 | Ø 8 | G 1/2 | 12.5 | 8.5 | 18.5 | 22.6 | 24 | 16 | 14 |
| 2122010120 | Ø 10 | G 1/2 | 14.1 | 8.5 | 21 | 27 | 24 | 19 | 14 |
| 2122012120 | Ø 12 | G 1/2 | 15.8 | 8.5 | 22.5 | 29.2 | 24 | 23 | 21 |
| 2122014120 | Ø 14 | G 1/2 | 17.1 | 8.5 | 24.6 | 32.1 | 24 | 25 | 23 |

| Part No. | Port D | Port G | A | B | C | E | SW | X | Y |
|------------|--------|--------|------|-----|------|------|----|----|----|
| R412005098 | Ø16 | G 1/2 | 18.2 | 8.5 | 24.8 | 33.3 | 24 | 27 | 24 |

Series QR2-S-RPN standard

- Straight fitting
- External thread
- G 1/4 G 3/8 G 1/2
- push-in fitting
- Ø 4 Ø 5 Ø 6 Ø 8 Ø 10 Ø 12 Ø 14 Ø 16
- QR2-S-RPN



Working pressure min./max.

-0.95 ... 16 bar

Ambient temperature min./max.

-20 ... 80 °C

Weight per piece

See table below

Technical data

| Part No. | Port G | Port D | Delivery unit | Weight per piece | Fig. |
|------------|--------|--------|---------------|------------------|--------|
| 1823373045 | G 1/4 | Ø 4 | 25 piece | 0.012 kg | Fig. 1 |
| 1823373046 | G 1/4 | Ø 5 | 10 piece | 0.013 kg | Fig. 1 |
| 1823373047 | G 1/4 | Ø 6 | 25 piece | 0.015 kg | Fig. 1 |
| 1823373048 | G 1/4 | Ø 8 | 10 piece | 0.016 kg | Fig. 1 |
| 1823373049 | G 1/4 | Ø 10 | 10 piece | 0.026 kg | Fig. 1 |
| 1823391809 | G 1/4 | Ø 12 | 10 piece | 0.031 kg | Fig. 1 |
| R412004708 | G 1/4 | Ø 12 | 10 piece | 0.022 kg | Fig. 2 |
| 1823373050 | G 3/8 | Ø 8 | 10 piece | 0.021 kg | Fig. 1 |
| 1823373051 | G 3/8 | Ø 10 | 10 piece | 0.028 kg | Fig. 1 |
| 1823373052 | G 3/8 | Ø 12 | 5 piece | 0.038 kg | Fig. 1 |
| 1823373053 | G 3/8 | Ø 14 | 5 piece | 0.059 kg | Fig. 1 |
| 1823373054 | G 1/2 | Ø 12 | 5 piece | 0.048 kg | Fig. 1 |
| 1823373055 | G 1/2 | Ø 14 | 5 piece | 0.064 kg | Fig. 1 |
| R412007955 | G 1/2 | Ø 16 | 1 piece | 0.072 kg | Fig. 1 |

Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| Material | |
|-------------------|--------------------------------|
| Housing | Brass, nickel-plated |
| Seal | Acrylonitrile butadiene rubber |
| Tooth lock washer | Stainless steel |
| Release ring | Brass, nickel-plated |
| Thread | Brass, nickel-plated |

Dimensions

Fig. 1

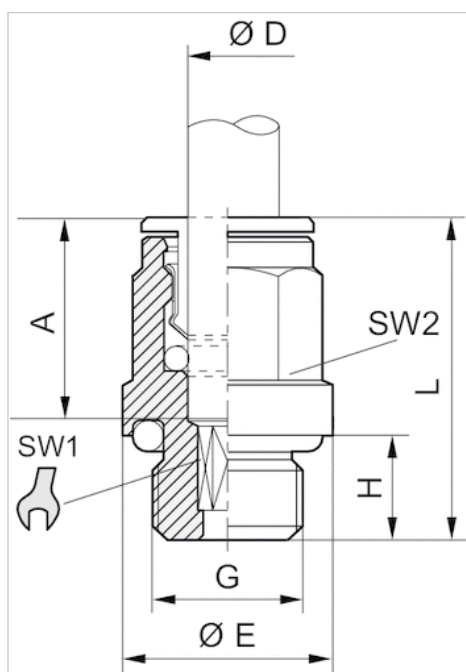
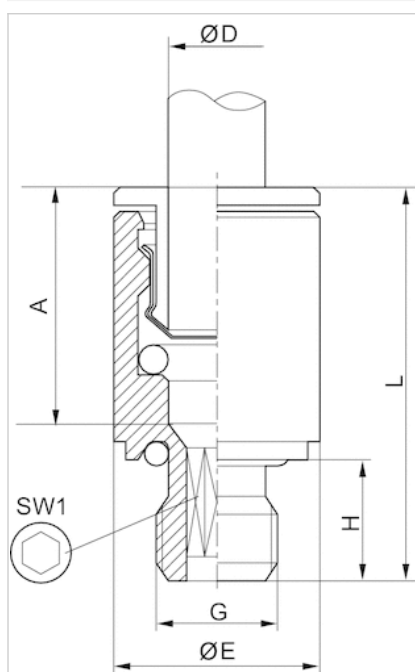


Fig. 2



Dimensions

| Part No. | Port D | Port G | Ø E | H | L | A Insertion depth | SW 1 | SW 2 | Fig. |
|------------|--------|--------|-----|-----|------|-------------------|------|------|--------|
| 1823373045 | Ø 4 | G 1/4 | 17 | 8 | 21 | 15 | 2.5 | 9 | Fig. 1 |
| 1823373046 | Ø 5 | G 1/4 | 17 | 8 | 22 | 16 | 4 | 10 | Fig. 1 |
| 1823373047 | Ø 6 | G 1/4 | 17 | 6.5 | 22.5 | 16 | 4 | 11 | Fig. 1 |
| 1823373048 | Ø 8 | G 1/4 | 17 | 8 | 25 | 18 | 6 | 13 | Fig. 1 |
| 1823373049 | Ø 10 | G 1/4 | 16 | 8 | 29.5 | 19 | 7 | 16 | Fig. 1 |
| 1823391809 | Ø 12 | G 1/4 | 16 | 6.5 | 30 | 20 | 7 | 18 | Fig. 1 |
| R412004708 | Ø 12 | G 1/4 | 17 | 8.3 | 31 | 7 | - | - | Fig. 2 |
| 1823373050 | Ø 8 | G 3/8 | 20 | 9 | 25 | 18 | 6 | 13 | Fig. 1 |
| 1823373051 | Ø 10 | G 3/8 | 21 | 9 | 29.5 | 19 | 8 | 16 | Fig. 1 |
| 1823373052 | Ø 12 | G 3/8 | 21 | 9 | 31 | 20 | 10 | 18 | Fig. 1 |
| 1823373053 | Ø 14 | G 3/8 | 21 | 9 | 34 | 22 | 10 | 21 | Fig. 1 |
| 1823373054 | Ø 12 | G 1/2 | 24 | 11 | 31 | 20 | 10 | 18 | Fig. 1 |
| 1823373055 | Ø 14 | G 1/2 | 24 | 11 | 34 | 22 | 12 | 21 | Fig. 1 |
| R412007955 | Ø16 | G 1/2 | 24 | 11 | 37 | 12 | 24 | - | Fig. 1 |

Series QR2-S-RVT standard

- Elbow fitting, rotatable
- External thread
- G 1/4 G 3/8 G 1/2
- push-in fitting
- Ø 4 Ø 6 Ø 8 Ø 10 Ø 12 Ø 14 Ø 16
- QR2-S-RVT



| | |
|-------------------------------|------------------|
| Working pressure min./max. | -0.95 ... 16 bar |
| Ambient temperature min./max. | -20 ... 80 °C |
| Weight per piece | See table below |

Technical data

| Part No. | Port G | Port D | Delivery unit | Weight per piece |
|------------|--------|--------|---------------|------------------|
| 1823391713 | G 1/4 | Ø 4 | 10 piece | 0.024 kg |
| 1823391714 | G 1/4 | Ø 6 | 10 piece | 0.025 kg |
| 1823391715 | G 1/4 | Ø 8 | 10 piece | 0.027 kg |
| 1823391718 | G 1/4 | Ø 10 | 5 piece | 0.031 kg |
| 1823391843 | G 1/4 | Ø 12 | 5 piece | 0.042 kg |
| 1823391716 | G 3/8 | Ø 8 | 5 piece | 0.042 kg |
| 1823391717 | G 3/8 | Ø 10 | 5 piece | 0.042 kg |
| 1823391838 | G 3/8 | Ø 12 | 5 piece | 0.045 kg |
| 1823391839 | G 3/8 | Ø 14 | 5 piece | 0.062 kg |
| R412010182 | G 3/8 | Ø 16 | 1 piece | 0.072 kg |
| R412007589 | G 1/2 | Ø 10 | 5 piece | 0.046 kg |
| 1823391840 | G 1/2 | Ø 12 | 5 piece | 0.065 kg |
| 1823391841 | G 1/2 | Ø 14 | 5 piece | 0.07 kg |
| R412007956 | G 1/2 | Ø 16 | 1 piece | 0.084 kg |

Technical information

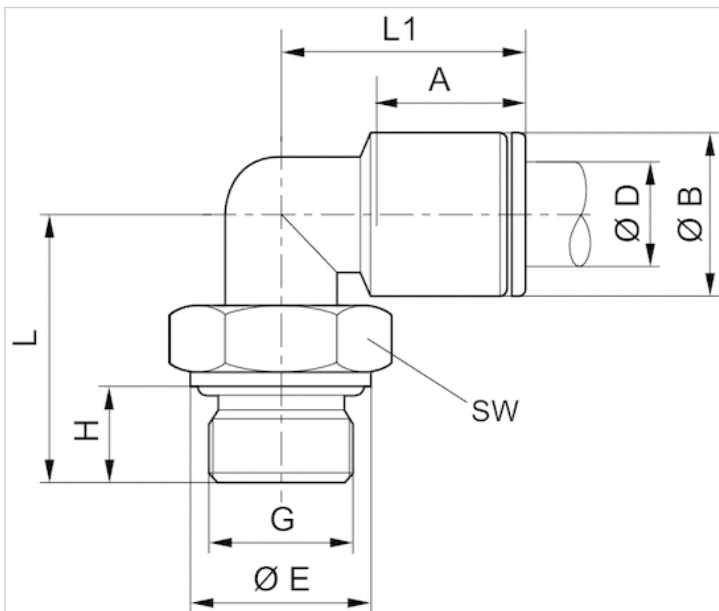
The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| Material | |
|-------------------|--------------------------------|
| Housing | Brass, nickel-plated |
| Seal | Acrylonitrile butadiene rubber |
| Tooth lock washer | Stainless steel |
| Release ring | Brass, nickel-plated |
| Thread | Brass, nickel-plated |

Dimensions



Dimensions

| Part No. | Port D | Port G | ØB | ØE | H | L | L1 | A Insertion depth | SW |
|------------|--------|--------|----|----|----|------|----|-------------------|----|
| 1823391713 | Ø 4 | G 1/4 | 9 | 16 | 8 | 24 | 19 | 15 | 13 |
| 1823391714 | Ø 6 | G 1/4 | 11 | 16 | 8 | 24 | 21 | 16 | 13 |
| 1823391715 | Ø 8 | G 1/4 | 13 | 16 | 8 | 24 | 24 | 18 | 13 |
| 1823391718 | Ø 10 | G 1/4 | 15 | 16 | 8 | 24 | 27 | 19 | 16 |
| 1823391843 | Ø 12 | G 1/4 | 17 | 16 | 8 | 30.5 | 29 | 20 | 16 |
| 1823391716 | Ø 8 | G 3/8 | 13 | 20 | 9 | 25.5 | 24 | 18 | 13 |
| 1823391717 | Ø 10 | G 3/8 | 15 | 20 | 9 | 28 | 27 | 19 | 16 |
| 1823391838 | Ø 12 | G 3/8 | 17 | 20 | 9 | 28.5 | 28 | 20 | 20 |
| 1823391839 | Ø 14 | G 3/8 | 20 | 20 | 9 | 28.5 | 31 | 22 | 20 |
| R412010182 | Ø16 | G 3/8 | 23 | 20 | 9 | 33.5 | 33 | 23.5 | 20 |
| R412007589 | Ø 10 | G 1/2 | 15 | 25 | 11 | 30 | 27 | 19 | 16 |
| 1823391840 | Ø 12 | G 1/2 | 17 | 25 | 11 | 33.5 | 28 | 20 | 20 |
| 1823391841 | Ø 14 | G 1/2 | 20 | 25 | 11 | 33.5 | 31 | 22 | 20 |
| R412007956 | Ø16 | G 1/2 | 23 | 25 | 11 | 38 | 33 | 23.5 | 20 |

Series NU2

- Swivel banjo connection 1-fold
- External thread
- G 3/8 G 1/2
- plug-in with tube nut
- Ø 8 Ø 13
- NU2-S-RW1



| | |
|-------------------------------|------------------|
| Working pressure min./max. | -0.95 ... 10 bar |
| Ambient temperature min./max. | -10 ... 60 °C |
| Weight per piece | See table below |

Technical data

| Part No. | Port G | Port D | Delivery unit | Weight per piece |
|------------|--------|--------|---------------|------------------|
| 1823391296 | G 3/8 | Ø 8 | 2 piece | 0.056 kg |
| R412007839 | G 3/8 | Ø 13 | 2 piece | 0.079 kg |
| R412007838 | G 1/2 | Ø 13 | 2 piece | 0.098 kg |

Technical information

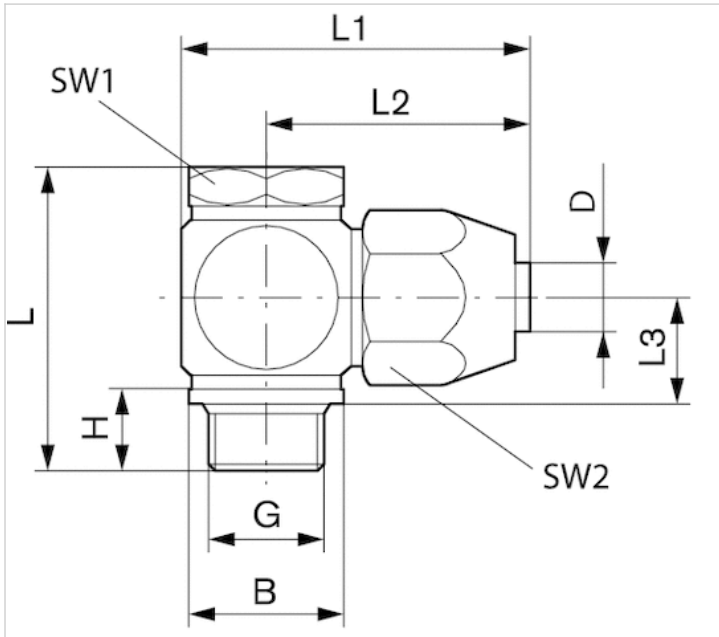
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| Material | |
|----------|--------------------|
| Housing | Aluminum, anodized |
| Seal | Polyvinyl chloride |

Dimensions

Dimensions



for fabric-reinforced plastic tubing

Dimensions

| Part No. | Port D | Port G | B | H | L | L1 | L2 | L3 | SW1 | SW2 |
|------------|--------|--------|------|------|------|----|----|------|-----|-----|
| 1823391296 | Ø 8 | G 3/8 | 21 | 12.5 | 43 | 47 | 35 | 15.5 | 22 | 22 |
| R412007839 | Ø 13 | G 3/8 | 22.9 | 12.5 | 47 | 49 | 37 | 18.5 | 22 | 30 |
| R412007838 | Ø 13 | G 1/2 | 22.9 | 14 | 49.5 | 55 | 40 | 18.5 | 27 | 30 |

Connection D = inside diameter of the tubing to be used

Double nipple, Series PE5

- External thread



Weight per piece

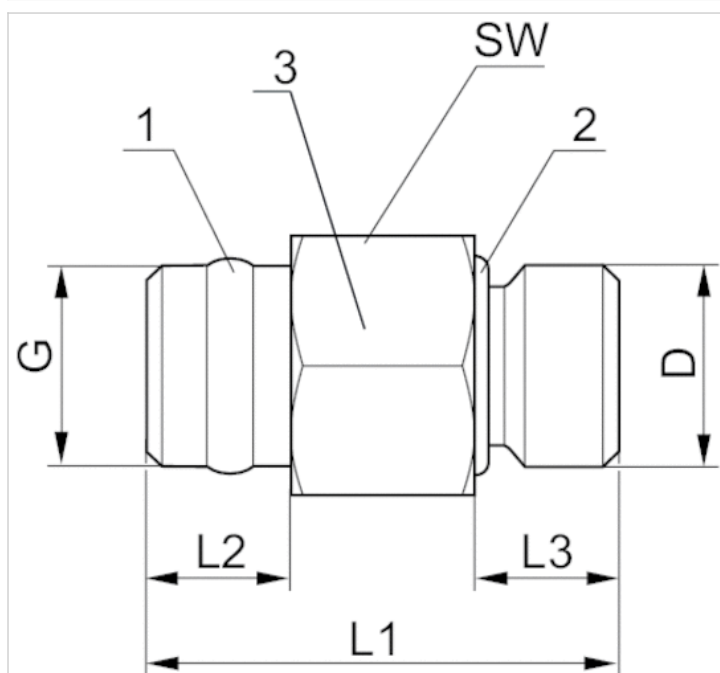
0.04 kg

Technical data

| Part No. | Port G | Port D | Delivery unit |
|------------|--------|--------|---------------|
| R412010015 | G 1/4 | G 1/8 | 2 piece |
| R412010016 | G 1/4 | G 1/4 | 2 piece |

Dimensions

Dimensions



- 1) sealing ring Polytetrafluorethylen
- 2) O-ring - acrylonitrile butadiene rubber
- 3) Housing - brass, nickel-plated

Dimensions

| Part No. | Port G | Port D | L1 | L2 | L3 | SW |
|------------|--------|--------|----|----|-----|----|
| R412010015 | G 1/4 | G 1/8 | 30 | 10 | 8.5 | 17 |
| R412010016 | G 1/4 | G 1/4 | 30 | 10 | 8.5 | 17 |

Blanking screw

- External thread
- G 1/8 G 1/4
- FPT-S-RIO



Working pressure min./max.

0 ... 16 bar

Ambient temperature min./max.

-20 ... 80 °C

Technical data

| Part No. | Port G | Delivery unit |
|------------|--------|---------------|
| 1823462004 | G 1/8 | 10 piece |
| 1823462003 | G 1/4 | 10 piece |

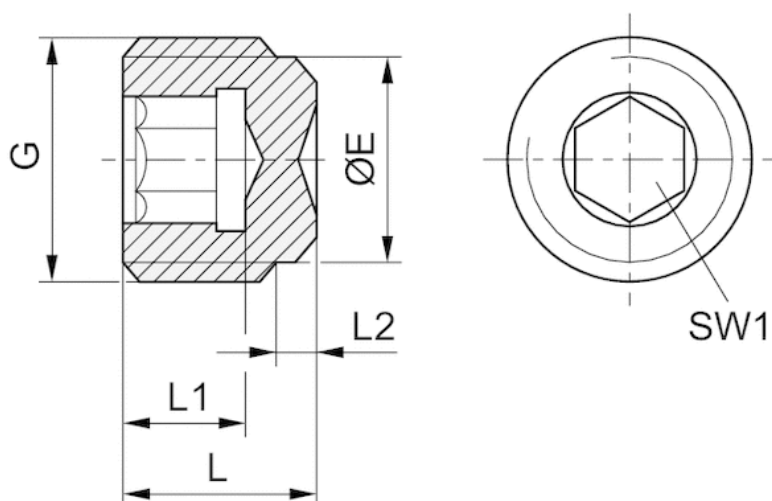
Technical information

Material

| | |
|----------|-------|
| Material | Brass |
|----------|-------|

Dimensions

Dimensions



Dimensions in mm

| Port G | ØE | L | L1 | L2 | SW1 |
|--------|----|----|----|-----|-----|
| G 1/8 | 8 | 8 | 5 | 2 | 5 |
| G 1/4 | 11 | 11 | 7 | 3.5 | 6 |

plugs



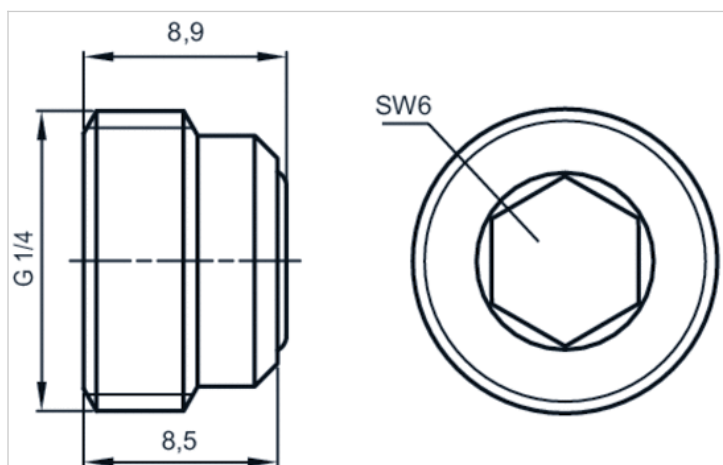
Technical data

| Part No. | Type | Suitable for | Delivery unit |
|------------|-------|----------------------------------|---------------|
| R412010124 | plugs | Pressure gauge connection: G 1/4 | 10 piece |

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Polyamide |
| Seal | Acrylonitrile butadiene rubber |

Dimensions



Reducing nipple

- External thread
- G 3/8 G 1/2
- Internal thread
- G 1/4 G 3/8
- FPT-S-RDZ



Working pressure min./max.

0 ... 60 bar

Ambient temperature min./max.

-20 ... 70 °C

Technical data

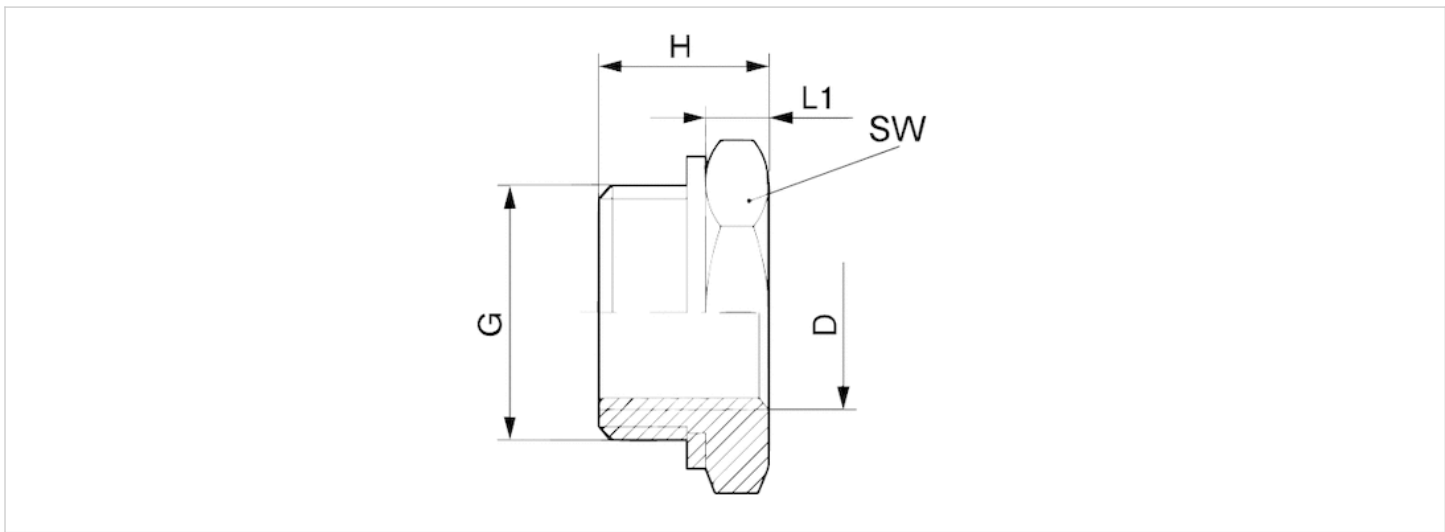
| Part No. | Port G | Port D | Delivery unit |
|------------|--------|--------|---------------|
| 1823391013 | G 3/8 | G 1/4 | 10 piece |
| 1823391300 | G 1/2 | G 1/4 | 5 piece |
| 1823391014 | G 1/2 | G 3/8 | 5 piece |

Technical information

| Material | |
|----------|--------------------------|
| Material | Brass, nickel-plated |
| Seal | Polyvinyl chloride, hard |

Dimensions

Dimensions



Dimensions

| Part No. | Port D | Port G | H | L1 | SW |
|------------|--------|--------|------|-----|----|
| 1823391013 | G 1/4 | G 3/8 | 15 | 5 | 19 |
| 1823391300 | G 1/4 | G 1/2 | 15.5 | 5.5 | 24 |
| 1823391014 | G 3/8 | G 1/2 | 15.5 | 5.5 | 24 |

Sealing ring

- Acrylonitrile butadiene styrene



Working pressure min./max.

-0.95 ... 16 bar

Ambient temperature min./max.

-10 ... 60 °C

Technical data

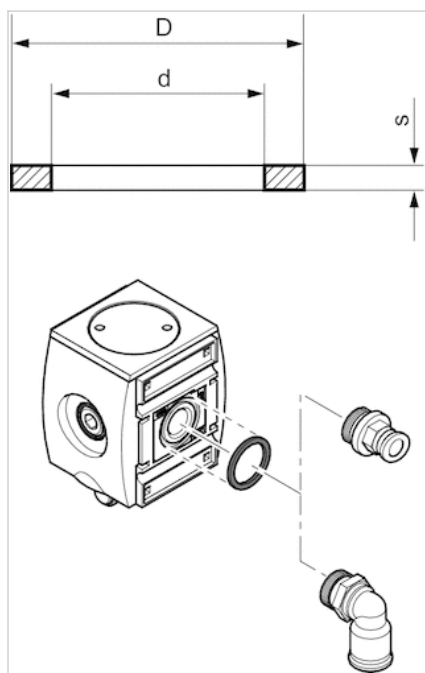
| Part No. | Port G | Delivery unit |
|------------|--------|---------------|
| R412010148 | G 3/8 | 10 piece |
| R412010149 | G 1/2 | 10 piece |
| R412010150 | G 1 | 10 piece |

For inserting into the O-ring groove when using series QR1 and QR2 fittings.

Technical information

| Material | |
|----------|---------------------------------|
| Material | Acrylonitrile butadiene styrene |

Dimensions



Dimensions

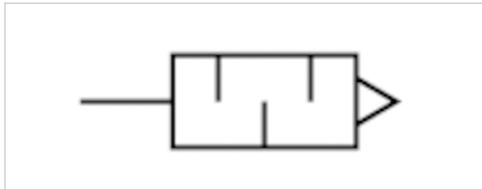
| Part No. | usage | Type | d | D | s |
|------------|-------|-------------------------------------|------|------|-----|
| R412010148 | AS2 | For compressed air connection G 3/8 | 18.5 | 22.8 | 2.0 |
| R412010149 | AS3 | For compressed air connection G 1/2 | 22.4 | 26.4 | 2.0 |
| R412010150 | AS5 | For compressed air connection G 1 | 36.9 | 41.9 | 2.0 |

Silencers, series SI1

- G 1/2
- Sintered bronze



| | |
|-------------------------------|-----------------------------------------------------------|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Sound pressure level | 90 dB |
| Weight | 0.08 kg |
| Comment | Flow characteristic curves can be found under "Diagrams". |



Technical data

| Part No. | Compressed air connection | Flow | Delivery unit |
|------------|---------------------------|------------|---------------|
| | | Qn | |
| 1827000003 | G 1/2 | 7223 l/min | 2 piece |

Weight per piece

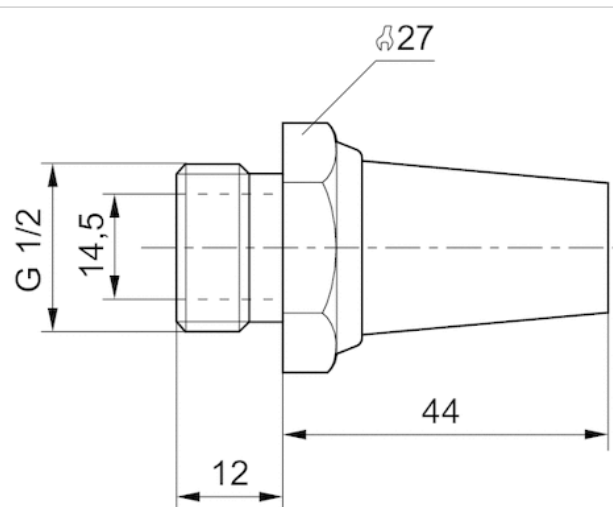
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

| Material | |
|----------|-----------------|
| Silencer | Sintered bronze |
| Thread | Brass |

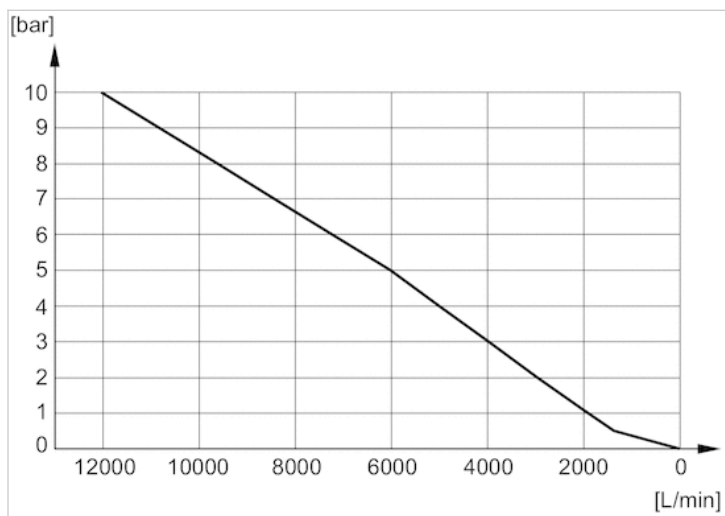
Dimensions

Dimensions in mm



Diagrams

Flow diagram, 1827000003

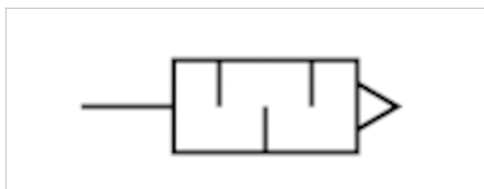


Silencers, series SI1

- G 1/2
- Sintered bronze



| | |
|-------------------------------|-----------------------------------------------------------|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Sound pressure level | 85 dB |
| Weight | 0.035 kg |
| Comment | Flow characteristic curves can be found under "Diagrams". |



Technical data

| Part No. | Compressed air connection | Flow | Delivery unit |
|------------|---------------------------|------------|---------------|
| | | Qn | |
| 1827000035 | G 1/2 | 2568 l/min | 2 piece |

Weight per piece

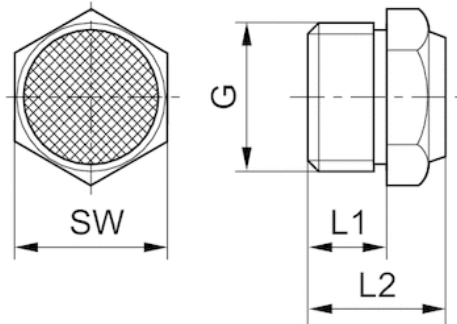
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

| Material | |
|----------|-----------------|
| Silencer | Sintered bronze |
| Thread | Brass |

Dimensions

Dimensions



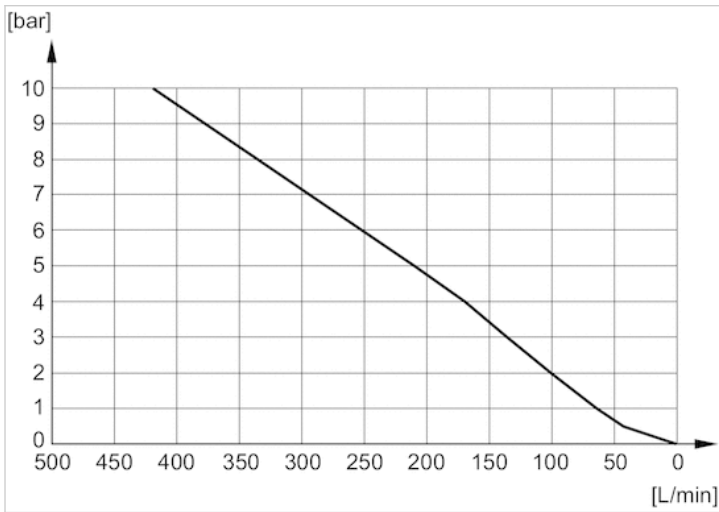
Dimensions

| Part No. | Port G | L1 | L2 | SW |
|------------|--------|----|------|----|
| 1827000035 | G 1/2 | 12 | 19.5 | 27 |

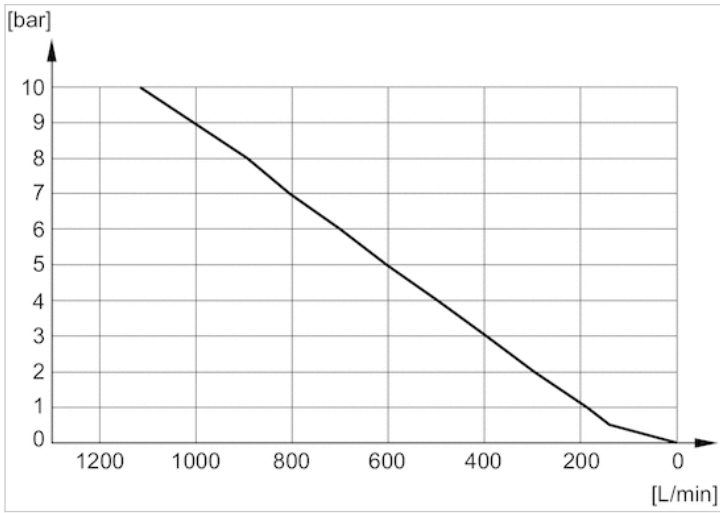
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

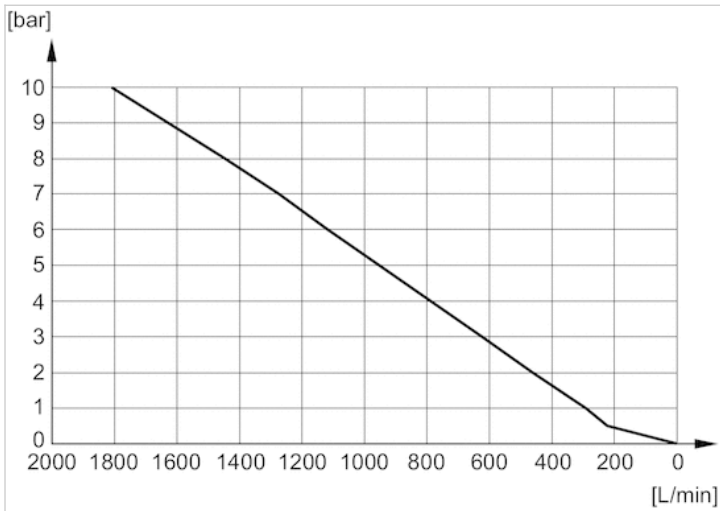
Flow diagram, 1827000032



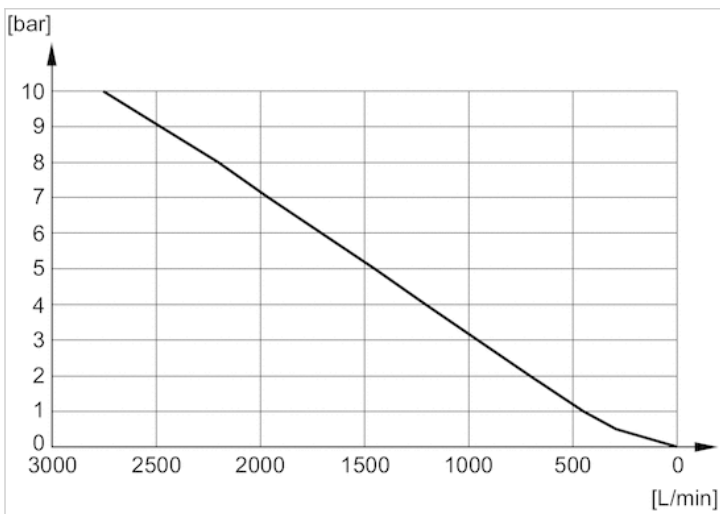
Flow diagram, 1827000031



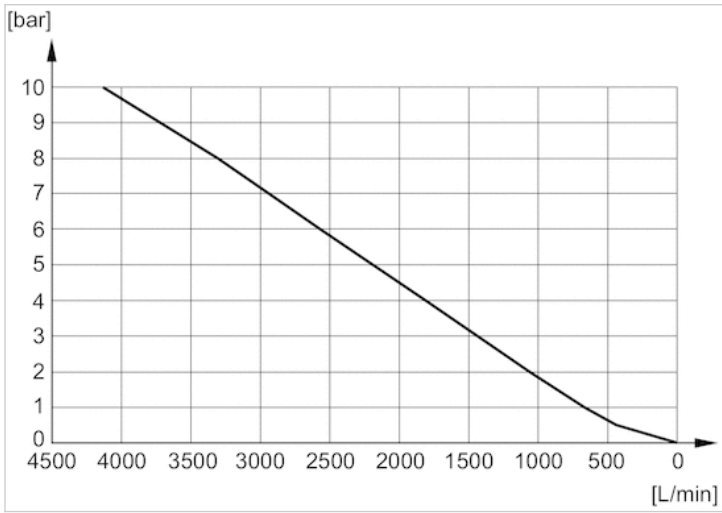
Flow diagram, 1827000033



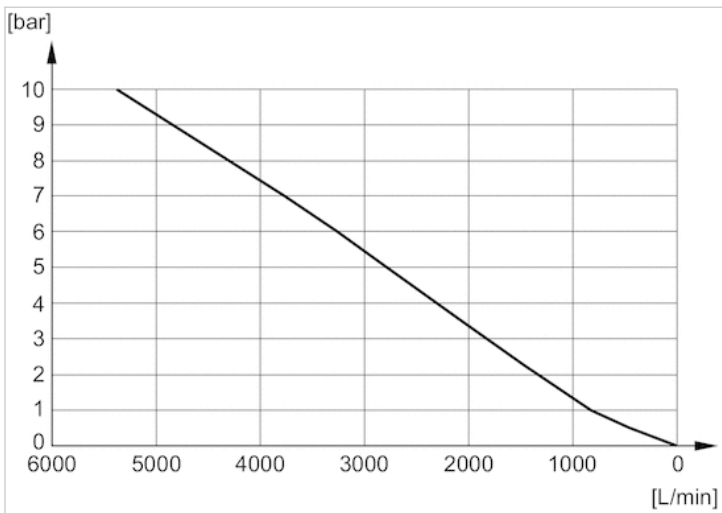
Flow diagram, 1827000034



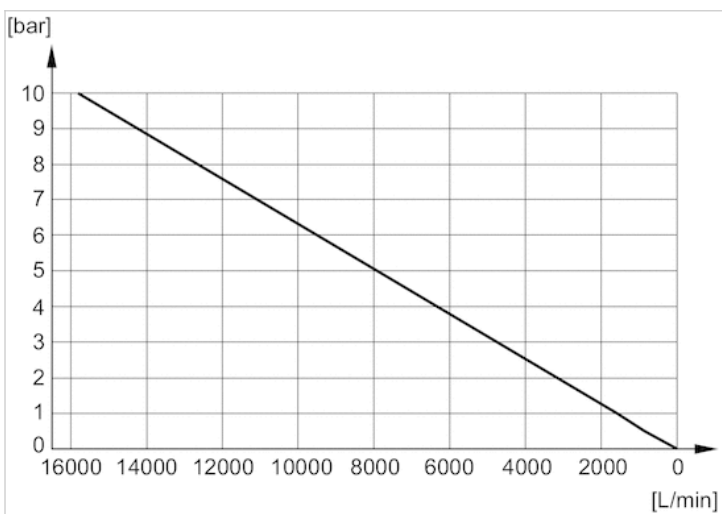
Flow diagram, 1827000035



Flow diagram, 8145003400



Flow diagram, 8145001000

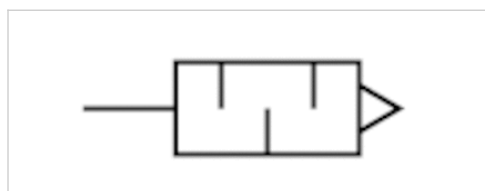


Silencers, series SI1

- G 1/2
- Polyethylene



| | |
|-------------------------------|----------------|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Sound pressure level | 88 dB |
| Weight | 0.013 kg |



Technical data

| Part No. | Compressed air connection | Flow | Delivery unit |
|------------|---------------------------|------------|---------------|
| | | Qn | |
| 1827000022 | G 1/2 | 7142 l/min | 1 piece |

Weight per piece

Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

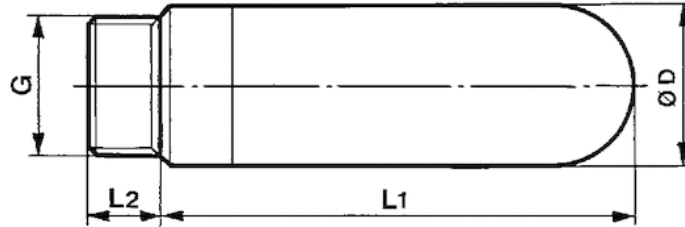
Flow characteristic curves can be found under "Diagrams".

Technical information

| Material | |
|----------|--------------|
| Silencer | Polyethylene |
| Thread | Polyethylene |

Dimensions

Dimensions

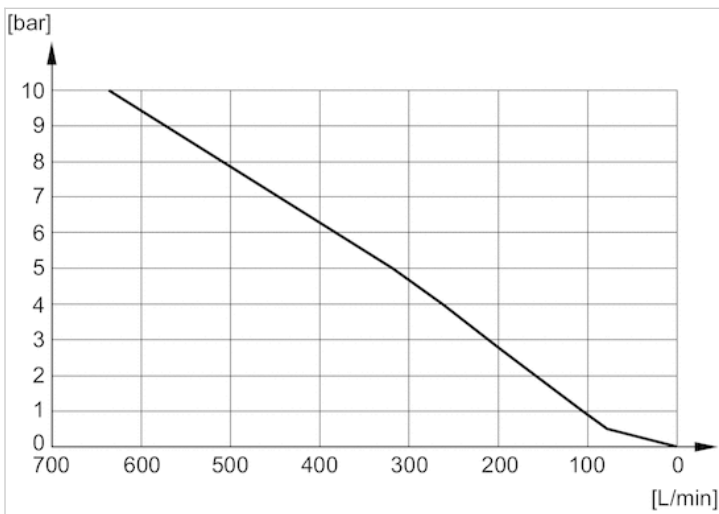


Dimensions

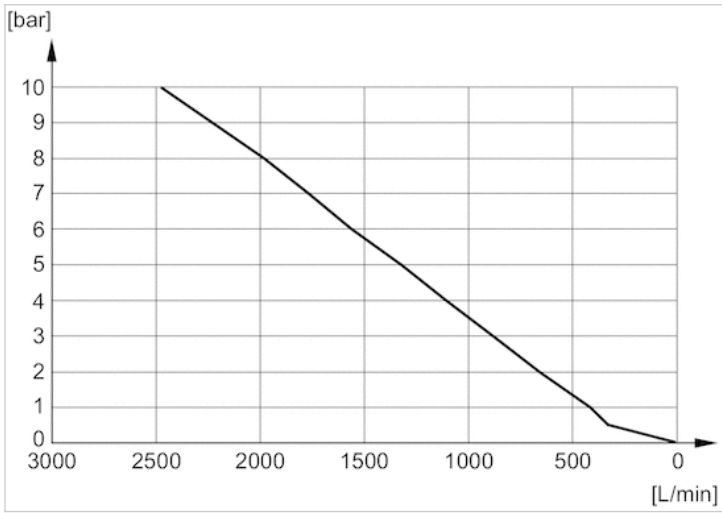
| Part No. | Port G | $\varnothing D$ | L1 | L2 |
|------------|--------|-----------------|------|----|
| 1827000022 | G 1/2 | 23.3 | 66.5 | 11 |

Diagrams

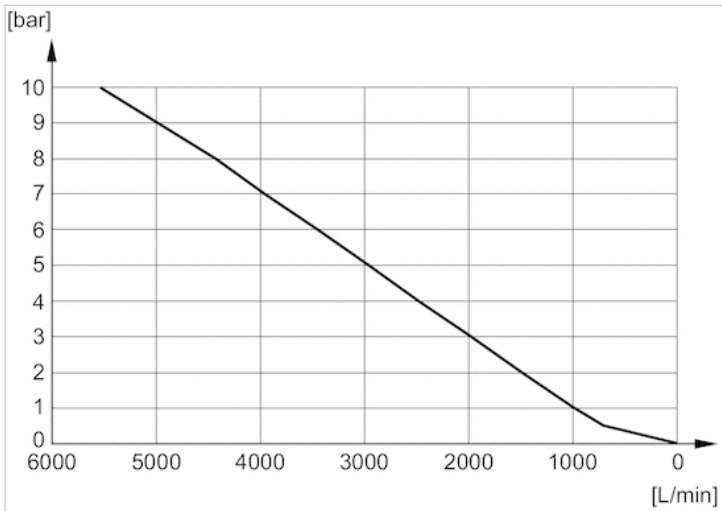
Flow diagram, 1827000018



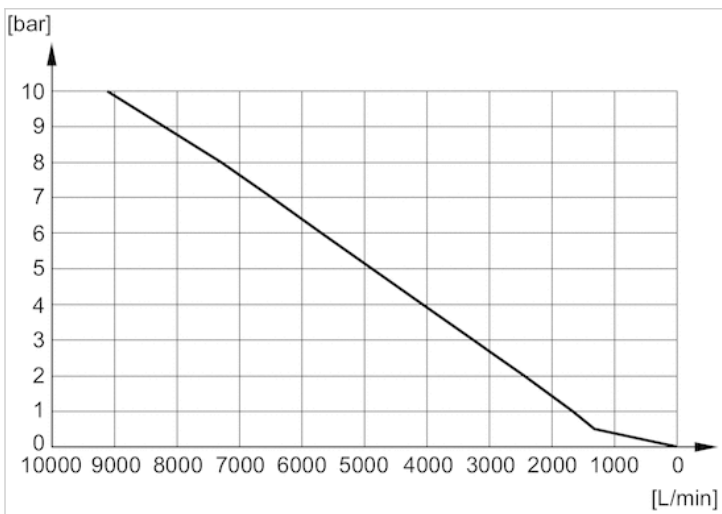
Flow diagram, 1827000019



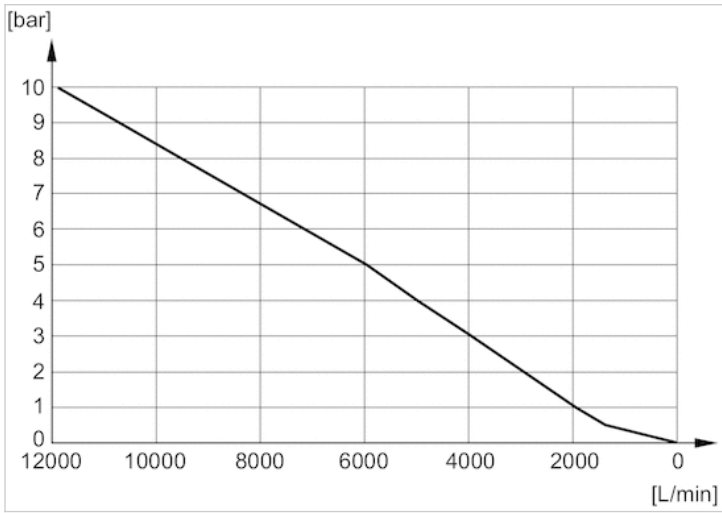
Flow diagram, 1827000020



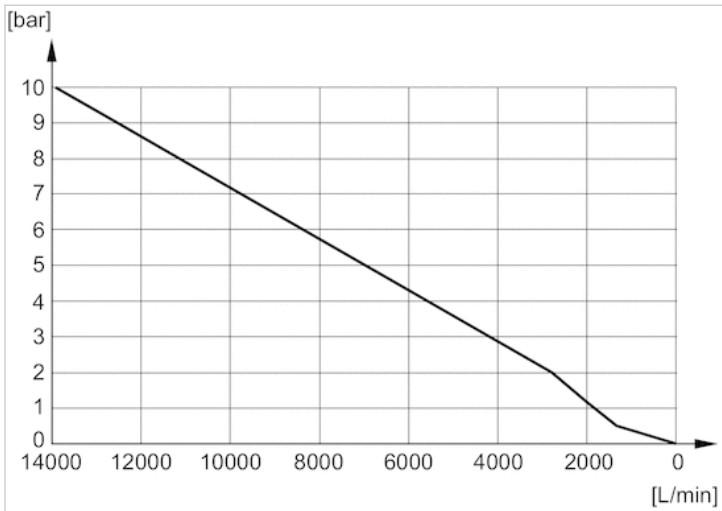
Flow diagram, 1827000021



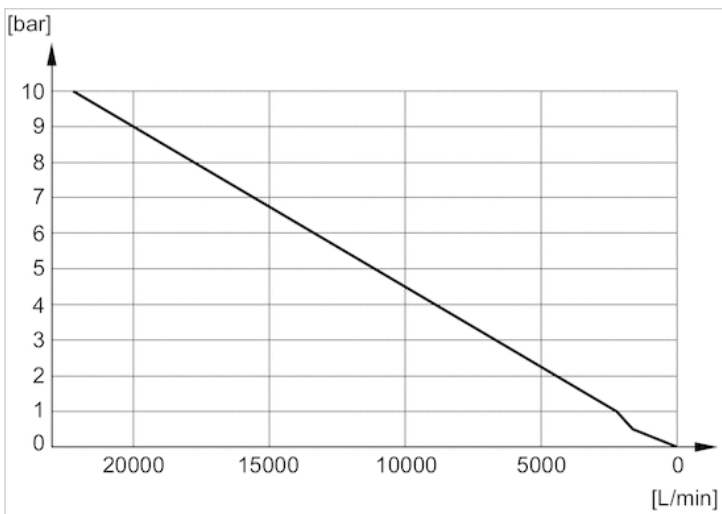
Flow diagram, 1827000022



Flow diagram, 1827000023



Flow diagram, 1827000024



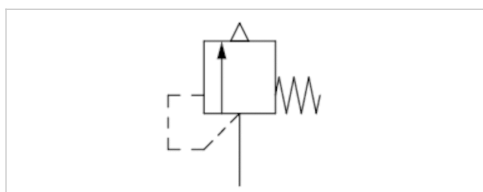
Series RV1

- Qn 1►2 = 676-16037 l/min
- thread-in
- External thread
- G 1/4 G 3/8 G 1/2
- Uncollected



Version
 Certificates
 Working pressure min./max.
 Opening pressure of valve
 Ambient temperature min./max.
 Medium

Poppet valve
 CE declaration of conformity
 0 ... 20 bar
 See table below
 -20 ... 100 °C
 Compressed air



Technical data

| Part No. | Port 1 | Opening pressure of valve | Flow |
|------------|--------|---------------------------|------------|
| | | | Qn 1►2 |
| R412007521 | G 1/4 | 0.8 bar | 676 l/min |
| R412007522 | G 1/4 | 1.5 bar | 996 l/min |
| R412007523 | G 1/4 | 2 bar | 1219 l/min |
| R412007524 | G 1/4 | 3.5 bar | 1872 l/min |
| R412007525 | G 1/4 | 4 bar | 2084 l/min |
| R412007526 | G 1/4 | 4.8 bar | 2424 l/min |
| R412007527 | G 1/4 | 6 bar | 2933 l/min |
| R412007528 | G 1/4 | 8 bar | 3783 l/min |
| R412007529 | G 1/4 | 10 bar | 4632 l/min |
| R412007530 | G 1/4 | 11 bar | 5056 l/min |
| R412007531 | G 1/4 | 15 bar | 6755 l/min |
| R412007532 | G 1/4 | 16 bar | 7179 l/min |
| R412007533 | G 3/8 | 2 bar | 2194 l/min |
| R412007534 | G 3/8 | 3.7 bar | 3567 l/min |
| R412007535 | G 3/8 | 4 bar | 3799 l/min |
| R412007721 | G 3/8 | 5 bar | 4573 l/min |
| R412007536 | G 3/8 | 6 bar | 5347 l/min |
| R412007537 | G 3/8 | 6.8 bar | 5966 l/min |
| R412007538 | G 3/8 | 8 bar | 6895 l/min |
| R412007539 | G 3/8 | 10 bar | 8443 l/min |

| Part No. | Port 1 | Opening pressure of valve | Flow |
|------------|--------|---------------------------|-------------|
| | | | Qn 1►2 |
| R412007540 | G 3/8 | 11 bar | 9217 l/min |
| R412007541 | G 3/8 | 16 bar | 13087 l/min |
| R412007542 | G 1/2 | 0.4 bar | 1115 l/min |
| R412007720 | G 1/2 | 2.9 bar | 3613 l/min |
| R412007690 | G 1/2 | 3.5 bar | 4182 l/min |
| R412007691 | G 1/2 | 4 bar | 4656 l/min |
| R412007692 | G 1/2 | 5 bar | 5604 l/min |
| R412007699 | G 1/2 | 5.5 bar | 6142 l/min |
| R412007696 | G 1/2 | 6 bar | 6553 l/min |
| R412007702 | G 1/2 | 6.5 bar | 7101 l/min |
| R412007698 | G 1/2 | 7 bar | 7501 l/min |
| R412007697 | G 1/2 | 8 bar | 8449 l/min |
| R412007693 | G 1/2 | 8.5 bar | 9018 l/min |
| R412007694 | G 1/2 | 9 bar | 9398 l/min |
| R412007700 | G 1/2 | 10 bar | 10346 l/min |
| R412007701 | G 1/2 | 10.5 bar | 10934 l/min |
| R412007695 | G 1/2 | 11 bar | 11295 l/min |
| R412007703 | G 1/2 | 12 bar | 12243 l/min |
| R412007543 | G 1/2 | 16 bar | 16037 l/min |

Technical information

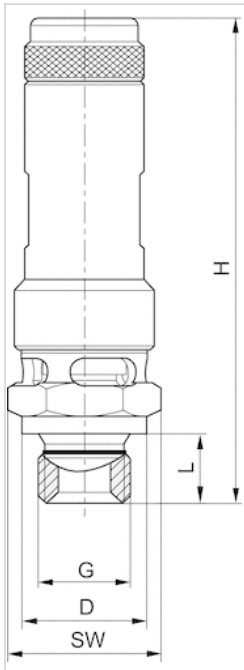
The specified performance values are achieved at a 10% (PE 1 bar , 0.1 bar) pressure increase, measured with compressed air at 20 °C .

Technical information

| Material | |
|----------|------------------|
| Housing | Brass |
| Seals | Fluorocaoutchouc |

Dimensions

Dimensions



G = connection 1

Dimensions

| Part No. | Port G | Ø D | H | L | SW | T [Nm] | NW |
|------------|--------|-----|----|----|----|--------|----|
| R412007521 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007522 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007523 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007524 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007525 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007526 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007527 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007528 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007529 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007530 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007531 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007532 | G 1/4 | 18 | 69 | 10 | 19 | 30 | 8 |
| R412007533 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007534 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007535 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007721 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007536 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007537 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007538 | G 3/8 | 22 | 75 | 10 | 24 | 40 | 10 |
| R412007539 | G 3/8 | 22 | 88 | 10 | 24 | 40 | 10 |
| R412007540 | G 3/8 | 22 | 88 | 10 | 24 | 40 | 10 |
| R412007541 | G 3/8 | 22 | 88 | 10 | 24 | 40 | 10 |
| R412007542 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |

| Part No. | Port G | Ø D | H | L | SW | T [Nm] | NW |
|------------|--------|-----|------|----|----|--------|----|
| R412007720 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007690 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007691 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007692 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007699 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007696 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007702 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007698 | G 1/2 | 26 | 78 | 12 | 27 | 50 | 15 |
| R412007697 | G 1/2 | 26 | 77.5 | 12 | 27 | 50 | 15 |
| R412007693 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |
| R412007694 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |
| R412007700 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |
| R412007701 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |
| R412007695 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |
| R412007703 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |
| R412007543 | G 1/2 | 26 | 91 | 12 | 27 | 50 | 15 |

T = maximum torque

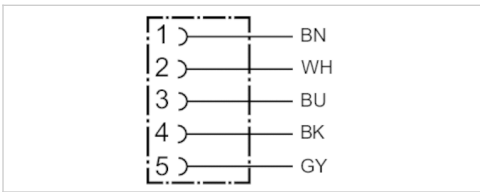
NW = nominal width

Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded angled 90°
- open cable ends
- with cable
- shielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -25 ... 80 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Wire cross-section | 0.34 mm ² |
| Weight | See table below |



Technical data

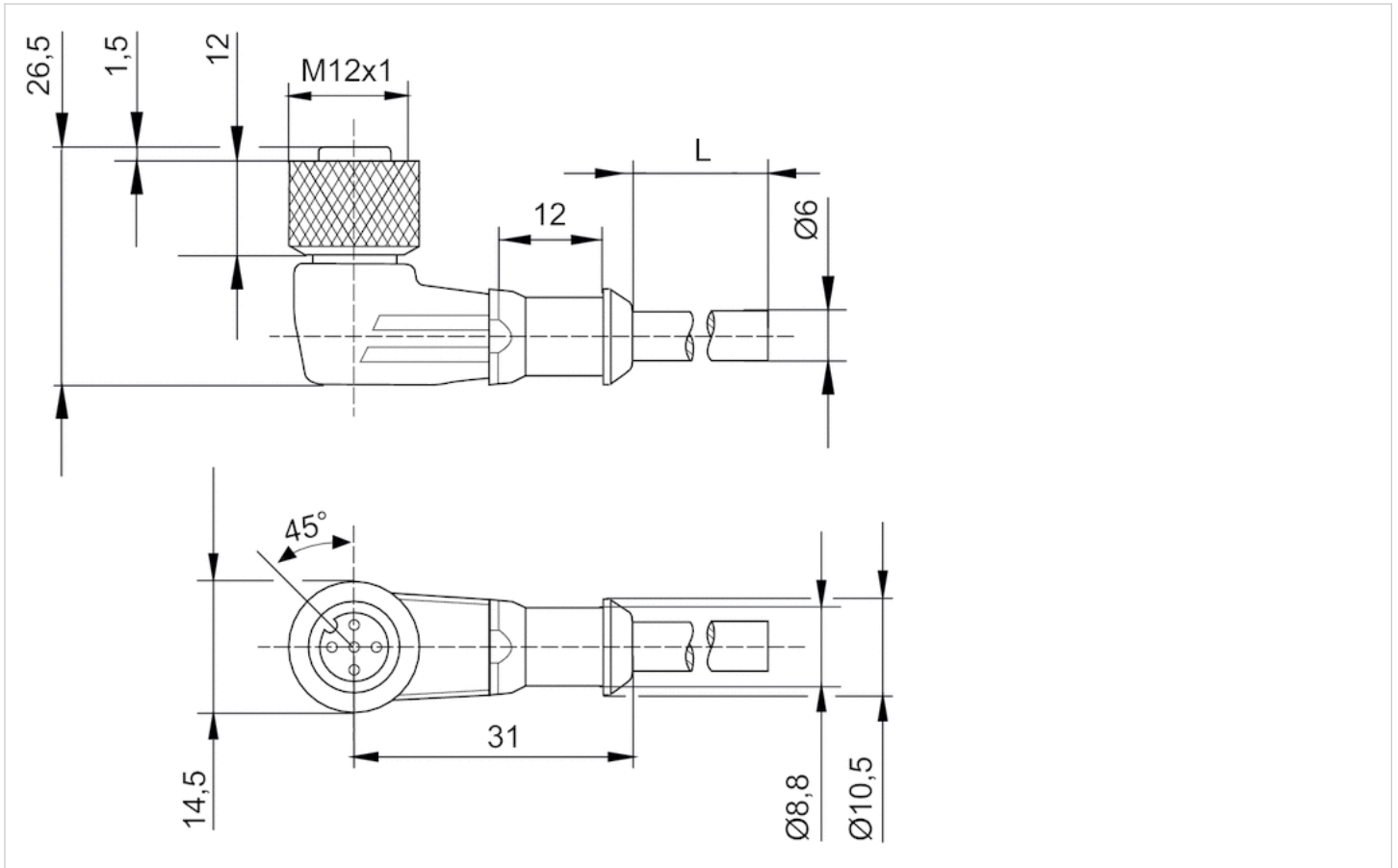
| Part No. | Max. current | Number of wires | Cable-Ø | Cable length | Weight |
|------------|--------------|-----------------|---------|--------------|----------|
| R419800109 | 4 A | 5 | 6 mm | 2.5 m | 0.145 kg |
| R419800110 | 4 A | 5 | 6 mm | 5 m | 0.27 kg |
| R419800546 | 4 A | 5 | 6 mm | 10 m | 0.514 kg |

Technical information

| Material | |
|--------------|-------------------------|
| Housing | Thermoplastic elastomer |
| Cable sheath | Polyurethane |

Dimensions

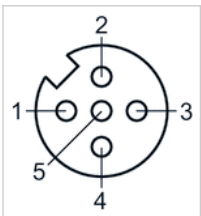
Dimensions



L = length

Pin assignments

Pin assignment, socket



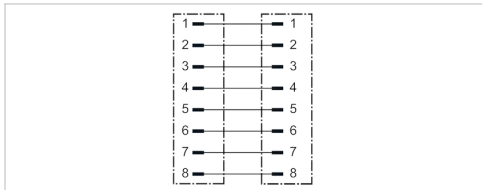
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) GY=grey

Round plug connectors with cable, Series CON-RD

- Plug M12x1 8-pin X-coded angled 90°
- Plug RJ45 8-pin X-coded straight
- shielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -25 ... 85 °C |
| Protection class | IP66K |
| Wire cross-section | 0.14 mm ² |



Technical data

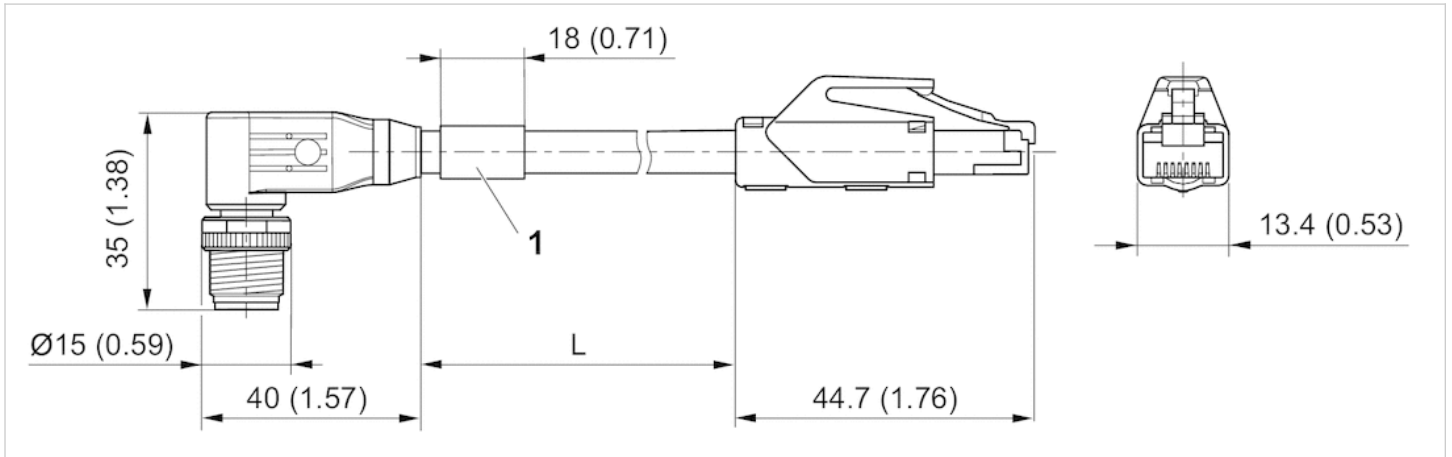
| Part No. | Max. current | Cable length |
|------------|--------------|--------------|
| R412027647 | 0.5 A | 5 m |

Technical information

| Material | |
|--------------|--------------|
| Cable sheath | Polyurethane |

Dimensions

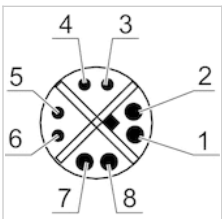
Dimensions



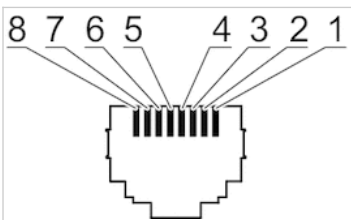
1) Name plate

Pin assignments

Plug pin assignment



Plug pin assignment

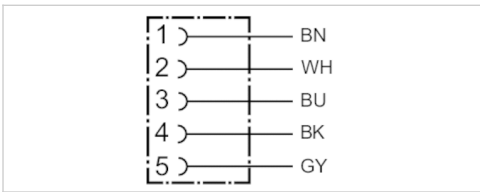


Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded angled 90°
- open cable ends
- with cable
- shielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -25 ... 80 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Wire cross-section | 0.34 mm ² |
| Weight | See table below |



Technical data

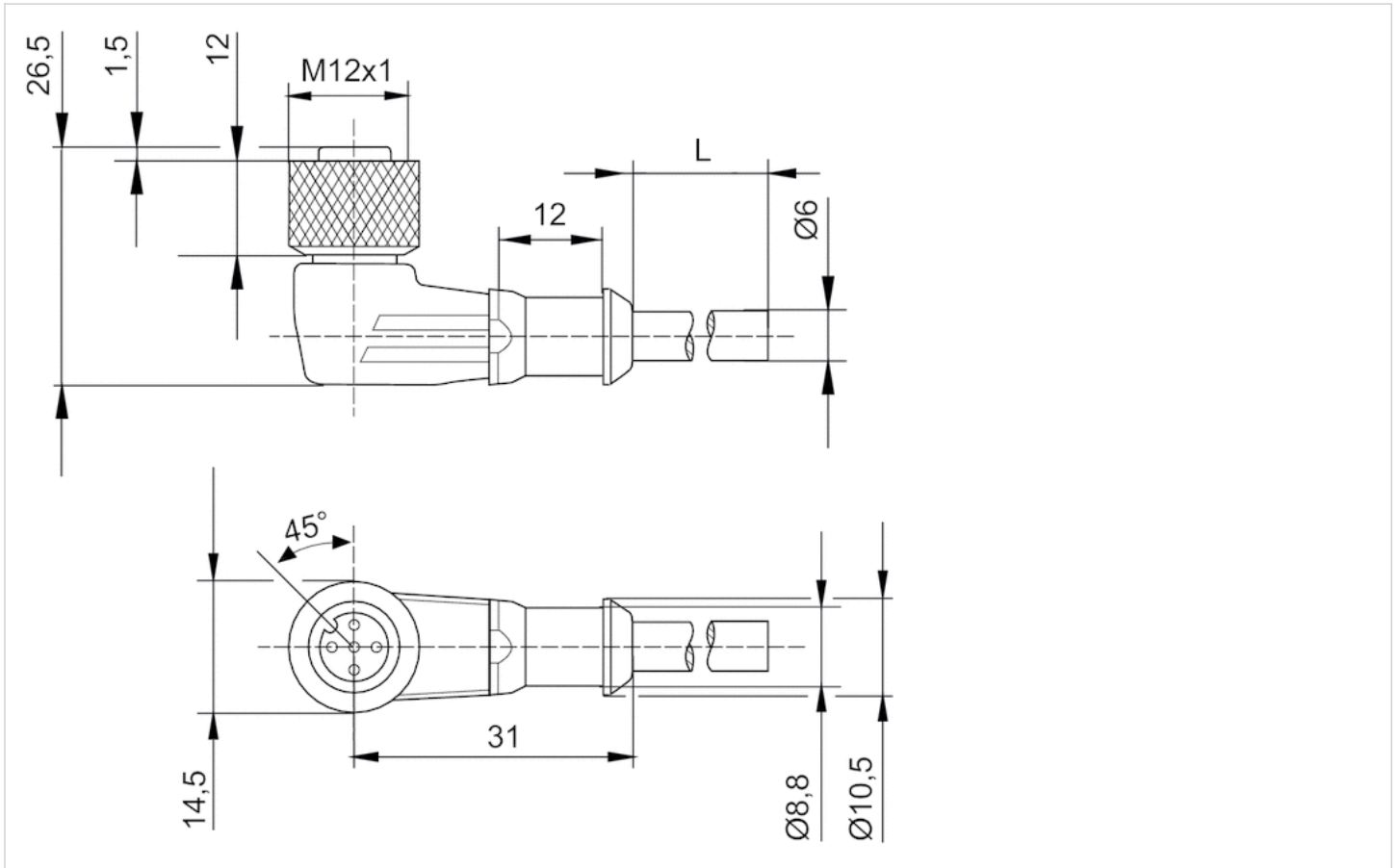
| Part No. | Max. current | Number of wires | Cable-Ø | Cable length | Weight |
|------------|--------------|-----------------|---------|--------------|----------|
| R419800109 | 4 A | 5 | 6 mm | 2.5 m | 0.145 kg |
| R419800110 | 4 A | 5 | 6 mm | 5 m | 0.27 kg |
| R419800546 | 4 A | 5 | 6 mm | 10 m | 0.514 kg |

Technical information

| Material | |
|--------------|-------------------------|
| Housing | Thermoplastic elastomer |
| Cable sheath | Polyurethane |

Dimensions

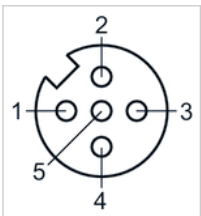
Dimensions



L = length

Pin assignments

Pin assignment, socket



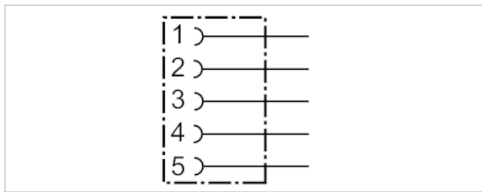
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) GY=grey

Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, angled, 90°
- for CANopen
- UL (Underwriters Laboratories)
- shielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.072 kg |



Technical data

| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 1824484029 | 4 A | 6 / 8 mm |

Technical information

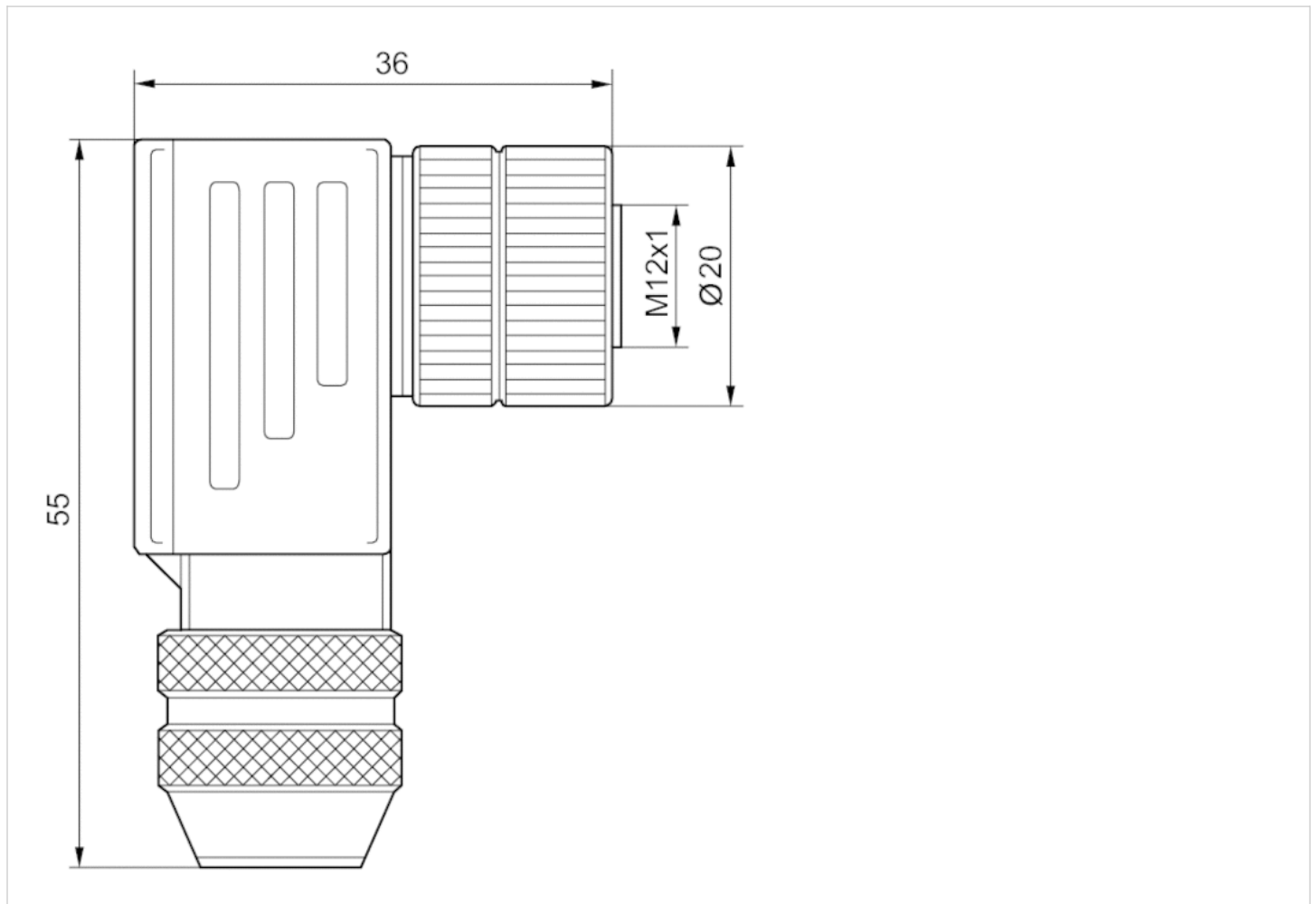
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|----------|---------------|
| Housing | Die cast zinc |

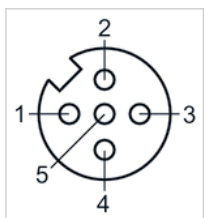
Dimensions

Dimensions



Pin assignments

Pin assignment, socket

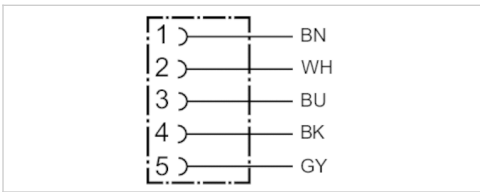


Round plug connector, Series CON-RD

- Socket M12x1 5-pin A-coded angled 90°
- open cable ends
- with cable
- shielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -25 ... 80 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Wire cross-section | 0.34 mm ² |
| Weight | See table below |



Technical data

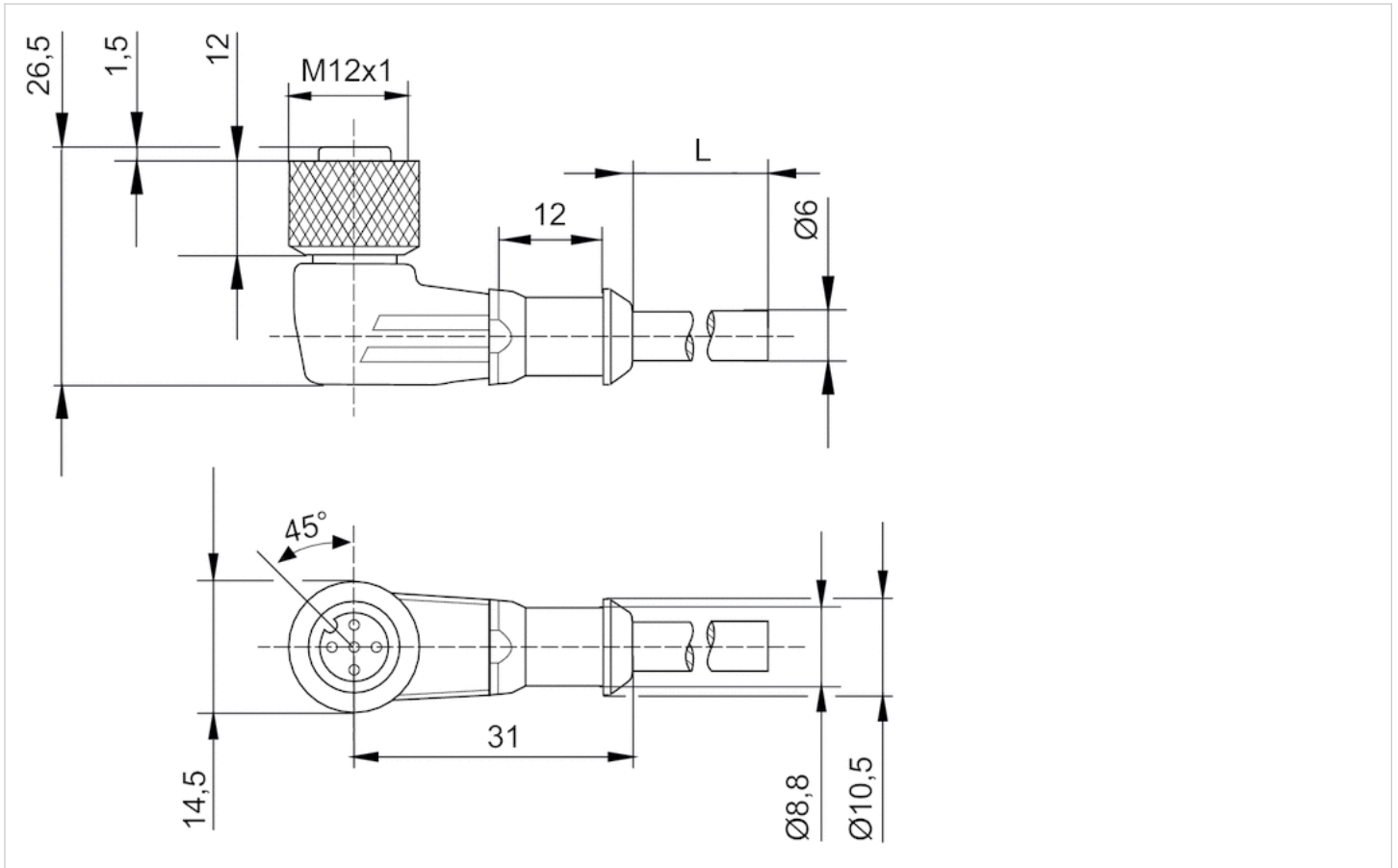
| Part No. | Max. current | Number of wires | Cable-Ø | Cable length | Weight |
|------------|--------------|-----------------|---------|--------------|----------|
| R419800109 | 4 A | 5 | 6 mm | 2.5 m | 0.145 kg |
| R419800110 | 4 A | 5 | 6 mm | 5 m | 0.27 kg |
| R419800546 | 4 A | 5 | 6 mm | 10 m | 0.514 kg |

Technical information

| Material | |
|--------------|-------------------------|
| Housing | Thermoplastic elastomer |
| Cable sheath | Polyurethane |

Dimensions

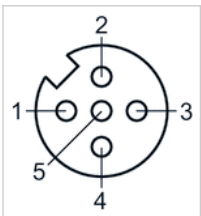
Dimensions



L = length

Pin assignments

Pin assignment, socket



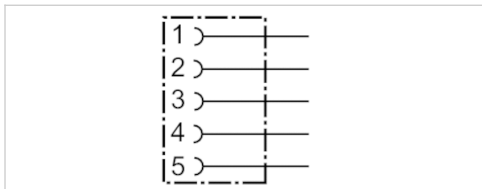
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) GY=grey

Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, straight, 180°
- for DeviceNet
- unshielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.016 kg |



Technical data

| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 4407230020 | 4 A | 4 mm |

Technical information

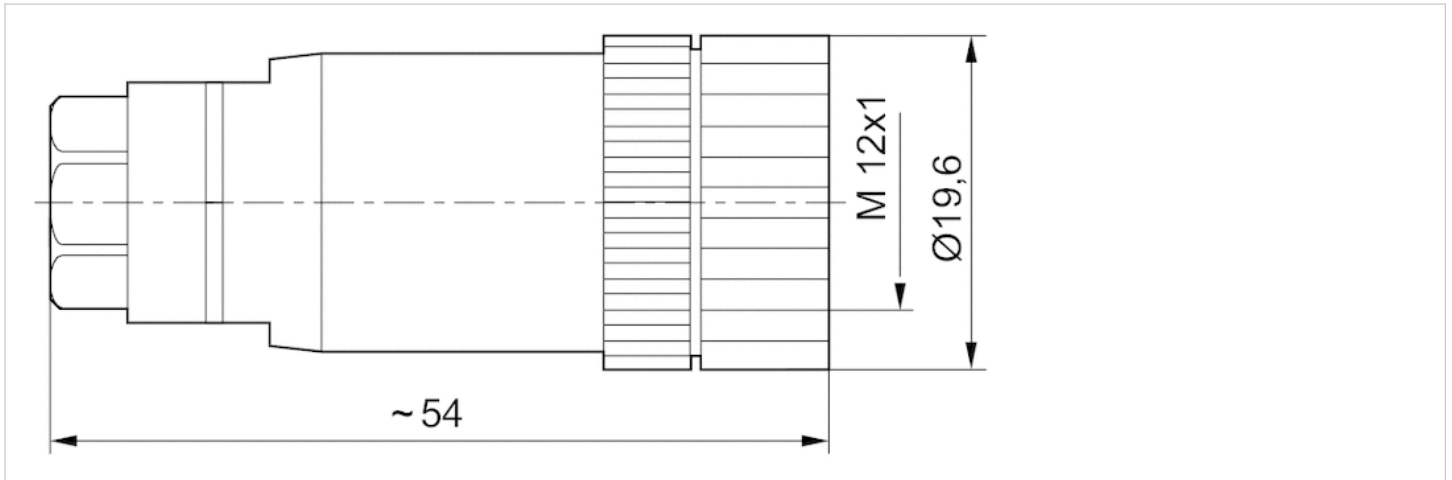
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|----------|-----------|
| Housing | Polyamide |

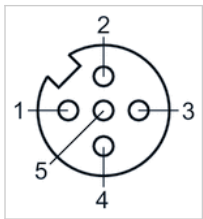
Dimensions

Dimensions



Pin assignments

Pin assignment, socket

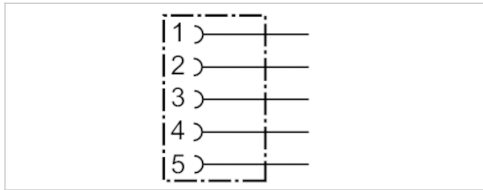


Round plug connector, Series CON-RD

- Socket, M12x1, 5-pin, A-coded, angled, 90°
- for CANopen
- UL (Underwriters Laboratories)
- shielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.072 kg |



Technical data

| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 1824484029 | 4 A | 6 / 8 mm |

Technical information

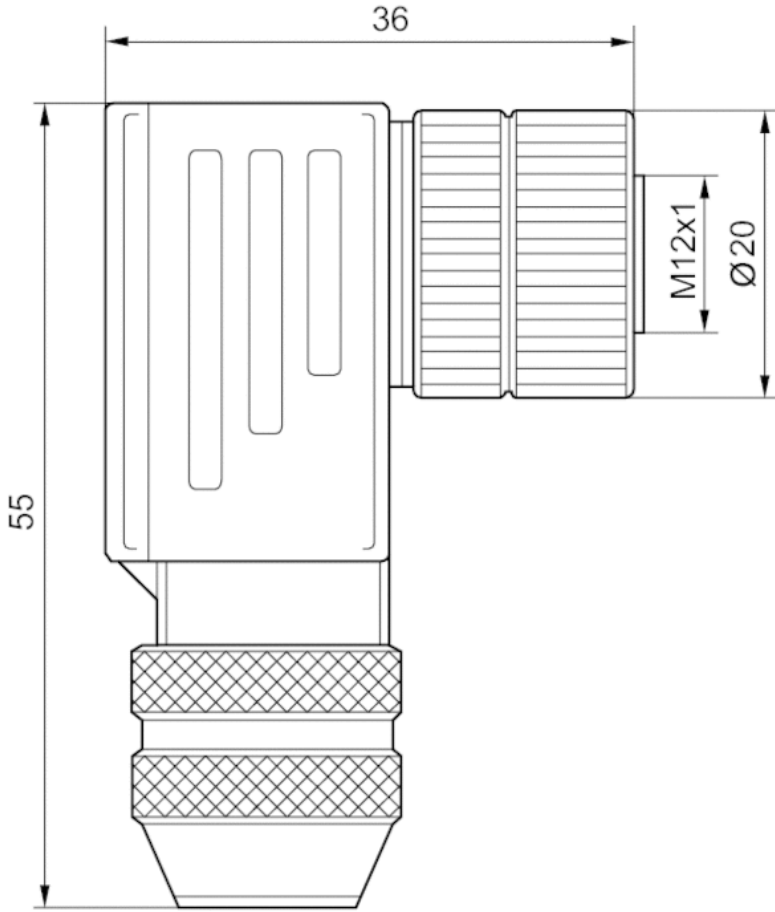
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|----------|---------------|
| Housing | Die cast zinc |

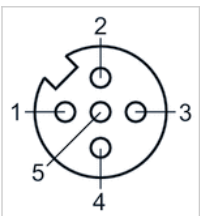
Dimensions

Dimensions



Pin assignments

Pin assignment, socket



Round plug connector, Series CON-RD

- Plug M12x1 5-pin A-coded straight 180°
- open cable ends 5-pin
- with cable
- unshielded

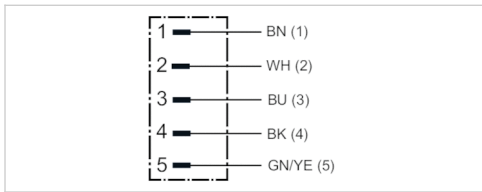


Protection class
Weight

IP68

See table below

The delivered product may vary from that in the illustration.



Technical data

| Part No. | Number of wires | Cable length | Weight |
|------------|-----------------|--------------|----------|
| 8946203432 | 5 | 2 m | 0.102 kg |
| 8946203442 | 5 | 5 m | 0.238 kg |

with self-clinching screw

Technical information

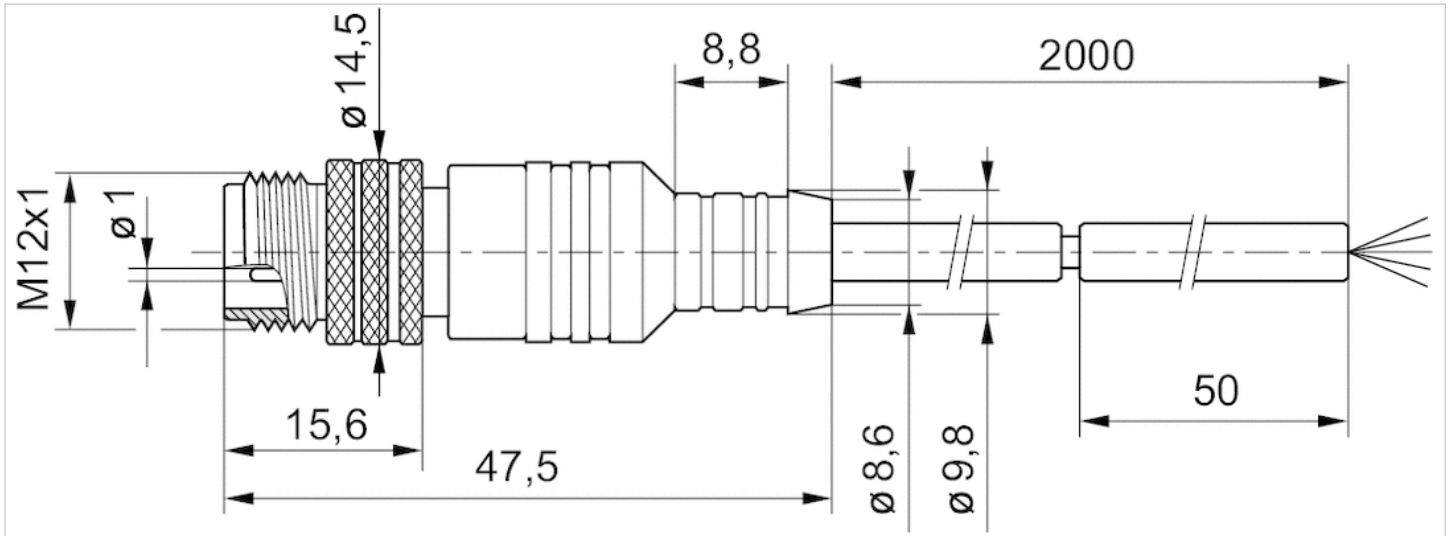
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|--------------|--------------------|
| Cable sheath | Polyvinyl chloride |

Dimensions

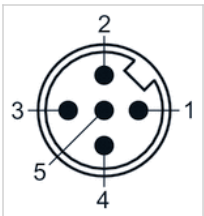
Dimensions



L = length

Pin assignments

Plug pin assignment



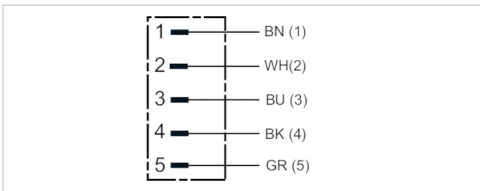
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) GRN-Y=green-yellow

Round plug connector, Series CON-RD

- Plug M12x1 5-pin A-coded angled 90°
- open cable ends 5-pin
- with cable
- suitable for dynamic laying
- unshielded



| | |
|----------------------------------|----------------------|
| Ambient temperature min./max. | See table below |
| Operational voltage | 48 V AC/DC |
| Protection class | IP68 |
| Wire cross-section | 0.34 mm ² |
| Mounting screw tightening torque | 0.8 Nm |
| Weight | See table below |



Technical data

| Part No. | Ambient temperature min./max. | Max. current | Number of wires | Bending radius min. | Cable-Ø | Cable length |
|------------|-------------------------------|--------------|-----------------|---------------------|---------|--------------|
| R412021691 | -40 ... 85 °C | 4 A | 5 | 50 mm | 5 mm | 2 m |
| R412021692 | -40 ... 85 °C | 4 A | 5 | 50 mm | 5 mm | 5 m |
| R412021693 | -25 ... 85 °C | 4 A | 5 | 50 mm | 5 mm | 10 m |

| Part No. | Weight |
|------------|----------|
| R412021691 | 0.093 kg |
| R412021692 | 0.2 kg |
| R412021693 | 0.381 kg |

suitable for dynamic laying

Technical information

The specified protection class is only valid in assembled and tested state.

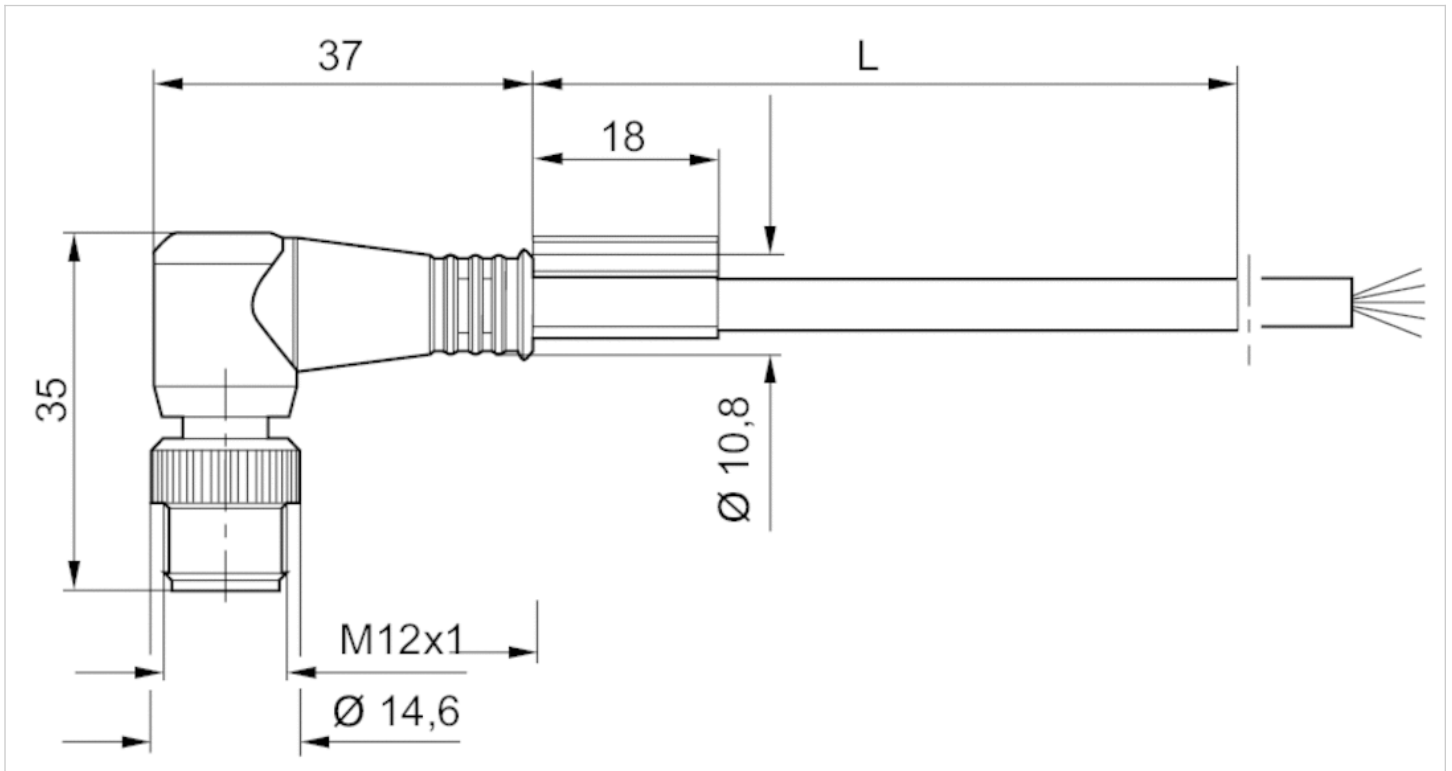
Technical information

Material

| | |
|--------------|--------------|
| Housing | Polyurethane |
| Cable sheath | Polyurethane |

Dimensions

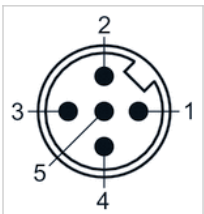
Dimensions



L = length

Pin assignments

Plug pin assignment



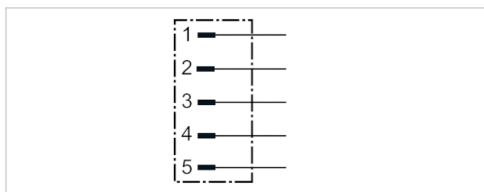
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) GY=grey

Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, straight, 180°
- for CANopen, DeviceNet
- UL (Underwriters Laboratories)
- shielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.48 kg |



Technical data

| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 8942051612 | 4 A | 6 / 8 mm |

Technical information

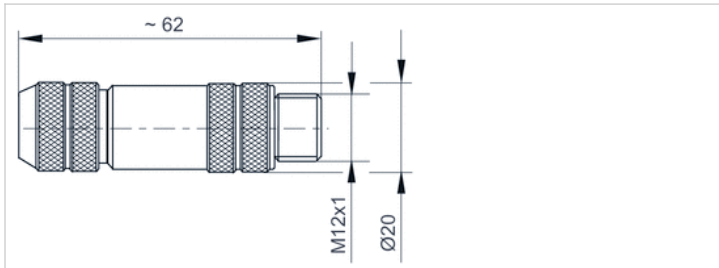
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|----------|----------------------|
| Housing | Brass, nickel-plated |

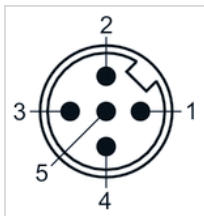
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Round plug connector, Series CON-RD

- Plug, M12x1, 5-pin, A-coded, angled, 90°
- for CANopen
- UL (Underwriters Laboratories)
- shielded



| | |
|-------------------------------|---------------|
| Connection type | Screws |
| Ambient temperature min./max. | -40 ... 85 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Weight | 0.068 kg |



Technical data

| Part No. | Max. current | suitable cable-Ø min./max |
|------------|--------------|---------------------------|
| 1824484028 | 4 A | 6 / 8 mm |

Technical information

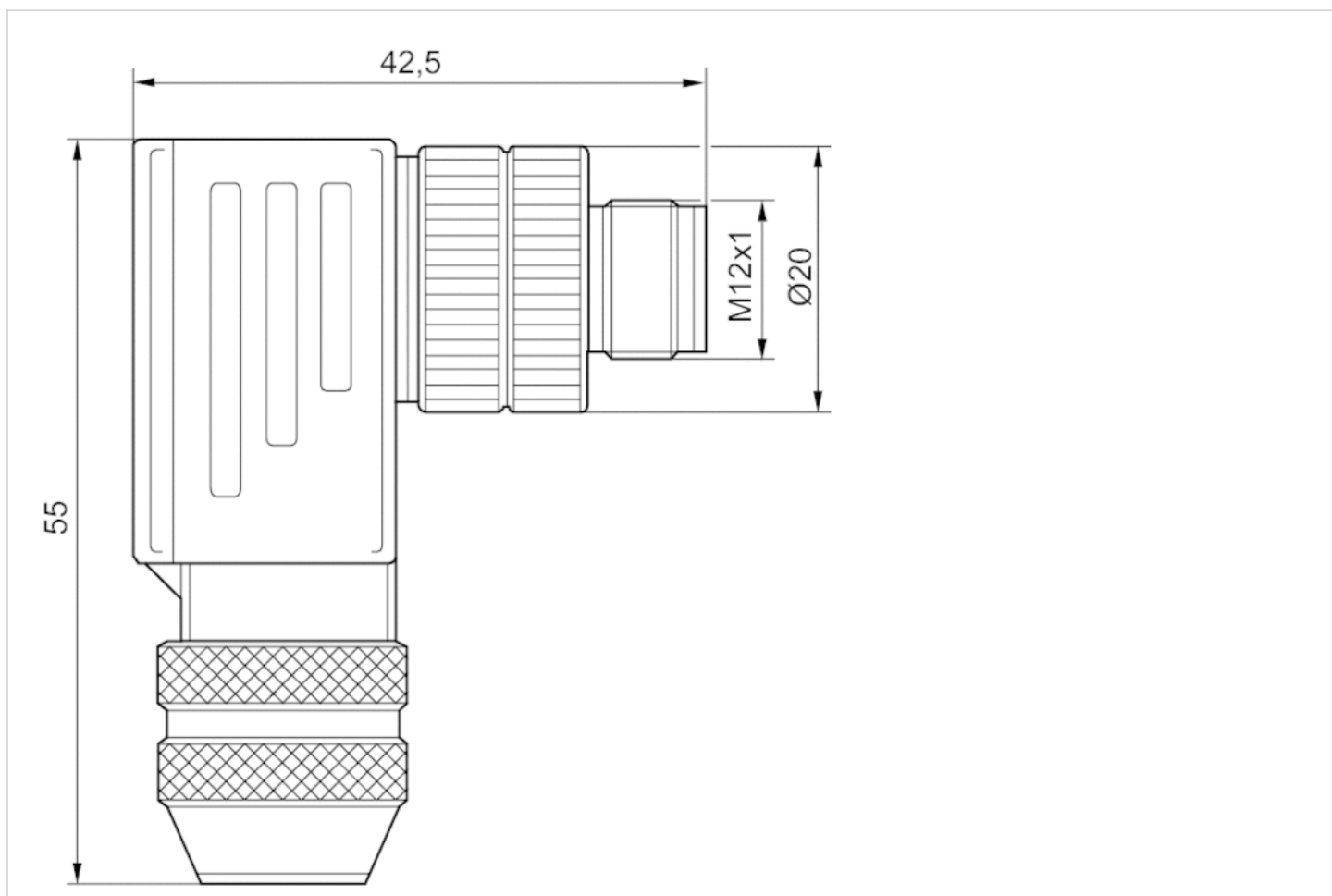
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|----------|----------------------|
| Housing | Brass, nickel-plated |

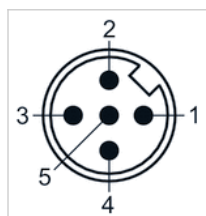
Dimensions

Dimensions



Pin assignments

Plug pin assignment



Mounting clip, Series AS3-MBR-...-W03, Aluminum



Ambient temperature min./max.

-10 ... 50 °C

Weight

0.133 kg

Technical data

Part No.

R412026828

Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

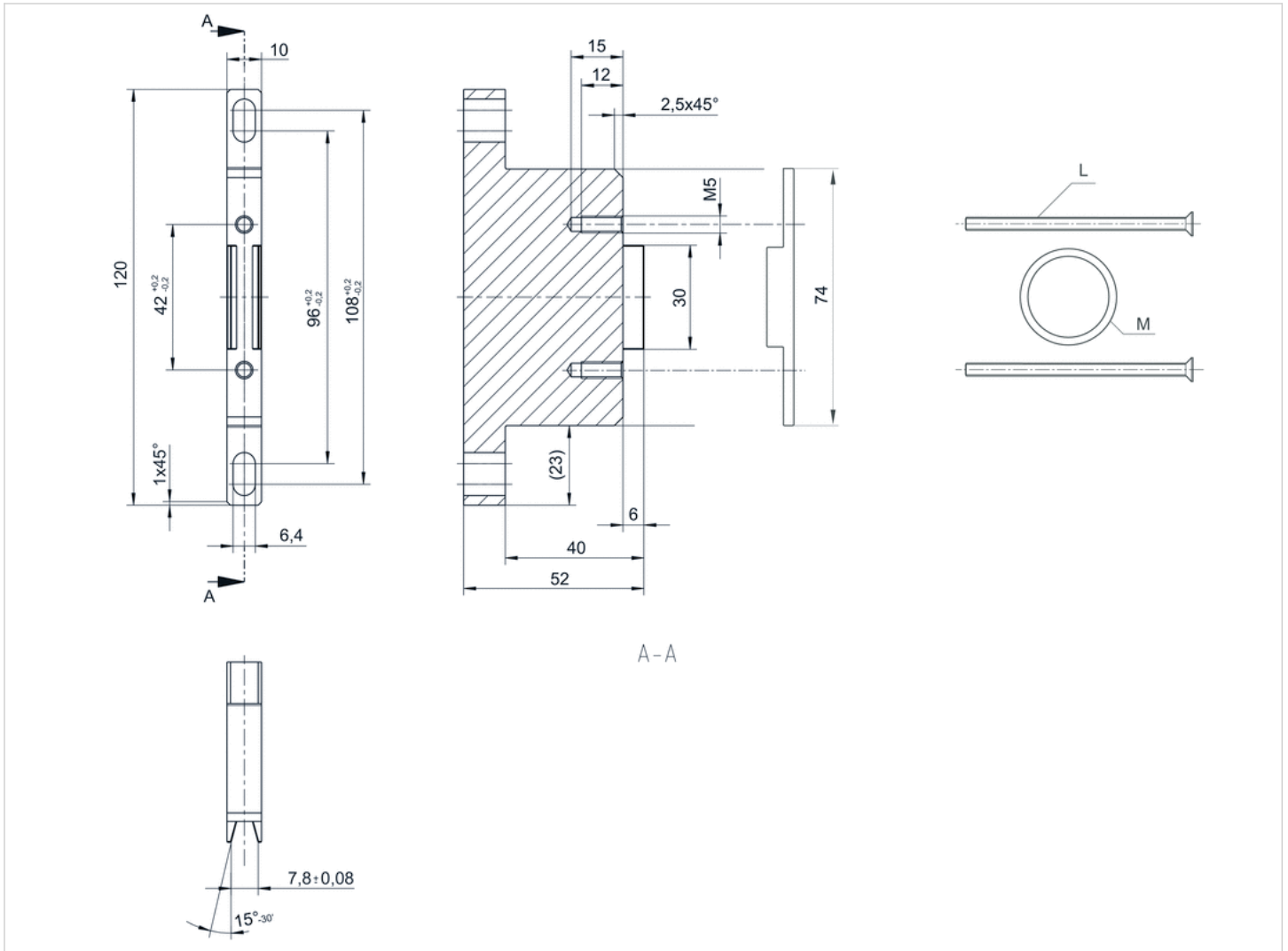
Technical information

Material

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



L = Mounting screw
 M = O-ring

Silencers, series SI1

- G 1

- Metal braiding



Working pressure min./max.

0 ... 15 bar

Ambient temperature min./max.

-10 ... 150 °C

Medium

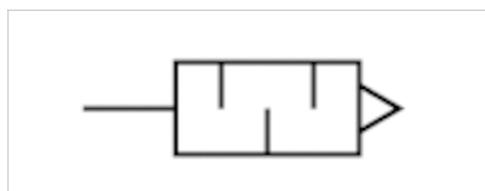
Compressed air

Sound pressure level

104 dB

Comment

Flow characteristic curves can be found under "Diagrams".



Technical data

| Part No. | Compressed air connection | Flow | Delivery unit |
|------------|---------------------------|-------------|---------------|
| | | Qn | |
| R412010249 | G 1 | 10642 l/min | 2 piece |

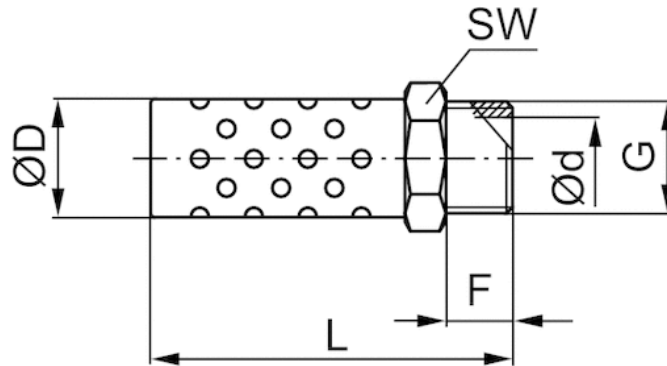
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

| Material | |
|----------|----------------|
| Silencer | Metal braiding |
| Thread | Aluminum |

Dimensions

Dimensions



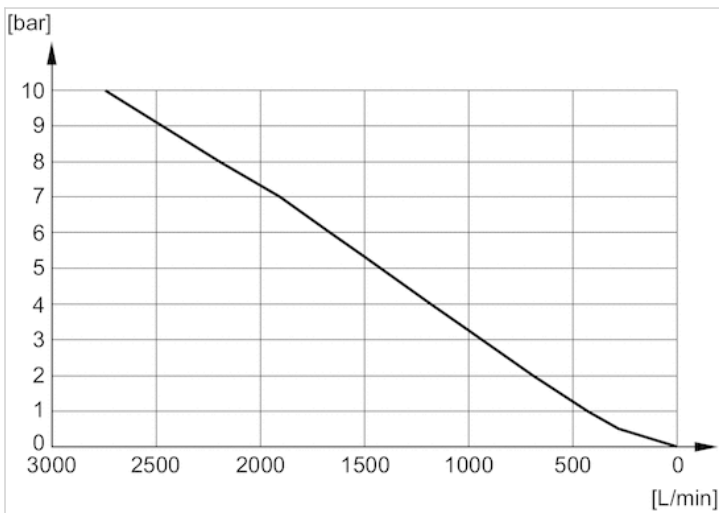
Dimensions

| Part No. | Port G | L | F | D | d | SW |
|------------|--------|----|------|------|----|----|
| R412010249 | G 1 | 91 | 15.5 | 32.3 | 26 | 34 |

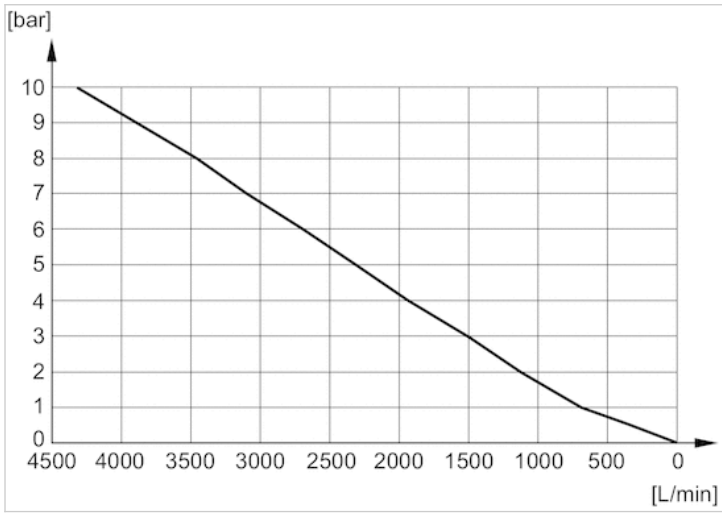
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

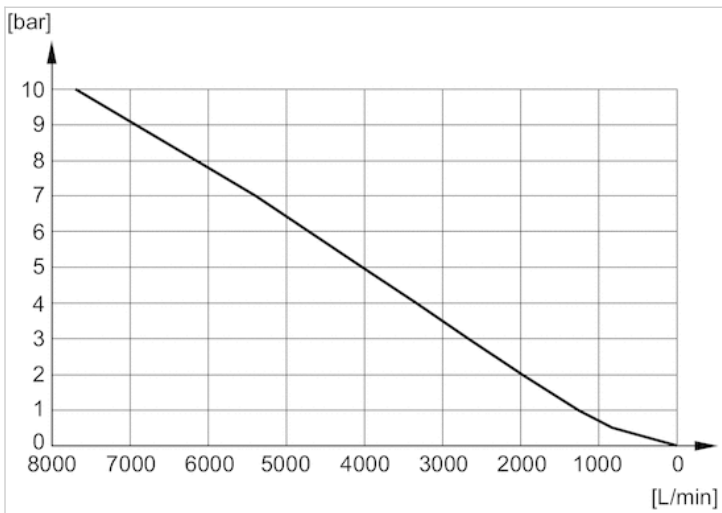
Flow diagram, R412010283



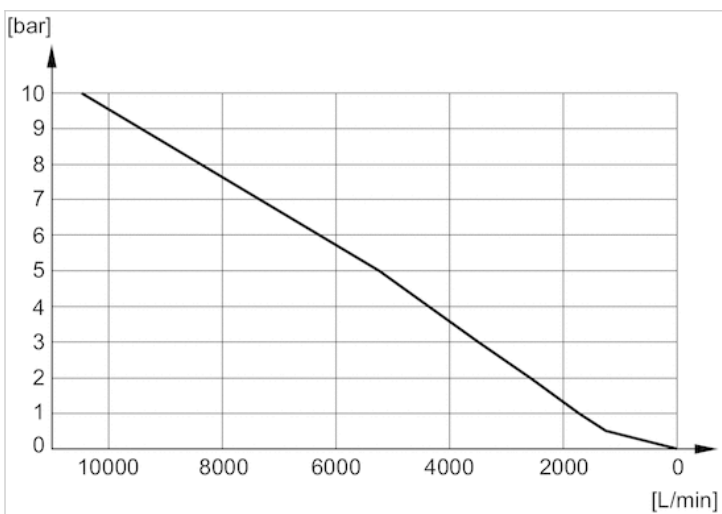
Flow diagram, R412010245



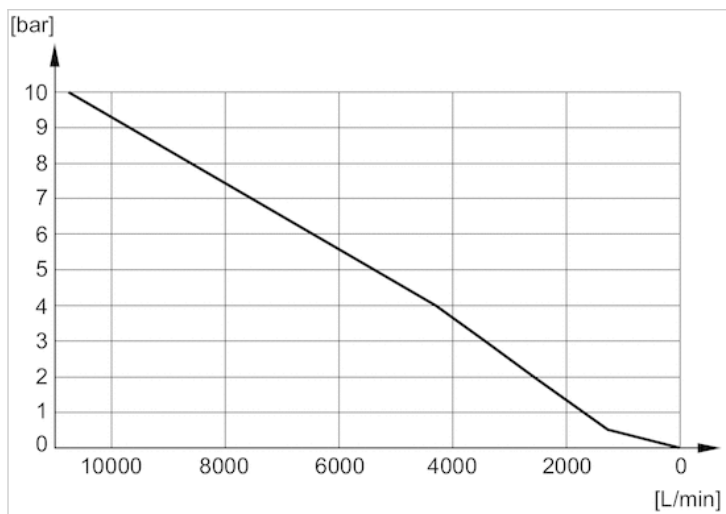
Flow diagram, R412010246



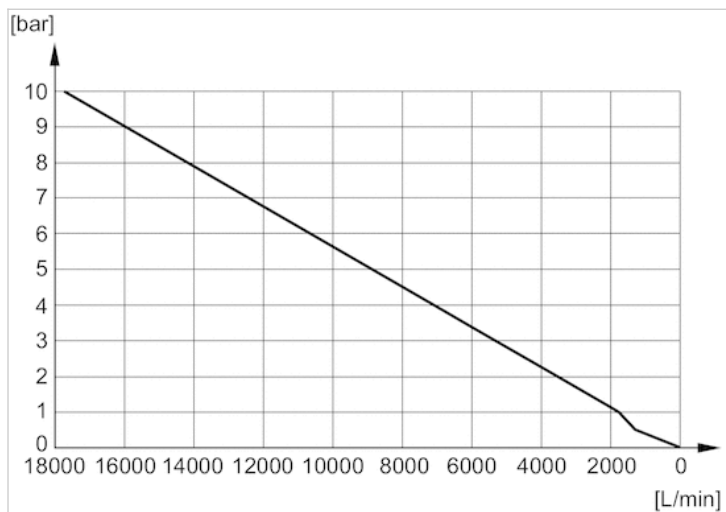
Flow diagram, R412010247



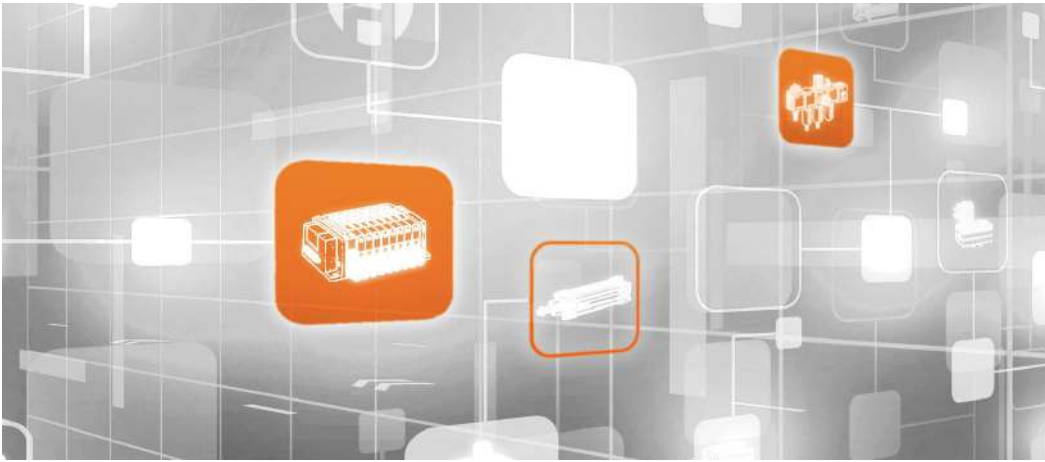
Flow diagram, R412010248



Flow diagram, R412010249



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