Series AS3



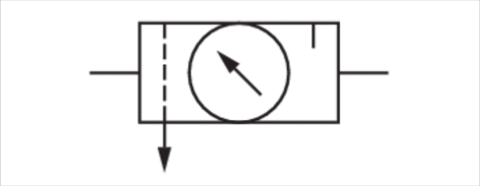
AVENTICS™ Series AS3

EMERSON.

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 with relieving air exhaust
Regulator function Adjustment range min./max. Pressure supply	0.5 ... 8 bar
Filter reservoir volume	single
Filter element	49 cm³
Lubricator reservoir volume	exchangeable
Type of filling	80 cm³
	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 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.

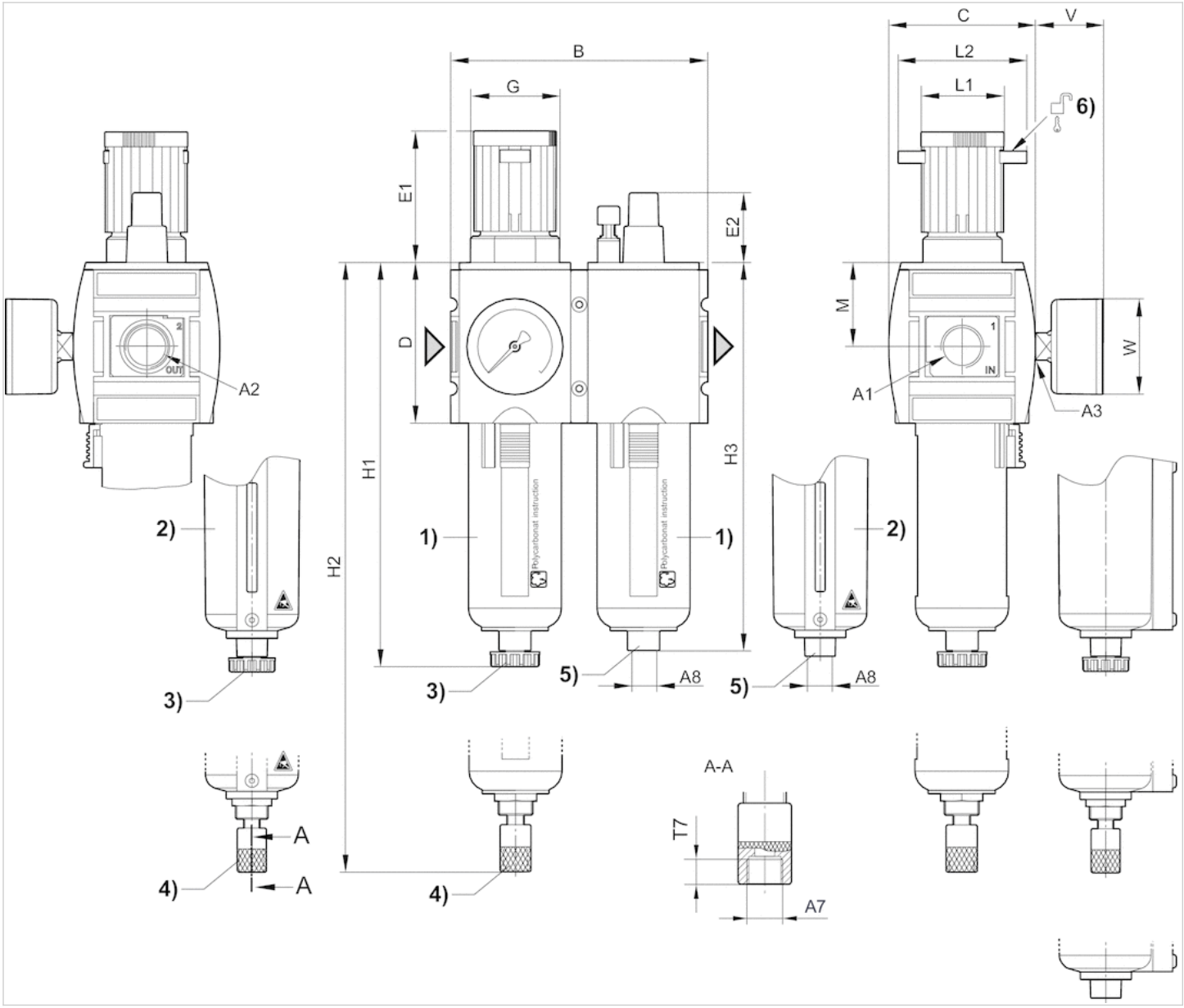
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

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



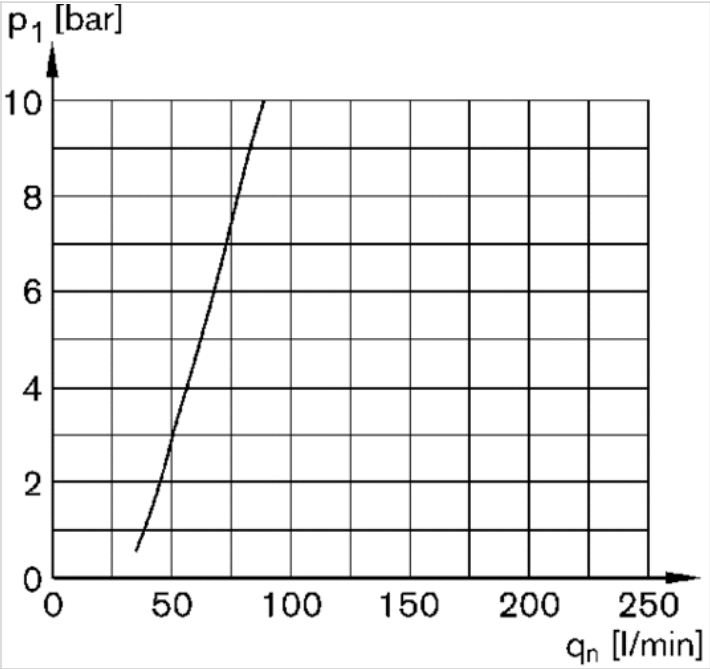
A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) Port for semi-automatic oil filling 6) Mounting option for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

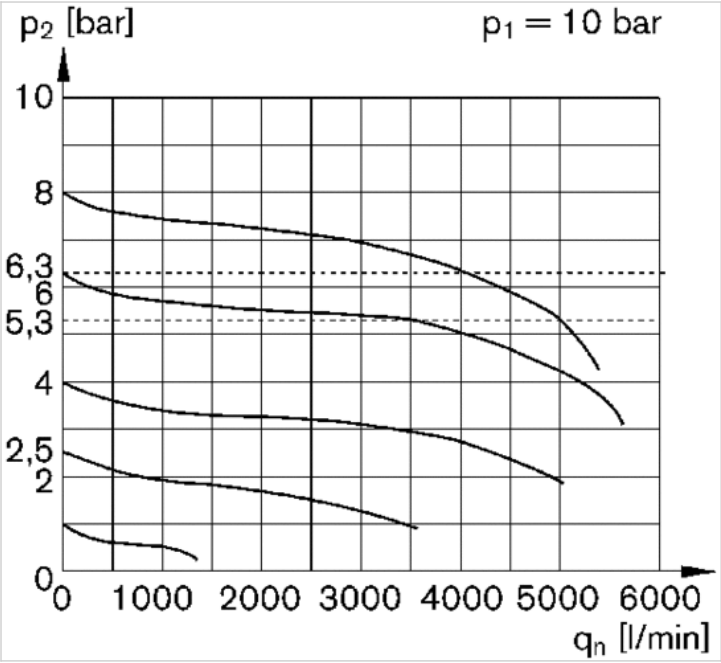
Diagrams

Lubricator activation margin



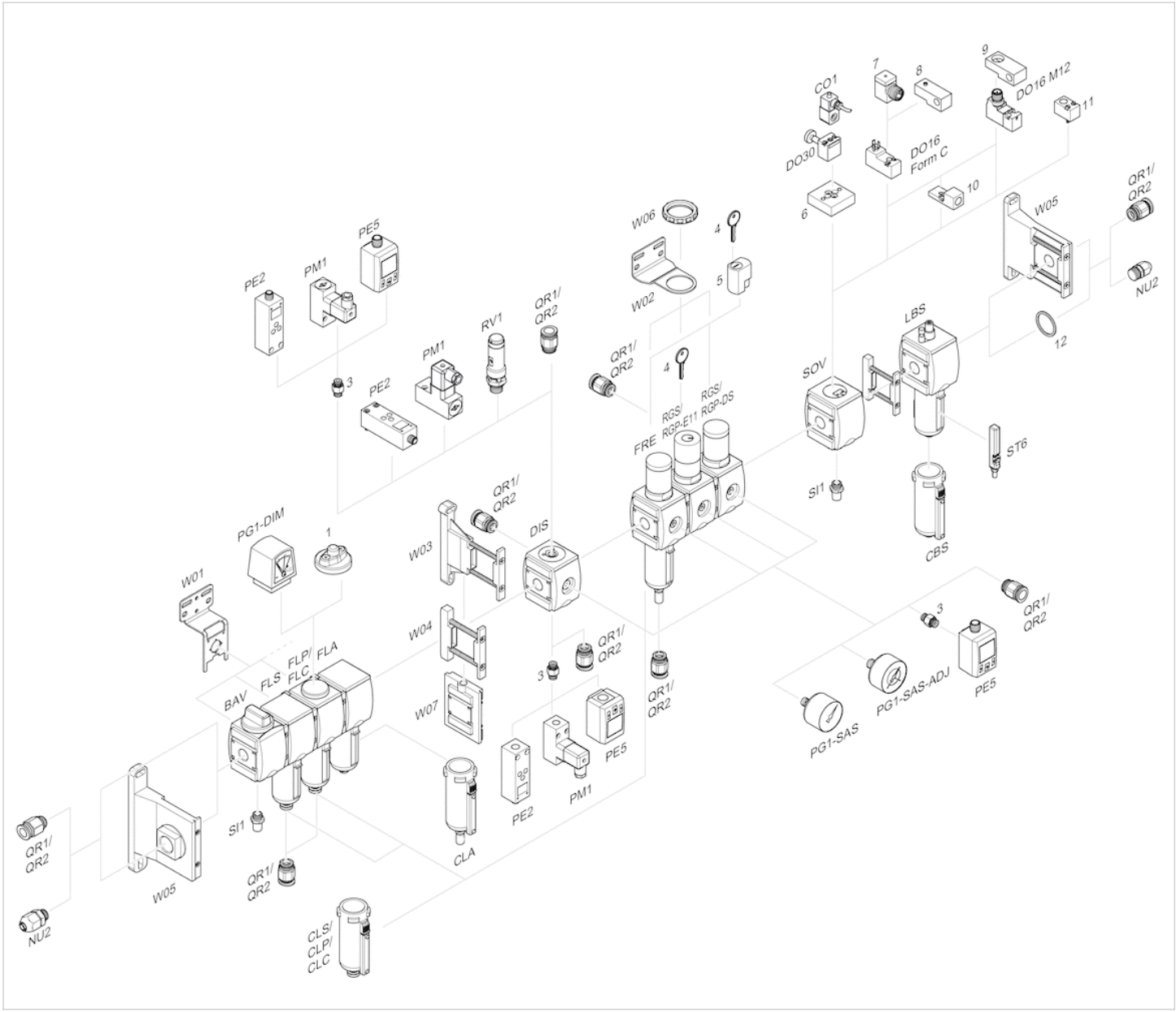
p1 = working pressure
qn = nominal flow

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 .

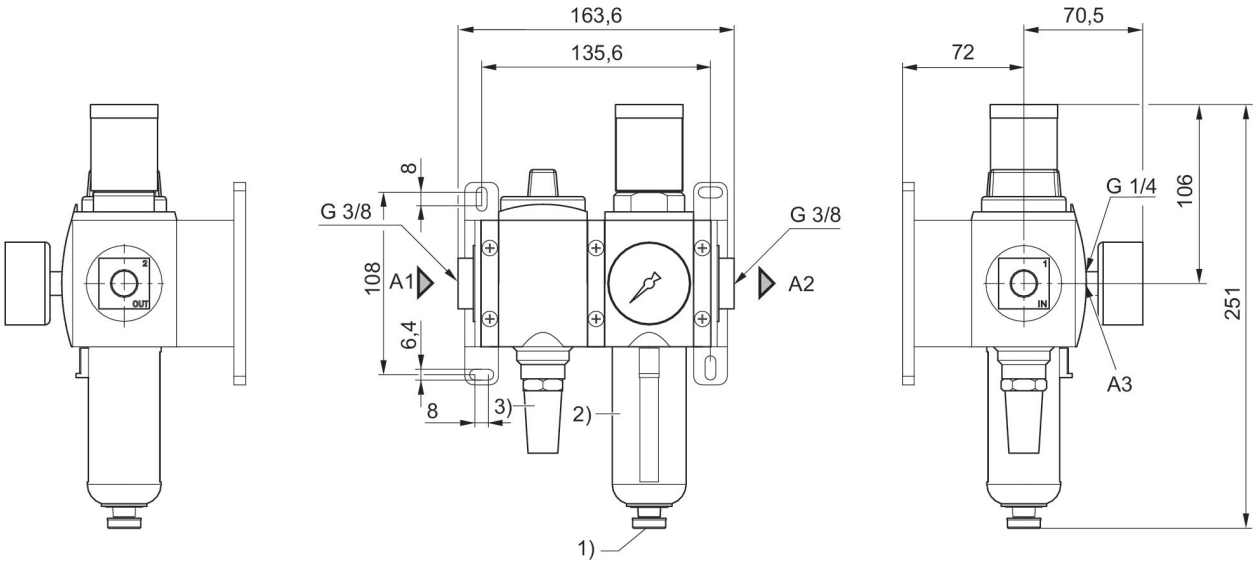
Note: Polycarbonate reservoirs are susceptible to solvents, supplementary information can be found at "Customer information".

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.

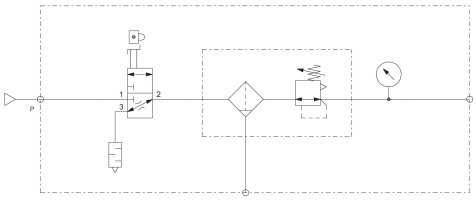
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions

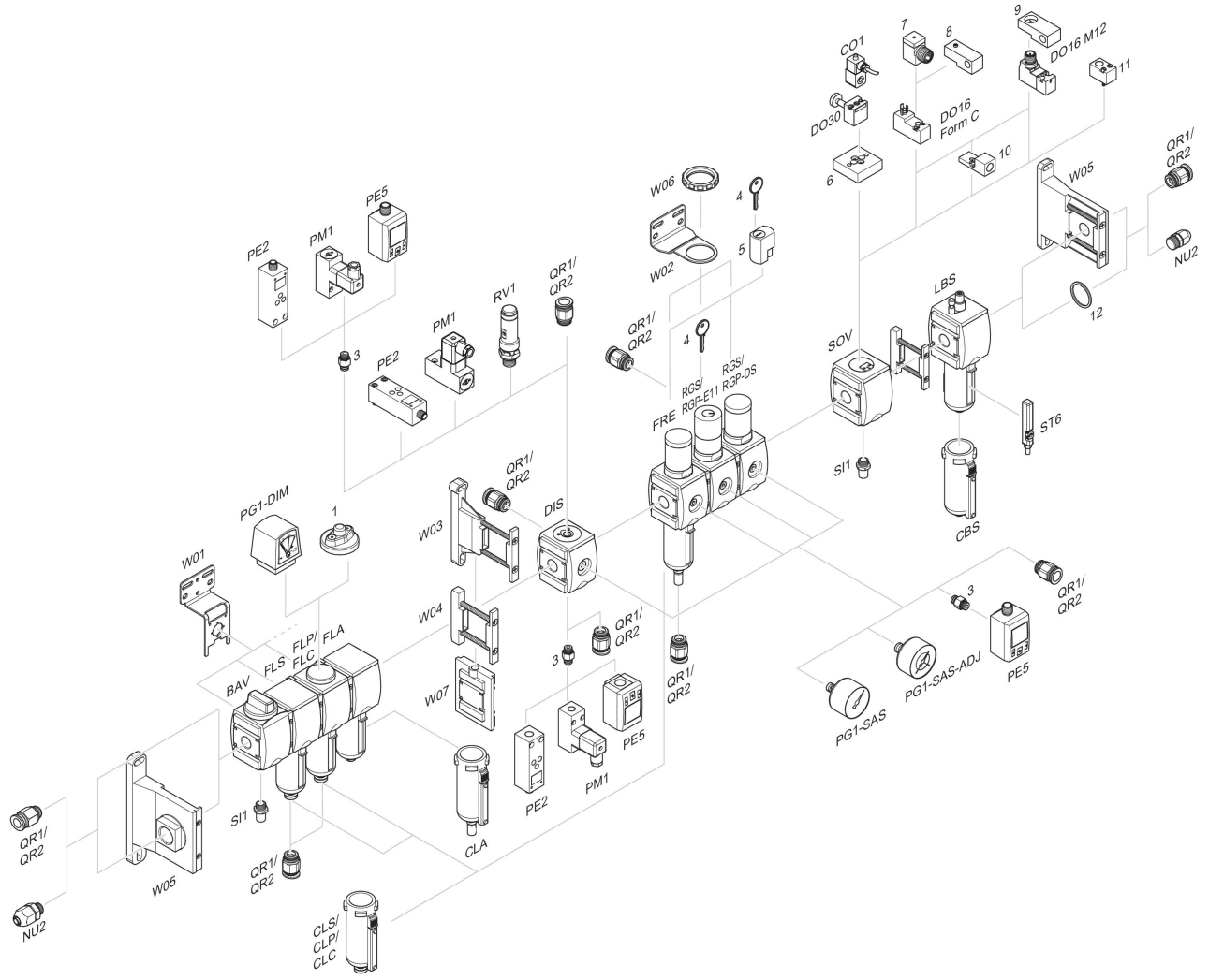


A1 = input
A2 = output
A3 = pressure gauge connection
1) Semi-automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer

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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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
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 .

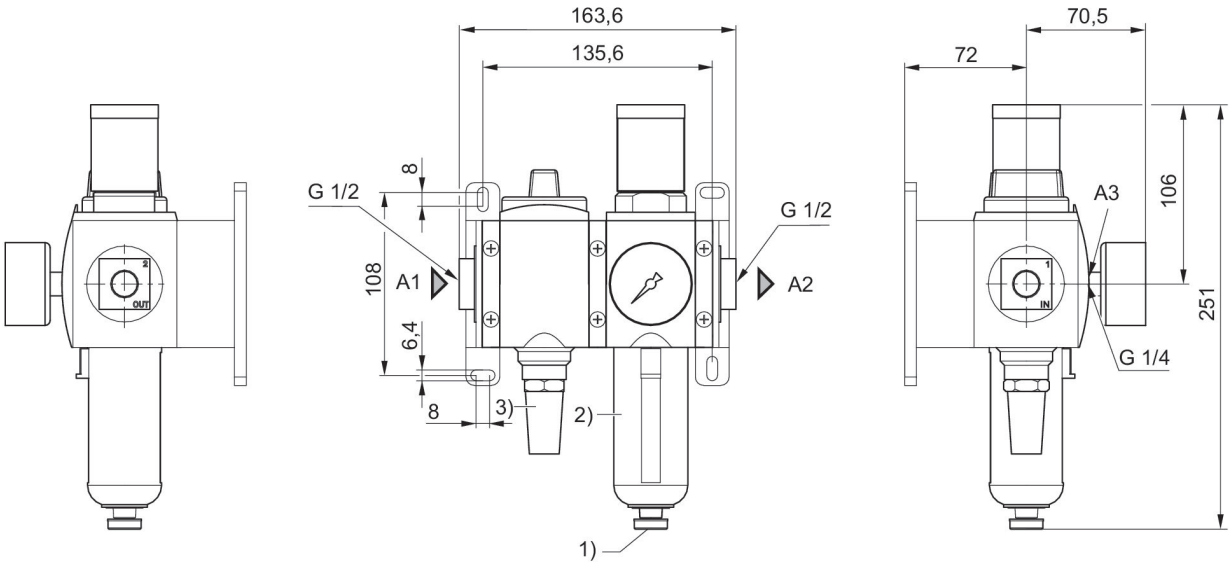
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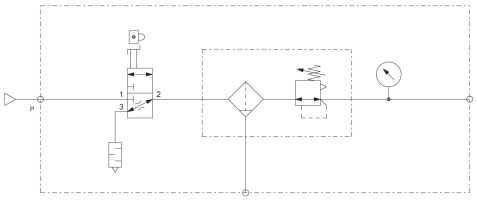
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm

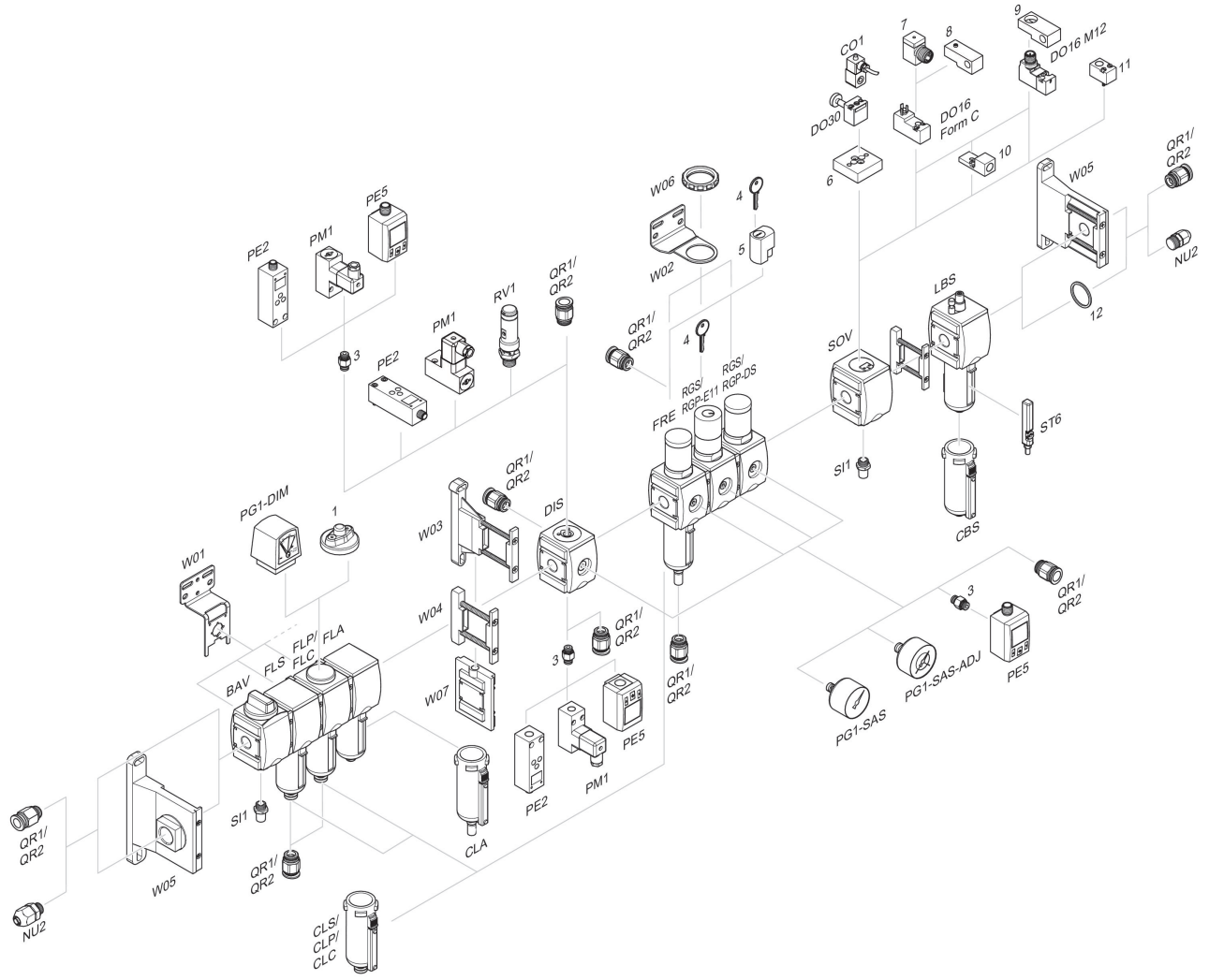


A1 = input
A2 = output
A3 = pressure gauge connection
1) Semi-automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer

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

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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
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 .

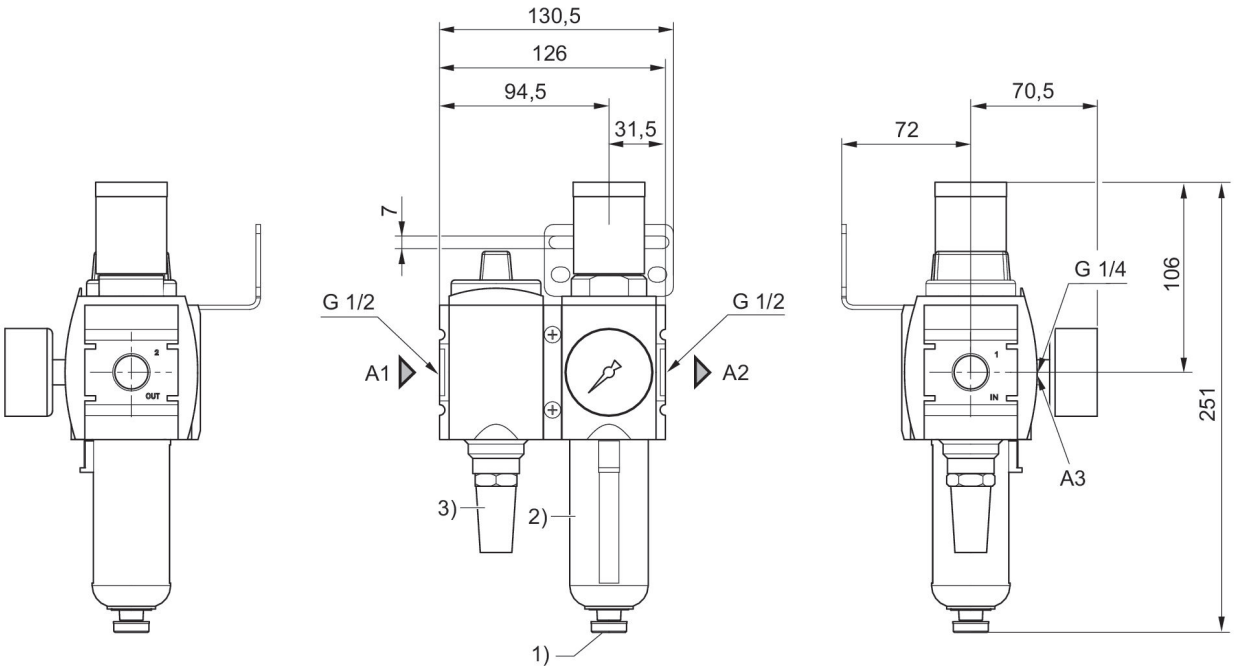
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A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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

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

Dimensions in mm



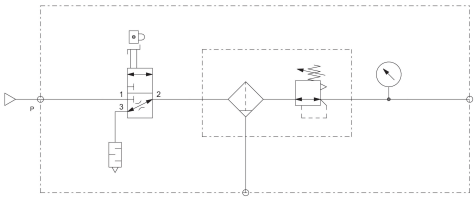
A1 = input
A2 = output
A3 = pressure gauge connection
1) Semi-automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer

Dimensions in mm

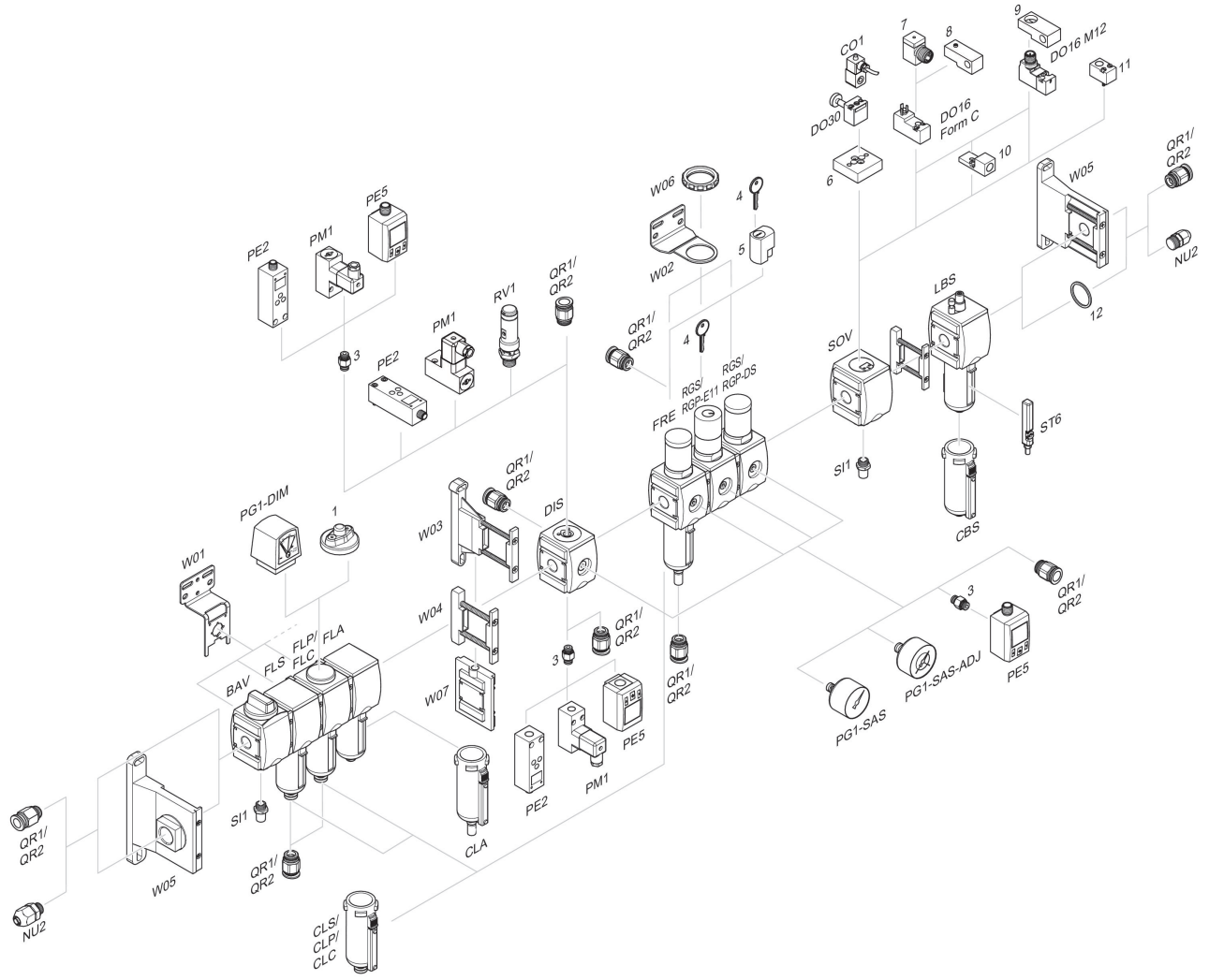
Part No.	A1	A2	A3	B	C	G	H1	H3	L1
R412027673	G 1/2	G 1/2	G 1/2	130,5	72	126	251	7	31,5

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

- 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
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 .

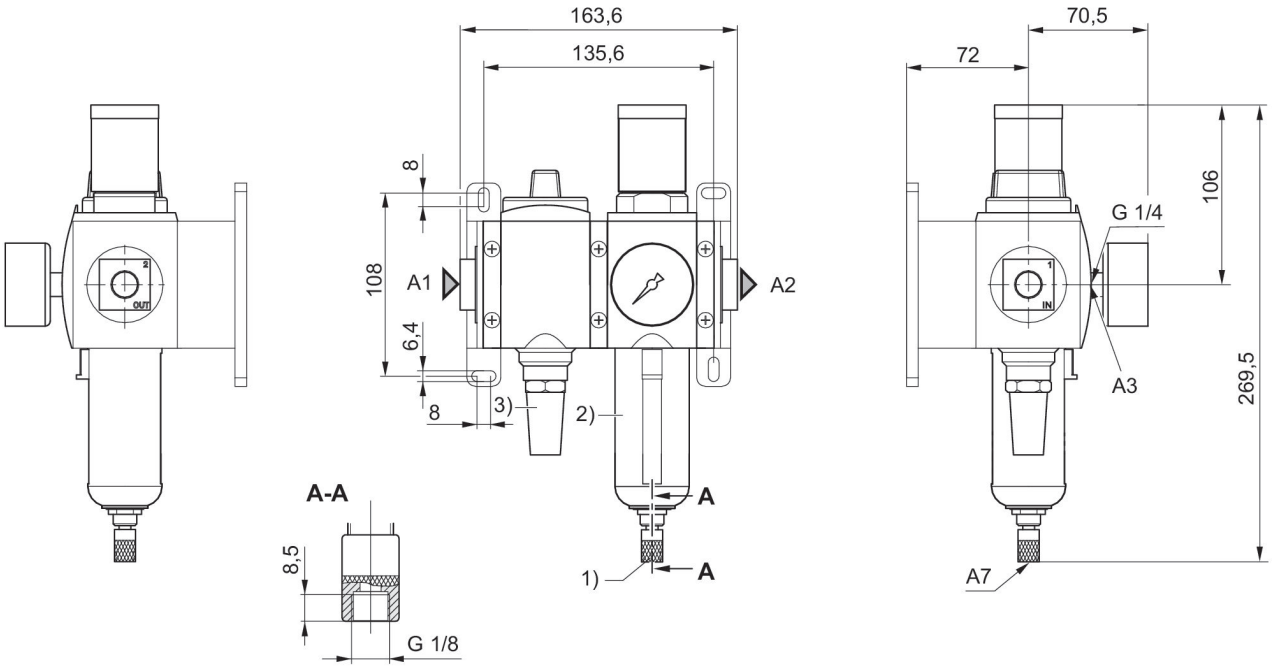
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Also suitable for separation of fluid oil or water due to the design.

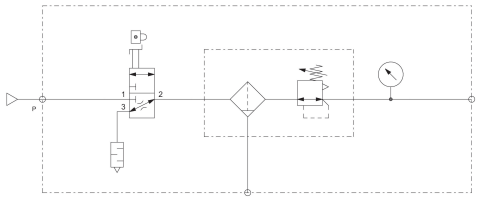
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm

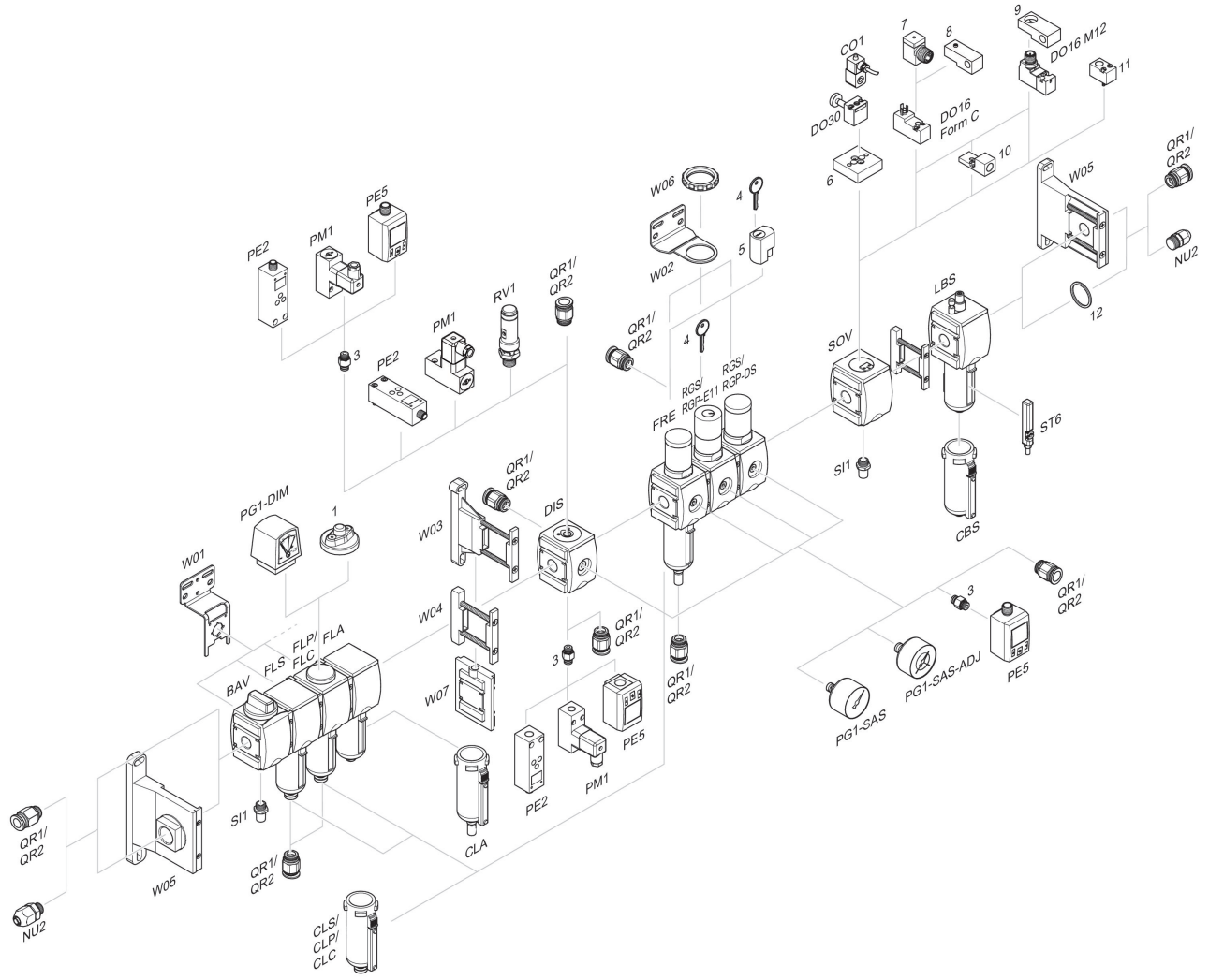


A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Fully automatic condensate drain
2) Plastic reservoir and protective guard with window
3) Silencer

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
Regulator function Adjustment range min./max. Lock type	with relieving air exhaust See table below
Pressure supply	for padlocks
Activation	single
Weight	Mechanical See table below

Technical data

Part No.			Port	Flow Qn	Working pressure min./max.	Adjustment range min./max.
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 Qn	Working pressure min./max.	Adjustment range min./max.
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 Δp = 1 bar

1) Pressure gauge enclosed separately.

2) Order pressure gauge separately.

Technical information

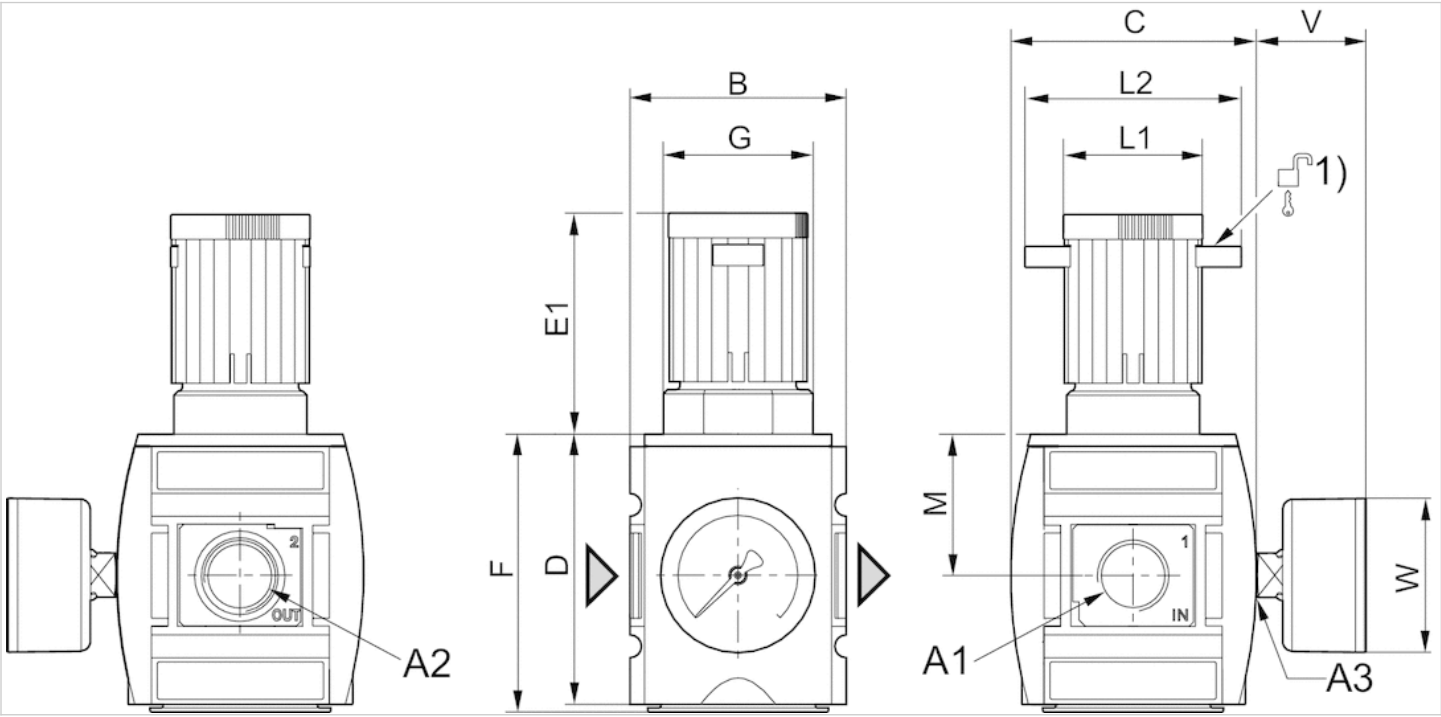
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be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



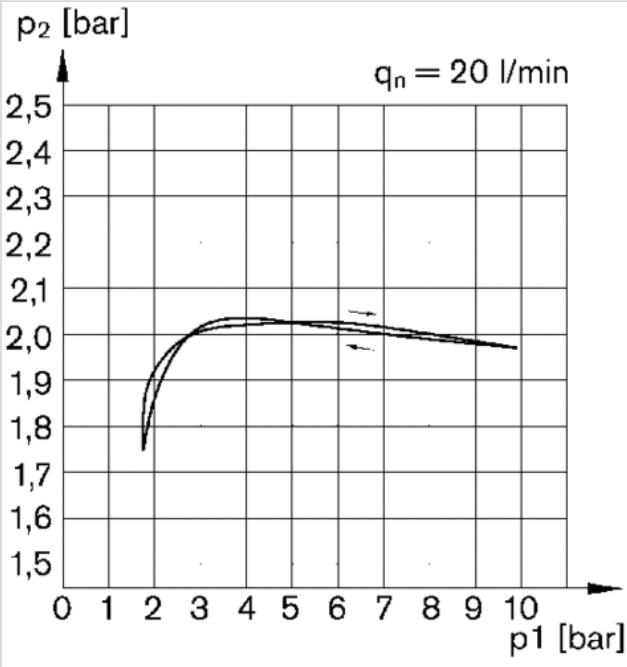
A1 = input
A2 = output
A3 = pressure gauge connection
1) Mounting option for padlocks, max. shackle Ø 8

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

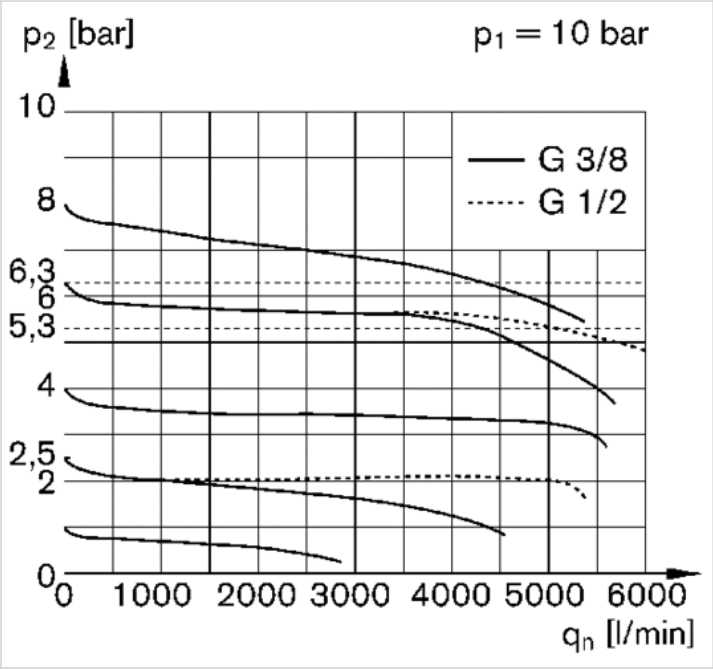
Diagrams

Pressure characteristics curve, Standard version



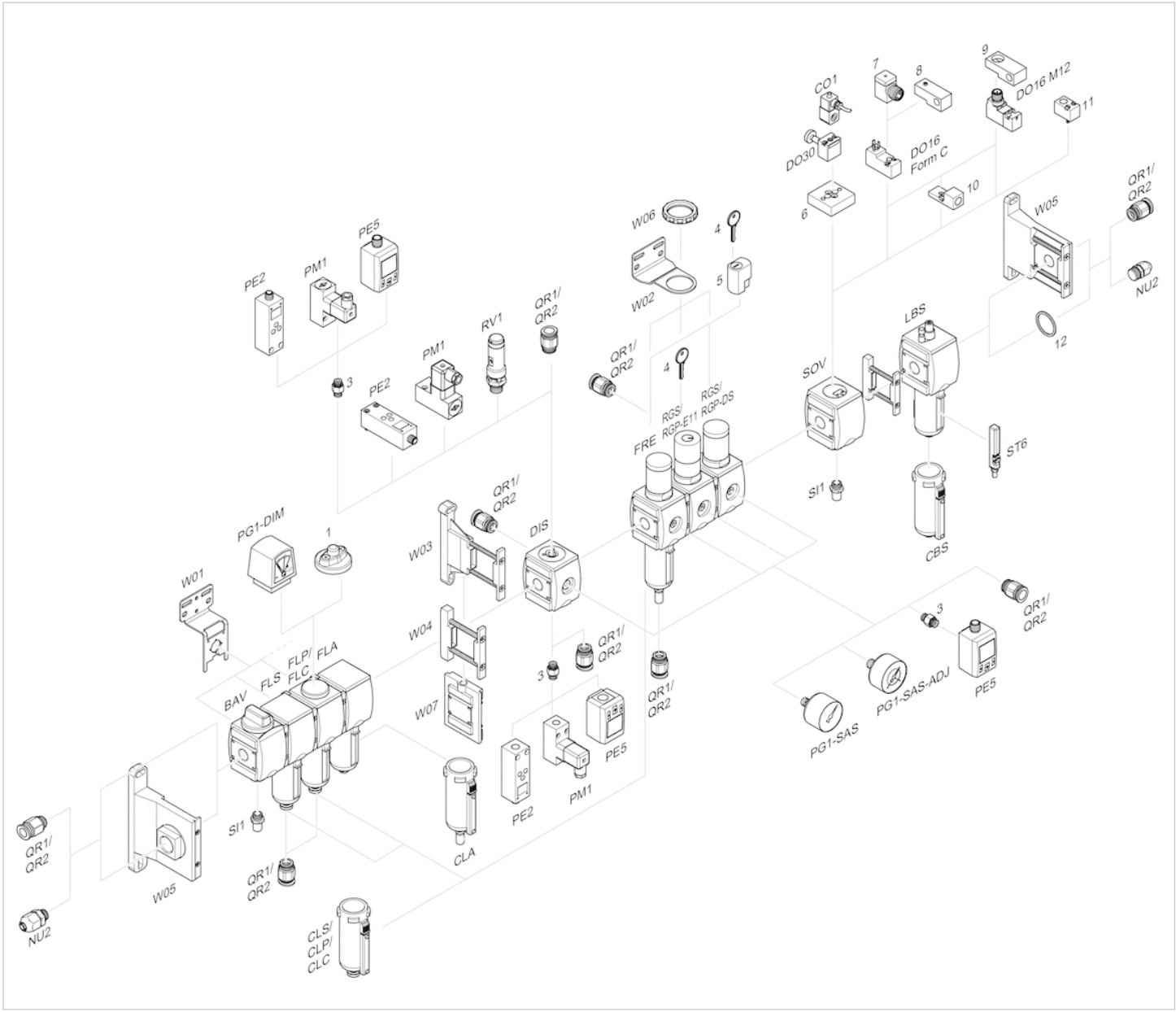
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

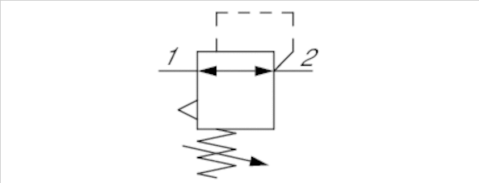


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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
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 Δp = 1 bar

Technical information

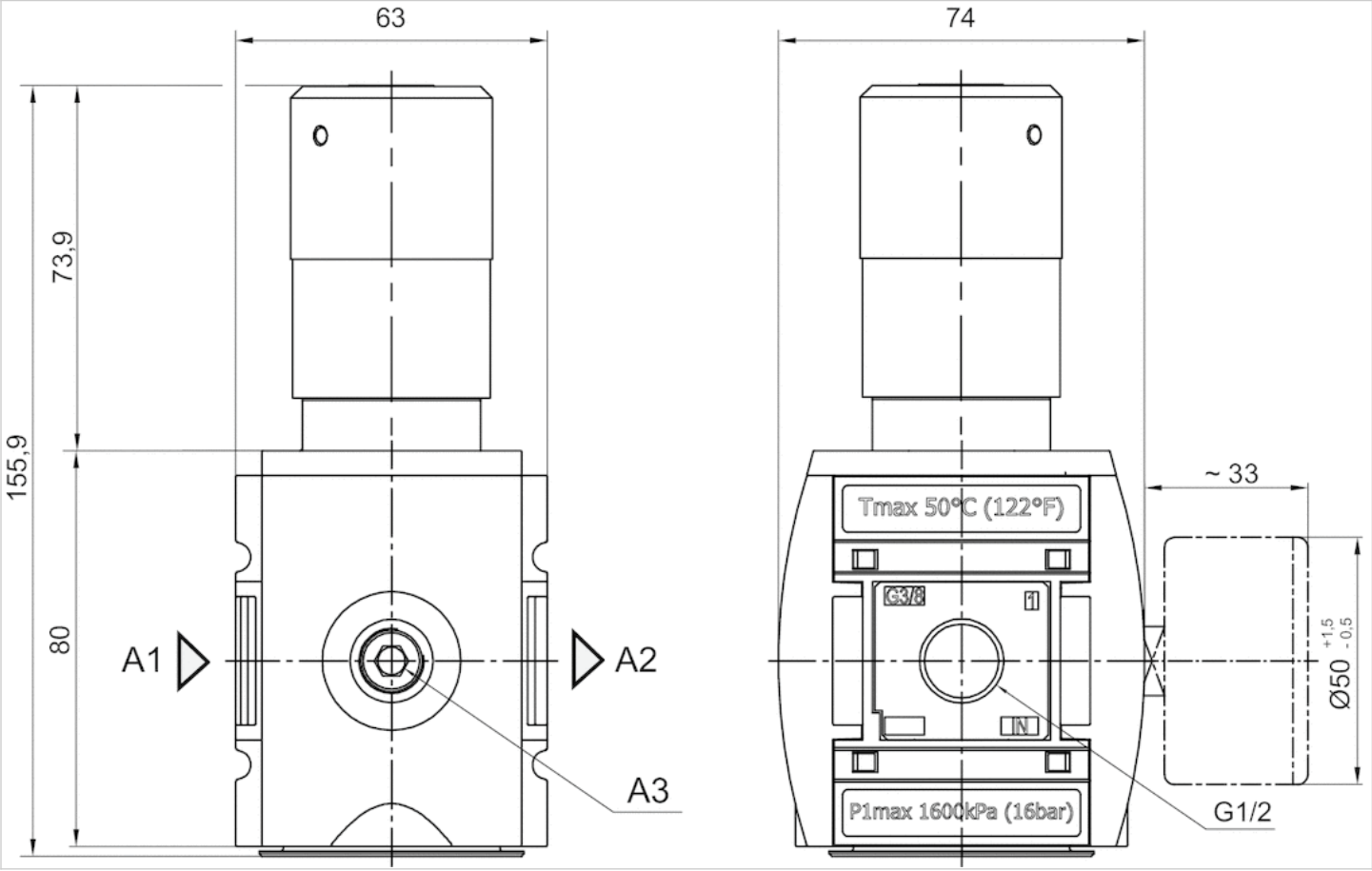
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be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

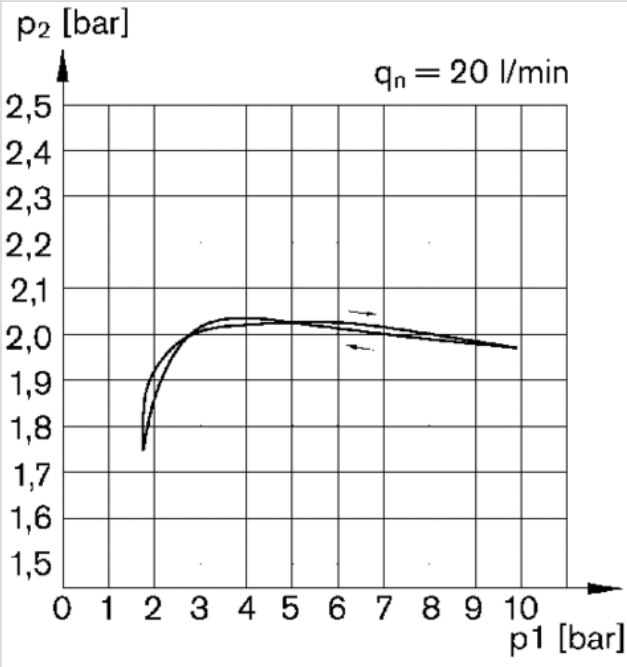
Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection

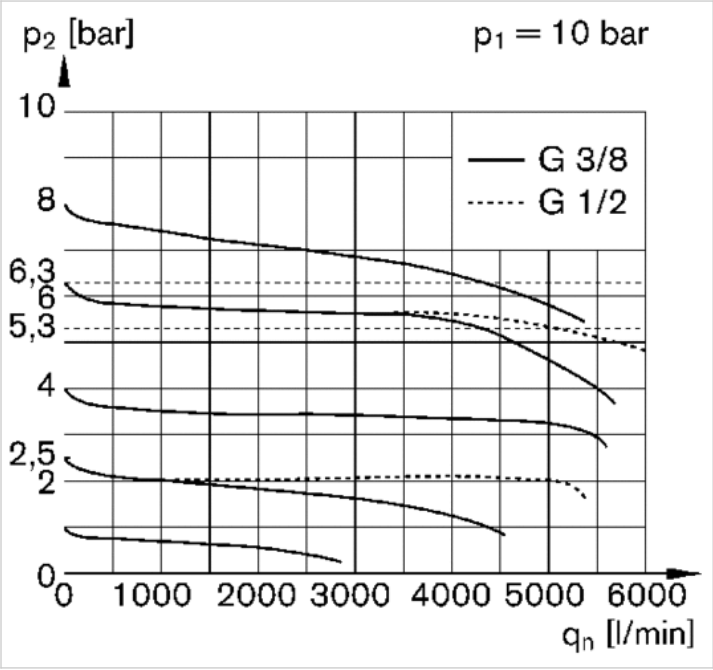
Diagrams

Pressure characteristics curve, Standard version



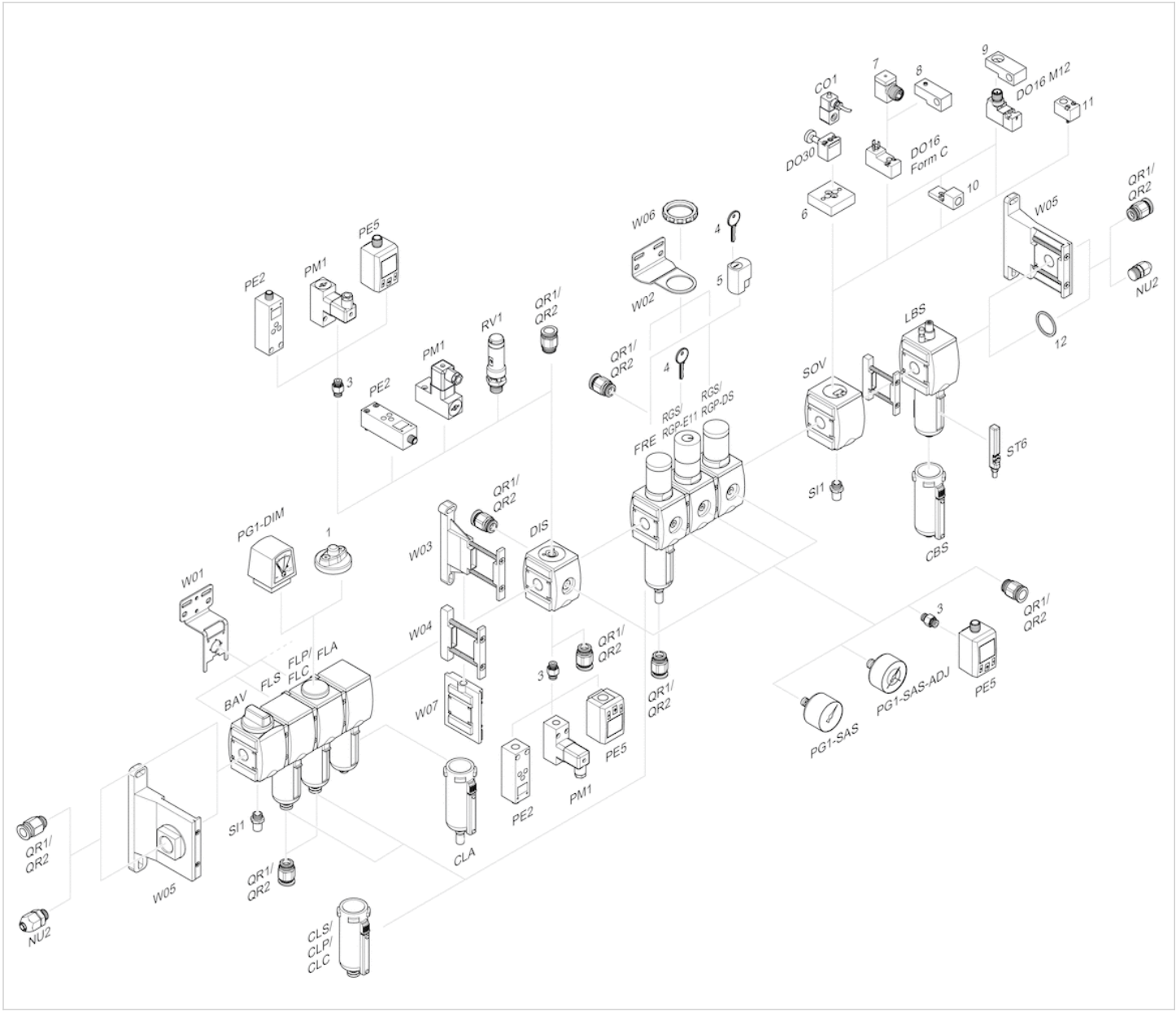
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

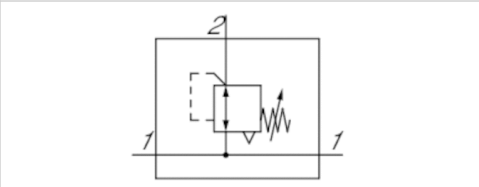


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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
Regulator function Adjustment range min./max. Lock type	with relieving air exhaust See table below
Pressure supply	for padlocks
Activation	double
Weight	Mechanical 0.528 kg

Technical data

Part No.	Port	Flow Qn	Working pressure min./max.	Adjustment range min./max.
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 Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Order pressure gauge separately.

Technical information

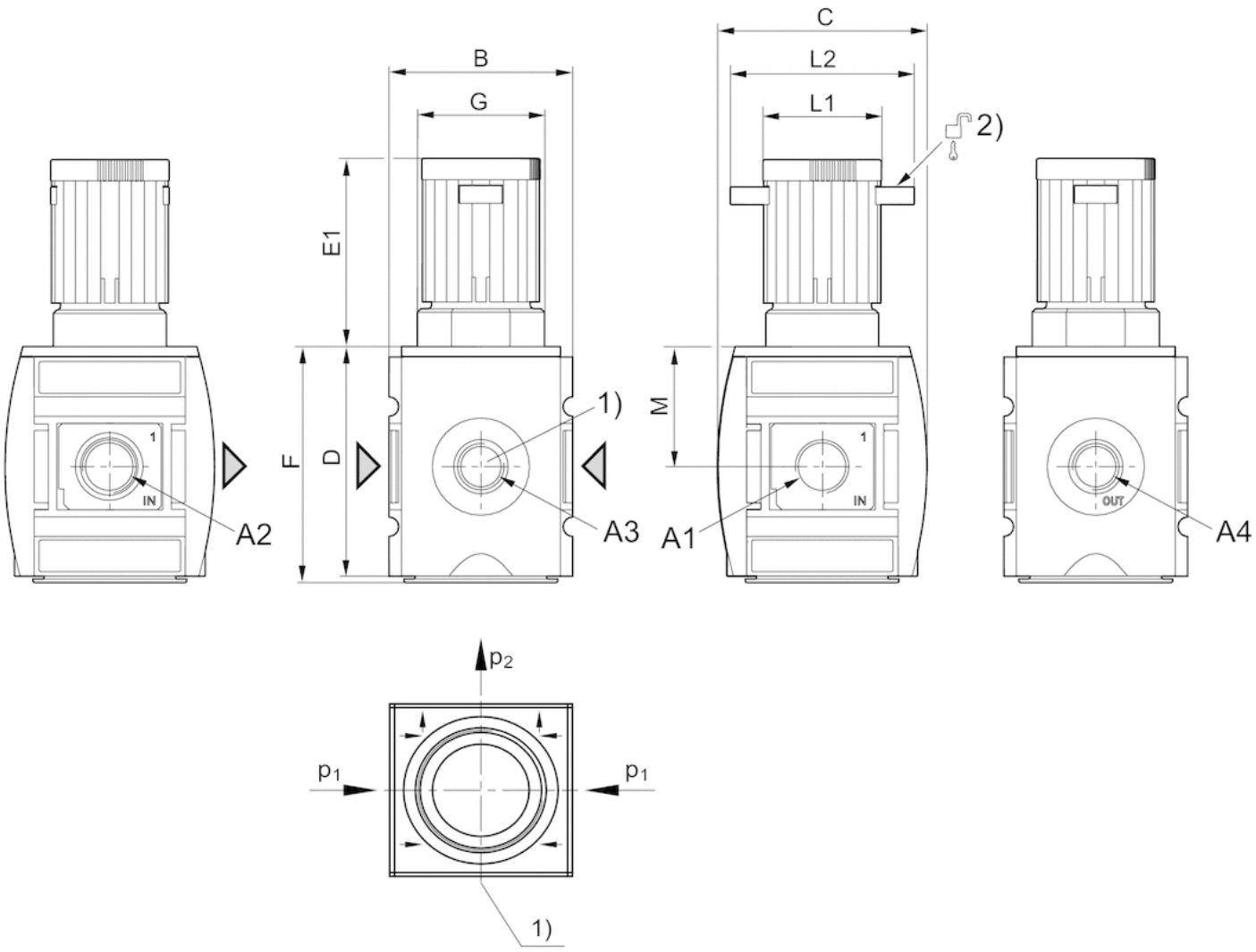
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be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



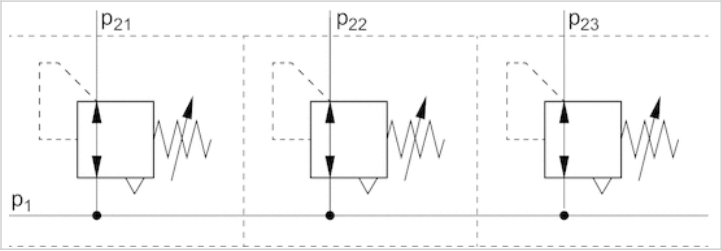
A1 = input
A2 = output
A3 = pressure gauge connection
A4 = output
1) Pressure gauge connection
2) Mounting option for padlocks, max. shackle Ø 8

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

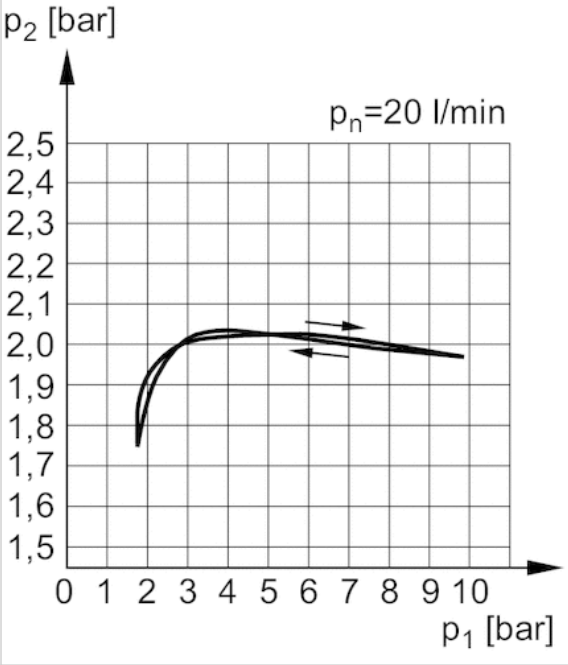
Diagrams

Application example



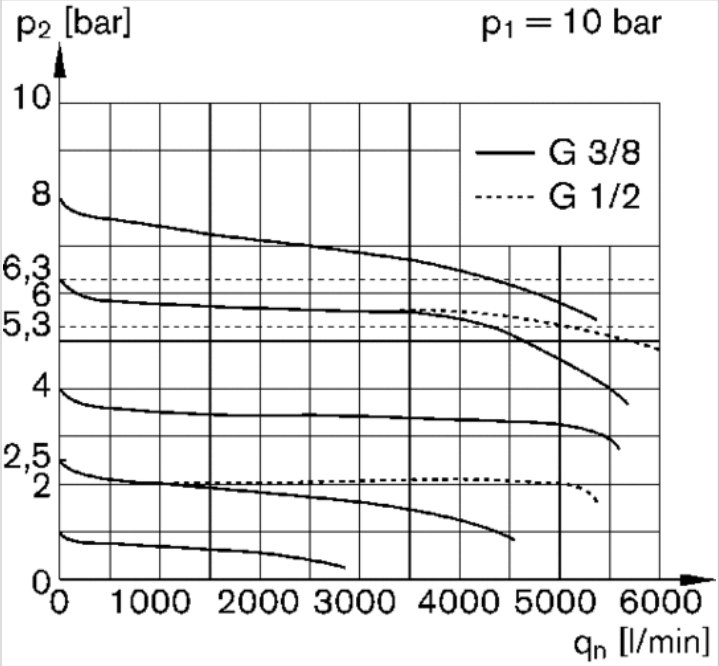
p1 = working pressure

Pressure characteristics curve



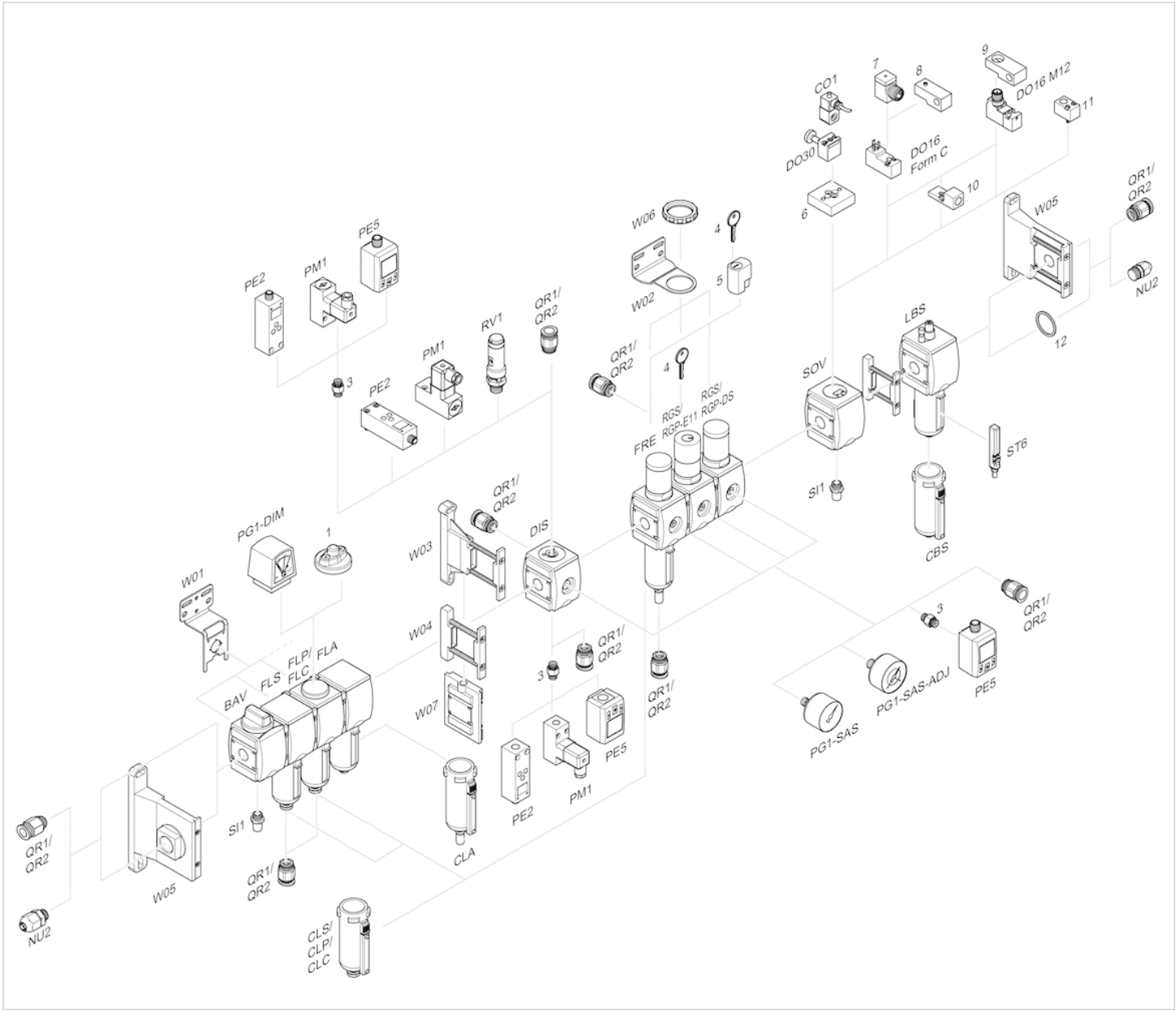
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

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
Regulator function	with relieving air exhaust
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 Qn	Working pressure min./max.	Adjustment range min./max.
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 Qn	Working pressure min./max.	Adjustment range min./max.
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 Δp = 1 bar

1) Order pressure gauge separately.

2) Pressure gauge enclosed separately.

Technical information

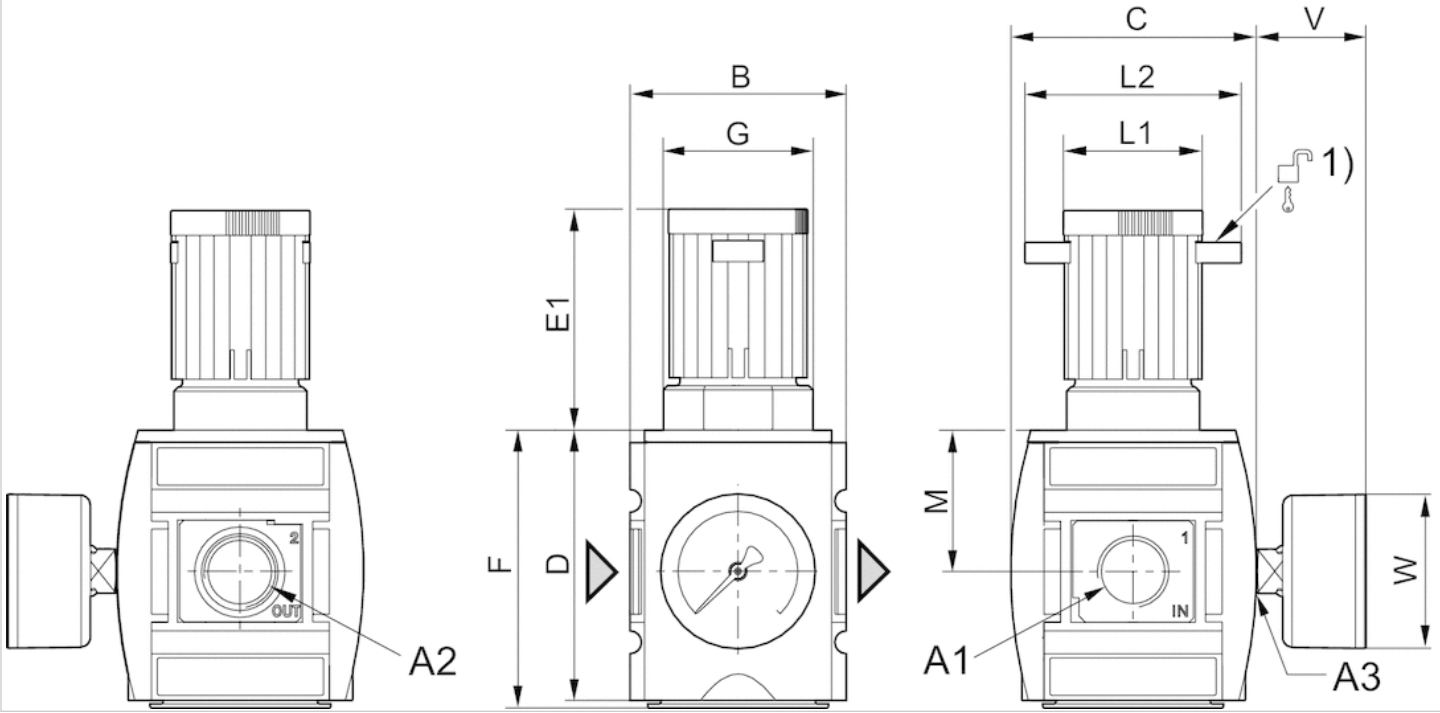
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be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



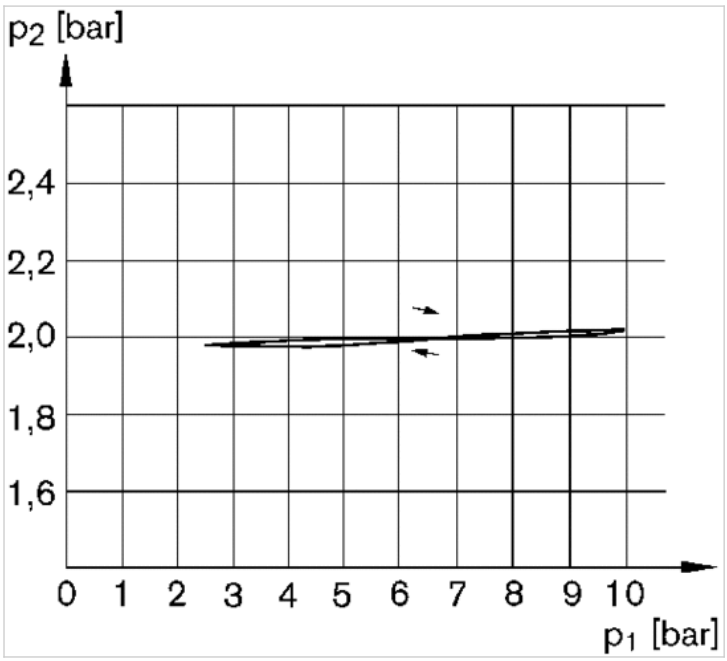
A1 = input
A2 = output
A3 = pressure gauge connection
1) Mounting option for padlocks, max. shackle Ø 8

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

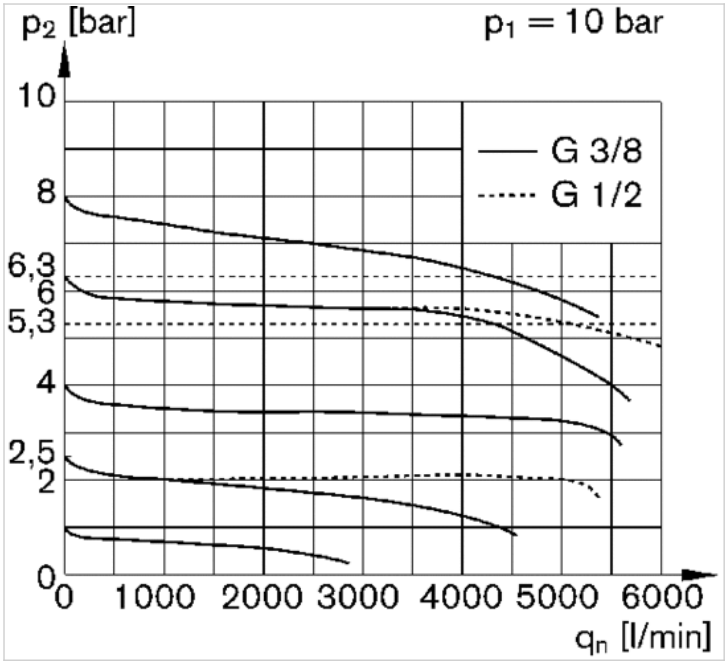
Diagrams

Pressure characteristics curve



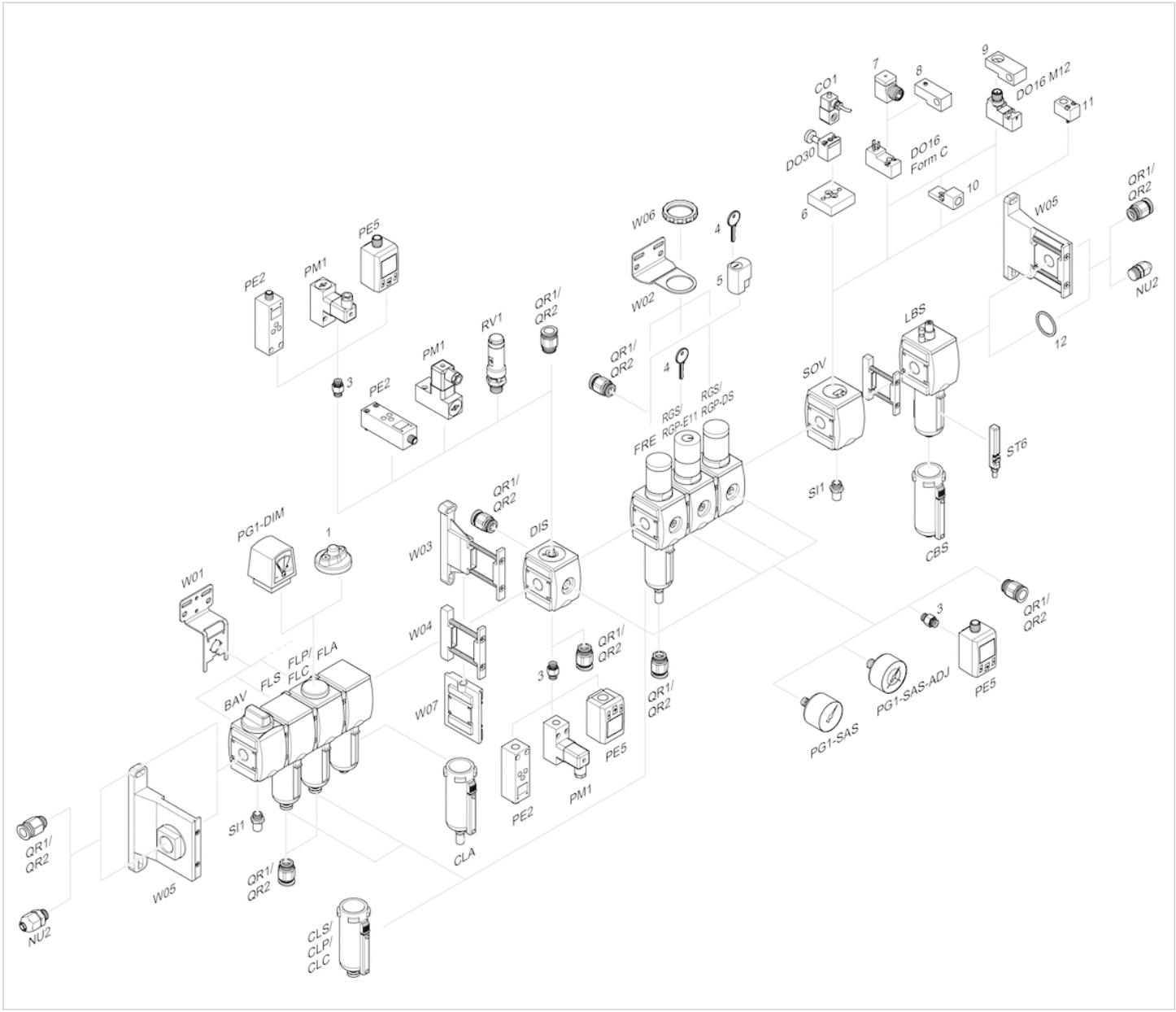
p1 = working pressure
p2 = secondary pressure

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



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

Accessories overview

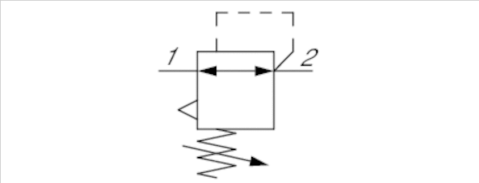


1 = contamination display
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9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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
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 Δp = 1 bar

Technical information

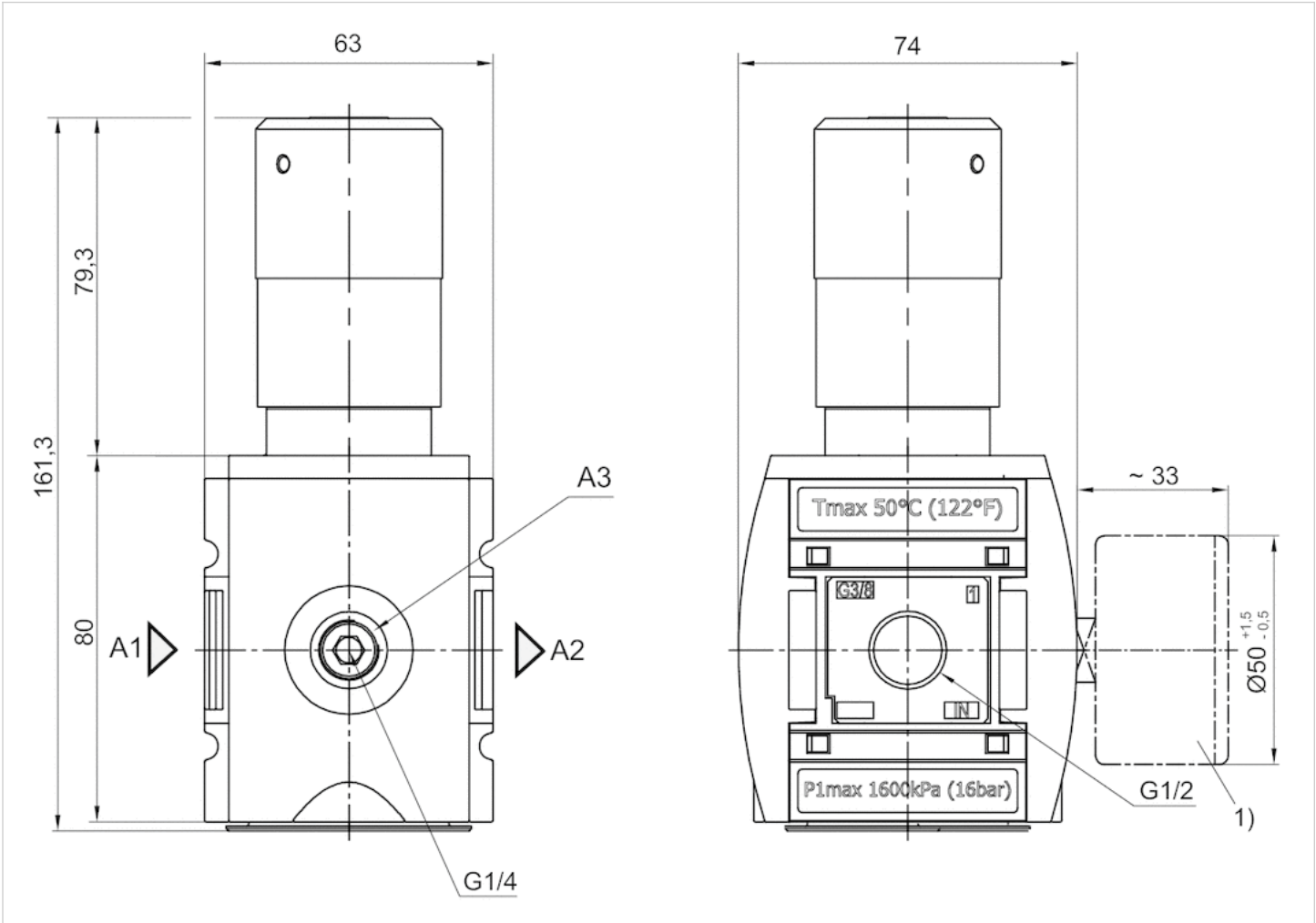
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be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

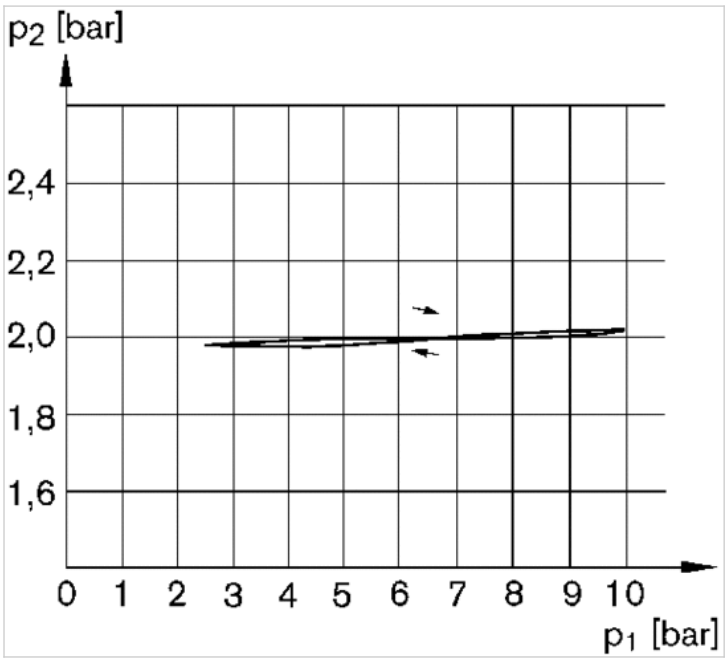
Dimensions



1) Order pressure gauge separately

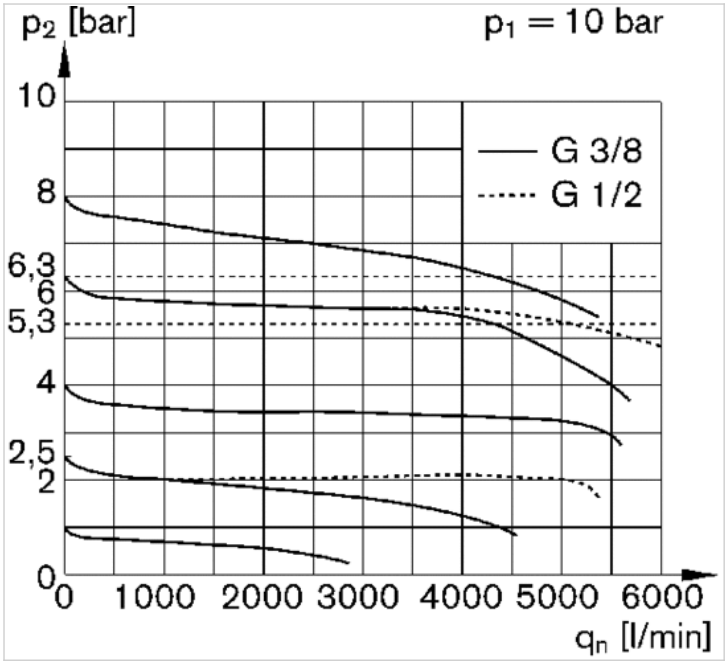
Diagrams

Pressure characteristics curve



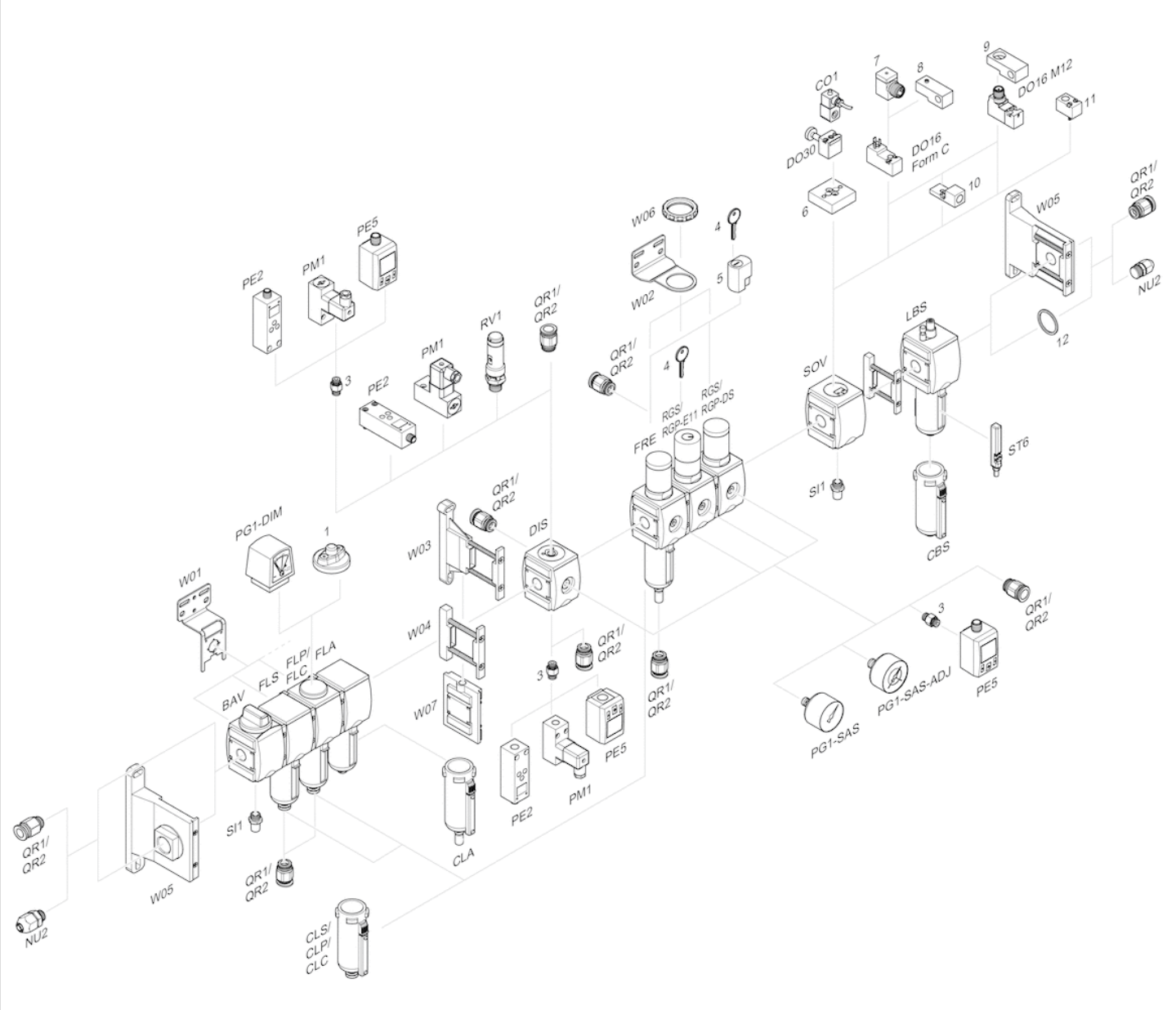
p1 = working pressure
p2 = secondary pressure

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



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

Accessories overview

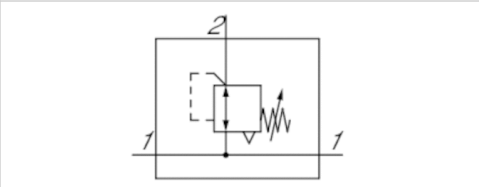


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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
Regulator function	with relieving air exhaust
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 Qn	Working pressure min./max.	Adjustment range min./max.
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 Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Order pressure gauge separately.

Technical information

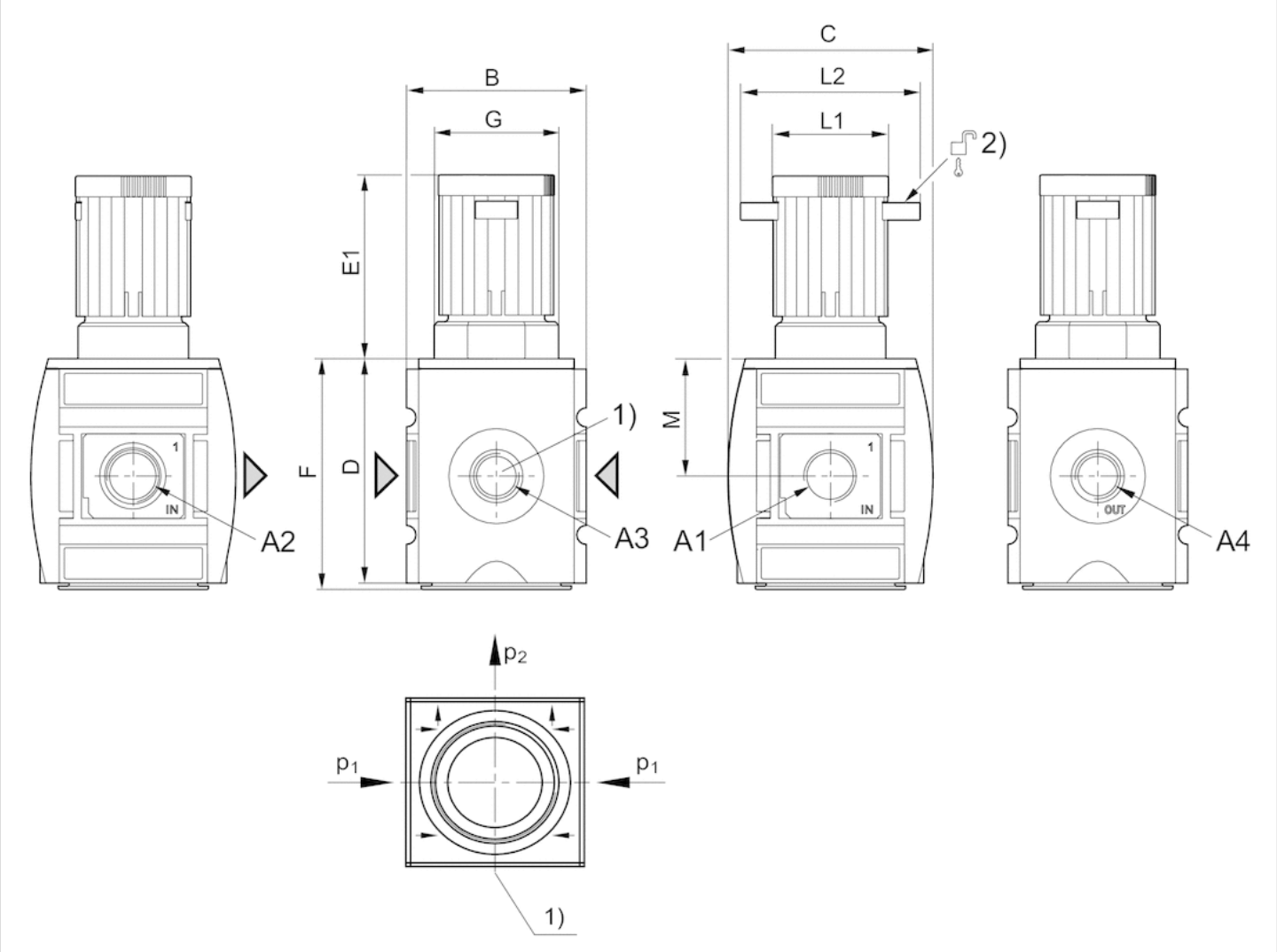
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be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



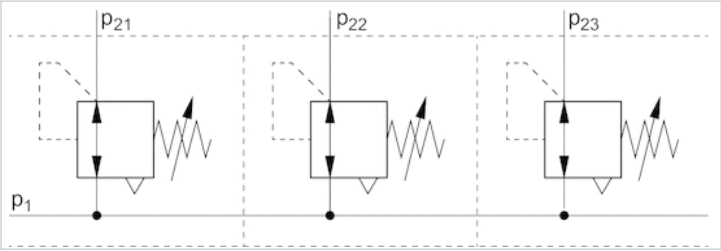
A1 = input
A2 = output
A3 = pressure gauge connection
A4 = output
1) Pressure gauge connection
2) Mounting option for padlocks, max. shackle Ø 8

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

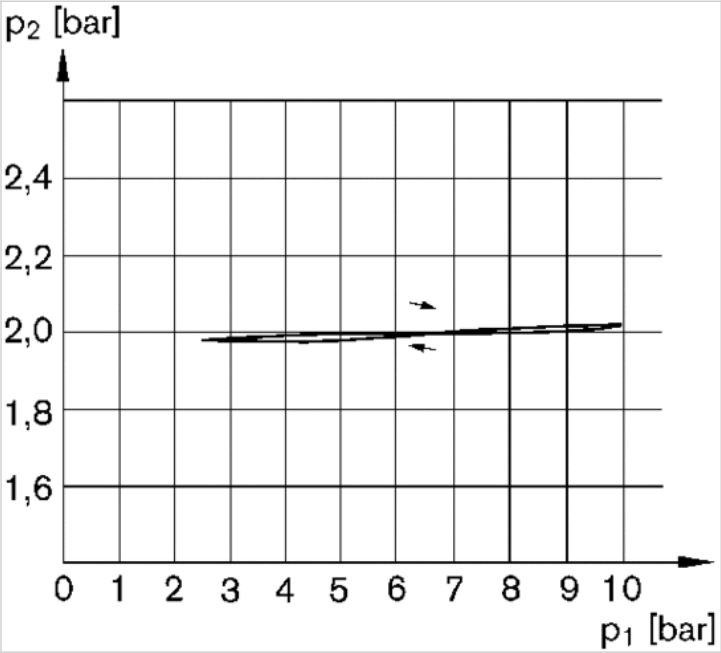
Diagrams

Application example



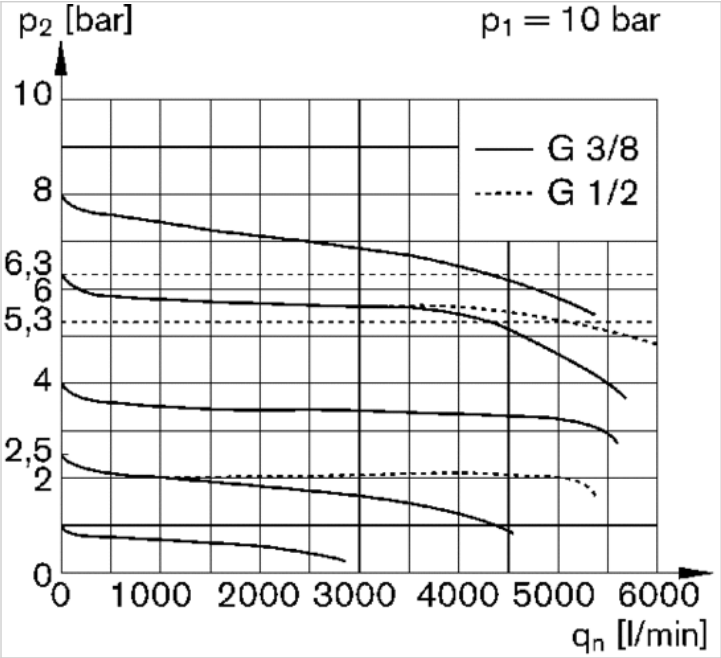
p1 = working pressure

Pressure characteristics curve



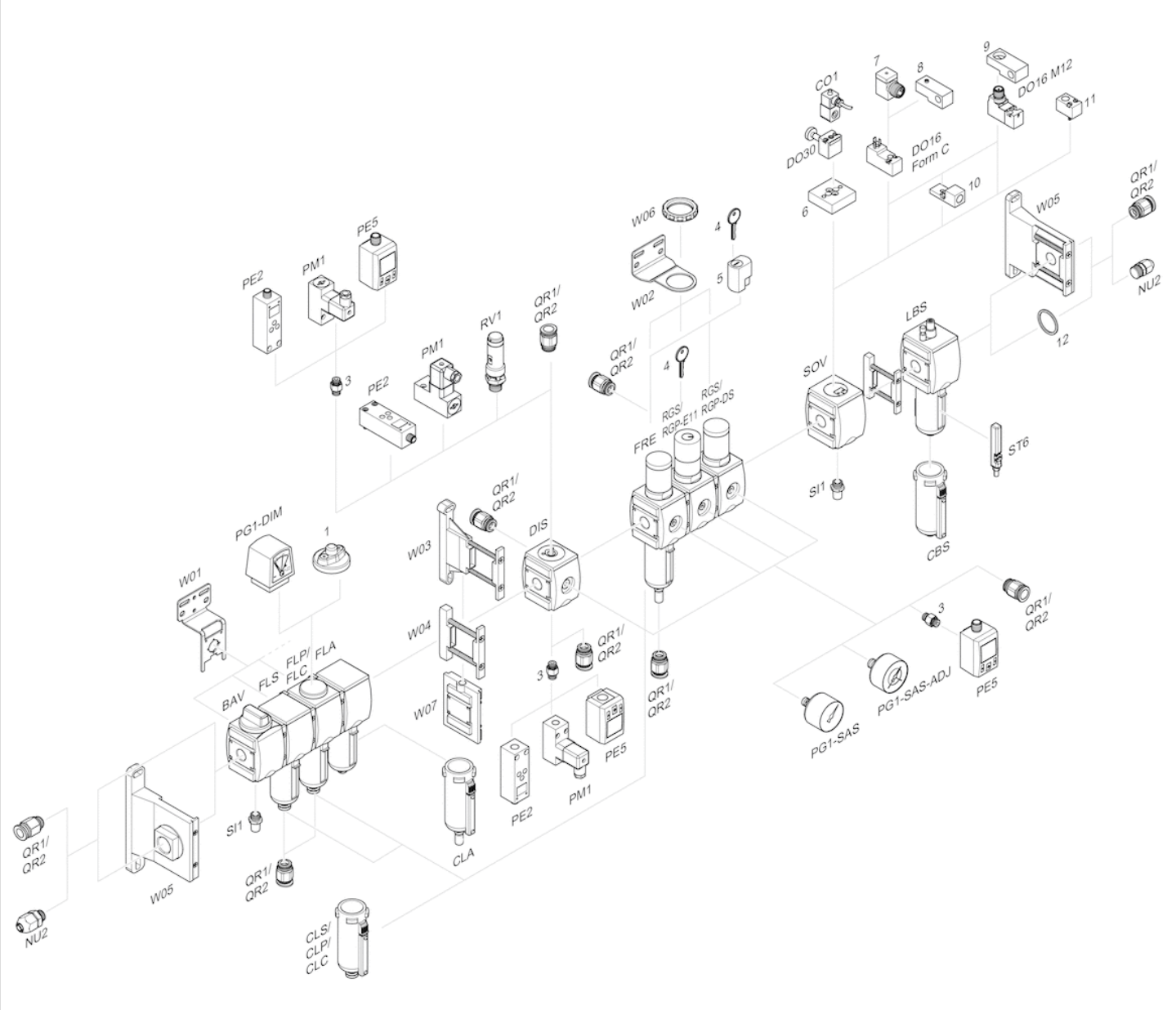
p1 = working pressure
p2 = secondary pressure

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



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

Accessories overview

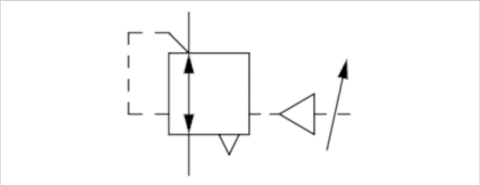


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Pressure regulator, Series AS3-RGS

- G 3/8 G 1/2
- Qn = 6500 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
Regulator function	with relieving air exhaust
Adjustment range min./max.	0.5 ... 16 bar
Pressure supply	single
Activation	pneumatically
Weight	0.579 kg

Technical data

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

Control pressure: see diagram, 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 .
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).

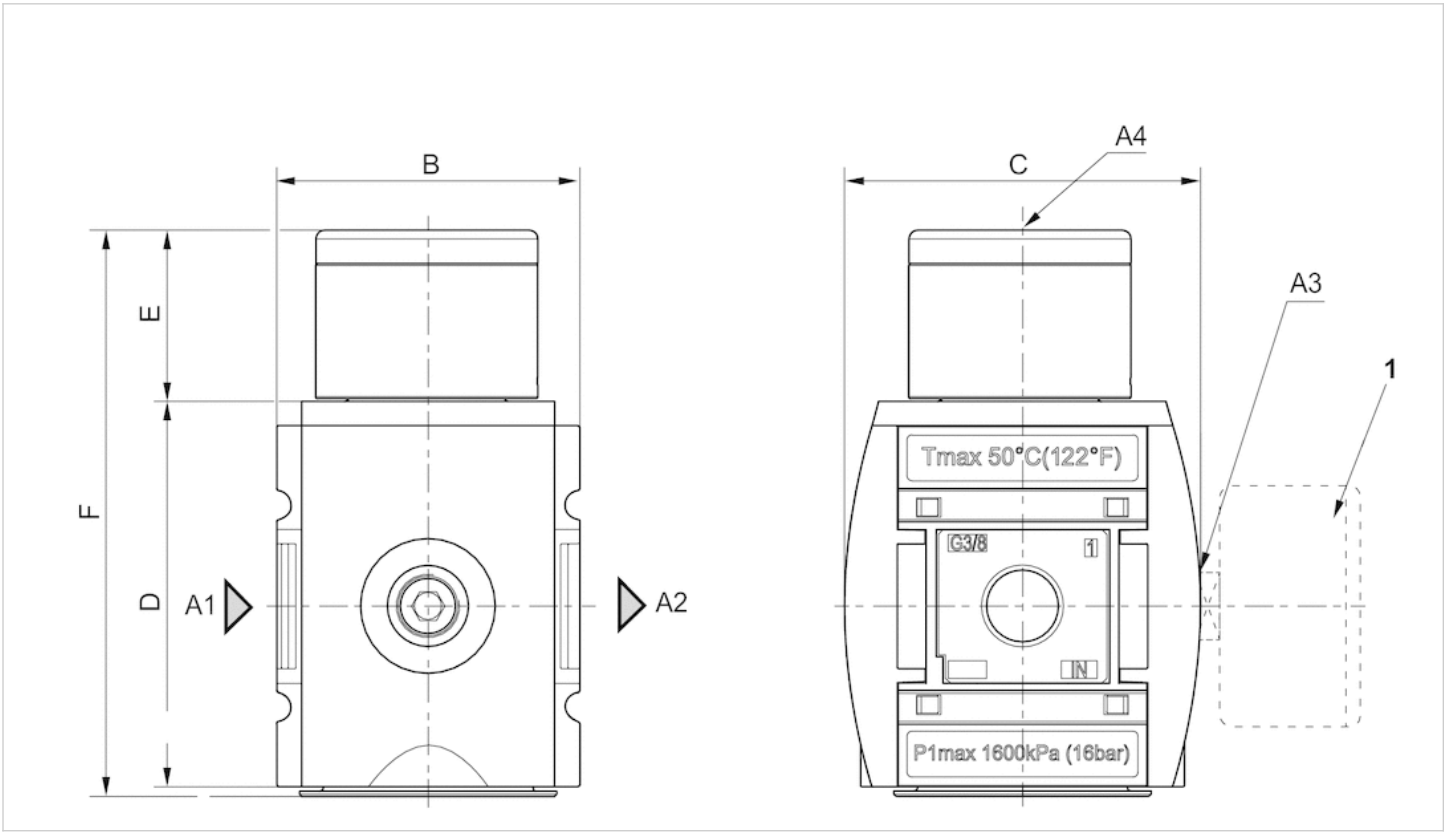
Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Dimensions

Dimensions



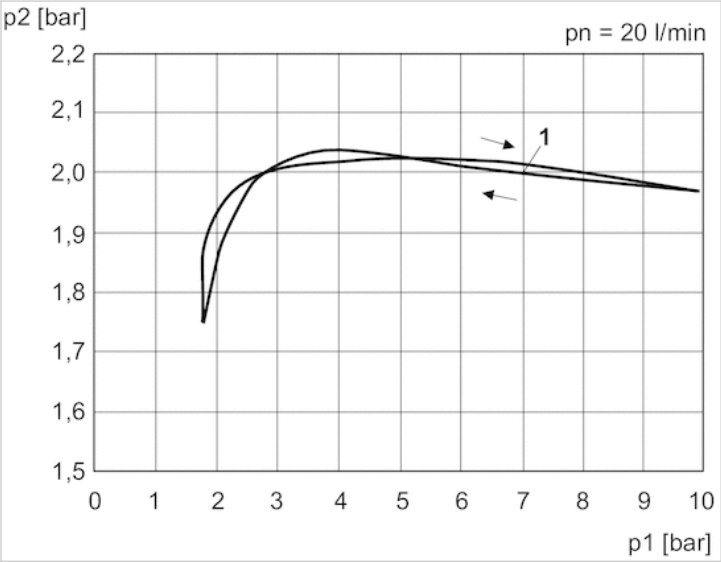
A1 = input
A2 = output
A3 = pressure gauge connection
A4 = control pressure connection
1) Order pressure gauge separately

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

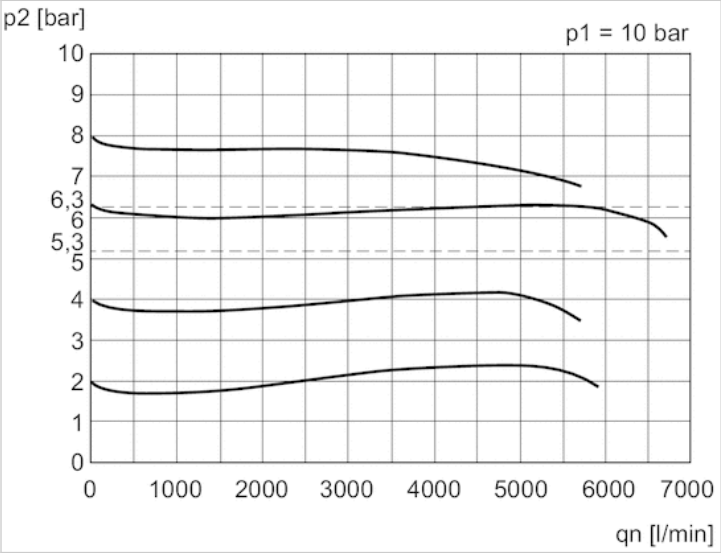
Diagrams

Pressure characteristics curve



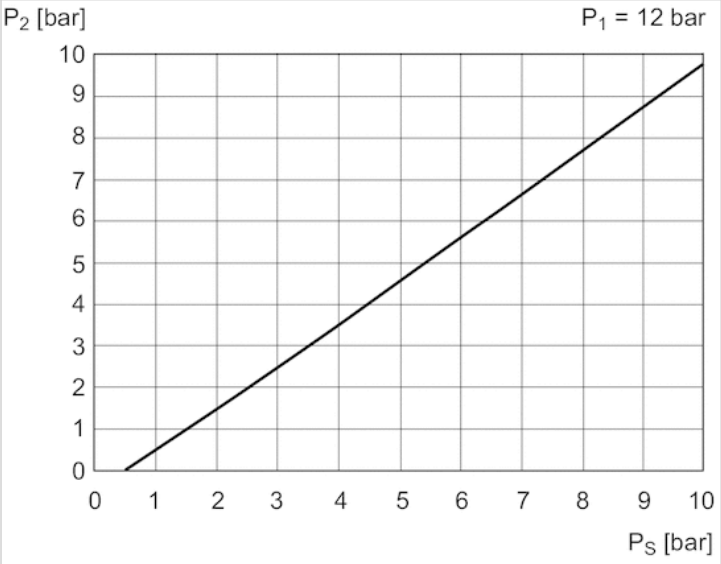
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow
1) = Starting point

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



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

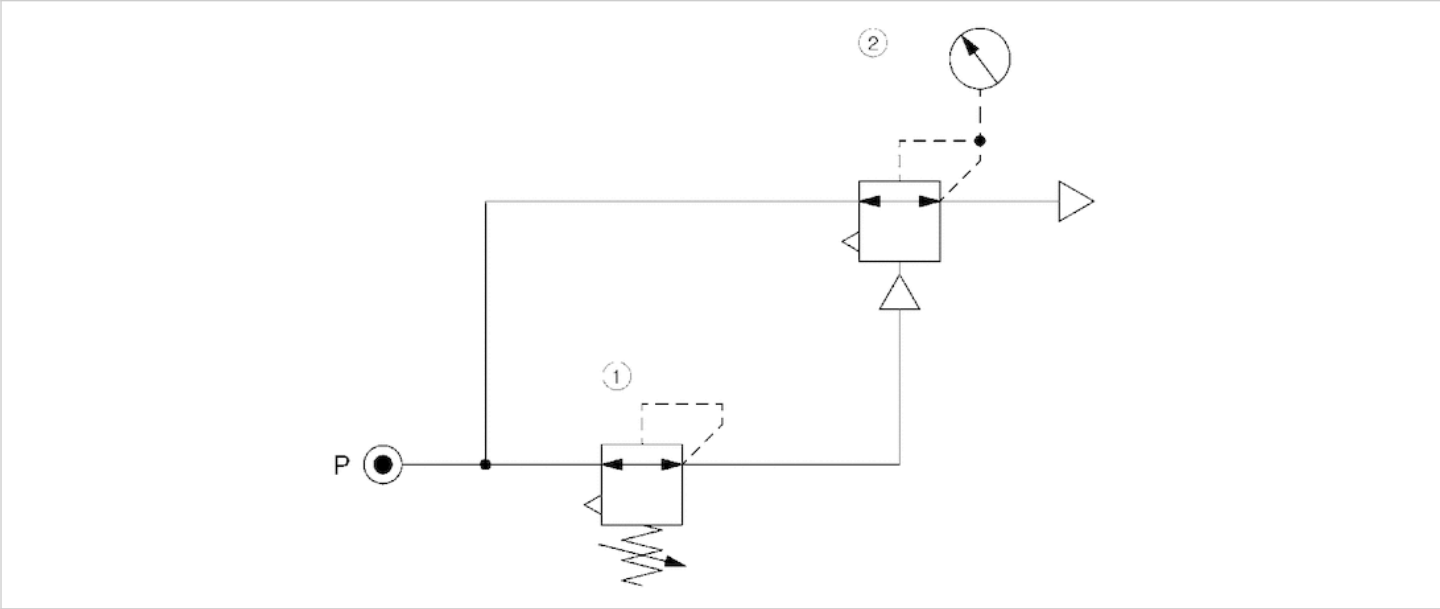
control pressure characteristic



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

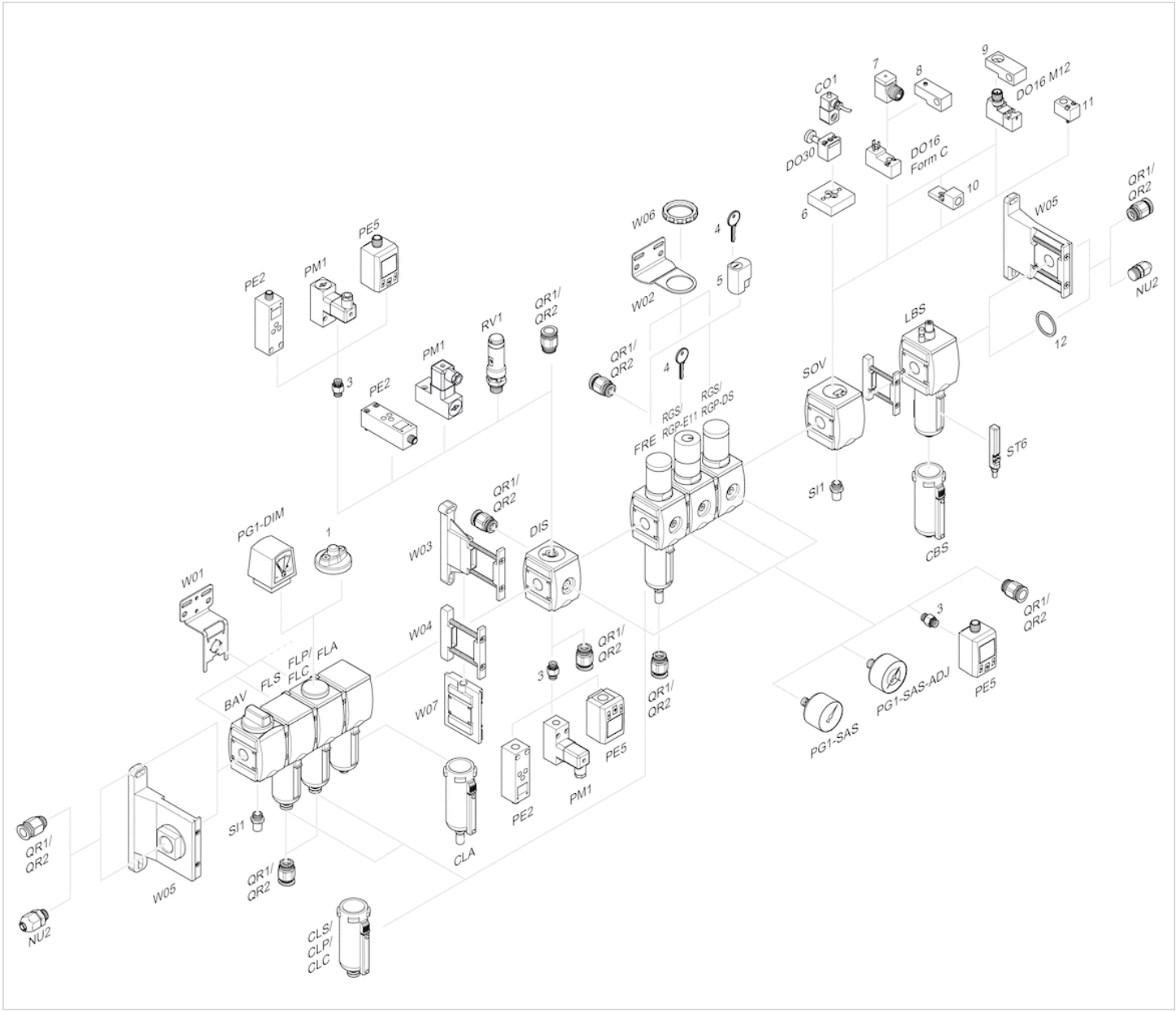
Circuit diagram

Application example



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

Accessories overview

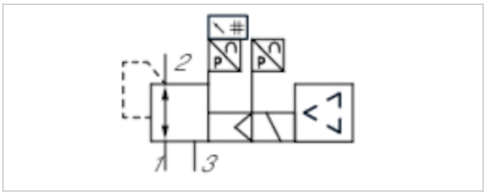


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10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

E/P pressure regulator, Series EV12

- Pressure supply, left, 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
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/m³
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.	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).

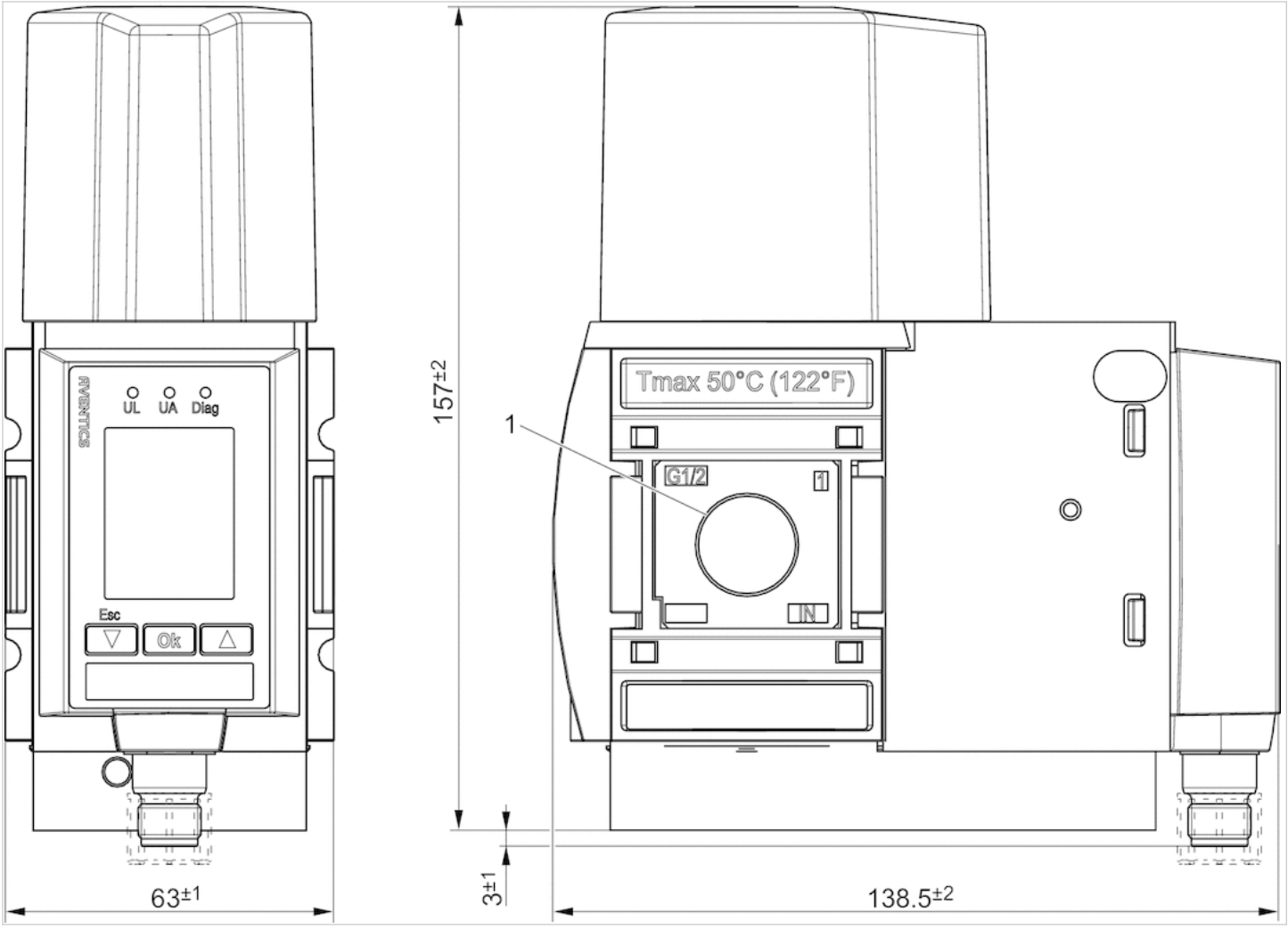
Power outage: maintain pressure

Technical information

Material	
Housing	Polyamide
Base plate	Aluminum
Seals	Nitrile butadiene rubber

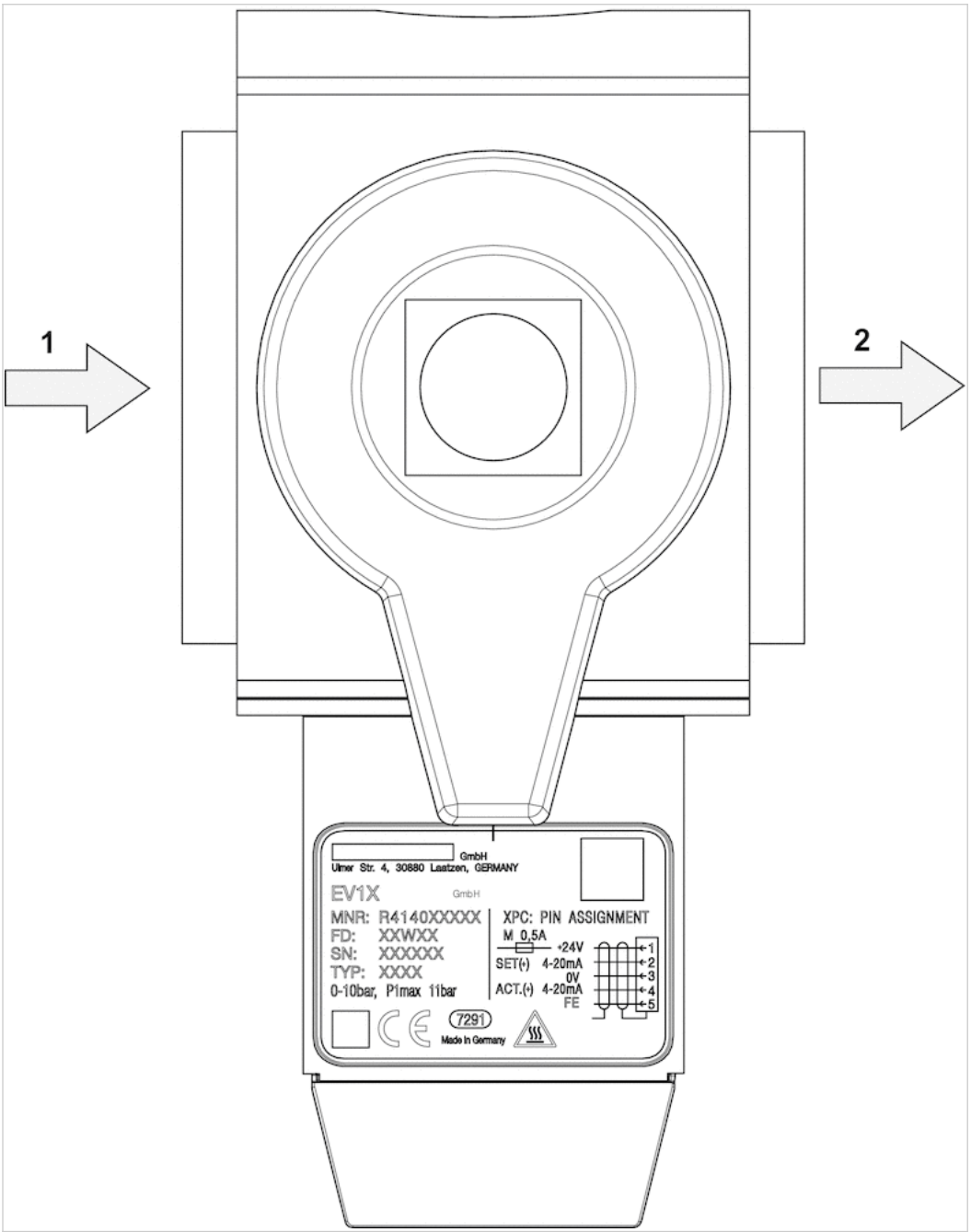
Dimensions

Dimensions



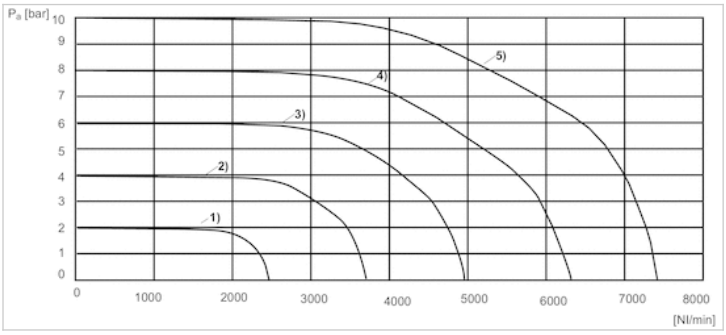
1) Connection thread

Pressure supply, left



Diagrams

Flow characteristic curve

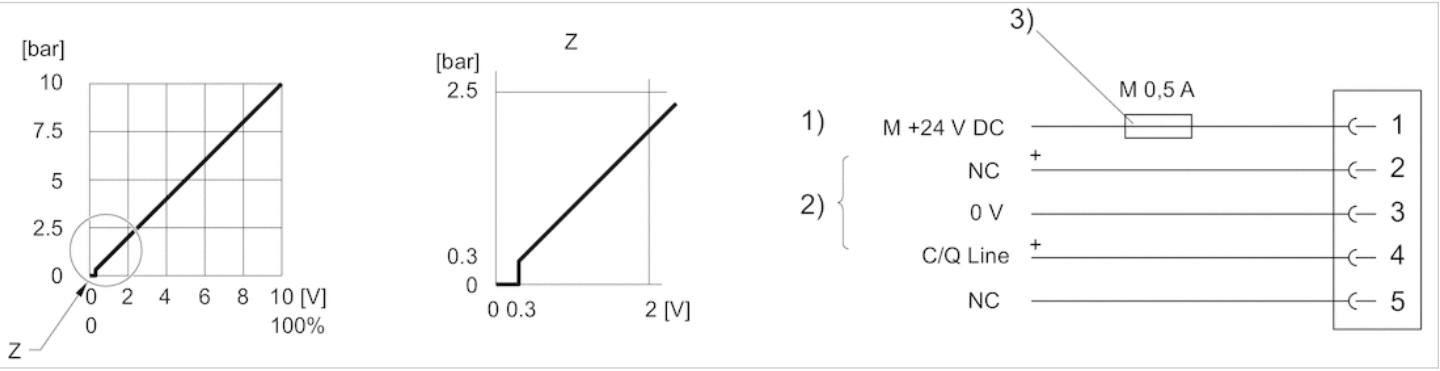


1) Pv = 3 bar

2)Pv = 5 bar
3)Pv = 7 bar
4) Pv = 9 bar
5)Pv = 11 bar
Pv = Supply pressure
Pa = Working pressure
Pv = Pa + 1

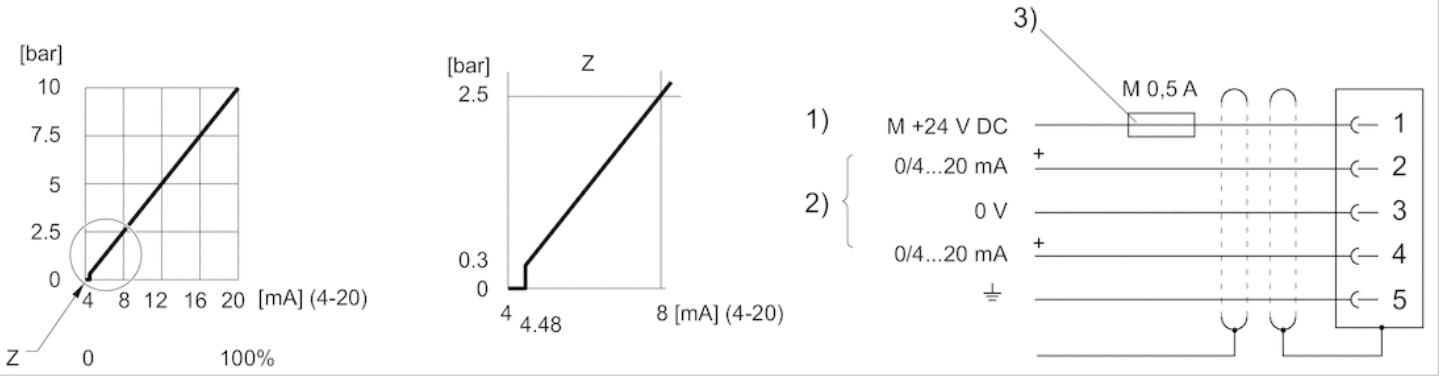
Circuit diagram

Characteristic curve and plug assignment for IO-Link version



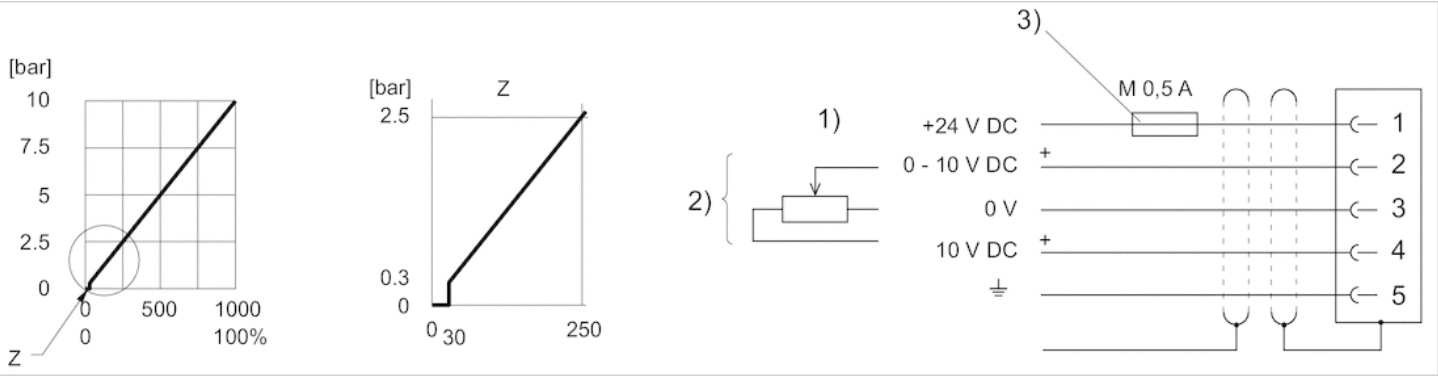
1) power supply
2) C/Q Line (pin 4) Not connected (NC) (pin 2) are related to 0 V (pin 3).
3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for current control with actual output value



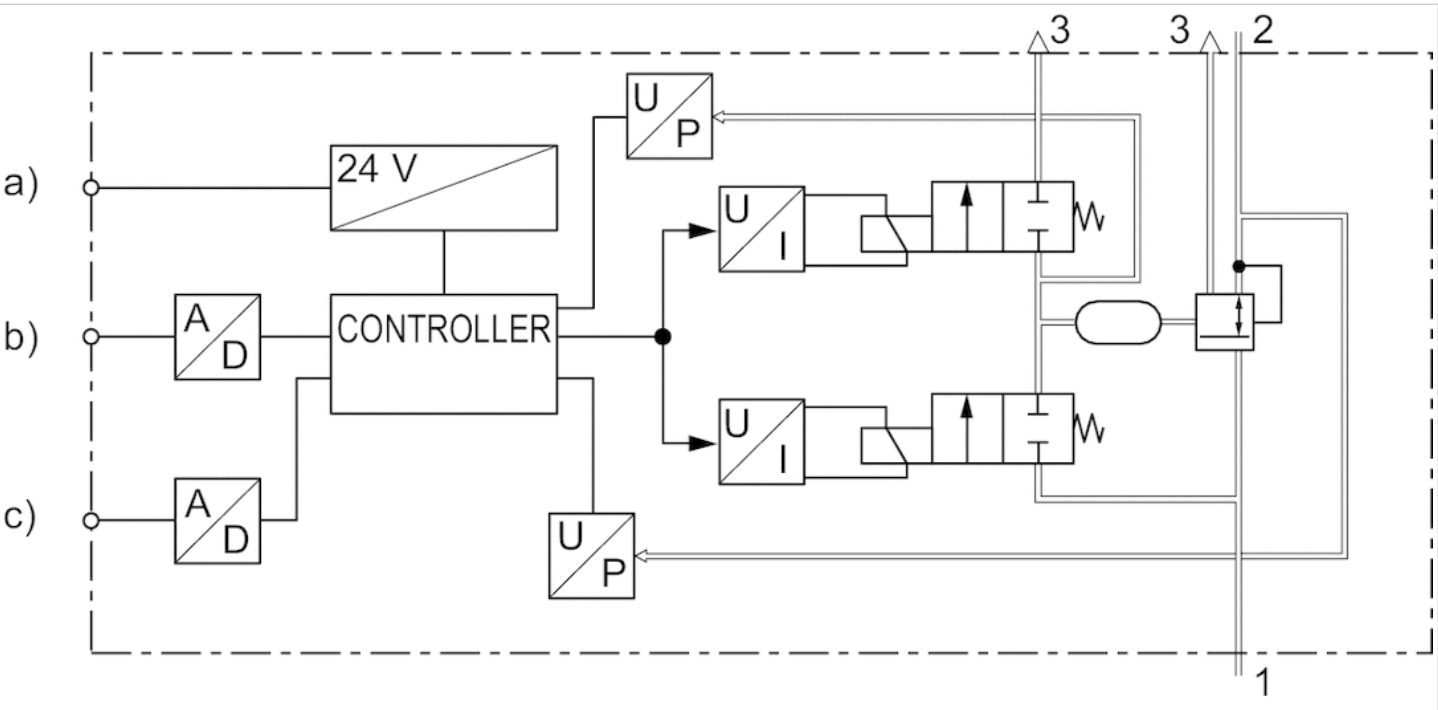
1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (ohmic load 100 Ω), actual output value: external ohmic load 300 Ω. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an 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



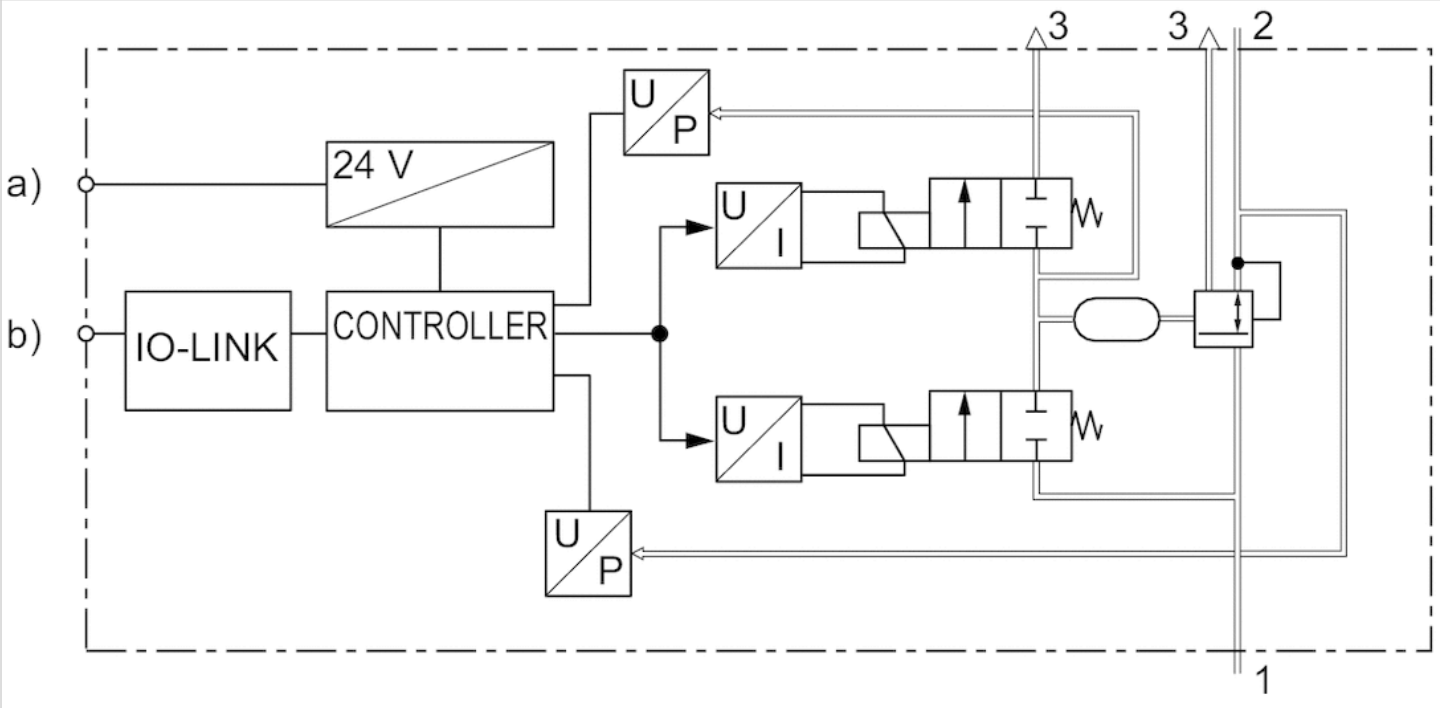
1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (R = 1 MΩ), actual output value: min. load resistance > 10 KΩ. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an external 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

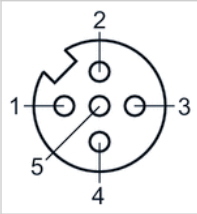
Functional diagram, IO-Link



a) Supply Voltage
b) C/Q Line

Pin assignments

Plug assignment

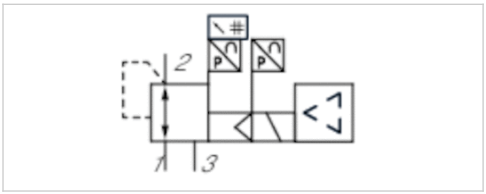


1) 24 V DC
2) Nominal input value
3) GND
4) Actual output value
5) Ground

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/m³
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	Compressed air connection	Nominal input value
	Input	Output	Min./max.
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	serial control
	Min./max.	
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).

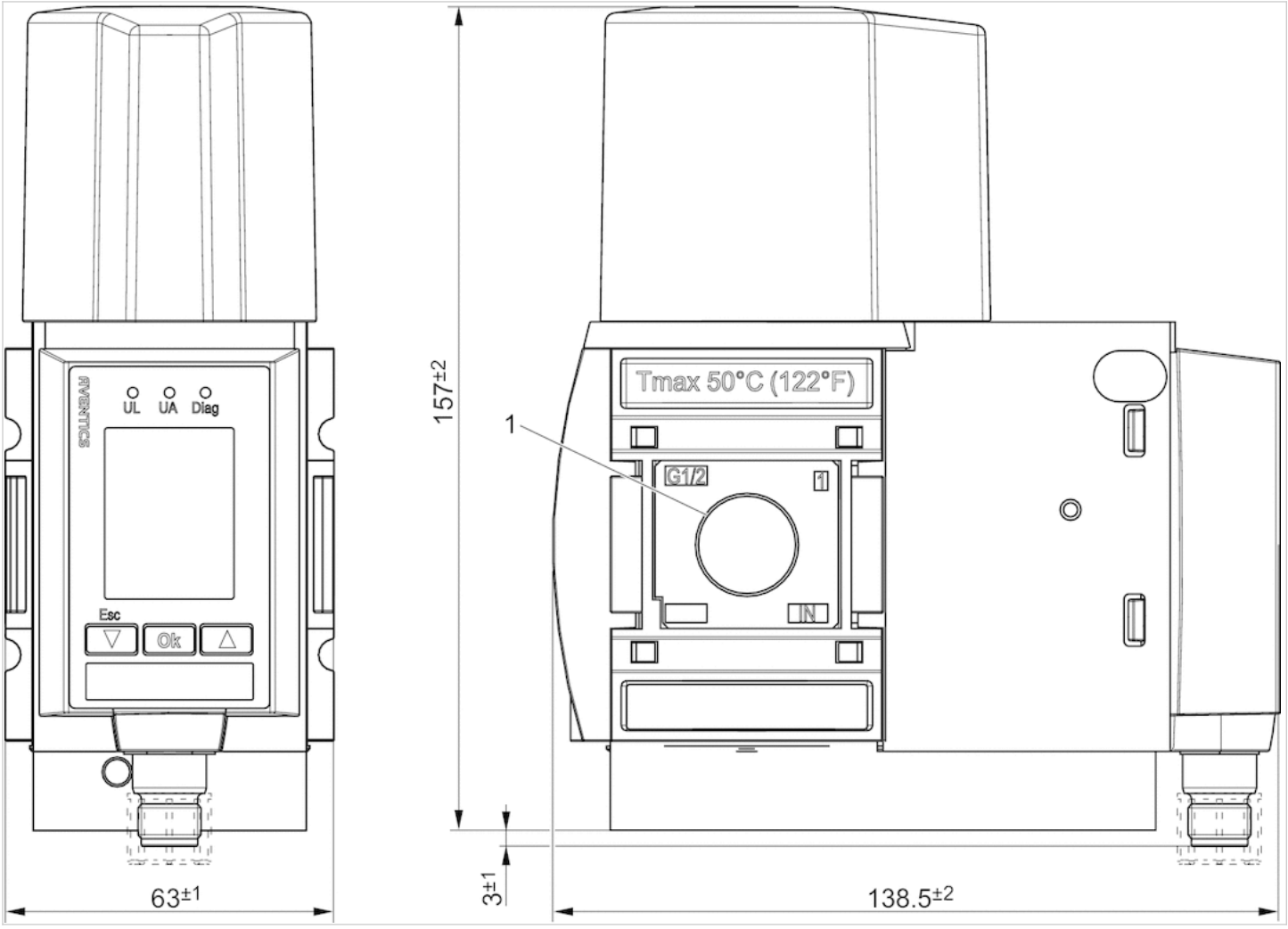
Power outage: maintain pressure

Technical information

Material	
Housing	Polyamide
Base plate	Aluminum
Seals	Nitrile butadiene rubber

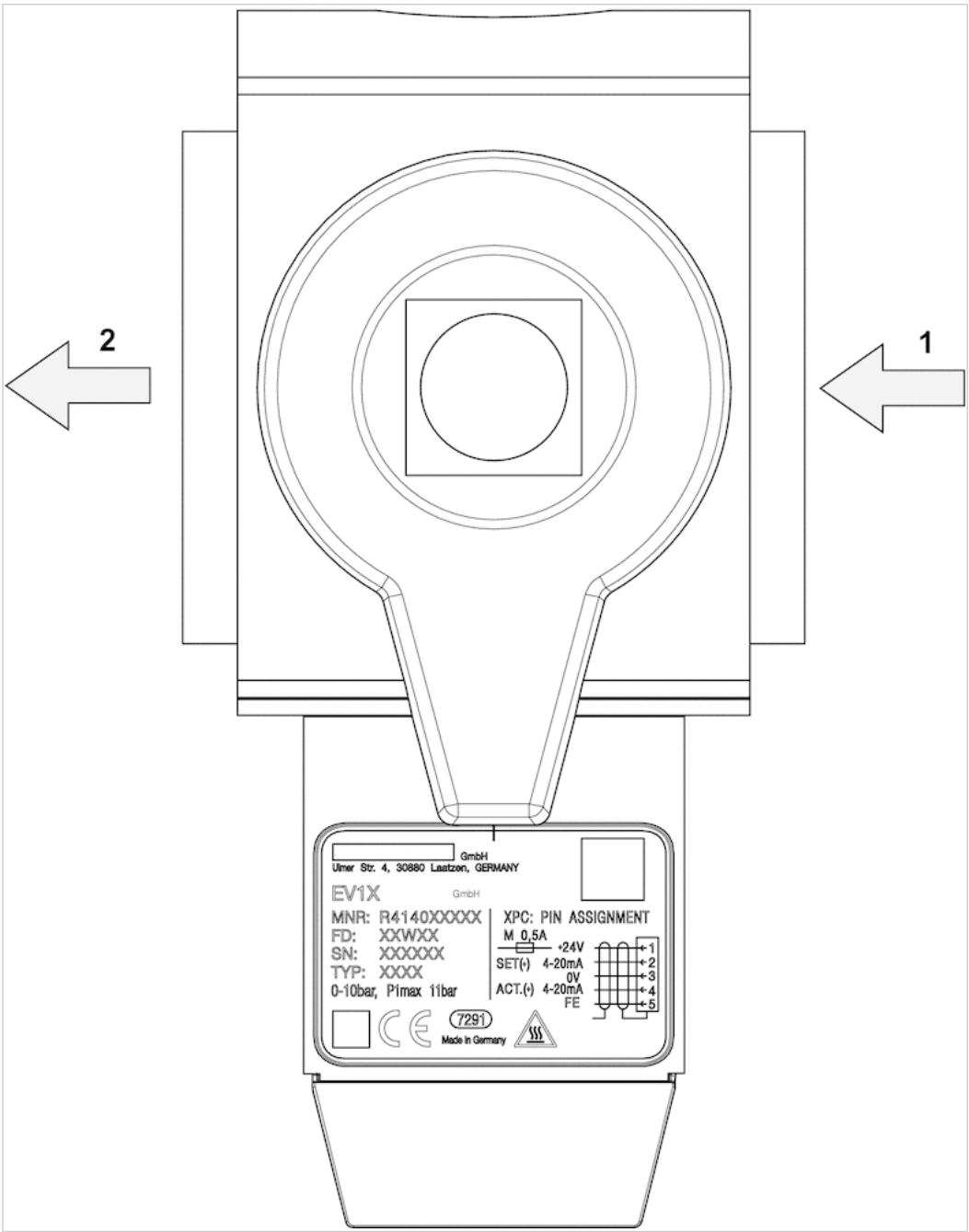
Dimensions

Dimensions



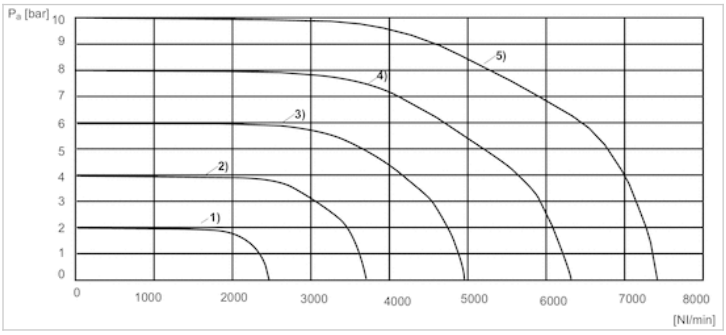
1) Connection thread

Pressure supply, right



Diagrams

Flow characteristic curve

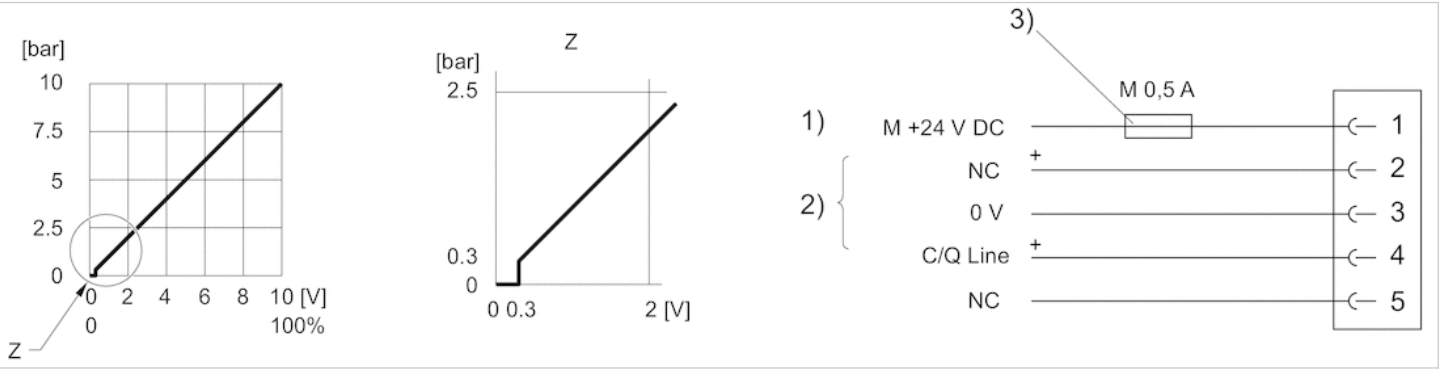


1) Pv = 3 bar

2)Pv = 5 bar
3)Pv = 7 bar
4) Pv = 9 bar
5)Pv = 11 bar
Pv = Supply pressure
Pa = Working pressure
Pv = Pa + 1

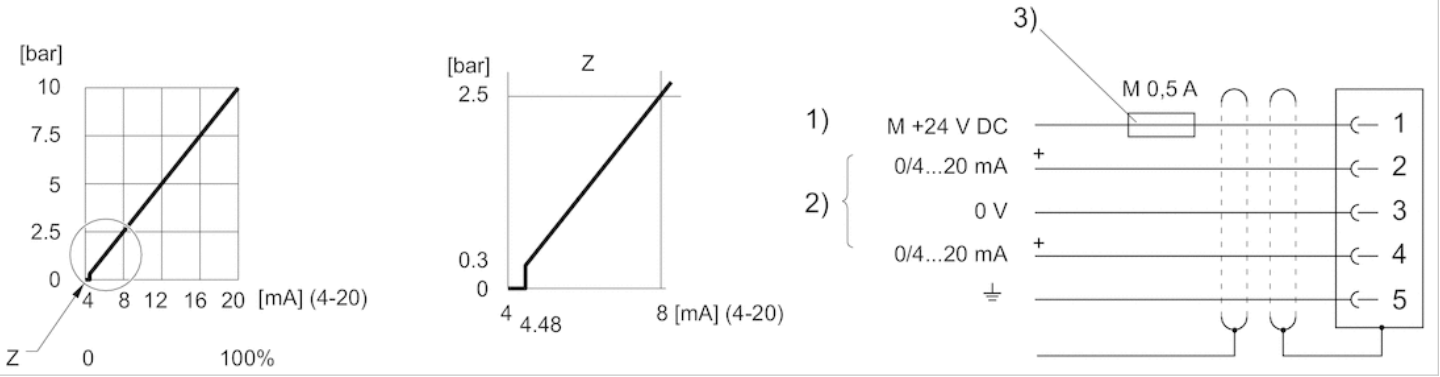
Circuit diagram

Characteristic curve and plug assignment for IO-Link version



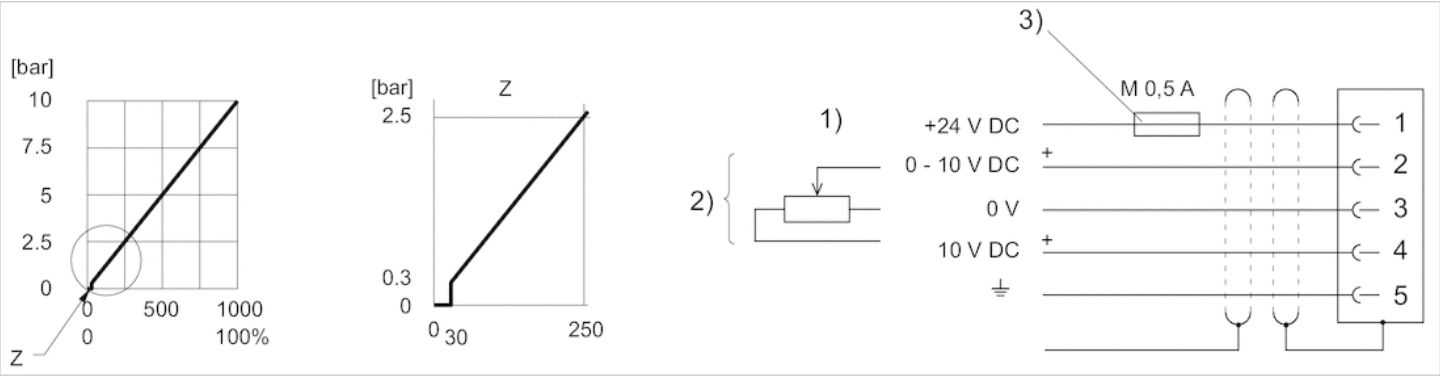
1) power supply
2) C/Q Line (pin 4) Not connected (NC) (pin 2) are related to 0 V (pin 3).
3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for current control with actual output value



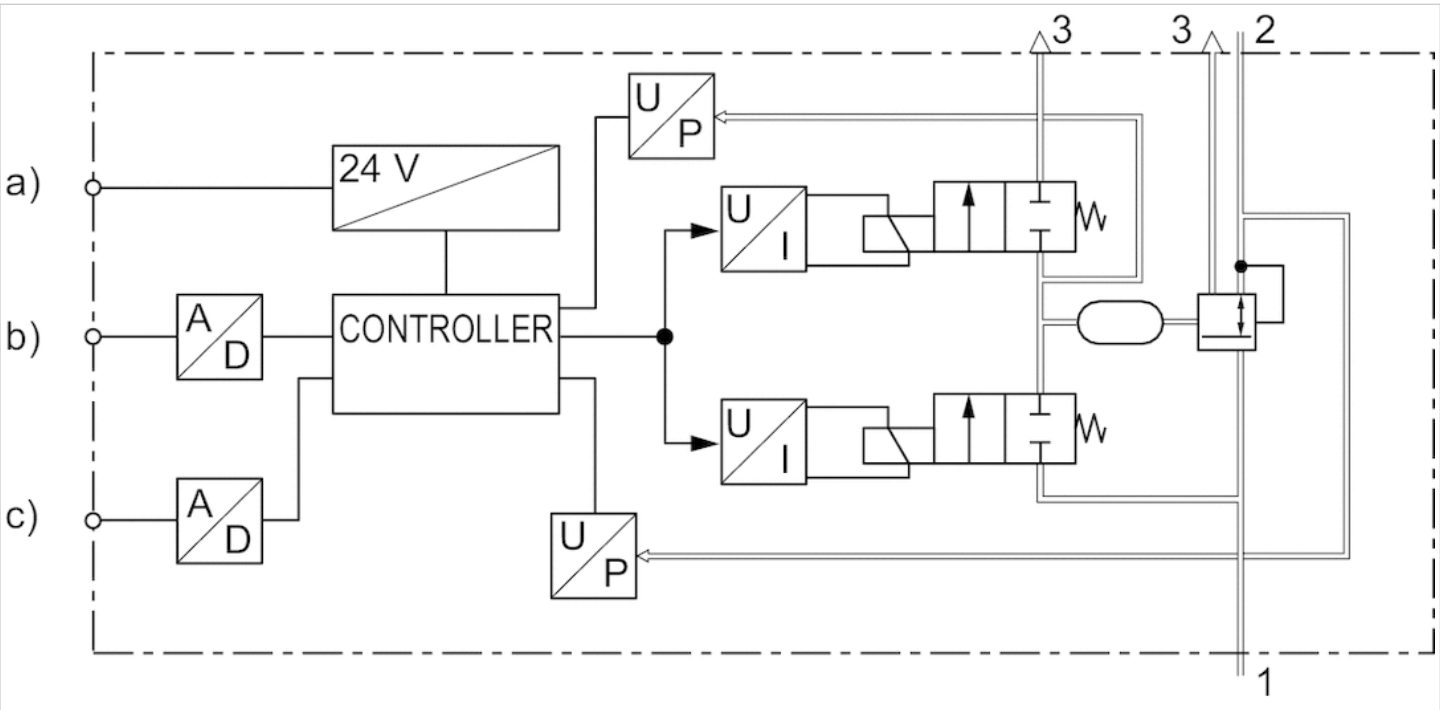
1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (ohmic load 100 Ω), actual output value: external ohmic load 300 Ω. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an 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



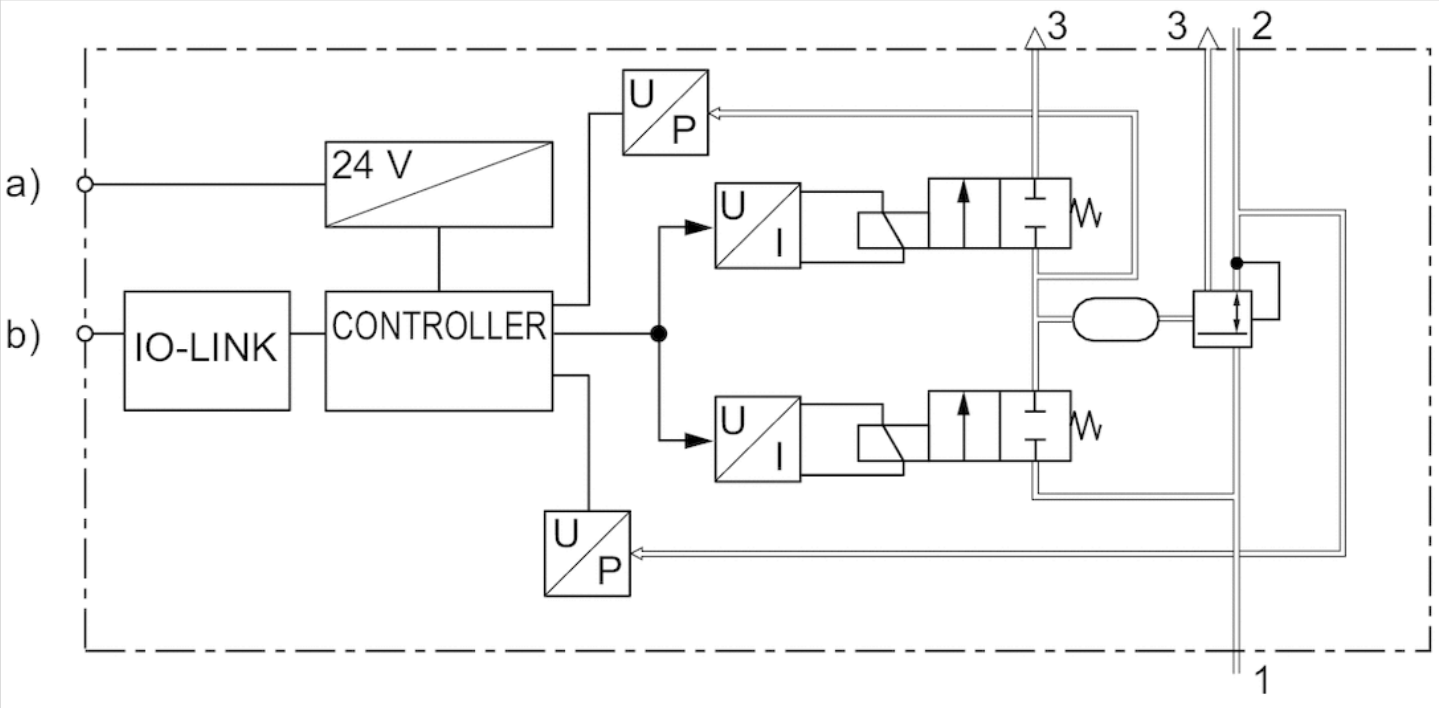
1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (R = 1 MΩ), actual output value: min. load resistance > 10 KΩ. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an external 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

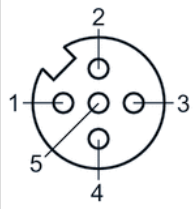
Functional diagram, IO-Link



a) Supply Voltage
b) C/Q Line

Pin assignments

Plug assignment

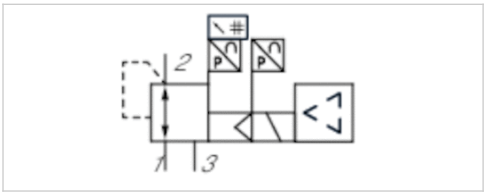


1) 24 V DC
2) Nominal input value
3) GND
4) Actual output value
5) Ground

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/m³
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	Compressed air connection	Nominal input value
	Input	Output	Min./max.
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).

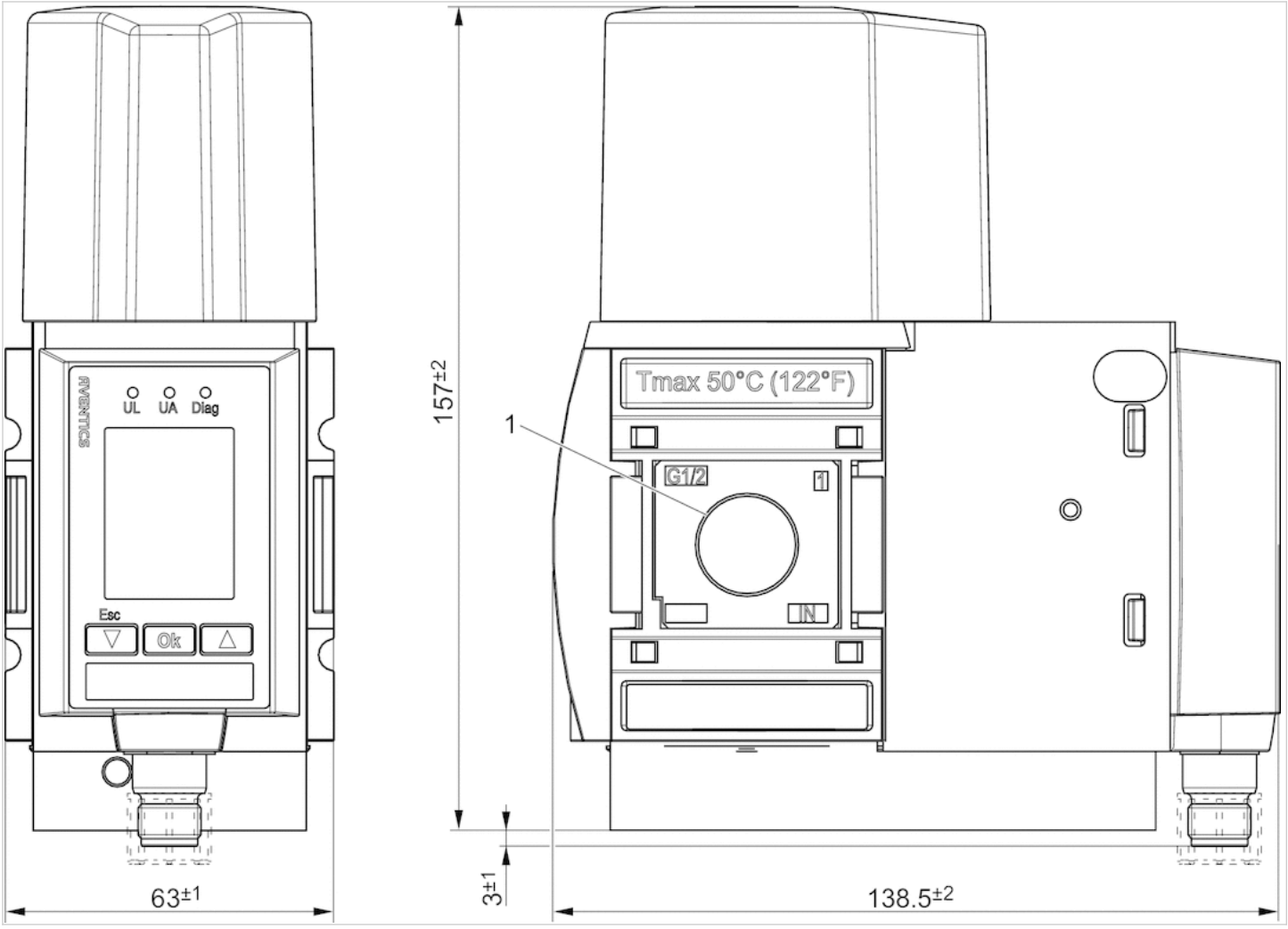
Power outage: maintain pressure

Technical information

Material	
Housing	Polyamide
Base plate	Aluminum
Seals	Nitrile butadiene rubber

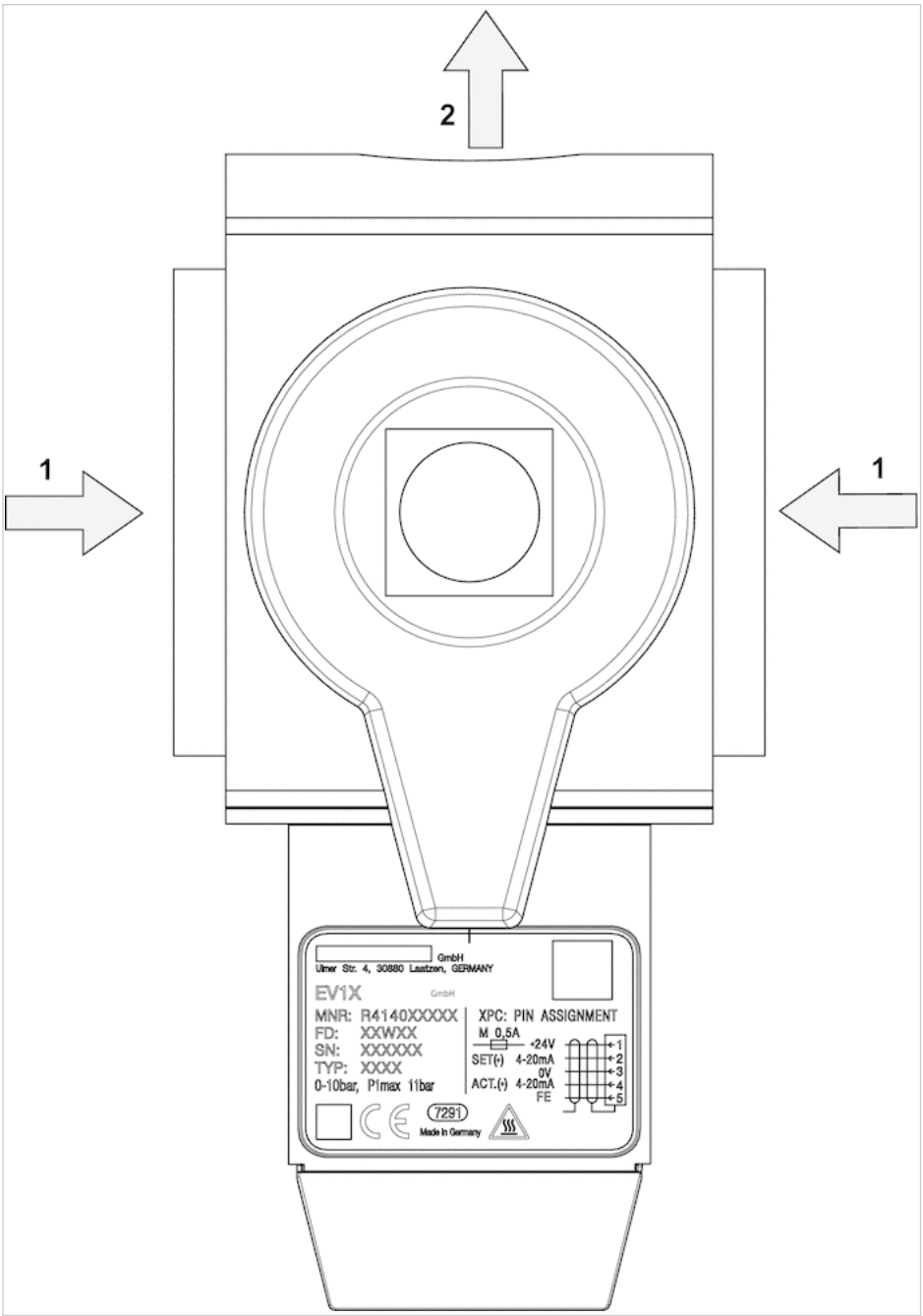
Dimensions

Dimensions



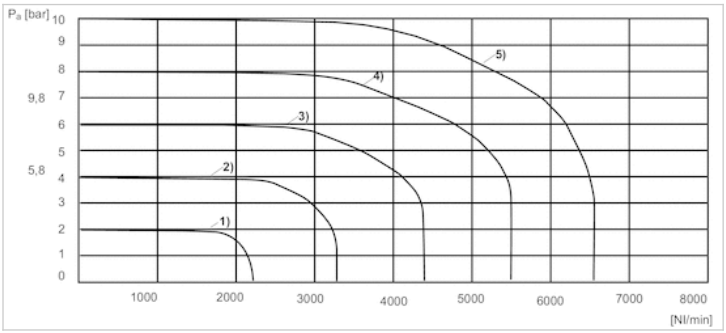
1) Connection thread

Continuous pressure supply



Diagrams

Flow characteristic curve

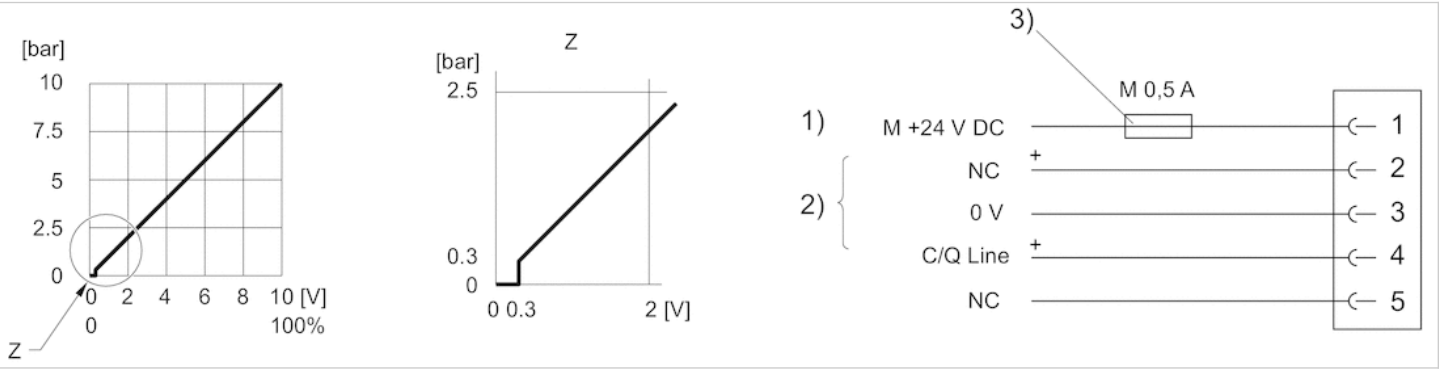


1) Pv = 3 bar

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Pv = Supply pressure
Pa = Working pressure
Pv = Pa + 1

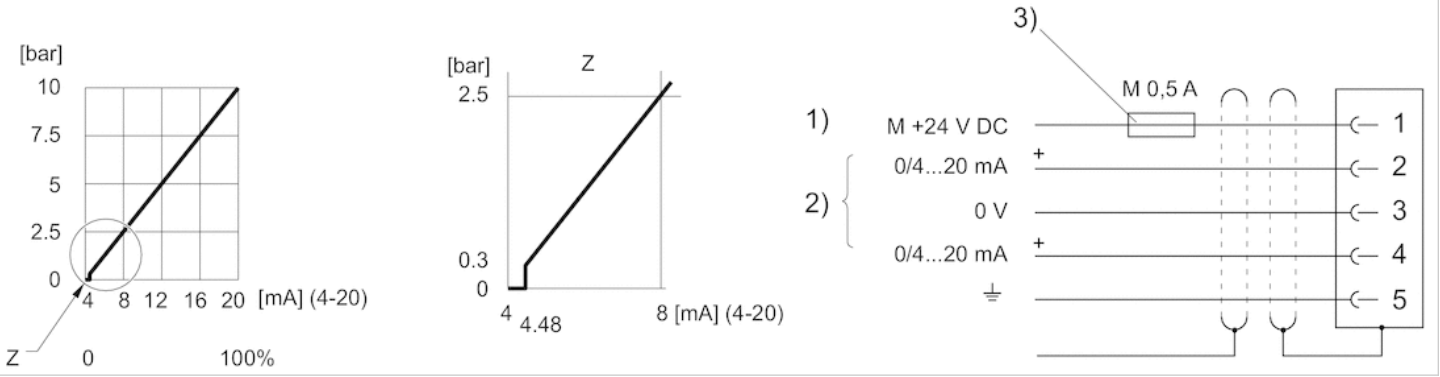
Circuit diagram

Characteristic curve and plug assignment for IO-Link version



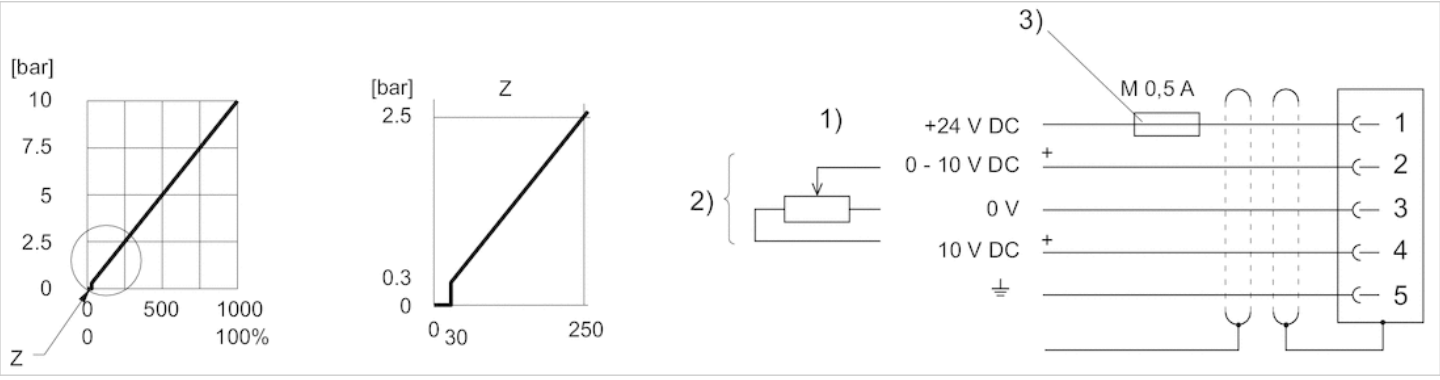
1) power supply
2) C/Q Line (pin 4) Not connected (NC) (pin 2) are related to 0 V (pin 3).
3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for current control with actual output value



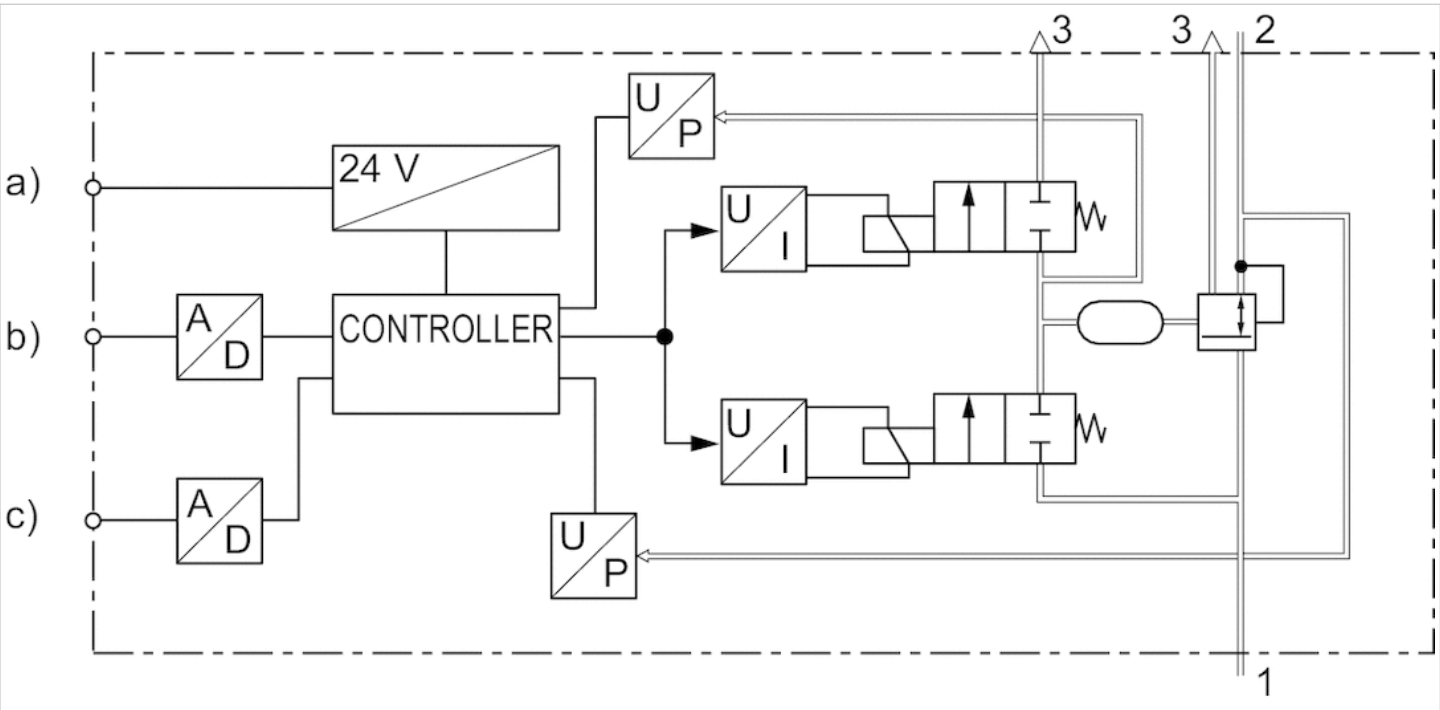
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3) The power supply must be protected by an external M 0.5 A fuse.
Connect the plug via a shielded cable to ensure EMC.

Characteristic and pin assignment for voltage control with actual output value



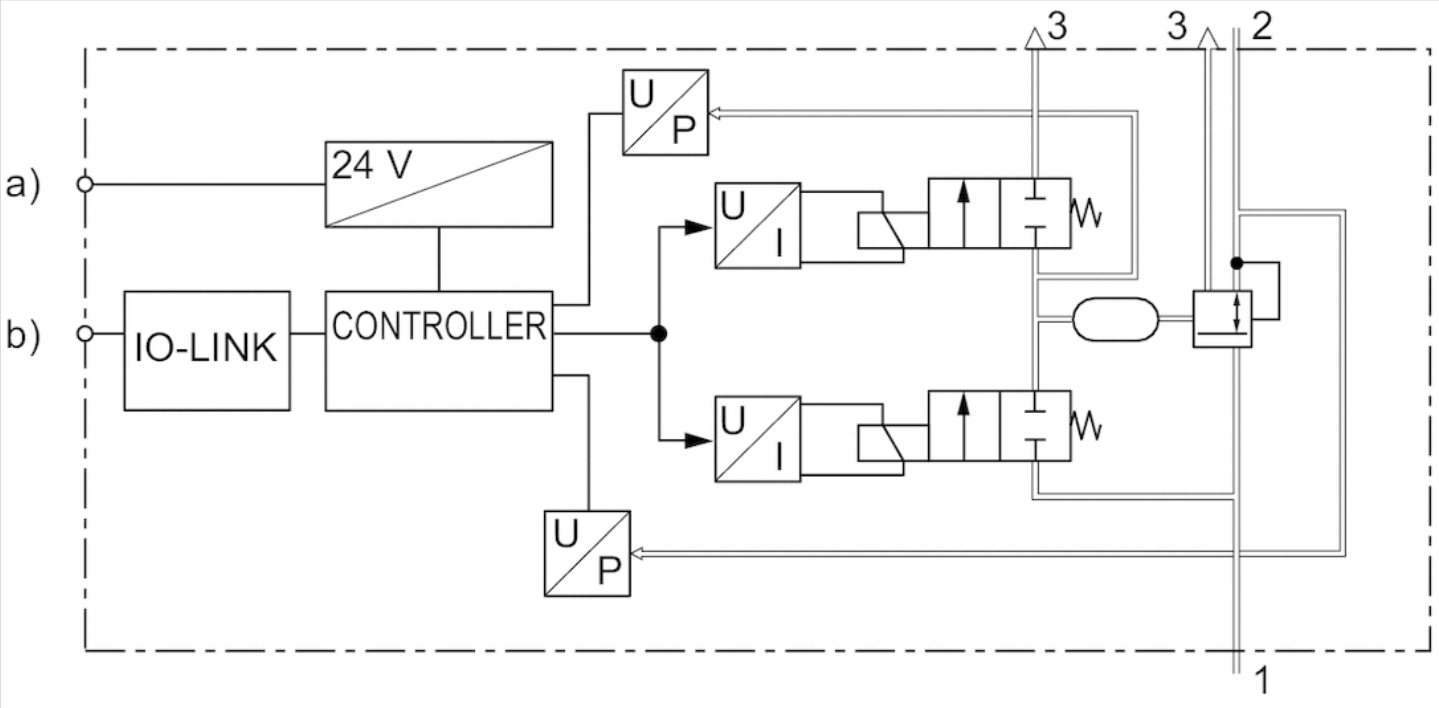
1) power supply
2) Actual value (pin 4) and nominal value (pin 2) are related to 0 V (pin 3).
Nominal input value (R = 1 MΩ), actual output value: min. load resistance > 10 KΩ. If the power supply is switched off, the nominal input value is high-ohmic.
3) The power supply must be protected by an external 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

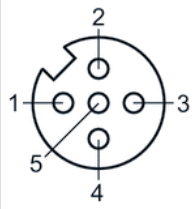
Functional diagram, IO-Link



a) Supply Voltage
b) C/Q Line

Pin assignments

Plug assignment

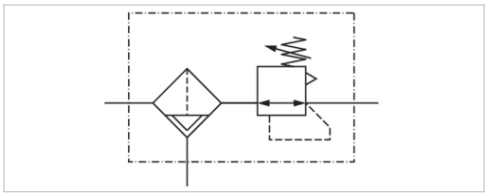


1) 24 V DC
2) Nominal input value
3) GND
4) Actual output value
5) Ground

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	with relieving air exhaust
range min./max. Pressure	See table below
supply	single
Filter reservoir volume	49 cm³
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 : -

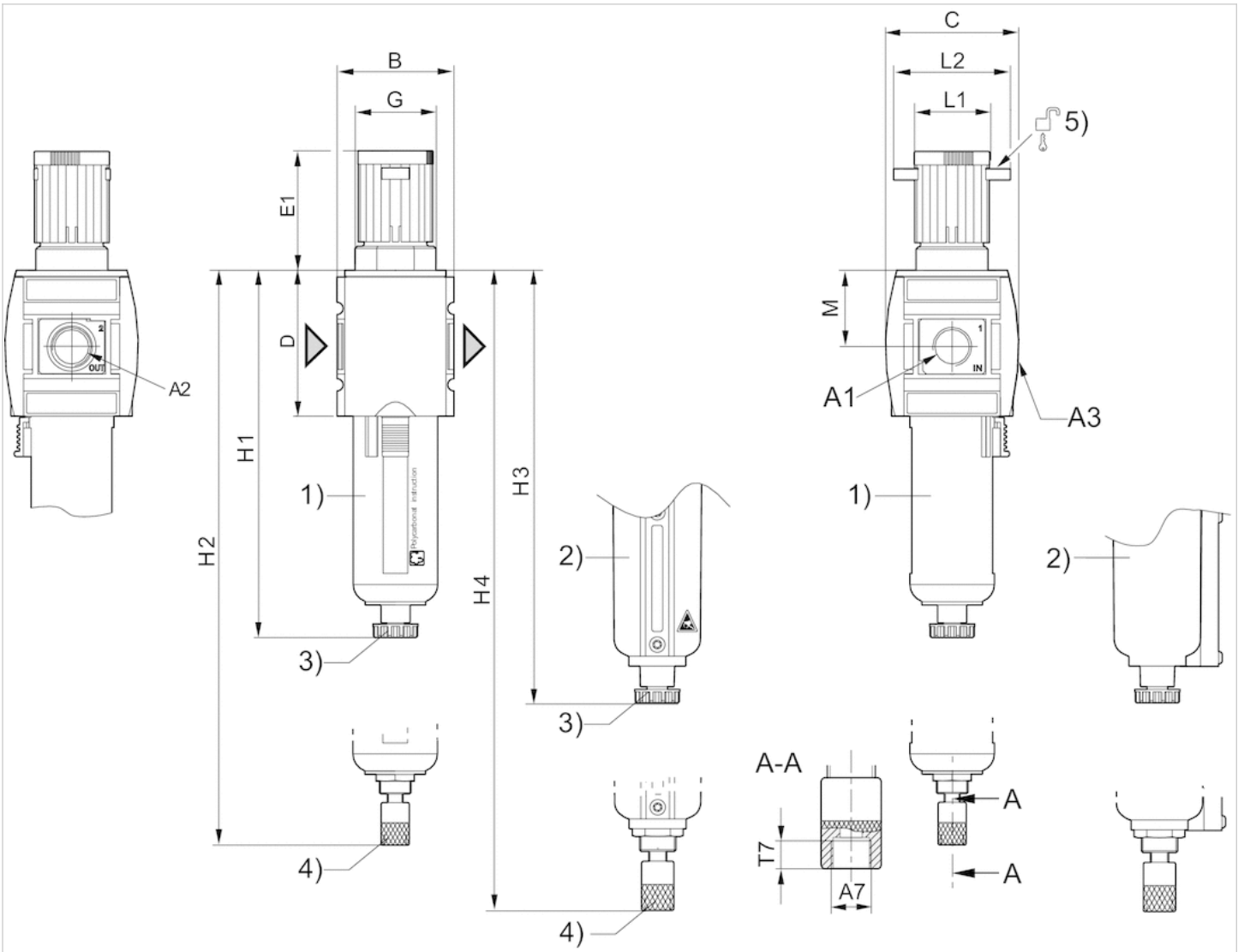
Technical information

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



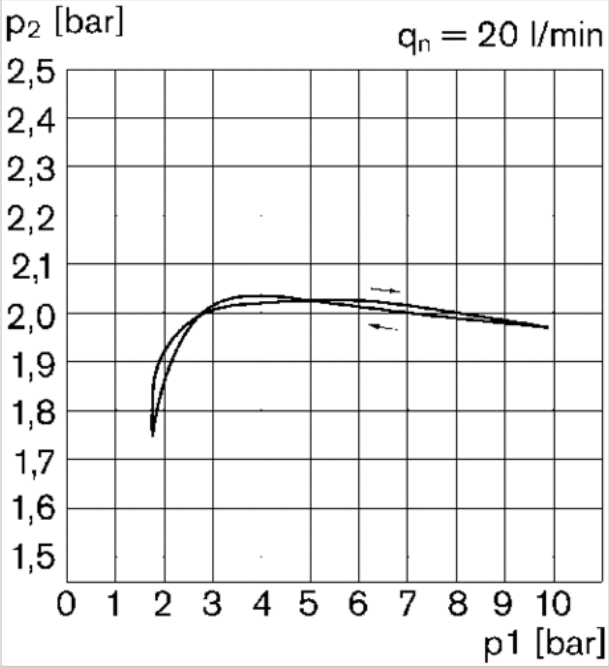
A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) Mounting option for padlocks, max. shackle Ø 8

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

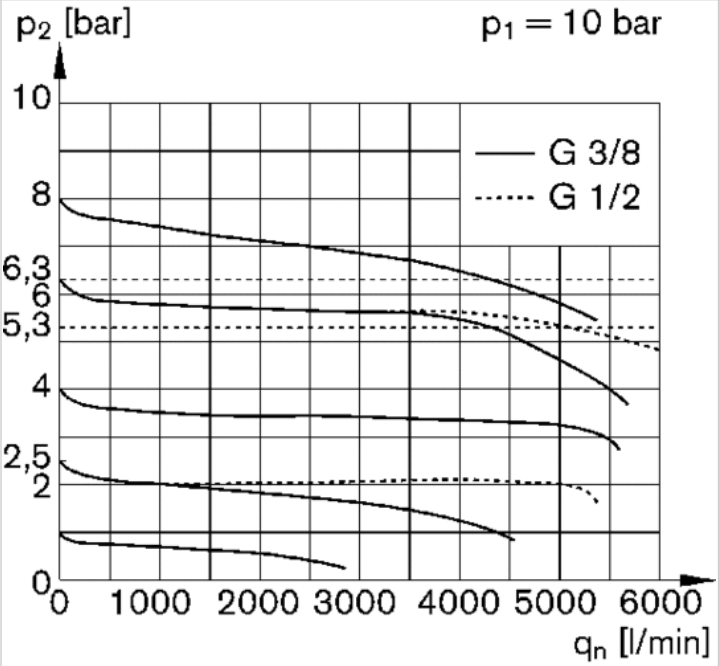
Diagrams

Pressure characteristics curve



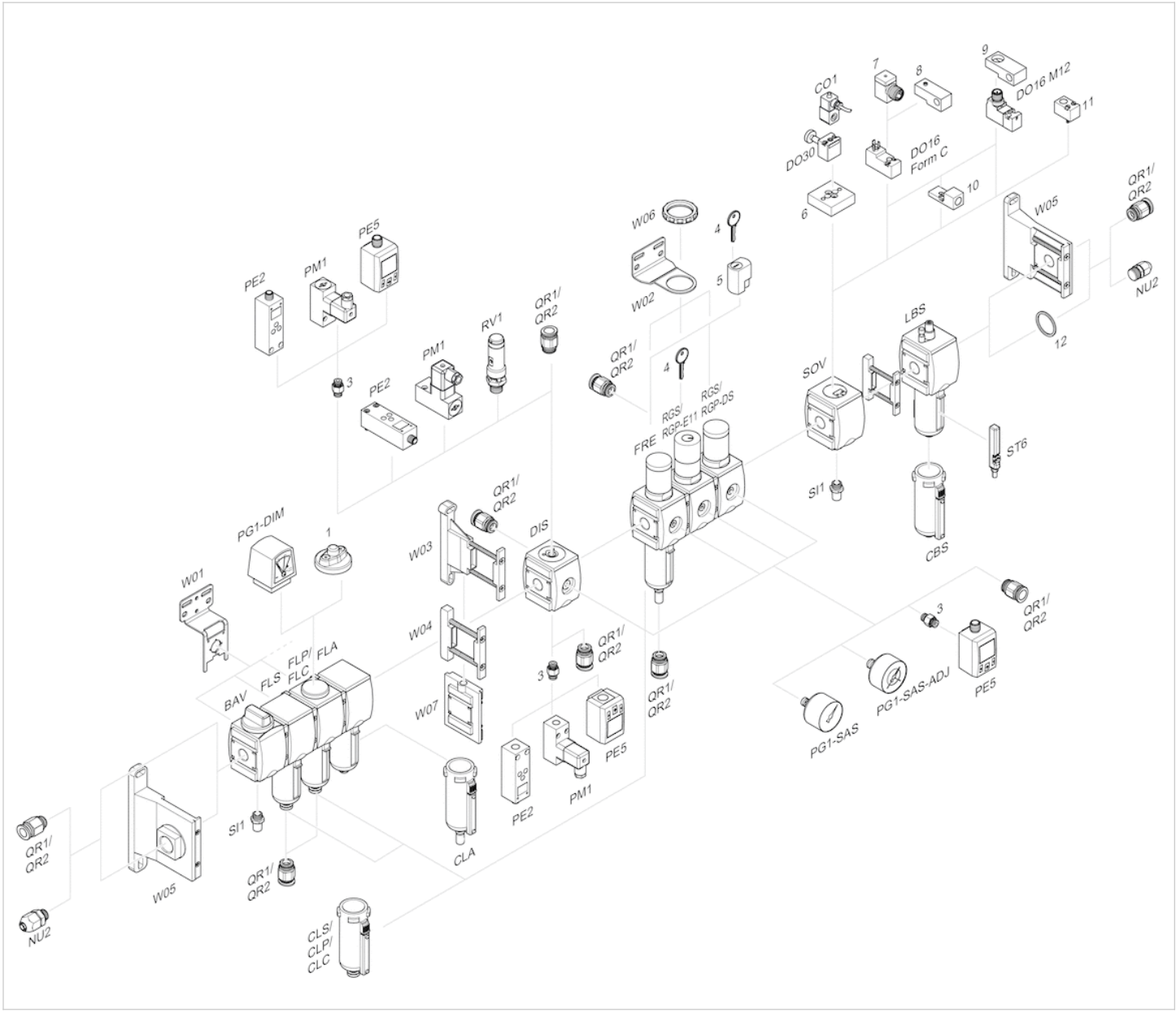
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

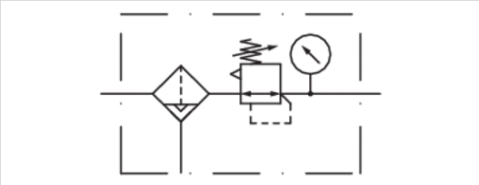


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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	with relieving air exhaust
range min./max. Pressure	See table below
supply	single
Filter reservoir volume	49 cm³
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 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 6 : 7 : -

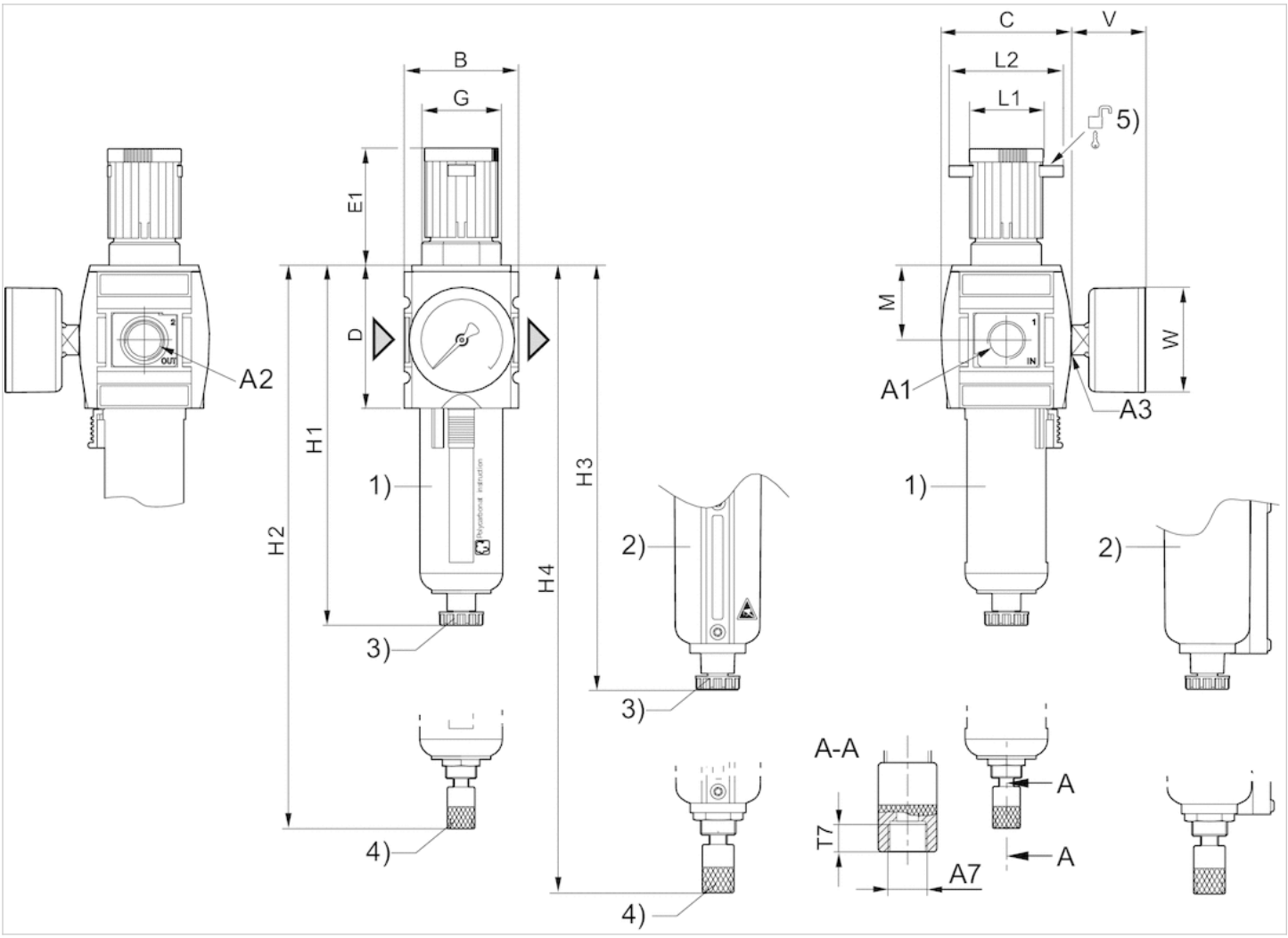
Technical information

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



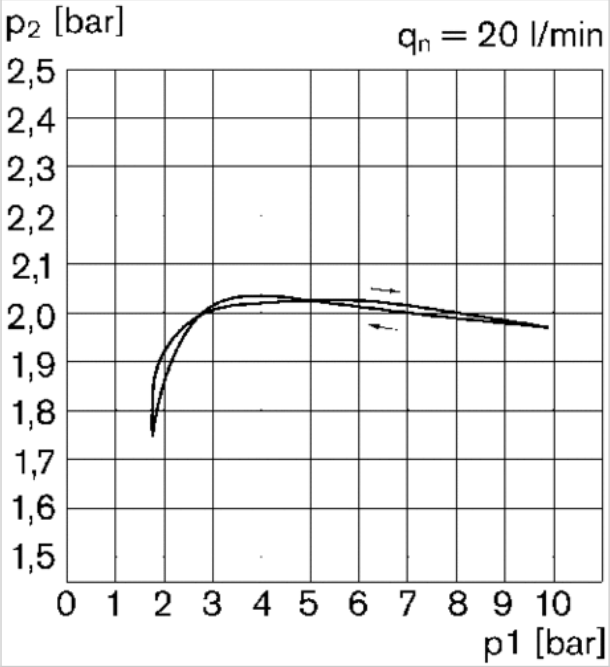
A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) Mounting option for padlocks, max. shackle Ø 8

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

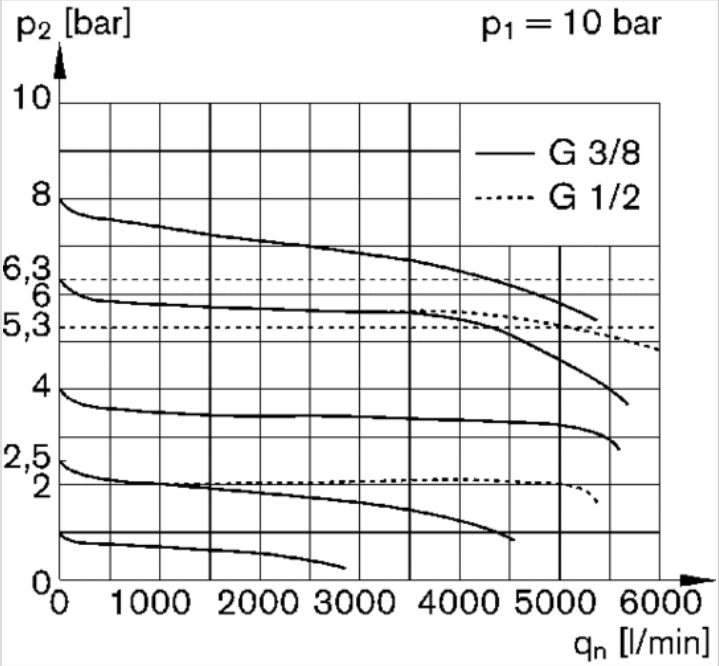
Diagrams

Pressure characteristics curve



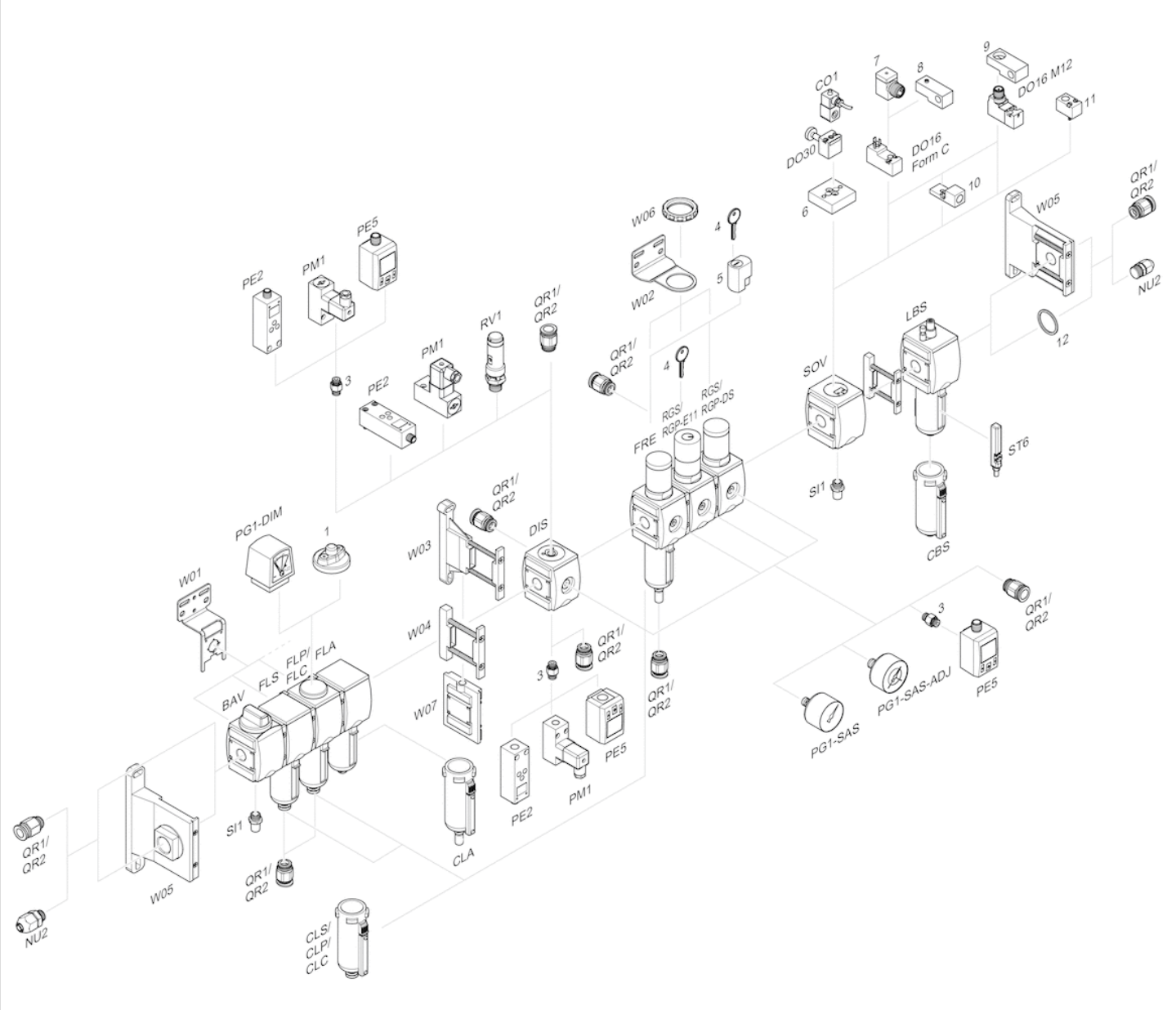
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

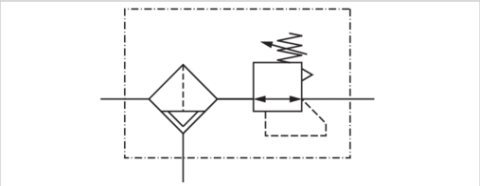


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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 cm³
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 : -

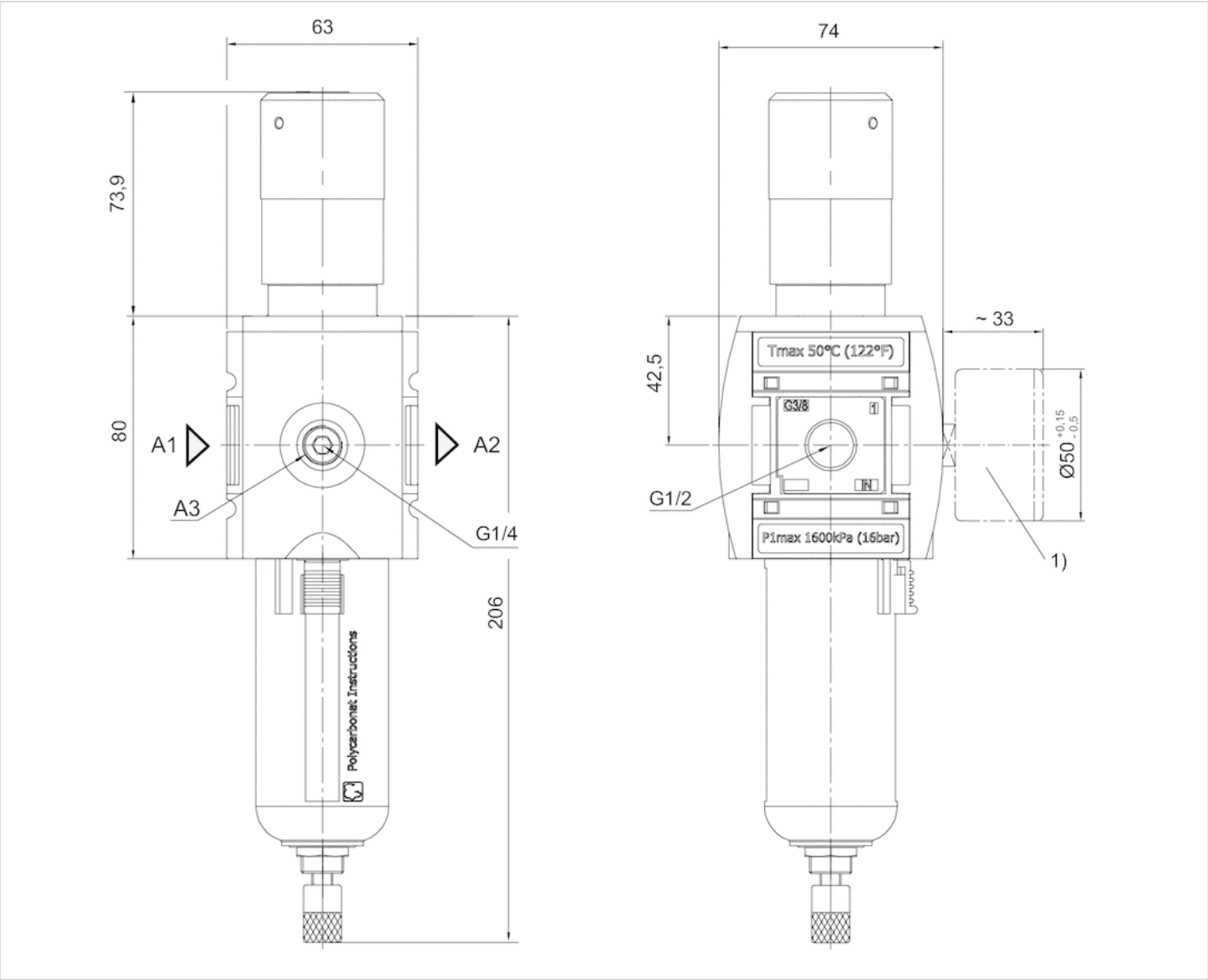
Technical information

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

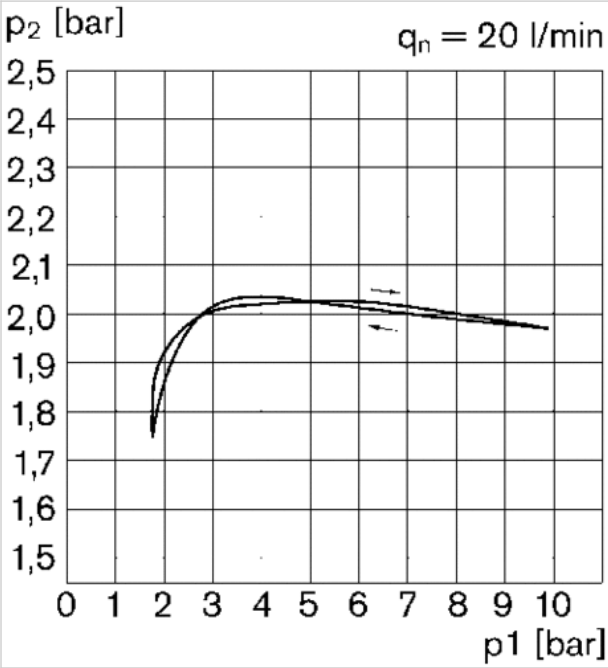
Dimensions



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

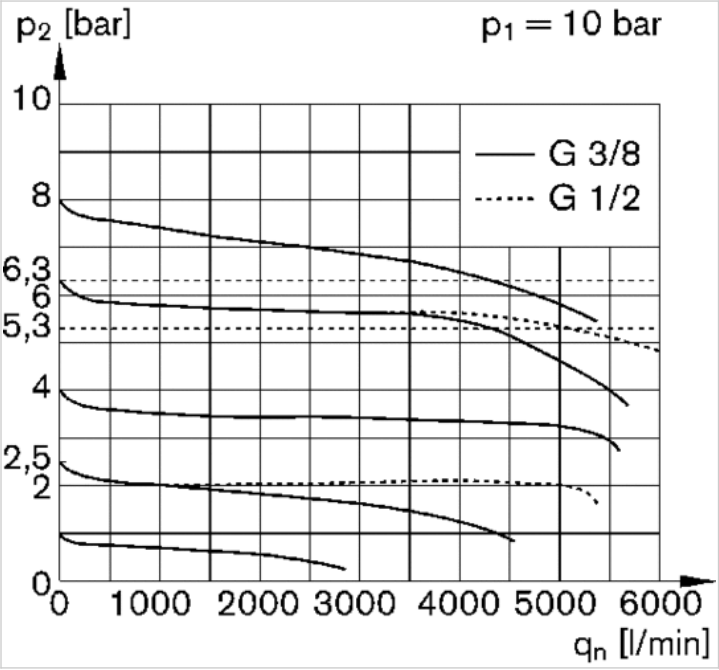
Diagrams

Pressure characteristics curve



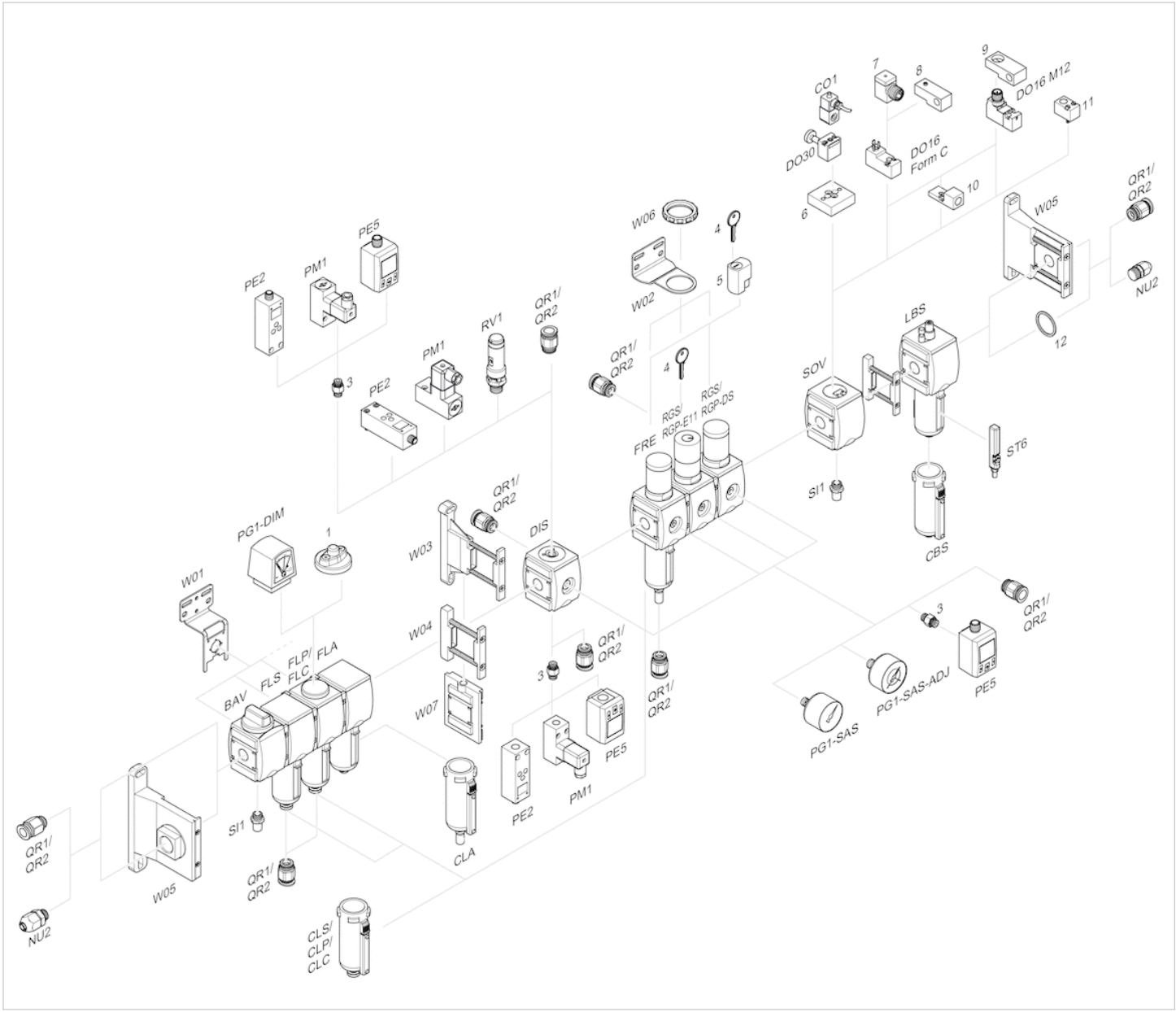
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

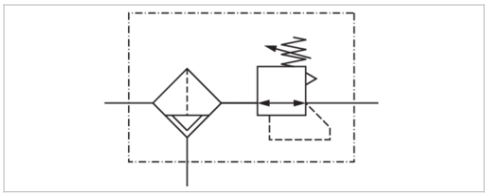


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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	with relieving air exhaust
range min./max. Pressure	0.5 ... 8 bar
supply	single
Filter reservoir volume	49 cm³
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.

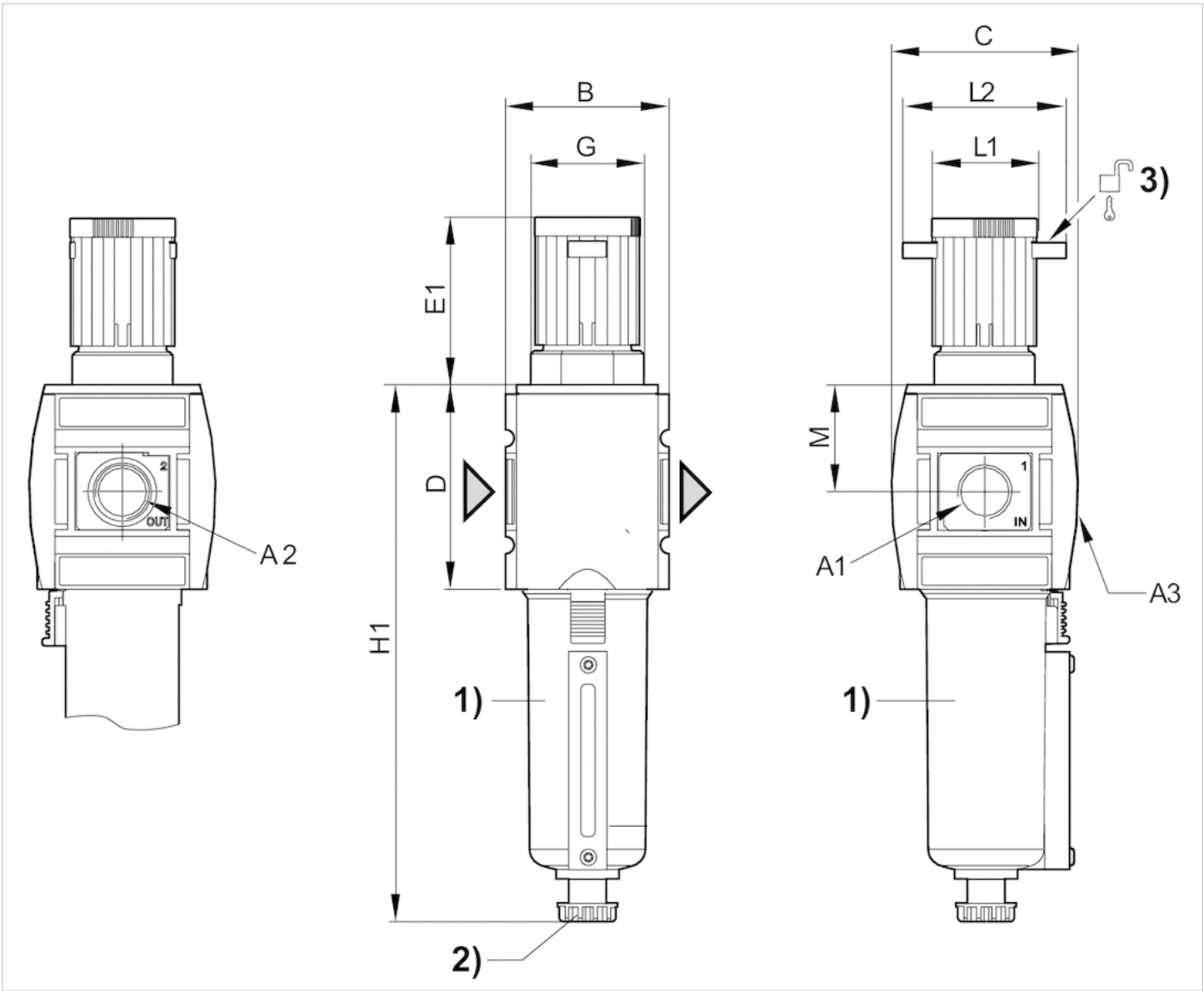
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

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

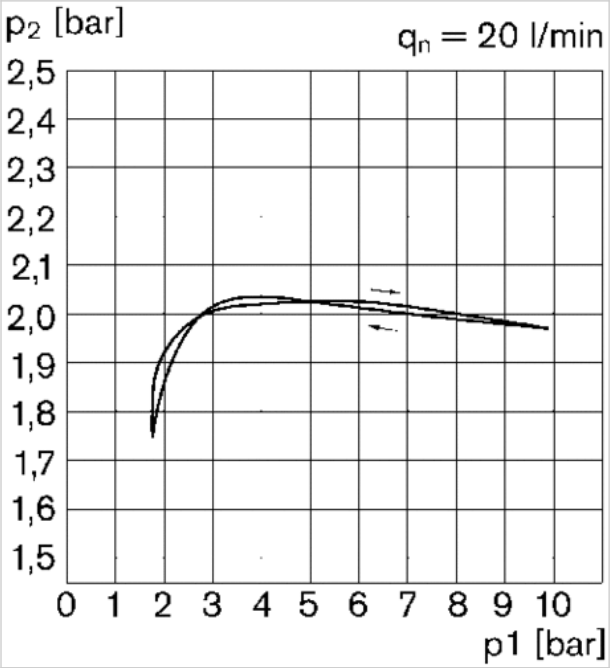
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain
3) Mounting option for padlocks, max. shackle Ø 8

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

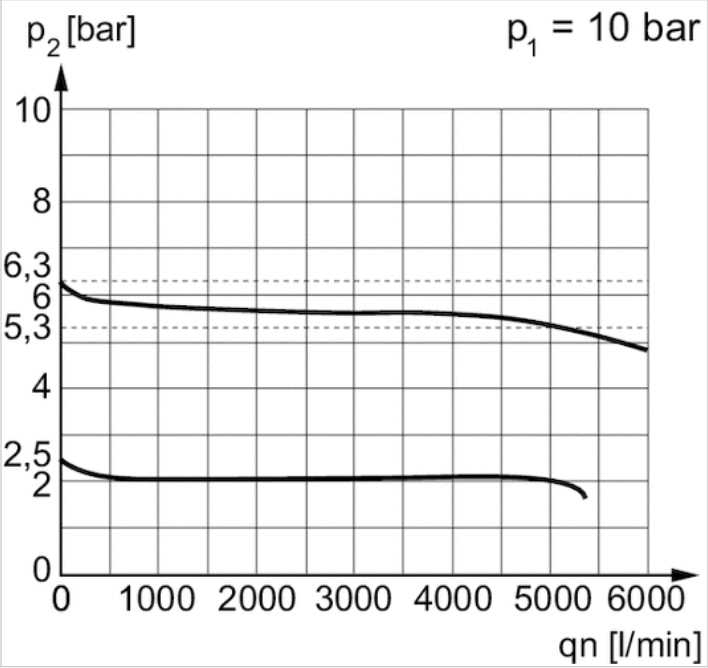
Diagrams

Pressure characteristics curve



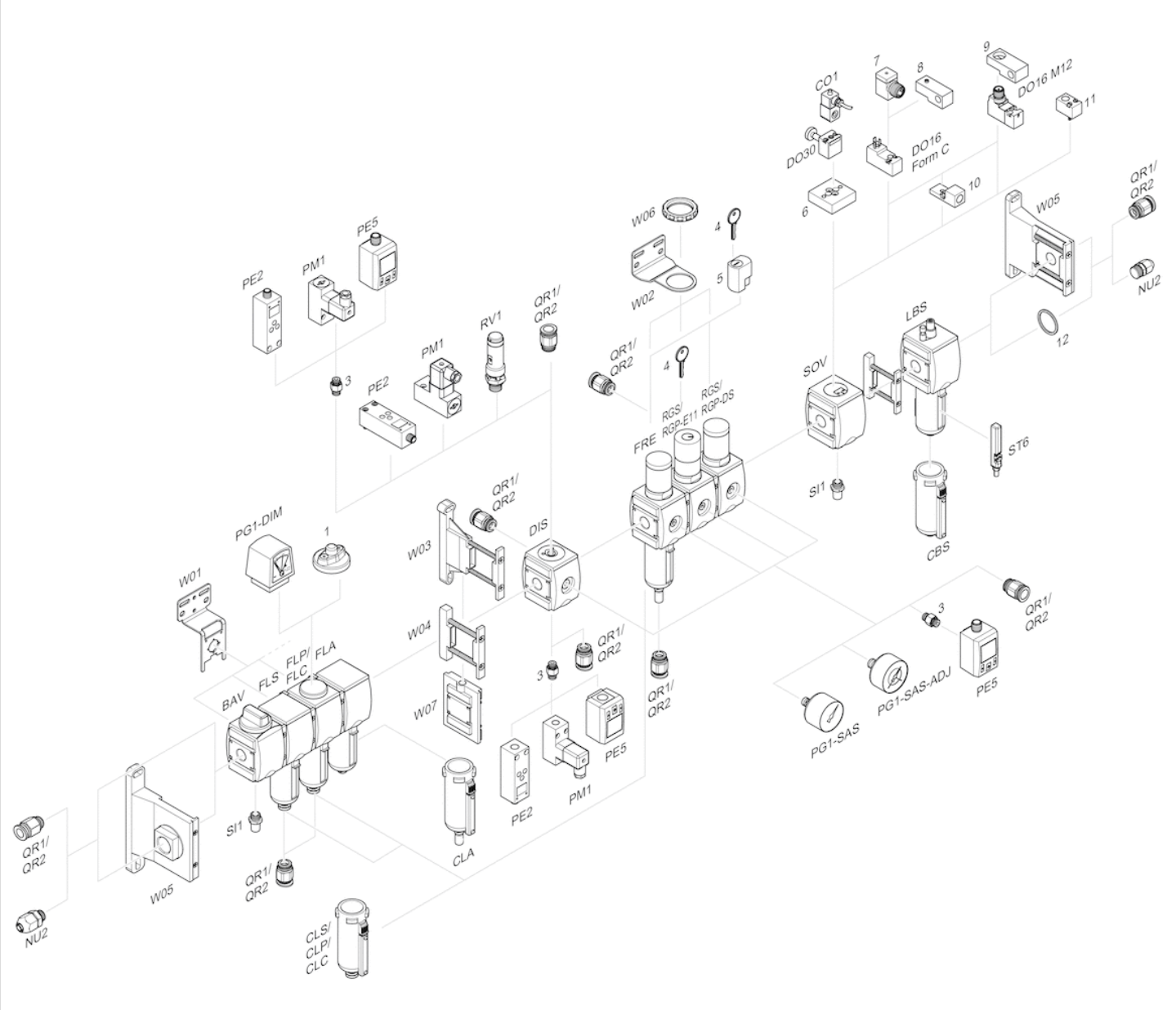
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

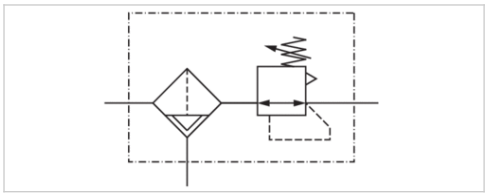


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Filter pressure regulator, Series AS3-FRE

- G 3/8 G 1/2
- filter porosity 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	with relieving air exhaust
range min./max. Pressure	0.5 ... 10 bar
supply	single
Filter reservoir volume	49 cm³
Filter element	exchangeable
Weight	See table below

Technical data

Part No.	Port	filter porosity	Flow Qn	Condensate drain	Weight
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.

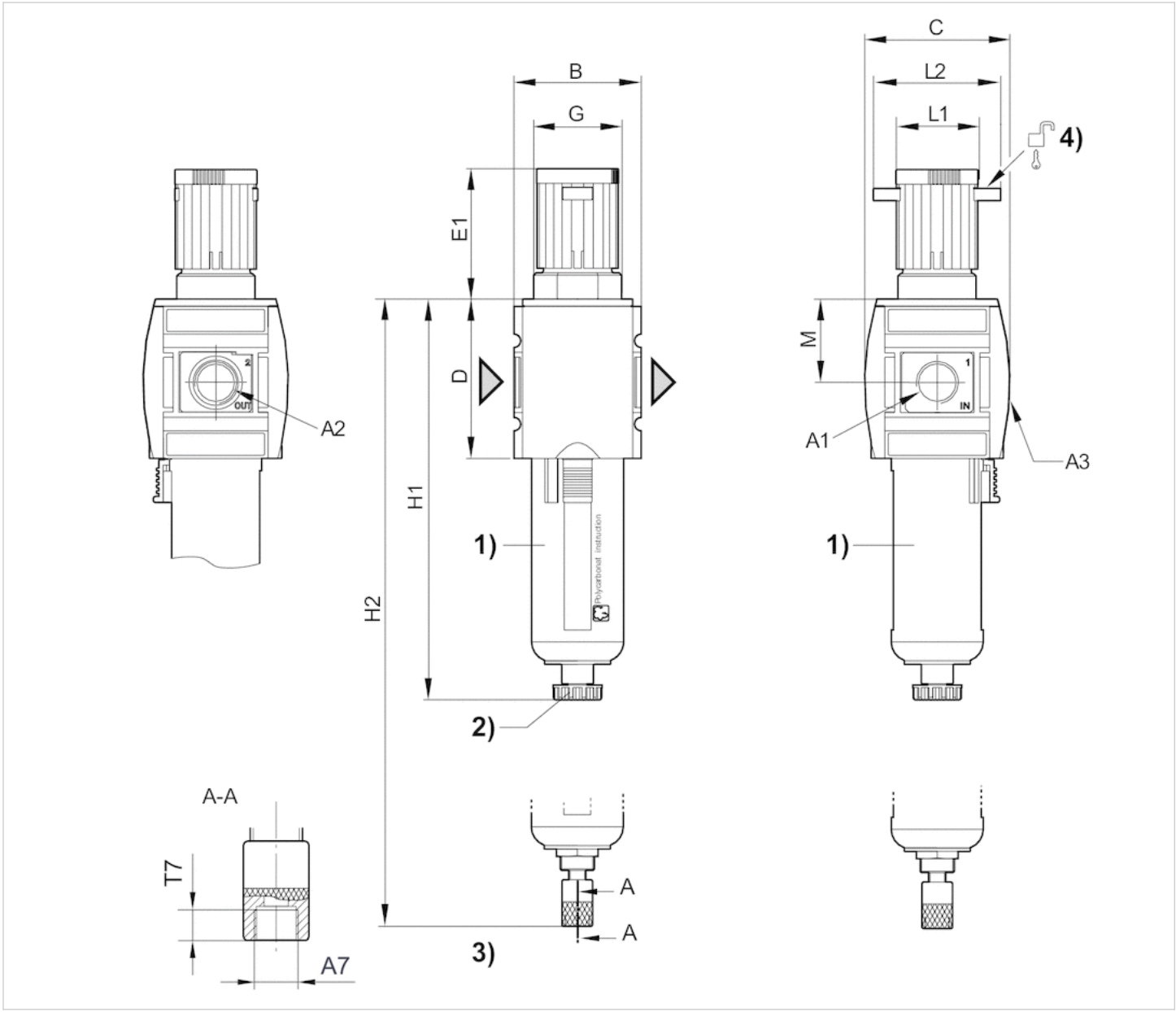
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

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



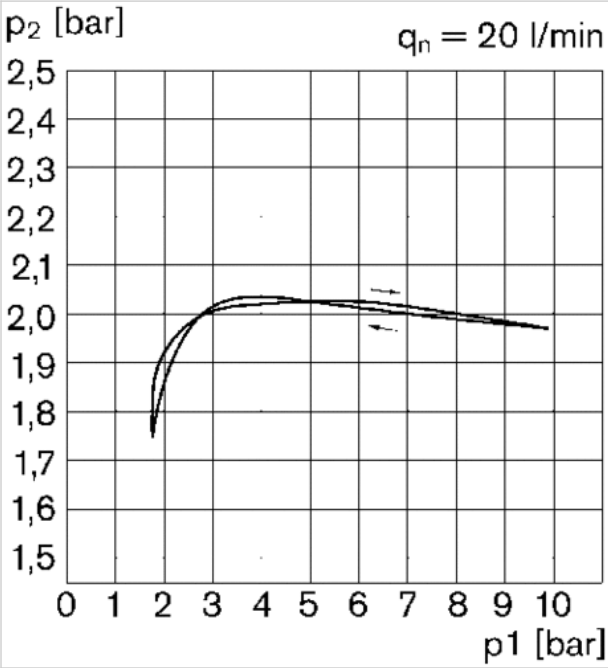
A1 = input
A2 = output
A3 = pressure gauge connection
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain
3) Fully automatic condensate drain
4) Mounting option for padlocks, max. shackle Ø 8

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

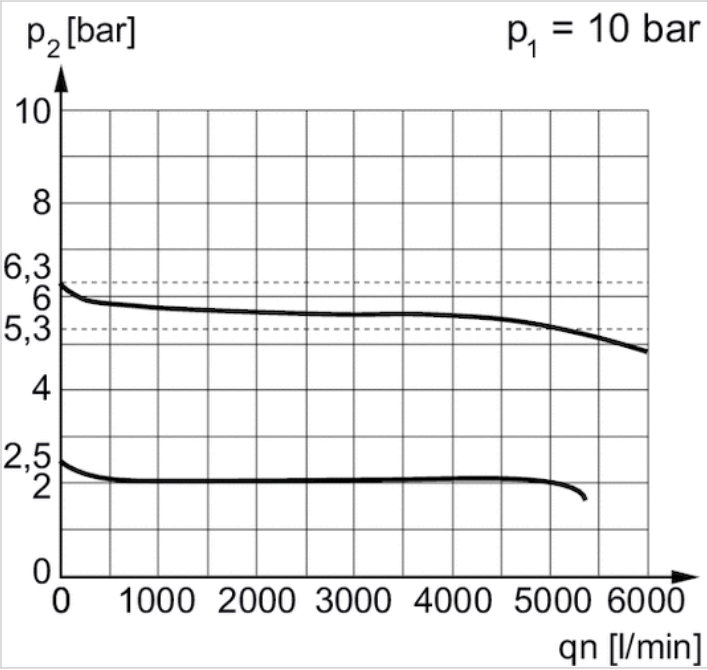
Diagrams

Pressure characteristics curve



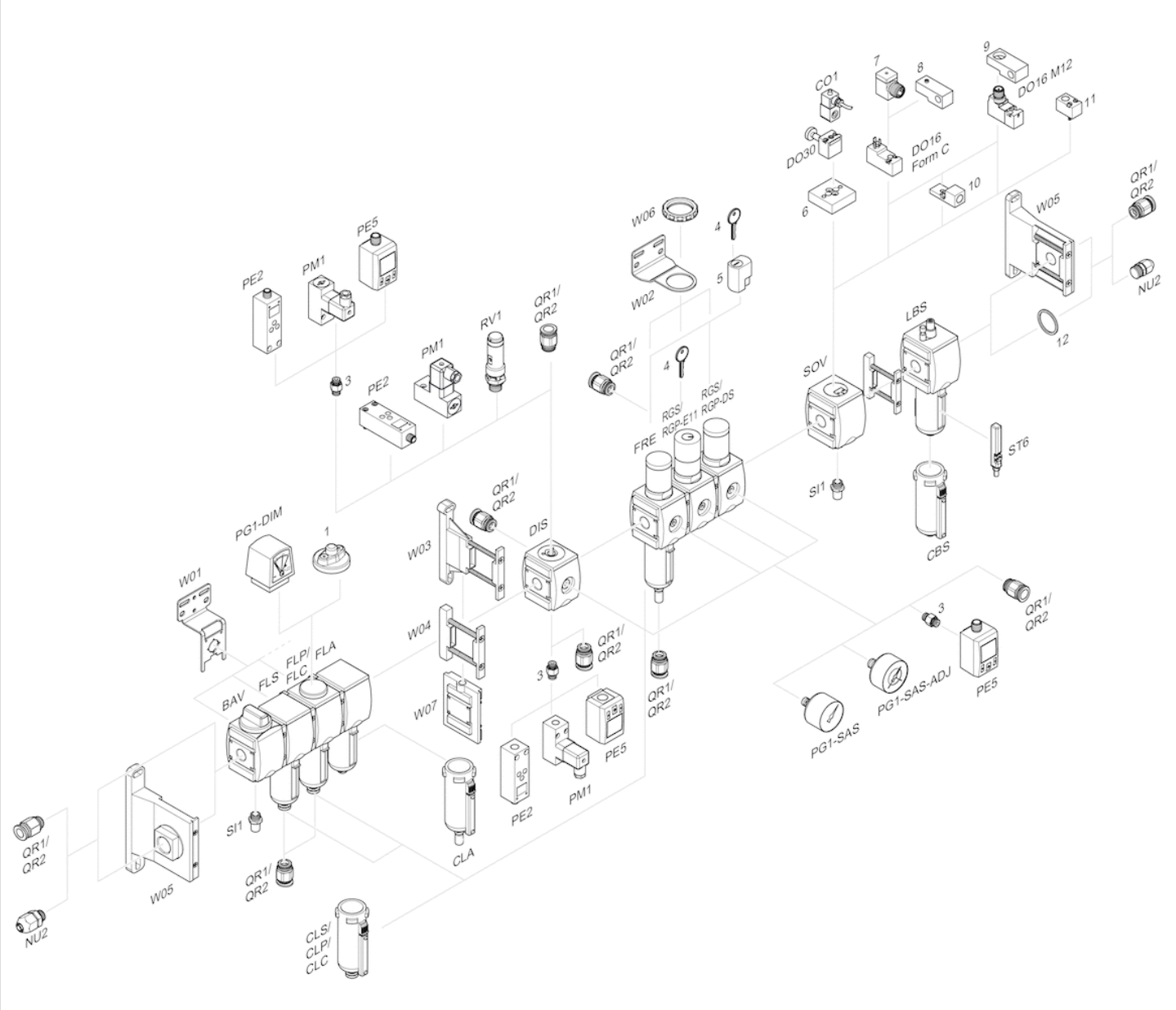
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

Accessories overview

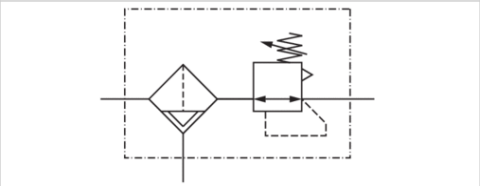


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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 cm³
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 : -

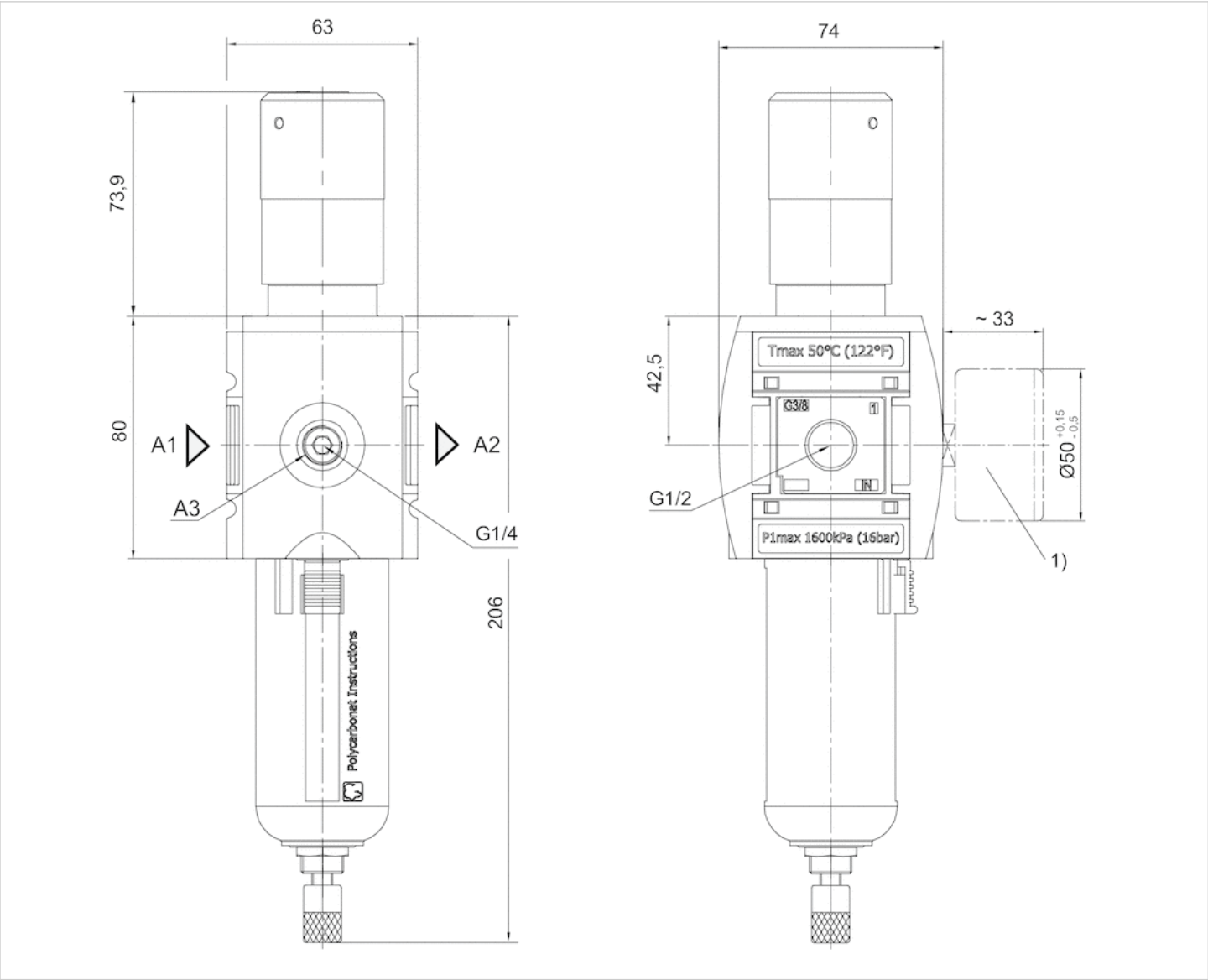
Technical information

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

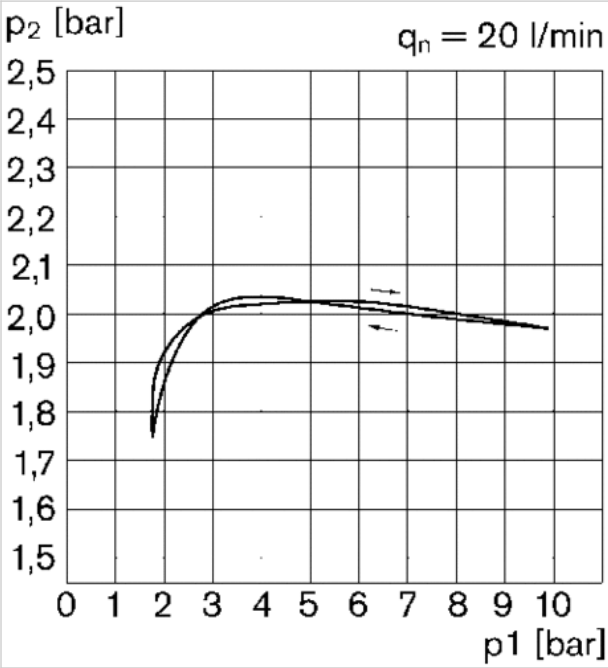
Dimensions



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

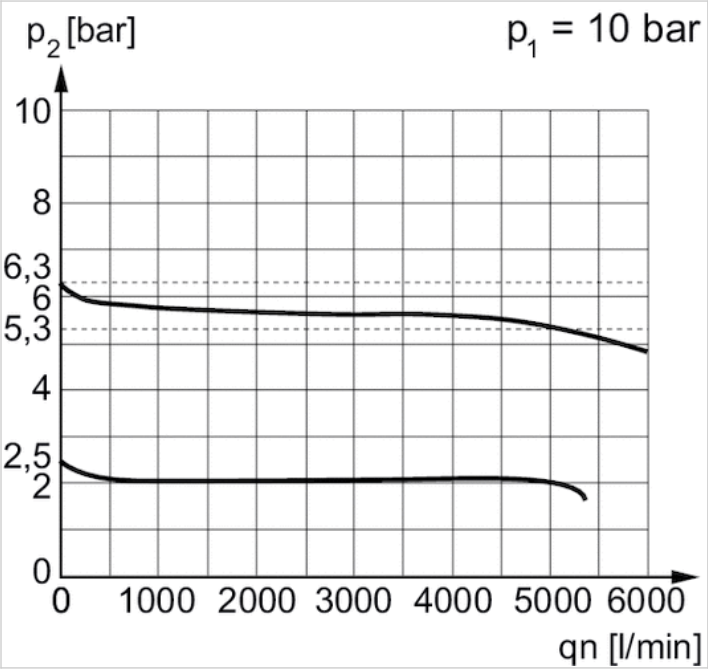
Diagrams

Pressure characteristics curve



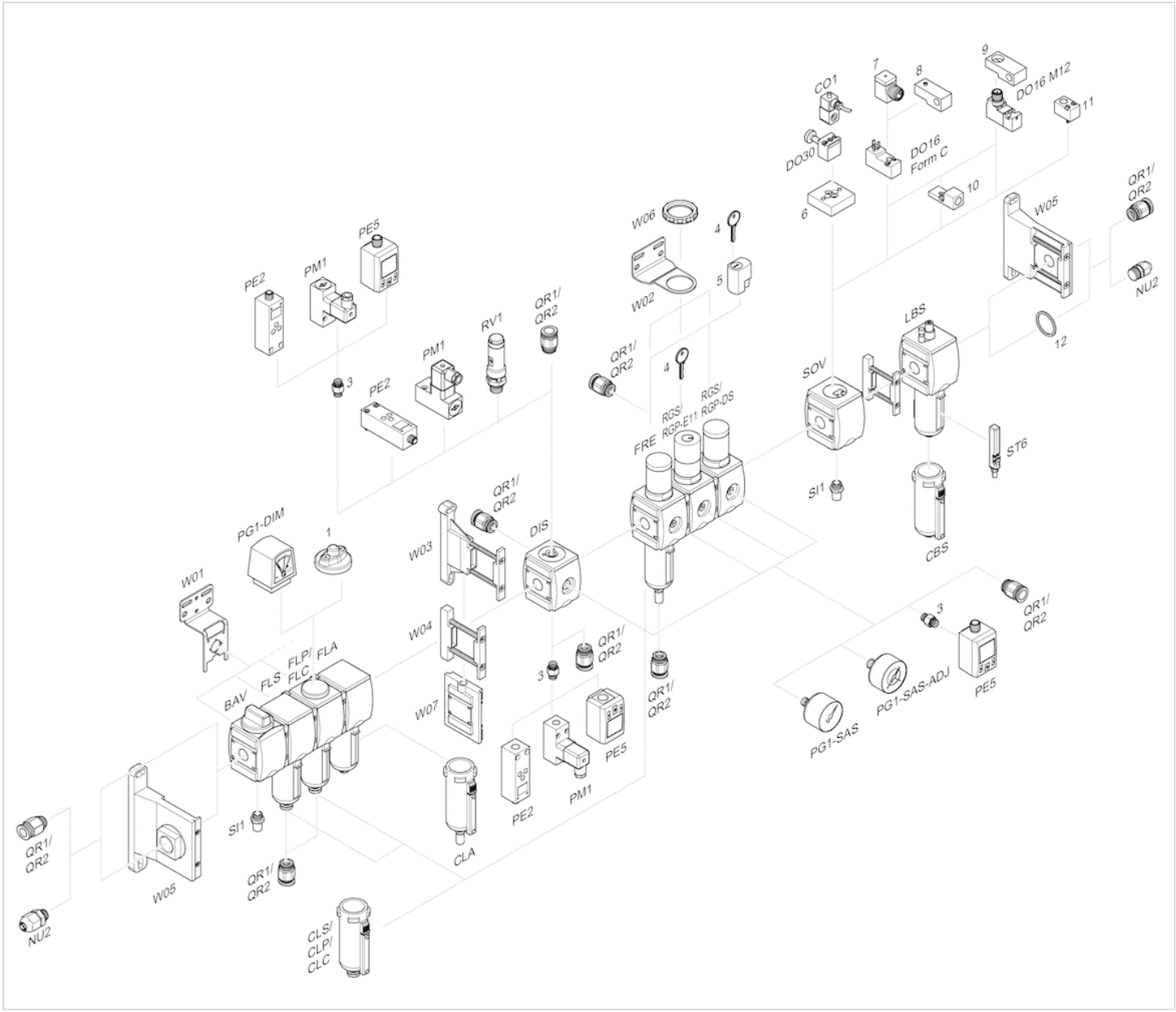
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



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

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 cm³
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 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.

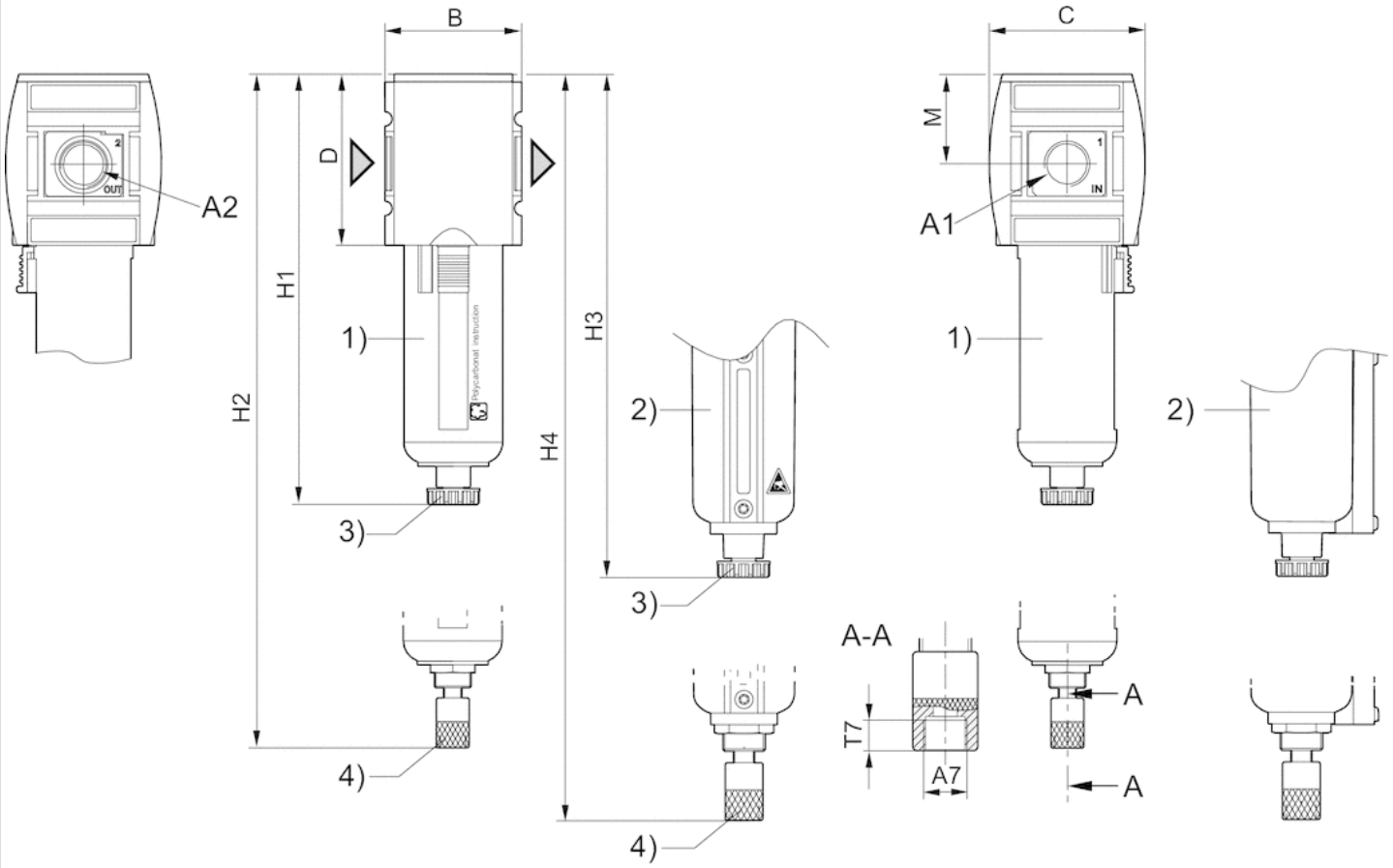
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

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



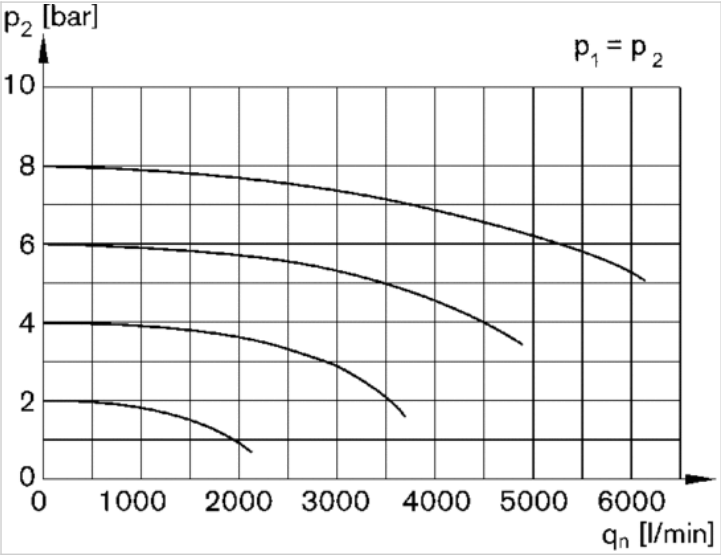
A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

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

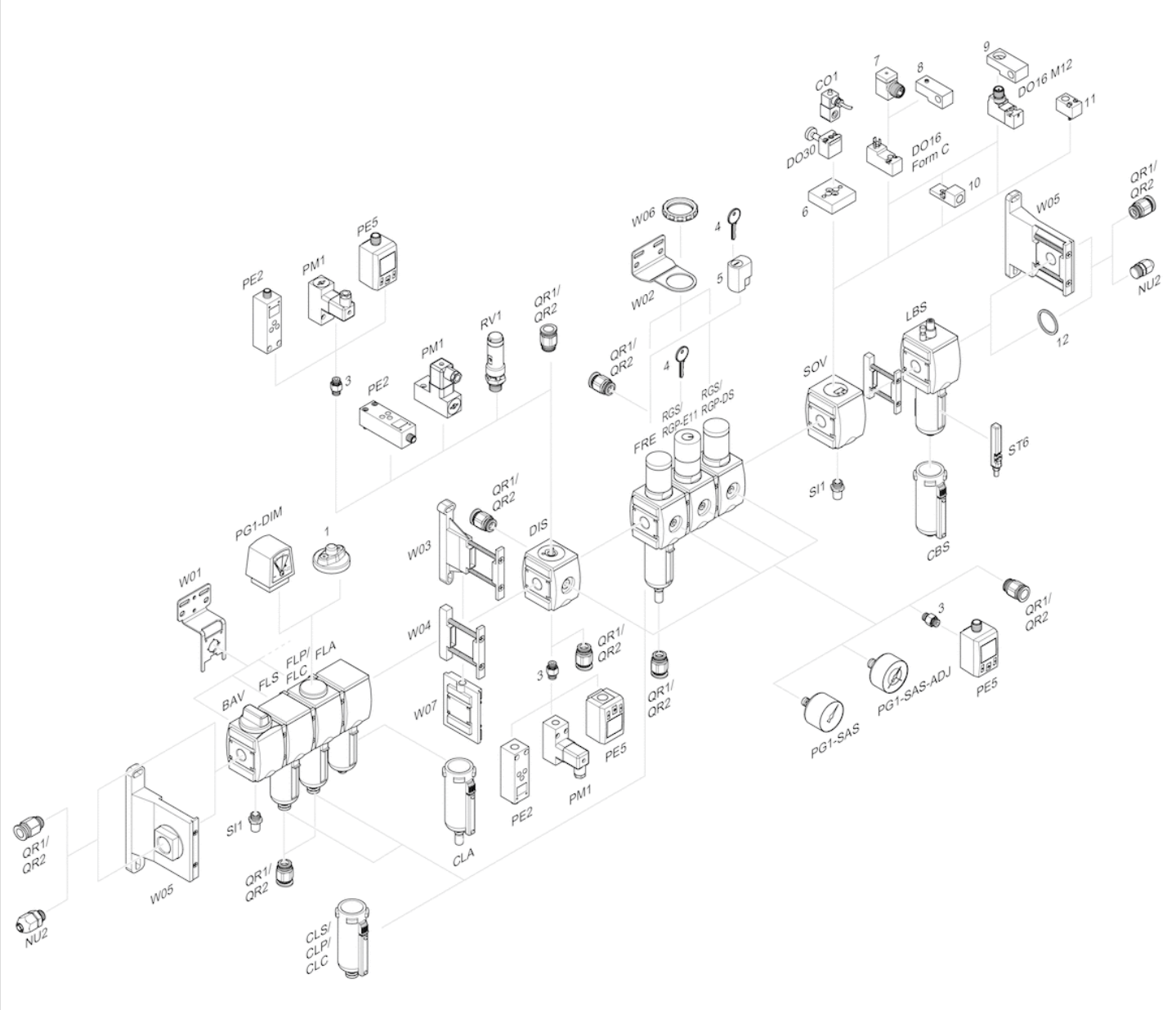
Diagrams

Flow rate characteristic



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

Accessories overview

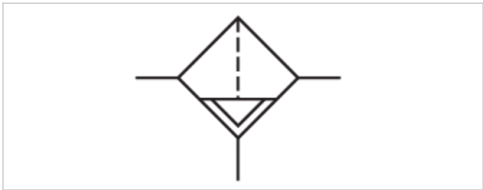


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Filter, 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 cm³
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 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 : -

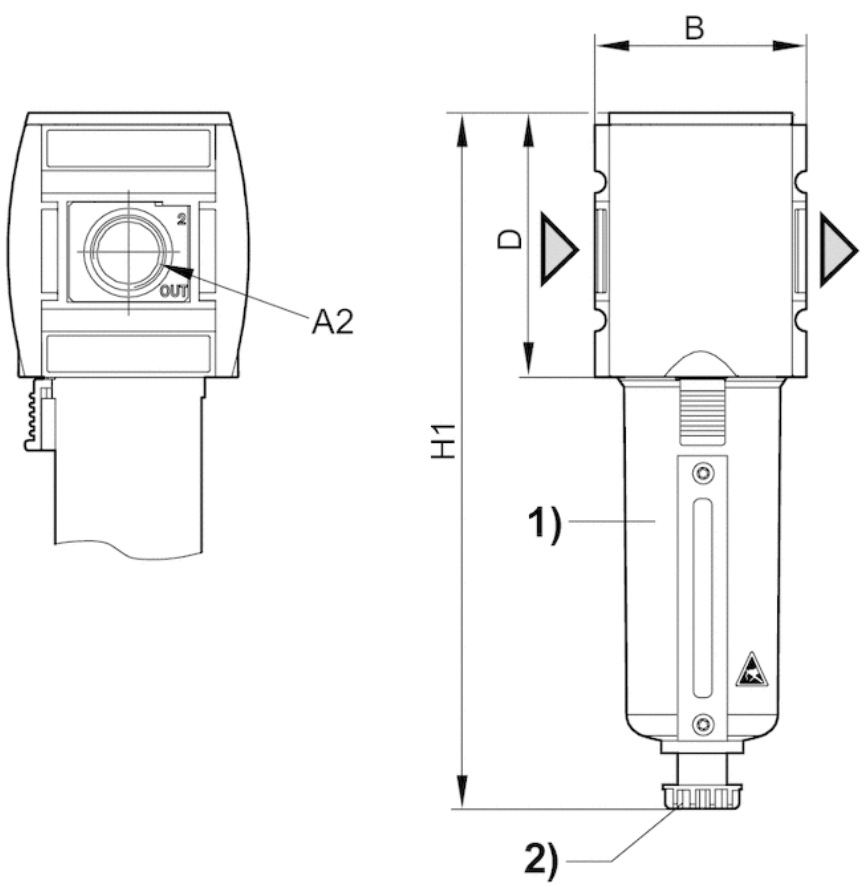
Technical information

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

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

Dimensions

Dimensions



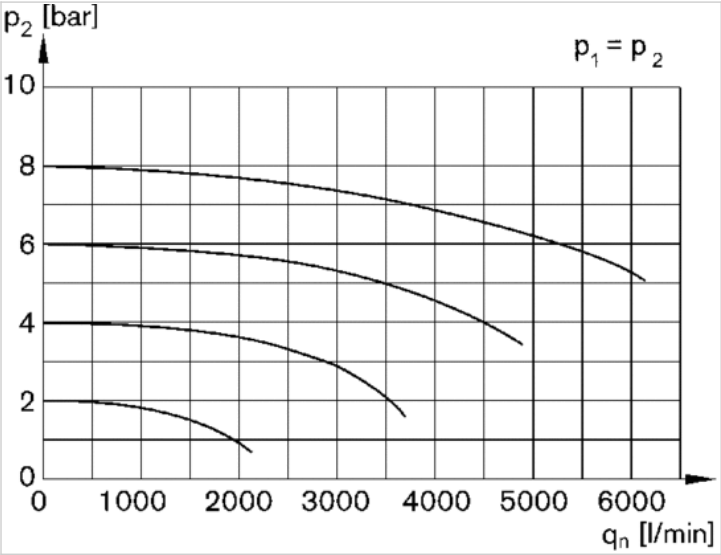
A1 = input
A2 = output
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain

Dimensions in mm

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

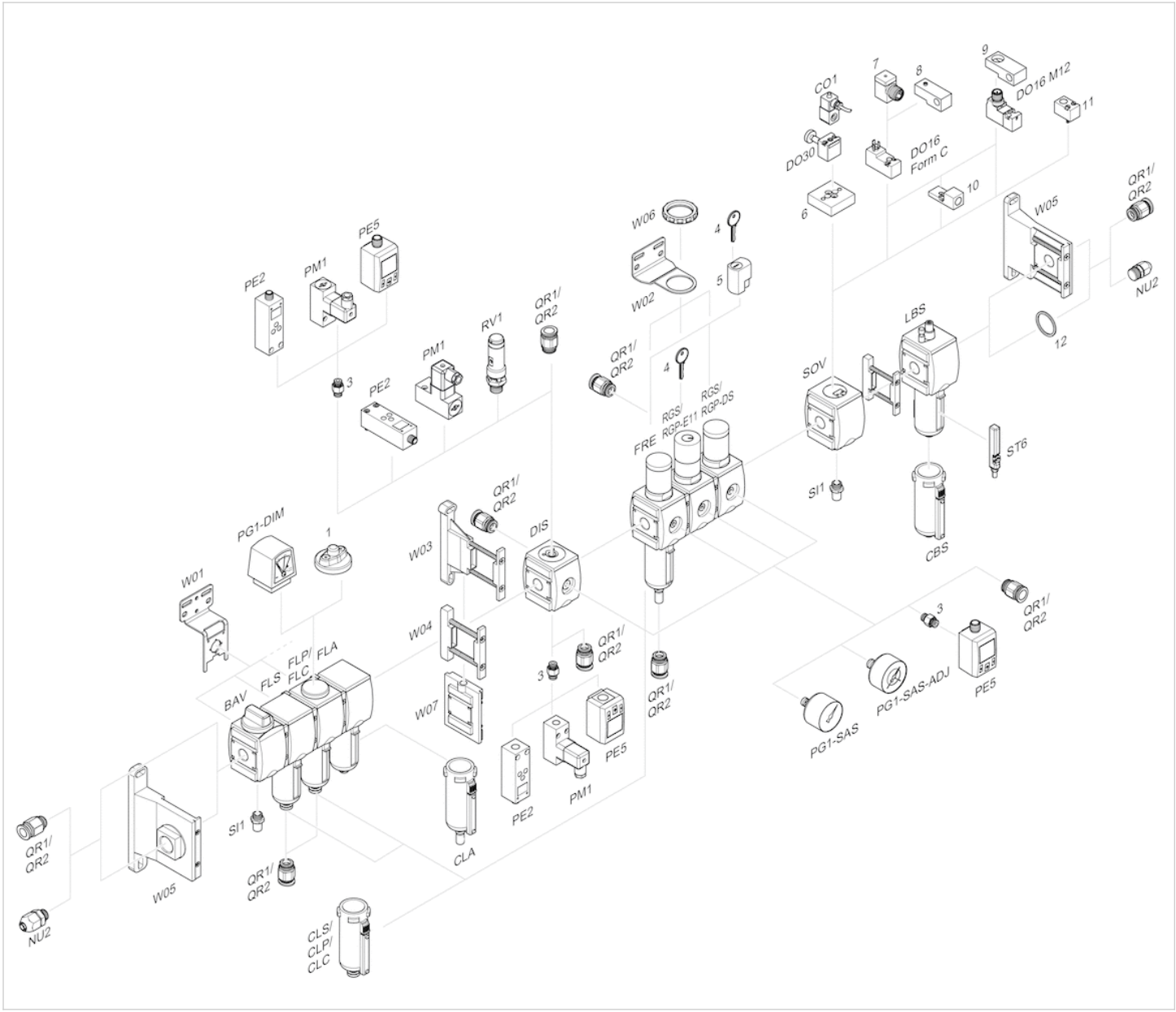
Diagrams

Flow rate characteristic



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

Accessories overview

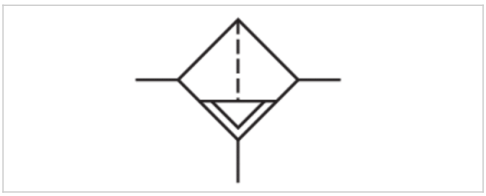


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Filter, Series AS3-FLS

- G 3/8 G 1/2
- filter porosity 40 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 cm³
Filter element	exchangeable
filter porosity	40 µm
Condensate drain	See table below
Weight	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.

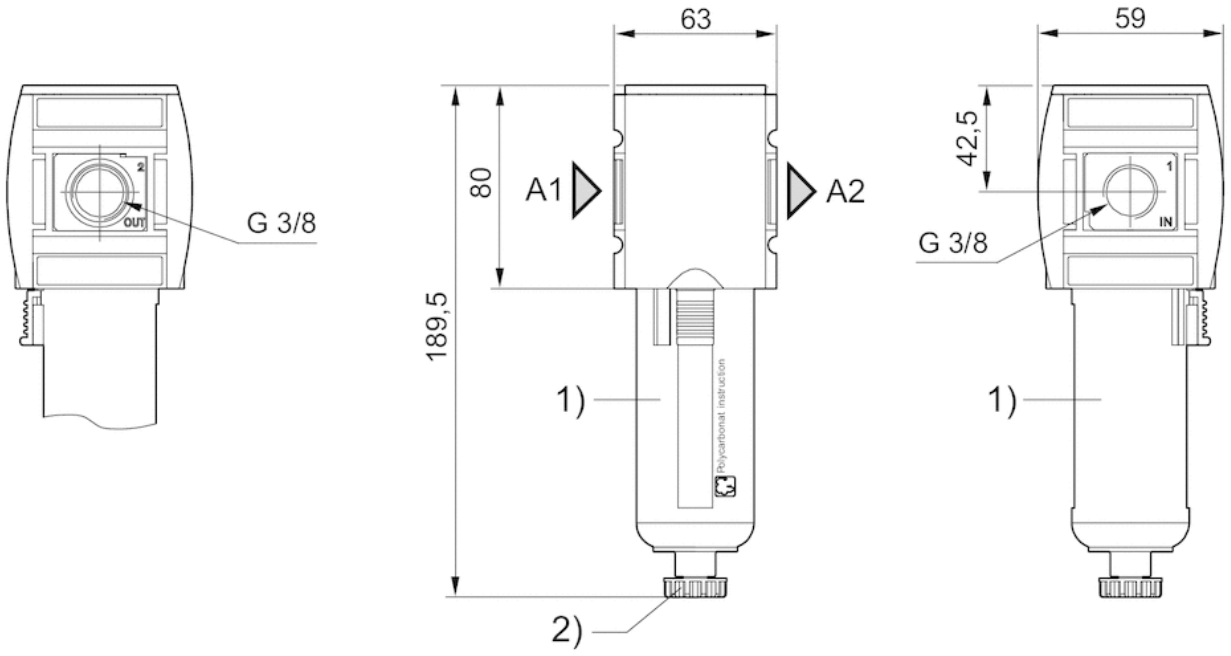
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

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

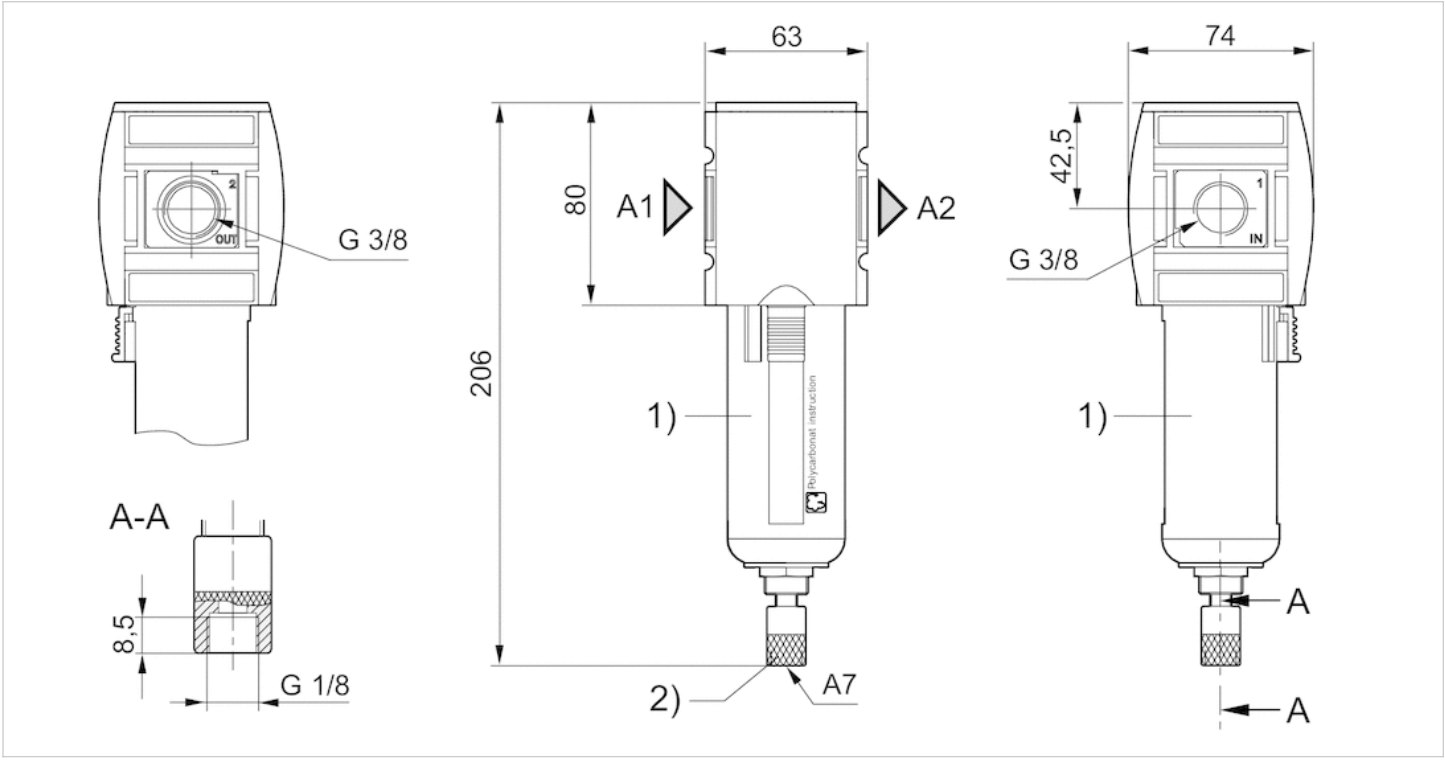
Dimensions

Dimensions in mm, Fig. 1



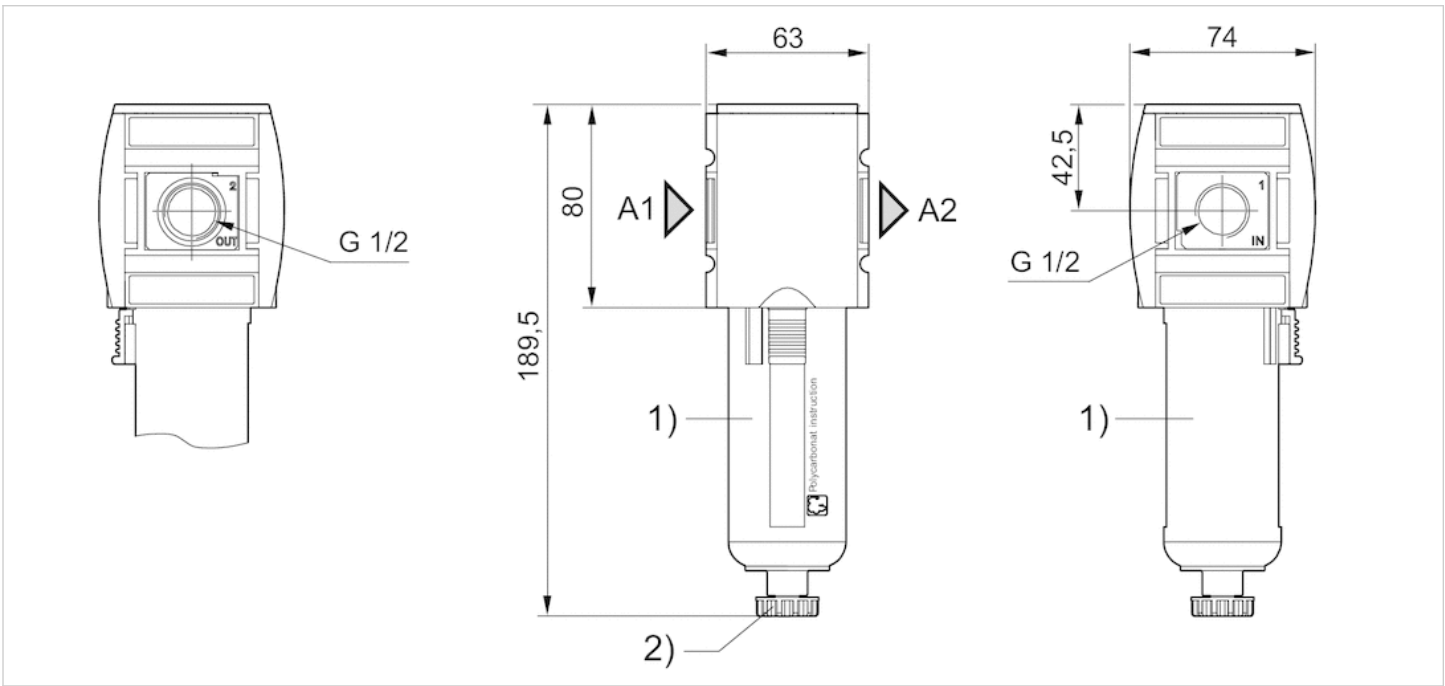
A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Semi-automatic condensate drain

Dimensions in mm, Fig. 2



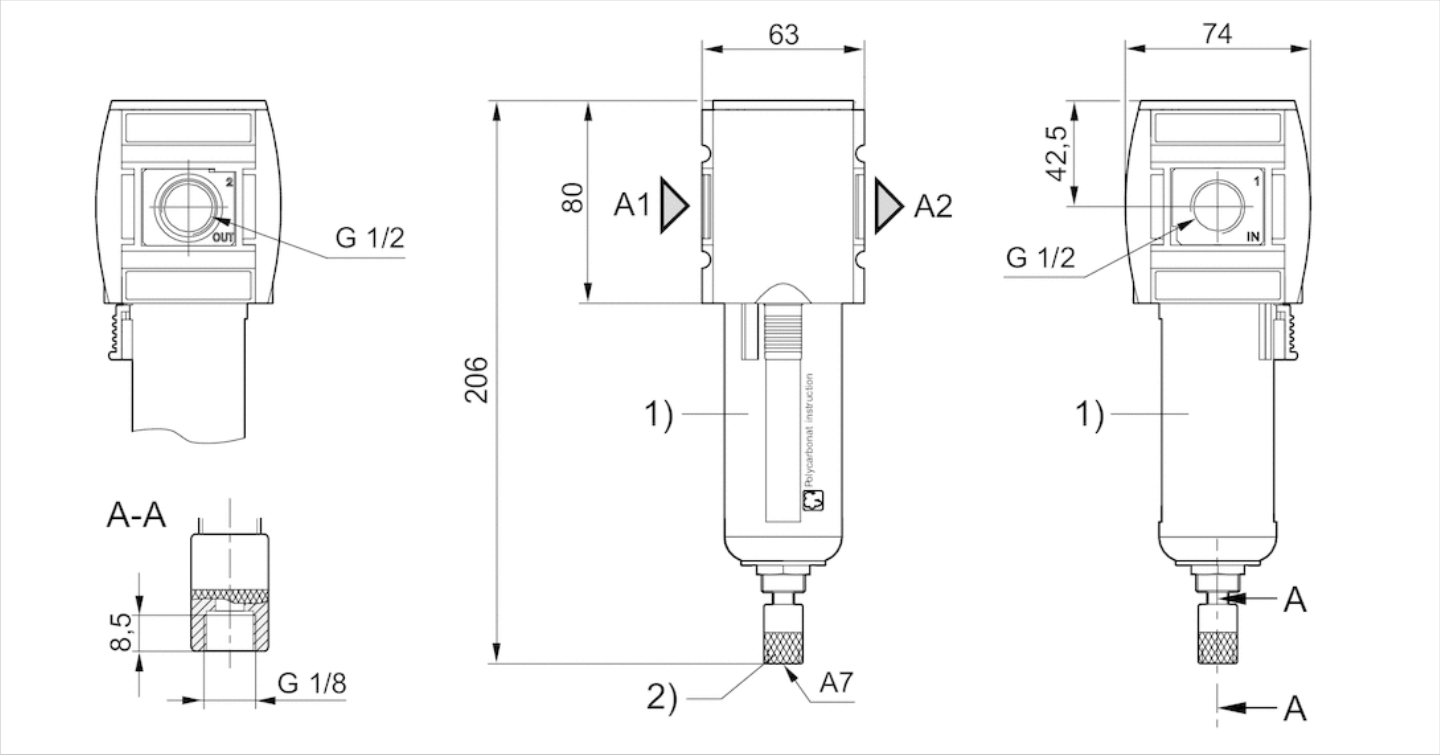
A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Fully automatic condensate drain

Dimensions in mm, Fig. 3



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

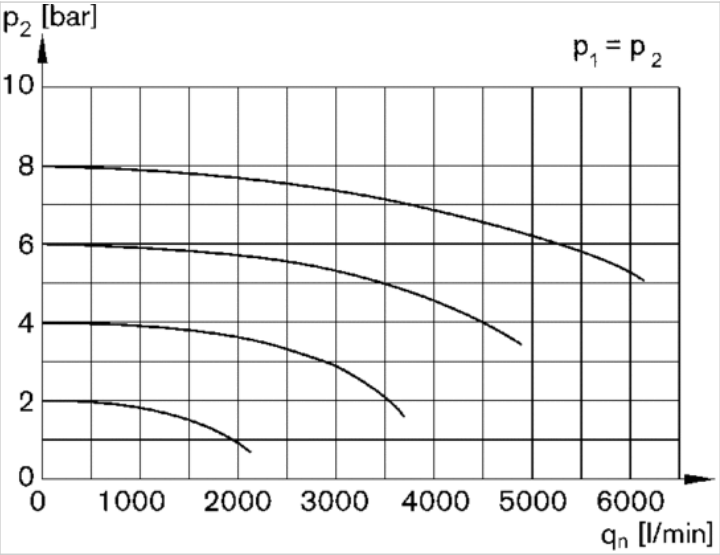
Dimensions in mm, Fig. 4



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

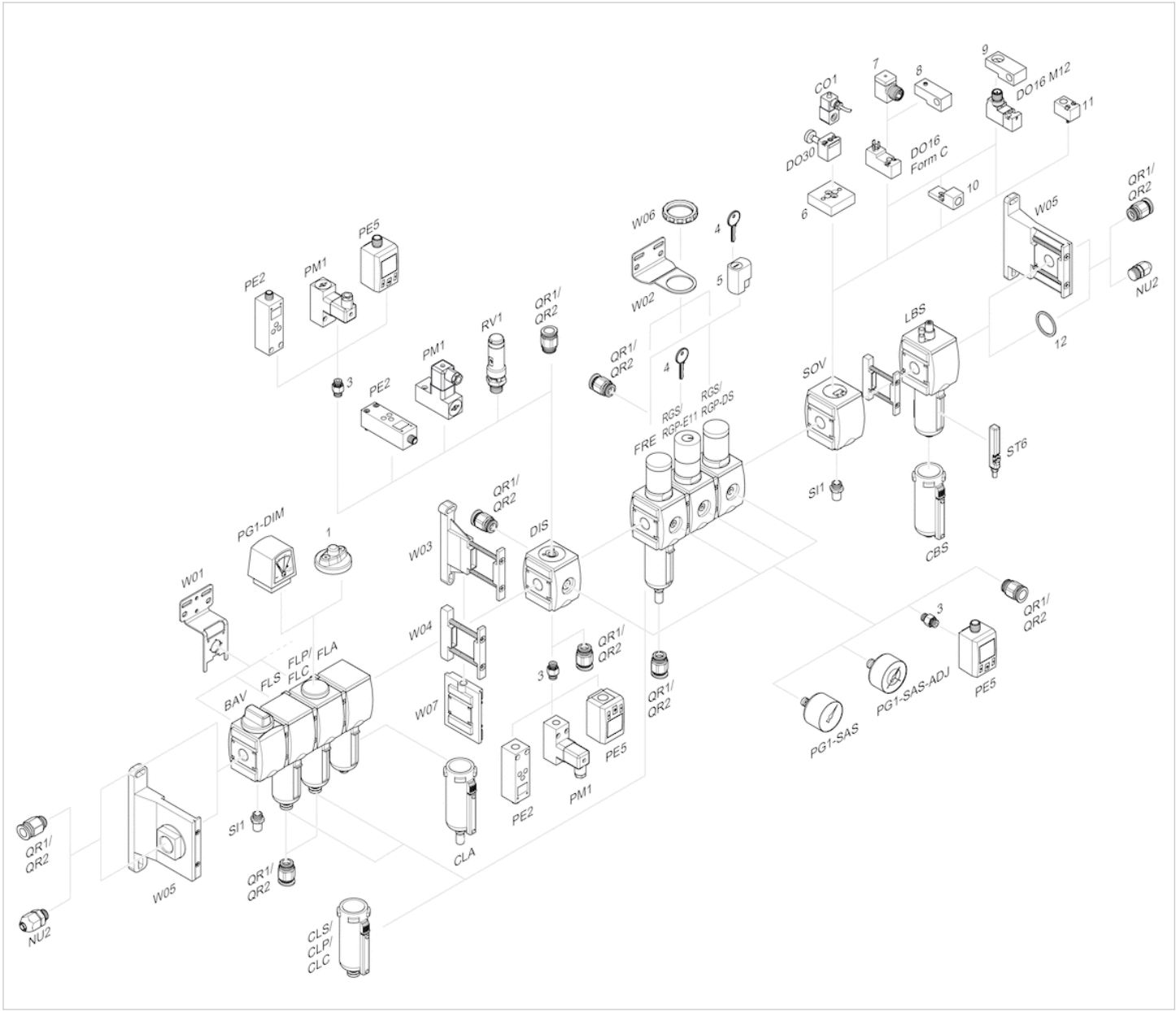
Diagrams

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 cm³
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 Qn with secondary pressure p2 = 6 bar at Δp = 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

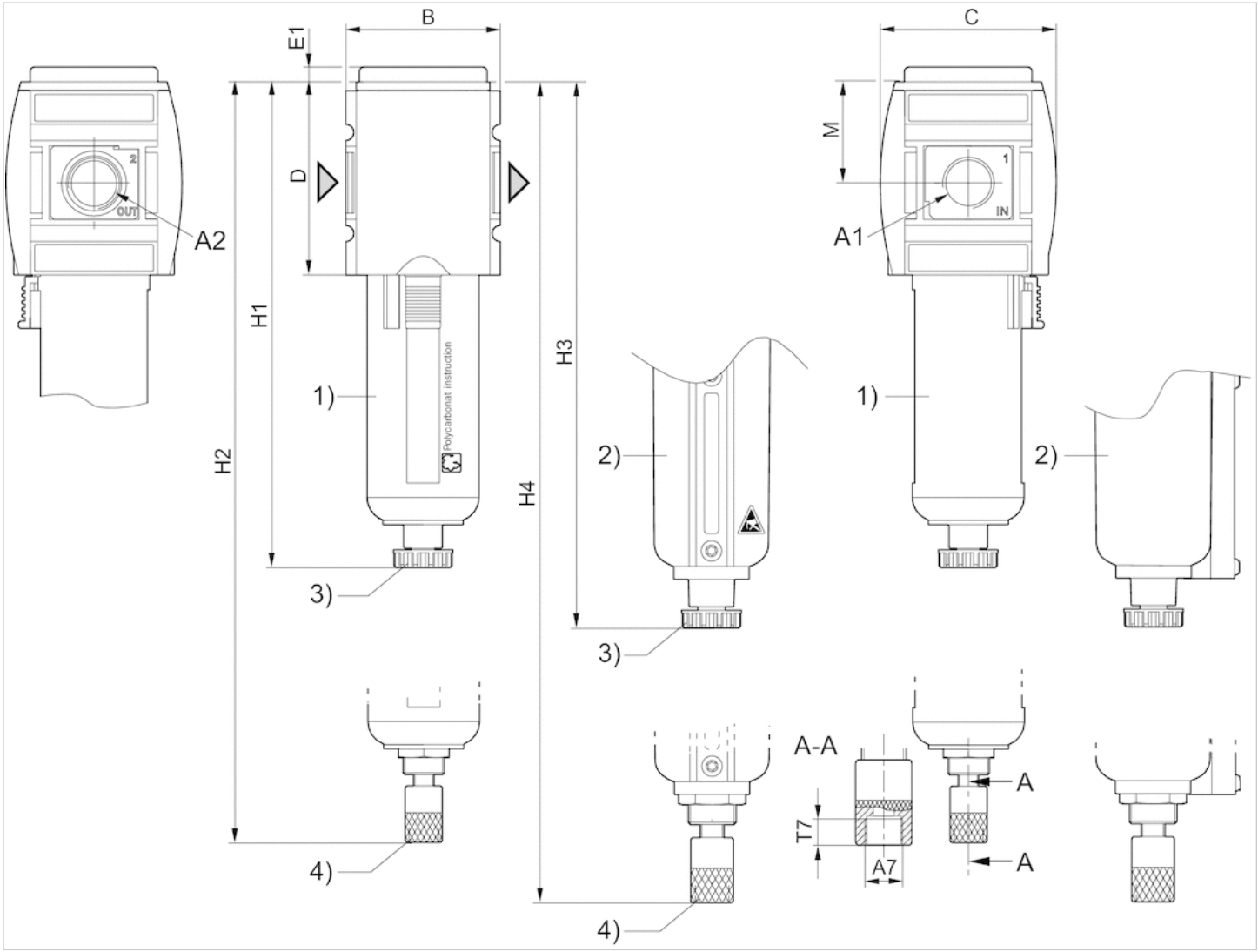
Max. achievable compressed air class acc. to ISO 8573-1:2010 2 : - : 3

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



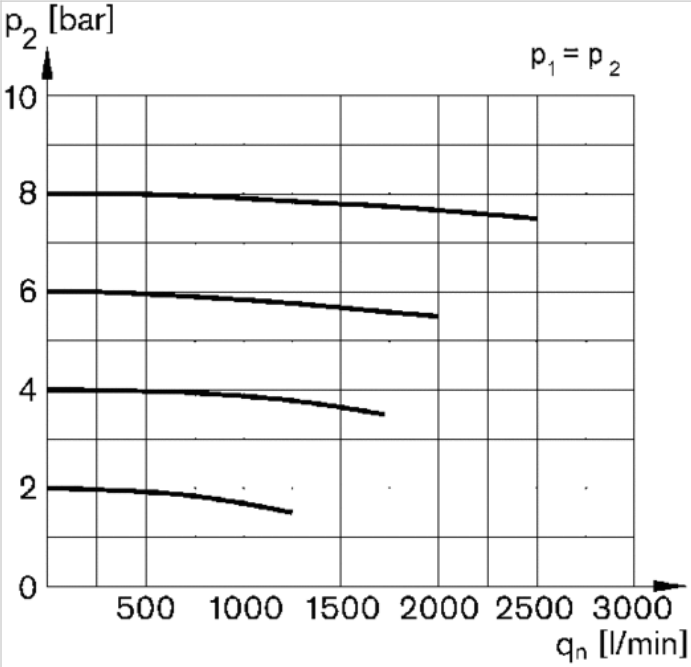
A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

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

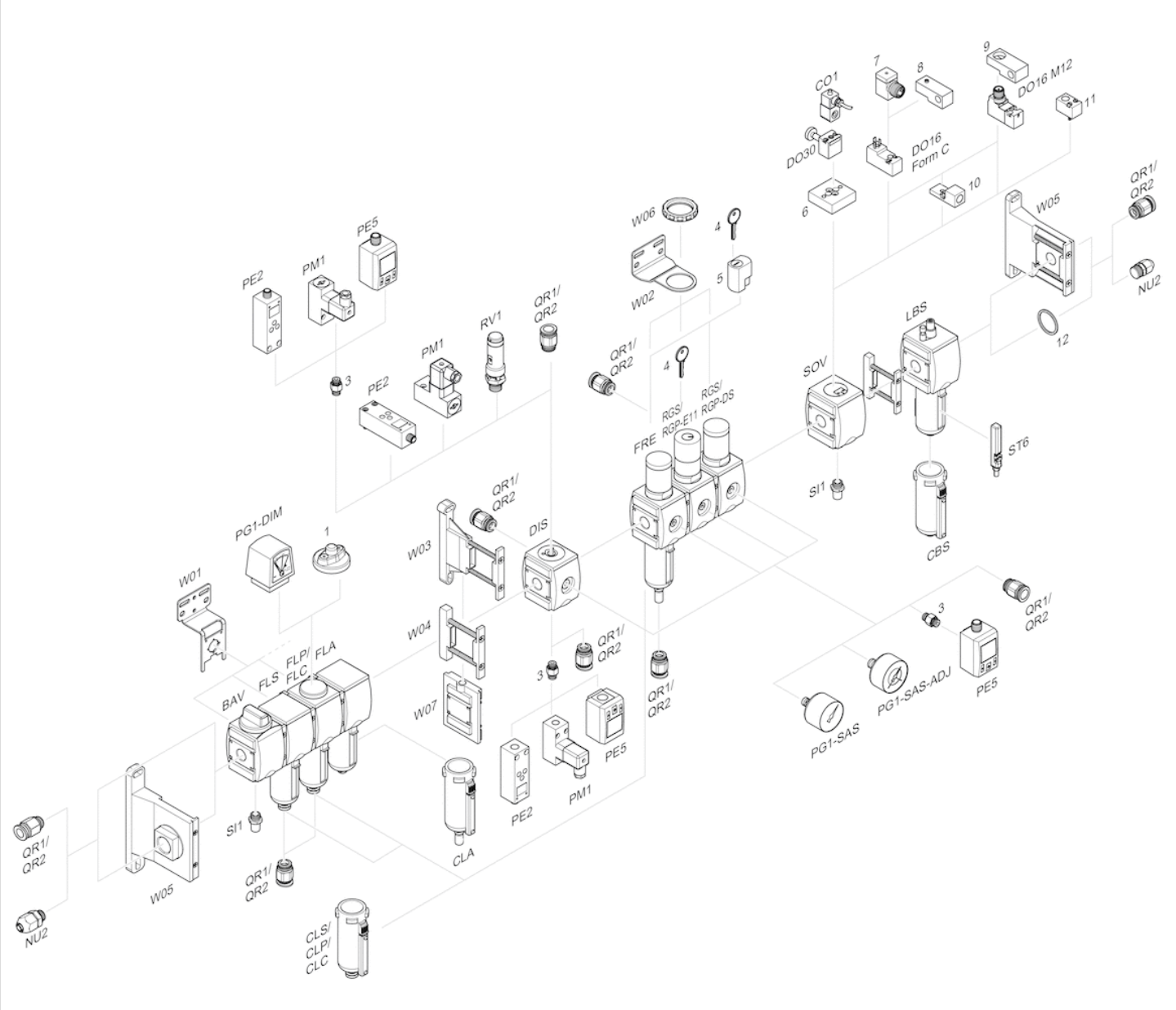
Diagrams

Flow rate characteristic



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

Accessories overview

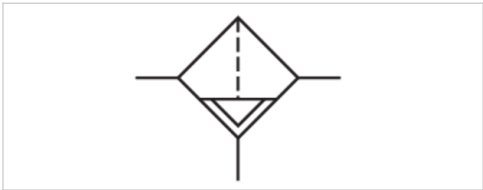


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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 cm³
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 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 0.3 µm

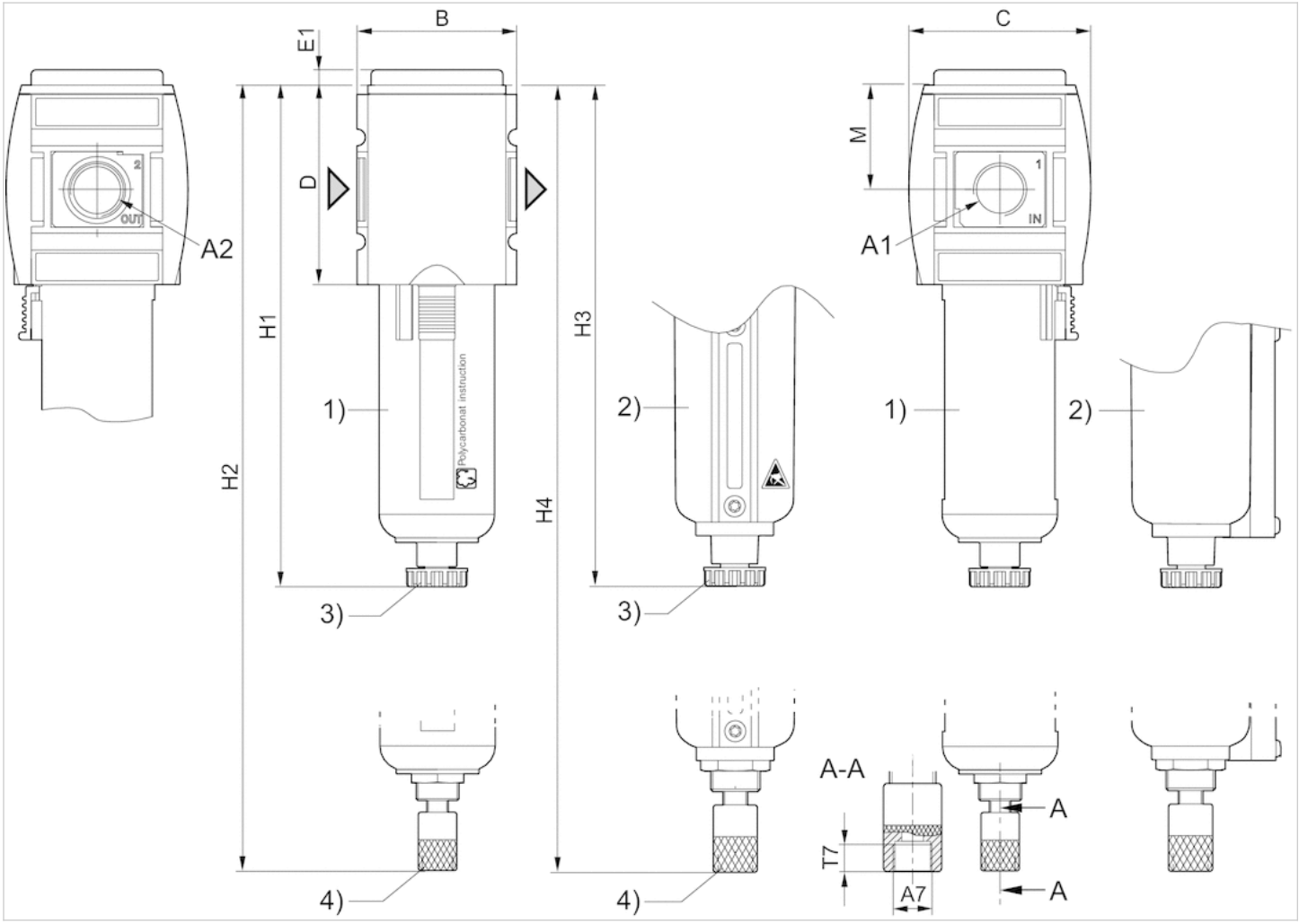
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

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



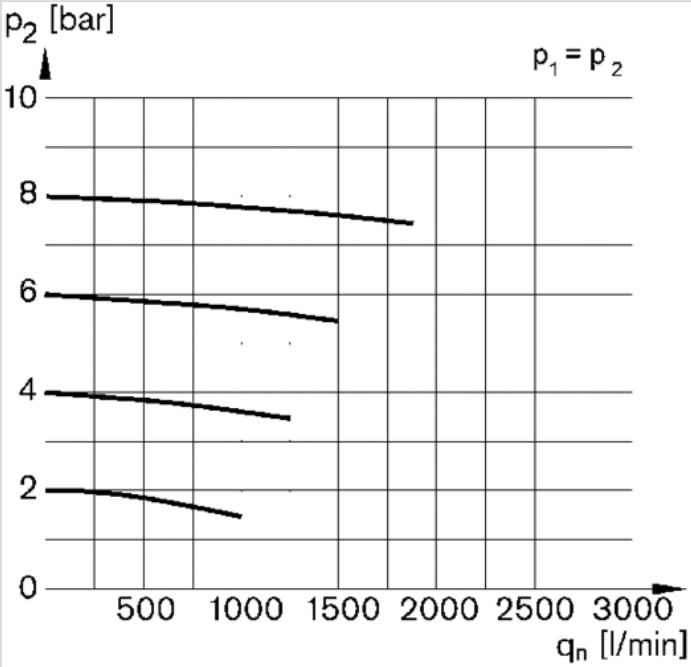
A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

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

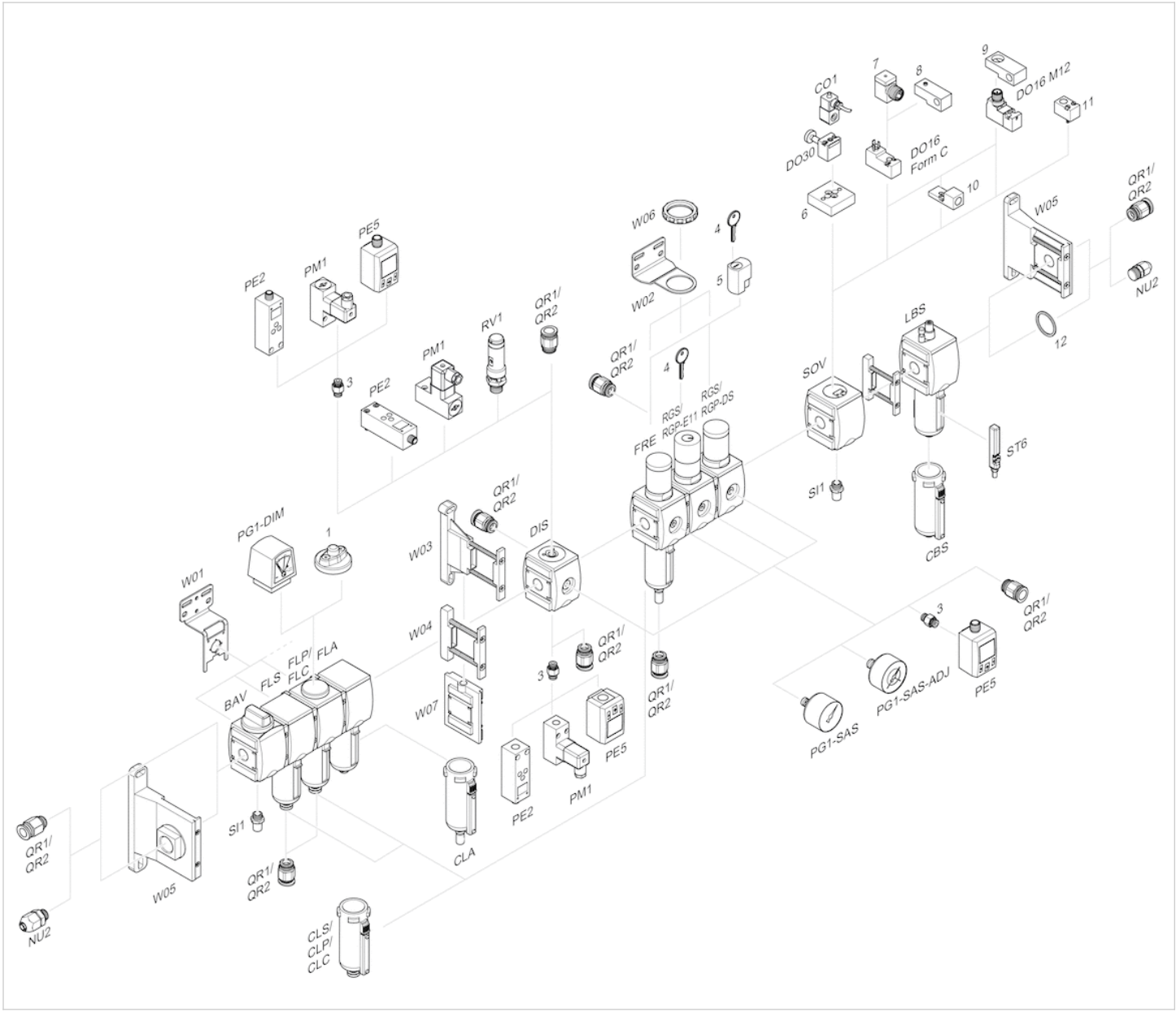
Diagrams

Flow rate characteristic



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

Accessories overview

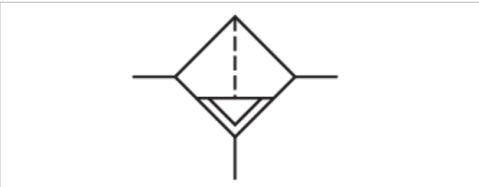


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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 cm³
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 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 0.3 µm

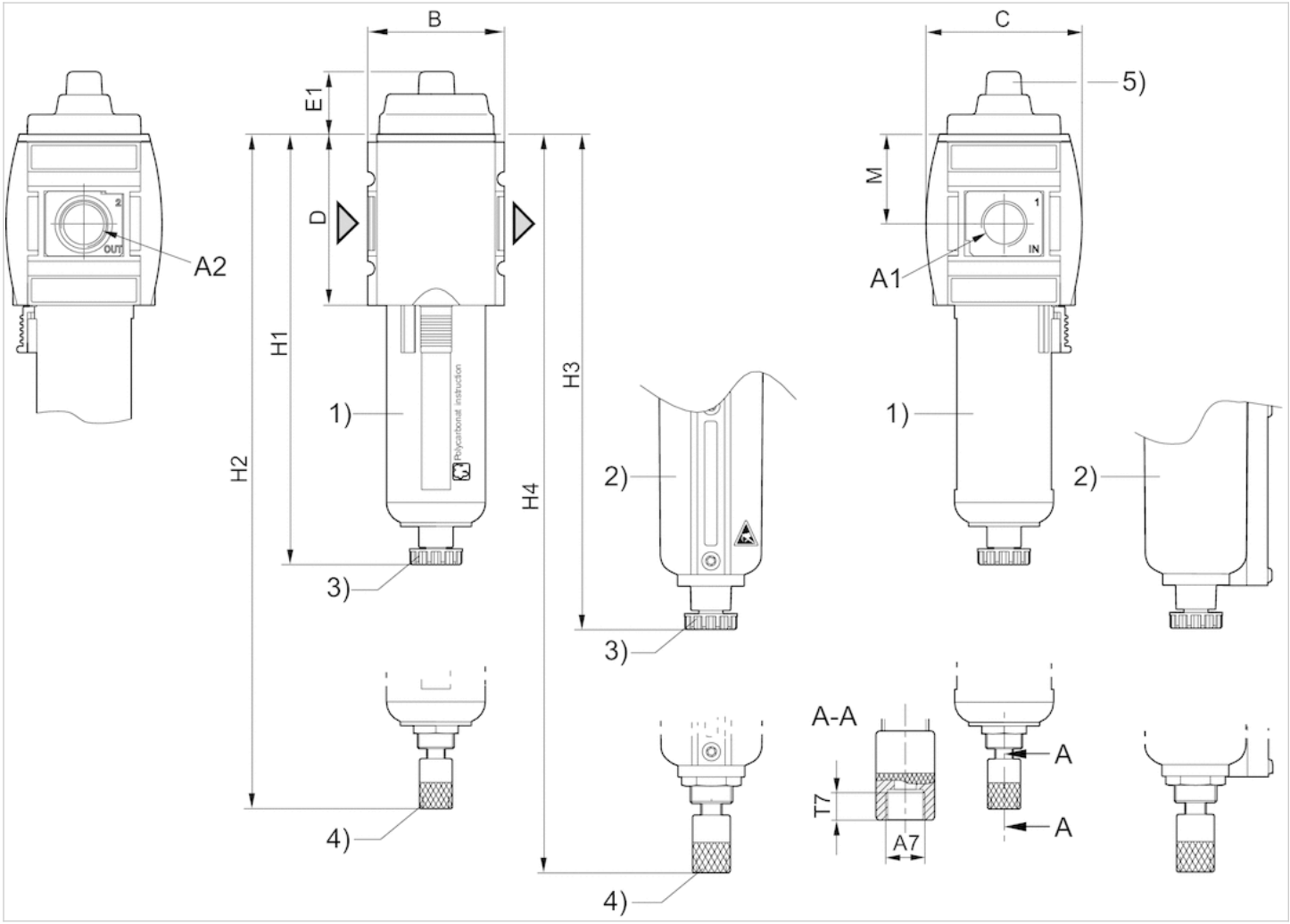
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

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



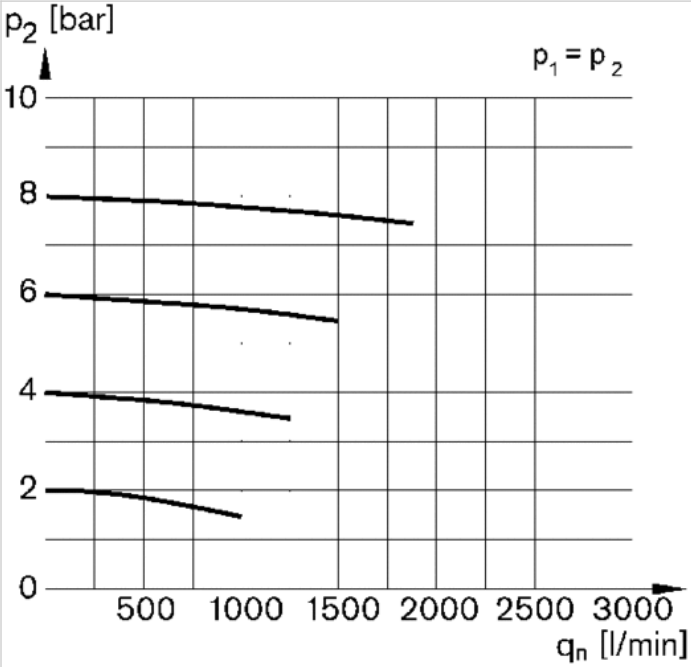
A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) contamination display

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

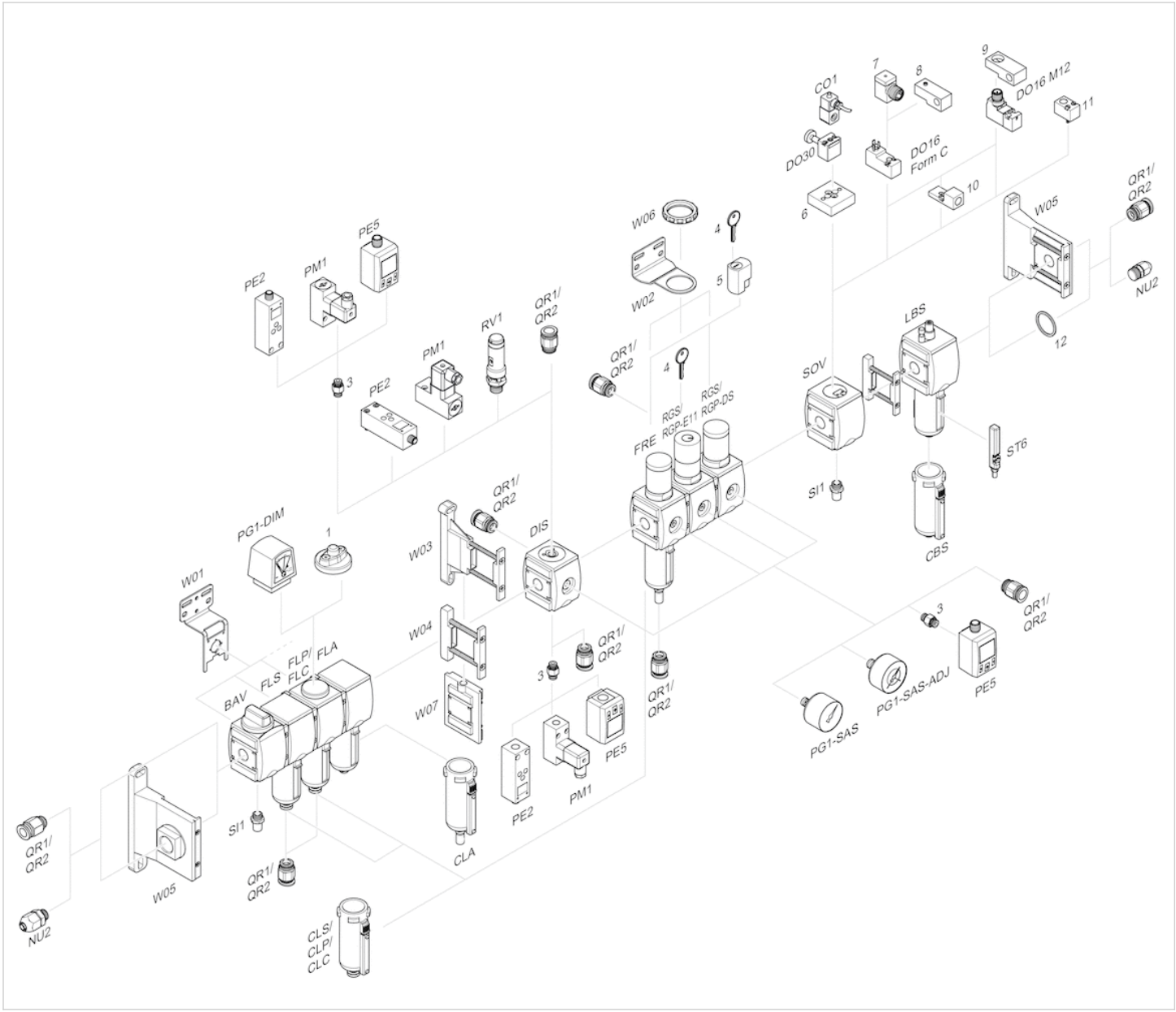
Diagrams

Flow rate characteristic



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

Accessories overview

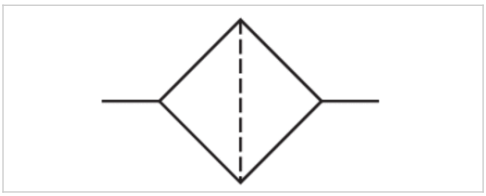


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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 cm³
Filter element	exchangeable
Condensate drain	without
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Version	Weight
R412007072	G 3/8	1000 l/min	reservoir, polycarbonate, with PA protective guard	0.375 kg
R412007074	G 3/8	1000 l/min	-	0.751 kg
R412007075	G 1/2	1000 l/min	reservoir, polycarbonate, with PA protective guard	0.375 kg
R412007077	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

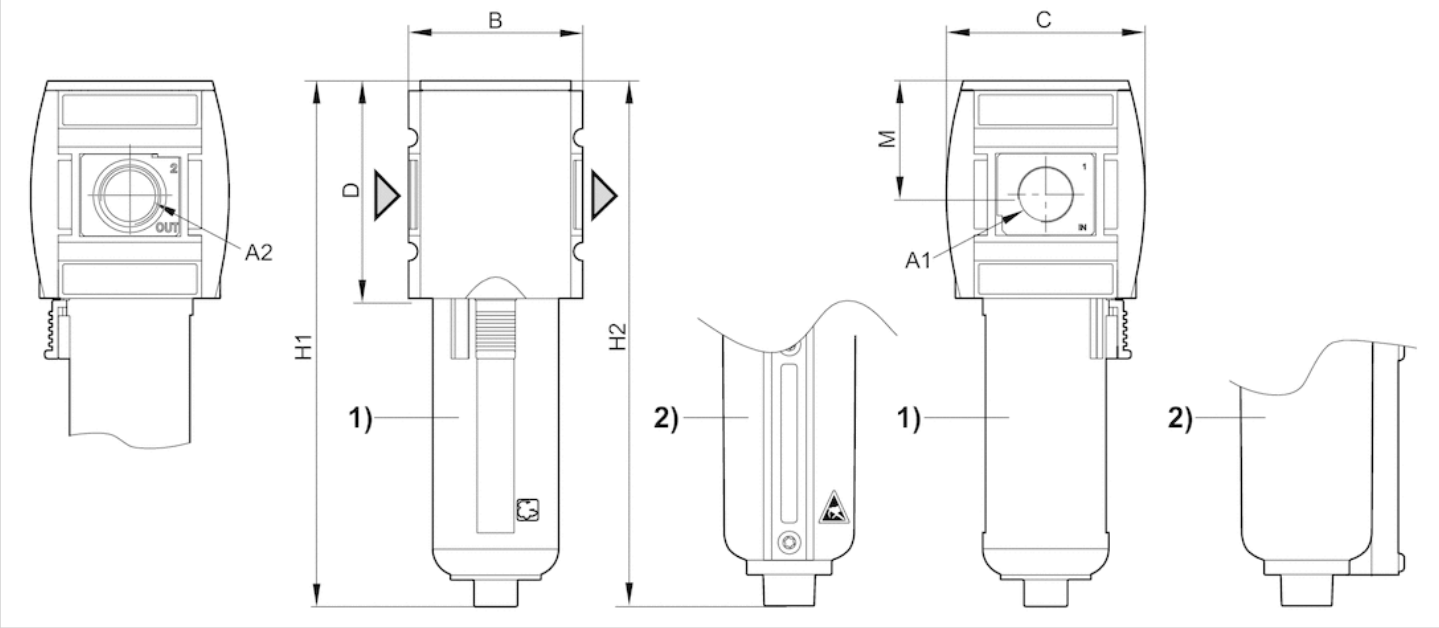
Max. achievable compressed air class acc. to ISO 8573-1:2010 - : - : 1

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

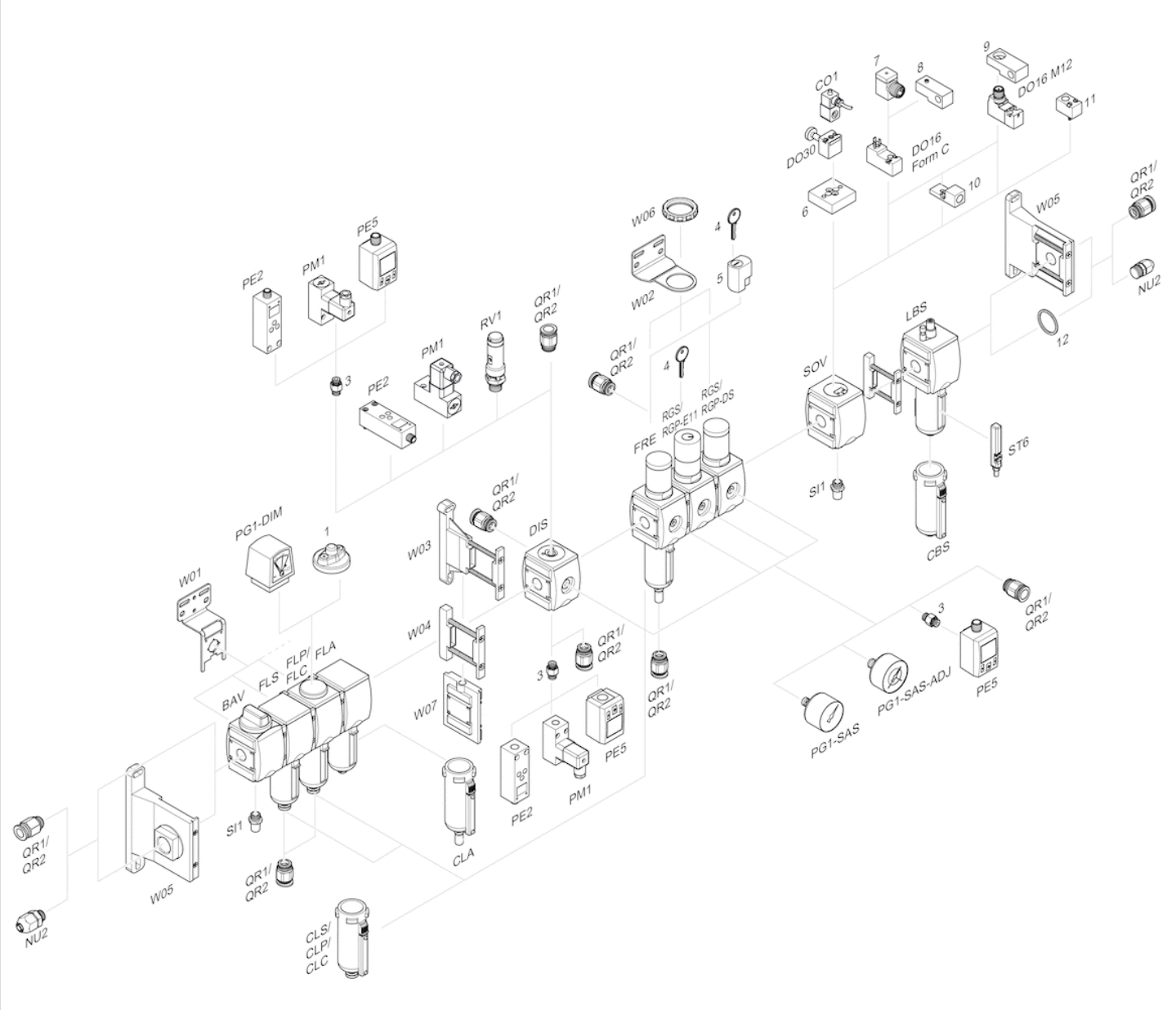


A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass

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

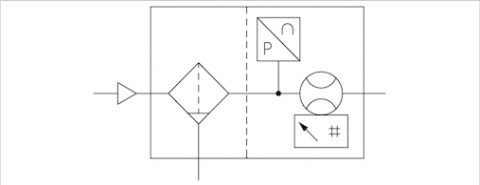


1 = contamination display
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5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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	CE declaration of conformity RoHS UL (Underwriters Laboratories)
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 min.	17 V DC
DC operating voltage max.	30 V DC
Max. power consumption *)	175 mA
Response time	10 ms
Protection class	IP65, IP67 according to IEC 60529
Short circuit resistance	short circuit resistant
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	1.97 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

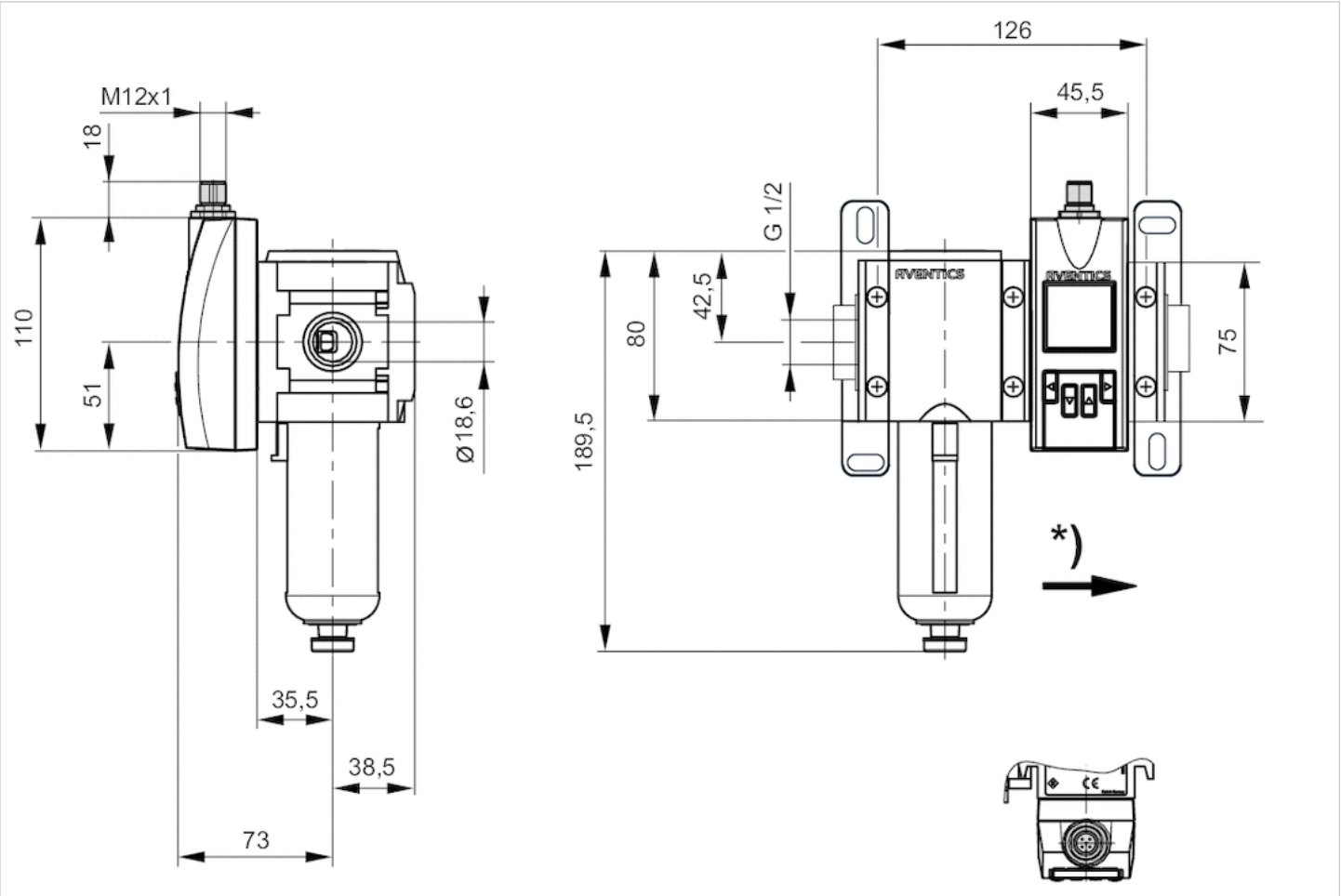
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
The device is designed to be installed in AS series air preparation 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

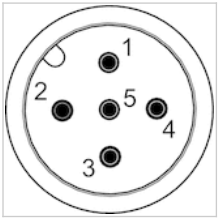
Dimensions in mm



* Flow direction

Pin assignments

Pin assignments, M12x1, 5-pin



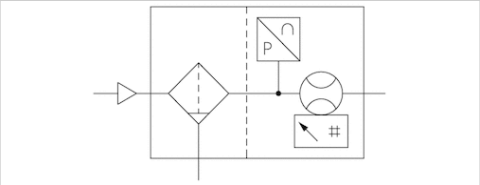
Pin	1	2	3
Allocation	L+	QA (output 4 ... 20 mA)	m = mass

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	CE declaration of conformity RoHS UL (Underwriters Laboratories)
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	1.97 kg

Technical data

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

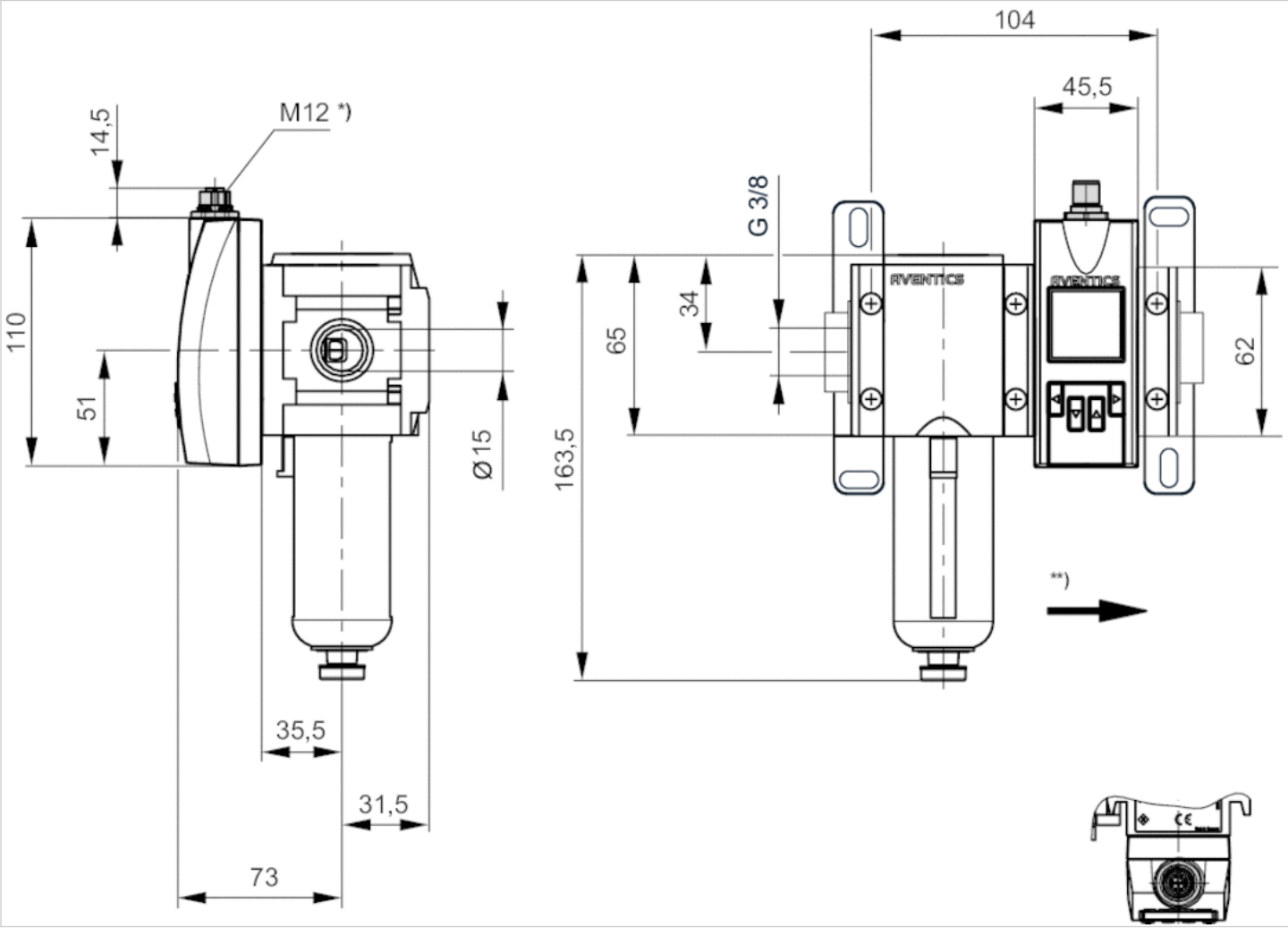
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
The device is designed to be installed in AS series air preparation 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

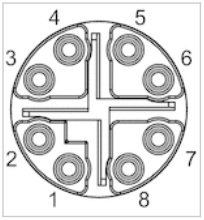
Dimensions in mm



* Internal thread
** Flow direction

Pin assignments

Pin assignments, M12, X-coded



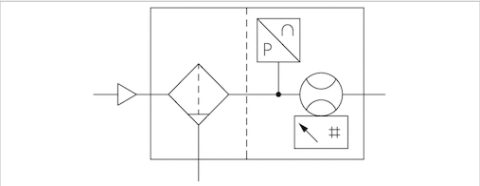
Pin	1	2	3	4	7	8	5
Color	WH / OG	OG	WH / GN	GN	WH / BU	BU	WH / BN
Function	TX(+) + POE	TX(-) + POE	RX(+) - POE	RX(-) - POE	POE+	POE+	POE-

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	CE declaration of conformity RoHS UL (Underwriters Laboratories)
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 min.	17 V DC
DC operating voltage max.	30 V DC
Max. power consumption *)	175 mA
Response time	10 ms
Protection class	IP65, IP67 according to IEC 60529
Short circuit resistance	short circuit resistant
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
*)	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

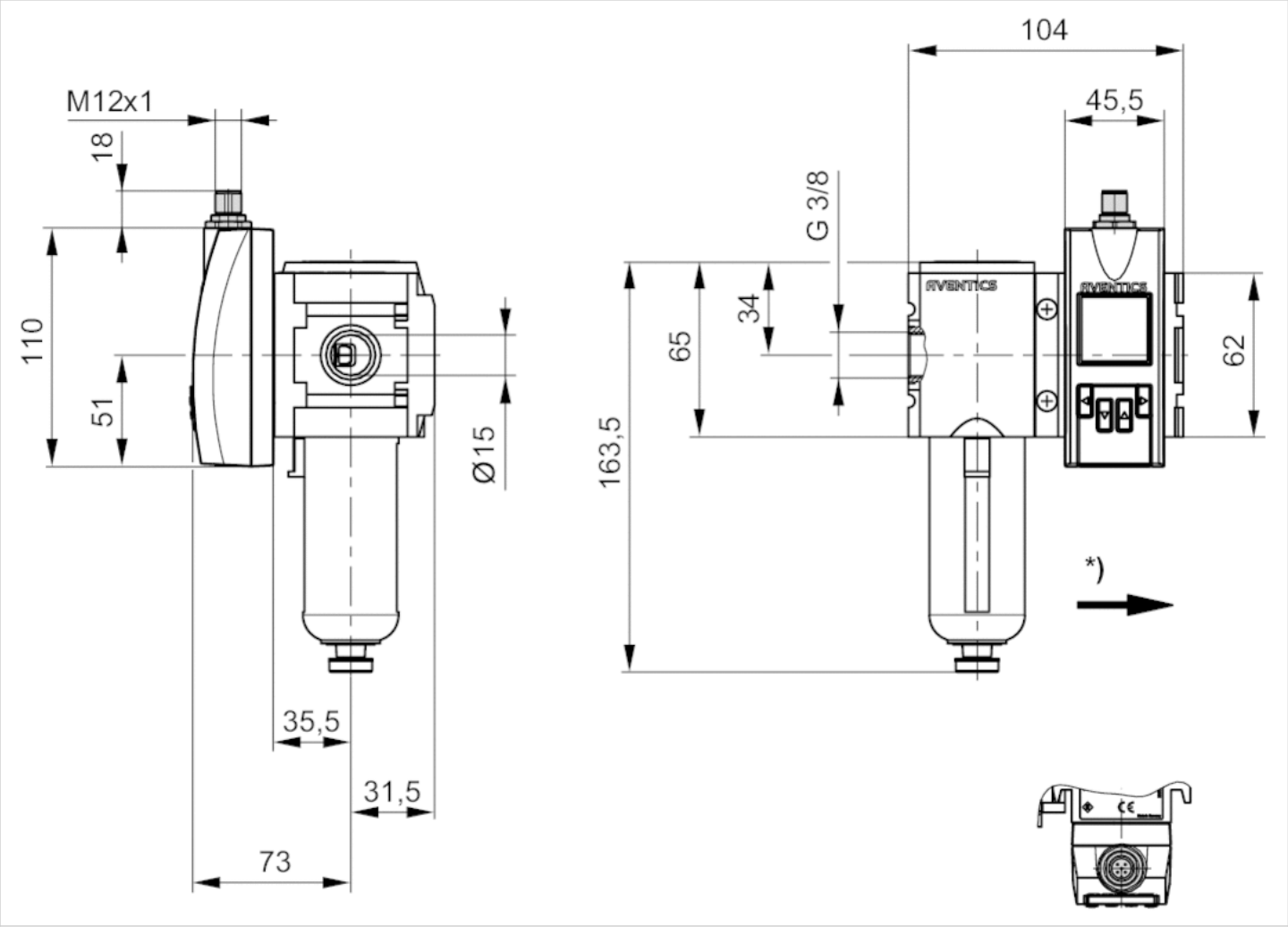
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
The device is designed to be installed in AS series air preparation 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

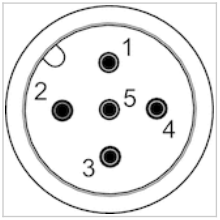
Dimensions in mm



* Flow direction

Pin assignments

Pin assignments, M12x1, 5-pin



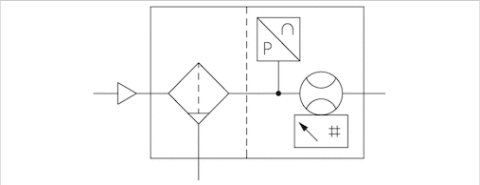
Pin	1	2	3
Allocation	L+	QA (output 4 ... 20 mA)	m = mass

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	CE declaration of conformity RoHS UL (Underwriters Laboratories)
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	Nominal flow Qn	Nominal flow Qn
			Min., standard	Max., standard	Min., extended
R412027180	AS3	G 1/2	8 l/min	1630 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

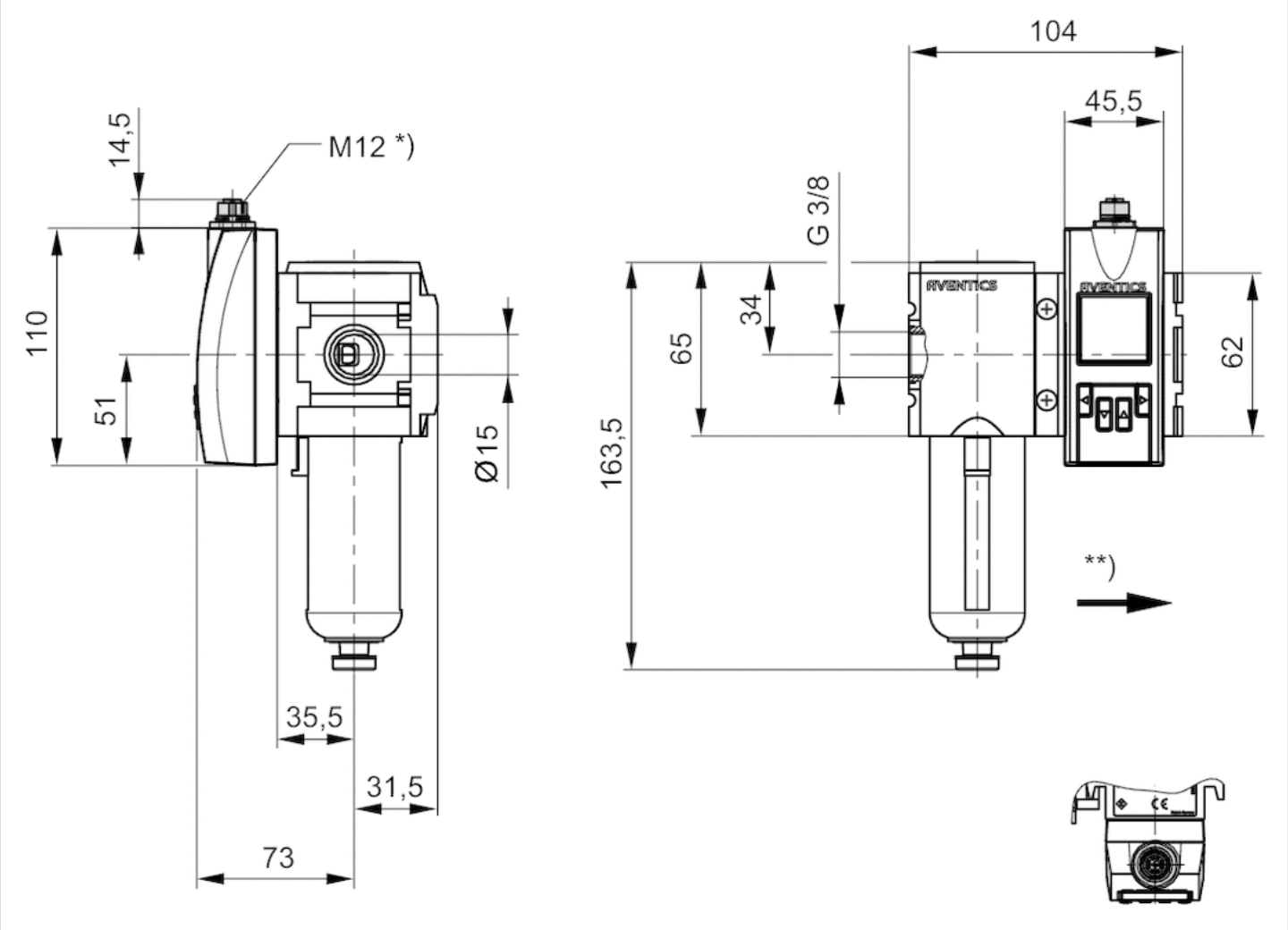
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.
The device is designed to be installed in AS series air preparation 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

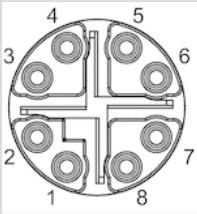
Dimensions in mm



* 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-

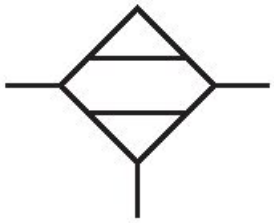
Diaphragm-type dryer, Series AS3-ADD

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 .

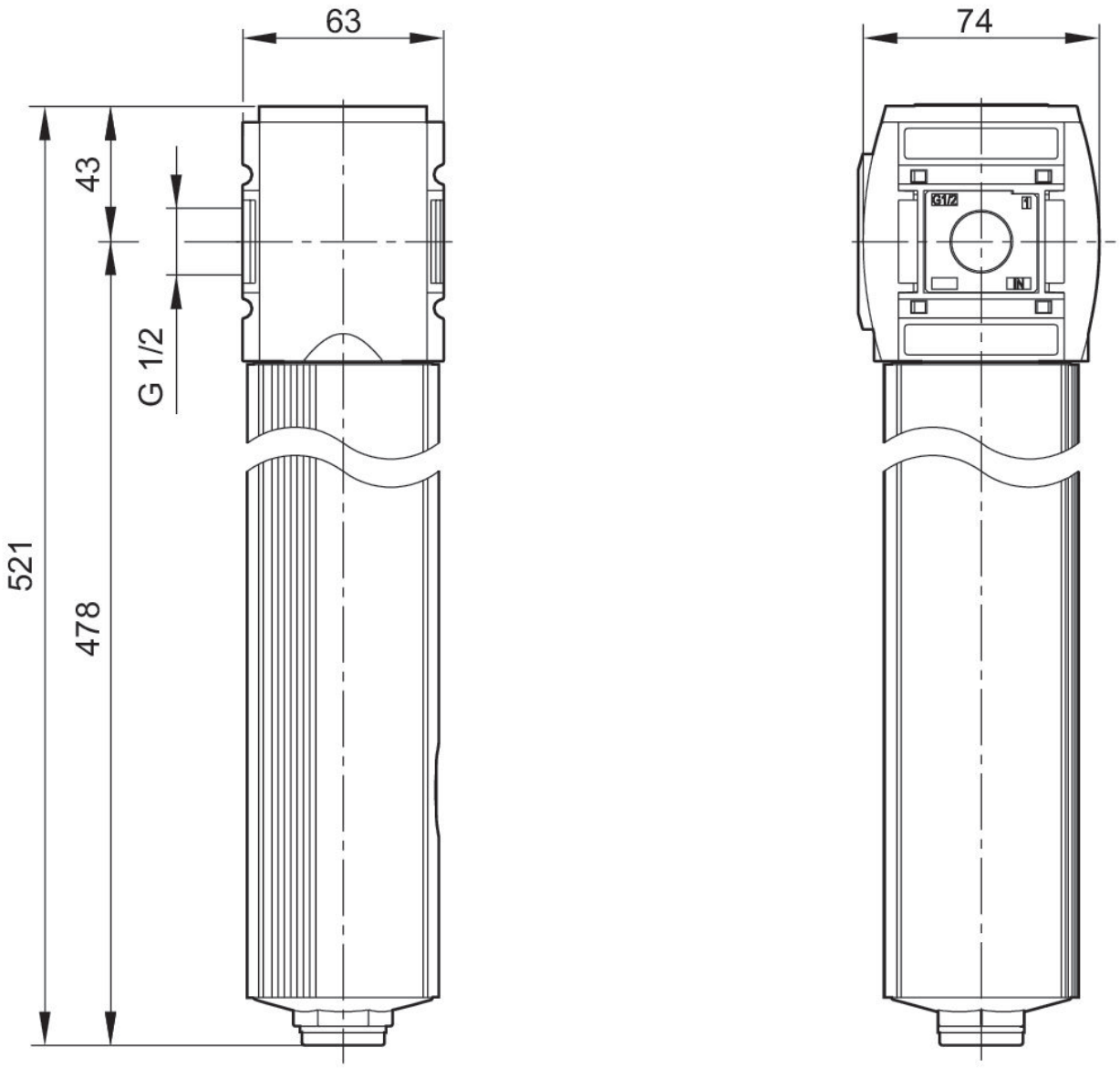
Notice: air may not contain condensate

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

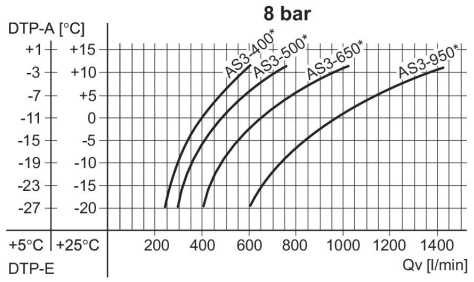
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Pressure dew point reduction: see diagram

Dimensions in mm

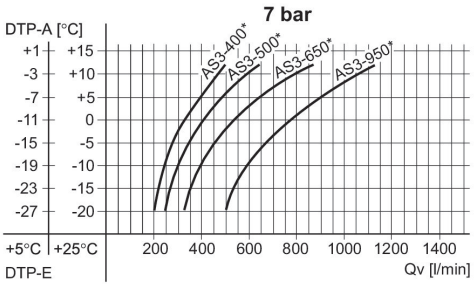


Performance charts



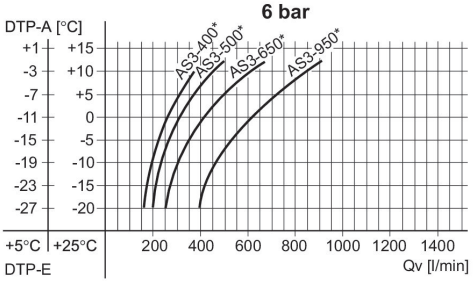
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



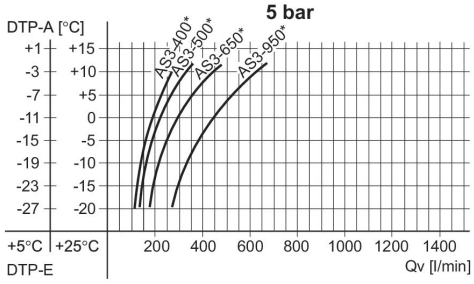
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

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

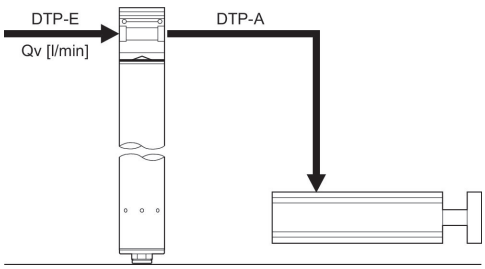


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

Wanted:

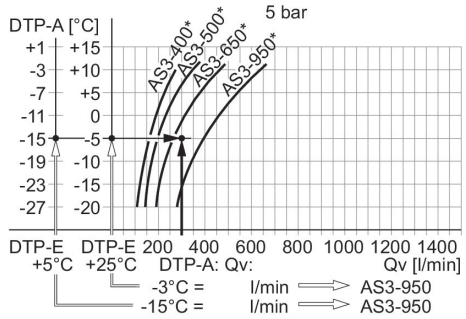
Suitable membrane dryer



Example

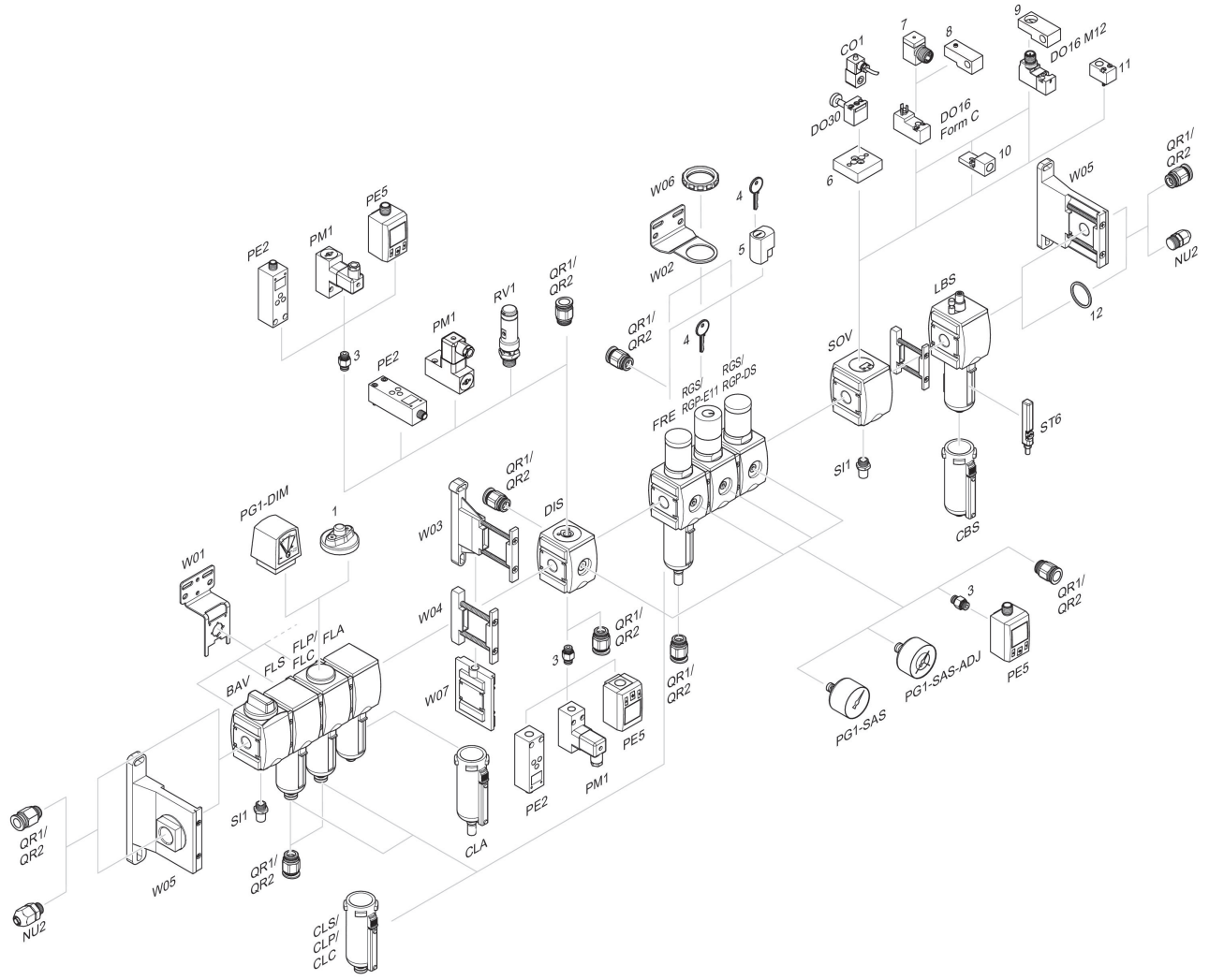
Give values:

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

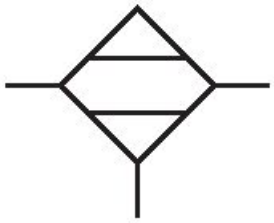
Diaphragm-type dryer, Series AS3-ADD

R412007079

General series information
Series AS3

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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 .

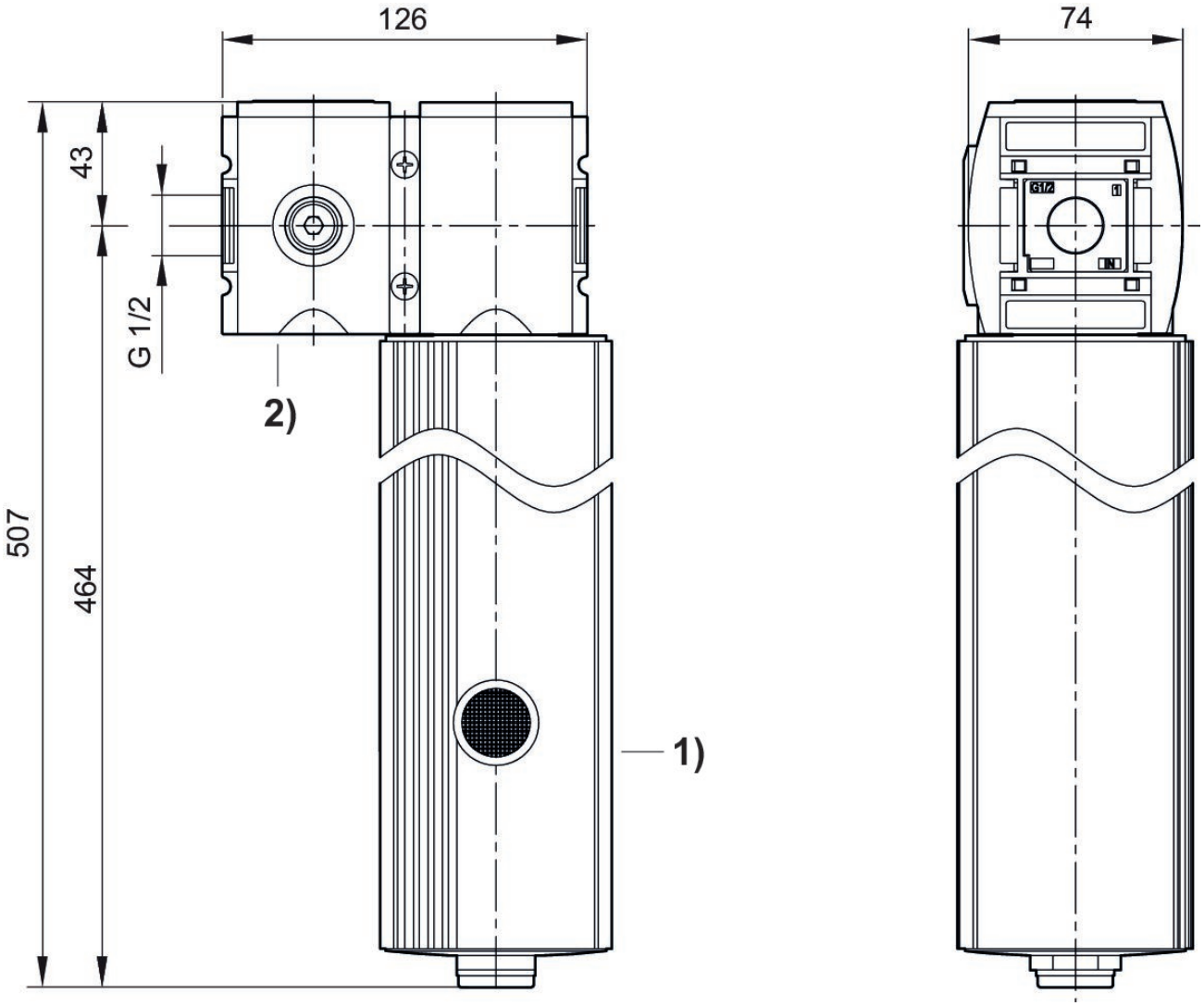
Notice: air may not contain condensate

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.

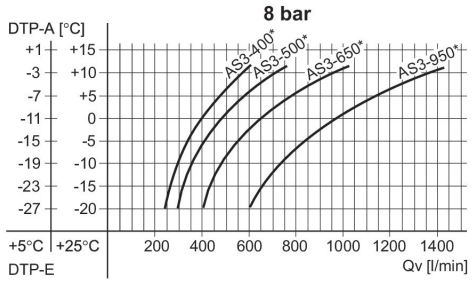
Pressure dew point reduction: see diagram

Dimensions in mm



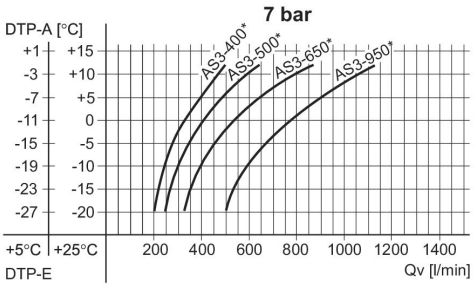
1) Diaphragm-type dryer
2) Incl. second distributor

Performance charts



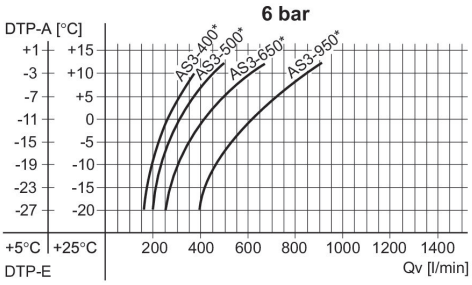
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

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

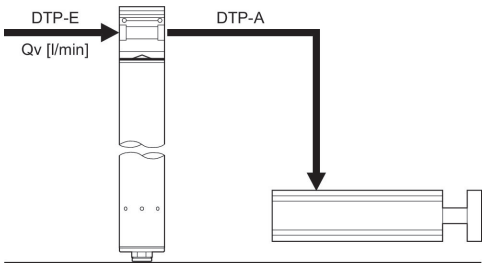


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* Nominal flow Qn

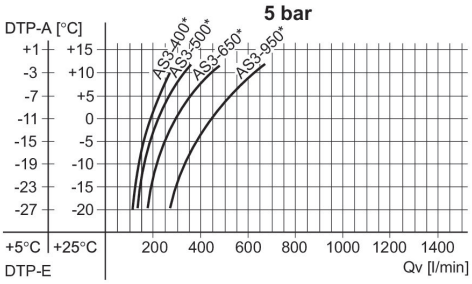
Example

Wanted:

Suitable membrane dryer



Performance charts

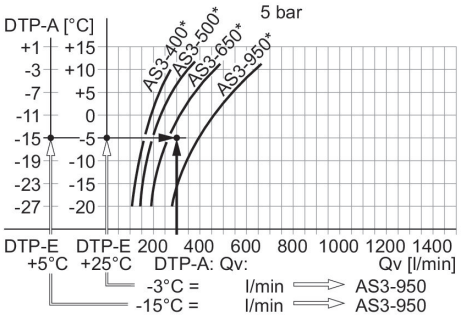


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

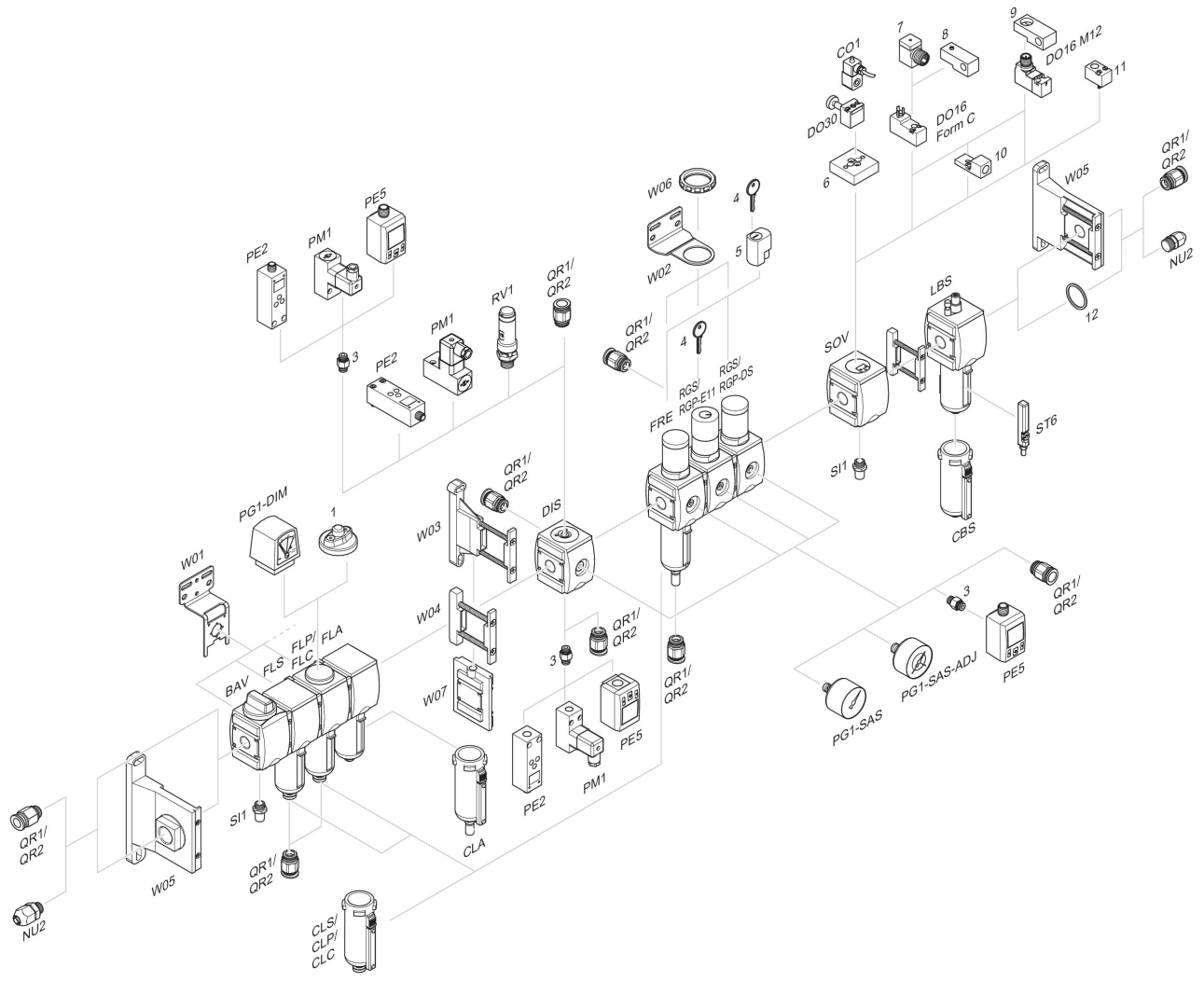
Give values:

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

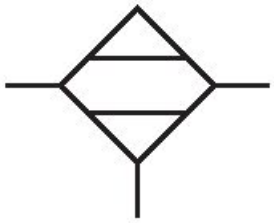
Diaphragm-type dryer, Series AS3-ADD

R412007080

General series information
Series AS3

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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 .

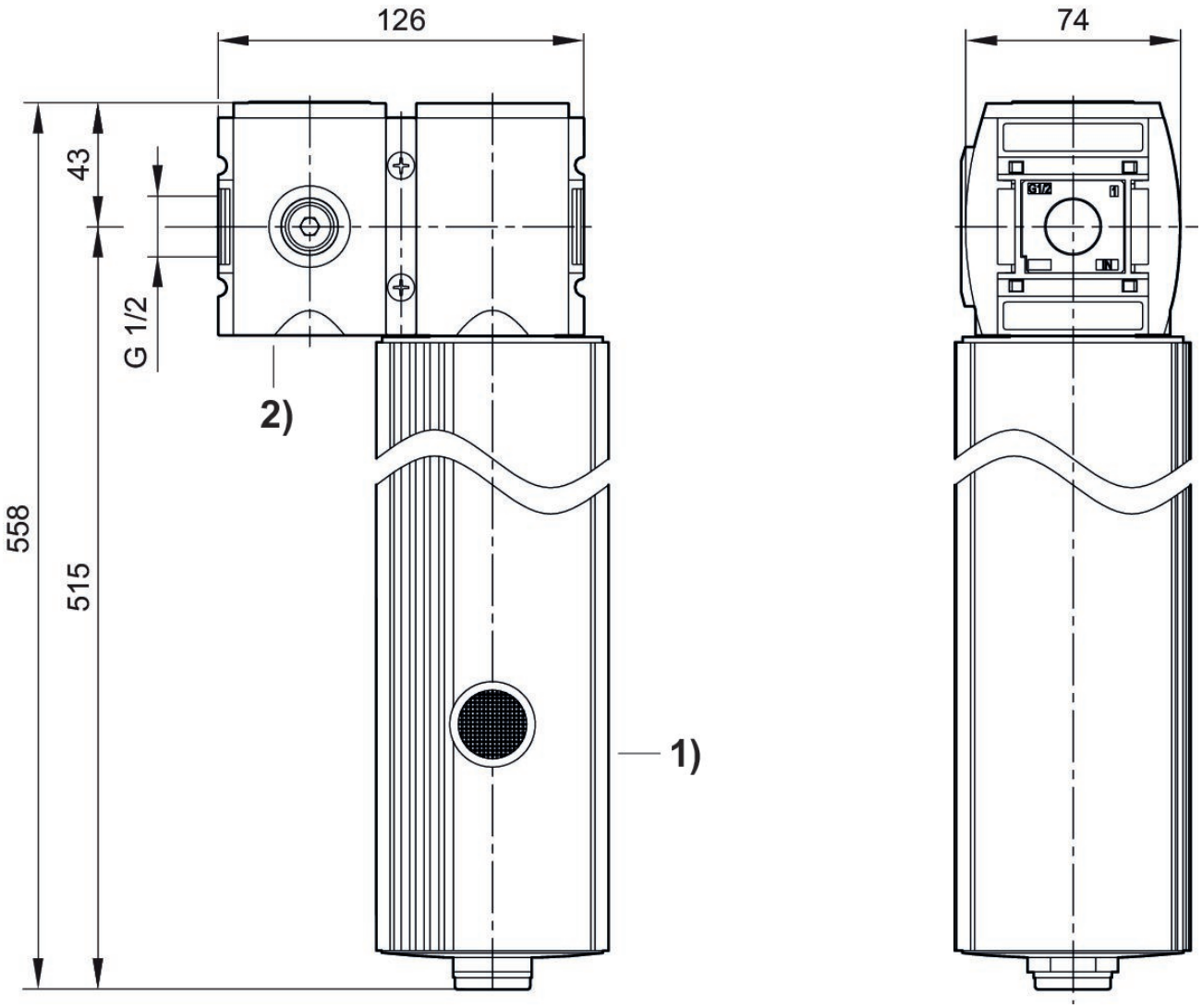
Notice: air may not contain condensate

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.

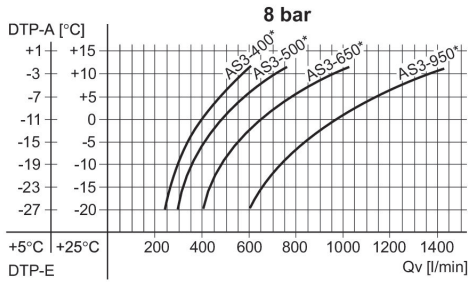
Pressure dew point reduction: see diagram

Dimensions in mm



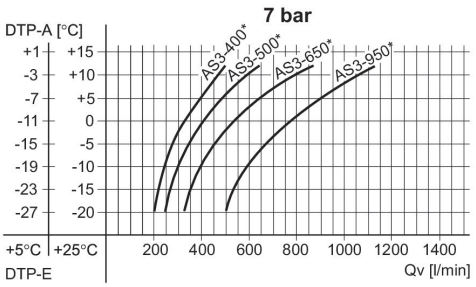
1) Diaphragm-type dryer
2) Incl. second distributor

Performance charts



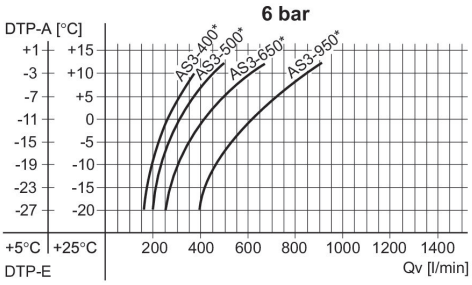
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

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

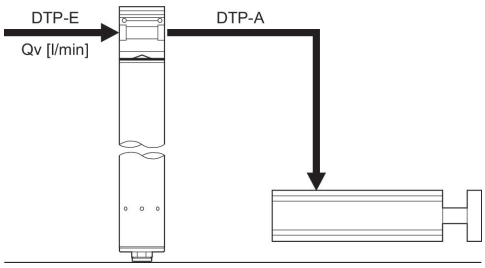


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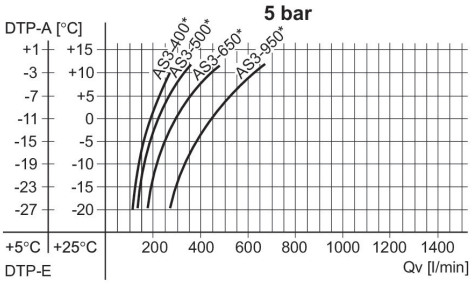
Example

Wanted:

Suitable membrane dryer



Performance charts

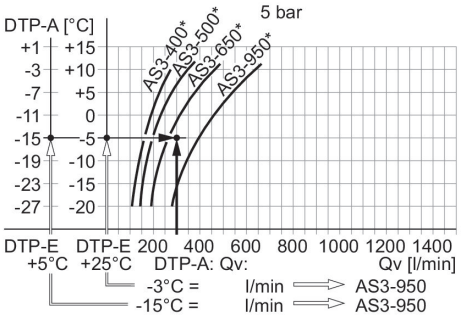


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

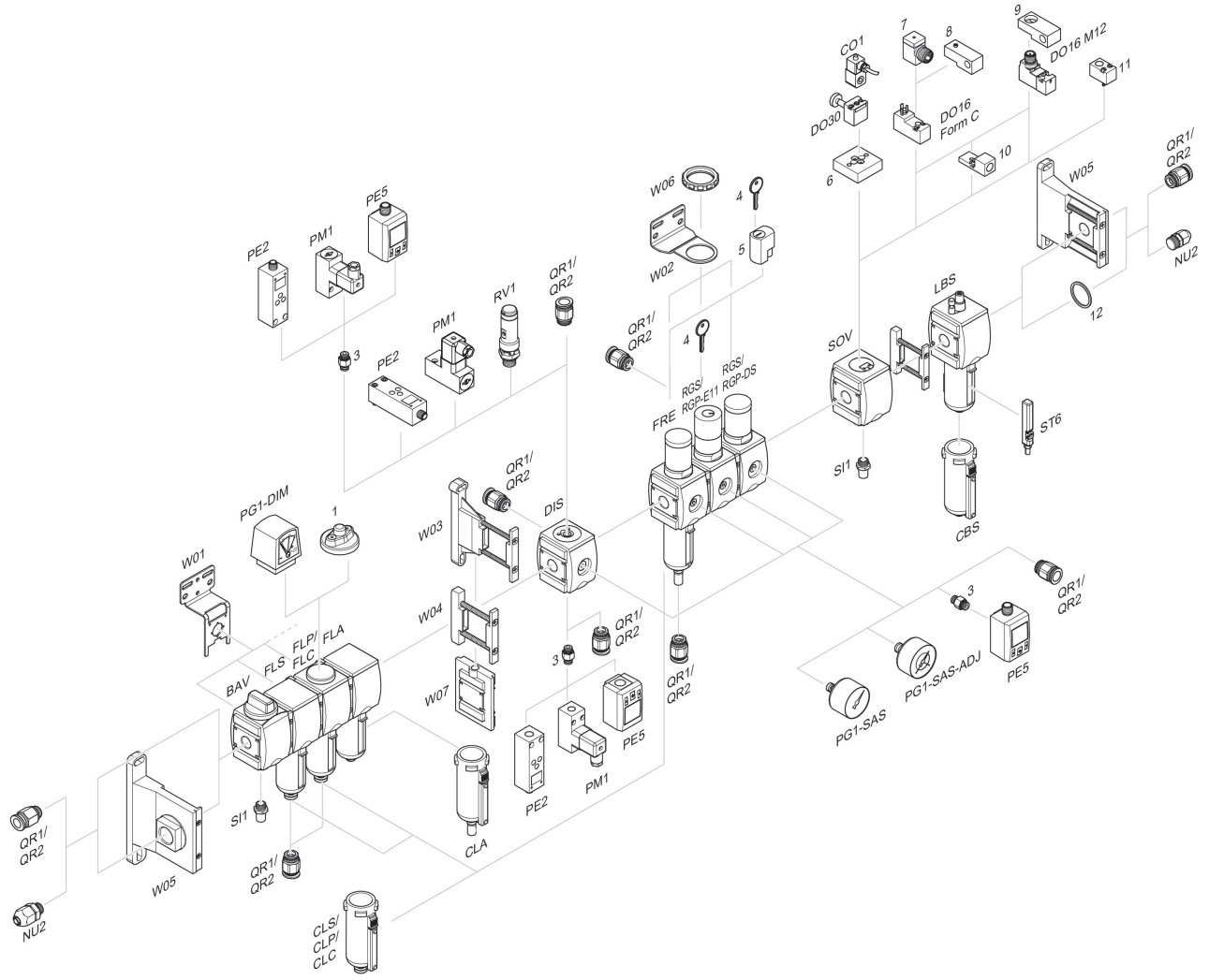
Give values:

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

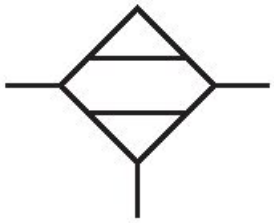
Diaphragm-type dryer, Series AS3-ADD

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 .

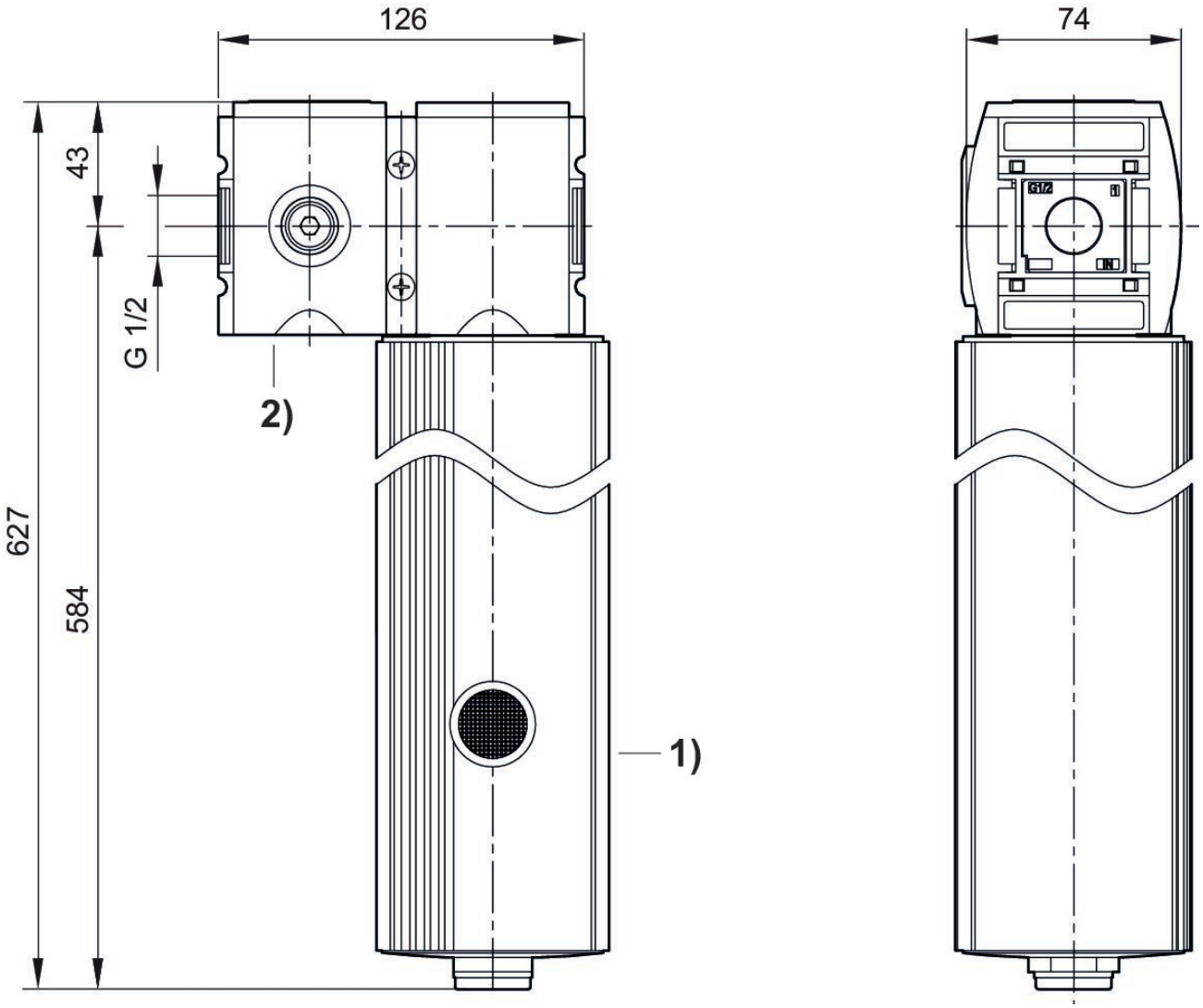
Notice: air may not contain condensate

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.

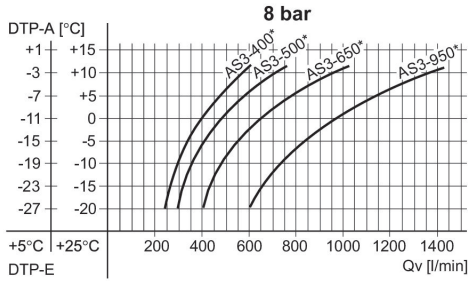
Pressure dew point reduction: see diagram

Dimensions in mm



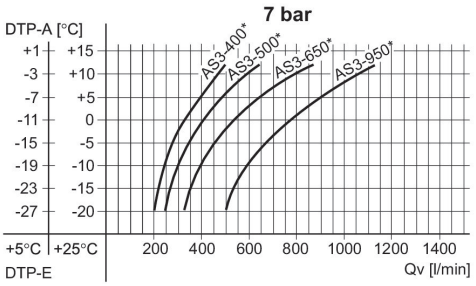
1) Diaphragm-type dryer
2) Incl. second distributor

Performance charts



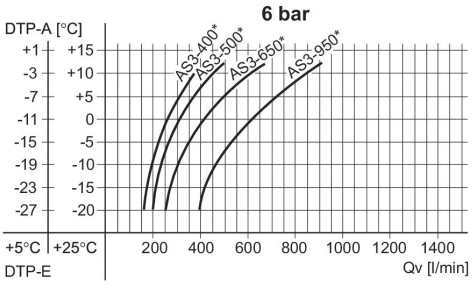
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

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

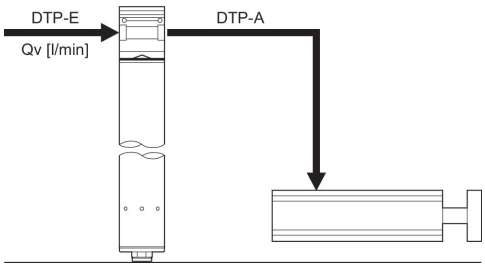


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

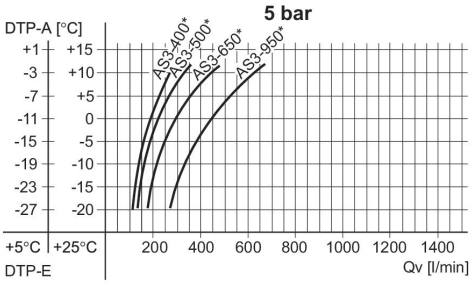
Example

Wanted:

Suitable membrane dryer



Performance charts

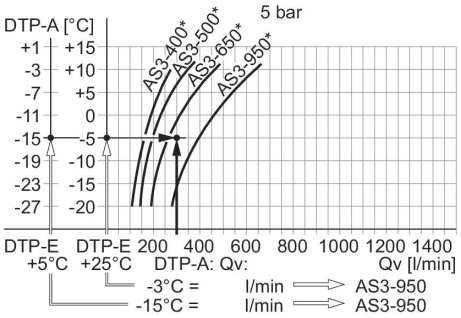


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Example

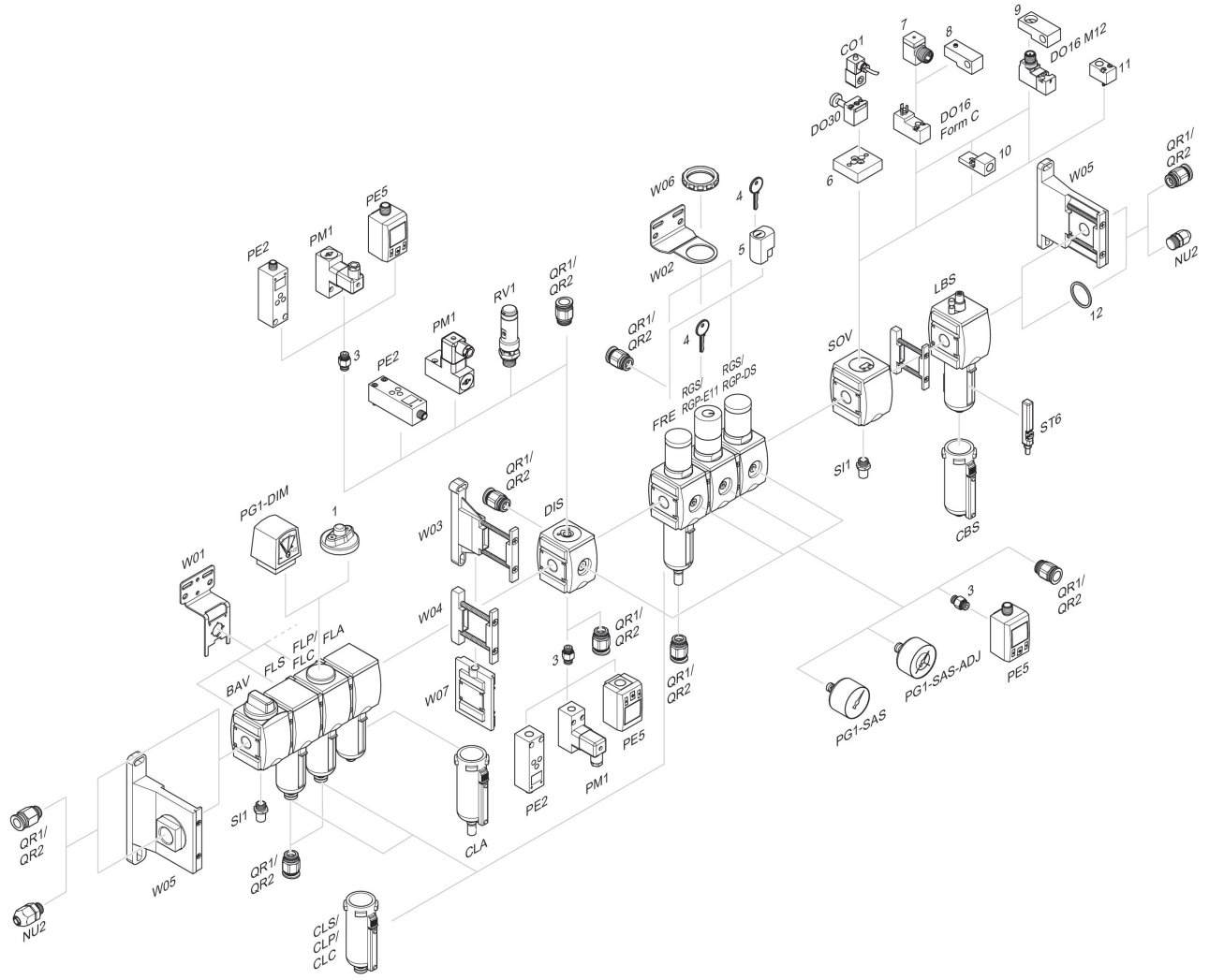
Give values:

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

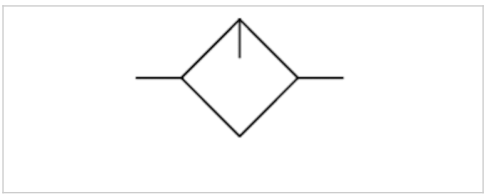


1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

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 cm³
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.

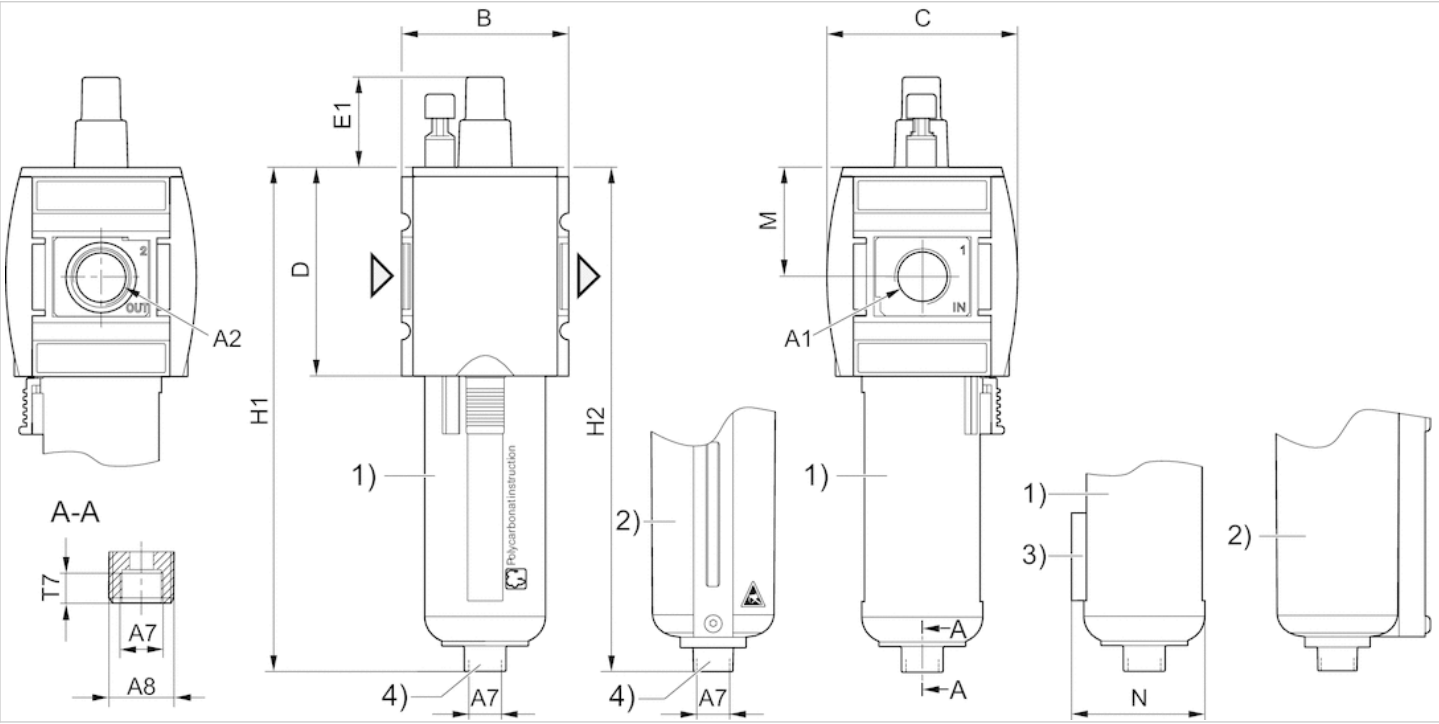
Oil dosing at 1000 l/min 1-2 drops

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

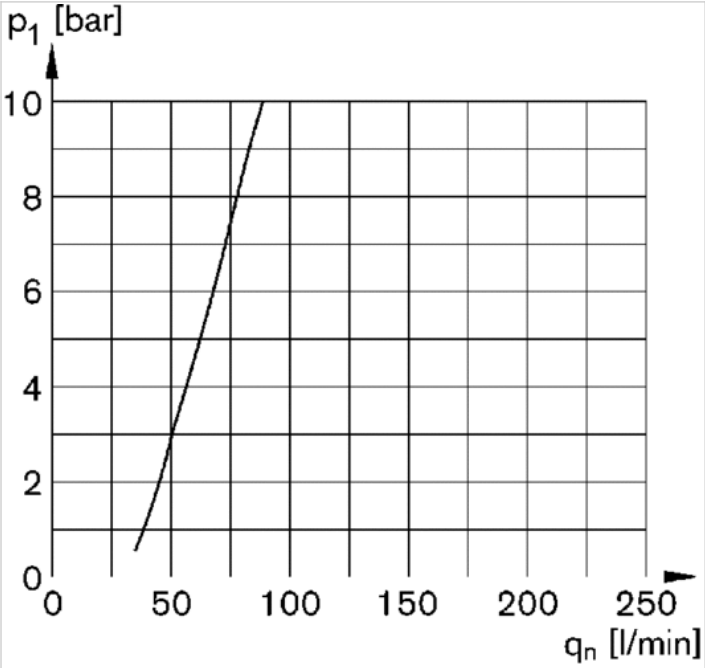
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Holder for sensor
4) Port for semi-automatic oil filling

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

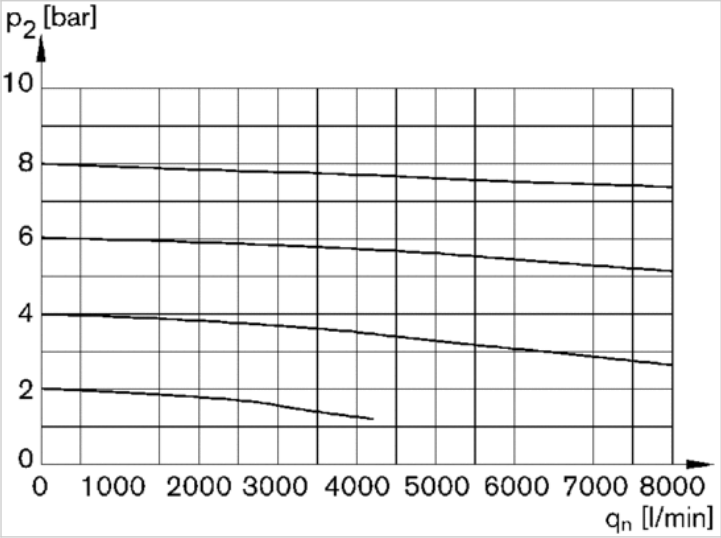
Diagrams

Lubricator activation margin



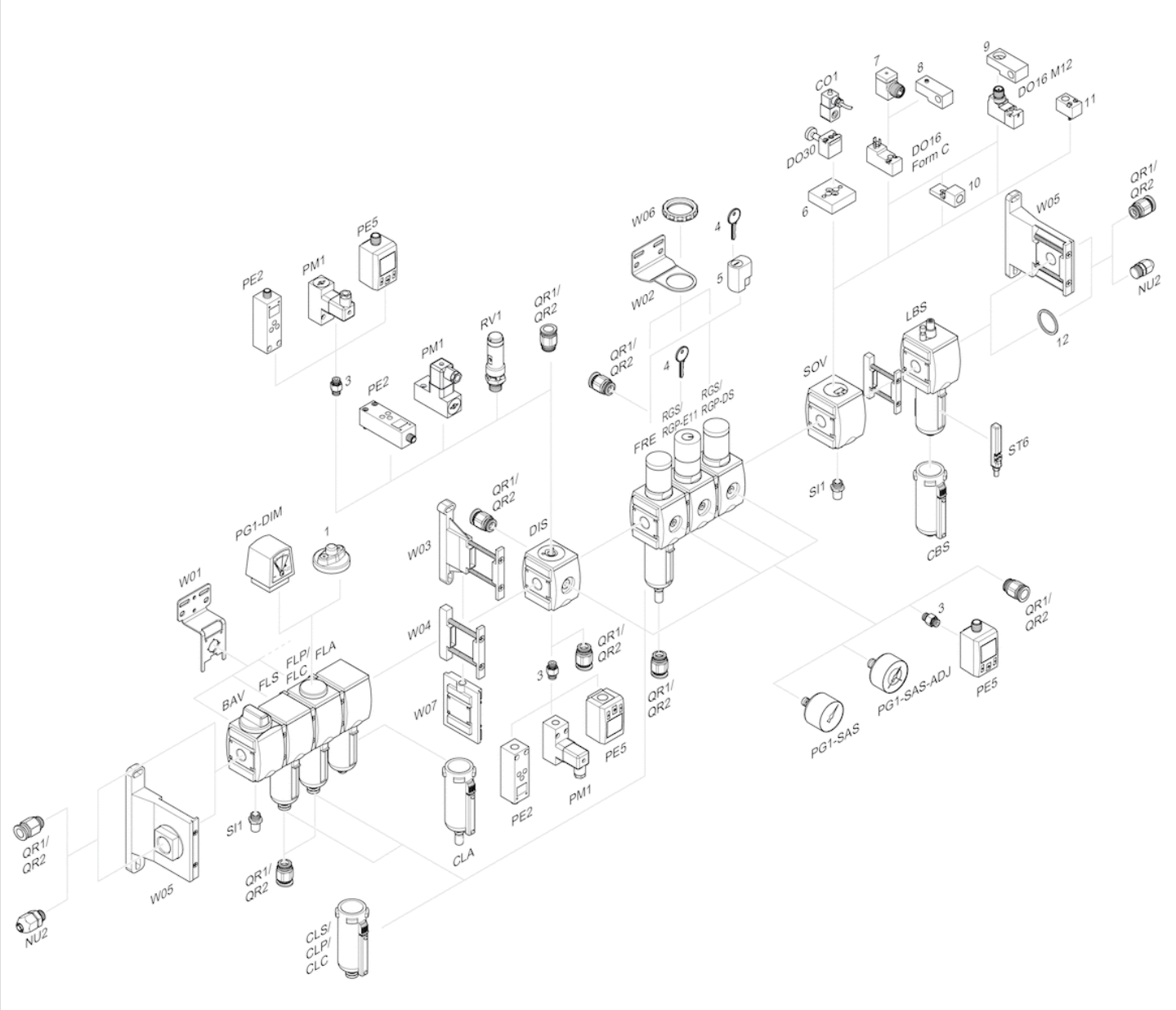
p1 = working pressure
qn = nominal flow

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, 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 Qn with secondary pressure p2 = 6 bar at Δp = 0.1 bar

1) With adjustment screw lock.

Technical information

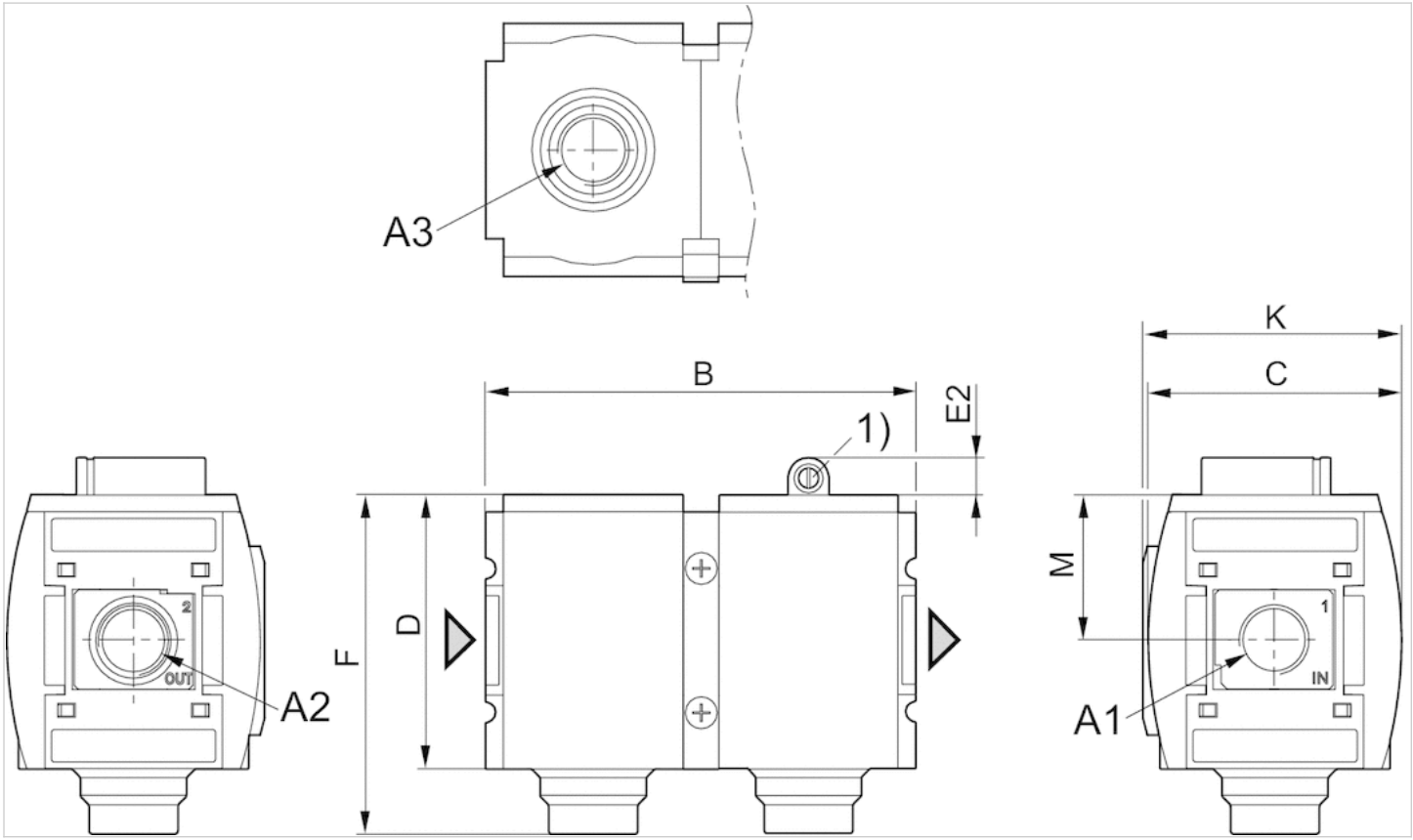
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for 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 DO16



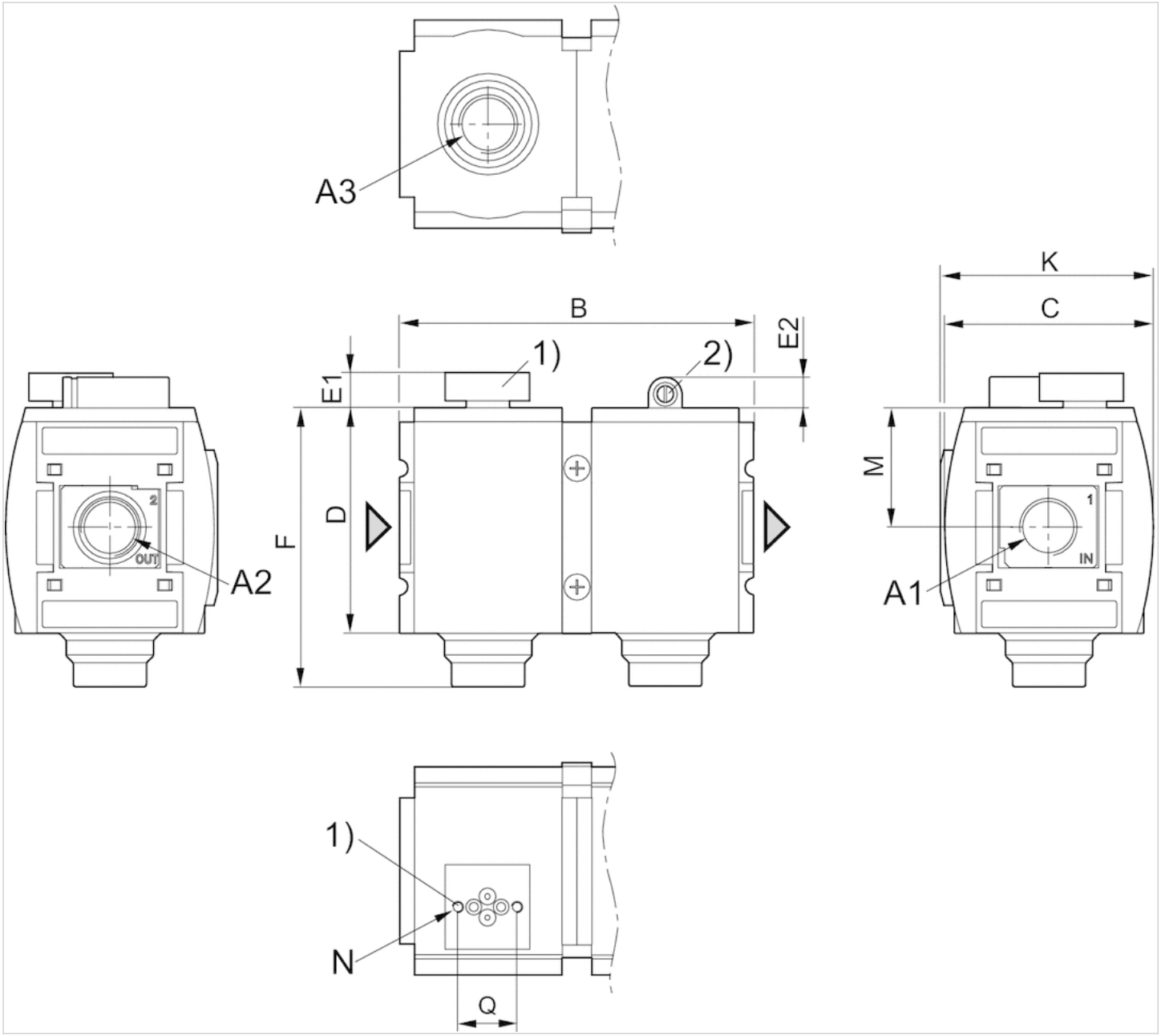
A1 = input
A2 = output
1) Adjustment screw for filling time

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



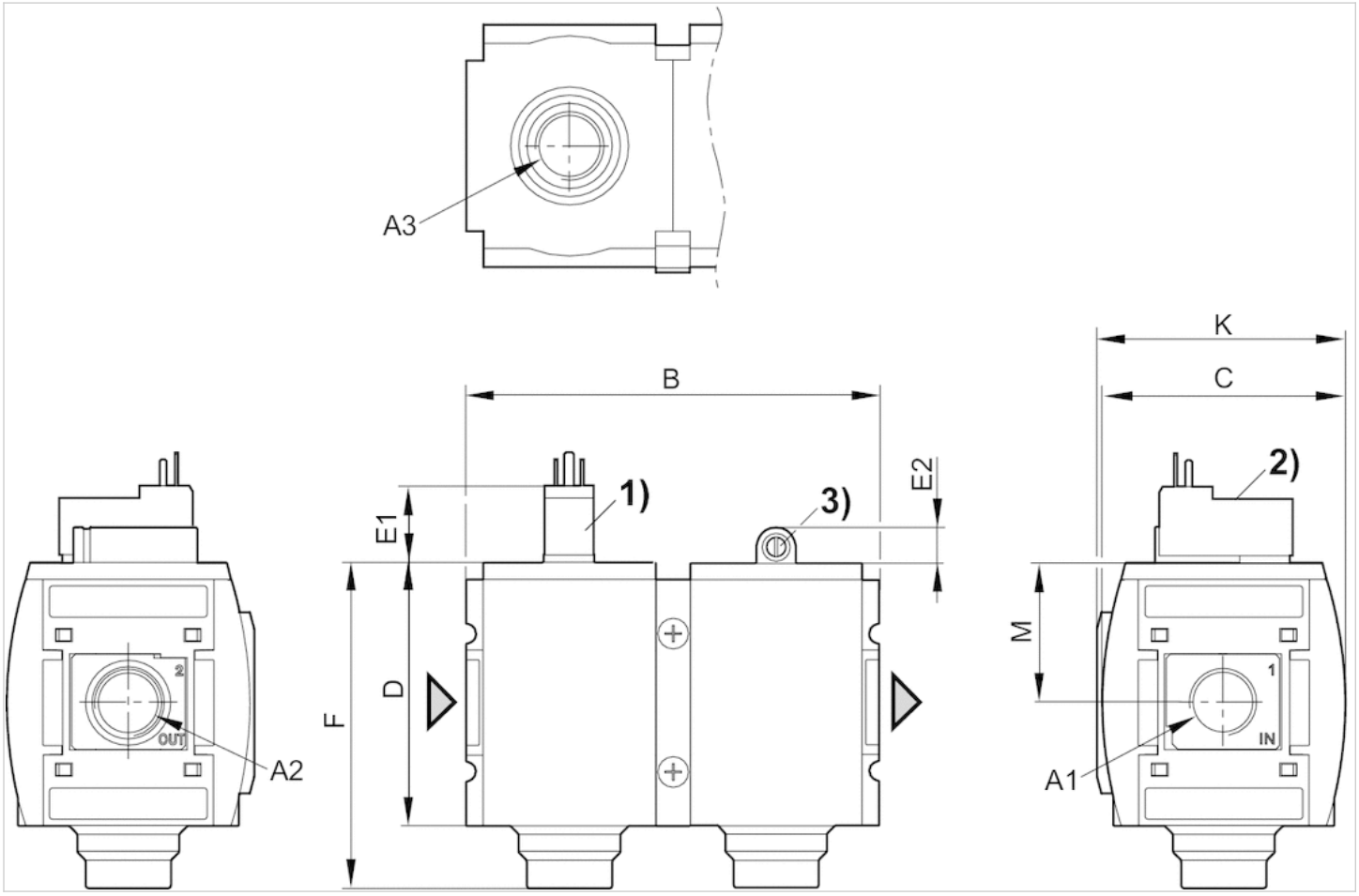
A1 = input
A2 = output
A3 = ventilation port
1) Transition plate with CNOMO porting configuration for pilot valve DO30
2) Adjustment screw for filling time

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



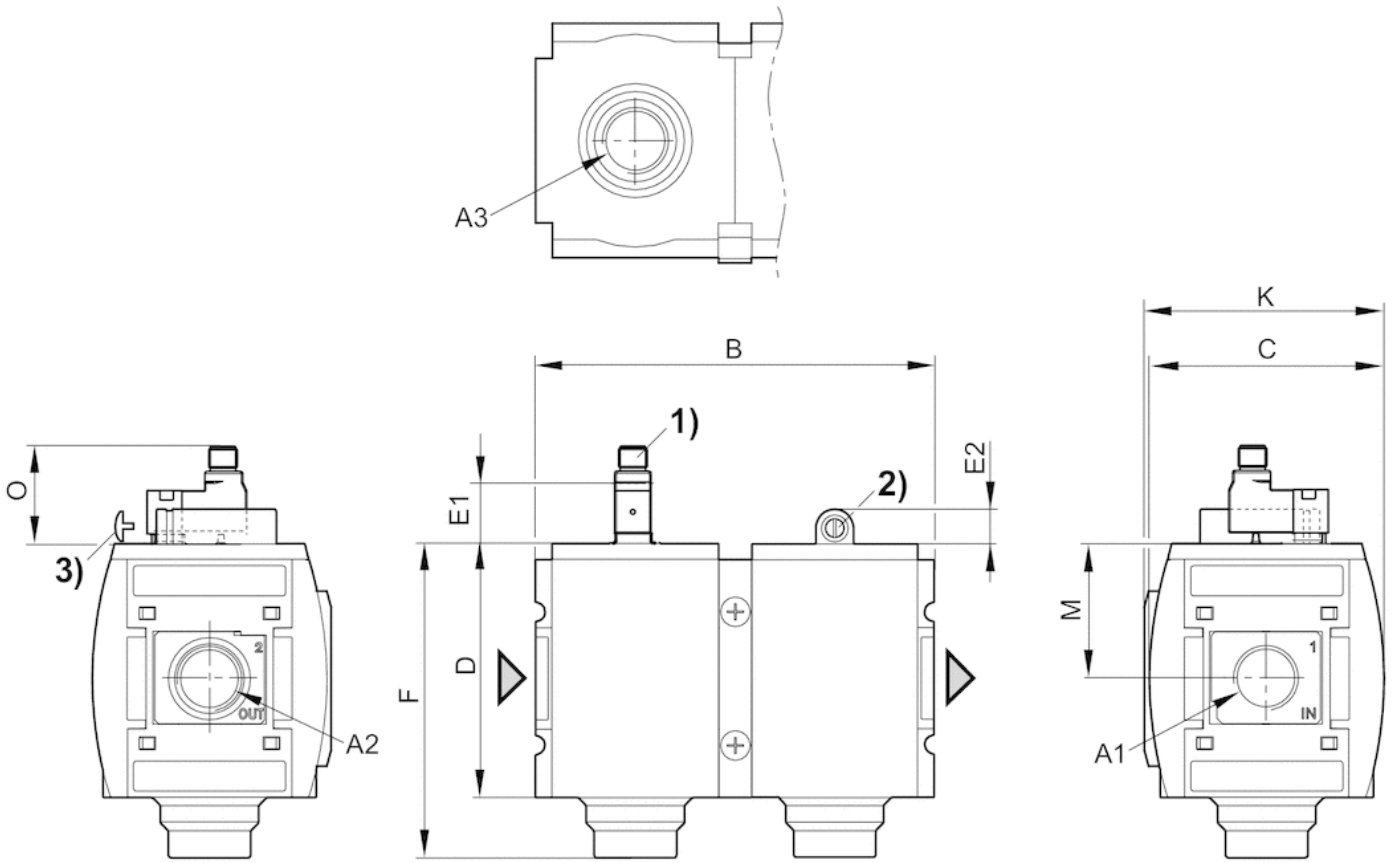
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override
3) Adjustment screw for filling time

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



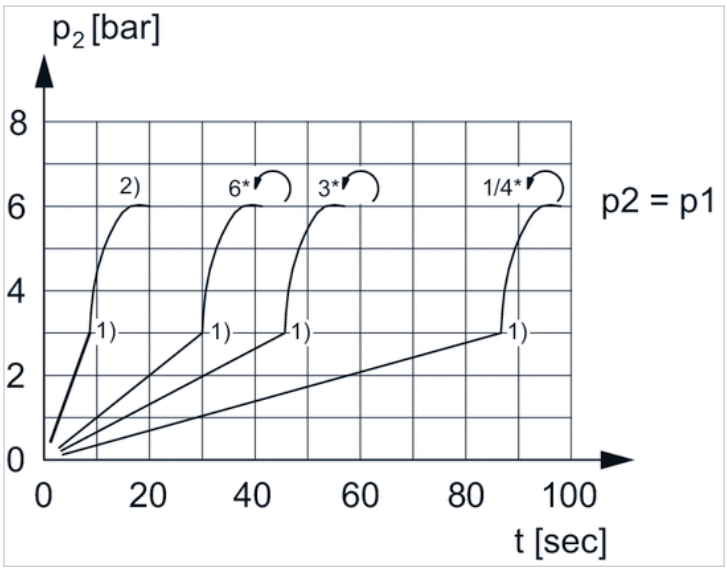
A1 = input
A2 = output
A3 = ventilation port
1) Port for plug M12x1
2) Adjustment screw for filling time
3) Adjustment screw lock

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

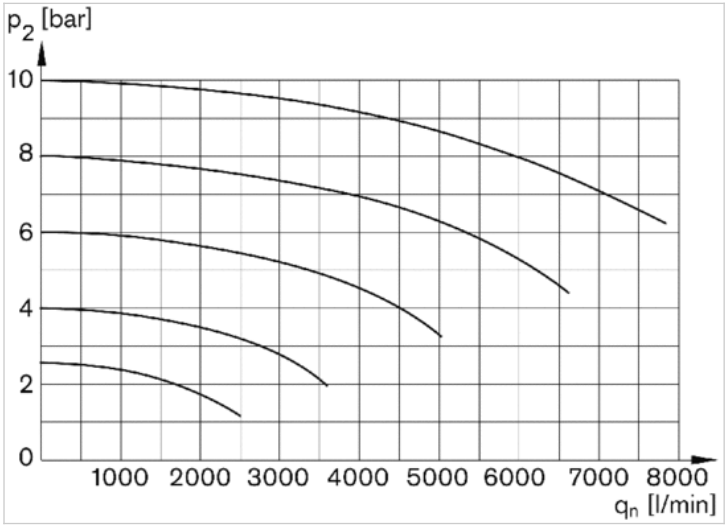
Diagrams

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 ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

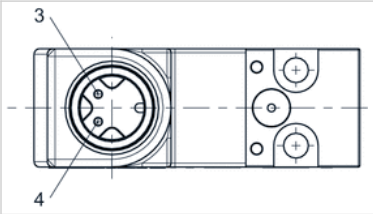
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

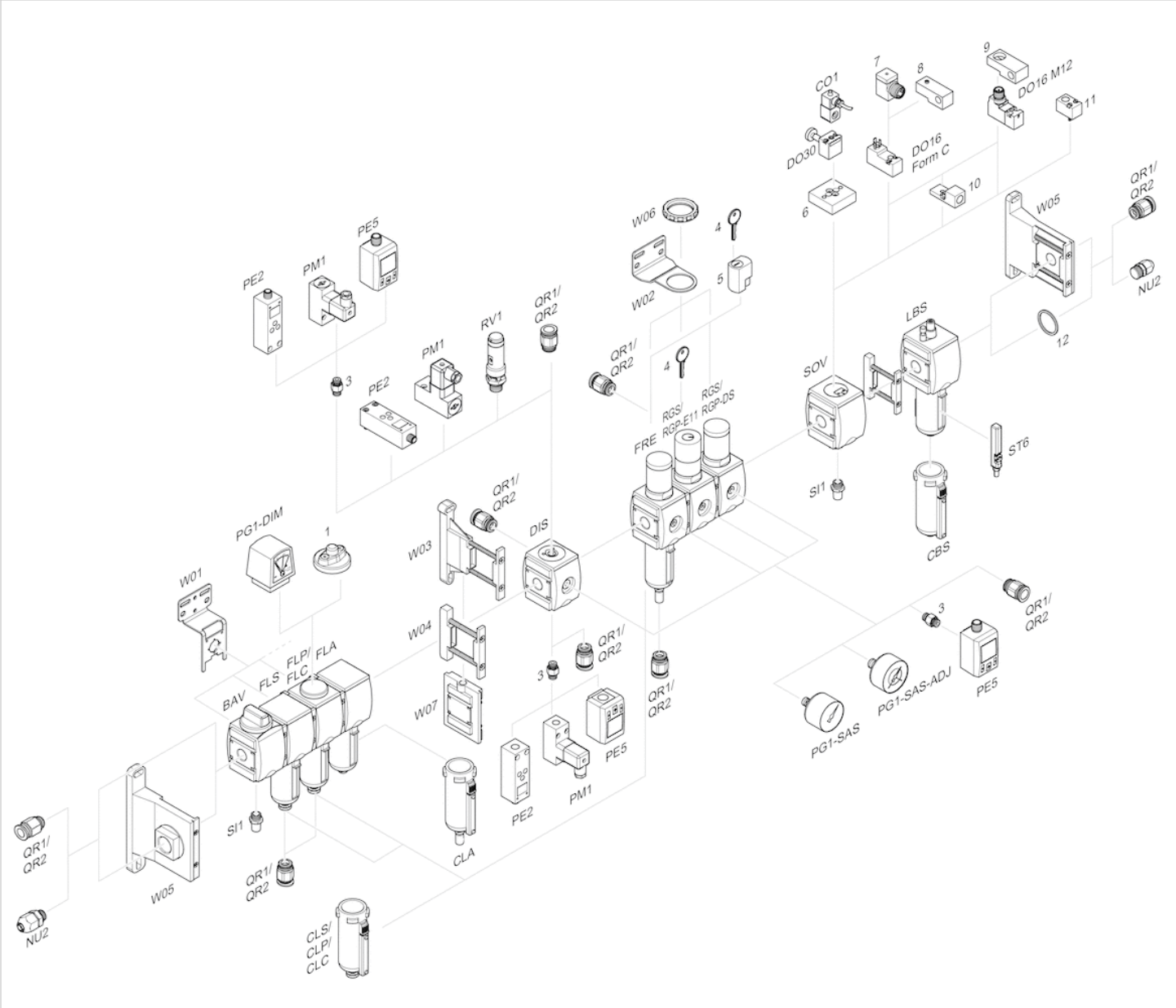
Pin assignments

Pin assignment M12x1



3: +/-
4: +/-

Accessories overview



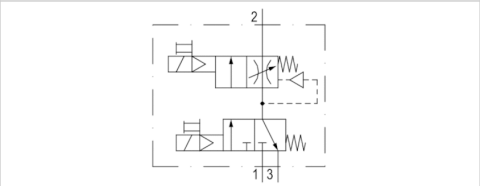
1 = contamination display

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

Technical information

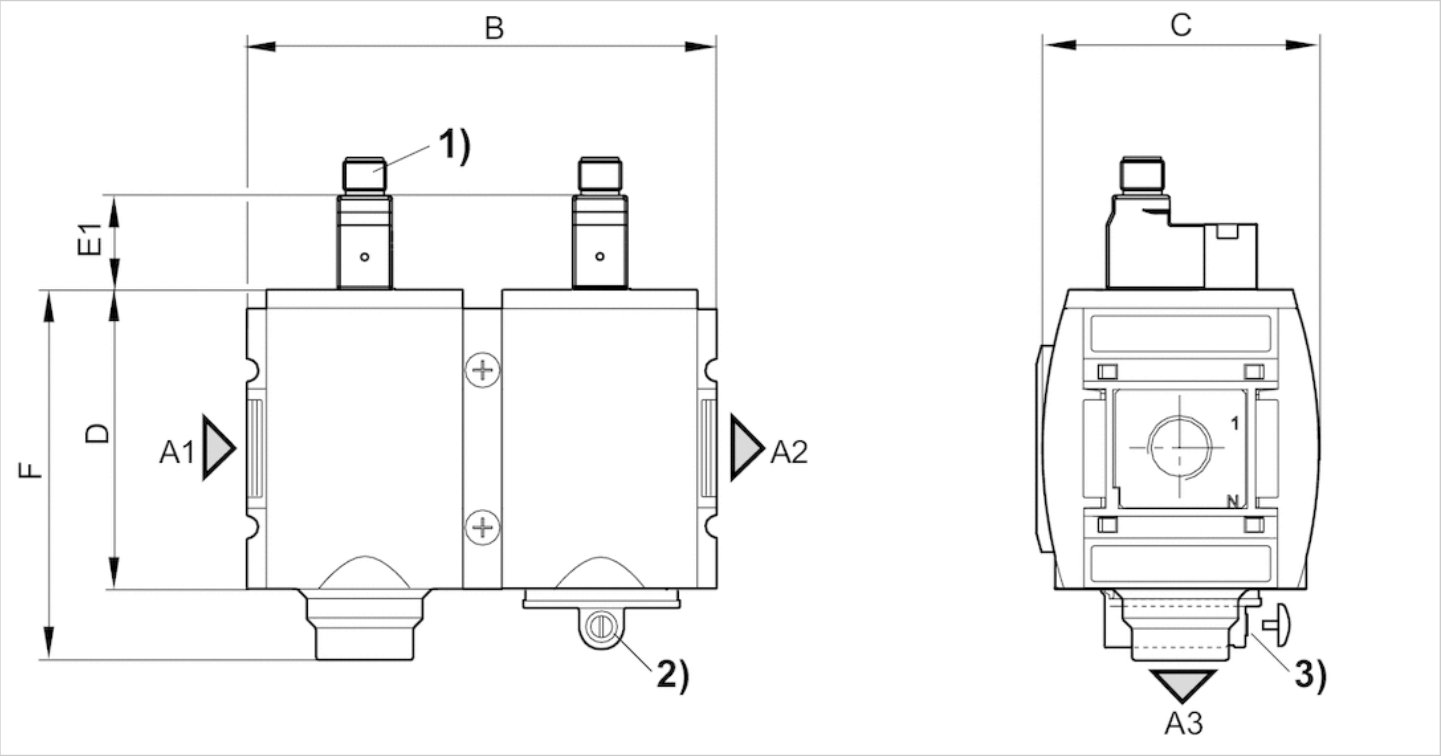
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.
For unthrottled operation, the filling valve must be permanently electrically actuated.
Actuating the electric priority circuit disrupts the slow pressure build-up and pressure p1 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



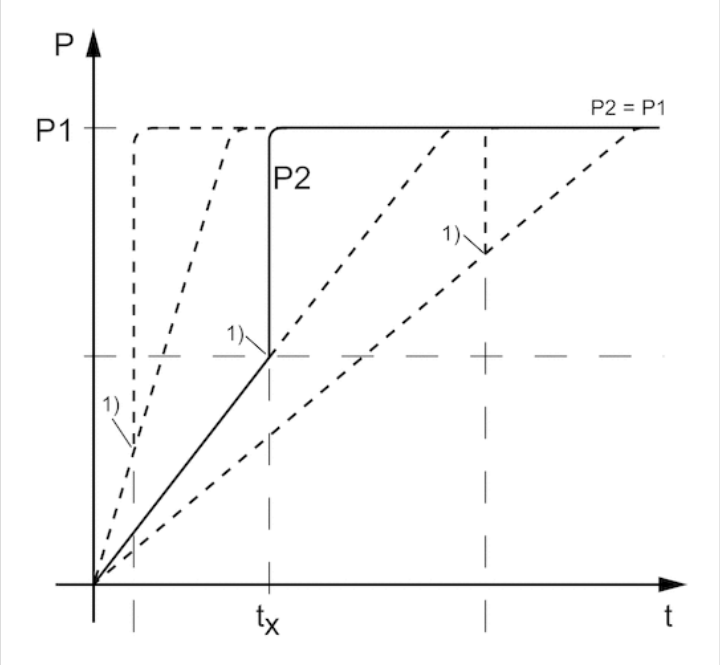
A1 = input
A2 = output
A3 = ventilation port
1) Electr. connection: valve plug connector M12x1
2) Adjustment screw for filling time
3) Adjustment screw lock

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

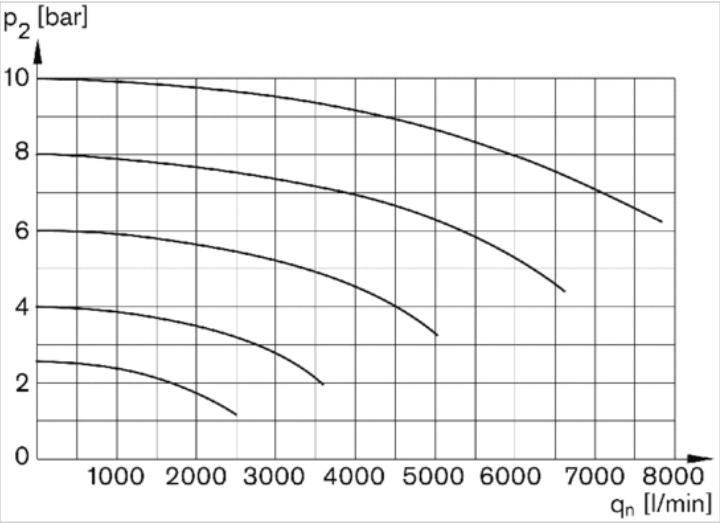
Diagrams

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)

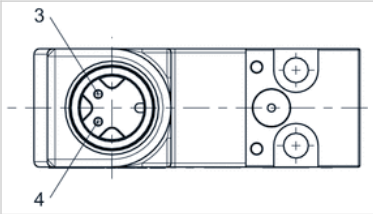
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

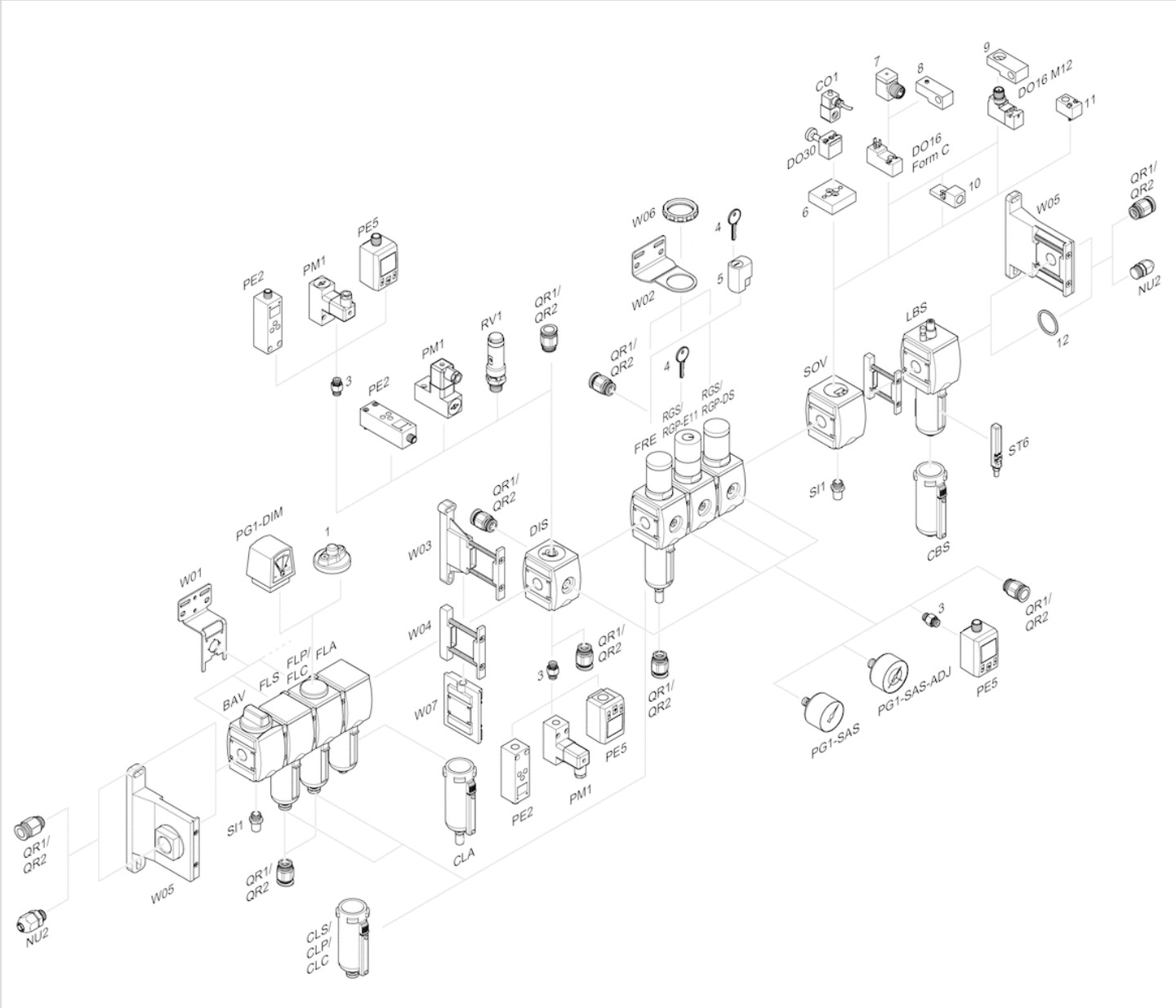
Pin assignments

Pin assignment M12x1



3: +/-
4: +/-

Accessories overview



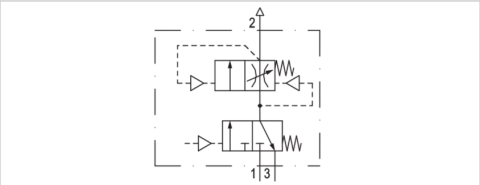
1 = contamination display

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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 Δp = 1 bar

1) With adjustment screw lock

Technical information

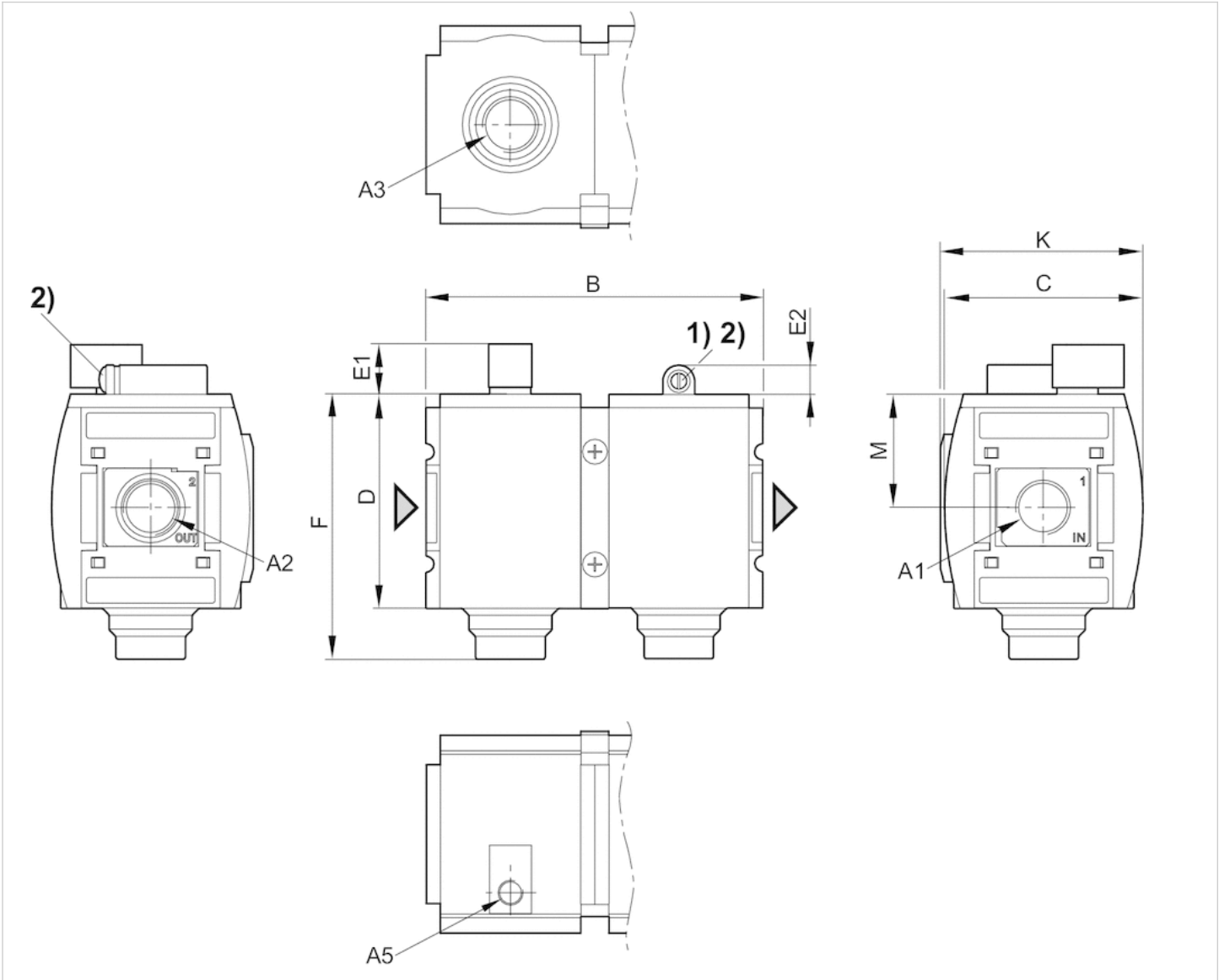
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. 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



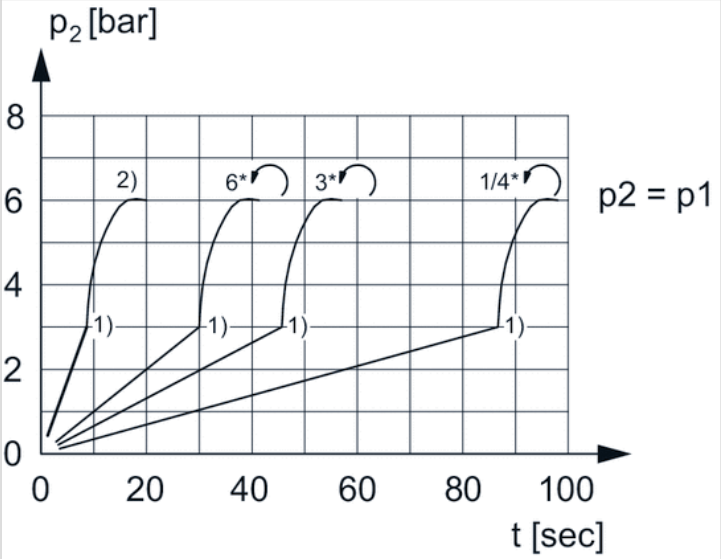
A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock

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

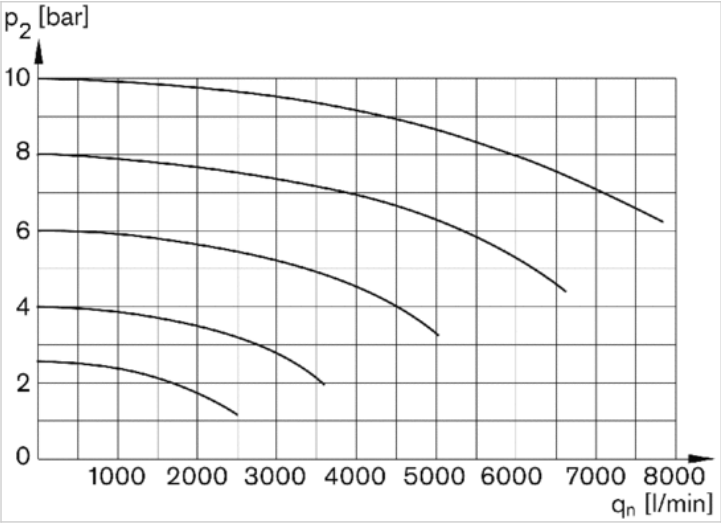
Diagrams

Secondary pressure while filling



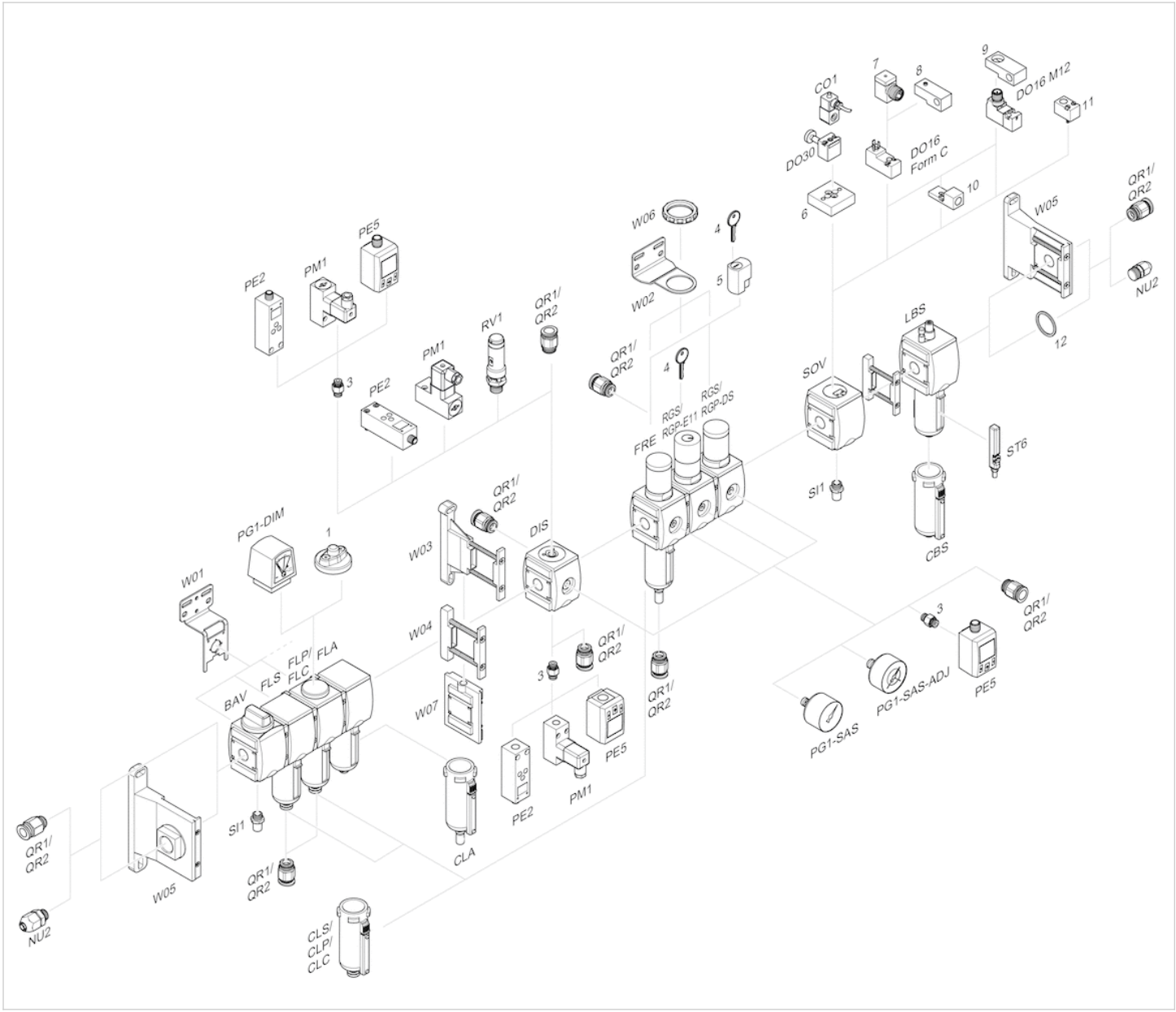
p1 = working pressure
p2 = secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Accessories overview

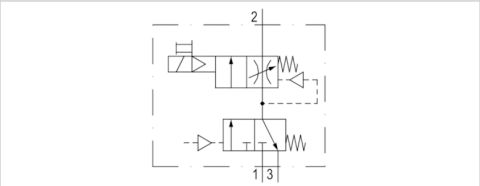


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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
			Qn	Qn 1▸2	Qn 2▸3
R412007393	G 1/2	G 1/2	3500 l/min	3500 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 .
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.

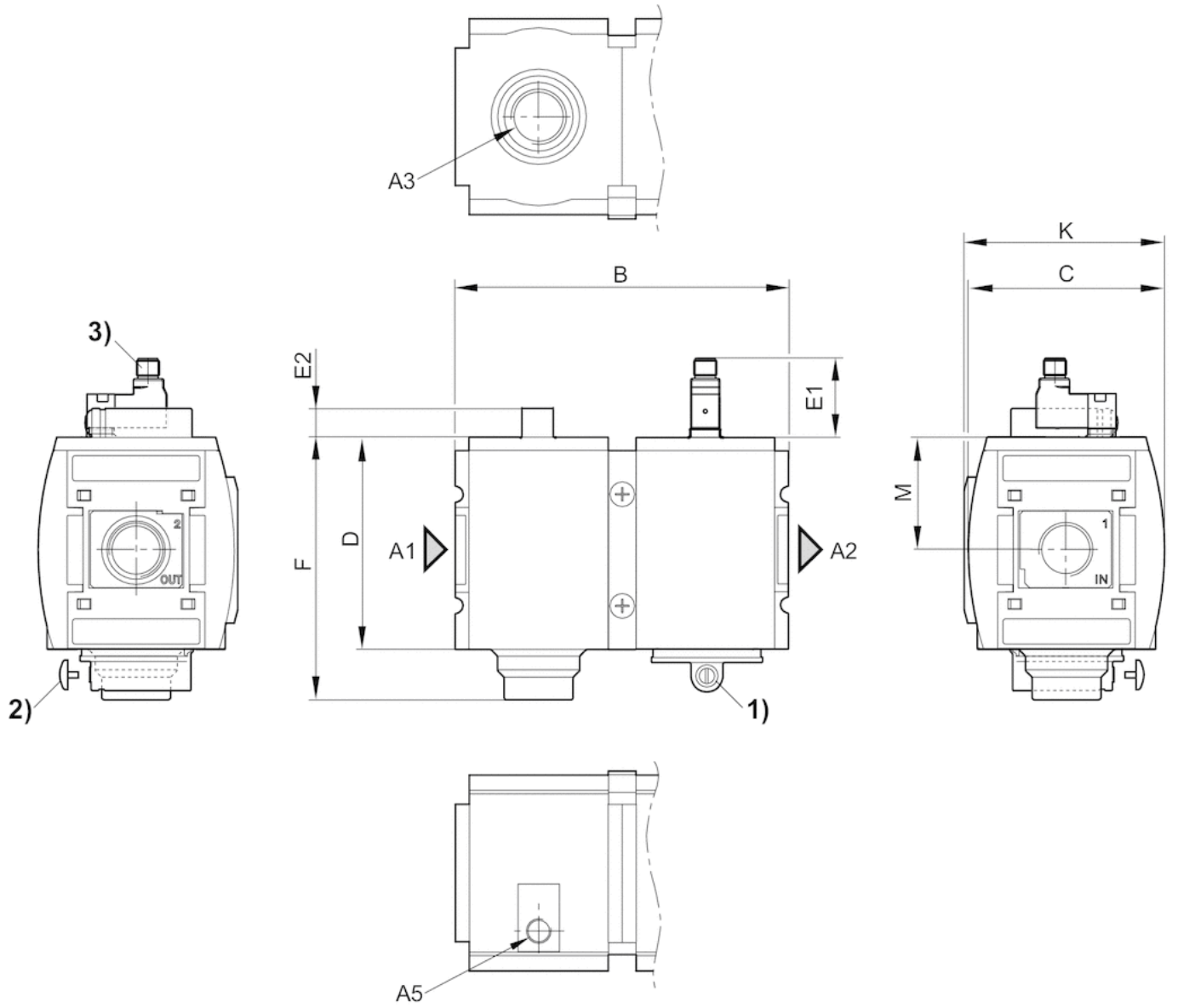
Technical information

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

Material	
Threaded bushing	Die cast zinc

Dimensions

Dimensions



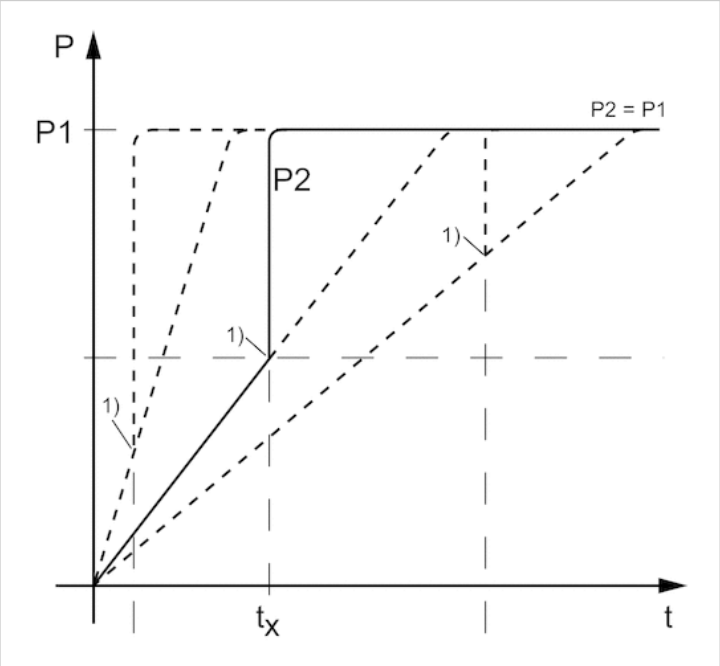
A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection
1) Adjustment screw for filling time
2) Adjustment screw lock
3) For valve plug connectors M12x1

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

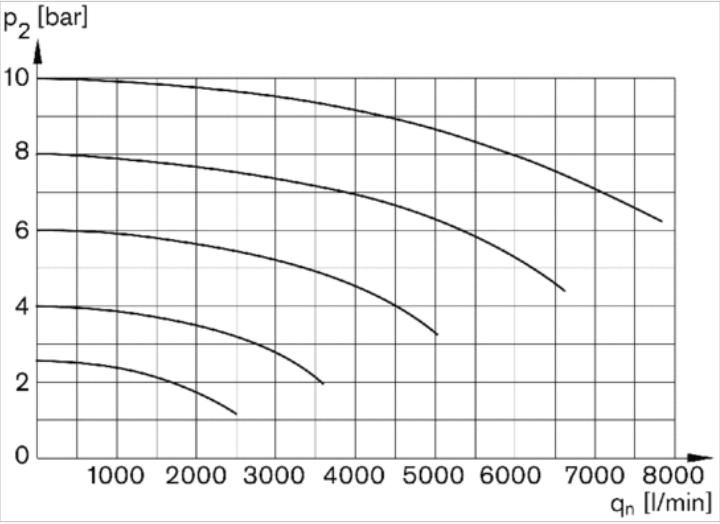
Diagrams

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)

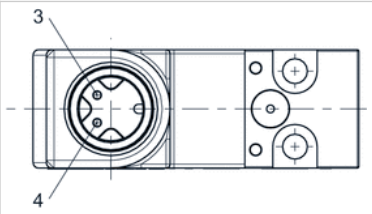
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

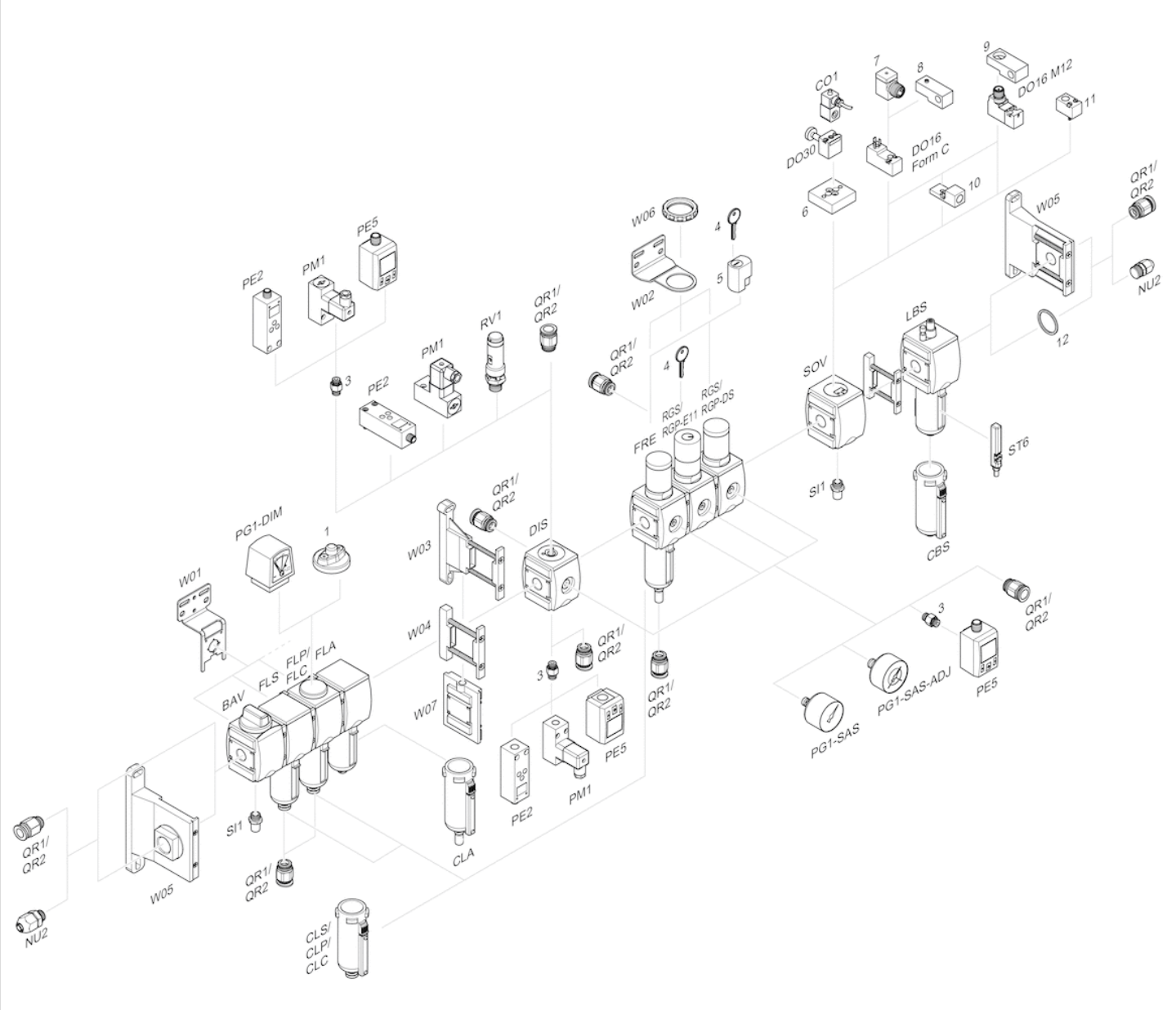
Pin assignments

Pin assignment M12x1



3: +/-
4: +/-

Accessories overview

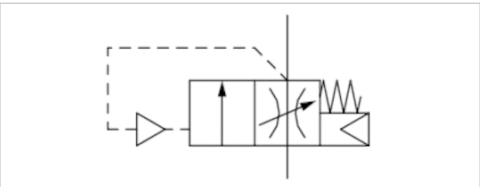


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Filling valve, Series AS3-SSV

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





Version	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	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 Δp = 1 bar

1) With adjustment screw lock.

Technical information

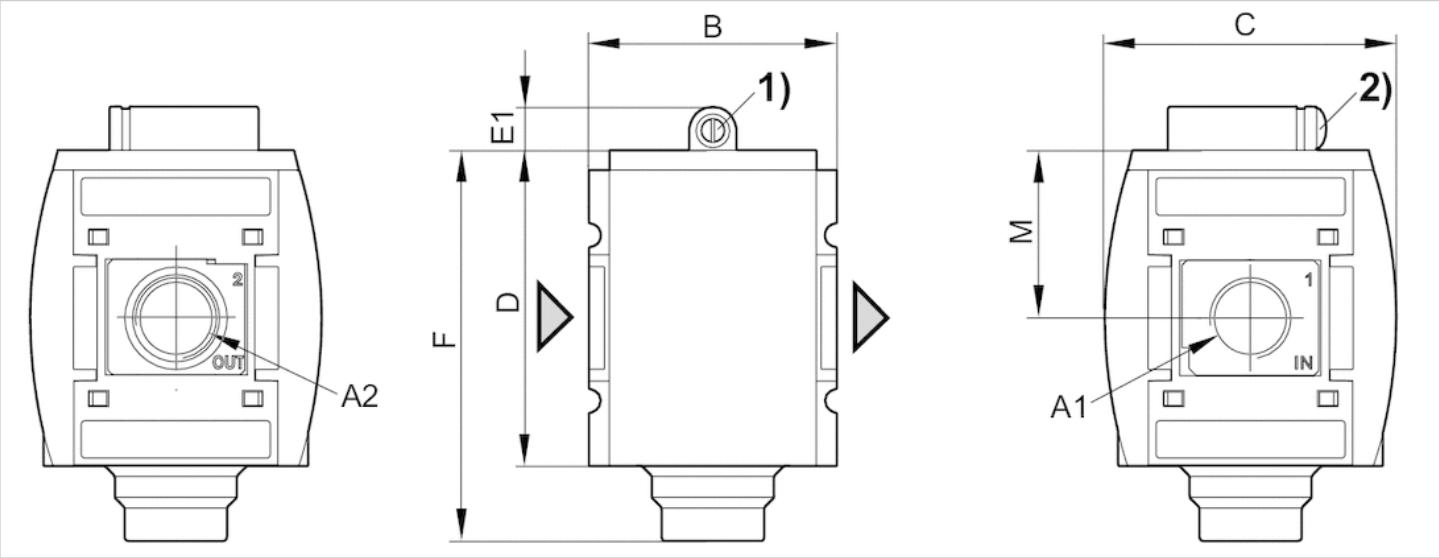
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for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



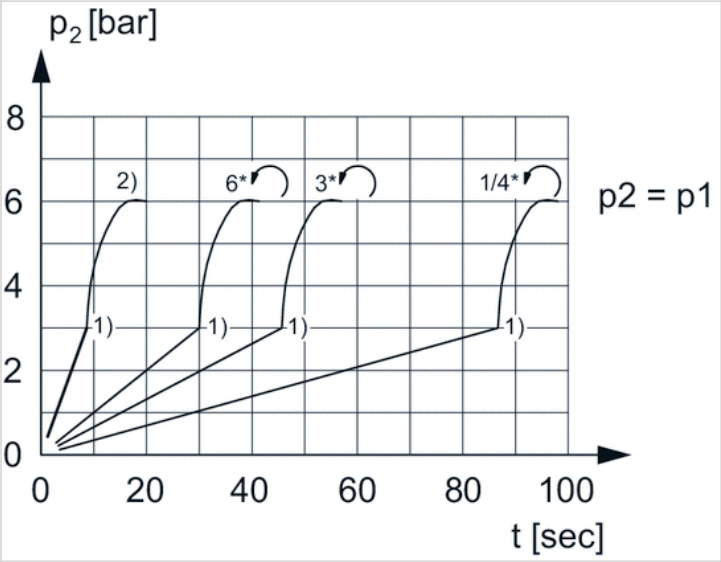
A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock

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

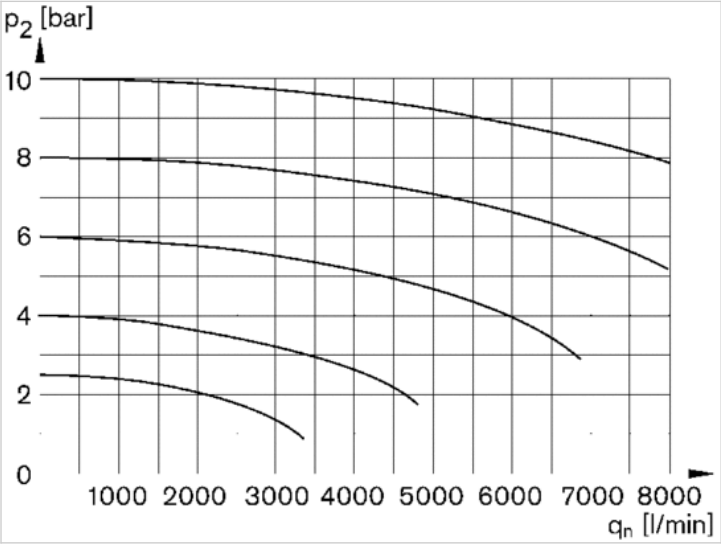
Diagrams

Secondary pressure while filling



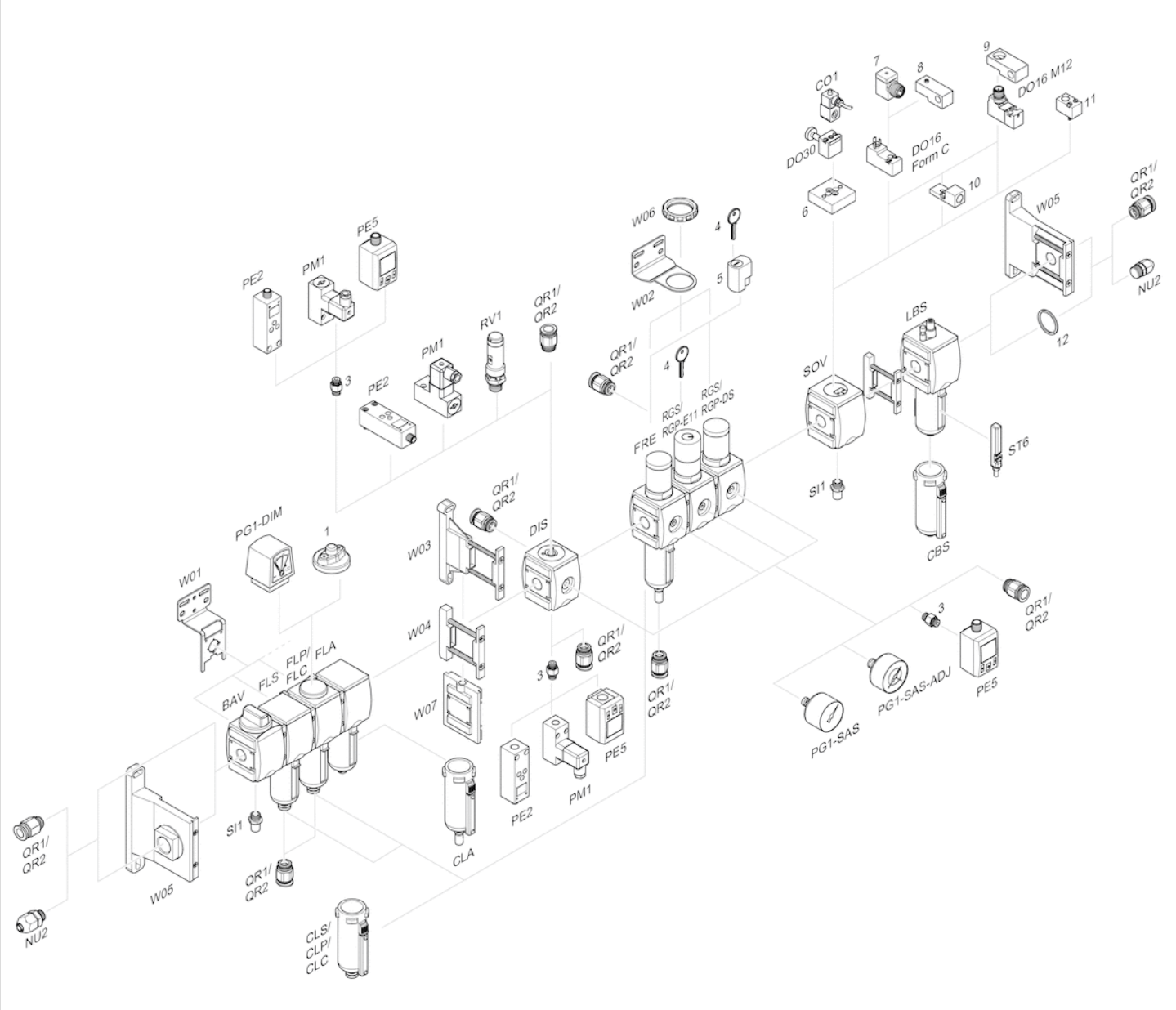
p1 = working pressure
p2 = secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
1) Switching point: adjustable filling time, fixed change-over pressure ≈ 0.5 x p1 (50%)
2) Throttle fully opened
* Adjustment screw rotations

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Accessories overview

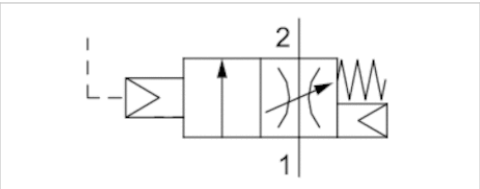


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Filling 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

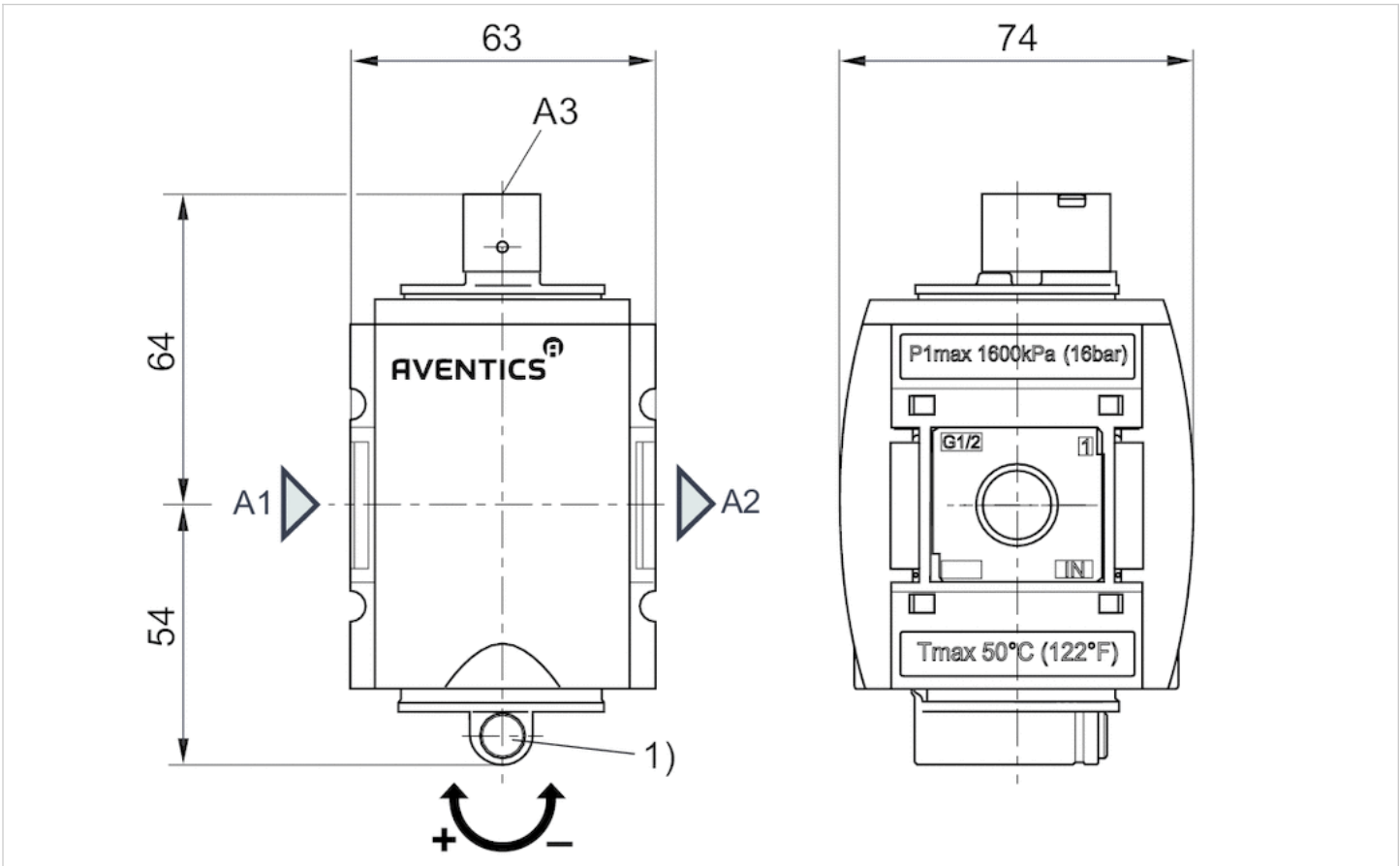
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for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

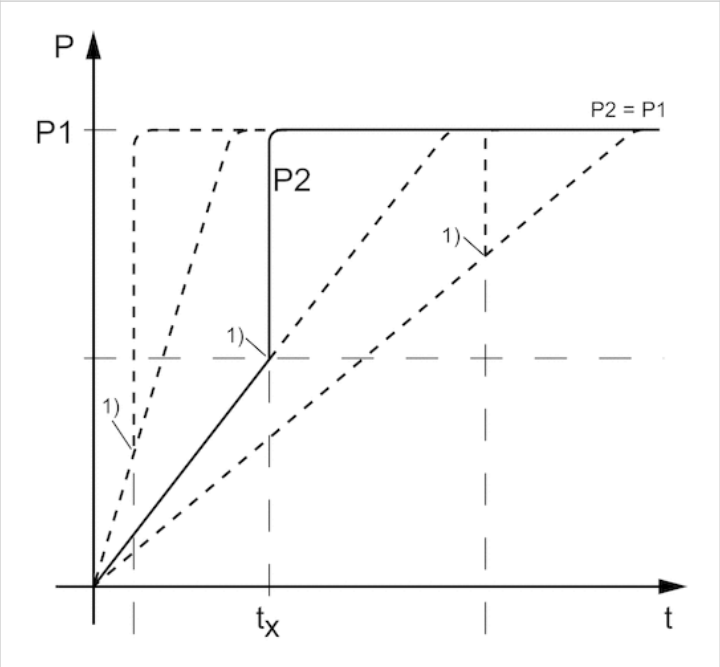
Dimensions



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

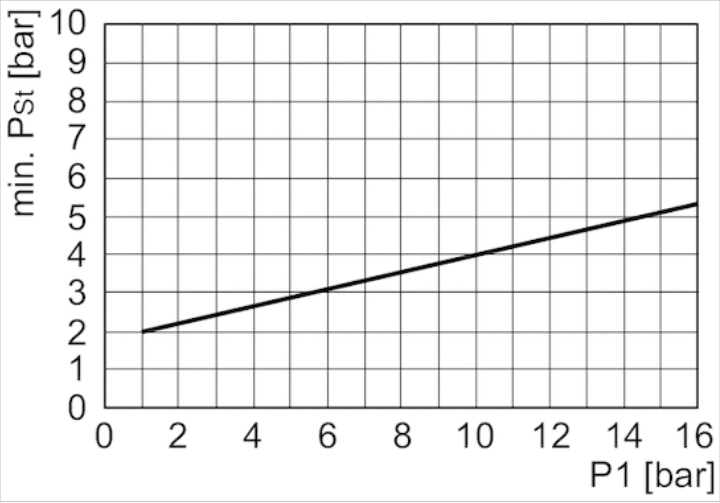
Diagrams

Secondary pressure while filling



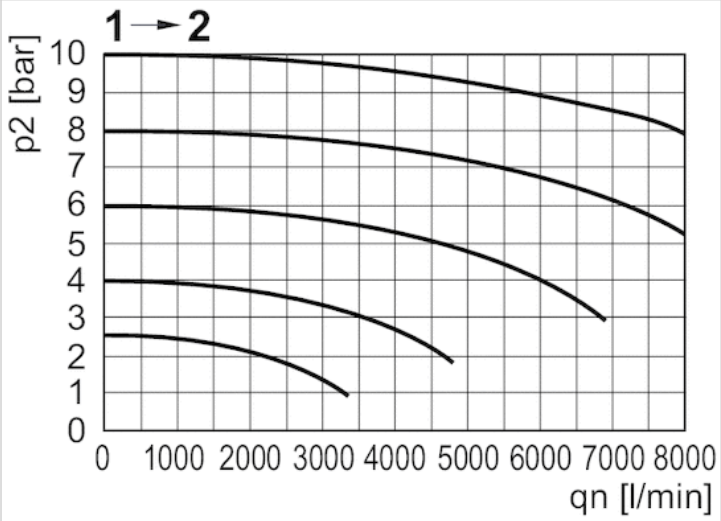
p1 = working pressure
p2 = output pressure
t = filling time
tx = switchover time
1) Pneumatically triggered switching point
Filling time adjustable via adjustment screw (throttle)

control pressure characteristic



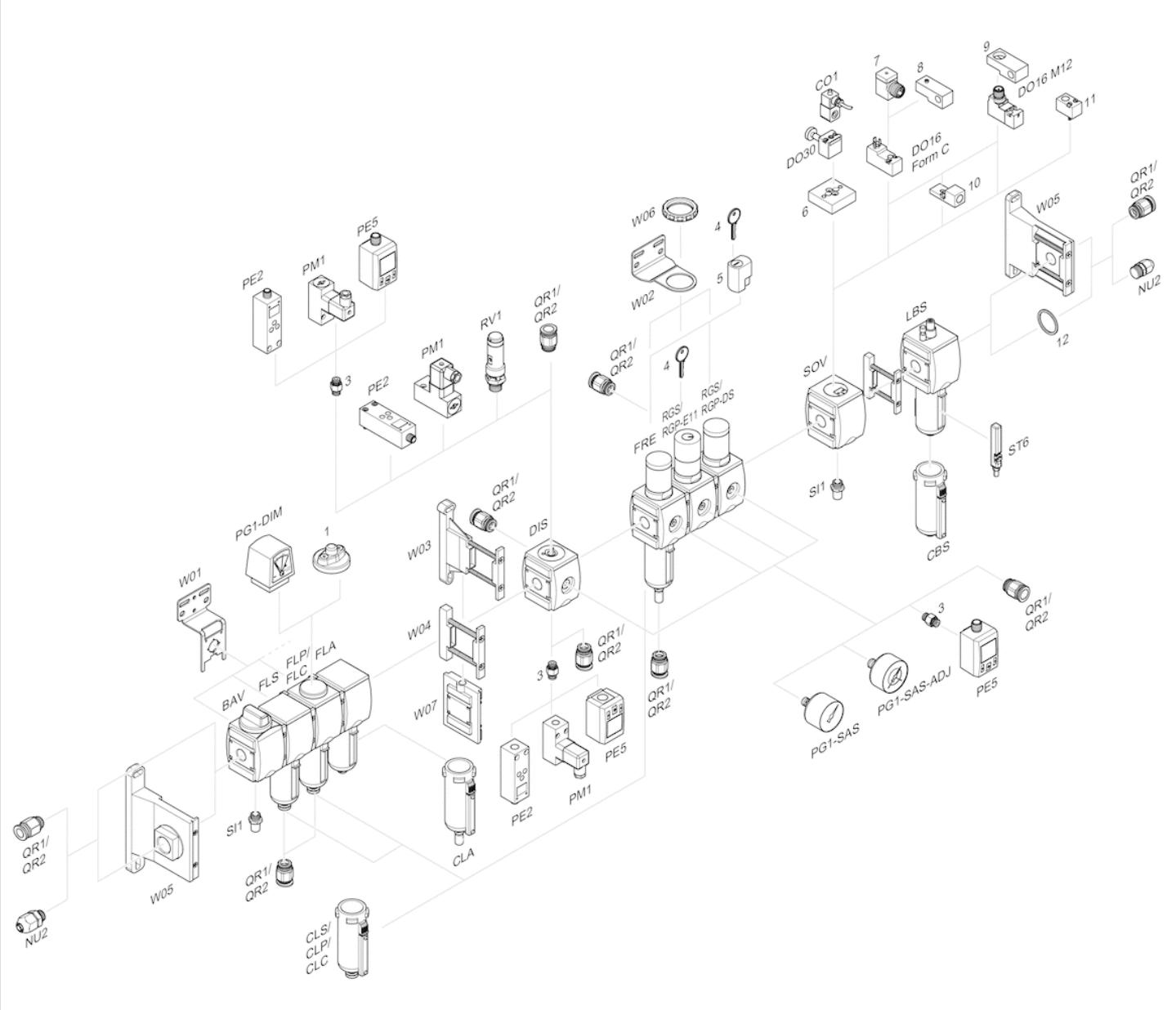
p1 = working pressure
PS = control pressure

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Accessories overview

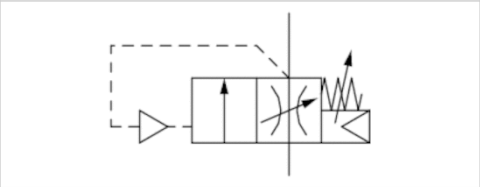


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Filling valve, mechanically adjustable, series AS3-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.

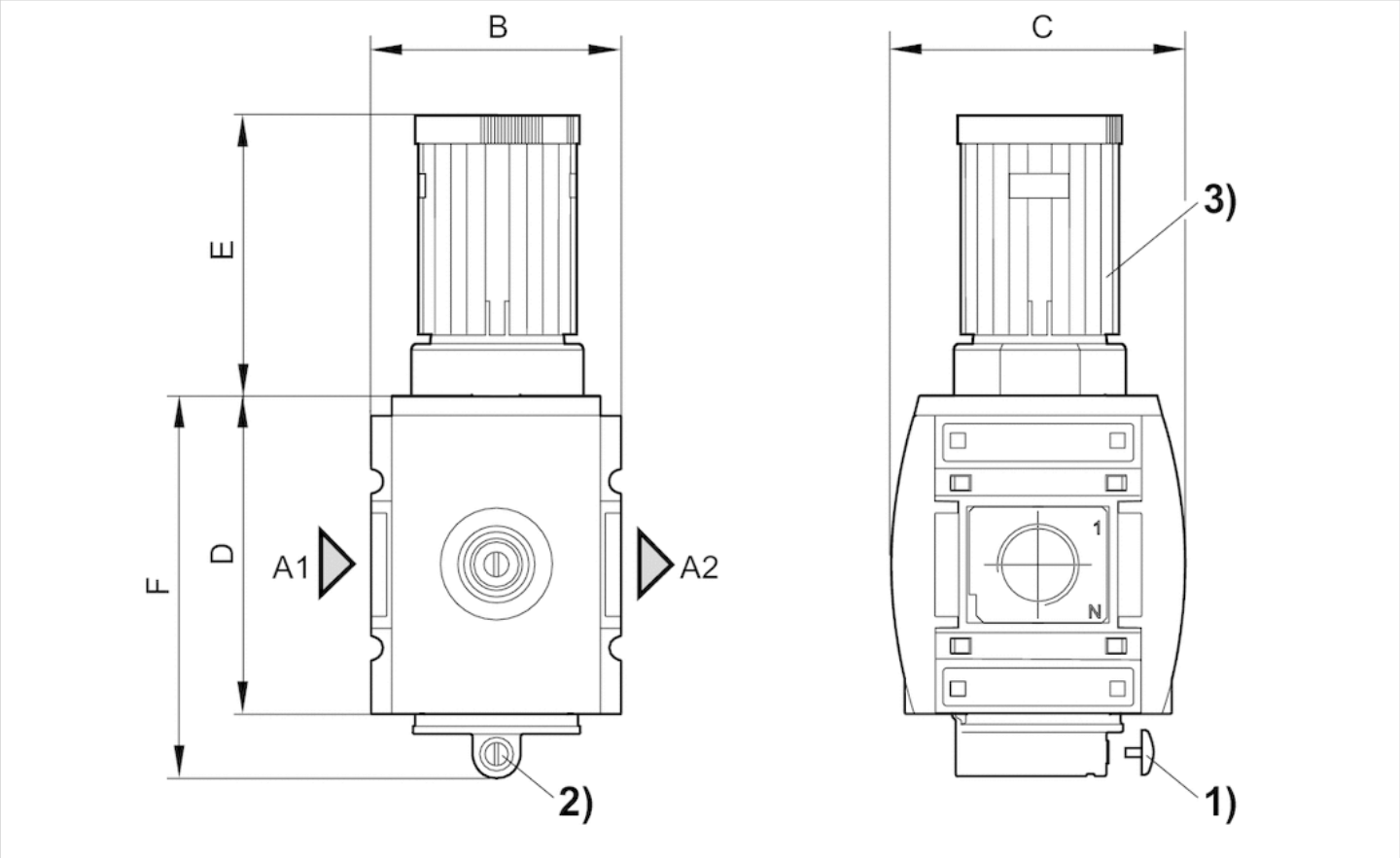
Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Dimensions

Dimensions



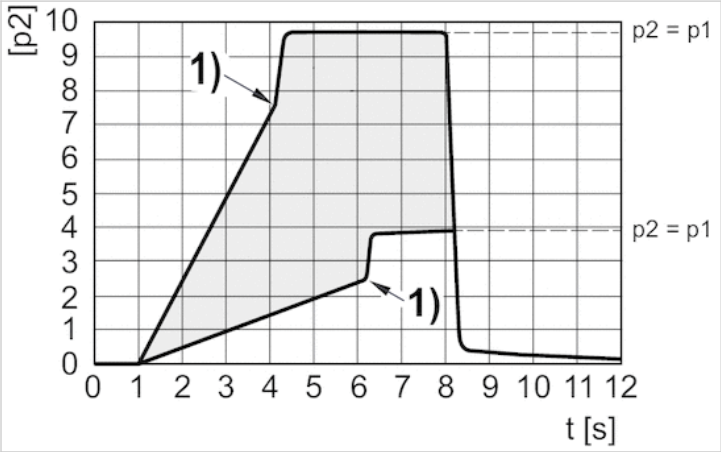
A1 = input
A2 = output
1) Adjustment screw lock
2) Adjustment screw for filling time
3) hand wheel for change-over pressure, lockable

Dimensions in mm

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

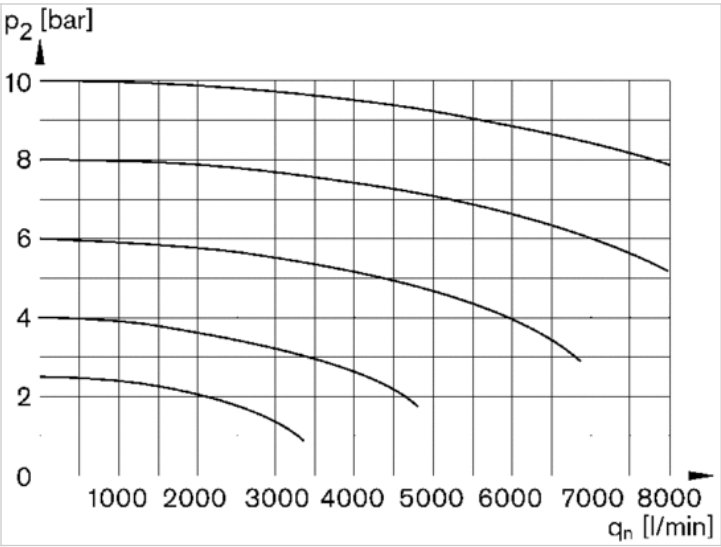
Diagrams

Secondary pressure while filling



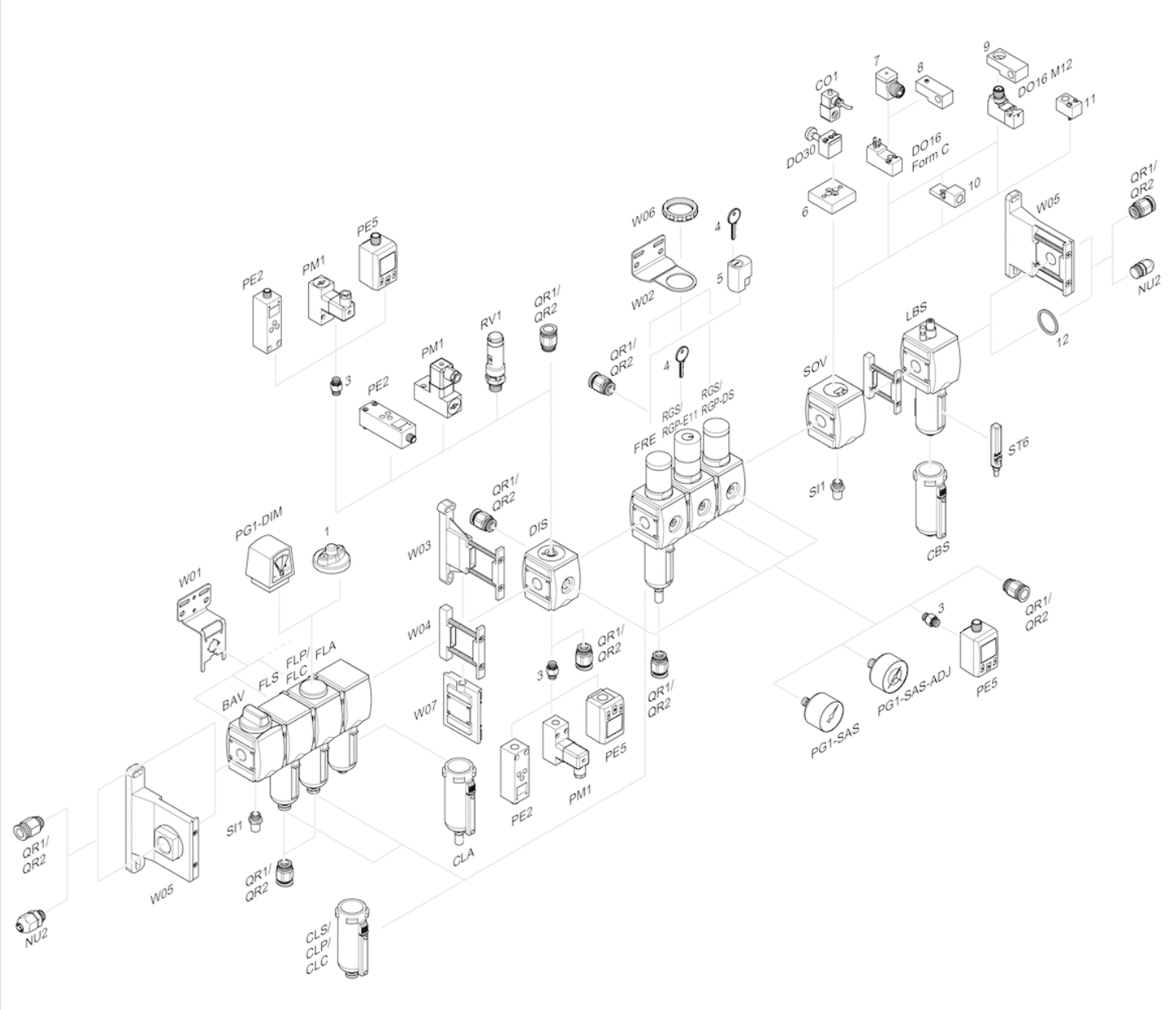
p1 = working pressure
p2 = secondary pressure
t = filling time, adjustable via adjustment screw (throttle)
Change-over pressure individually adjustable via handwheel
1) Switching point: adjustable filling time and change-over pressure

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Accessories overview

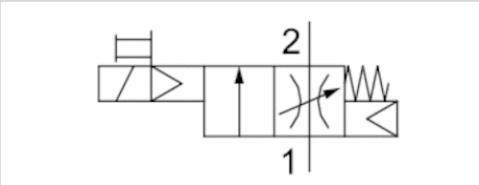


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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

Technical information

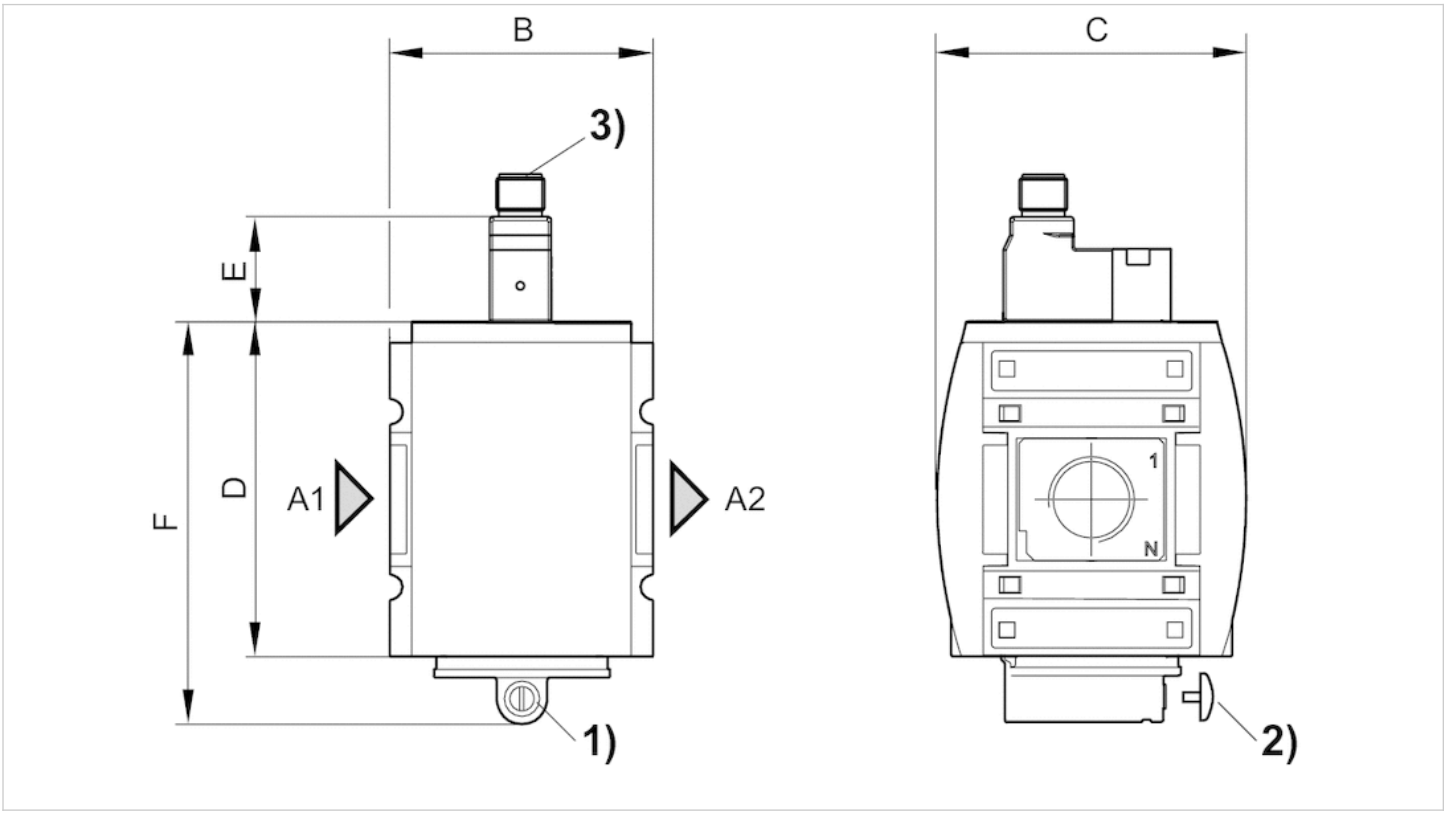
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The filling valve builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a recommissioning after a mains pressure failure or avoids emergency OFF switching. This allows dangerous abrupt cylinder motions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



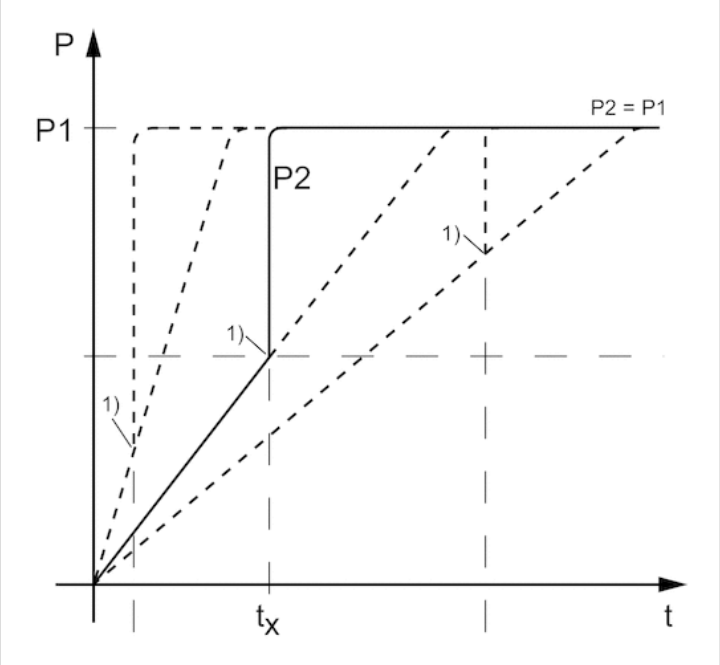
A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock
3) For valve plug connectors M12x1

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

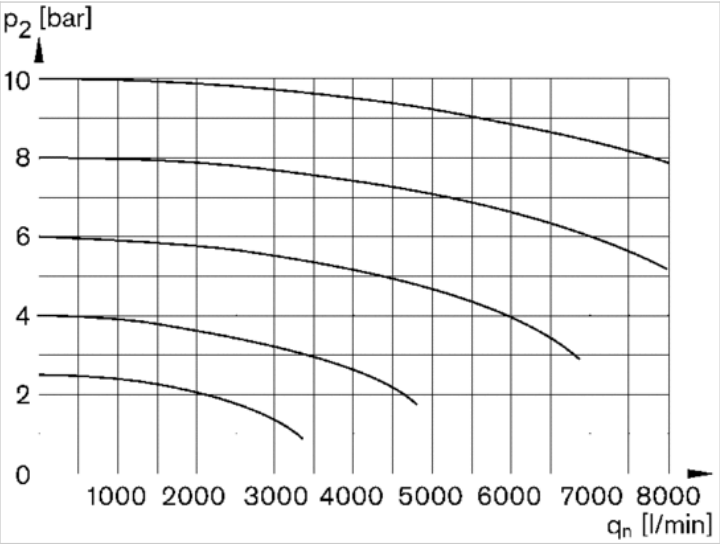
Diagrams

Secondary pressure while filling



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

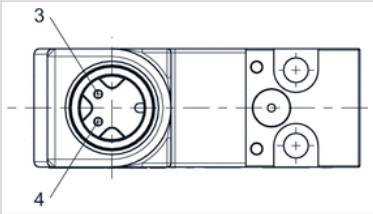
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

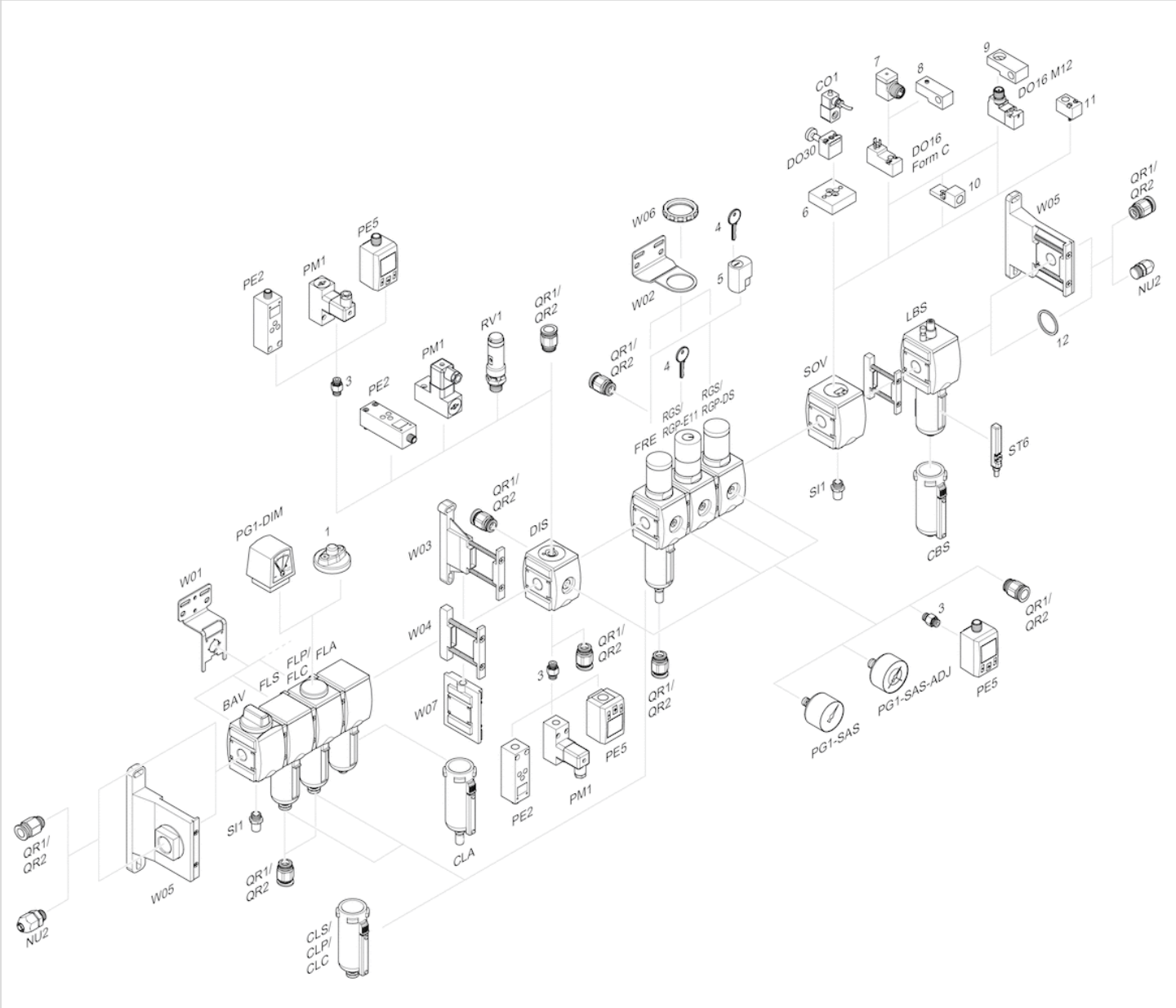
Pin assignments

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

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 Qn with secondary pressure p2 = 6 bar at Δp = 1 bar, MO = Manual override

Technical information

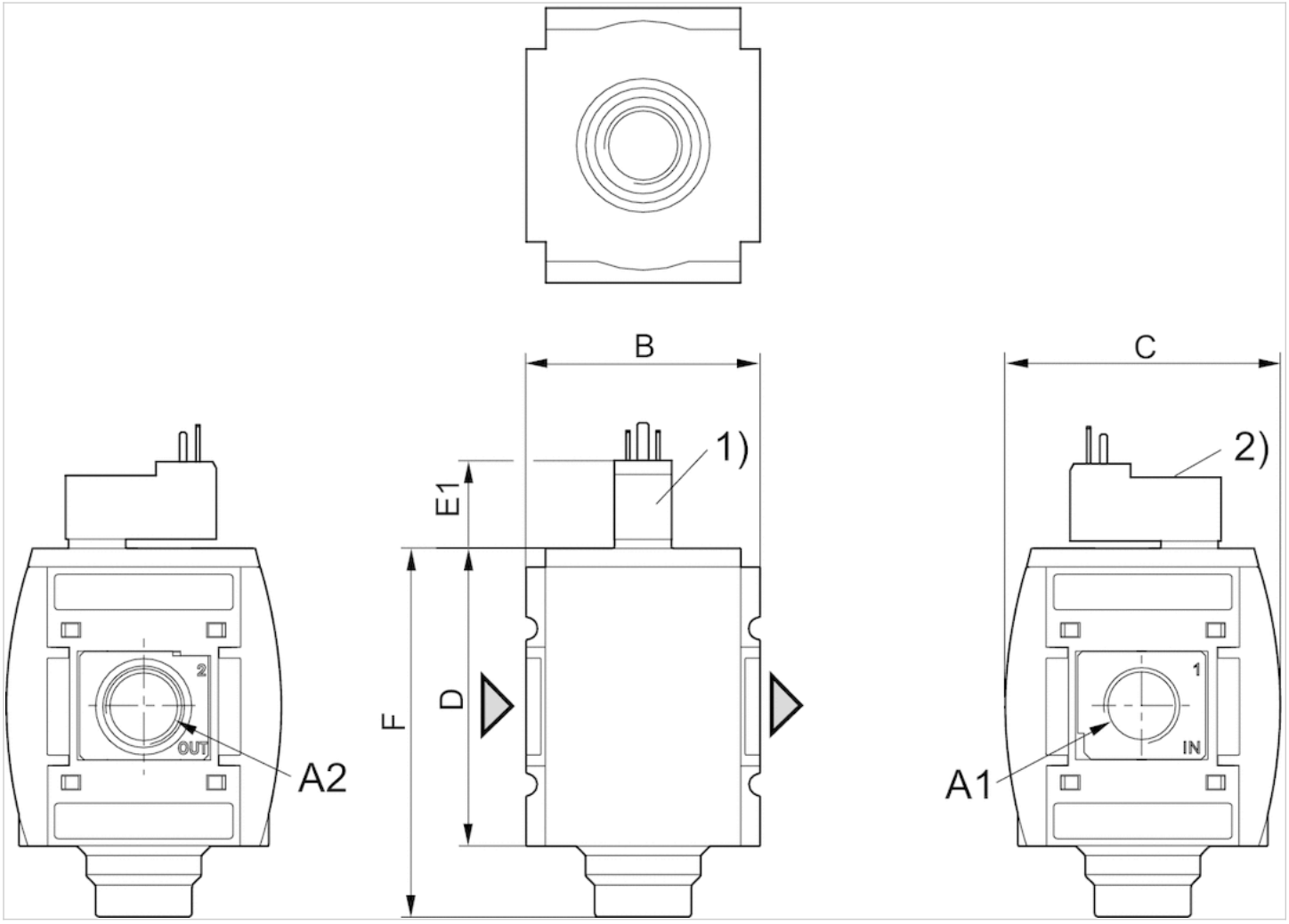
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for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



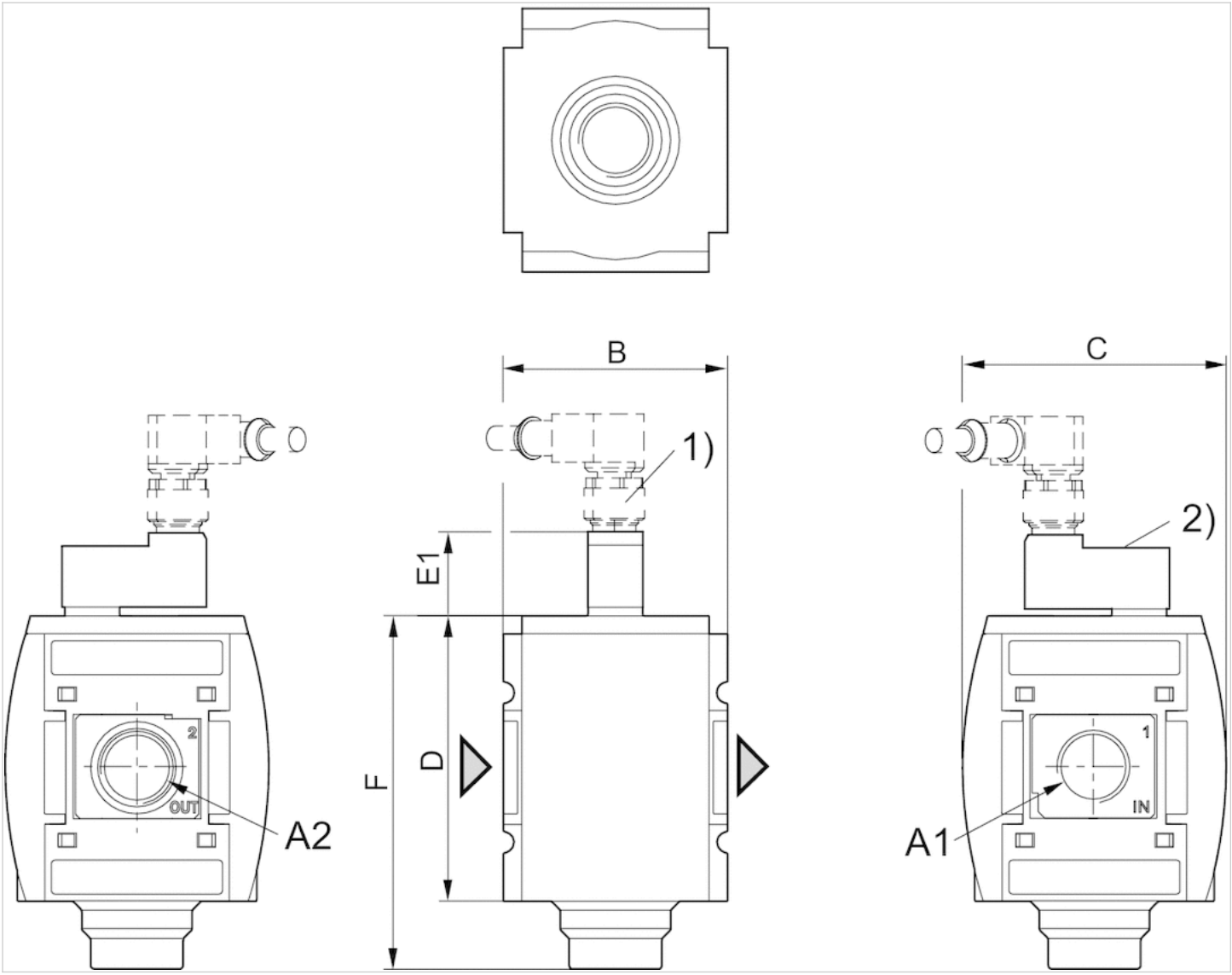
A1 = input
A2 = output
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

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



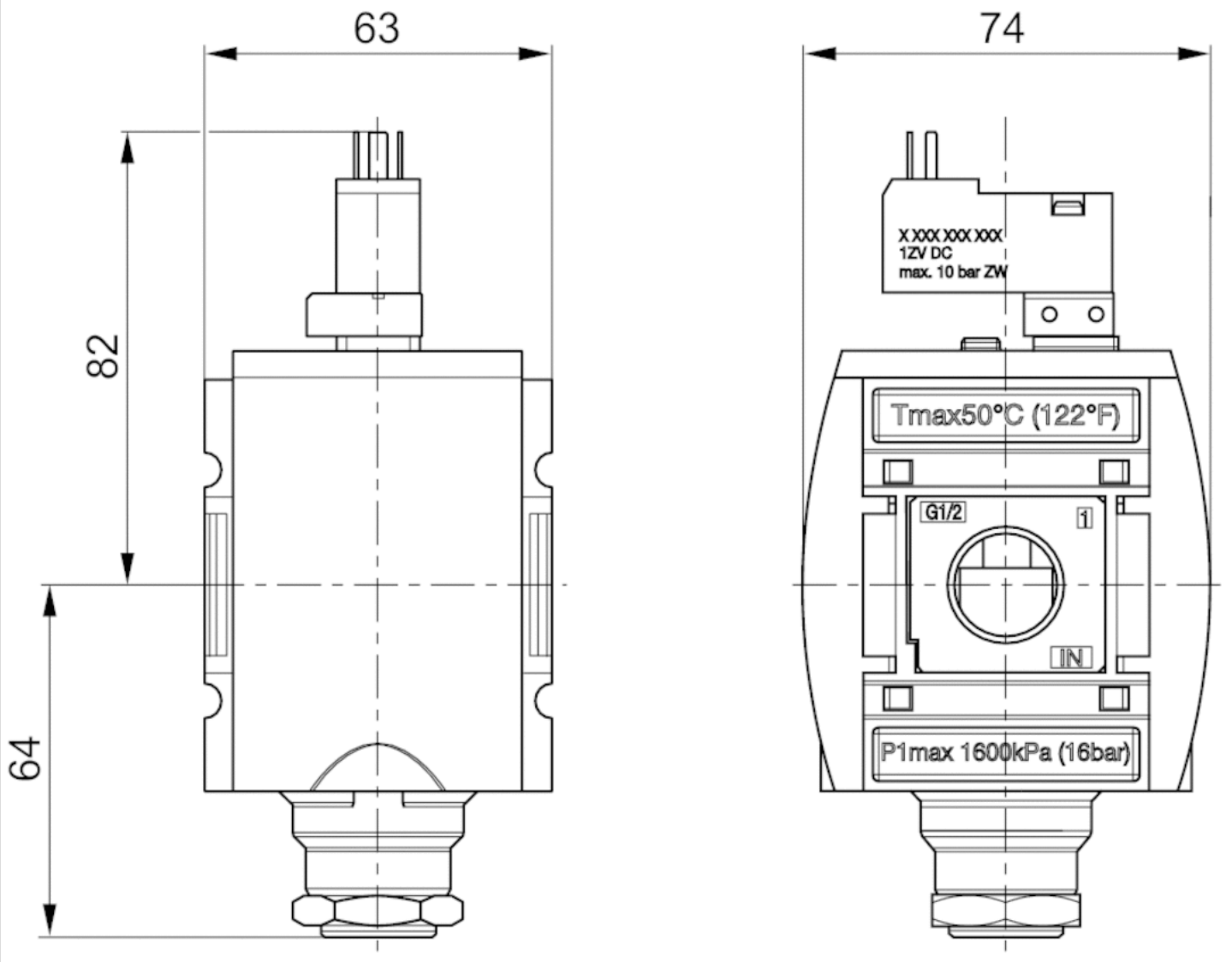
A1 = input
A2 = output
1) plug M12
2) Manual override

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

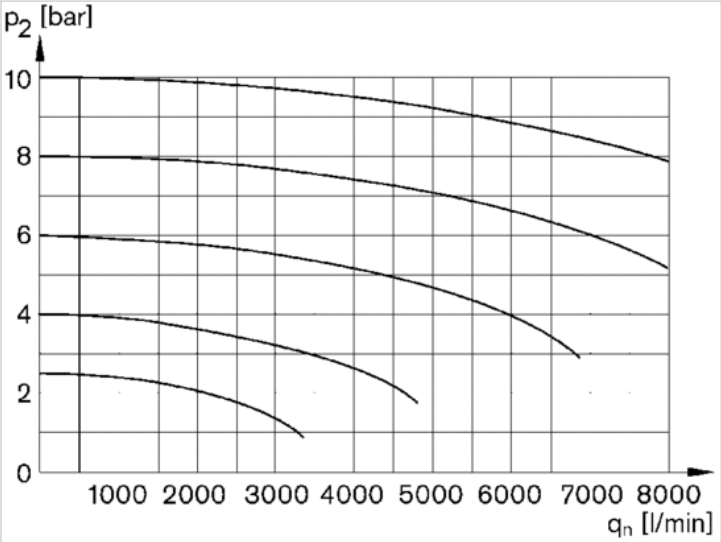
Dimensions

Dimensions, Fig. 3



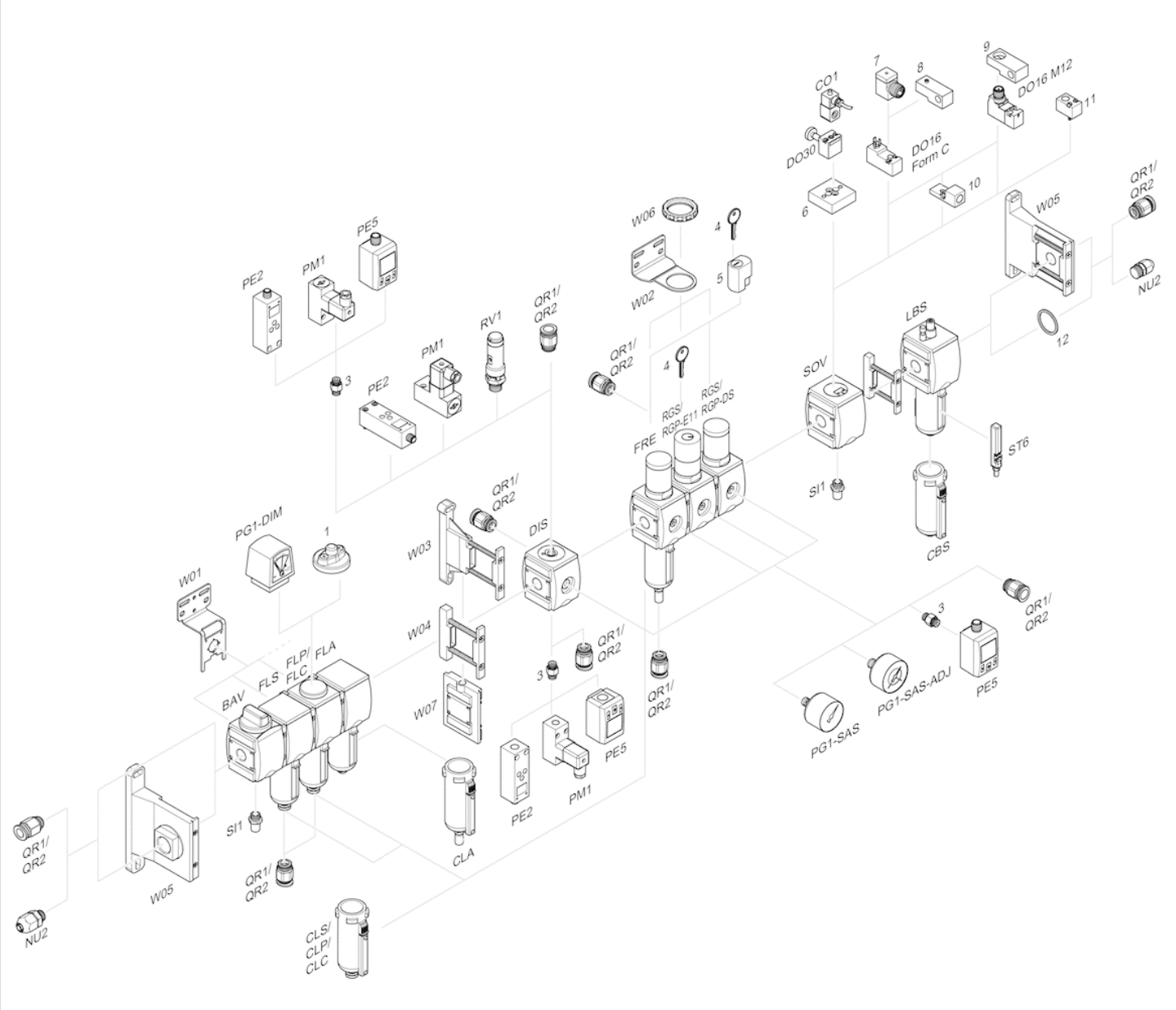
Diagrams

Flow rate characteristic



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

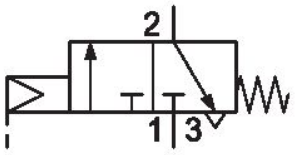
3/2-directional valve, electrically operated, Series AS3-SOV

R412007258

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

Compressed air connection
G 3/8

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, with CNOMO subbase

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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Protection class with connection
IP65

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.
R412007258

Technical information

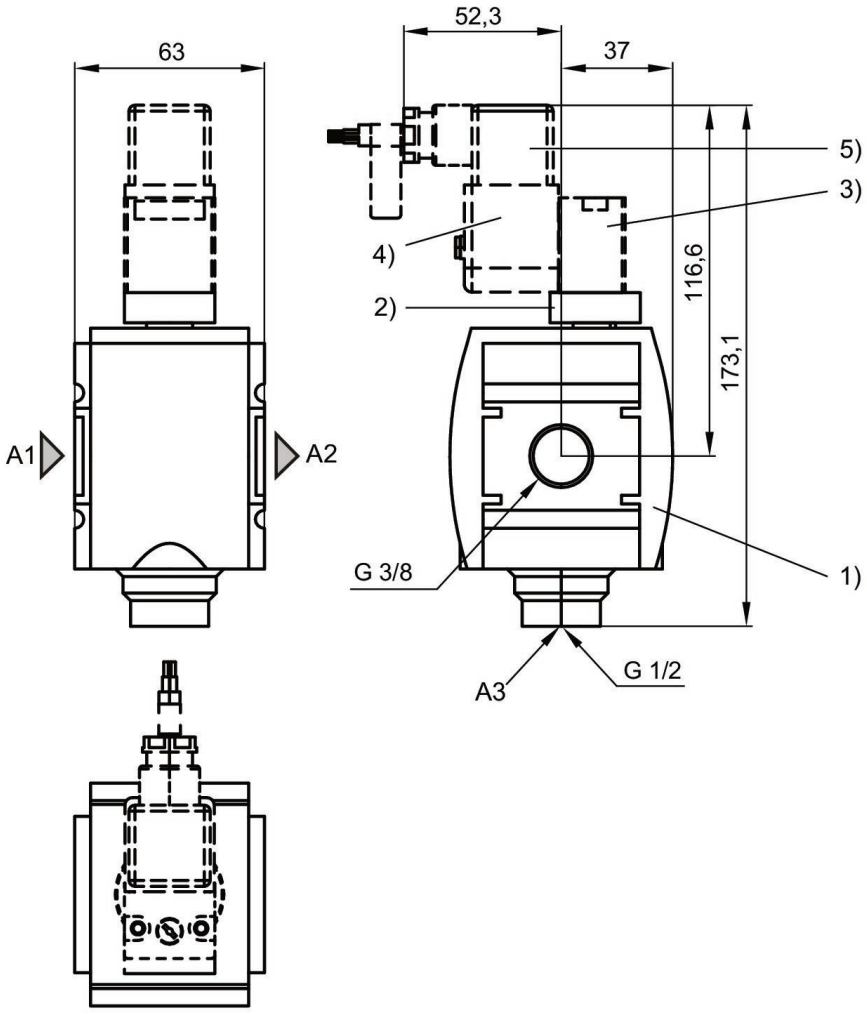
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Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

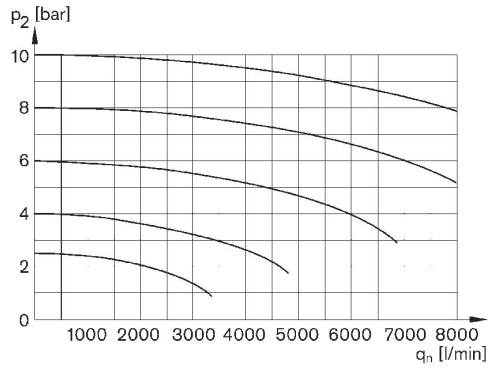
2 x O-ring Ø3x1,5 (included)

Dimensions in mm



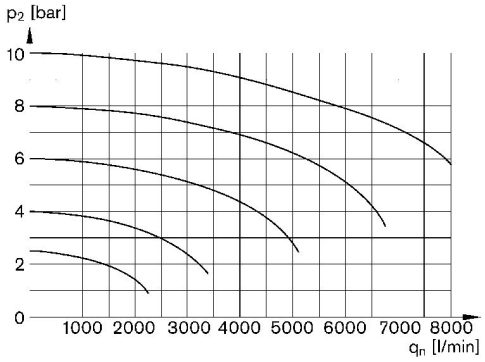
A1 = input A2 = output
A3 = ventilation port
1) Shut-off valve
2) Transition plate
3) Pilot valve
4) Coil
5) Valve plug connector
See accessories for pilot valve and coil

Flow rate characteristic, p2 = 0,05 - 7 bar



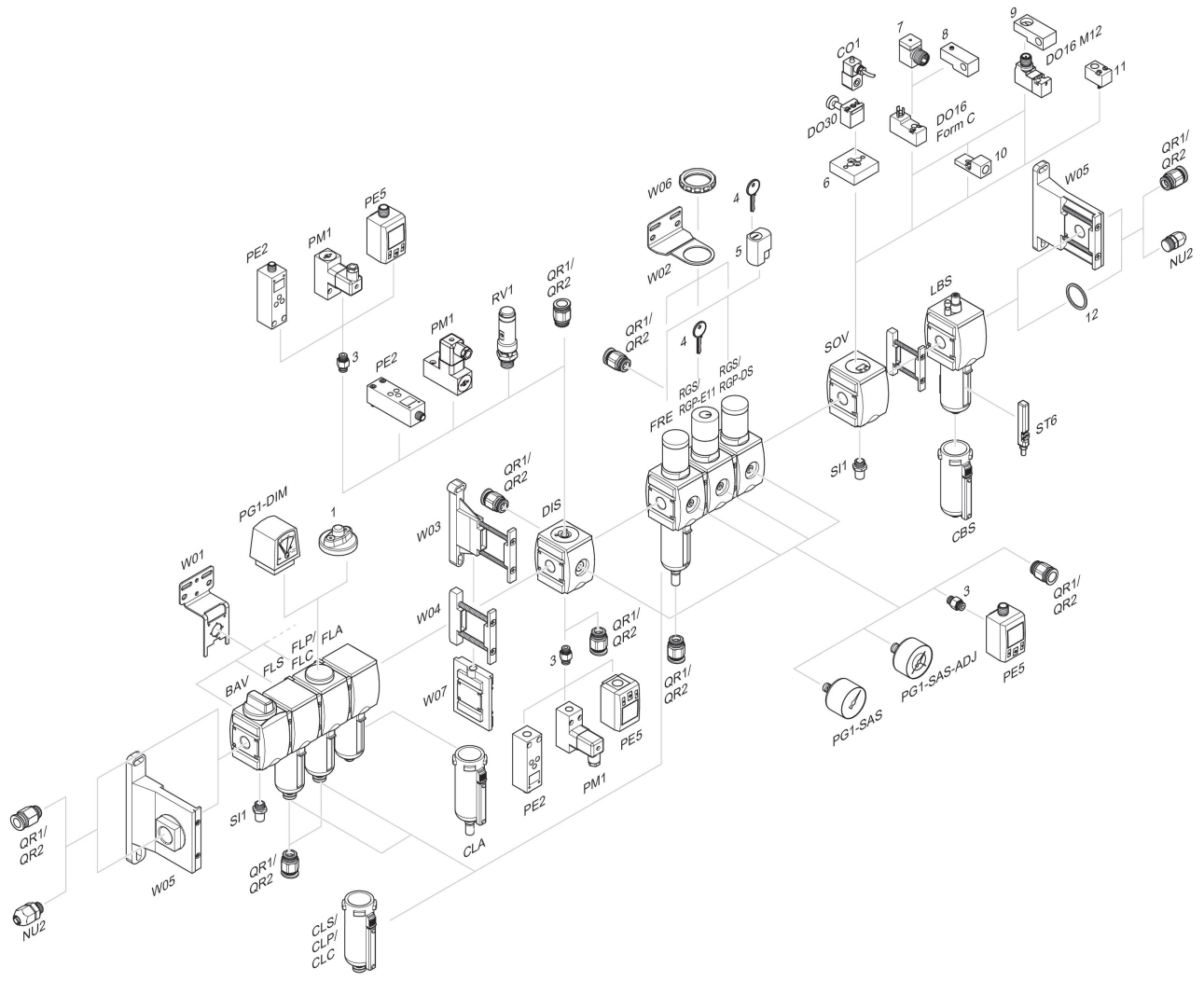
p2 = Secondary pressure
qn = Nominal flow

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

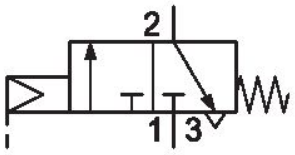
3/2-directional valve, electrically operated, Series AS3-SOV

R412007259

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 1/2

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, with CNOMO subbase

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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Protection class with connection
IP65

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.
R412007259

Technical information

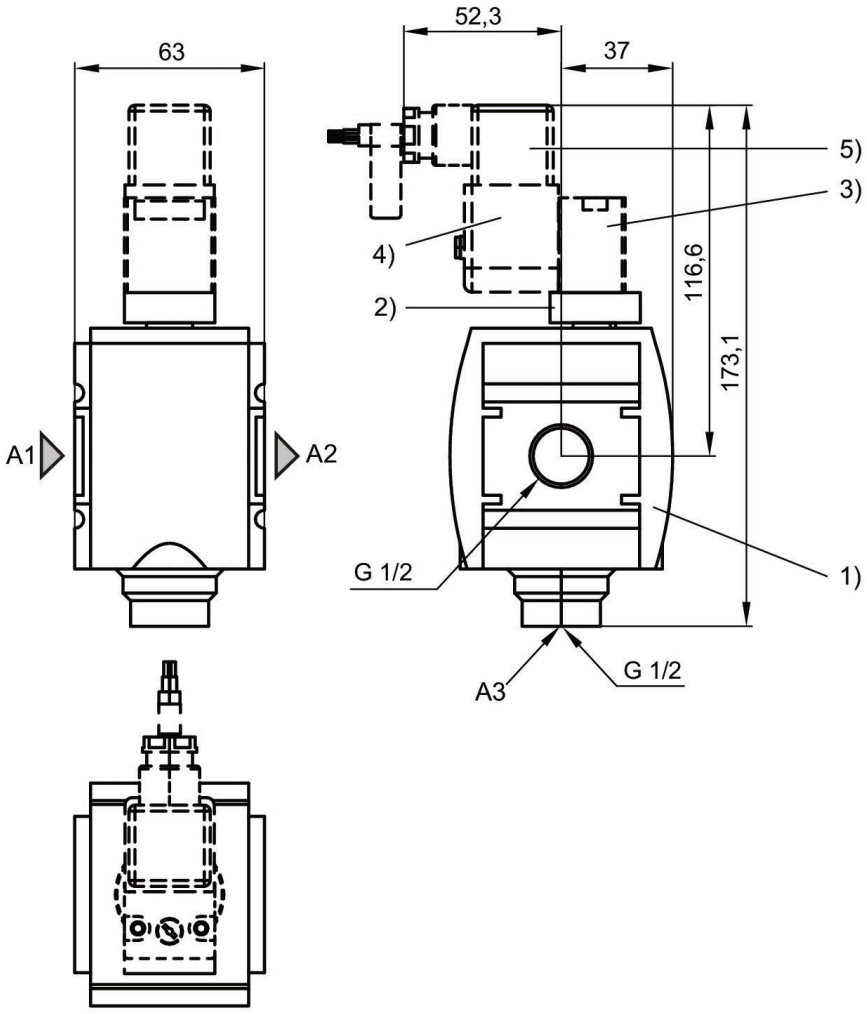
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Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

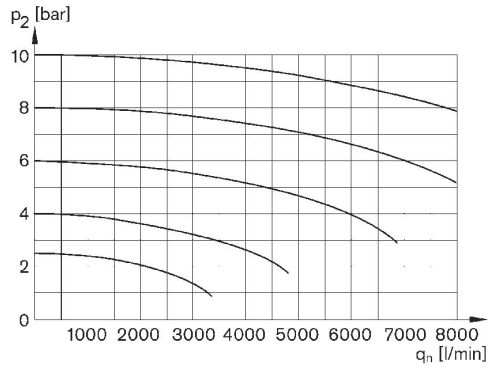
2 x O-ring Ø3x1,5 (included)

Dimensions in mm



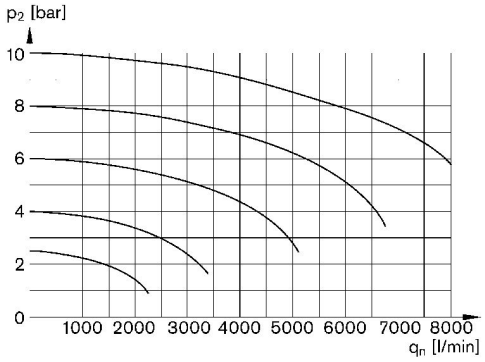
A1 = input A2 = output
A3 = ventilation port
1) Shut-off valve
2) Transition plate
3) Pilot valve
4) Coil
5) Valve plug connector
See accessories for pilot valve and coil

Flow rate characteristic, p2 = 0,05 - 7 bar



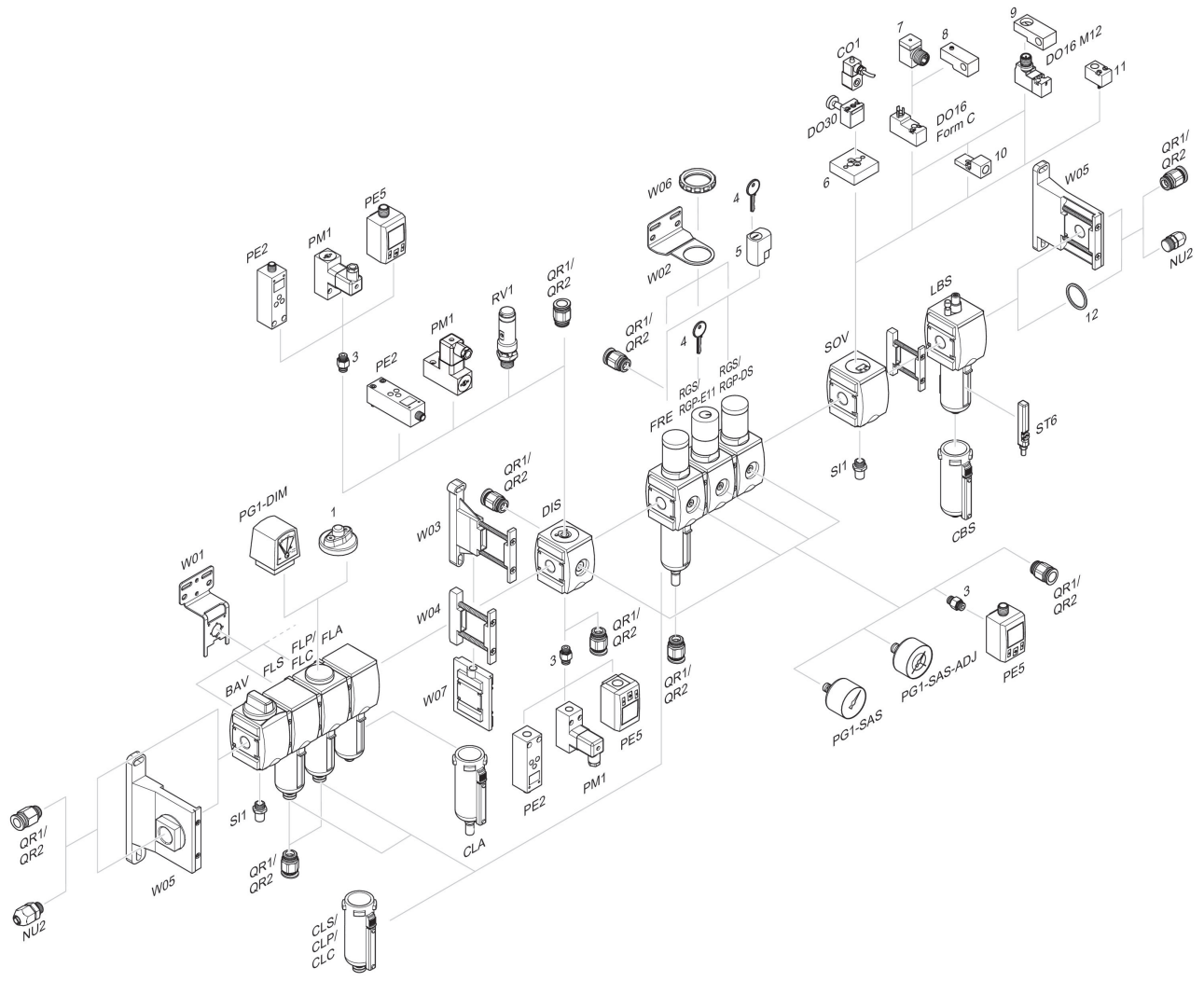
p2 = Secondary pressure
qn = Nominal flow

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

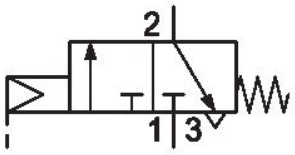
3/2-directional valve, electrically operated, Series AS3-SOV

R412007264

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 3/8

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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Protection class with connection
IP65

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.
R412007264

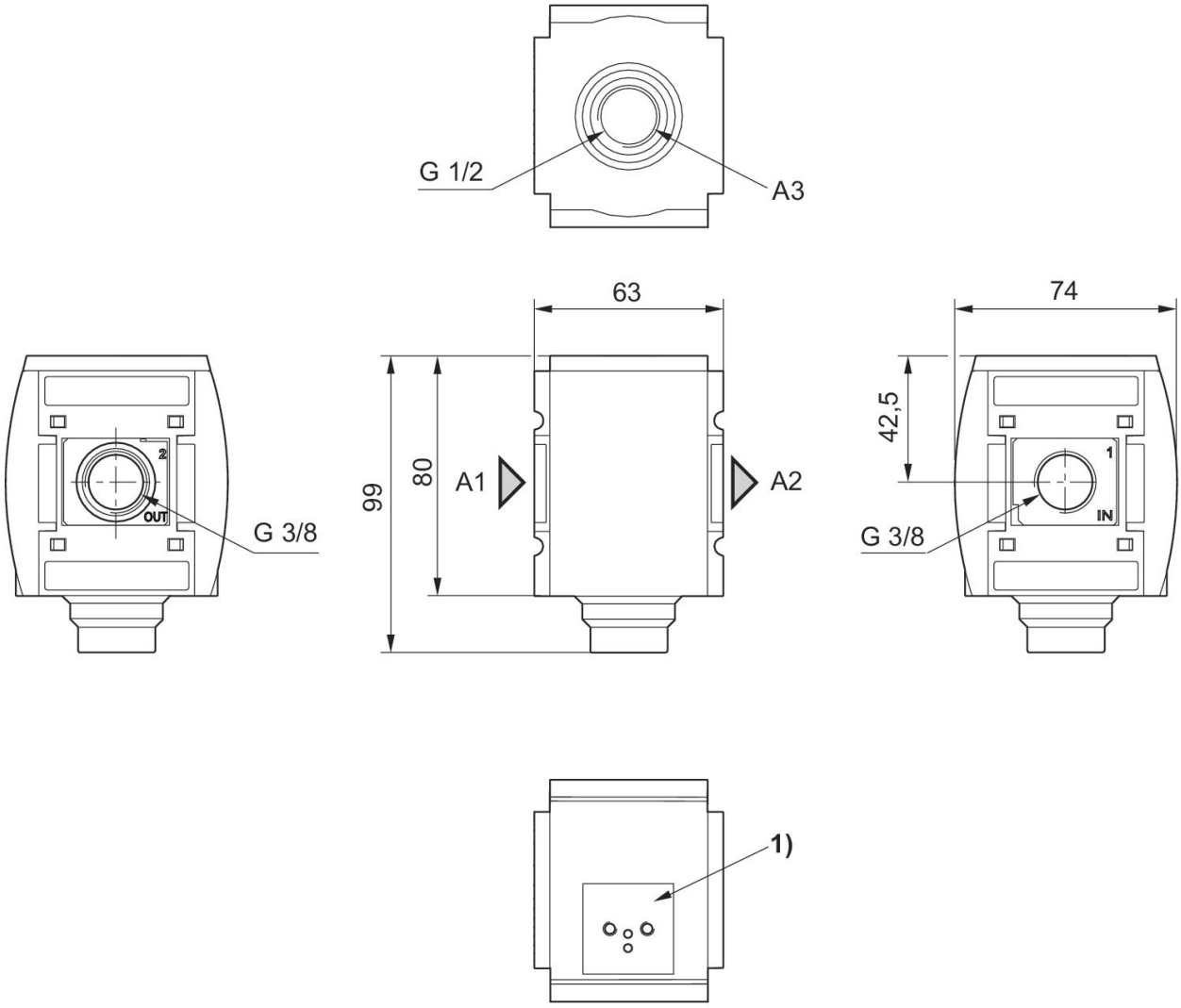
Technical information

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.

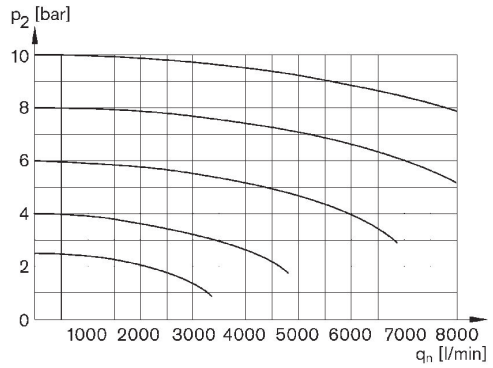
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



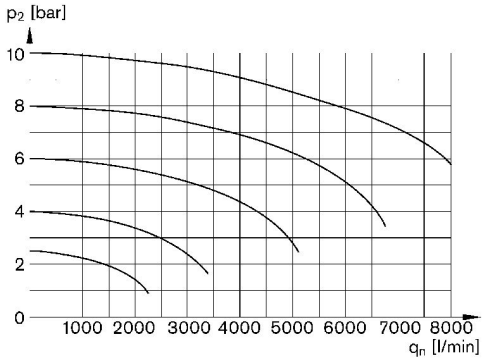
A1 = input
A2 = output
A3 = ventilation port
1) For pilot valve series DO16

Flow rate characteristic, p2 = 0,05 - 7 bar



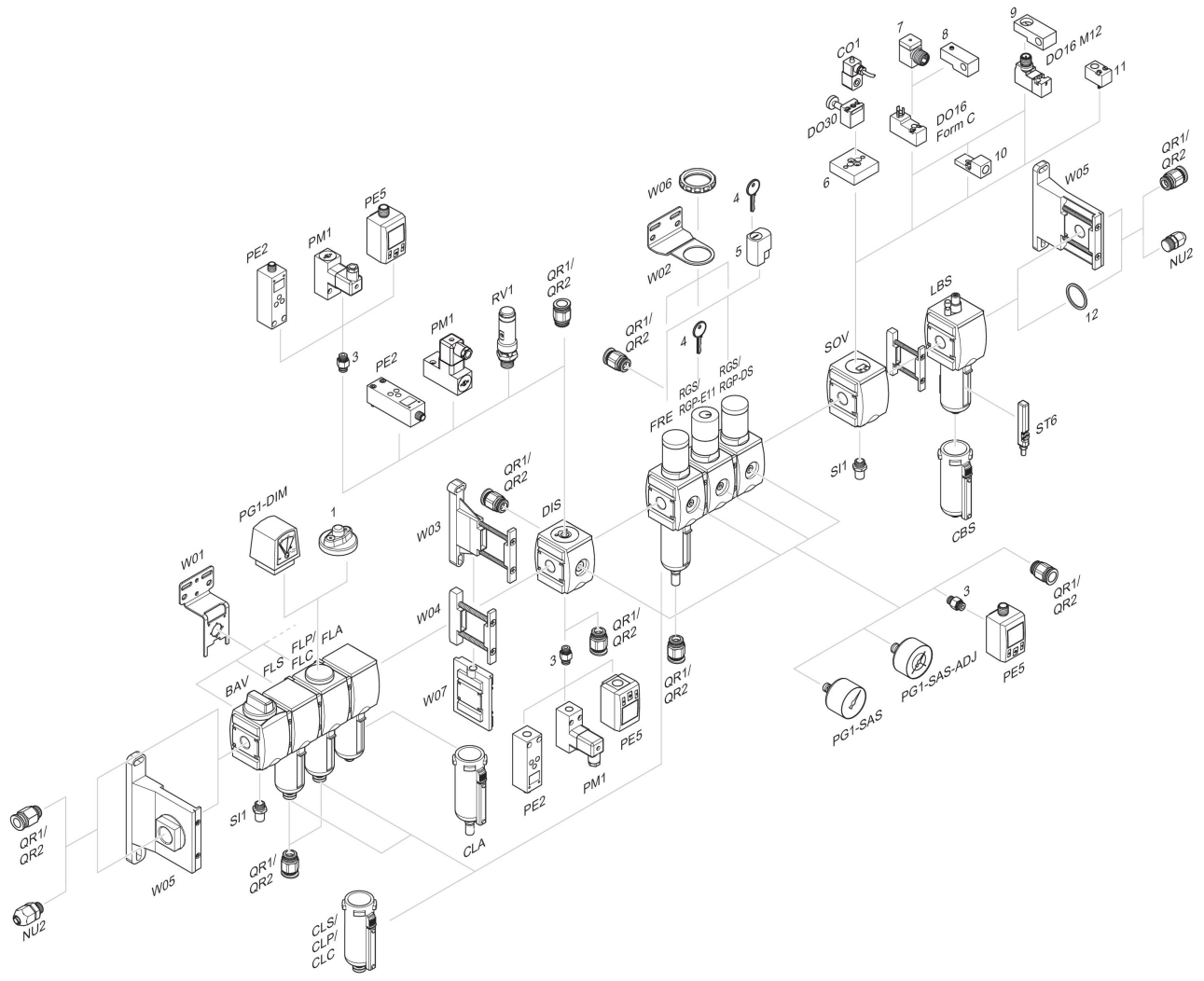
p2 = Secondary pressure
qn = Nominal flow

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

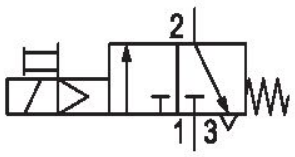
3/2-directional valve, electrically operated, Series AS3-SOV

R412007265

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 3/8

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, 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

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

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.
R412007265

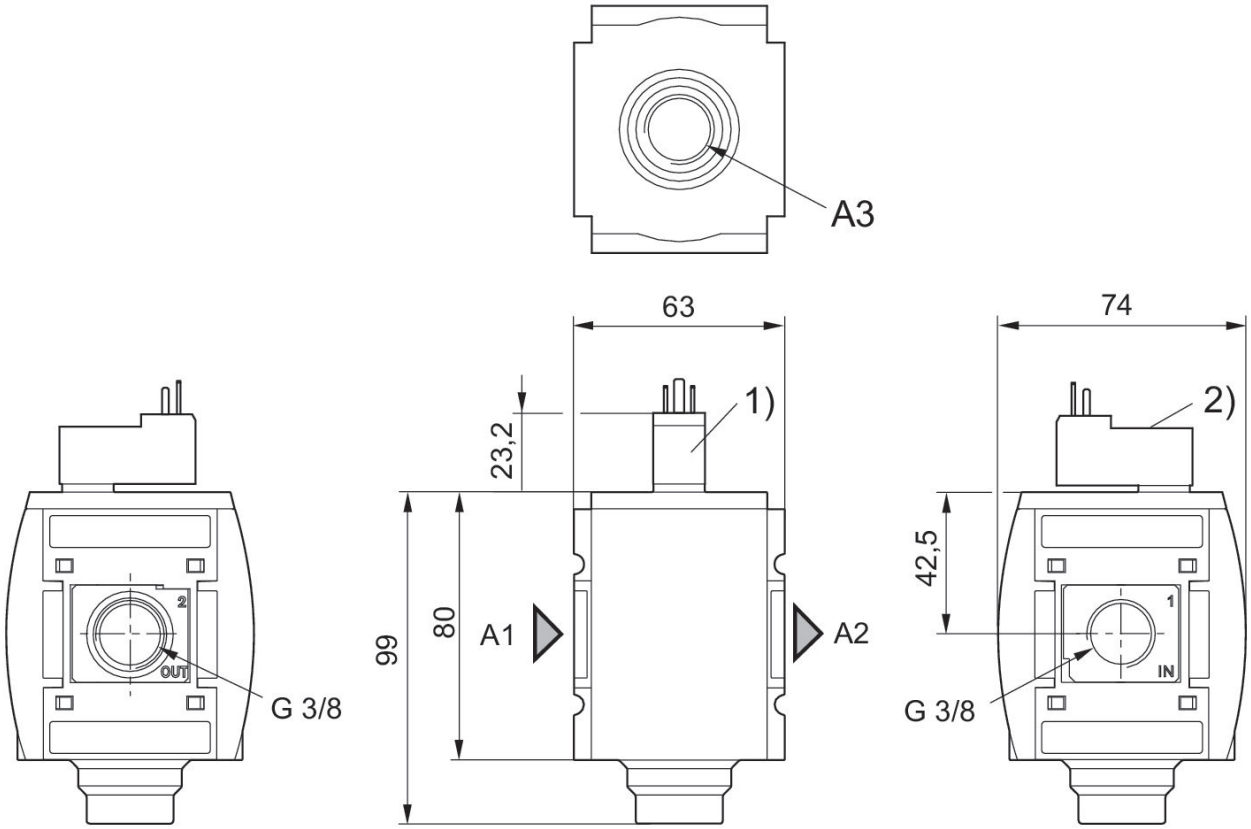
Technical information

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.

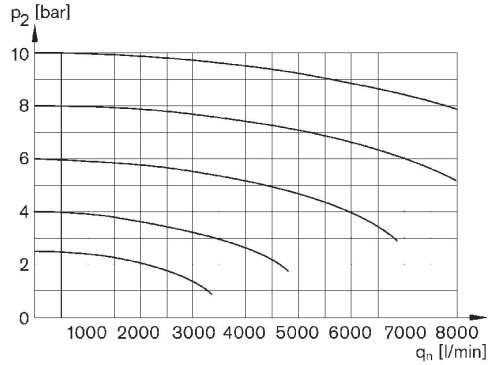
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



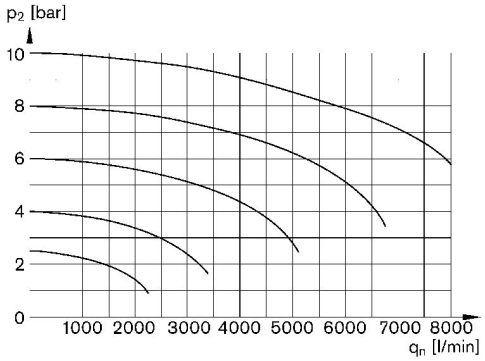
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



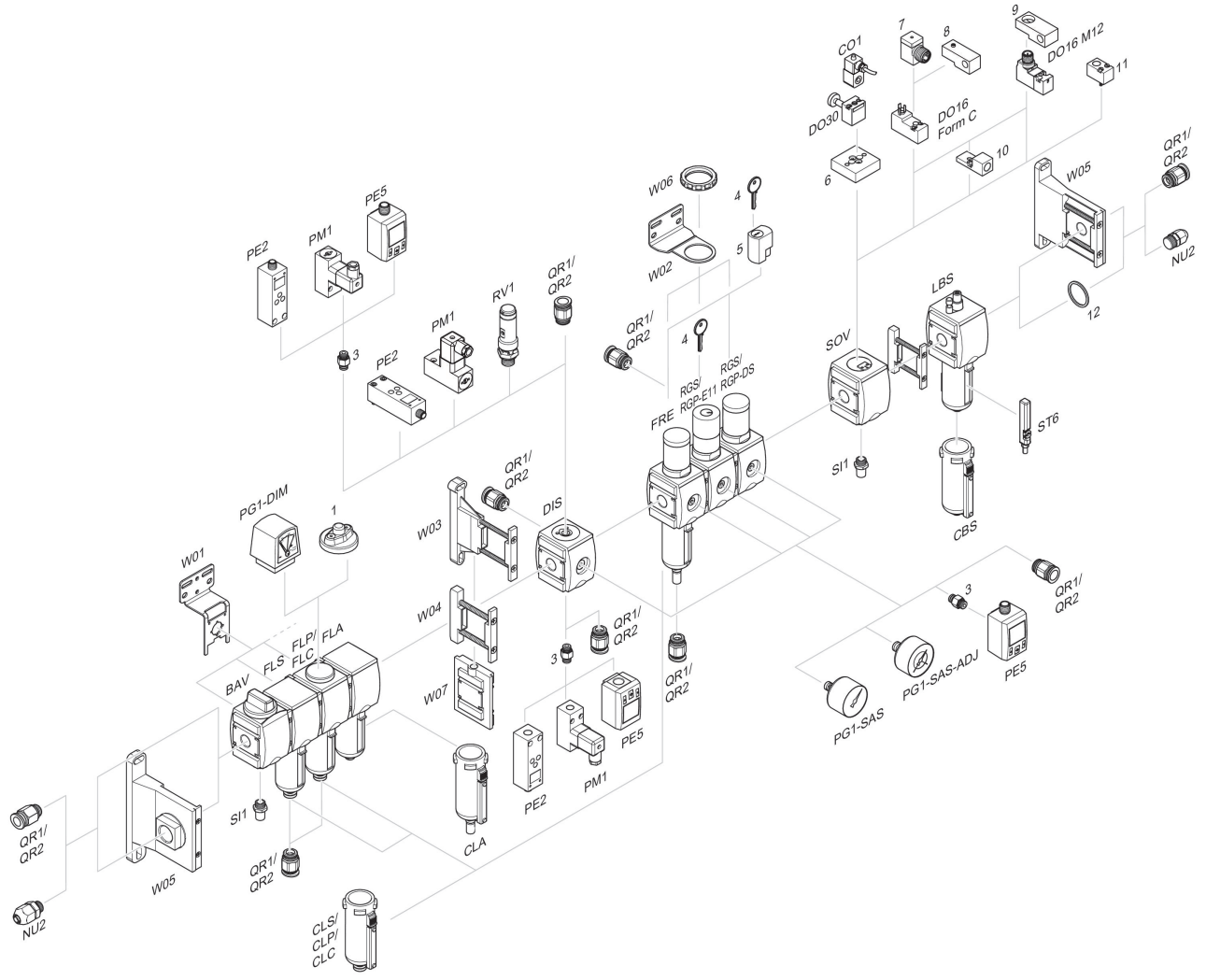
p2 = Secondary pressure
qn = Nominal flow

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

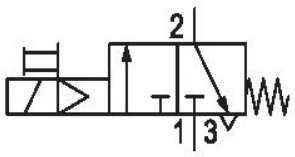
3/2-directional valve, electrically operated, Series AS3-SOV

R412007266

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

Compressed air connection
G 3/8

Working pressure min.
2.5 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
110 V

Operational voltage AC at 60 Hz
110 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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Holding power AC 50 Hz
1.6 VA

Holding power AC 60 Hz
1.4 VA

Switch-on power AC 50 Hz
2.2 VA

Switch-on power AC 60 Hz
1.6 VA

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

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.
R412007266

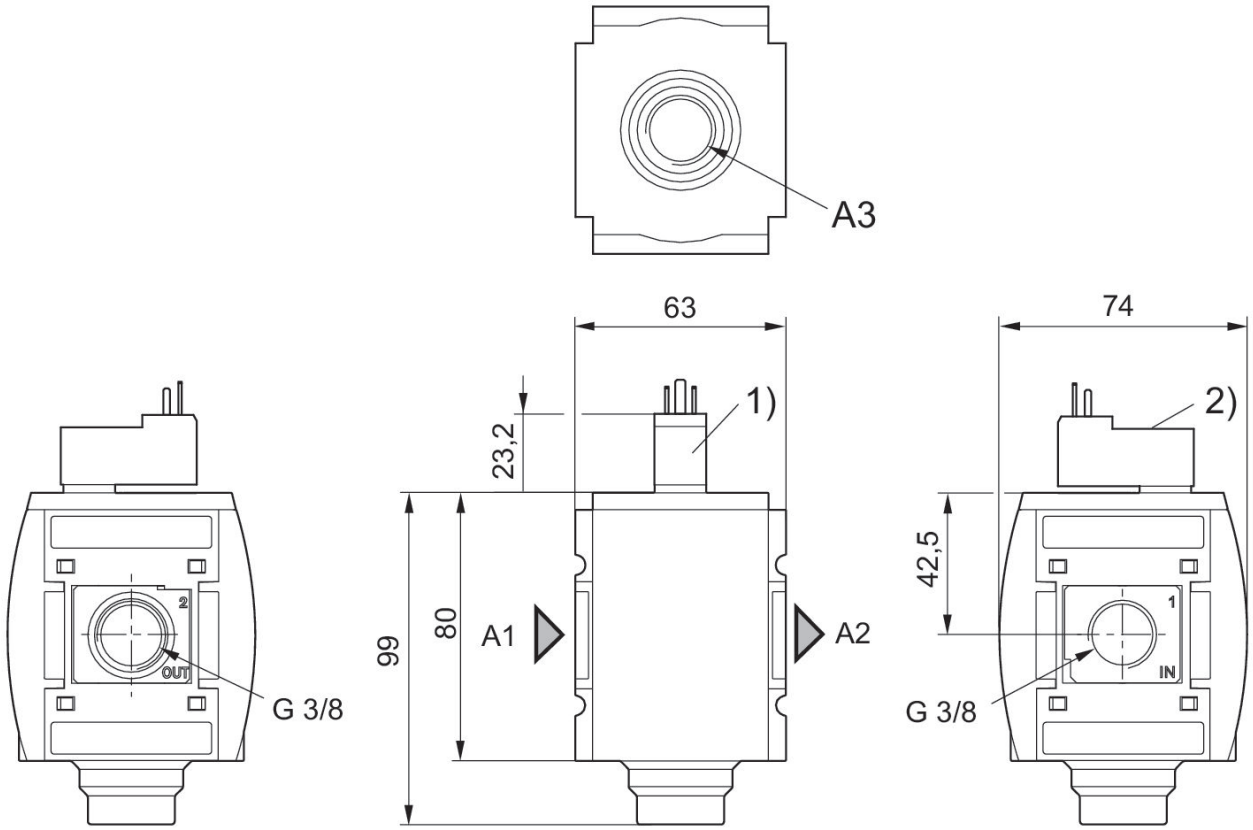
Technical information

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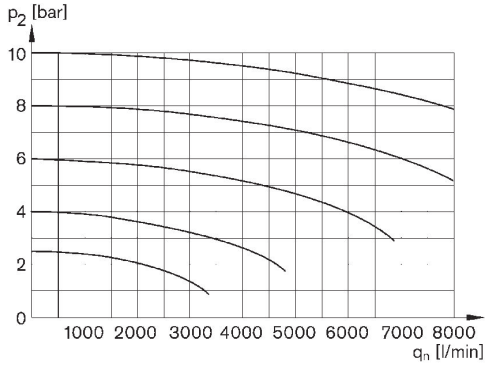
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



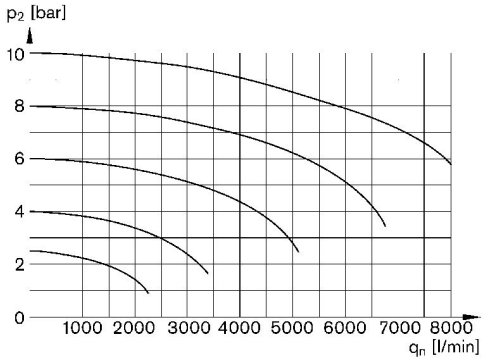
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



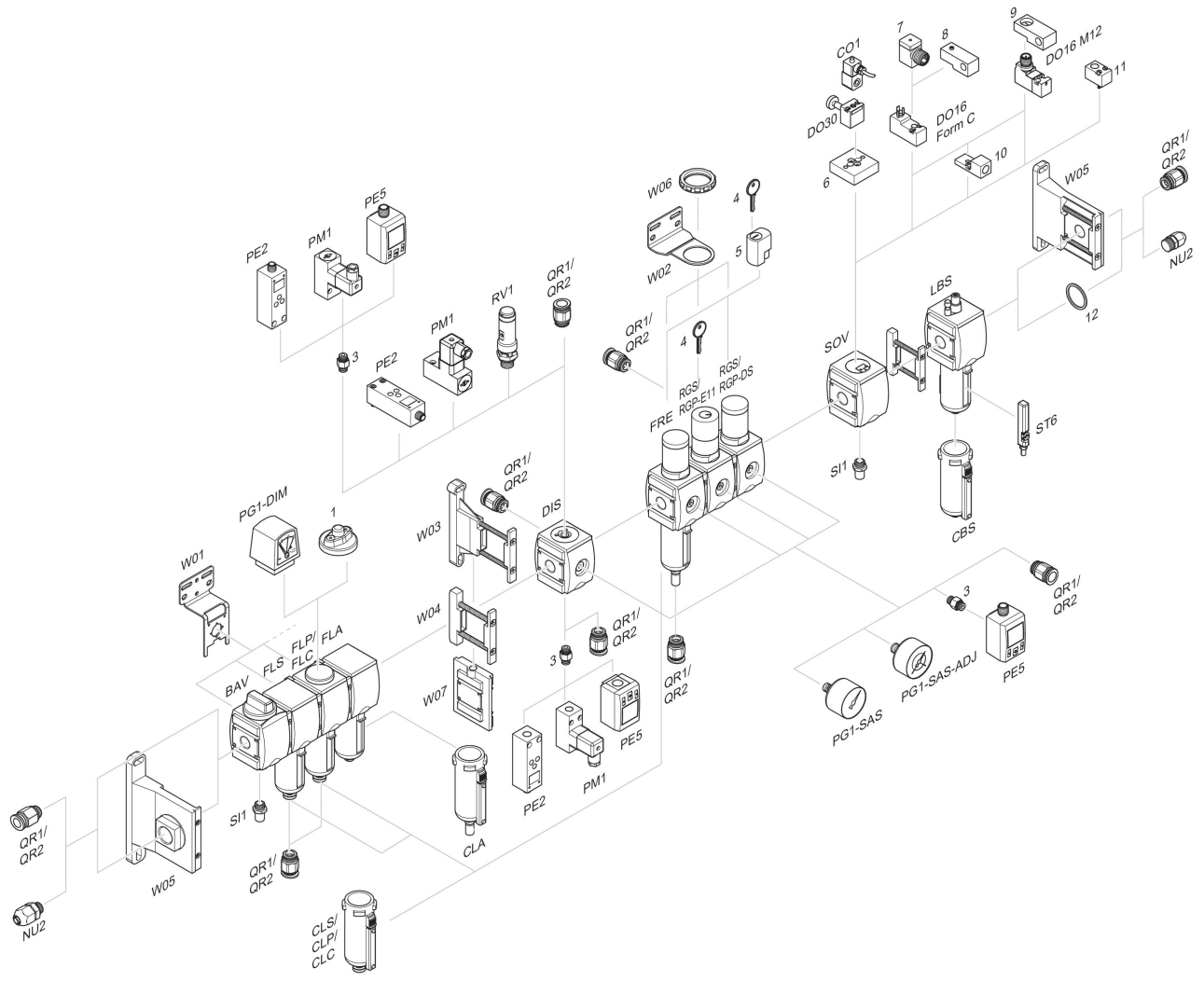
p2 = Secondary pressure
qn = Nominal flow

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

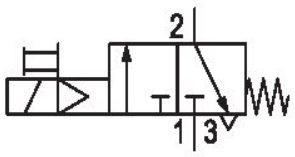
3/2-directional valve, electrically operated, Series AS3-SOV

R412007267

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 3/8

Working pressure min.
2.5 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
220 V

Operational voltage AC at 60 Hz
230 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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Holding power AC 50 Hz
1.6 VA

Holding power AC 60 Hz
1.4 VA

Switch-on power AC 50 Hz
2.2 VA

Switch-on power AC 60 Hz
1.6 VA

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

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.
R412007267

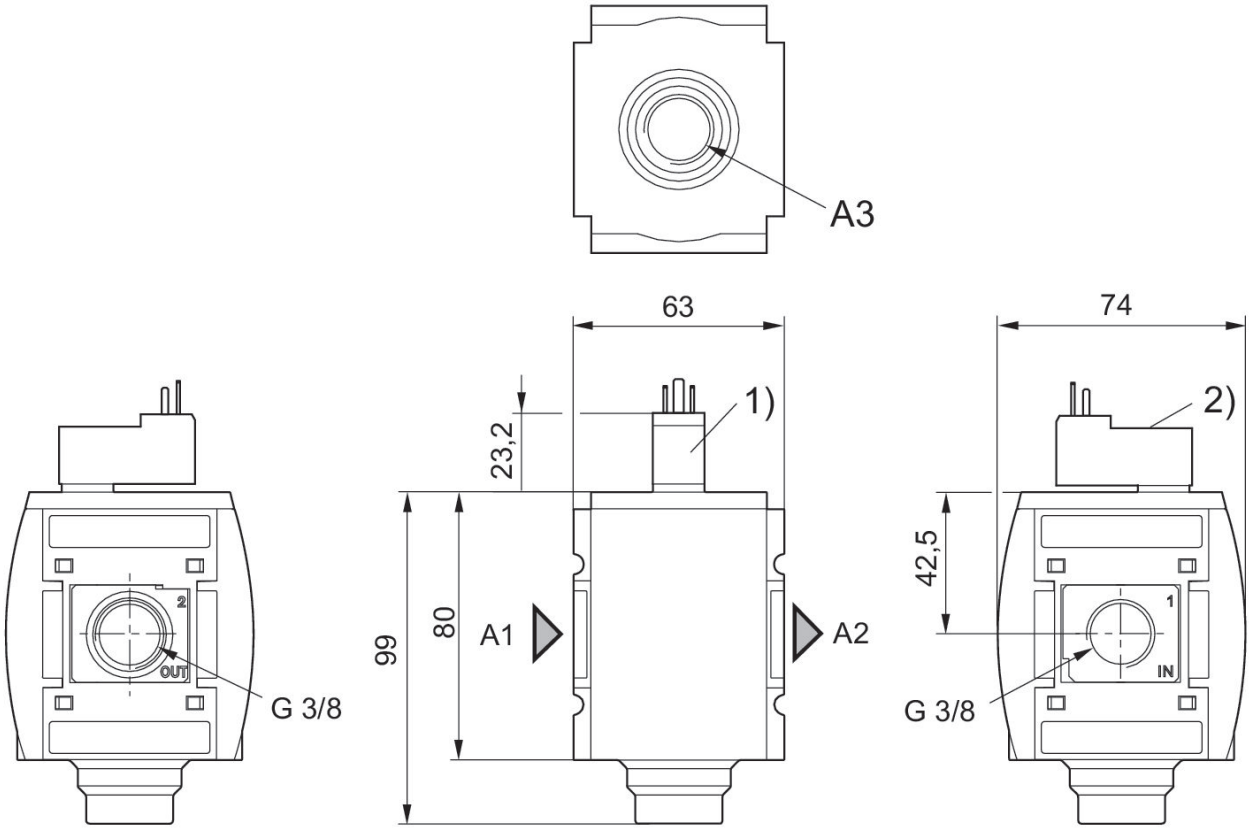
Technical information

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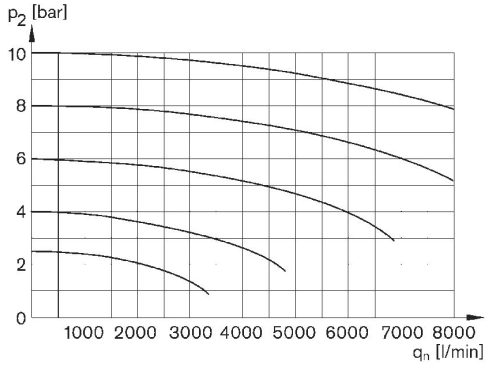
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



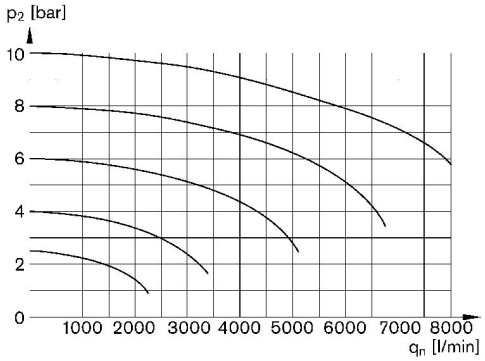
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



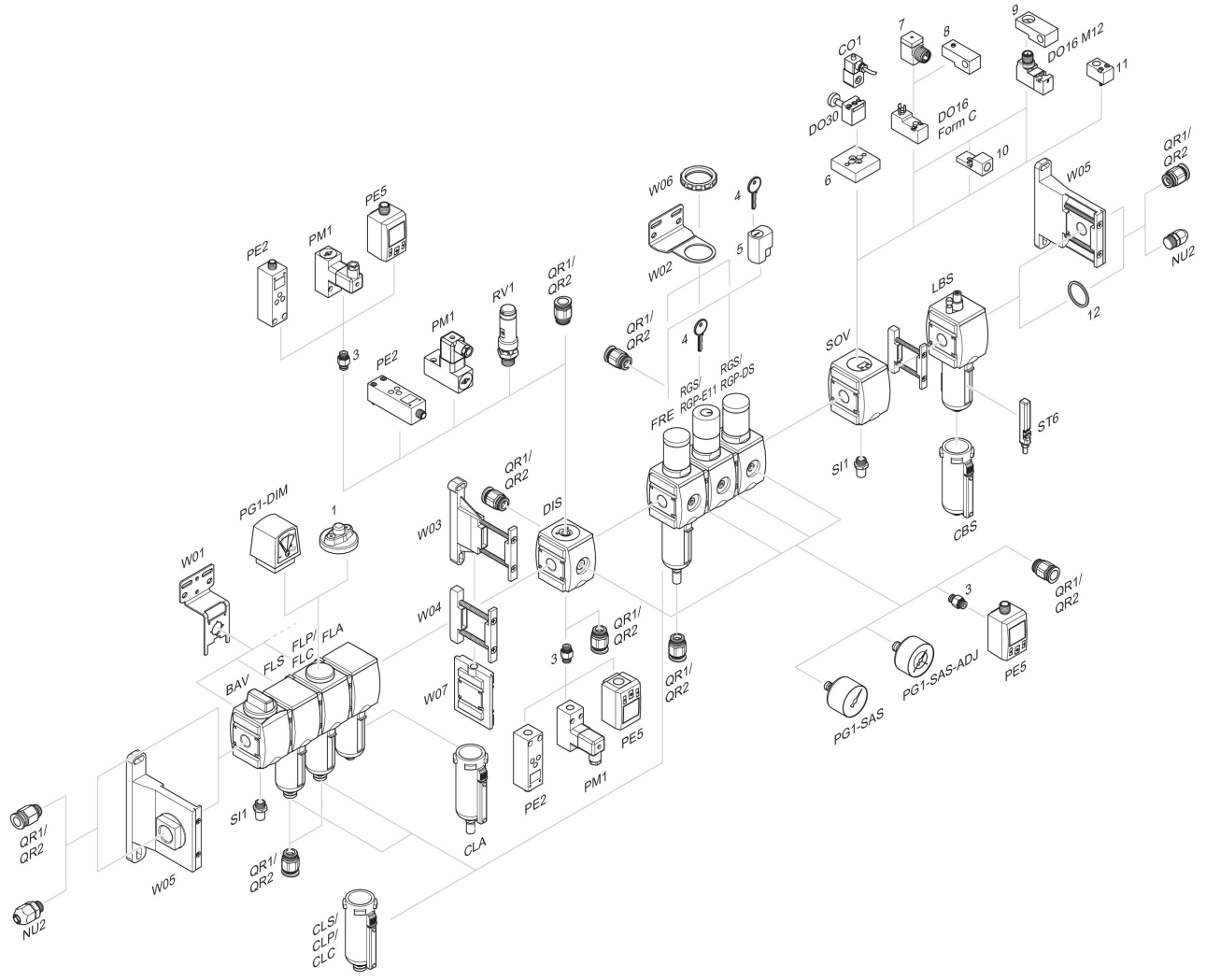
p2 = Secondary pressure
qn = Nominal flow

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

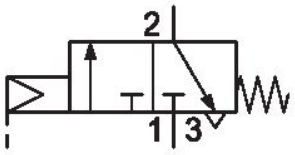
3/2-directional valve, electrically operated, Series AS3-SOV

R412007268

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 1/2

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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Protection class with connection
IP65

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.
R412007268

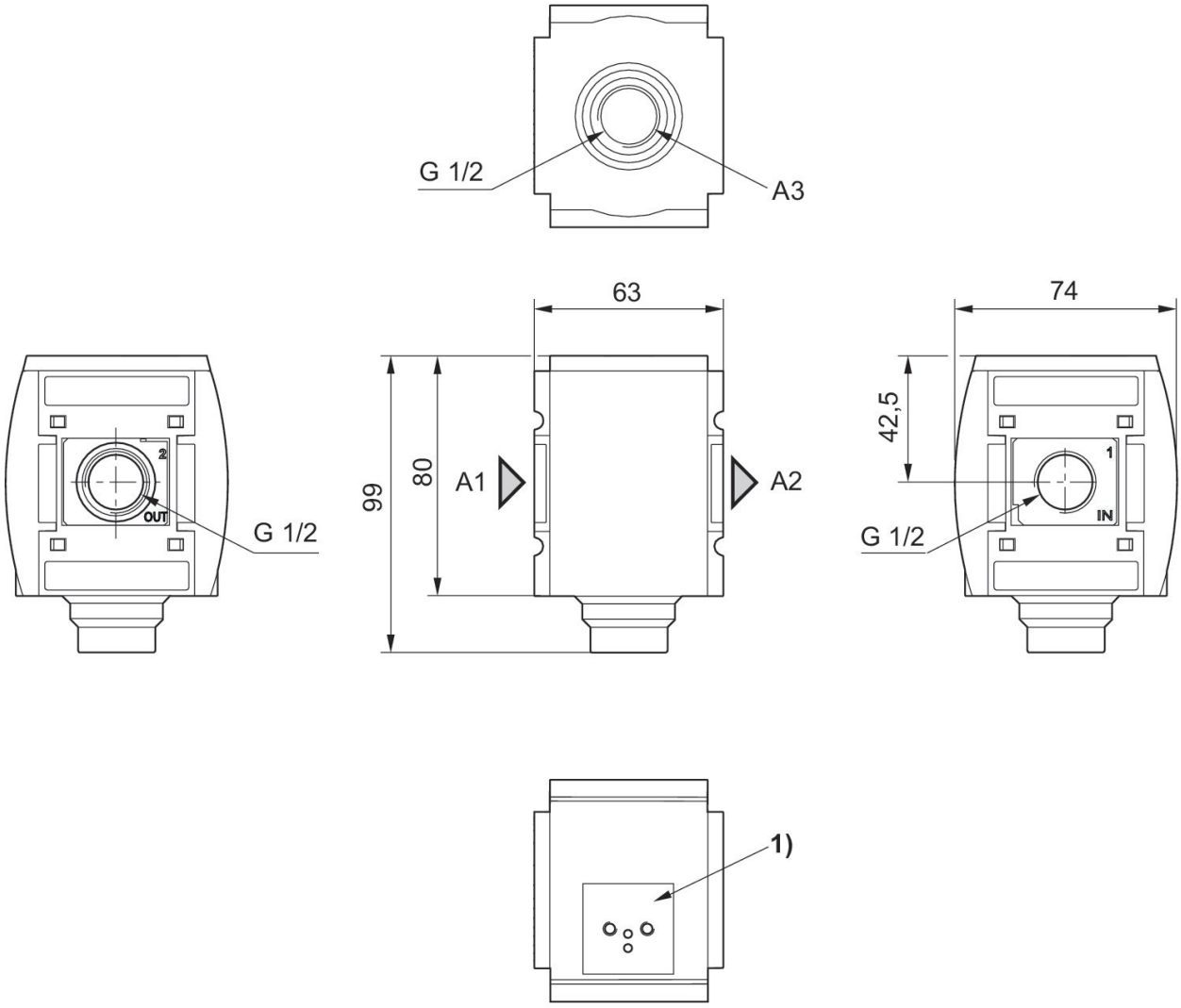
Technical information

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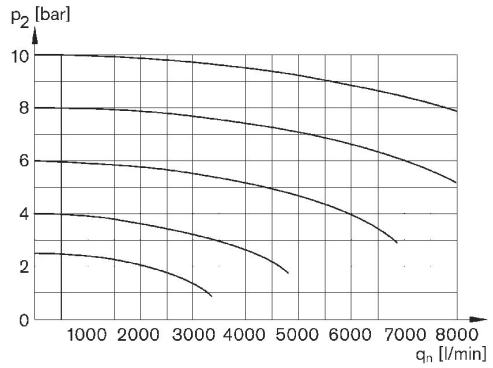
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



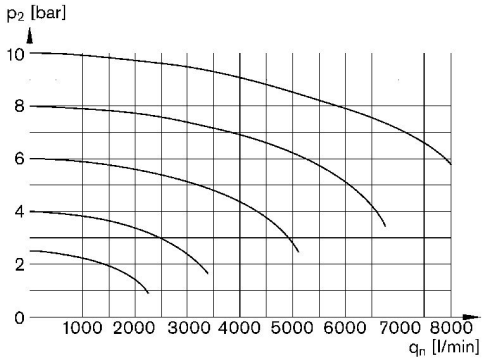
A1 = input
A2 = output
A3 = ventilation port
1) For pilot valve series DO16

Flow rate characteristic, p2 = 0,05 - 7 bar



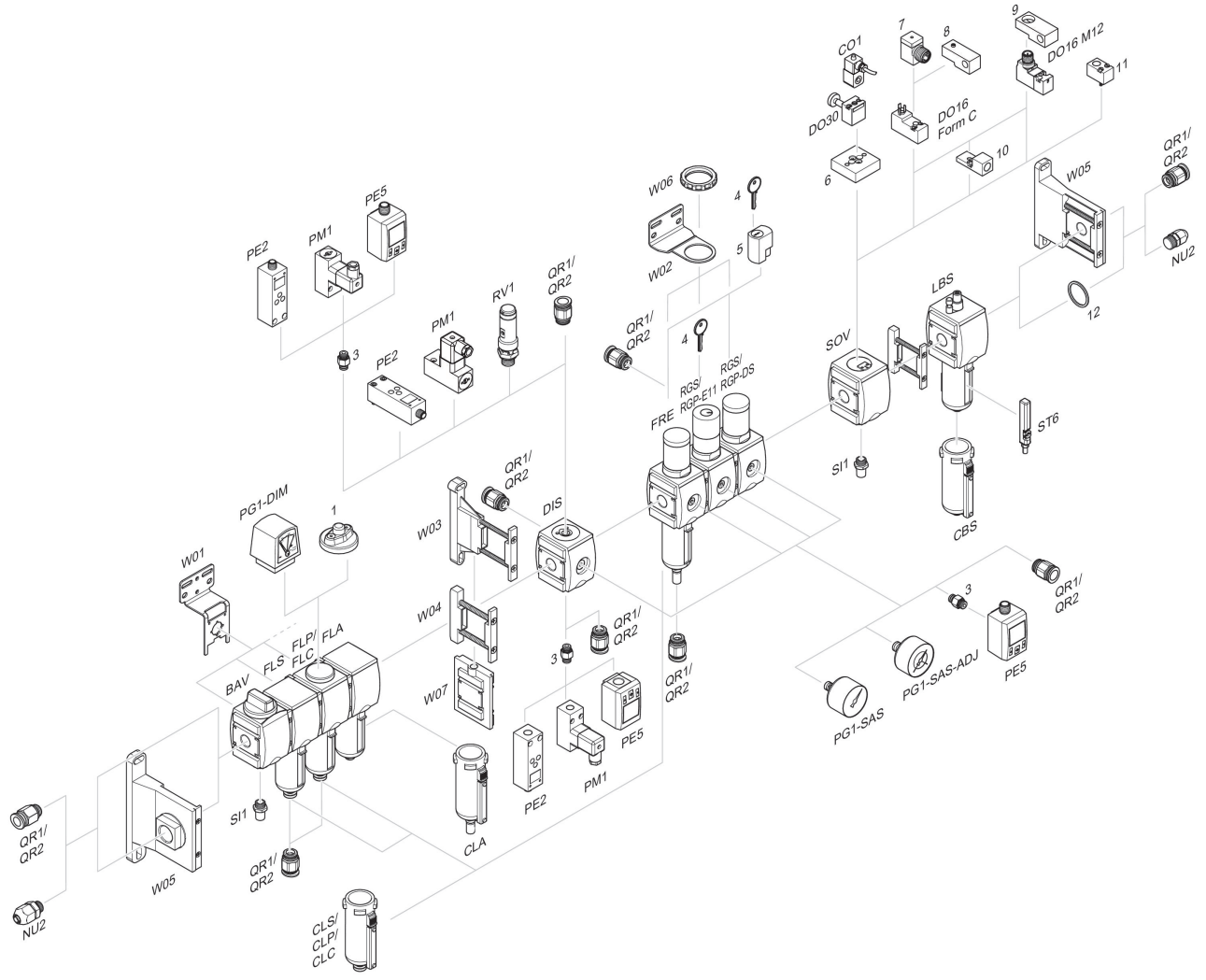
p2 = Secondary pressure
qn = Nominal flow

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

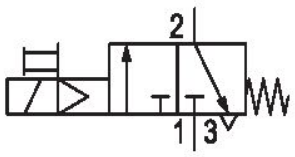
3/2-directional valve, electrically operated, Series AS3-SOV

R412007269

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 1/2

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, 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

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

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.
R412007269

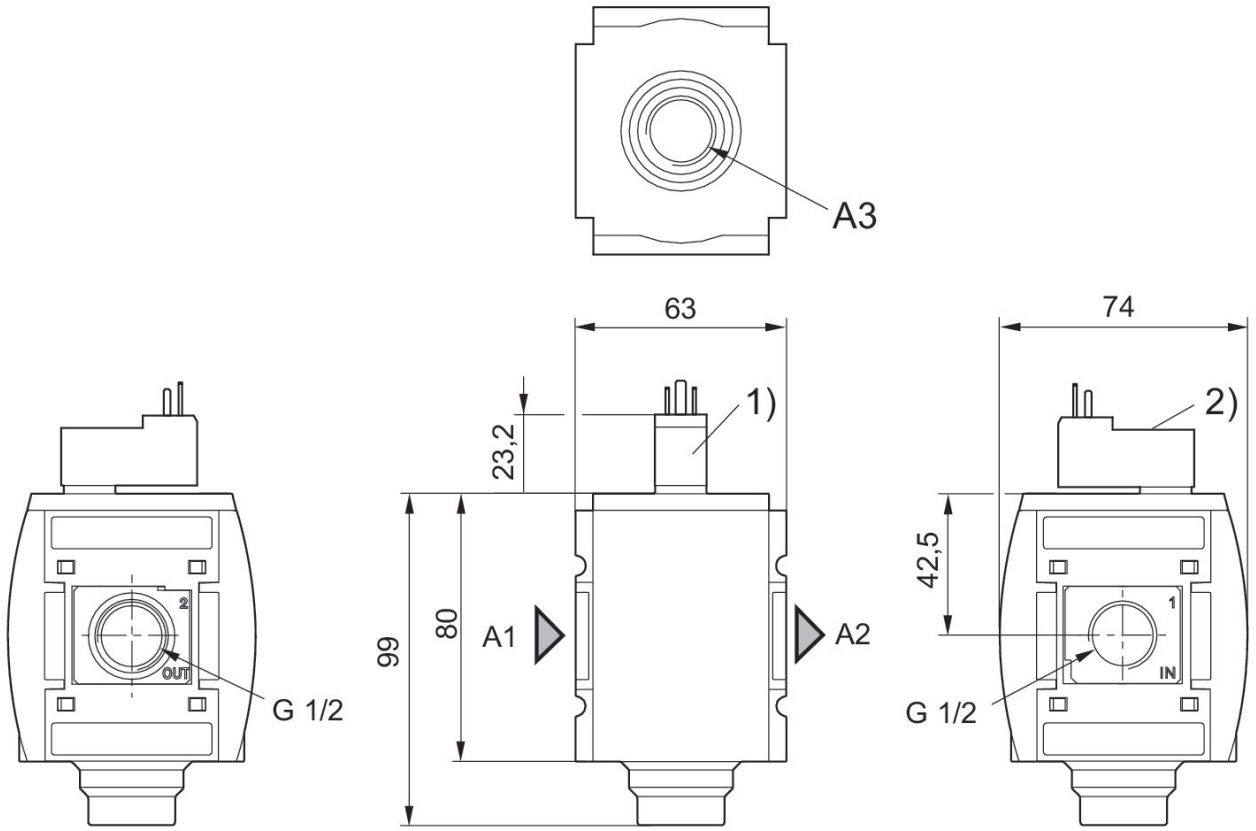
Technical information

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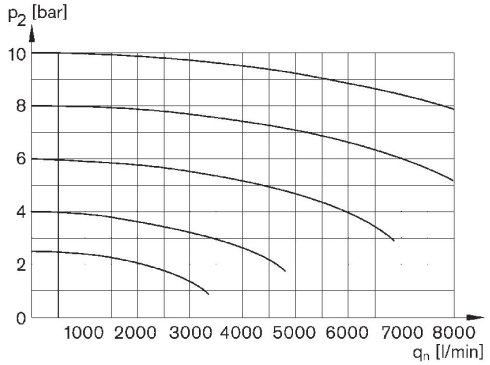
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



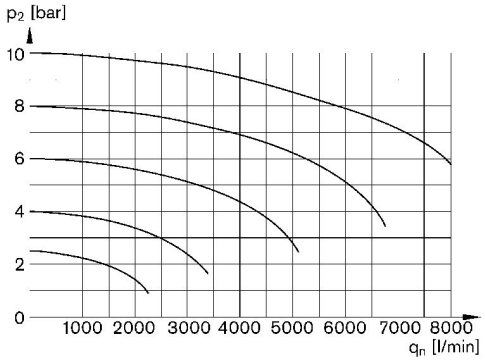
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



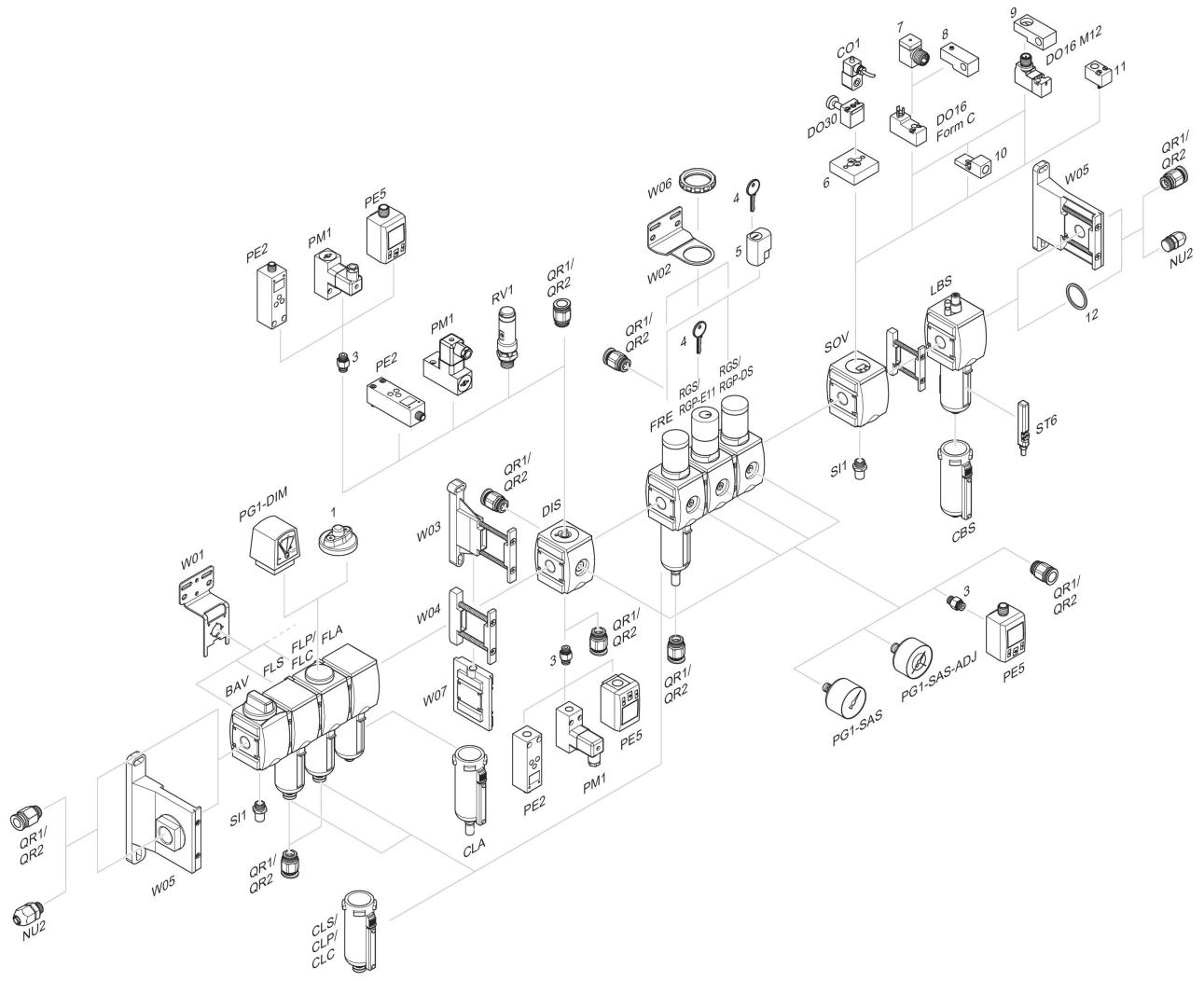
p2 = Secondary pressure
qn = Nominal flow

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

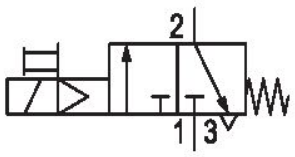
3/2-directional valve, electrically operated, Series AS3-SOV

R412007270

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 1/2

Working pressure min.
2.5 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
110 V

Operational voltage AC at 60 Hz
110 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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Holding power AC 50 Hz
1.6 VA

Holding power AC 60 Hz
1.4 VA

Switch-on power AC 50 Hz
2.2 VA

Switch-on power AC 60 Hz
1.6 VA

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

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.
R412007270

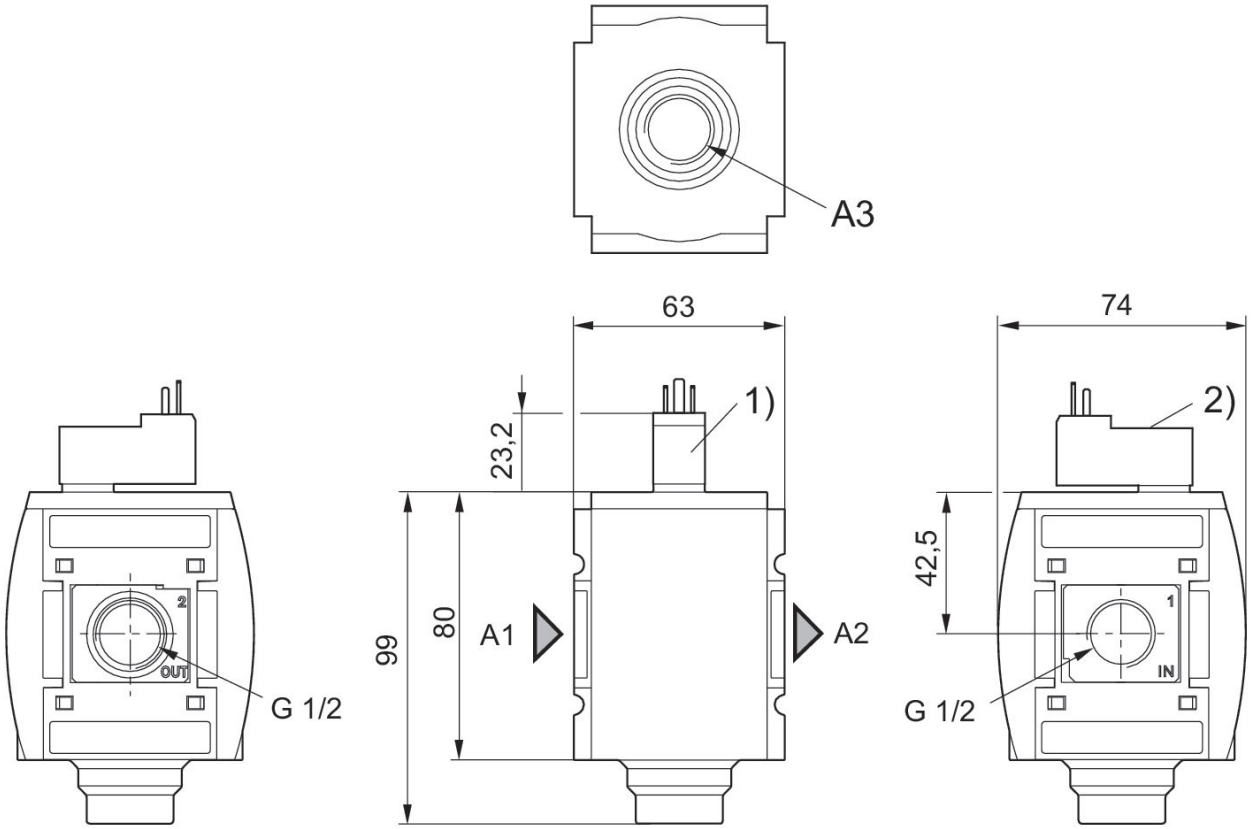
Technical information

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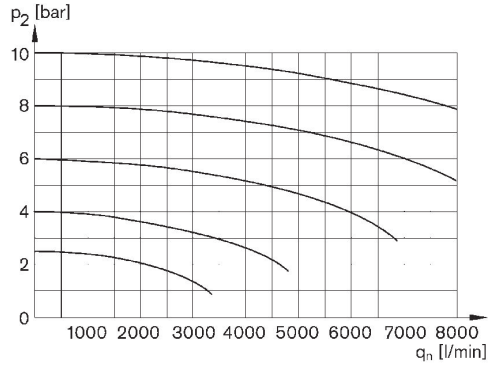
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



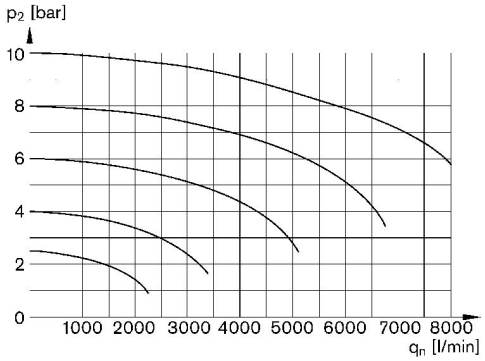
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



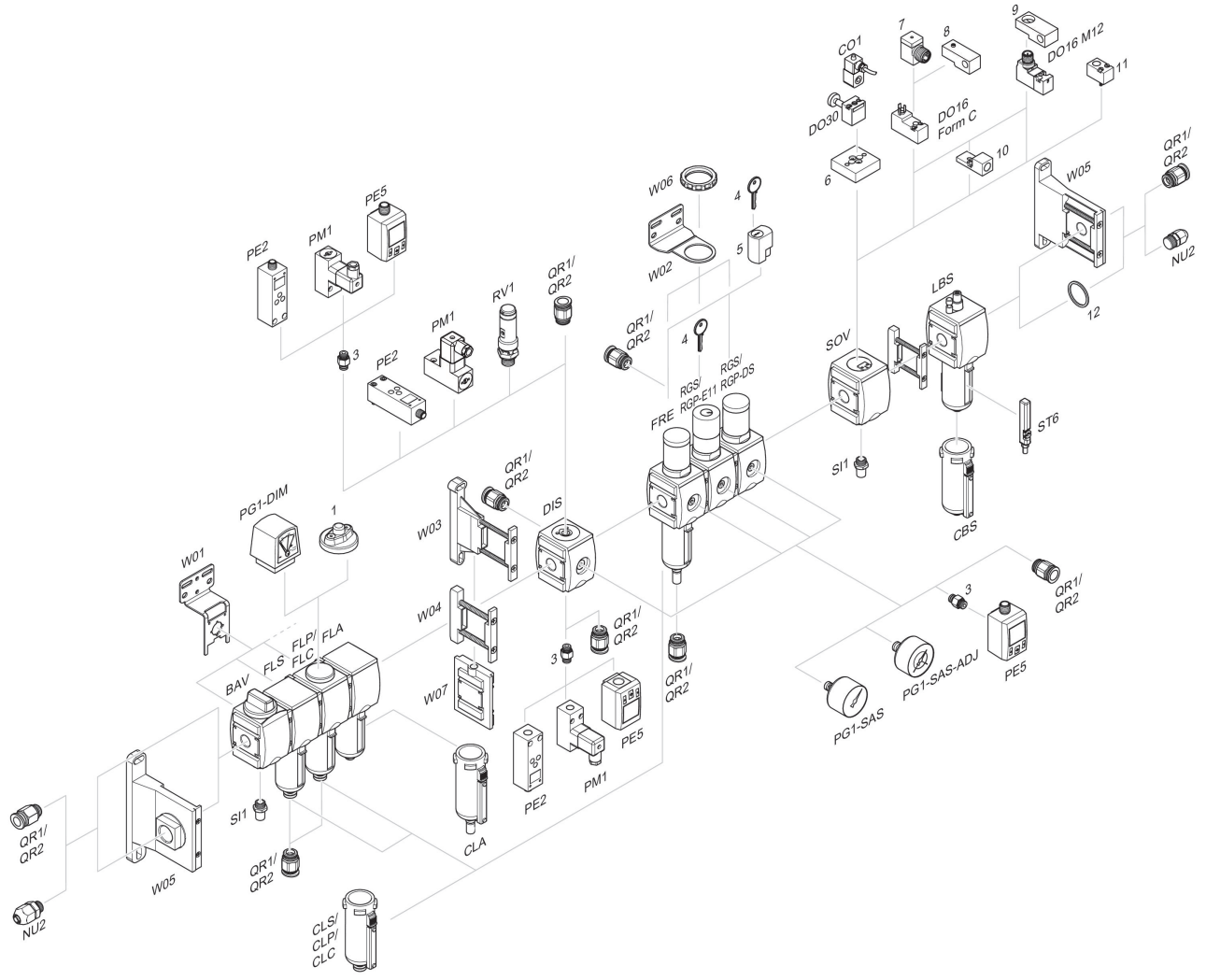
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



p2 = Secondary pressure
qn = Nominal flow

Accessories overview



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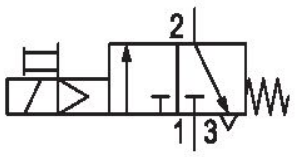
3/2-directional valve, electrically operated, Series AS3-SOV

R412007271

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
4500 l/min

Compressed air connection
G 1/2

Working pressure min.
2.5 bar

Working pressure max
10 bar

Operational voltage AC at 50 Hz
220 V

Operational voltage AC at 60 Hz
230 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, exhaust
G 1/2

Nominal flow Qn 1 to 2
4500 l/min

Nominal flow Qn 2 to 3
3200 l/min

Holding power AC 50 Hz
1.6 VA

Holding power AC 60 Hz
1.4 VA

Switch-on power AC 50 Hz
2.2 VA

Switch-on power AC 60 Hz
1.6 VA

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
ISO 15217, form C

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.
R412007271

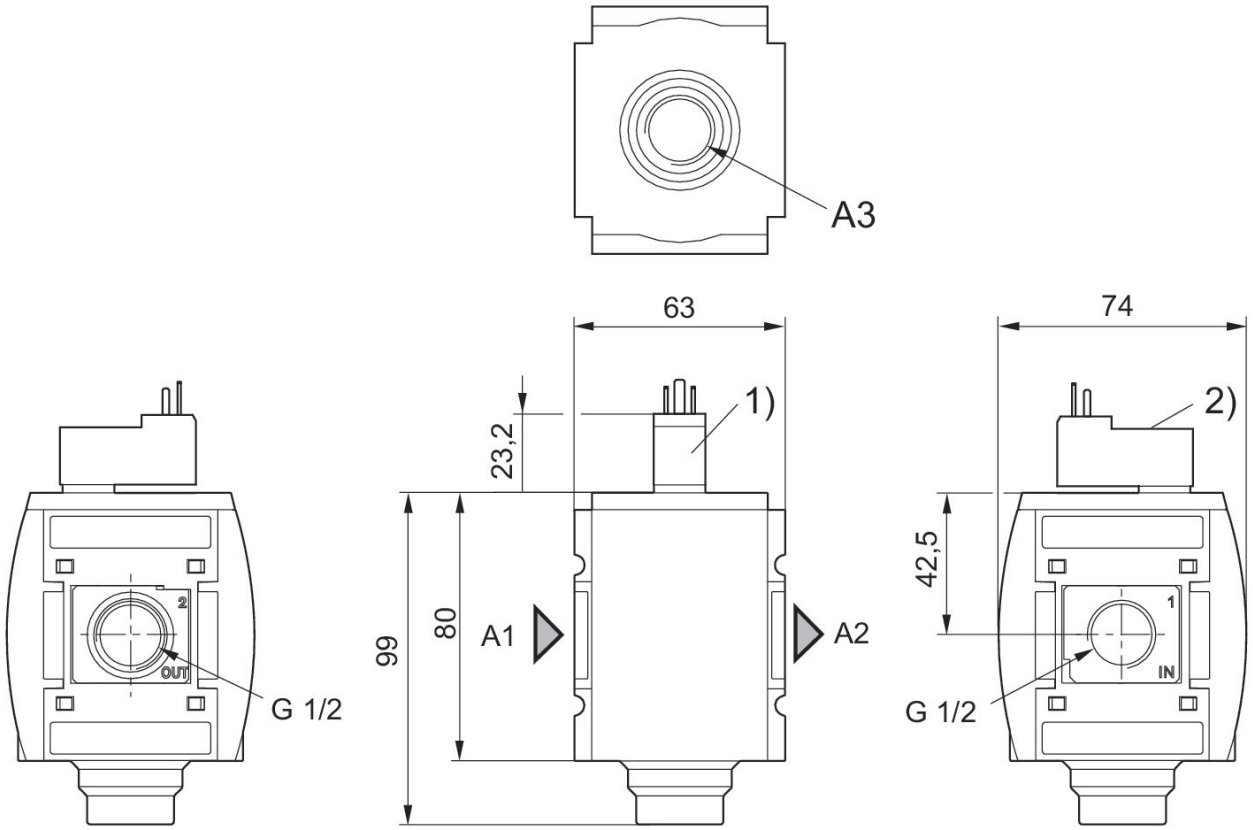
Technical information

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.

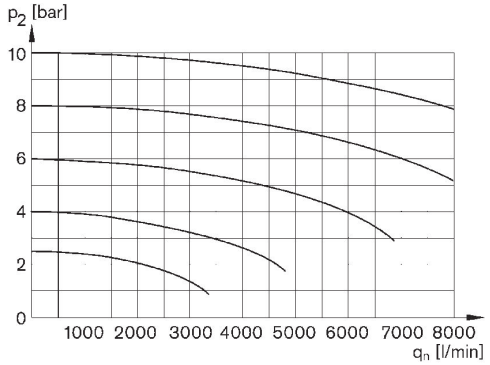
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



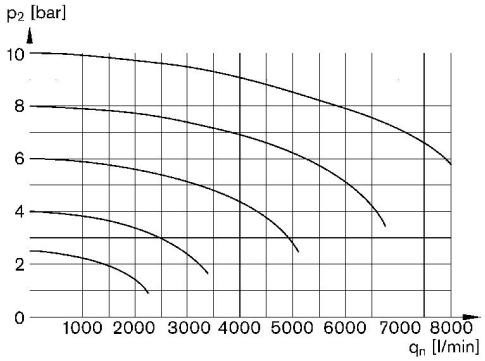
A1 = input
A2 = output
A3 = ventilation port
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



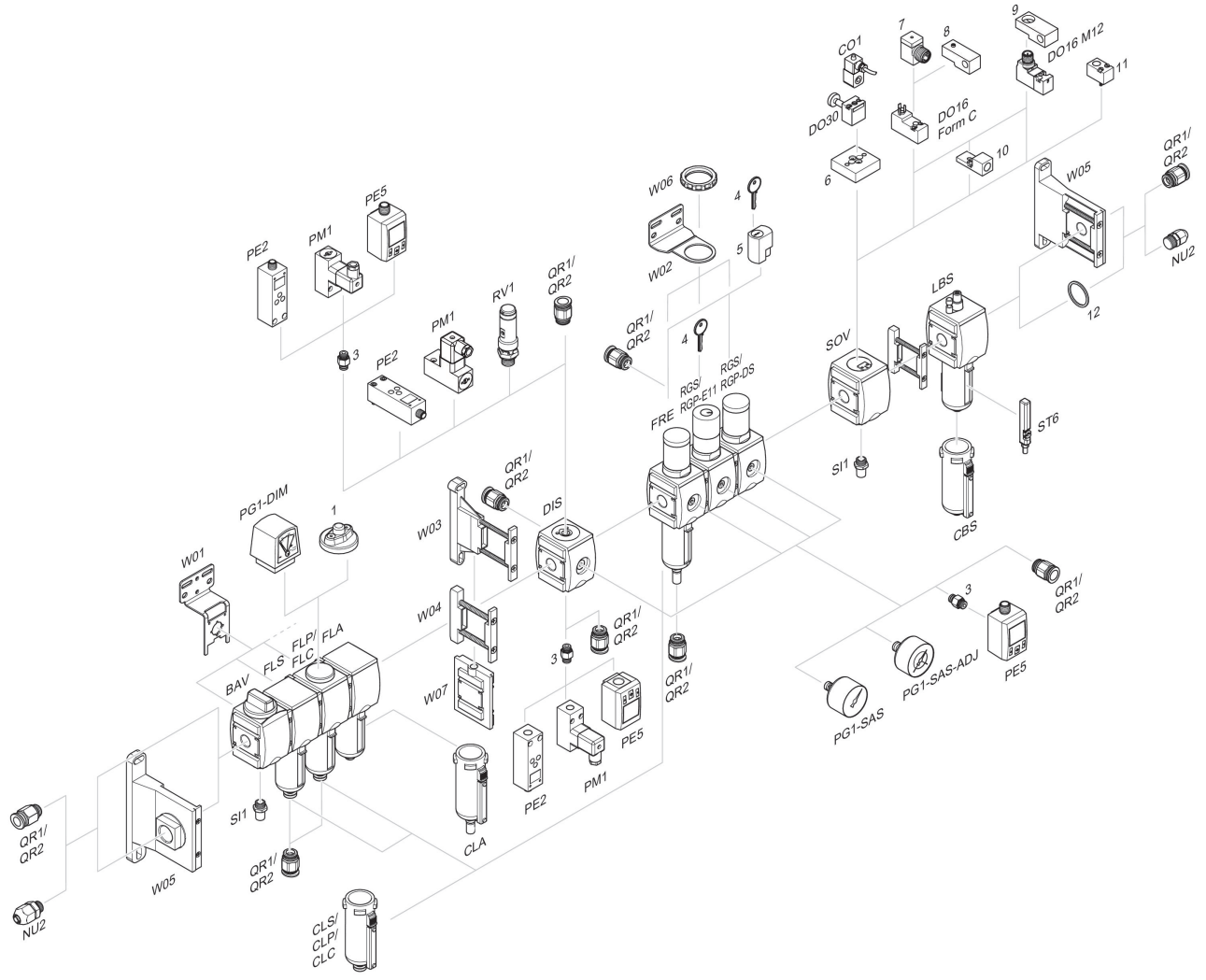
p2 = Secondary pressure
qn = Nominal flow

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

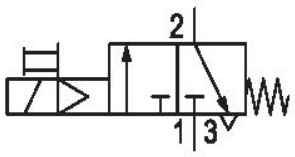
3/2-directional valve, electrically operated, Series AS3-SOV

R412007391

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

Compressed air connection
G 1/2

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, 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

Connector standard
EN 175301-803, form B

Protection class with connection
IP65

Electrical connection type 2
Plug

Electrical connection 2, thread size
M12x1

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.
R412007391

Technical information

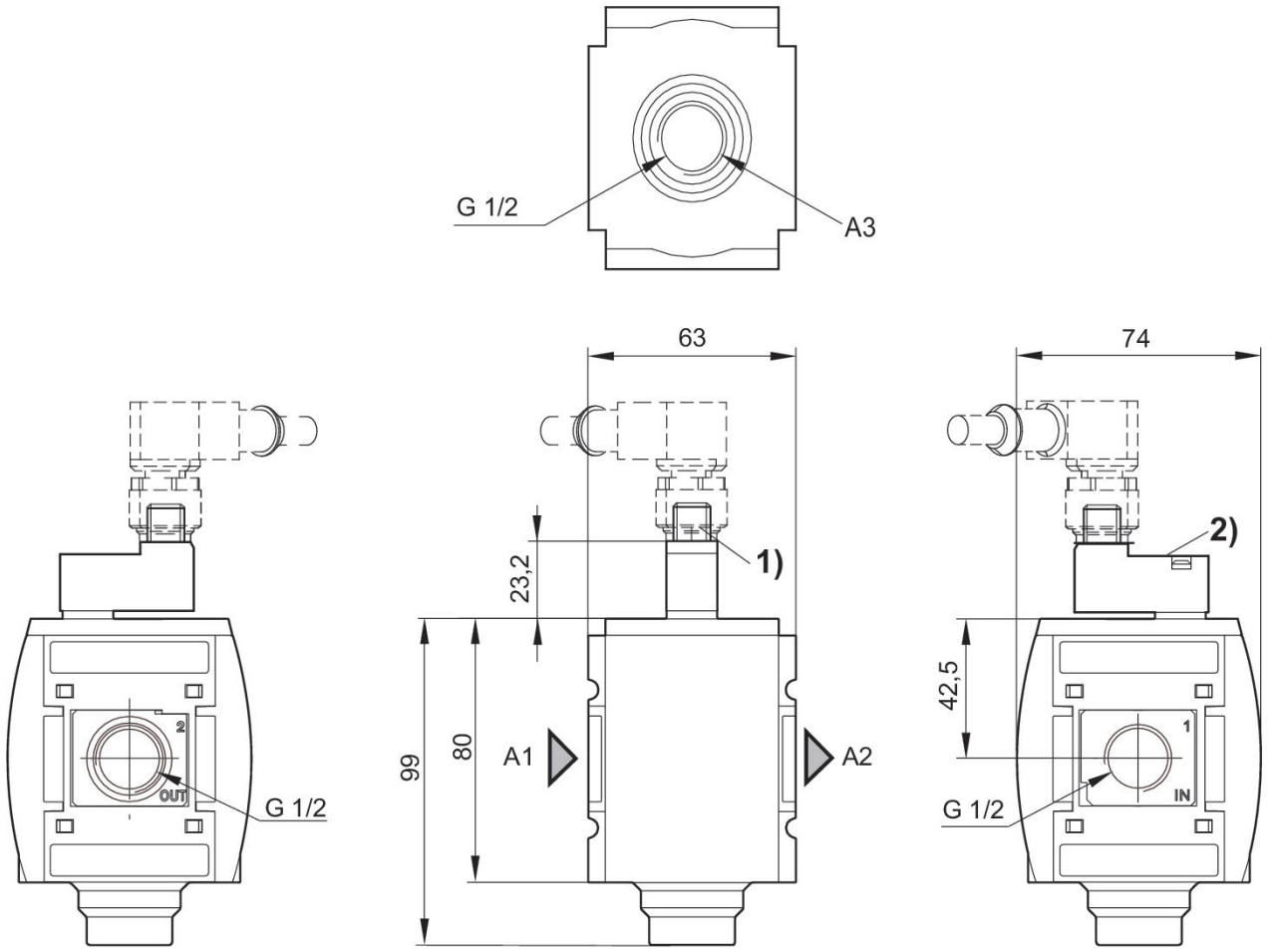
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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.

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

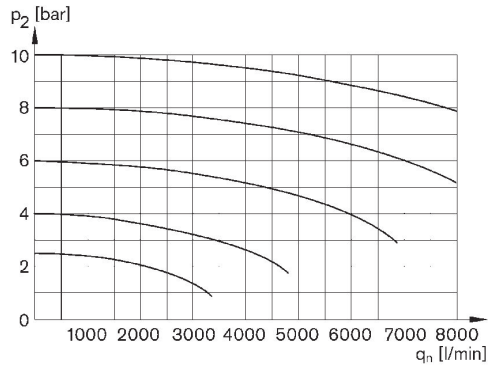
With valve plug connector EN 175301-803, form B

Dimensions in mm



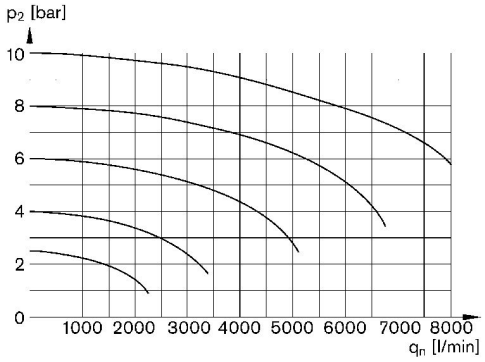
A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



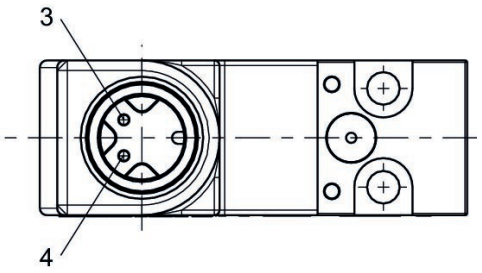
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



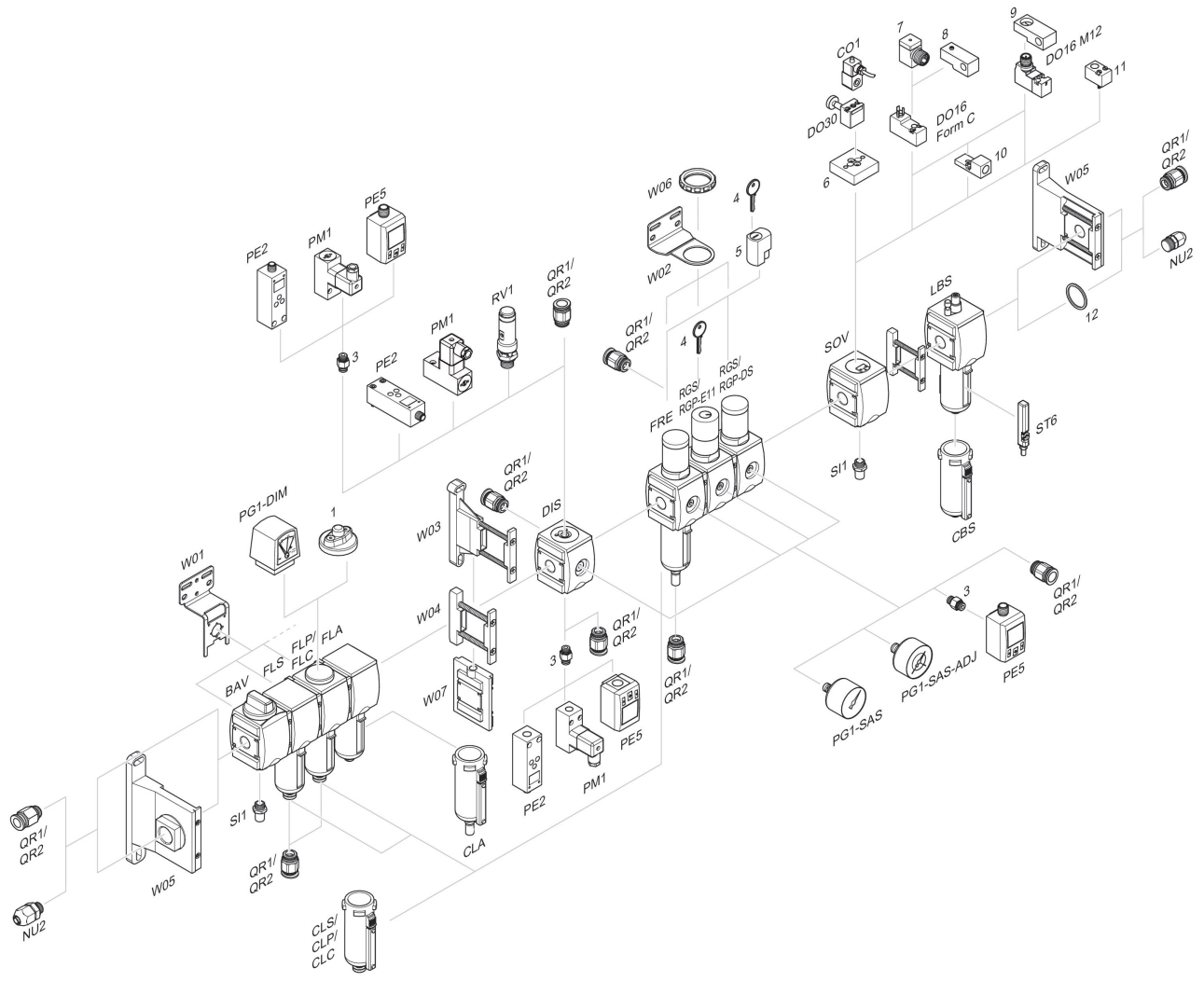
p2 = Secondary pressure
qn = Nominal flow

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

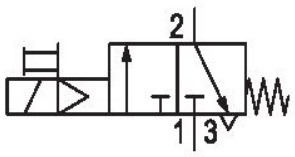
3/2-directional valve, electrically operated, Series AS3-SOV

R412007397

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

Compressed air connection
G 3/8

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, 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

Connector standard
ISO 15217

Protection class with connection
IP65

Reverse polarity protection
Protected against polarity reversal

Electrical connection type 2
Plug

Electrical connection 2, thread size
M12x1

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.
R412007397

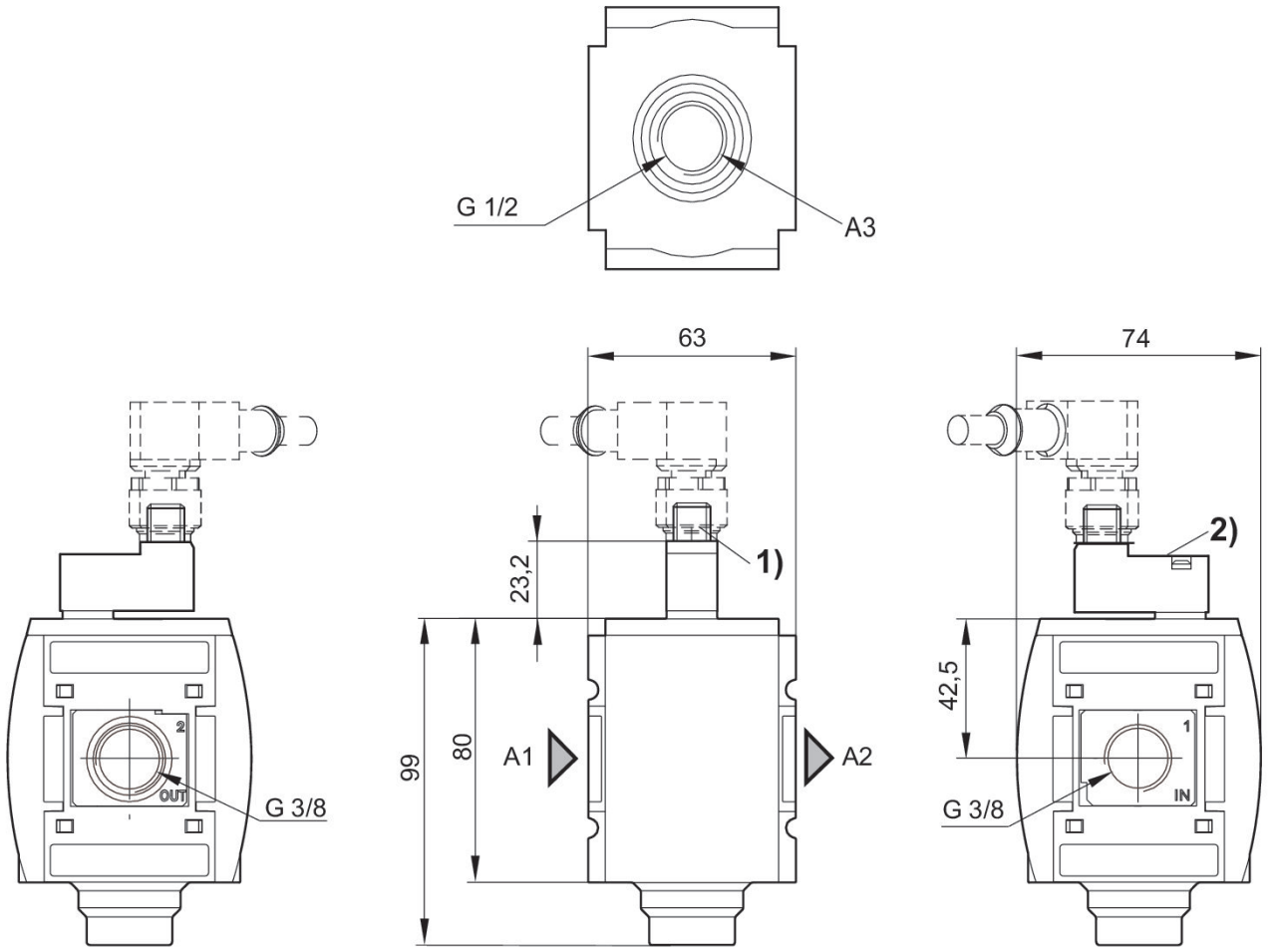
Technical information

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.

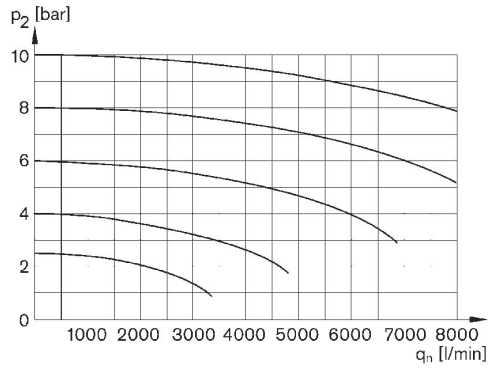
Nominal flow Qn with secondary pressure p2 = 6 bar at Δp = 1 bar

Dimensions in mm



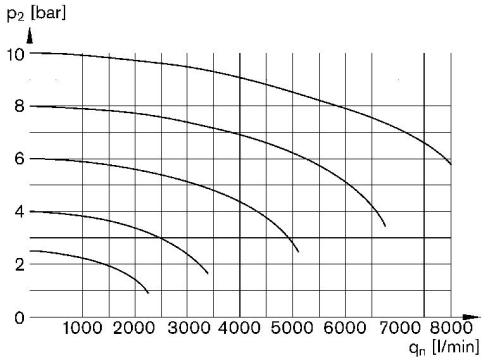
A1 = input
A2 = output
A3 = ventilation port
plug M12
Manual override

Flow rate characteristic, p2 = 0,05 - 7 bar



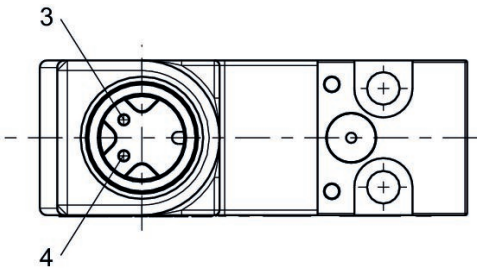
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



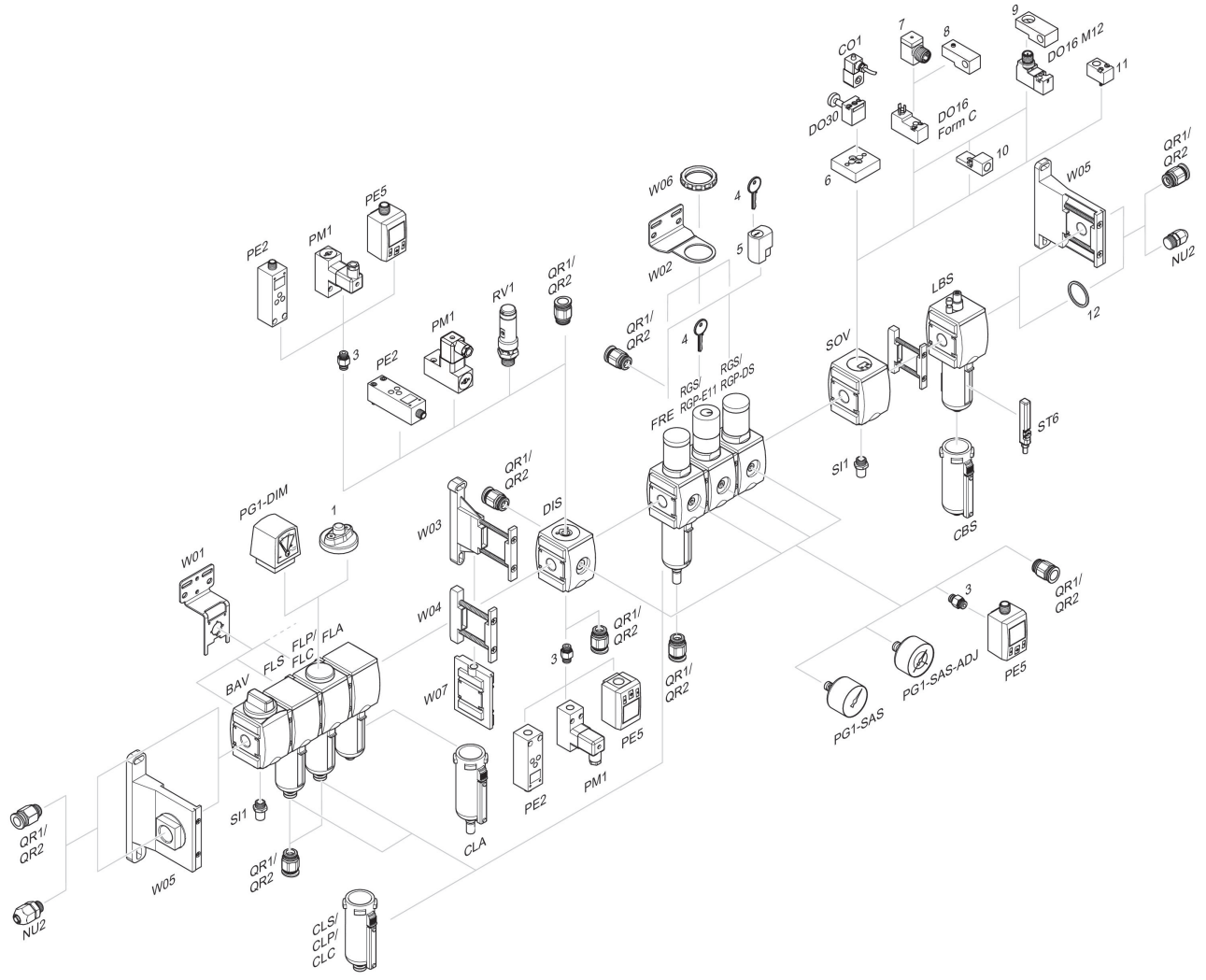
p2 = Secondary pressure
qn = Nominal flow

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

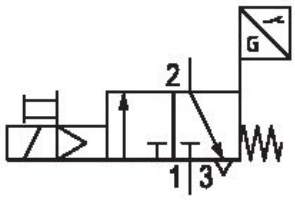
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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

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
Plug

Electrical connection for sensor
M12

Electrical connection for sensor
3-pin

Cable length sensor
0.3 m

Electrical connection for sensor
with knurled screw

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.
R412007336

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.

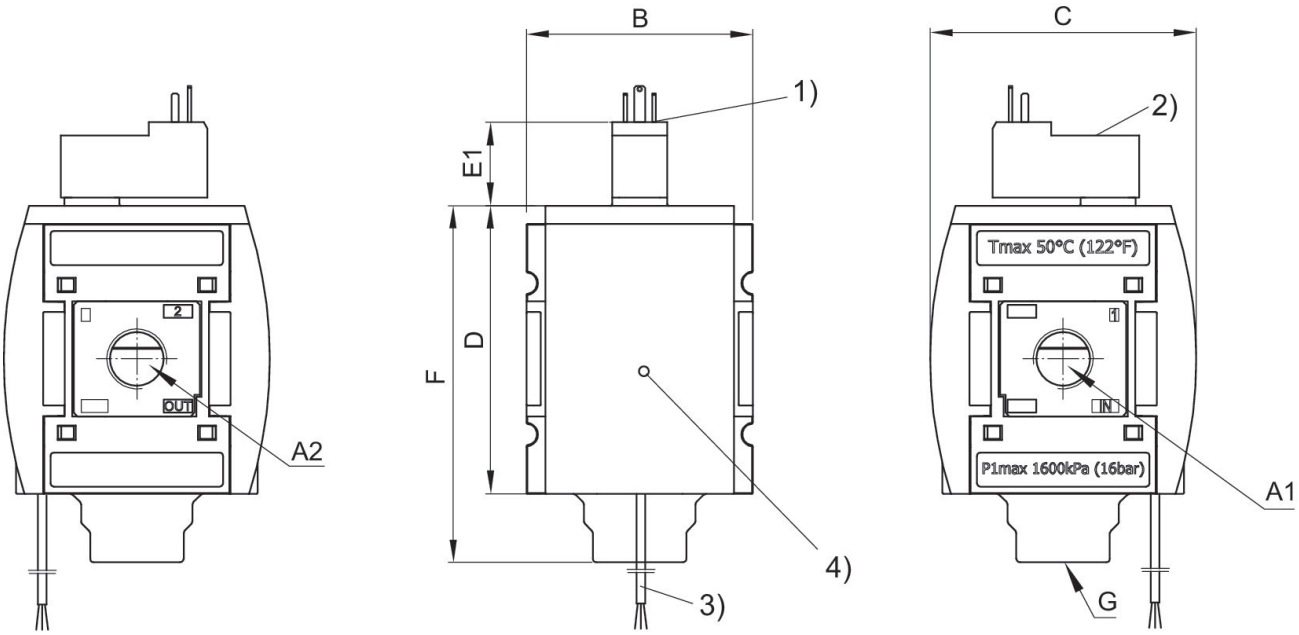
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

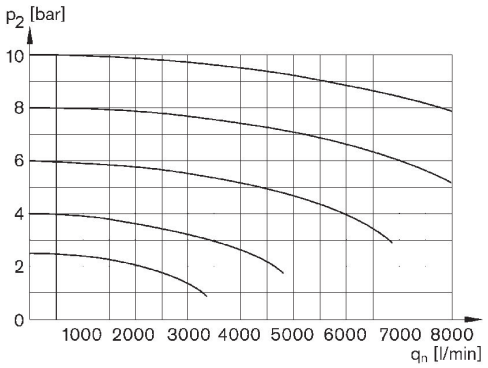


A1 = input
A2 = output
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

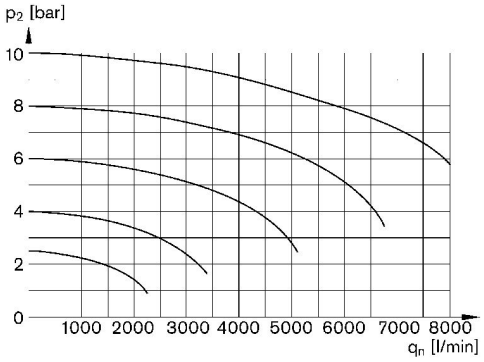
Part No.	A1	A2	B	C	D	E1	F	G
R412007336	G3/8	G3/8	63	74	80	23.2	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



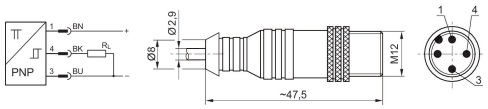
p2 = secondary pressure
qn = nominal flow

Rear exhaust



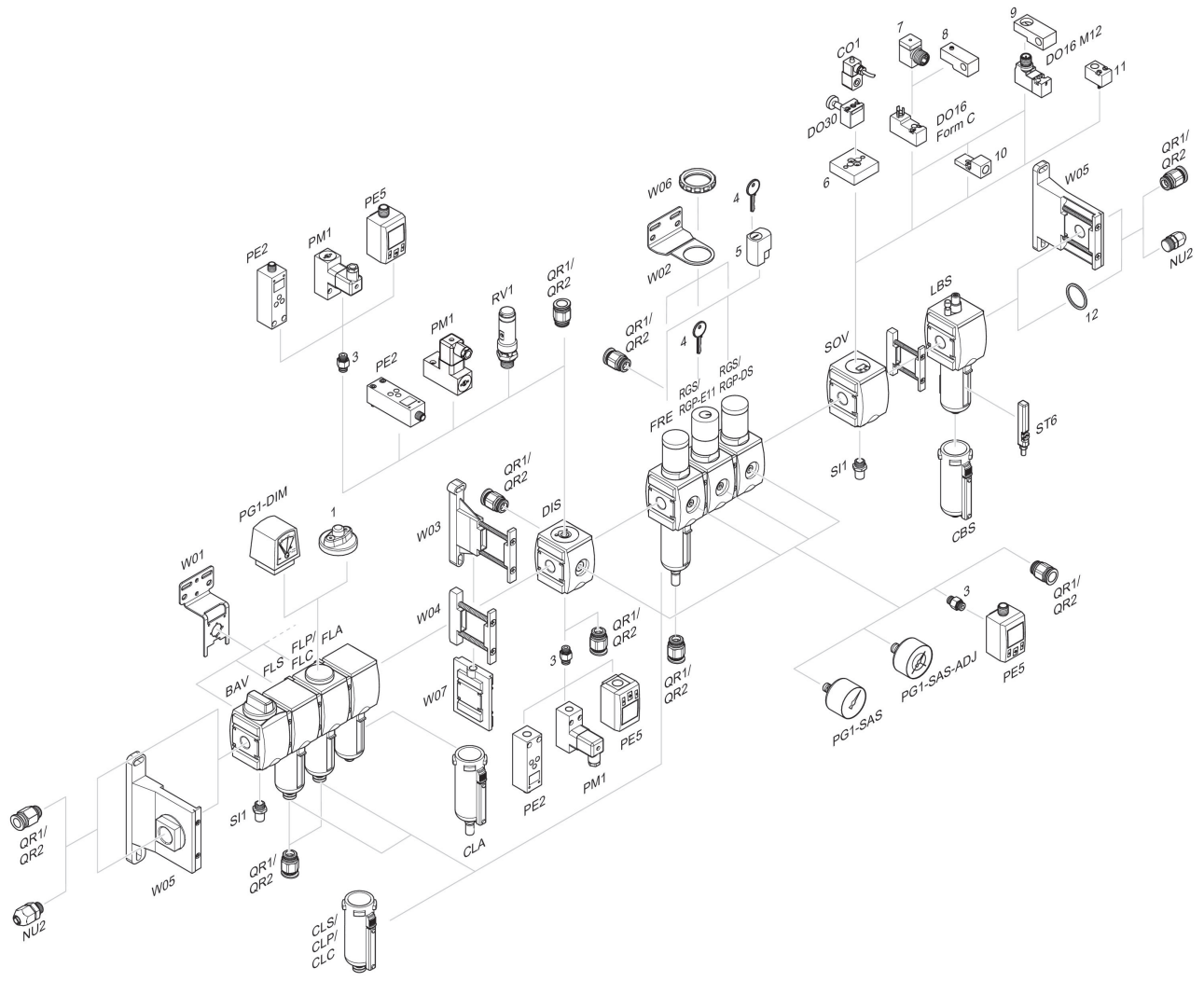
p2 = secondary pressure
qn = nominal flow

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

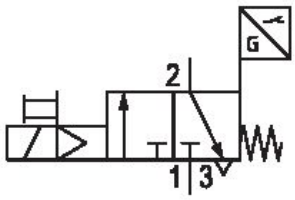
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007337

General series information
Series AS3

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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
Plug

Electrical connection 2, thread size
ISO 15217, form C

Electrical connection for sensor
Plug

Electrical connection for sensor
M12

Electrical connection for sensor
3-pin

Cable length sensor
0.3 m

Electrical connection for sensor
with knurled screw

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.
R412007337

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.

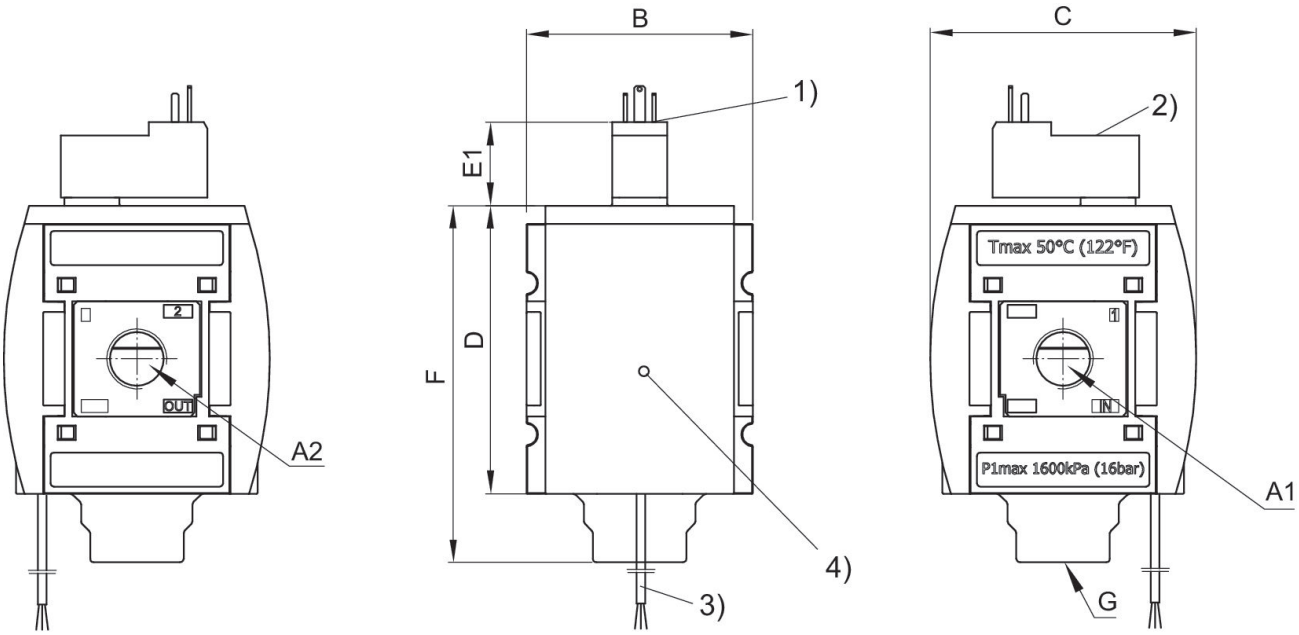
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

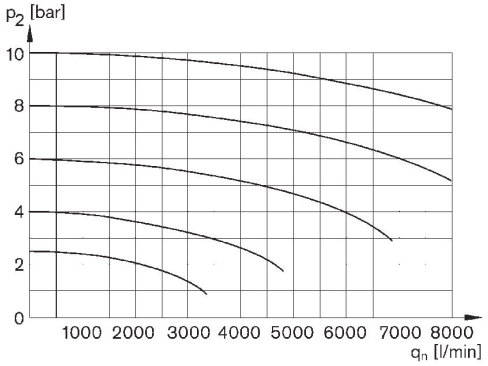


A1 = input
A2 = output
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

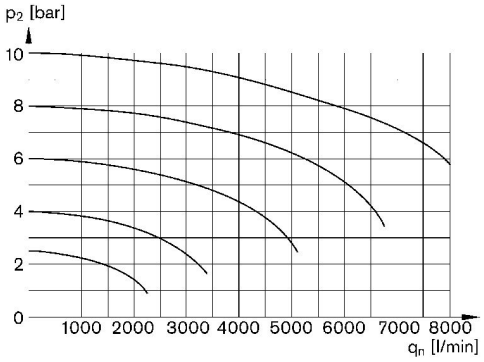
Part No.	A1	A2	B	C	D	E1	F	G
R412007337	G1/2	G1/2	63	74	80	23.2	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



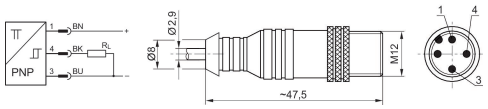
p2 = secondary pressure
qn = nominal flow

Rear exhaust



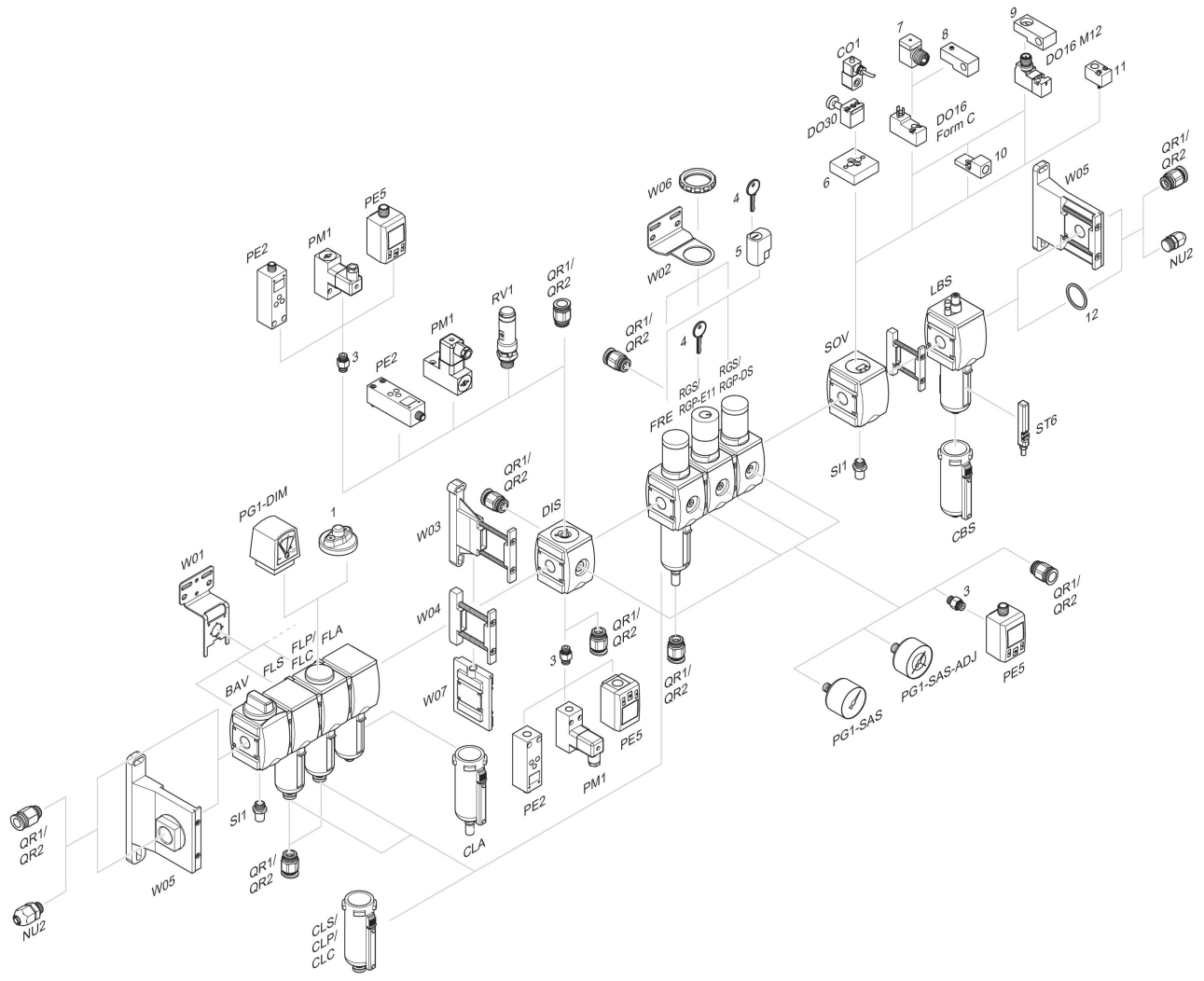
p2 = secondary pressure
qn = nominal flow

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

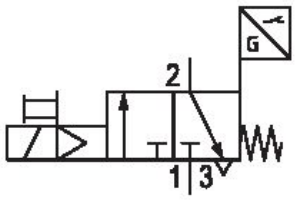
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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
Type	With position inquiry, with integrated sensor
Activation	Electrically
Nominal flow Qn	4500 l/min
Compressed air connection	G 3/8
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, 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	M12x1
Electrical connection for sensor	Plug
Electrical connection for sensor	M8
Electrical connection for sensor	3-pin
Cable length sensor	0.3 m
Electrical connection for sensor	with knurled screw
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.	R412007353

Technical information

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

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

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

Can be used in circuits with increased efficiency.

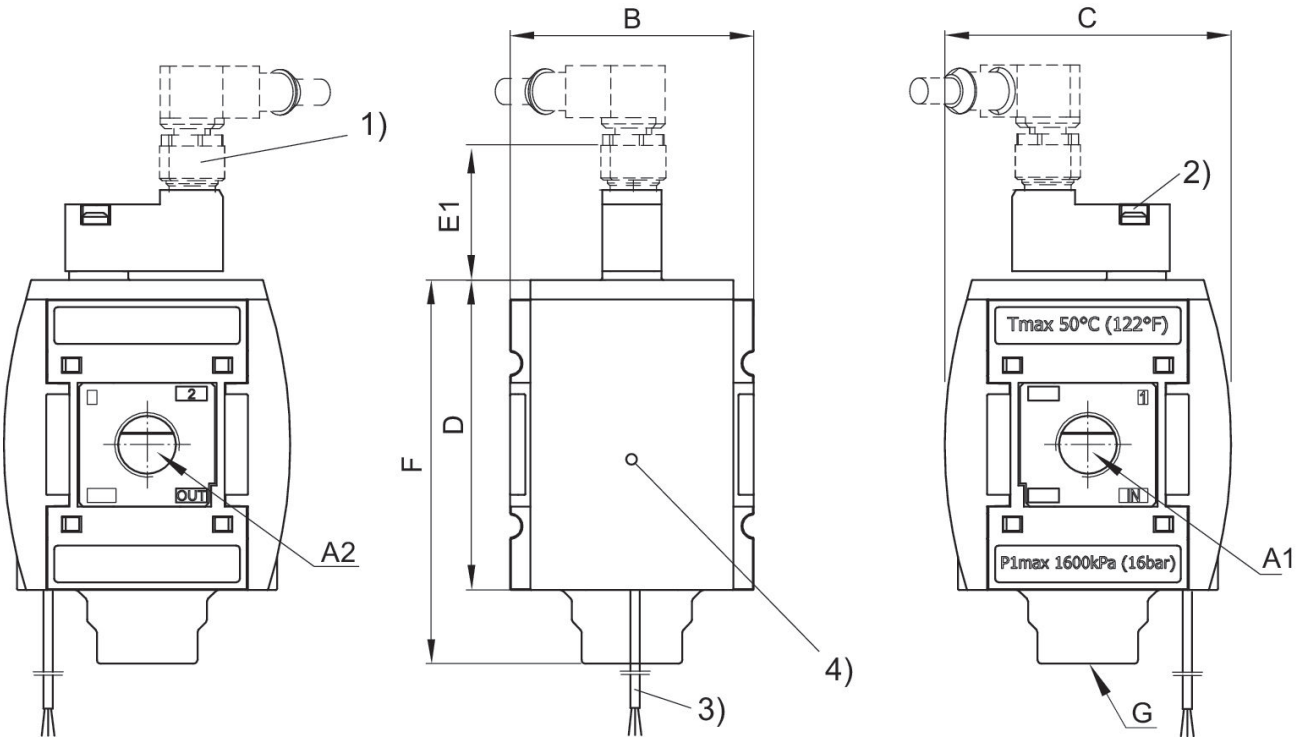
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

For sensor connection, see the selection table.

Dimensions

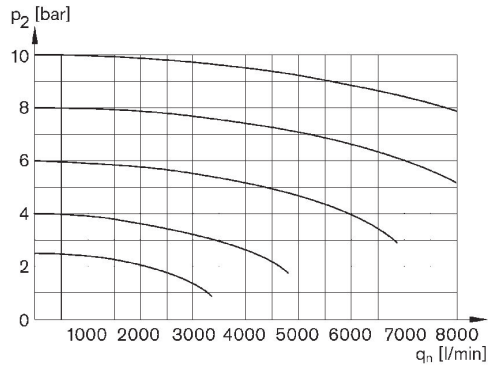


A1 = input
A2 = output
1) plug M12
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

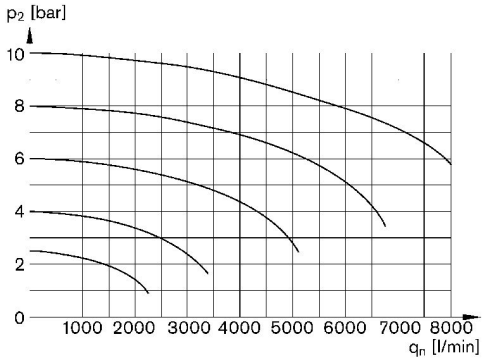
Part No.	A1	A2	B	C	D	E1	F	G
R412007353	G3/8	G3/8	63	74	80	39	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



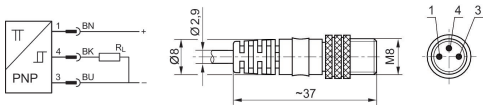
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



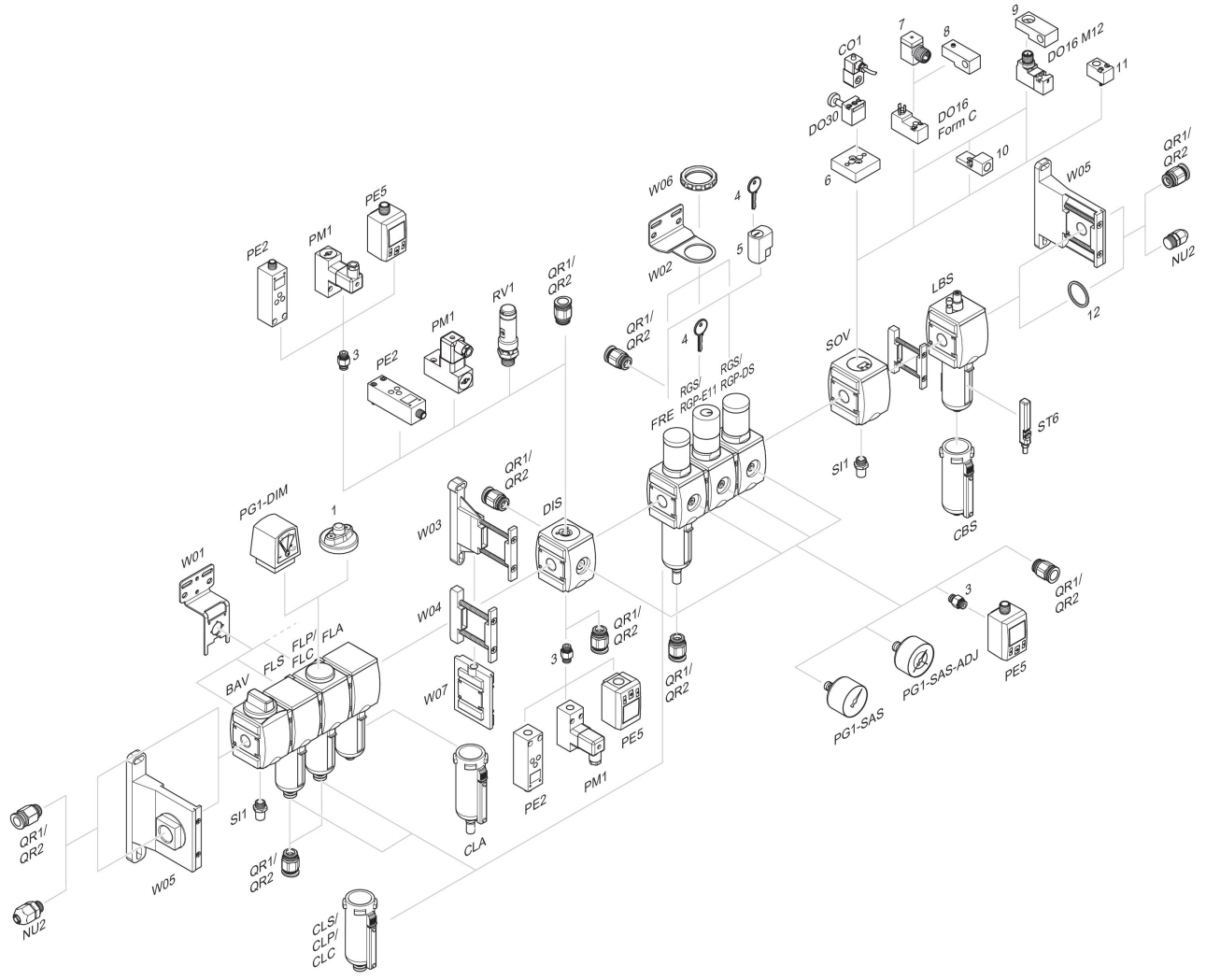
p2 = Secondary pressure
qn = Nominal flow

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

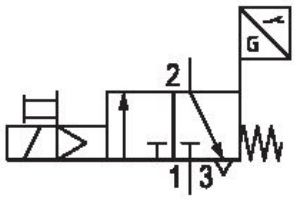
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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
Type	With position inquiry, with integrated sensor
Activation	Electrically
Nominal flow Qn	4500 l/min
Compressed air connection	G 1/2
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, 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	M12x1
Electrical connection for sensor	Plug
Electrical connection for sensor	M8
Electrical connection for sensor	3-pin
Cable length sensor	0.3 m
Electrical connection for sensor	with knurled screw
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.	R412007354

Technical information

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

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

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

Can be used in circuits with increased efficiency.

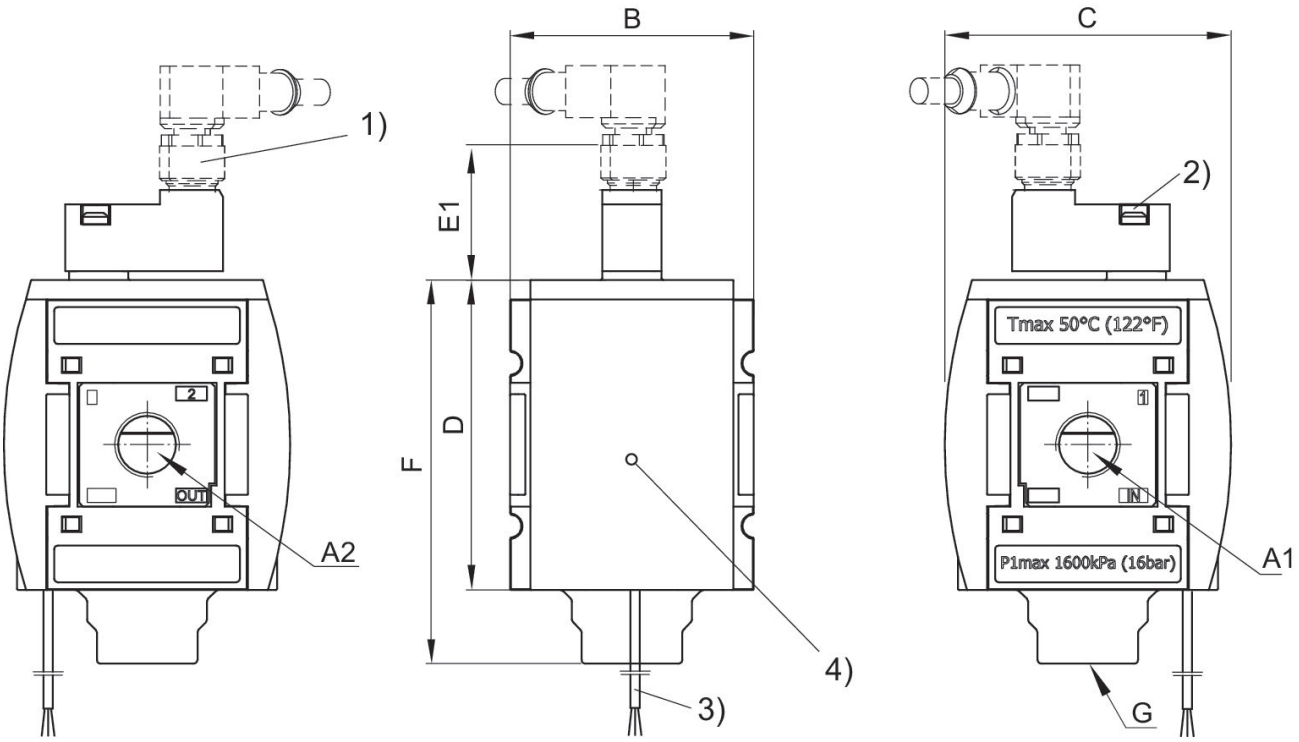
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

For sensor connection, see the selection table.

Dimensions

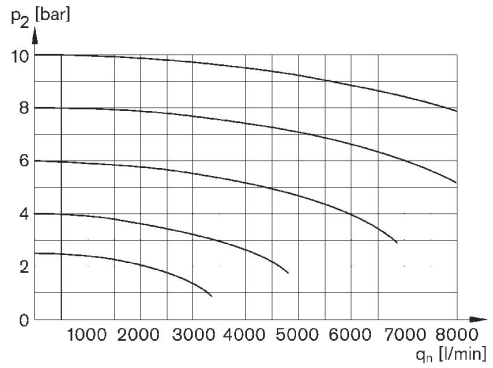


A1 = input
A2 = output
1) plug M12
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

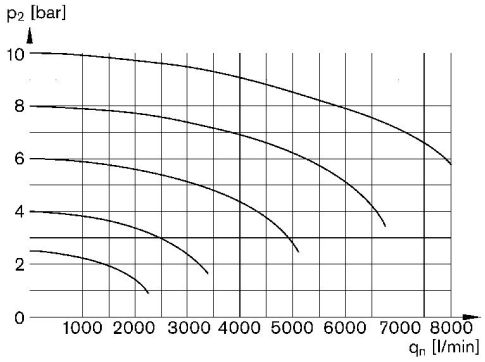
Part No.	A1	A2	B	C	D	E1	F	G
R412007354	G1/2	G1/2	63	74	80	39	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



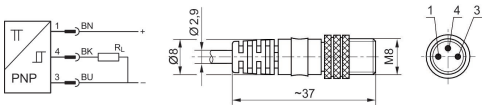
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



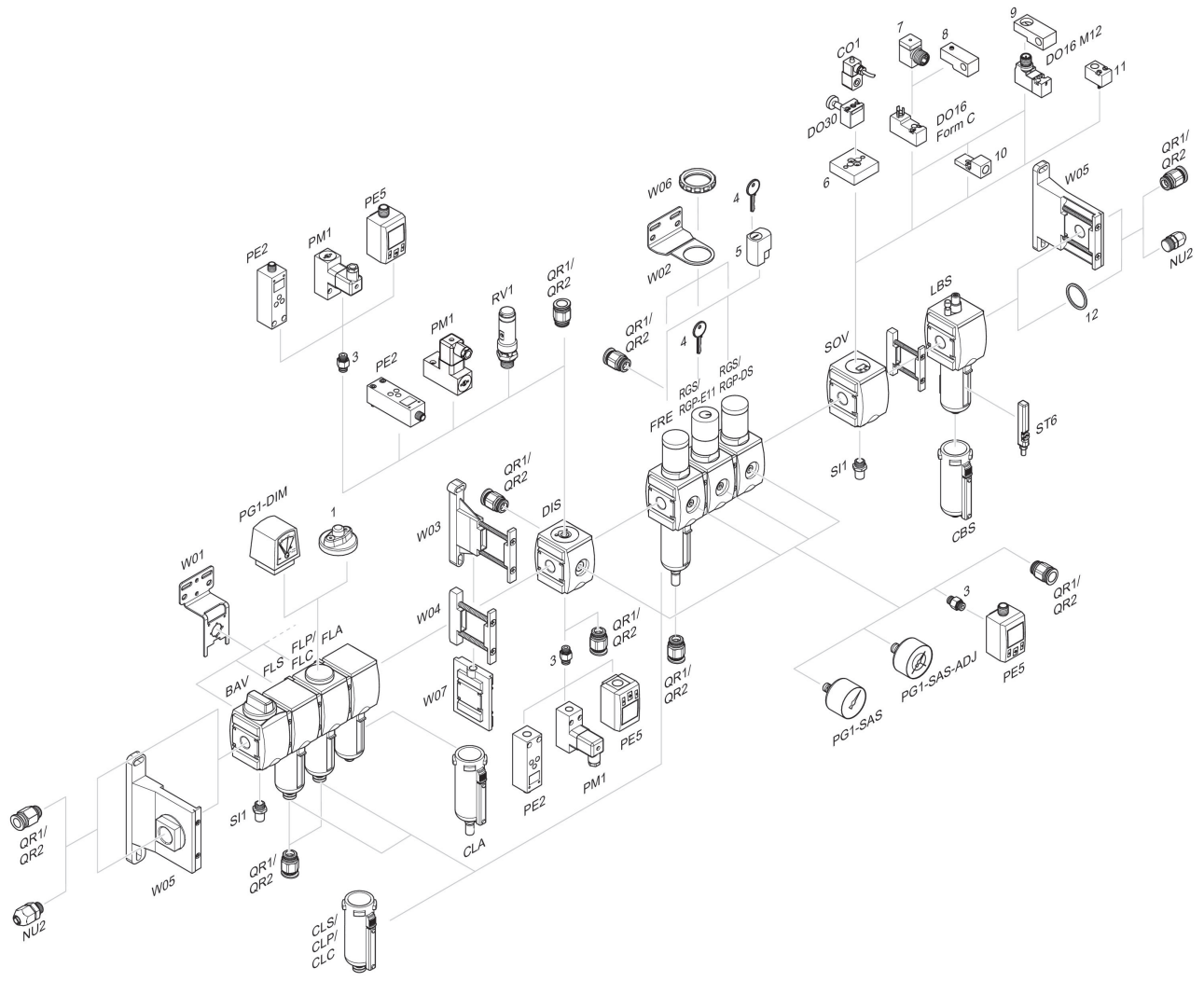
p2 = Secondary pressure
qn = Nominal flow

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

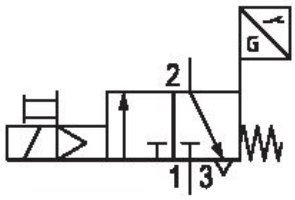
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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
Type	With position inquiry, with integrated sensor
Activation	Electrically
Nominal flow Qn	4500 l/min
Compressed air connection	G 3/8
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, 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	Plug
Electrical connection 2, thread size	M12x1
Electrical connection for sensor	Plug
Electrical connection for sensor	M12
Electrical connection for sensor	3-pin
Cable length sensor	0.3 m
Electrical connection for sensor	with knurled screw
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.	R412007355

Technical information

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

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

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

Can be used in circuits with increased efficiency.

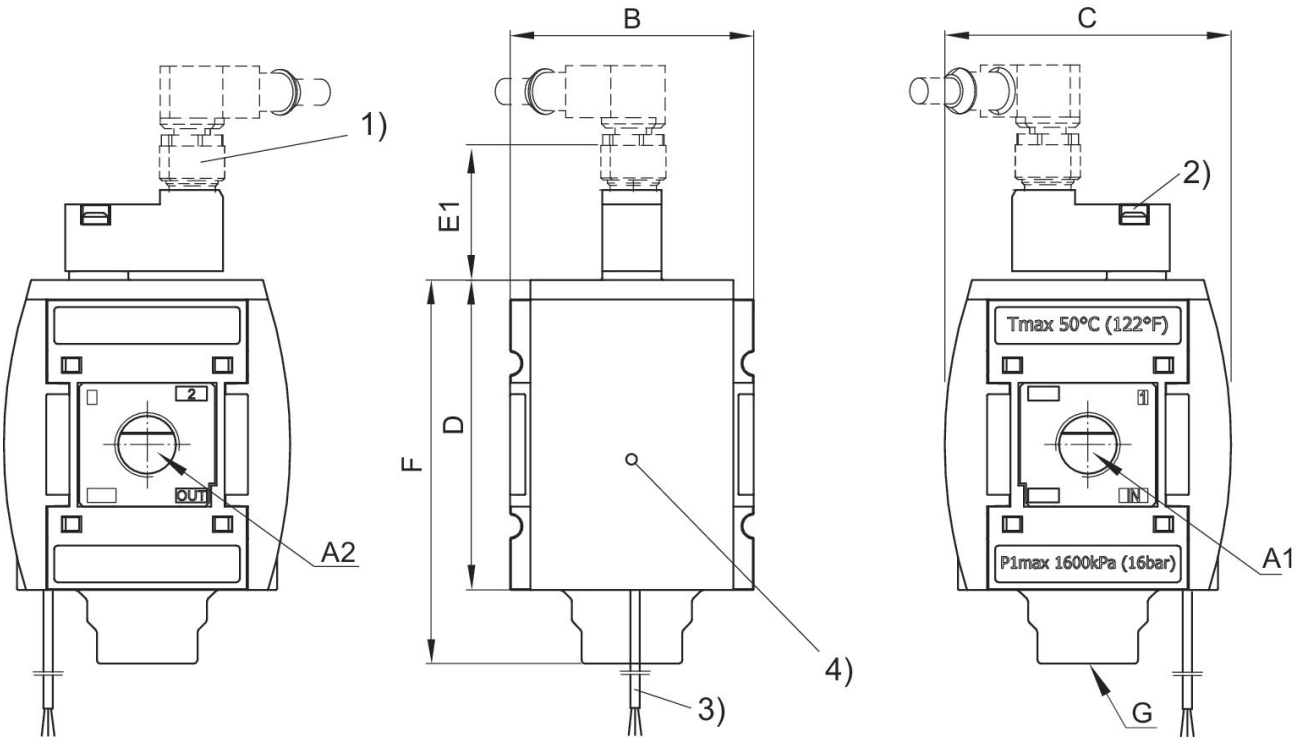
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

For sensor connection, see the selection table.

Dimensions

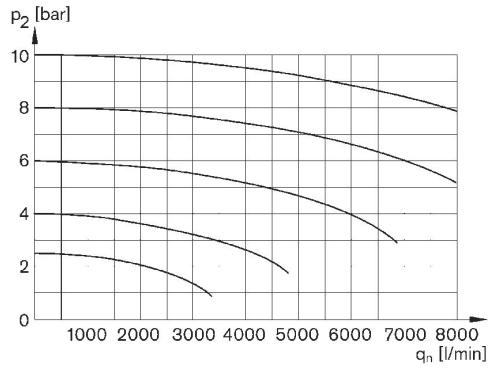


A1 = input
A2 = output
1) plug M12
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

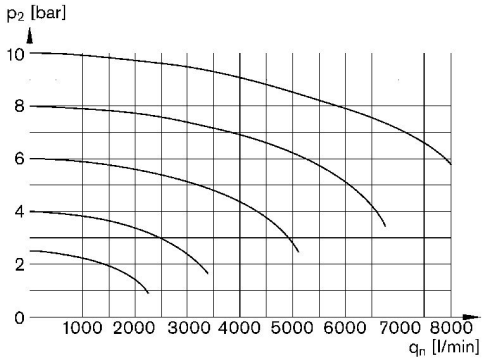
Part No.	A1	A2	B	C	D	E1	F	G
R412007355	G3/8	G3/8	63	74	80	39	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



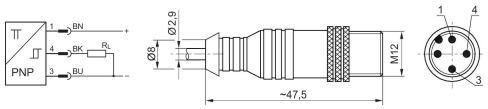
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



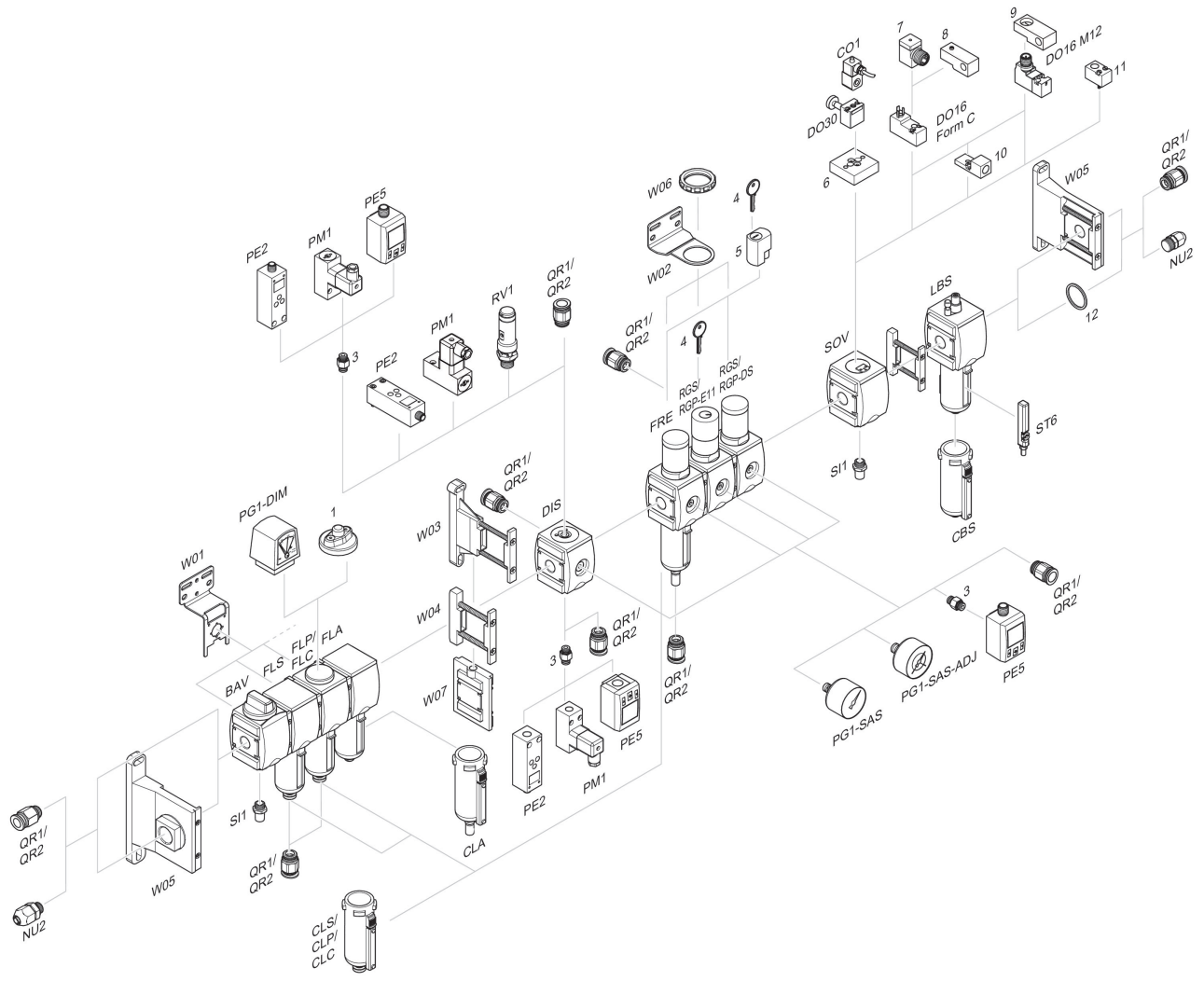
p2 = Secondary pressure
qn = Nominal flow

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

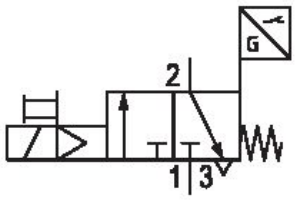
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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
Type	With position inquiry, with integrated sensor
Activation	Electrically
Nominal flow Qn	4500 l/min
Compressed air connection	G 1/2
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, 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	M12x1
Electrical connection for sensor	Plug
Electrical connection for sensor	M12
Electrical connection for sensor	3-pin
Cable length sensor	0.3 m
Electrical connection for sensor	with knurled screw
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.	R412007356

Technical information

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

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

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

Can be used in circuits with increased efficiency.

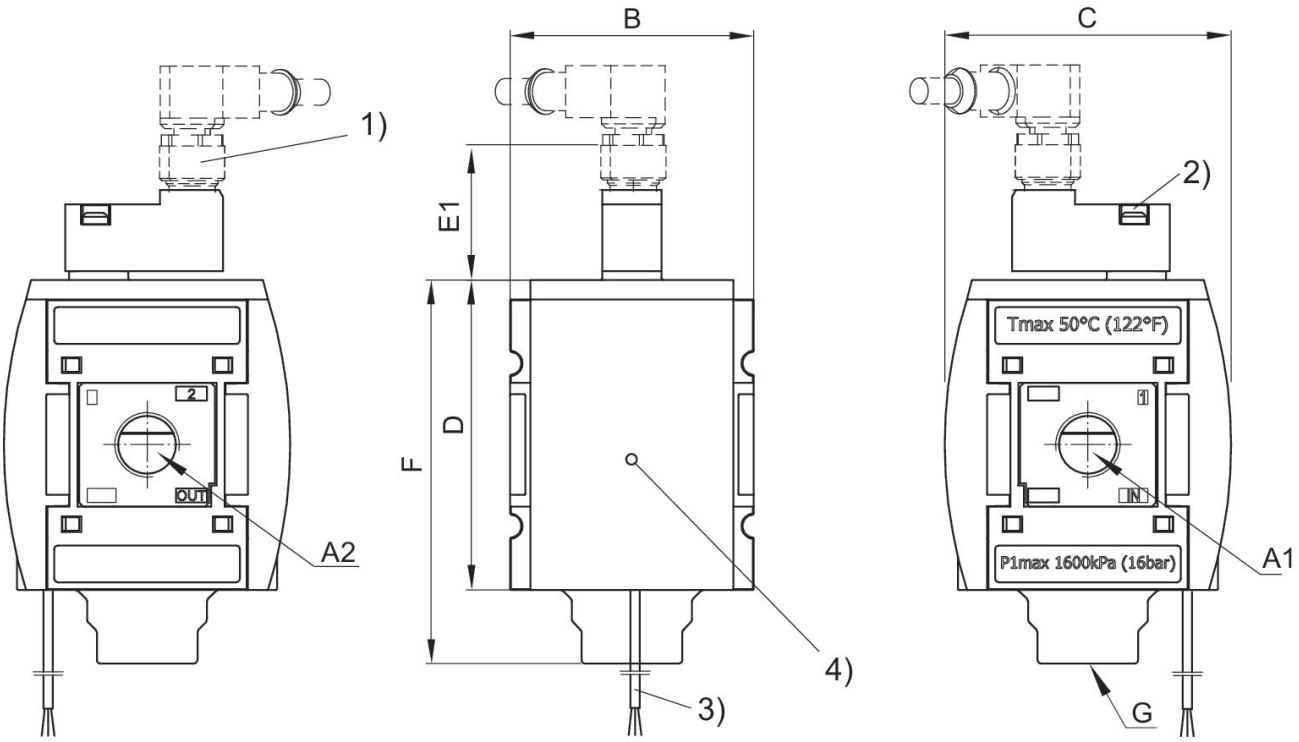
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

For sensor connection, see the selection table.

Dimensions

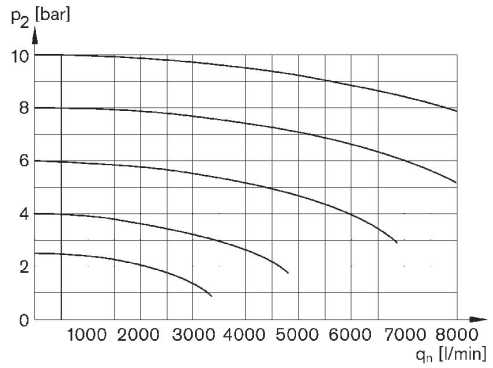


A1 = input
A2 = output
1) plug M12
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

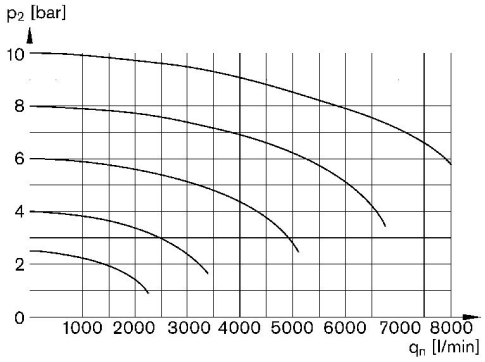
Part No.	A1	A2	B	C	D	E1	F	G
R412007356	G1/2	G1/2	63	74	80	39	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



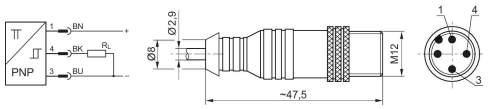
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



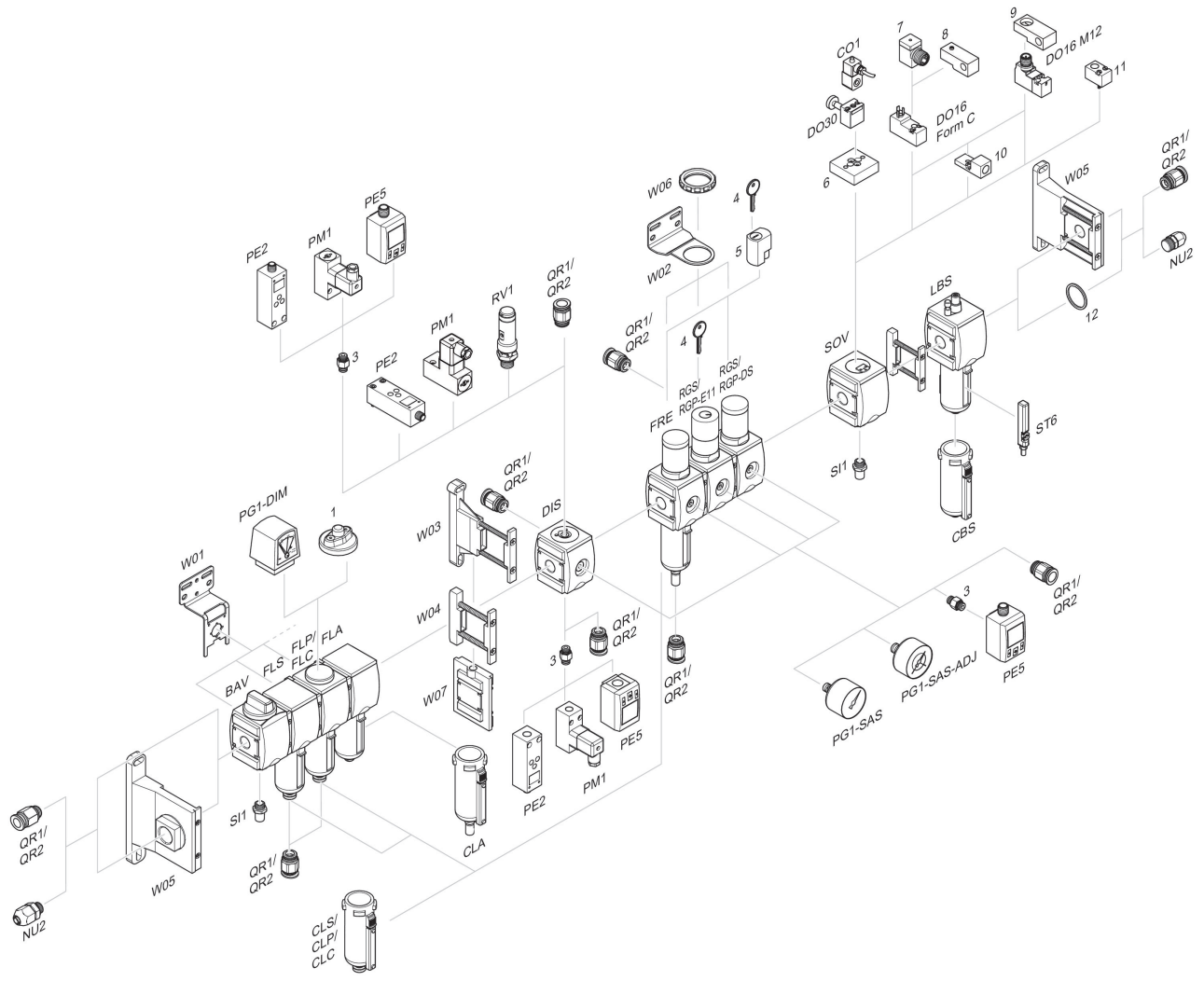
p2 = Secondary pressure
qn = Nominal flow

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

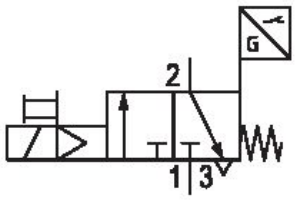
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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

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
Plug

Electrical connection for sensor
M8

Electrical connection for sensor
3-pin

Cable length sensor
0.3 m

Electrical connection for sensor
with knurled screw

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.
R412007359

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.

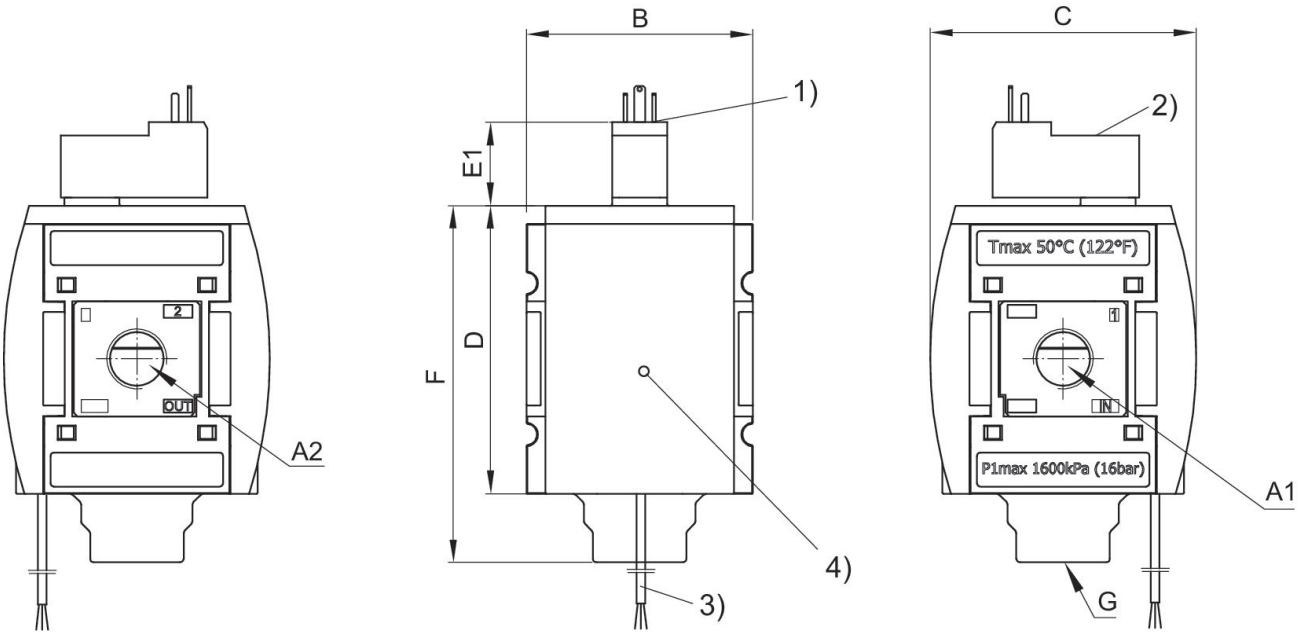
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

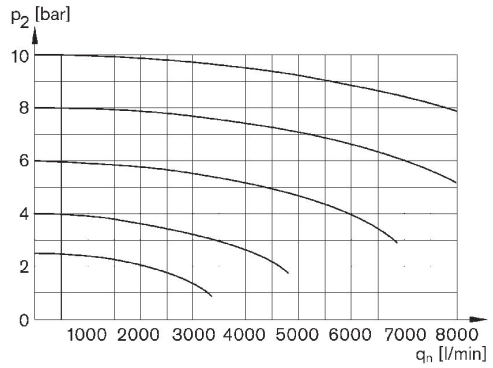


A1 = input
A2 = output
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

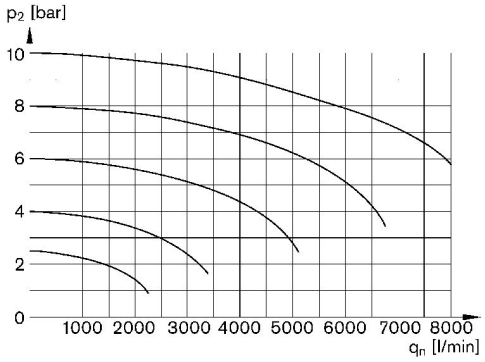
Part No.	A1	A2	B	C	D	E1	F	G
R412007359	G1/2	G3/8	63	74	80	23.2	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



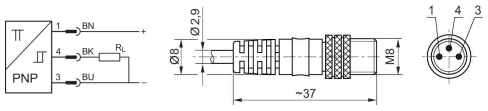
p2 = secondary pressure
qn = nominal flow

Rear exhaust



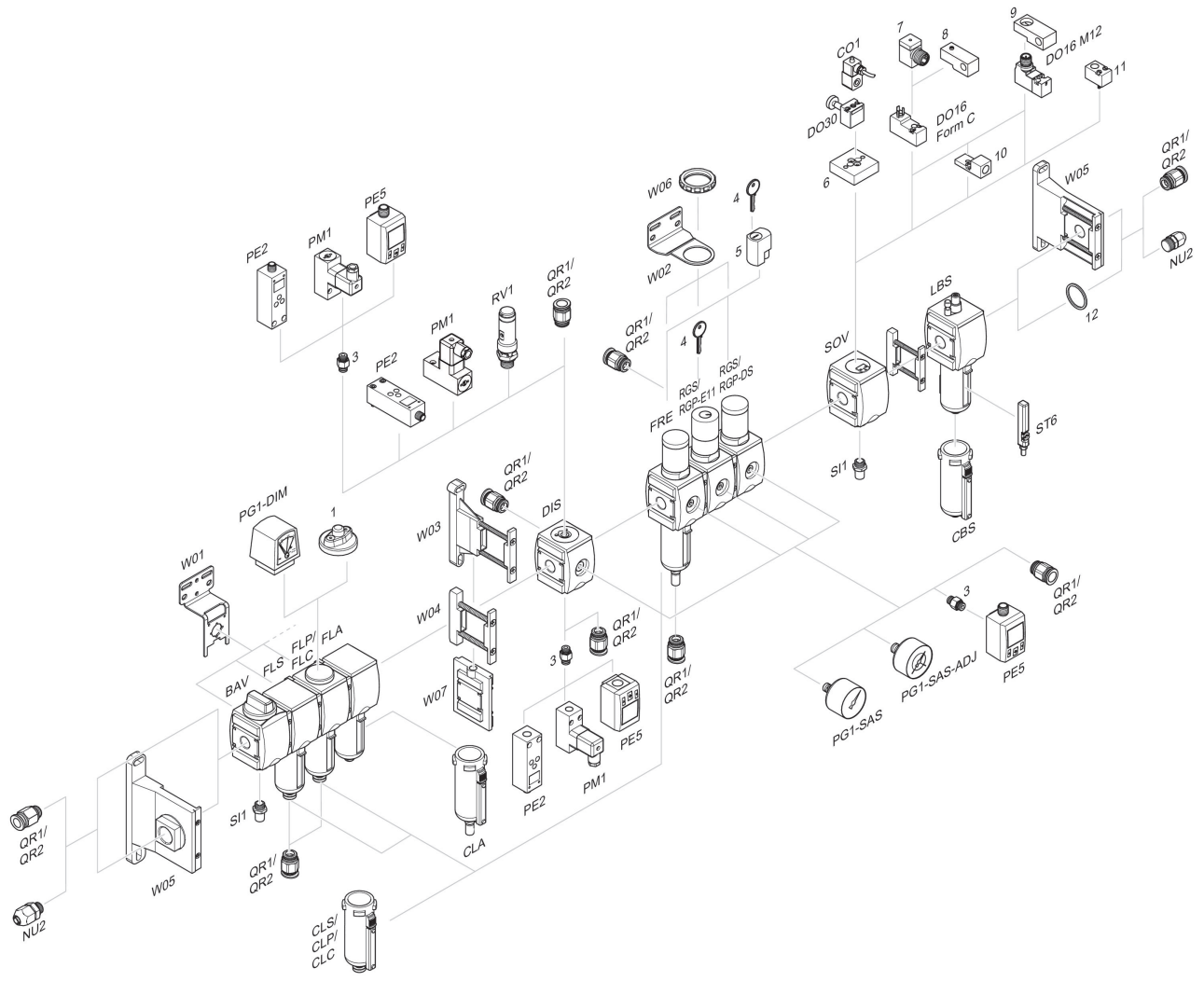
p2 = secondary pressure
qn = nominal flow

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

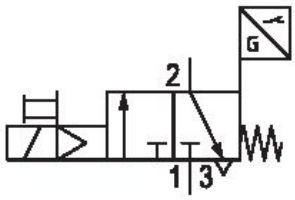
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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 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
Plug

Electrical connection 2, thread size
ISO 15217, form C

Electrical connection for sensor
Plug

Electrical connection for sensor
M8

Electrical connection for sensor
3-pin

Cable length sensor
0.3 m

Electrical connection for sensor
with knurled screw

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.
R412007360

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.

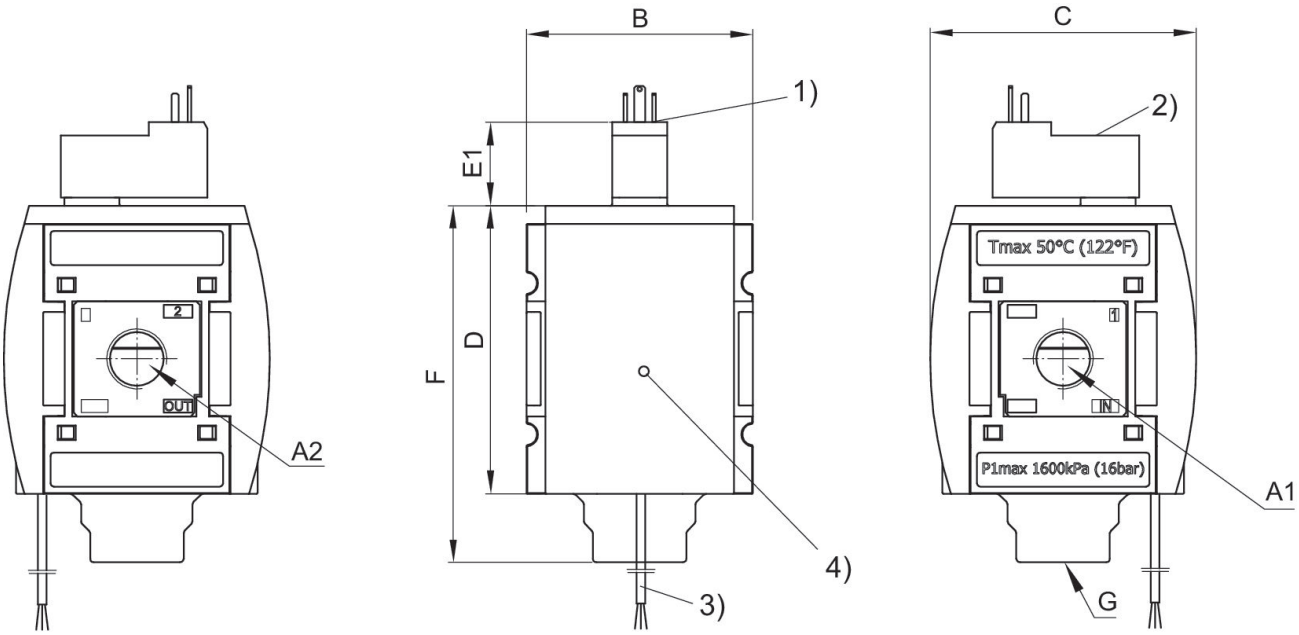
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

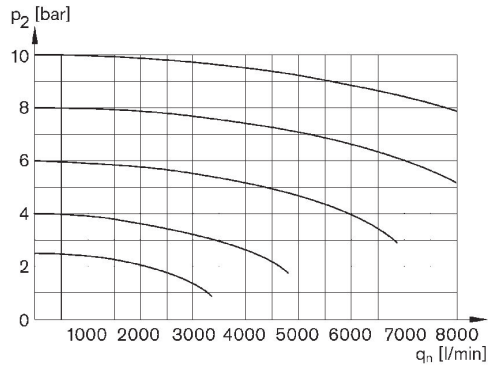


A1 = input
A2 = output
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

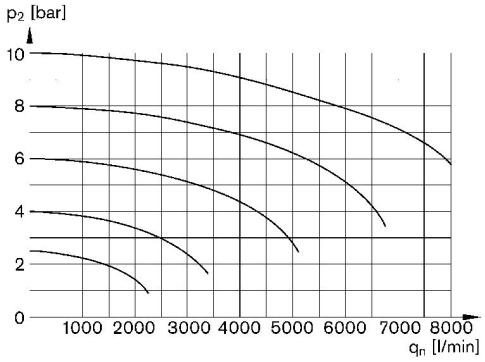
Part No.	A1	A2	B	C	D	E1	F	G
R412007360	G1/2	G1/2	63	74	80	23.2	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



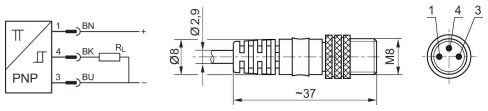
p2 = secondary pressure
qn = nominal flow

Rear exhaust



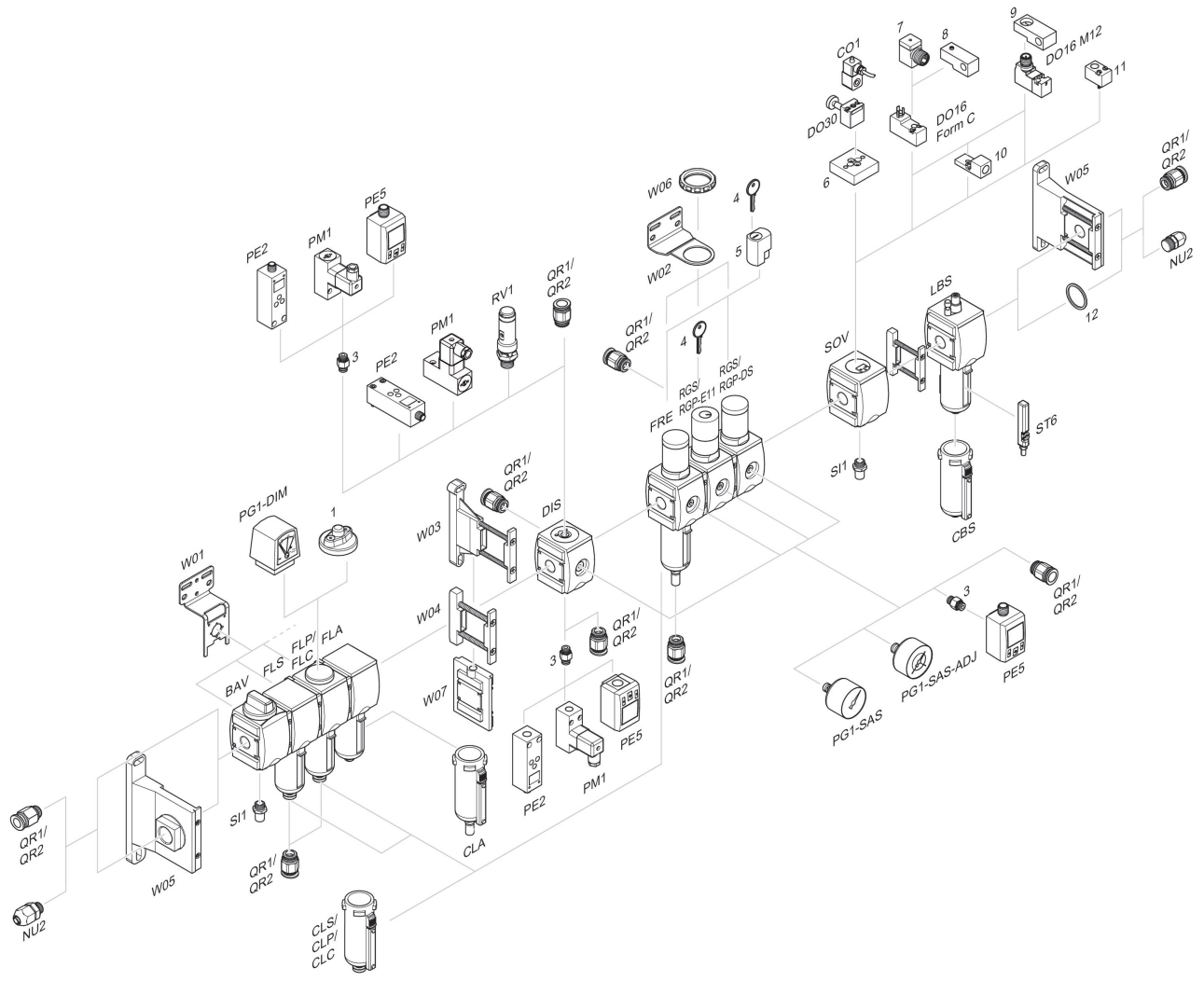
p2 = secondary pressure
qn = nominal flow

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

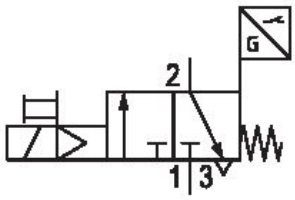
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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 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 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.

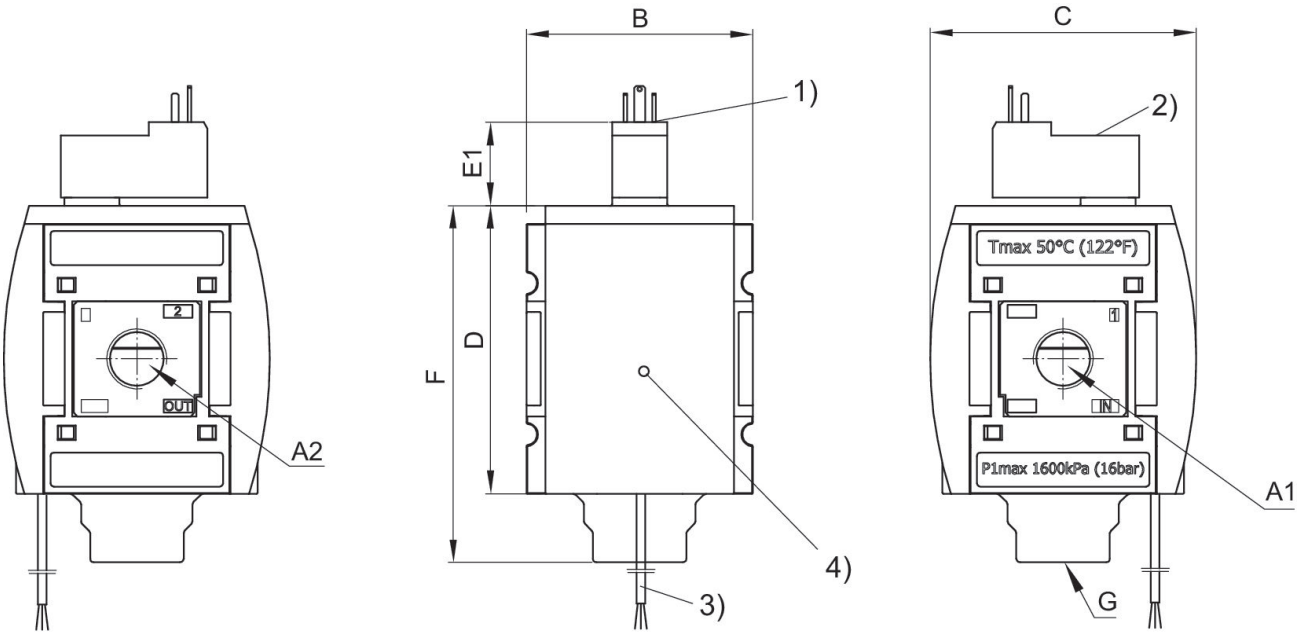
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

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

Dimensions

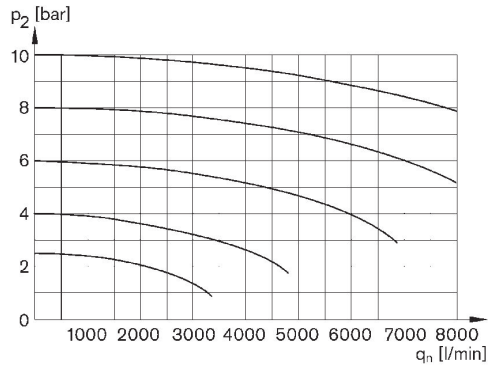


A1 = input
A2 = output
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

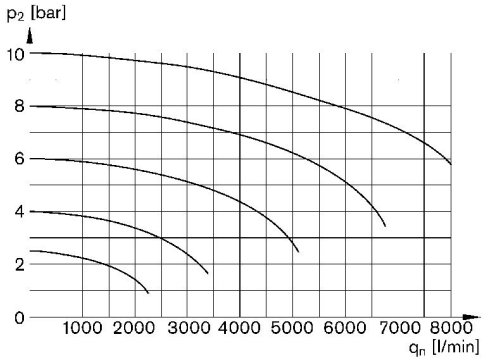
Part No.	A1	A2	B	C	D	E1	F	G
R412007377	G3/8	G3/8	63	74	80	23.2	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



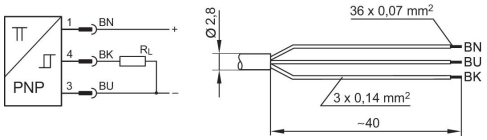
p2 = secondary pressure
qn = nominal flow

Rear exhaust



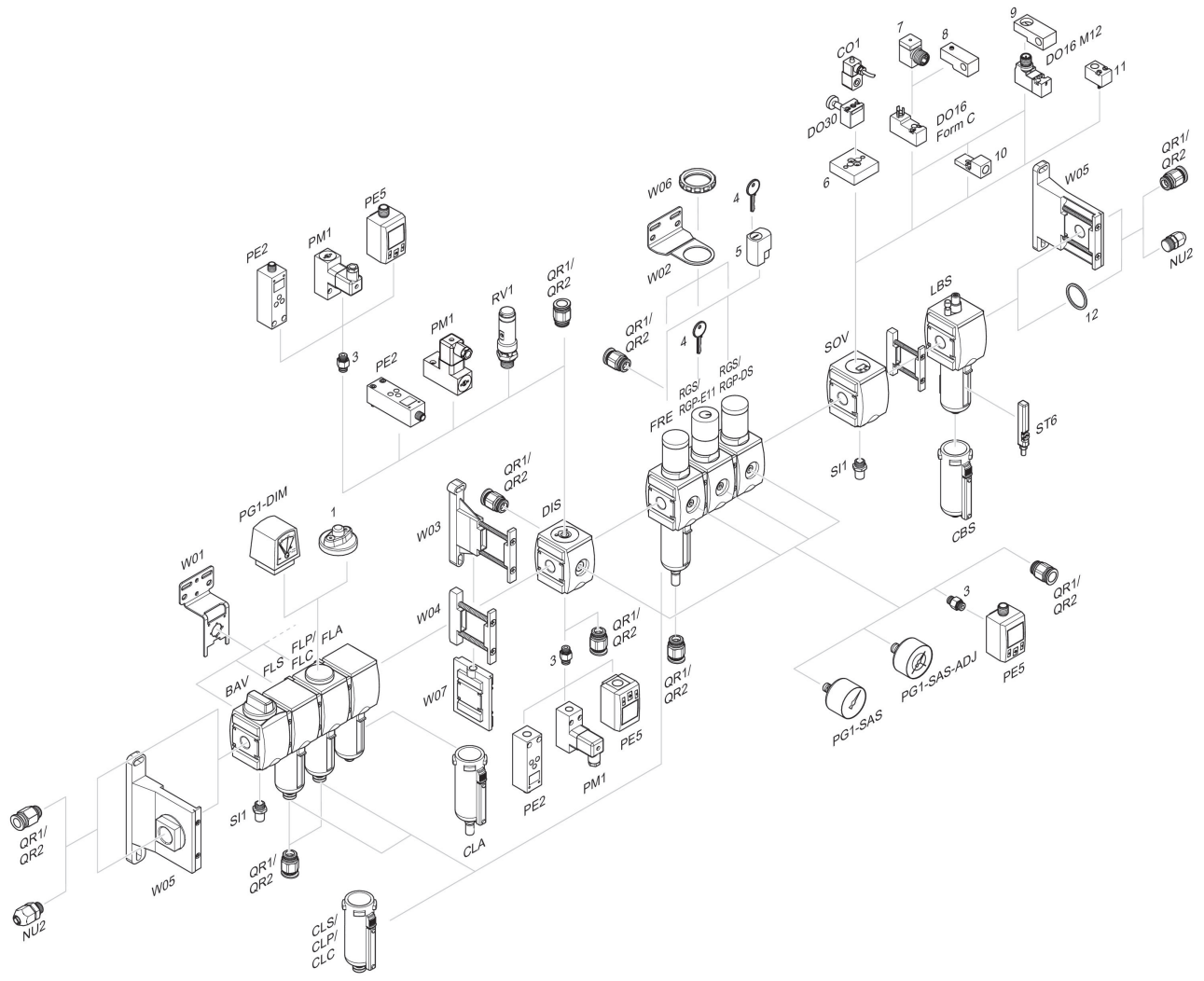
p2 = secondary pressure
qn = nominal flow

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

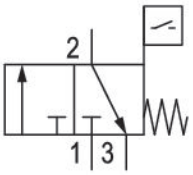
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007381

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
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.

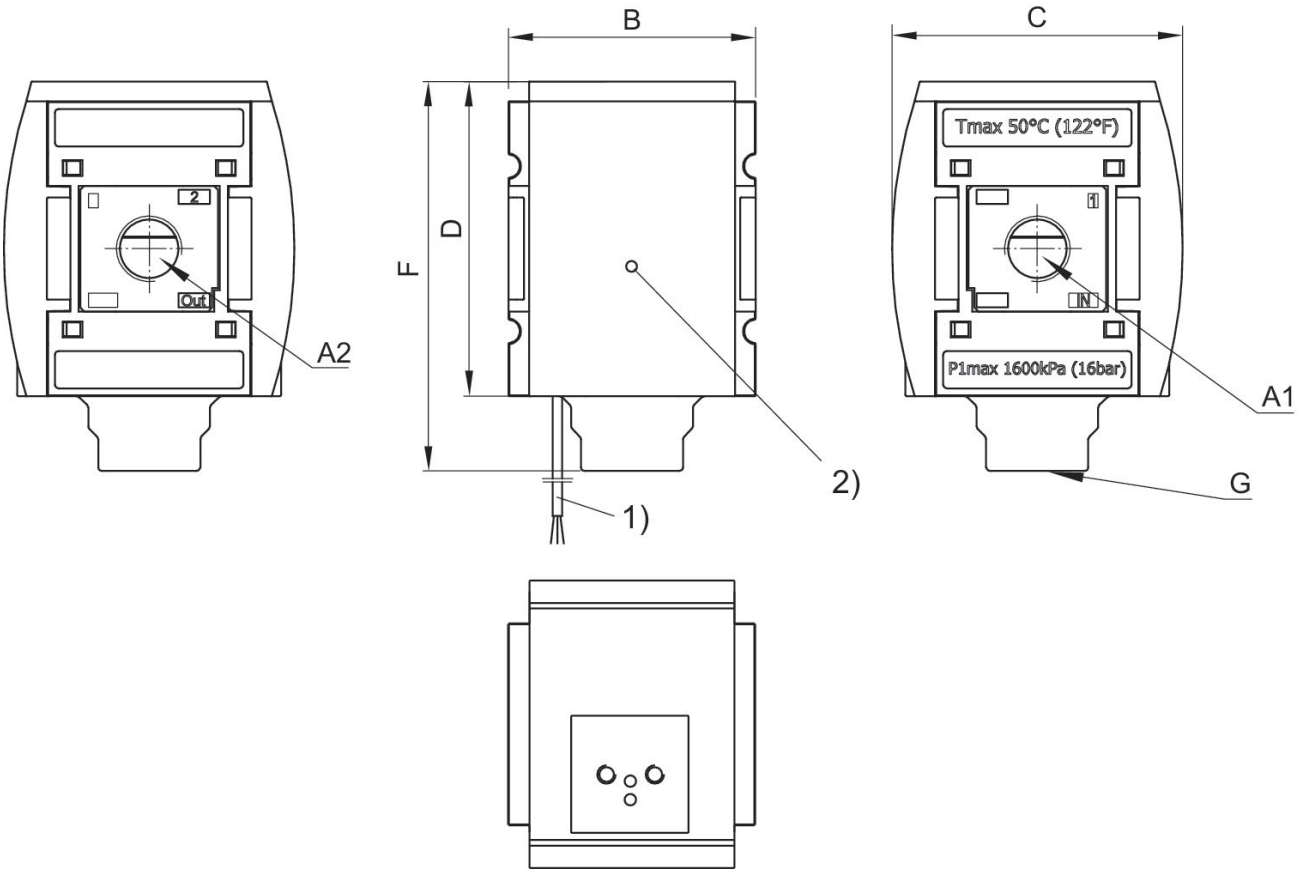
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

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

Dimensions

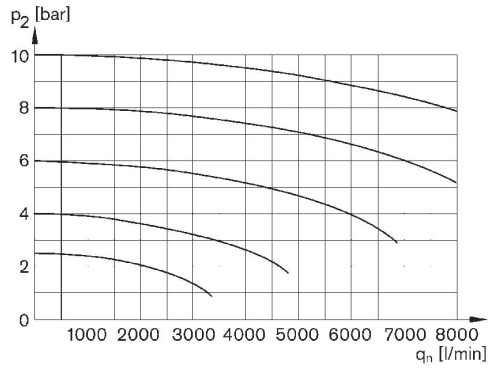


A1 = input
A2 = output
1) Connection cable
2) Optical switch status indicator

Dimensions in mm

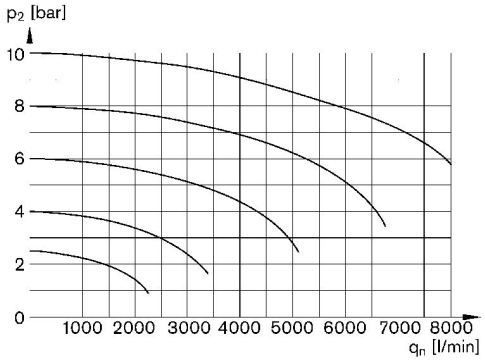
Part No.	A1	A2	B	C	D	F	G
R412007381	G3/8	G3/8	63	74	80	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



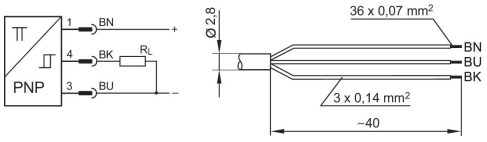
p2 = secondary pressure
qn = nominal flow

Rear exhaust



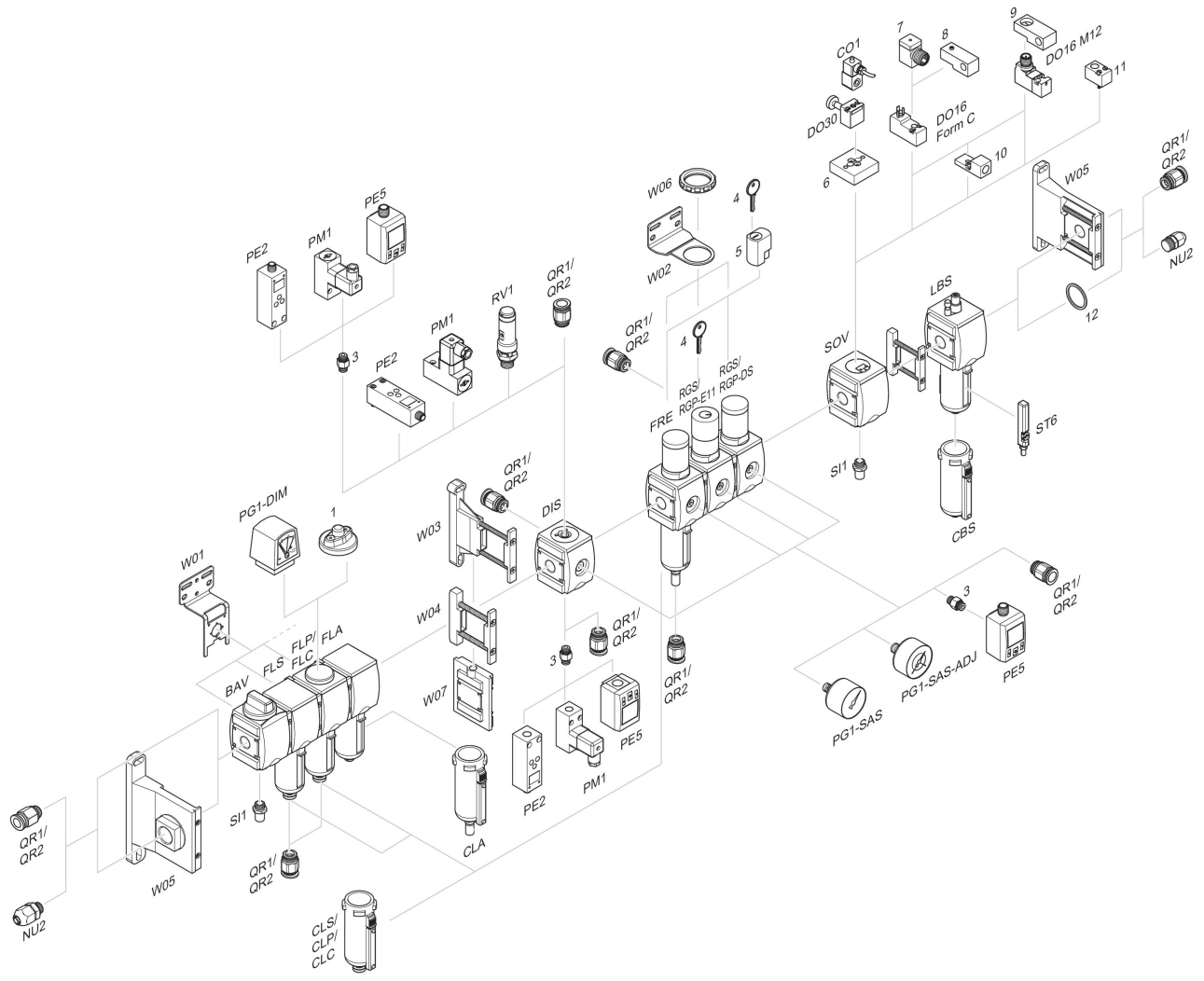
p2 = secondary pressure
qn = nominal flow

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

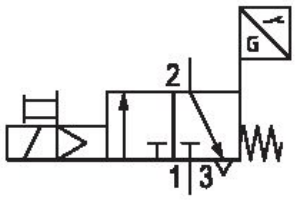
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007383

General series information
Series AS3

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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.

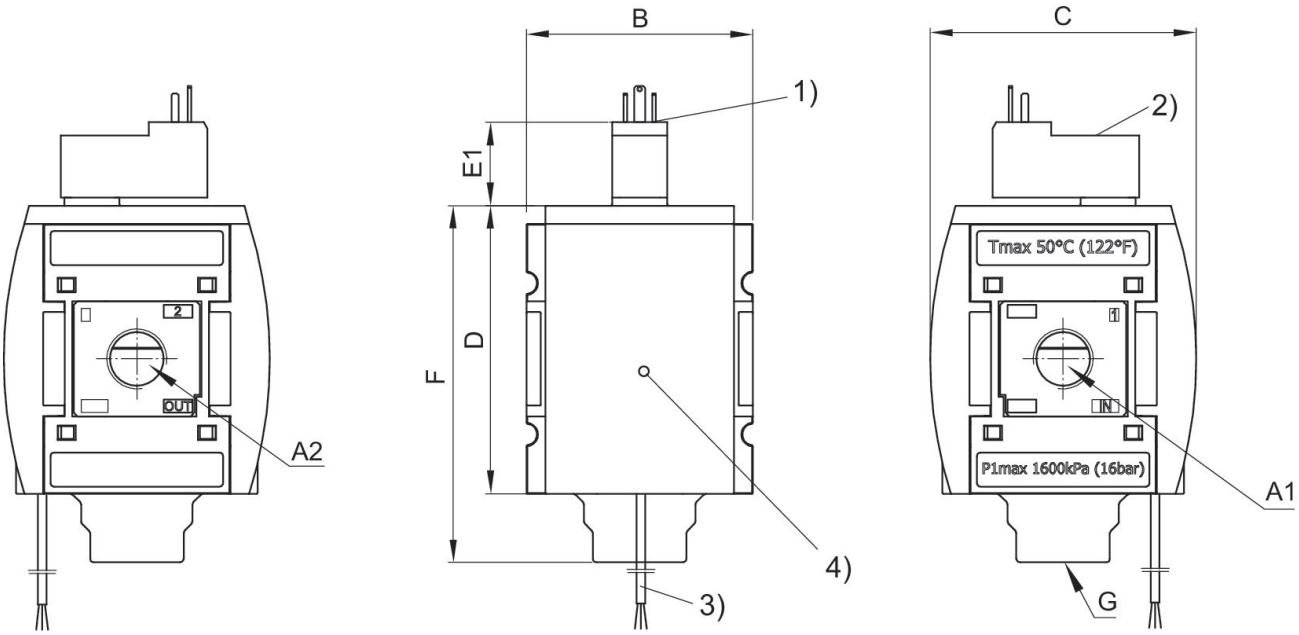
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

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

Dimensions

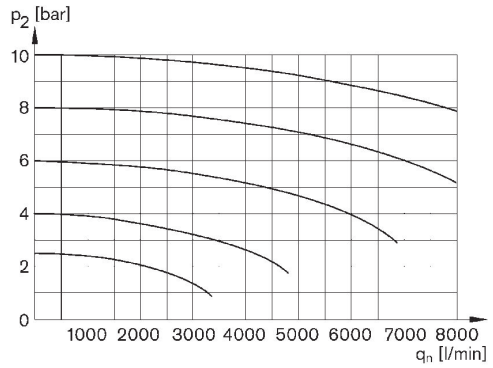


A1 = input
A2 = output
1) Electr. connection: valve plug connector form C, ISO 15217
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

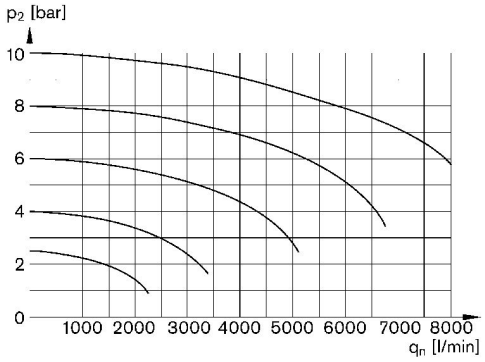
Part No.	A1	A2	B	C	D	E1	F	G
R412007383	G1/2	G1/2	63	74	80	23.2	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



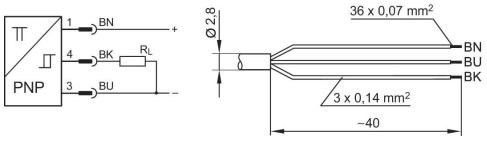
p2 = secondary pressure
qn = nominal flow

Rear exhaust



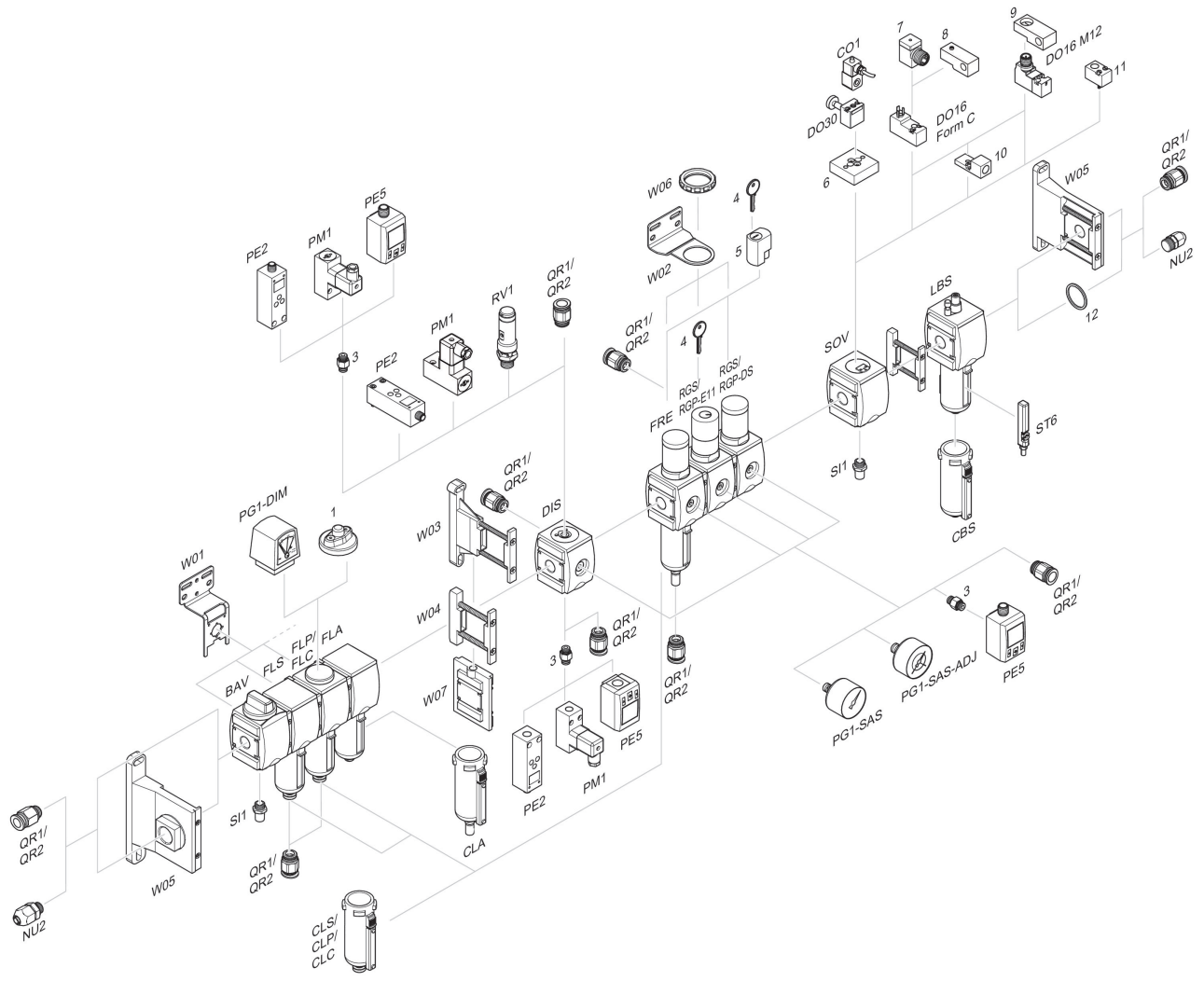
p2 = secondary pressure
qn = nominal flow

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

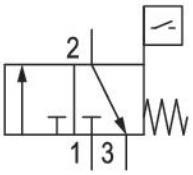
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

R412007387

General series information
Series AS3

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Technical data

Industry
Industrial

Activation
Electrically

Nominal flow Qn
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 .

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Can be used in circuits with increased efficiency.

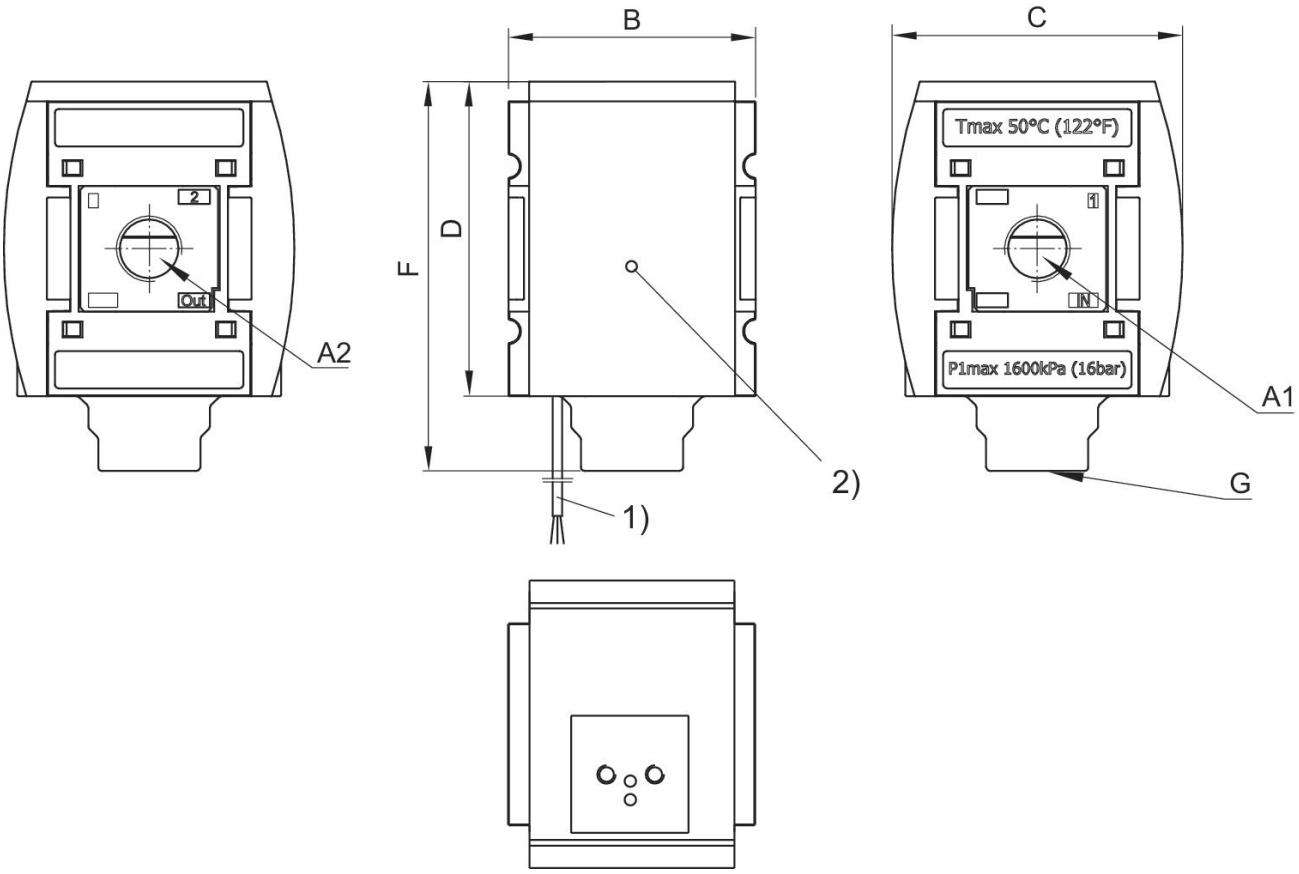
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The sensor signal is visible on the front of the cover.

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

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

Dimensions

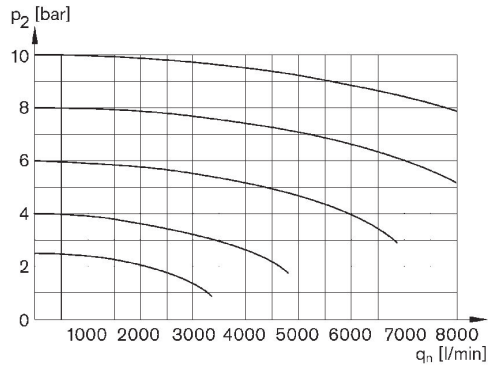


A1 = input
A2 = output
1) Connection cable
2) Optical switch status indicator

Dimensions in mm

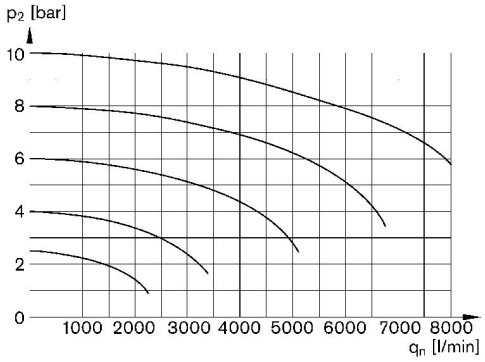
Part No.	A1	A2	B	C	D	F	G
R412007387	G1/2	G1/2	63	74	80	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



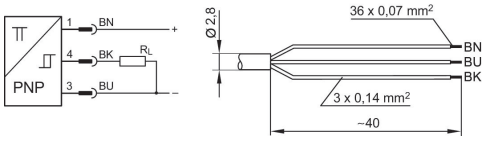
p2 = secondary pressure
qn = nominal flow

Rear exhaust



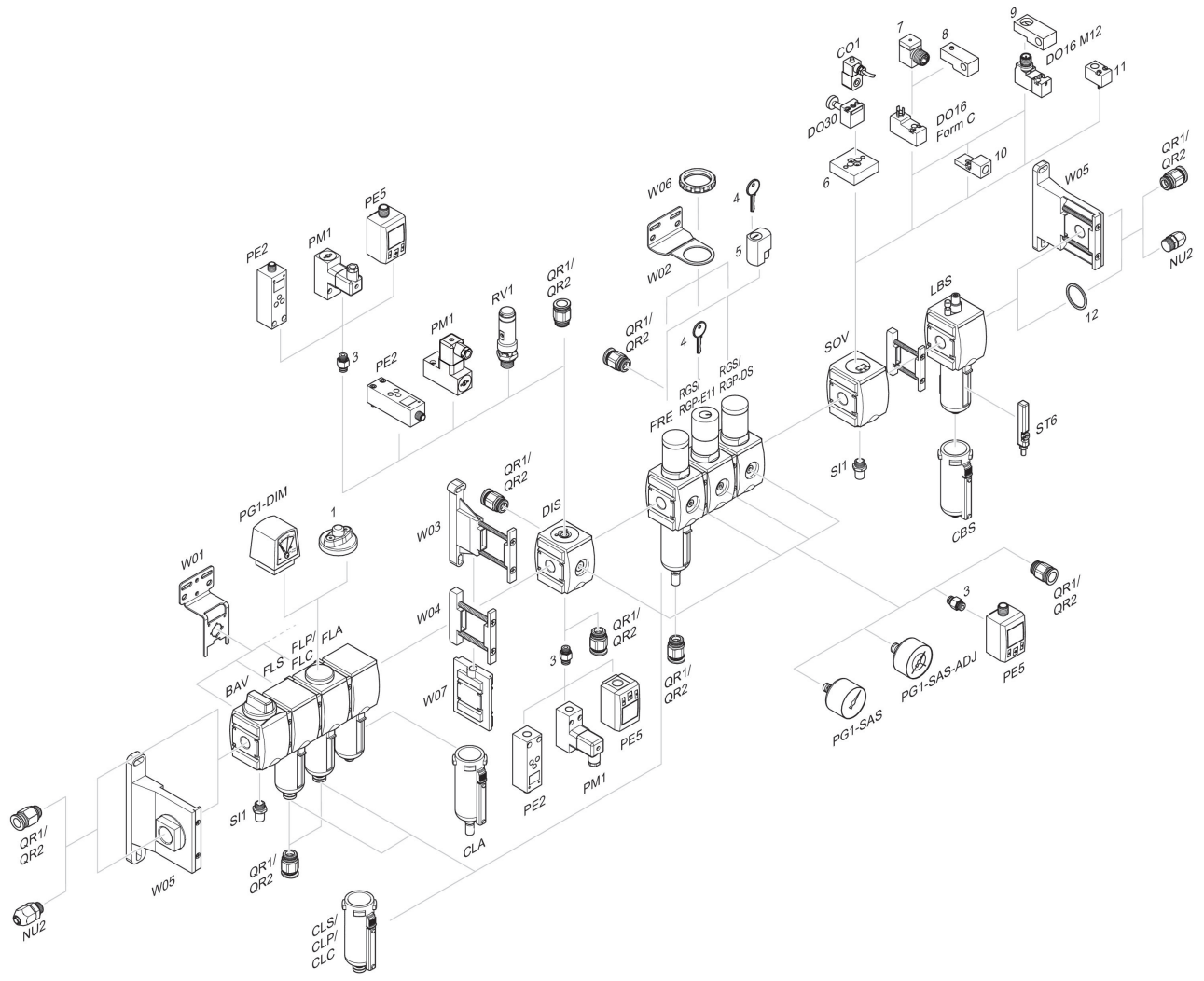
p2 = secondary pressure
qn = nominal flow

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

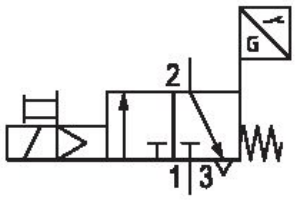
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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
Type	With position inquiry, with integrated sensor
Activation	Electrically
Nominal flow Qn	4500 l/min
Compressed air connection	G 3/8
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, 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	Plug
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 less than ambient and medium temperature and may not exceed 3 °C.

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

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

Can be used in circuits with increased efficiency.

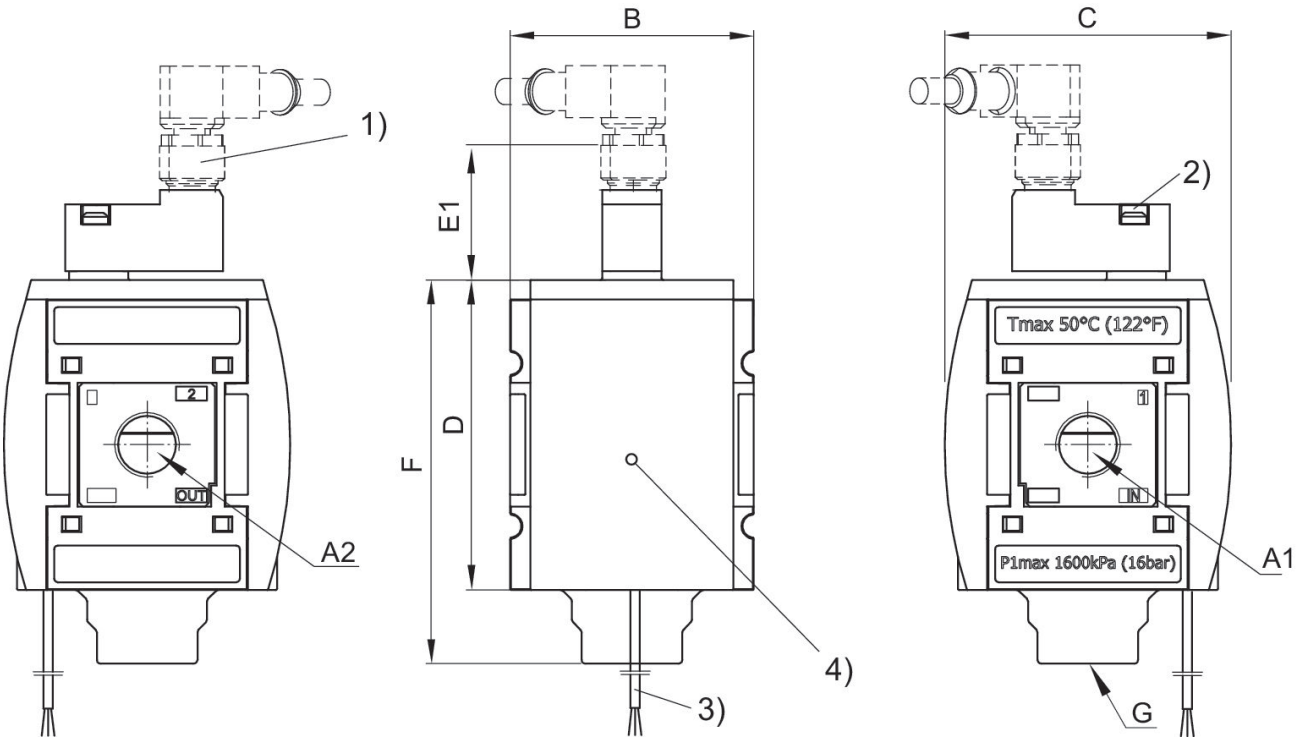
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

For sensor connection, see the selection table.

Dimensions

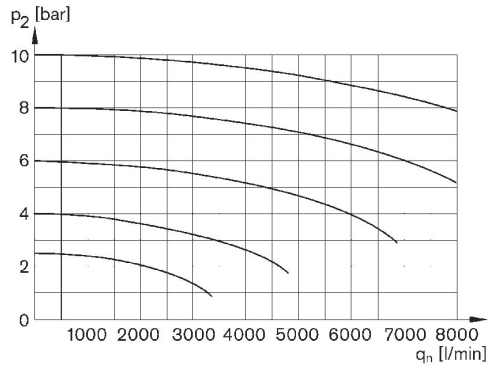


A1 = input
A2 = output
1) plug M12
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

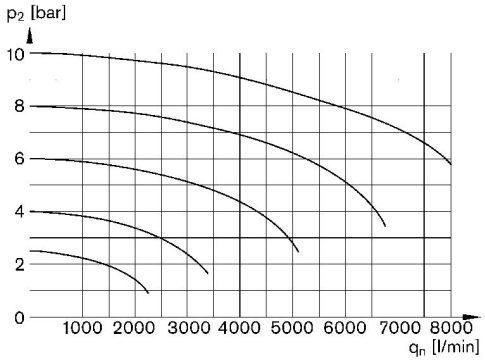
Part No.	A1	A2	B	C	D	E1	F	G
R412007396	G3/8	G3/8	63	74	80	39	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



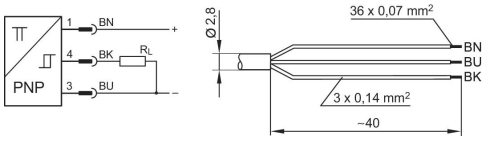
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



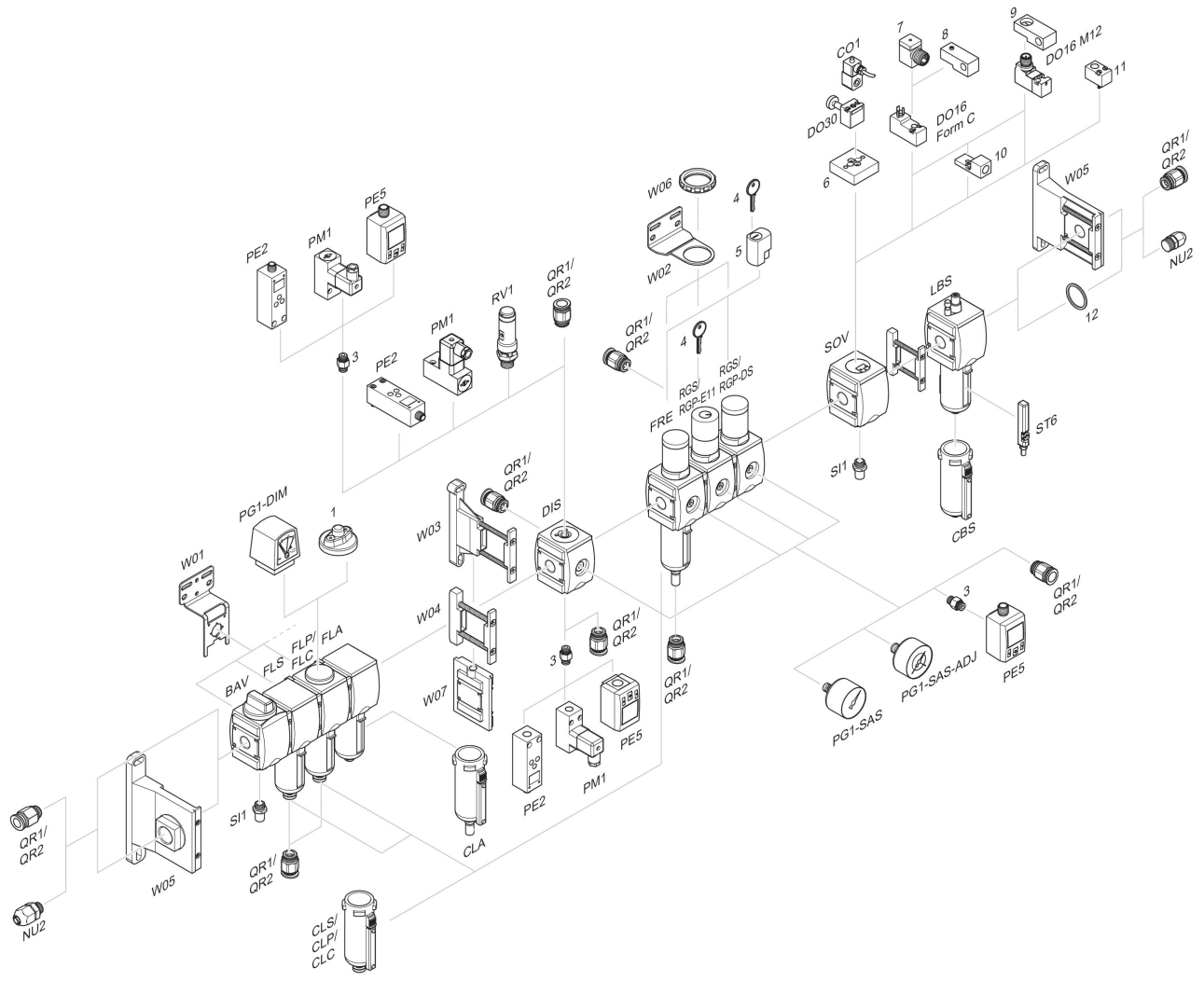
p2 = Secondary pressure
qn = Nominal flow

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

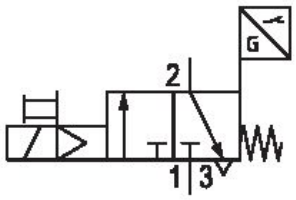
3/2-directional valve, electrically operated, Series AS3-SOV-...-POS

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
Type	With position inquiry, with integrated sensor
Activation	Electrically
Nominal flow Qn	4500 l/min
Compressed air connection	G 1/2
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, 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	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 less than ambient and medium temperature and may not exceed 3 °C.

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

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

Can be used in circuits with increased efficiency.

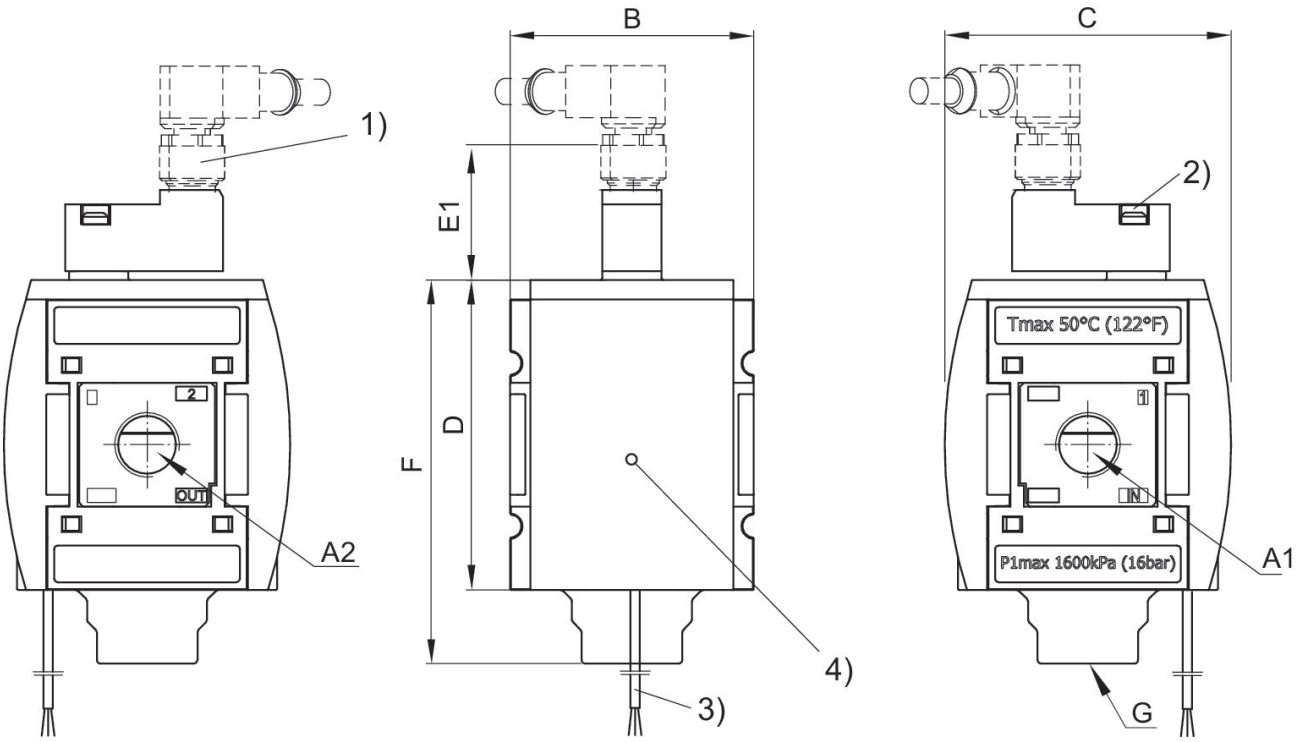
An ST6 sensor (contactless) is used to detect the switching position in the non-actuated state (position: exhaust).

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

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

For sensor connection, see the selection table.

Dimensions

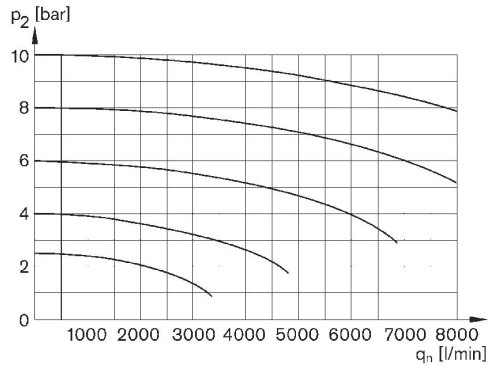


A1 = input
A2 = output
1) plug M12
2) Manual override
3) Connection cable
4) Optical switch status indicator

Dimensions in mm

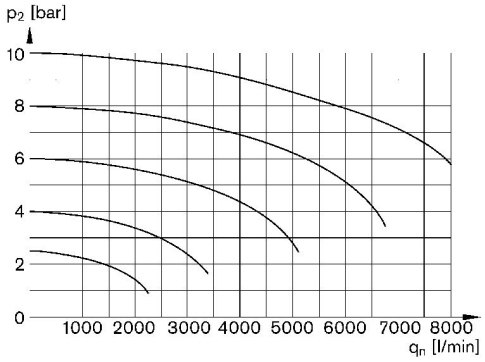
Part No.	A1	A2	B	C	D	E1	F	G
R412007398	G1/2	G1/2	63	74	80	39	99	G1/2

Flow rate characteristic, p2 = 0,05 - 7 bar



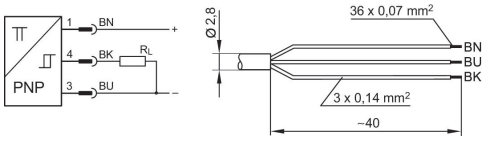
p2 = Secondary pressure
qn = Nominal flow

Rear exhaust



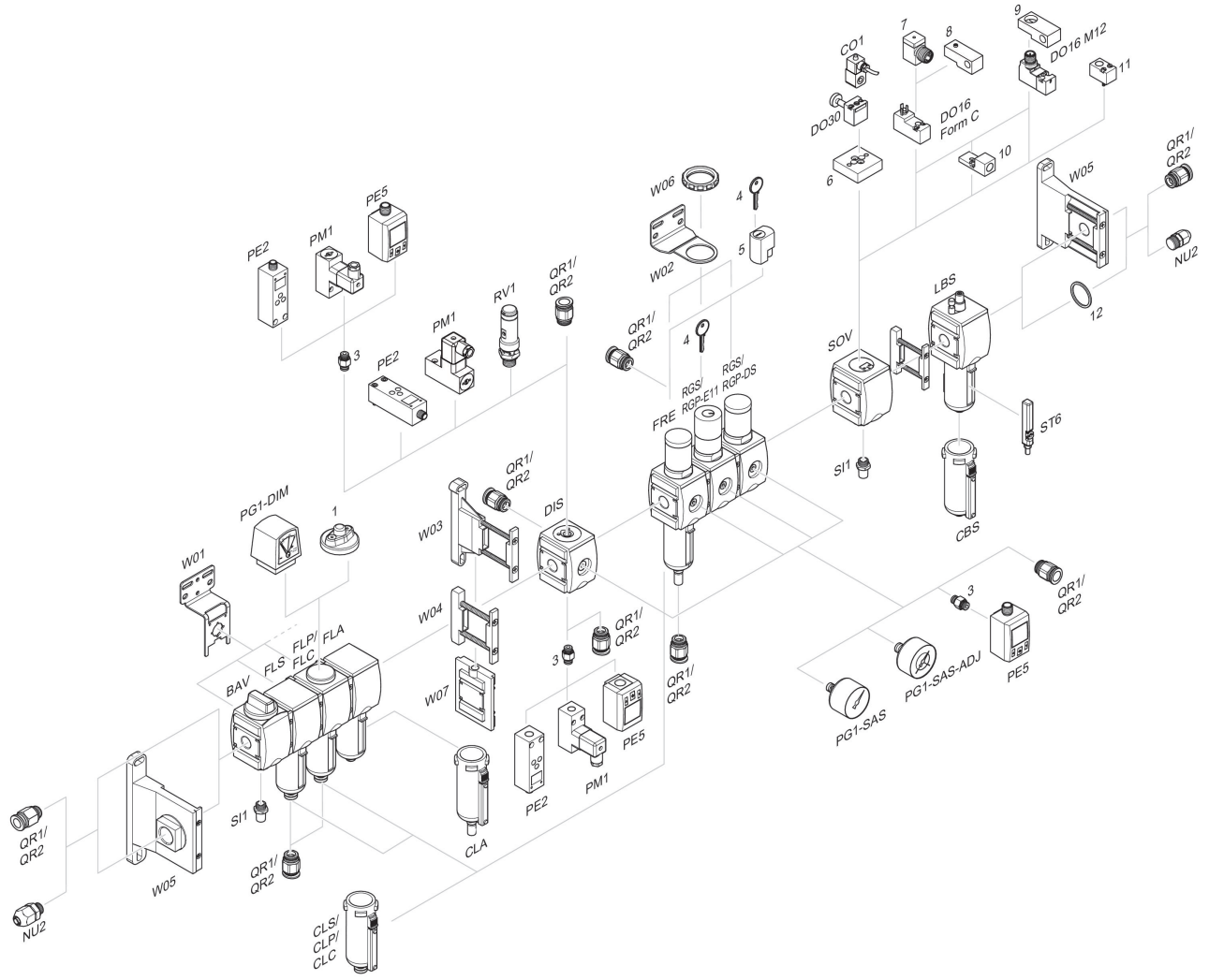
p2 = Secondary pressure
qn = Nominal flow

Sensor pin assignment, tin-plated wire ends



BN = brown
BK = black
BU = blue

Accessories overview

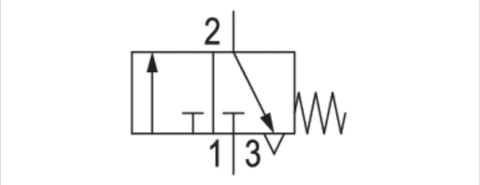


1 = contamination display 3 = Double nipple 4 = Key for E11 locking 5 = mortise lock 6 = Transition plate DO30 7 = Adapter, Series CON-VP 8 = Mounting aid DO16, form C 9 = Mounting aid DO16, M12 10 = Adapter for external pilot air 11 = Adapter pneumatic operation 12 = Sealing ring

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

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





Version	Poppet valve, Can be assembled into blocks
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
Weight	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.

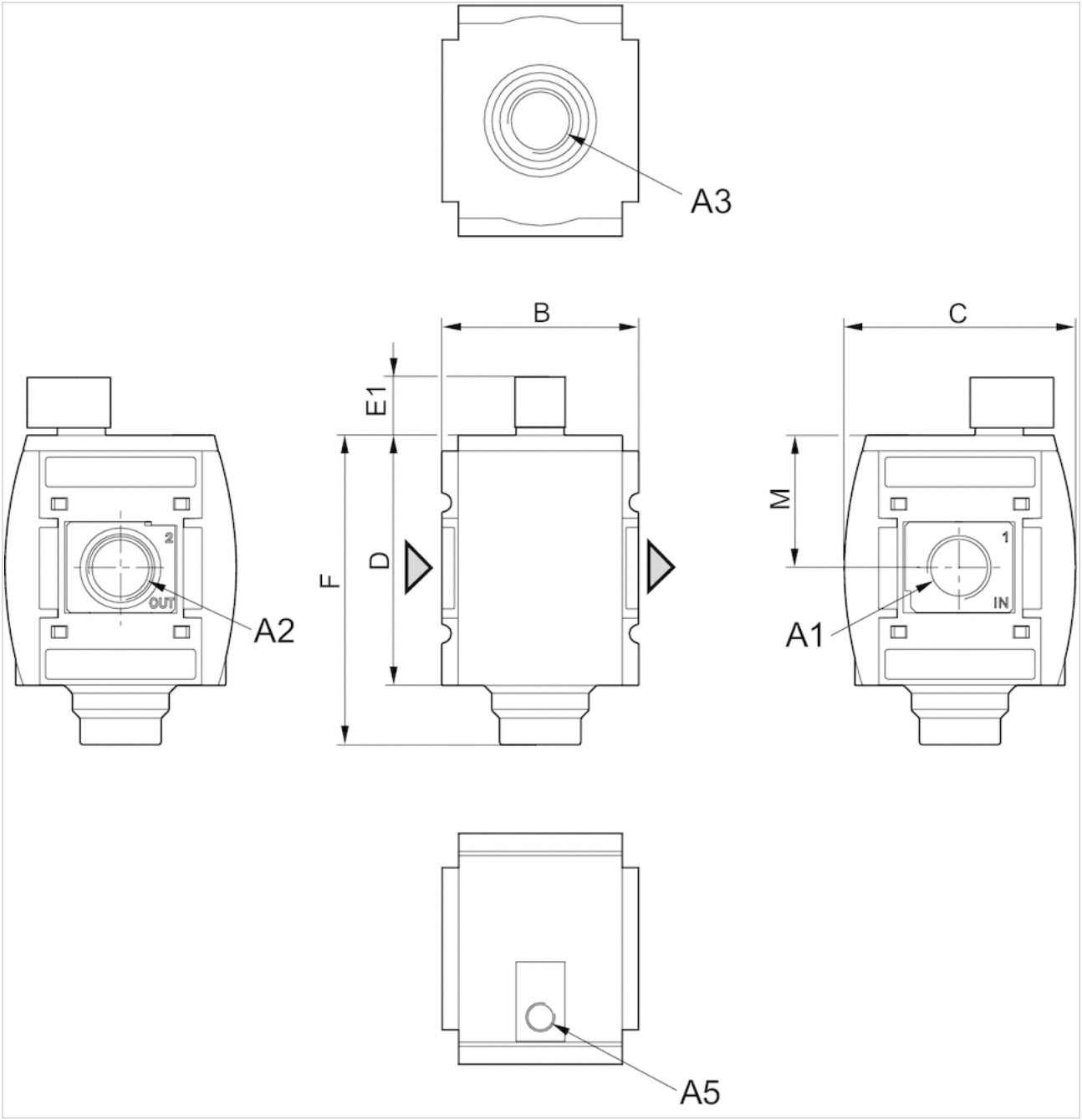
Technical information

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

Material	
Threaded bushing	Die cast zinc

Dimensions

Dimensions



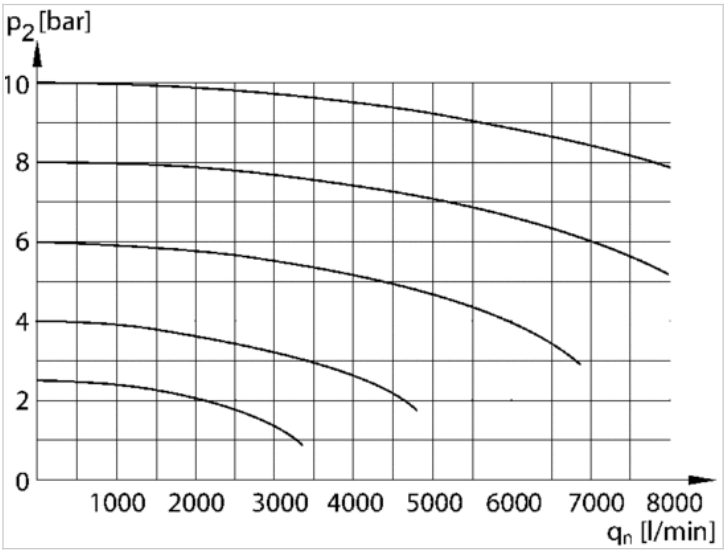
A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection

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

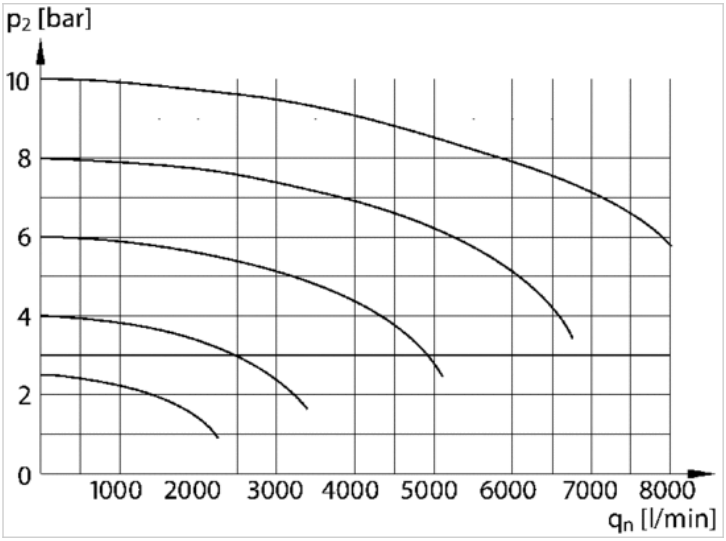
Diagrams

Flow rate characteristic



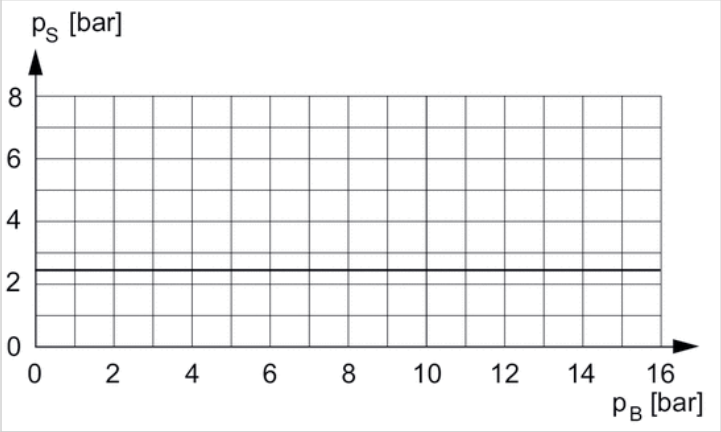
p2 = secondary pressure
qn = nominal flow

Rear exhaust



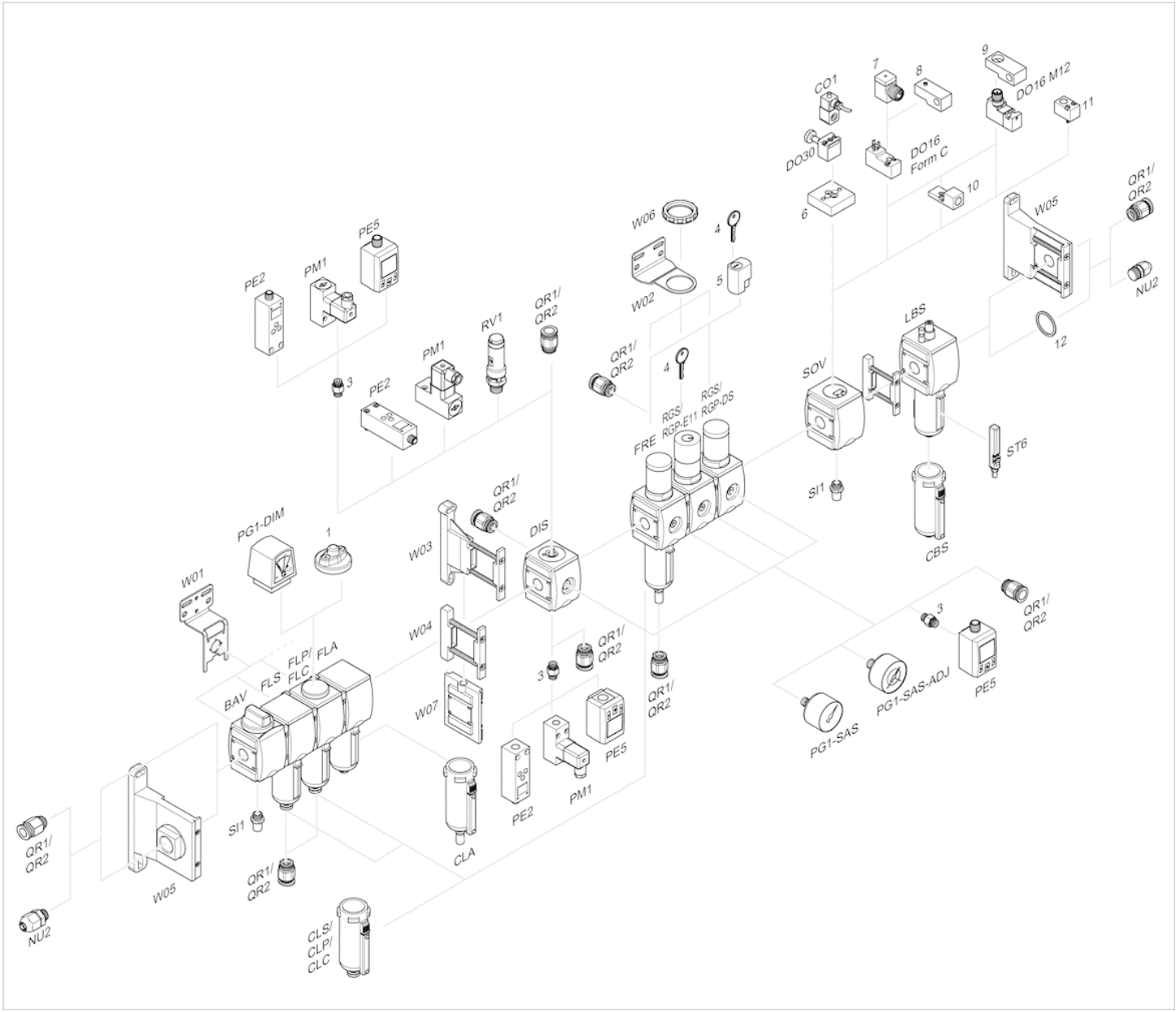
p2 = secondary pressure
qn = nominal flow

control pressure characteristic



minimum pilot pressure depending on working pressure
PS = control pressure
PB= Working pressure

Accessories overview

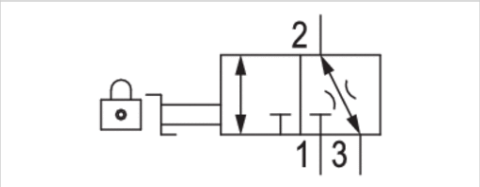


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

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	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

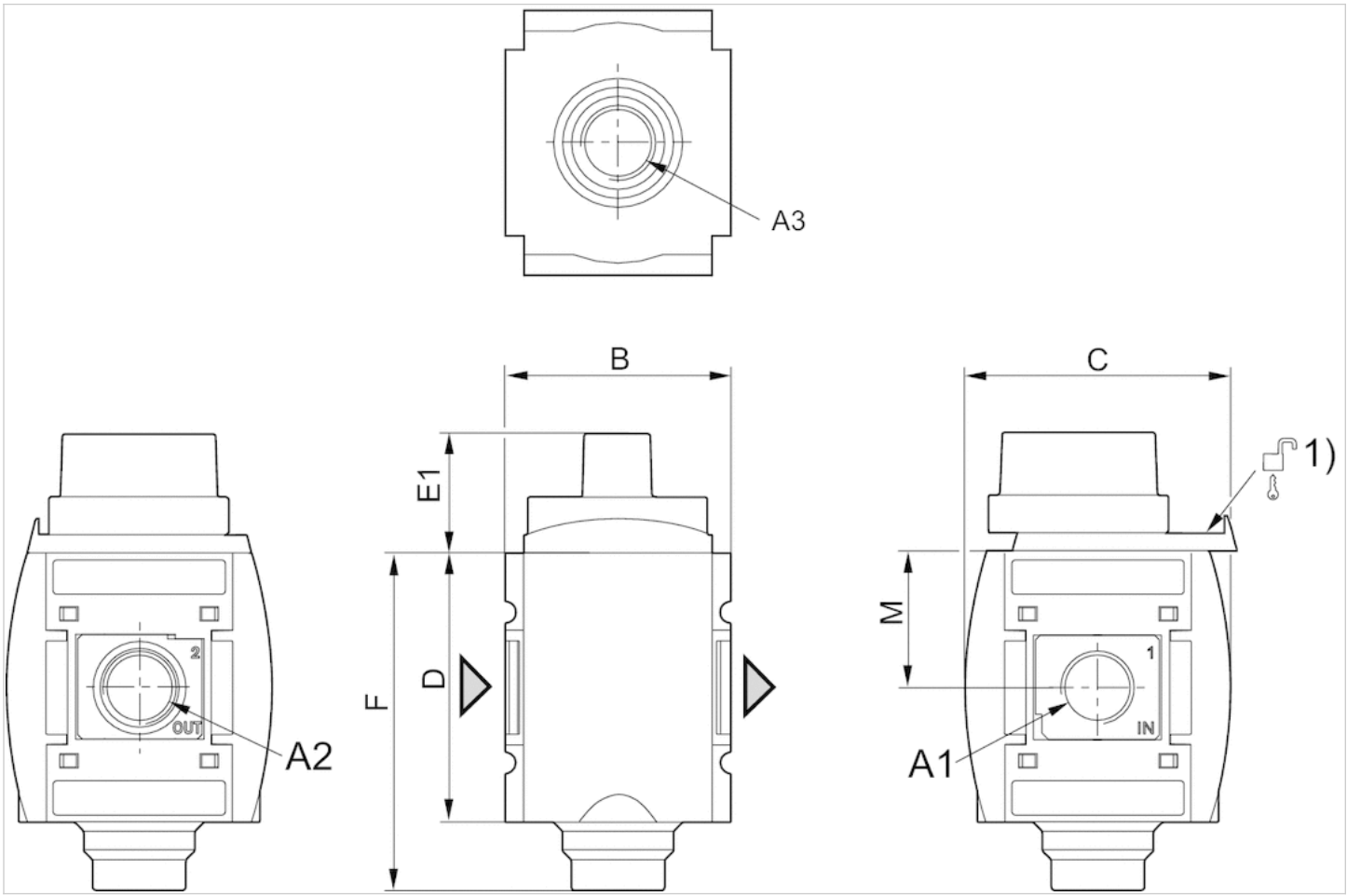
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for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



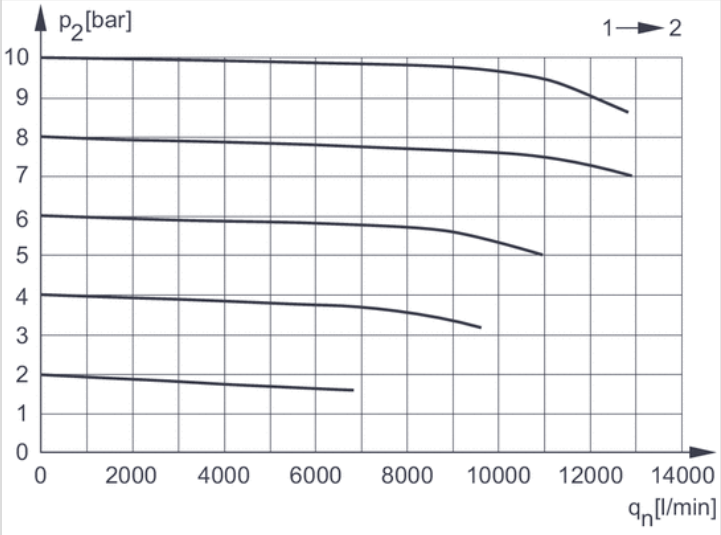
A1 = input
A2 = output
A3 = ventilation port
1) Mounting option for padlocks, max. shackle Ø 8

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

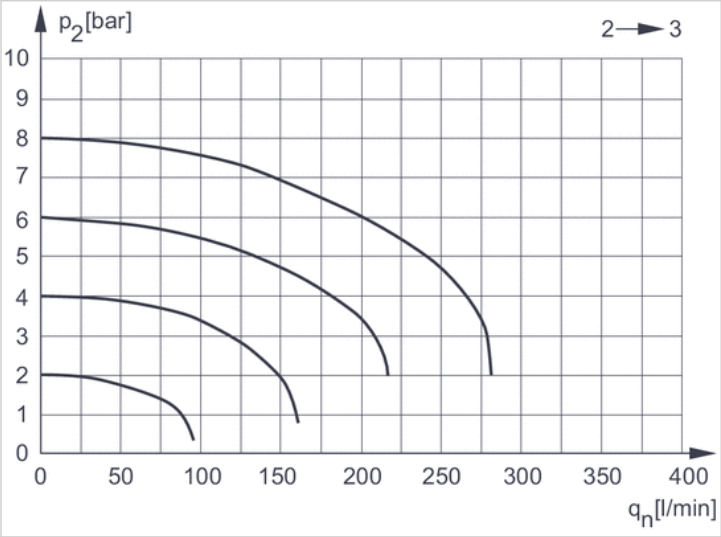
Diagrams

Flow rate characteristic



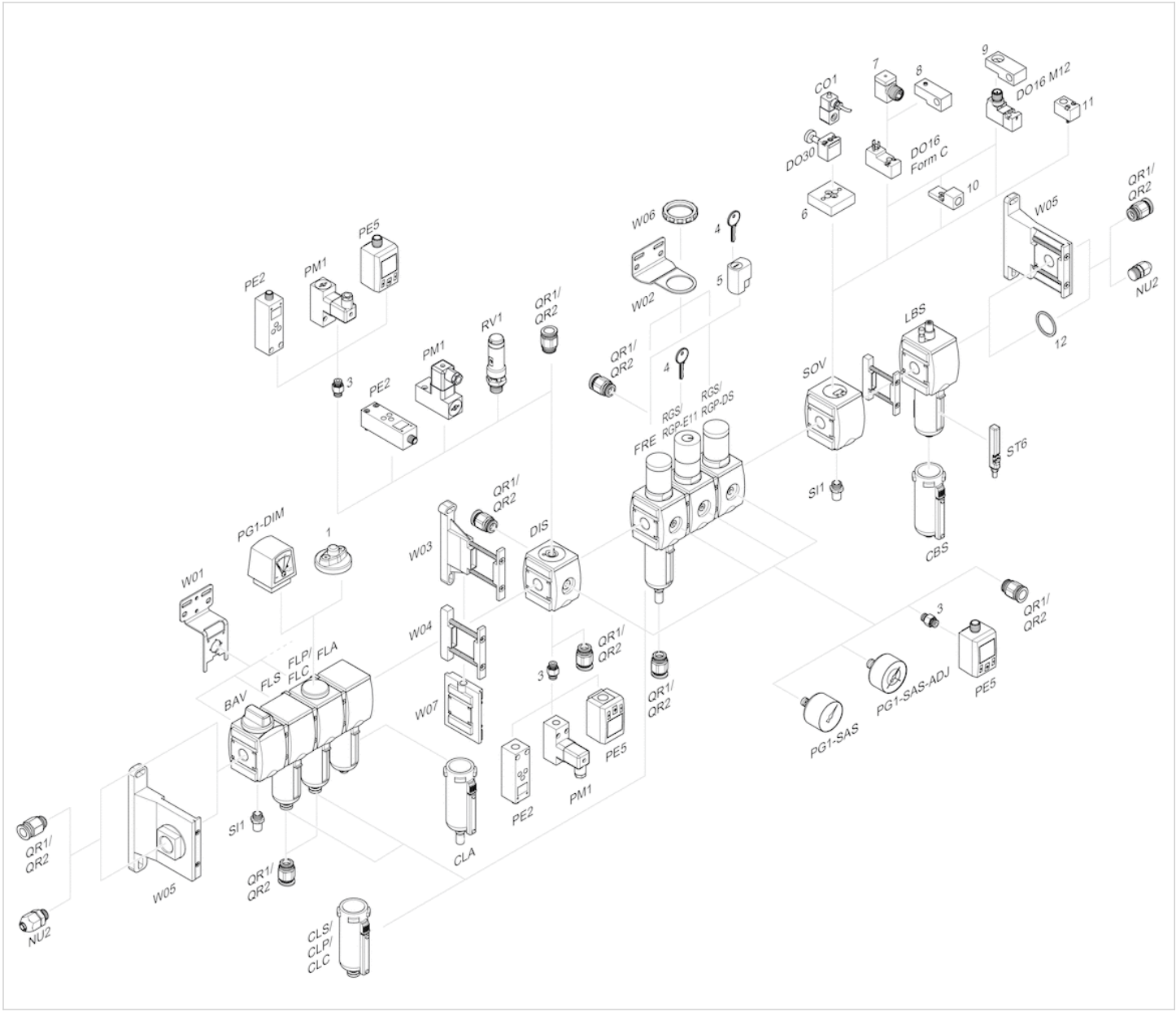
p2 = secondary pressure
qn = nominal flow

Rear exhaust



p2 = secondary pressure
qn = nominal flow

Accessories overview

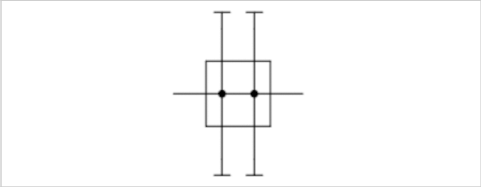


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Distributor, Series AS3-DIS

- G 3/8 G 1/2
- Distributor 4x





Version	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 Qn 1▸2	Nominal flow Qn 1▸3	Nominal flow Qn 1▸4	Nominal flow Qn 1▸5	Nominal flow 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

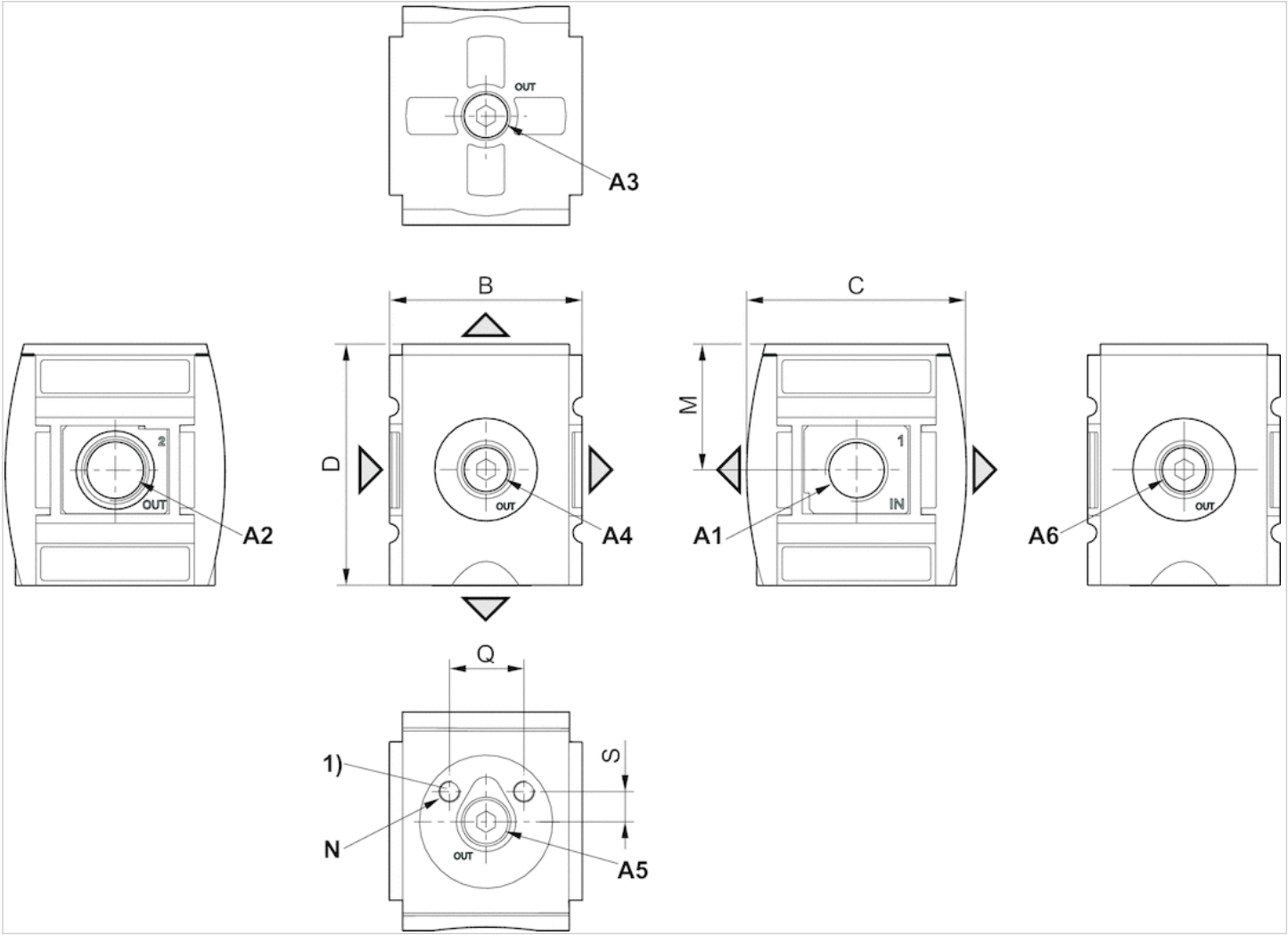
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
Suitable for direct mounting of a PE2 and PM1 series pressure sensor (flange version).
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating 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

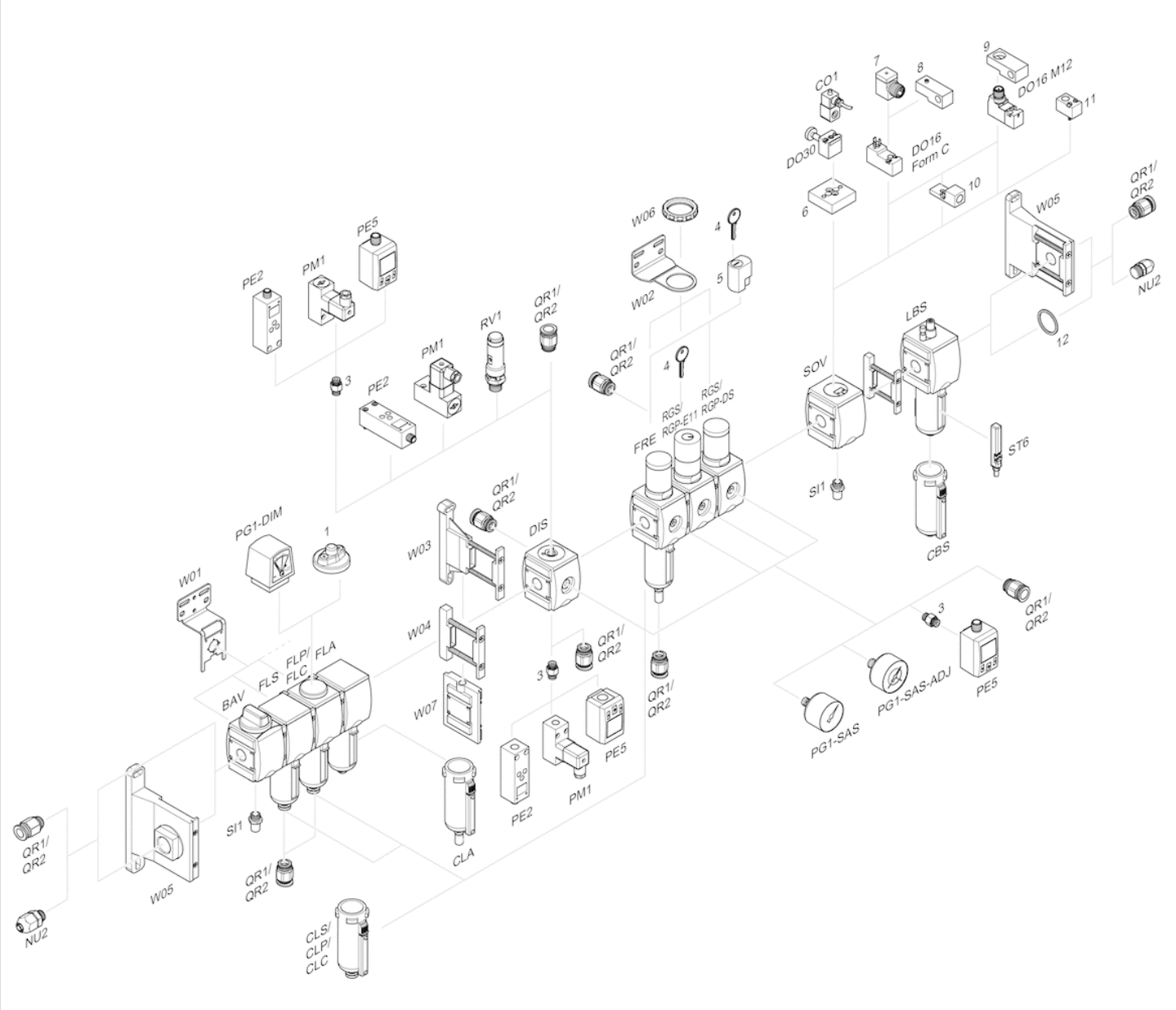


A1 = input
A2 = output
A3 = output
A4 = output
A5 = output
A6 = output
1) Mounting thread for pressure sensor

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

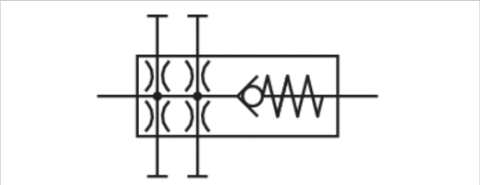


1 = contamination display
3 = Double nipple
4 = Key for E11 locking
5 = mortise lock
6 = Transition plate DO30
7 = Adapter, Series CON-VP
8 = Mounting aid DO16, form C
9 = Mounting aid DO16, M12
10 = Adapter for external pilot air
11 = Adapter pneumatic operation
12 = Sealing ring

Distributor, Series AS3-DIN

- G 3/8 G 1/2
- Distributor 4x
- Non-return valve





Version	Non-return valve, Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Working pressure min./max.	0.4 ... 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 Qn 1▸2	Nominal flow Qn 1▸3	Nominal flow Qn 1▸4	Nominal flow Qn 1▸5	Nominal flow 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.

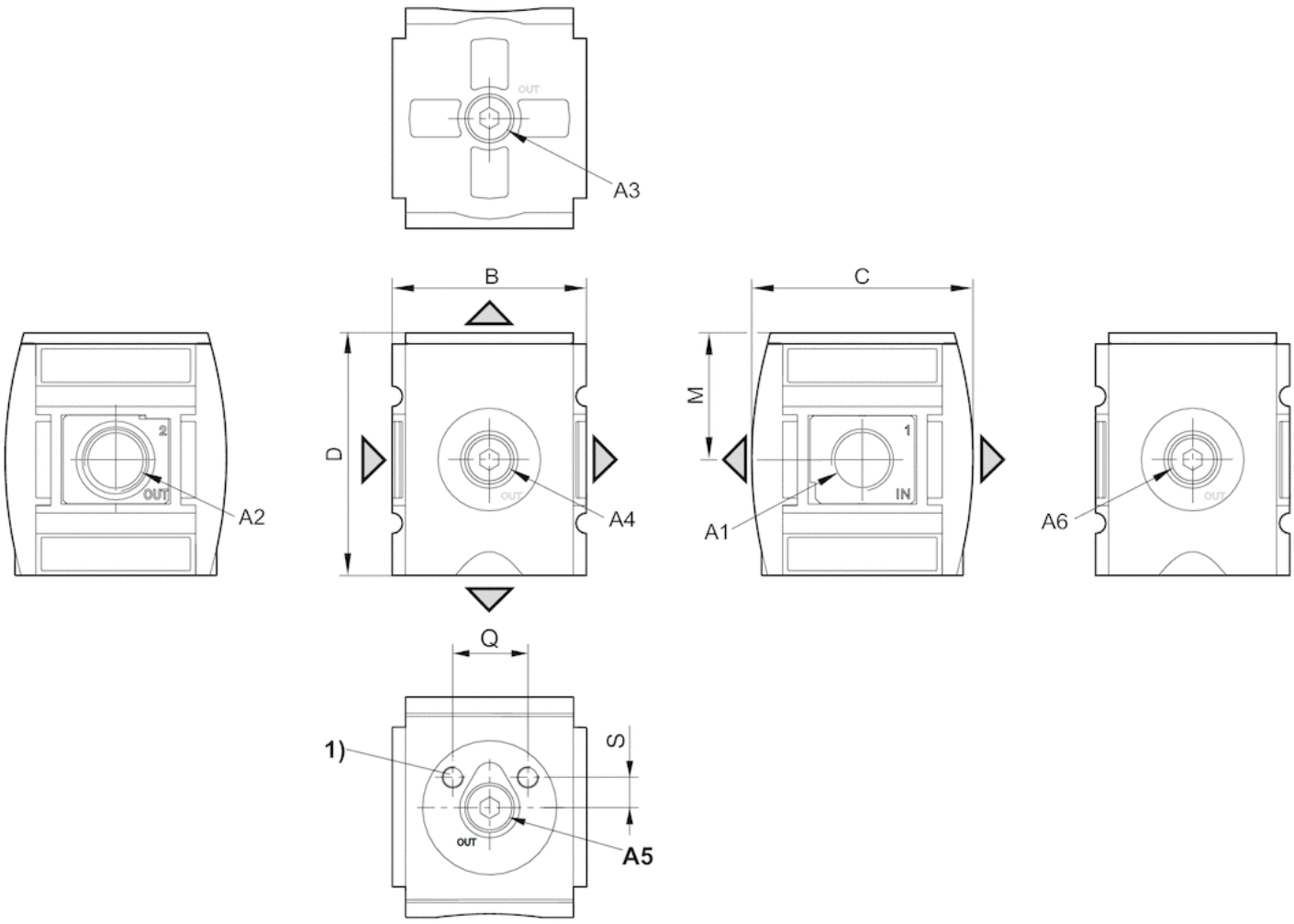
Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Dimensions

Dimensions



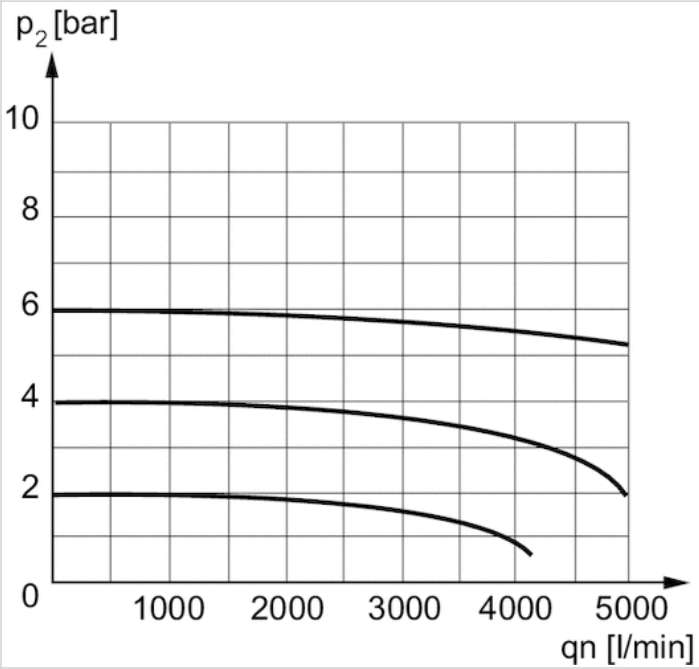
A1 = input
A2 = output
A3 = output
A4 = output
A5 = output
A6 = output

Dimensions in mm

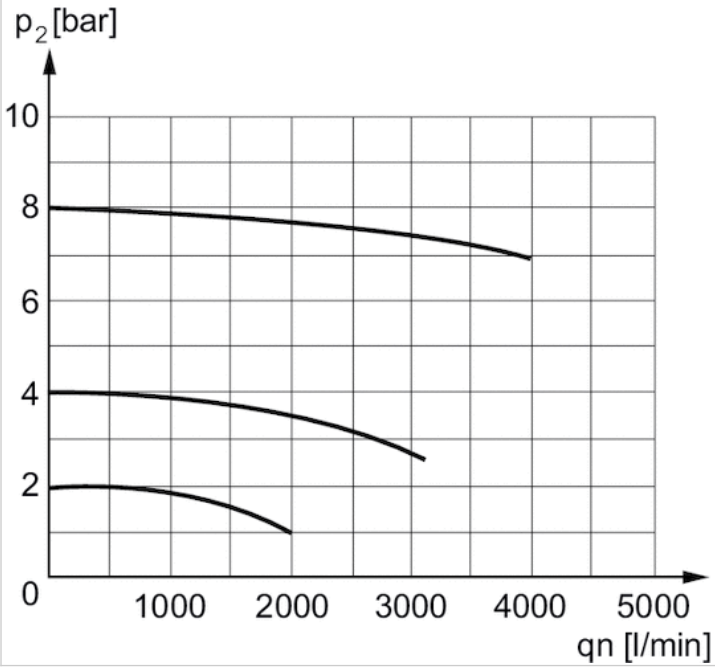
A1	A2	A3	A4	A5	A6	B	C	D	M	Q
G 3/8	G 3/8	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80	42.5	20
G 1/2	G 1/2	G 1/2	G 3/8	G 1/4	G 3/8	63	74	80	42.5	20

Diagrams

Flow rate characteristic

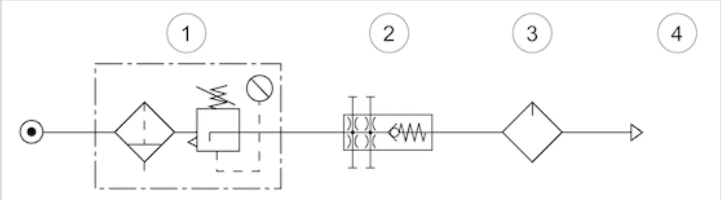


Nominal flow 1 ▸ 2
p2 = secondary pressure
qn = nominal flow



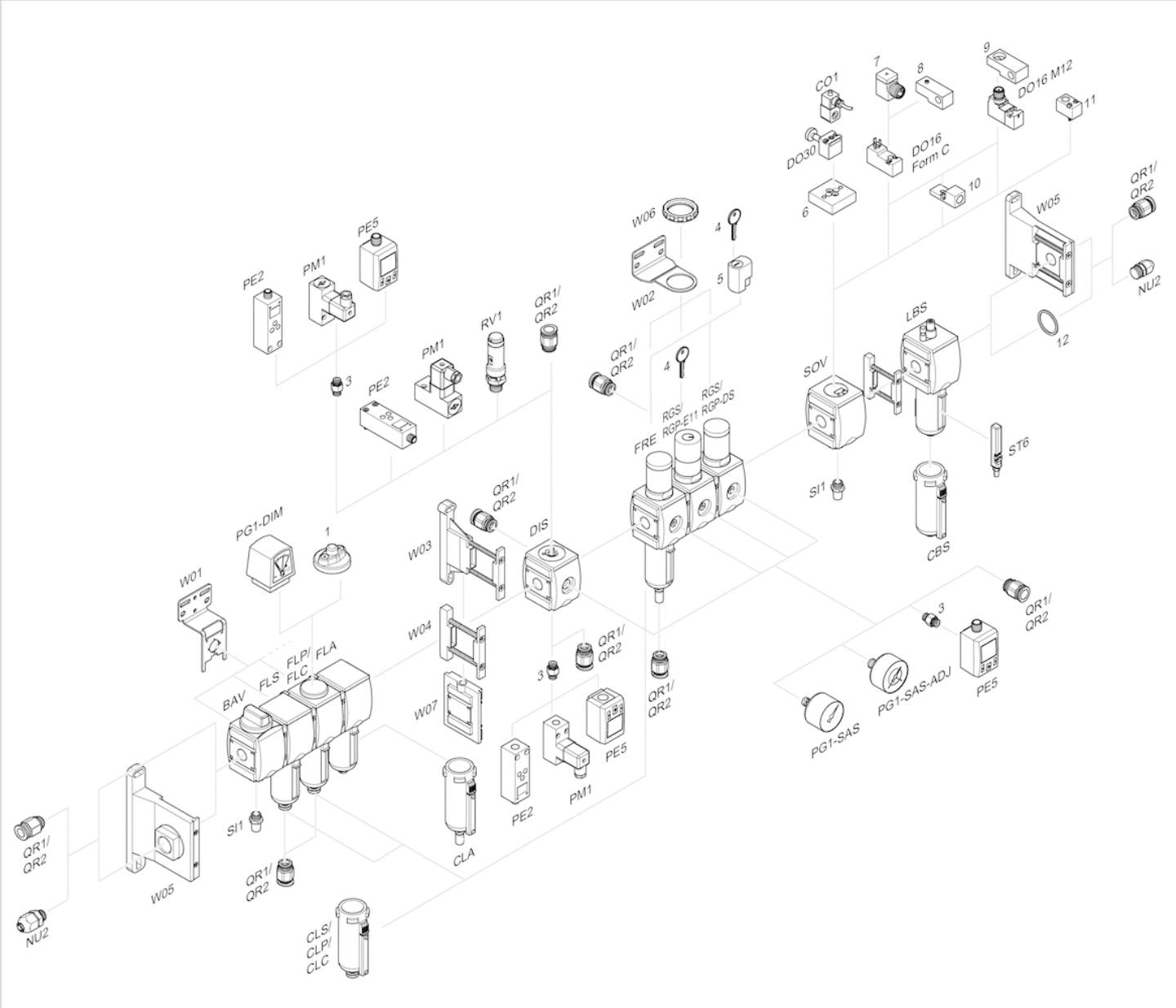
Nominal flow 1 ▸ 3
p2 = secondary pressure
qn = nominal flow

usage



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

Accessories overview



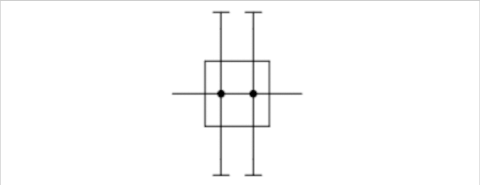
1 = contamination display
3 = Double nipple
4 = Key for E11 locking

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 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.
Additional air supply possible at connections A4 and A5.

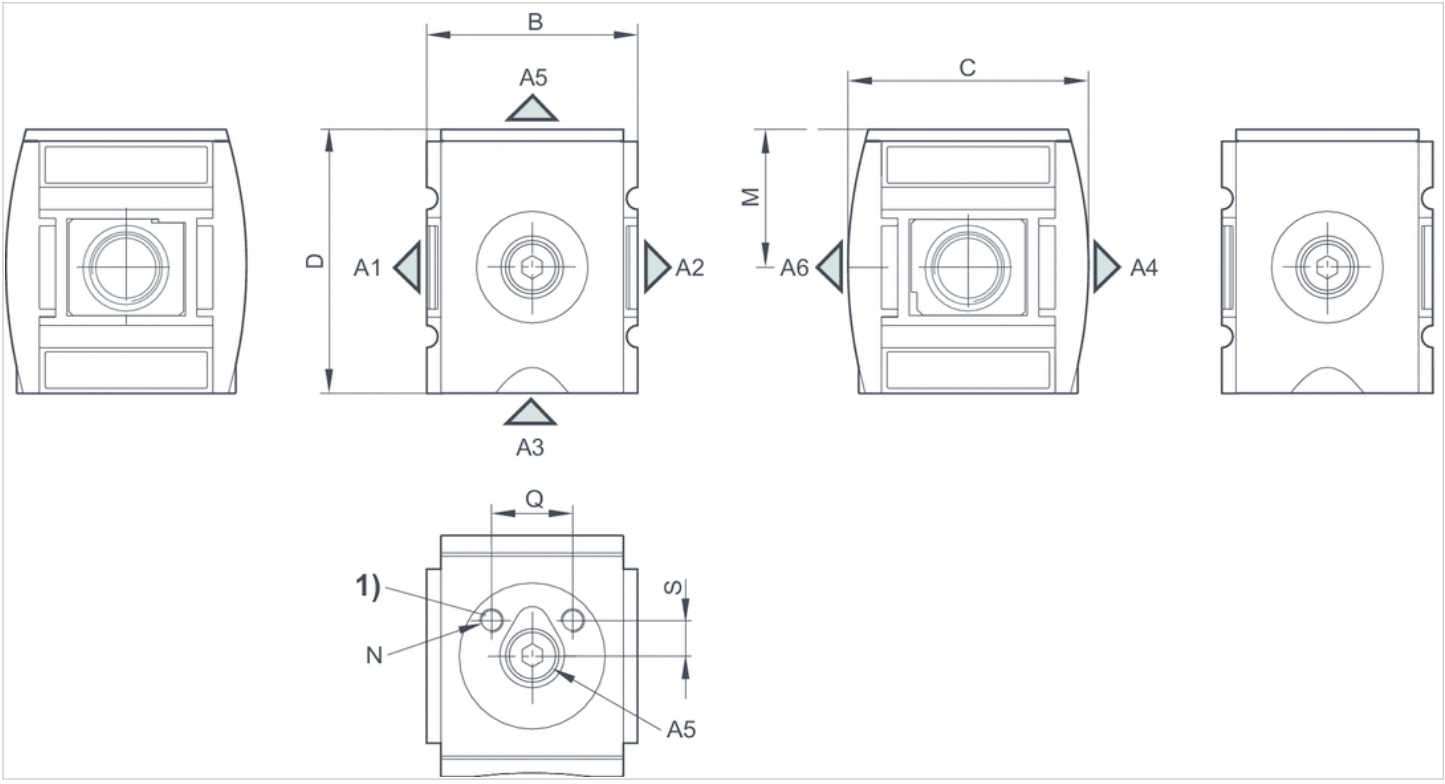
Technical information

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

Material	
Threaded bushing	Die cast zinc

Dimensions

Dimensions

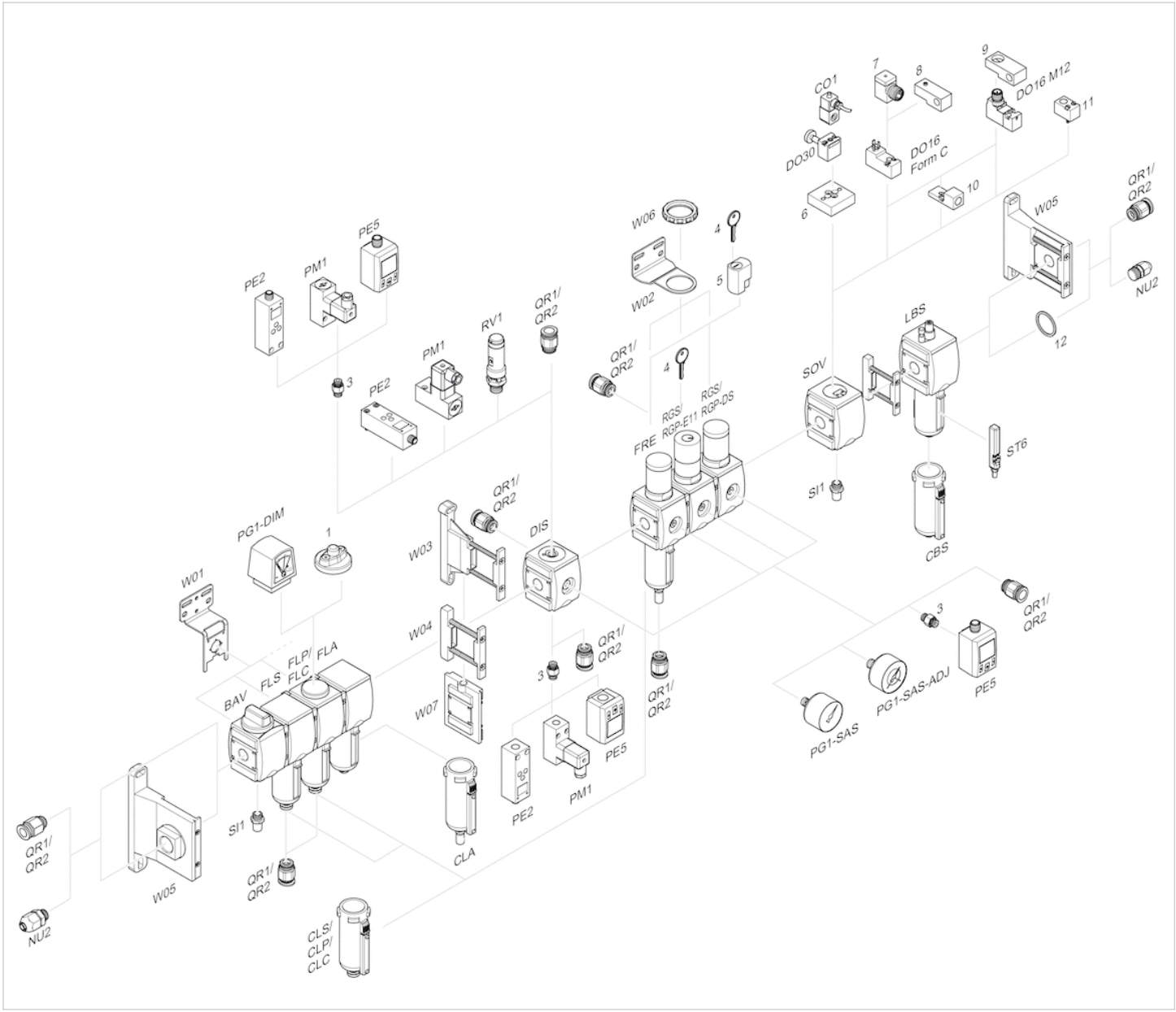


A1 = output
A2 = output
A3 = input/output
A4 = output
A5 = input/output
A6 = output
1) Mounting thread for pressure sensor

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 cm³
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

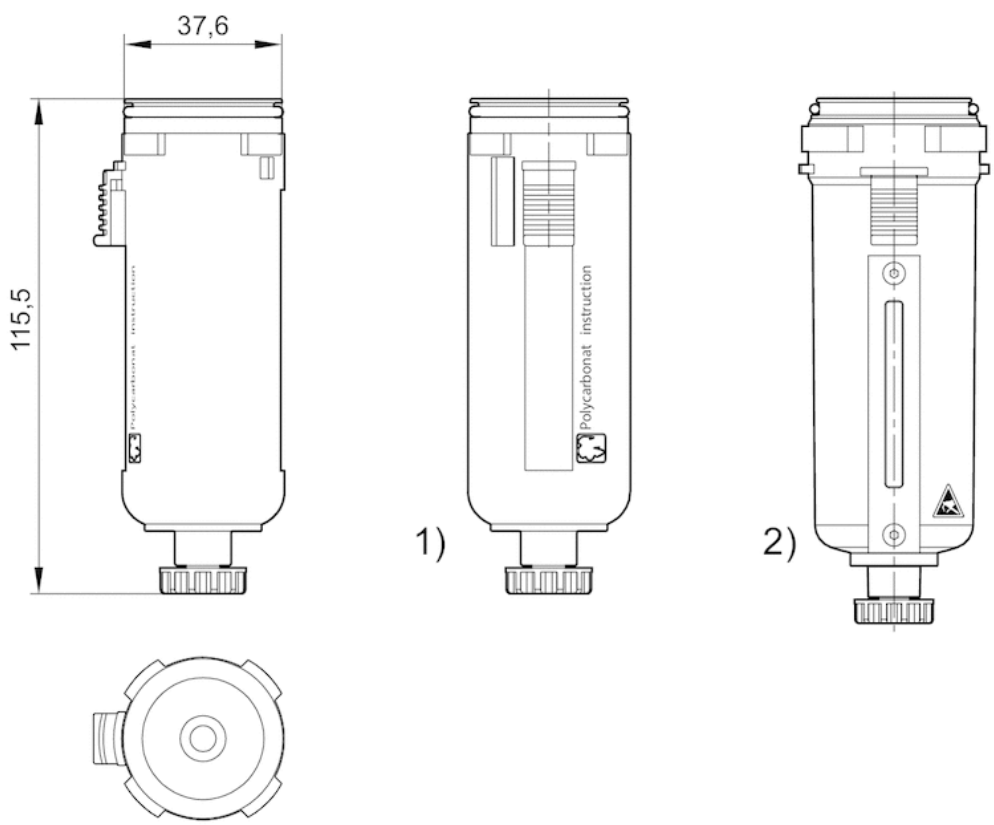
Part No.	Protective guard	Weight	Fig.
R412007338	Polyamide	0.086 kg	Fig. 1
R412007339	Polyamide	0.116 kg	Fig. 2
R412007340	Polyamide	0.116 kg	Fig. 2
R412007344	-	0.338 kg	Fig. 1
R412007345	-	0.39 kg	Fig. 2
R412007346	-	0.39 kg	Fig. 2

Technical information

Material	
Reservoir	Polycarbonate Die cast zinc
Protective guard	Polyamide
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions in mm, Fig. 1



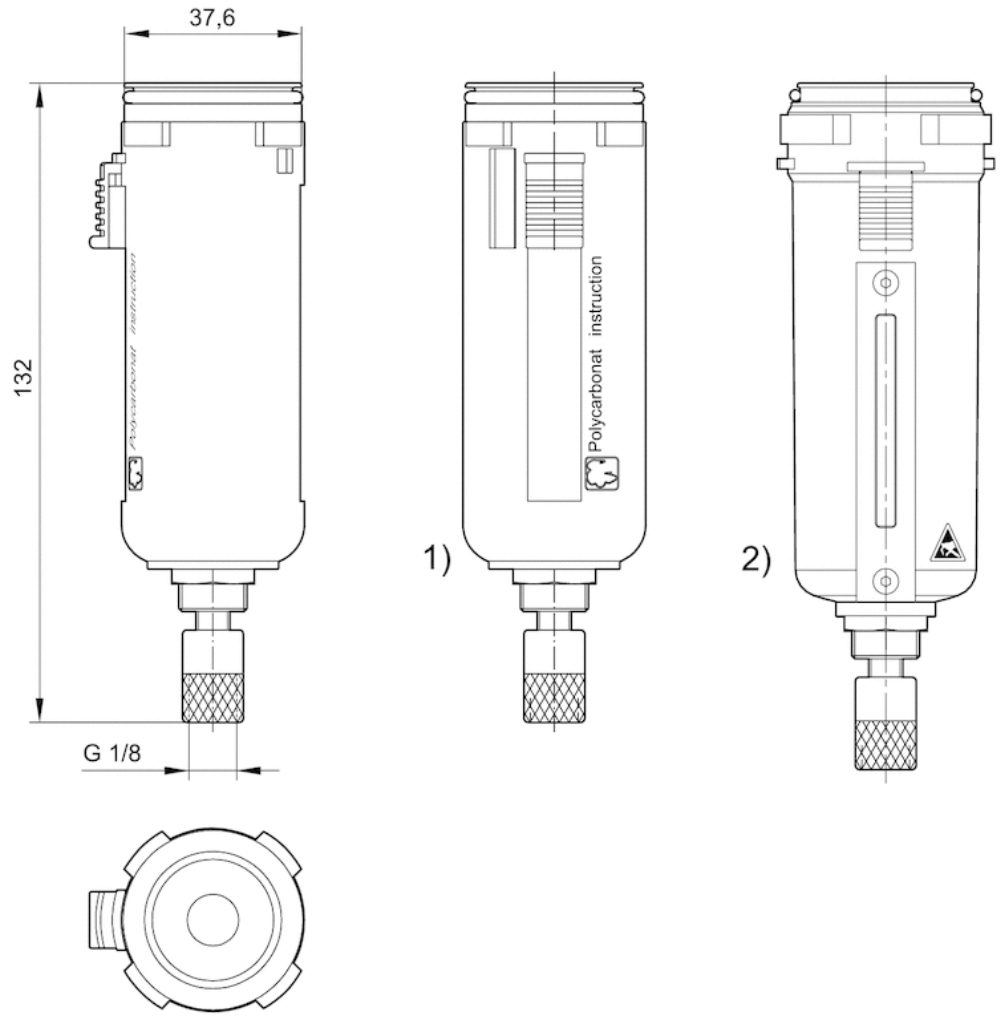
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass

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 cm³
Weight	See table below

Technical data

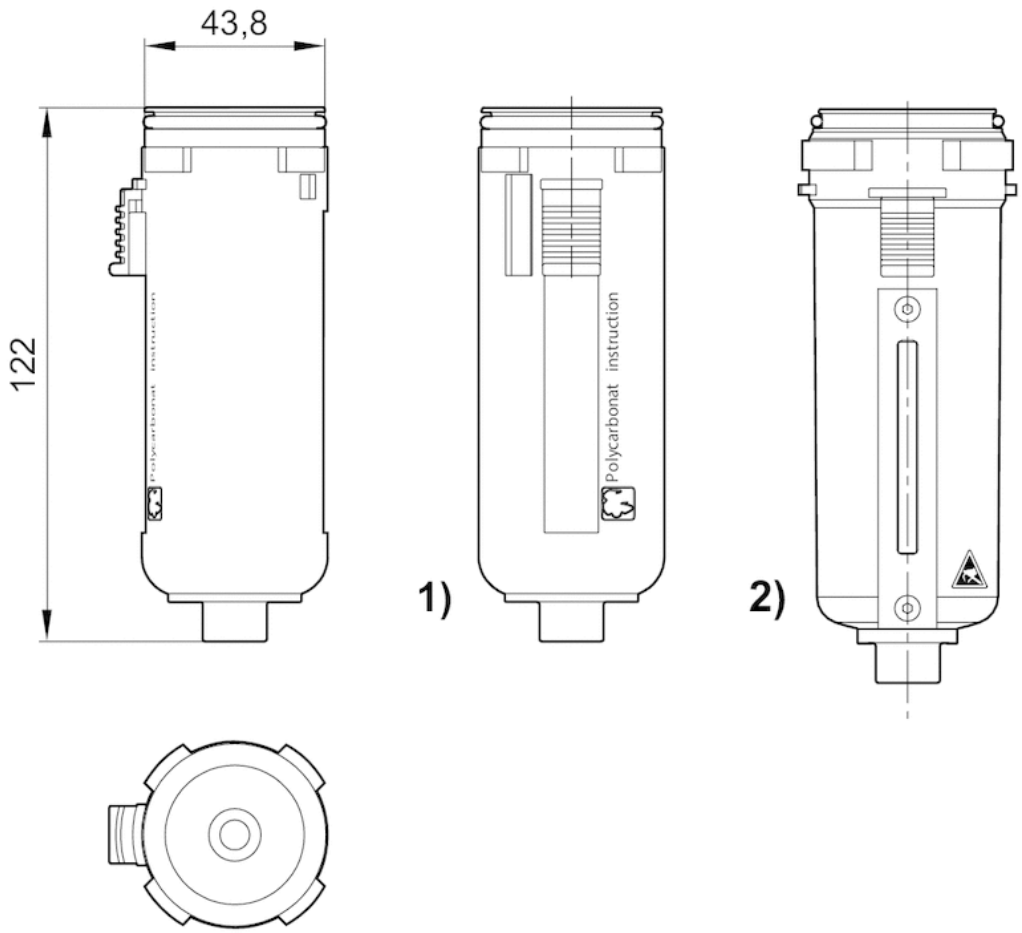
Part No.	Reservoir	Protective guard	Weight
R412007347	Polycarbonate	Polyamide	0.086 kg
R412007349	Die cast zinc, with window	-	0.338 kg

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	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 Oil
Lubricator reservoir volume	80 cm³
Weight	See table below

Technical data

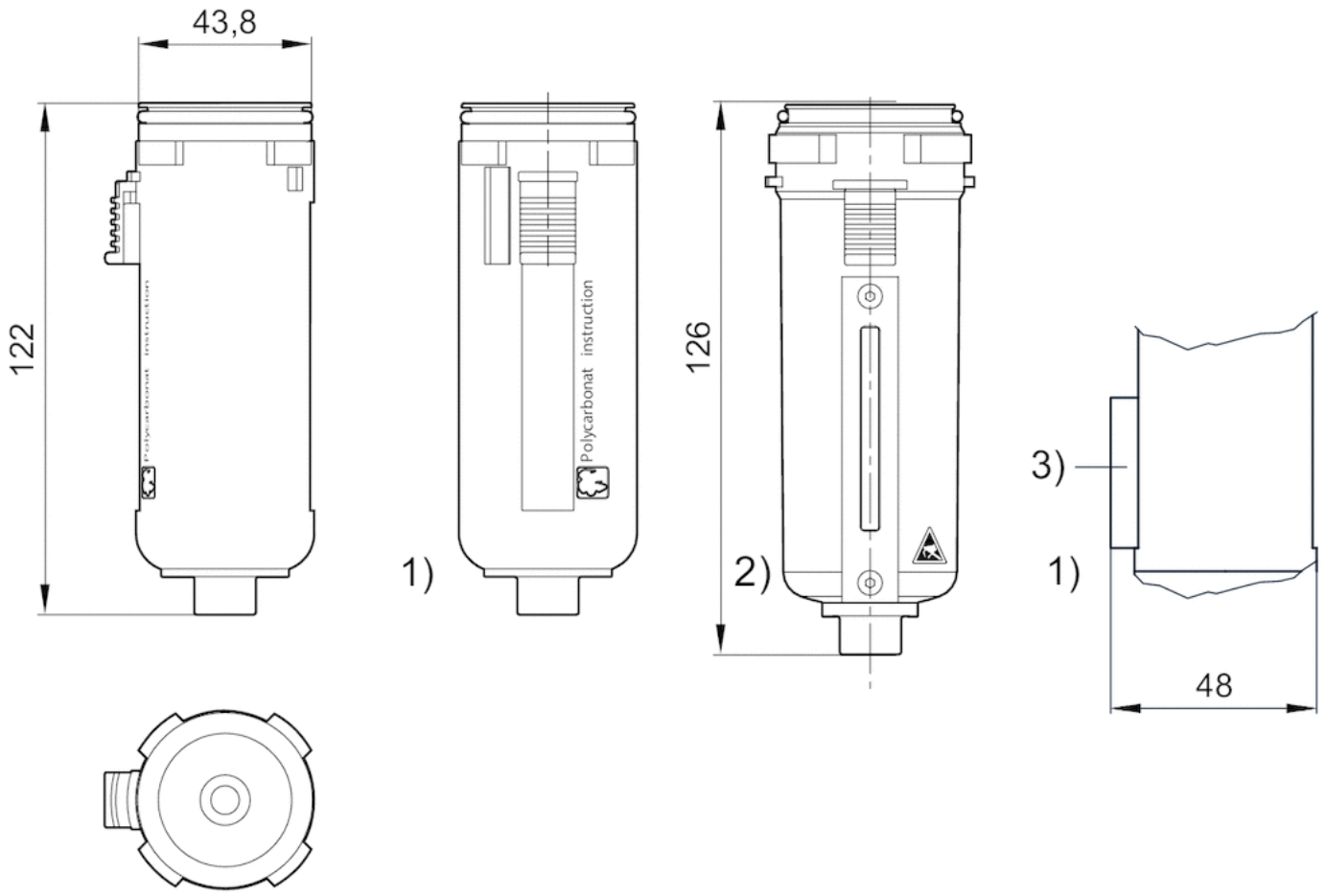
Part No.	Electrical level indicator	Reservoir	Protective guard	Weight
R412007352	-	Polycarbonate	Polyamide	0.086 kg
R412007358	-	Die cast zinc, with window	-	0.335 kg
R412007351	with external query	Polycarbonate	Polyamide	0.086 kg

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

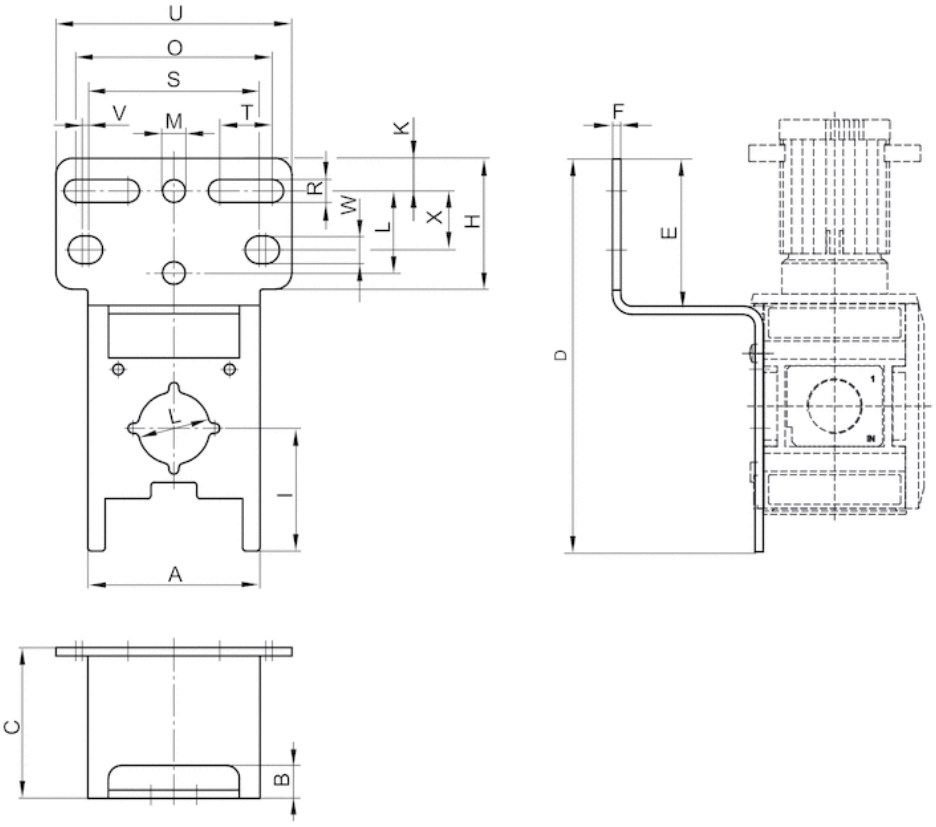
For assembly of the W01 mounting plate, the rear cover of the air preparation unit must be removed.

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

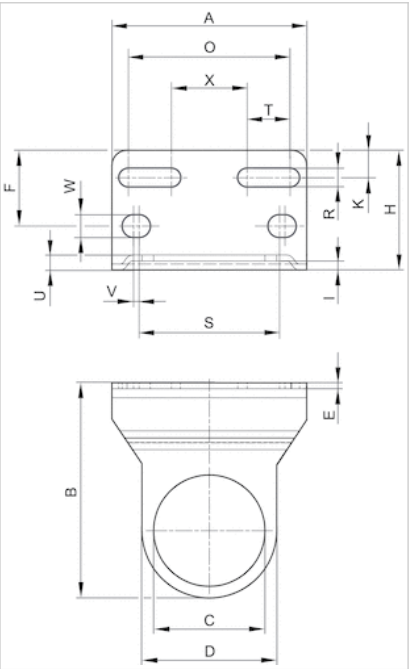
Part No.
R412007964

Technical information

Material	
Housing	Steel, galvanized

Dimensions

Dimensions



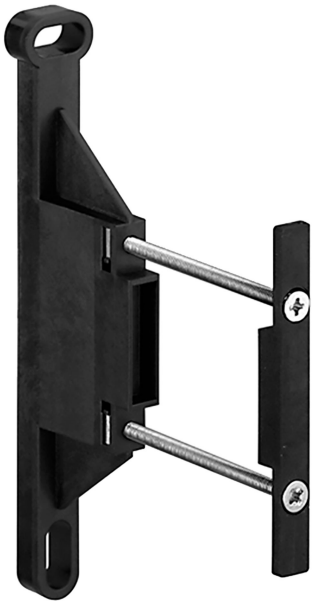
Dimensions in mm

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



Technical data

Industry
Industrial

Min. ambient temperature
-10 °C

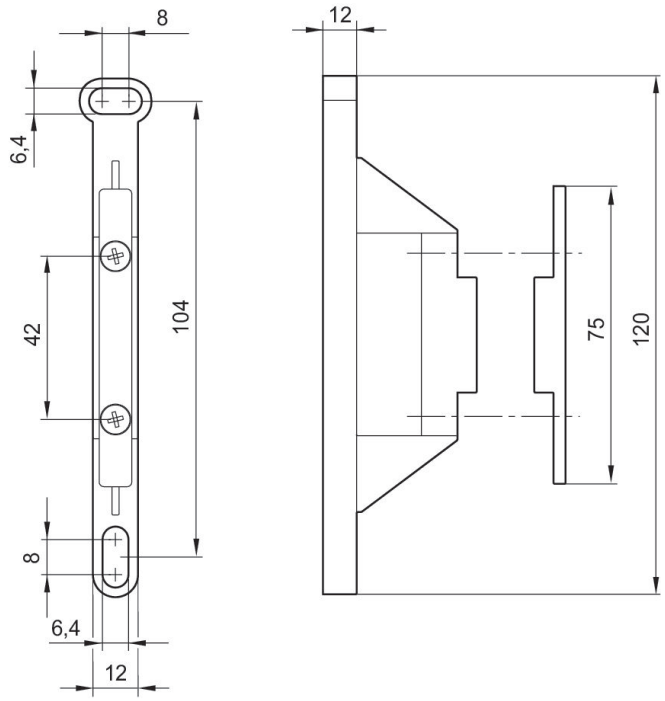
Max. ambient temperature
50 °C

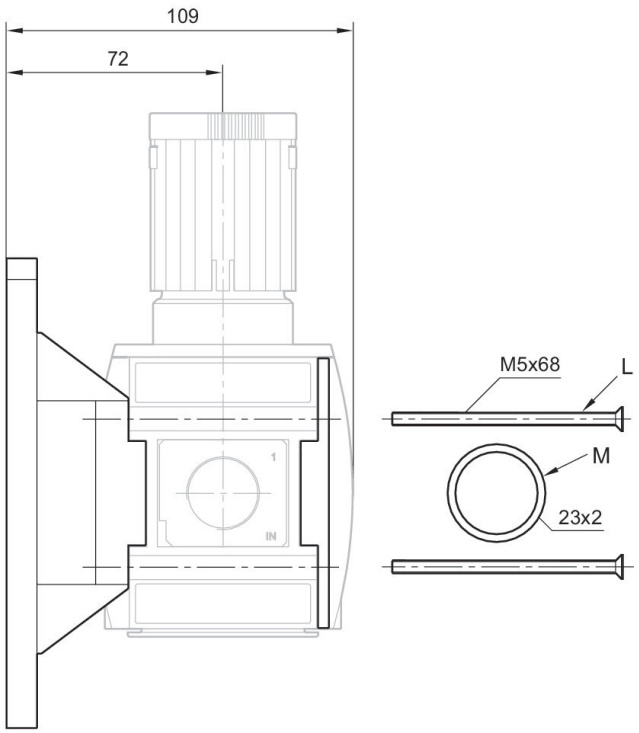
Weight
0.055 kg

Housing material
Polyamide

Seal material
Acrylonitrile butadiene rubber

R412007370


8
12
6,4
42
104
8
6,4
12
75
120


109
72
M5x68
L
M
23x2

Mounting clip, Series AS3-MBR-...-W03-C



Ambient temperature min./max.	-10 ... 50 °C
Weight	0.055 kg

Technical data

Part No.
R412007373

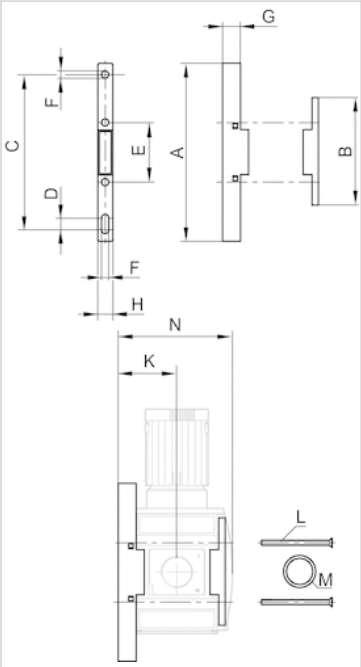
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

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

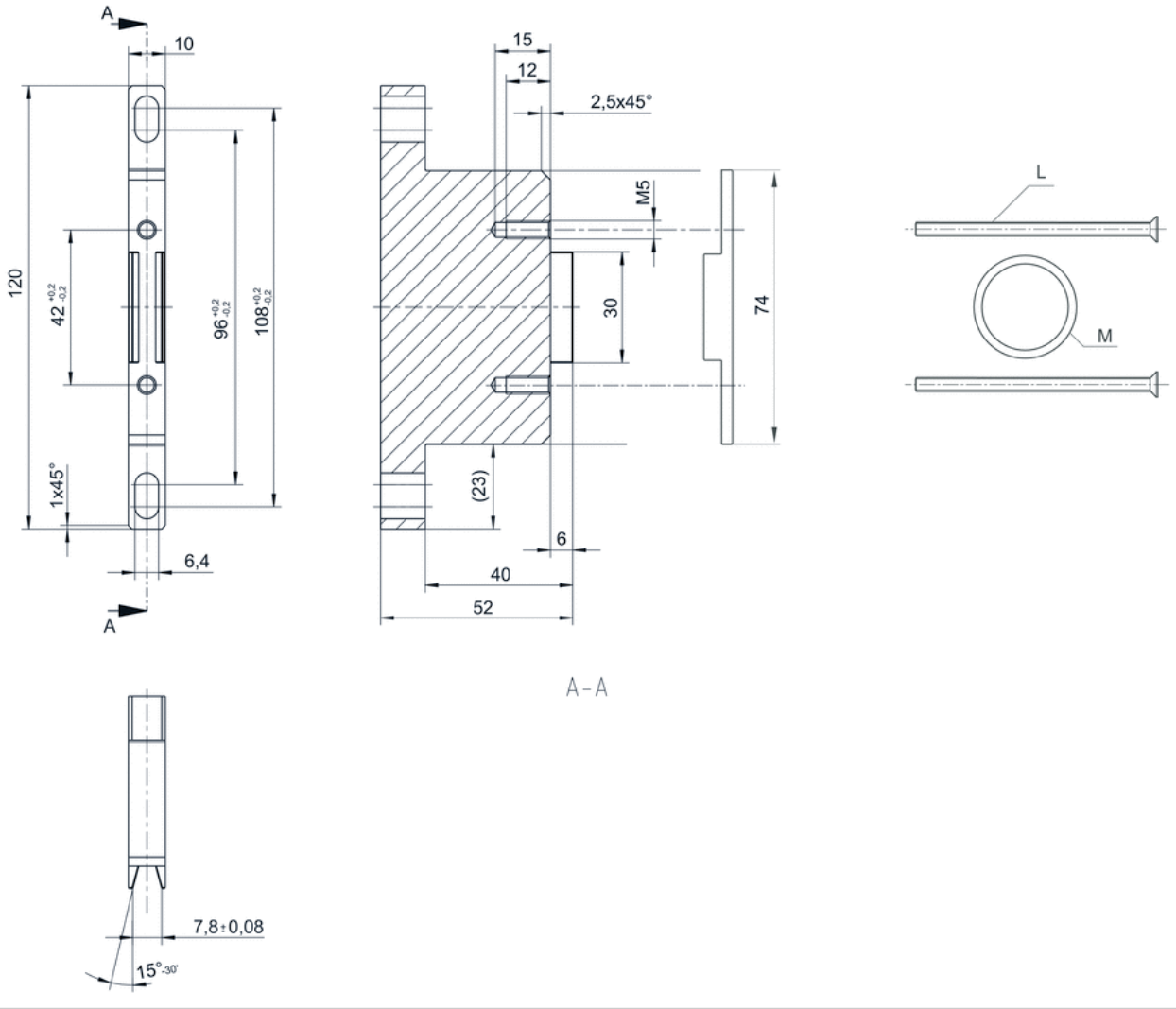
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

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

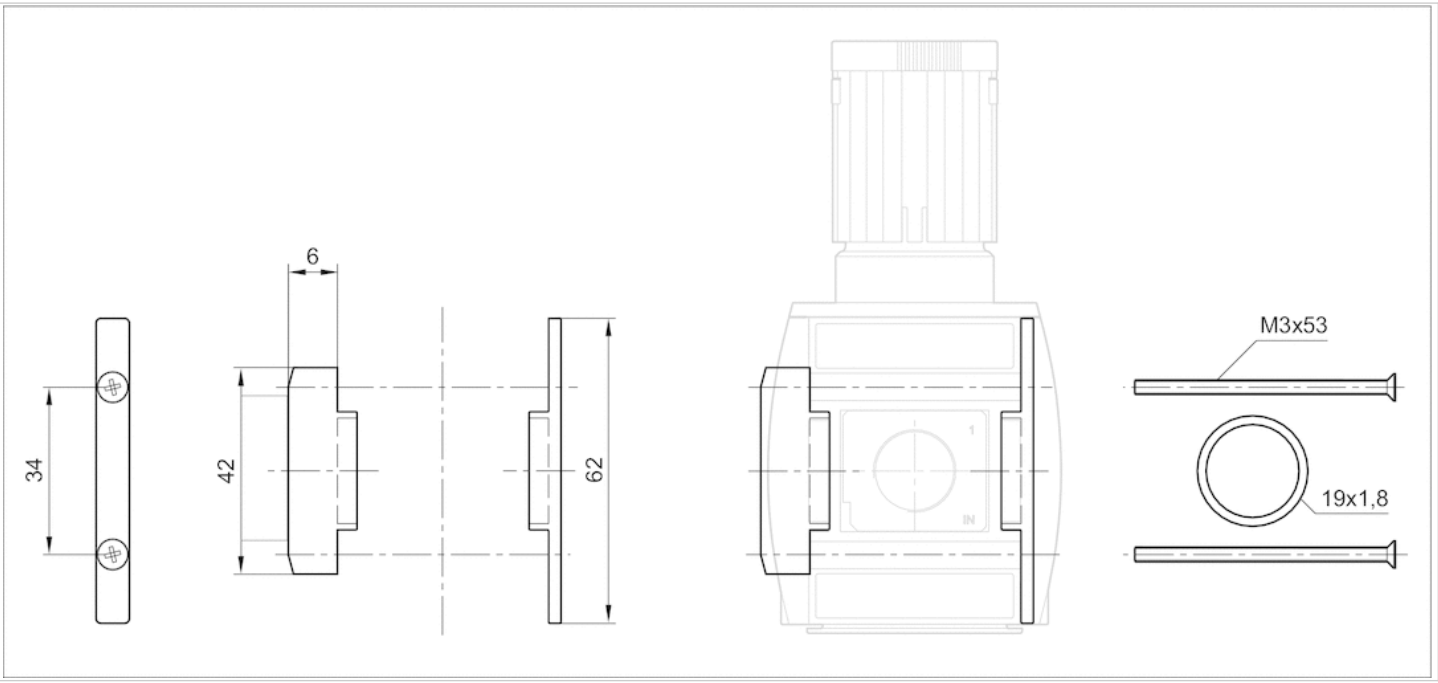
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

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

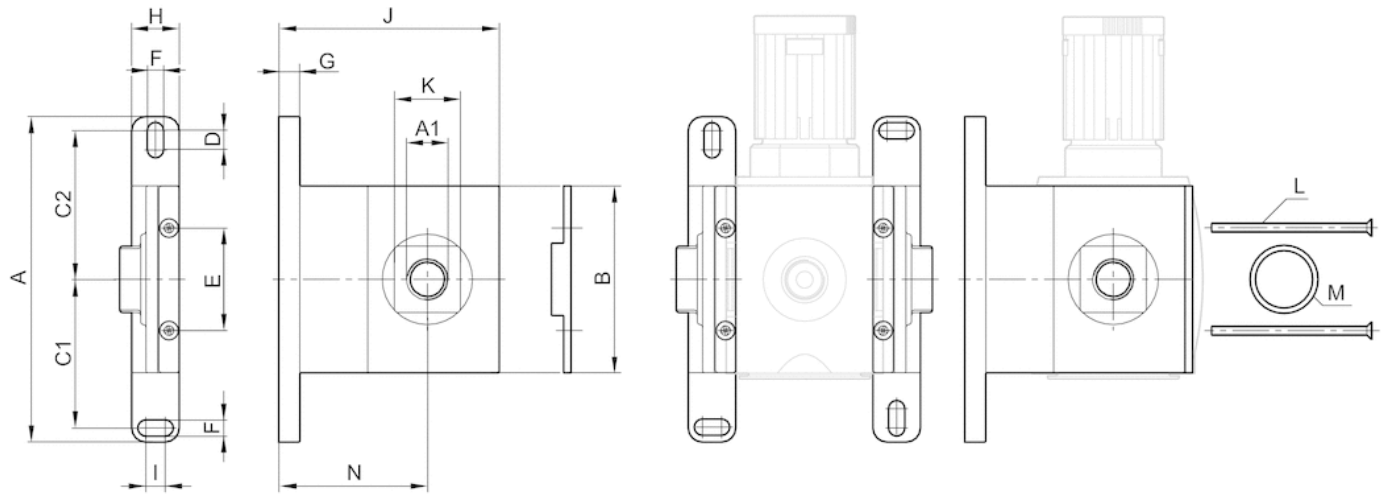
Scope of delivery incl. 4 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring

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

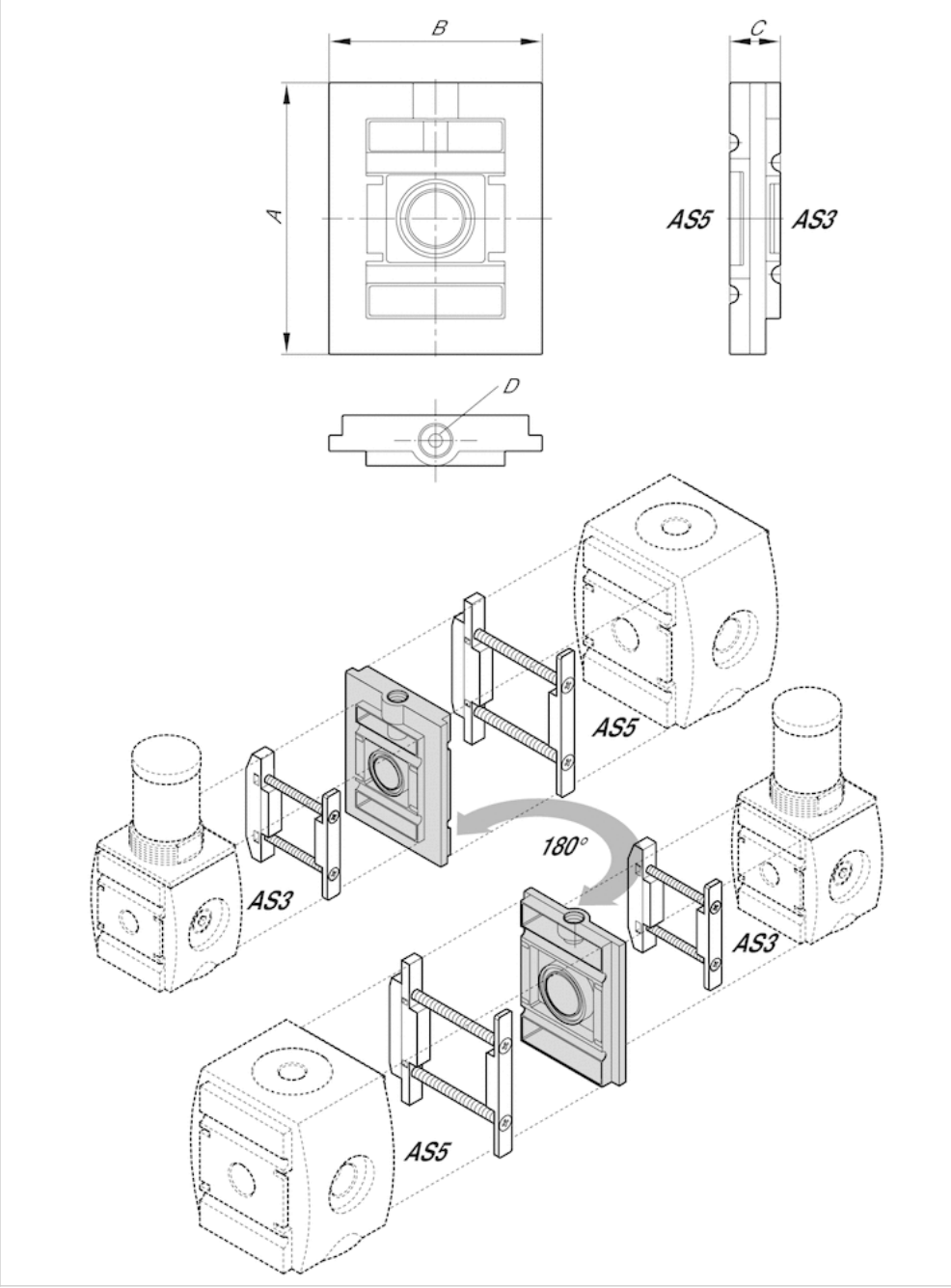
Part No.	Port
R412010122	G 1/4

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

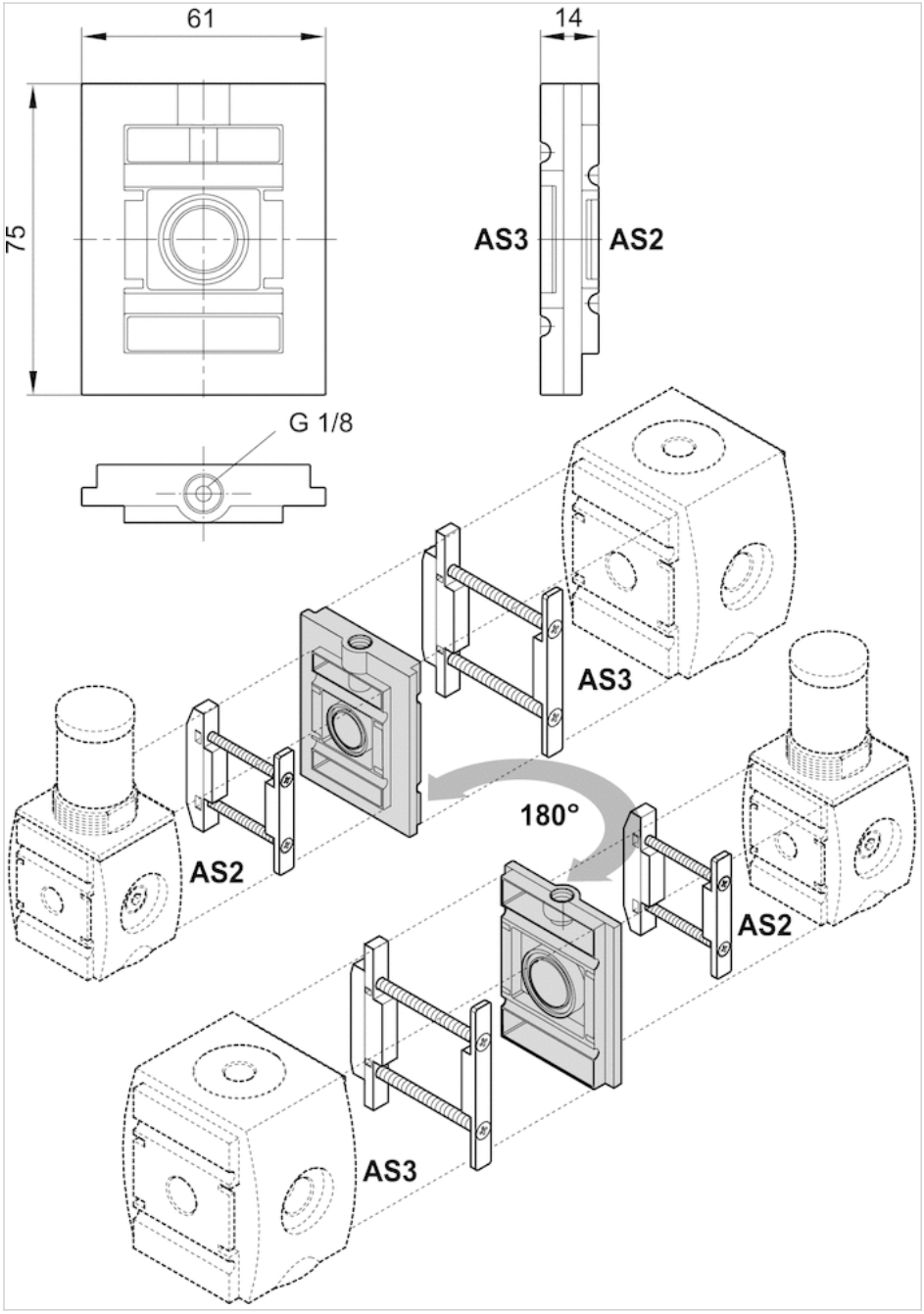
Part No.	Port
R412010121	G 1/8

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

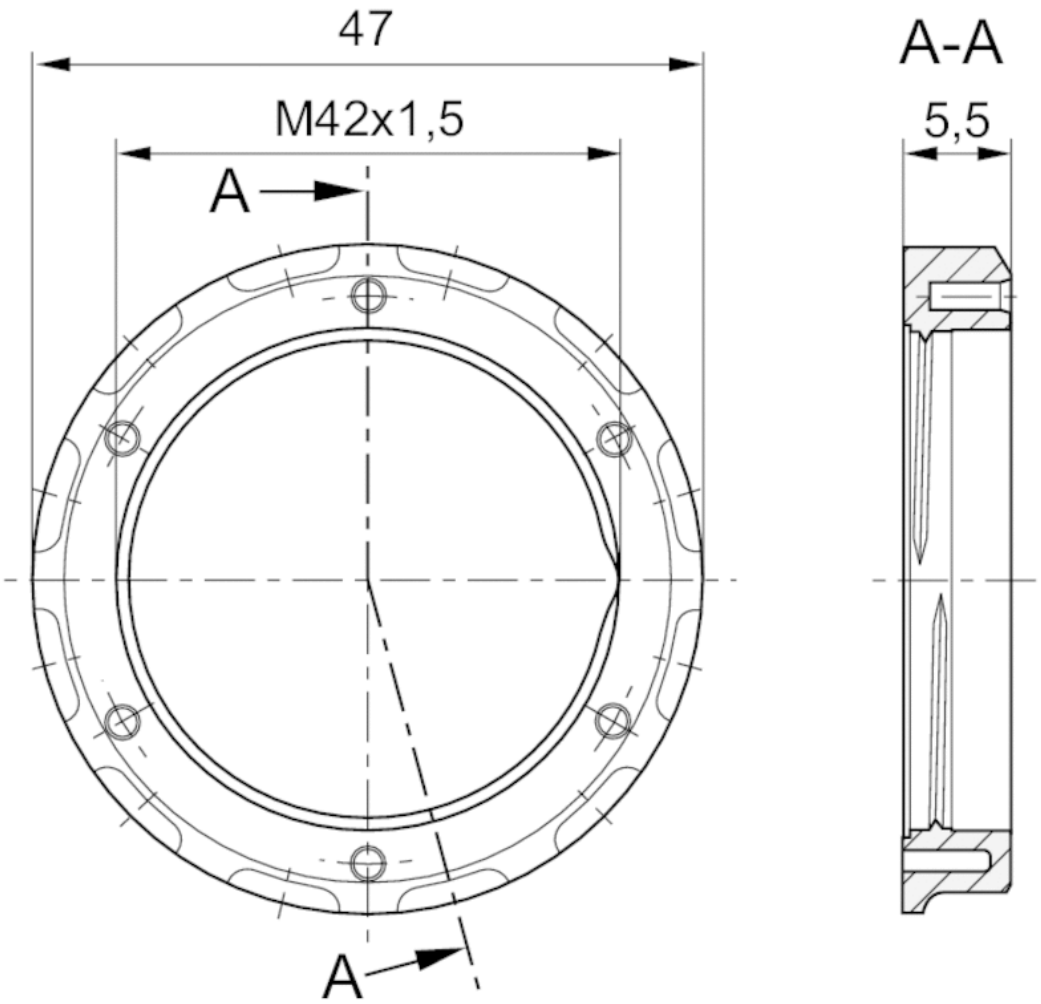
Part No.	Port	for	Scope of delivery
1829234072	M42x1.5	AS3	5 piece

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

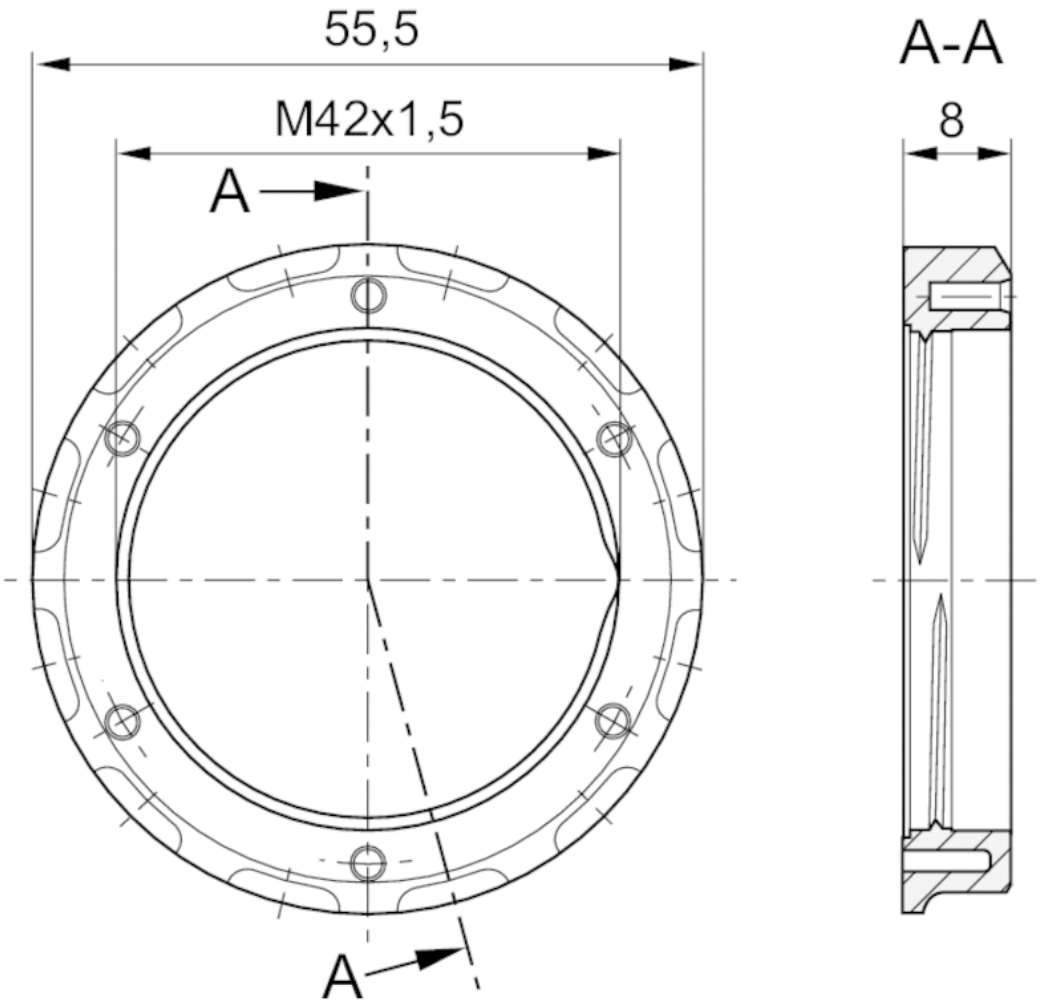
Part No.	Port	for
R412007372	M42x1.5	AS3

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

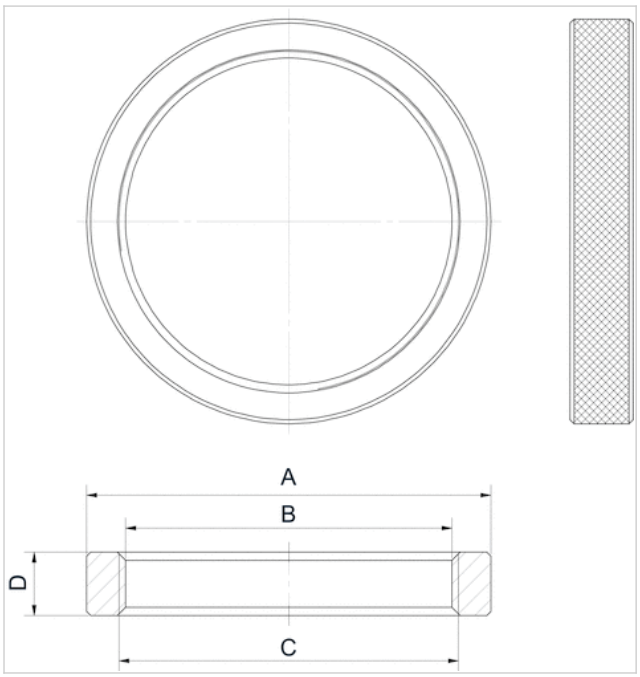
Technical data

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

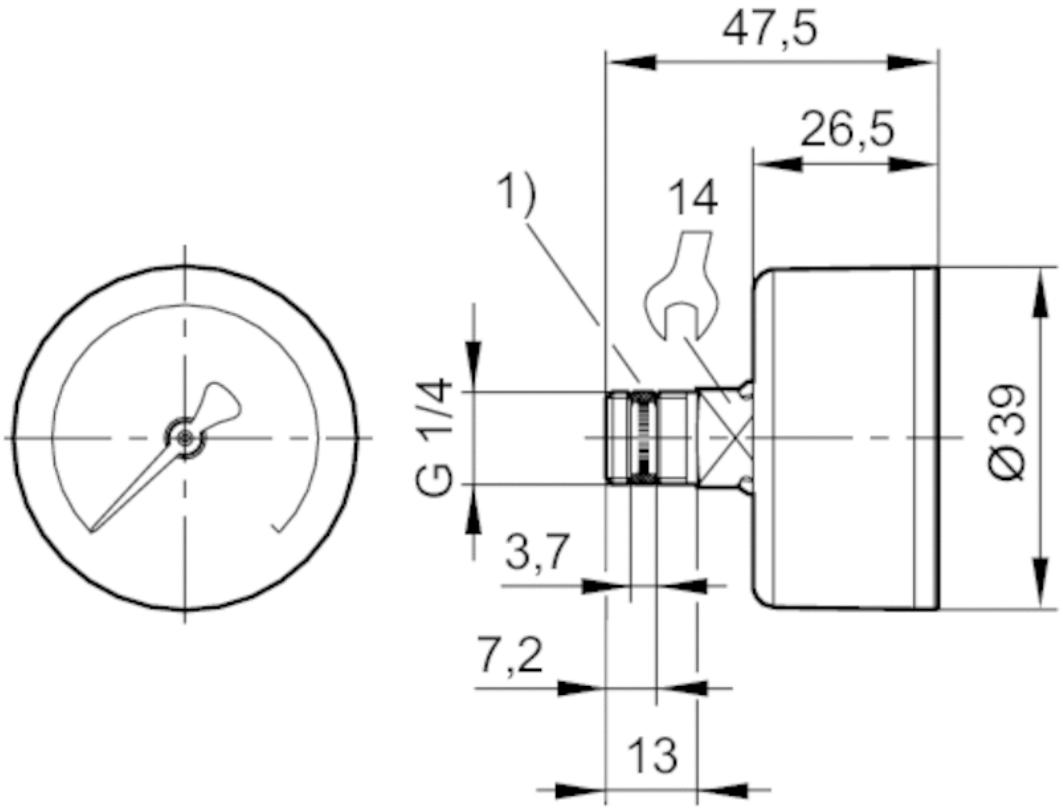
Part No.	Weight	Fig.	
R412004407	0.08 kg	Fig. 1	-
R412004408	0.08 kg	Fig. 1	-
R412004409	0.08 kg	Fig. 1	-
R412004410	0.08 kg	Fig. 1	-
R412004411	0.08 kg	Fig. 1	-
R412004412	0.08 kg	Fig. 1	-
R412004413	0.09 kg	Fig. 2	-
R412004414	0.09 kg	Fig. 2	-
R412004415	0.09 kg	Fig. 2	-
R412004416	0.09 kg	Fig. 2	-
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

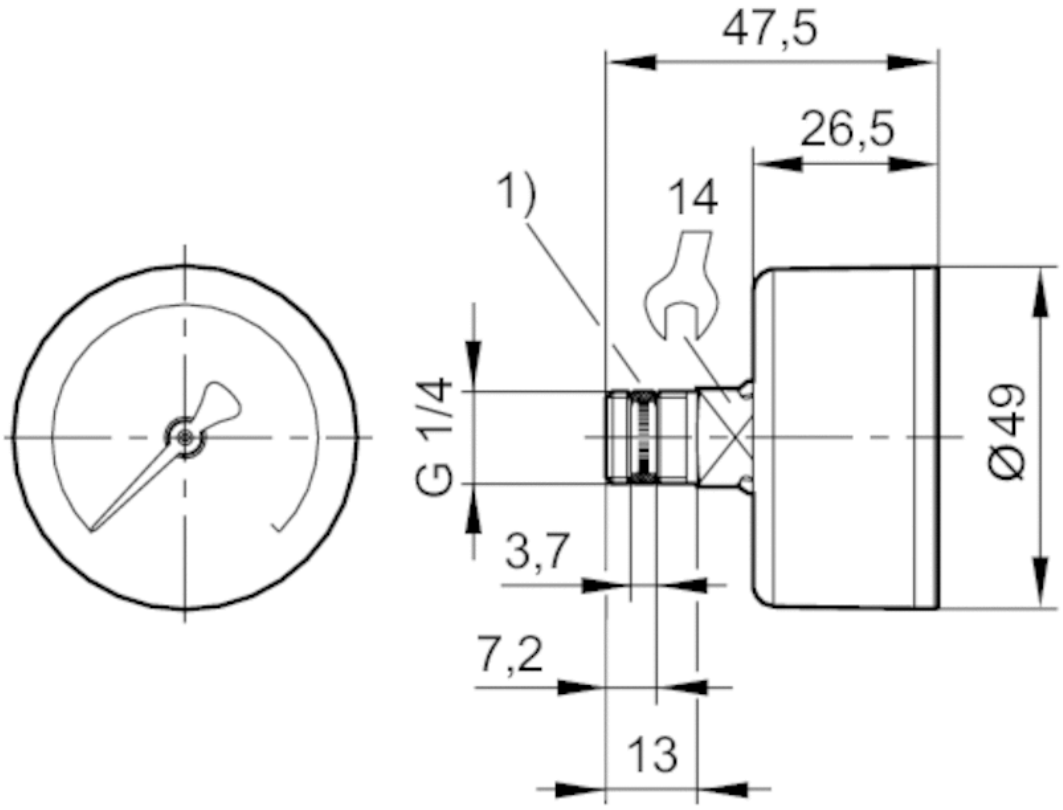
Dimensions

Dimensions in mm, Fig. 1



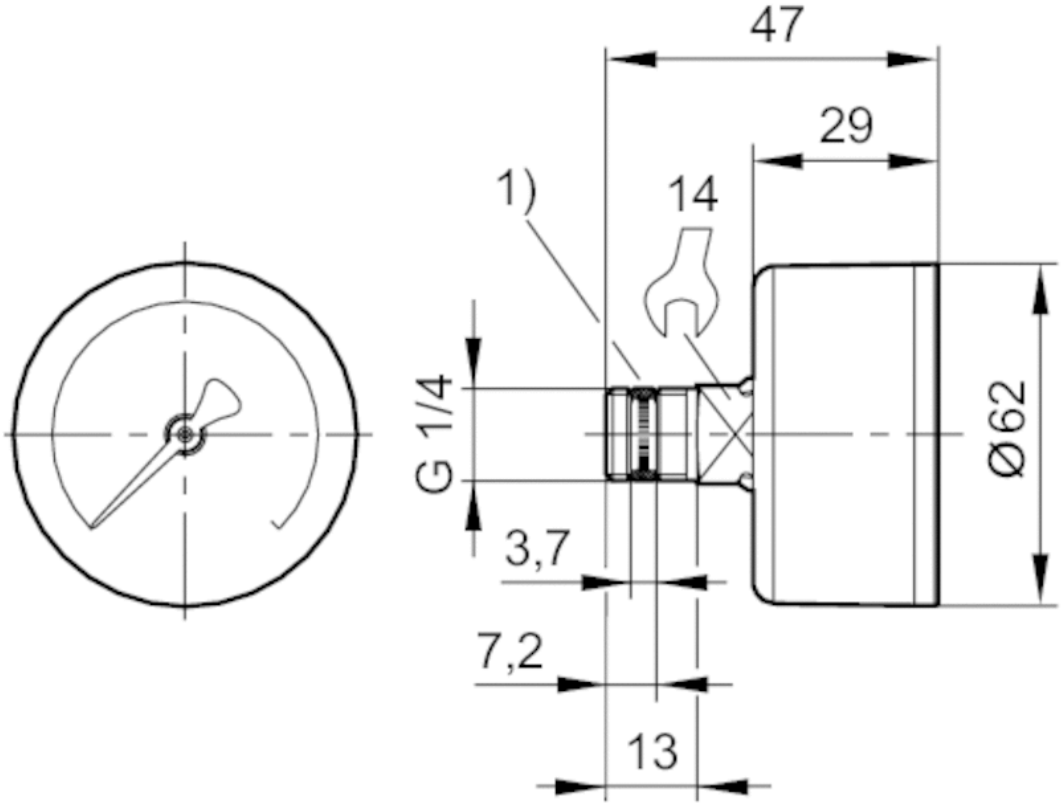
1) Gasket thread

Dimensions in mm, Fig. 2



1) Gasket thread

Dimensions in mm, Fig. 3

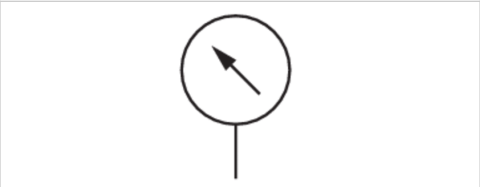


1) Gasket thread

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.

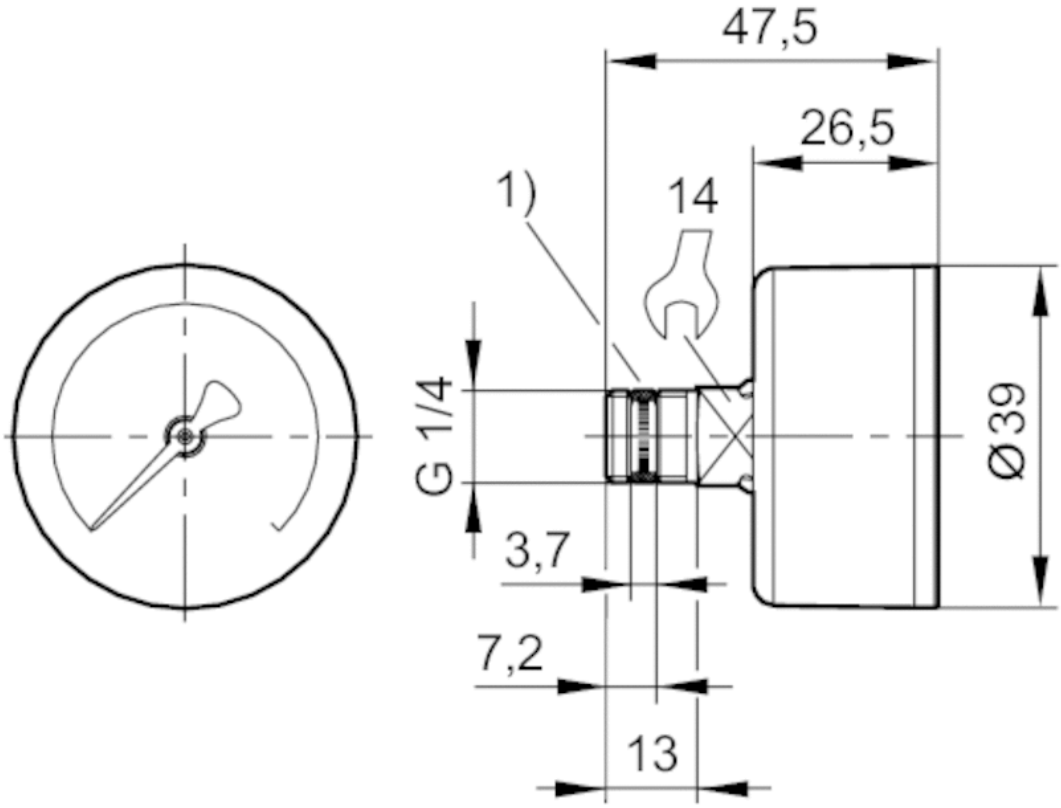
Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass

Material	
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

Dimensions

Dimensions in mm, Fig. 1



1) Gasket thread

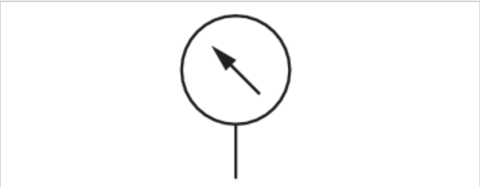
Dimensions in mm

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

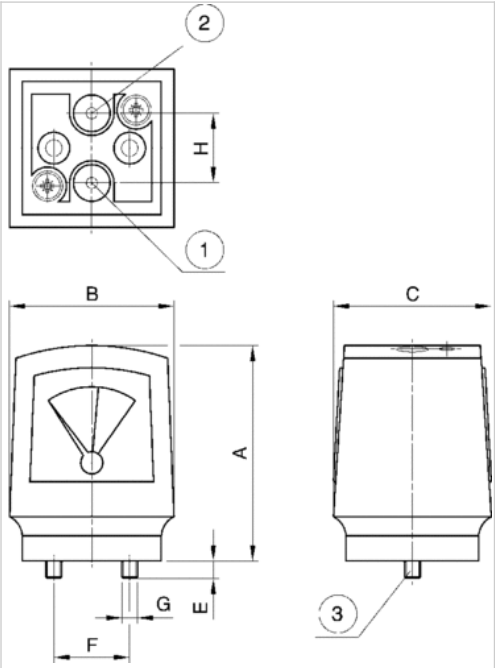
Suitable for use in Ex zones 1, 2, 21, 22.

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

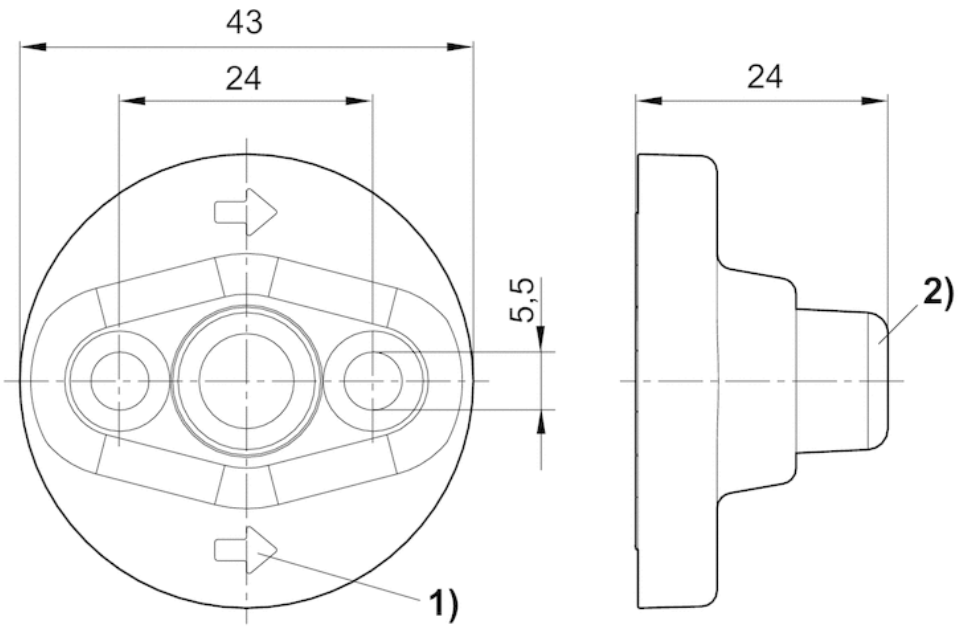
2 mounting screws and 2 O-rings supplied loose.

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 (= Δp ≥ 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/m³
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	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	Voltage tolerance	Voltage tolerance
	AC 60 Hz	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
	AC 60 Hz	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 Qn at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

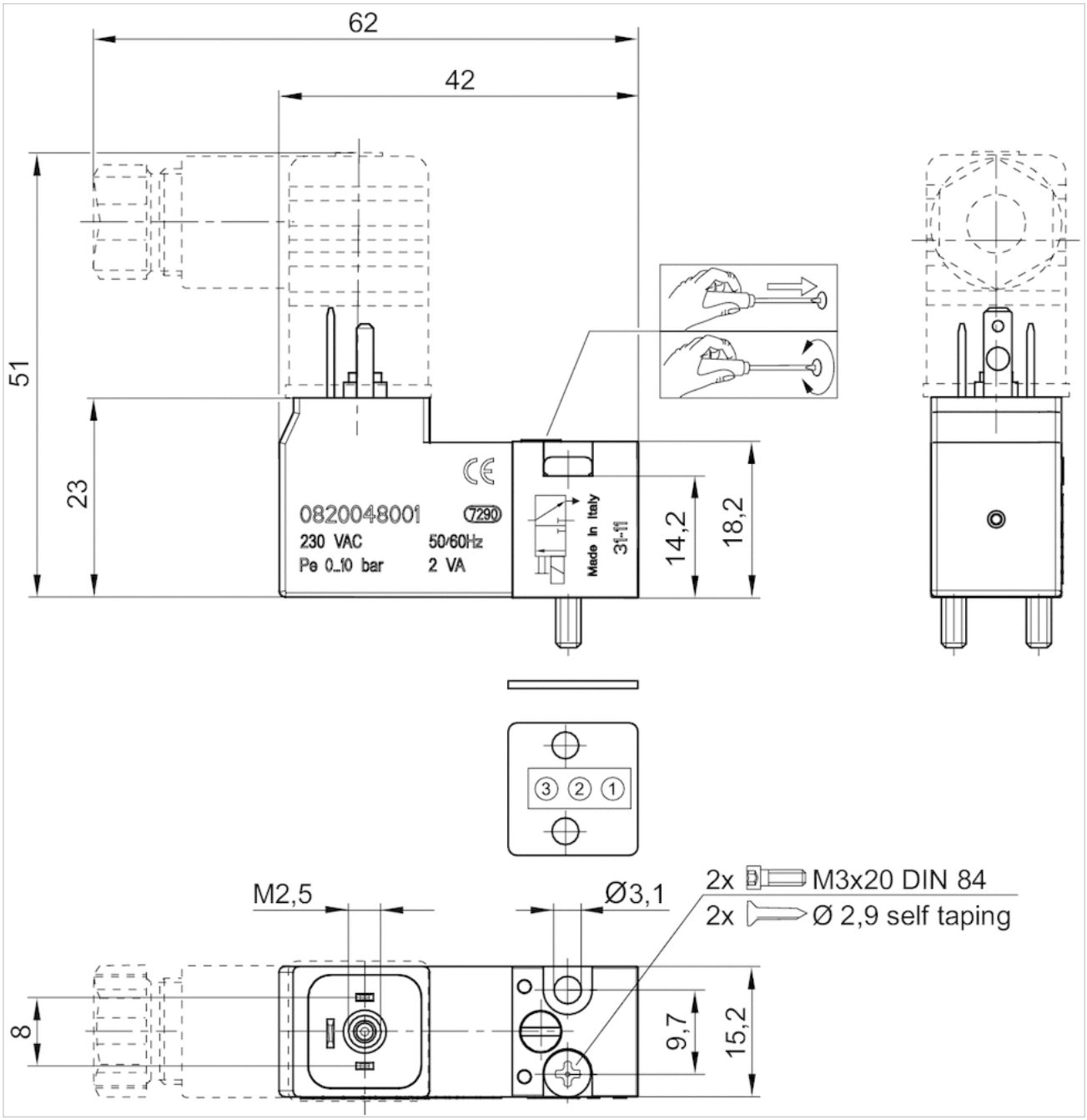
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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

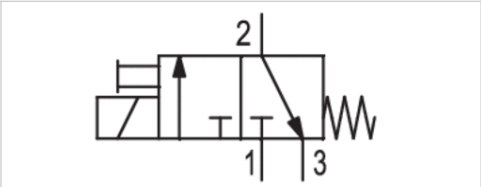
Dimensions



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/m³
Nominal flow 1 ▸ 2	18 l/min
Nominal flow 2 ▸ 3	24 l/min
Protection class acc. to DIN EN 61140 Electrically	Class I
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

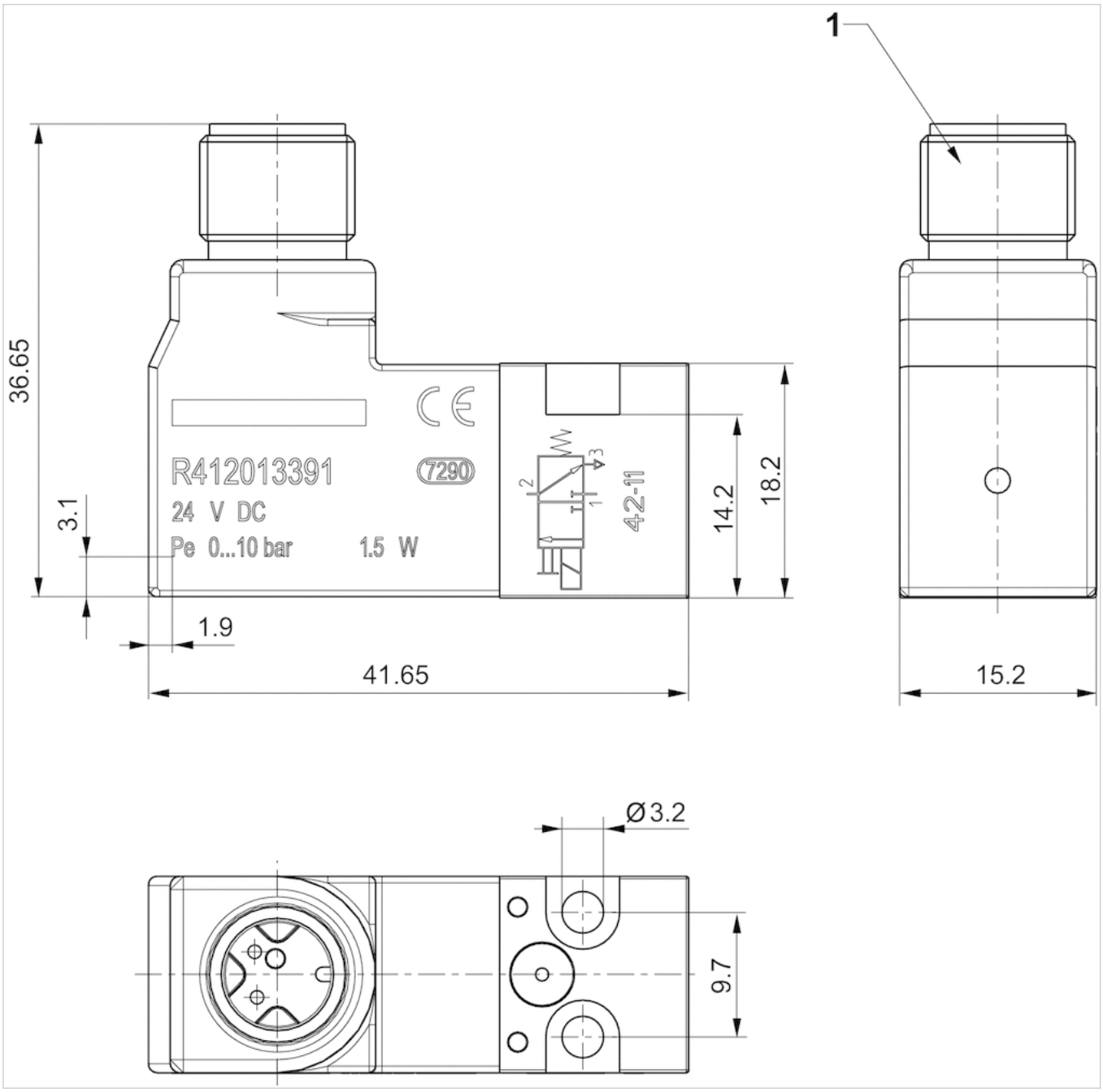
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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/m³
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	P-strip
mounting screws	M4
Weight	0.06 kg

Technical data

Part No.		MO	Compressed air connection	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 Qn 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).

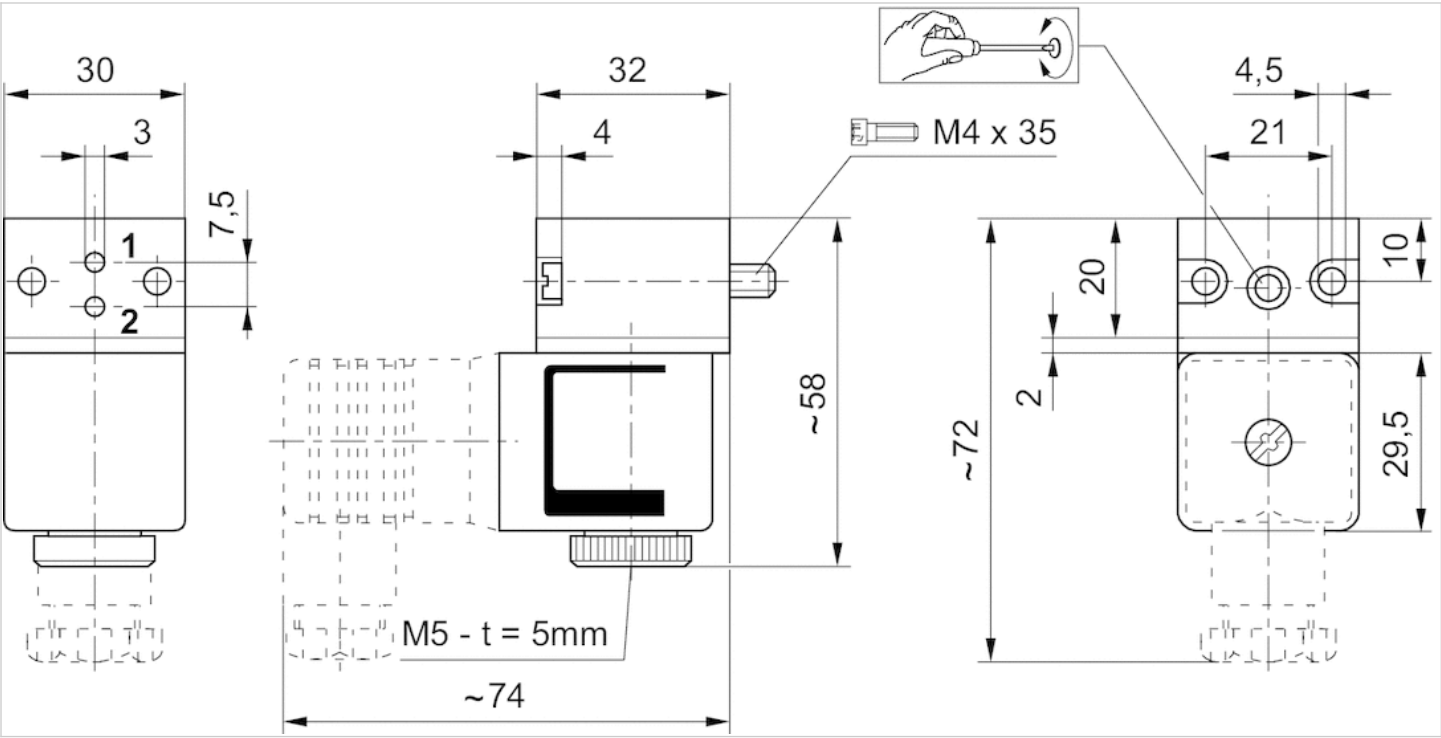
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Technical information

Material	
Housing	Plastic
Seals	Fluorocaoutchouc

Dimensions

Dimensions

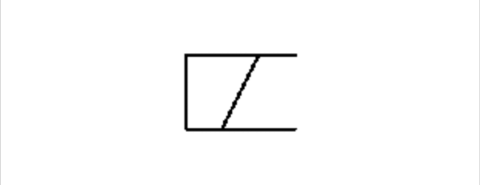


t = depth

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	-	-

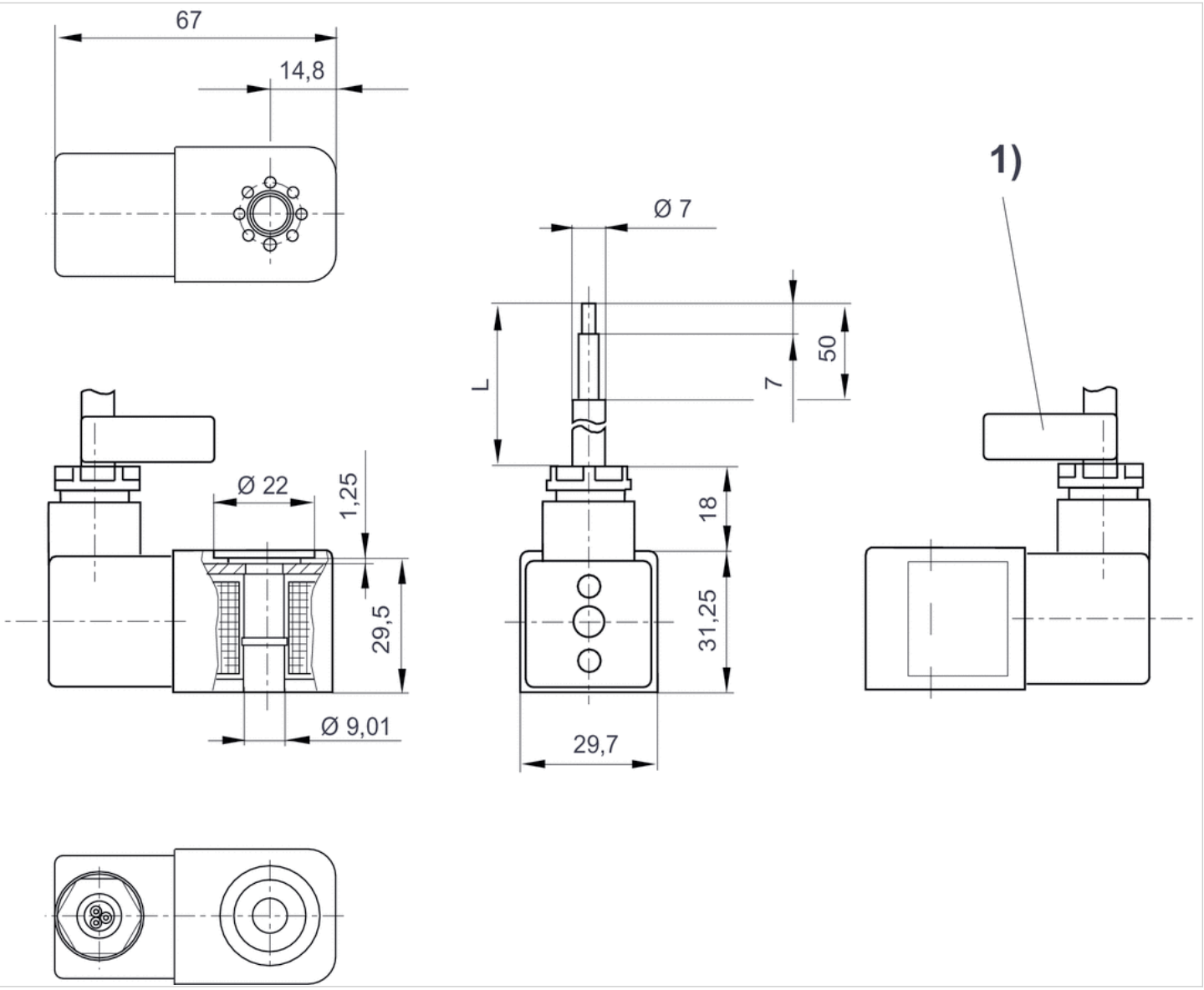
Part No.	Voltage tolerance	Voltage tolerance	Power consumption	Holding power
	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA
1827414298	-	-10% / +10%	-	3 VA
1827414299	-	-10% / +10%	-	2.9 VA
1827414303	-10% / +10%	-	3.25 W	-
1827414304	-10% / +10%	-	3.25 W	-

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

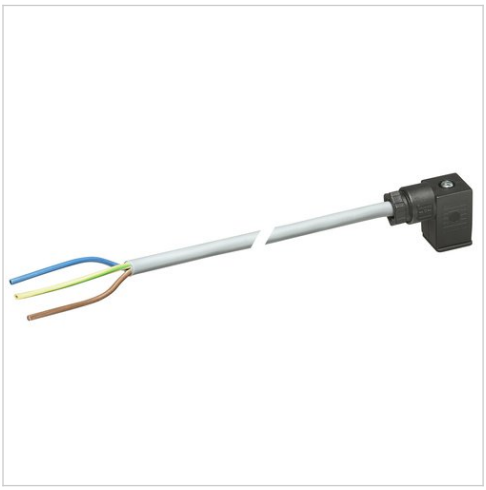
Dimensions



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

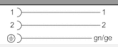
Valve plug connector, series CON-VP

- 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 mm²
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

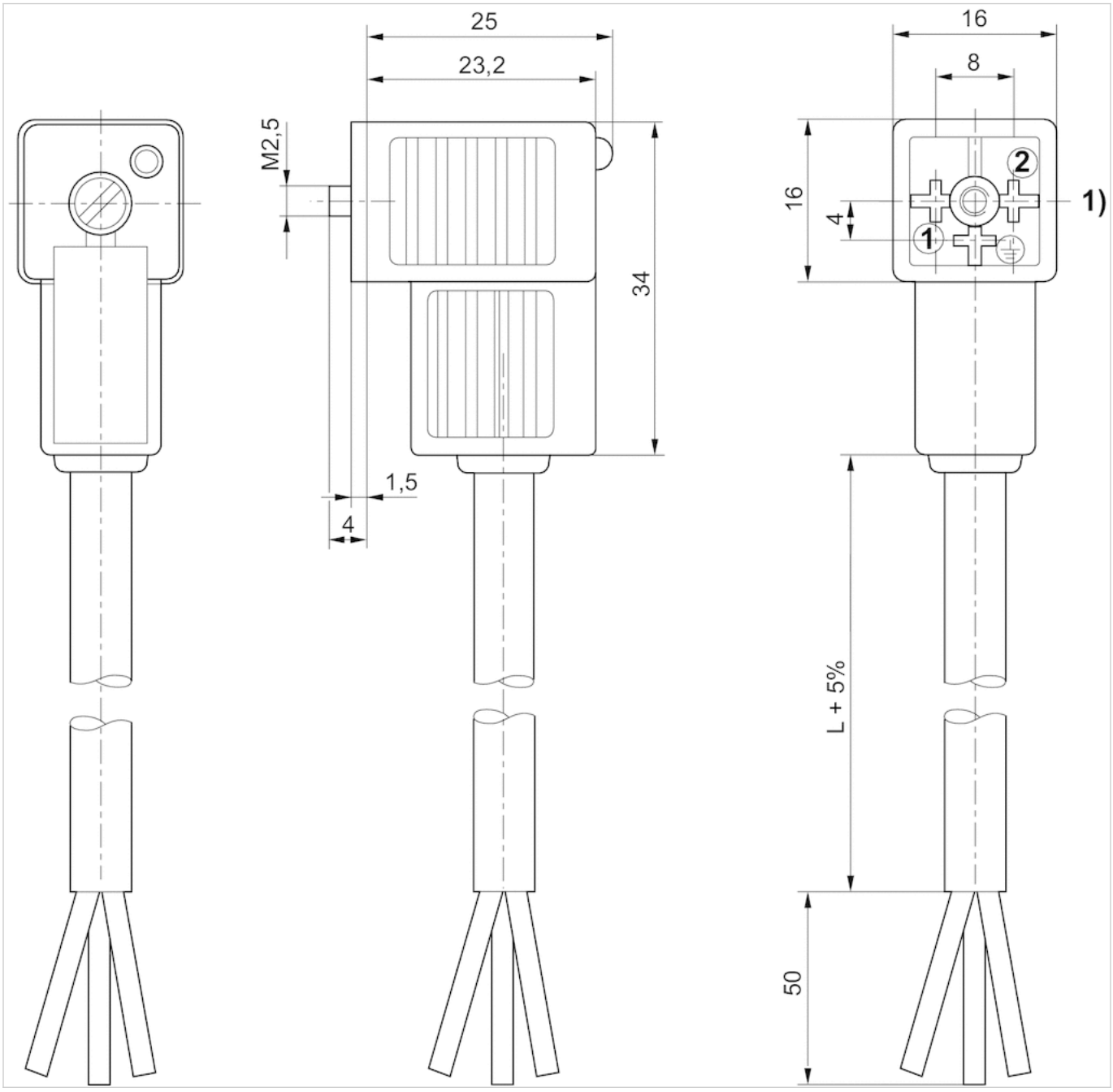
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

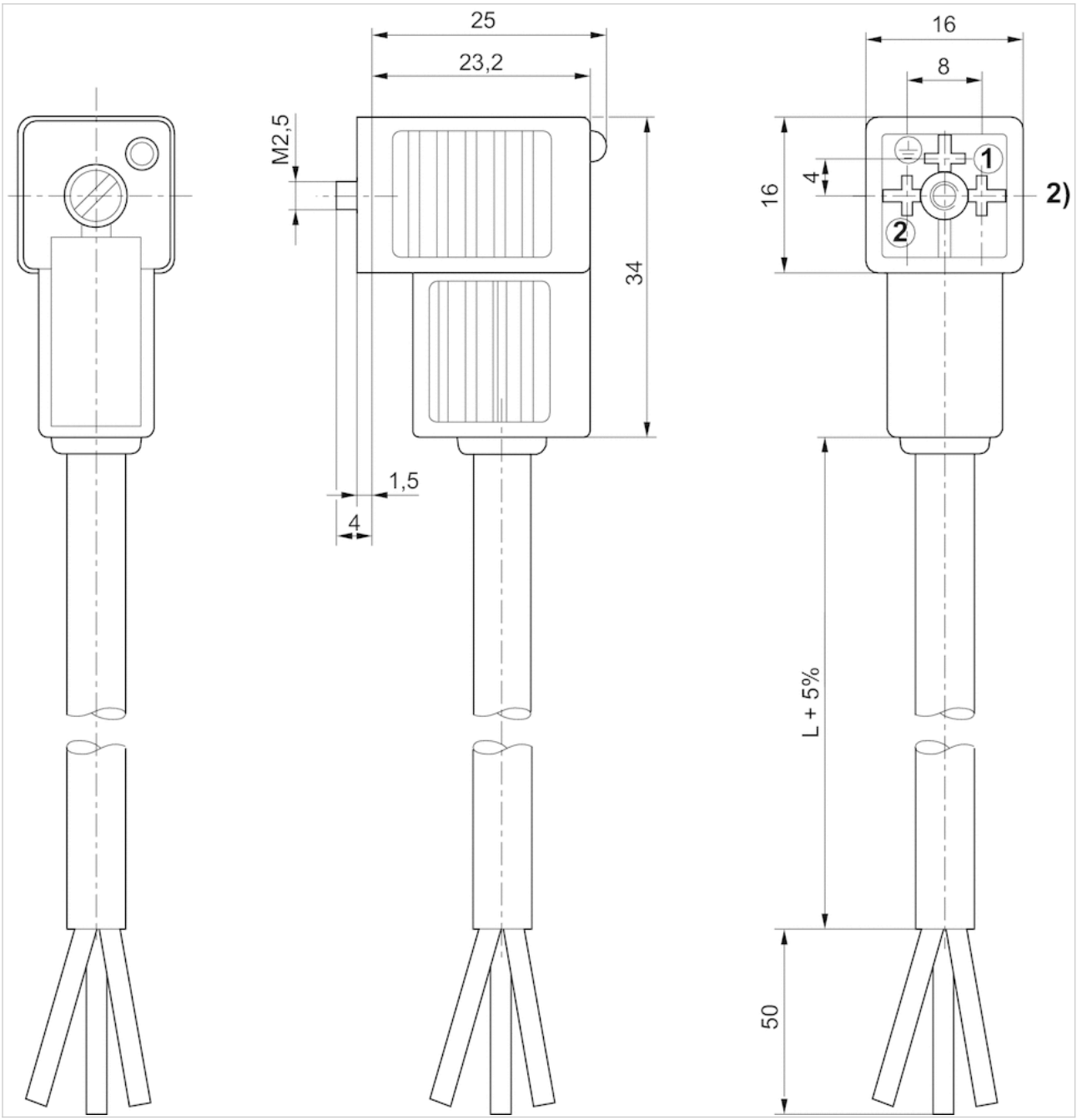
Dimensions

Fig. 1



1) 0° female insert

Fig. 2

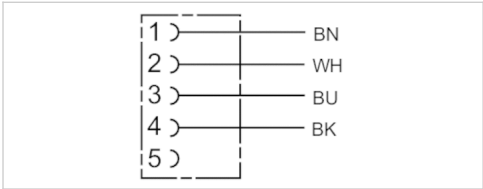


2) 180° female insert

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 mm²
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

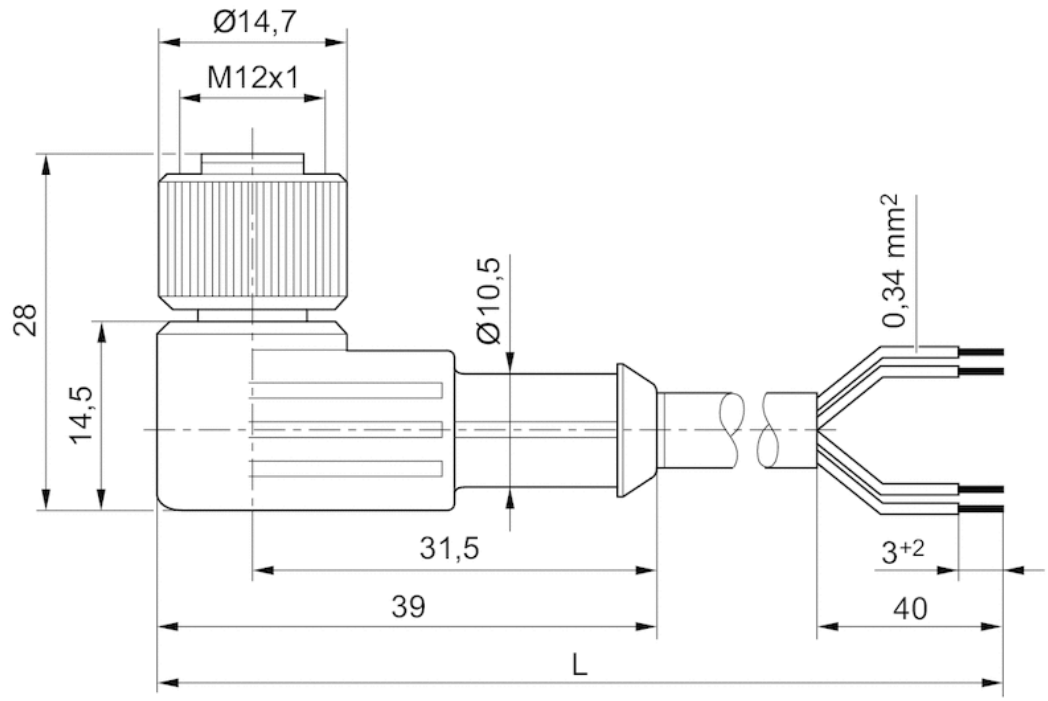
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

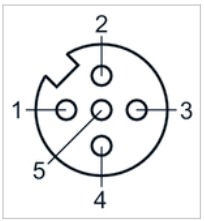
Dimensions



L = length

Pin assignments

Pin assignment, socket



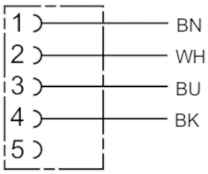
(1) BN=brown
(2) WH=white
(3) BU=blue
(4) BK=black
(5) not assigned

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 mm²
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

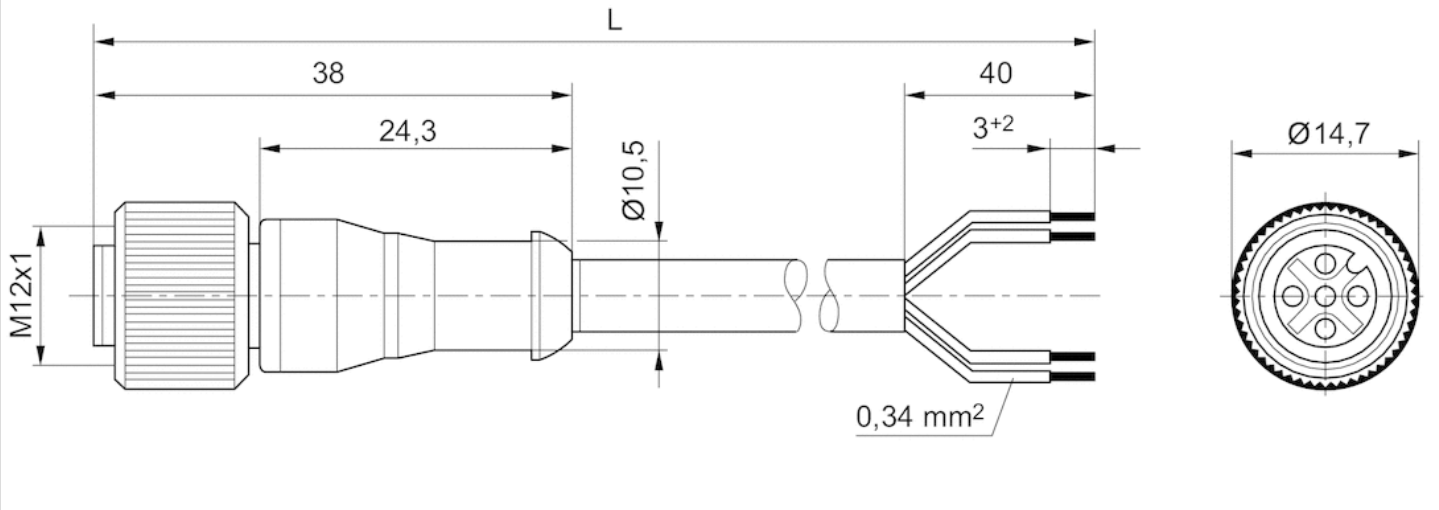
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

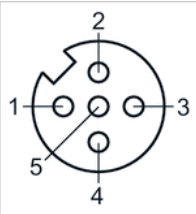
Dimensions



L = length

Pin assignments

Pin assignment, socket

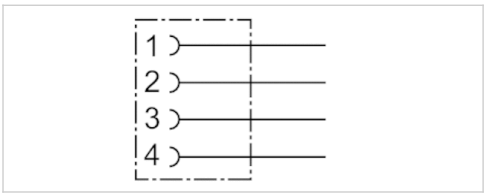


(1) BN=brown
(2) WH=white
(3) BU=blue
(4) BK=black
(5) not assigned

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

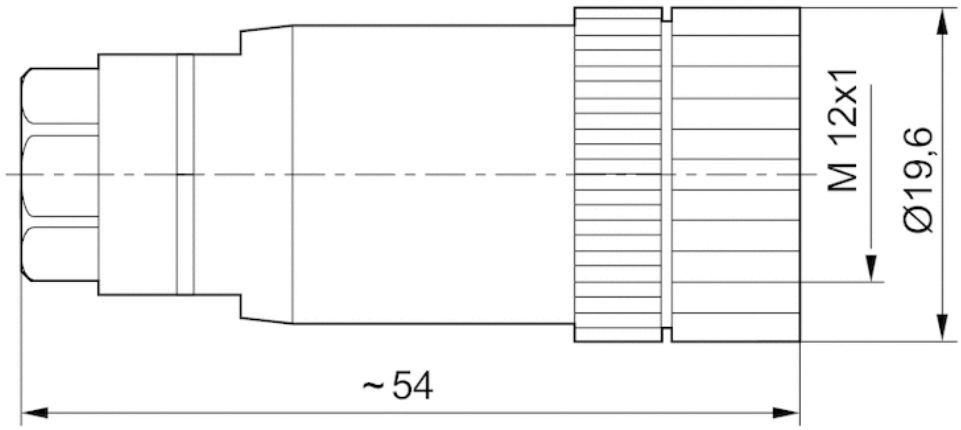
Part No.	Max. current	suitable cable-Ø min./max
1834484177	4 A	4 / 6 mm

Technical information

Material	
Housing	Polyamide

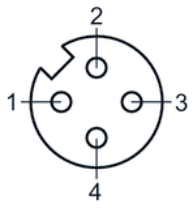
Dimensions

Dimensions



Pin assignments

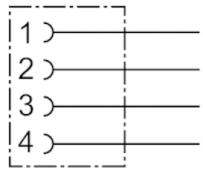
Pin assignment, socket



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

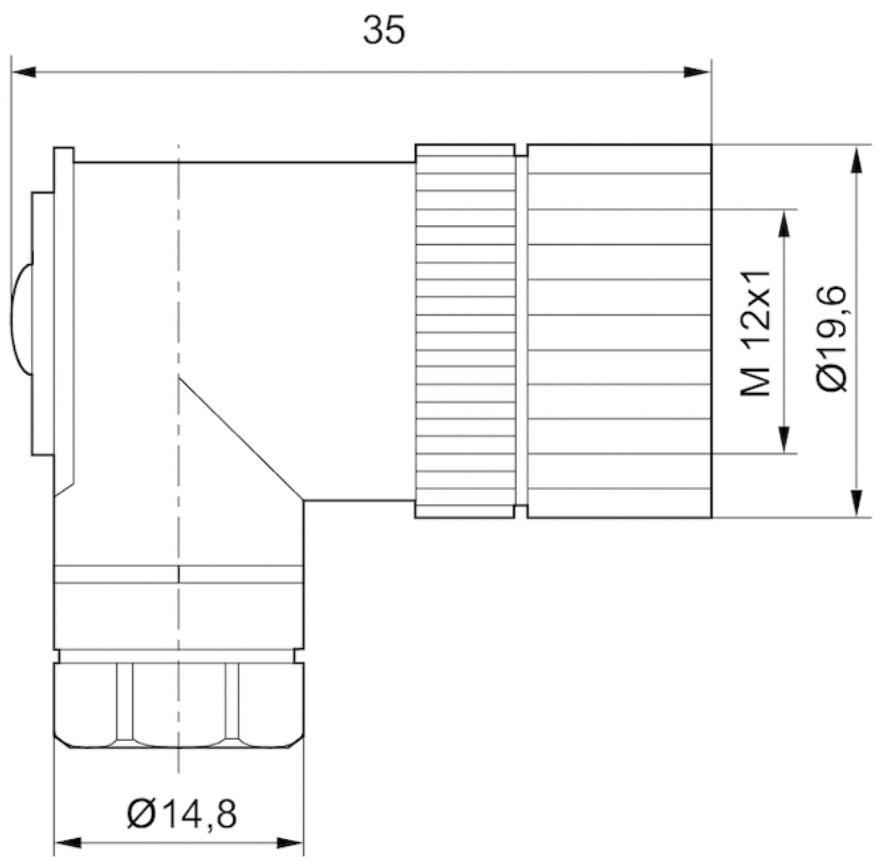
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

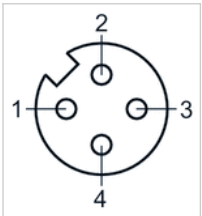
Dimensions

Dimensions



Pin assignments

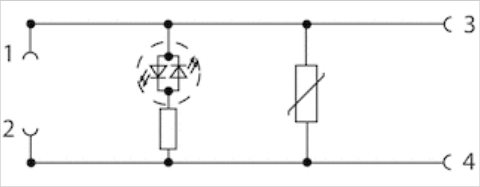
Pin assignment, socket



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

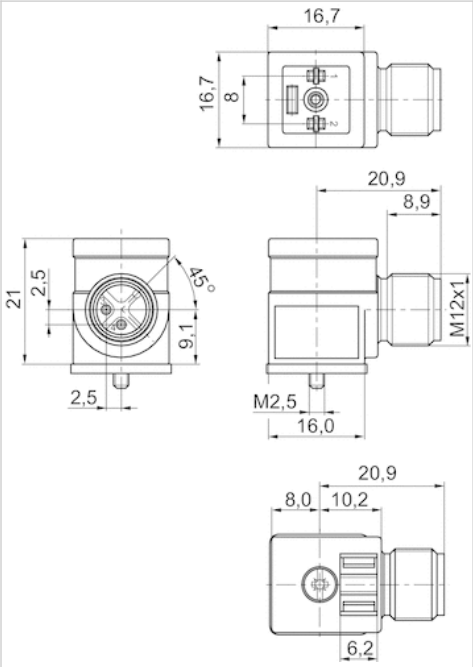
Part No.	Max. current	Protective circuit	Contact assignment	LED status display
R412009553	1 A	Varistor	2+E	Yellow

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

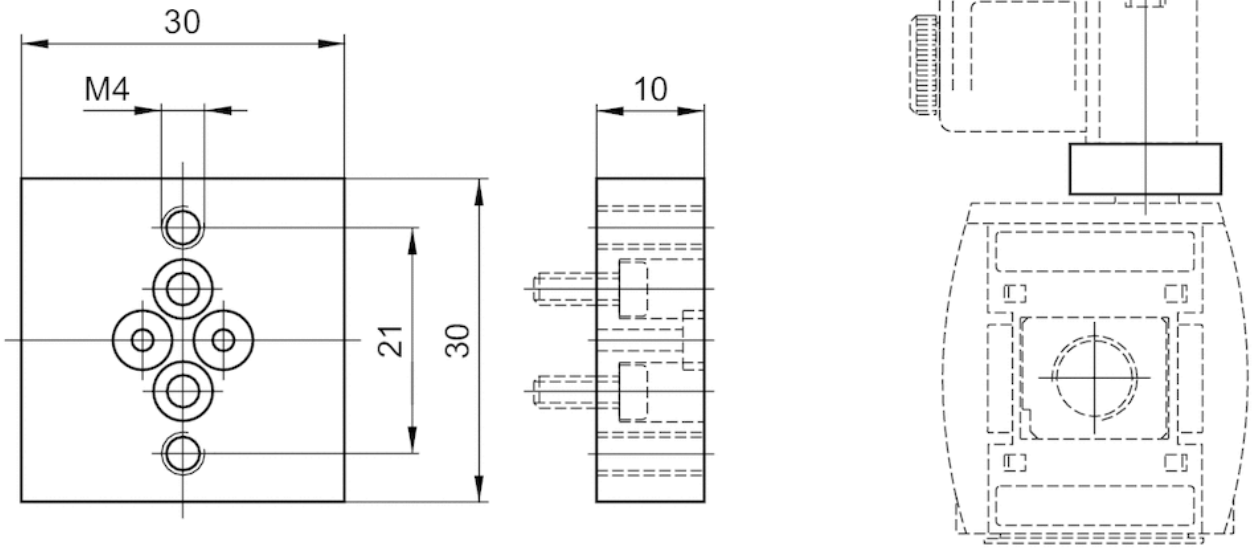
Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot

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

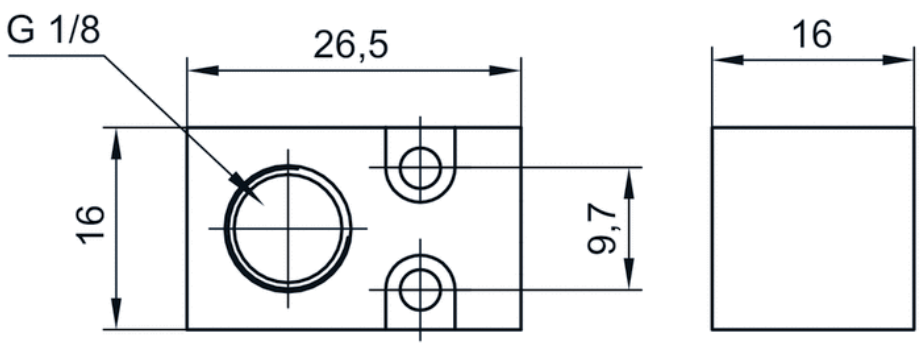
Delivery incl. 2 mounting screws M3x20, Flat gasket

Technical information

Material	
Material	Aluminum

Dimensions

Dimensions in mm



Adapter for external pilot air



Ambient temperature min./max.	50 °C
Weight	0.015 kg

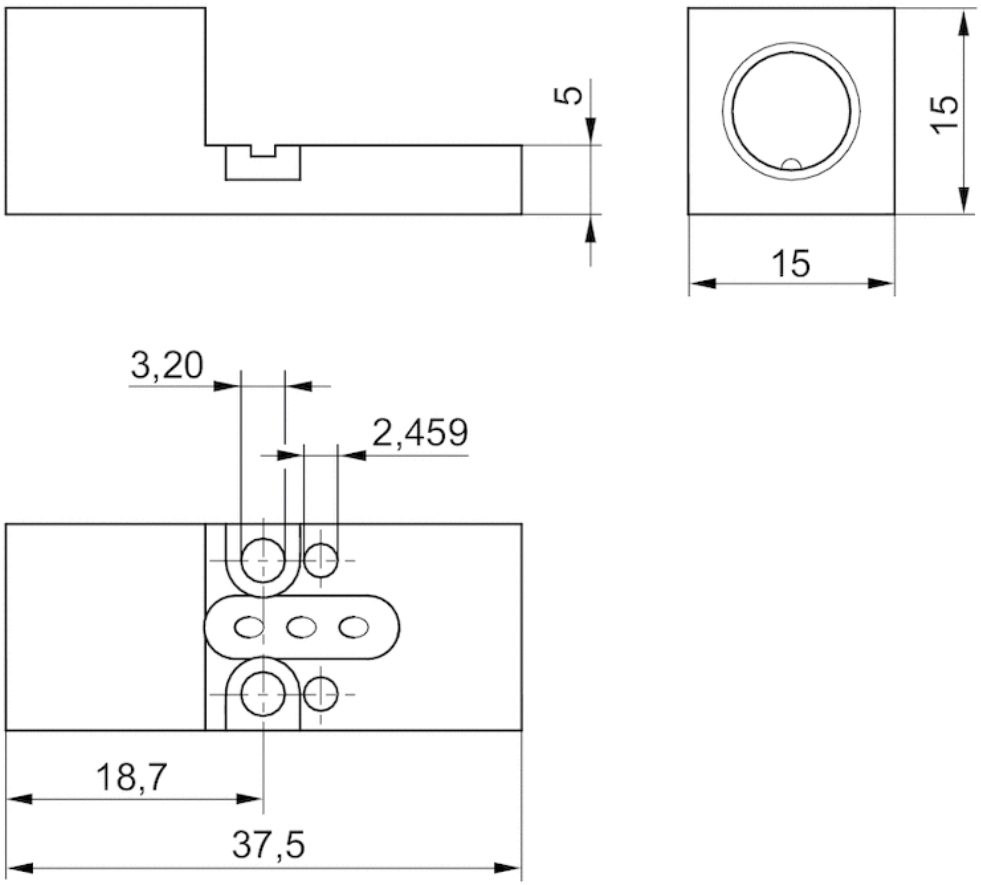
Technical data

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

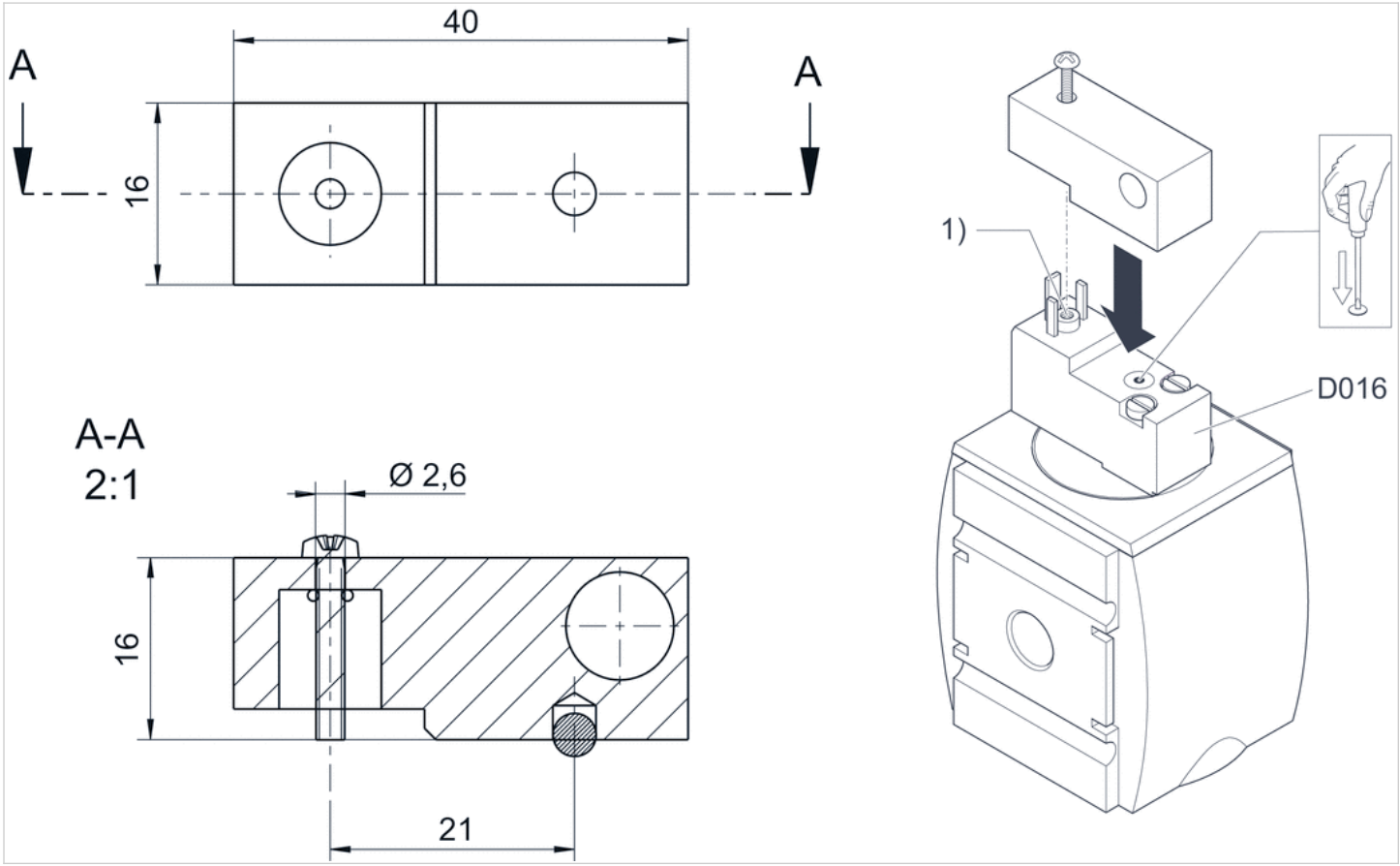
Scope of delivery incl. 1 mounting screw, 1 O-ring

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

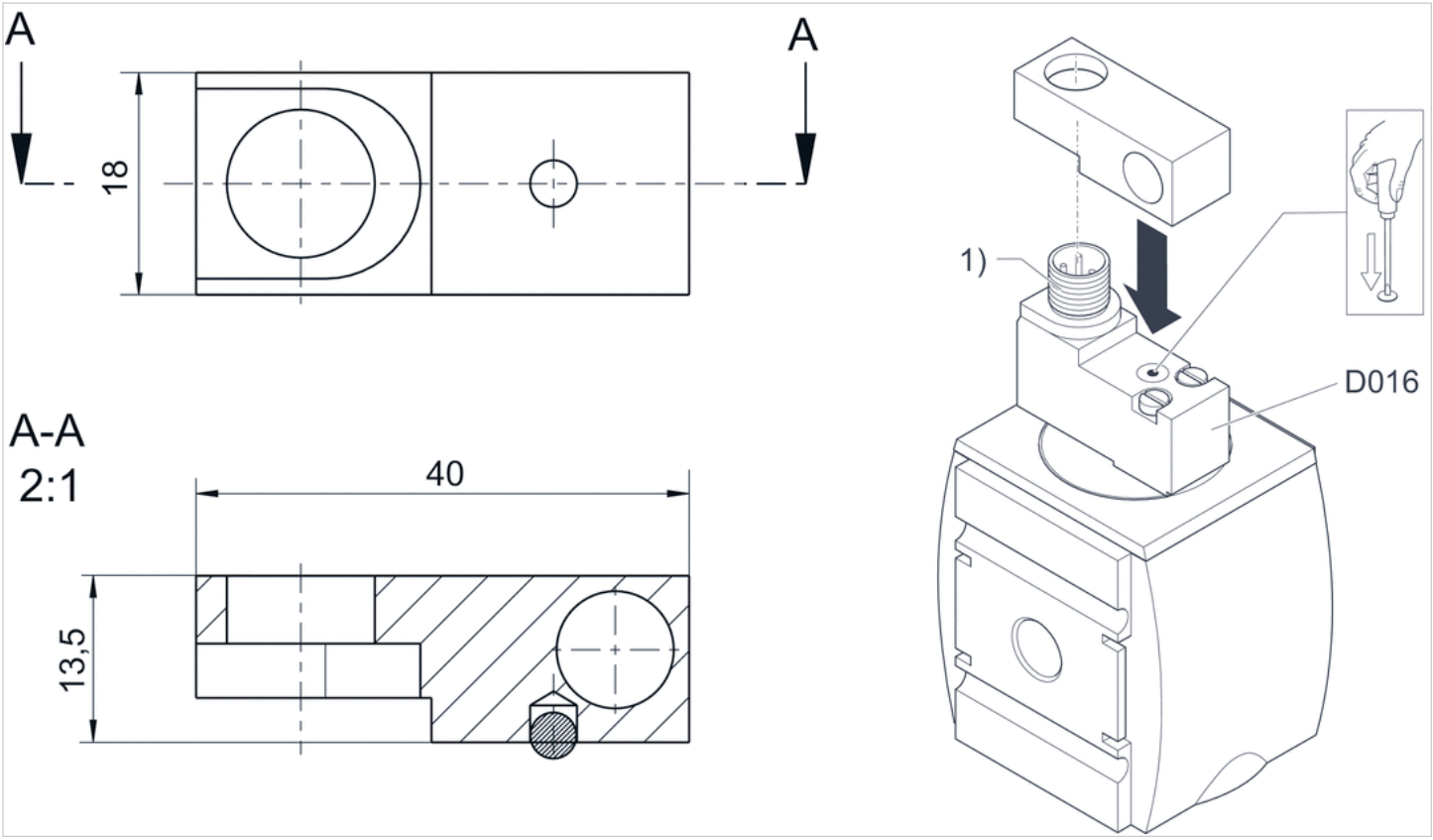
Mounting the assembly aid to the pilot valve using valve plug connector M12x1

Technical information

Material	
Housing	Aluminum

Dimensions

Dimensions in mm



1) M12x1

mortise lock

- for AS2 AS3 AS5



Technical data

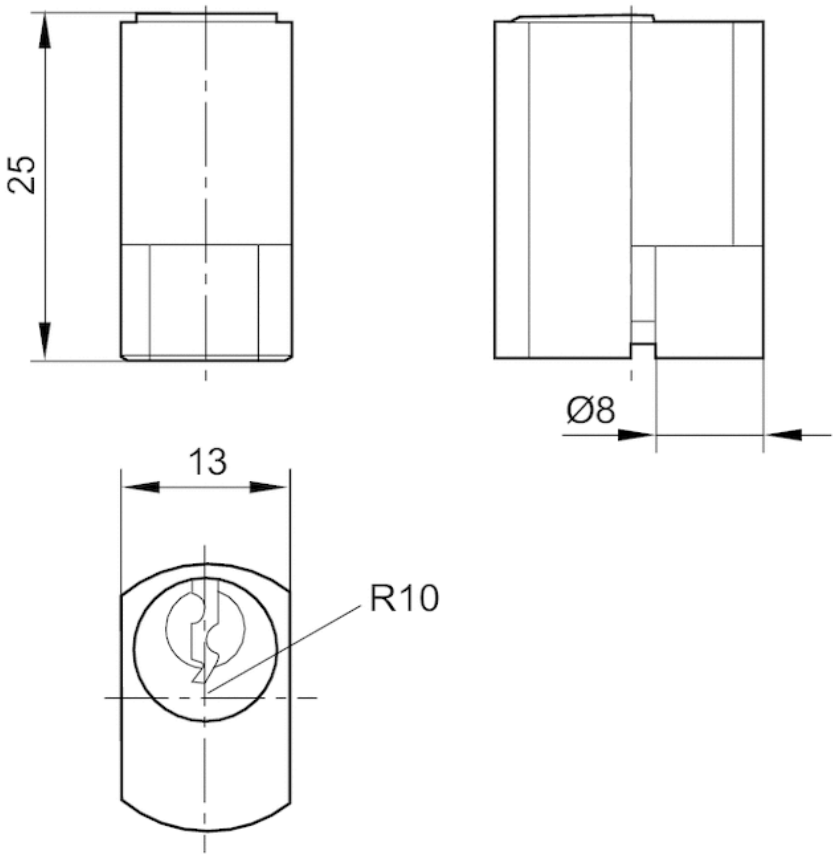
Part No.	Type
R412007959	Standard locking, with key
R412006374	E11 locking, without key

Technical information

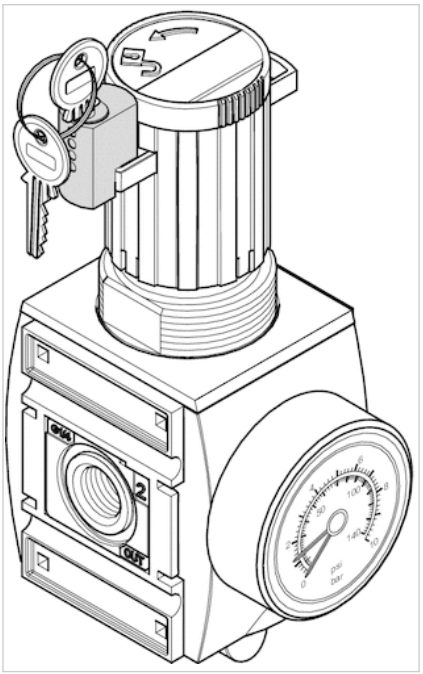
Material	
Housing	Steel

Dimensions

Dimensions in mm



Application example



Key for E11 locking

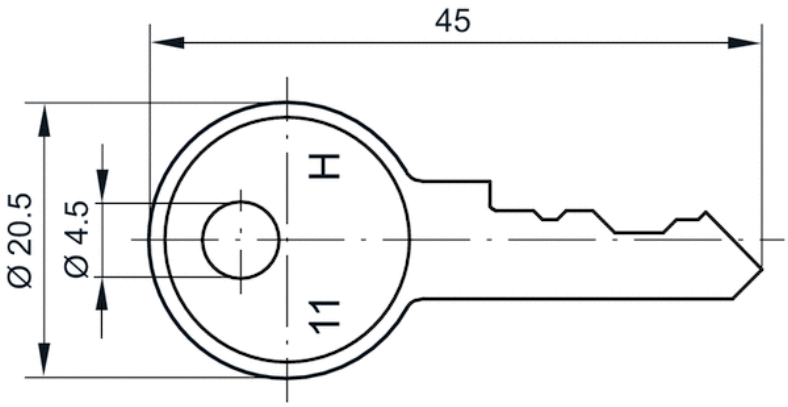


Technical data

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/m³
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

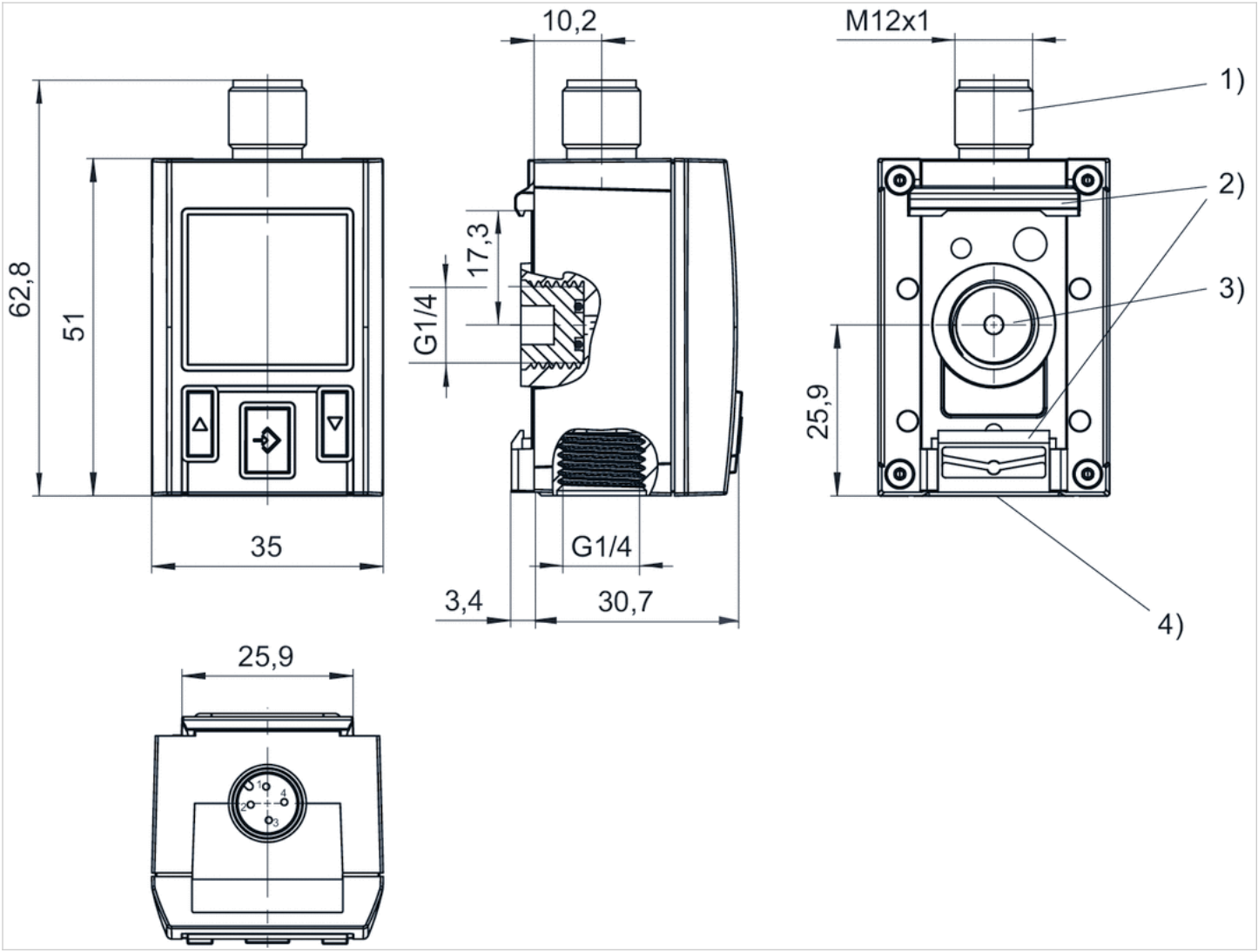
Alternative pressure connection (G1/4) on the rear side (closed with plug)
Display color selectable, red or green

Technical information

Material	
Housing	Polycarbonate
Seals	Acrylonitrile butadiene rubber
Blanking plug	Polyoxymethylene
Electr. connection	Aluminum, black anodized

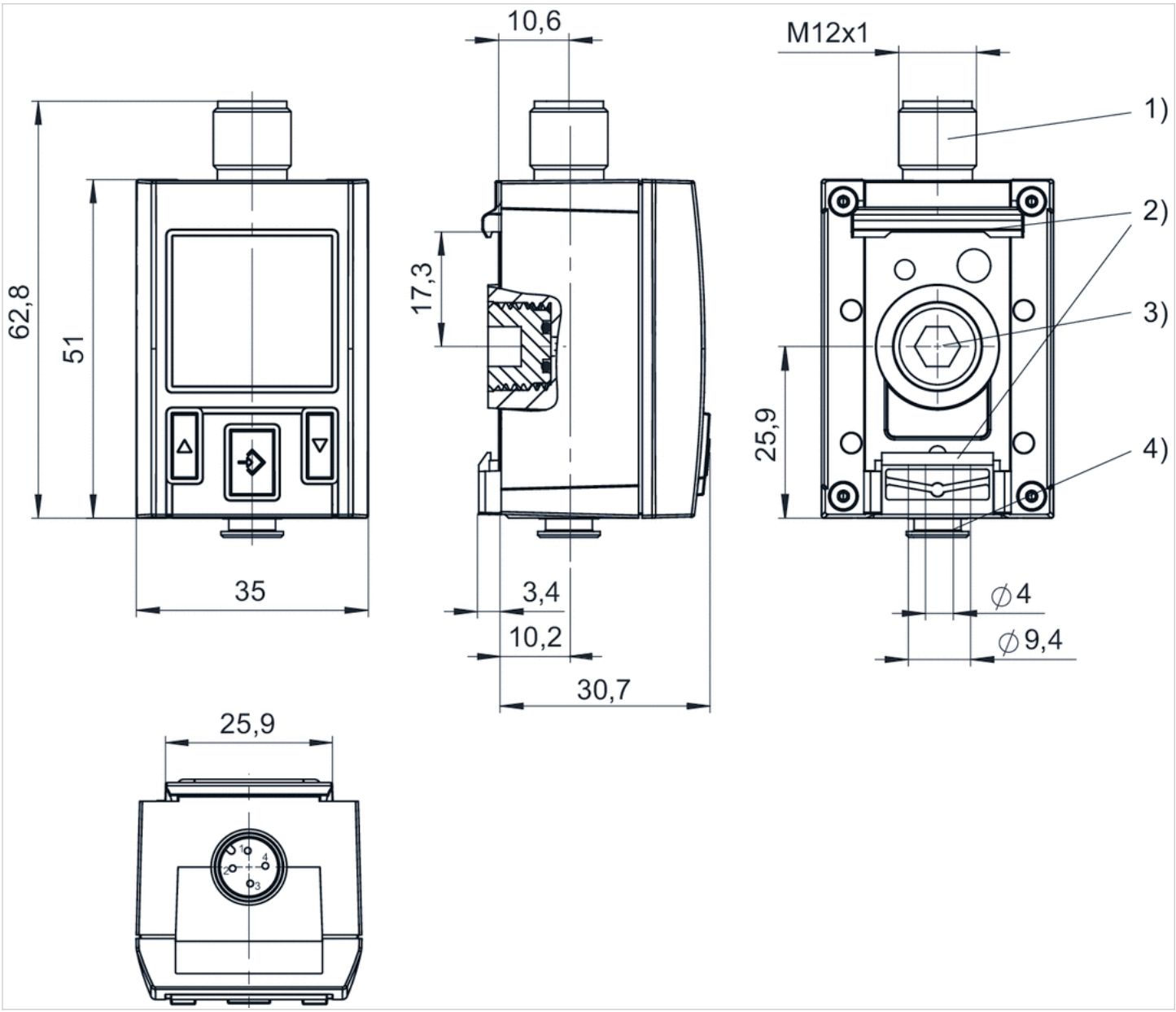
Dimensions

Fig. 1



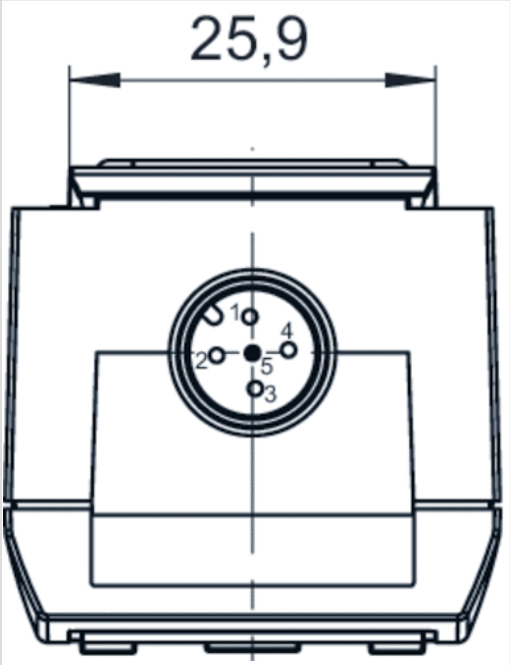
1) M12x1 electrical connection
2) Mounting for hat rail and wall mounting
3) Alternative pressure connection (G1/4) closed with plug
4) Pressure connection G1/4

Fig. 2

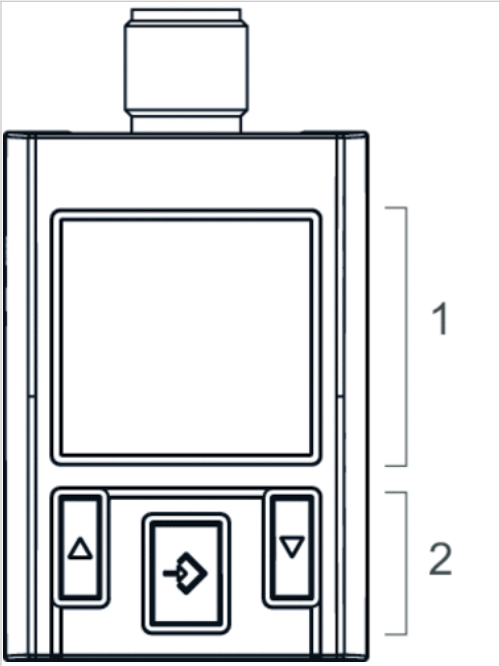


1) M12x1 electrical connection
2) Mounting for hat rail and wall mounting
3) Alternative pressure connection (G1/4) closed with plug
4) Pressure connection, tubing Ø 4 mm

Fig. 3, Electr. connection for leak test



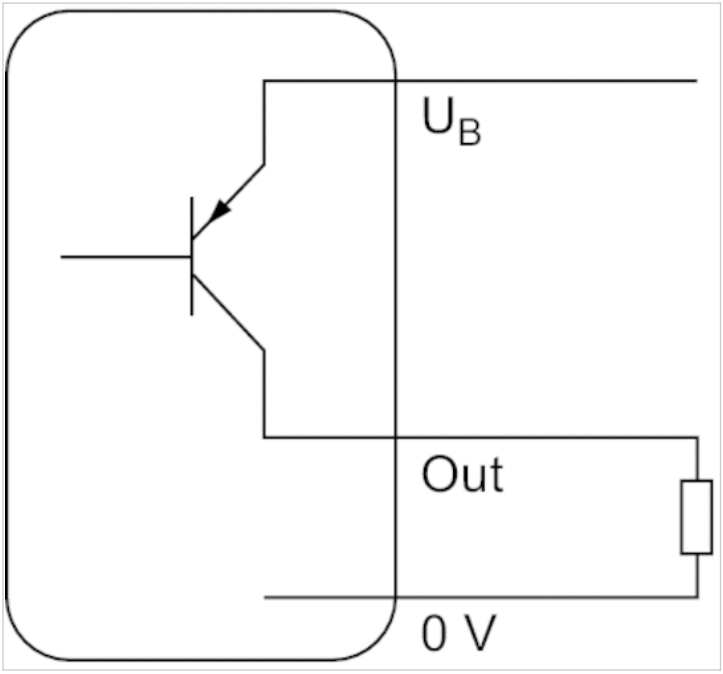
Display and operation area



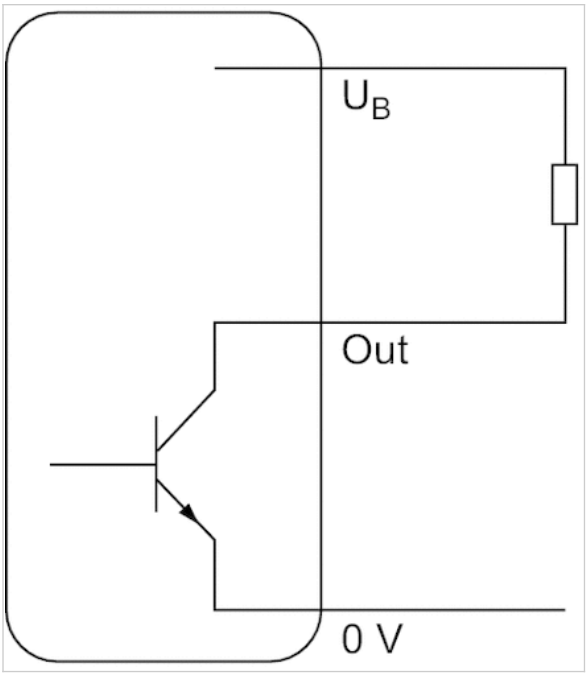
1) LCD display
2) Control panel with 3 buttons

Diagrams

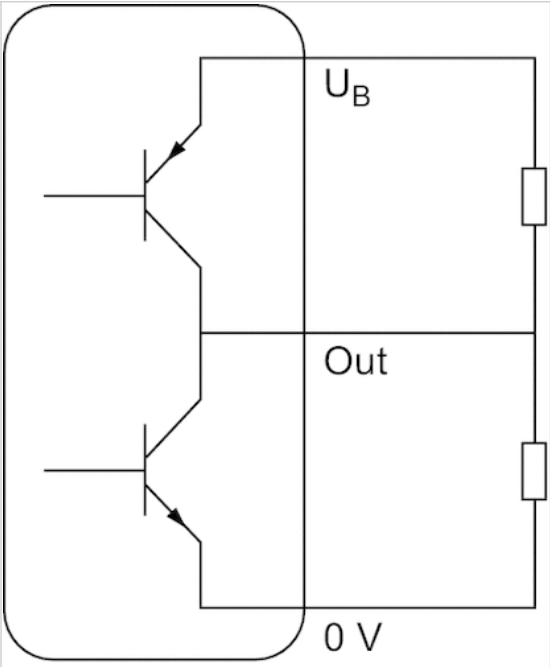
Operating mode, PNP



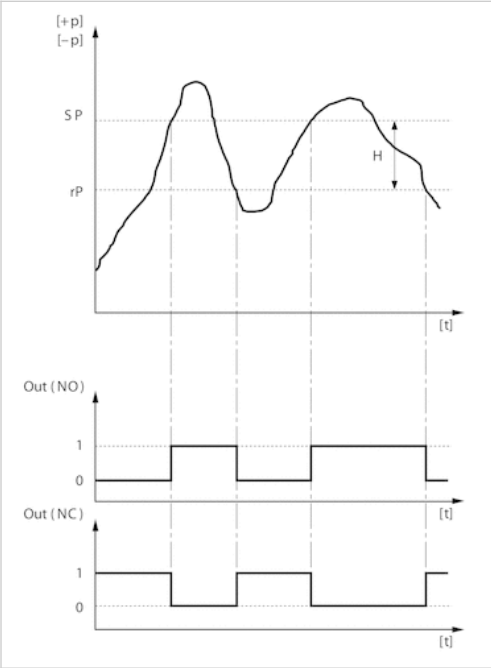
Operating mode, NPN



Operating mode, Push-pull

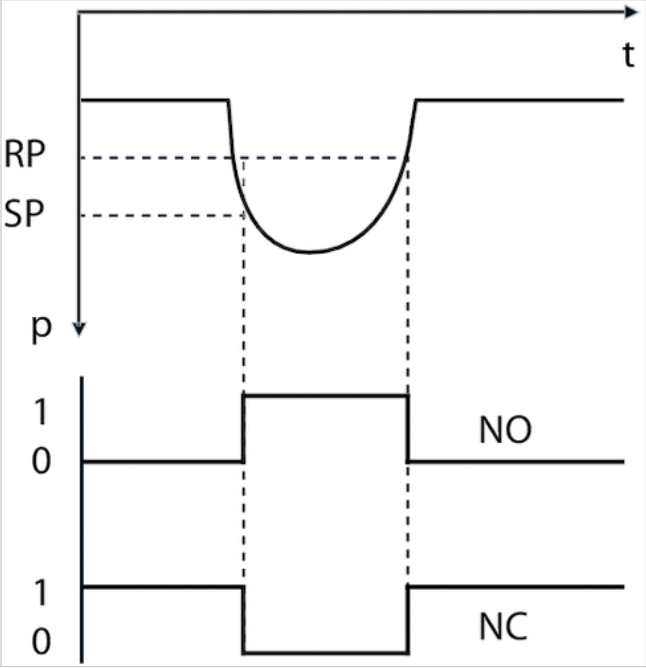


Hysteresis function: switching and resetting behavior dependent on pressure p and time t, in case of overpressure

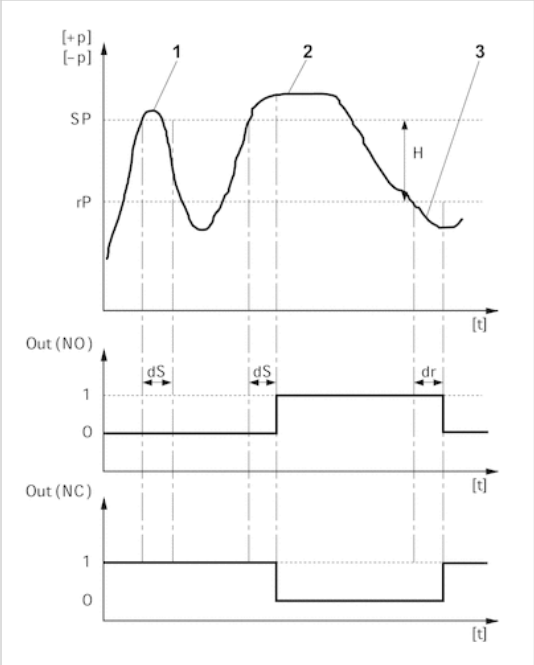


H: Hysteresis
SP = switching point
RP = resetting point
Out (NC): switch output, break contact
Out (NO): switch output, make contact

Hysteresis function: switching and resetting behavior dependent on pressure p and time t, In case of underpressure

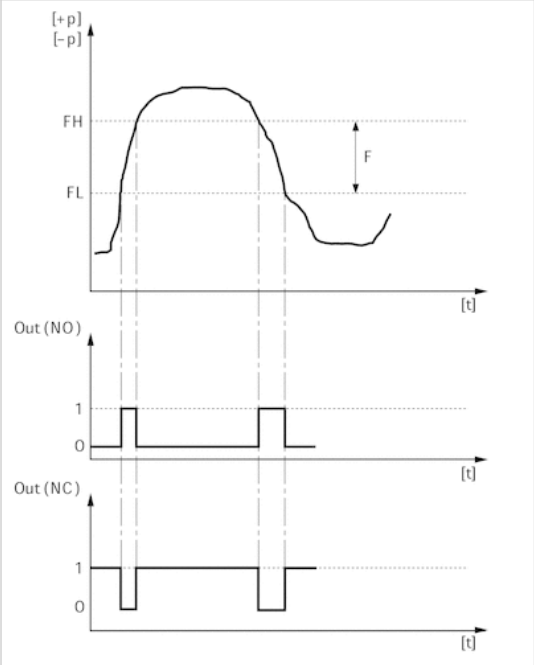


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



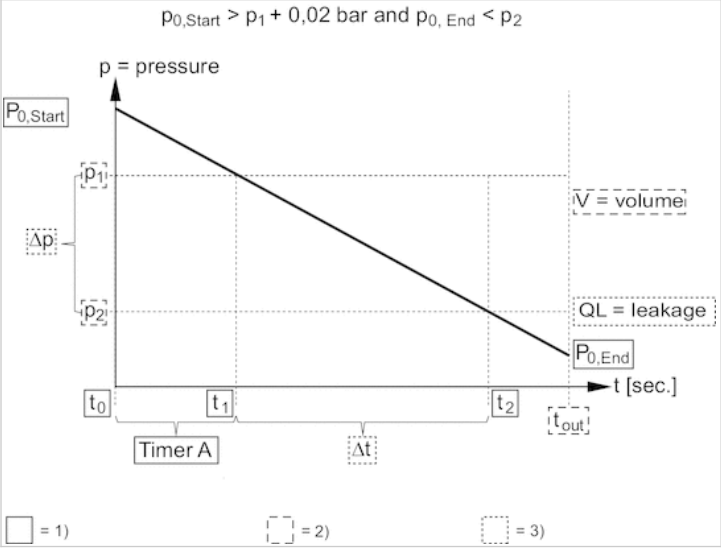
H: Hysteresis
SP = switching point
RP = resetting point
Out (NC): switch output, break contact
Out (NO): switch output, make contact
dS: switching delay
dR = reset delay
1) period of pressure over the switching point dS: pressure sensor does not switch
2) Period of pressure over the switching point > 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

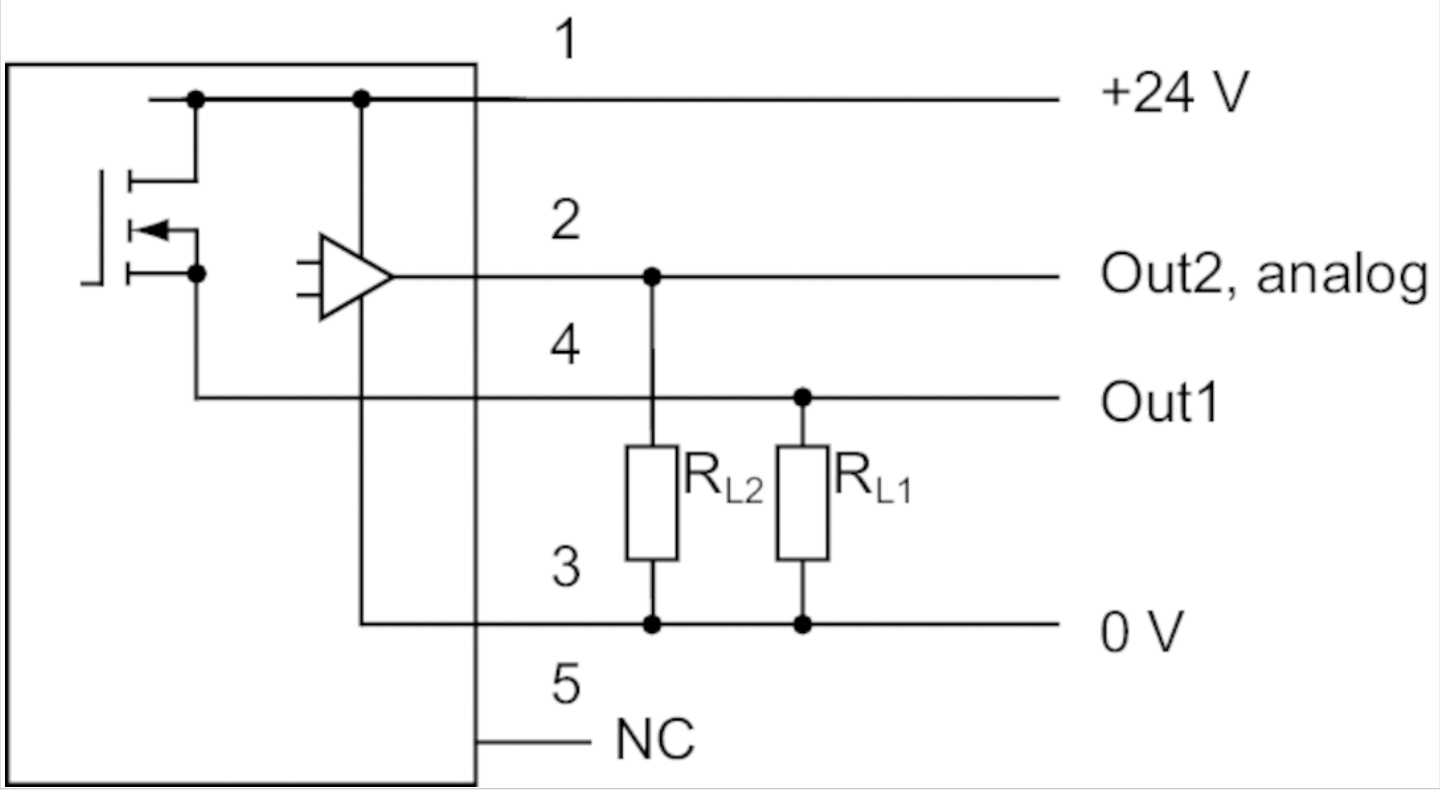
Leakage characteristic



1) Internally stored parameter
2) Adjustable parameter
3) Output value

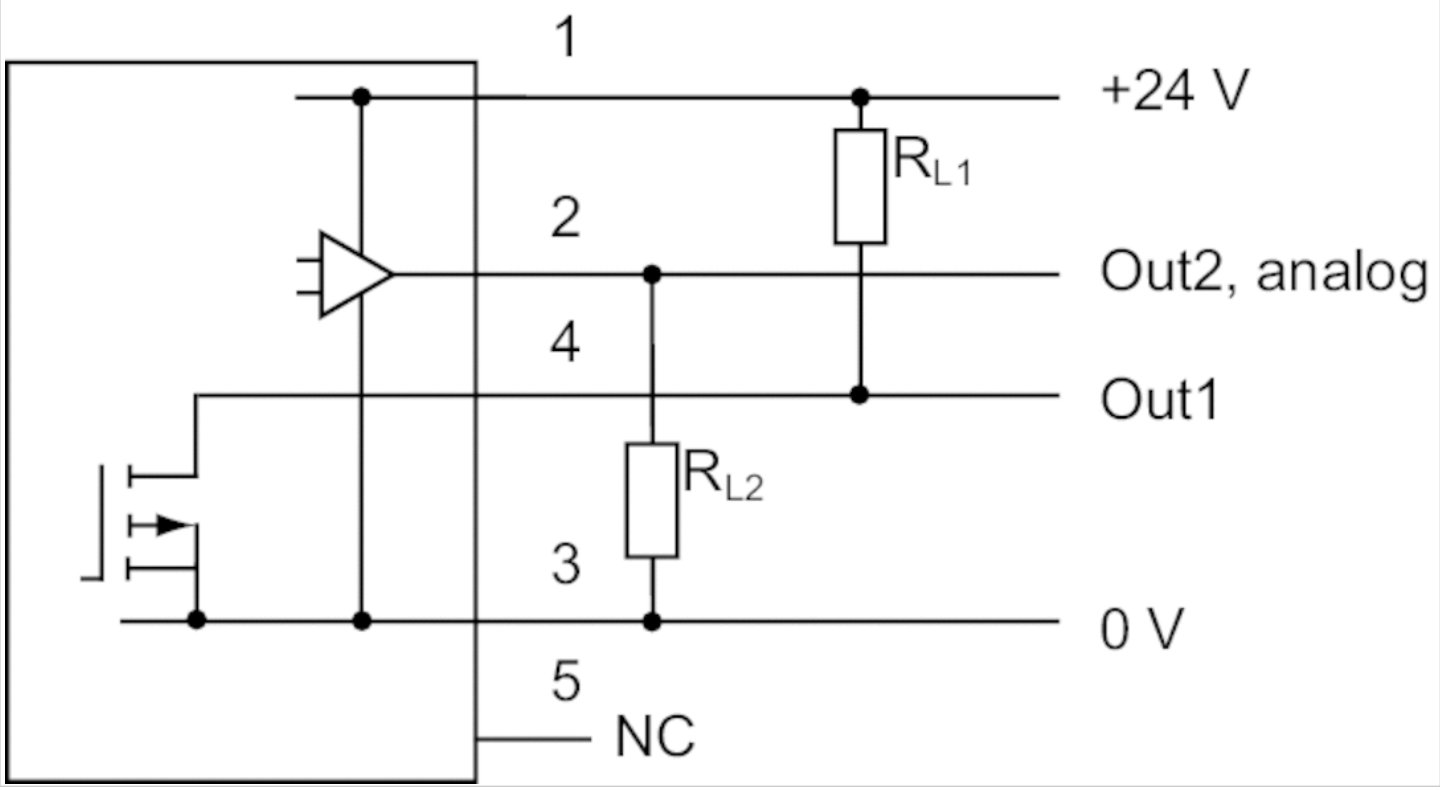
Circuit diagram

Block diagram, 1x PNP and 1x analog



RL = storable postion

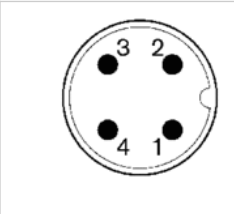
Block diagram, 1x NPN and 1x analog



RL = storable postion

Pin assignments

Pin assignments, M12x1, 4-pin



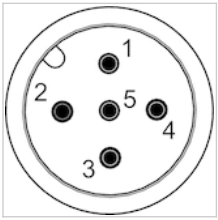
Pin	1		
Allocation	operational voltage + UB		

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

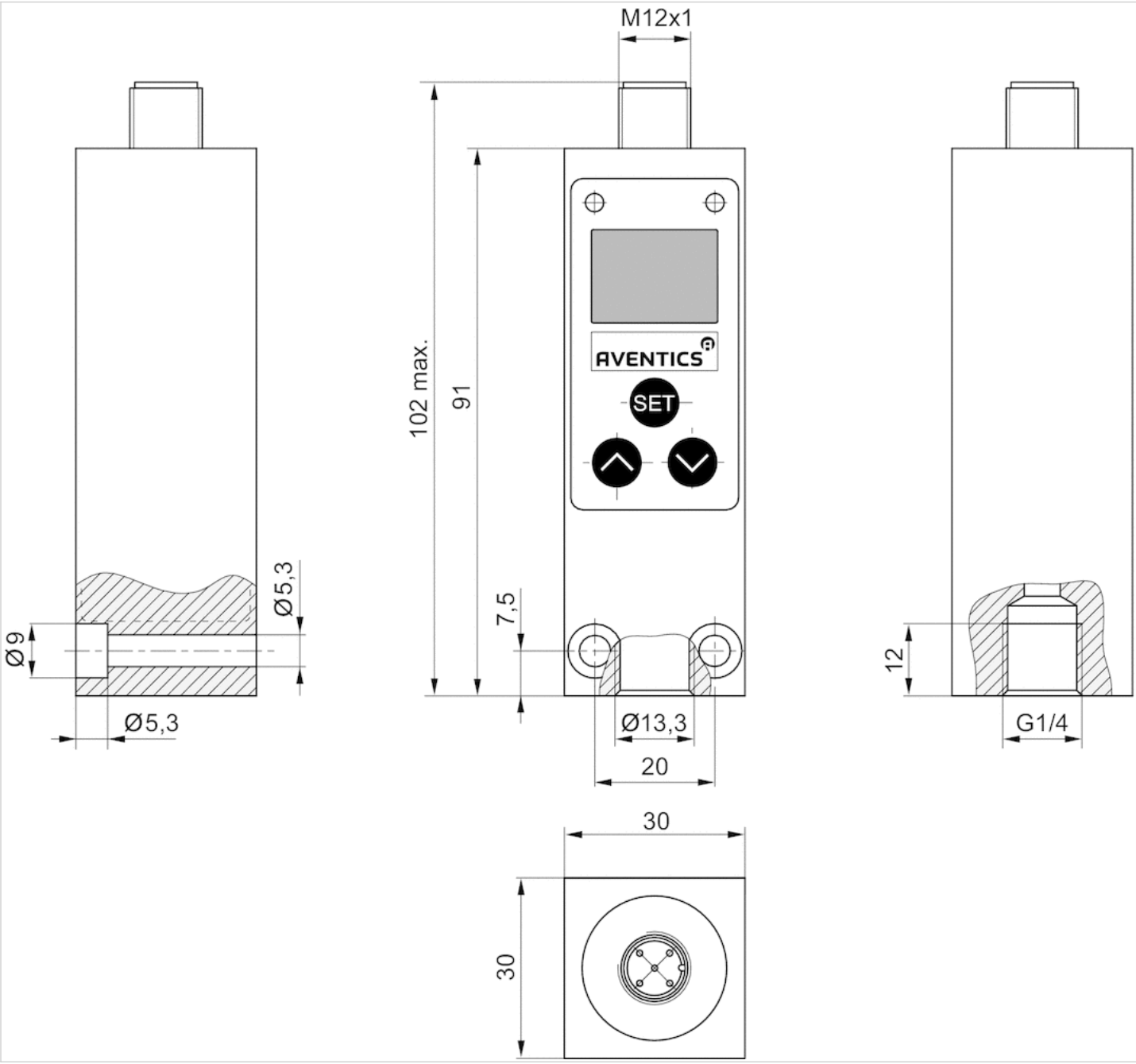
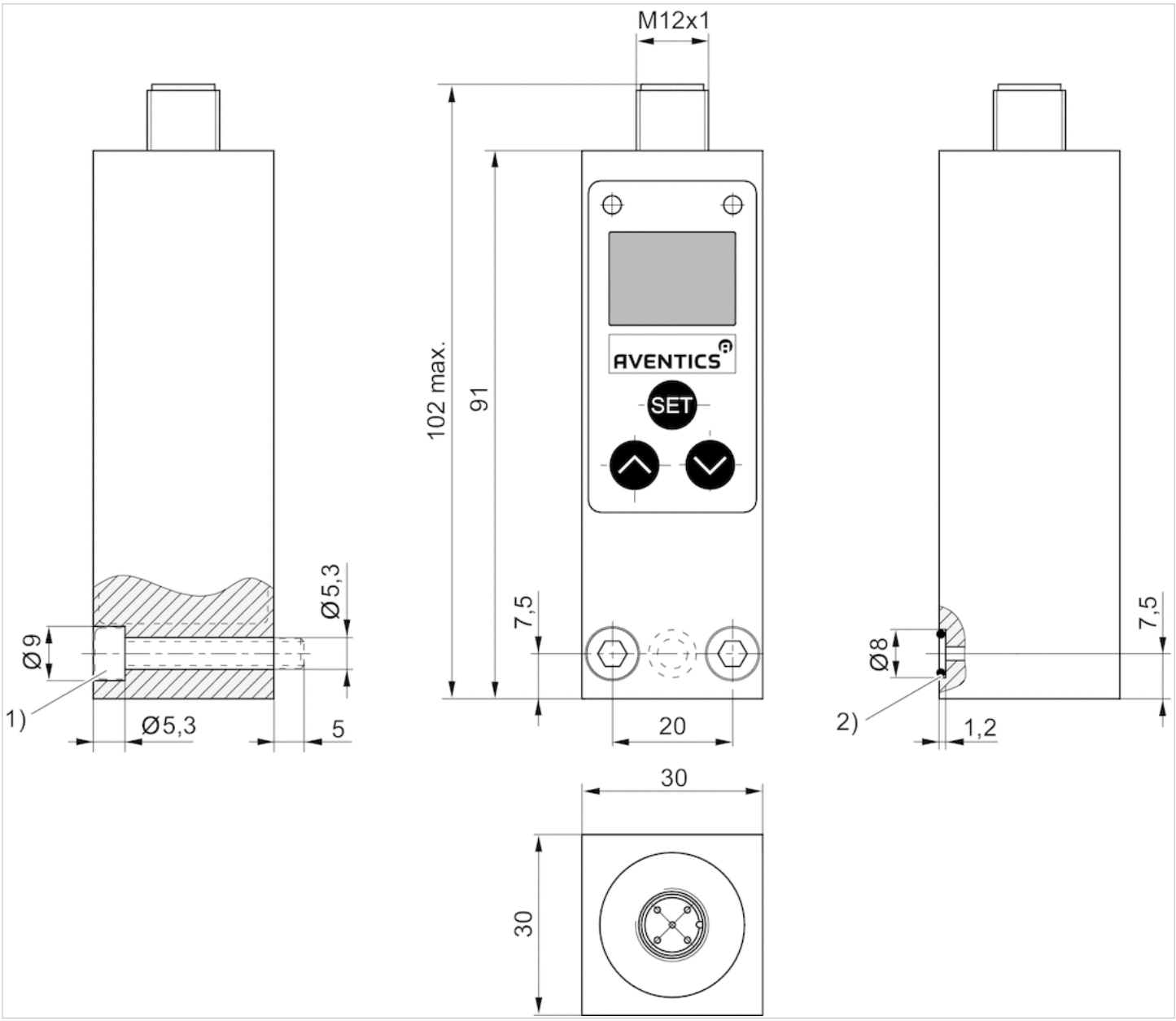
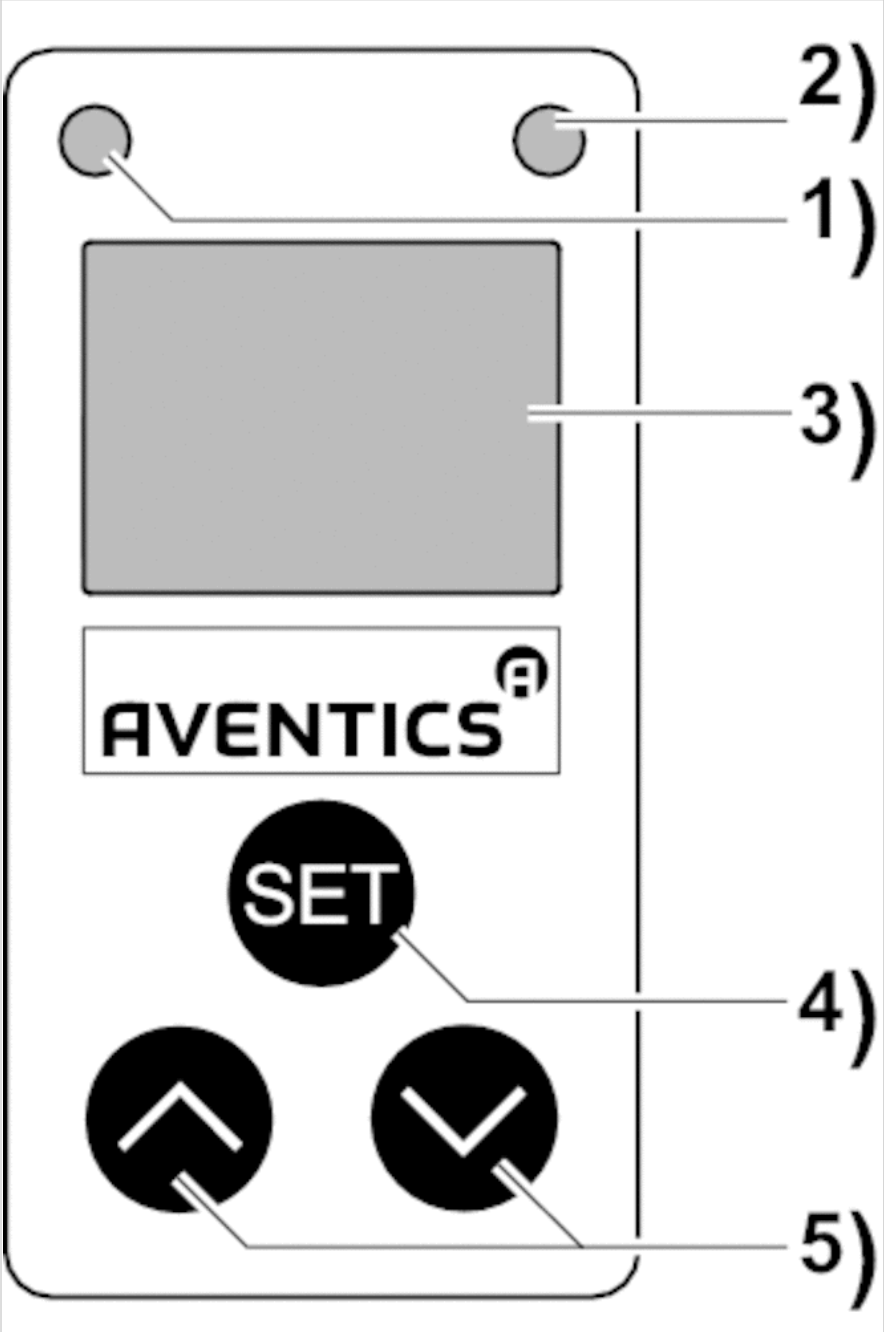


Fig. 2



1) cylinder screw M5x35 (included in scope of delivery)
2) O-ring Ø5x1,5 (included)

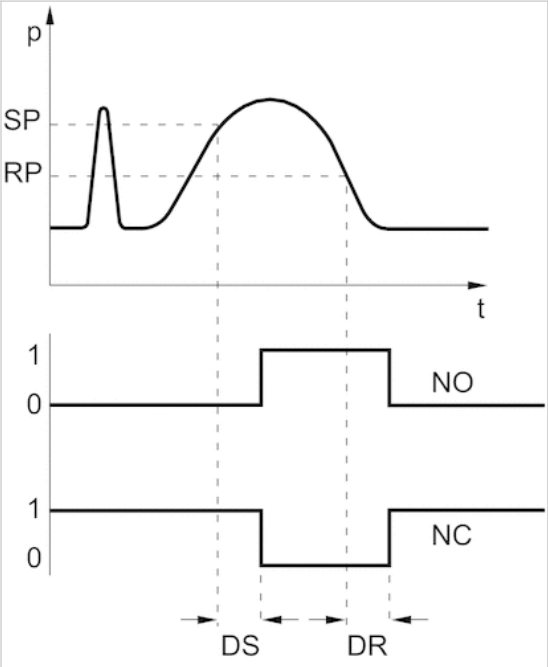
Display and operation area



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

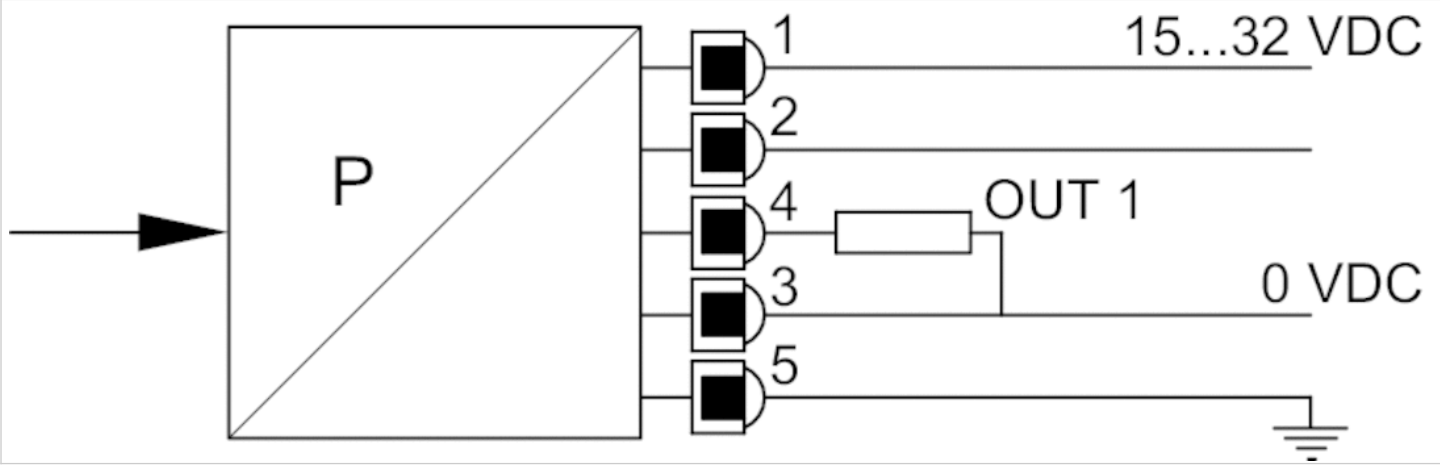
Pressure-voltage characteristics curve



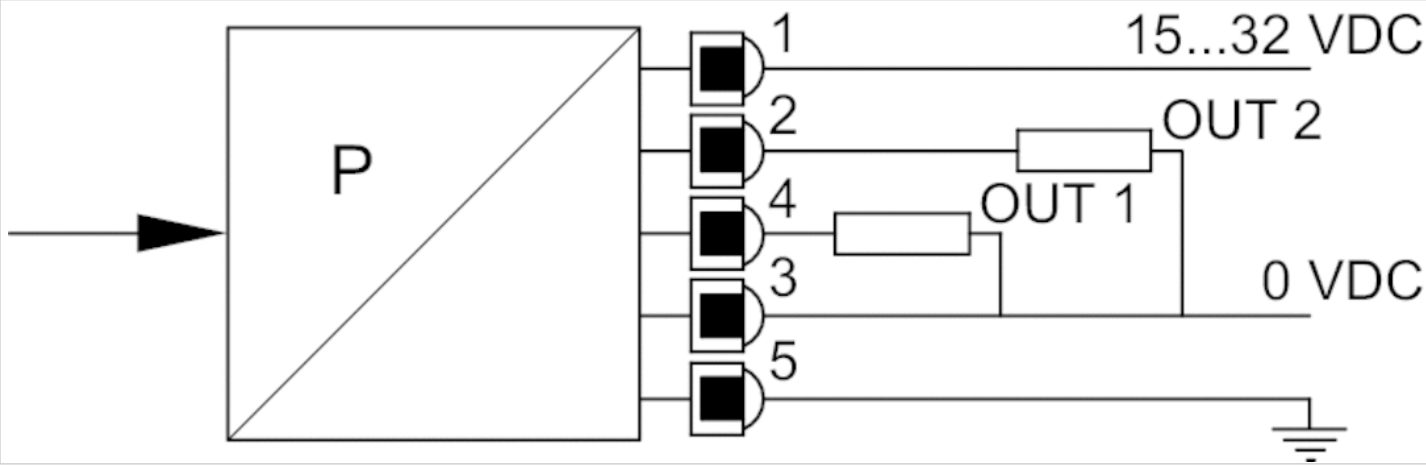
SP = switching point
RP = resetting point
NO = Switching function open
NC = Switching function closed without current
DS = Delay for the switching point
DR = Delay for the resetting point

Circuit diagram

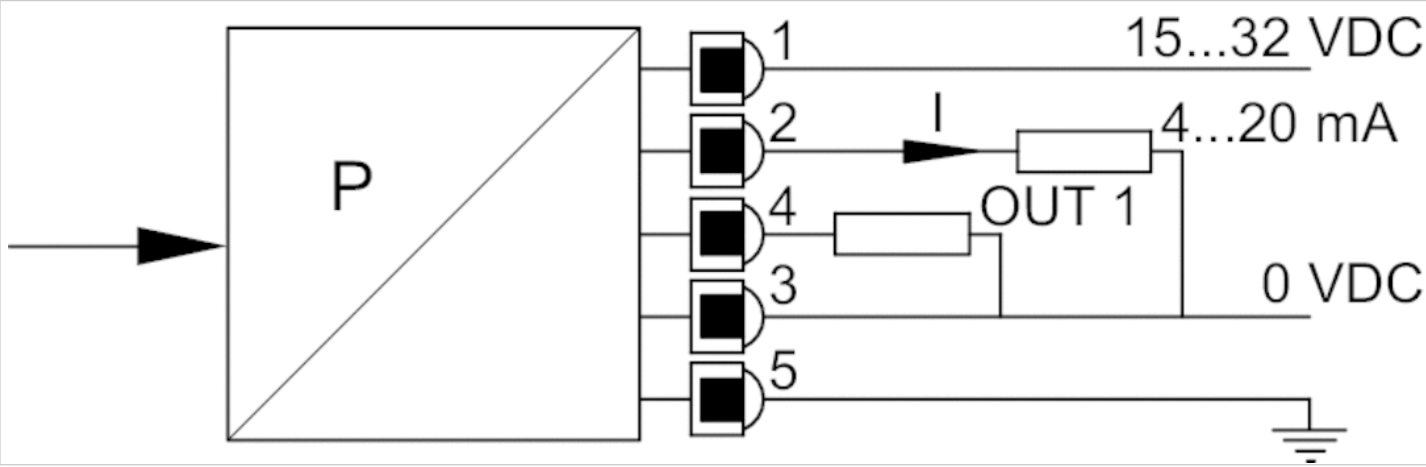
Block diagram, 1 x PNP



Block diagram, 2 x PNP

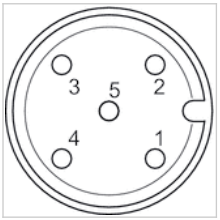


Block diagram, 1x PNP and 1x analog



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 bellow, 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 min./max.	Compressed air connection
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

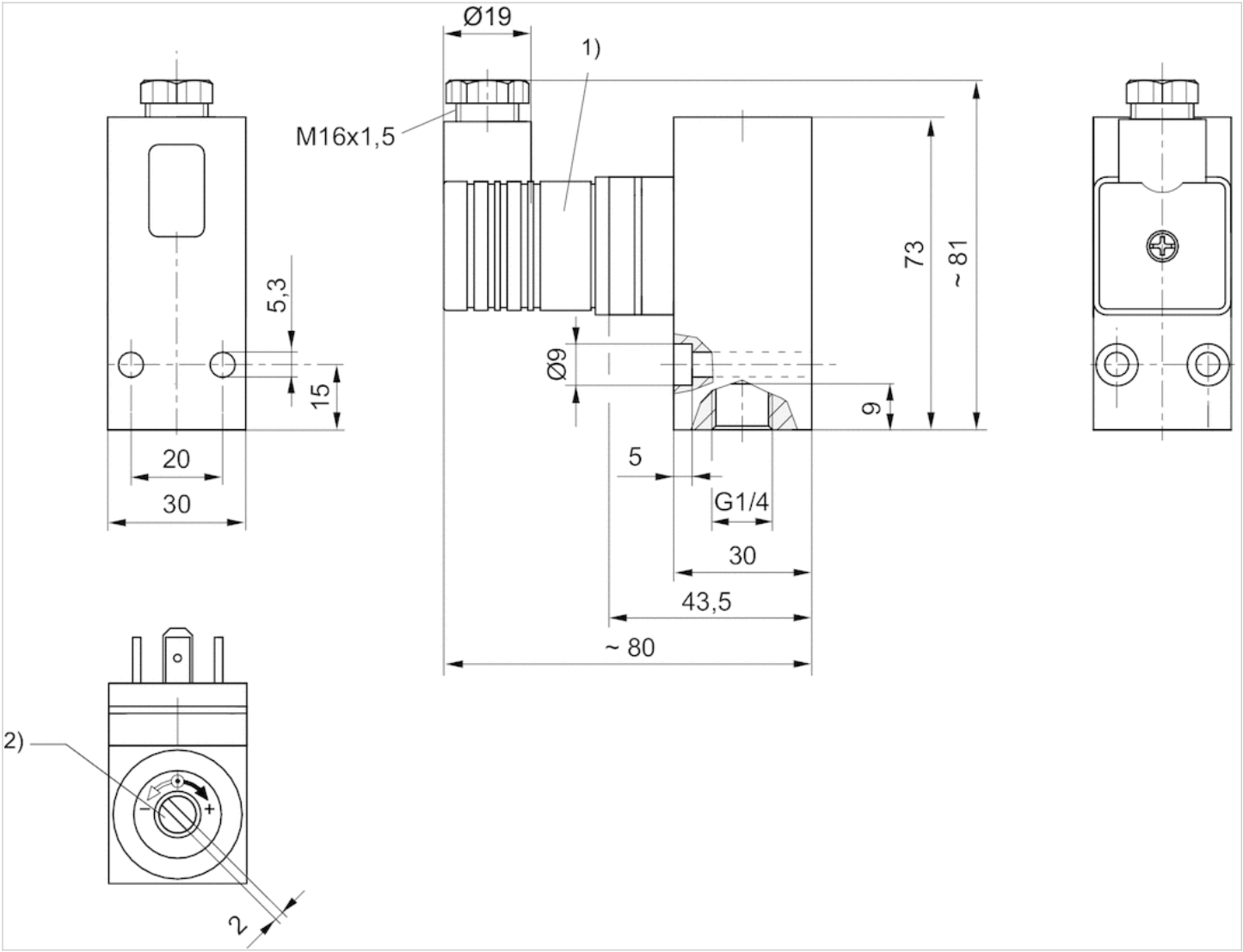
Switching function increasing pressure: contact switches from 1-2 to 1-3.
Switching function decreasing pressure: contact switches from 1-3 to 1-2.
Notice:Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!
The microswitch has silver-plated contacts.
Please observe the pin assignment when selecting plug connectors.

Technical information

Material	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber
Electr. connection	Brass, nickel-plated

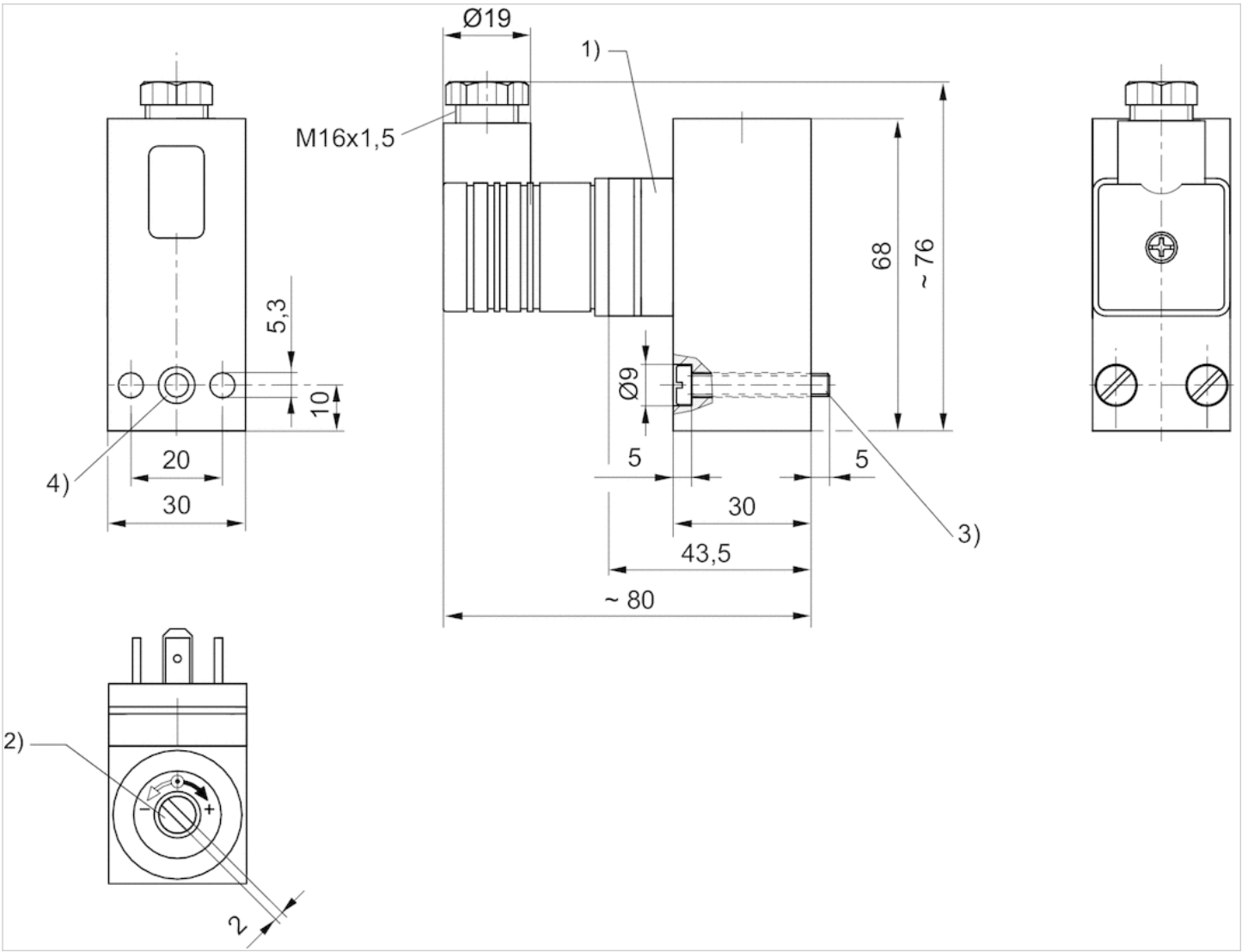
Dimensions

Fig. 1



1) Valve plug connector
2) Adjustment screw, self-holding

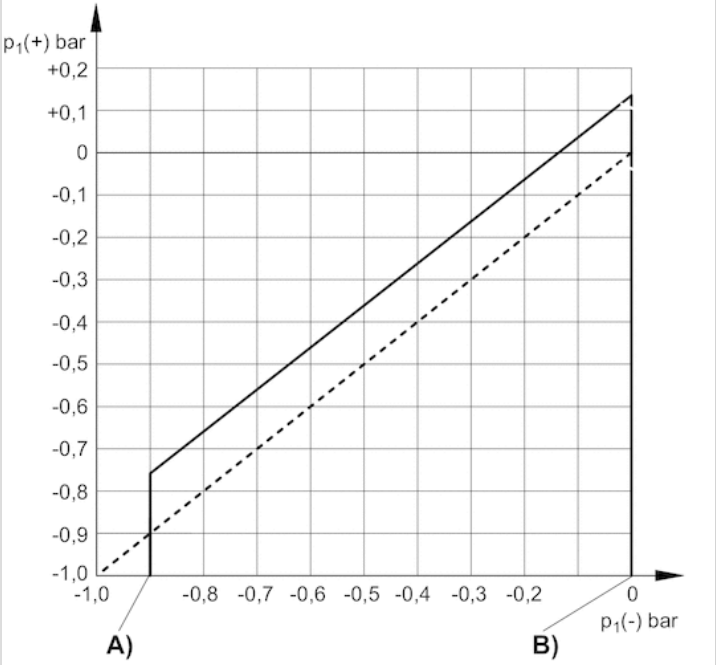
Fig. 2



1) Valve plug connector
2) Adjustment screw, self-holding
3) cylinder screw M5x30 (included in scope of delivery)
4) O-ring Ø5x1,5 (included)

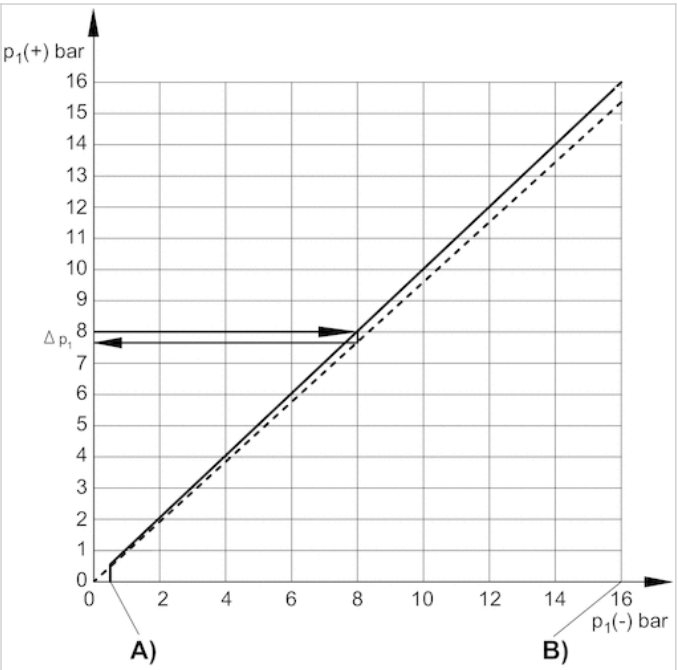
Diagrams

differential switching pressure characteristic curve (-0,9 – 0 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

differential switching pressure characteristic curve (0,2 - 16 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
Δ p1 = max. operating pressure difference or hysteresis
Example:

p1 (+) = 8 bar > p1(-) = 7.6 bar
Δ p1 = 0.4 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

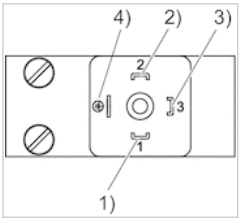
2) DC

3) cos ≈ 0,7°

4) L/R ≈ 10 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 bellow, 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 min./max.	Compressed air connection
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

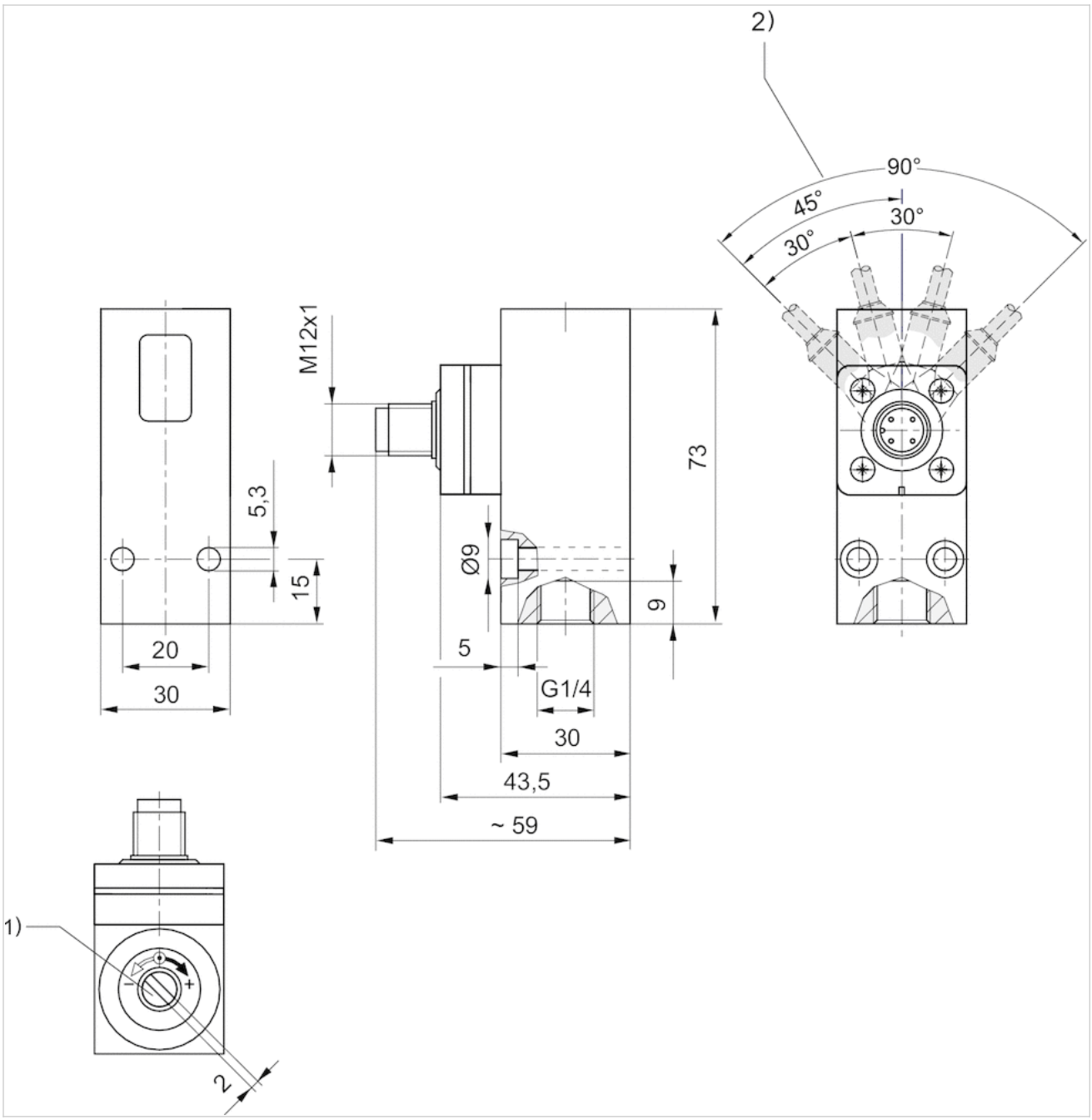
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Switching function decreasing pressure: contact switches from 1-3 to 1-2.
Notice:Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!
The microswitch has silver-plated contacts.

Technical information

Material	
Housing	Aluminum
Seals	Acrylonitrile butadiene rubber
Electr. connection	Brass, nickel-plated

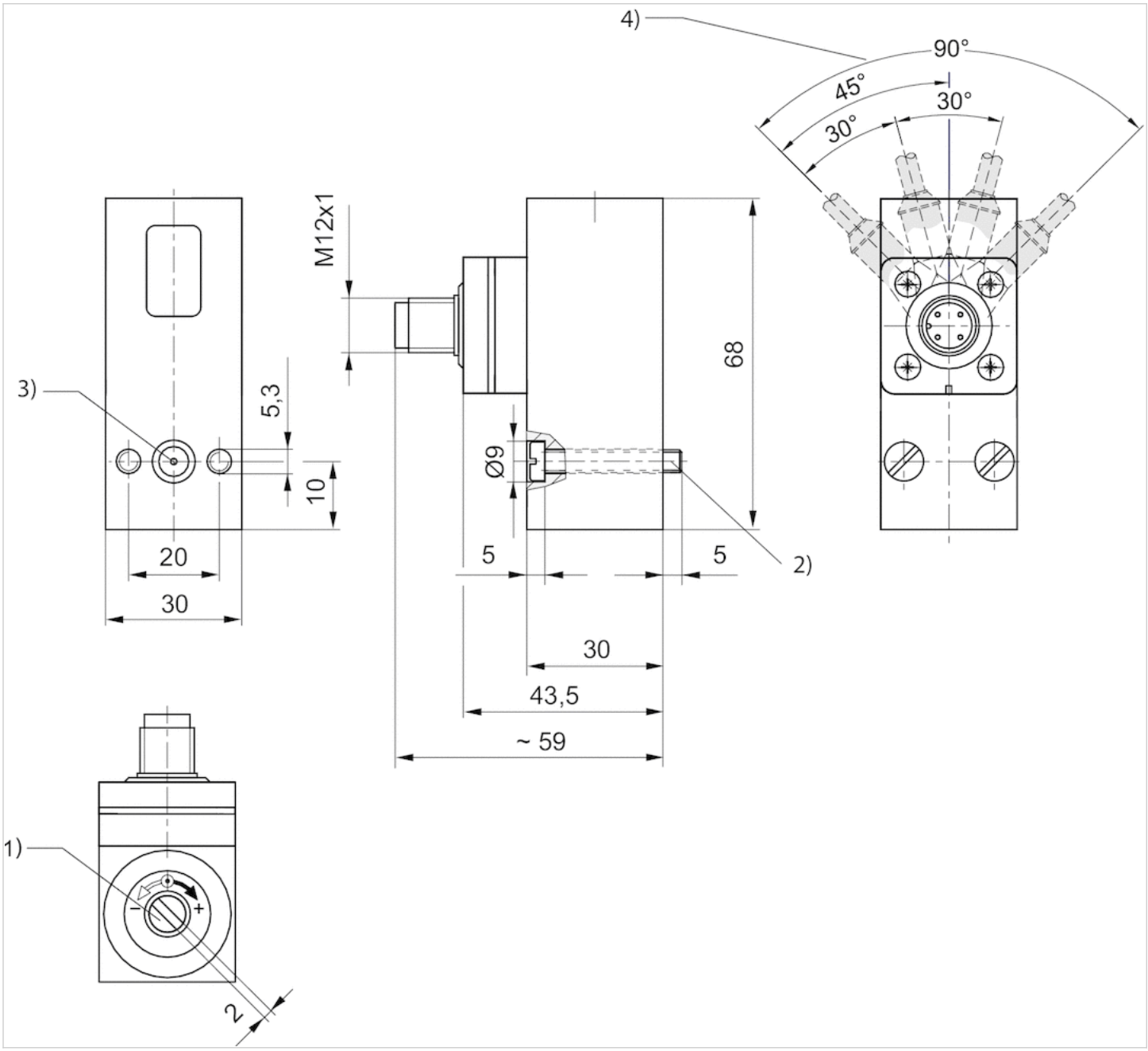
Dimensions

Fig. 1



1) Adjustment screw, self-holding
2) Detent position

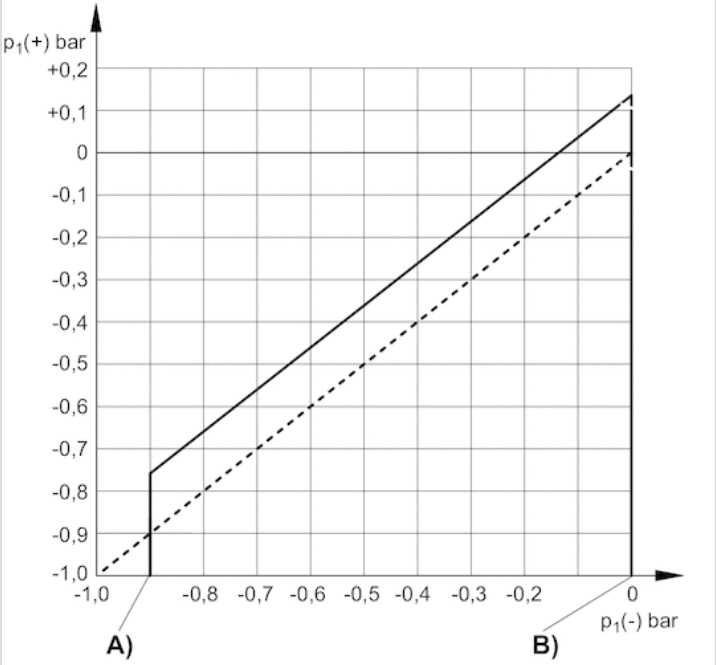
Fig. 2



1) Adjustment screw, self-holding
2) cylinder screw M5x30 (included in scope of delivery)
3) O-ring Ø5x1,5 (included)
4) Detent position

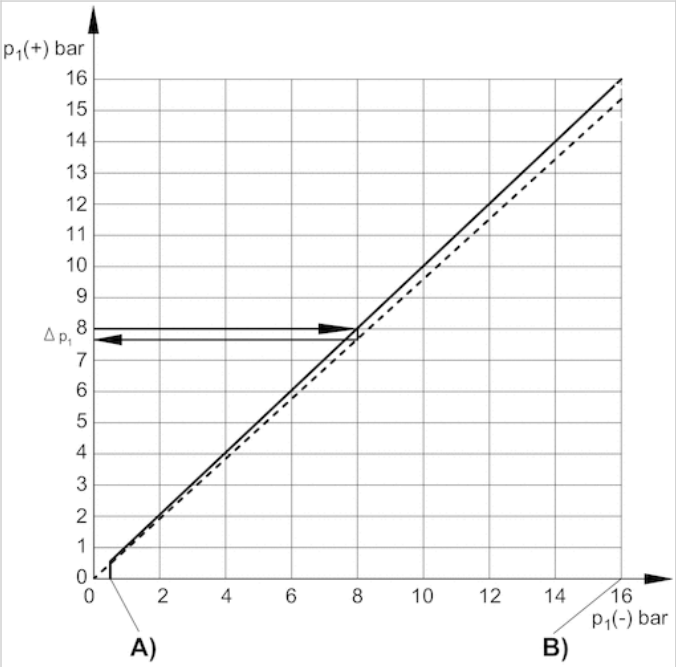
Diagrams

differential switching pressure characteristic curve (-0,9 – 0 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

differential switching pressure characteristic curve (0,2 - 16 bar)



A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
Δ p1 = max. operating pressure difference or hysteresis
Example:

p1 (+) = 8 bar > p1(-) = 7.6 bar
Δ 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

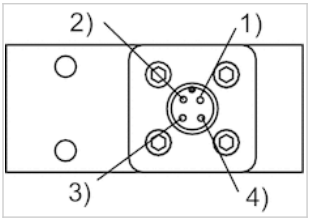
2) DC

3) cos ≈ 0,7°

4) L/R ≈ 10 ms

Pin assignments

Pin assignments

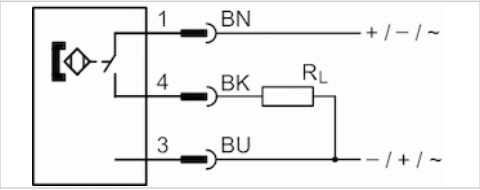


Pin	1	2	3	4
Allocation	+UB	break contact	No function	NO (make contact)

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M12, 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 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 Imax	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

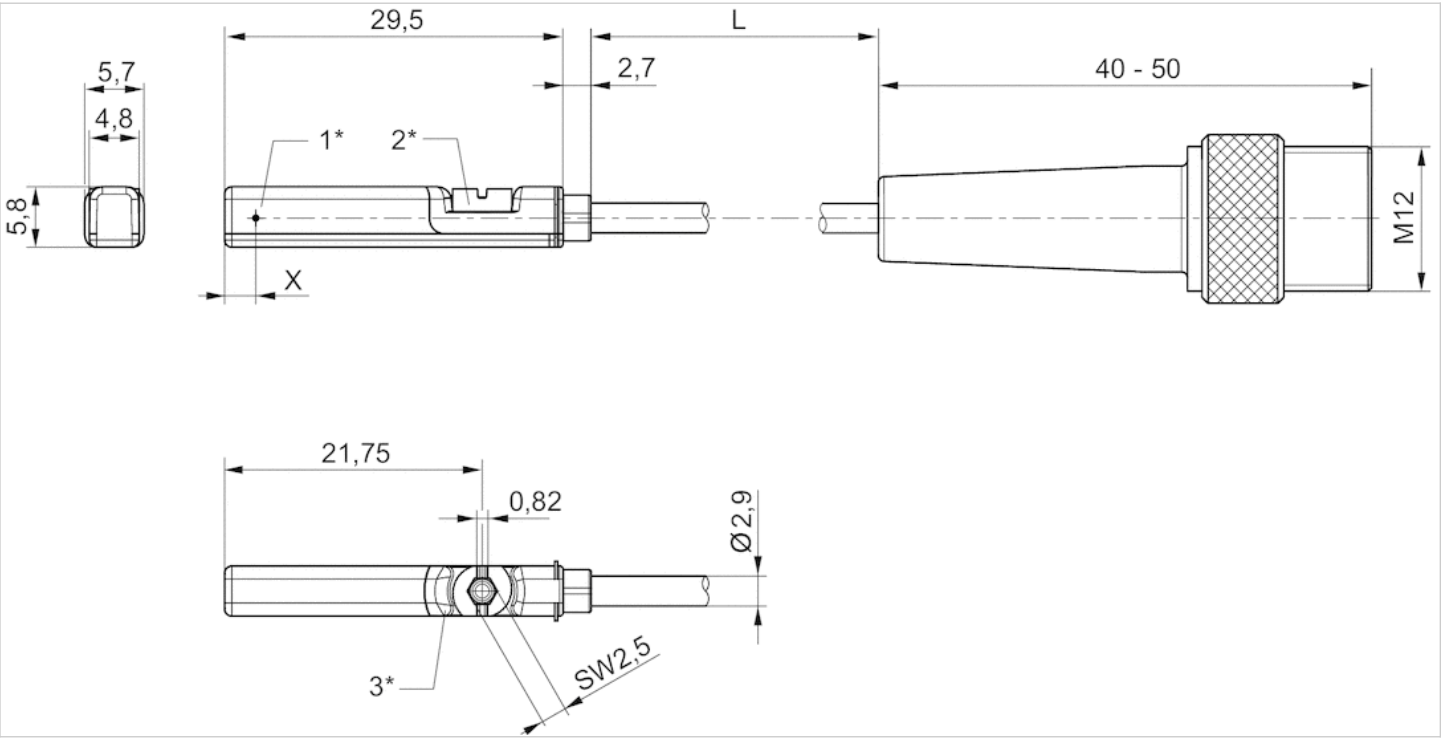
The product of operating voltage and continuous current must not exceed the maximum switching capacity.

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Dimensions

Dimensions

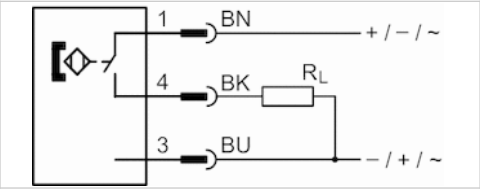


1* = switching point 2* = locking screw 3* = LED window, transparent
L = cable length
X = PNP: 11,6 mm, reed: 8,3 mm

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 Imax	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

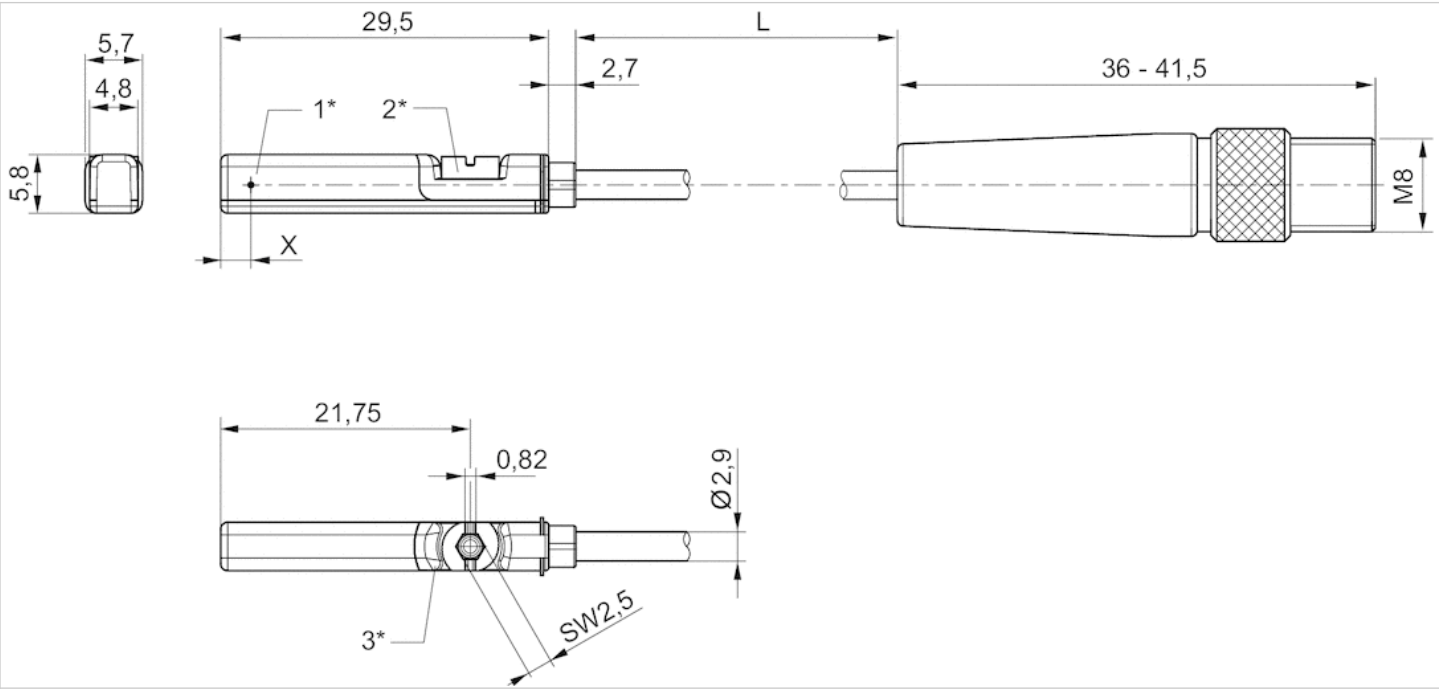
Part No.	Version
R412022873	Protected against polarity reversal
R412022875	Protected against polarity reversal
R412022874	Protected against polarity reversal

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane Polyvinyl chloride
Locking screw	Stainless steel

Dimensions

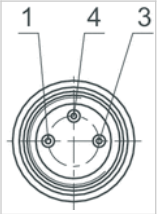
Dimensions



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

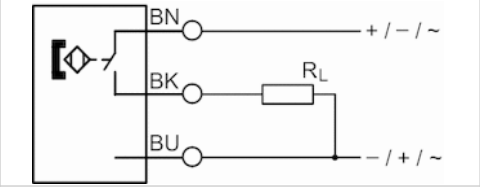


Pin	1	3	4
Allocation	(+)	(-)	(OUT)

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 Imax	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

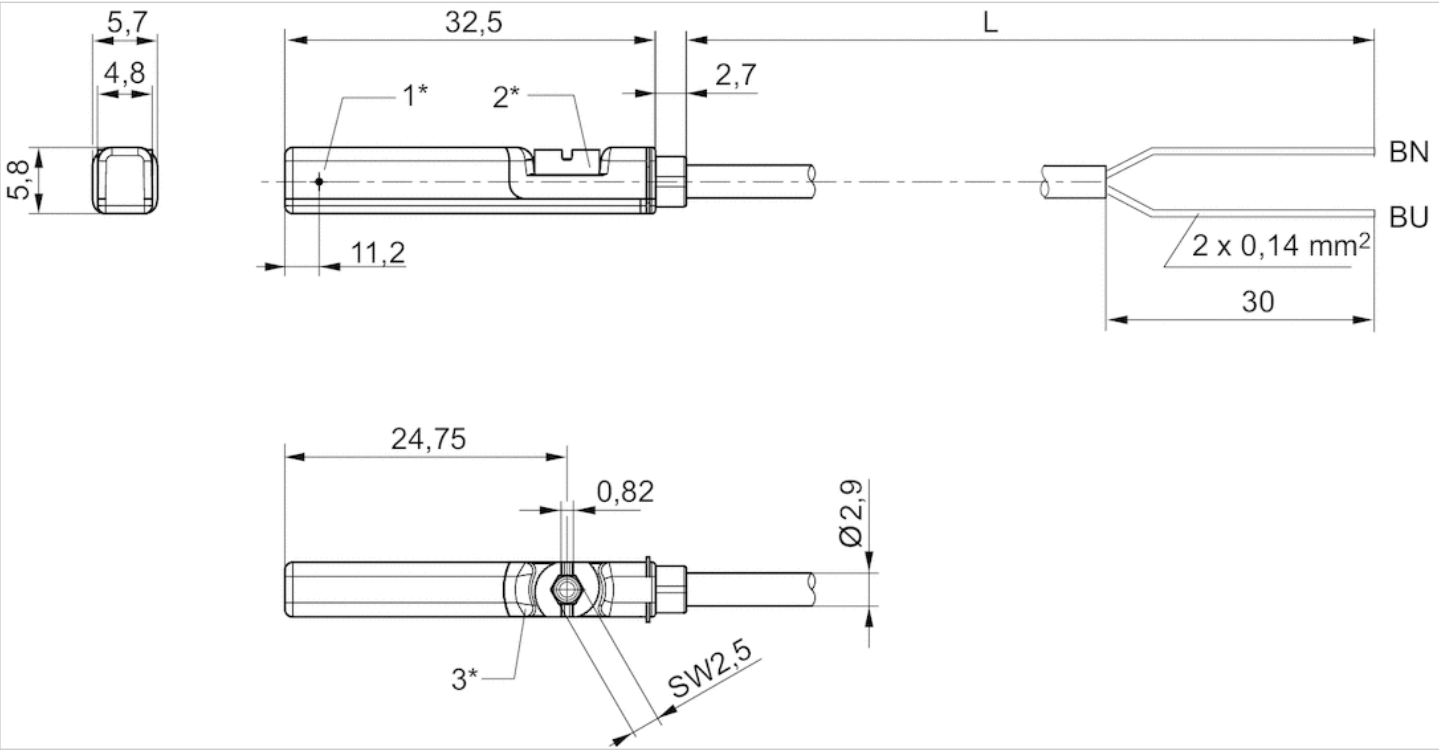
No cULus certification for 230 V variant.

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

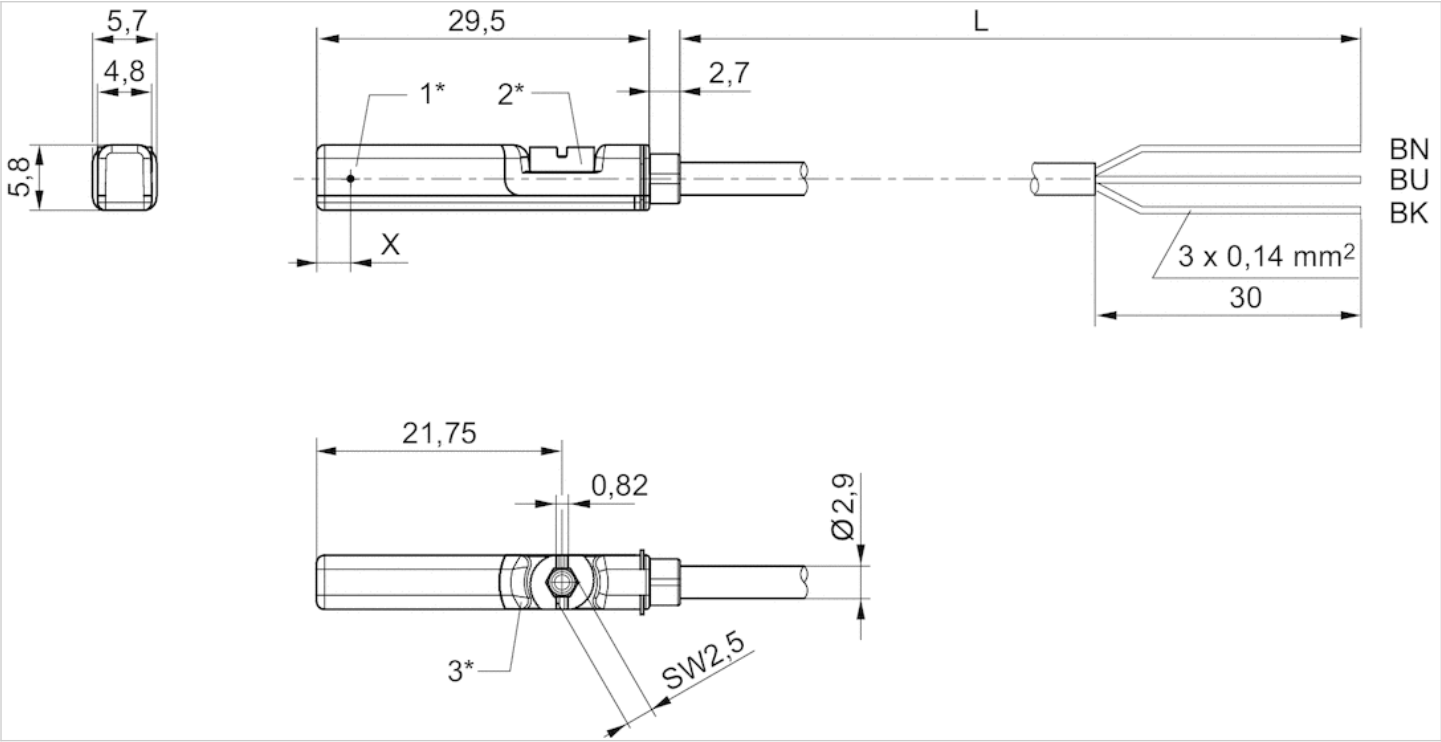
Dimensions

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 Ø16
- 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	Ø16	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	Ø16	10 piece	0.067 kg

Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

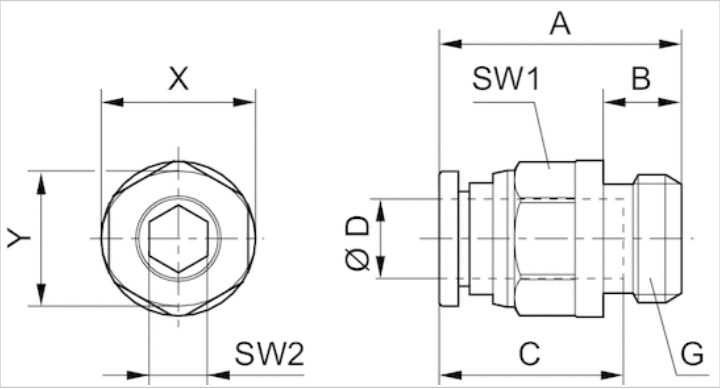
For further information about assembling and tolerances of adaptable tubing can be found in the “Technical information” document (available in the MediaCentre).

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 Ø16
- 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	Ø16	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	Ø16	5 piece	0.076 kg

Technical information

The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

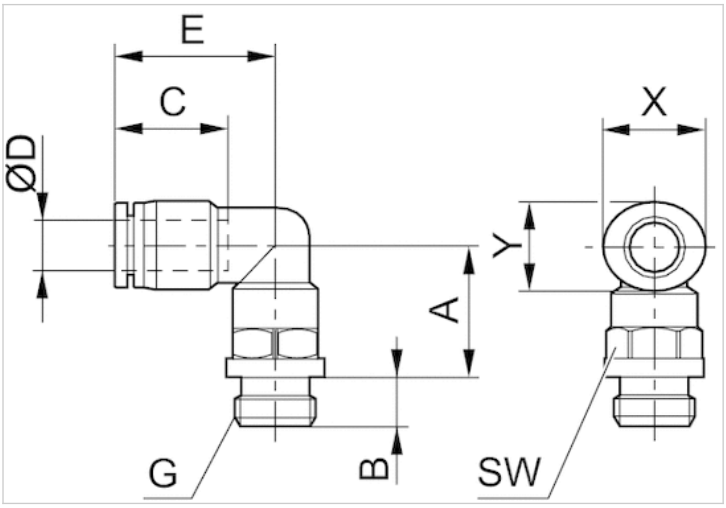
For further information about assembling and tolerances of adaptable tubing can be found in the “Technical information” document (available in the MediaCentre).

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 Ø16
- 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	Ø16	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

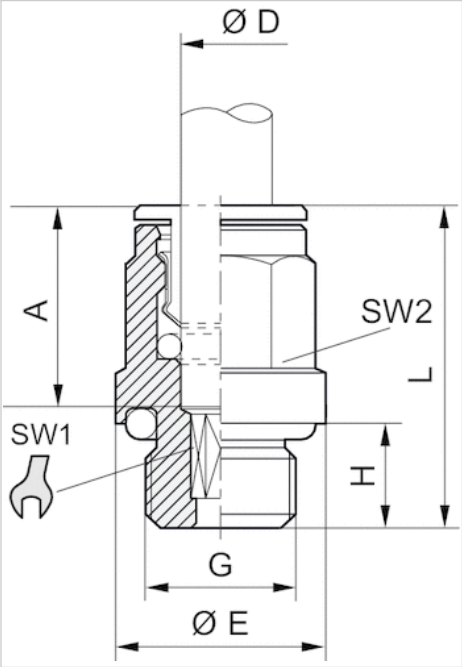
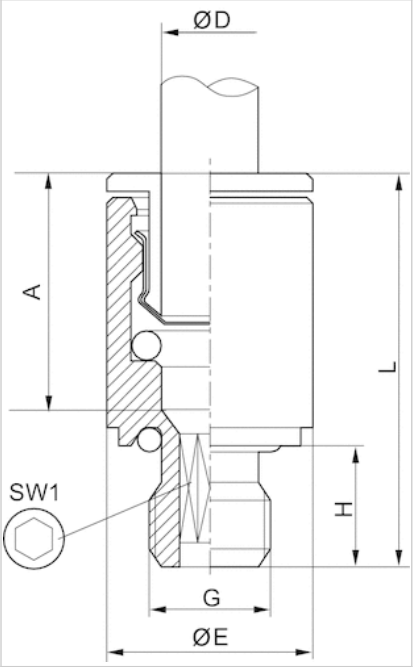


Fig. 2



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 Ø16
- 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	Ø16	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	Ø16	1 piece	0.084 kg

Technical information

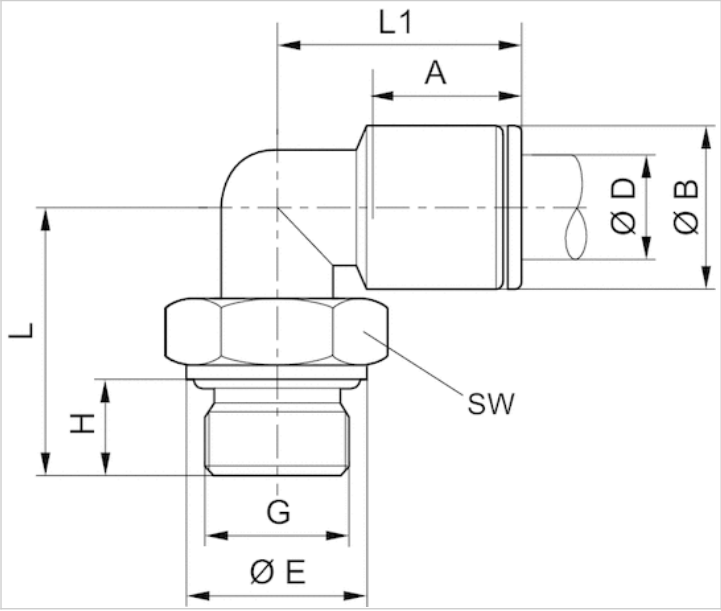
The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

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

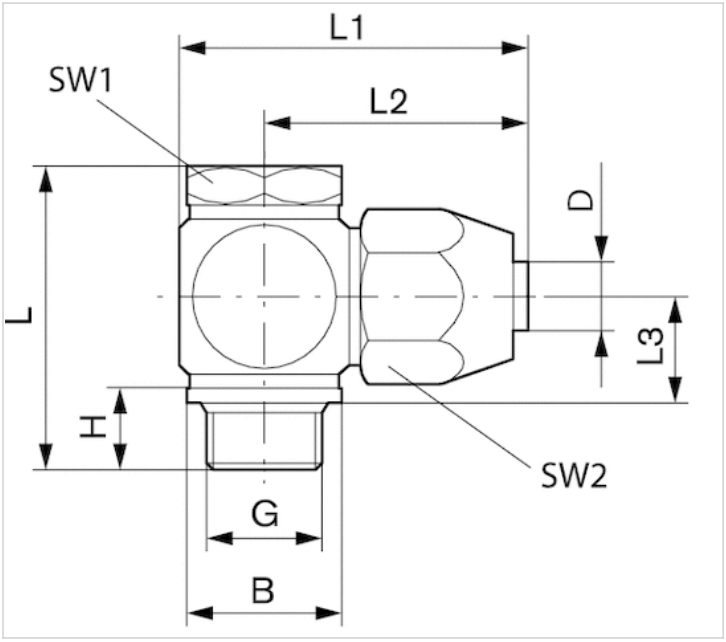
For further information about assembling and tolerances of adaptable tubing can be found in the “Technical information” document (available in the MediaCentre).

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



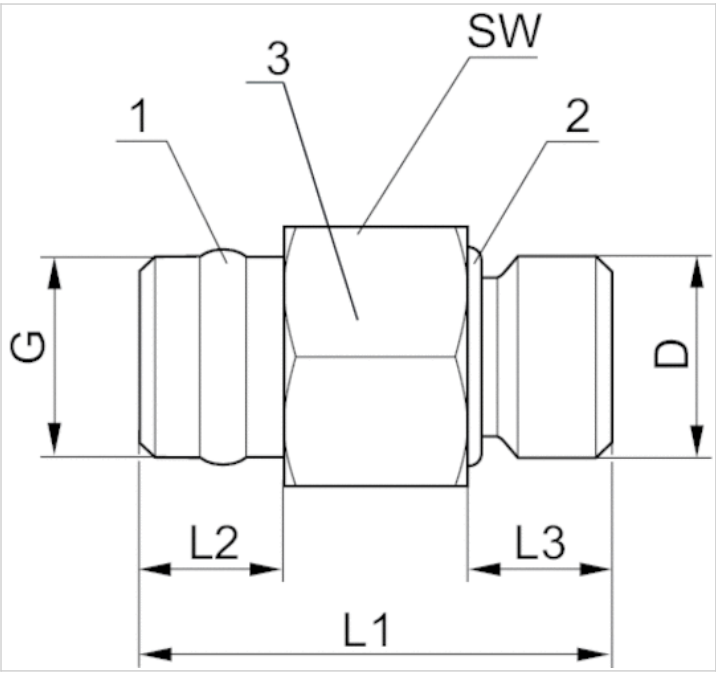
Weight per piece 0.04 kg

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

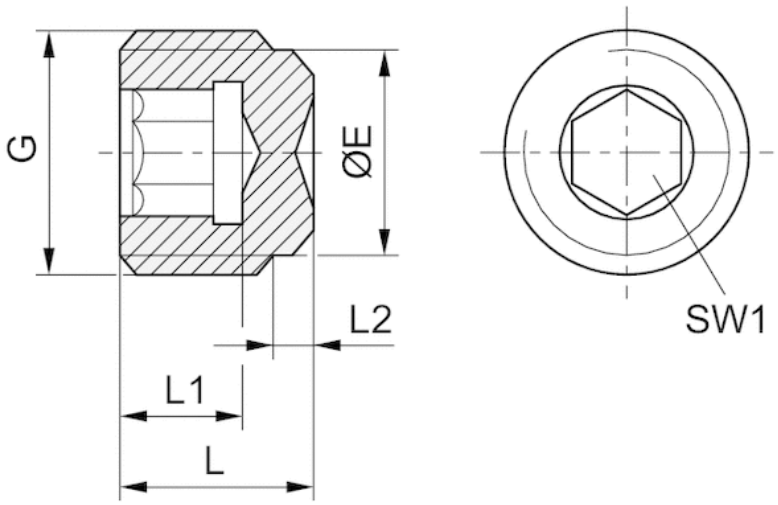
Part No.	Port G	Delivery unit
1823462004	G 1/8	10 piece
1823462003	G 1/4	10 piece

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



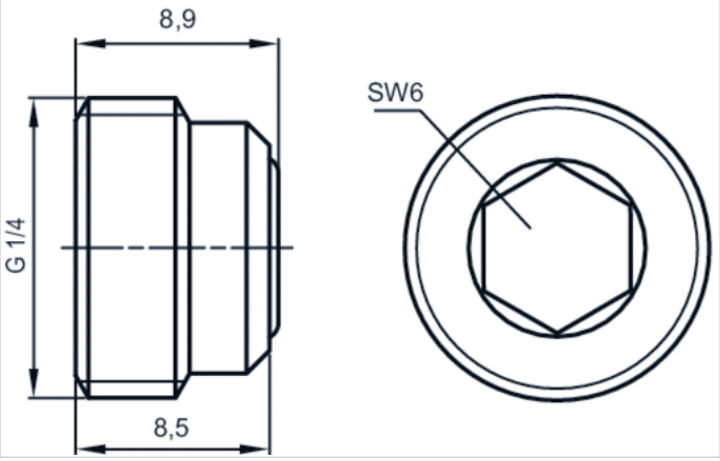
Technical data

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

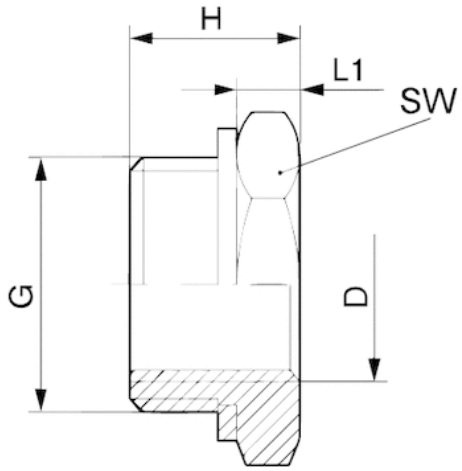
Part No.	Port G	Port D	Delivery unit
1823391013	G 3/8	G 1/4	10 piece
1823391300	G 1/2	G 1/4	5 piece
1823391014	G 1/2	G 3/8	5 piece

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

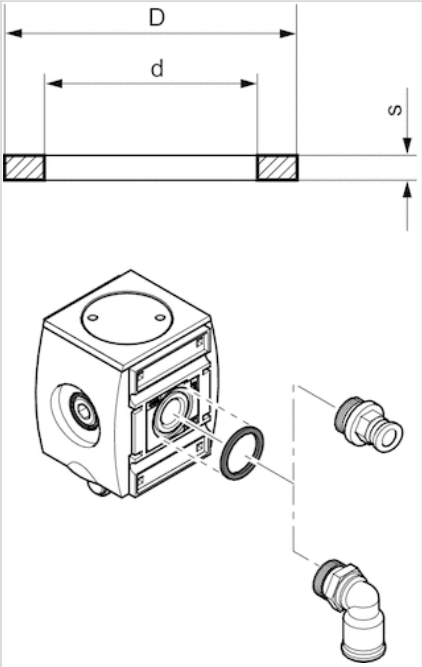
Part No.	Port G	Delivery unit
R412010148	G 3/8	10 piece
R412010149	G 1/2	10 piece
R412010150	G 1	10 piece

For inserting into the O-ring groove when using series QR1 and QR2 fittings.

Technical information

Material	
Material	Acrylonitrile butadiene styrene

Dimensions



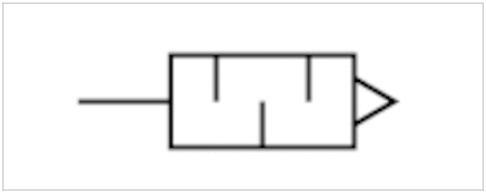
Dimensions

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

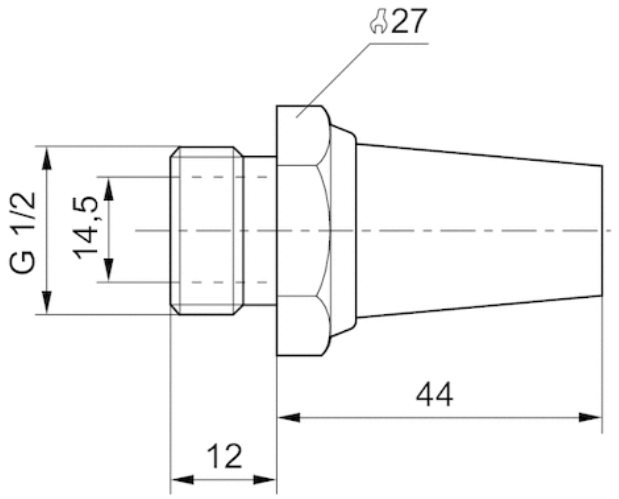
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

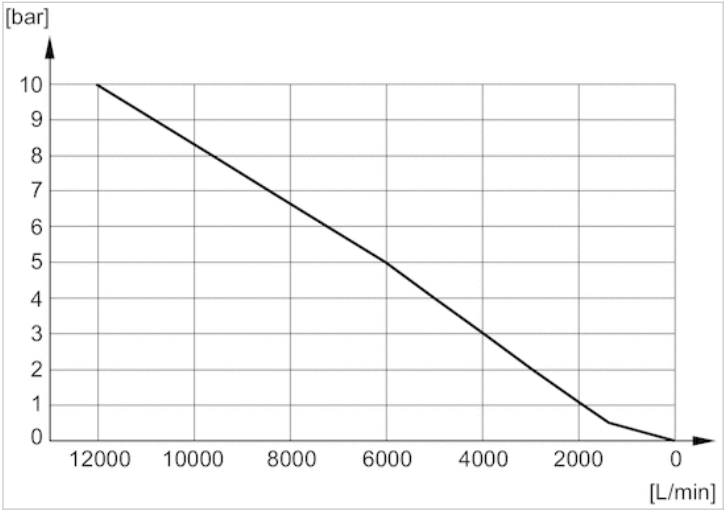
Dimensions

Dimensions in mm



Diagrams

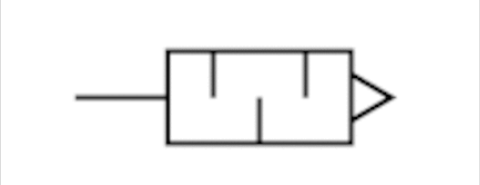
Flow diagram, 1827000003



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

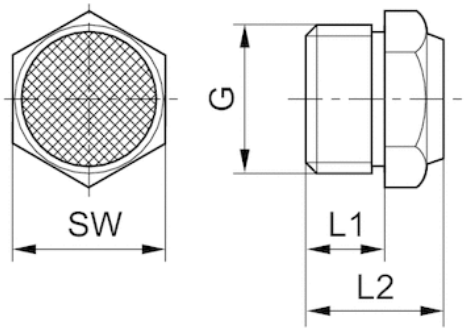
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Sintered bronze
Thread	Brass

Dimensions

Dimensions



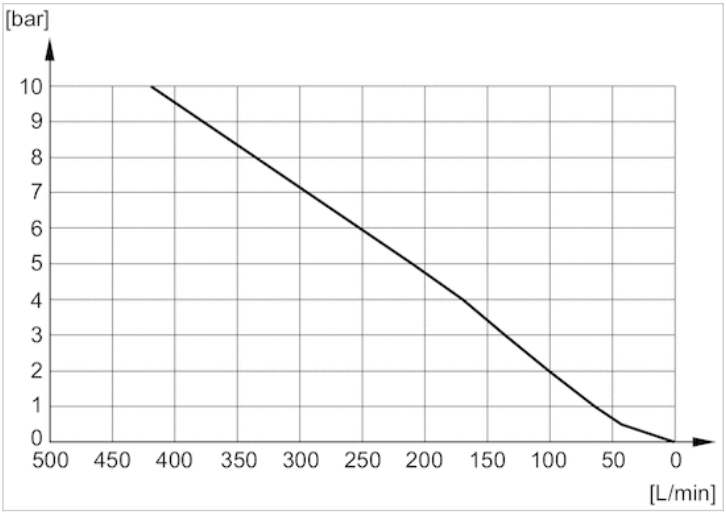
Dimensions

Part No.	Port G	L1	L2	SW
1827000035	G 1/2	12	19.5	27

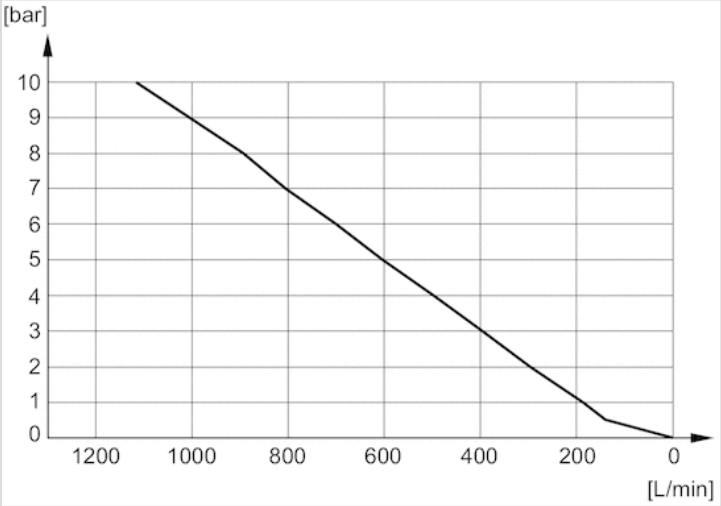
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

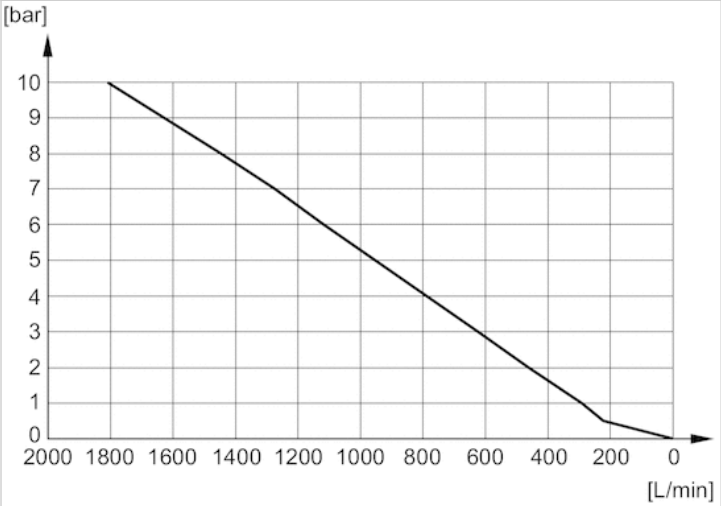
Flow diagram, 1827000032



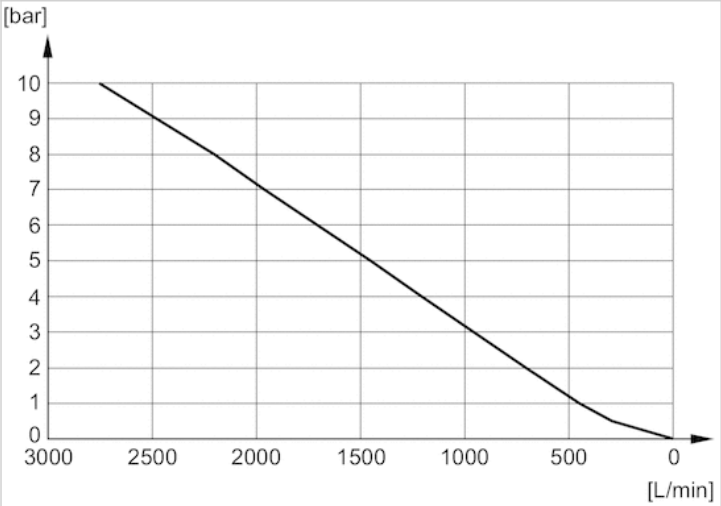
Flow diagram, 1827000031



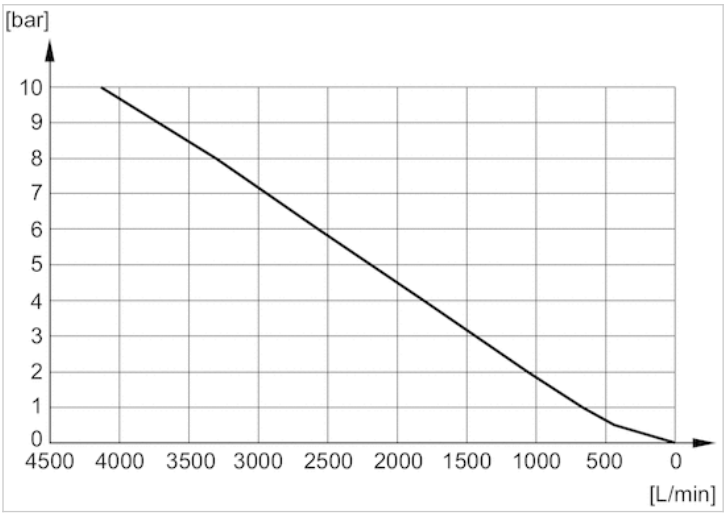
Flow diagram, 1827000033



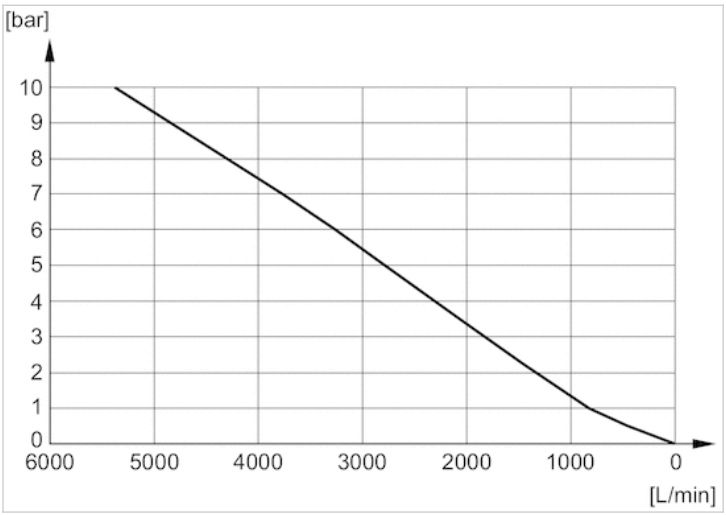
Flow diagram, 1827000034



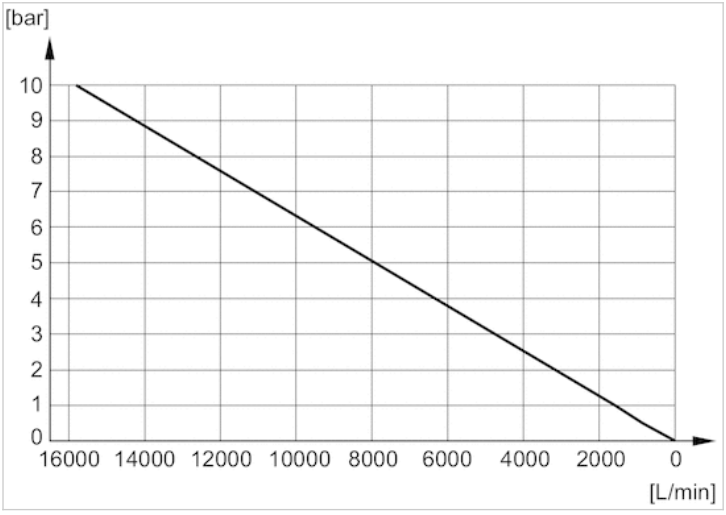
Flow diagram, 1827000035



Flow diagram, 8145003400



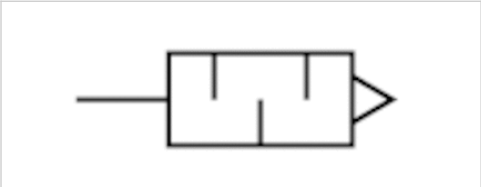
Flow diagram, 8145001000



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

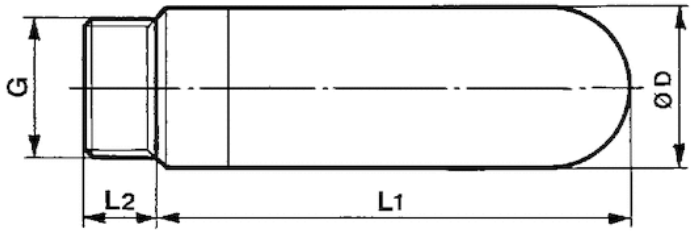
Flow characteristic curves can be found under “Diagrams”.

Technical information

Material	
Silencer	Polyethylene
Thread	Polyethylene

Dimensions

Dimensions

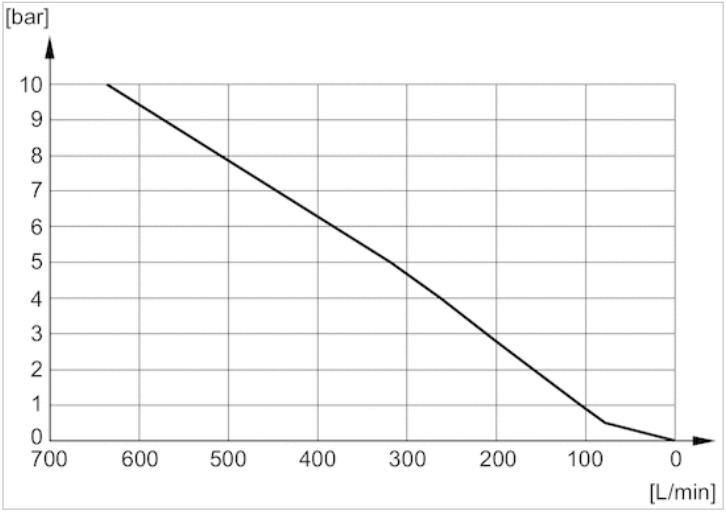


Dimensions

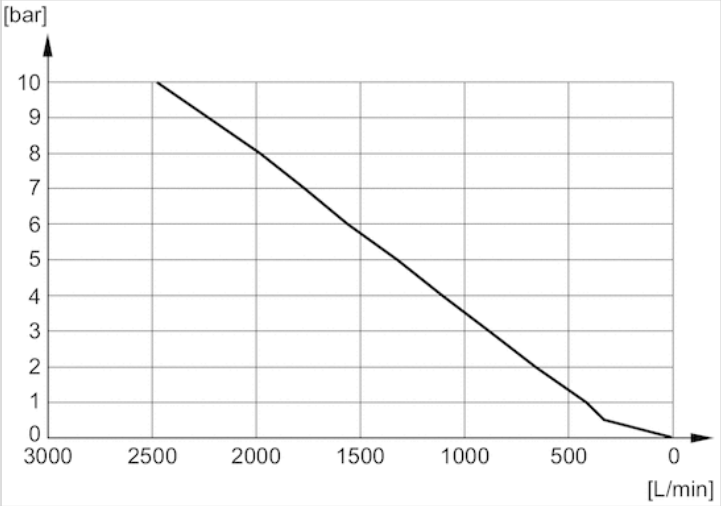
Part No.	Port G	Ø D	L1	L2
1827000022	G 1/2	23.3	66.5	11

Diagrams

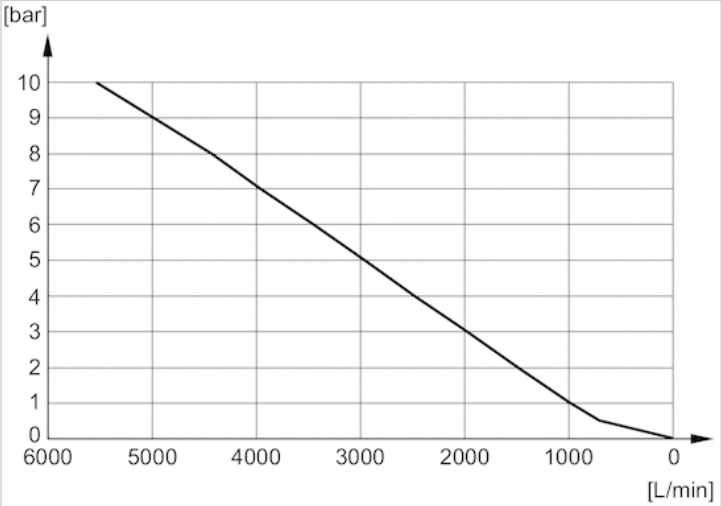
Flow diagram, 1827000018



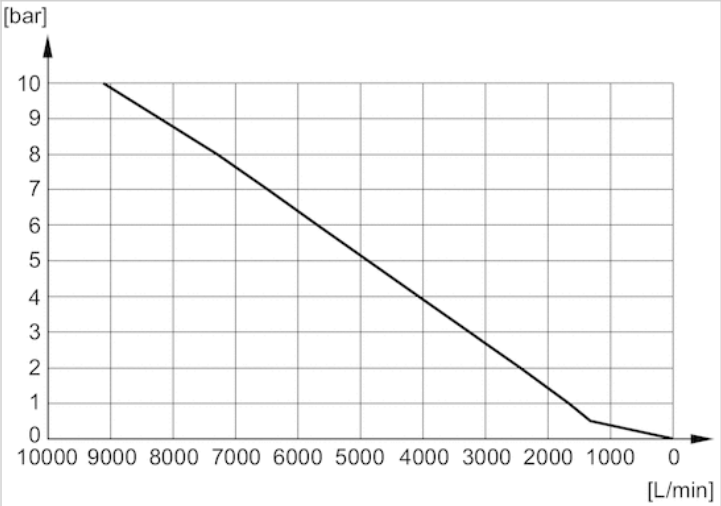
Flow diagram, 1827000019



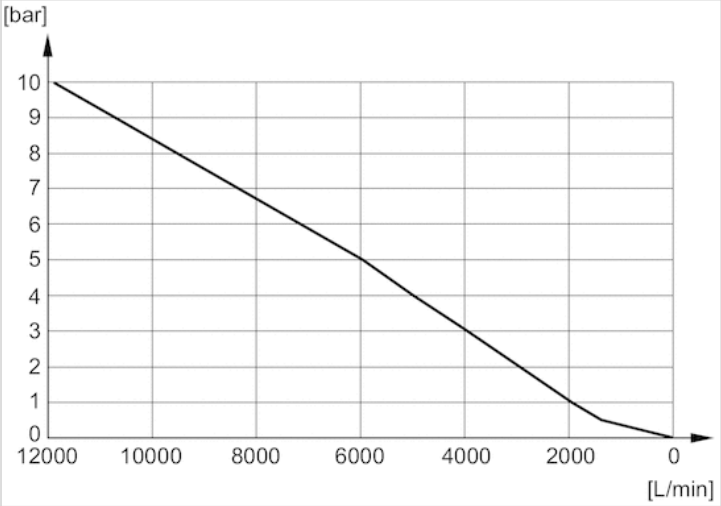
Flow diagram, 1827000020



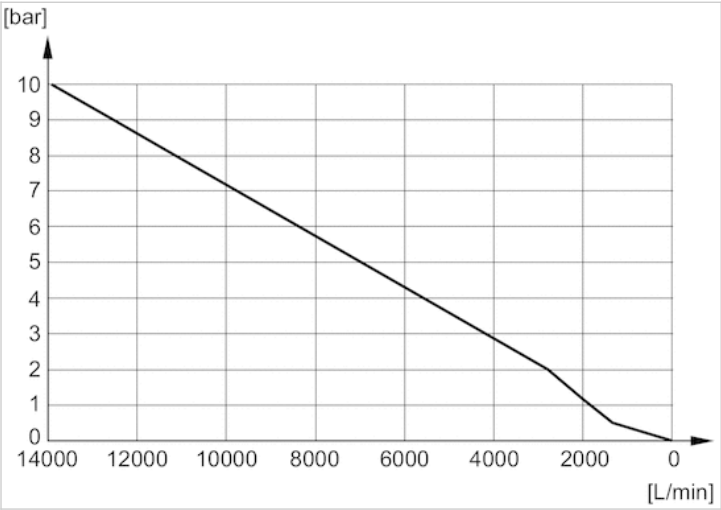
Flow diagram, 1827000021



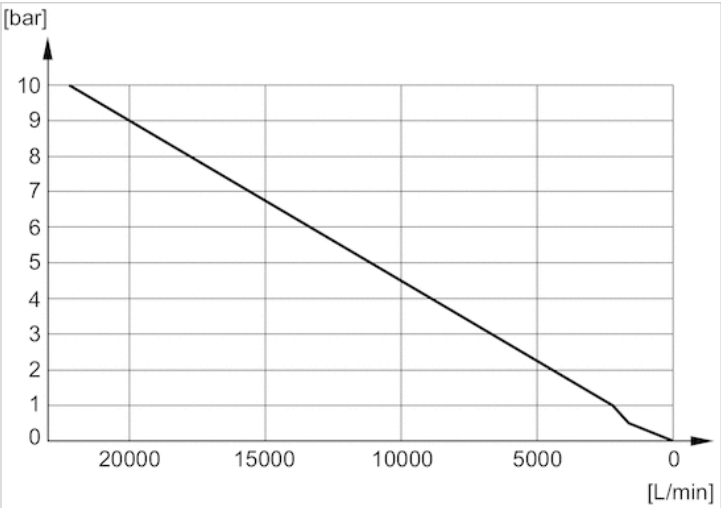
Flow diagram, 1827000022



Flow diagram, 1827000023



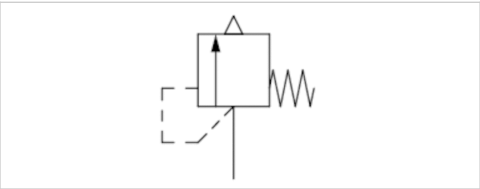
Flow diagram, 1827000024



Series RV1

- Qn 1▸2 = 676-16037 l/min
- thread-in
- External thread
- G 1/4 G 3/8 G 1/2
- Uncollected





Version	Poppet valve
Certificates	CE declaration of conformity
Working pressure min./max.	0 ... 20 bar
Opening pressure of valve	See table below
Ambient temperature min./max.	-20 ... 100 °C
Medium	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

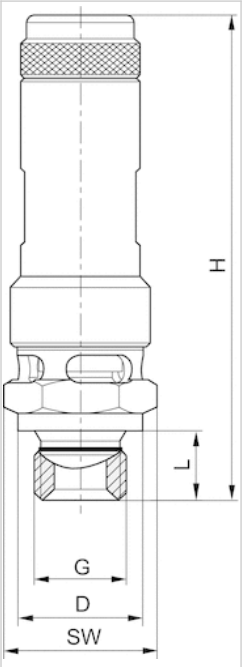
The specified performance values are achieved at a 10% (PE 1 bar , 0.1 bar) pressure increase, measured with compressed air at 20 °C .

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

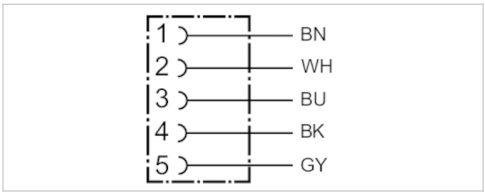
T = maximum torque

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 mm²
Weight	See table below

Technical data

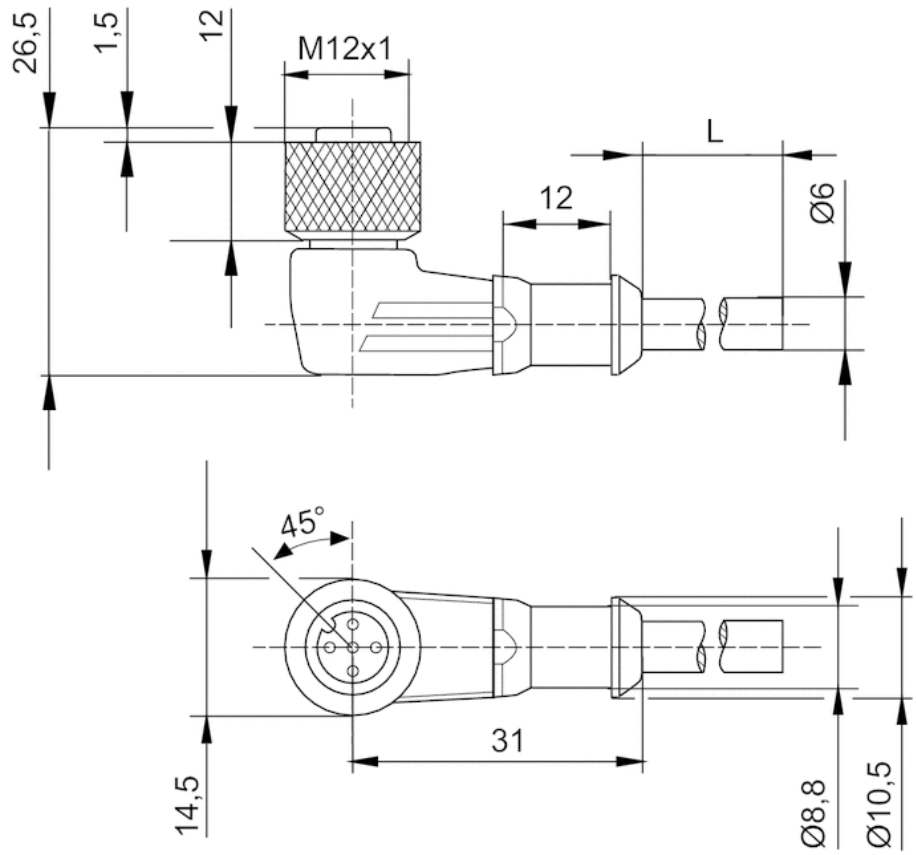
Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
R419800109	4 A	5	6 mm	2.5 m	0.145 kg
R419800110	4 A	5	6 mm	5 m	0.27 kg
R419800546	4 A	5	6 mm	10 m	0.514 kg

Technical information

Material	
Housing	Thermoplastic elastomer
Cable sheath	Polyurethane

Dimensions

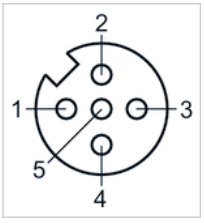
Dimensions



L = length

Pin assignments

Pin assignment, socket

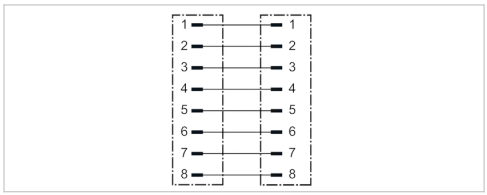


(1) BN=brown
(2) WH=white
3) BU=blue
(4) BK=black
(5) GY=grey

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 mm²

Technical data

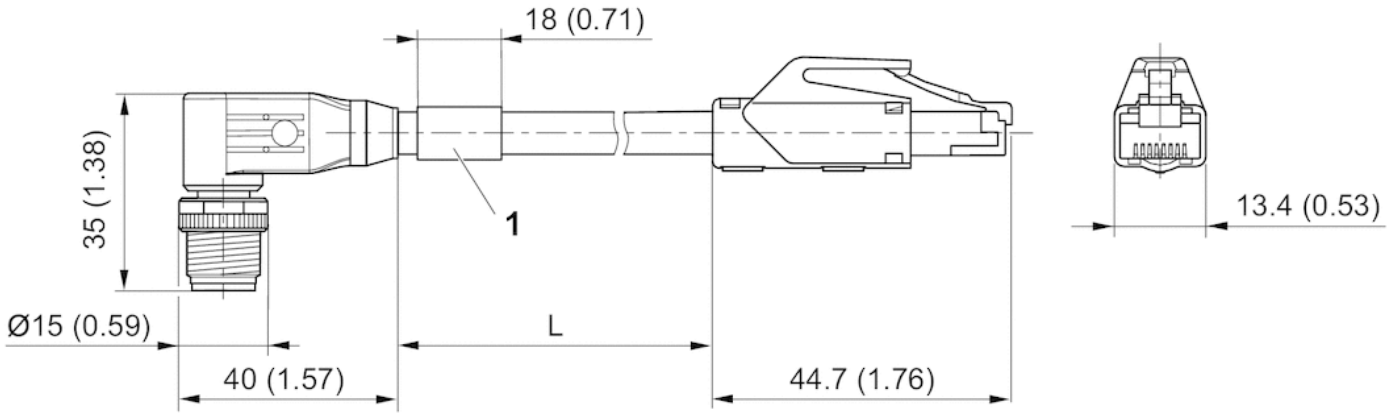
Part No.	Max. current	Cable length
R412027647	0.5 A	5 m

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

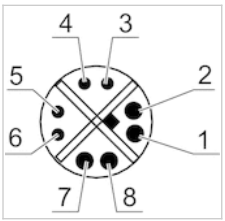
Dimensions



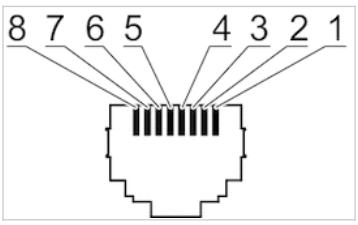
1) Name plate

Pin assignments

Plug pin assignment



Plug pin assignment

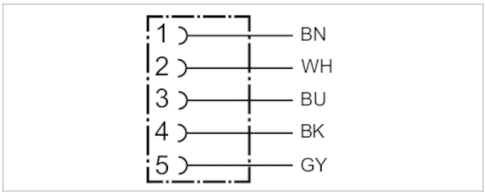


Round plug connector, Series CON-RD

- 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 mm²
Weight	See table below



Technical data

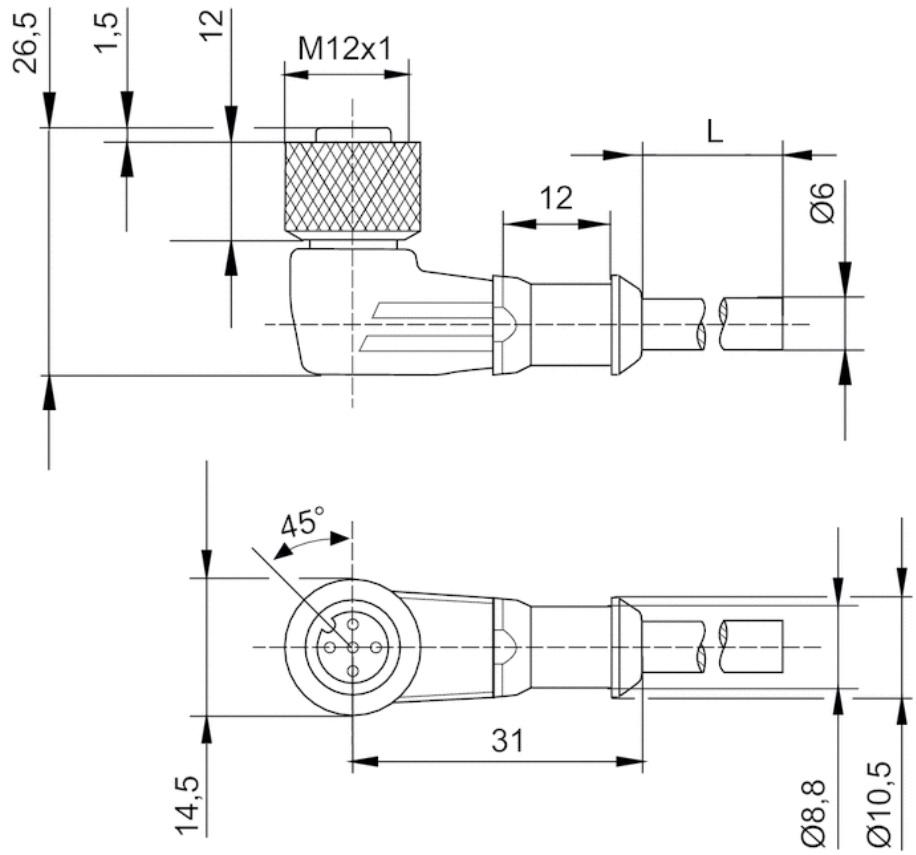
Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
R419800109	4 A	5	6 mm	2.5 m	0.145 kg
R419800110	4 A	5	6 mm	5 m	0.27 kg
R419800546	4 A	5	6 mm	10 m	0.514 kg

Technical information

Material	
Housing	Thermoplastic elastomer
Cable sheath	Polyurethane

Dimensions

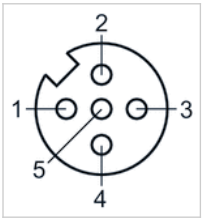
Dimensions



L = length

Pin assignments

Pin assignment, socket

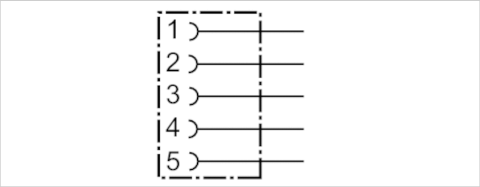


(1) BN=brown
(2) WH=white
3) BU=blue
(4) BK=black
(5) GY=grey

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

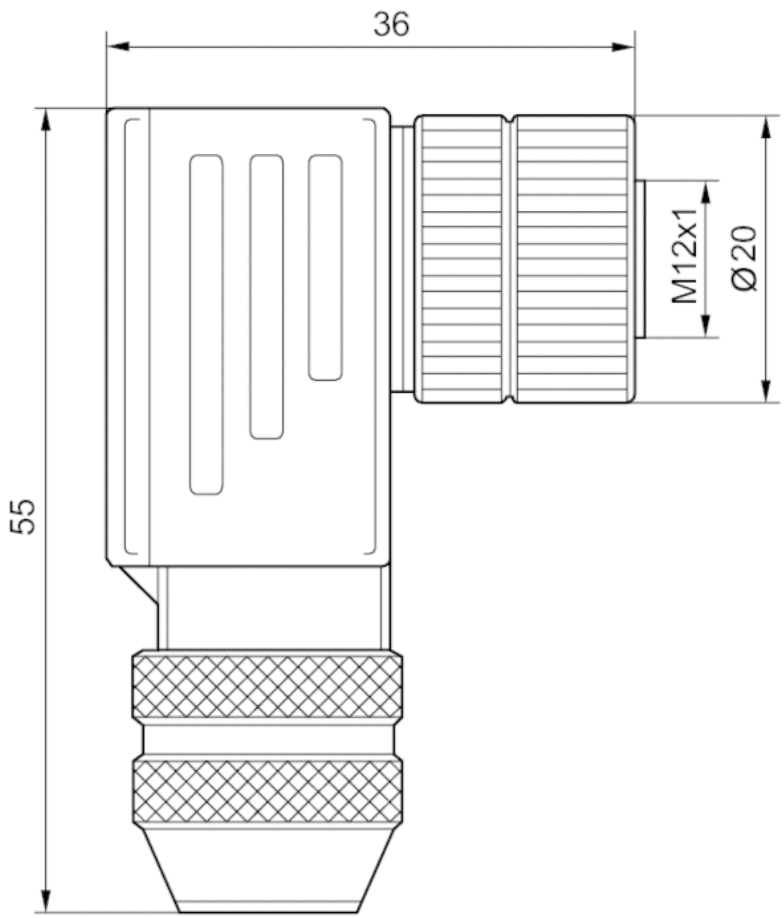
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Die cast zinc

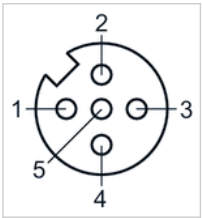
Dimensions

Dimensions



Pin assignments

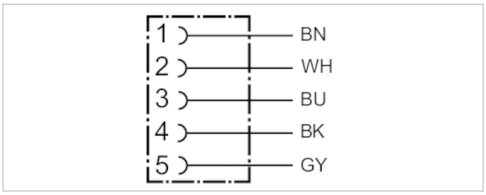
Pin assignment, socket



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 mm²
Weight	See table below

Technical data

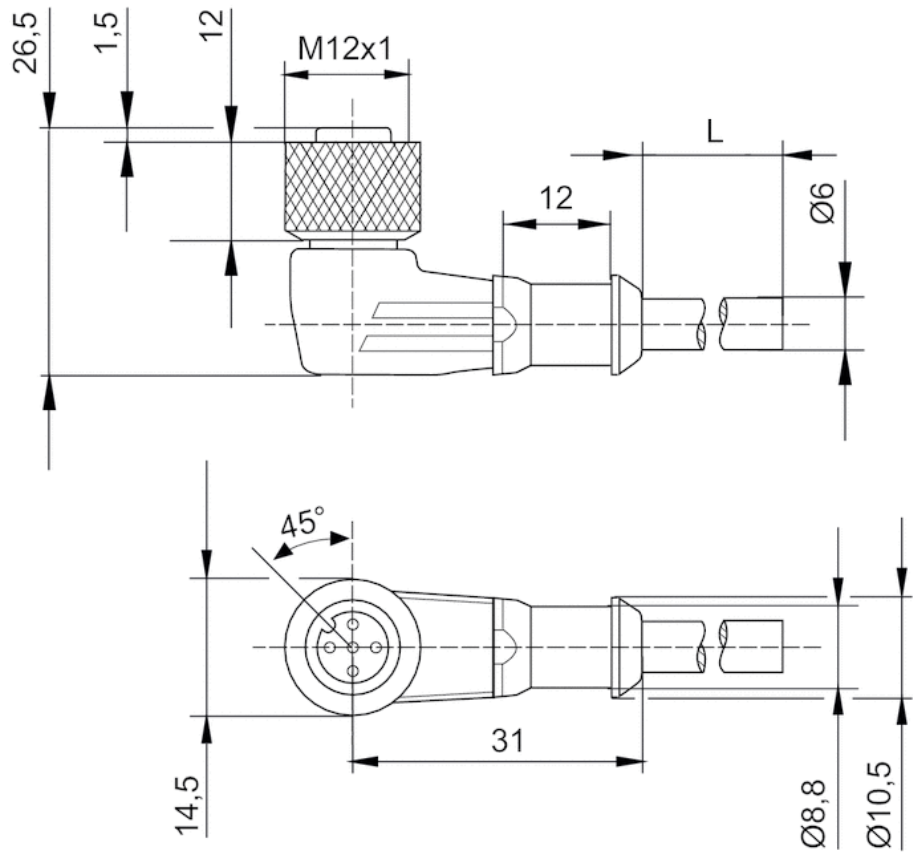
Part No.	Max. current	Number of wires	Cable-Ø	Cable length	Weight
R419800109	4 A	5	6 mm	2.5 m	0.145 kg
R419800110	4 A	5	6 mm	5 m	0.27 kg
R419800546	4 A	5	6 mm	10 m	0.514 kg

Technical information

Material	
Housing	Thermoplastic elastomer
Cable sheath	Polyurethane

Dimensions

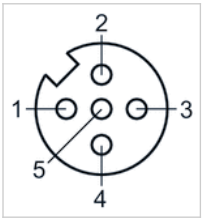
Dimensions



L = length

Pin assignments

Pin assignment, socket



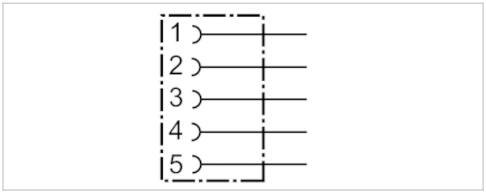
(1) BN=brown
(2) WH=white
3) BU=blue
(4) BK=black
(5) GY=grey

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

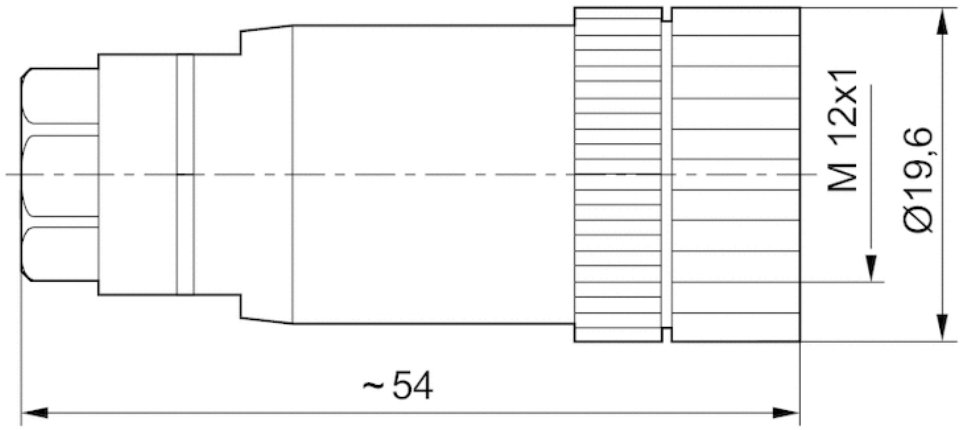
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

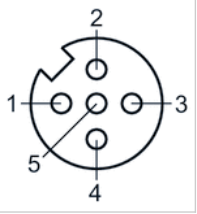
Dimensions

Dimensions



Pin assignments

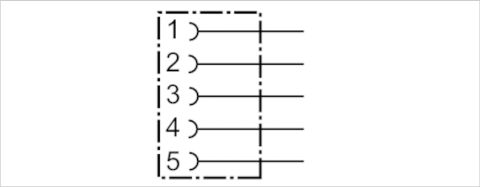
Pin assignment, socket



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

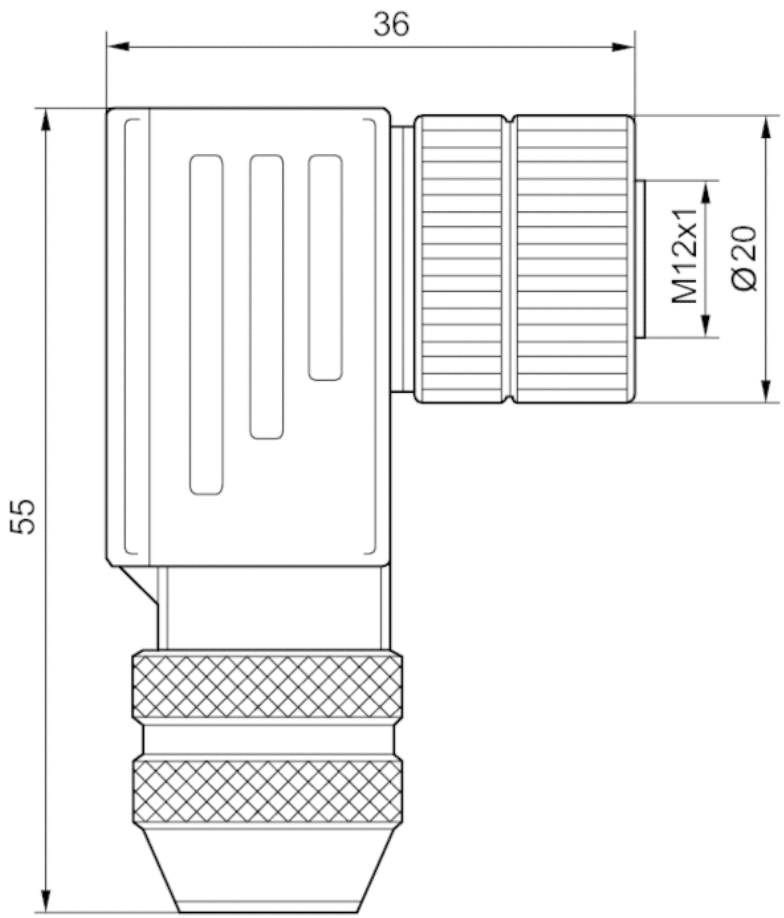
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Die cast zinc

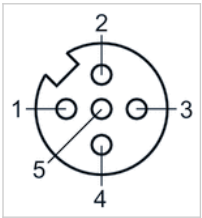
Dimensions

Dimensions



Pin assignments

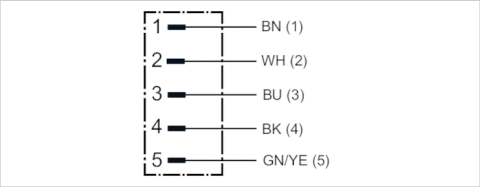
Pin assignment, socket



Round plug connector, Series CON-RD

- Plug M12x1 5-pin A-coded straight 180°
- open cable ends 5-pin
- with cable
- unshielded





Protection class	IP68
Weight	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

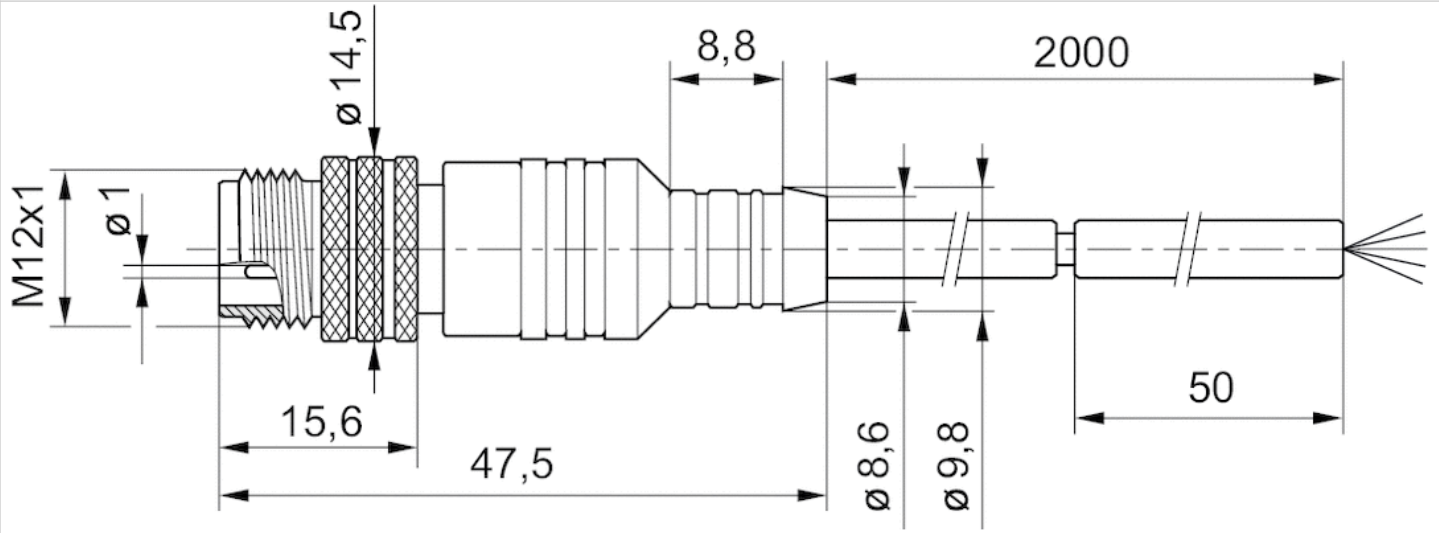
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyvinyl chloride

Dimensions

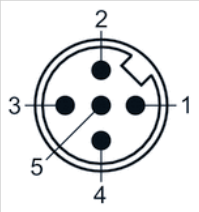
Dimensions



L = length

Pin assignments

Plug pin assignment

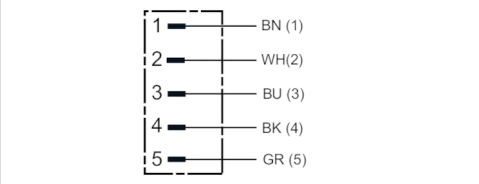


(1) BN=brown
(2) WH=white
(3) BU=blue
(4) BK=black
(5) GRN-Y=green-yellow

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 mm²
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

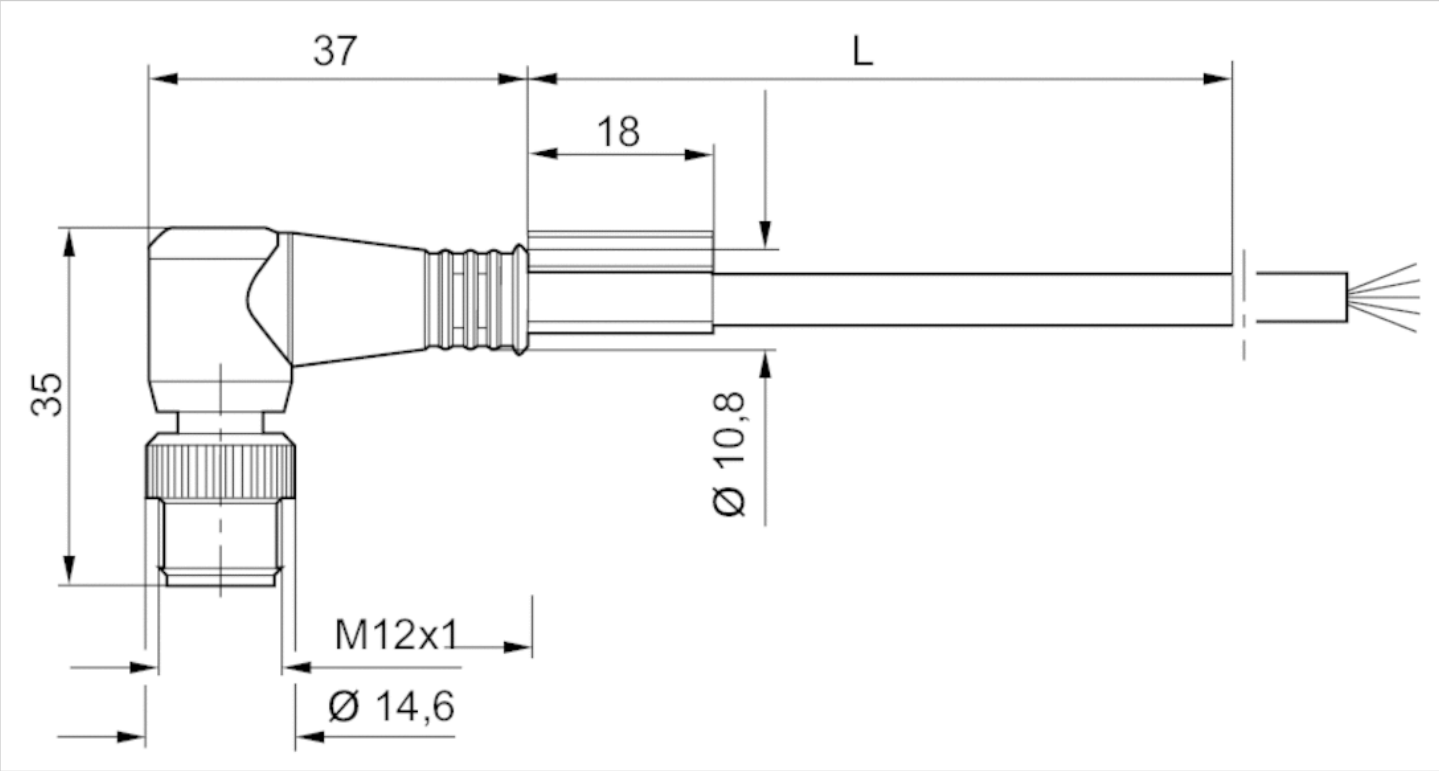
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyurethane
Cable sheath	Polyurethane

Dimensions

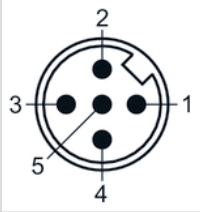
Dimensions



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

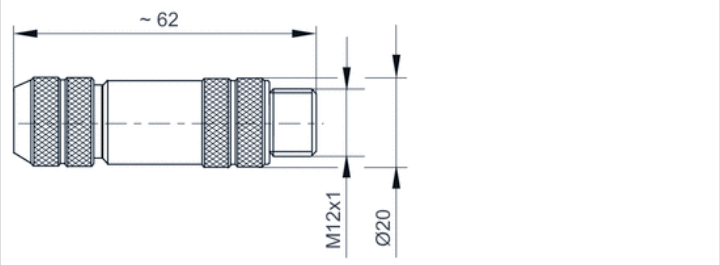
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated

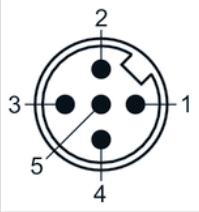
Dimensions

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

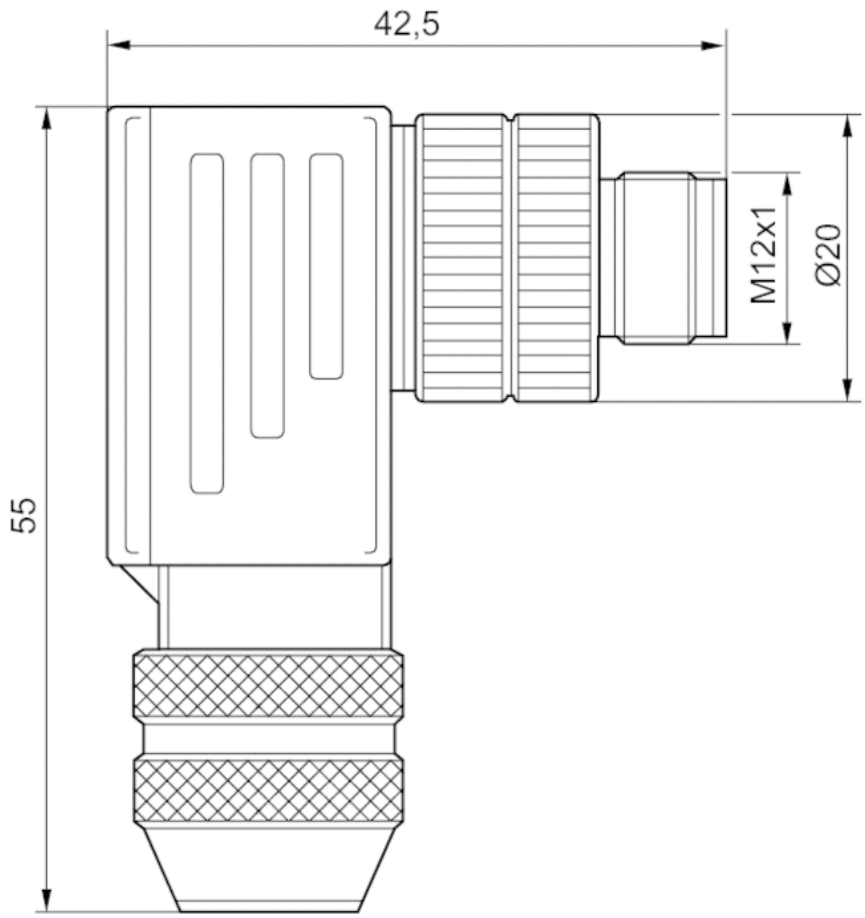
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Brass, nickel-plated

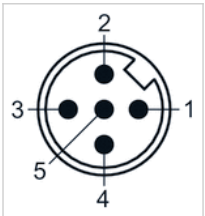
Dimensions

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

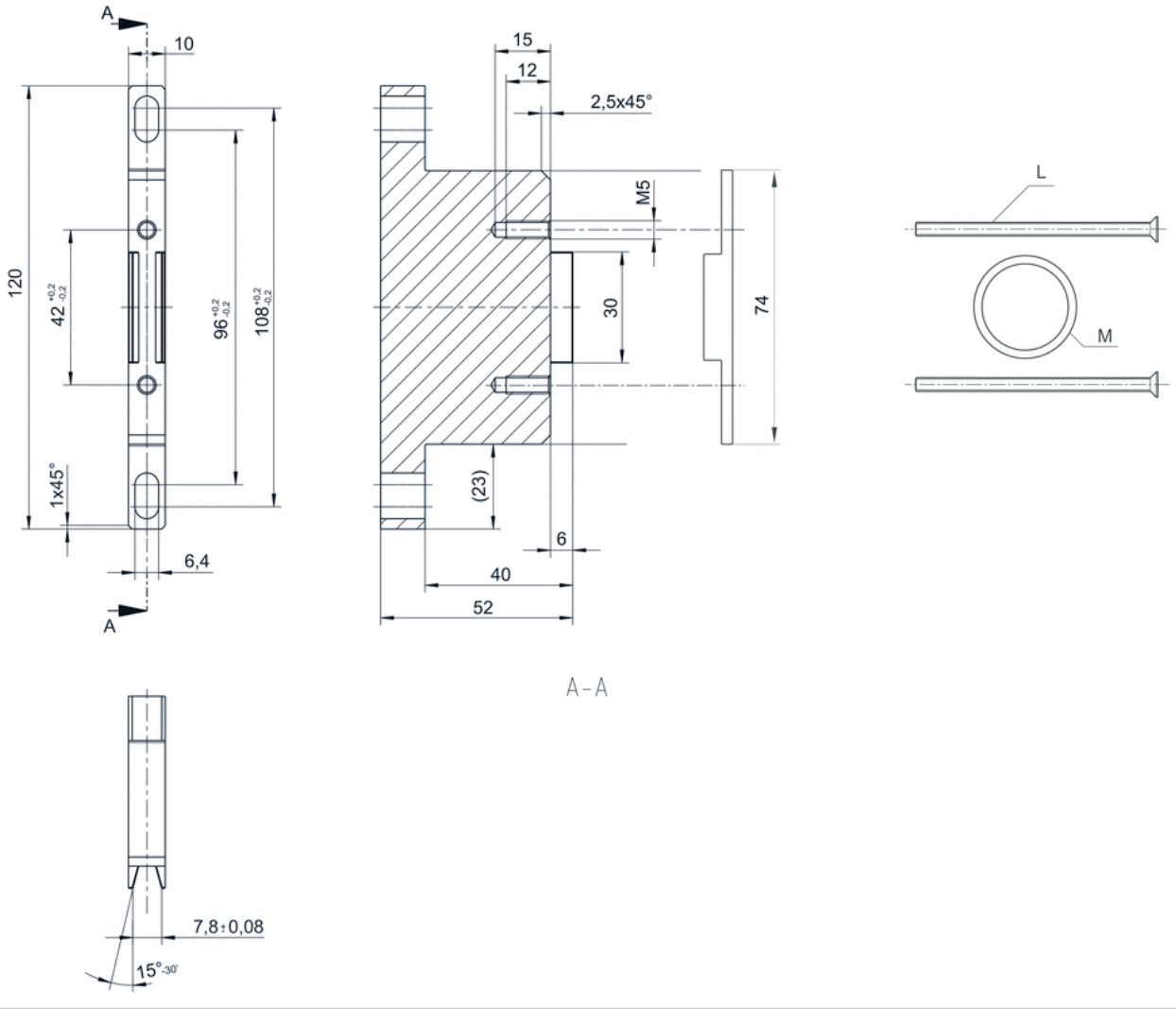
Scope of delivery incl. 2 mounting screws M5x68-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

Technical information

Material	
Housing	Aluminum
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions

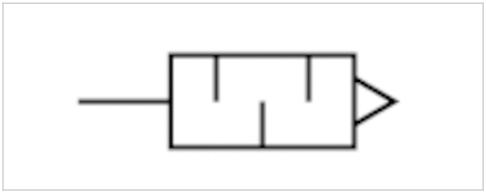


L = Mounting screw
M = O-ring

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

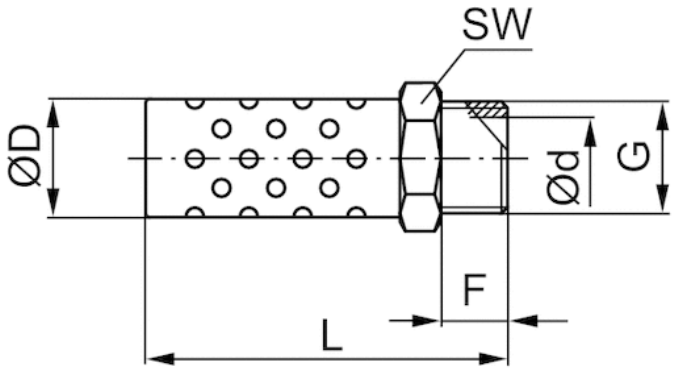
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

Technical information

Material	
Silencer	Metal braiding
Thread	Aluminum

Dimensions

Dimensions



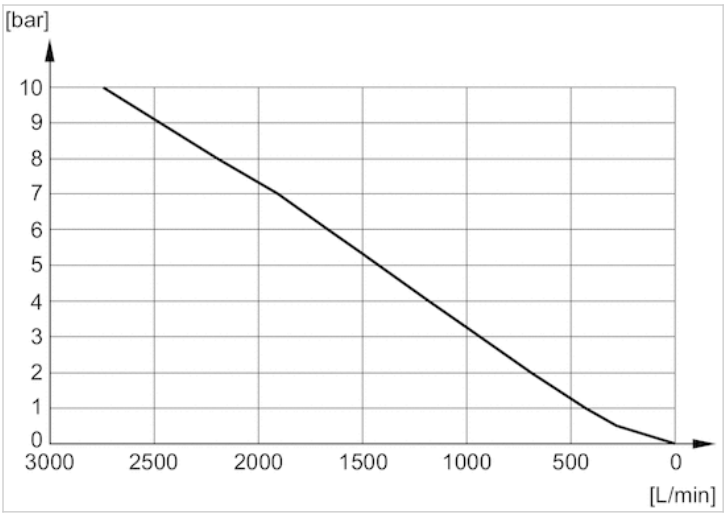
Dimensions

Part No.	Port G	L	F	D	d	SW
R412010249	G 1	91	15.5	32.3	26	34

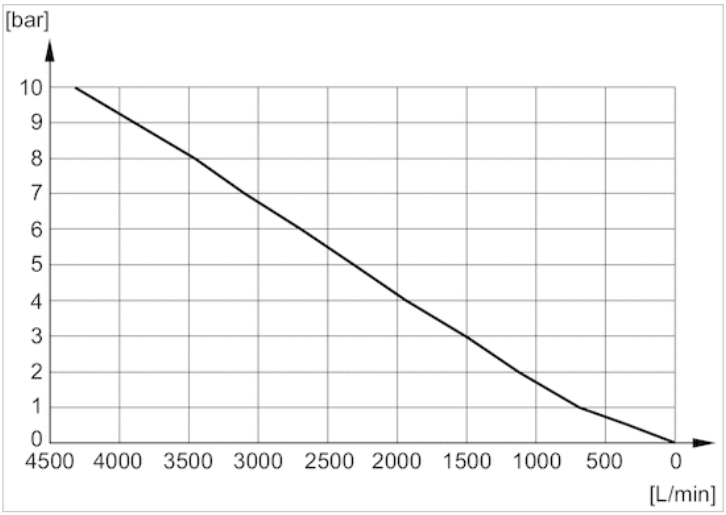
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

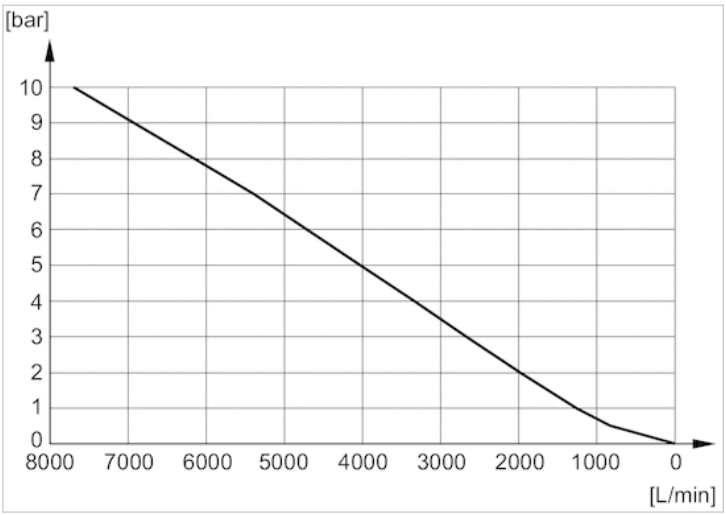
Flow diagram, R412010283



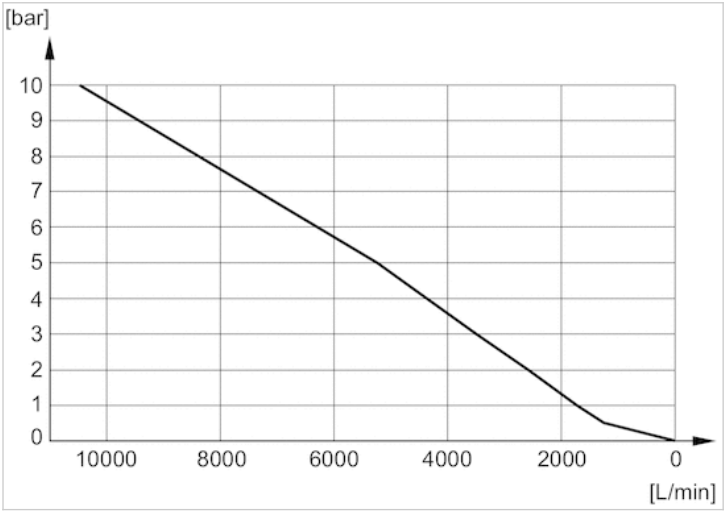
Flow diagram, R412010245



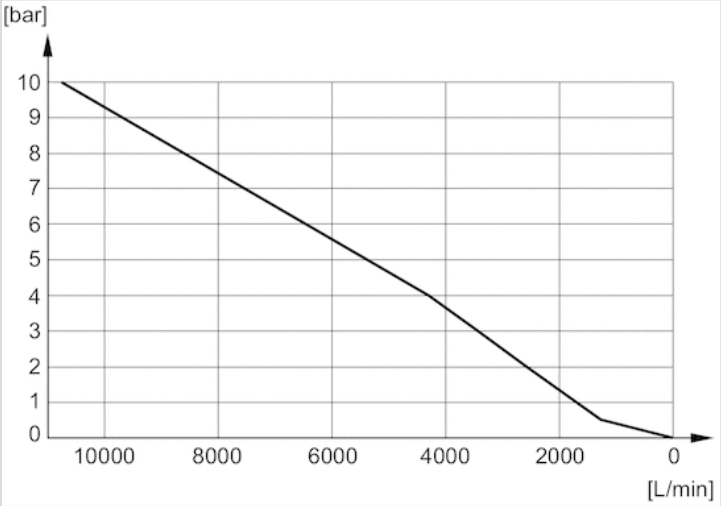
Flow diagram, R412010246



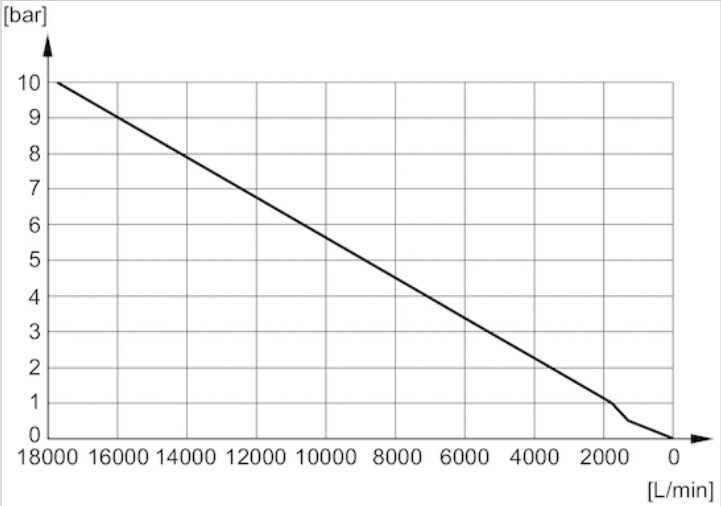
Flow diagram, R412010247



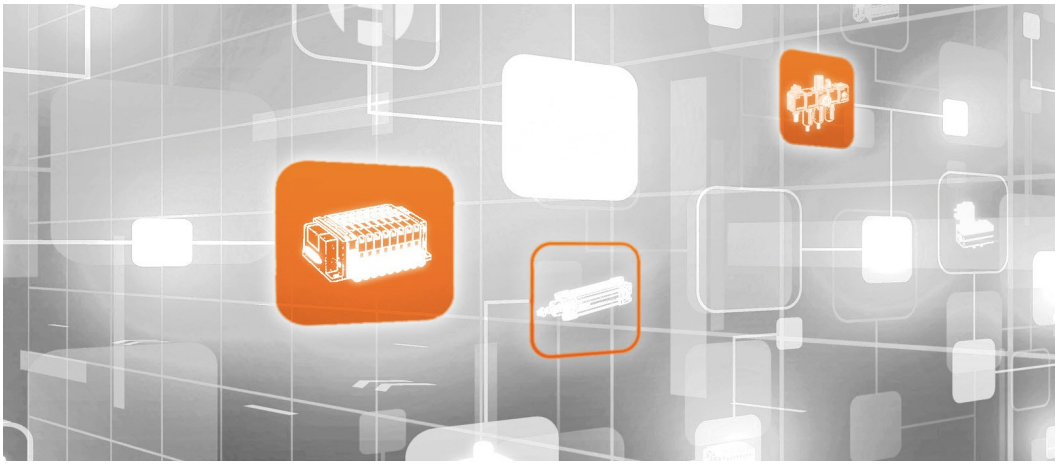
Flow diagram, R412010248



Flow diagram, R412010249



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