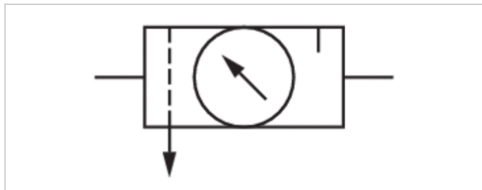


Maintenance unit, 2-part, Series AS2-ACD

- G 1/4, G 3/8
- lockable
- for padlocks
- with pressure gauge



Version	2-in-1, Can be assembled into blocks
Parts	Filter pressure regulator, Lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 116 psi
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	1.35 fl.oz.
Type of filling	Manual oil filling, Semi-automatic oil filling during operation
Weight	See table below

Technical data

Part No.	Port	Flow	Working pressure min./max.	Condensate drain
		Qn		
R412006298	G 1/4	1.83 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006304	G 1/4	1.83 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006299	G 1/4	1.83 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006305	G 1/4	1.83 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006300	G 1/4	1.83 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006306	G 1/4	1.83 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006307	G 3/8	2.03 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006308	G 3/8	2.03 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006309	G 3/8	2.03 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006313	G 3/8	2.03 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006314	G 3/8	2.03 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006315	G 3/8	2.03 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	ATEX	Weight	
R412006298	Polycarbonate	Polyamide	suitable for ATEX	1.4 lbs	1)
R412006304	Die cast zinc	-	suitable for ATEX	1.4 lbs	1)
R412006299	Polycarbonate	Polyamide	suitable for ATEX	1.49 lbs	1)

Part No.	Reservoir	Protective guard	ATEX	Weight	
R412006305	Die cast zinc	-	suitable for ATEX	1.49 lbs	1)
R412006300	Polycarbonate	Polyamide	suitable for ATEX	1.49 lbs	1)
R412006306	Die cast zinc	-	suitable for ATEX	1.49 lbs	1)
R412006307	Polycarbonate	Polyamide	suitable for ATEX	1.4 lbs	1)
R412006308	Polycarbonate	Polyamide	suitable for ATEX	1.49 lbs	1)
R412006309	Polycarbonate	Polyamide	suitable for ATEX	1.49 lbs	1)
R412006313	Die cast zinc	-	-	1.4 lbs	-
R412006314	Die cast zinc	-	-	1.49 lbs	-
R412006315	Die cast zinc	-	-	1.49 lbs	-

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

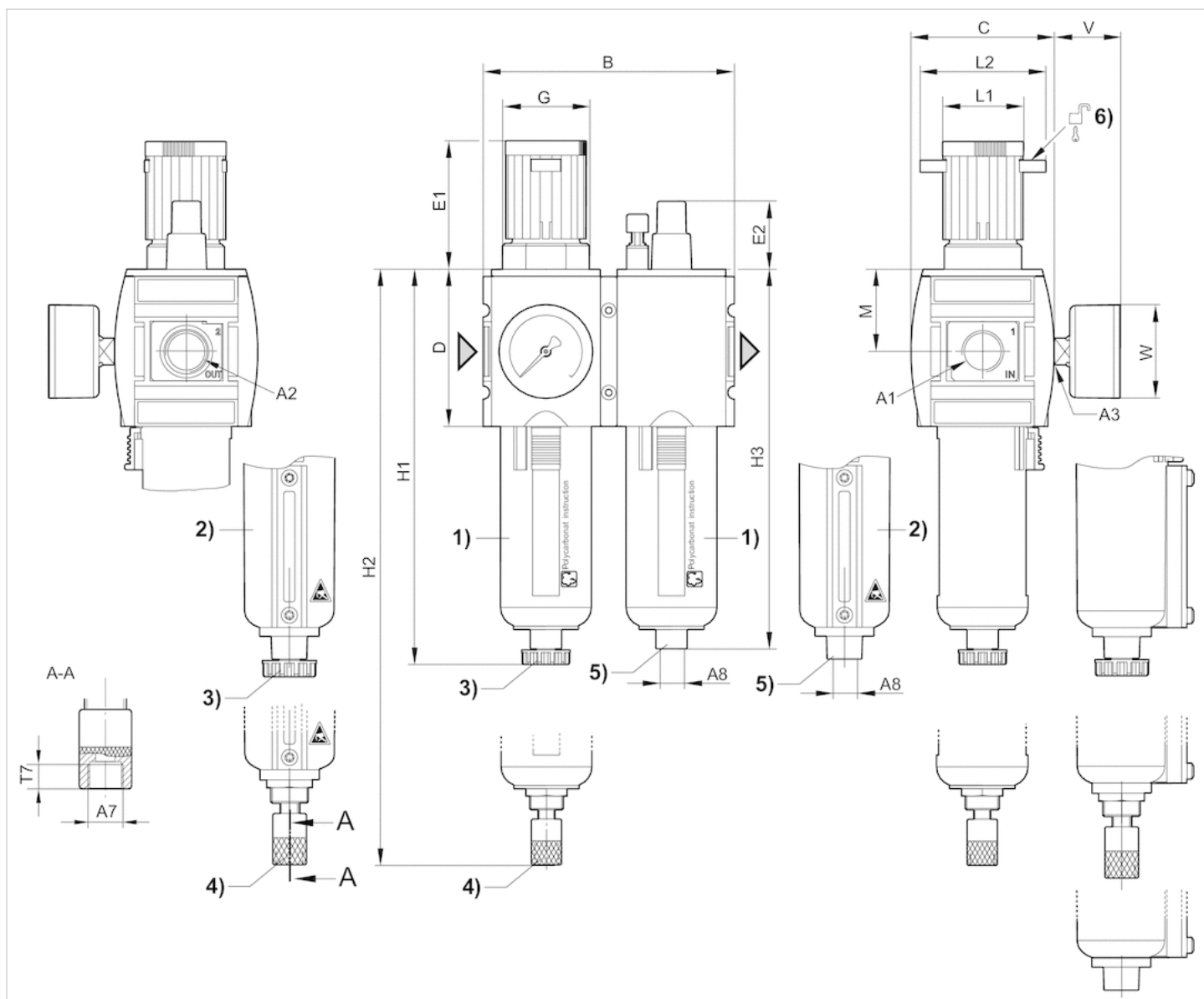
Compressed air class 6 : 7 : -

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

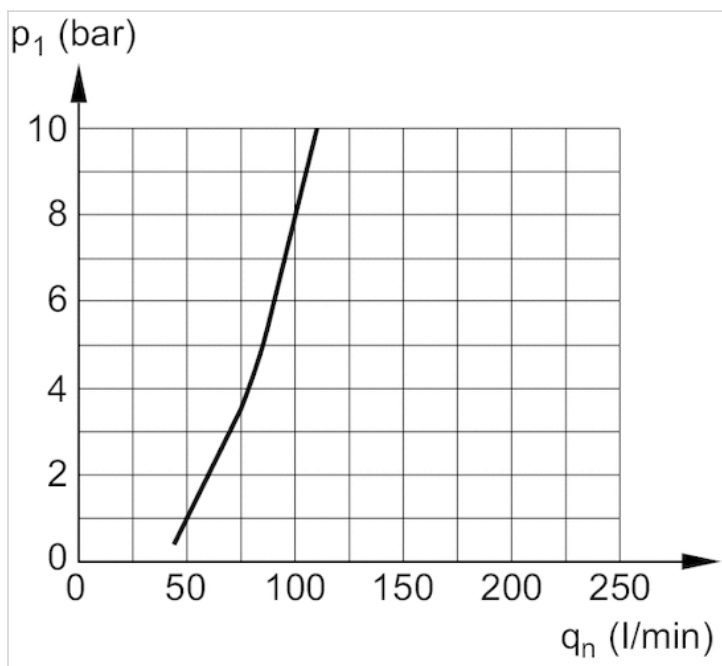
6) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2	H3	M	L1	L2	T7	V	W
G 1/4	G 1/4	G 1/4	G 1/8	G 1/8	104	59	65	57.9	29.5	M36x1,5	163.5	180.5	157	34	34	54	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	104	59	65	57.9	29.5	M36x1,5	163.5	180.5	157	34	34	54	8.5	37	50

Diagrams

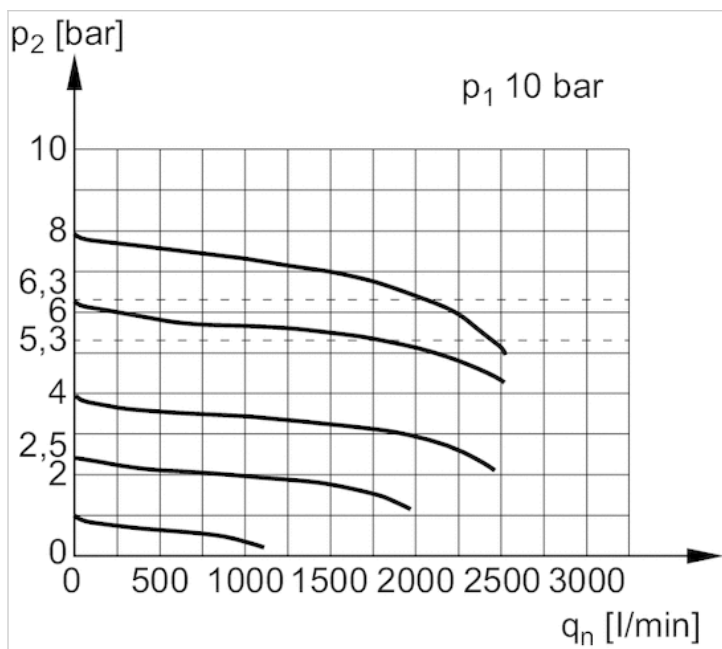
Lubricator activation margin



p_1 = working pressure

q_n = nominal flow

Flow rate characteristic (p_2 : 0.5 - 8 bar)



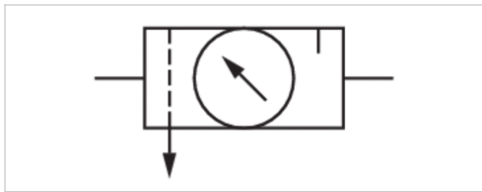
p_1 = Working pressure

p_2 = Secondary pressure

q_n = Nominal flow

Maintenance unit, 3-part, Series AS2- ACT

- G 1/4, G 3/8
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	3-part, Can be assembled into blocks
Parts	Pressure regulator, Filter, Lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 116 psi
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	1.35 fl.oz.
Type of filling	Manual oil filling, Semi-automatic oil filling during operation
Weight	See table below

Technical data

Part No.	Port	Flow	Working pressure min./max.	Condensate drain
		Qn		
R412006318	G 1/4	1.42 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006324	G 1/4	1.42 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006319	G 1/4	1.42 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006325	G 1/4	1.42 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006320	G 1/4	1.42 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006326	G 1/4	1.42 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006327	G 3/8	1.63 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006333	G 3/8	1.63 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006328	G 3/8	1.63 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006334	G 3/8	1.63 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006329	G 3/8	1.63 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006335	G 3/8	1.63 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412006318	Polycarbonate	Polyamide	1.72 lbs
R412006324	Die cast zinc	-	1.72 lbs

Part No.	Reservoir	Protective guard	Weight
R412006319	Polycarbonate	Polyamide	1.82 lbs
R412006325	Die cast zinc	-	1.82 lbs
R412006320	Polycarbonate	Polyamide	1.82 lbs
R412006326	Die cast zinc	-	1.82 lbs
R412006327	Polycarbonate	Polyamide	1.72 lbs
R412006333	Die cast zinc	-	1.72 lbs
R412006328	Polycarbonate	Polyamide	1.82 lbs
R412006334	Die cast zinc	-	1.82 lbs
R412006329	Polycarbonate	Polyamide	1.82 lbs
R412006335	Die cast zinc	-	1.82 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

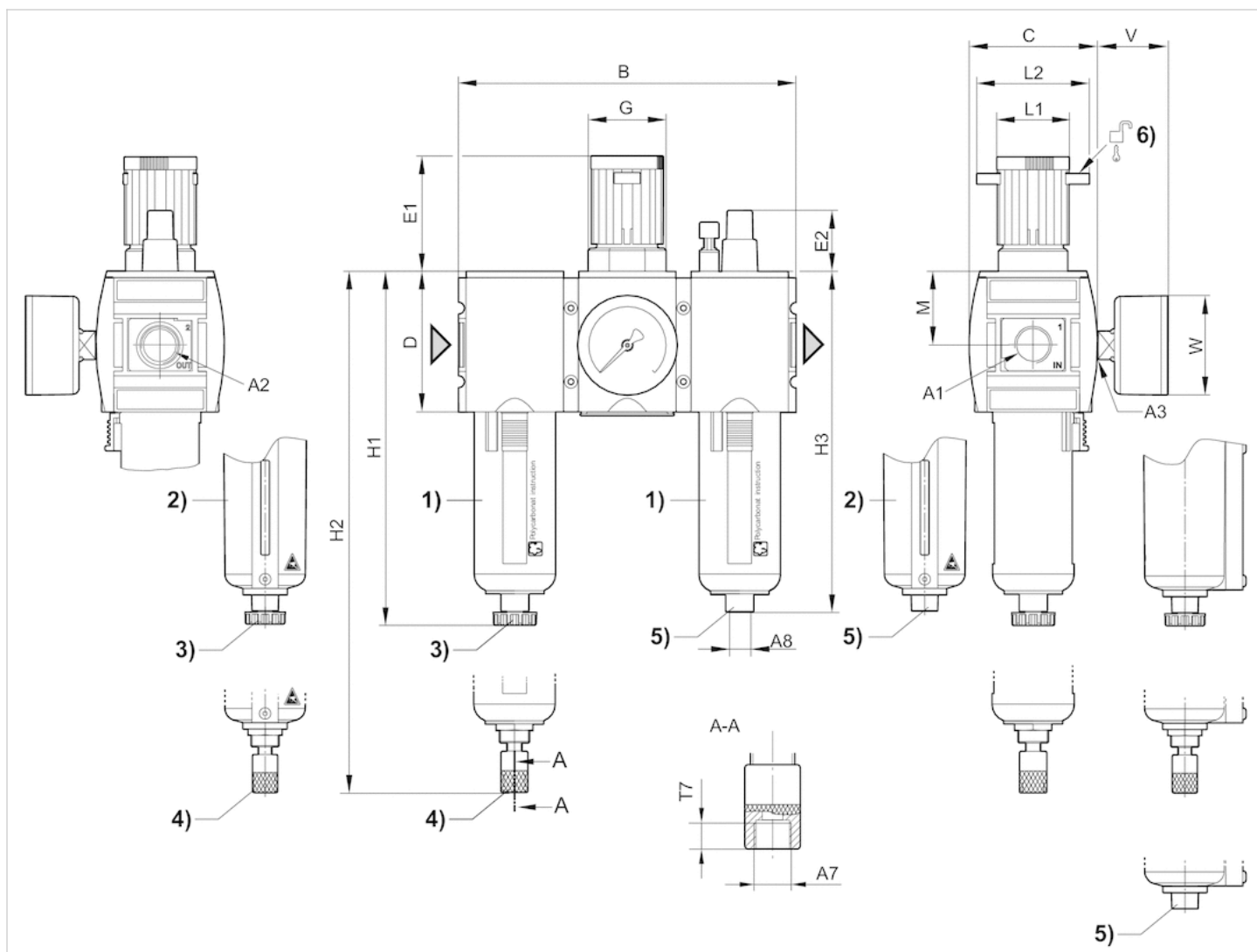
Compressed air class 6 : 7 : -

Technical information

Material	
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

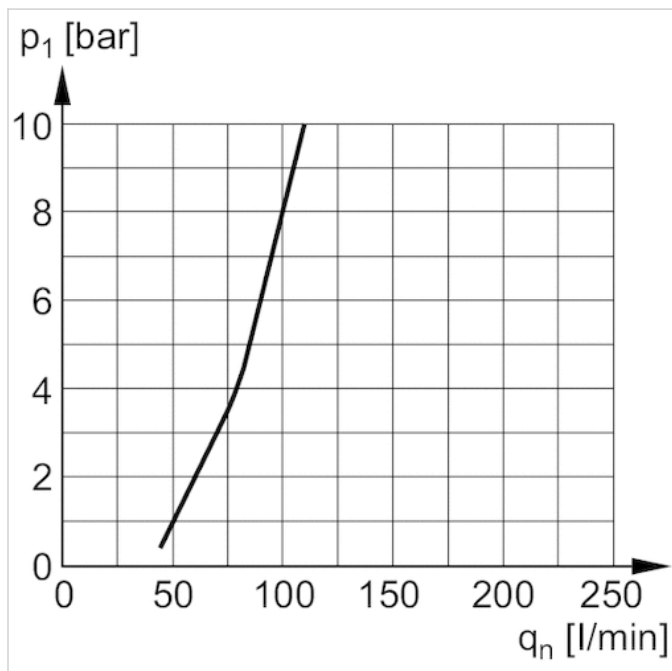
5) Port for semi-automatic oil filling 6) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	A8	B	C	D	E1	E2	G	H1	H2	H3	M	L1	L2	T7	V	W
G 1/4	G 1/4	G 1/4	G 1/8	G 1/8	156	59	65	57.9	29.5	M36x1,5	163.5	180.5	157	34	34	54	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	G 1/8	156	59	65	57.9	29.5	M36x1,5	163.5	180.5	157	34	34	54	8.5	37	50

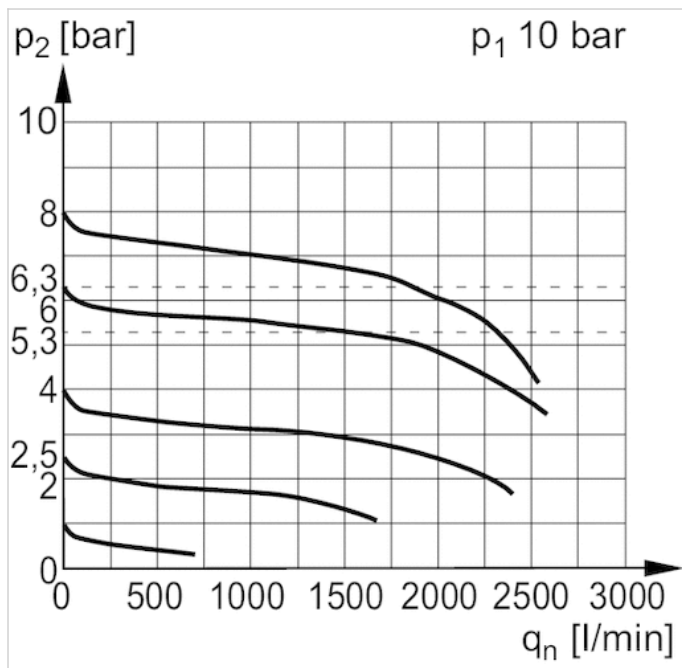
Diagrams

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

Pressure regulator, Series AS2-RGS

- G 1/4, G 3/8
- $Q_n = 2.24\text{--}2.74\text{ Cv}$
- Standard pressure regulator
- Activation Mechanical
- lockable
- for padlocks
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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
Weight	See table below

Technical data

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Q_n		
R412006101			G 1/4	2.24 Cv	2 ... 232 psi	2 ... 14 psi
R412006103			G 1/4	2.24 Cv	2 ... 232 psi	2 ... 29 psi
R412006105			G 1/4	2.24 Cv	3 ... 232 psi	3 ... 58 psi
R412006107			G 1/4	2.24 Cv	8 ... 232 psi	8 ... 116 psi
R412006109			G 1/4	2.24 Cv	8 ... 232 psi	8 ... 145 psi
R412006111			G 1/4	2.24 Cv	8 ... 232 psi	8 ... 232 psi
R412006100		—	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 14 psi
R412006102		—	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 29 psi
R412006104		—	G 1/4	2.24 Cv	3 ... 232 psi	3 ... 58 psi
R412006106		—	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 116 psi
R412006108		—	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 145 psi
R412006110		—	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 232 psi
R412006113			G 3/8	2.74 Cv	2 ... 232 psi	2 ... 14 psi
R412006115			G 3/8	2.74 Cv	2 ... 232 psi	2 ... 29 psi
R412006117			G 3/8	2.74 Cv	3 ... 232 psi	3 ... 58 psi
R412006119			G 3/8	2.74 Cv	8 ... 232 psi	8 ... 116 psi
R412006121			G 3/8	2.74 Cv	8 ... 232 psi	8 ... 145 psi
R412006123			G 3/8	2.74 Cv	8 ... 232 psi	8 ... 232 psi
R412006112		—	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 14 psi
R412006114		—	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 29 psi

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.
				Qn		
R412006116		—	G 3/8	2.74 Cv	3 ... 232 psi	3 ... 58 psi
R412006118		—	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 116 psi
R412006120		—	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 145 psi
R412006122		—	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 232 psi
R414012351		—	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 232 psi

Part No.	Pressure gauge	Weight	
R412006101	with pressure gauge	0.705 lbs	1)
R412006103	with pressure gauge	0.705 lbs	1)
R412006105	with pressure gauge	0.705 lbs	1)
R412006107	with pressure gauge	0.705 lbs	1)
R412006109	with pressure gauge	0.705 lbs	1)
R412006111	with pressure gauge	0.705 lbs	1)
R412006100	-	0.547 lbs	2)
R412006102	-	0.547 lbs	2)
R412006104	-	0.547 lbs	2)
R412006106	-	0.547 lbs	2)
R412006108	-	0.547 lbs	2)
R412006110	-	0.547 lbs	2)
R412006113	with pressure gauge	0.705 lbs	1)
R412006115	with pressure gauge	0.705 lbs	1)
R412006117	with pressure gauge	0.705 lbs	1)
R412006119	with pressure gauge	0.705 lbs	1)
R412006121	with pressure gauge	0.705 lbs	1)
R412006123	with pressure gauge	0.705 lbs	1)
R412006112	-	0.547 lbs	2)
R412006114	-	0.547 lbs	2)
R412006116	-	0.547 lbs	2)
R412006118	-	0.547 lbs	2)
R412006120	-	0.547 lbs	2)
R412006122	-	0.547 lbs	2)
R414012351	-	0.547 lbs	3)

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

1) Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22

2) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

3) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22, Safe rear exhaust in case of drop (removal) of pilot pressure

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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

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 (≤ 4.35 psi over set pressure)

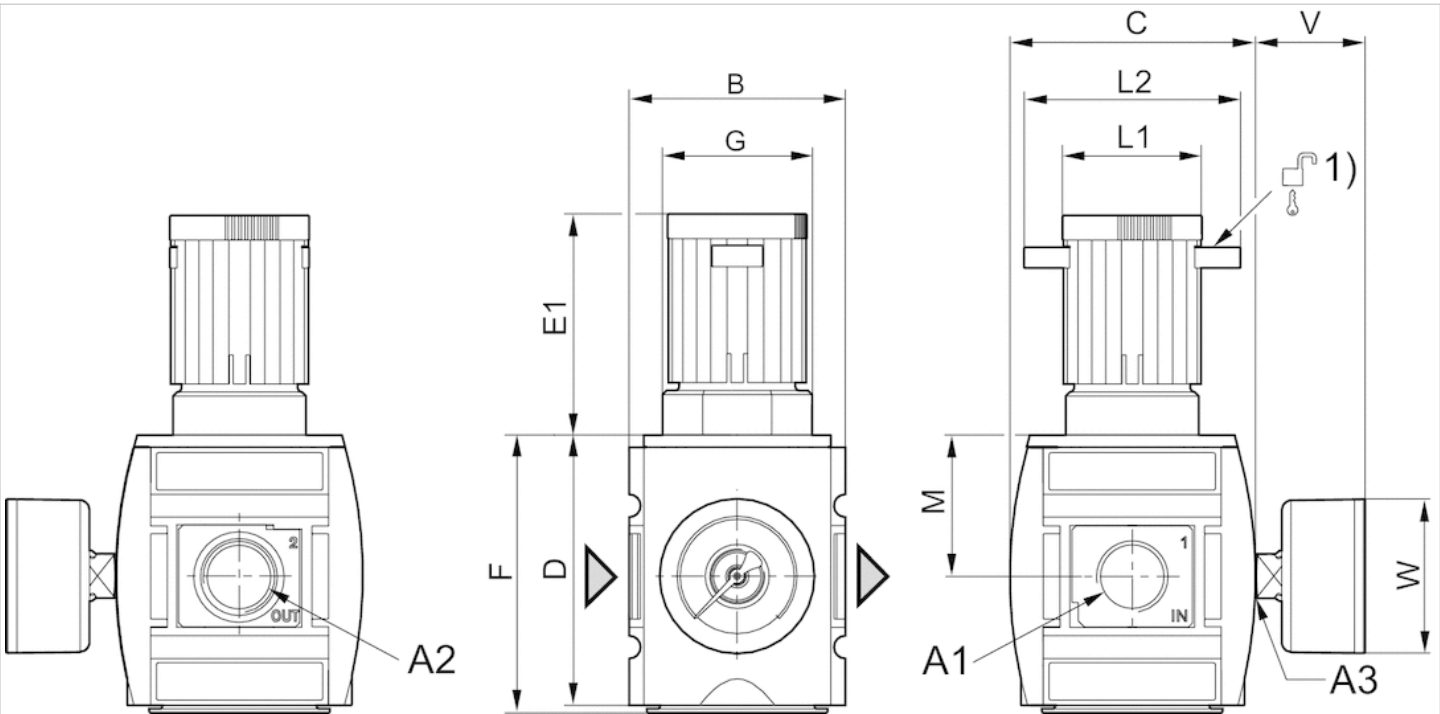
With rear exhaust (> 43.5 psi)

Technical information

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

Dimensions

Dimensions



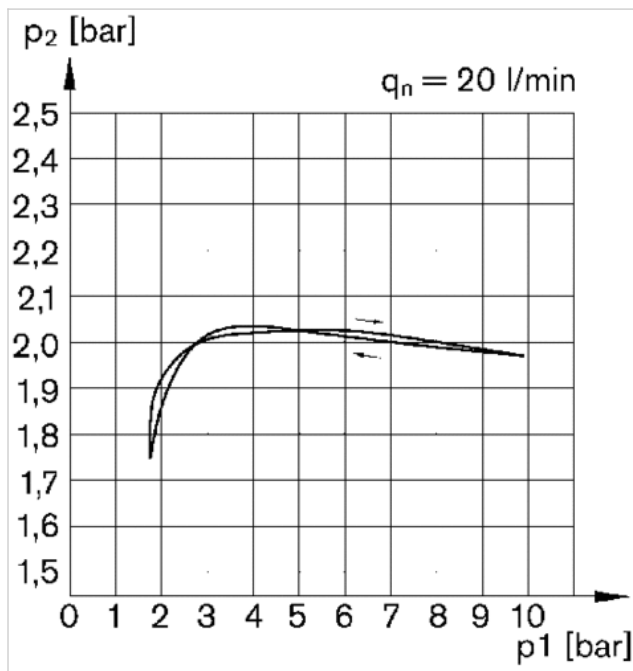
A1 = input
 A2 = output
 A3 = pressure gauge connection
 1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	G	L1	L2	M	V	W
G 1/4	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34	37	50
G 3/8	G 3/8	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34	37	50

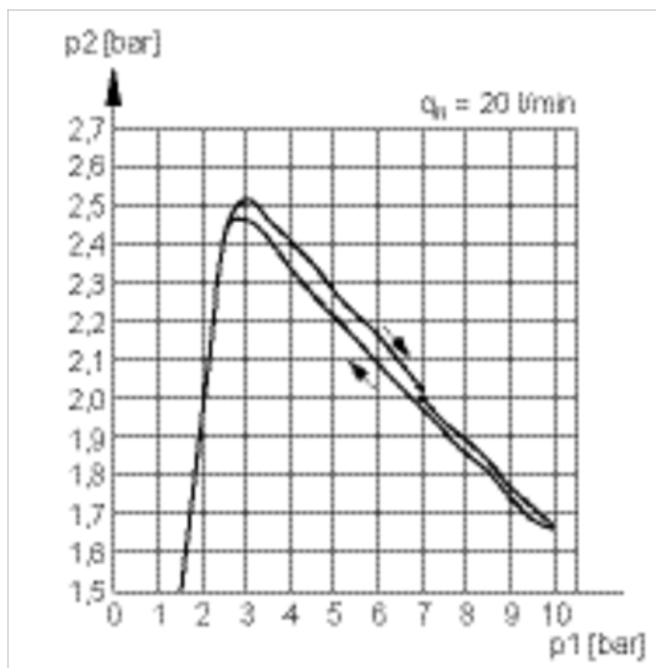
Diagrams

Pressure characteristics curve Standard version



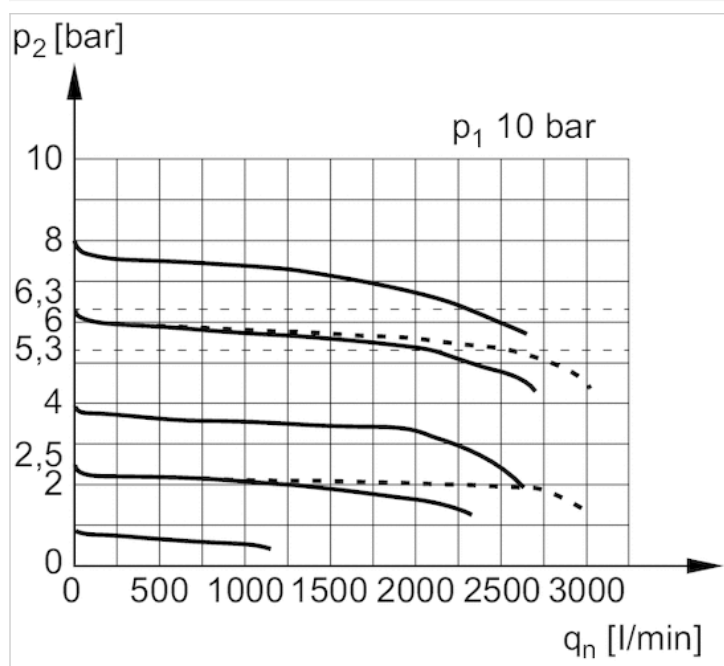
p1 = Working pressure
 p2 = Secondary pressure
 qn = Nominal flow

Pressure characteristics curve Version with safe rear exhaust in case of drop (removal) of pilot



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

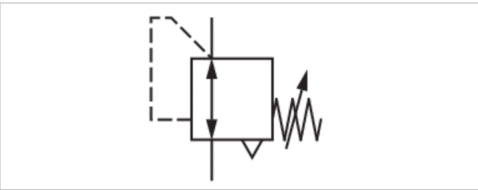
Flow rate characteristic (p2: 05 - 8 bar)



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

Pressure regulator, Series AS2-RGS-...-E11

- G 1/4
- Qn = 2.24 Cv
- Standard pressure regulator
- Activation Mechanical
- lockable
- with E11 locking



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	8 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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.	8 ... 145 psi
Lock type	with E11 locking
Pressure supply	single
Activation	Mechanical
Weight	0.547 lbs

Technical data

Part No.	Port	Flow
		Qn
R412006099	G 1/4	2.24 Cv

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The E11 locking is delivered without a key (see accessories for keys).

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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 (≤ 4.35 psi over set pressure)

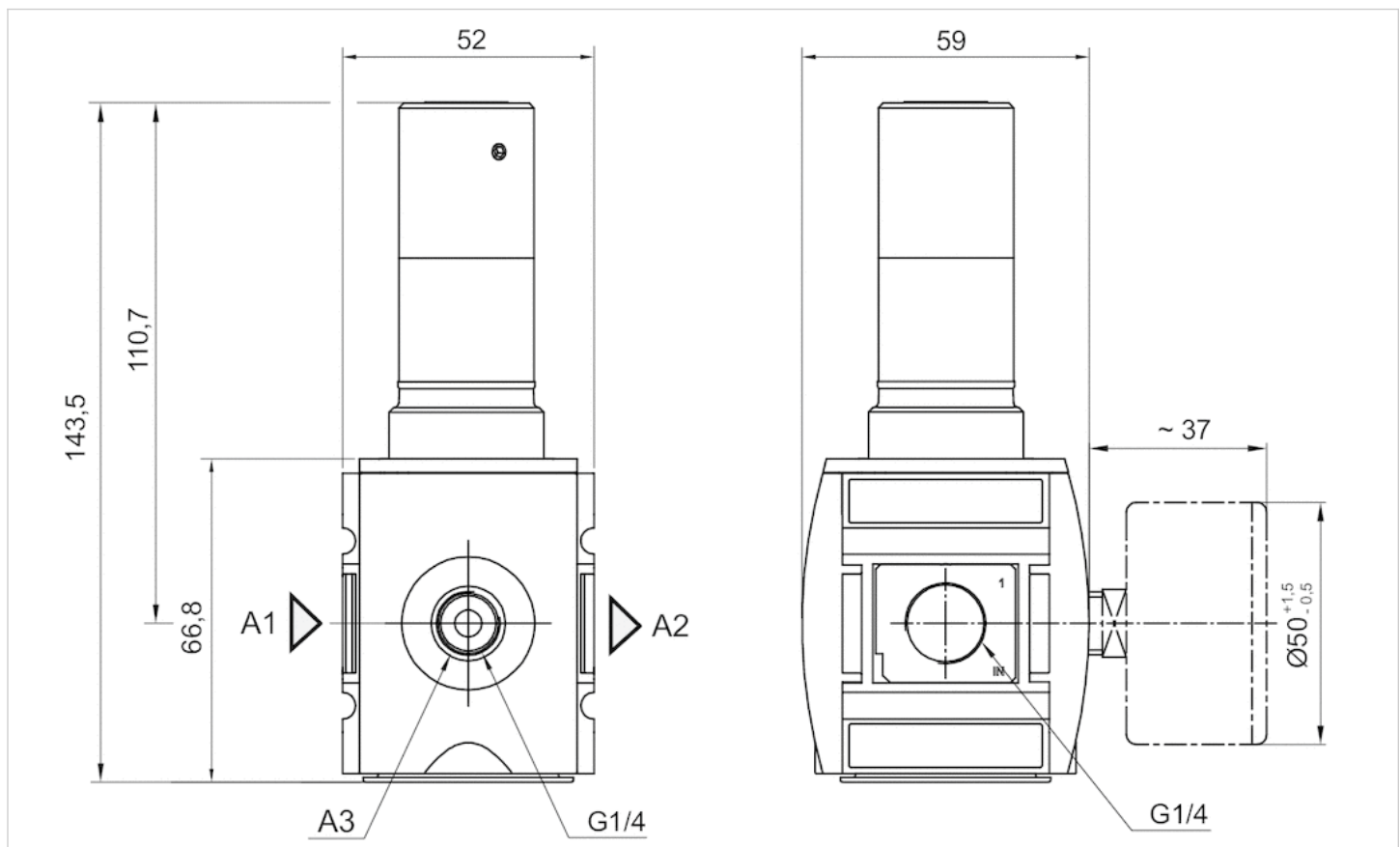
With rear exhaust (> 43.5 psi)

Technical information

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

Dimensions

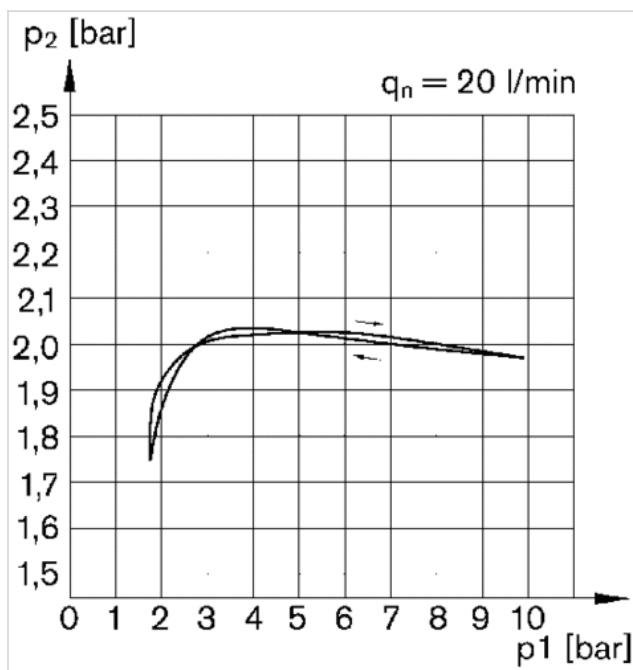
Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection

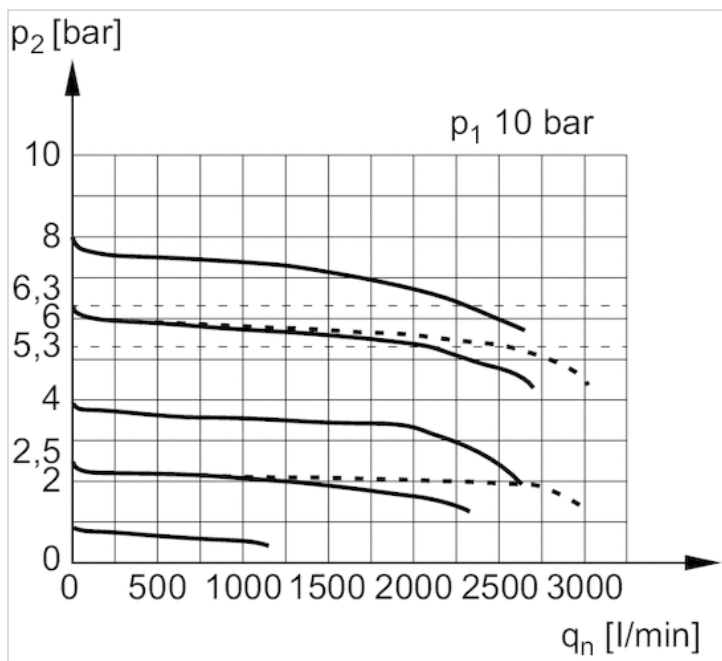
Diagrams

Pressure characteristics curve Standard version



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

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



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

Pressure regulator, Series AS2-RGS-...-DS

- G 1/4, G 3/8
- $Q_n = 2.24\text{--}2.74\text{ Cv}$
- Standard pressure regulator
- Activation Mechanical
- with continuous pressure supply
- lockable
- for padlocks
- suitable for ATEX



Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Regulator type

Regulator function

Adjustment range min./max.

Lock type

Pressure supply

Activation

Weight

Pressure regulator with continuous pressure supply

Any

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

Diaphragm-type pressure regulator, Can be assembled into blocks

with relieving air exhaust

See table below

for padlocks

double

Mechanical

0.547 lbs

Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Q_n		
R412006124	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 14 psi
R412006125	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 29 psi
R412006126	G 1/4	2.24 Cv	3 ... 232 psi	3 ... 58 psi
R412006127	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 116 psi
R412006128	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 145 psi
R412006129	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 232 psi
R412006130	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 14 psi
R412006131	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 29 psi
R412006132	G 3/8	2.74 Cv	3 ... 232 psi	3 ... 58 psi
R412006133	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 116 psi
R412006134	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 145 psi
R412006135	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 232 psi

Part No.	Max. pressure gauge Ø in blocked state
R412006124	50 mm

Part No.	Max. pressure gauge Ø in blocked state
R412006125	50 mm
R412006126	50 mm
R412006127	50 mm
R412006128	50 mm
R412006129	50 mm
R412006130	50 mm
R412006131	50 mm
R412006132	50 mm
R412006133	50 mm
R412006134	50 mm
R412006135	50 mm

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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

Relieving exhaust (≤ 4.35 psi over set pressure)

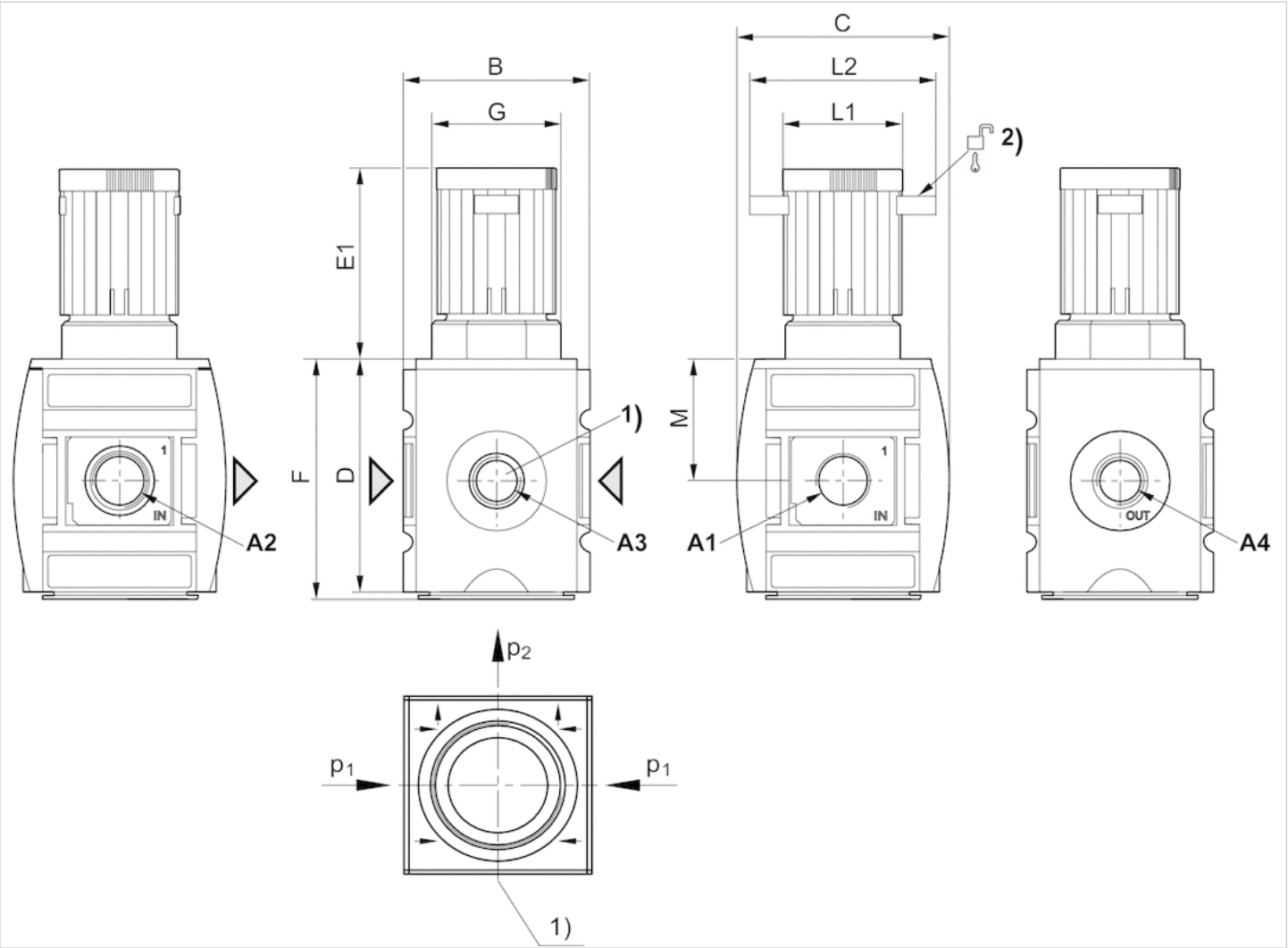
With rear exhaust (> 43.5 psi)

Technical information

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

Dimensions

Dimensions



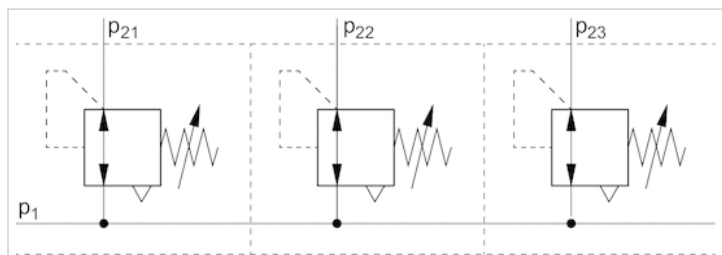
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = output
- 1) Pressure gauge connection
- 2) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A4	B	C	D	E1	F	G	L1	L2	M
G 1/4	G 1/4	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34
G 3/8	G 3/8	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34

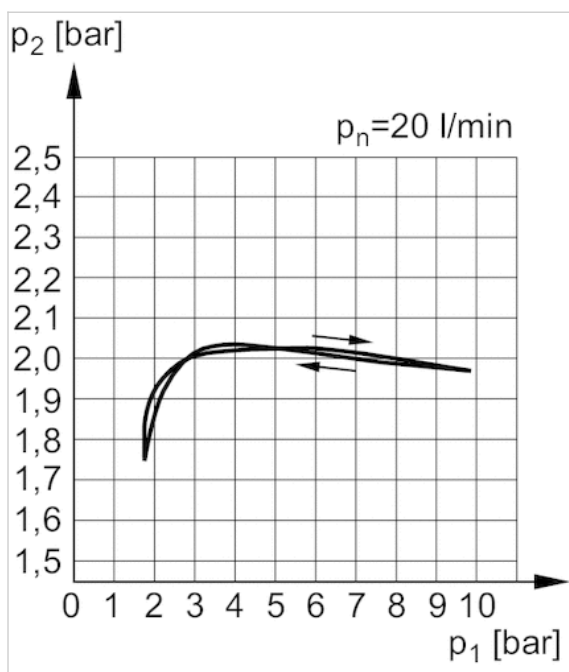
Diagrams

Application example



p_1 = working pressure

Pressure characteristics curve

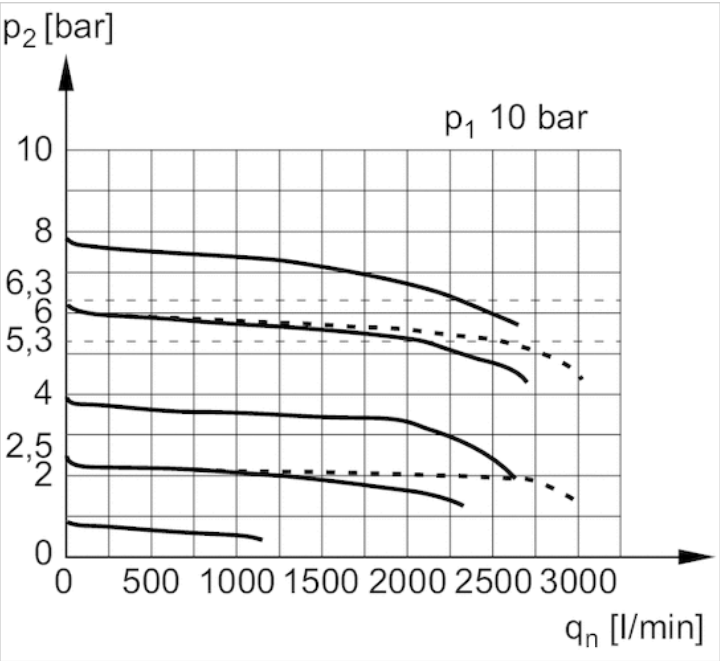


p_1 = Working pressure

p_2 = Secondary pressure

q_n = Nominal flow

Flow rate characteristic p2: 05 - 10 bar



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

Precision pressure regulator, Series AS2-RGP

- G 1/4, G 3/8
- Qn = 2.24-2.74 Cv
- Precision pressure regulator
- Activation Mechanical
- lockable
- for padlocks
- suitable for ATEX



Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Regulator type

Regulator function

Adjustment range min./max.

Lock type

Pressure supply

Activation

Weight

Precision pressure regulator

Any

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

Diaphragm-type pressure regulator, Can be assembled into blocks

with relieving air exhaust

See table below

for padlocks

single

Mechanical

See table below

Technical data

Part No.			Port	Flow	Working pressure min./max.	Adjustment range min./max.	Weight
				Qn			
R412006137			G 1/4	2.24 Cv	2 ... 232 psi	2 ... 14 psi	0.705 lbs
R412006139			G 1/4	2.24 Cv	2 ... 232 psi	2 ... 29 psi	0.705 lbs
R412006141			G 1/4	2.24 Cv	3 ... 232 psi	3 ... 58 psi	0.705 lbs
R412006143			G 1/4	2.24 Cv	8 ... 232 psi	8 ... 116 psi	0.705 lbs
R412006145			G 1/4	2.24 Cv	8 ... 232 psi	8 ... 145 psi	0.705 lbs
R412006136		—	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 14 psi	0.547 lbs
R412006138		—	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 29 psi	0.547 lbs
R412006140		—	G 1/4	2.24 Cv	3 ... 232 psi	3 ... 58 psi	0.547 lbs
R412006142		—	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 116 psi	0.547 lbs
R412006144		—	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 145 psi	0.547 lbs
R412006149			G 3/8	2.74 Cv	2 ... 232 psi	2 ... 14 psi	0.705 lbs
R412006151			G 3/8	2.74 Cv	2 ... 232 psi	2 ... 29 psi	0.705 lbs
R412006153			G 3/8	2.74 Cv	3 ... 232 psi	3 ... 58 psi	0.705 lbs
R412006155			G 3/8	2.74 Cv	8 ... 232 psi	8 ... 116 psi	0.705 lbs
R412006157			G 3/8	2.74 Cv	8 ... 232 psi	8 ... 145 psi	0.705 lbs
R412006148		—	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 14 psi	0.547 lbs
R412006150		—	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 29 psi	0.547 lbs
R412006152		—	G 3/8	2.74 Cv	3 ... 232 psi	3 ... 58 psi	0.547 lbs
R412006154		—	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 116 psi	0.547 lbs

Part No.			Port	Flow Qn	Working pressure min./max.	Adjustment range min./max.	Weight
R412006156		—	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 145 psi	0.547 lbs

Part No.	
R412006137	1)
R412006139	1)
R412006141	1)
R412006143	1)
R412006145	1)
R412006136	2)
R412006138	2)
R412006140	2)
R412006142	2)
R412006144	2)
R412006149	1)
R412006151	1)
R412006153	1)
R412006155	1)
R412006157	1)
R412006148	2)
R412006150	2)
R412006152	2)
R412006154	2)
R412006156	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

1) Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22

2) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Recommended pre-filter: 5 µm

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

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

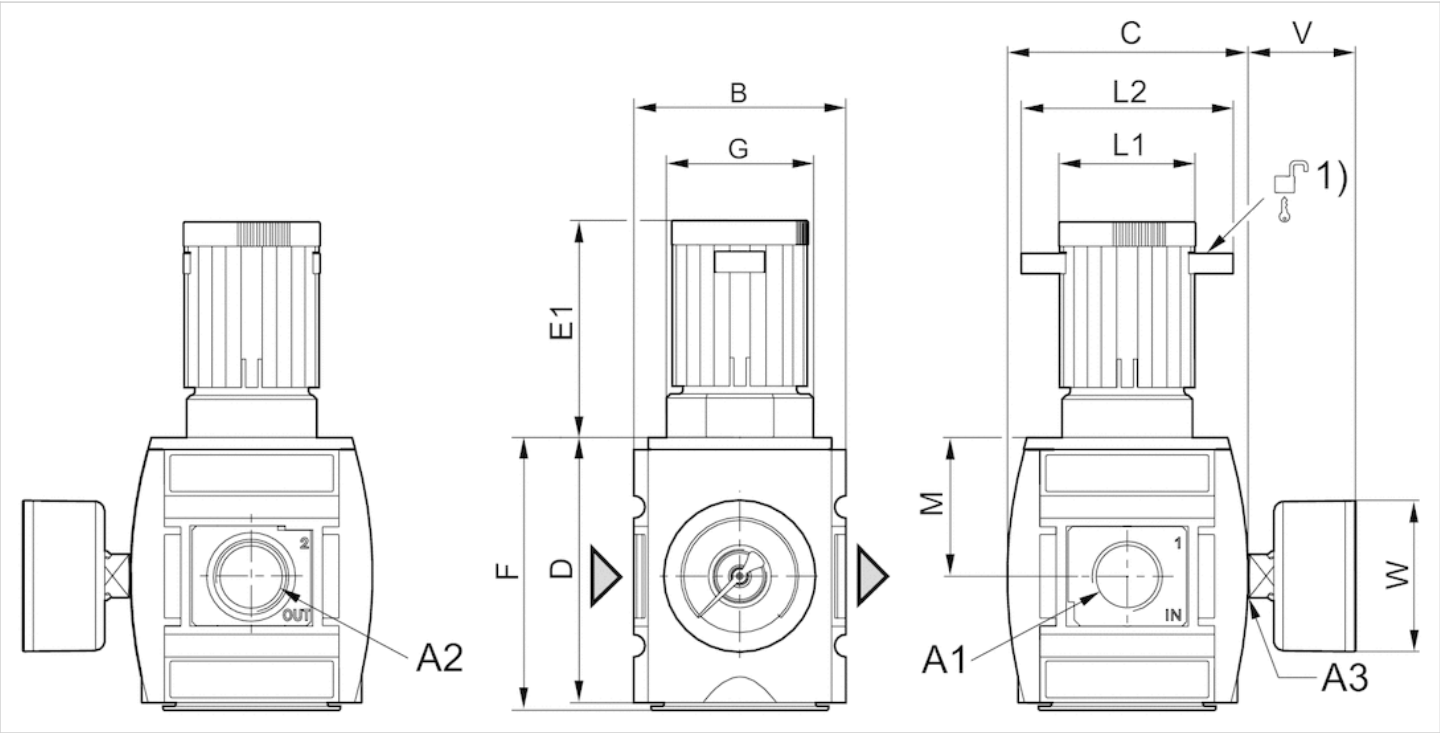
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Dimensions



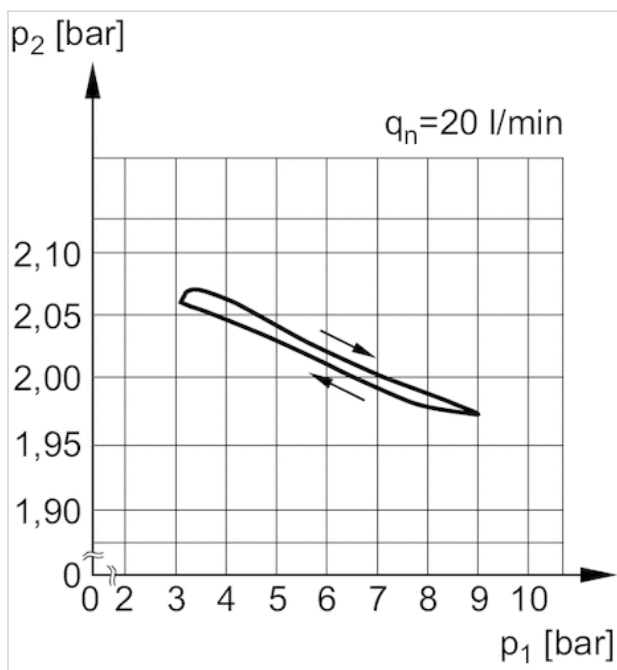
A1 = input
 A2 = output
 A3 = pressure gauge connection
 1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	G	L1	L2	M	V	W
G 1/4	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34	37	50
G 3/8	G 3/8	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34	37	50

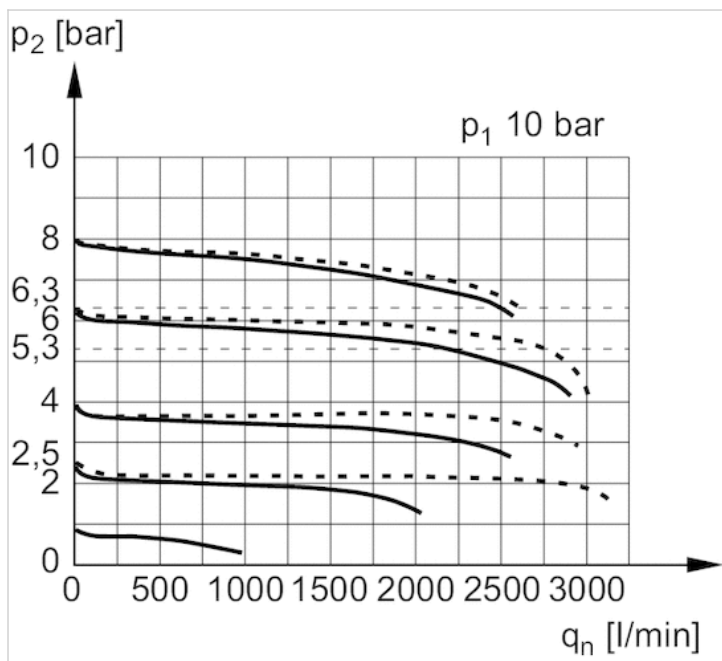
Diagrams

Pressure characteristics curve



p_1 = working pressure
 p_2 = secondary pressure
 q = flow rate

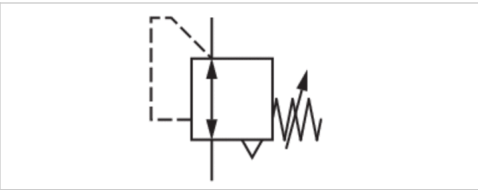
Flow rate characteristic (p_2 : 0,5 - 8 bar)



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

Precision pressure regulator, Series AS2-RGP-...-E11

- G 1/4
- Qn = 2.24 Cv
- Precision pressure regulator
- Activation Mechanical
- lockable
- with E11 locking



Parts	Precision pressure regulator
Mounting orientation	Any
Working pressure min./max.	3 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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.	3 ... 58 psi
Lock type	with E11 locking
Pressure supply	single
Activation	Mechanical
Internal air consumption q,max.	0 Cv
Weight	0.547 lbs

Technical data

Part No.	Port	Flow
		Qn
R412006146	G 1/4	2.24 Cv

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Recommended pre-filter: 5 μm

The E11 locking is delivered without a key (see accessories for keys).

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

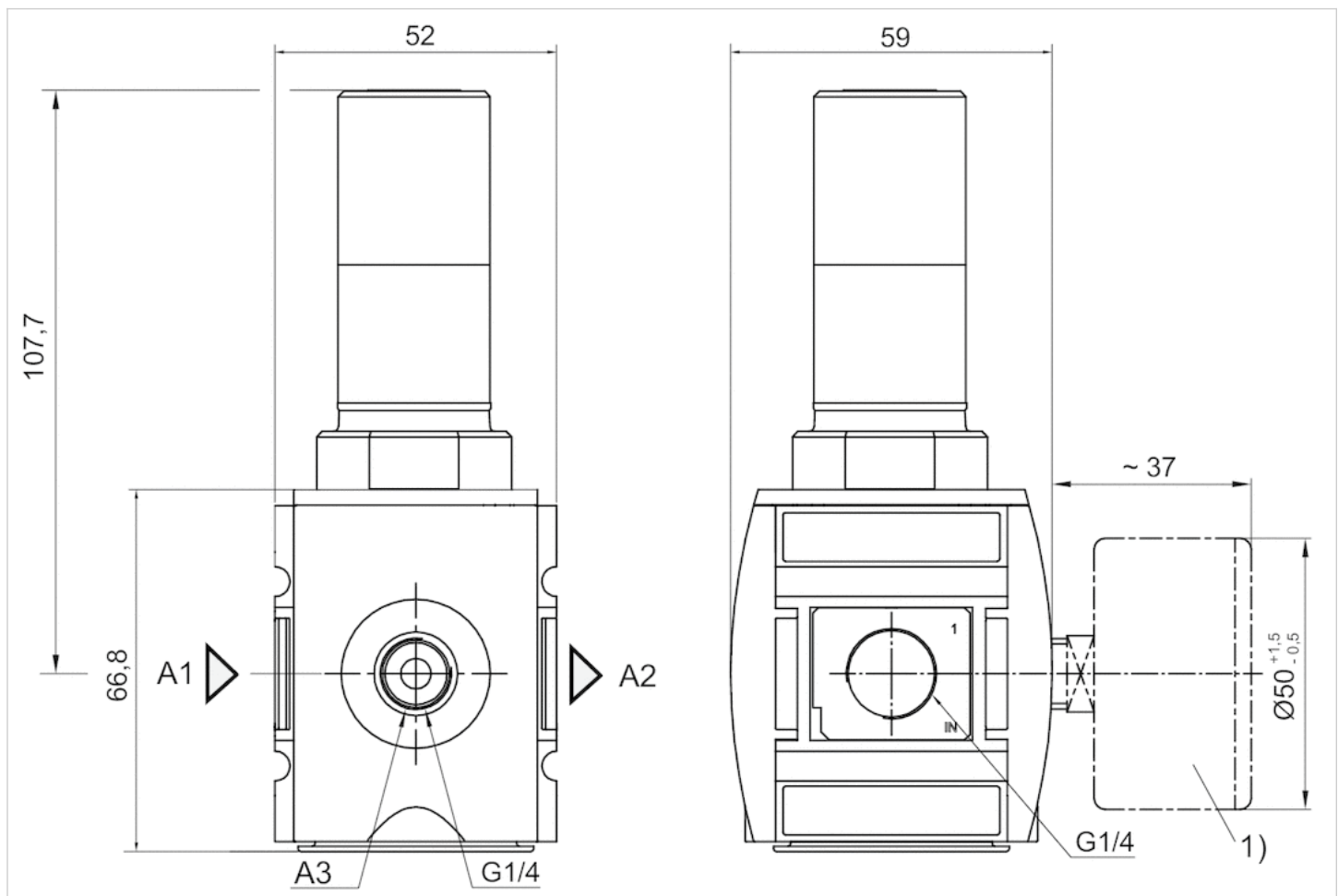
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

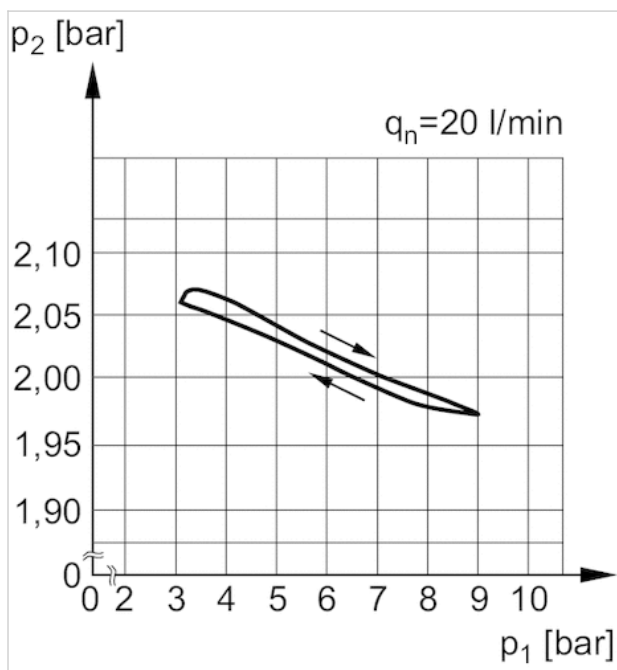
Dimensions



A1 = input
A2 = output
A3 = pressure gauge connection

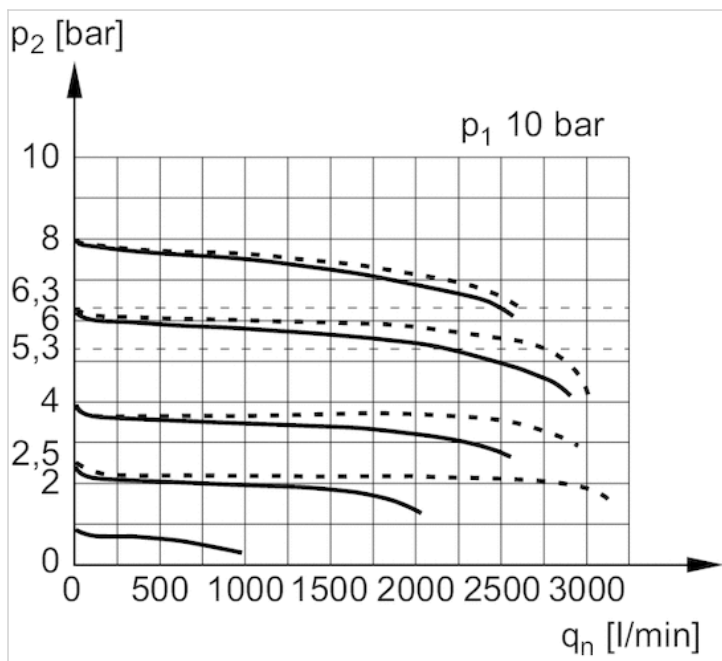
Diagrams

Pressure characteristics curve



p_1 = working pressure
 p_2 = secondary pressure
 q = flow rate

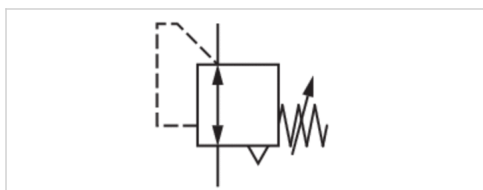
Flow rate characteristic (p_2 : 0,5 - 8 bar)



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

Precision pressure regulator, Series AS2-RGP-...-DS

- G 1/4, G 3/8
- $Q_n = 2.24\text{--}2.74\text{ Cv}$
- Precision pressure regulator
- Activation Mechanical
- with continuous pressure supply
- lockable
- suitable for ATEX



Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Regulator type

Regulator function

Adjustment range min./max.

Pressure supply

Activation

Weight

Precision pressure regulator with continuous pressure supply

Any

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

Diaphragm-type pressure regulator, Can be assembled into blocks

with relieving air exhaust

See table below

double

Mechanical

0.547 lbs

Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Q_n		
R412006160	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 14 psi
R412006161	G 1/4	2.24 Cv	2 ... 232 psi	2 ... 29 psi
R412006162	G 1/4	2.24 Cv	3 ... 232 psi	3 ... 58 psi
R412006163	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 116 psi
R412006164	G 1/4	2.24 Cv	8 ... 232 psi	8 ... 145 psi
R412006166	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 14 psi
R412006167	G 3/8	2.74 Cv	2 ... 232 psi	2 ... 29 psi
R412006168	G 3/8	2.74 Cv	3 ... 232 psi	3 ... 58 psi
R412006169	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 116 psi
R412006170	G 3/8	2.74 Cv	8 ... 232 psi	8 ... 145 psi

Part No.	Max. pressure gauge Ø in blocked state
R412006160	50 mm
R412006161	50 mm
R412006162	50 mm
R412006163	50 mm

Part No.	Max. pressure gauge Ø in blocked state
R412006164	50 mm
R412006166	50 mm
R412006167	50 mm
R412006168	50 mm
R412006169	50 mm
R412006170	50 mm

Nominal flow Q_n with secondary pressure p₂ = 87 psi at Δp = 14.5 psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Recommended pre-filter: 5 µm

The rear pressure gauge connection on the pressure regulator is closed with a blanking plug, the front connection is open. Depending on the customer application, a second blanking plug may be necessary. Please order separately (see accessories).

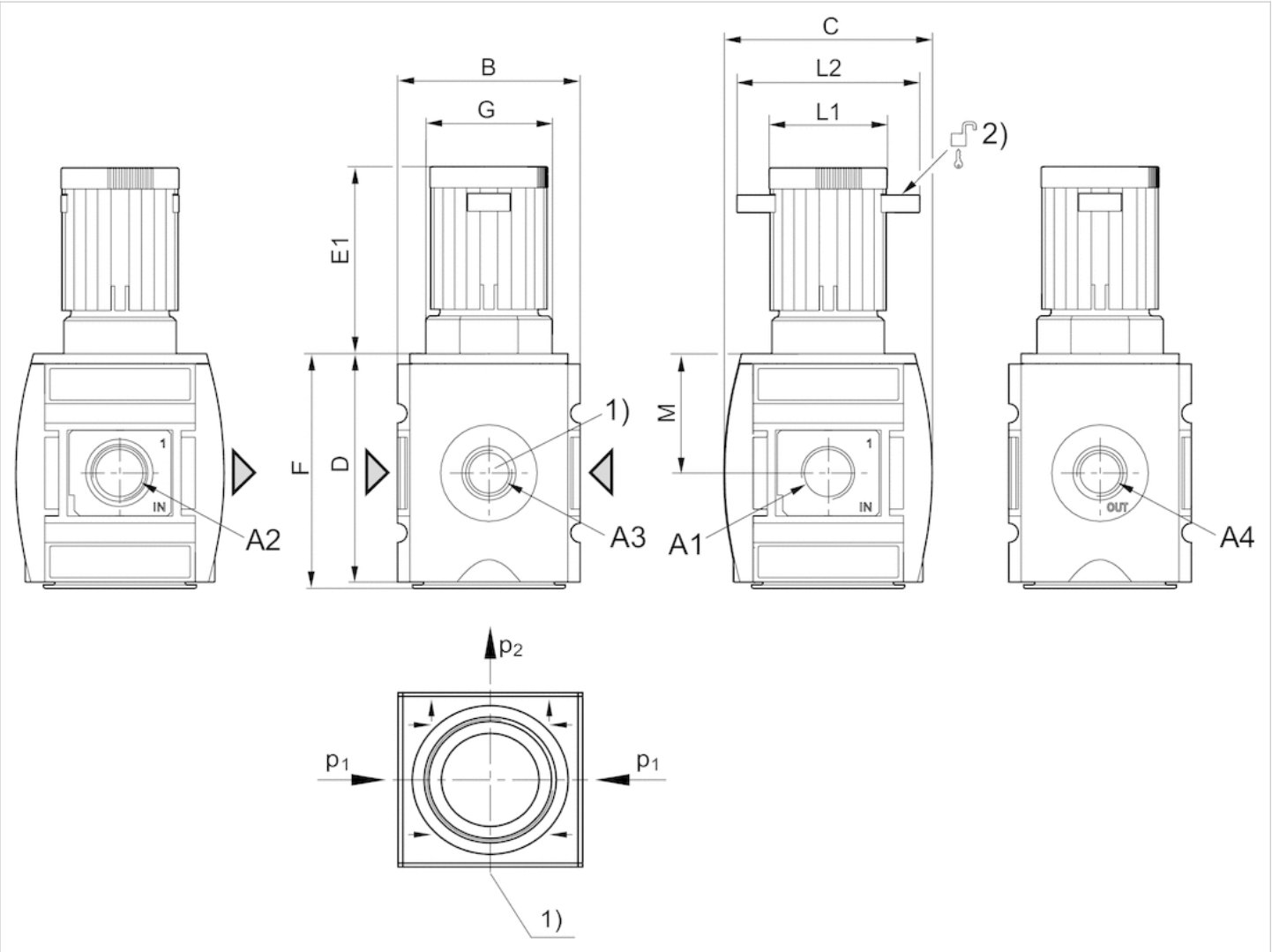
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Dimensions



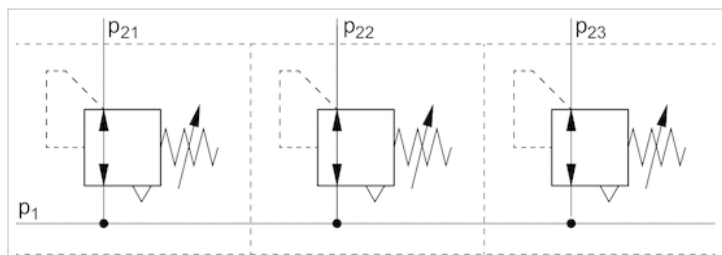
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = output
- 1) Pressure gauge connection
- 2) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A4	B	C	D	E1	F	G	L1	L2	M
G 1/4	G 1/4	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34
G 3/8	G 3/8	G 1/4	G 1/4	52	59	65	57.9	66.8	M36x1,5	34	54	34

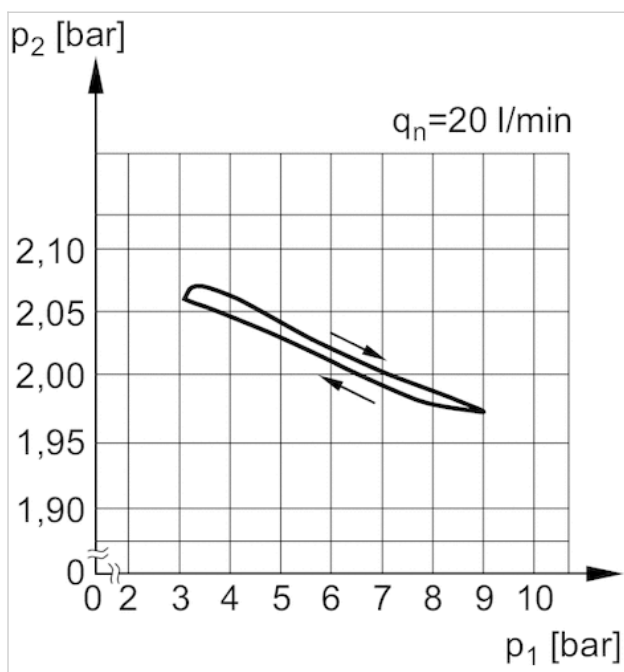
Diagrams

Application example



p_1 = working pressure

Pressure characteristics curve

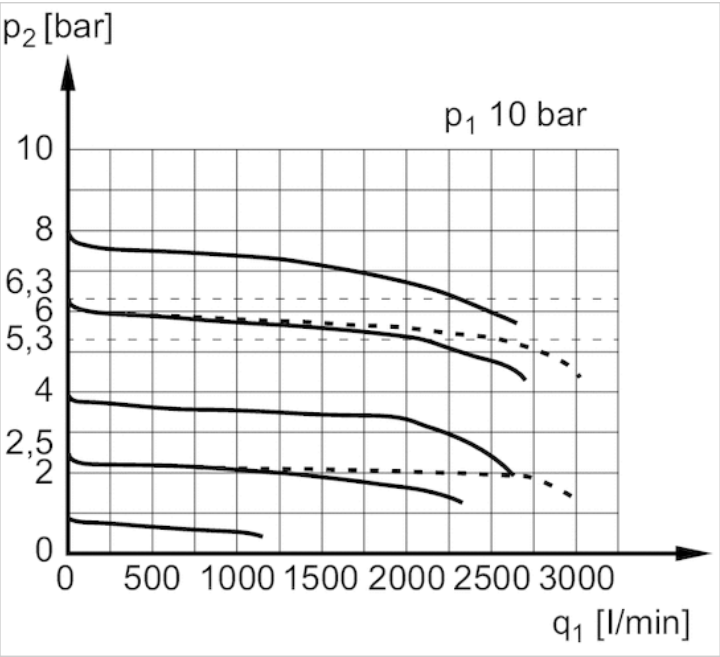


p_1 = Working pressure

p_2 = Secondary pressure

q_n = Nominal flow

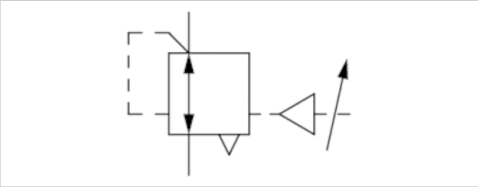
Flow rate characteristic (p2: 05 - 8 bar)



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

Pressure regulator, Series AS2-RGS

- G 1/4, G 3/8
- Qn = 2.74 Cv
- Standard pressure regulator
- Activation Pneumatically



Parts	Pressure regulator
Mounting orientation	Any
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	32 ... 122 °F
Medium temperature min./max.	32 ... 122 °F
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.	8 ... 232 psi
Pressure supply	single
Activation	Pneumatically
Weight	0.692 lbs

Technical data

Part No.	Port	Flow
		Qn
R412006094	G 1/4	2.74 Cv
R412006095	G 3/8	2.74 Cv

Control pressure: see diagram, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Order pressure gauge separately

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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 (≤ 4.35 psi over set pressure)

With rear exhaust (> 43.5 psi)

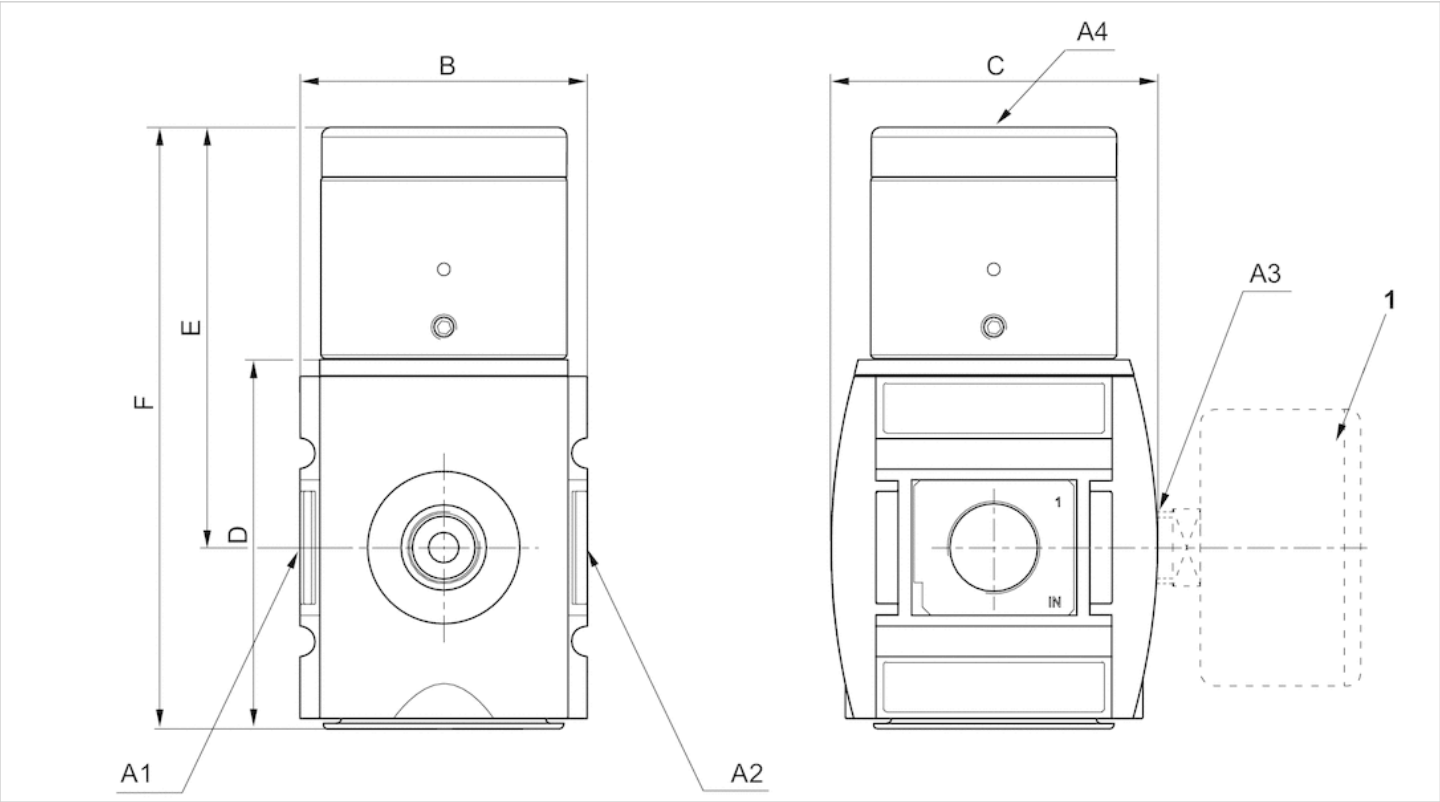
Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc

Dimensions

Dimensions



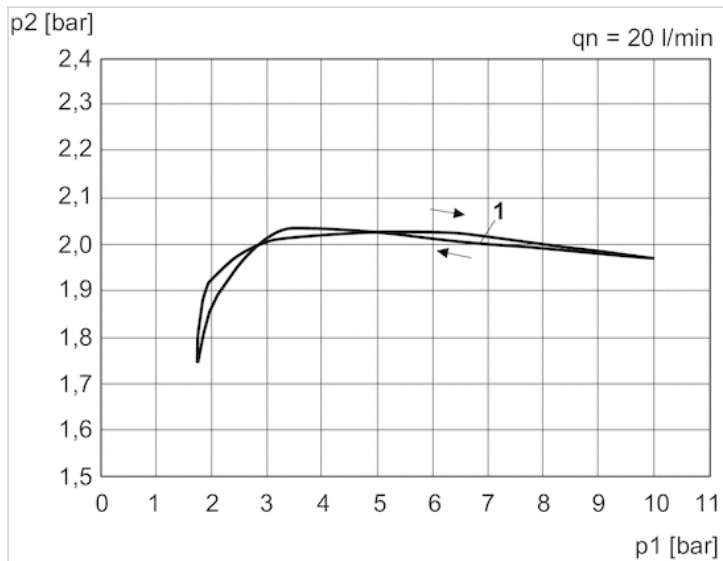
- A1 = input
- A2 = output
- A3 = pressure gauge connection
- A4 = control pressure connection
- 1) Order pressure gauge separately

Dimensions in mm

A1	A2	A3	A4	B	C	D	E	F
G 1/4	G 1/4	G 1/4	G 1/8	52	59	66.8	72	105
G 3/8	G 3/8	G 3/8	G 1/8	52	59	66.8	72	105

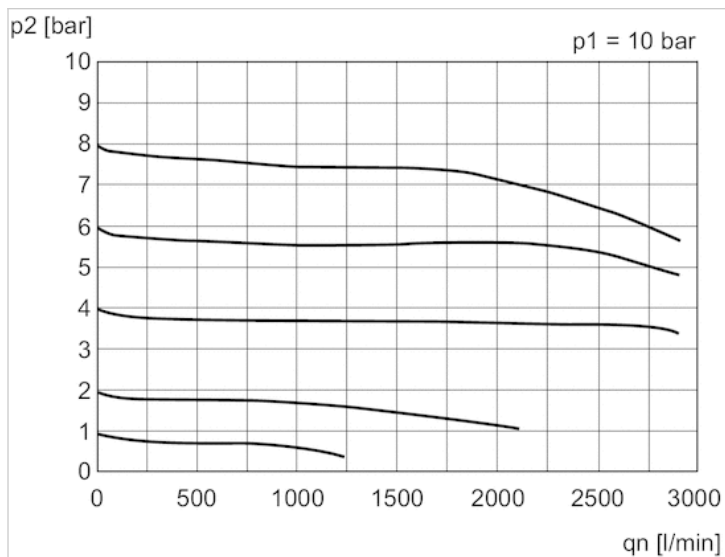
Diagrams

Pressure characteristics curve



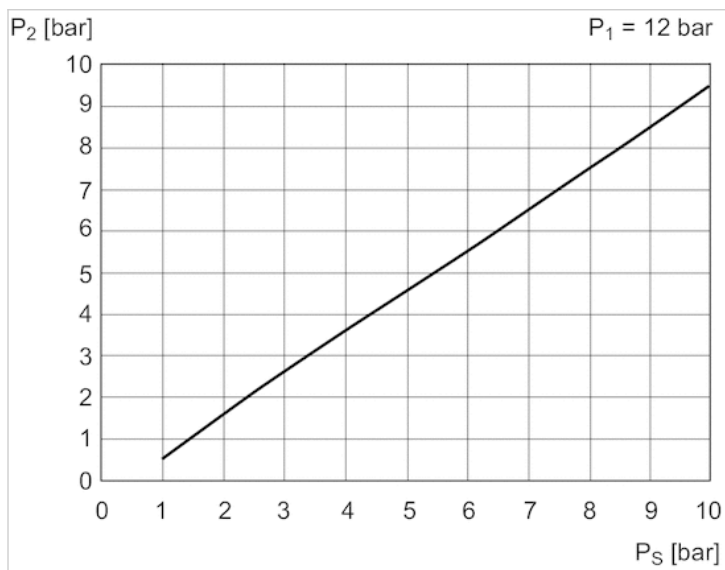
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow
 1) = Starting point

Flow rate characteristic (p_2 : 0.5 - 8 bar)



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

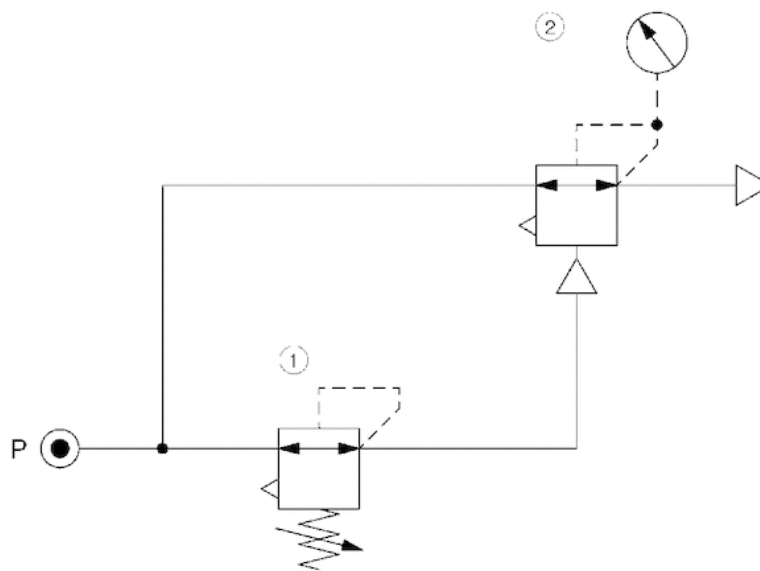
control pressure characteristic



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

Circuit diagram

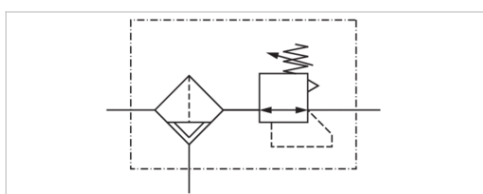
Application example



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

Filter pressure regulator, Series AS2-FRE

- G 1/4, G 3/8
- lockable
- for padlocks
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412006175	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006181	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006193	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 145 psi
R412006236	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 232 psi
R412006176	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006177	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 116 psi
R412006182	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006183	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 116 psi
R412006194	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 145 psi
R412006195	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 145 psi
R412006237	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 232 psi
R412006238	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 232 psi
R412006184	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006190	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006191	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006203	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 145 psi
R412006239	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 232 psi
R412006185	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006186	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 116 psi

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412006192	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 116 psi
R412006204	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 145 psi
R412006205	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 145 psi
R412006240	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 232 psi
R412006241	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 232 psi

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412006175	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.67 lbs
R412006181	semi-automatic, open without pressure	Die cast zinc	-	1.18 lbs
R412006193	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.67 lbs
R412006236	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.67 lbs
R412006176	fully automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006177	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006182	fully automatic, open without pressure	Die cast zinc	-	1.46 lbs
R412006183	fully automatic, closed without pressure	Die cast zinc	-	1.3 lbs
R412006194	fully automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006195	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006237	fully automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006238	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006184	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006190	semi-automatic, open without pressure	Die cast zinc	-	1.15 lbs
R412006191	semi-automatic, open without pressure	Die cast zinc	-	1.44 lbs
R412006203	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.15 lbs
R412006239	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.15 lbs
R412006185	fully automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006186	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006192	fully automatic, closed without pressure	Die cast zinc	-	1.27 lbs
R412006204	fully automatic, open without pressure	Polycarbonate	Polyamide	1.44 lbs
R412006205	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.27 lbs
R412006240	fully automatic, open without pressure	Polycarbonate	Polyamide	1.44 lbs
R412006241	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.27 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

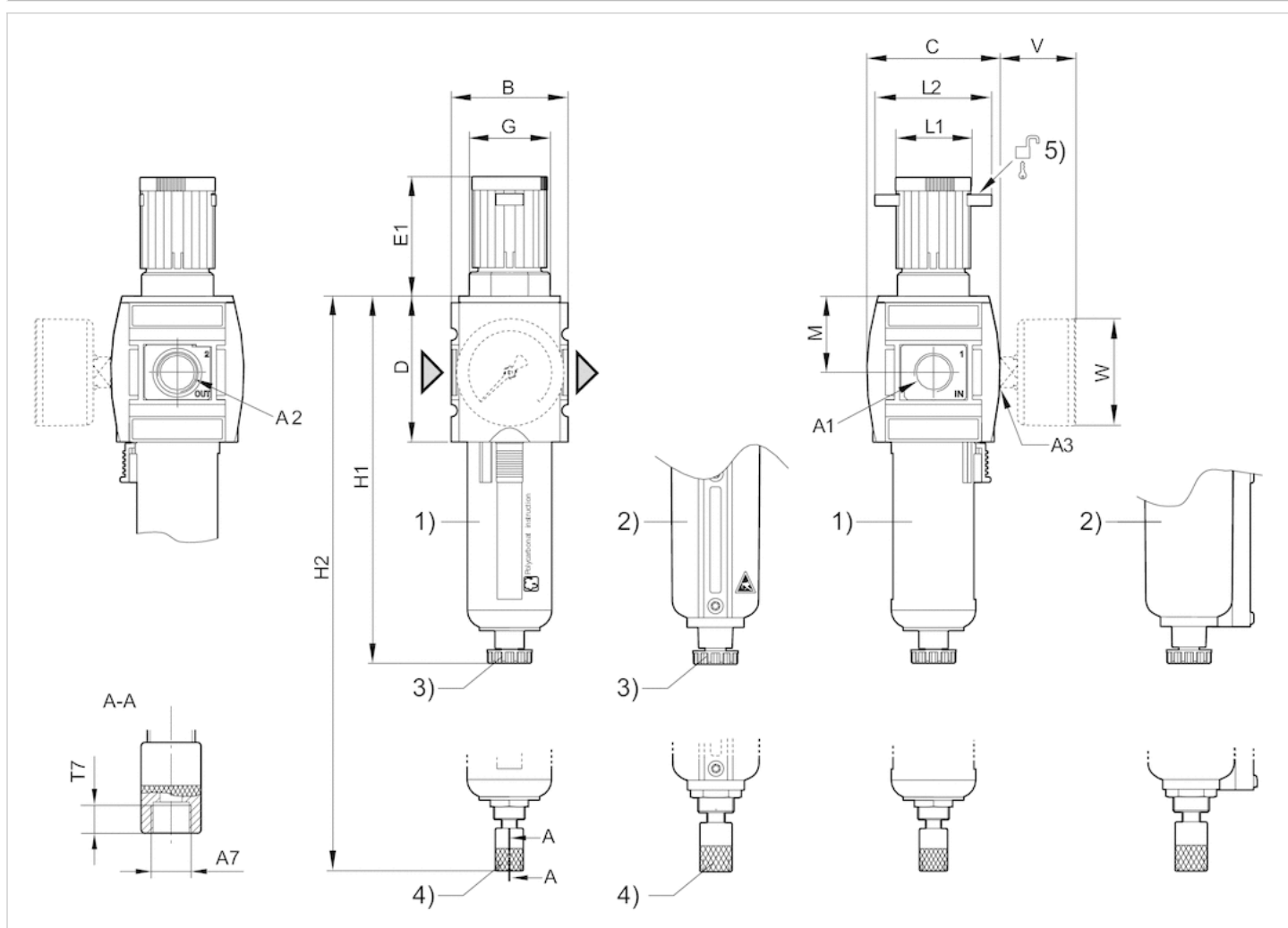
Compressed air class 6 : 7 : -

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

3) Semi-automatic condensate drain

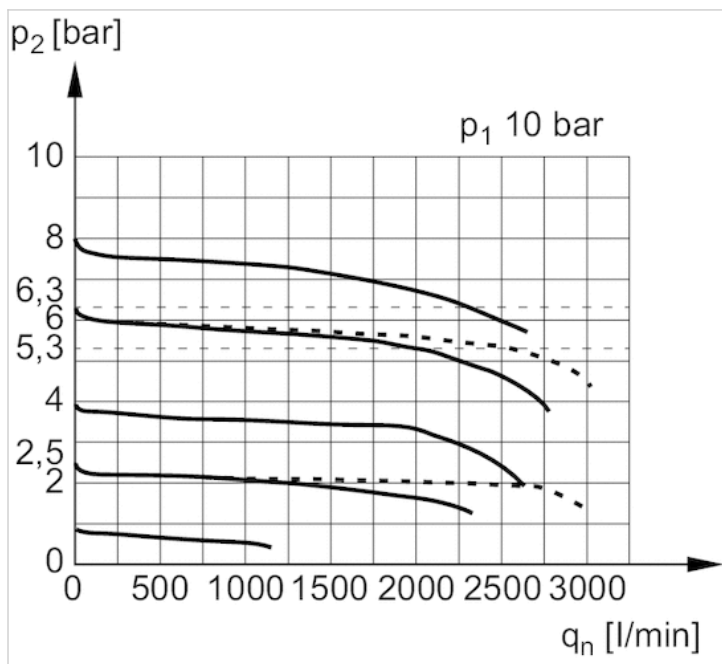
- 4) Fully automatic condensate drain
 5) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2	M	T7	V	W
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	--	34	54	34	8.5	37	50
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	--	180.5	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	--	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	--	180.5	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	--	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	--	180.5	34	54	34	8.5	37	50

Diagrams

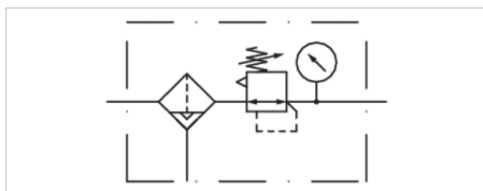
Flow rate characteristic



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

Filter pressure regulator, Series AS2-FRE

- G 1/4, G 3/8
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412006200	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006206	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006196	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 145 psi
R412006201	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006202	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 116 psi
R412006207	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006208	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 116 psi
R412006197	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 145 psi
R412006198	G 1/4	2.13 Cv	0 ... 232 psi	8 ... 145 psi
R412006209	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006215	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006212	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 145 psi
R412006210	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006211	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 116 psi
R412006216	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 116 psi
R412006217	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 116 psi
R412006213	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 145 psi
R412006214	G 3/8	2.64 Cv	0 ... 232 psi	8 ... 145 psi

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412006200	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.869 lbs
R412006206	semi-automatic, open without pressure	Die cast zinc	-	1.34 lbs
R412006196	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.869 lbs
R412006201	fully automatic, open without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006202	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006207	fully automatic, open without pressure	Die cast zinc	-	1.46 lbs
R412006208	fully automatic, closed without pressure	Die cast zinc	-	1.46 lbs
R412006197	fully automatic, open without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006198	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006209	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006215	semi-automatic, open without pressure	Die cast zinc	-	1.31 lbs
R412006212	semi-automatic, open without pressure	Polycarbonate	Polyamide	1.31 lbs
R412006210	fully automatic, open without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006211	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.963 lbs
R412006216	fully automatic, open without pressure	Die cast zinc	-	1.43 lbs
R412006217	fully automatic, closed without pressure	Die cast zinc	-	1.43 lbs
R412006213	fully automatic, open without pressure	Polycarbonate	Polyamide	1.43 lbs
R412006214	fully automatic, closed without pressure	Polycarbonate	Polyamide	1.43 lbs

Pressure gauge enclosed separately, Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

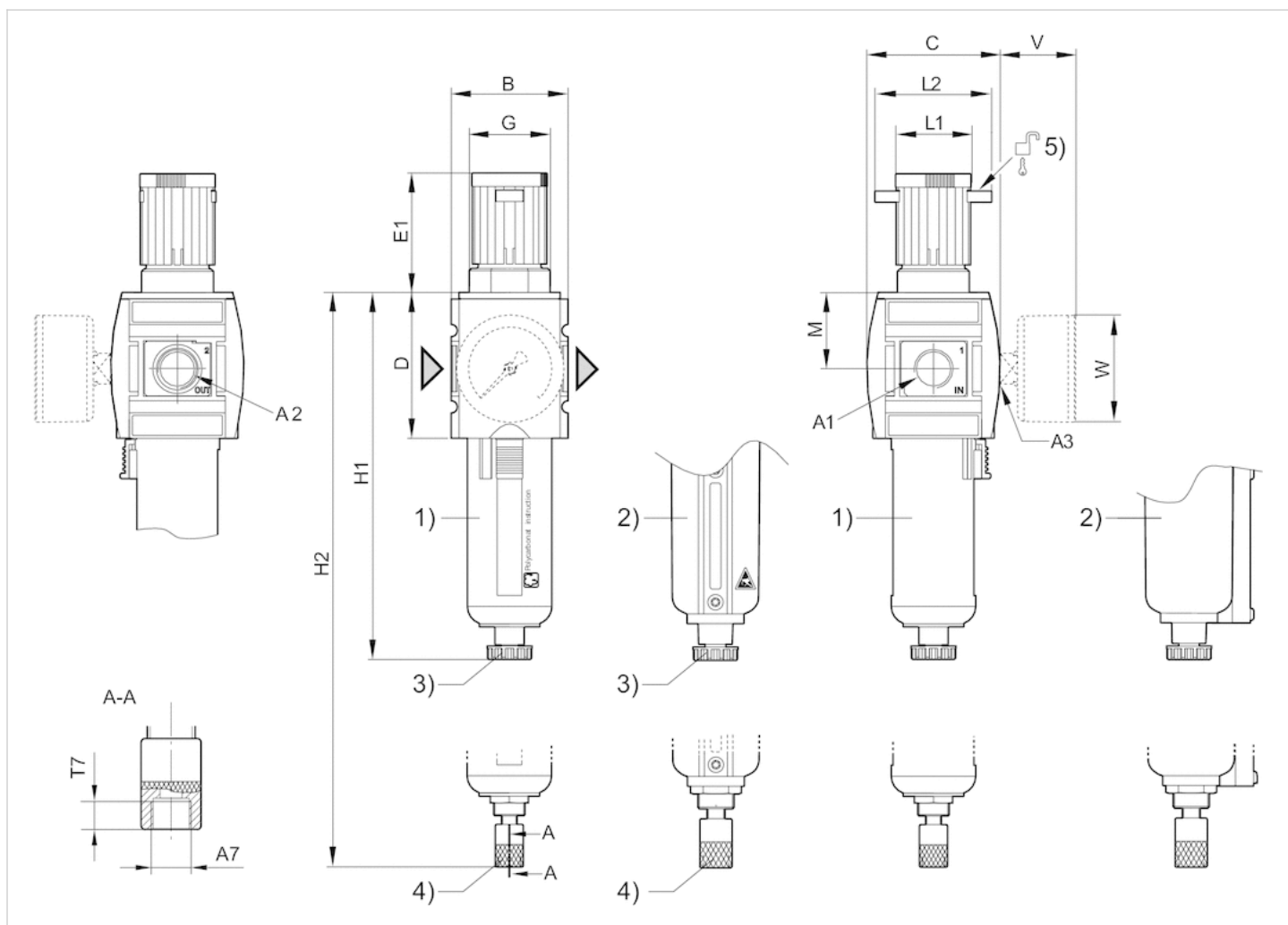
Compressed air class 6 : 7 : -

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

3) Semi-automatic condensate drain

4) Fully automatic condensate drain

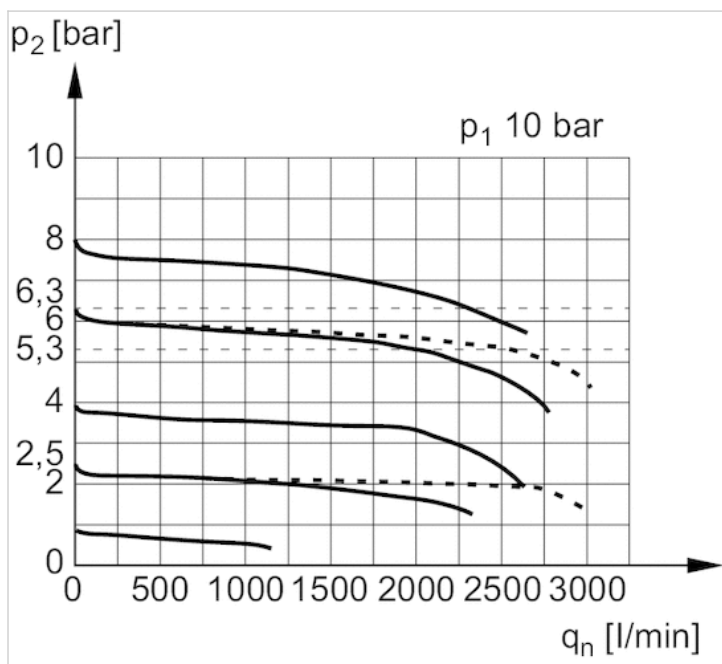
5) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2	M	T7	V	W
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	--	34	54	34	8.5	37	50
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	--	180.5	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	--	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	--	180.5	34	54	34	8.5	37	50

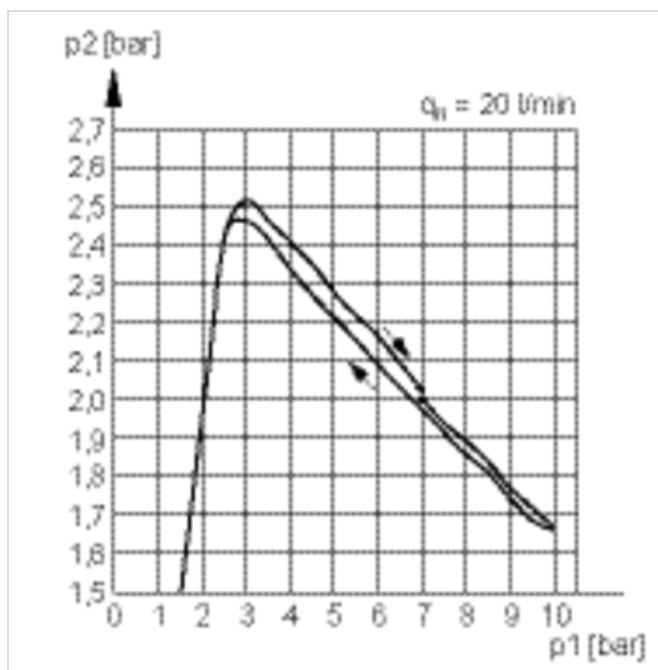
Diagrams

Flow rate characteristic



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

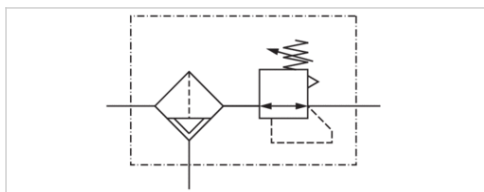
Pressure characteristics curve Version with safe rear exhaust in case of drop (removal) of pilot



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

Filter pressure regulator, Series AS2-FRE-...-E11

- G 1/4
- lockable
- with E11 locking



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	2.13 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 145 psi
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, closed without pressure
Weight	0.765 lbs

Technical data

Part No.	Port	Flow	Condensate drain
		Qn	
R412006189	G 1/4	2.13 Cv	fully automatic, closed without pressure

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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.

Compressed air class 6 : 7 : -

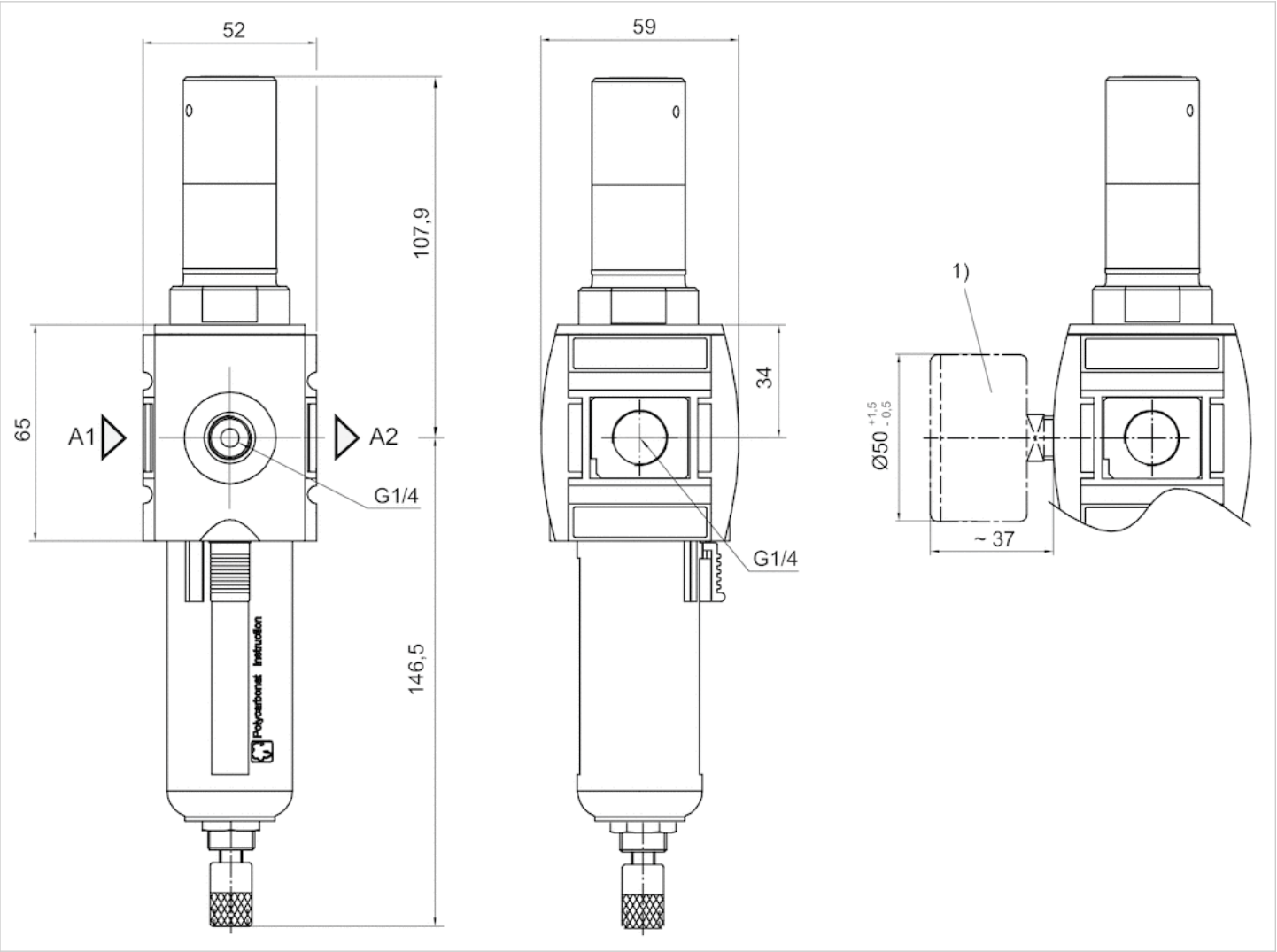
Technical information

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

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

Dimensions

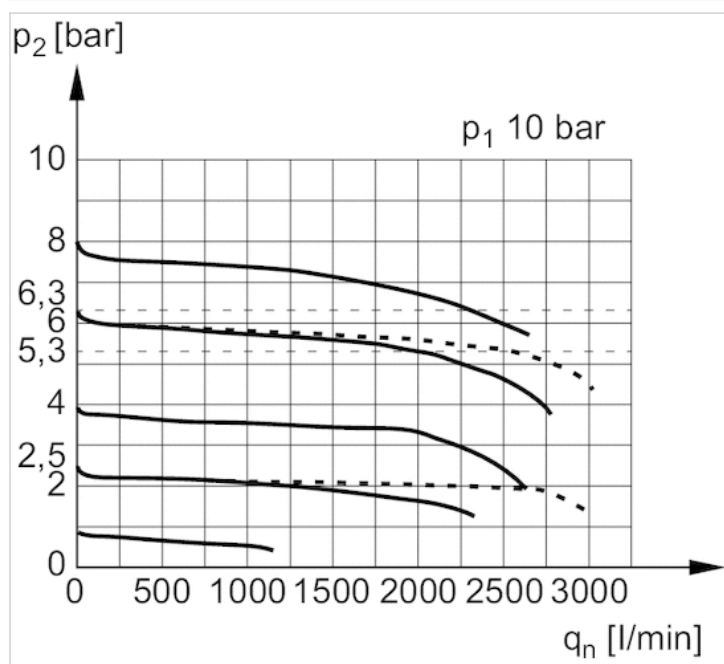
Dimensions



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

Diagrams

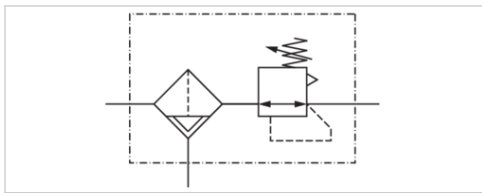
Flow rate characteristic



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

Filter pressure regulator, Series AS2-FRE

- G 1/4, G 3/8
- lockable
- for padlocks
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	See table below
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

Technical data

Part No.	Port	Flow	Working pressure min./max.	Adjustment range min./max.
		Qn		
R412006180	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 116 psi
R412006218	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 145 psi
R412006219	G 1/4	2.13 Cv	22 ... 232 psi	8 ... 145 psi
R412006220	G 1/4	2.13 Cv	0 ... 232 psi	0 ... 145 psi
R412006221	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 145 psi
R412006222	G 3/8	2.64 Cv	22 ... 232 psi	8 ... 145 psi
R412006223	G 3/8	2.64 Cv	0 ... 232 psi	0 ... 145 psi

Part No.	Condensate drain	Reservoir	Protective guard	Weight
R412006180	semi-automatic, open without pressure	Die cast zinc	-	1.18 lbs
R412006218	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.67 lbs
R412006219	fully automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006220	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006221	semi-automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006222	fully automatic, open without pressure	Polycarbonate	Polyamide	0.765 lbs
R412006223	fully automatic, closed without pressure	Polycarbonate	Polyamide	0.765 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

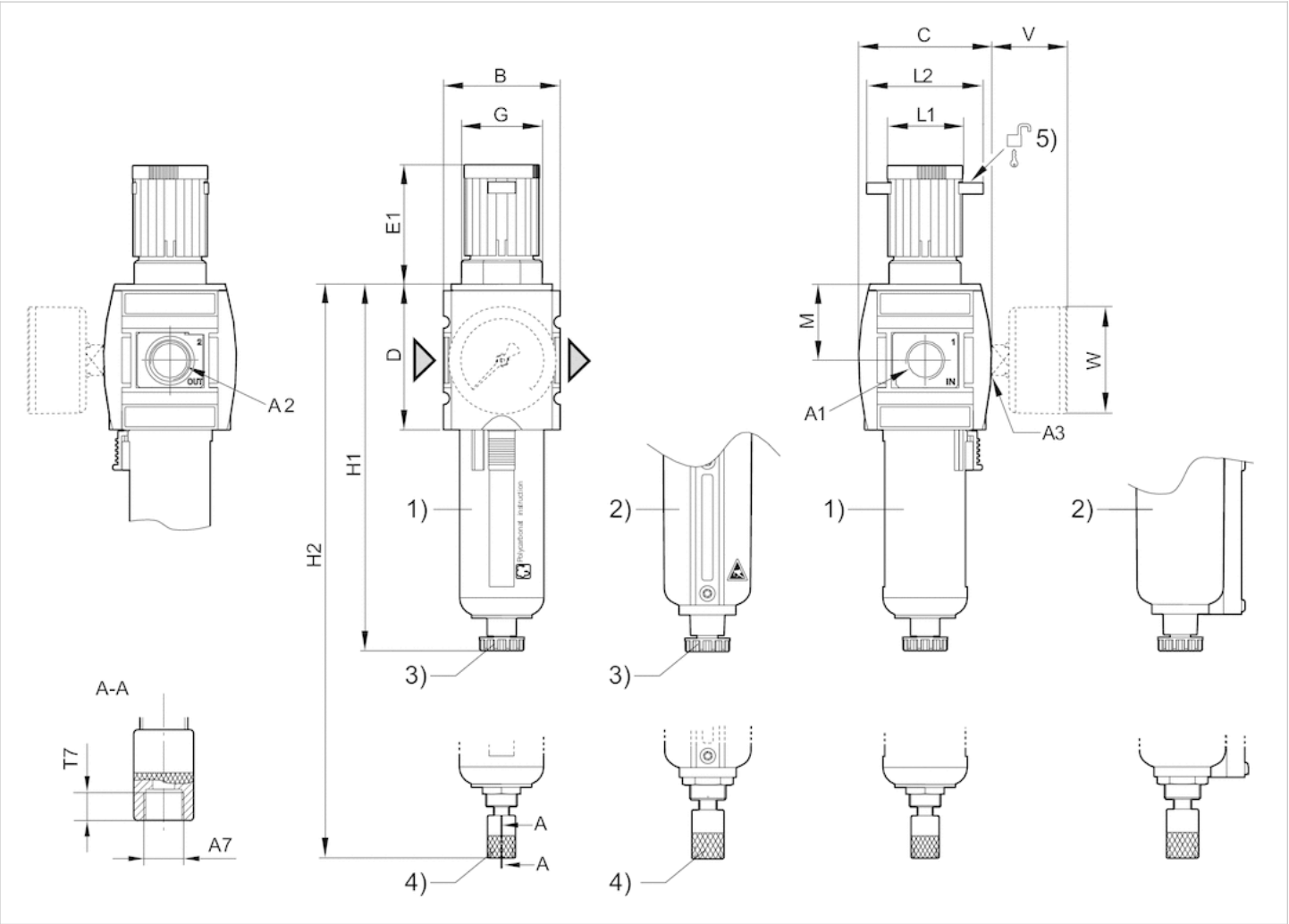
Compressed air class 7 : 7 : -

Technical information

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

Dimensions

Dimensions



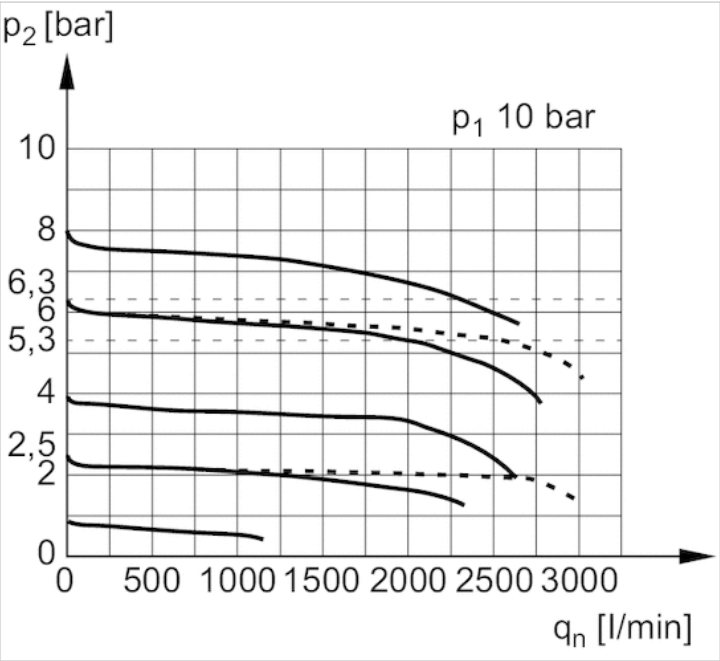
- A1 = input
 A2 = output
 A3 = pressure gauge connection
 A7 = condensate drain
 1) Plastic reservoir and protective guard with window
 2) Metal reservoir
 3) Semi-automatic condensate drain
 4) Fully automatic condensate drain
 5) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2	M	T7	V	W
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	180.5	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	180.5	34	54	34	8.5	37	50

Diagrams

Flow rate characteristic



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

Filter pressure regulator, Series AS2-FRE

- G 1/4, G 3/8
- lockable
- for padlocks
- with pressure gauge
- suitable for ATEX



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	40 µm
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 116 psi
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

Technical data

Part No.			Port	Flow	Working pressure min./max.
				Qn	
R412006199		—	G 1/4	2.13 Cv	0 ... 232 psi
R412006224			G 3/8	2.64 Cv	22 ... 232 psi

Part No.	Condensate drain	Weight	
R412006199	fully automatic, open without pressure	1.46 lbs	1)
R412006224	semi-automatic, open without pressure	0.869 lbs	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

1) Order pressure gauge separately, Suitable for use in Ex zones 1, 2, 21, 22

2) Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

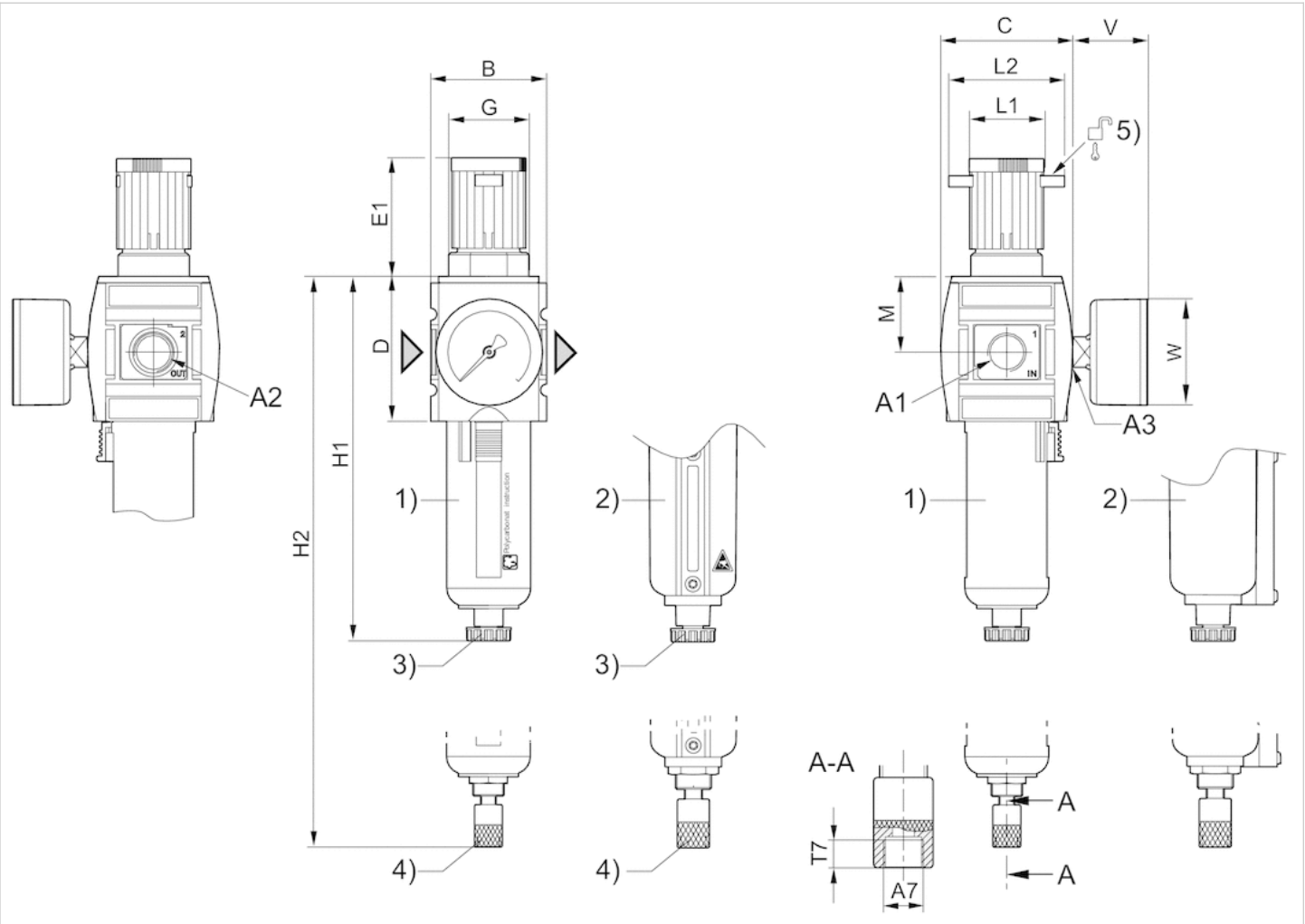
Compressed air class 7 : 7 : -

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
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir

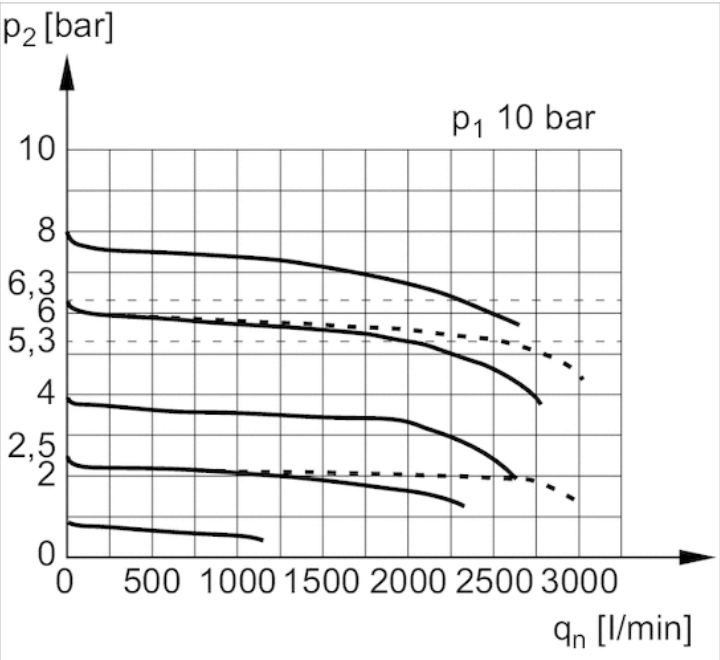
- 3) Semi-automatic condensate drain
4) Fully automatic condensate drain
5) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A1	A2	A3	A7	B	C	D	E1	G	H1	H2	L1	L2	M	T7	V	W
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	180.5	34	54	34	8.5	37	50
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	57.9	M36x1,5	163.5	180.5	34	54	34	8.5	37	50

Diagrams

Flow rate characteristic



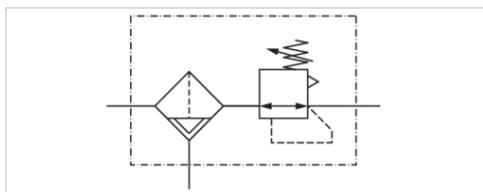
p_1 = Working pressure

p_2 = Secondary pressure

q_n = Nominal flow

Filter pressure regulator, Series AS2-FRE-...-E11

- G 1/4
- lockable
- with E11 locking



Version	1-in-1, Can be assembled into blocks
Parts	Filter pressure regulator
Mounting orientation	vertical
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	2.13 Cv
Regulator type	Diaphragm-type pressure regulator
Regulator function	with relieving air exhaust
Adjustment range min./max.	8 ... 145 psi
Pressure supply	single
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, closed without pressure
Weight	0.765 lbs

Technical data

Part No.	Port	Flow	Condensate drain
		Qn	
R412006188	G 1/4	2.13 Cv	fully automatic, closed without pressure

Order pressure gauge separately, Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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.

Compressed air class 7 : 7 : -

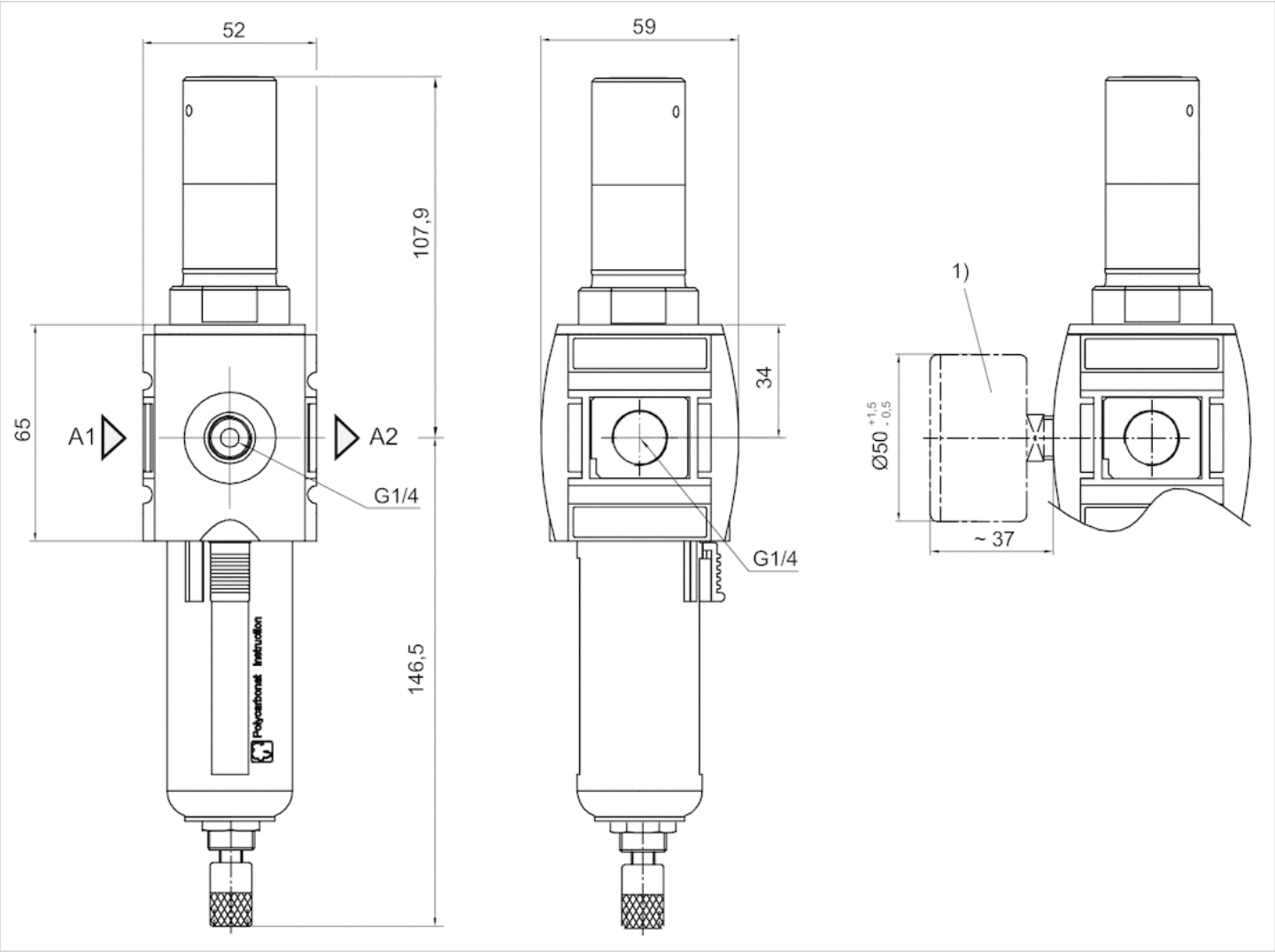
Technical information

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

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

Dimensions

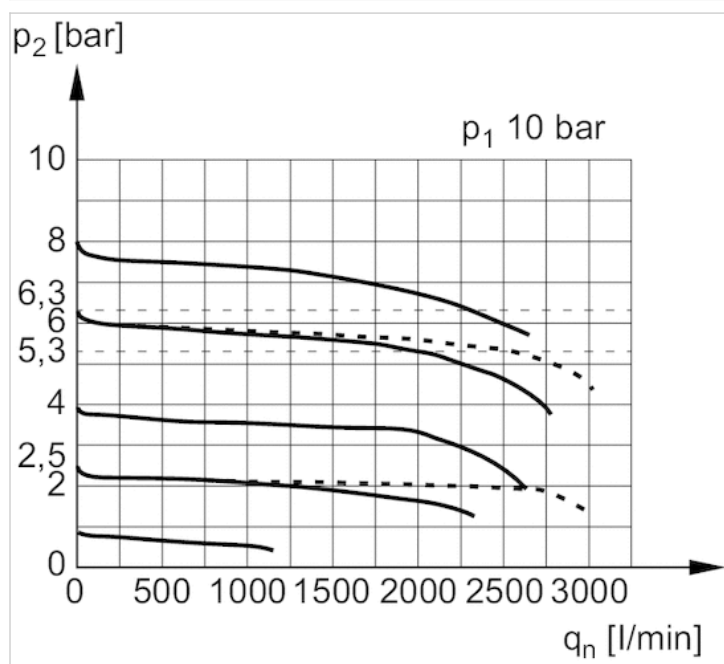
Dimensions



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

Diagrams

Flow rate characteristic

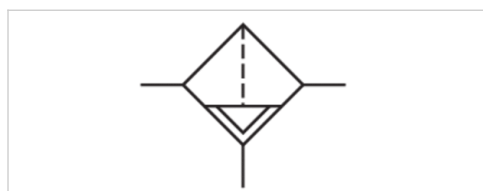


p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Filter, Series AS2-FLS

- G 1/4, G 3/8

- suitable for ATEX



Version

Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Filter reservoir volume

Filter element

Condensate drain

Weight

Standard filter, Can be assembled into blocks

Filter

vertical

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

0.95 fl.oz.

exchangeable

See table below

See table below

Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412006000	G 1/4	2.13 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006006	G 1/4	2.13 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006001	G 1/4	2.13 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006002	G 1/4	2.13 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006007	G 1/4	2.13 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006008	G 1/4	2.13 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006090	G 1/4	2.13 Cv	0 ... 232 psi	without
R412006009	G 3/8	2.13 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006015	G 3/8	2.13 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006010	G 3/8	2.13 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006011	G 3/8	2.13 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006016	G 3/8	2.13 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006017	G 3/8	2.13 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412006000	Polycarbonate	Polyamide	0.467 lbs
R412006006	Die cast zinc, with window	-	0.977 lbs
R412006001	Polycarbonate	Polyamide	0.562 lbs
R412006002	Polycarbonate	Polyamide	0.562 lbs
R412006007	Die cast zinc, with window	-	1.15 lbs
R412006008	Die cast zinc, with window	-	1.17 lbs
R412006090	Polycarbonate	Polyamide	0.467 lbs

Part No.	Reservoir	Protective guard	Weight
R412006009	Polycarbonate	Polyamide	0.467 lbs
R412006015	Die cast zinc, with window	-	0.948 lbs
R412006010	Polycarbonate	Polyamide	0.562 lbs
R412006011	Polycarbonate	Polyamide	0.562 lbs
R412006016	Die cast zinc, with window	-	1.15 lbs
R412006017	Die cast zinc, with window	-	1.12 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

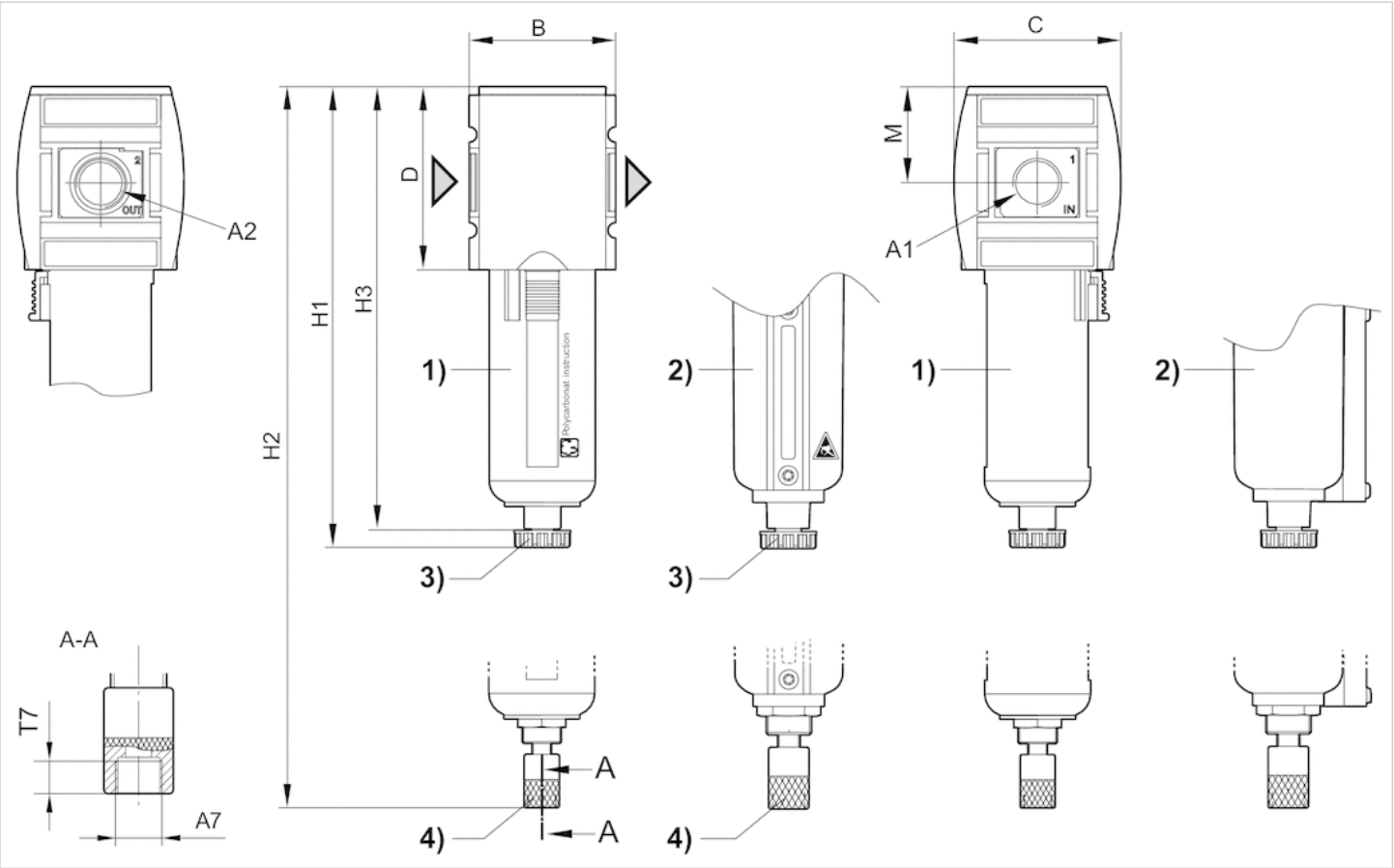
Max. achievable compressed air class acc. to ISO 8573-1:2010 6 : 7 : -

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



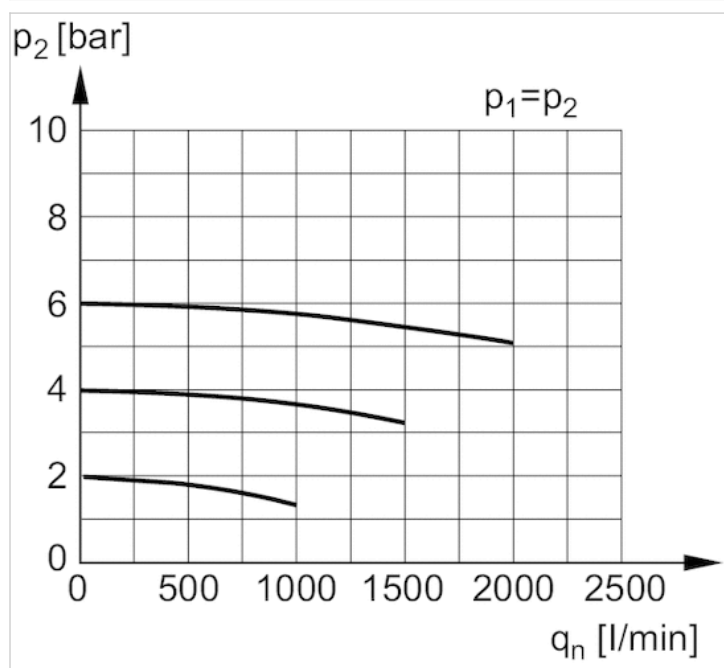
- A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with level indicator
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

A1	A2	A7	B	C	D	H1	H2	H3	M	T7
G 1/4	G 1/4	G 1/8	52	59	65	163.5	-	-	34	8.5
G 1/4	G 1/4	G 1/8	52	59	65	-	180.5	-	34	8.5
G 1/4	G 1/4	G 1/8	52	59	65	-	-	157	34	8.5
G 3/8	G 3/8	G 1/8	52	59	65	163.5	-	-	34	8.5
G 3/8	G 3/8	G 1/8	52	59	65	-	180.5	-	34	8.5

Diagrams

Flow rate characteristic



p1 = Working pressure

p2 = Secondary pressure

qn = Nominal flow

Filter, Series AS2-FLS

- G 1/4
- suitable for ATEX



Version	Standard filter, Can be assembled into blocks
Parts	Filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	0.95 fl.oz.
Filter element	exchangeable
Condensate drain	semi-automatic, open without pressure
Weight	0.977 lbs

Technical data

Part No.	Port	Qn
R412006091	G 1/4	2.13 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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 : -

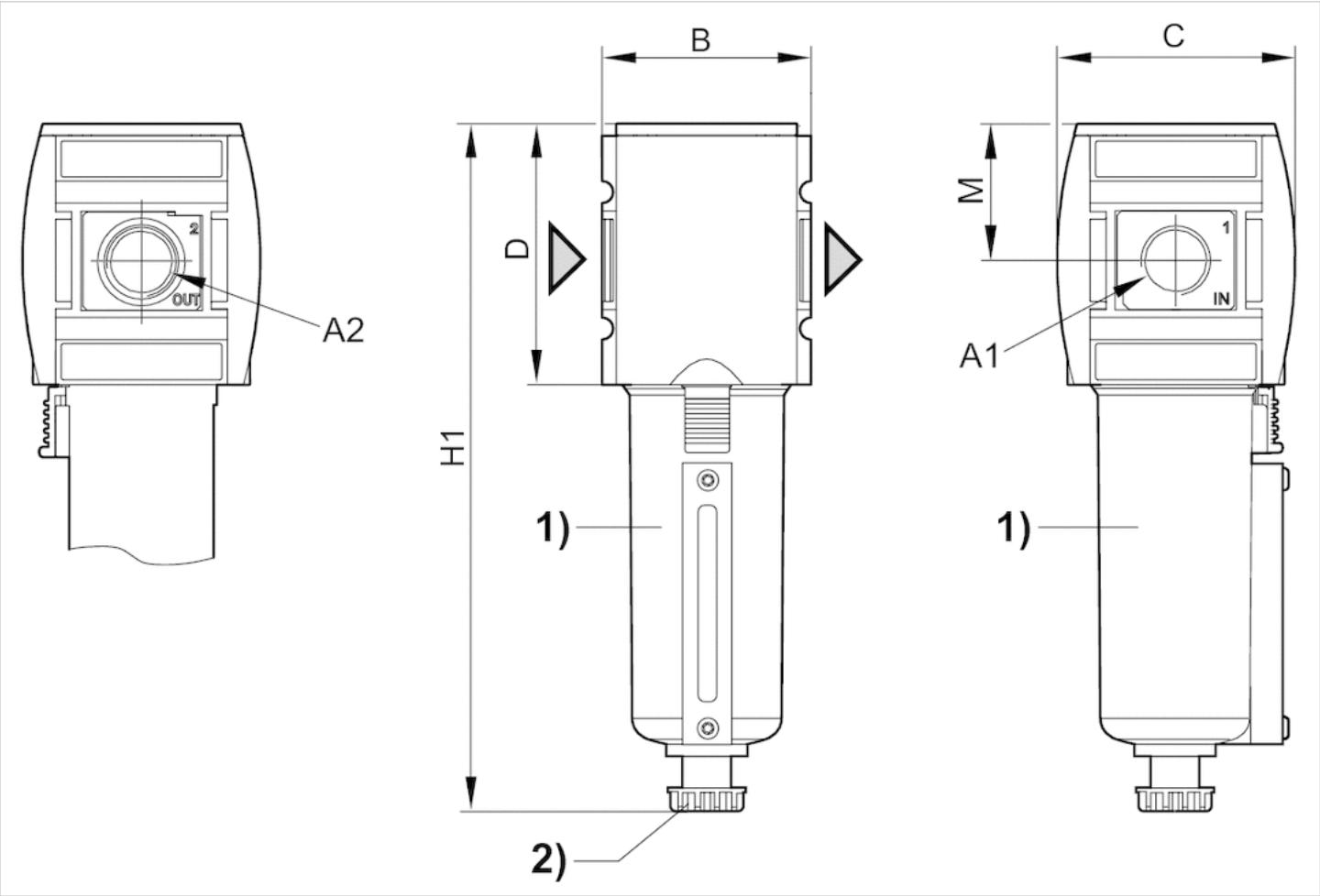
Technical information

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

Material	
Reservoir	Die cast zinc
Filter insert	Polyethylene

Dimensions

Dimensions



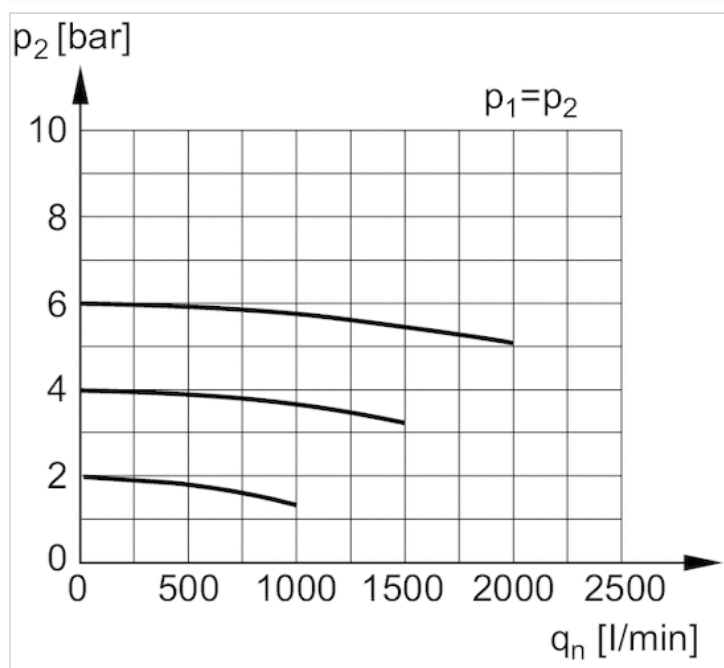
- A1 = input
A2 = output
1) Metal reservoir with level indicator
2) Semi-automatic condensate drain

Dimensions in mm

A1	A2	B	C	D	H1	M
G 1/4	G 1/4	52	59	65	163.5	34

Diagrams

Flow rate characteristic



p1 = Working pressure

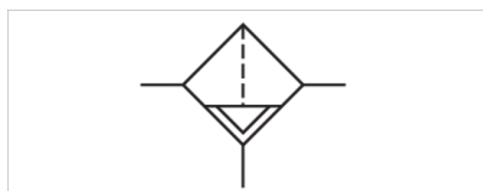
p2 = Secondary pressure

qn = Nominal flow

Filter, Series AS2-FLS

- G 1/4, G 3/8

- suitable for ATEX



Version

Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Filter reservoir volume

Filter element

Condensate drain

Weight

Standard filter, Can be assembled into blocks

Filter

vertical

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

0.95 fl.oz.

exchangeable

See table below

See table below

Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412006003	G 1/4	2.13 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006004	G 1/4	2.13 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006005	G 1/4	2.13 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006012	G 3/8	2.13 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006013	G 3/8	2.13 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006014	G 3/8	2.13 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Weight
R412006003	0.467 lbs
R412006004	0.562 lbs
R412006005	0.562 lbs
R412006012	0.467 lbs
R412006013	0.562 lbs
R412006014	0.562 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

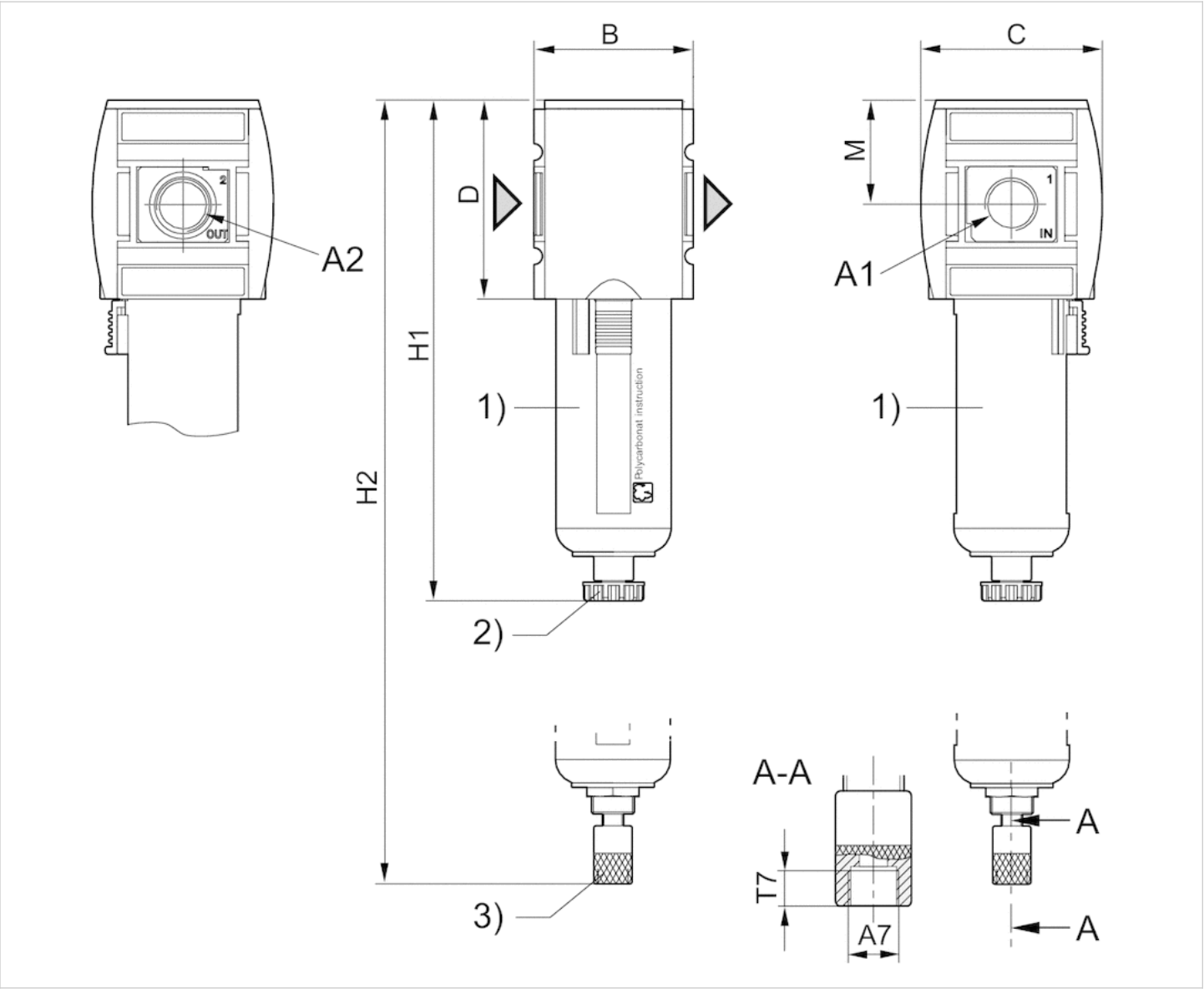
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

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



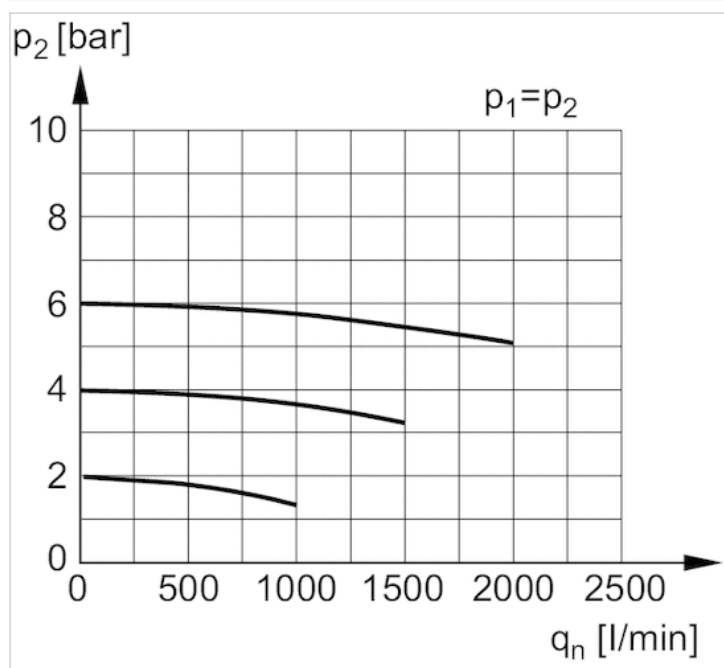
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Semi-automatic condensate drain
- 3) Fully automatic condensate drain

Dimensions in mm

A1	A2	A7	B	C	D	H1	H2	M	T7
G 1/4	G 1/4	G 1/8	52	59	65	163,5	180,5	34	8,5
G 3/8	G 3/8	G 1/8	52	59	65	163,5	180,5	34	8,5

Diagrams

Flow rate characteristic



p1 = Working pressure

p2 = Secondary pressure

qn = Nominal flow

Pre-filter, Series AS2-FLP

- G 1/4, G 3/8

- suitable for ATEX



Version

Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Filter reservoir volume

Filter element

Condensate drain

Weight

Pre-filter, Can be assembled into blocks

Pre-filter

vertical

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

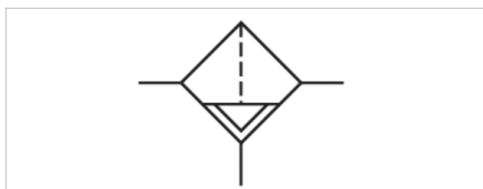
Compressed air, Neutral gases

0.41 fl.oz.

exchangeable

See table below

See table below



Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412006018	G 1/4	0.406 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006019	G 1/4	0.406 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006020	G 1/4	0.406 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006024	G 1/4	0.406 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006025	G 1/4	0.406 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006026	G 1/4	0.406 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006027	G 3/8	0.406 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006028	G 3/8	0.406 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006029	G 3/8	0.406 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006033	G 3/8	0.406 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006034	G 3/8	0.406 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006035	G 3/8	0.406 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412006018	Polycarbonate	Polyamide	0.485 lbs
R412006019	Polycarbonate	Polyamide	0.58 lbs
R412006020	Polycarbonate	Polyamide	0.58 lbs
R412006024	Die cast zinc, with window	-	1.07 lbs
R412006025	Die cast zinc, with window	-	1.17 lbs
R412006026	Die cast zinc, with window	-	1.17 lbs
R412006027	Polycarbonate	Polyamide	0.58 lbs
R412006028	Polycarbonate	Polyamide	0.58 lbs

Part No.	Reservoir	Protective guard	Weight
R412006029	Polycarbonate	Polyamide	0.58 lbs
R412006033	Die cast zinc, with window	-	1.04 lbs
R412006034	Die cast zinc, with window	-	1.16 lbs
R412006035	Die cast zinc, with window	-	1.16 lbs

Nominal flow Q_n with secondary pressure $p_2 = 87$ psi at $\Delta p = 1.45$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

Recommended pre-filtering 5 µm

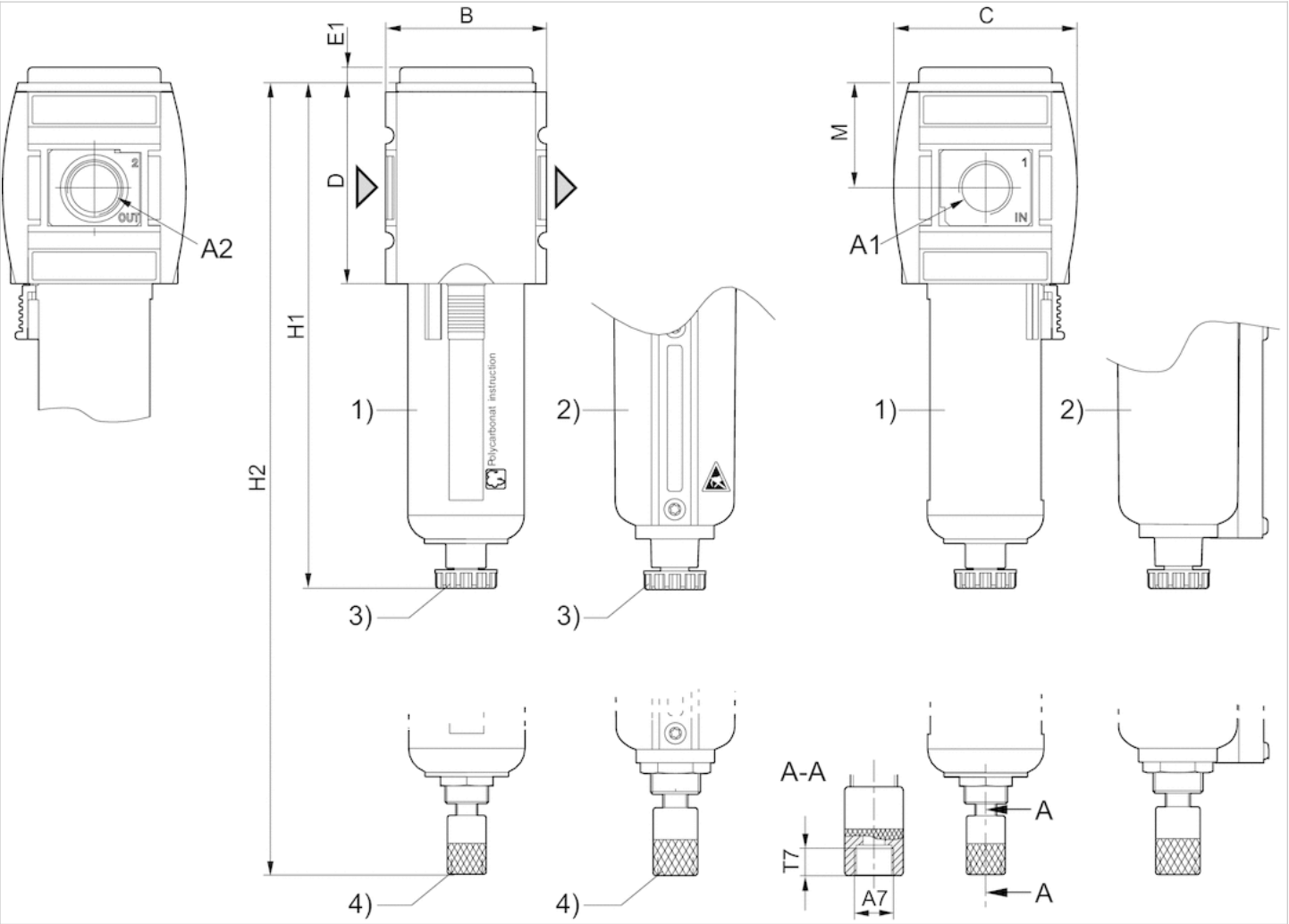
Max. achievable compressed air class acc. to ISO 8573-1:2010 2 : - : 3

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



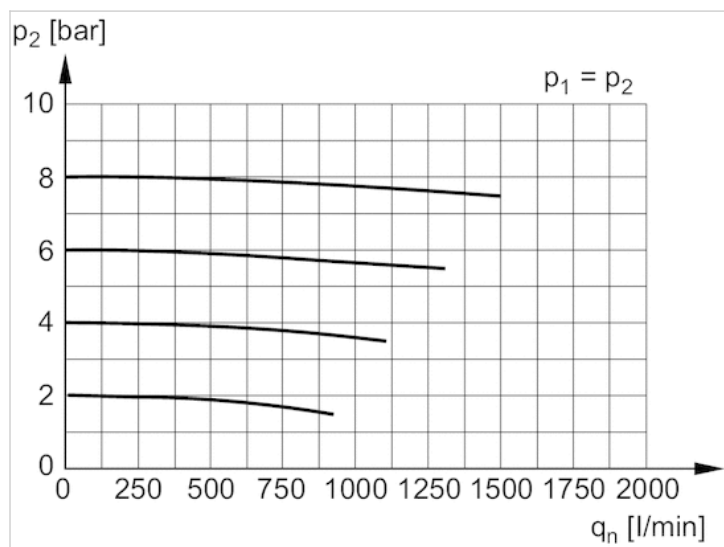
- A1 = input
- A2 = output
- A7 = condensate drain
- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass
- 3) Semi-automatic condensate drain
- 4) Fully automatic condensate drain

Dimensions in mm

A1	A2	A7	B	C	D	E1	H1	H2	M	T7
G 1/4	G 1/4	G 1/8	52	59	65	5	163.5	180.5	34	8.5
G 3/8	G 3/8	G 1/8	52	59	65	5	163.5	180.5	34	8.5

Diagrams

Flow rate characteristic



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

Microfilter, Series AS2-FLC

- G 1/4, G 3/8

- suitable for ATEX



Version

Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Filter reservoir volume

Filter element

Condensate drain

Weight

Microfilter, Can be assembled into blocks

Microfilter

vertical

suitable for ATEX

See table below

14 ... 122 °F

14 ... 122 °F

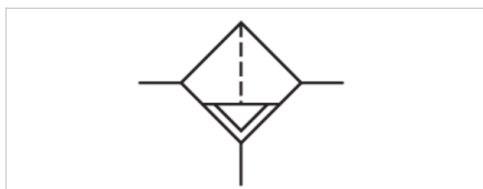
Compressed air, Neutral gases

0.41 fl.oz.

exchangeable

See table below

See table below



Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412006036	G 1/4	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006037	G 1/4	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006038	G 1/4	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006042	G 1/4	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006043	G 1/4	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006044	G 1/4	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006045	G 3/8	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006046	G 3/8	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006047	G 3/8	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006051	G 3/8	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006052	G 3/8	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006053	G 3/8	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412006036	Polycarbonate	Polyamide	0.485 lbs
R412006037	Polycarbonate	Polyamide	0.58 lbs
R412006038	Polycarbonate	Polyamide	0.58 lbs
R412006042	Die cast zinc, with window	-	1.06 lbs
R412006043	Die cast zinc, with window	-	1.25 lbs
R412006044	Die cast zinc, with window	-	1.23 lbs
R412006045	Polycarbonate	Polyamide	0.485 lbs
R412006046	Polycarbonate	Polyamide	0.58 lbs

Part No.	Reservoir	Protective guard	Weight
R412006047	Polycarbonate	Polyamide	0.58 lbs
R412006051	Die cast zinc, with window	-	1.04 lbs
R412006052	Die cast zinc, with window	-	1.2 lbs
R412006053	Die cast zinc, with window	-	1.21 lbs

Nominal flow Q_n with secondary pressure $p_2 = 87$ psi at $\Delta p = 1.45$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

Recommended pre-filtering 0.3 µm

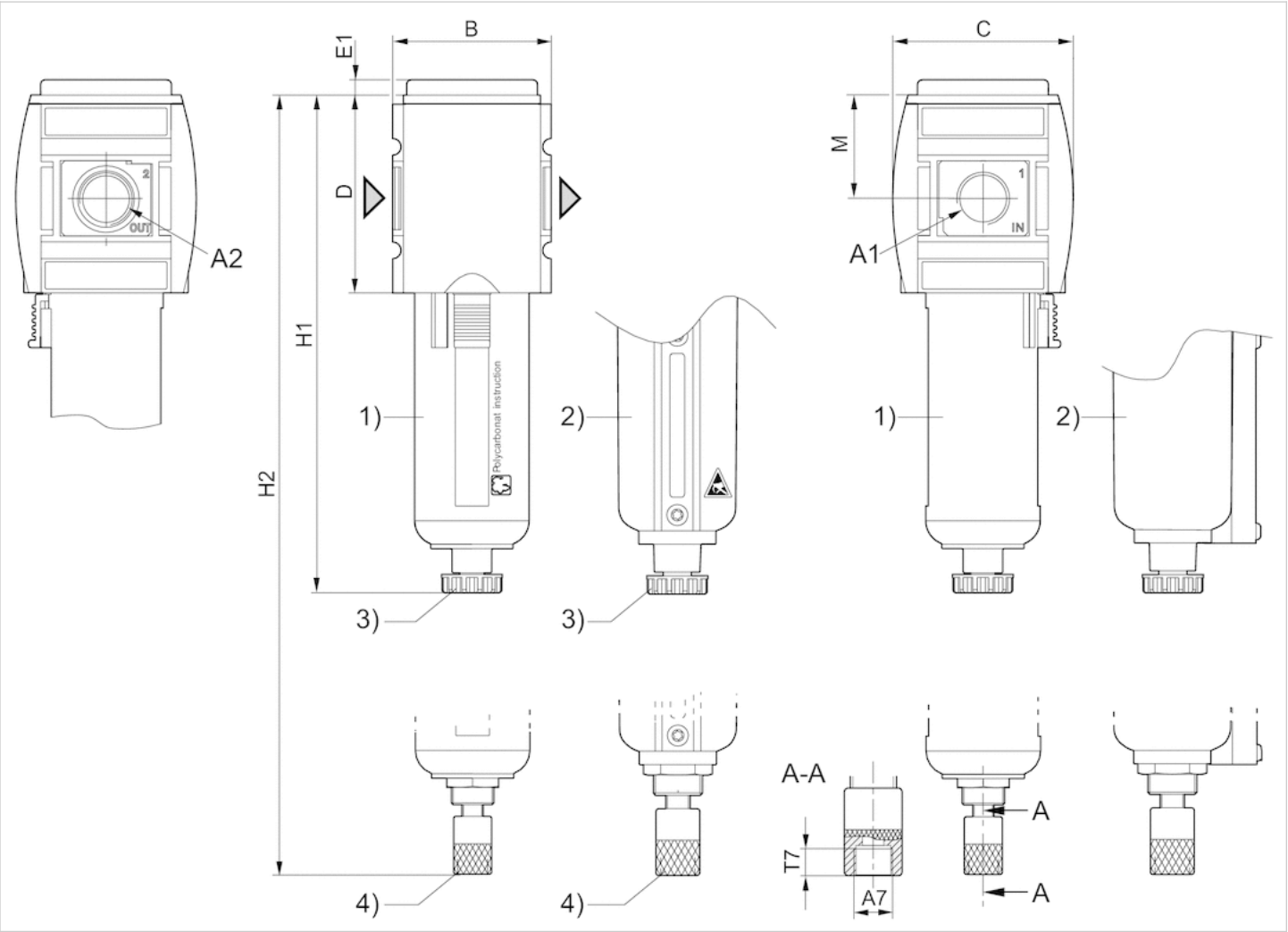
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

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



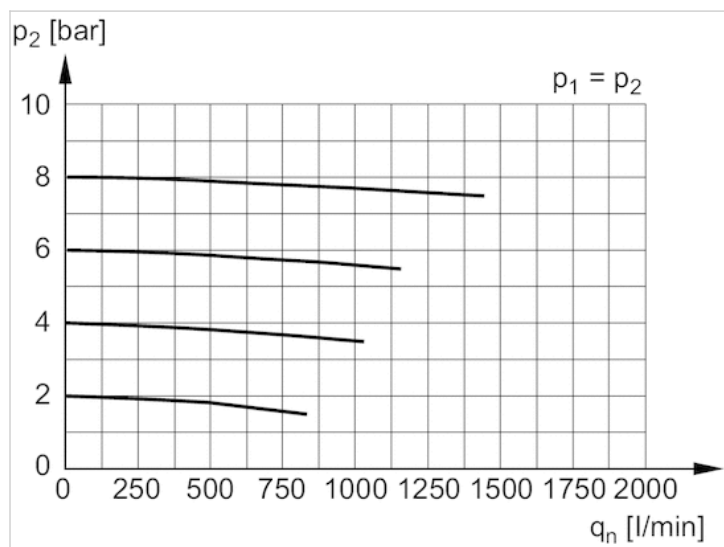
- A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

A1	A2	A7	B	C	D	E1	H1	H2	M	T7
G 1/4	G 1/4	G 1/8	52	59	65	5	163.5	180.5	34	8.5
G 3/8	G 3/8	G 1/8	52	59	65	5	163.5	180.5	34	8.5

Diagrams

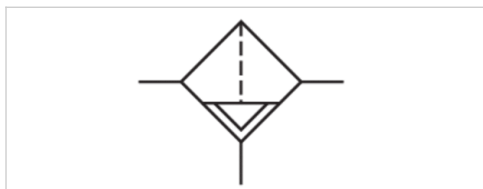
Flow rate characteristic



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

Microfilter, Series AS2-FLC

- G 1/4, G 3/8
- contamination display integrated
- suitable for ATEX



Version	Microfilter, Can be assembled into blocks
Parts	Microfilter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	0.41 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
contamination display	integrated
Weight	See table below

Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
R412006054	G 1/4	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006055	G 1/4	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006056	G 1/4	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006060	G 1/4	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006061	G 1/4	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006062	G 1/4	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006063	G 3/8	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006064	G 3/8	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006065	G 3/8	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure
R412006069	G 3/8	0.356 Cv	22 ... 232 psi	semi-automatic, open without pressure
R412006070	G 3/8	0.356 Cv	22 ... 232 psi	fully automatic, open without pressure
R412006071	G 3/8	0.356 Cv	0 ... 232 psi	fully automatic, closed without pressure

Part No.	Reservoir	Protective guard	Weight
R412006054	Polycarbonate	Polyamide	0.485 lbs
R412006055	Polycarbonate	Polyamide	0.58 lbs
R412006056	Polycarbonate	Polyamide	0.58 lbs
R412006060	Die cast zinc, with window	-	1.07 lbs
R412006061	Die cast zinc, with window	-	1.24 lbs
R412006062	Die cast zinc, with window	-	1.25 lbs
R412006063	Polycarbonate	Polyamide	0.485 lbs

Part No.	Reservoir	Protective guard	Weight
R412006064	Polycarbonate	Polyamide	0.58 lbs
R412006065	Polycarbonate	Polyamide	0.58 lbs
R412006069	Die cast zinc, with window	-	1.04 lbs
R412006070	Die cast zinc, with window	-	1.22 lbs
R412006071	Die cast zinc, with window	-	1.23 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 1.45$ psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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.

Recommended pre-filtering 0.3 µm

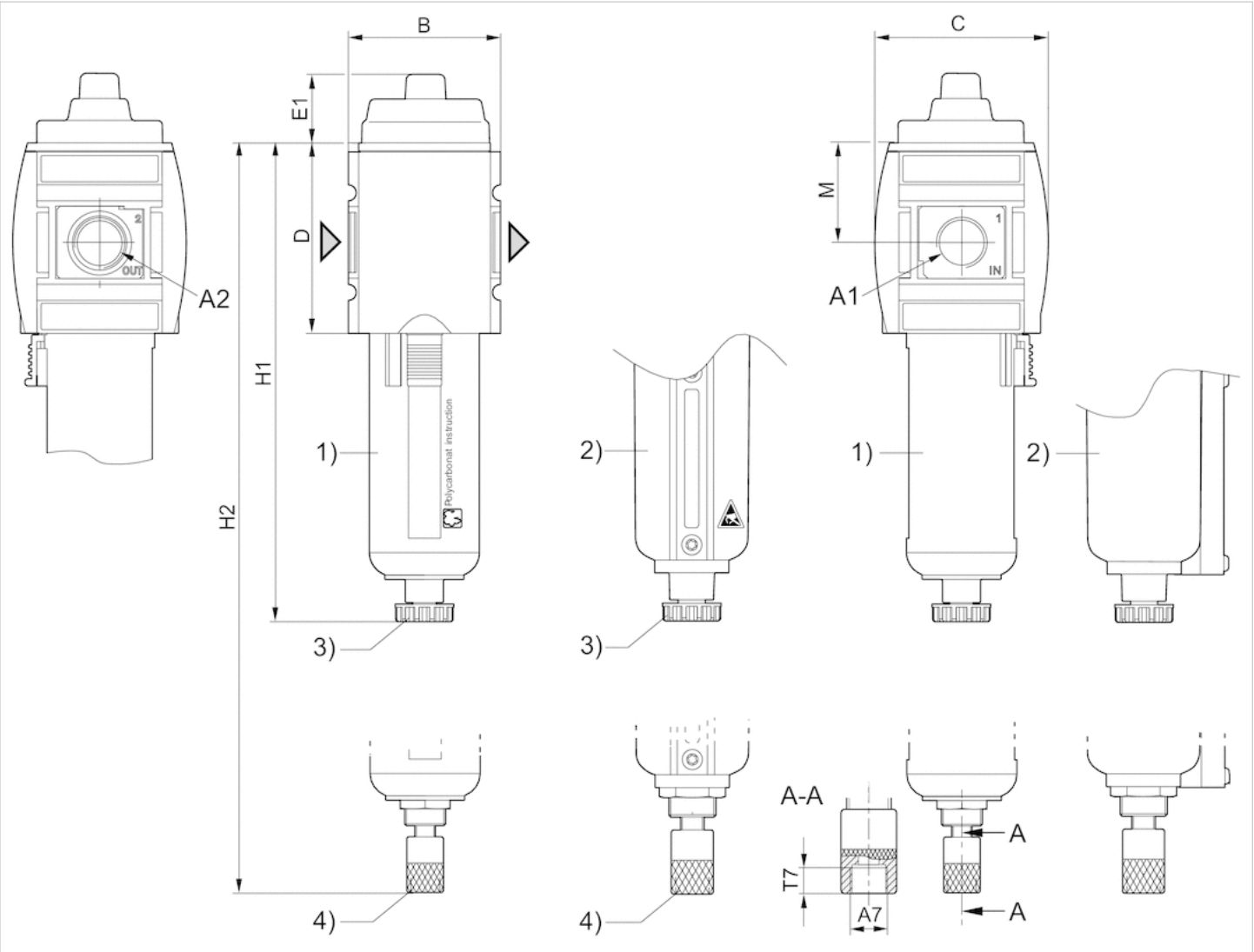
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

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



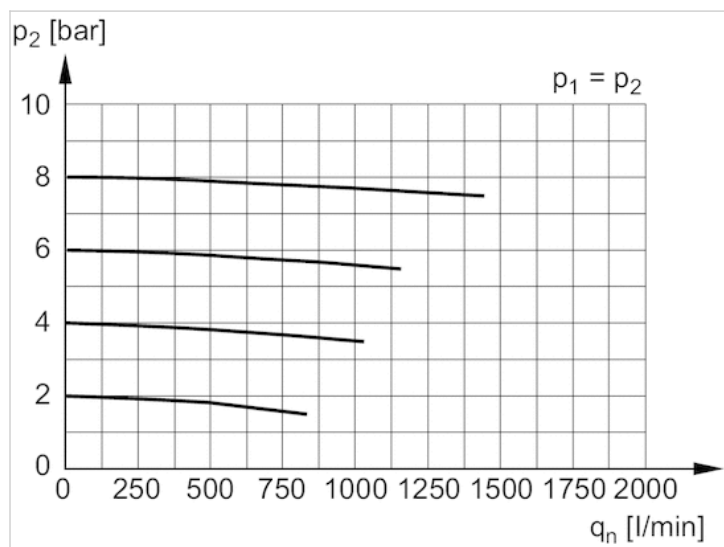
- A1 = input
A2 = output
A7 = condensate drain
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass
3) Semi-automatic condensate drain
4) Fully automatic condensate drain

Dimensions in mm

A1	A2	A7	B	C	D	E1	H1	H2	M	T7
G 1/4	G 1/4	G 1/8	52	59	65	24	163.5	180.5	34	8.5
G 3/8	G 3/8	G 1/8	52	59	65	24	163.5	180.5	34	8.5

Diagrams

Flow rate characteristic



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

Active carbon filter, Series AS2-FLA

- G 1/4, G 3/8
- suitable for ATEX



Version	Active carbon filter, Can be assembled into blocks
Parts	Active carbon filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	0.41 fl.oz.
Filter element	exchangeable
Condensate drain	without
Weight	See table below

Technical data

Part No.	Port	Qn	Reservoir	Protective guard	Weight
R412006072	G 1/4	0.66 Cv	Polycarbonate	Polyamide	0.485 lbs
R412006074	G 1/4	0.66 Cv	Die cast zinc, with window	-	1 lbs
R412006075	G 3/8	0.66 Cv	Polycarbonate	Polyamide	0.485 lbs
R412006077	G 3/8	0.66 Cv	Die cast zinc, with window	-	0.97 lbs

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 1.45 psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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

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

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

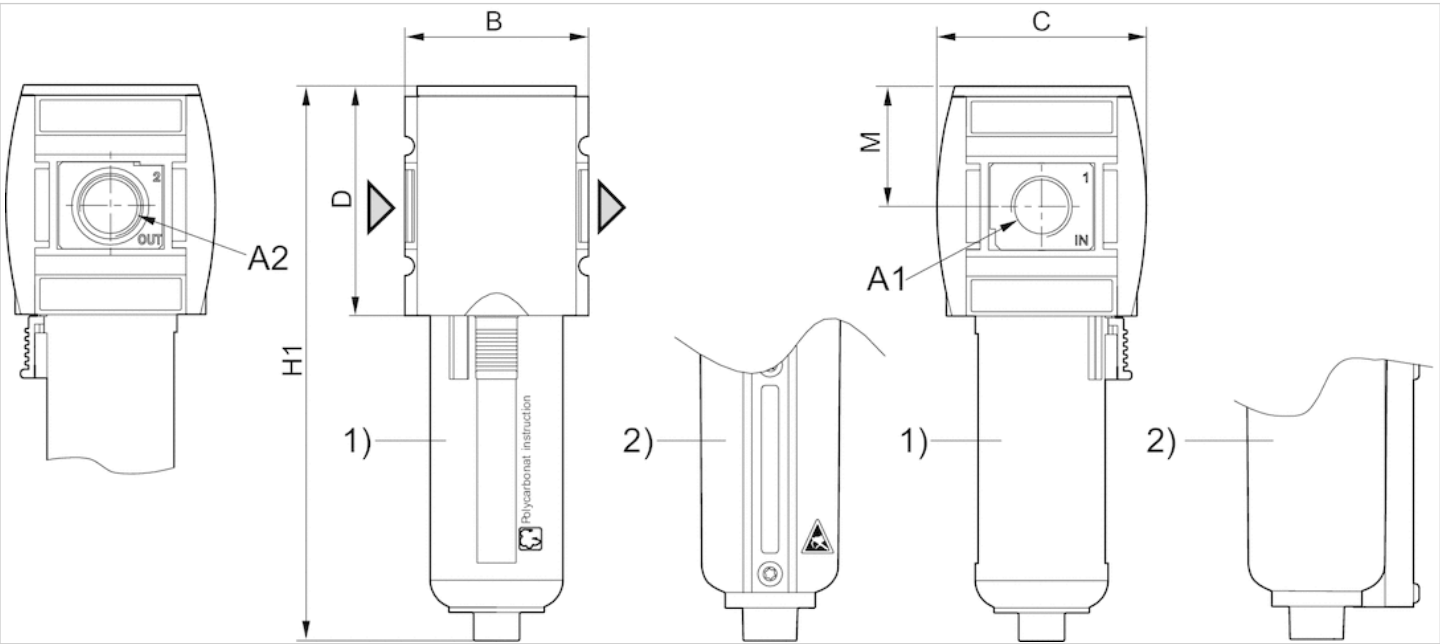
Max. achievable compressed air class acc. to ISO 8573-1:2010 - : - : 1

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



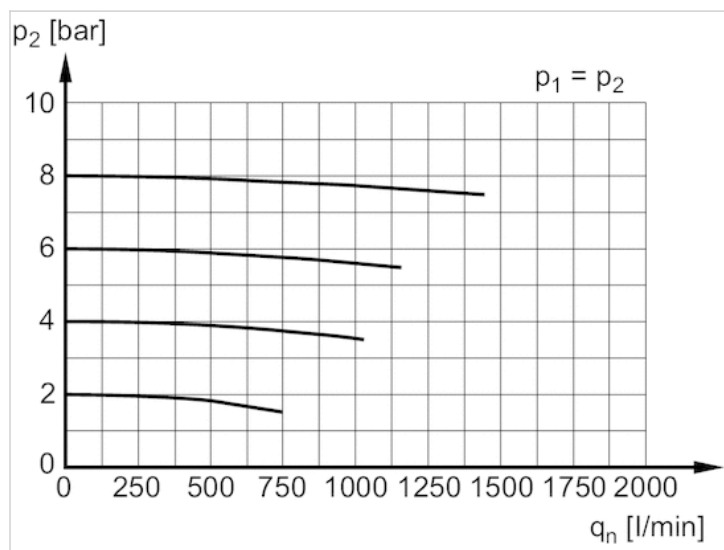
- A1 = input
A2 = output
1) Plastic reservoir and protective guard with window
2) Metal reservoir with inspection glass

Dimensions in mm

A1	A2	B	C	D	H1	M
G 1/4	G 1/4	52	59	65	157	34
G 3/8	G 3/8	52	59	65	157	34

Diagrams

Flow rate characteristic



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

Diaphragm-type dryer, Series AS2-ADD

- G 3/8

- suitable for ATEX



Version

Parts

Mounting orientation

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Filter element

Lowering pressure dew point

Weight

Diaphragm-type dryer

Diaphragm-type dryer

vertical

suitable for ATEX

58 ... 181 psi

36 ... 122 °F

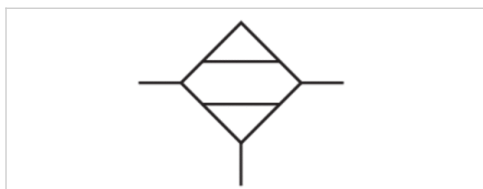
36 ... 122 °F

Compressed air, Neutral gases

not exchangeable

68 °F

See table below



Technical data

Part No.	Port	Flow	Reservoir	Weight	Fig.	
		Qn				
R412006078	G 3/8	0.051 Cv	Aluminum	1.06 lbs	Fig. 1	1)
R412006079	G 3/8	0.102 Cv	Aluminum	1.26 lbs	Fig. 1	1)
R412006080	G 3/8	0.152 Cv	Aluminum	1.52 lbs	Fig. 1	1)
R412006081	G 3/8	0.203 Cv	Aluminum	1.54 lbs	Fig. 1	1)
R412006082	G 3/8	0.305 Cv	Aluminum	3.15 lbs	Fig. 2	2)
R412006083	G 3/8	0.406 Cv	Aluminum	3.81 lbs	Fig. 2	2)

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

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Notice: air may not contain condensate

purge air approx. 12% of nominal flow Qn

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

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, μm 5

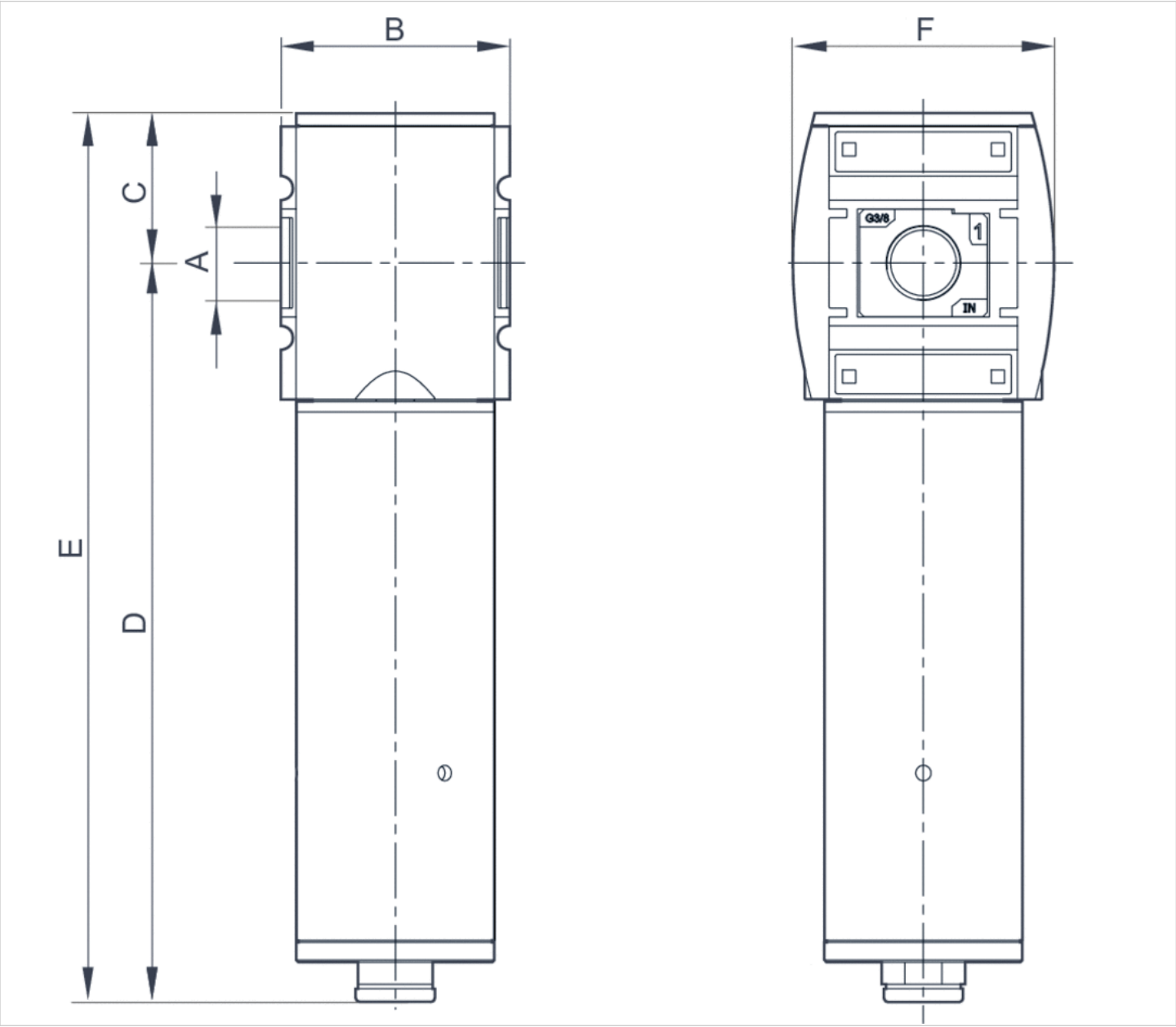
0.01 μm

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seal	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Reservoir	Aluminum

Dimensions

Dimensions Fig. 1

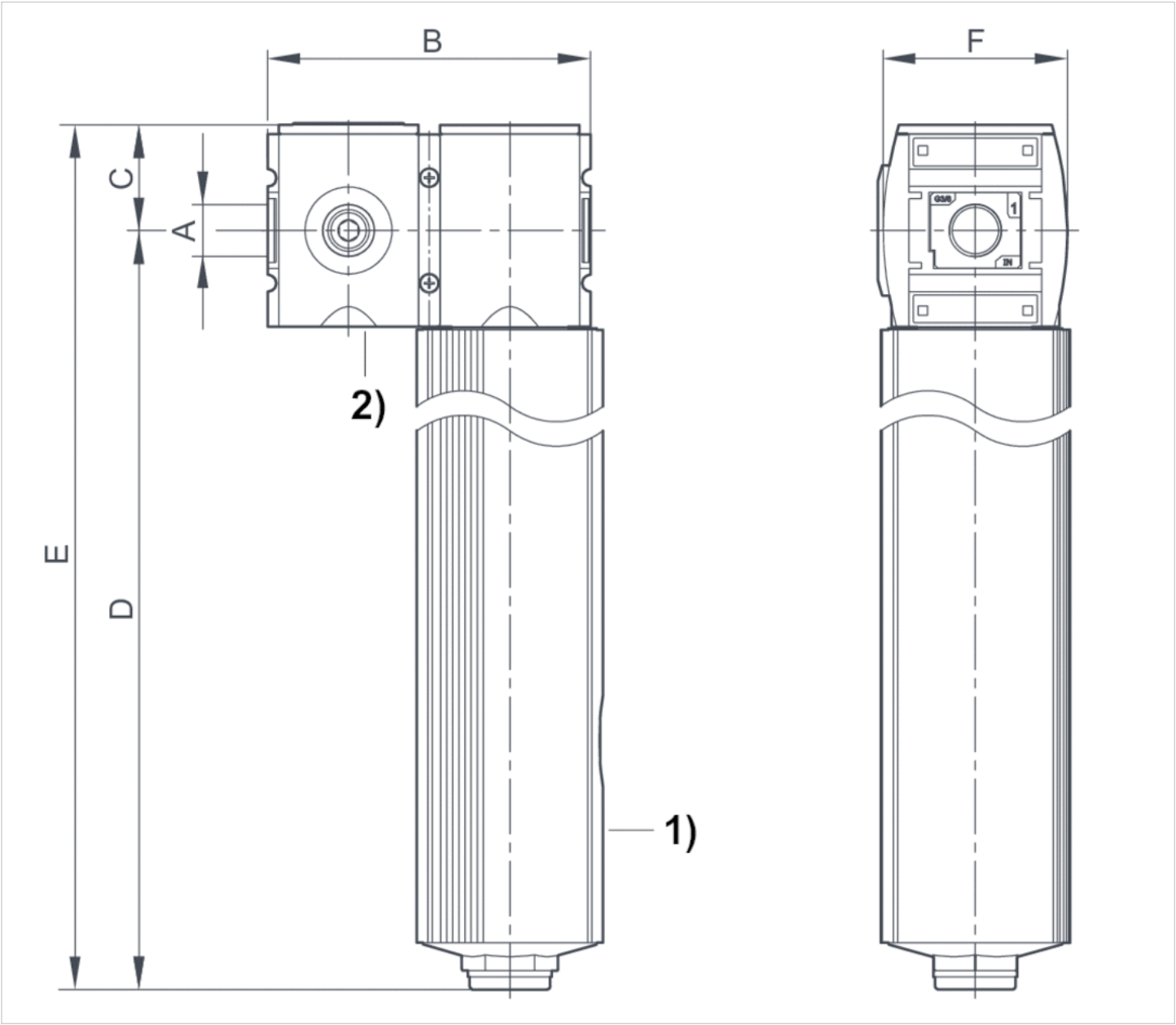


Dimensions in mm

A	B	C	D	E	F
G 3/8	52	34	167.9	201.9	59
G 3/8	52	34	217.9	251.9	59
G 3/8	52	34	257.9	291.9	59
G 3/8	52	34	317.9	351.9	59

Dimensions

Dimensions Fig. 2



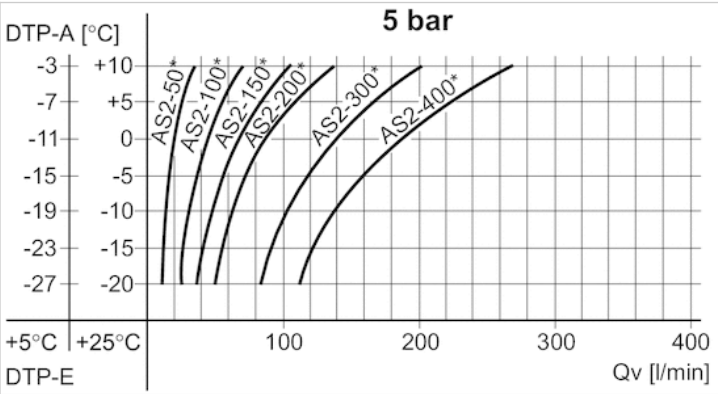
- 1) Diaphragm-type dryer
- 2) Incl. second distributor

Dimensions in mm

A	B	C	D	E	F
G 3/8	104	34	412	446	59
G 3/8	104	34	472	506	59

Diagrams

performance charts



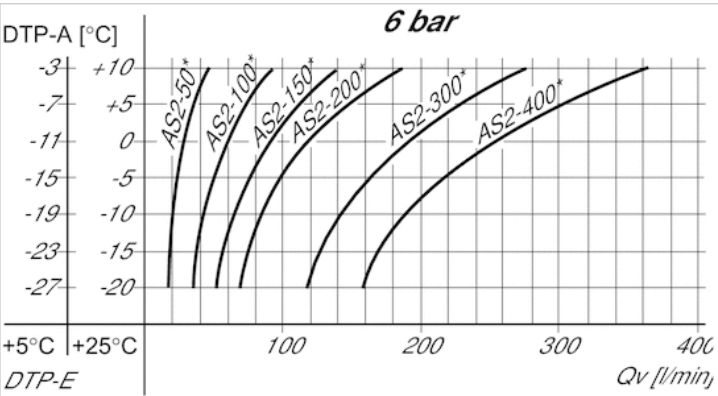
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

* Nominal flow Qn

performance charts



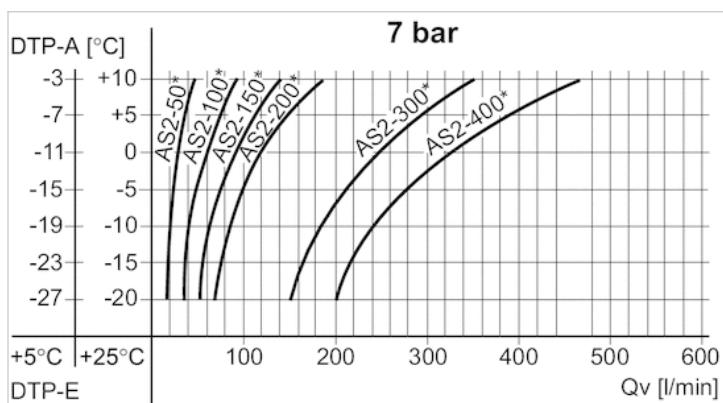
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

* Nominal flow Qn

performance charts



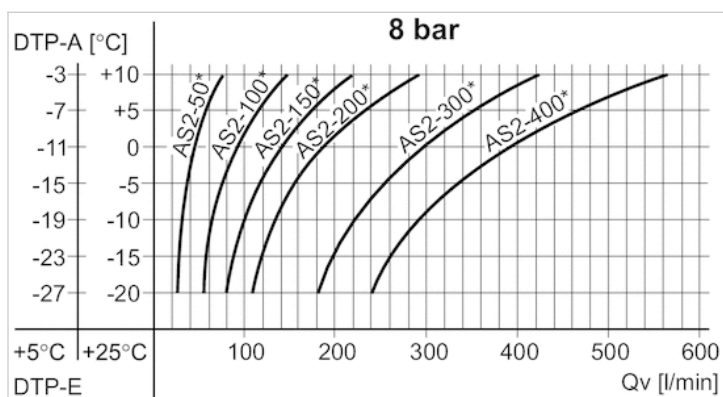
DTP-E: pressure dew point input

DTP-A: pressure dew point output

Qv: input flow rate (nominal flow rate Qn + purge air)

* Nominal flow Qn

performance charts



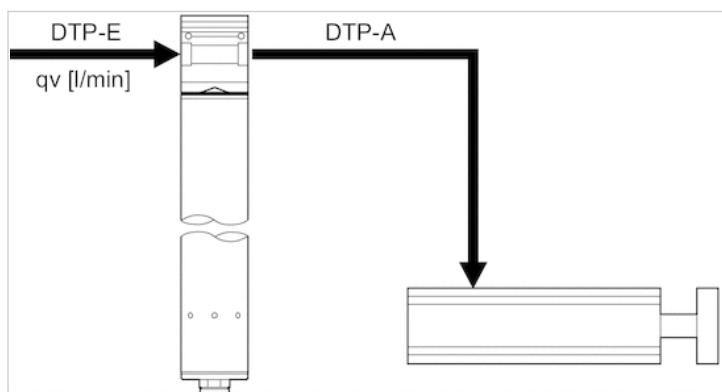
DTP-E: pressure dew point input

DTP-A: pressure dew point output

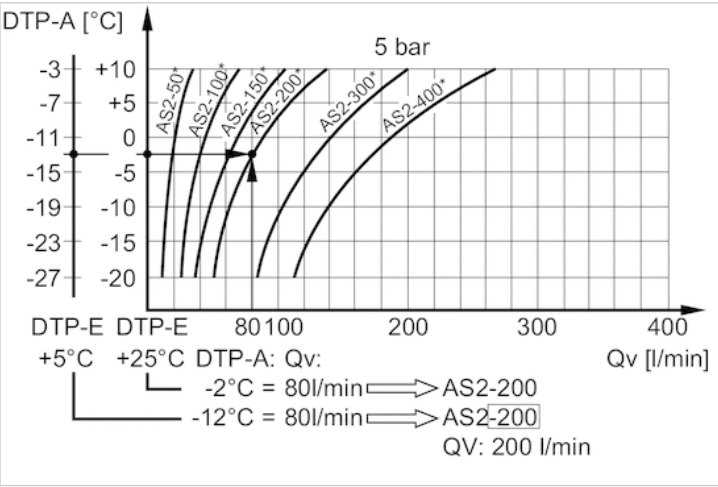
Qv: input flow rate (nominal flow rate Qn + purge air)

* Nominal flow Qn

Example



Example

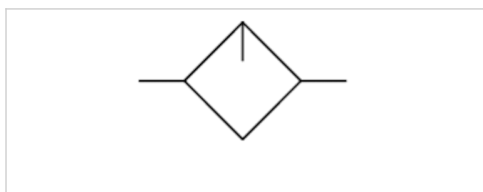


Result: membrane dryer series AS2-200
 (with a Qn of 200 l/min), part no. R412006081
 * Nominal flow Qn

Standard oil-mist lubricator, Series AS2-LBS

- G 1/4, G 3/8

- suitable for ATEX



Version	Oil-mist lubricator, Can be assembled into blocks
Parts	Standard oil-mist lubricator
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	8 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Lubricator reservoir volume	1.35 fl.oz.
Type of filling	Semi-automatic oil filling during operation, Manual oil filling
Weight	0.505 lbs

Technical data

Part No.	Port	Nominal flow Qn	Reservoir	Protective guard	
R412006225	G 1/4	2.85 Cv	Polycarbonate	Polyamide	1)
R412006226	G 1/4	2.85 Cv	Polycarbonate	Polyamide	2)
R412006229	G 1/4	2.85 Cv	Die cast zinc, with window	-	1)
R412006231	G 3/8	3.15 Cv	Polycarbonate	Polyamide	1)
R412006232	G 3/8	3.15 Cv	Polycarbonate	Polyamide	2)
R412006235	G 3/8	3.15 Cv	Die cast zinc, with window	-	1)

Nominal flow Qn with secondary pressure p2 = 87 psi at $\Delta p = 14.5$ psi

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

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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.

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

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 1 Cv 1-2 drops

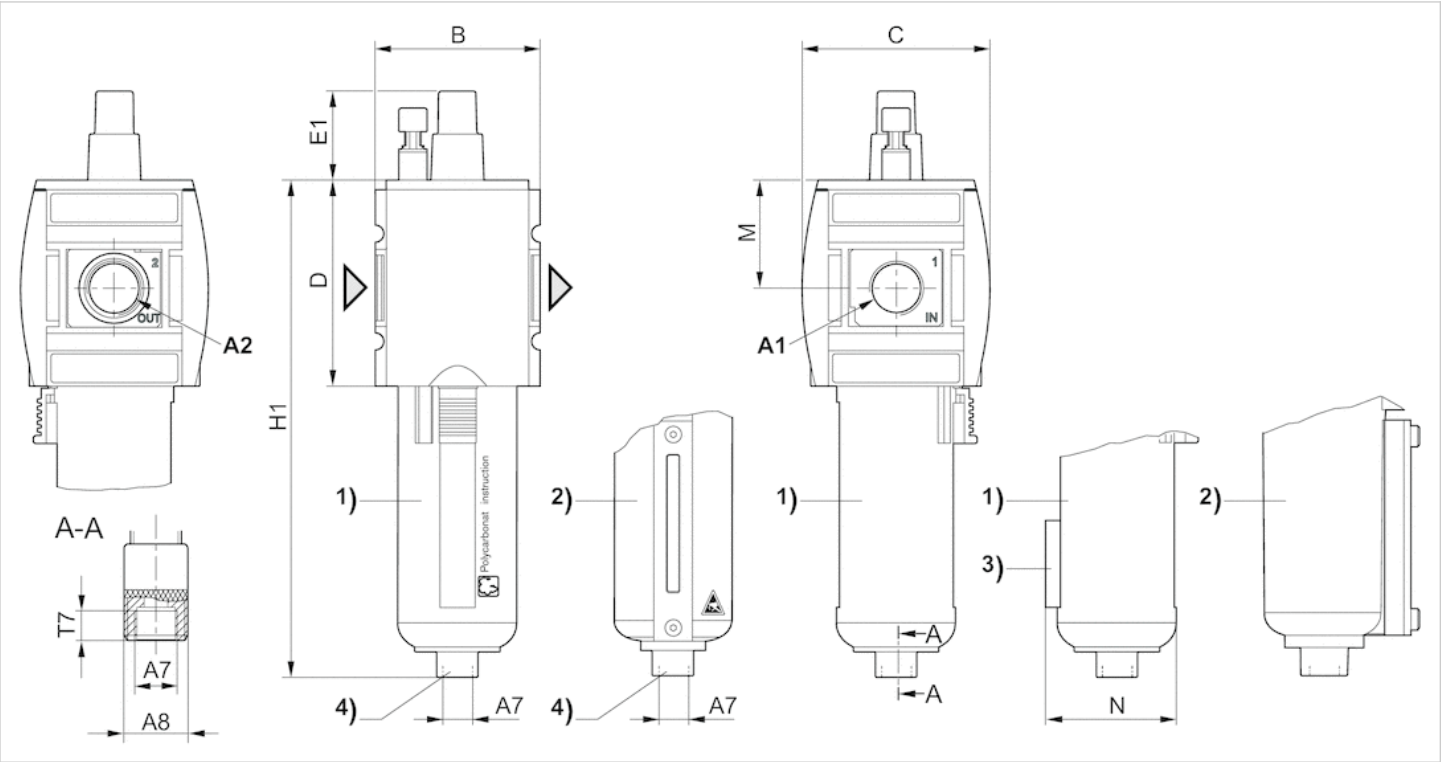
Technical information

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



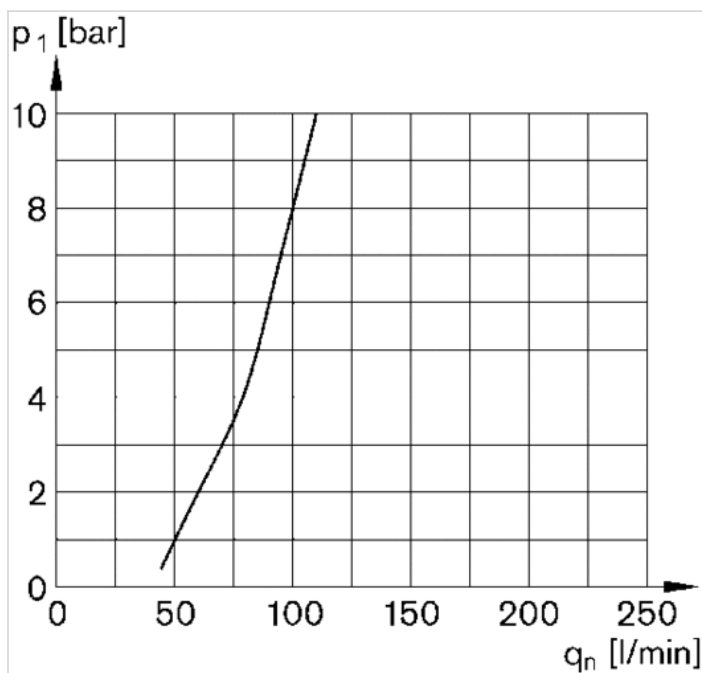
- A1 = input
 A2 = output
 A7 = condensate drain
 1) Plastic reservoir and protective guard with window
 2) Metal reservoir with inspection glass
 3) Holder for sensor
 4) Port for semi-automatic oil filling

Dimensions in mm

A1	A2	A7	A8	B	C	D	E1	H1	M	N
G 1/4	G 1/4	G 1/8	G 1/4	52	59	65	29.5	157	34	42.5
G 3/8	G 3/8	G 1/8	G 1/4	52	59	65	29.5	157	34	42.5

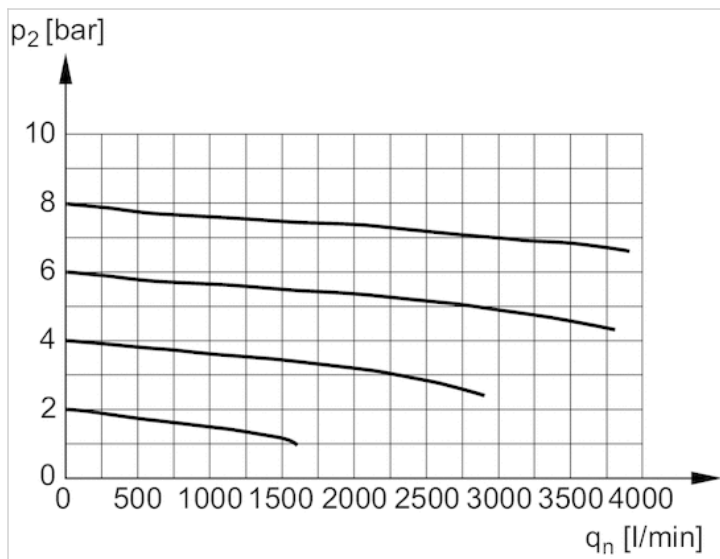
Diagrams

Lubricator activation margin



p_1 = working pressure
 q_n = nominal flow

Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

Filling unit, electrically operated, Series AS2-SSU

- Compressed air connection G 1/4, G 3/8
- Pipe connection
- suitable for ATEX



Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow	1.32 Cv
Nominal flow 1 ► 2	1.32 Cv
Nominal flow 2 ► 3	0.386 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
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	0.935 lbs

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412006277		—	G 1/4	G 1/4	G 1/4
R412006282		—	G 3/8	G 3/8	G 1/4
R412006286		—	G 1/4	G 1/4	G 1/4
R412006287		—	G 3/8	G 3/8	G 1/4
R412006278			G 1/4	G 1/4	G 1/4
R412006279			G 1/4	G 1/4	G 1/4
R412006280			G 1/4	G 1/4	G 1/4
R412006383			G 1/4	G 1/4	G 1/4
R412006283			G 3/8	G 3/8	G 1/4
R412006284			G 3/8	G 3/8	G 1/4
R412006285			G 3/8	G 3/8	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006277	-	-	-
R412006282	-	-	-
R412006286	-	-	-
R412006287	-	-	-
R412006278	24 V	-	-
R412006279	-	110 V	110 V

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006280	-	220 V	230 V
R412006383	24 V	-	-
R412006283	24 V	-	-
R412006284	-	110 V	110 V
R412006285	-	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
R412006277	-	-	-	-
R412006282	-	-	-	-
R412006286	-	-	-	-
R412006287	-	-	-	-
R412006278	2 W	-	-	-
R412006279	-	1.6 VA	1.4 VA	2.2 VA
R412006280	-	1.6 VA	1.4 VA	2.2 VA
R412006383	2 W	-	-	-
R412006283	2 W	-	-	-
R412006284	-	1.6 VA	1.4 VA	2.2 VA
R412006285	-	1.6 VA	1.4 VA	2.2 VA

Part No.	Switch-on power	Electrical connection	Connector standard
	AC 60 Hz	Pilot valve	
R412006277	-	-	-
R412006282	-	-	-
R412006286	-	-	-
R412006287	-	-	-
R412006278	-	Plug, ISO 15217, form C	ISO 15217
R412006279	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412006280	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412006383	-	Plug, M12x1	-
R412006283	-	Plug, ISO 15217, form C	ISO 15217
R412006284	1.6 VA	Plug, ISO 15217, form C	ISO 15217
R412006285	1.6 VA	Plug, ISO 15217, form C	ISO 15217

Part No.	basic valve with electrical connector
R412006277	Basic valve without pilot valve
R412006282	Basic valve without pilot valve
R412006286	Basic valve without pilot valve, with CNOMO subbase
R412006287	Basic valve without pilot valve, with CNOMO subbase
R412006278	Basic valve with pilot valve
R412006279	Basic valve with pilot valve
R412006280	Basic valve with pilot valve
R412006383	Basic valve with pilot valve
R412006283	Basic valve with pilot valve
R412006284	Basic valve with pilot valve
R412006285	Basic valve with pilot valve

Part No.	Reverse polarity protection	ATEX	Fig.	
R412006277	-	suitable for ATEX	Fig. 1	1)
R412006282	-	ATEX optional	Fig. 1	1)
R412006286	-	ATEX optional	Fig. 2	1)
R412006287	-	ATEX optional	Fig. 2	1)
R412006278	Protected against polarity reversal	suitable for ATEX	Fig. 3	2)
R412006279	Protected against polarity reversal	suitable for ATEX	Fig. 3	2)
R412006280	Protected against polarity reversal	suitable for ATEX	Fig. 3	2)
R412006383	-	suitable for ATEX	Fig. 4	3)
R412006283	Protected against polarity reversal	suitable for ATEX	Fig. 3	2)
R412006284	Protected against polarity reversal	suitable for ATEX	Fig. 3	2)
R412006285	Protected against polarity reversal	suitable for ATEX	Fig. 3	2)

Nominal flow Q_n with secondary pressure $p_2 = 87$ psi at $\Delta p = 14.5$ psi

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

2) IP65

3) With adjustment screw lock, IP65

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

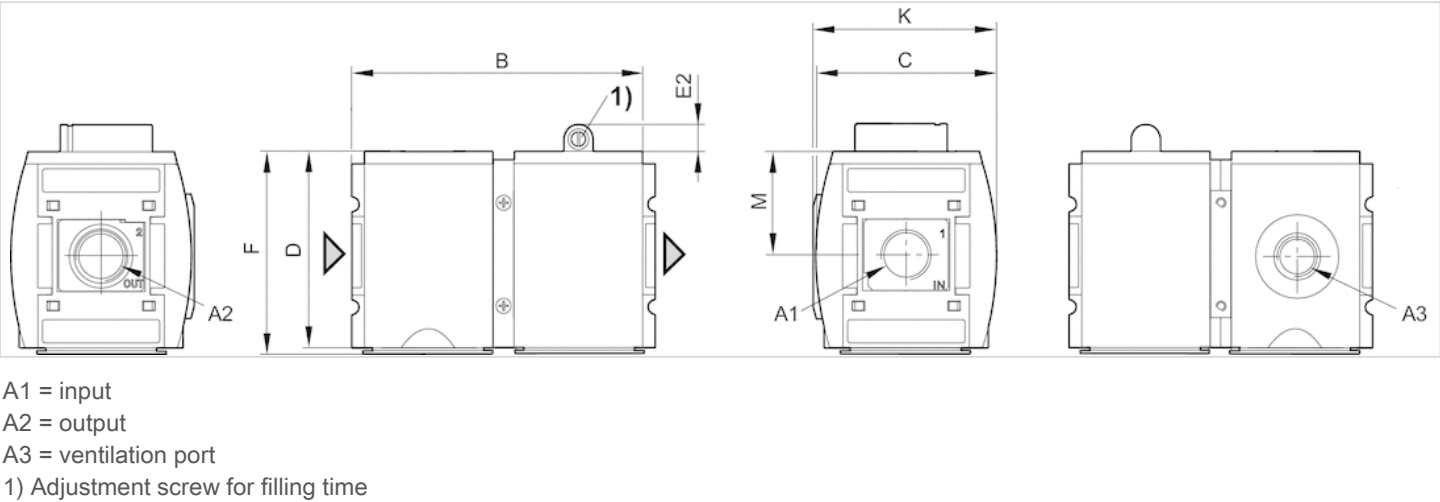
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

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

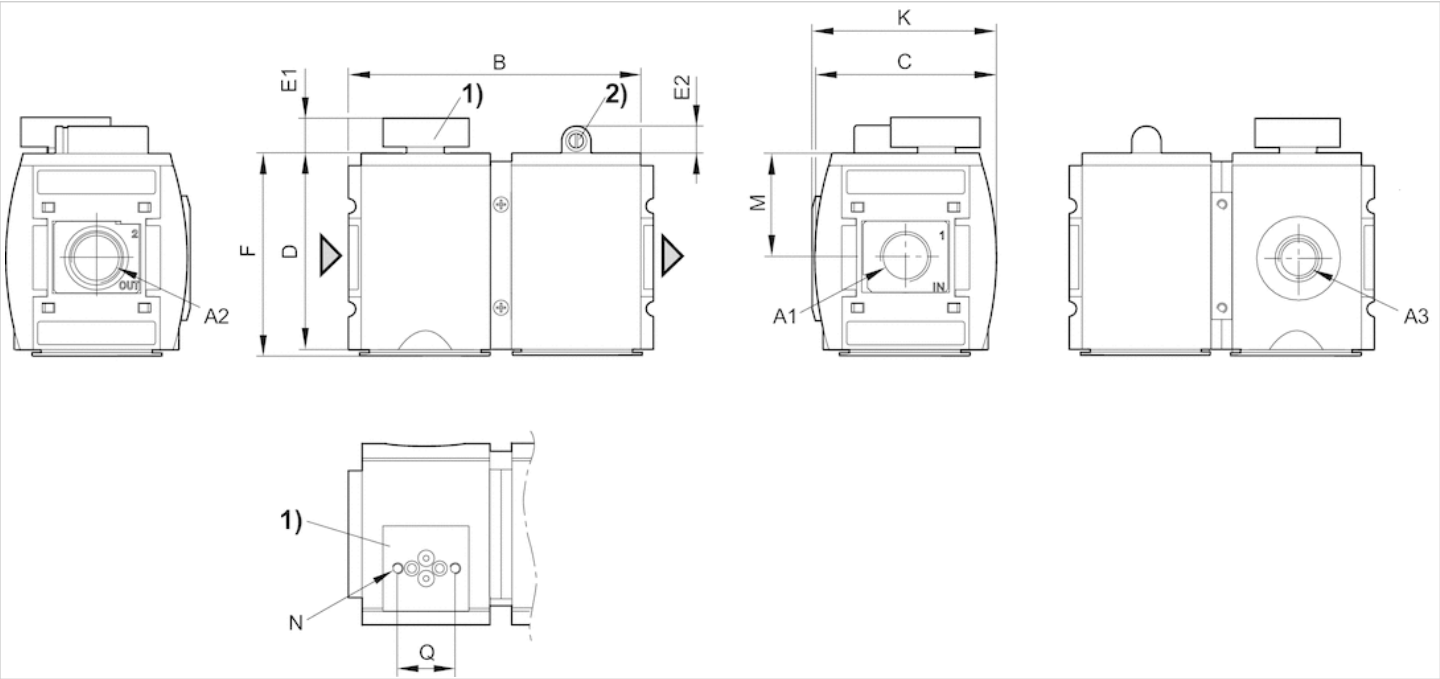


Dimensions in mm

A1	A2	A3	B	C	D	E2	F	K	M
G 1/4	G 1/4	G 1/4	104	59	65	11	67	60.9	34
G 3/8	G 3/8	G 1/4	104	59	65	11	67	60.5	34

Dimensions

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



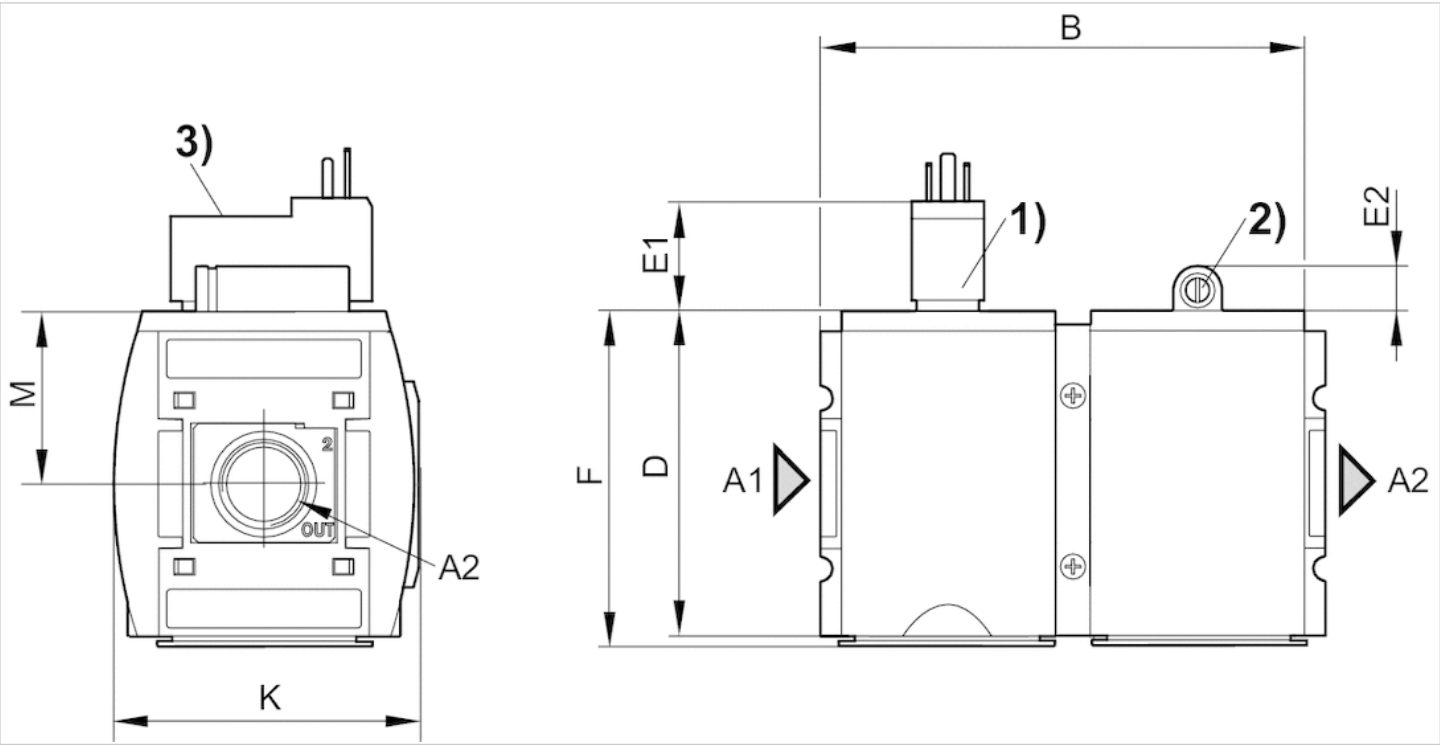
2) Adjustment screw for filling time

Dimensions in mm

A1	A2	A3	B	C	D	E1	E2	F	K	M	N	Q
G 1/4	G 1/4	G 1/4	104	59	65	11	11	67	60.9	34	M4	21
G 3/8	G 3/8	G 1/4	104	59	65	11	11	67	60.5	34	M4	21

Dimensions

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



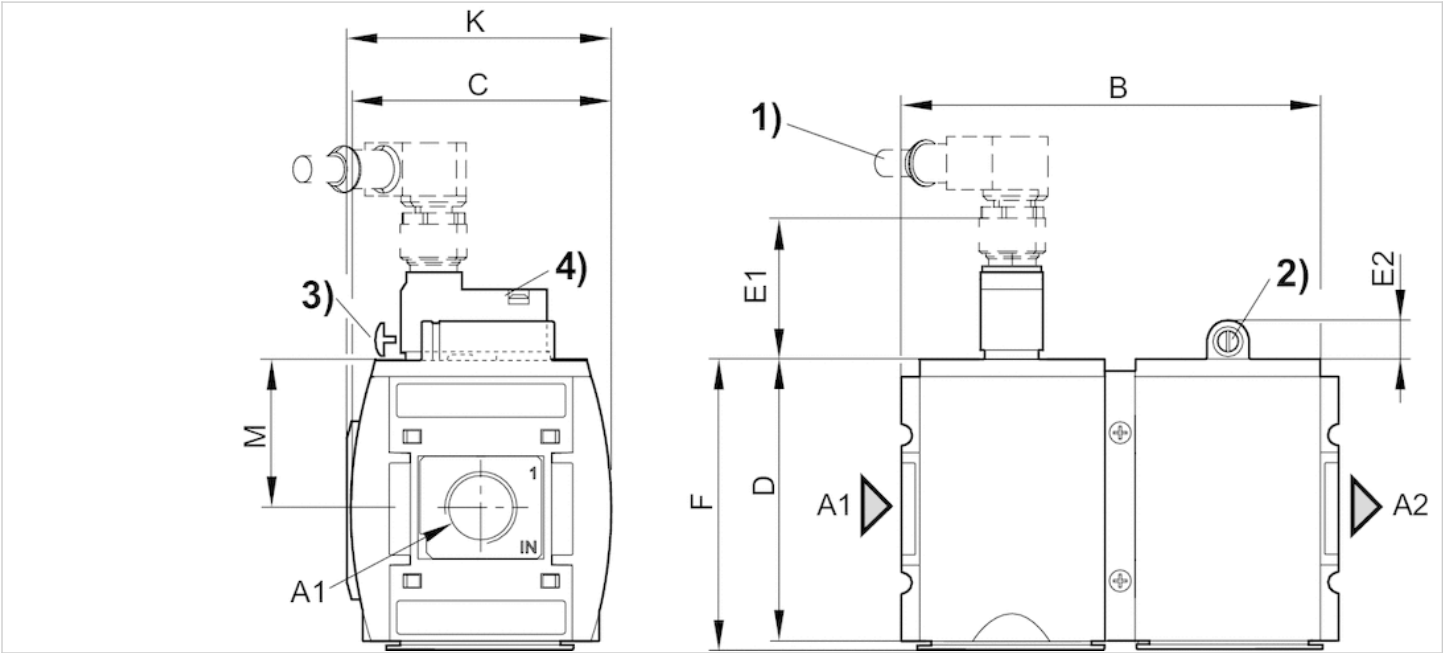
- A1 = input
A2 = output
1) Connection for valve plug connector according to ISO 15217 (form C)
2) Adjustment screw for filling time
3) Manual override

Dimensions in mm

A1	A2	B	D	E1	E2	F	K	M
G 1/4	G 1/4	104	65	22	11	67	60.9	34
G 3/8	G 3/8	104	65	22	11	67	60.9	34

Dimensions

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



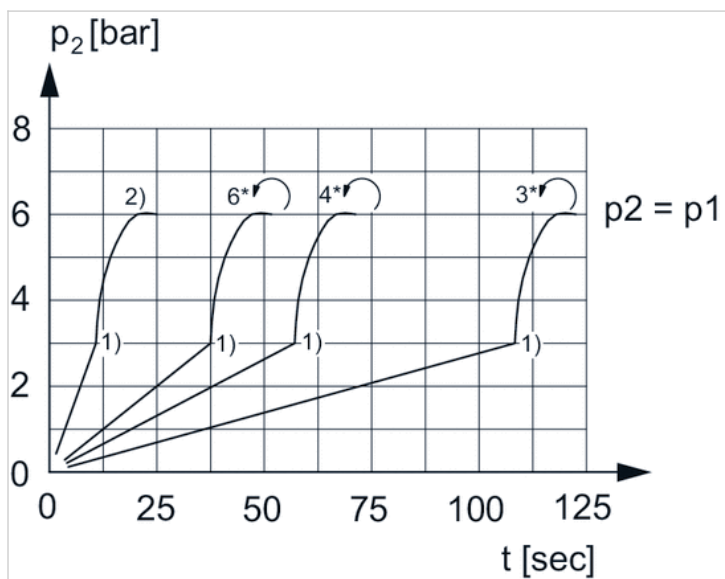
- A1 = input
A2 = output
1) Port for plug M12x1
2) Adjustment screw for filling time
3) Adjustment screw lock
4) Manual override

Dimensions in mm

A1	A2	B	C	D	E1	E2	F	K	M
G 1/4	G 1/4	104	59	65	39	11	67	60.9	34

Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

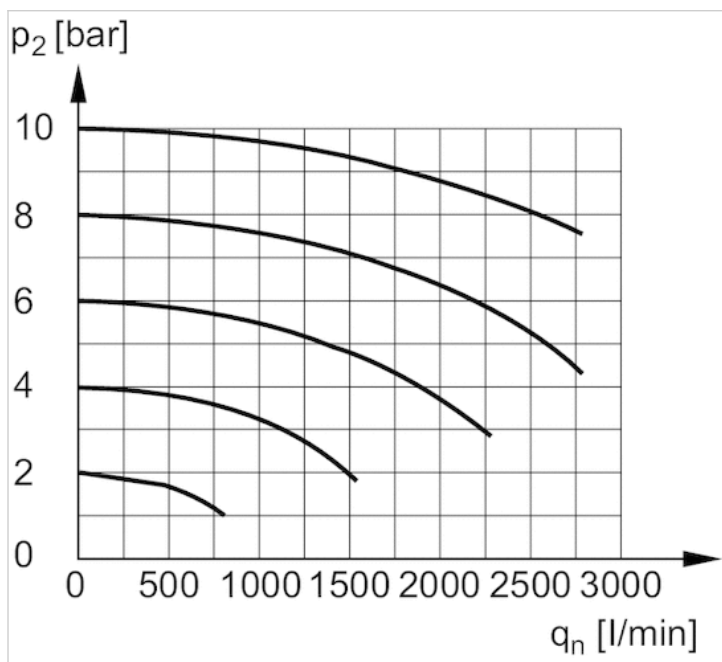
t = filling time, adjustable via adjustment screw (throttle)

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

2) Throttle fully opened

* Adjustment screw rotations

Flow rate characteristic

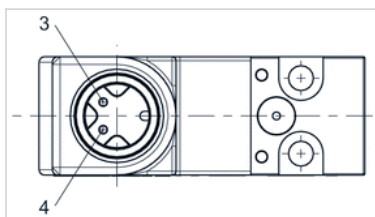


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

Pin assignment M12x1

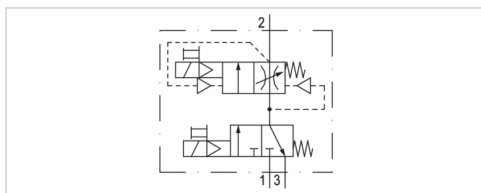


3: +/-

4: +/-

Filling unit, electrically operated, Series AS2-SSU

- adjustable filling time and change-over pressure
- Compressed air connection G 1/4
- Pipe connection
- Electrical connection: Plug, M12x1
- ATEX optional



Version

Parts

Nominal flow

Nominal flow 1 ► 2

Nominal flow 2 ► 3

Working pressure min./max.

Medium

Medium temperature min./max.

Ambient temperature min./max.

Pilot

Sealing principle

Max. particle size

Protection class acc. to DIN EN 61140, with plug

Duty cycle

Weight

Poppet valve, Can be assembled into blocks

Filling valve, 3/2-directional valve, electrically operated

2.03 Cv

2.03 Cv

0.386 Cv

37 ... 145 psi

Compressed air, Neutral gases

14 ... 122 °F

14 ... 122 °F

Internal

Soft sealing

25 µm

IP65

100 %

0.935 lbs

Technical data

Part No.		Compressed air connection input	Compressed air connection output	Exhaust
R412006384		G 1/4	G 1/4	G 1/4

Part No.	Operational voltage	Power consumption	Electrical connection
	DC	DC	Pilot valve
R412006384	24 V	2 W	Plug, M12x1

Part No.	basic valve with electrical connector
R412006384	Basic valve with pilot valve

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi, With adjustment screw lock

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.

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

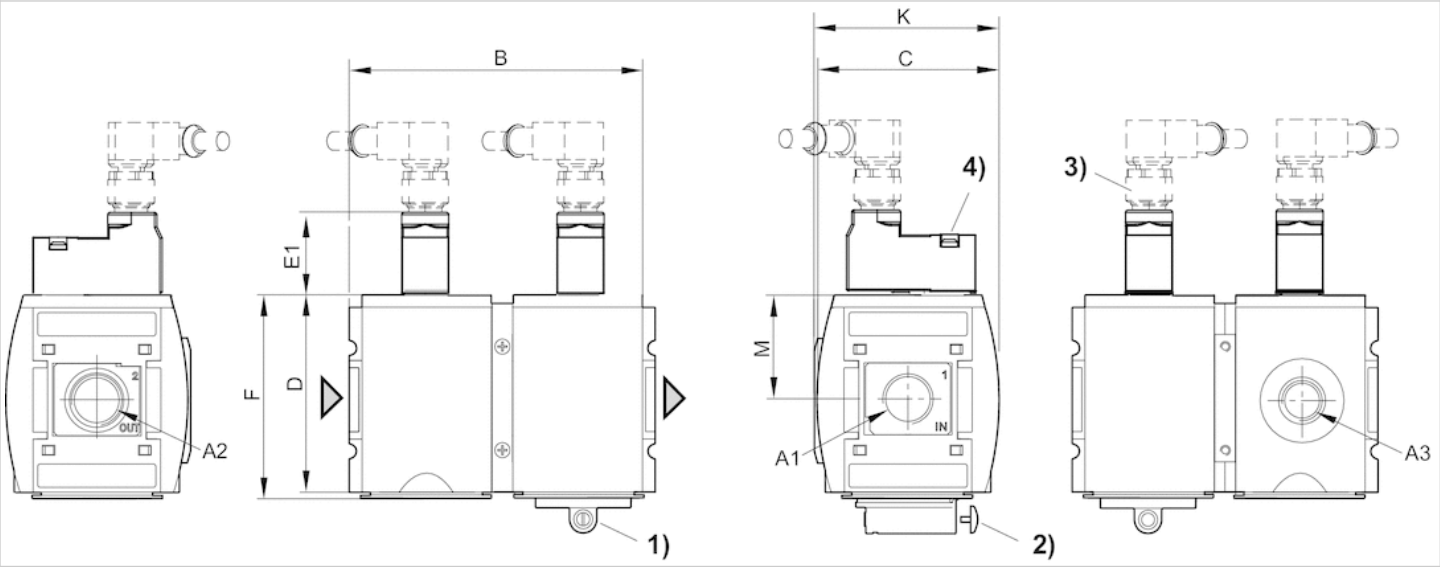
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.

Technical information

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

Dimensions

Dimensions



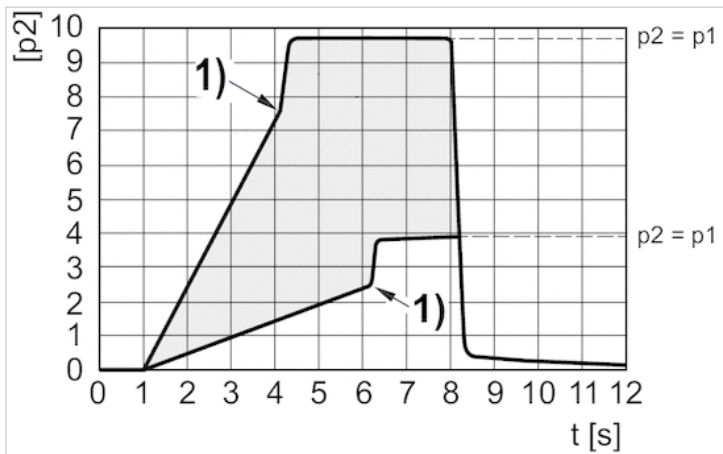
- A1 = input
- A2 = output
- A3 = ventilation port
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) plug M12
- 4) Manual override

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	K	M
G 1/4	G 1/4	G 1/4	104	59	65	39	67	60.9	34

Diagrams

Secondary pressure while filling



p_1 = working pressure

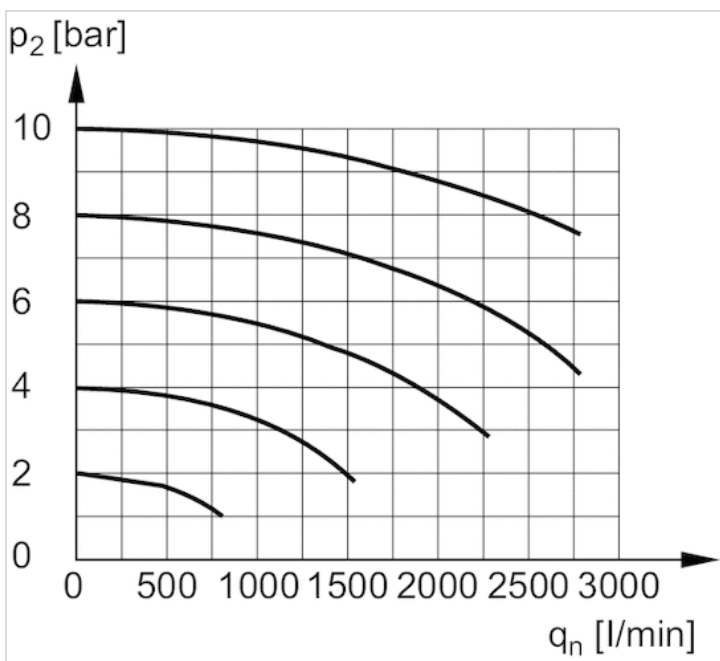
p_2 = secondary pressure

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

Change-over pressure individually adjustable via electrical signal

1) Switching point: adjustable filling time and change-over pressure

Flow rate characteristic

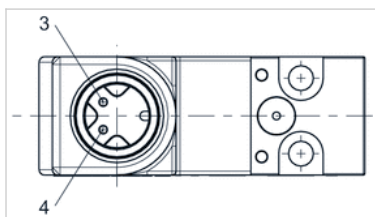


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

Pin assignment M12x1

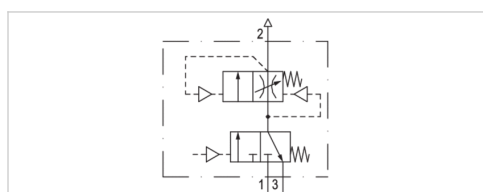


3: +/-

4: +/-

Filling unit, pneumatically operated, Series AS2-SSU

- adjustable filling time
- Compressed air connection G 3/8, G 1/4
- Pipe connection
- suitable for ATEX



Version

Pilot

Sealing principle

Certificates

Working pressure min./max.

Control pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Weight

Poppet valve, Can be assembled into blocks

Internal

Soft sealing

suitable for ATEX

0 ... 232 psi

37 ... 232 psi

14 ... 122 °F

14 ... 122 °F

Compressed air, Neutral gases

40 µm

0.935 lbs

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	
R412006281	G 3/8	G 1/8	G 1/4	2.03 Cv	2.03 Cv	0.386 Cv	1)
R412006276	G 1/4	G 1/8	G 1/4	2.03 Cv	2.03 Cv	0.386 Cv	1)
R412006289	G 1/4	G 1/4	G 1/4	2.03 Cv	2.03 Cv	0.386 Cv	2)

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

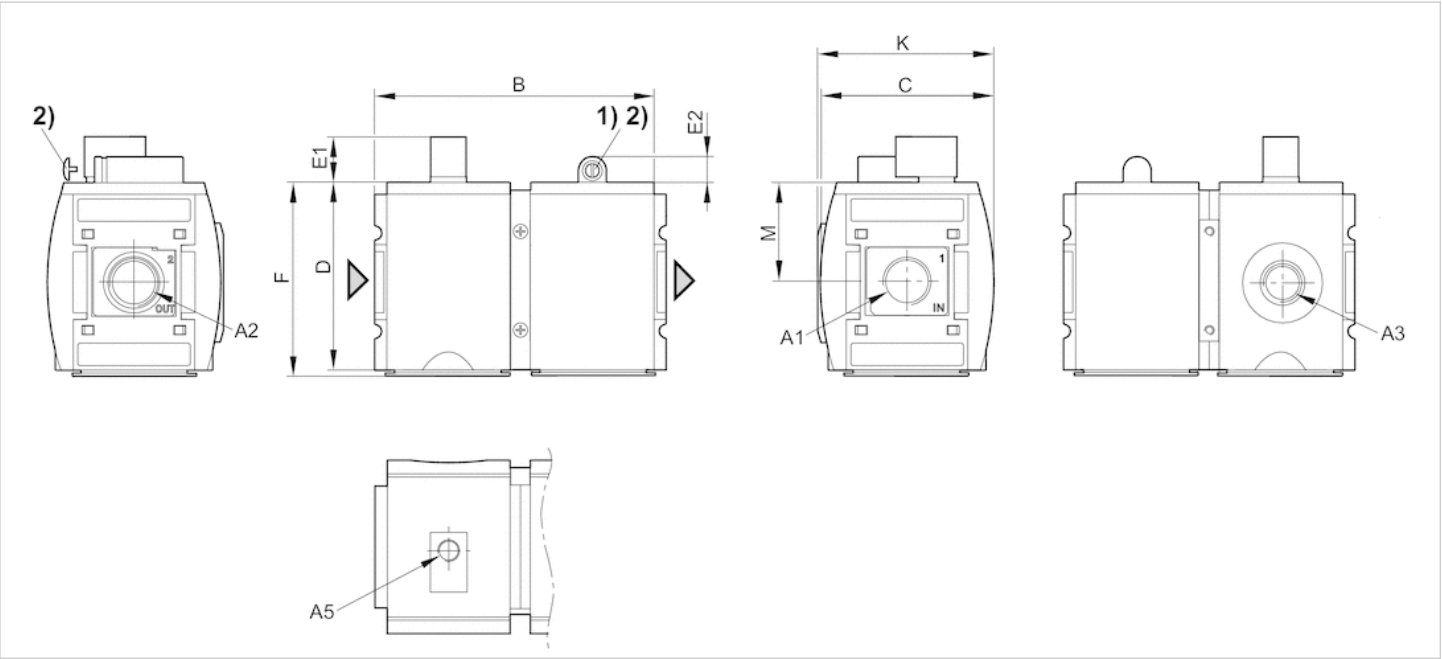
2) With adjustment screw lock, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Dimensions



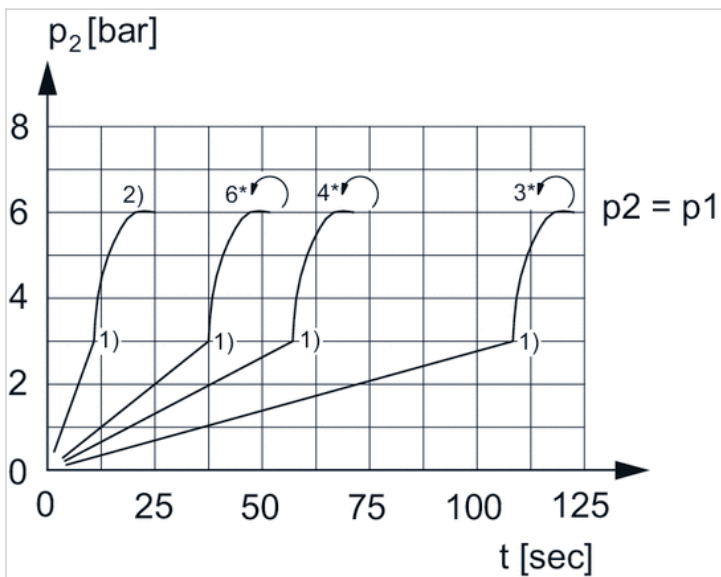
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = control pressure connection
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock

Dimensions in mm

A1	A2	A3	A5	B	C	D	E1	E2	F	K	M
G 3/8	G 3/8	G 1/4	G 1/8	104	59	65	17	11	67	60.9	34
G 1/4	G 1/4	G 1/4	G 1/8	104	59	65	17	11	67	60.9	34

Diagrams

Secondary pressure while filling



p_1 = working pressure

p_2 = secondary pressure

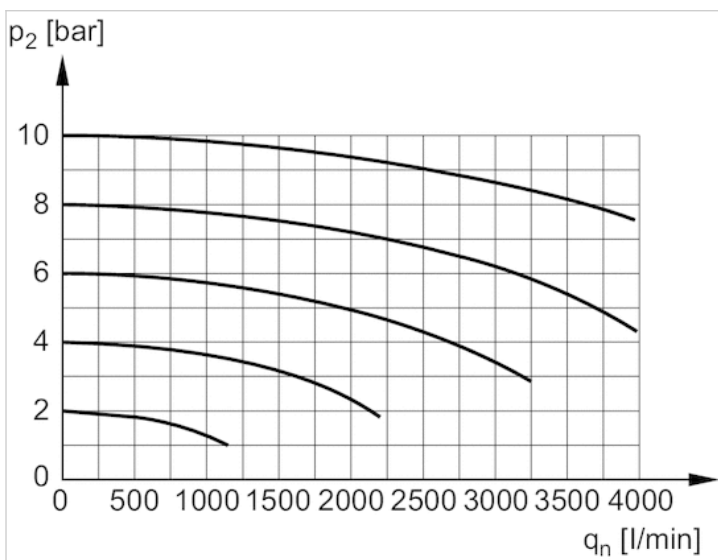
t = filling time, adjustable via adjustment screw (throttle)

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

2) Throttle fully opened

* Adjustment screw rotations

Flow rate characteristic

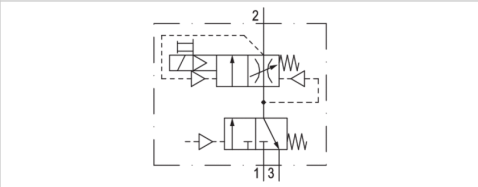


p_2 = secondary pressure

q_n = nominal flow

Filling unit, pneumatically operated, Series AS2-SSU

- adjustable filling time and change-over pressure
- Compressed air connection G 1/4
- Pipe connection



Version	Poppet valve, Can be assembled into blocks
Pilot	Internal
Sealing principle	Soft sealing
Working pressure min./max.	0 ... 232 psi
Control pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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	0.935 lbs
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
R412006382	G 1/4	G 1/8	G 1/4	2.03 Cv	2.03 Cv	0.386 Cv

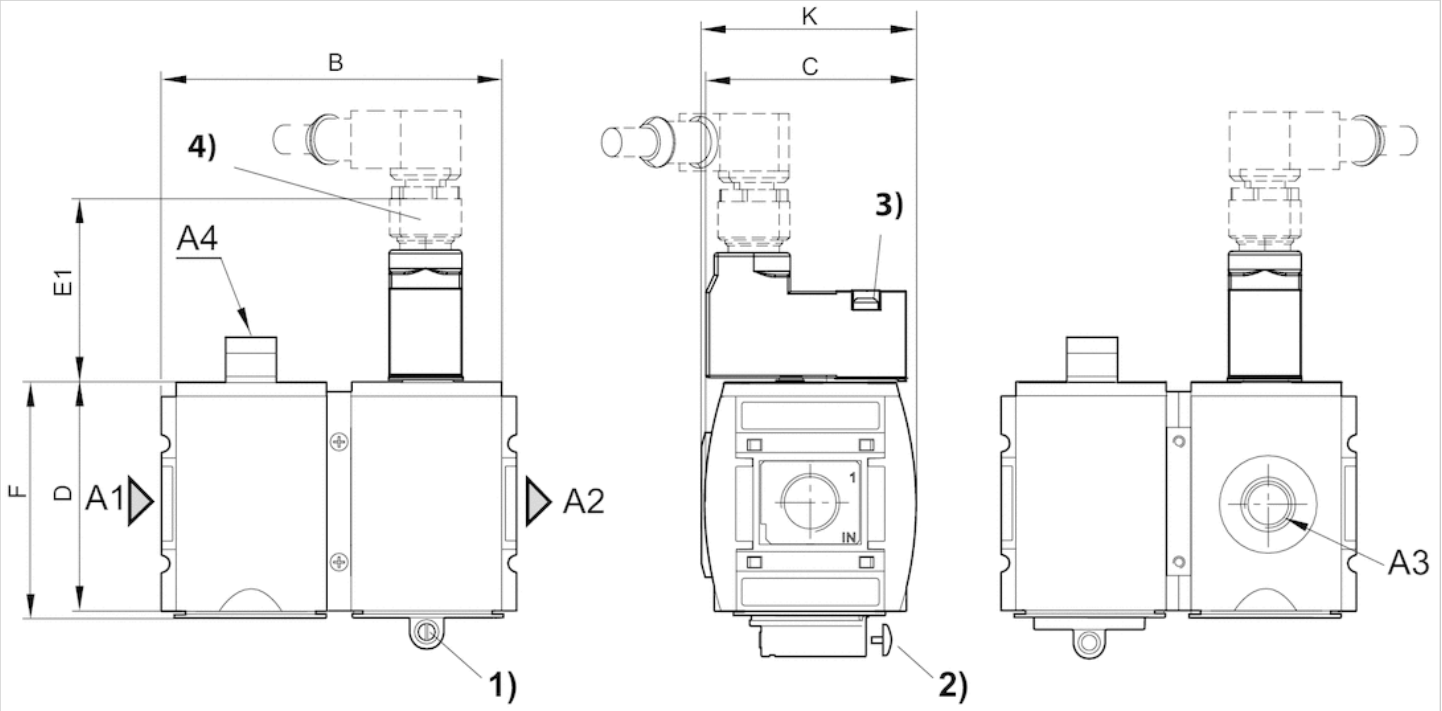
Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi, Electr. connection: valve plug connector M12x1

Technical information

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

Dimensions

Dimensions



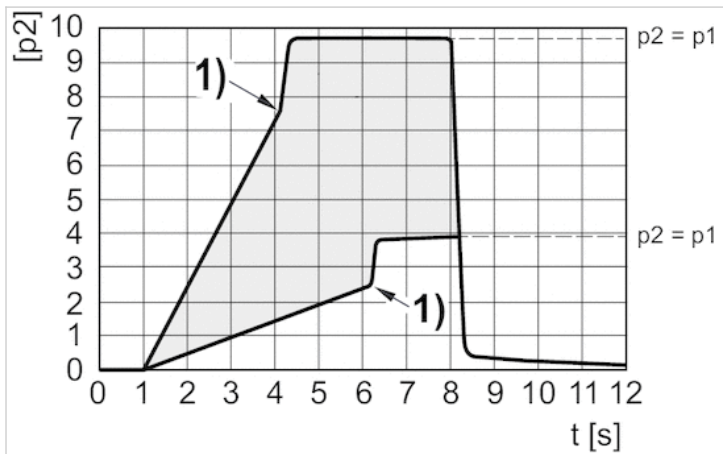
- A1 = input
- A2 = output
- A3 = ventilation port
- A4 = control pressure connection
- 1) Adjustment screw for filling time
- 2) Adjustment screw lock
- 3) plug M12
- 4) Manual override

Dimensions in mm

A1	A2	A3	A4	B	C	D	E1	F	K
G 1/4	G 1/4	G 1/4	G 1/8	104	59	65	39	67	60.9

Diagrams

Secondary pressure while filling



p_1 = working pressure

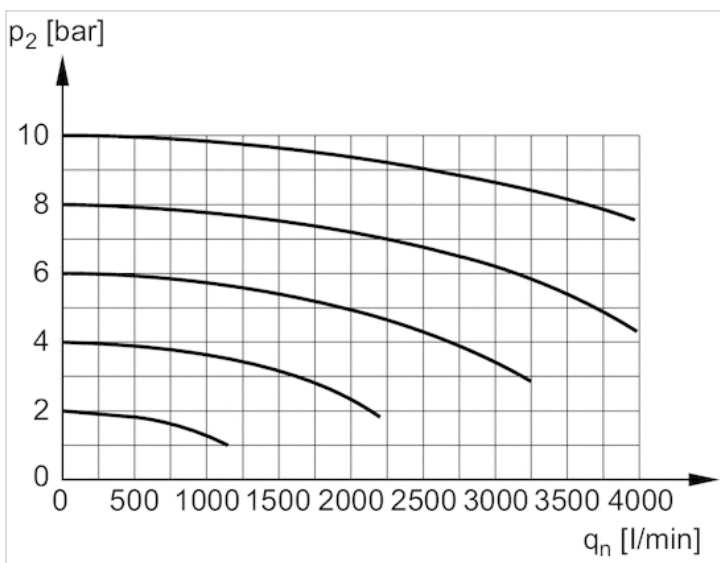
p_2 = secondary pressure

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

Change-over pressure individually adjustable via electrical signal

1) Switching point: adjustable filling time and change-over pressure

Flow rate characteristic

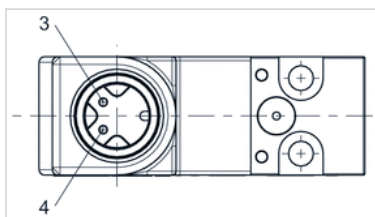


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

Pin assignment M12x1

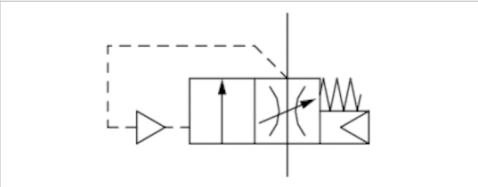


3: +/-

4: +/-

Filling valve, Series AS2-SSV

- adjustable filling time
- Compressed air connection G 1/4, G 3/8
- suitable for ATEX



Version	Poppet valve, Can be assembled into blocks
Sealing principle	Soft sealing
Working pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	40 µm
Weight	0.448 lbs

Technical data

Part No.	Port	Flow	
		Qn	
R412006272	G 1/4	2.03 Cv	1)
R412006275	G 1/4	2.03 Cv	2)
R412006273	G 3/8	2.03 Cv	1)

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

- 1) Suitable for use in Ex zones 1, 2, 21, 22
- 2) With adjustment screw lock, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

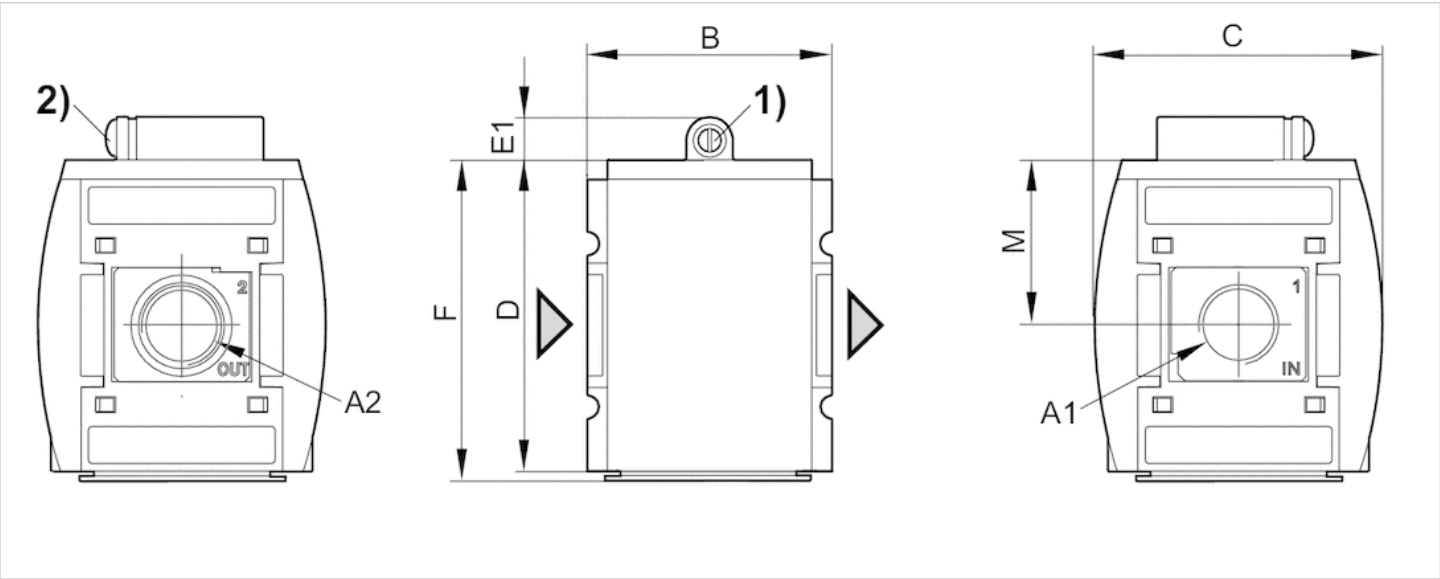
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Dimensions



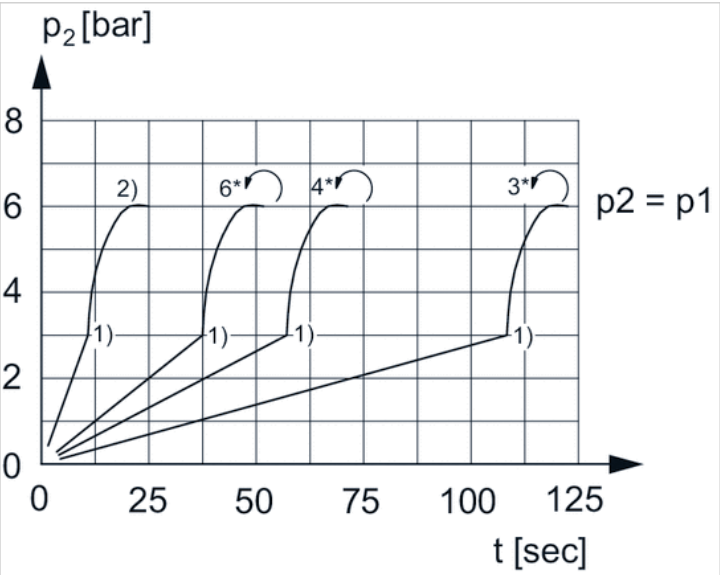
- A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock

Dimensions in mm

A1	A2	B	C	D	E1	F	M
G 1/4	G 1/4	52	59	65	11	67	34
G 3/8	G 3/8	52	59	65	11	67	34

Diagrams

Secondary pressure while filling



p1 = working pressure

p_2 = secondary pressure

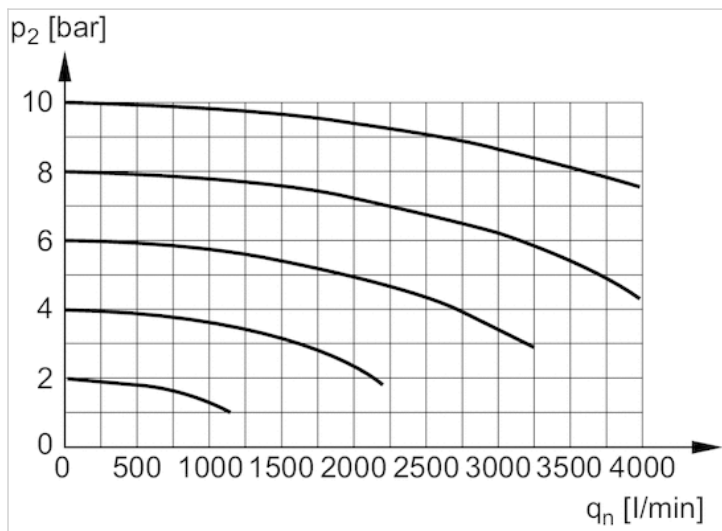
t = filling time, adjustable via adjustment screw (throttle)

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

2) Throttle fully opened

* Adjustment screw rotations

Flow rate characteristic



p_2 = secondary pressure

q_n = nominal flow

Filling valve, pneumatically operated, Series AS2-SSV

- adjustable filling time and change-over pressure
- Compressed air connection G 1/4, G 3/8
- Pipe connection



Version

Sealing principle

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Weight

Poppet valve, Can be assembled into blocks

Soft sealing

15 ... 232 psi

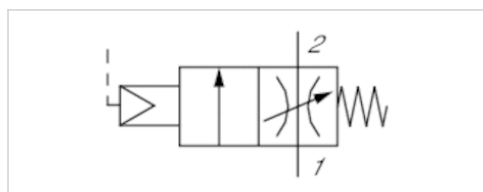
32 ... 122 °F

32 ... 122 °F

Compressed air, Neutral gases

40 µm

0.448 lbs



Technical data

Part No.	Port	Pilot connection	Flow
			Qn 1→2
R412006311	G 1/4	G 1/8	1.93 Cv
R412006312	G 3/8	G 1/8	1.93 Cv

Nominal flow with secondary pressure 91.35 psi at $\Delta p = 14.5$ psi

Technical information

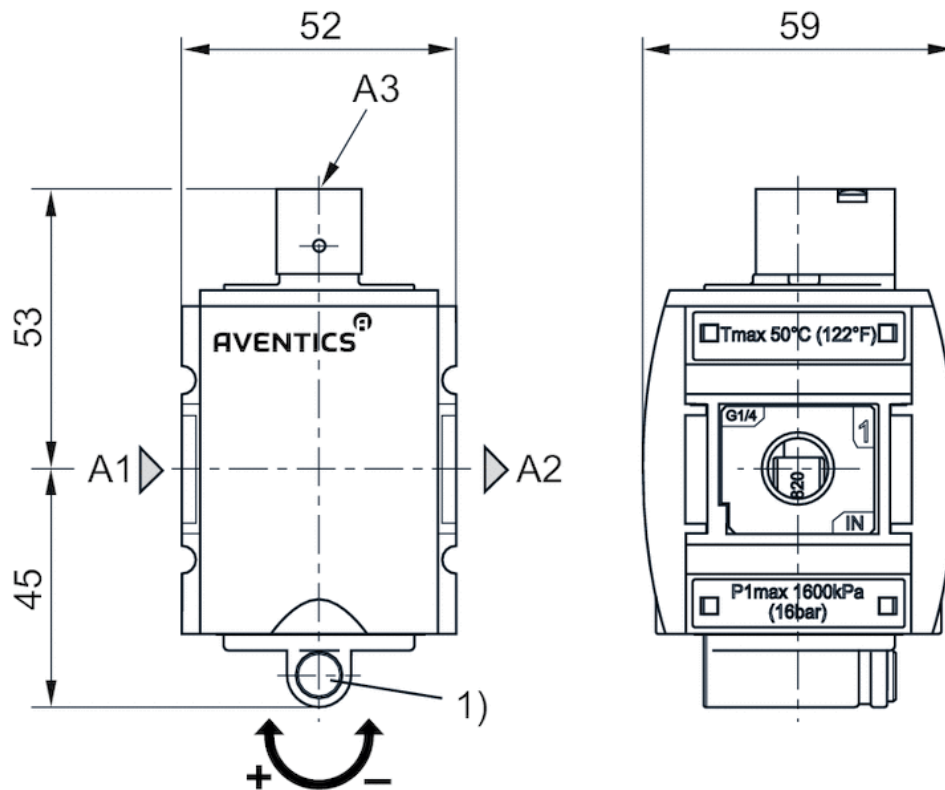
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Dimensions



A1 = input

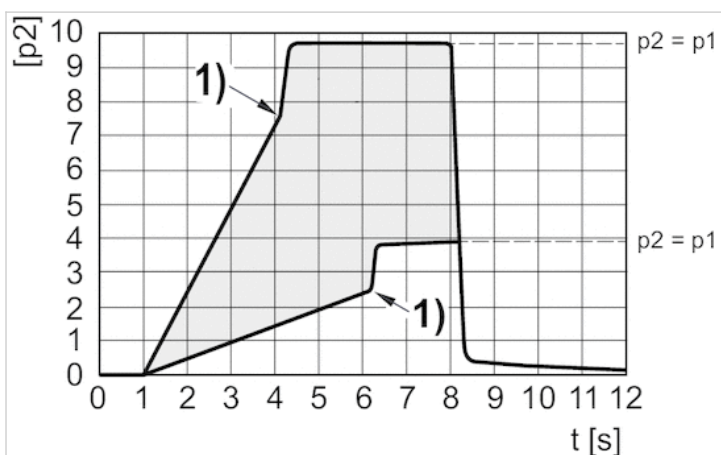
A2 = output

A3 = control pressure connection

1) Adjustment screw for filling time

Diagrams

secondary pressure while filling



p_1 = working pressure

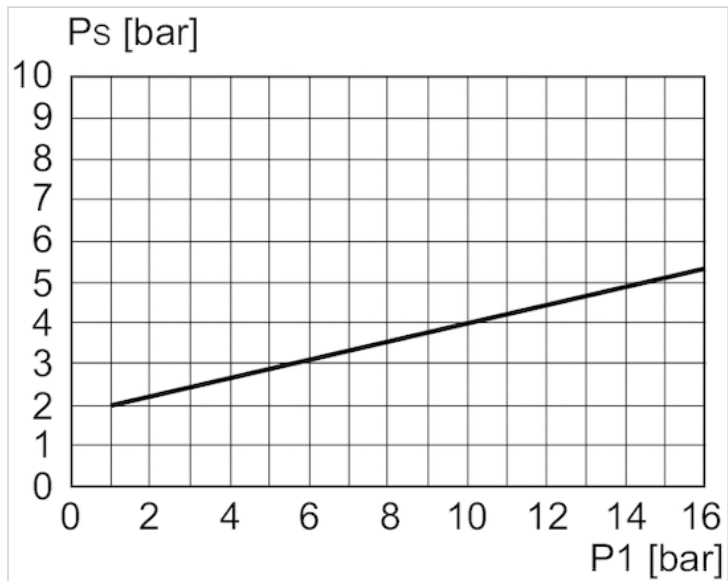
p_2 = secondary pressure

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

Change-over pressure individually adjustable via pneumatic signal

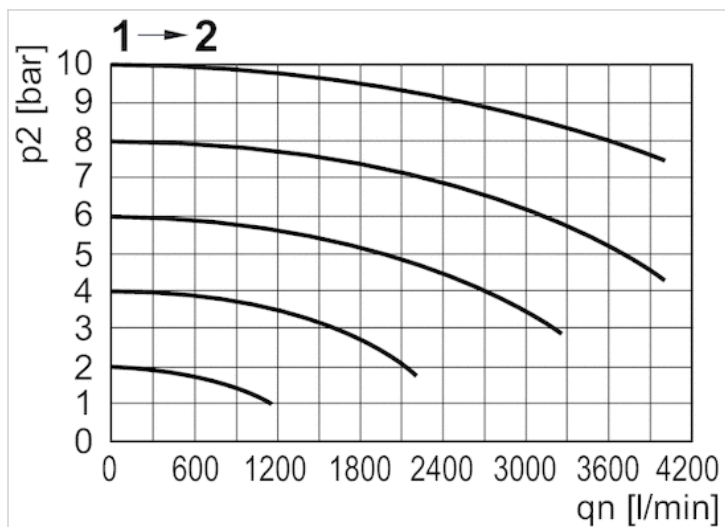
1) Switching point: adjustable filling time and change-over pressure

control pressure characteristic



p_1 = working pressure
 PS = control pressure

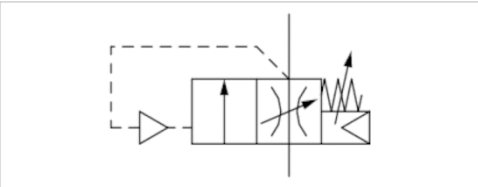
Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

Filling valve, mechanically adjustable, series AS2-SSV

- adjustable filling time and change-over pressure
- Compressed air connection G 1/4



Version	Poppet valve, Can be assembled into blocks
Sealing principle	Soft sealing
Working pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	40 µm
Weight	0.448 lbs

Technical data

Part No.	Port	Exhaust	Flow
			Qn
R412006245	G 1/4	G 3/8	2.03 Cv
R412006246	G 3/8	G 3/8	2.03 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Technical information

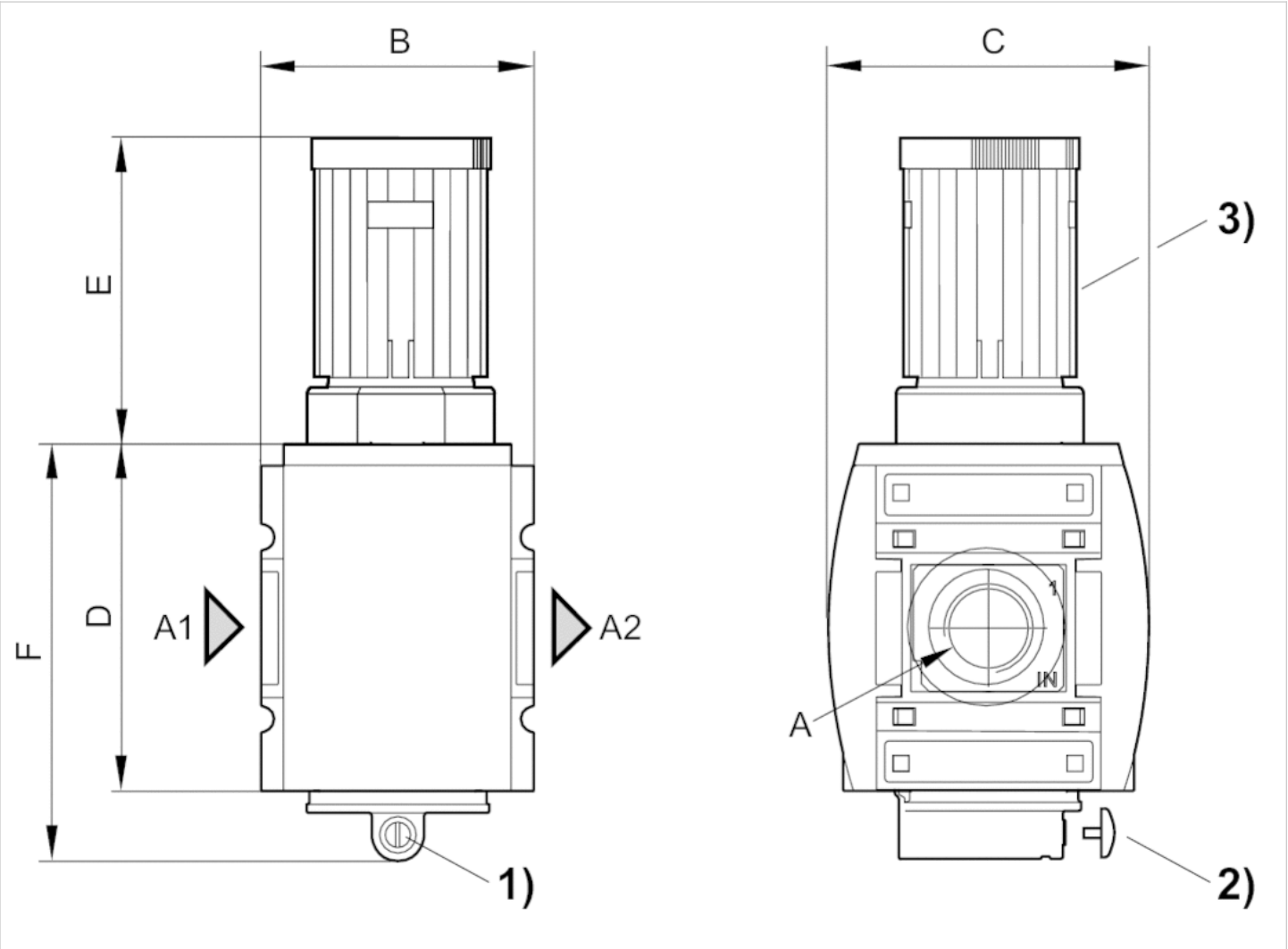
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Dimensions



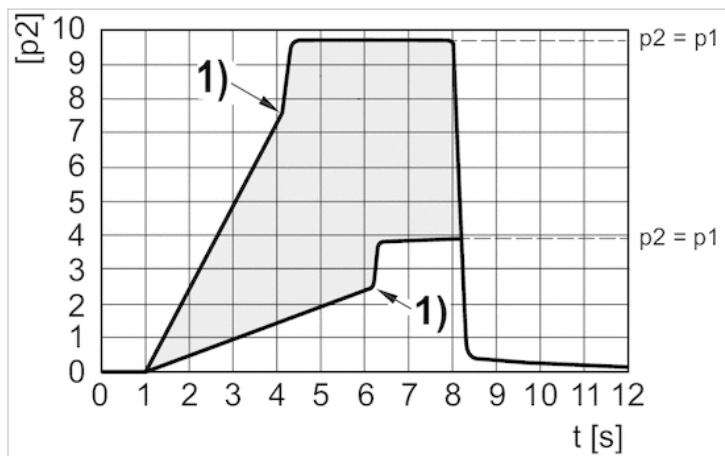
- A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock
3) handwheel for change-over pressure

Dimensions in mm

A1	A2	B	C	D	E	F
G 1/4	G 1/4	52	59	65	57.9	79
G 3/8	G 3/8	52	59	65	57.9	79

Diagrams

Secondary pressure while filling



p_1 = working pressure

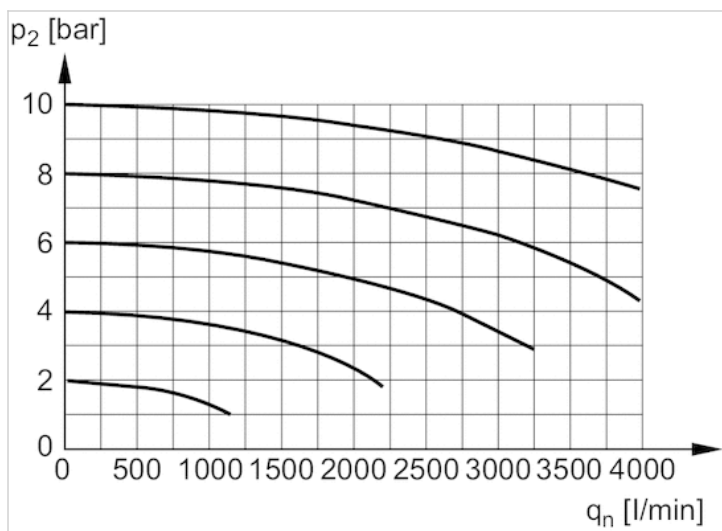
p_2 = secondary pressure

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



p_2 = secondary pressure

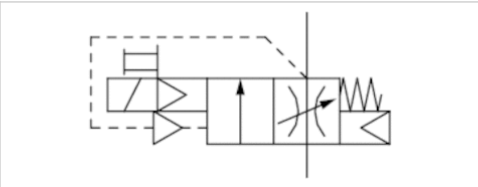
q_n = nominal flow

Filling valve, electrically operated, series AS2-SSV

- adjustable filling time and change-over pressure
- Compressed air connection G 1/4



Version	Poppet valve with elect. priority circuit, Can be assembled into blocks
Sealing principle	Soft sealing
Working pressure min./max.	37 ... 145 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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	0.448 lbs



Technical data

Part No.	Port	Flow
		Qn
R412006379	G 1/4	2.03 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi, Electr. connection: valve plug connector M12x1

Technical information

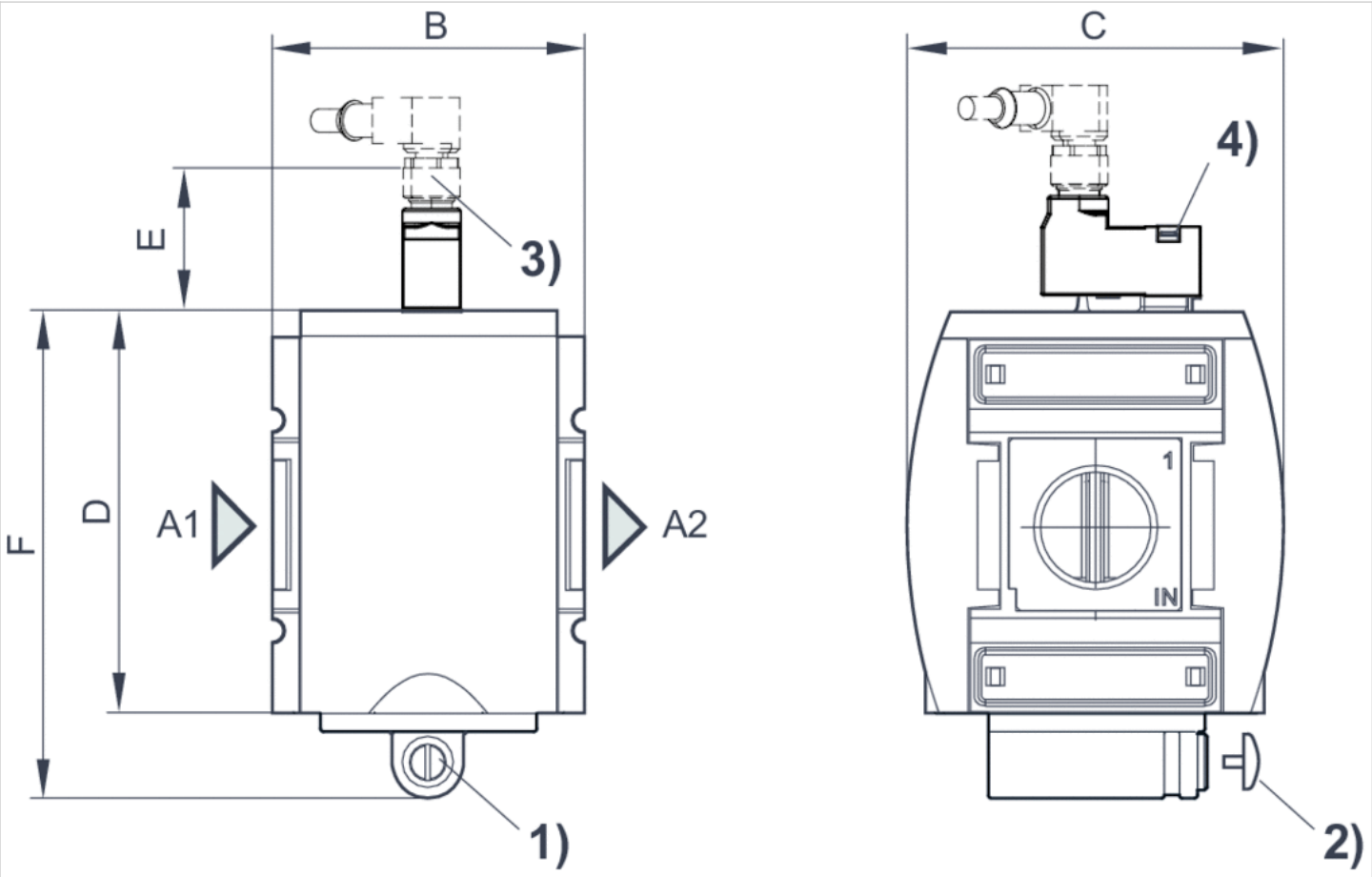
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

Dimensions

Dimensions



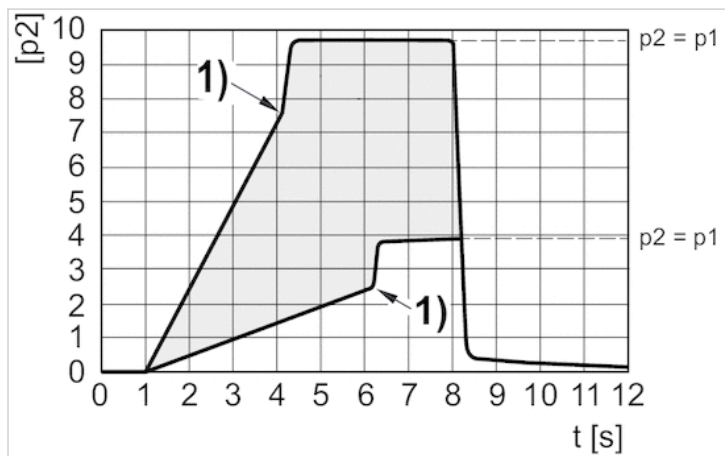
- A1 = input
A2 = output
1) Adjustment screw for filling time
2) Adjustment screw lock
3) plug M12
4) Manual override

Dimensions in mm

A1	A2	B	C	D	E	F
G 1/4	G 1/4	52	59	65	39	79

Diagrams

Secondary pressure while filling



p_1 = working pressure

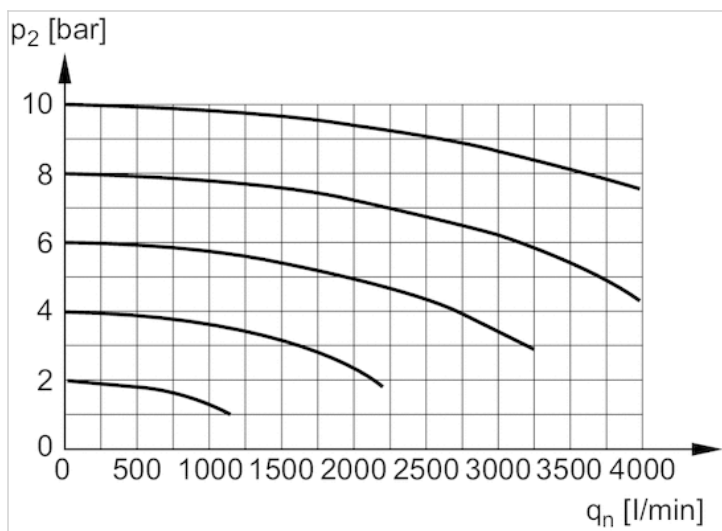
p_2 = secondary pressure

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

Change-over pressure individually adjustable via electrical signal

1) Switching point: adjustable filling time and change-over pressure

Flow rate characteristic

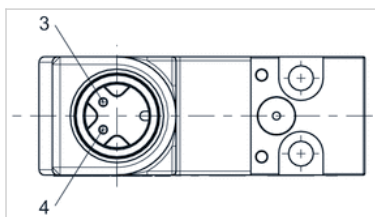


p_2 = secondary pressure

q_n = nominal flow

Pin assignments

Pin assignment M12x1

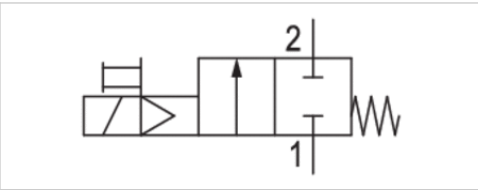


3: +/-

4: +/-

2/2-directional valve, electrically operated, Series AS2-SOV

- Compressed air connection G 3/8
- Pipe connection
- NC
- Electrical connection: Plug, ISO 15217, form C



Version	Poppet valve, Can be assembled into blocks
Parts	2/2-directional valve, electrically operated
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 122 °F
Ambient temperature min./max.	14 ... 122 °F
Sealing principle	Soft sealing
Max. particle size	25 µm
Protection class acc. to DIN EN 61140,with plug	IP65
Duty cycle	100 %
Weight	0.642 lbs

Technical data

Part No.		Compressed air connection input	Compressed air connection output	Operational voltage
R412006294		G 3/8	G 3/8	DC
				24 V

Part No.	Power consumption	Electrical connection	basic valve with electrical connector
	DC	Pilot valve	
R412006294	2 W	Plug, ISO 15217, form C	Basic valve with pilot valve

Part No.	Reverse polarity protection
R412006294	Protected against polarity reversal

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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.

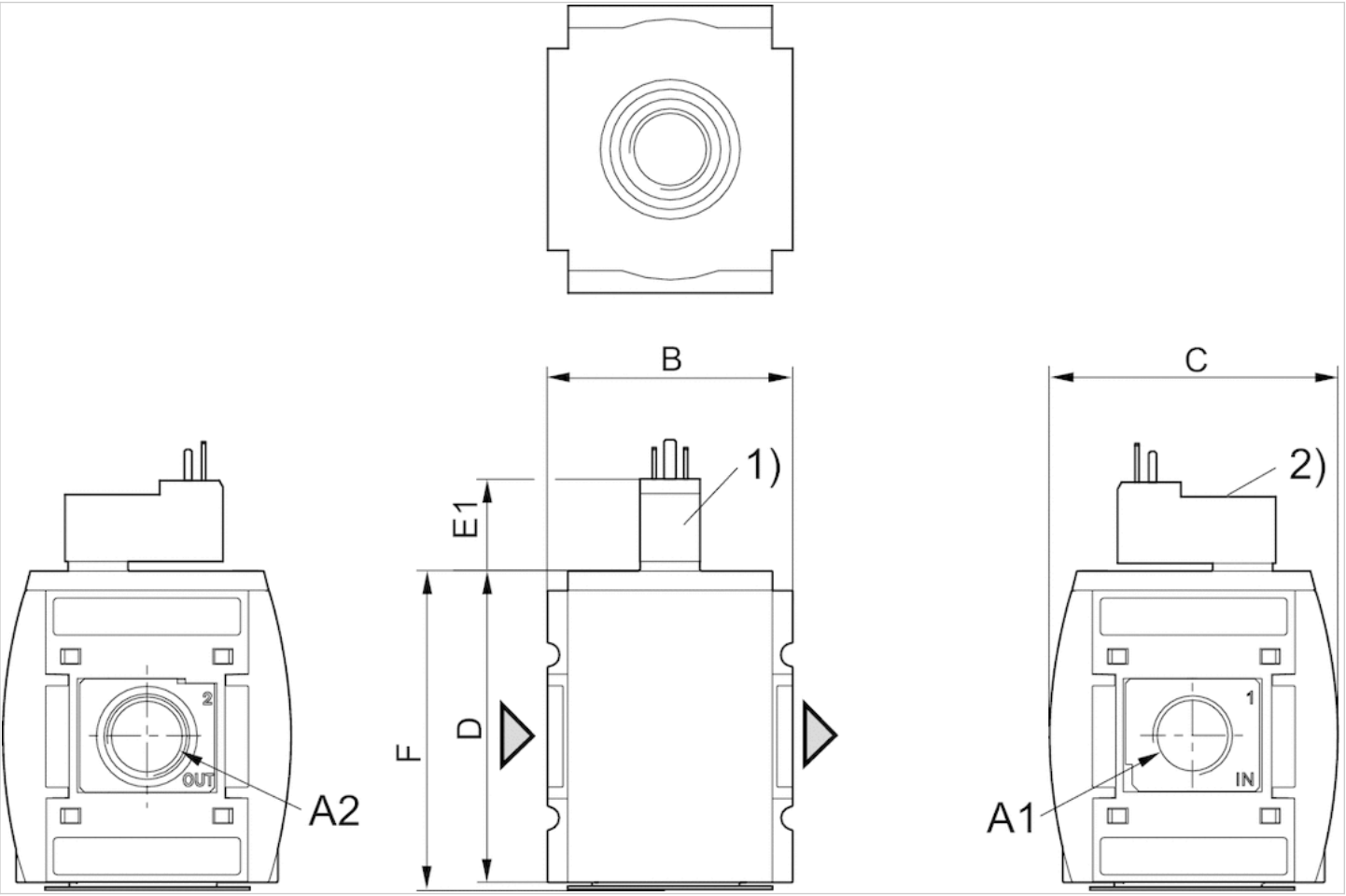
Technical information

Material

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

Dimensions

Dimensions



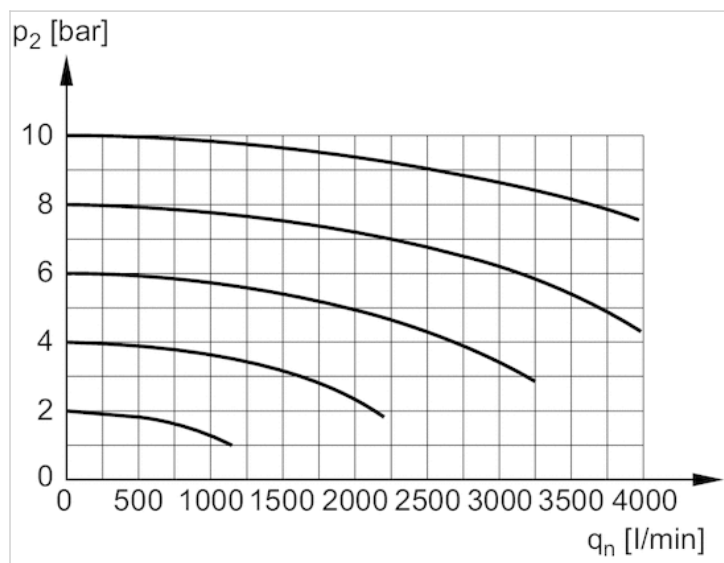
- A1 = input
 A2 = output
 1) Connection for valve plug connector according to ISO 15217 (form C)
 2) Manual override

Dimensions in mm

A1	A2	B	C	D	E1	F
G 3/8	G 3/8	52	59	65	22	67

Diagrams

Flow rate characteristic



p2 = secondary pressure

qn = nominal flow

3/2-directional valve, electrically operated, Series AS2-SOV

- Compressed air connection G 1/4, G 3/8
- Pipe connection
- ATEX optional



Version

Parts

Nominal flow

Nominal flow 1 ▶ 2

Nominal flow 2 ▶ 3

Working pressure min./max.

Medium

Medium temperature min./max.

Ambient temperature min./max.

Sealing principle

Max. particle size

Protection class acc. to DIN EN 61140, with plug

Weight

Poppet valve, Can be assembled into blocks

3/2-directional valve, electrically operated

See table below

2.03 Cv

0.386 Cv

37 ... 145 psi

Compressed air, Neutral gases

14 ... 122 °F

14 ... 122 °F

Soft sealing

25 µm

See table below

0.483 lbs

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
R412006264		—	G 1/4	G 1/4	G 1/4
R412006268		—	G 3/8	G 3/8	G 1/4
R412006258		—	G 1/4	G 1/4	G 1/4
R412006259		—	G 3/8	G 3/8	G 1/4
R412006265			G 1/4	G 1/4	G 1/4
R412006266			G 1/4	G 1/4	G 1/4
R412006267			G 1/4	G 1/4	G 1/4
R412006269			G 3/8	G 3/8	G 1/4
R412006270			G 3/8	G 3/8	G 1/4
R412006271			G 3/8	G 3/8	G 1/4
R412006380			G 1/4	G 1/4	G 1/4
R412006381			G 3/8	G 3/8	G 1/4

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006264	-	-	-
R412006268	-	-	-
R412006258	-	-	-
R412006259	-	-	-
R412006265	24 V	-	-
R412006266	-	110 V	110 V
R412006267	-	220 V	230 V
R412006269	24 V	-	-

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
R412006270	-	110 V	110 V
R412006271	-	220 V	230 V
R412006380	24 V	-	-
R412006381	24 V	-	-

Part No.	Power consumption	Holding power	Holding power	Switch-on power
	DC	AC 50 Hz	AC 60 Hz	AC 50 Hz
R412006264	-	-	-	-
R412006268	-	-	-	-
R412006258	-	-	-	-
R412006259	-	-	-	-
R412006265	2 W	-	-	-
R412006266	-	1.6 VA	1.4 VA	2.2 VA
R412006267	-	1.6 VA	1.4 VA	2.2 VA
R412006269	2 W	-	-	-
R412006270	-	1.6 VA	1.4 VA	2.2 VA
R412006271	-	1.6 VA	1.4 VA	2.2 VA
R412006380	2 W	-	-	-
R412006381	2 W	-	-	-

Part No.	Switch-on power	Flow	Protection class	Electrical connection	Connector standard
	AC 60 Hz	Qn		Pilot valve	
R412006264	-	2.03 Cv	-	-	-
R412006268	-	2.03 Cv	-	-	-
R412006258	-	2.03 Cv	-	-	-
R412006259	-	2.03 Cv	-	-	-
R412006265	-	2.03 Cv	IP65	Plug, ISO 15217, form C	ISO 15217
R412006266	1.6 VA	2.03 Cv	IP65	Plug, ISO 15217, form C	ISO 15217
R412006267	1.6 VA	2.03 Cv	IP65	Plug, ISO 15217, form C	ISO 15217
R412006269	-	2.03 Cv	IP65	Plug, ISO 15217, form C	ISO 15217
R412006270	1.6 VA	2.03 Cv	IP65	Plug, ISO 15217, form C	ISO 15217
R412006271	1.6 VA	2.03 Cv	IP65	Plug, ISO 15217, form C	ISO 15217
R412006380	-	2.03 Cv	IP65	Plug, M12x1	-
R412006381	-	-	IP65	Plug, M12x1	-

Part No.	basic valve with electrical connector
R412006264	Basic valve without pilot valve
R412006268	Basic valve without pilot valve
R412006258	Basic valve without pilot valve, with CNOMO subbase
R412006259	Basic valve without pilot valve, with CNOMO subbase
R412006265	Basic valve with pilot valve
R412006266	Basic valve with pilot valve
R412006267	Basic valve with pilot valve
R412006269	Basic valve with pilot valve
R412006270	Basic valve with pilot valve
R412006271	Basic valve with pilot valve
R412006380	Basic valve with pilot valve

Part No.	basic valve with electrical connector
R412006381	Basic valve with pilot valve

Part No.	Reverse polarity protection	Fig.	
R412006264	-	Fig. 1	1)
R412006268	-	Fig. 1	1)
R412006258	-	Fig. 2	1)
R412006259	-	Fig. 2	1)
R412006265	Protected against polarity reversal	Fig. 3	-
R412006266	Protected against polarity reversal	Fig. 3	-
R412006267	Protected against polarity reversal	Fig. 3	-
R412006269	Protected against polarity reversal	Fig. 3	-
R412006270	Protected against polarity reversal	Fig. 3	-
R412006271	Protected against polarity reversal	Fig. 3	-
R412006380	-	Fig. 4	-
R412006381	-	Fig. 4	-

Nominal flow Q_n with secondary pressure p₂ = 87 psi at Δp = 14.5 psi

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

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

ATEX optional: The ATEX ID depends on the selected pilot valve.

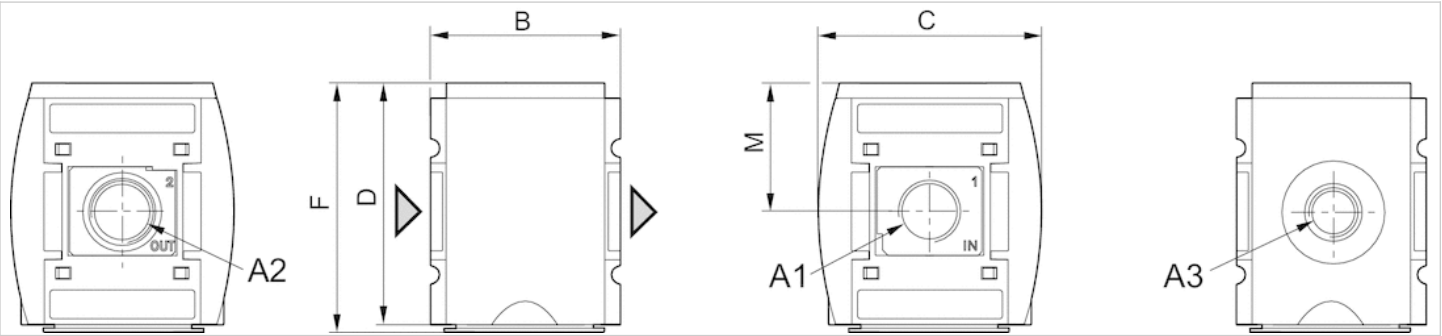
A short silencer is required for wall mounting (see accessories e.g. R412004817).

Technical information

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

Dimensions

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



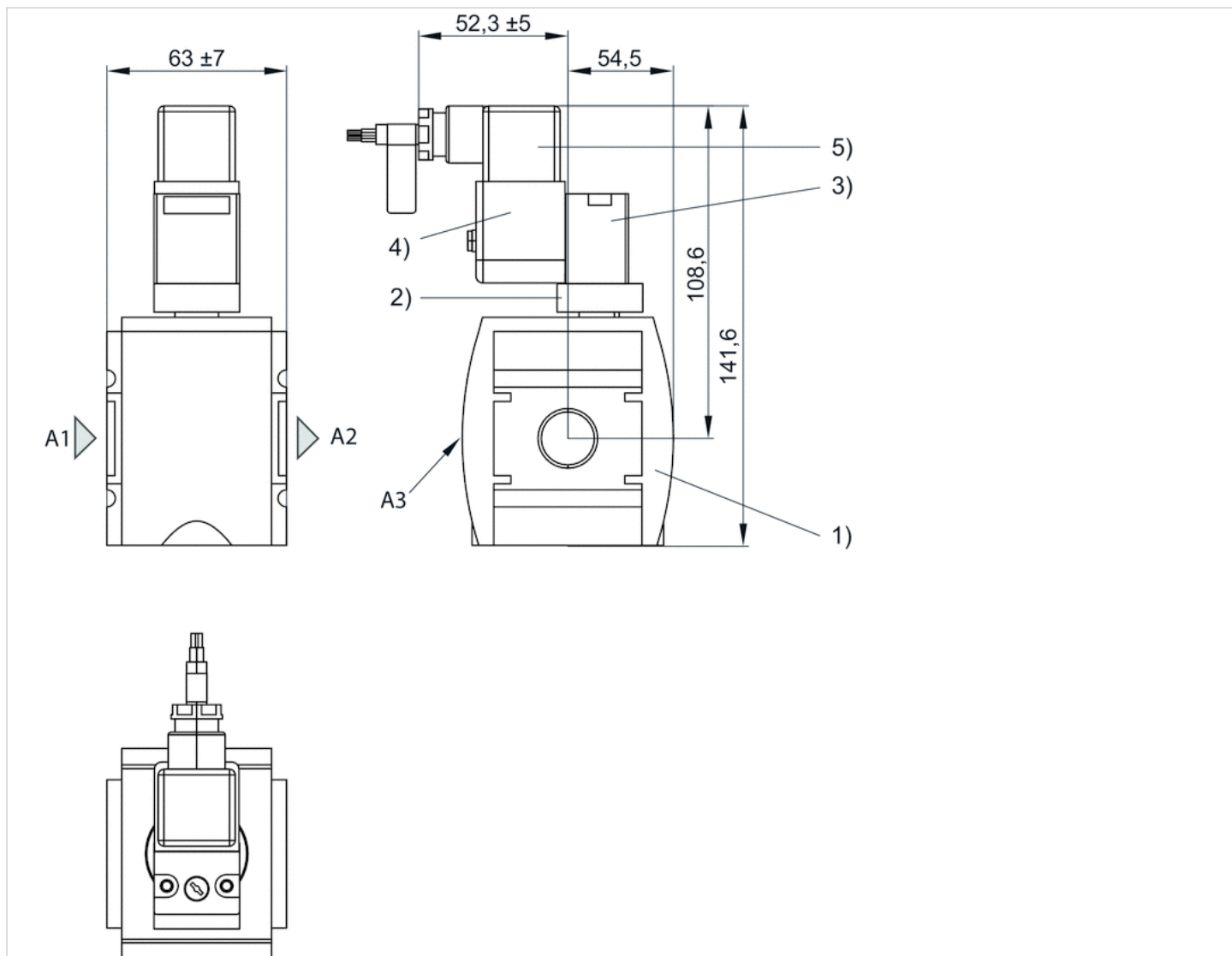
A1 = input
A2 = output
A3 = ventilation port

Dimensions in mm

A1	A2	A3	B	C	D	F	M
G 1/4	G 1/4	G 1/4	52	59	65	67	34
G 3/8	G 3/8	G 1/4	52	59	65	67	34

Dimensions

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



A1 = input

A2 = output

A3 = ventilation port

1) Shut-off valve

2) Transition plate

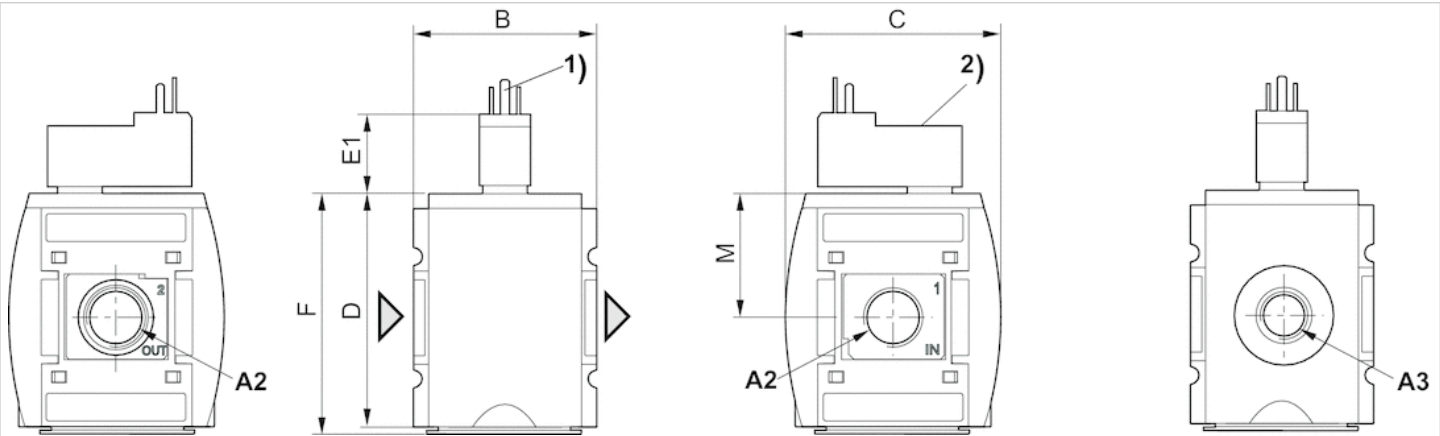
3) Pilot valve

4) Coil

5) Electrical connector

See accessories for pilot valve and coil

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



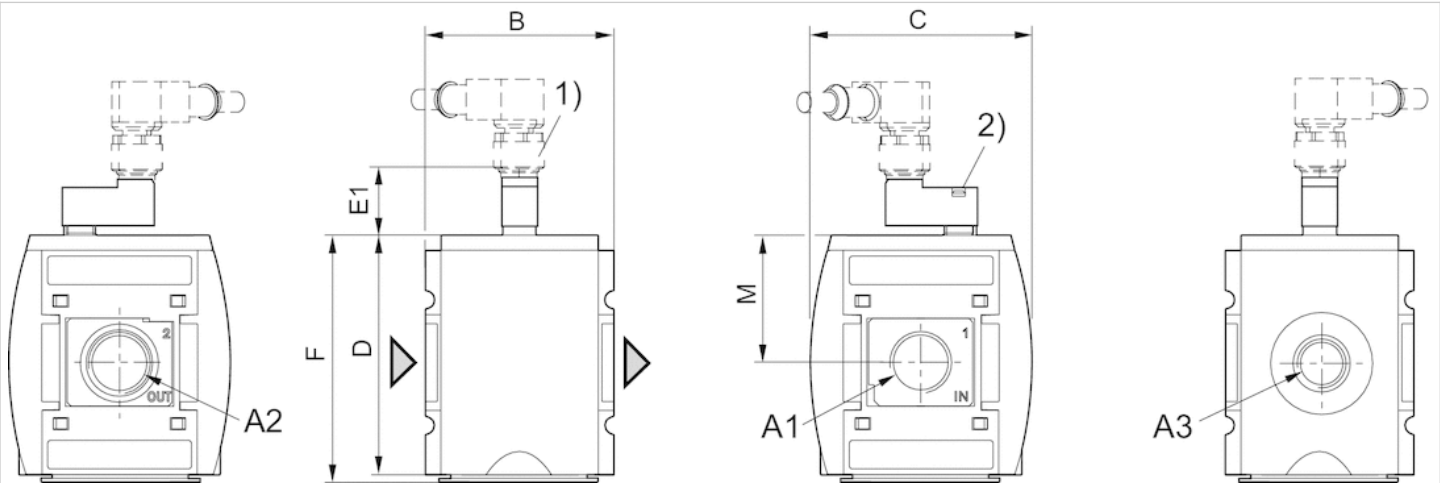
- A1 = input
A2 = output
A3 = ventilation port
1) For valve plug connectors according to ISO 15217 (form C)
2) Manual override

Dimensions in mm

A1	G 1/4	A3	B	C	D	F	M
G 1/4	G 1/4	G 1/4	52	59	65	67	34
G 3/8	G 3/8	G 1/4	52	59	65	67	34

Dimensions

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



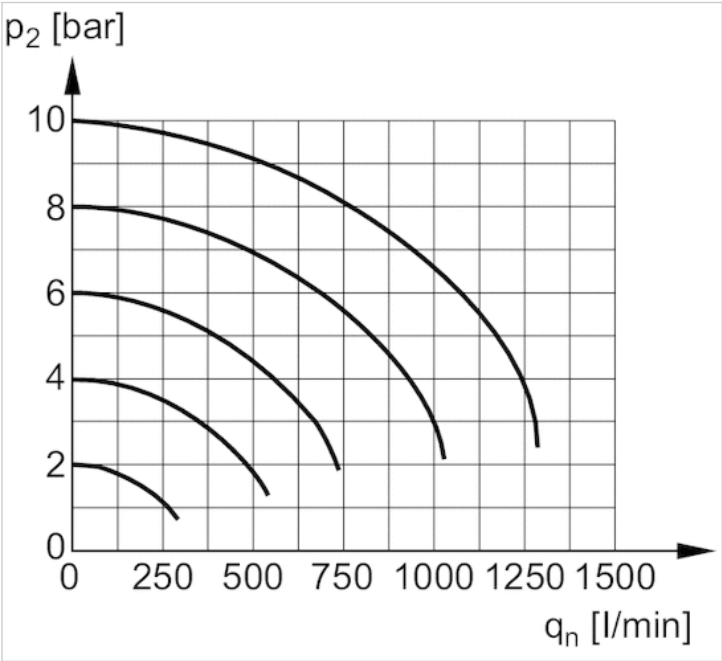
- A1 = input
A2 = output
A3 = ventilation port
1) plug M12
2) Manual override

Dimensions in mm

A1	A2	A3	B	C	D	E1	F	M
G 1/4	G 1/4	G 1/4	52	59	65	39	67	34
G 3/8	G 3/8	G 1/4	52	59	65	39	67	34

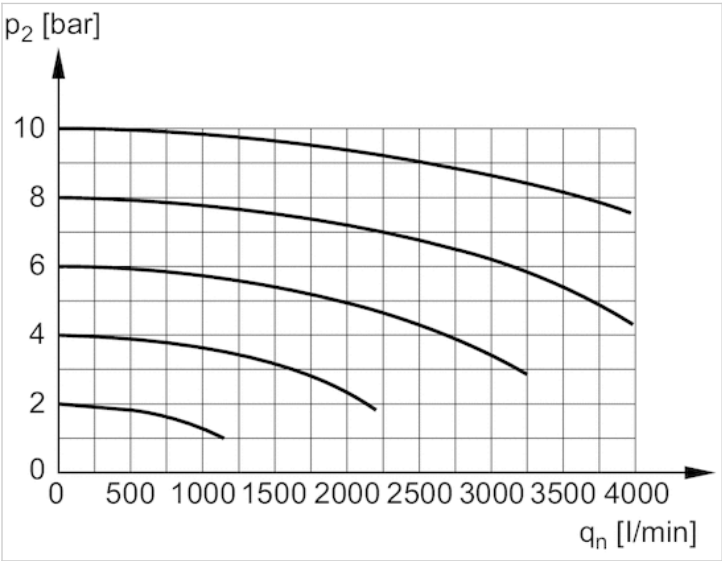
Diagrams

Rear exhaust



p_2 = secondary pressure
 q_n = nominal flow

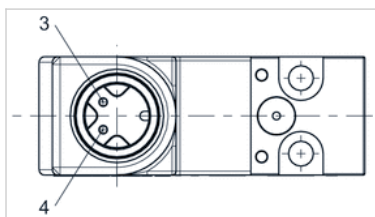
Flow rate characteristic



p_2 = secondary pressure
 q_n = nominal flow

Pin assignments

Pin assignment M12x1



3: +/-

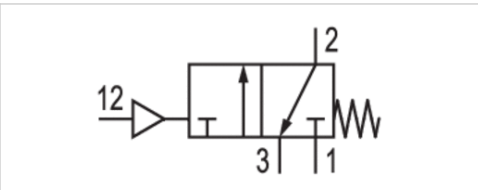
4: +/-

3/2-directional valve, pneumatically operated, Series AS2-SOV

- Compressed air connection G 1/4, G 3/8
- Pipe connection
- suitable for ATEX



Version	Poppet valve, Can be assembled into blocks
Sealing principle	Soft sealing
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Control pressure min./max.	37 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	0.483 lbs



Technical data

Part No.	Port	Pilot connection	Exhaust	Flow	Flow	Flow
				Qn	Qn 1►2	Qn 2►3
R412006262	G 1/4	G 1/8	G 1/4	2.03 Cv	2.03 Cv	0.386 Cv
R412006263	G 3/8	G 1/8	G 1/4	2.03 Cv	2.03 Cv	0.386 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

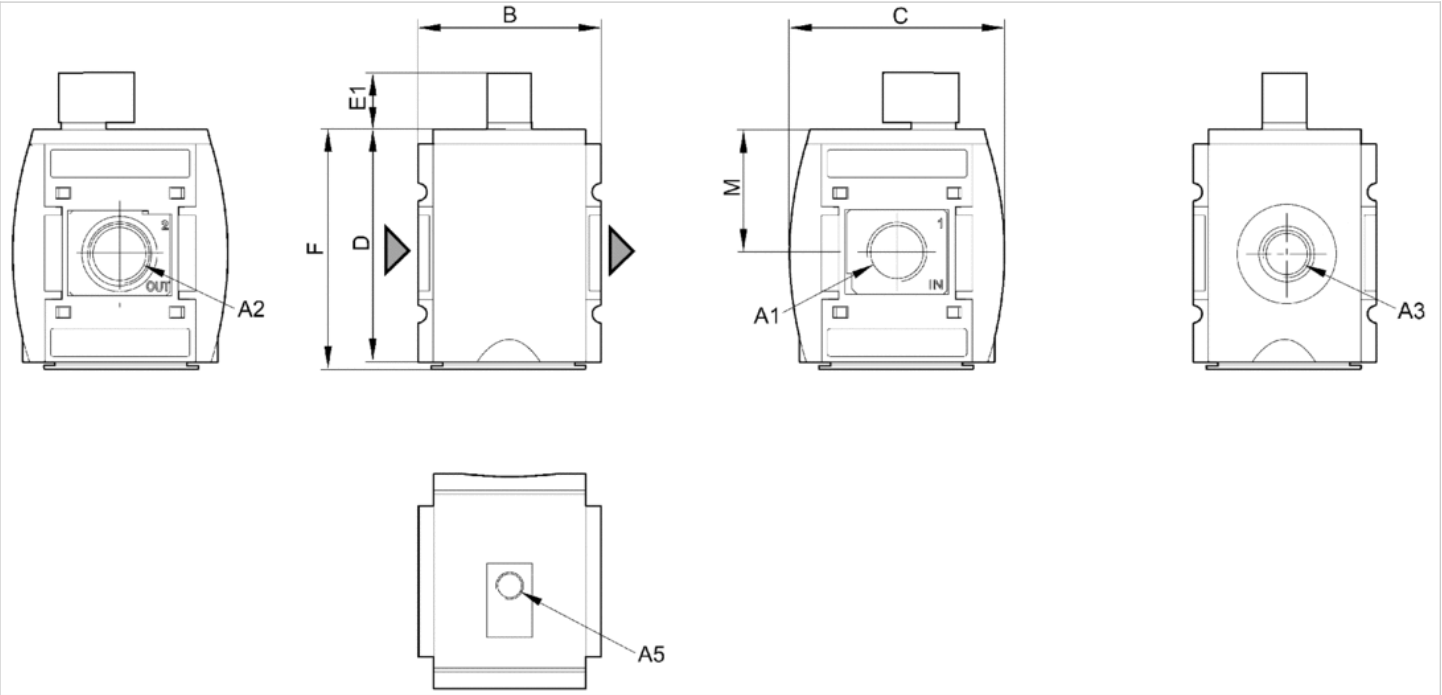
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Dimensions



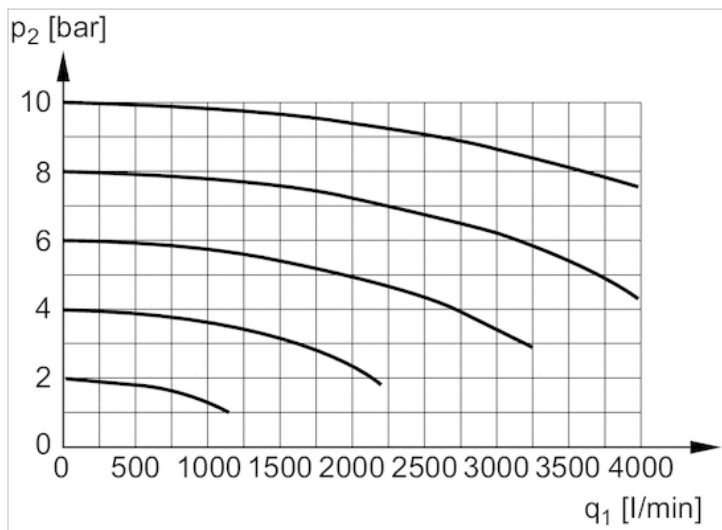
- A1 = input
- A2 = output
- A3 = ventilation port
- A5 = control pressure connection

Dimensions in mm

A1	A2	A3	A5	B	C	D	E1	F	M
G 1/4	G 1/4	G 1/4	G 1/8	52	59	65	17	67	34
G 3/8	G 3/8	G 1/4	G 1/8	52	59	65	17	67	34

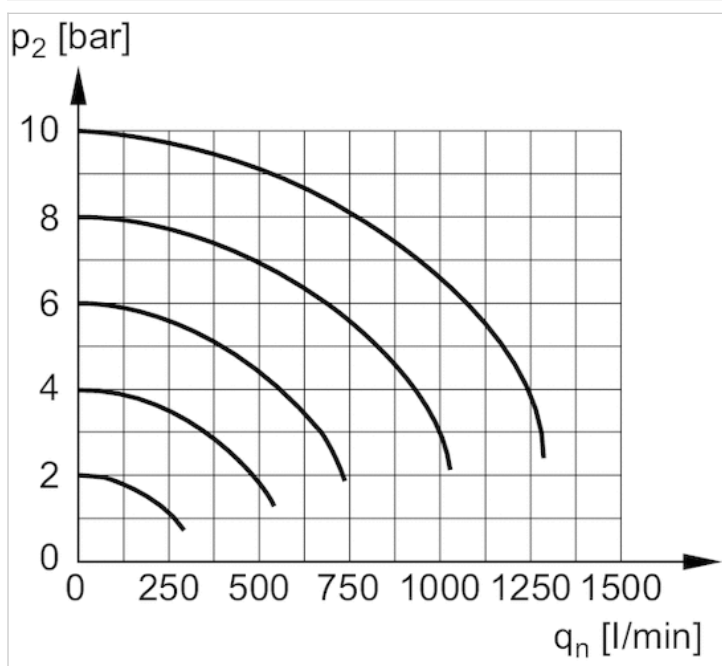
Diagrams

Flow rate characteristic



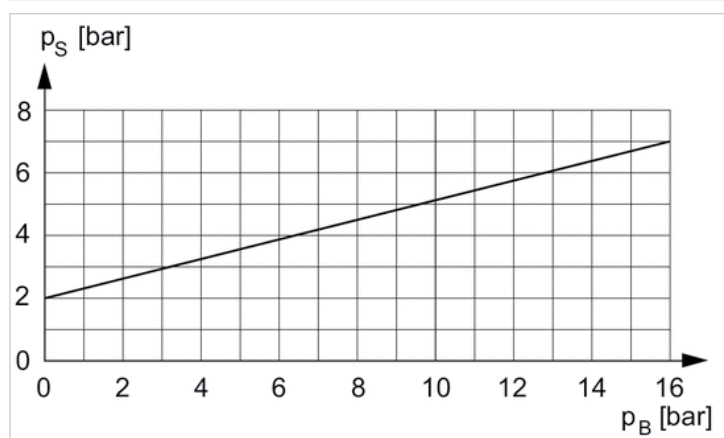
p₂ = secondary pressure
q_n = nominal flow

Rear exhaust



p₂ = secondary pressure
q_n = nominal flow

control pressure characteristic



minimum pilot pressure depending on working pressure

PS = control pressure

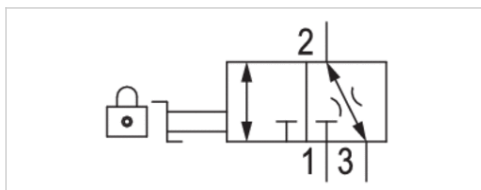
P= Working pressure

3/2-shut-off valve, mechanically operated, Series AS2-BAV

- G 1/4, G 3/8
- lockable
- for padlocks
- suitable for ATEX



Version	Poppet valve
Activation	Mechanical
Lock type	lockable
Actuating element	rotary switch
Sealing principle	Soft sealing
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Max. particle size	25 µm
Weight	0.454 lbs



Technical data

Part No.	Compressed air connection	
	Input	Output
R412006260	G 1/4	G 1/4
R412006256	G 1/4	G 1/4
R412006261	G 3/8	G 3/8
R412006257	G 3/8	G 3/8

Part No.	Compressed air connection	Flow	Flow	Lock type
	Exhaust	Qn 1 ► 2	Qn 2 ► 3	
R412006260	G 1/4	2.03 Cv	0.386 Cv	for padlocks
R412006256	G 1/4	2.03 Cv	0.386 Cv	for padlocks
R412006261	G 1/4	2.03 Cv	0.386 Cv	for padlocks
R412006257	G 1/4	2.03 Cv	0.386 Cv	for padlocks

Part No.	Locking base
R412006260	Polyoxymethylene
R412006256	Steel, galvanized
R412006261	Polyoxymethylene
R412006257	Steel, galvanized

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

Technical information

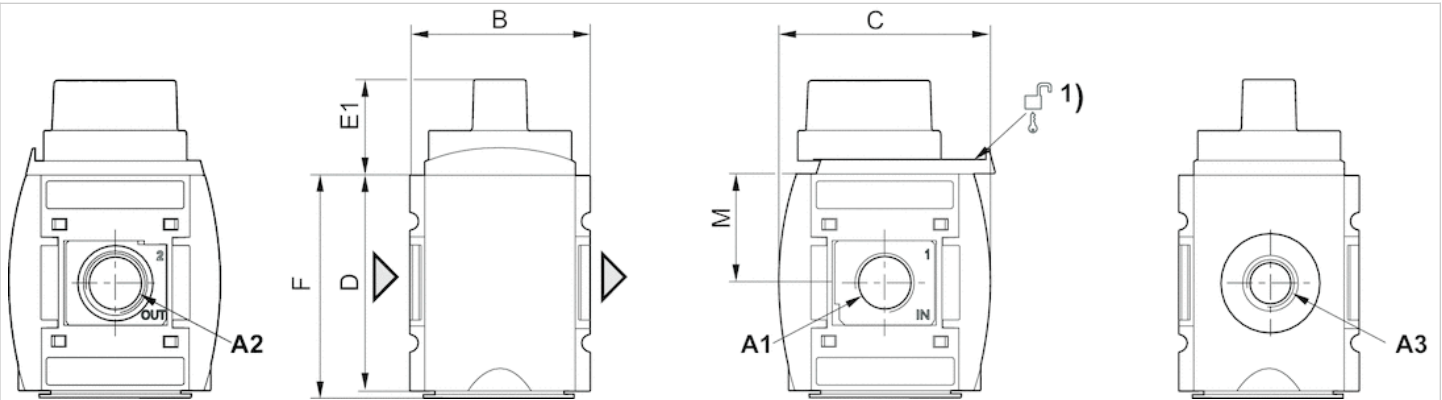
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
 A short silencer is required for wall mounting (see accessories e.g. R412004817).
 Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Housing	Polyamide
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Threaded bushing	Die cast zinc
Actuating element	Polyoxymethylene
Locking base	Polyoxymethylene, Steel, galvanized

Dimensions

Dimensions



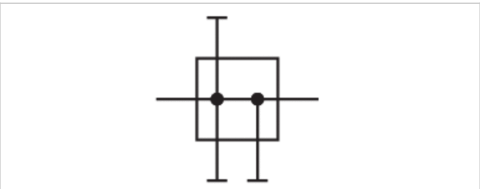
A1 = input
 A2 = output
 A3 = ventilation port
 1) Mounting option for padlocks, max. shackle Ø 8

Dimensions in mm

A2	A3	B	C	D	E1	F	M
G 1/4	G 1/4	52	59	65	20.5	67	34
G 3/8	G 1/4	52	59	65	20.5	67	34

Distributor, Series AS2-DIS

- G 1/4, G 3/8
- Distributor 3x
- suitable for ATEX



Version	Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	0.551 lbs

Technical data

Part No.	Port	Nominal flow	Nominal flow	Nominal flow	Nominal flow
		Qn 1►2	Qn 1►3	Qn 1►4	Qn 1►5
R412006250	G 1/4	2.74 Cv	2.03 Cv	0.915 Cv	2.03 Cv
R412006251	G 3/8	3.66 Cv	2.03 Cv	0.915 Cv	2.03 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

Technical information

Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)

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

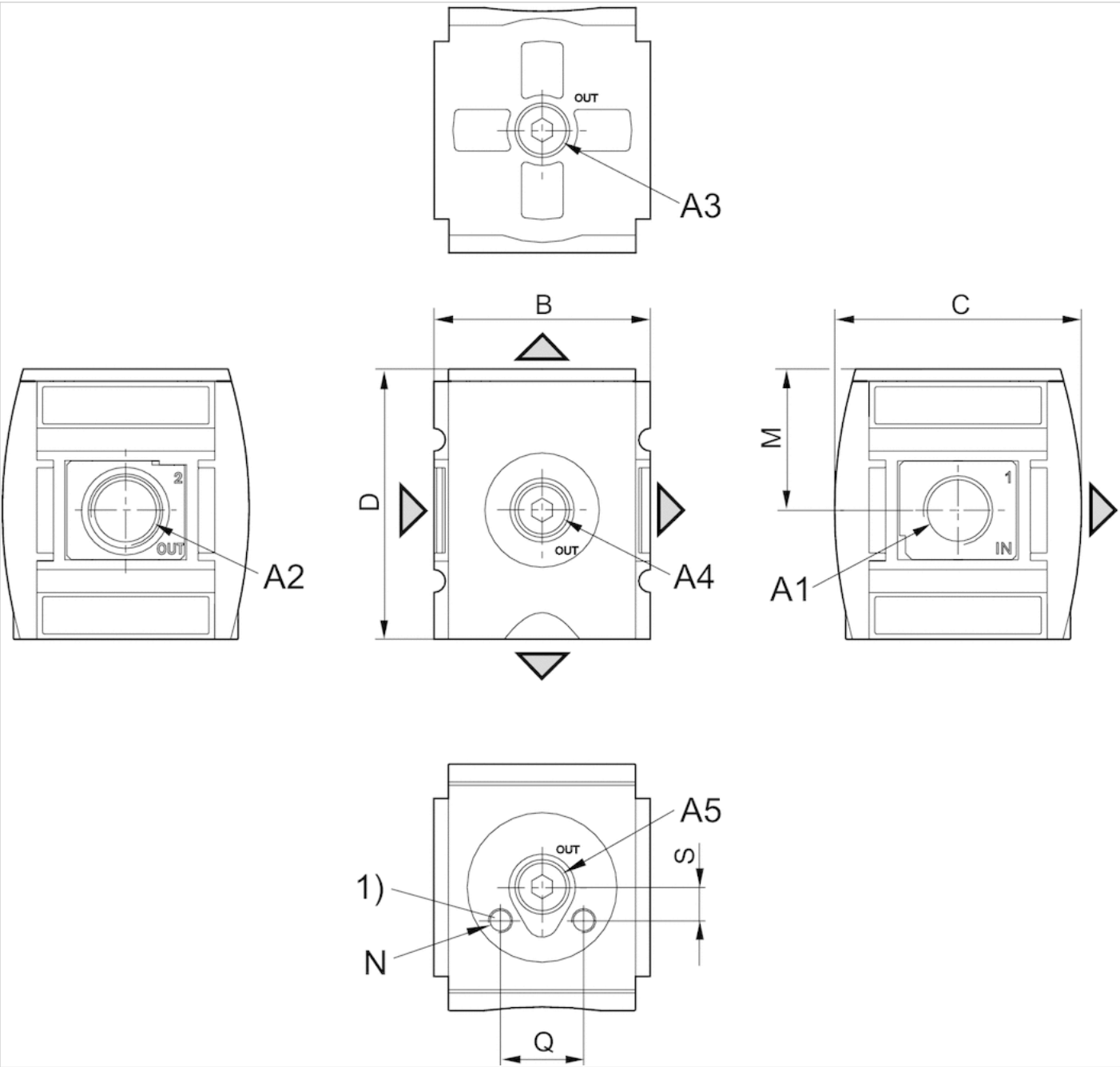
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

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
- 1) Mounting thread for pressure sensor

Dimensions in mm

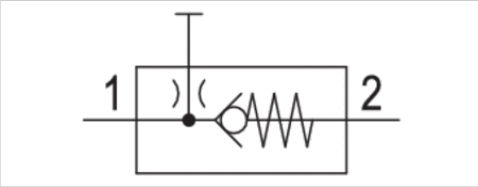
A1	A2	A3	A4	A5	B	C	D	M	N	Q	S
G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	52	59	65	34	M5	20	8
G 3/8	G 3/8	G 1/4	G 1/4	G 1/4	52	59	65	34	M5	20	8

Distributor, Series AS2-DIN

- G 1/4, G 3/8
- Distributor 1x
- Non-return valve
- suitable for ATEX



Version	Non-return valve, Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	6 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	0.551 lbs



Technical data

Part No.	Port	Nominal flow	Nominal flow
		Qn 1→2	Qn 1→6
R412006254	G 1/4	1.27 Cv	0.711 Cv
R412006255	G 3/8	1.27 Cv	0.711 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

Technical information

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

1 auxiliary air exit upstream of non-return valve.

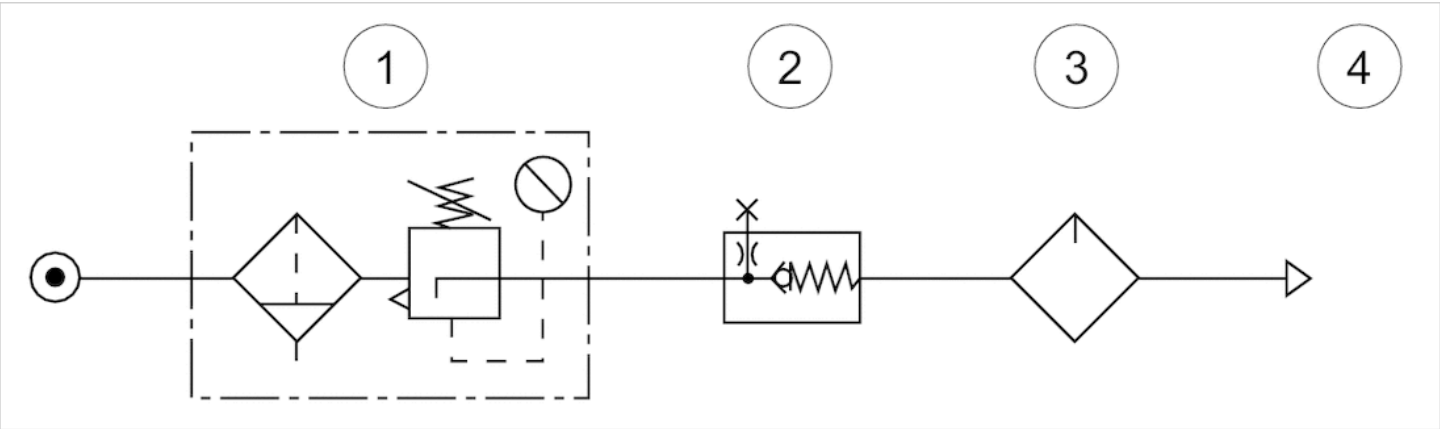
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

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

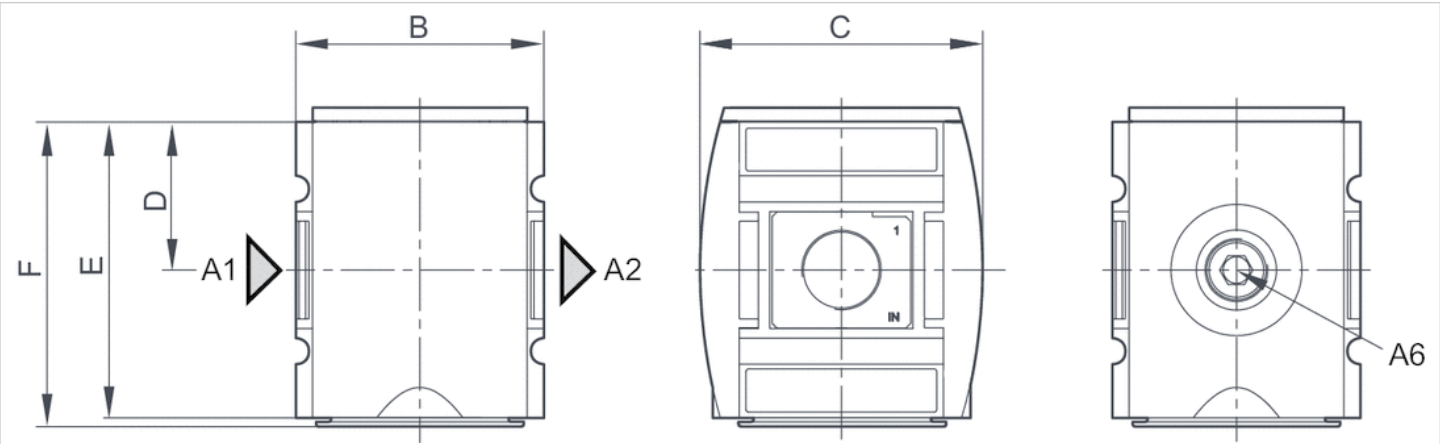
Dimensions

usage



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

Dimensions



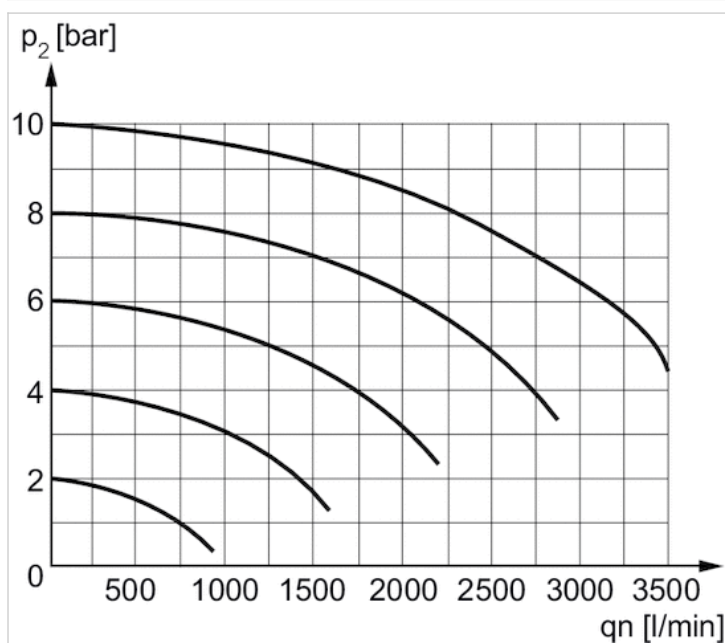
- A1 = input
- A2 = output
- A6 = output

Dimensions in mm

A1	A2	A6	B	C	D	E	F
G 1/4	G 1/4	G 1/4	52	59	34	65	66.8
G 3/8	G 3/8	G 1/4	52	59	34	65	66.8

Diagrams

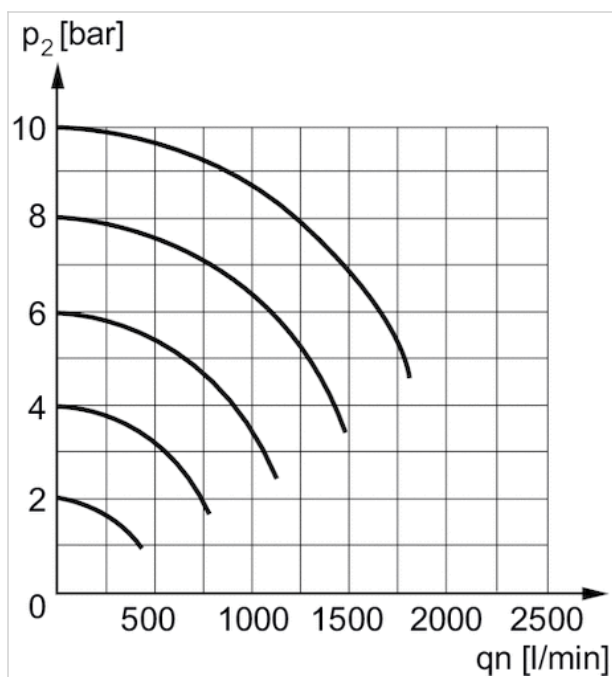
Flow rate characteristic



Nominal flow 1 ► 2

p2 = secondary pressure

qn = nominal flow



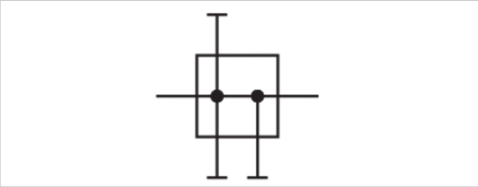
Nominal flow 1 ► 3

p2 = secondary pressure

qn = nominal flow

Distributor, Series AS2-DIC

- G 3/8
- Distributor 3x
- Center infeed
- suitable for ATEX



Version	Center infeed, Can be assembled into blocks
Parts	Distributor
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air, Neutral gases
Weight	1.43 lbs

Technical data

Part No.	Port	Nominal flow	Nominal flow	Nominal flow	Nominal flow
		Qn 1►2	Qn 1►3	Qn 1►4	Qn 1►5
R412006249	G 3/8	2.74 Cv	2.03 Cv	0.915 Cv	2.03 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi

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

Technical information

Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)

Additional air supply possible at connections A4 and A5.

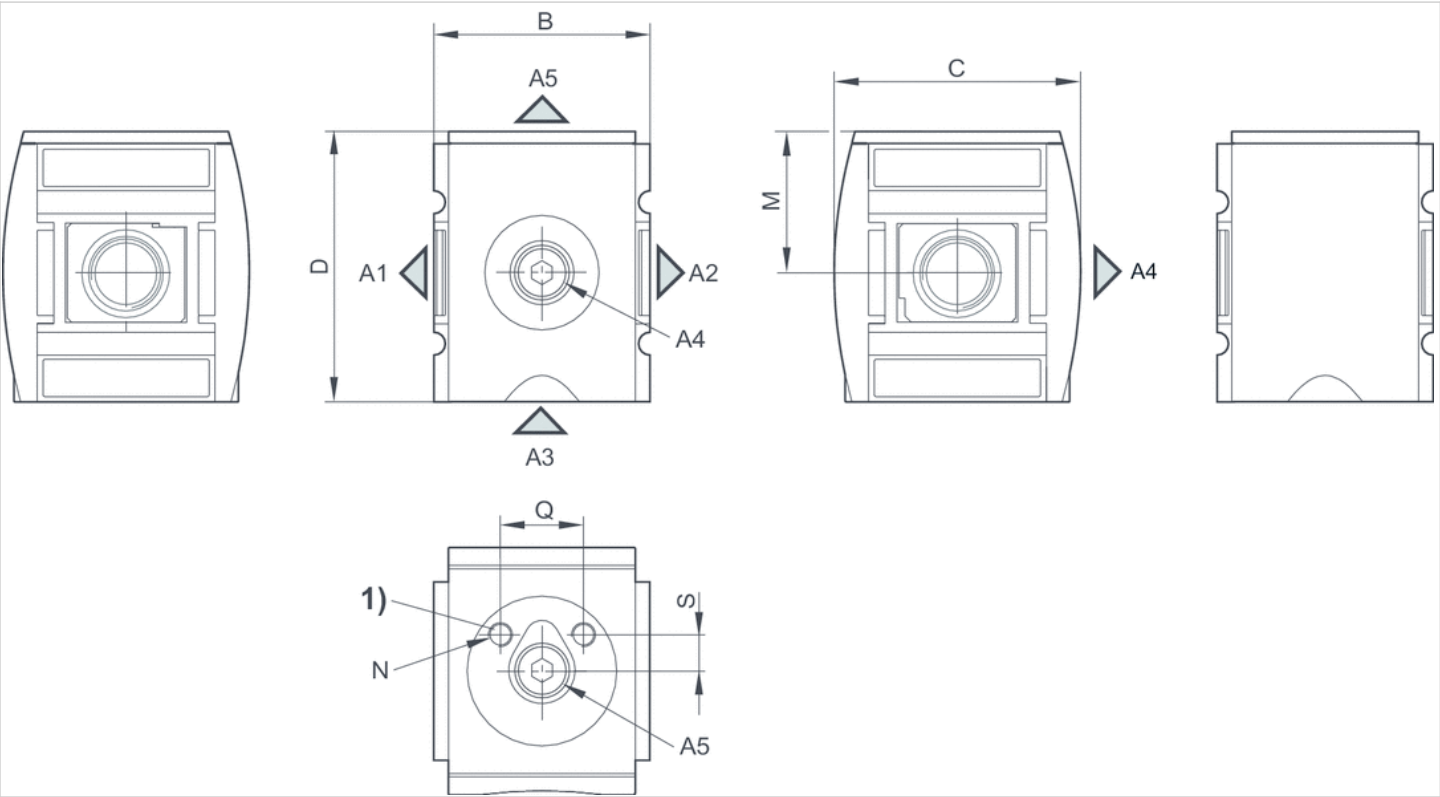
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Dimensions



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

Dimensions in mm

A1	A2	A3	A4	A5	B	C	D	M	N	Q	S
G 3/8	G 3/8	G 1/4	G 1/4	G 1/4	52	59	65	32.5	M5	20	8

Reservoir, Series AS2-CLS/ -CLP/ -CLC

- for filters, pre-filters and microfilters
- Material Polycarbonate, Die cast zinc
- suitable for ATEX



Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air
Filter reservoir volume	0.95 fl.oz.
Weight	See table below

Technical data

Part No.	Condensate drain	Reservoir
R412006338	semi-automatic, open without pressure	Polycarbonate
R412006339	fully automatic, open without pressure	Polycarbonate
R412006340	fully automatic, closed without pressure	Polycarbonate
R412006344	semi-automatic, open without pressure	Die cast zinc, with window
R412006345	fully automatic, open without pressure	Die cast zinc, with window
R412006346	fully automatic, closed without pressure	Die cast zinc, with window

Part No.	Protective guard	Weight	Fig.
R412006338	Polyamide	0.17 lbs	Fig. 1
R412006339	Polyamide	0.264 lbs	Fig. 2
R412006340	Polyamide	0.264 lbs	Fig. 2
R412006344	-	0.745 lbs	Fig. 1
R412006345	-	0.86 lbs	Fig. 2
R412006346	-	0.86 lbs	Fig. 2

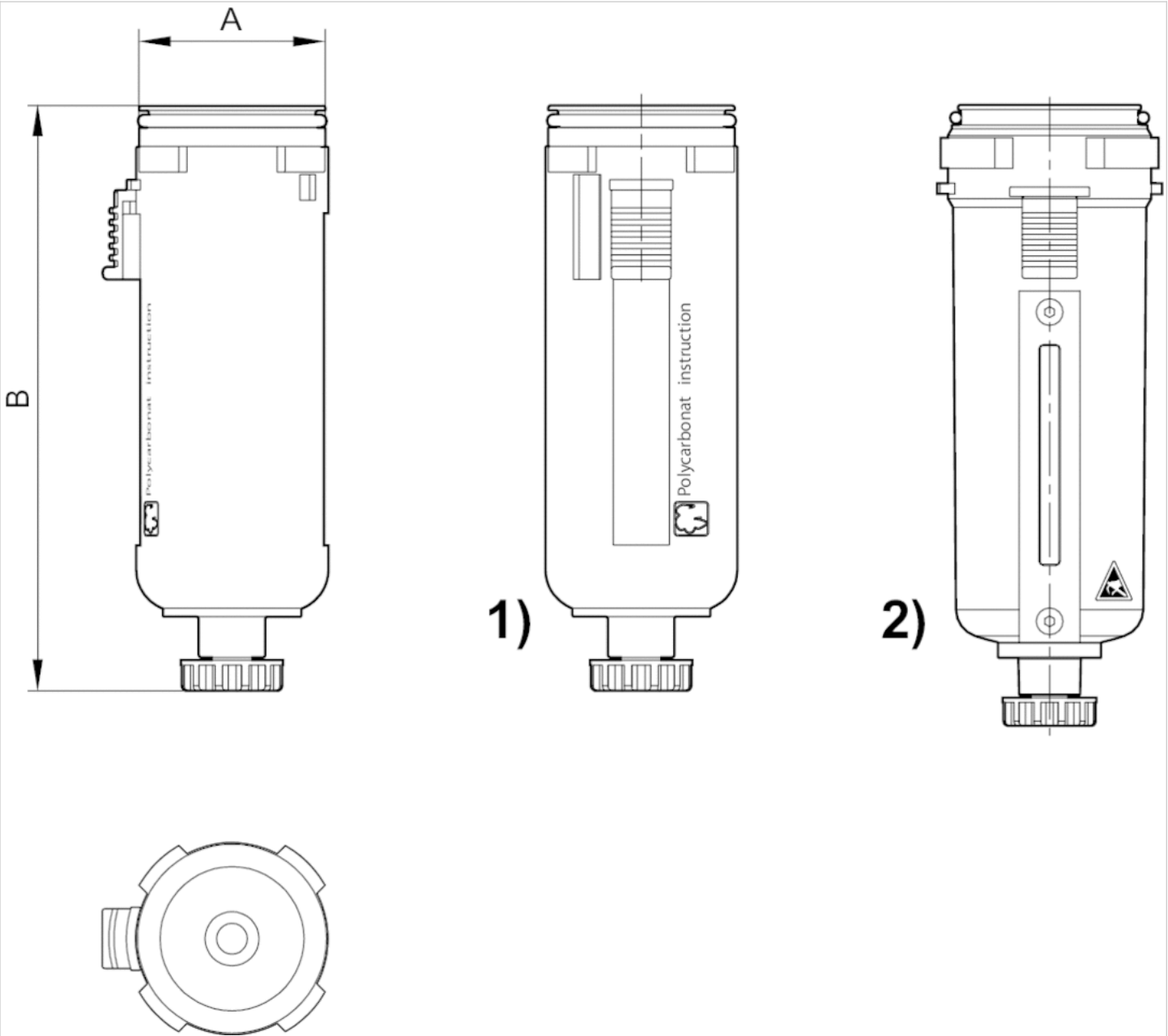
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Fig. 1

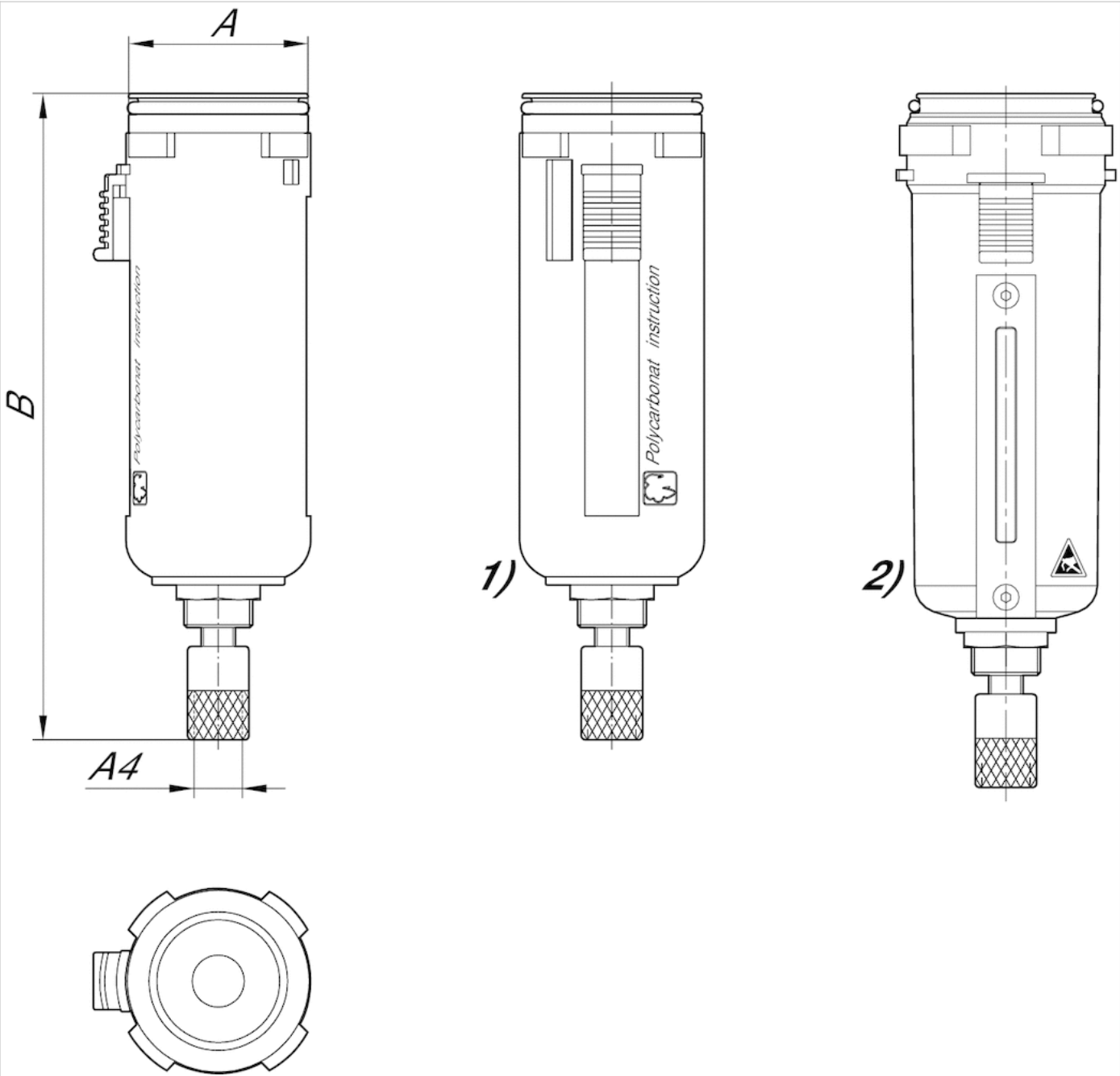


Dimensions

A	B
37.6	115.5

Dimensions

Fig. 2



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

Dimensions

A4	A	B
G 1/8	37.6	132

Reservoir, Series AS2-CLA

- for active carbon filter
- Material Polycarbonate, Die cast zinc
- suitable for ATEX



Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
Medium	Compressed air
Filter reservoir volume	0.95 fl.oz.
Weight	See table below

Technical data

Part No.	Reservoir	Protective guard	Weight
R412006347	Polycarbonate	Polyamide	1.7 lbs
R412006349	Die cast zinc, with window	-	0.745 lbs

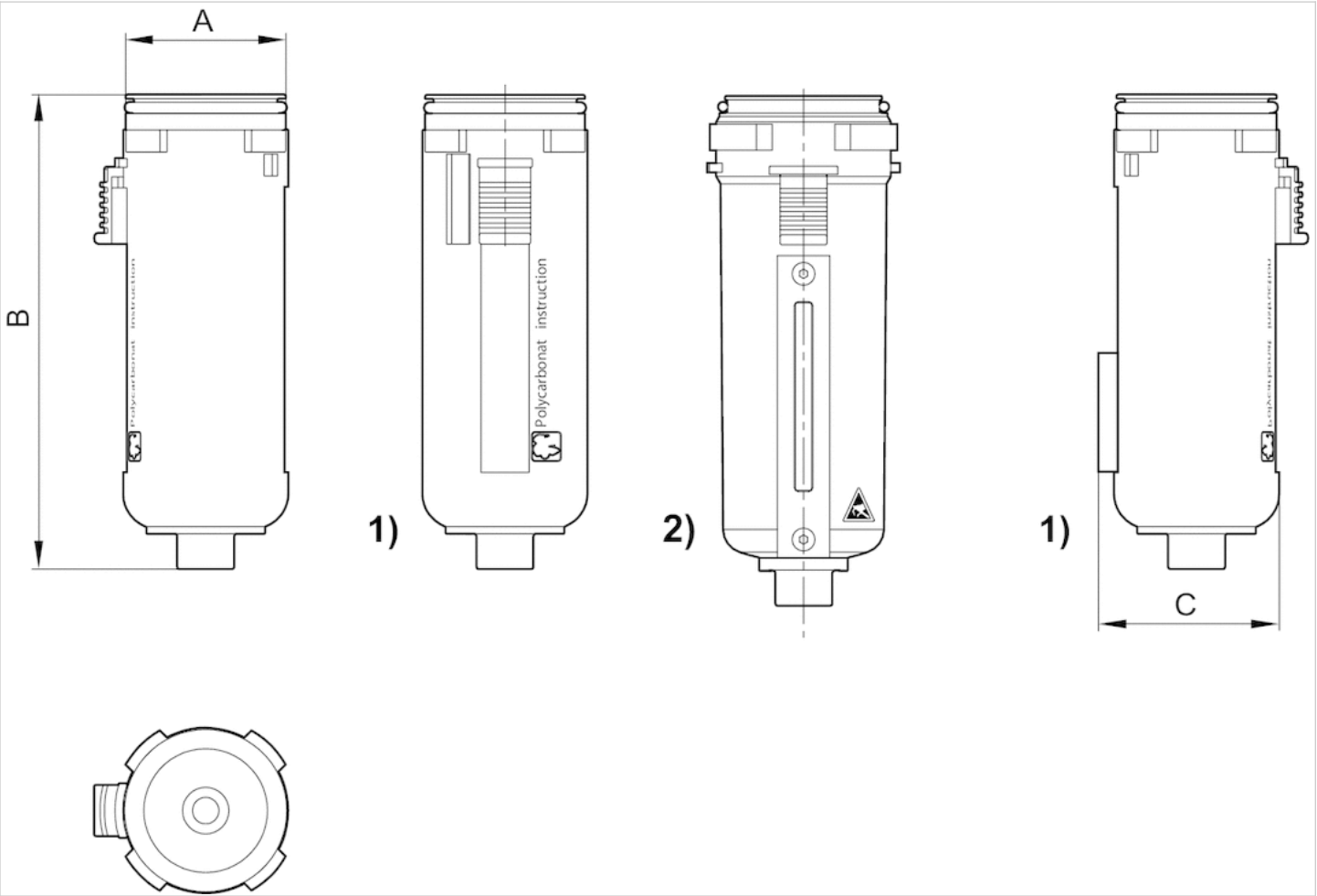
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Dimensions



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

Dimensions

A	B
37.6	108.5

Reservoir, Series AS2-CBS

- for lubricator
- Material Polycarbonate, Die cast zinc
- suitable for ATEX



Version

Certificates

Working pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Lubricator reservoir volume

Weight

Reservoir

suitable for ATEX

0 ... 232 psi

14 ... 122 °F

14 ... 122 °F

Compressed air, Oil

1.35 fl.oz.

See table below

Technical data

Part No.	Electrical level indicator	Reservoir	Protective guard	Weight
R412006352	-	Polycarbonate	Polyamide	1.7 lbs
R412006358	-	Die cast zinc, with window	-	0.569 lbs
R412006351	with external query	Polycarbonate	Polyamide	1.7 lbs

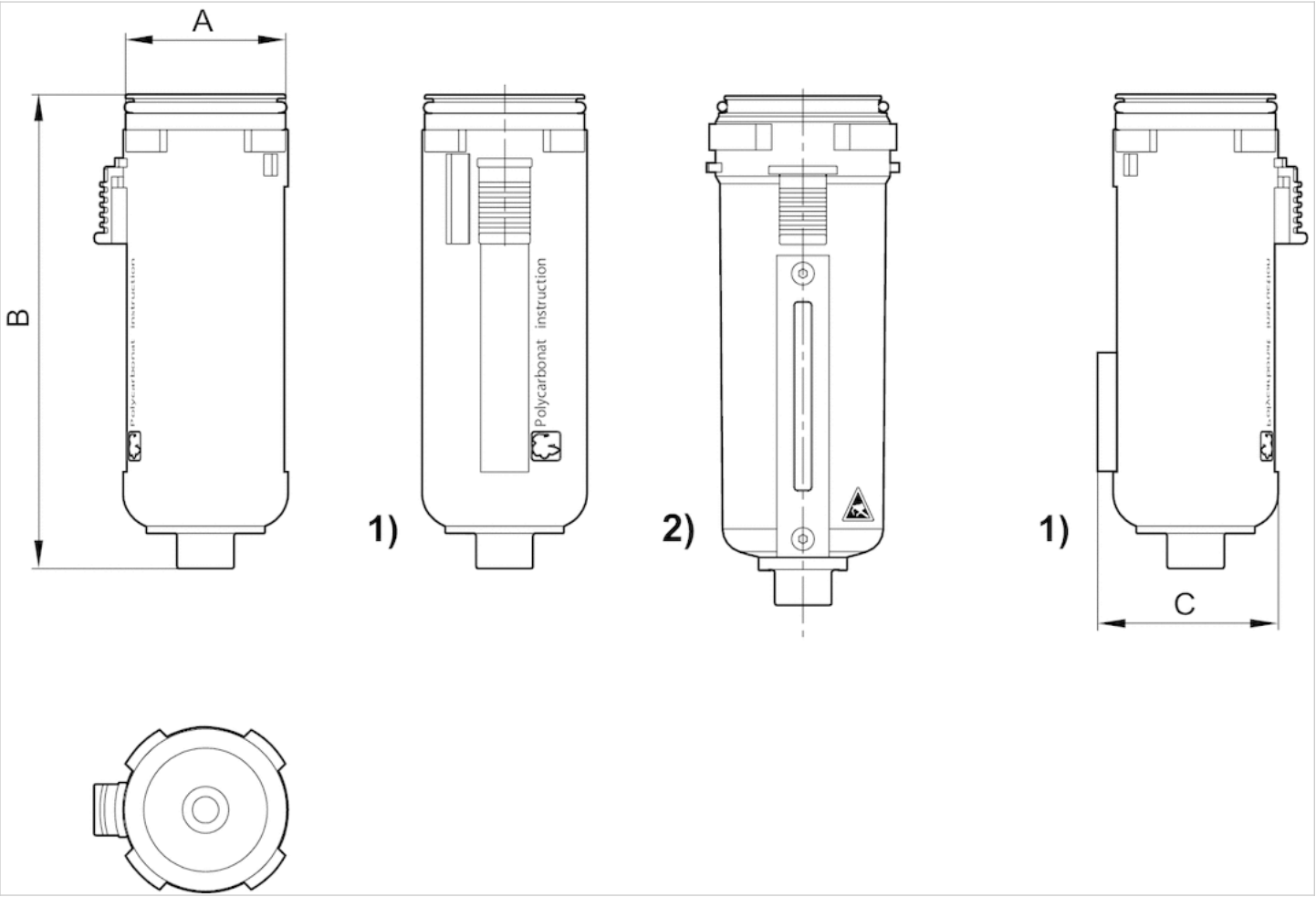
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

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

Dimensions

Dimensions

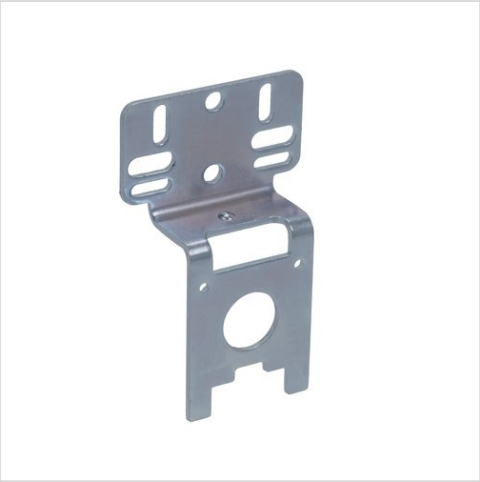


- 1) Plastic reservoir and protective guard with window
- 2) Metal reservoir with inspection glass

Dimensions

A	B	C
37.6	108.5	—
37.6	108.5	42.5

Mounting plate, Series AS2-MBR-...-



Ambient temperature min./max.

Weight

14 ... 122 °F

0.143 lbs

Technical data

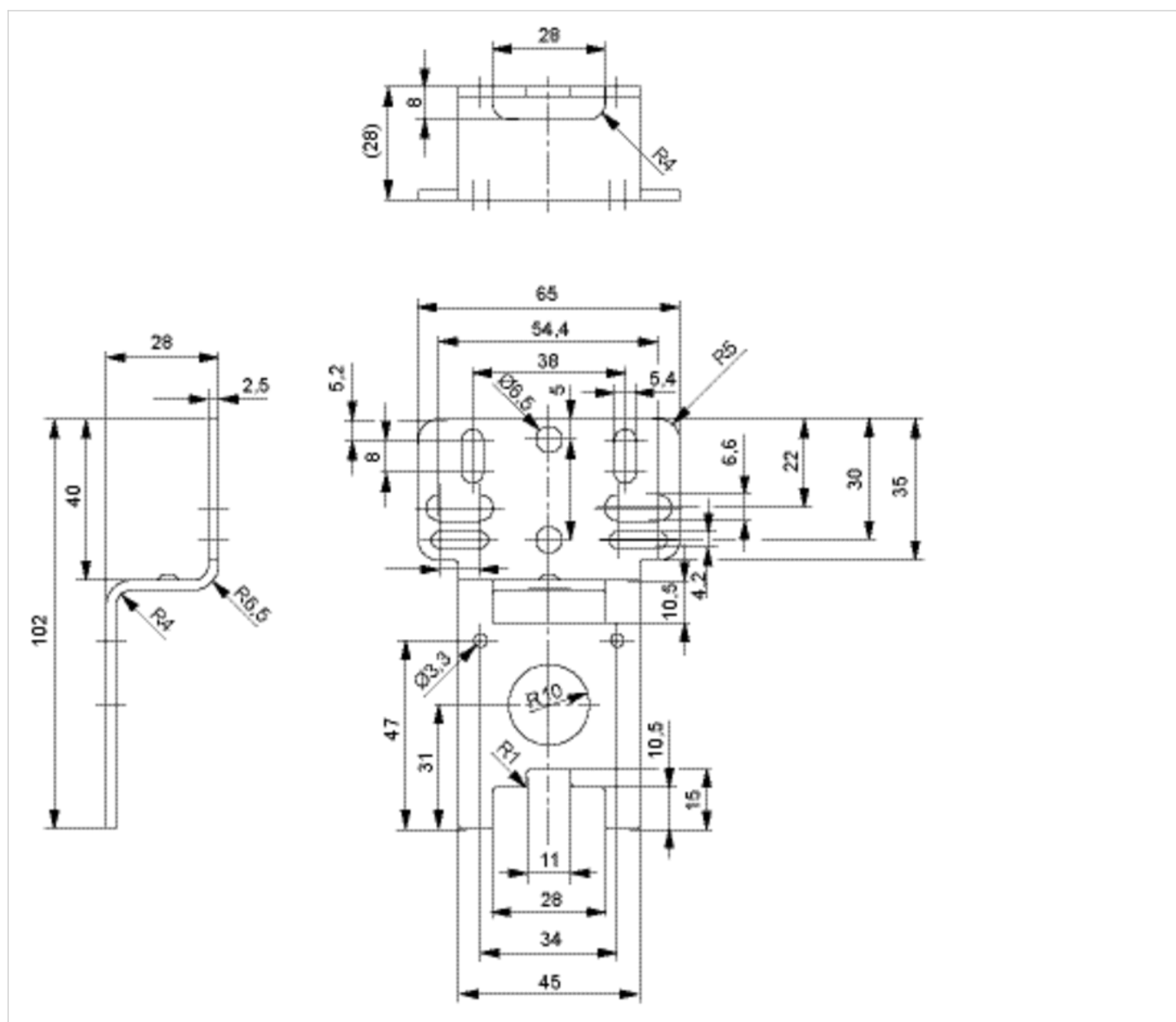
Part No.
R412006368

Scope of delivery incl. 2 mounting screws 3x10 (Torx 10 IP) DIN EN ISO 10664

Technical information

Material	
Housing	Steel, galvanized
Seal	Acrylonitrile butadiene rubber

Dimensions



Mounting bracket, Series AS2-MBR-...-W02



Ambient temperature min./max.
Weight

14 ... 122 °F
0.143 lbs

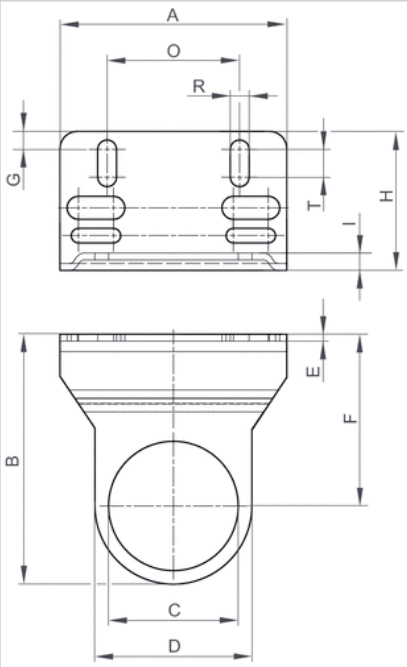
Technical data

Part No.
R412007963

Technical information

Material	
Housing	Steel, galvanized

Dimensions



Dimensions

A	B	C	D	E	F	G	H	I	O	R	T
65	72	37.2	45	2	53.4	5.2	35	5	38	5.4	8

Mounting clip, Series AS2-MBR-...-W03



Ambient temperature min./max.
Weight

14 ... 122 °F
0.033 lbs

Technical data

Part No.
R412006370

Scope of delivery incl. 2 mounting screws M3x53-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

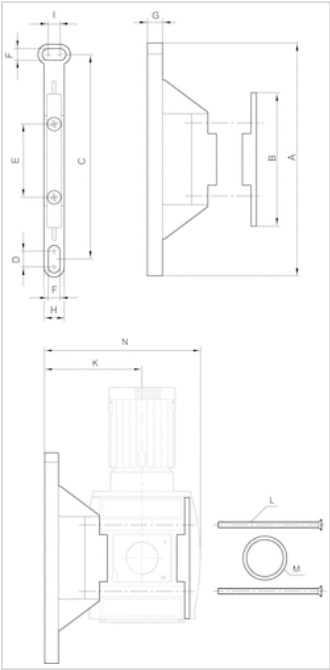
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



L = Mounting screw
M = O-ring

Dimensions

A	B	C	D	E	F	G	H	I	K	L	M	N
108	62	95	7.3	34	5.4	7	9.4	5.6	49.4	M3x53	19x1,8	78.9

Block assembly kit, Series AS2-MBR-...-W04



Ambient temperature min./max.

14 ... 122 °F

Weight

0.022 lbs

Technical data

Part No.
R412006371

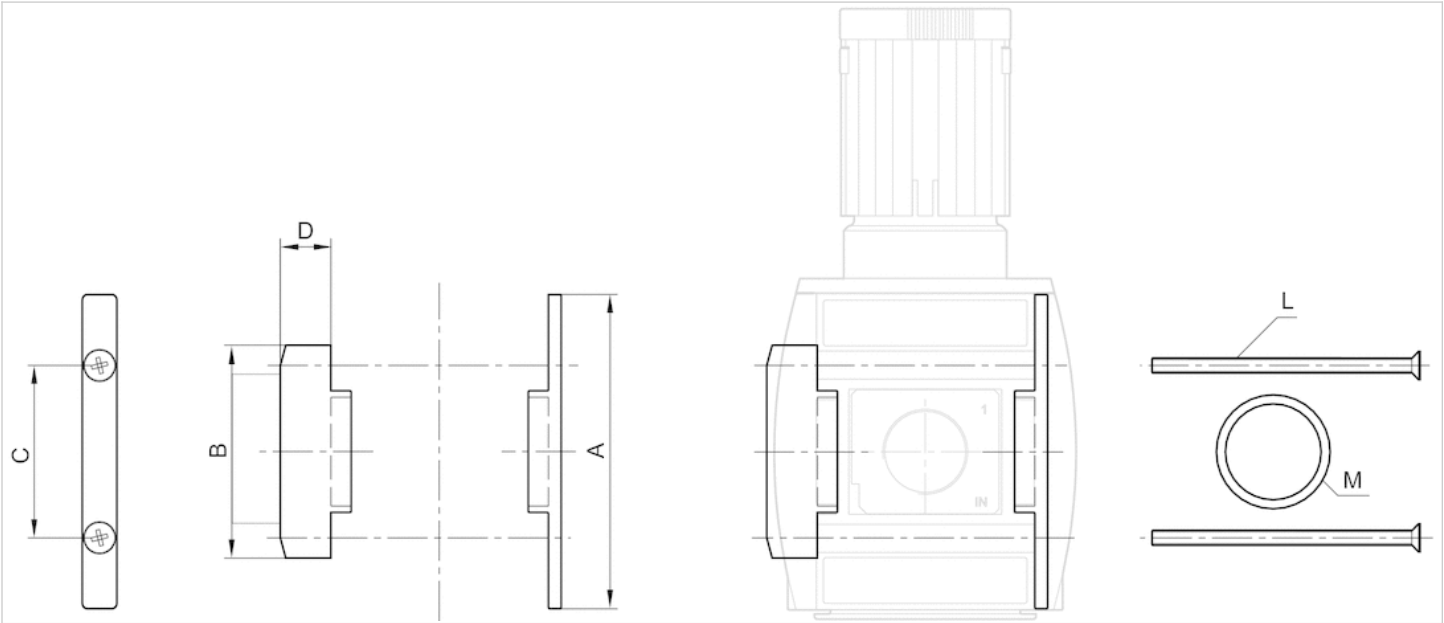
Scope of delivery incl. 2 mounting screws M3x53-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 1x O-ring

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

Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

Dimensions



Dimensions

A	B	C	D	L	M
62	42	34	6	M3x53	19x1,8

Block assembly kit, Series AS2-MBR-...-W05

- G 1/4 ... G 3/8



Ambient temperature min./max.
 14 ... 122 °F

Weight
 1.05 lbs

Technical data

Part No.	Port
R412006367	G 3/8
R412006366	G 1/4

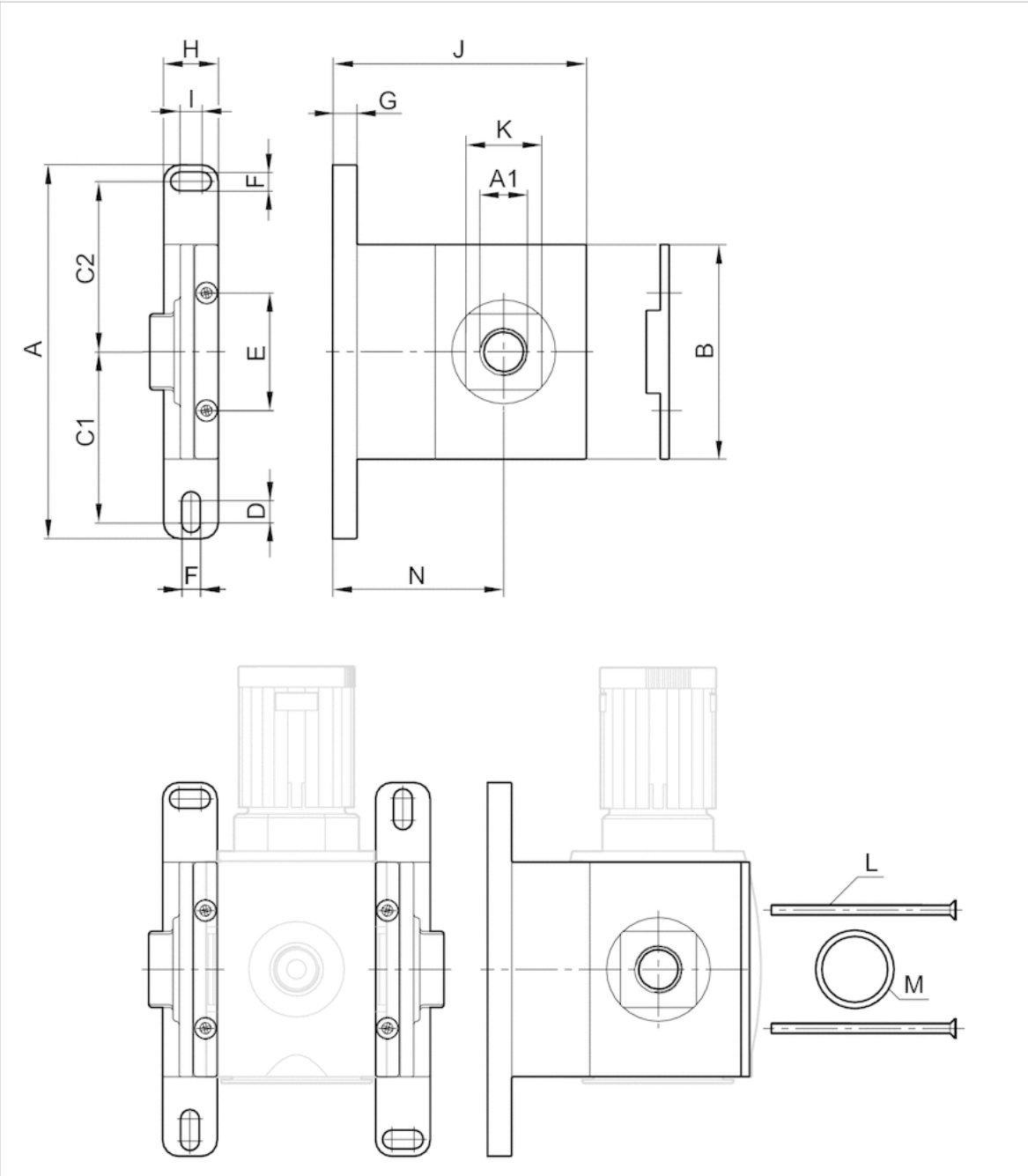
Scope of delivery incl. 4 mounting screws M3x53-4.8-A2R according to EN ISO 7046-1 (countersunk screw with type H X-slot), 2x O-ring

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
R412006367	G 3/8	108	62	49.3	49.3	6.4	34	5.4	7	16	6.4	73	22	M3x53	19x1,8	49.4
R412006366	G 1/4	108	62	49.3	49.3	6.4	34	5.4	7	16	6.4	73	22	M3x53	19x1,8	49.4

Block assembly kit, Series AS2/AS3-MBR-...-W07



Ambient temperature min./max.
 14 ... 122 °F

Technical data

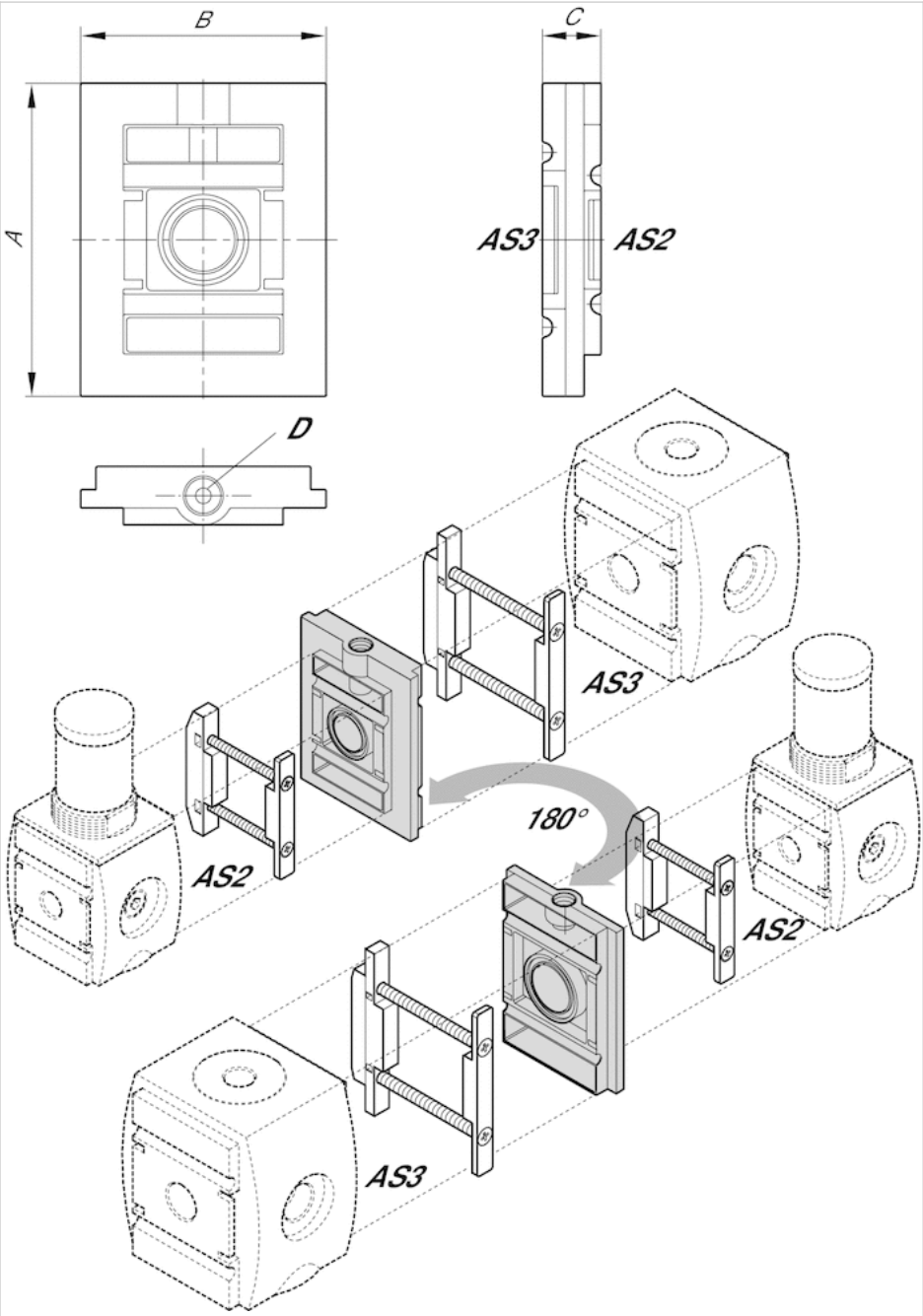
Part No.	Port
R412010121	G 1/8

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

Block assembly kit, Series AS1/AS2-MBR-...-W07



Ambient temperature min./max.
Weight

14 ... 122 °F
0.121 lbs

Technical data

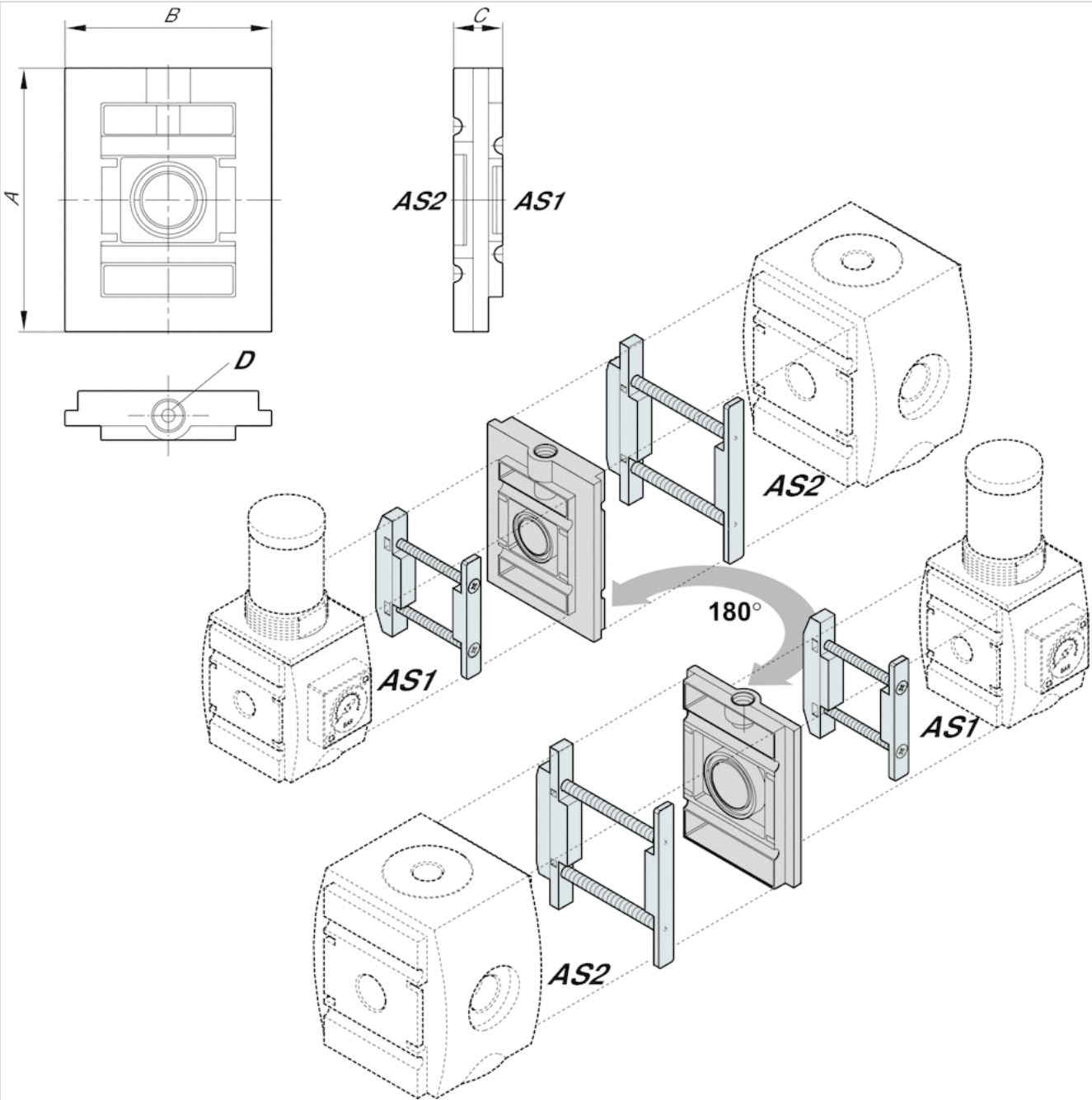
Part No.
R412014759

Scope of delivery incl. 1 blanking screw and 2 mounting strap kits

Technical information

Material	
Housing	Polyamide
Seal	Acrylonitrile butadiene rubber

Dimensions



Dimensions

A	B	C	D
62	47.5	14	G 1/8

Panel nut, Series AS-MBR-...-W06

- for AS1, AS2



Ambient temperature min./max.

14 ... 122 °F

The delivered product may vary from that in the illustration.

Technical data

Part No.	Port
R412006372	M36x1.5

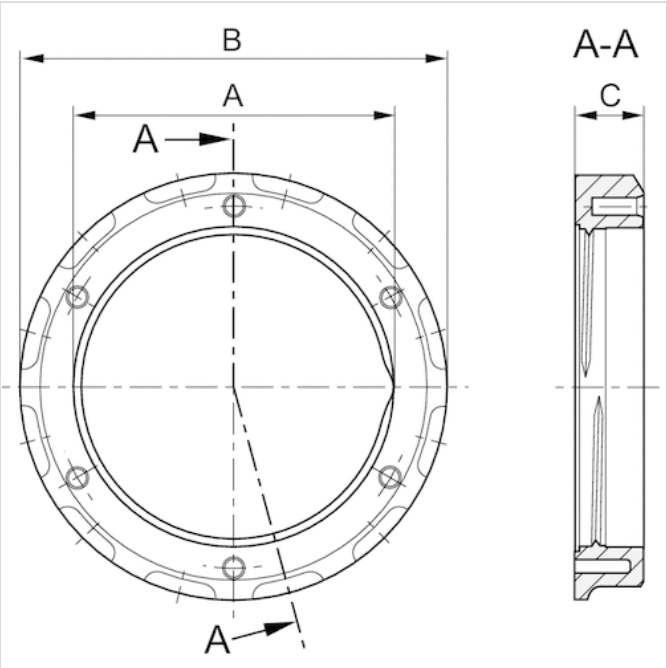
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Housing	Polyamide

Dimensions

Dimensions



Dimensions

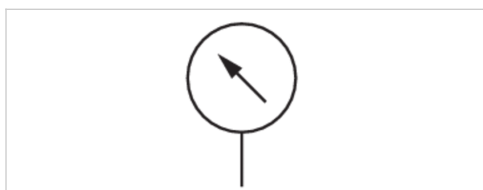
Part No.	For series	A	B	C
R412006372	AS1, AS2	M36x1,5	48	8

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 ... 140 °F
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	1.57 inch	0 ... 1.2 bar	0 ... 1.6 bar	0 ... 23 psi	0.05
R412004408	G 1/4	1.57 inch	0 ... 2 bar	0 ... 2.5 bar	0 ... 36 psi	0.1
R412004409	G 1/4	1.57 inch	0 ... 3.2 bar	0 ... 4 bar	0 ... 58 psi	0.1
R412004410	G 1/4	1.57 inch	0 ... 4 bar	0 ... 6 bar	0 ... 87 psi	0.2
R412004411	G 1/4	1.57 inch	0 ... 8 bar	0 ... 10 bar	0 ... 145 psi	0.2
R412004412	G 1/4	1.57 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5
R412004413	G 1/4	1.97 inch	0 ... 1.2 bar	0 ... 1.6 bar	0 ... 23 psi	0.05
R412004414	G 1/4	1.97 inch	0 ... 2 bar	0 ... 2.5 bar	0 ... 36 psi	0.1
R412004415	G 1/4	1.97 inch	0 ... 3.2 bar	0 ... 4 bar	0 ... 58 psi	0.1
R412004416	G 1/4	1.97 inch	0 ... 4 bar	0 ... 6 bar	0 ... 87 psi	0.2
R412004417	G 1/4	1.97 inch	0 ... 8 bar	0 ... 10 bar	0 ... 145 psi	0.2
R412004418	G 1/4	1.97 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5
R412007898	G 1/4	1.97 inch	0 ... 20 bar	0 ... 25 bar	0 ... 362 psi	1
R412004419	G 1/4	2.48 inch	0 ... 1.2 bar	0 ... 1.6 bar	0 ... 23 psi	0.05
R412004420	G 1/4	2.48 inch	0 ... 2 bar	0 ... 2.5 bar	0 ... 36 psi	0.1
R412004421	G 1/4	2.48 inch	0 ... 3.2 bar	0 ... 4 bar	0 ... 58 psi	0.1
R412004422	G 1/4	2.48 inch	0 ... 4 bar	0 ... 6 bar	0 ... 87 psi	0.2
R412004423	G 1/4	2.48 inch	0 ... 8 bar	0 ... 10 bar	0 ... 145 psi	0.2
R412004424	G 1/4	2.48 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5

Part No.	Weight	
R412004407	0.176 lbs	-
R412004408	0.176 lbs	-
R412004409	0.176 lbs	-
R412004410	0.176 lbs	-
R412004411	0.176 lbs	-
R412004412	0.176 lbs	-
R412004413	0.198 lbs	-
R412004414	0.198 lbs	-
R412004415	0.198 lbs	-
R412004416	0.198 lbs	-
R412004417	0.198 lbs	1)
R412004418	0.198 lbs	1)
R412007898	0.198 lbs	-
R412004419	0.22 lbs	-
R412004420	0.22 lbs	-
R412004421	0.22 lbs	-
R412004422	0.22 lbs	-
R412004423	0.22 lbs	-
R412004424	0.22 lbs	-

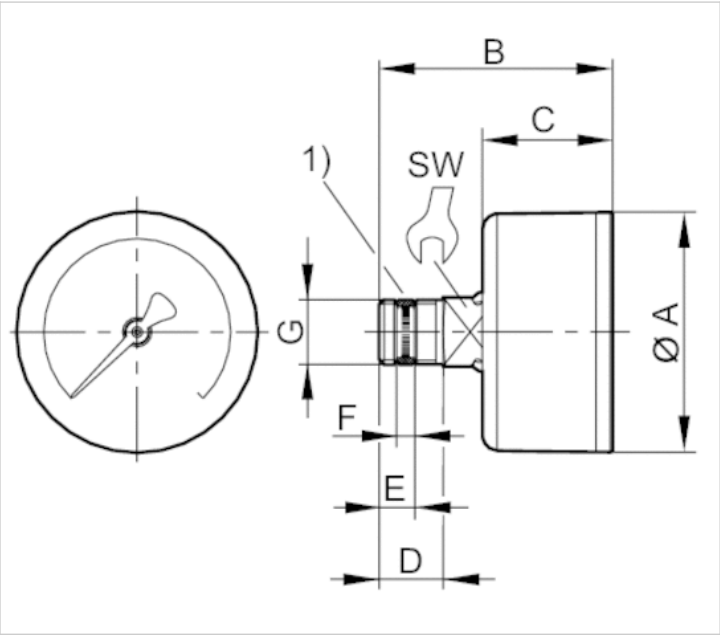
1) Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

Dimensions

Dimensions



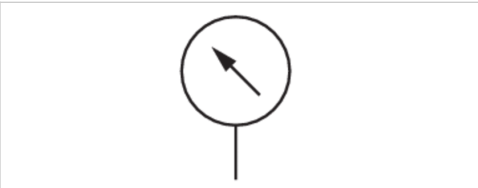
1) Gasket thread

Dimensions in mm

Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F 1)	SW
G 1/4	1.57 inch	39	47.5	26.5	13	7.2	3.7	14
G 1/4	1.97 inch	49	47.5	26.5	13	7.2	3.7	14
G 1/4	2.48 inch	62	47	29	13	7.2	3.7	14

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 ... 140 °F
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	0.22 lbs

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412007867	G 1/4	1.97 inch	0 bar ... 1.2	0 bar ... 1.6	0 ... 23 psi	0.05
R412007868	G 1/4	1.97 inch	0 bar ... 2	0 bar ... 2.5	0 ... 36 psi	0.1
R412007869	G 1/4	1.97 inch	0 bar ... 3.2	0 bar ... 4	0 ... 58 psi	0.1
R412007870	G 1/4	1.97 inch	0 bar ... 4	0 bar ... 6	0 ... 87 psi	0.2
R412007871	G 1/4	1.97 inch	0 bar ... 8	0 bar ... 10	0 ... 145 psi	0.2
R412007872	G 1/4	1.97 inch	0 bar ... 12	0 bar ... 16	0 ... 232 psi	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.

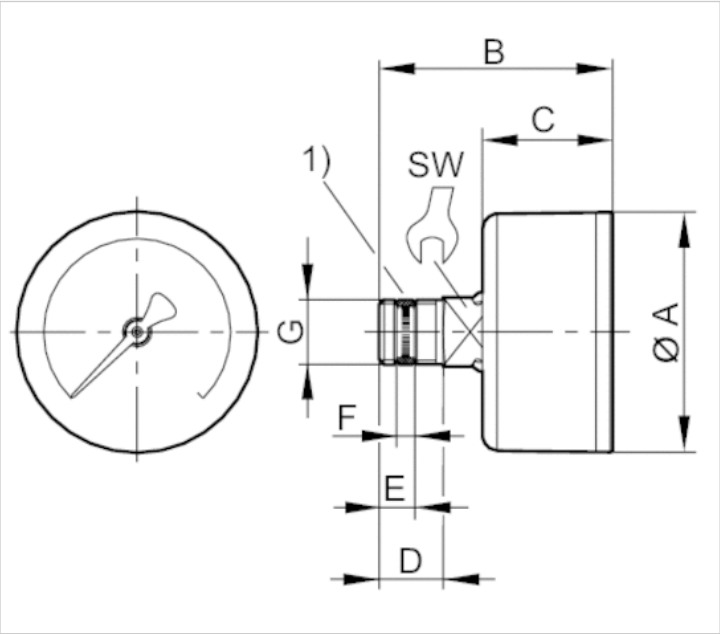
Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass

Material	
Viewing window	Polystyrene
Seal	Polytetrafluorethylene

Dimensions

Dimensions



1) Gasket thread

Dimensions in mm

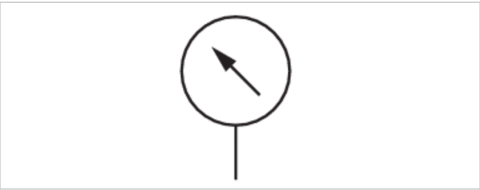
Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F	SW
G 1/4	1.97 inch	49	47.5	26.5	13	7.2	3.7	14

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.	32 ... 140 °F
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	0.28 lbs



Technical data

Part No.	Range of application	Display range	Operating pressure	Scale value
1827231072	0 ... 0.5 bar	0 ... 0.5 bar	0 ... 232 psi	0.1

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

Technical information

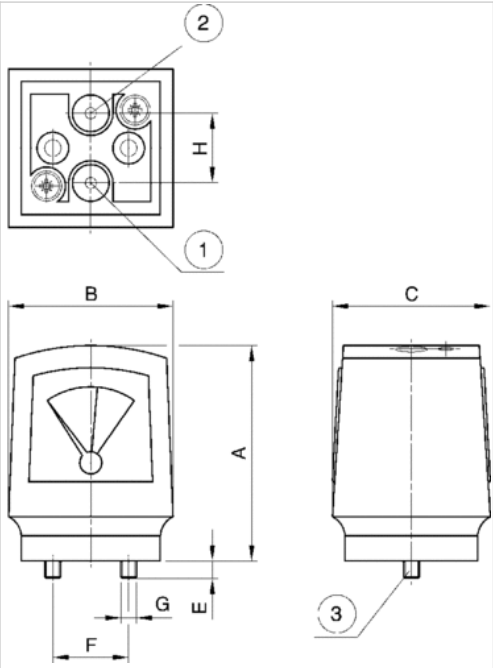
Suitable for use in Ex zones 1, 2, 21, 22

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

0.055 lbs

Technical data

Part No.
R412006363

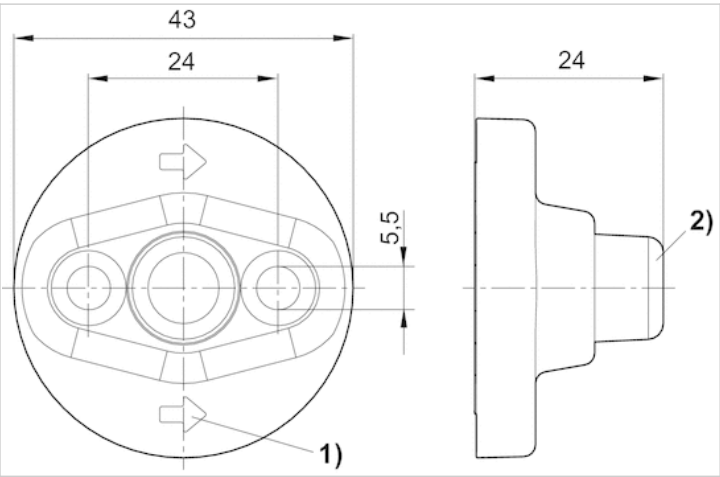
2 mounting screws and 2 O-rings supplied loose, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Material	Polyamide

Dimensions

Dimensions



- 1) Flow direction
- 2) Display in initial state: green (= Δp 0.35 bar)
Display turns red on contamination of the filter element (= $\Delta p \geq 0.35$ bar).

Dimensions in mm

Part No.	A	B	C	D
R412006363	43	24	5.5	24

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.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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	0.077 lbs

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
		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	-	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048004	-	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048005	2 VA	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048001	-	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048026	-	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048028	-	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048101	-	0.016 Cv	0.019 Cv	0 ... 87 psi
0820048029	2 VA	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048025	-	0.025 Cv	0.036 Cv	0 ... 145 psi
0820048102	-	0.02 Cv	0.026 Cv	0 ... 116 psi
0820048126	-	0.02 Cv	0.026 Cv	0 ... 116 psi

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F.

The oil content of compressed air must remain constant during the life cycle.

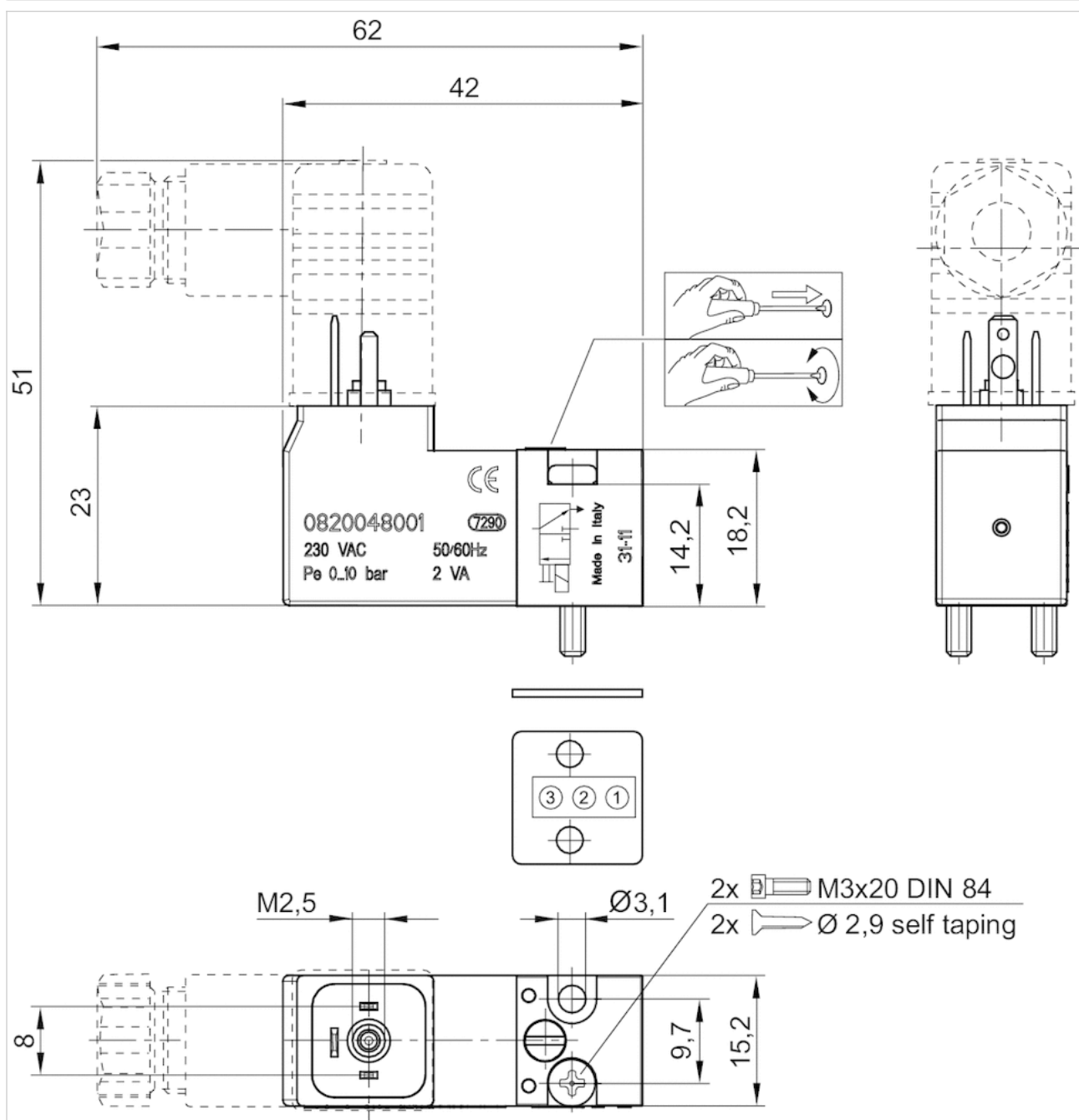
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

Material	
Housing	polyphenylene sulfide, Polyamide, fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



3/2-directional valve, Series 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 ... 145 psi
Ambient temperature min./max.	14 ... 122 °F
Medium temperature min./max.	14 ... 122 °F
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	0.132 lbs

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	0.069 Cv	0.091 Cv
0820019980	M5	0.066 Cv	0.081 Cv

Part No.	basic valve with electrical connector	ATEX
0820019985	Basic valve without coil	suitable for ATEX
0820019980	Basic valve without coil	suitable for ATEX

Nominal flow Q_n at 87 psi and Δp = 14.5 psi, 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 27 °F under ambient and medium temperature and may not exceed 5.4 °F .

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).

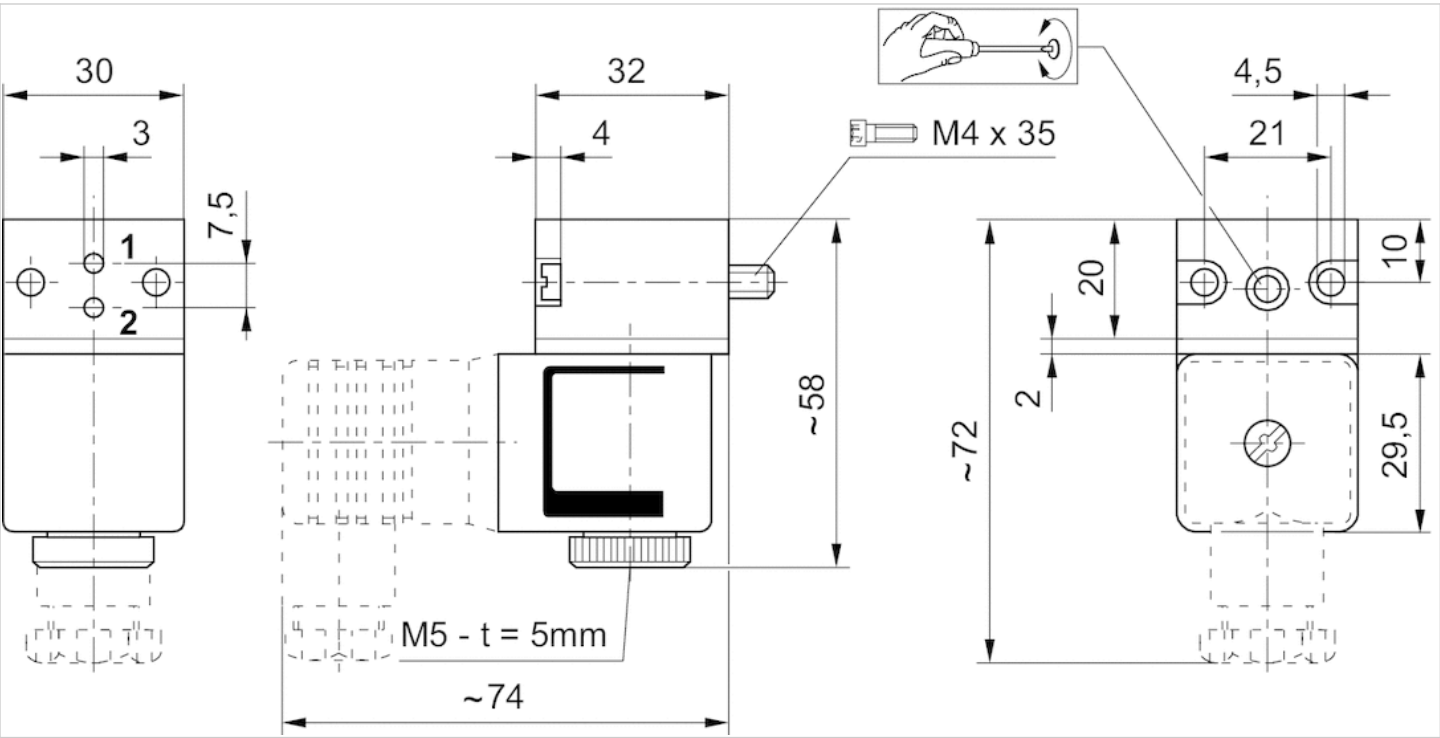
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

Technical information

Material	
Housing	Plastic
Seals	Fluorocaoutchouc

Dimensions

Dimensions



t = depth

Coil, Series CO1

- Cable with valve plug connector
- Power consumption, DC 3.25 W
- Holding power, AC 2.9-3 VA
- Switch-on power, AC 3-3.1 VA
- ATEX



Certificates

ATEX class G

ATEX class D

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index

Weight

ATEX

II 2G Ex mb IIC T4 Gb

II 2D Ex mb tb IIIC T130°C Db IP65

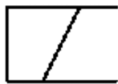
-4 ... 122 °F

IP65

100 %

14

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	-	-

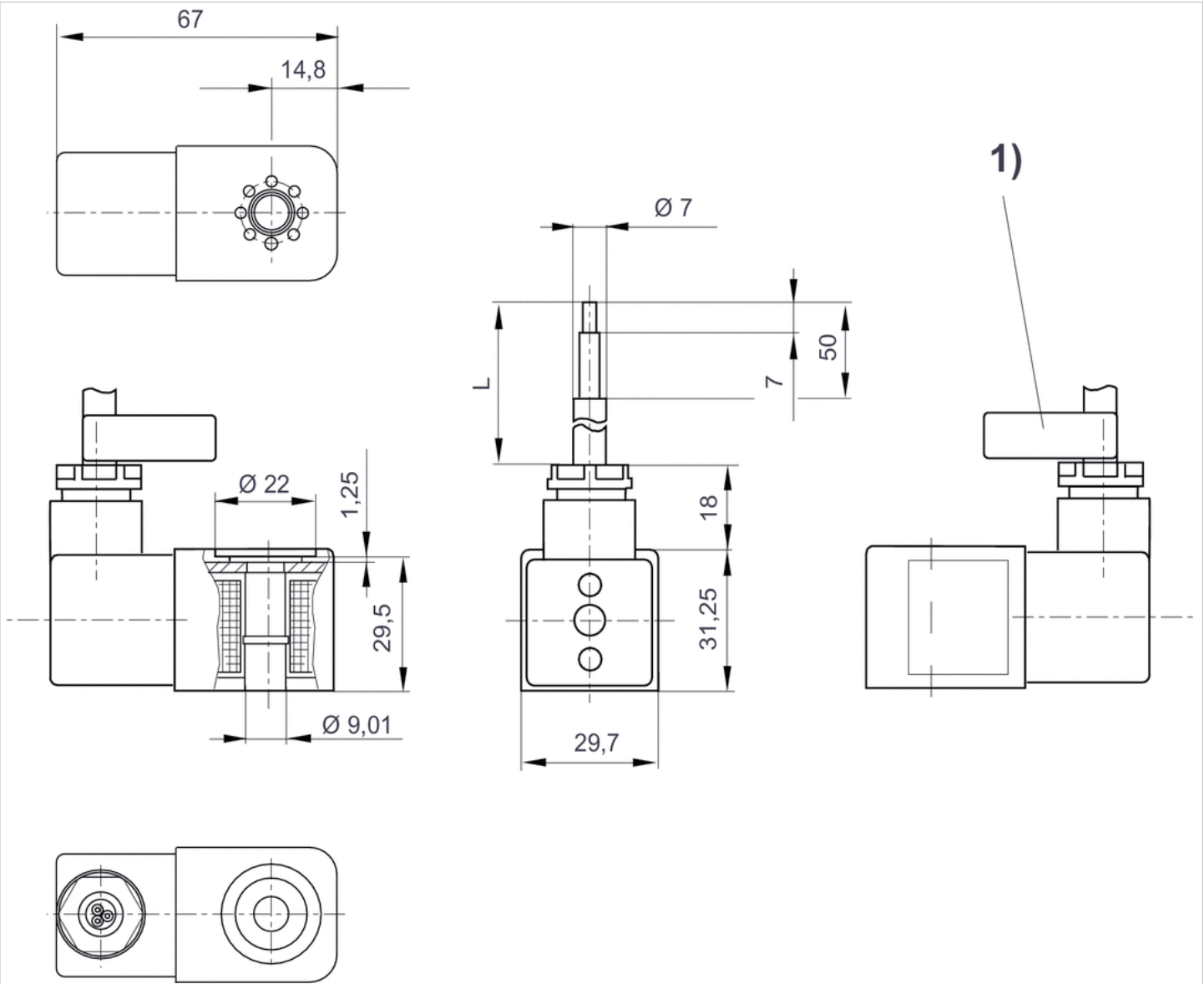
Part No.	Voltage tolerance	Voltage tolerance	Power consumption	Holding power
	DC	AC 50 Hz	DC	AC 50 Hz
1827414297	-	-10% / +10%	-	3 VA
1827414298	-	-10% / +10%	-	3 VA
1827414299	-	-10% / +10%	-	2.9 VA
1827414303	-10% / +10%	-	3.25 W	-
1827414304	-10% / +10%	-	3.25 W	-

Part No.	Switch-on power	Weight
	AC 50 Hz	
1827414297	3.1 VA	0.838 lbs
1827414298	3.1 VA	2.01 lbs
1827414299	3 VA	0.838 lbs
1827414303	-	0.838 lbs

Part No.	Switch-on power	Weight
	AC 50 Hz	
1827414304	-	2.01 lbs

Dimensions

Dimensions

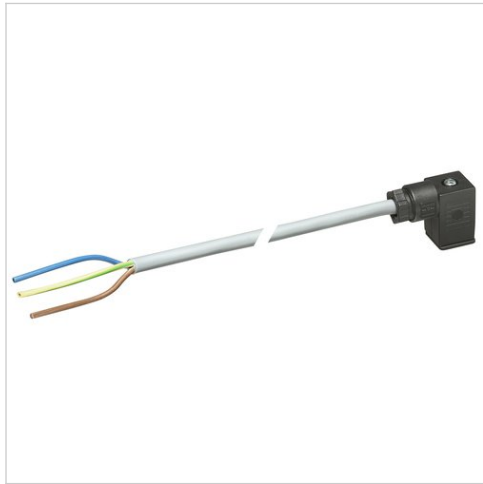


L = cable length

1) Cable ID band with serial number

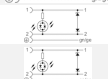
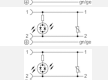
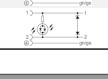
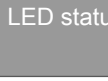
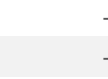
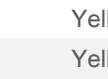
Valve plug connector, series CON-VP

- Socket, form C, 2+E, angled, 90°
- open cable ends, 3-pin
- with cable
- unshielded



Ambient temperature min./max.	-4 ... 176 °F
Operational voltage	See table below
Protection class	IP67
Mounting screw tightening torque	0.3 ft./lbs.
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 length	Weight	Fig.	
1834484213	-	3	9.84 ft.	0.403 lbs	Fig. 2	-
1834484215	-	3	16.4 ft.	0.679 lbs	Fig. 2	-
1834484205	Yellow	3	9.84 ft.	0.408 lbs	Fig. 2	1)
1834484207	Yellow	3	16.4 ft.	0.657 lbs	Fig. 2	1)
1834484209	Yellow	3	9.84 ft.	0.428 lbs	Fig. 2	1)
1834484211	Yellow	3	16.4 ft.	0.628 lbs	Fig. 2	1)
1834484236	Yellow	3	32.81 ft.	1.26 lbs	Fig. 2	1)

1) Scope of delivery incl. flat gasket

Technical information

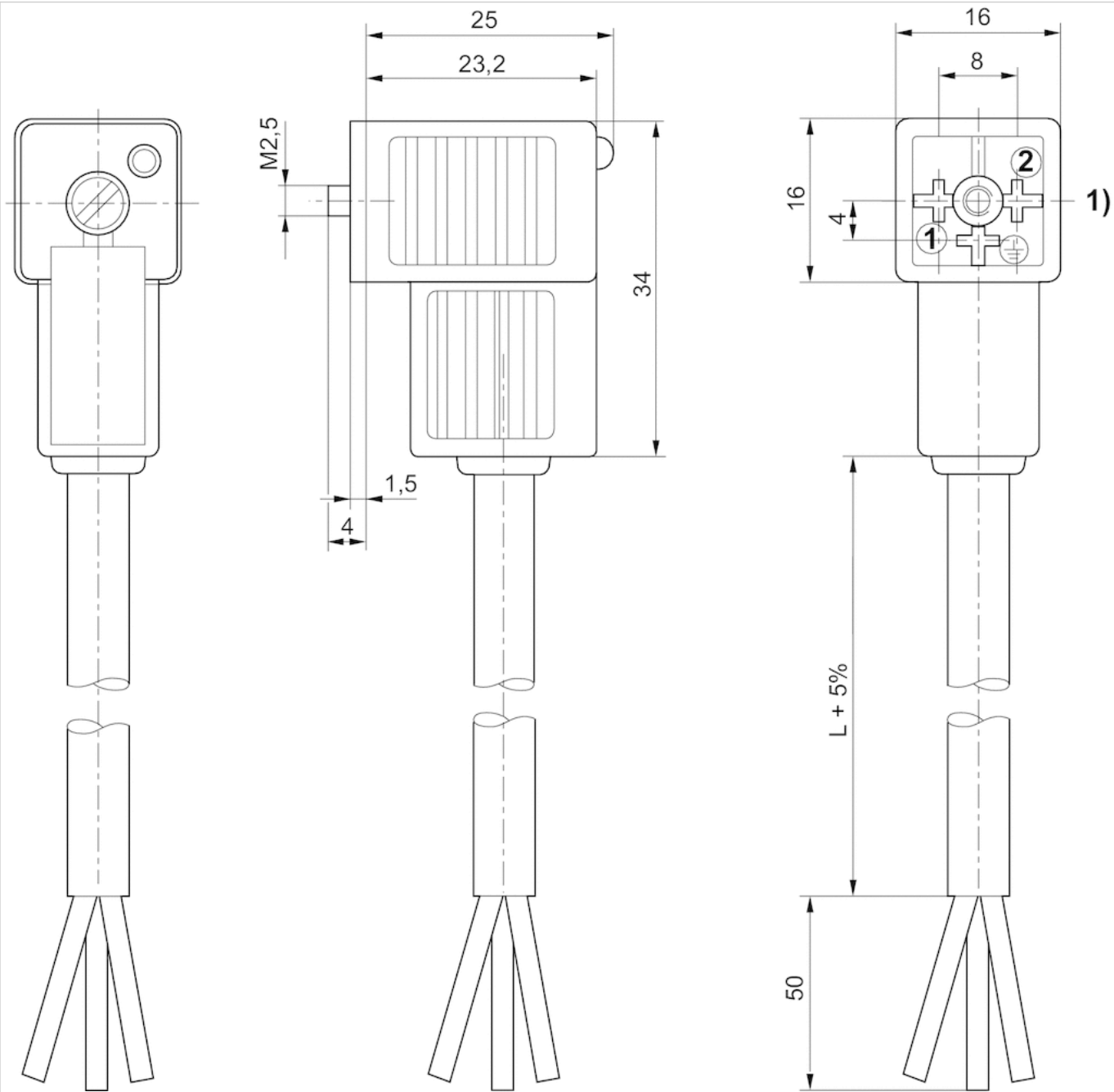
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

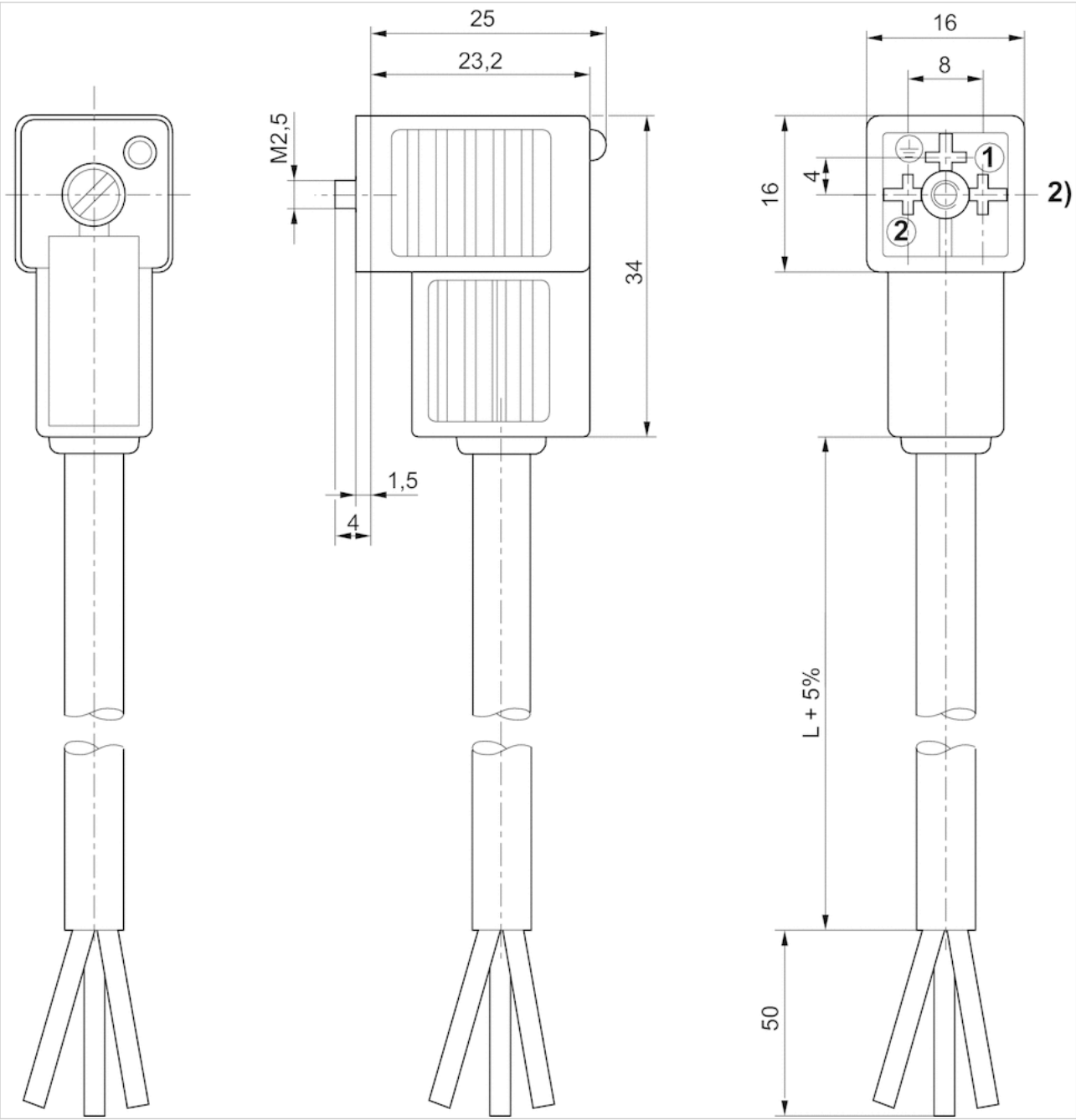
Dimensions

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 ... 185 °F
Operational voltage	48 V, AC/DC
Protection class	IP65
Wire cross-section	0 in²
Weight	See table below

1	BN
2	WH
3	BU
4	BK
5	

Technical data

Part No.	Max. current	Number of wires	Cable length	Weight
1834484259	4 A	4	9.84 ft.	0.286 lbs
1834484260	4 A	4	16.4 ft.	0.445 lbs
1834484261	4 A	4	32.81 ft.	0.853 lbs

Technical information

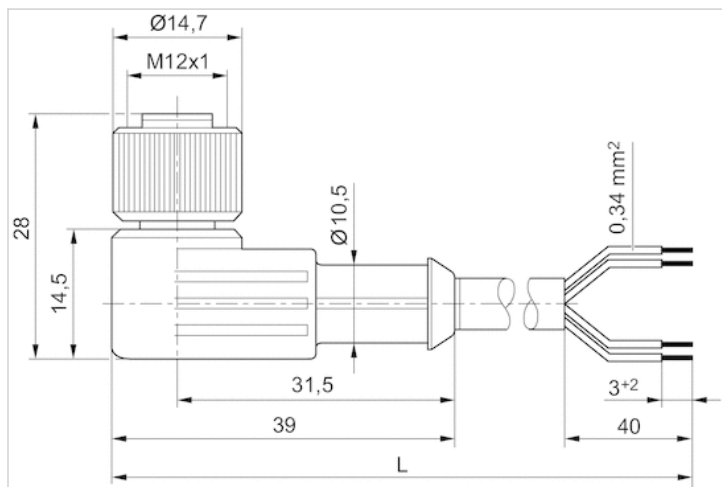
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

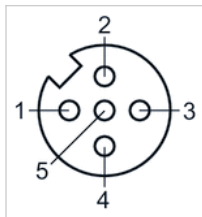
Dimensions



L = length

Pin assignments

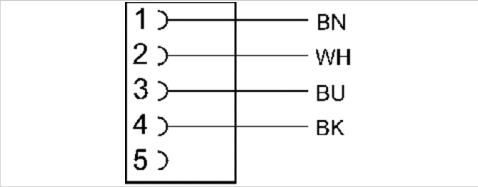
Pin assignment socket



- (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.	-13 ... 158 °F
Operational voltage	48 V, AC/DC
Protection class	IP67
Wire cross-section	0 in²
Weight	See table below

Technical data

Part No.	Max. current	Number of wires	Cable length	Weight
1834484256	4 A	4	9.84 ft.	0.289 lbs
1834484257	4 A	4	16.4 ft.	0.443 lbs
1834484258	4 A	4	32.81 ft.	0.877 lbs

Technical information

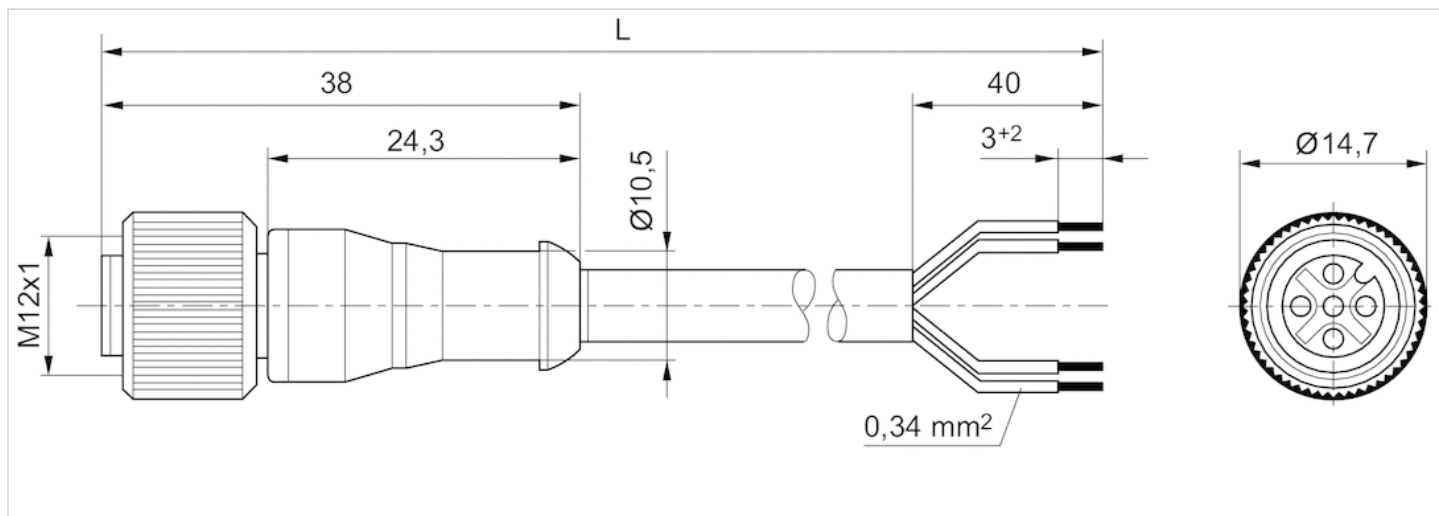
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Cable sheath	Polyurethane

Dimensions

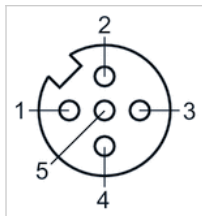
Dimensions



L = length

Pin assignments

Pin assignment socket



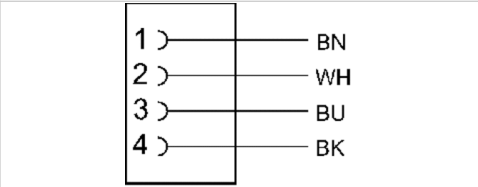
- (1) BN=brown
- (2) WH=white
- (3) BU=blue
- (4) BK=black
- (5) not assigned

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 ... 185 °F
Operational voltage	48 V, AC/DC
Protection class	IP67
Weight	0.029 lbs



Technical data

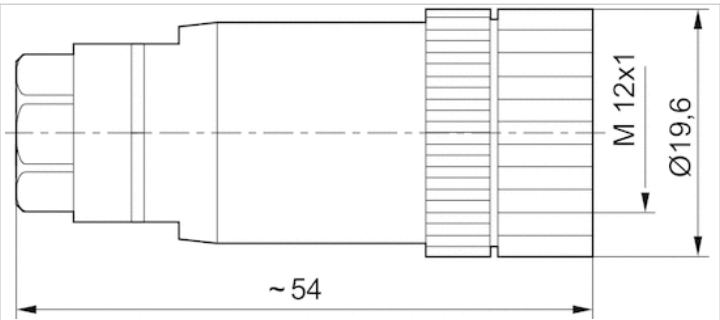
Part No.	Max. current
1834484177	4 A

Technical information

Material	
Housing	Polyamide

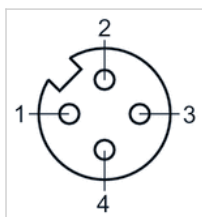
Dimensions

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 ... 185 °F
Operational voltage	48 V, AC/DC
Protection class	IP67
Weight	0.035 lbs

Technical data

Part No.	Max. current	suitable cable-Ø min./max
1834484178	4 A	0.16 inch

Technical information

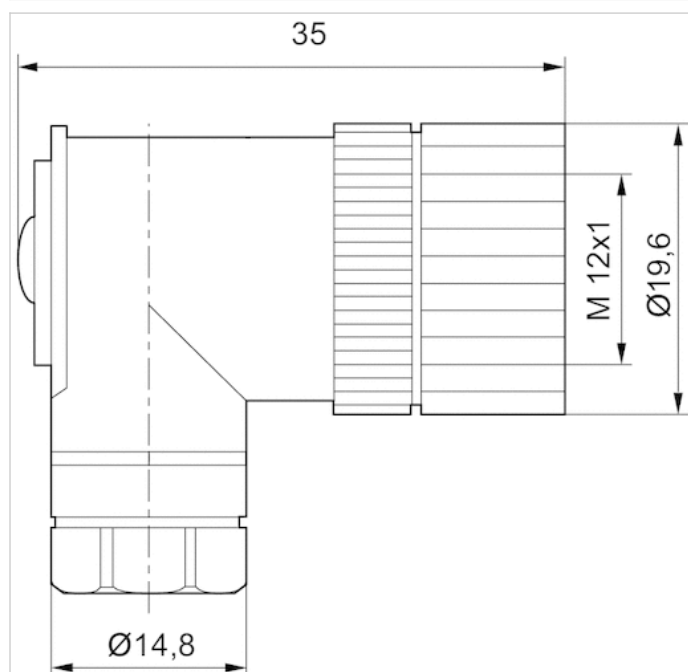
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Housing	Polyamide

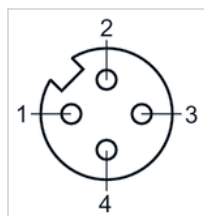
Dimensions

Dimensions



Pin assignments

Pin assignment socket

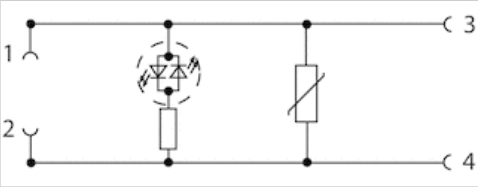


Adapter, Series CON-VP

- Socket, form C, 2+E, angled, 90°
- Plug, M12x1, 3-pin, A-coded, straight, 180°
- unshielded
- with LED Yellow



Ambient temperature min./max.	14 ... 212 °F
Operational voltage	24 V, DC
Protection class	IP65
Protective circuit	Varistor
Mounting screw tightening torque	0.44 ft./lbs.



Technical data

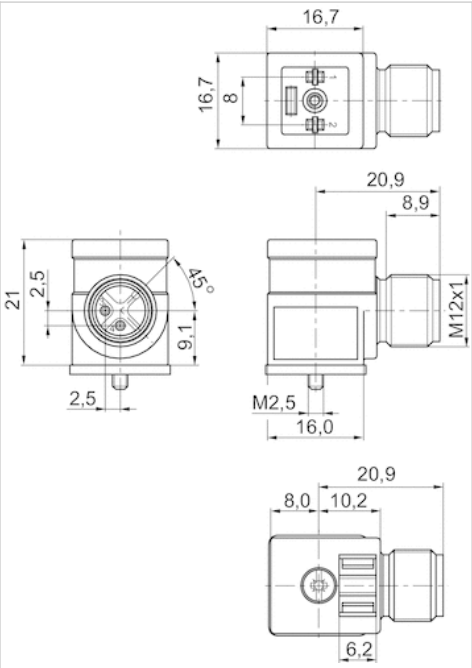
Part No.	Max. current	Protective circuit	Contact assignment	LED status display
R412009553	1 A	Varistor	2+E	Yellow

Technical information

Material	
Housing	Polyurethane

Dimensions

Dimensions



Transition plate, Series AS1, AS2, AS3, AS5



Weight

0.055 lbs

Technical data

Part No.
R412006360

Scope of delivery incl. 4 mounting screws, 2 O-rings

Technical information

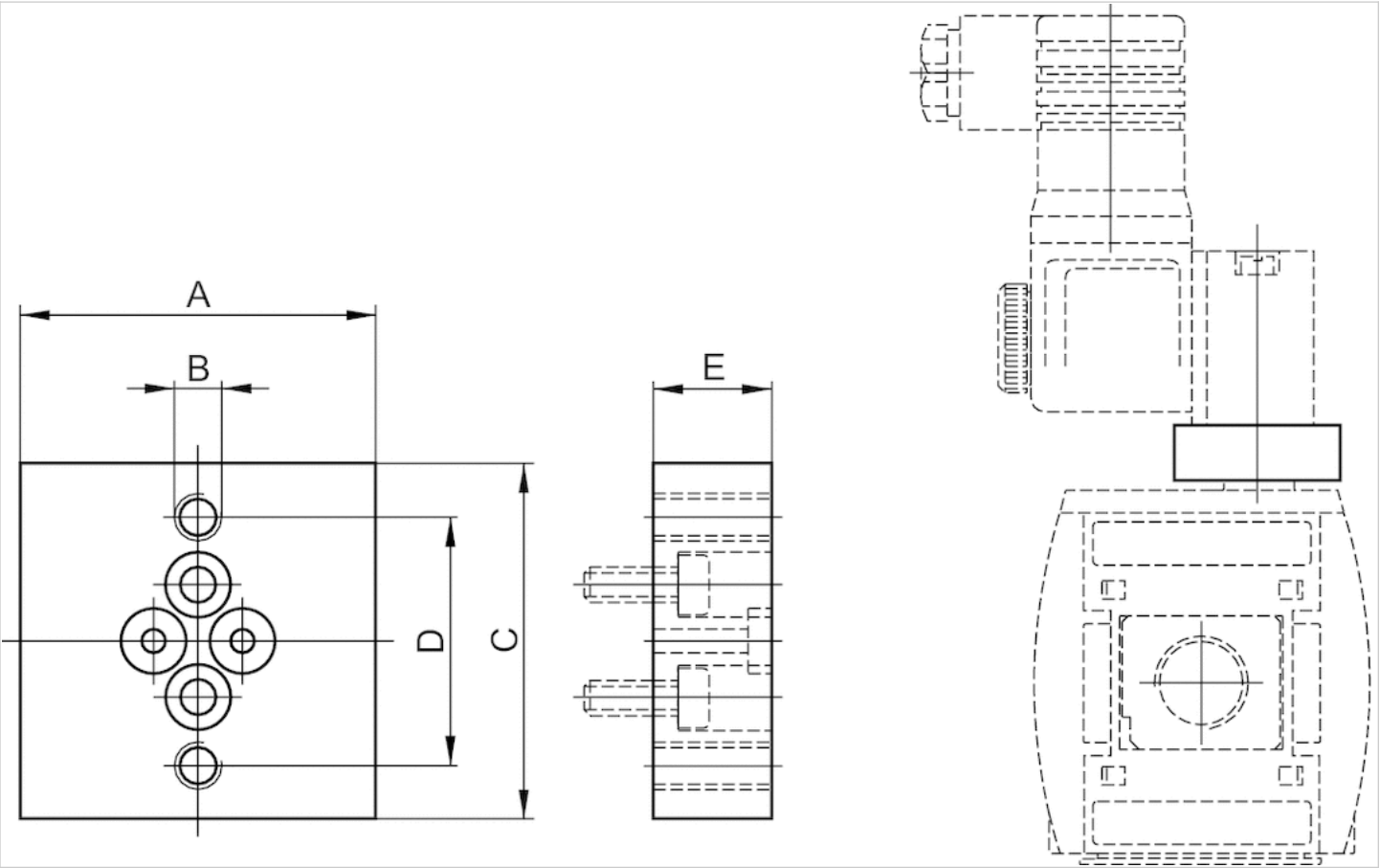
Adapter plate for assembling a series DO30 pilot valve with CNOMO porting configuration on a 3/2-way shut-off valve without pilot

Technical information

Material	
Material	Aluminum

Dimensions

Dimensions



Dimensions

Part No.	A	B	C	D	E
R412006360	30	M4	30	21	10

Adapter

- For connection of pneumatic actuation, G 1/8
- G 1/8
- AS1, AS2, AS3, AS5



Weight

0.042 lbs

Technical data

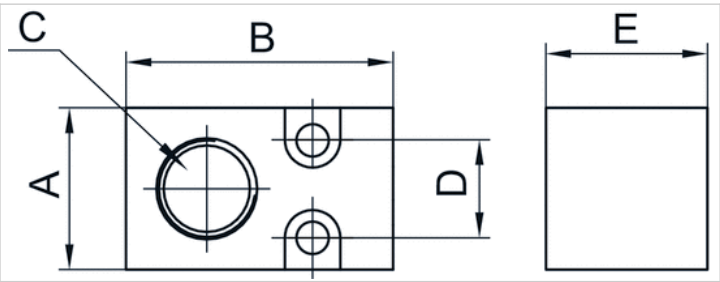
Part No.	Port G
R412006359	G 1/8

Delivery incl. 2 mounting screws M3x20, Flat gasket

Technical information

Material	
Material	Aluminum

Dimensions



Dimensions

Part No.	A	B	C	D	E
R412006359	16	26,5	G 1/8	9.7	16

Adapter for external pilot air



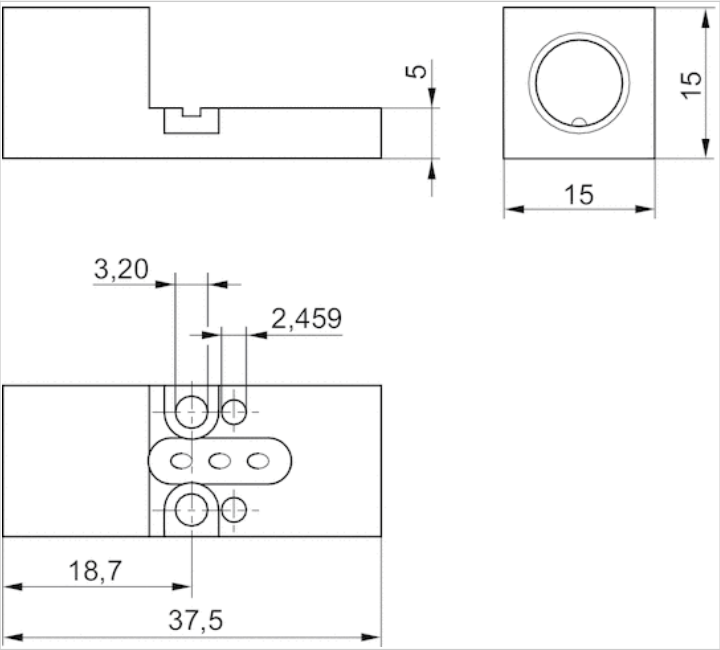
Technical data

Part No.
R412025904

Delivery incl. 1 seal plate, 1 screw 3x10, 1 screw DIN 84-M3x18

Dimensions

Dimensions



Mounting aid

- Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical push-in fitting, form C.



Technical data

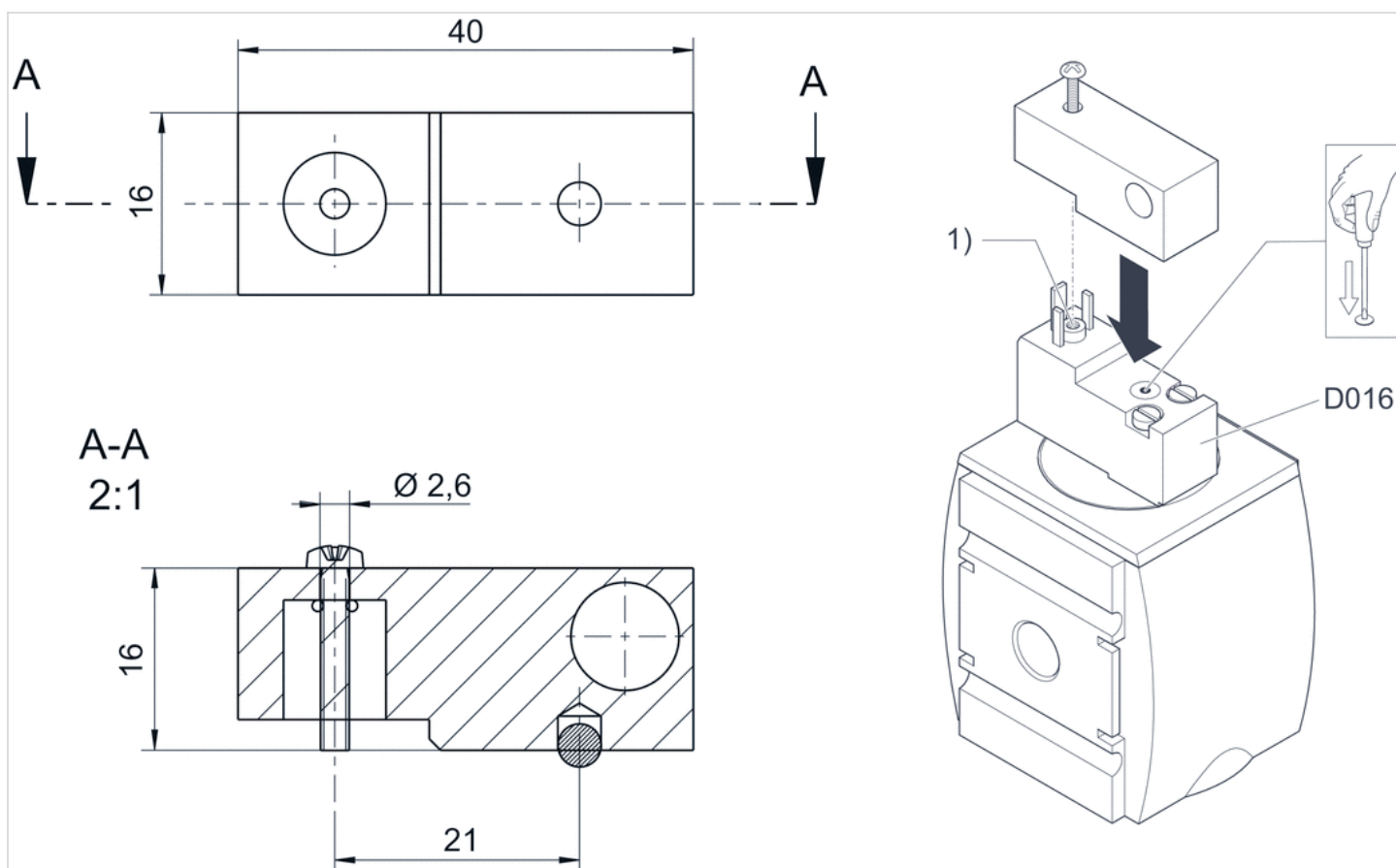
Part No.
R412019278

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

Technical information

Material	
Housing	Aluminum

Dimensions



1) ISO 15217, form C

Mounting aid

- Assembly aid for permanent actuation of manual override ("press") on pilot valve DO16 with electrical connection M12x1.



Weight0.051 lbs

Technical data

Part No.
R412015193

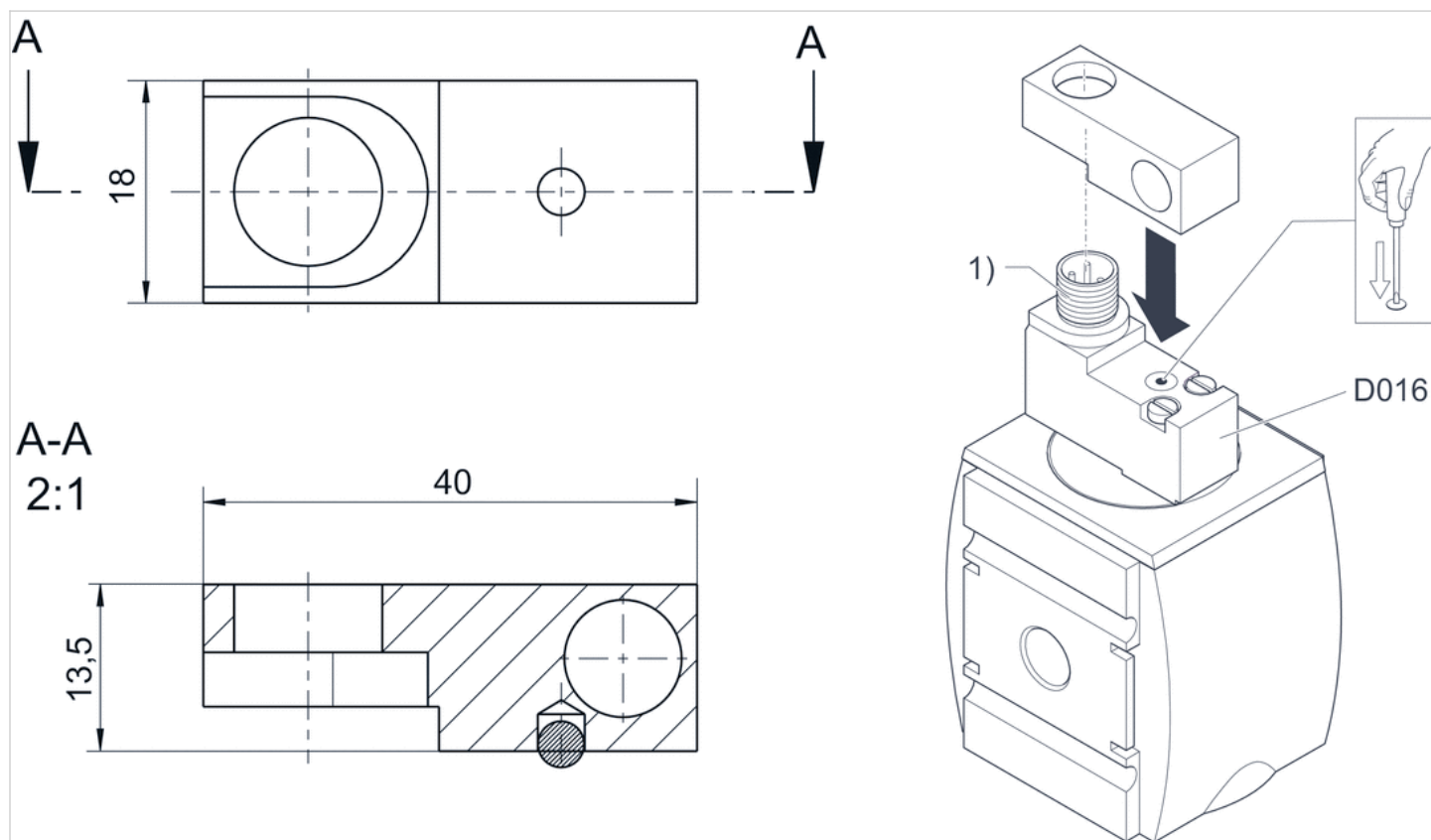
Technical information

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

Technical information

Material	
Housing	Aluminum

Dimensions



1) M12x1

mortise lock

- for AS2, AS3, AS5



Technical data

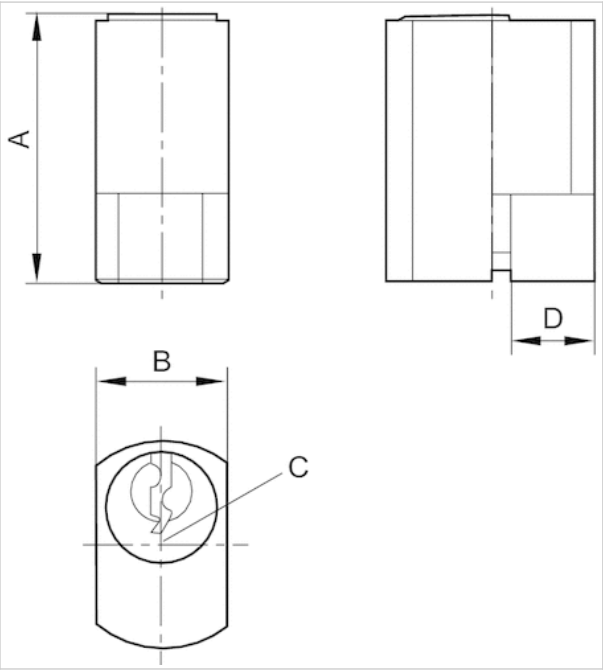
Part No.	Type
R412007959	Standard locking, with key
R412006374	E11 locking, without key

Technical information

Material	
Housing	Steel

Dimensions

Dimensions

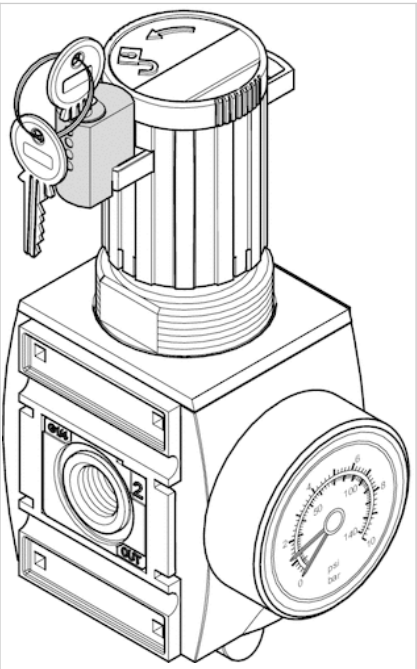


Dimensions

Part No.	A	B	C	D	E
R412007959	25	13	R10	Ø8	20
R412006374	25	13	R10	Ø8	20

Dimensions

Application example



Key for E11 locking

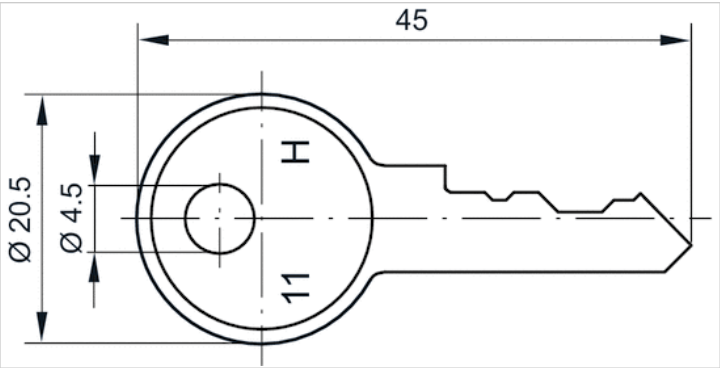


Technical data

Part No.	Delivery unit
R961403407	1 piece

Dimensions

Dimensions



Pressure sensor, Series PE5

- Operating pressure -14.5 ... 0, -14.5 ... 14, 0 ... 87, 0 ... 145, 0 ... 174 psi
- electronic
- Output signal analog 4 ... 20 mA
- Output signal digital 2 outputs, 1 output
- 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.	32 ... 140 °F
Medium temperature min./max.	32 ... 140 °F
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	0.088 lbs

Technical data

Part No.		Operating pressure range	Protection against overpressure
		min./max.	
R412010761		-14.5 ... 0 psi	72.5 psi
R412010769		-14.5 ... 0 psi	72.5 psi
R412010775		-14.5 ... 0 psi	72.5 psi
R412010763		-14.5 ... 14 psi	72.5 psi
R412010771		0 ... 87 psi	217.5 psi
R412010765		0 ... 87 psi	217.5 psi
R412010777		0 ... 87 psi	217.5 psi
R412010773		0 ... 145 psi	217.5 psi
R412010767		0 ... 145 psi	217.5 psi
R412010779		0 ... 145 psi	217.5 psi
R412010782		0 ... 174 psi	232 psi
R412010806		0 ... 174 psi	232 psi

Part No.	Output signal	Output signal
	Analog	digital
R412010761	-	2 outputs-PNP, NPN, Push-pull
R412010769	1 output-0 - 10 V DC-4 ... 20 mA	1 output-PNP, NPN, Push-pull
R412010775	-	1 output-PNP, NPN, push-pull, 1x IO-Link
R412010763	-	2 outputs-PNP, NPN, Push-pull
R412010771	1 output-0 - 10 V DC-4 ... 20 mA	1 output-PNP, NPN, Push-pull
R412010765	-	2 outputs-PNP, NPN, Push-pull
R412010777	-	1 output-PNP, NPN, push-pull, 1x IO-Link
R412010773	1 output-0 - 10 V DC-4 ... 20 mA	1 output-PNP, NPN, Push-pull
R412010767	-	2 outputs-PNP, NPN, Push-pull
R412010779	-	1 output-PNP, NPN, push-pull, 1x IO-Link
R412010782	-	2 outputs-PNP, NPN, Push-pull
R412010806	-	1 output-PNP, NPN, push-pull, 1x IO-Link

Part No.	Fig.
R412010761	Fig. 1
R412010769	Fig. 1
R412010775	Fig. 1
R412010763	Fig. 1
R412010771	Fig. 1
R412010765	Fig. 1
R412010777	Fig. 1
R412010773	Fig. 1
R412010767	Fig. 1
R412010779	Fig. 1
R412010782	Fig. 1
R412010806	Fig. 1

Technical information

Alternative pressure connection (G1/4) on the rear side (closed with plug)

Display color selectable, red or green

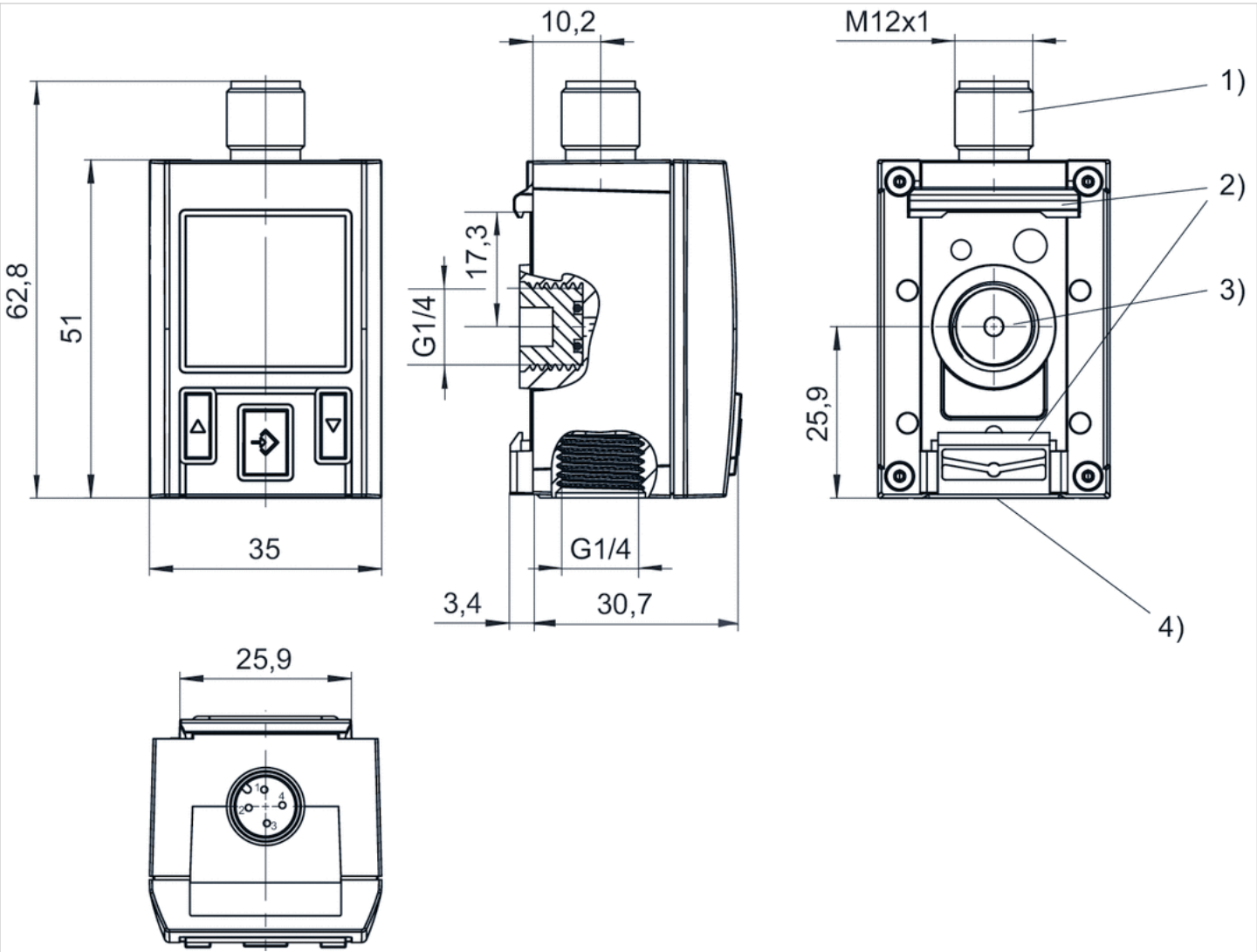
The IO-Link device description (IODD) for the PE5 pressure sensor is available for download in the Media Centre.

Technical information

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

Dimensions

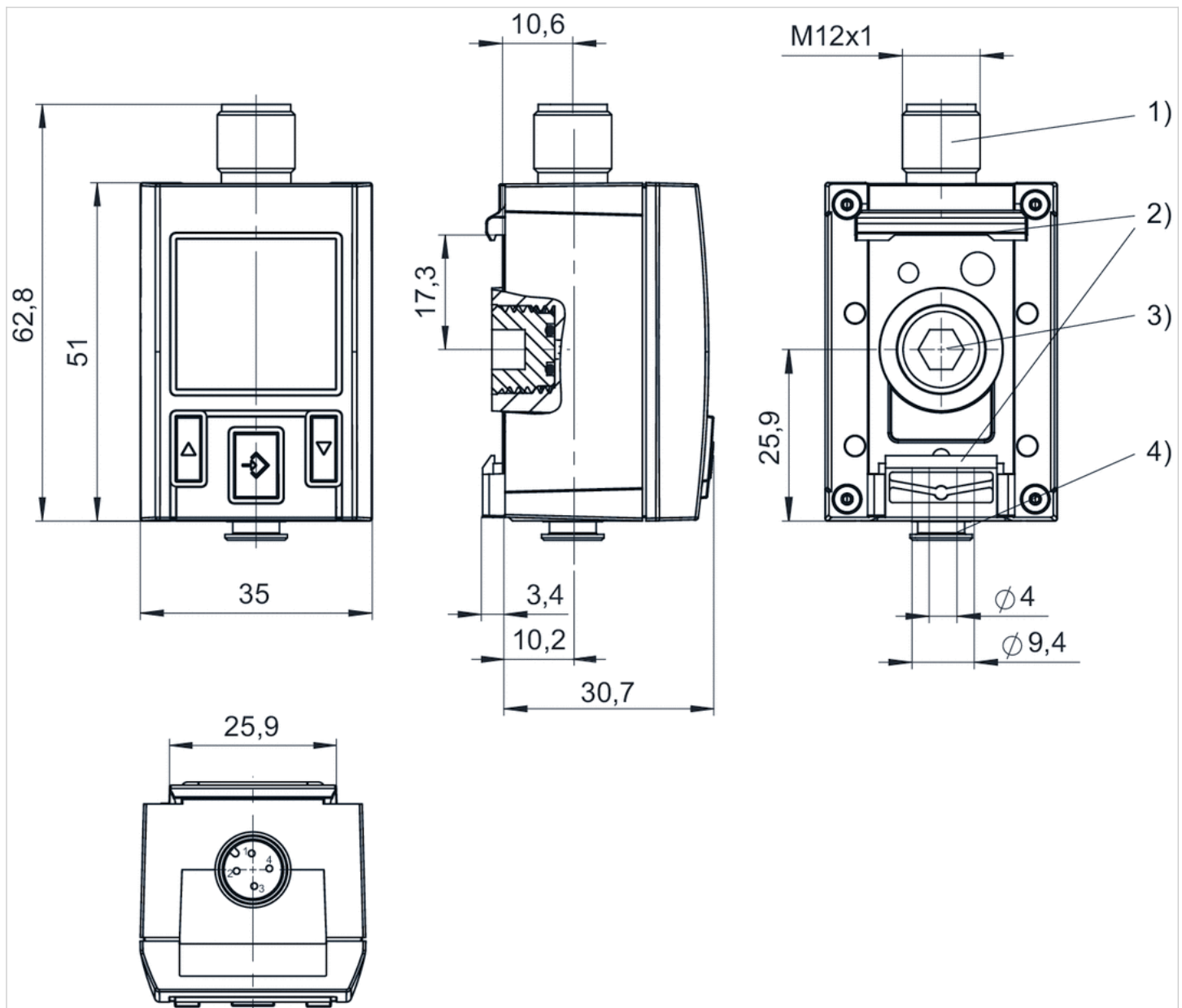
Fig. 1



- 1) M12x1 electrical connection
- 2) Mounting for hat rail and wall mounting

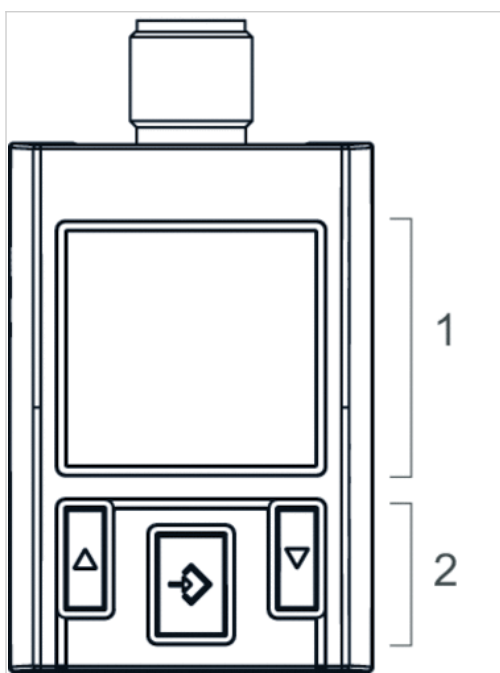
- 3) Alternative pressure connection (G1/4) closed with plug
4) Pressure connection G1/4

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 $\phi 4$ mm

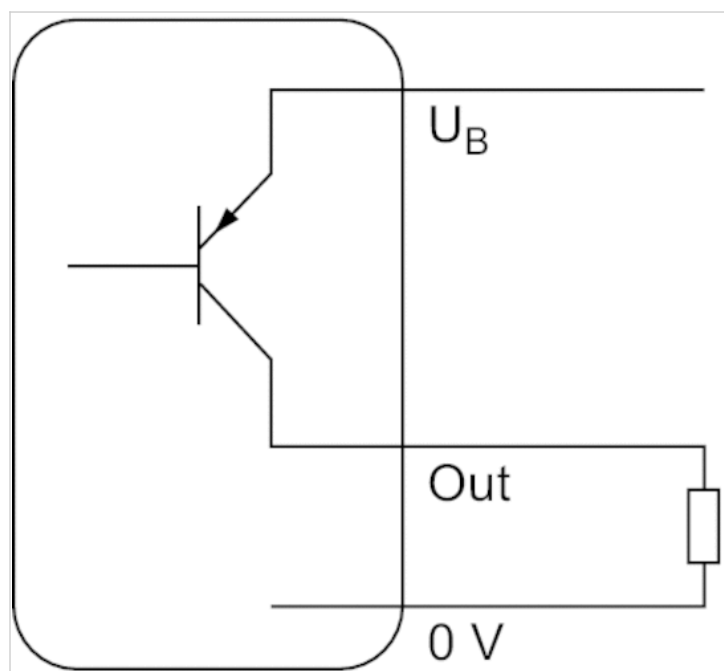
Display and operation area



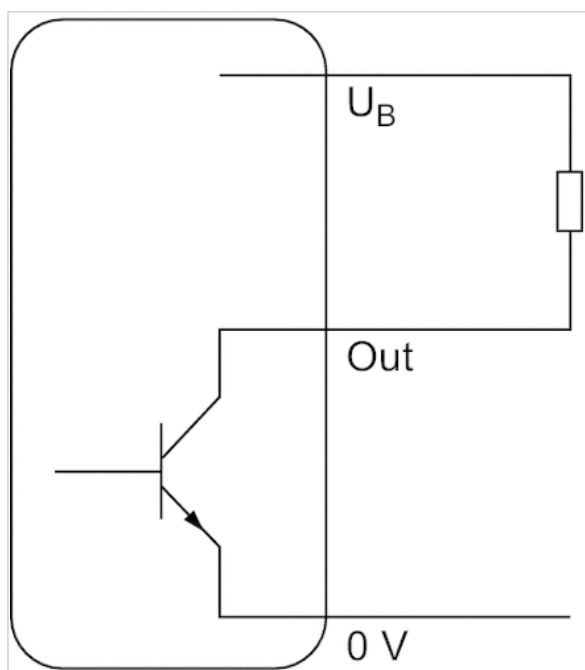
- 1) LCD display
- 2) Control panel with 3 buttons

Diagrams

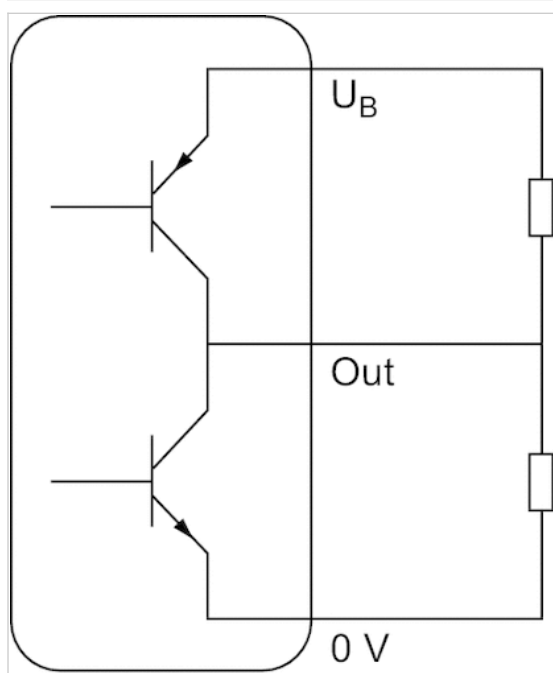
Operating mode PNP



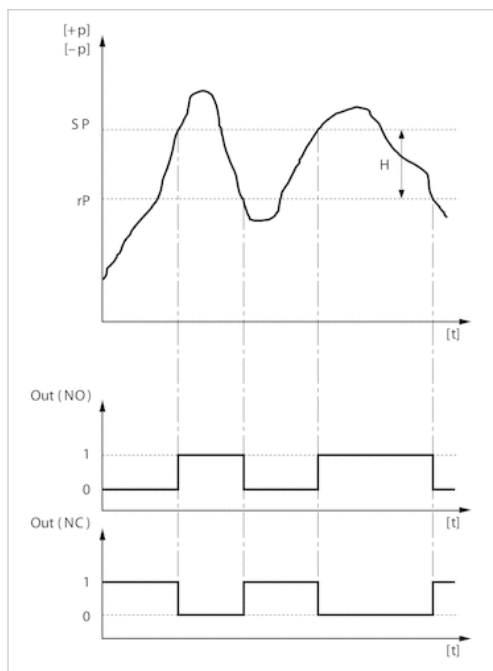
Operating mode NPN



Operating mode Push-pull



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



H: Hysteresis

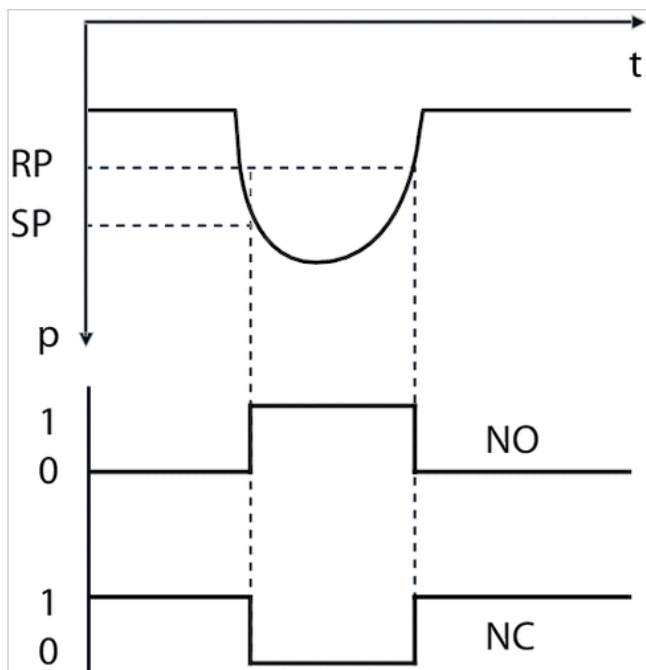
SP = switching point

RP = resetting point

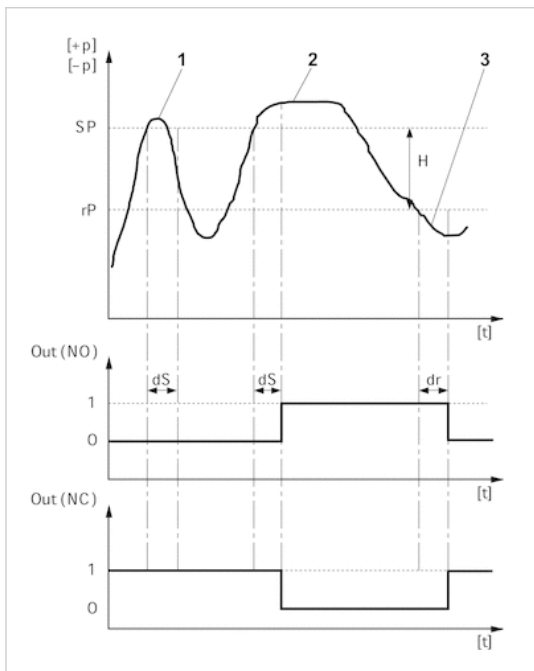
Out (NC): switch output, break contact

Out (NO): switch output, make contact

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



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



H: Hysteresis

SP = switching point

RP = resetting point

Out (NC): switch output, break contact

Out (NO): switch output, make contact

dS: switching delay

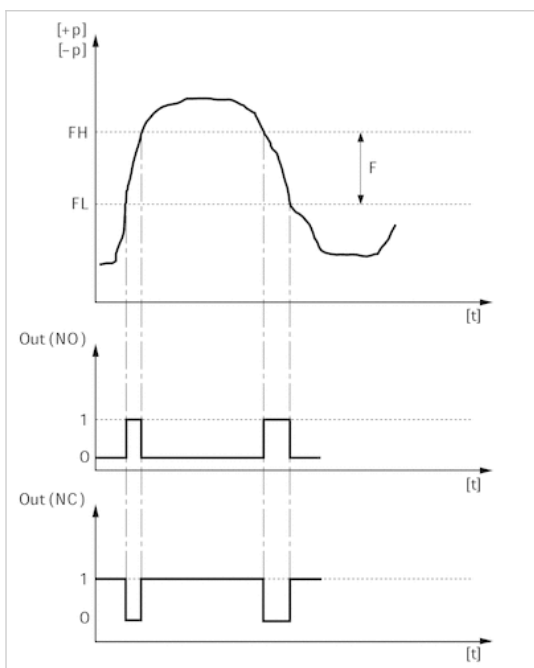
dR = reset delay

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

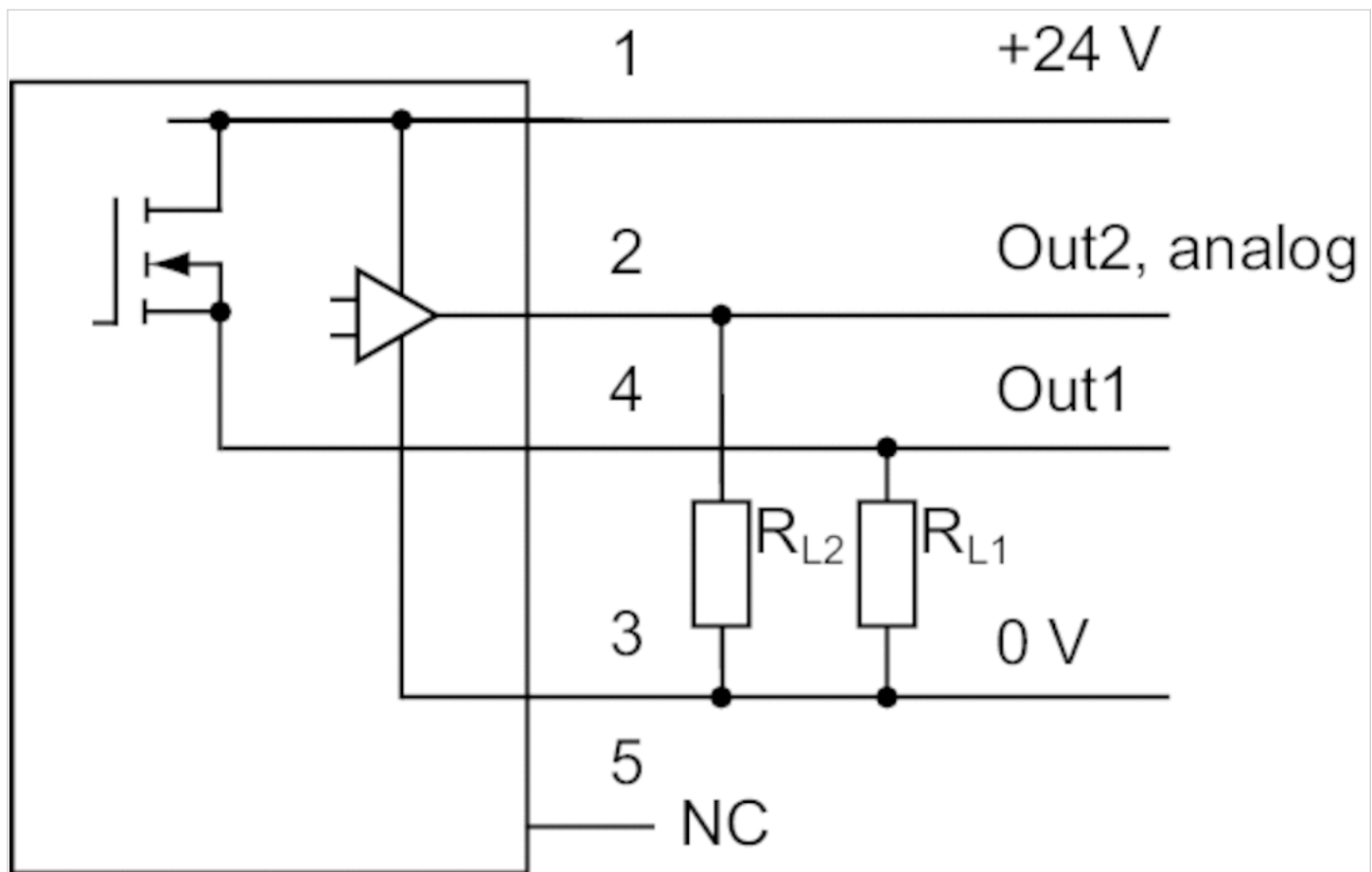
FL: pressure band, lower value

Out (NC): switch output, break contact

Out (NO): switch output, make contact

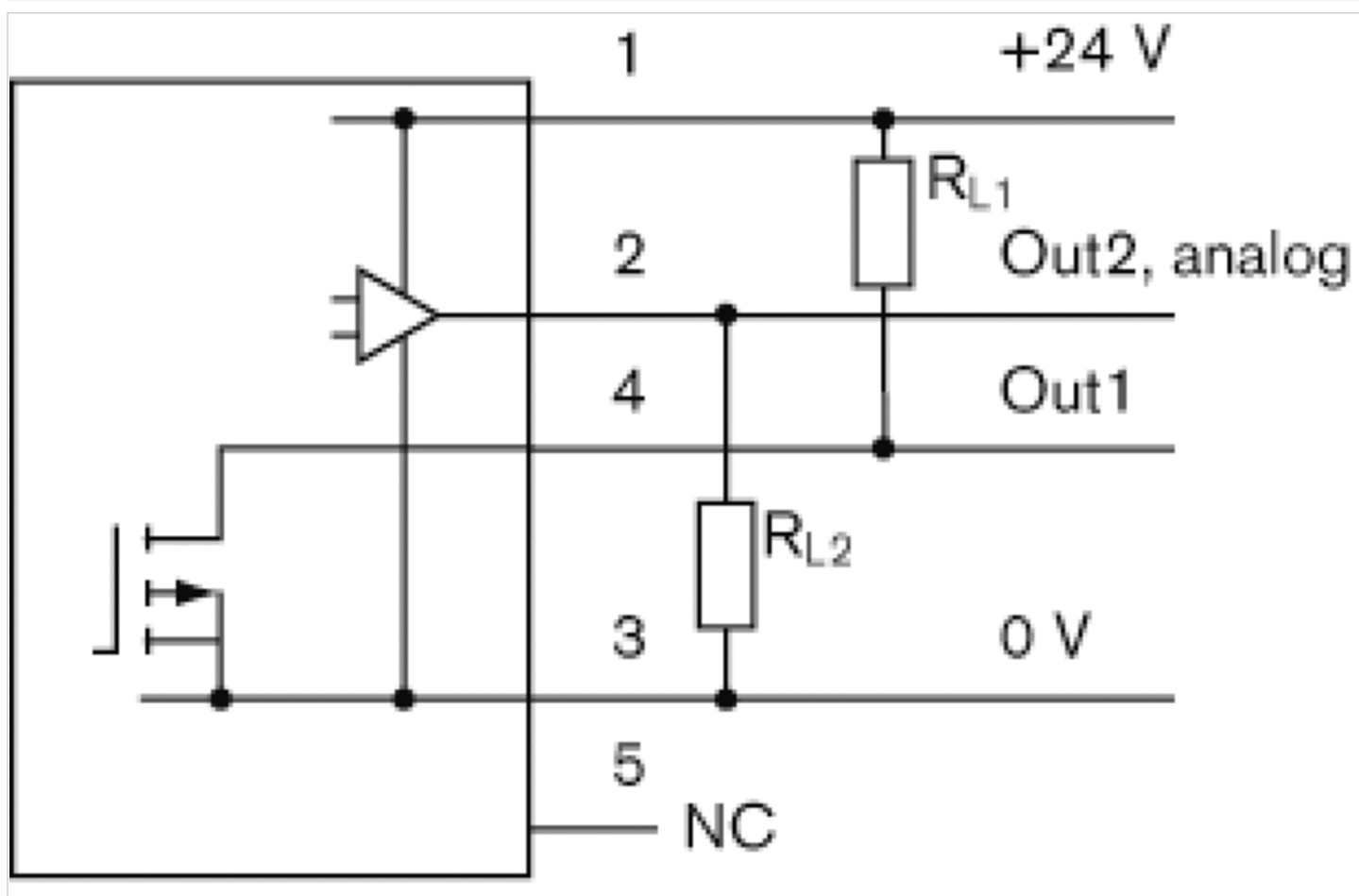
Circuit diagram

Block diagram 1x PNP and 1x analog



RL = storable position

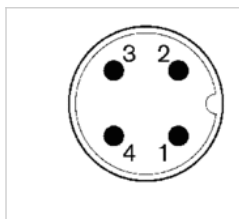
Block diagram 1x NPN and 1x analog



R_L = storable position

Pin assignments

Pin assignments M12x1



operational voltage + UB

Pin 2: switch output Out2, analog: A or V, digital: PNP, NPN, push-pull

Pin 3: 0 V

Pin 4: switch output Out1, digital: PNP, NPN, push-pull

Pressure sensor, Series PE2

- Operating pressure 0 ... 14, 0 ... 232 psi
- electronic
- Output signal analog 4 ... 20 mA
- Output signal digital 1 x PNP, 2 x PNP
- 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.	14 ... 167 °F
Medium temperature min./max.	14 ... 167 °F
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	0.661 lbs

Technical data

Part No.		Type	Operating pressure range
			min./max.
R412010848		PE2-P1-G014-V10-010-M012	0 ... 14 psi
R412010849		PE2-P1-F001-V10-010-M012	0 ... 14 psi
R412010853		PE2-P2-G014-V10-010-M012	0 ... 14 psi
R412010856		PE2-PA-G014-V10-010-M012	0 ... 14 psi
R412010850		PE2-P1-G014-000-160-M012	0 ... 232 psi
R412010851		PE2-P1-F001-000-160-M012	0 ... 232 psi
R412010854		PE2-P2-G014-000-160-M012	0 ... 232 psi
R412010855		PE2-P2-F001-000-160-M012	0 ... 232 psi
R412010857		PE2-PA-G014-000-160-M012	0 ... 232 psi
R412010858		PE2-PA-F001-000-160-M012	0 ... 232 psi

Part No.	Protection against overpressure	Output signal	Output signal	Compressed air connection
		Analog	digital	
R412010848	145 psi	-	1 x PNP	Internal thread, G 1/4
R412010849	145 psi	-	1 x PNP	Flange with O-ring, Ø 5x1,5
R412010853	145 psi	-	2 x PNP	Internal thread, G 1/4
R412010856	145 psi	4 ... 20 mA	1 x PNP	Internal thread, G 1/4
R412010850	580 psi	-	1 x PNP	Internal thread, G 1/4
R412010851	580 psi	-	1 x PNP	Flange with O-ring, Ø 5x1,5
R412010854	580 psi	-	2 x PNP	Internal thread, G 1/4
R412010855	580 psi	-	2 x PNP	Flange with O-ring, Ø 5x1,5
R412010857	580 psi	4 ... 20 mA	1 x PNP	Internal thread, G 1/4
R412010858	580 psi	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
	At the flange connection: Nitrile butadiene rubber and fluororubber

Dimensions

Fig. 1

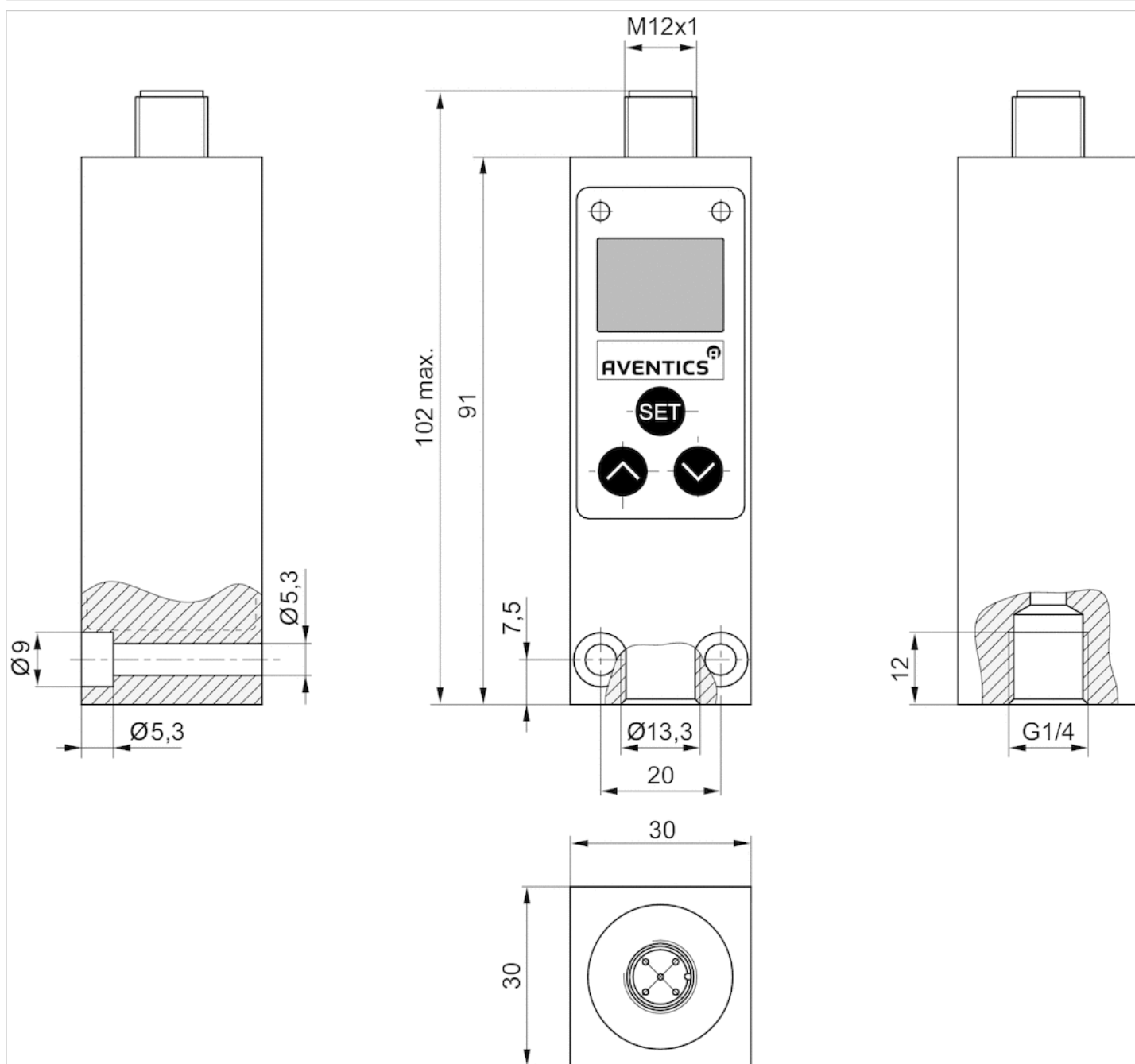
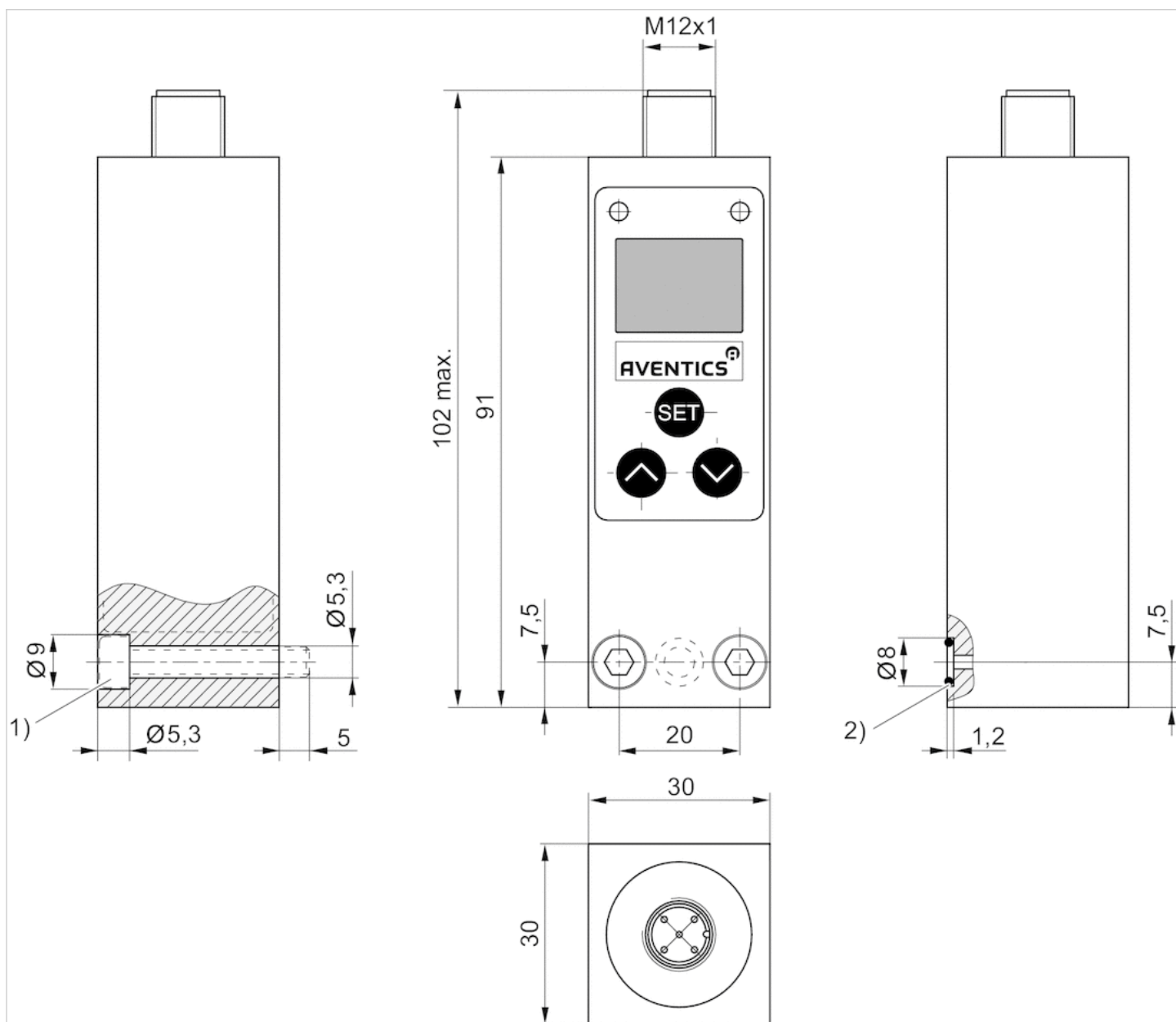


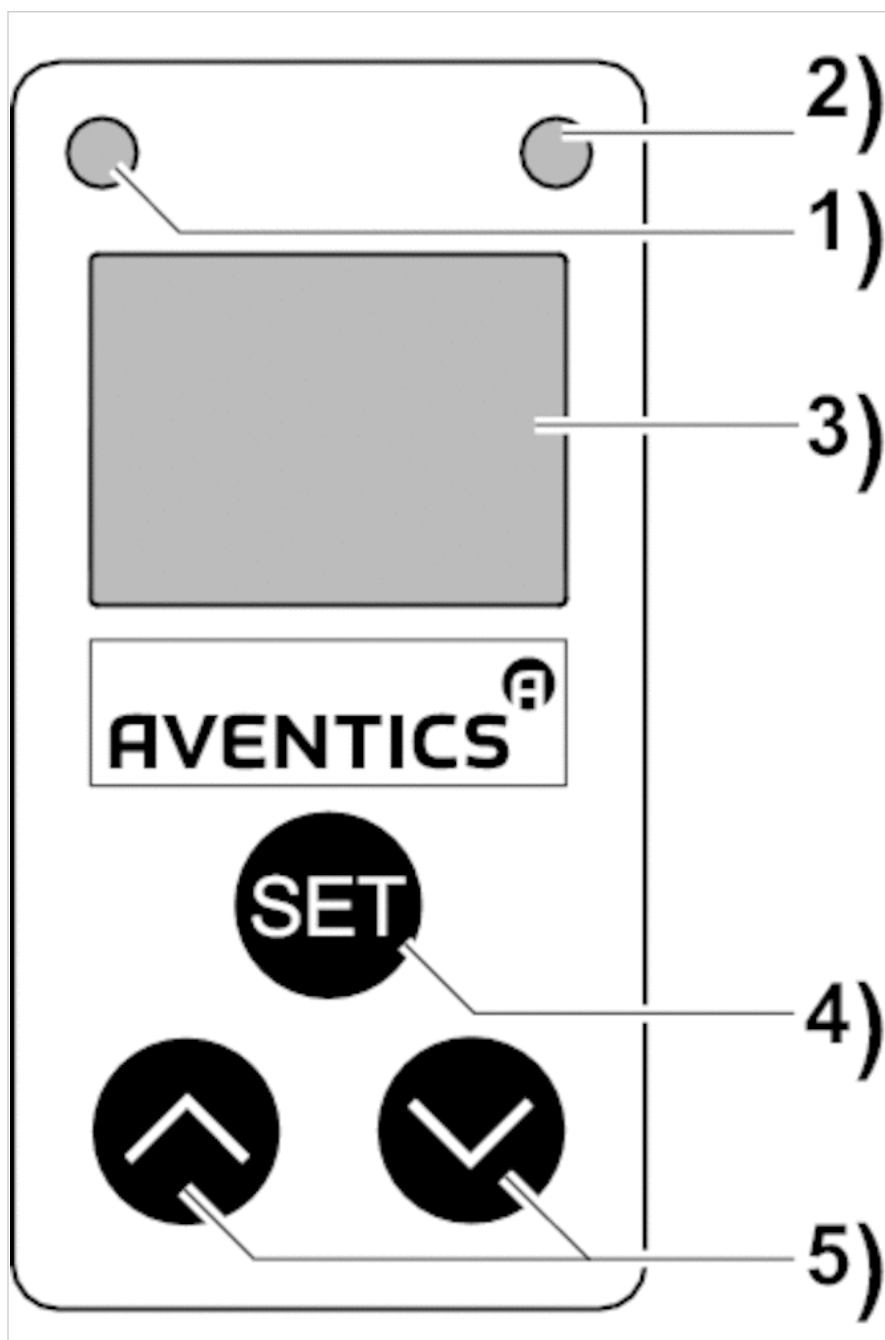
Fig. 2



1) cylinder screw M5x35 (included in scope of delivery)

2) O-ring Ø5x1,5 (included)

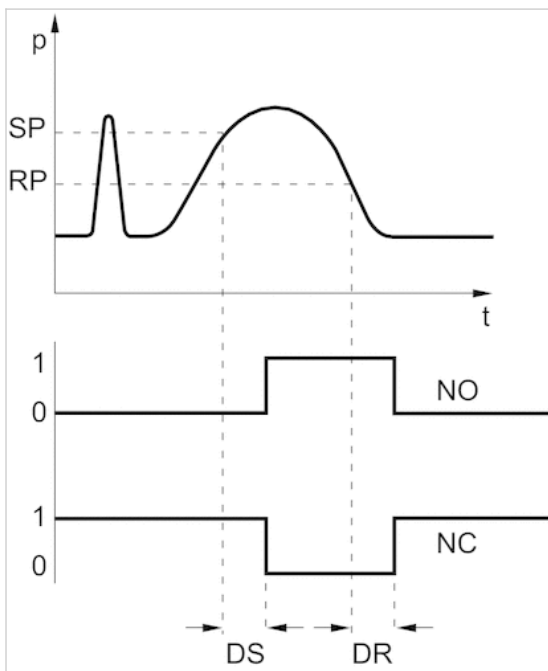
Display and operation area



- 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

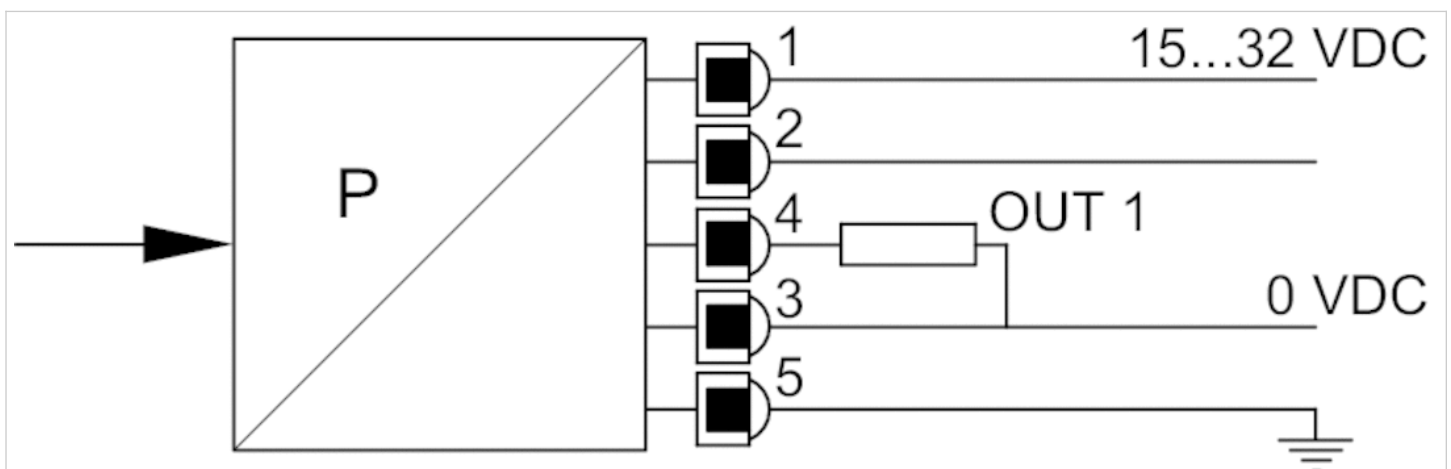
NC = Switching function closed without current

DS = Delay for the switching point

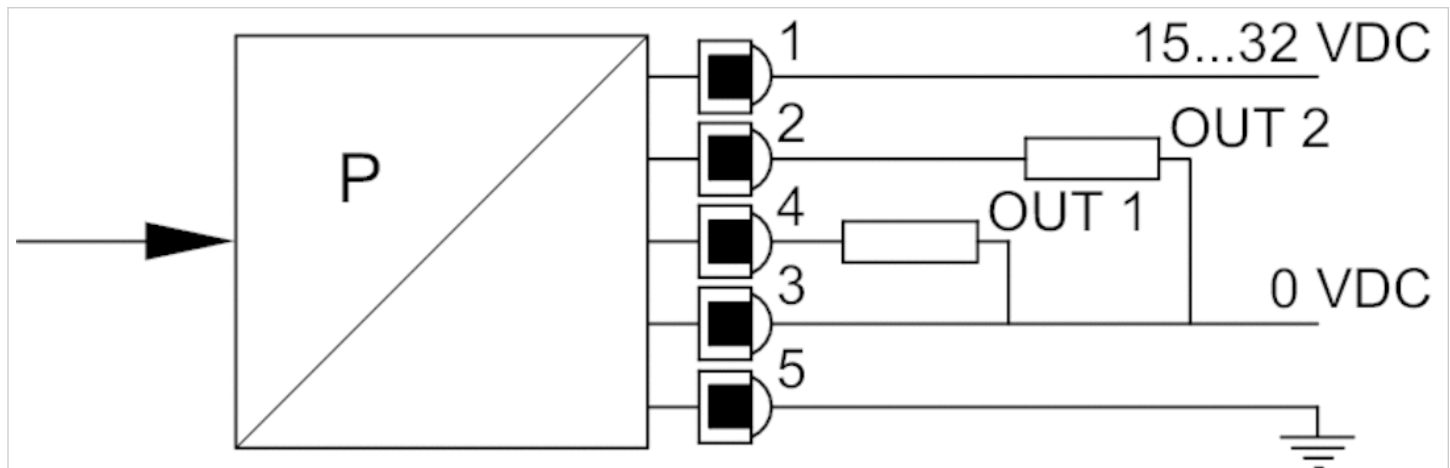
DR = Delay for the resetting point

Circuit diagram

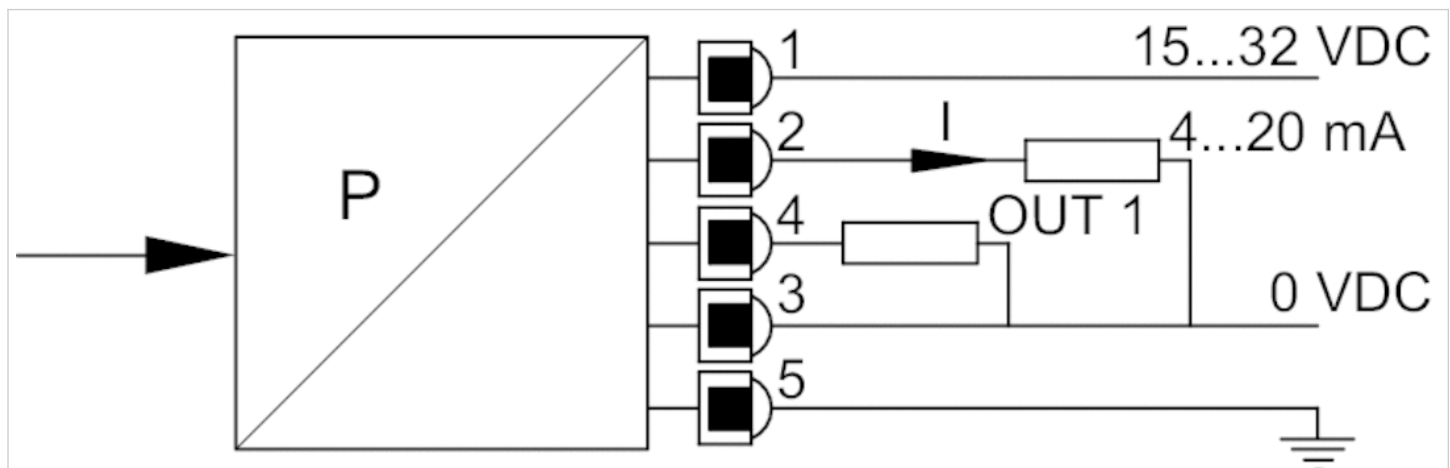
Block diagram 1 x PNP



Block diagram 2 x PNP

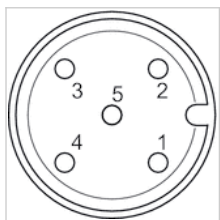


Block diagram 1x PNP and 1x analog



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 -13.05 ... 0, -13.05 ... 43, 2.9 ... 232 psi
- Mechanical
- Spring-loaded bellows, adjustable
- Electr. connection Plug, EN 175301-803, form A
- Compressed air connection Internal thread, G 1/4, Flange with O-ring, Ø 5x1,5



Type	Mechanical
Function	change-over contact (mechanical)
Mounting orientation	Any
Working pressure min./max.	See table below
Ambient temperature min./max.	-4 ... 176 °F
Medium temperature min./max.	14 ... 176 °F
Medium	Compressed air
Measurement	Relative pressure
Switching element	microswitch (input/output)
Protection against overpressure	1160 psi
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	0.353 lbs

Technical data

Part No.		Type	Operating pressure range	Compressed air connection
			min./max.	
R412010711		PM1-M3-G014	-13.05 ... 0 psi	Internal thread, G 1/4
R412022752		PM1-M3-G014	-13.05 ... 43 psi	Internal thread, G 1/4
R412010712		PM1-M3-G014	2.9 ... 232 psi	Internal thread, G 1/4
R412010713		PM1-M3-G014	2.9 ... 232 psi	Internal thread, G 1/4
R412010714		PM1-M3-F001	-13.05 ... 0 psi	Flange with O-ring, Ø 5x1,5
R412010715		PM1-M3-F001	2.9 ... 232 psi	Flange with O-ring, Ø 5x1,5
R412010718		PM1-M3-F001	2.9 ... 232 psi	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.

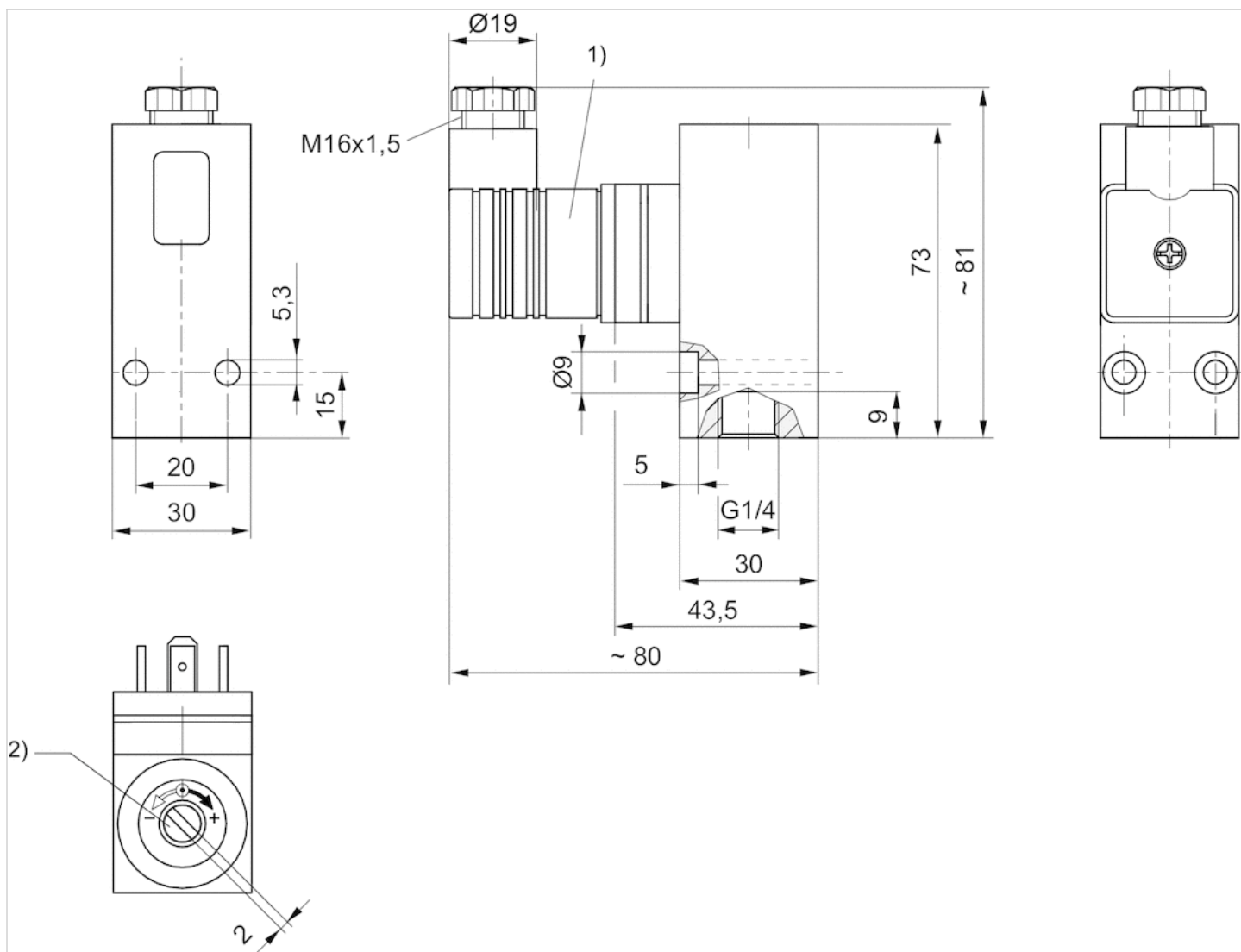
Please observe the pin assignment when selecting plug connectors.

Technical information

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

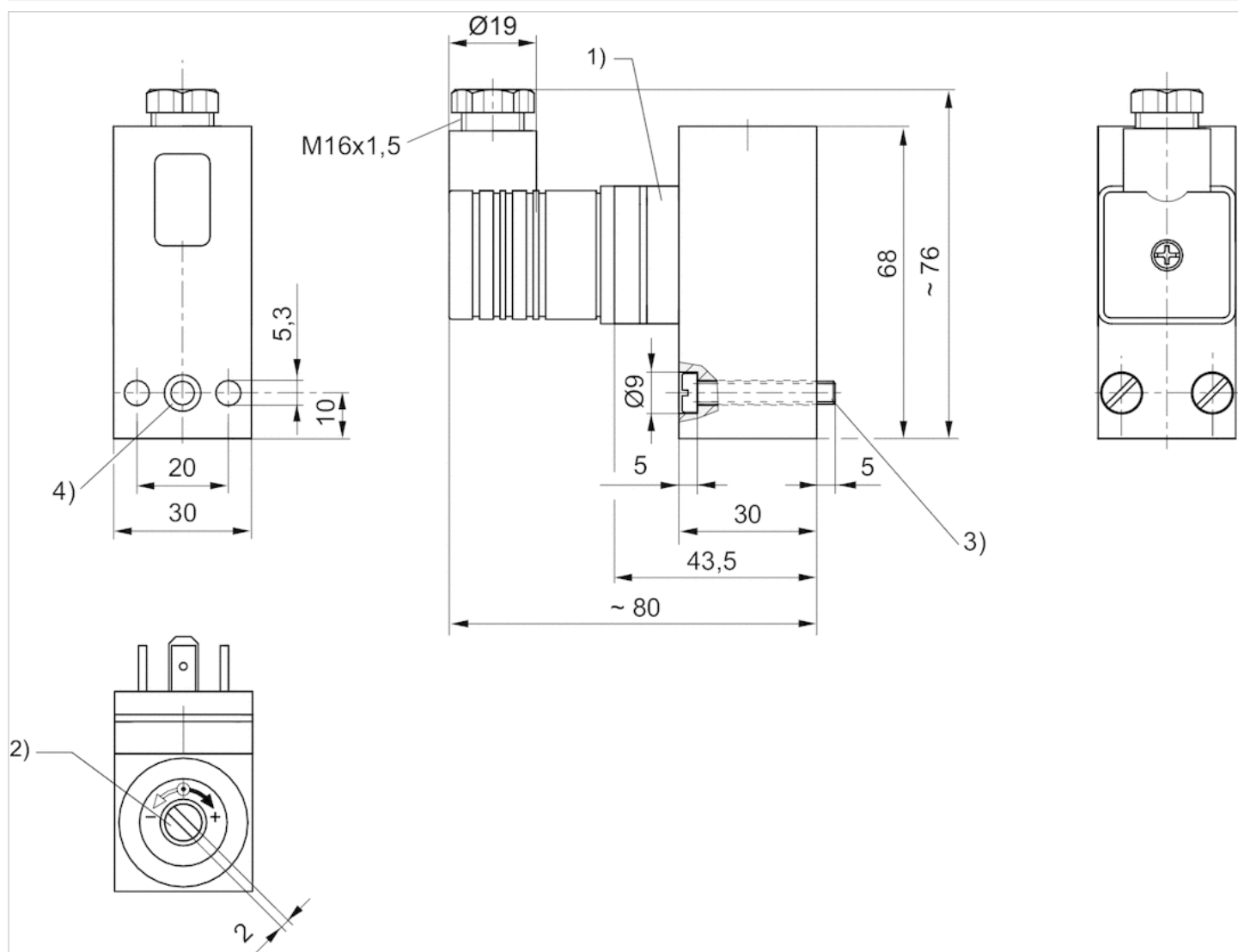
Dimensions

Fig. 1



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

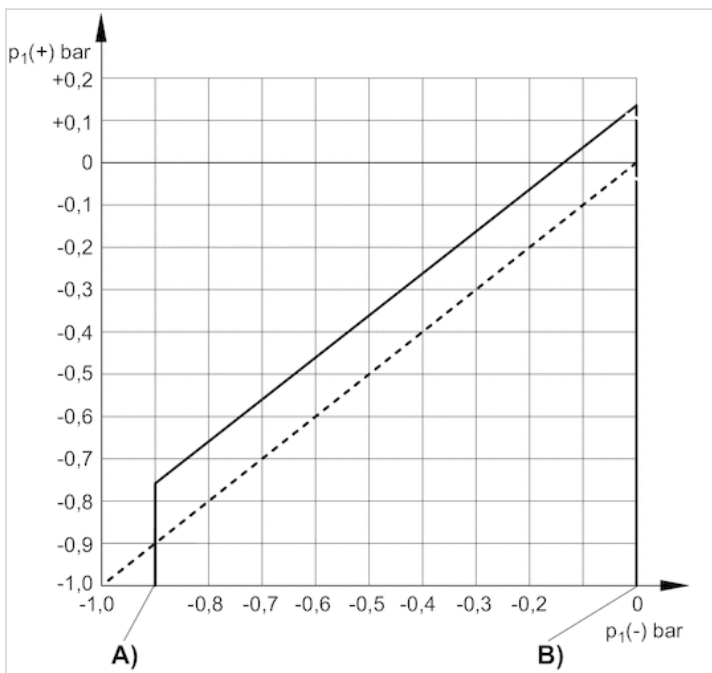
Fig. 2



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

Diagrams

differential switching pressure characteristic curve (-09 - 0 bar)



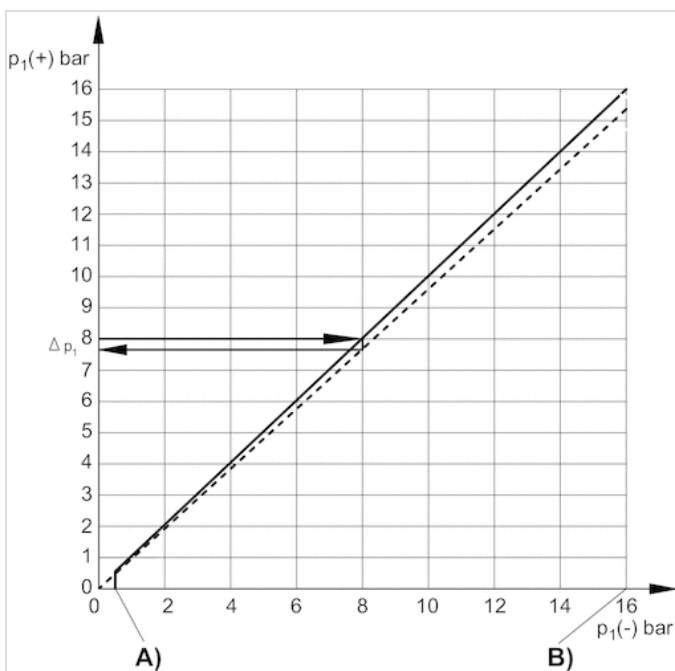
A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

differential switching pressure characteristic curve (02 - 16 bar)



A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

Δp_1 = max. operating pressure difference or hysteresis

Example:

$p1 (+) = 8 \text{ bar} > p1(-) = 7.6 \text{ bar}$
 $\Delta p1 = 0.4 \text{ bar}$

max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30	5	3
48	5	1,2
60	5	0,8
125	5	0,4
250	5	–

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC

max. permissible continuous current I max. [A] with inductive load

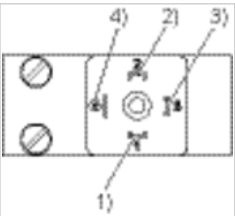
U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2
48	3	0.55
60	3	0.4
125	3	0.15
250	3	–

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC
- 3) $\cos \approx 0,7^\circ$
- 4) $L/R \approx 10 \text{ ms}$

Pin assignments

PIN assignment for valve plug connectors



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

Pressure Switches, Series PM1

- Operating pressure -13.05 ... 0, 2.9 ... 232 psi
- 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.	-4 ... 176 °F
Medium temperature min./max.	14 ... 176 °F
Medium	Compressed air
Measurement	Relative pressure
Switching element	microswitch (input/output)
Protection against overpressure	1160 psi
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	0.331 lbs

Technical data

Part No.		Type	Operating pressure range	Compressed air connection
			min./max.	
R412010716		PM1-M3-G014	-13.05 ... 0 psi	Internal thread, G 1/4
R412010717		PM1-M3-G014	2.9 ... 232 psi	Internal thread, G 1/4
R412010719		PM1-M3-F001	-13.05 ... 0 psi	Flange with O-ring, Ø 5x1,5
R412010720		PM1-M3-F001	2.9 ... 232 psi	Flange with O-ring, Ø 5x1,5

Part No.	Fig.	
R412010716	Fig. 1	-
R412010717	Fig. 1	1)
R412010719	Fig. 2	-
R412010720	Fig. 2	1)

1) Min. switching pressure range 0.2 bar falling/0.5 bar rising

Technical information

Switching function increasing pressure: contact switches from 1-2 to 1-3.

Switching function decreasing pressure: contact switches from 1-3 to 1-2.

Notice: Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!

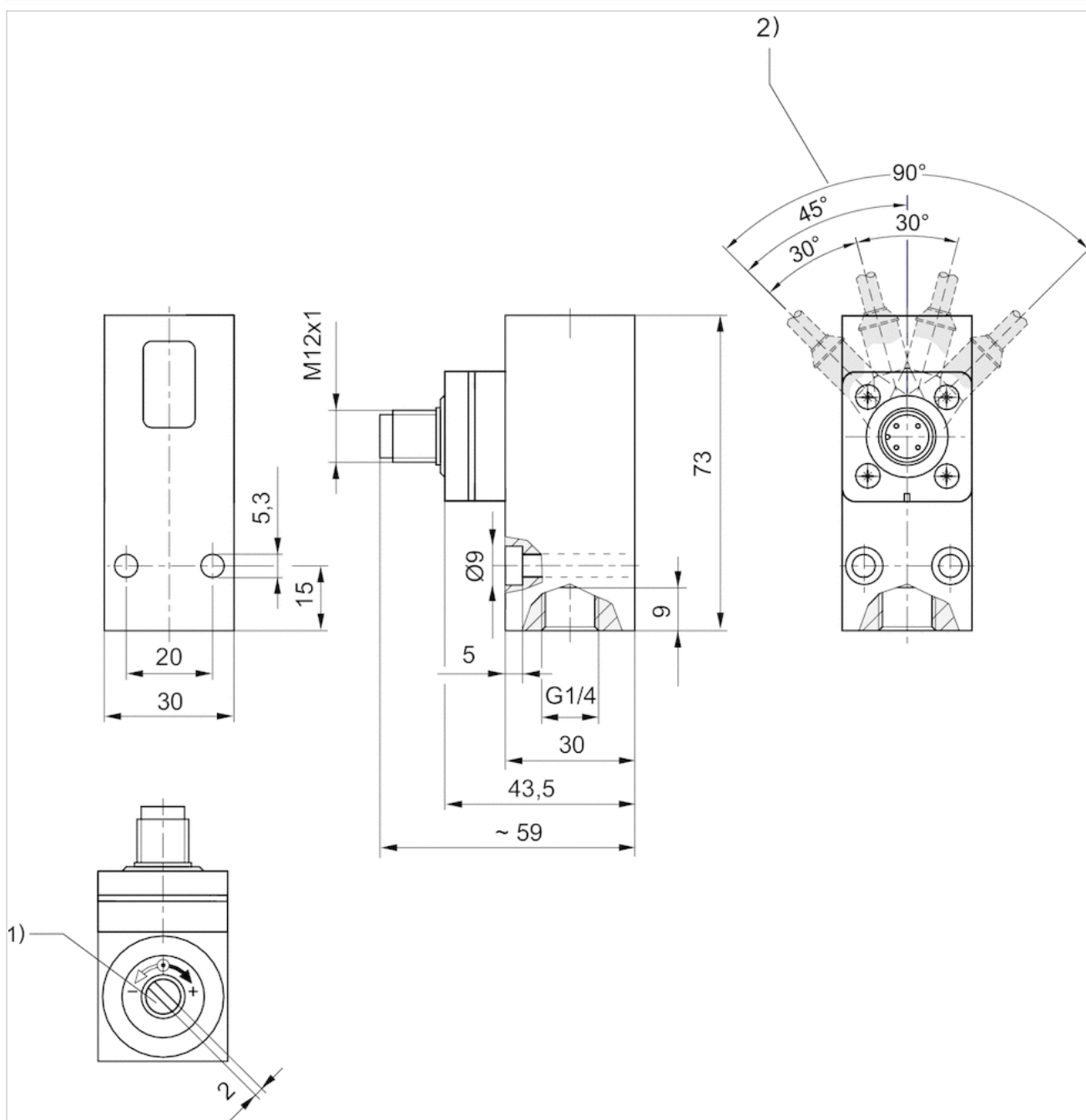
The microswitch has silver-plated contacts.

Technical information

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

Dimensions

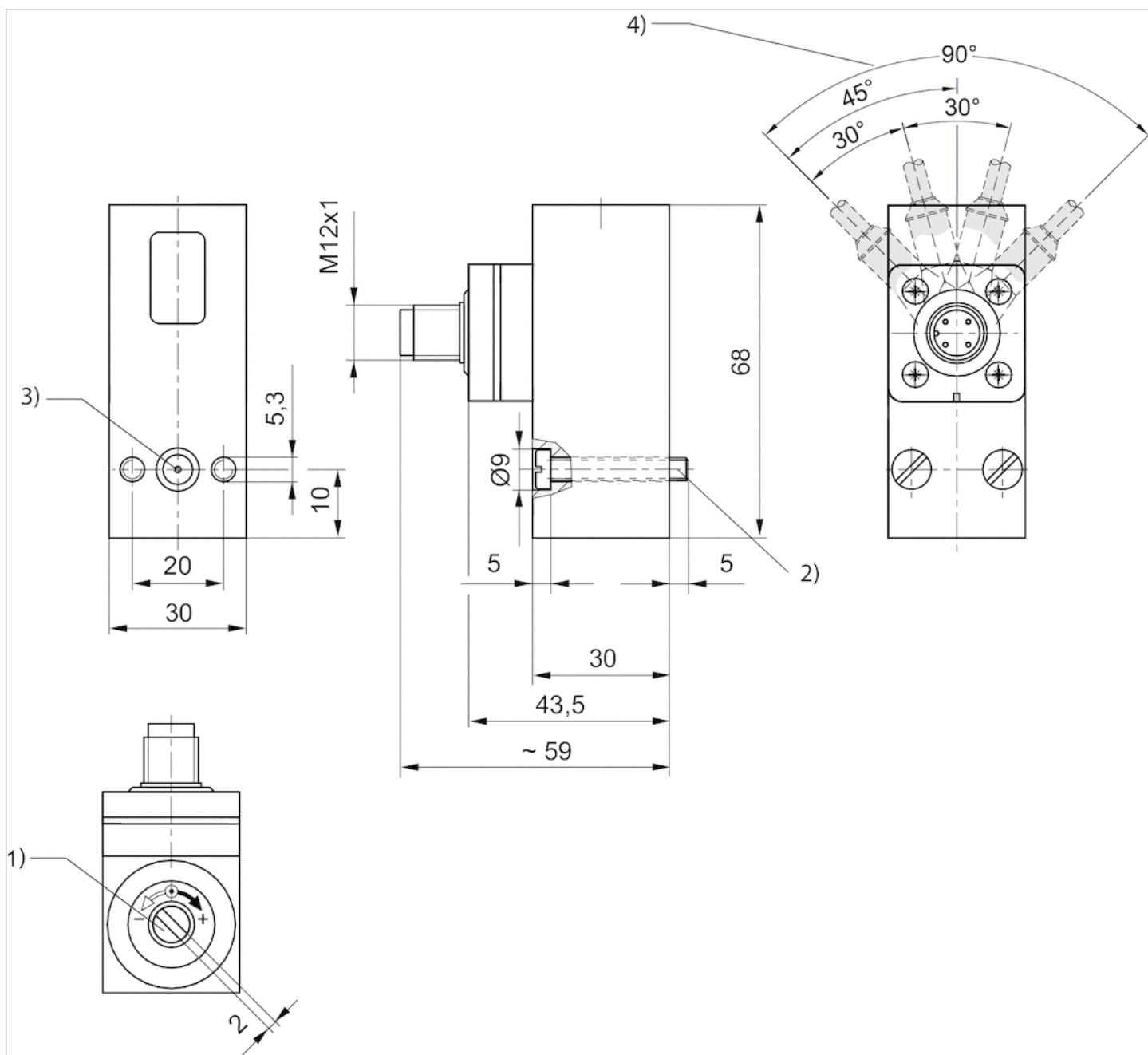
Fig. 1



1) Adjustment screw, self-holding

2) Detent position

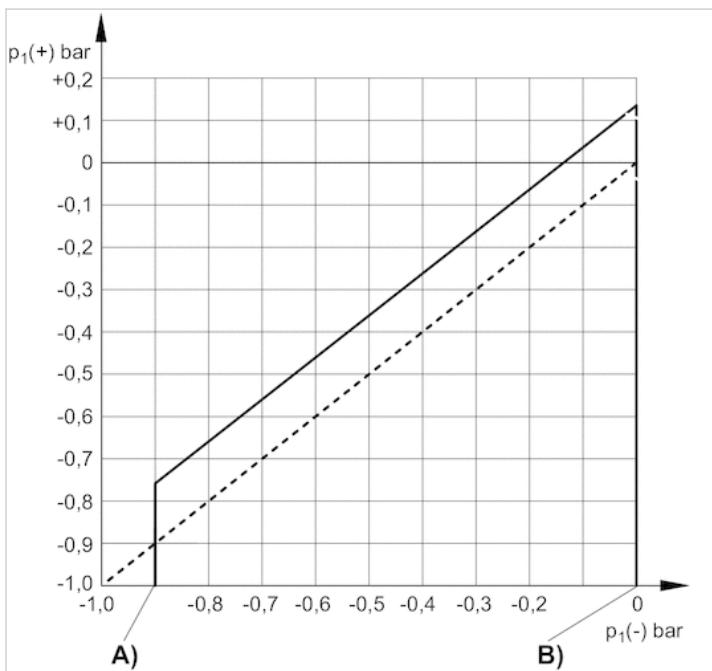
Fig. 2



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

Diagrams

differential switching pressure characteristic curve (-09 - 0 bar)



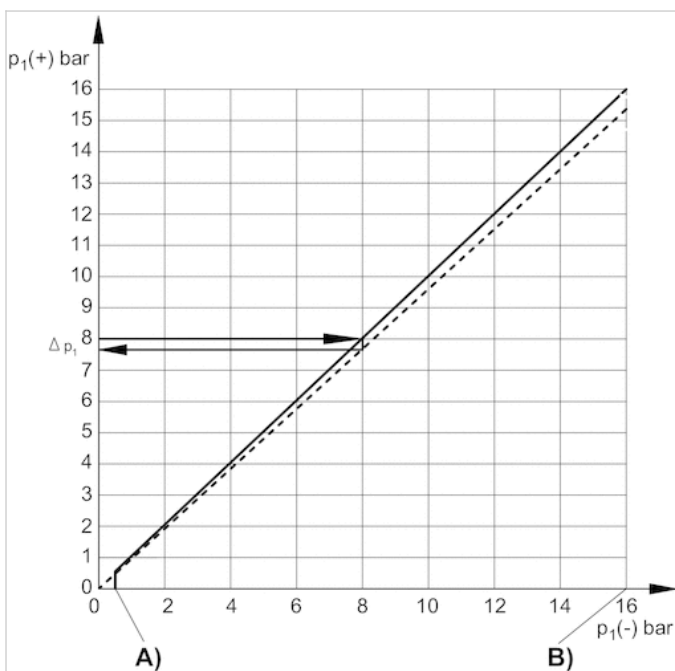
A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

differential switching pressure characteristic curve (02 - 16 bar)



A) $p_1(-)$, min.

B) $p_1(-)$, max.

$p_1(+)$ = upper switching pressure with increasing pressure

$p_1(-)$ = lower switching pressure with decreasing pressure

Δp_1 = max. operating pressure difference or hysteresis

Example:

$p_1 (+) = 8 \text{ bar} > p_1 (-) = 7.6 \text{ bar}$
 $\Delta p_1 = 0.4 \text{ bar}$

max. permissible continuous current I max. [A] with ohmic load

U [V]	I [A] 1)	I [A] 2)
30-250	3A	
30 / 48 / 60 / 125		3 / 1,2 / 0,8 / 0,4

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC

max. permissible continuous current I max. [A] with inductive load

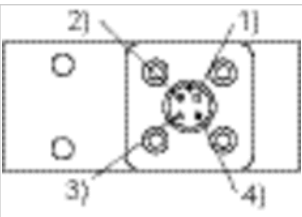
U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3A	
30 / 48 / 60 / 125		2 / 0,55 / 0,4 / 0,2

reference cycle: 30/min., reference temperature: + 30 °C

- 1) AC
- 2) DC
- 3) $\cos \approx 0,7^\circ$
- 4) $L/R \approx 10 \text{ ms}$

Pin assignments

Pin assignments



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

Sensor, Series ST6

- 6 mm T-slot
- with cable
- Plug, M12, 4-pin, with knurled screw
- UL certification
- Reed
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, ICM, KHZ, TRR



Certificates	CE declaration of conformity, cULus, RoHS
Ambient temperature min./max.	-22 ... 176 °F
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

Technical data

Part No.	for	Type of contact	Cable length L
R412022876	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	0.984 ft.

Part No.	Voltage drop U at I _{max}	DC switching current, max.
R412022876	≤ 0,1 V	0.3 A

Part No.	AC switching current, max.	Max. switching frequency
R412022876	0.5 A	400 Hz

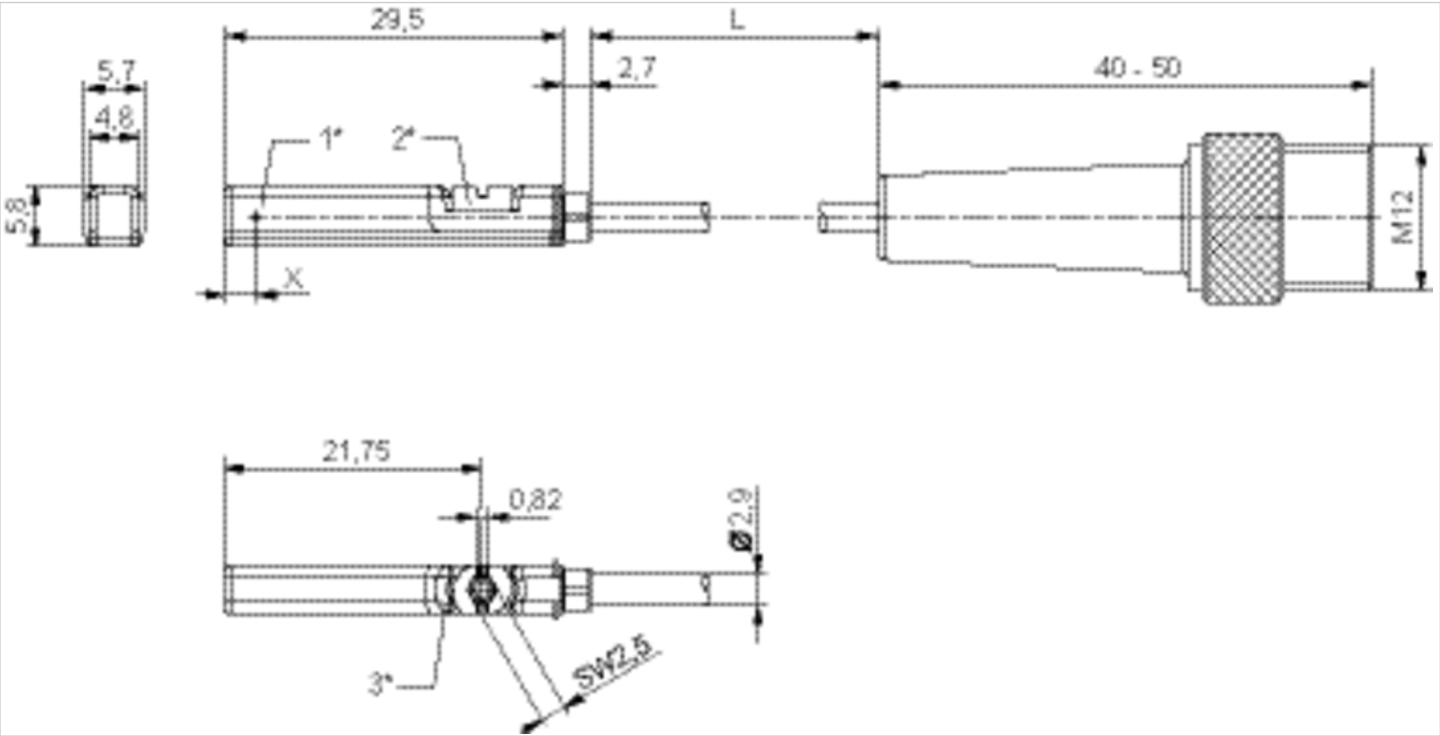
Part No.	Version
R412022876	Protected against polarity reversal

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

Pin assignments

Pin assignments



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

Sensor, Series ST6

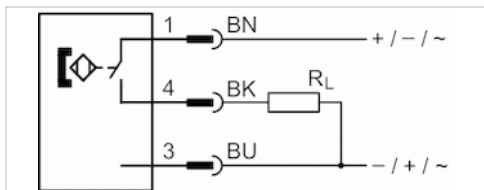
- 6 mm T-slot
- with cable
- Plug, M8, 3-pin, with knurled screw
- UL certification
- Reed
- Direct mounting for series PRA, PRE, CCI, KPZ, SSI, GPC, CVI
- Indirect mounting for series TRB, ITS, CCL-IS, MNI, CSL-RD, ICM, KHZ, TRR



Certificates

Ambient temperature min./max.	-22 ... 176 °F
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

CE declaration of conformity, cULus, RoHS



Technical data

Part No.	for	Type of contact	Cable sheath
R412022873	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	Polyurethane
R412022875	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	Polyvinyl chloride
R412022874	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	Polyurethane

Part No.	Cable length L	Voltage drop U at I _{max}	DC switching current, max.
R412022873	0.984 ft.	I*Rs	0.3 A
R412022875	0.984 ft.	I*Rs	0.3 A
R412022874	1.64 ft.	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

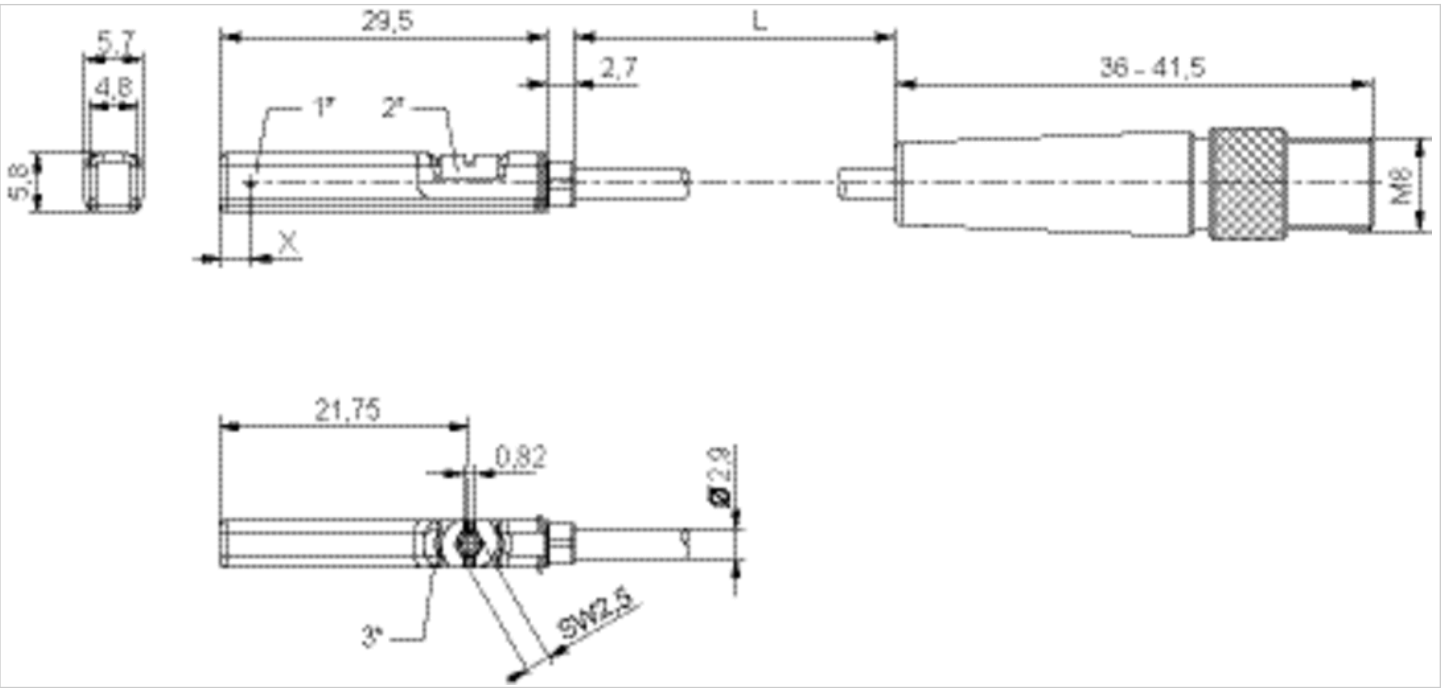
Part No.	Version
R412022873	Protected against polarity reversal
R412022875	Protected against polarity reversal
R412022874	Protected against polarity reversal

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

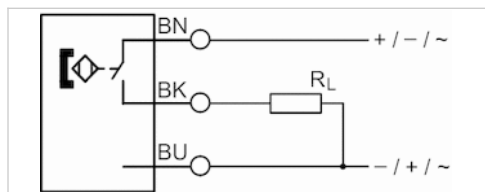
Pin assignments



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, ICM, KHZ, TRR



Certificates

Ambient temperature min./max.

Protection class

Switching point precision

Min./max. DC operating voltage

Min./max. AC operating voltage

Hysteresis

Switching logic

Switching capacity

LED status display

Vibration resistance

Shock resistance

CE declaration of conformity, cULus, RoHS

-22 ... 176 °F

IP65, IP67, IP69K

±0,1 mT

10 ... 30 V DC

10 ... 30 V AC

≥ 0,2 mT

NO (make contact)

Reed, 2-pin: max. 10 W, Reed, 3-pin: max. 6 W

Yellow

10 - 55 Hz, 1 mm

30 g / 11 ms

Technical data

Part No.	for	Type of contact	Cable length L
R412022869	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	9.84 ft.
R412022870	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	16.4 ft.
R412022871	PRA, PRE, CCI, KPZ, SSI, GPC, CVI	Reed	32.81 ft.

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

Technical information

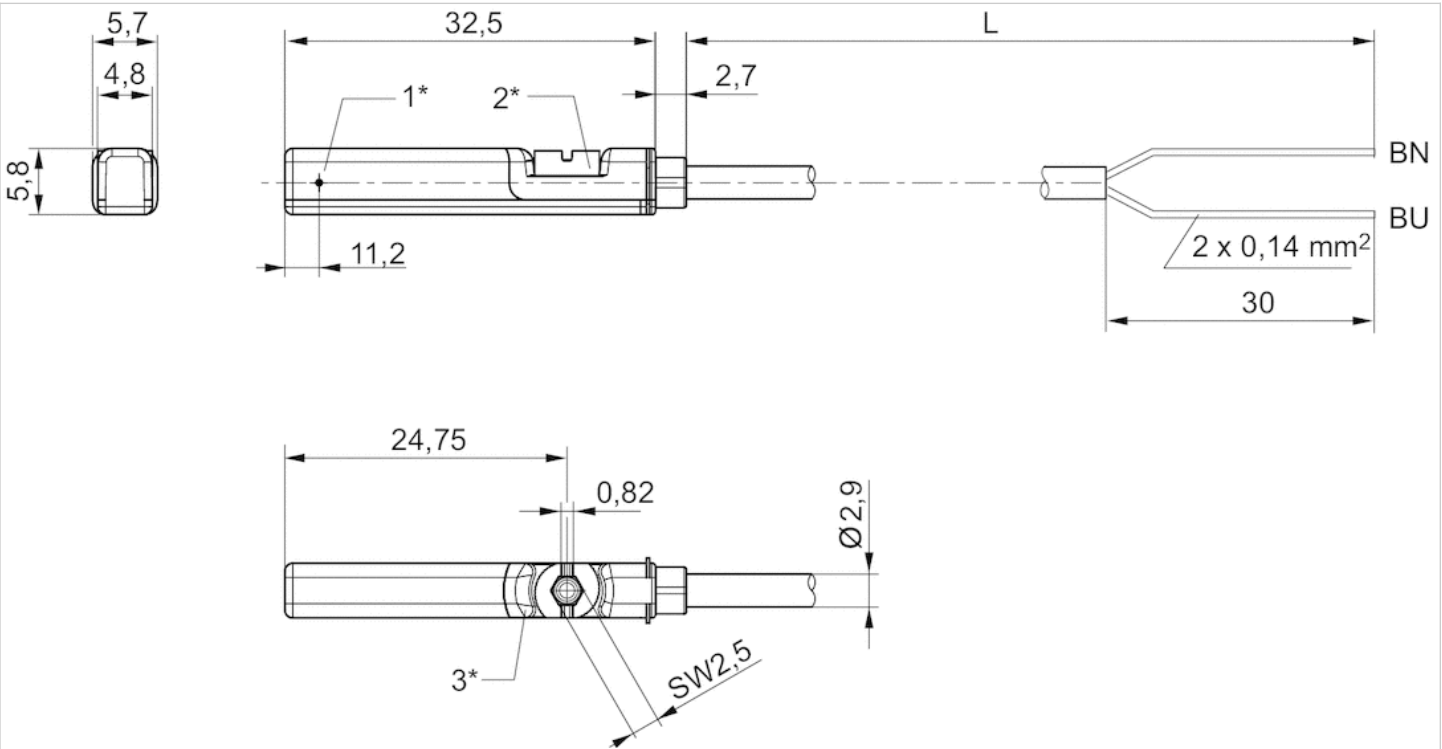
No cULus certification for 230 V variant.

Technical information

Material	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

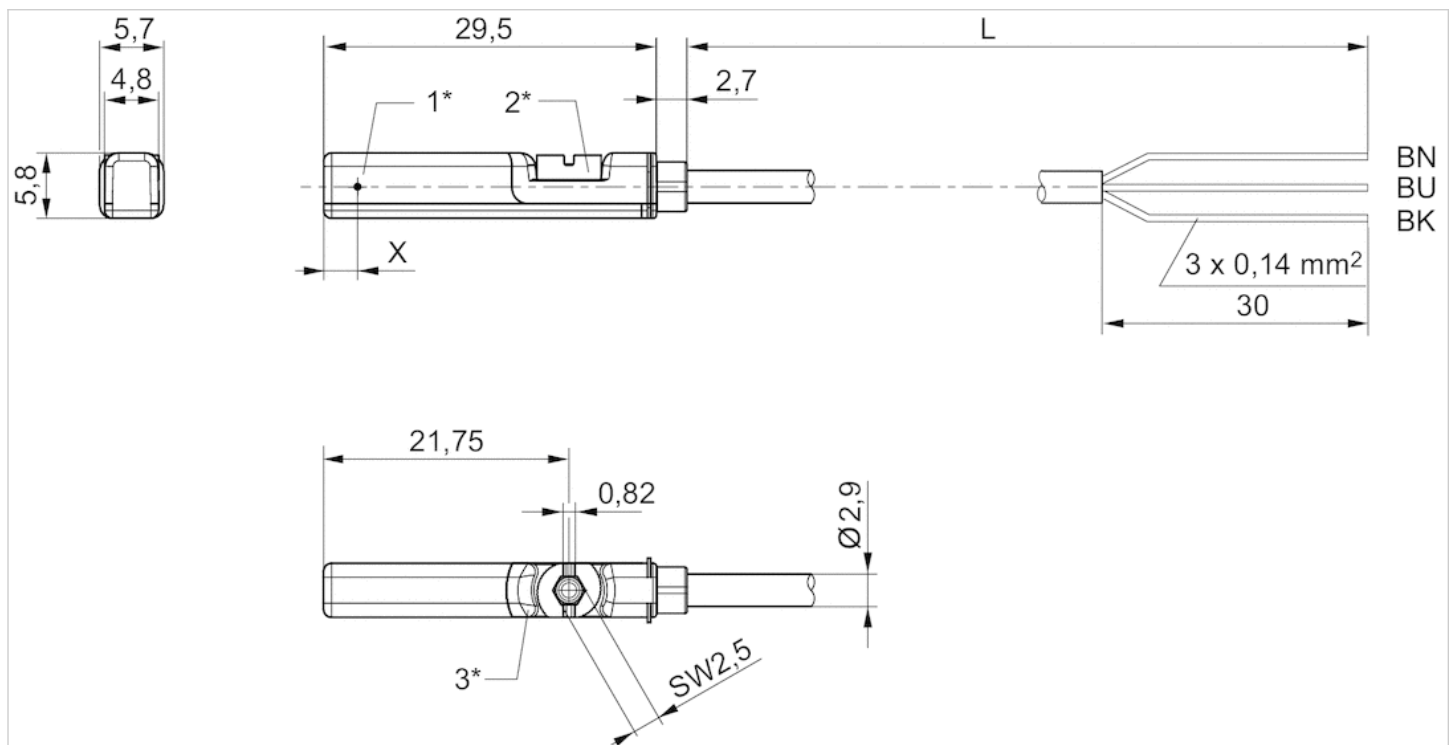
Dimensions

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 standard series

- Straight fitting
- External thread
- G 1/4, G 3/8
- push-in fitting
- Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR1-S-RPN



Working pressure min./max.

-13 ... 145 psi

Ambient temperature min./max.

32 ... 140 °F

Weight

See table below

Technical data

Part No.	Port G	Port D	Delivery unit	Weight
2121004140	G 1/4	Ø 4	10 piece	0.044 lbs
2121006140	G 1/4	Ø 6	10 piece	0.047 lbs
2121008140	G 1/4	Ø 8	10 piece	0.053 lbs
2121010140	G 1/4	Ø 10	10 piece	0.058 lbs
2121012140	G 1/4	Ø 12	10 piece	0.087 lbs
R412005000	G 3/8	Ø 6	10 piece	0.071 lbs
2121008380	G 3/8	Ø 8	10 piece	0.078 lbs
2121010380	G 3/8	Ø 10	10 piece	0.092 lbs
2121012380	G 3/8	Ø 12	10 piece	0.099 lbs
2121014380	G 3/8	Ø 14	10 piece	0.1 lbs
R412005005	G 3/8	Ø 16	10 piece	0.128 lbs

Technical information

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

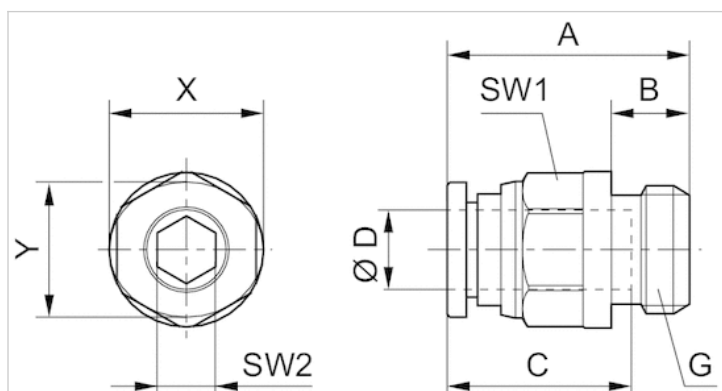
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

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

QR1-S standard series

- Elbow fitting
- External thread
- G 1/4, G 3/8
- push-in fitting
- Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR1-S-RVT



Working pressure min./max.

-13 ... 145 psi

Ambient temperature min./max.

32 ... 140 °F

Weight

See table below

Technical data

Part No.	Port G	Port D	Delivery unit	Weight
2122004140	G 1/4	Ø 4	10 piece	0.038 lbs
2122006140	G 1/4	Ø 6	10 piece	0.042 lbs
2122008140	G 1/4	Ø 8	10 piece	0.051 lbs
2122010140	G 1/4	Ø 10	10 piece	0.063 lbs
2122012140	G 1/4	Ø 12	10 piece	0.093 lbs
R412005092	G 3/8	Ø 6	10 piece	0.068 lbs
2122008380	G 3/8	Ø 8	10 piece	0.072 lbs
2122010380	G 3/8	Ø 10	10 piece	0.088 lbs
2122012380	G 3/8	Ø 12	10 piece	0.096 lbs
2122014380	G 3/8	Ø 14	5 piece	0.106 lbs
R412005097	G 3/8	Ø 16	5 piece	0.135 lbs

Weight per piece

Technical information

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

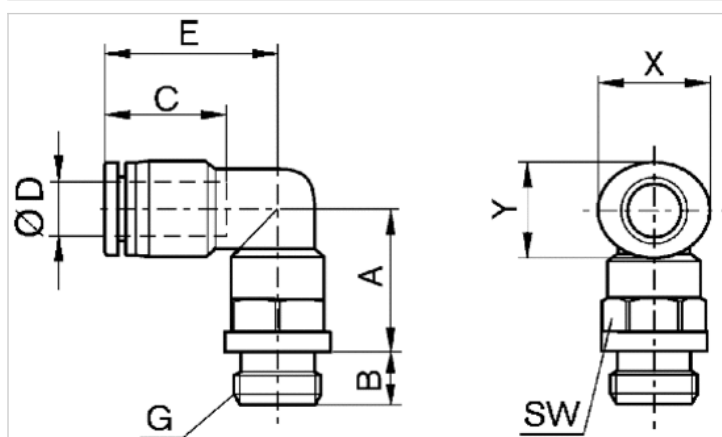
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

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

Series QR2-S, standard

- Straight fitting
- External thread
- G 1/4, G 3/8
- push-in fitting
- Ø 4, Ø 5, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14
- QR2-S-RPN



Working pressure min./max.

-13 ... 232 psi

Ambient temperature min./max.

-4 ... 176 °F

Weight

See table below

Technical data

Part No.	Port G	Port D	Delivery unit	Weight	Fig.
1823373045	G 1/4	Ø 4	25 piece	0.026 lbs	Fig. 1
1823373046	G 1/4	Ø 5	10 piece	0.029 lbs	Fig. 1
1823373047	G 1/4	Ø 6	25 piece	0.033 lbs	Fig. 1
1823373048	G 1/4	Ø 8	10 piece	0.035 lbs	Fig. 1
1823373049	G 1/4	Ø 10	10 piece	0.057 lbs	Fig. 1
1823391809	G 1/4	Ø 12	10 piece	0.068 lbs	Fig. 1
R412004708	G 1/4	Ø 12	10 piece	0.048 lbs	Fig. 2
1823373050	G 3/8	Ø 8	10 piece	0.046 lbs	Fig. 1
1823373051	G 3/8	Ø 10	10 piece	0.062 lbs	Fig. 1
1823373052	G 3/8	Ø 12	5 piece	0.084 lbs	Fig. 1
1823373053	G 3/8	Ø 14	5 piece	0.13 lbs	Fig. 1

Weight per piece

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

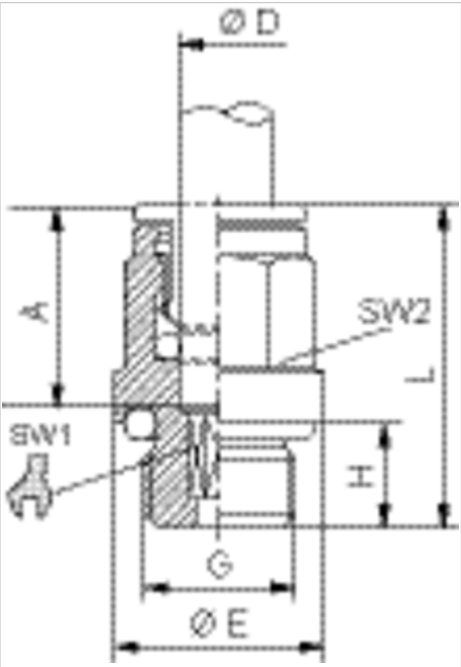
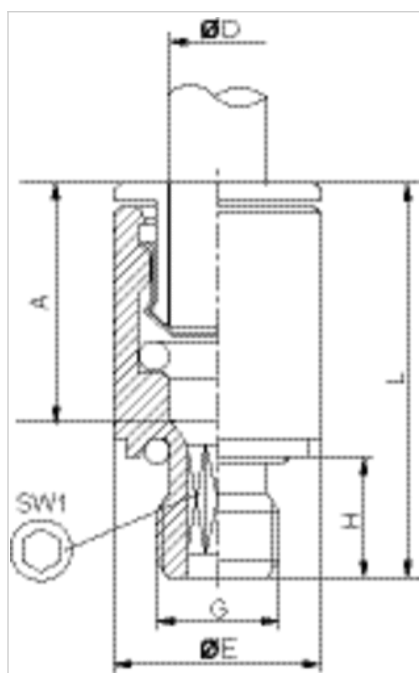


Fig. 2



Dimensions

Part No.	Port D	Port G	Ø E	H	L	A*	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

* Insertion depth

Series QR2-S, standard

- Elbow fitting, rotatable
- External thread
- G 1/4, G 3/8
- push-in fitting
- Ø 4, Ø 6, Ø 8, Ø 10, Ø 12, Ø 14, Ø 16
- QR2-S-RVT



Working pressure min./max.

-13 ... 232 psi

Ambient temperature min./max.

-4 ... 176 °F

Weight

See table below

Technical data

Part No.	Port G	Port D	Delivery unit	Weight
1823391713	G 1/4	Ø 4	10 piece	0.053 lbs
1823391714	G 1/4	Ø 6	10 piece	0.055 lbs
1823391715	G 1/4	Ø 8	10 piece	0.06 lbs
1823391718	G 1/4	Ø 10	5 piece	0.068 lbs
1823391843	G 1/4	Ø 12	5 piece	0.092 lbs
1823391716	G 3/8	Ø 8	5 piece	0.092 lbs
1823391717	G 3/8	Ø 10	5 piece	0.092 lbs
1823391838	G 3/8	Ø 12	5 piece	0.099 lbs
1823391839	G 3/8	Ø 14	5 piece	0.137 lbs
R412010182	G 3/8	Ø 16	1 piece	0.159 lbs

Weight per piece

Technical information

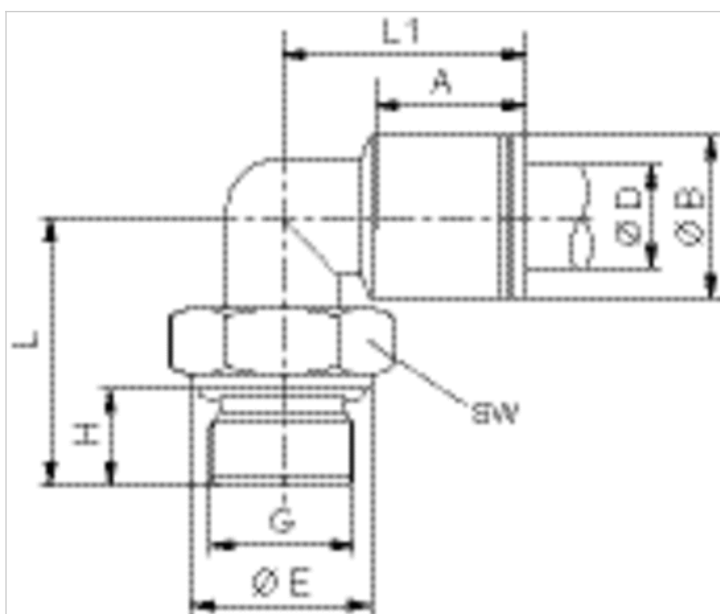
The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

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*	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

* Insertion depth

Series NU2

- Swivel banjo connection 1-fold
- External thread
- G 1/4, G 3/8
- plug-in with tube nut
- Ø 6, Ø 8, Ø 9, Ø 13
- NU2-S-RW1



Working pressure min./max.

-13 ... 145 psi

Ambient temperature min./max.

14 ... 140 °F

Weight

See table below

Technical data

Part No.	Port G	Port D	Delivery unit	Weight
1823391294	G 1/4	Ø 6	2 piece	0.075 lbs
1823391295	G 1/4	Ø 8	2 piece	0.097 lbs
R412010658	G 1/4	Ø 9	1 piece	0.608 lbs
1823391296	G 3/8	Ø 8	2 piece	0.123 lbs
R412007839	G 3/8	Ø 13	2 piece	0.174 lbs

Weight per piece

Technical information

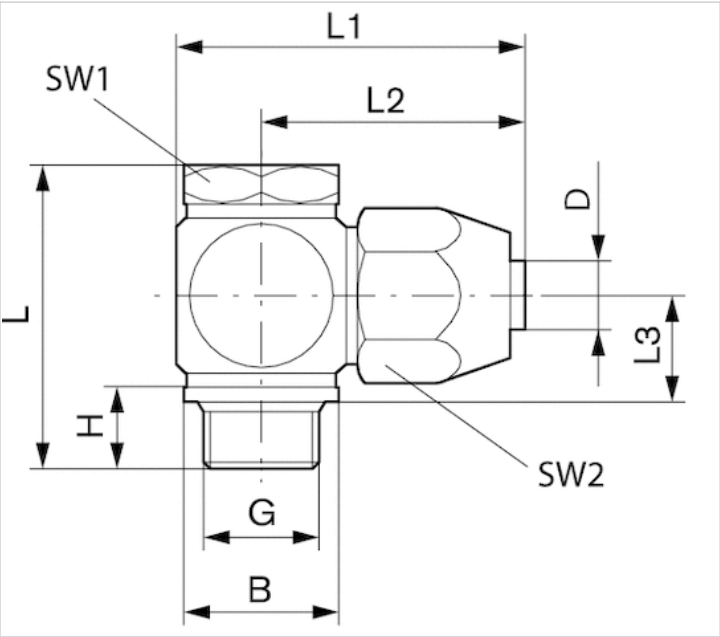
For further information about assembling and tolerances of adaptable tubing can be found in the "Technical information" document (available in the MediaCentre).

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
1823391294	Ø 6	G 1/4	18	12.5	39	39.5	30	14.5	17	19
1823391295	Ø 8	G 1/4	18	12.5	42	42	32.5	16	17	22
R412010658	Ø 9	G 1/4	18.9	7.9	40	42	32.5	15.6	17	24
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

Connection D = inside diameter of the tubing to be used

Double nipple, Series PE5

- External thread



Weight

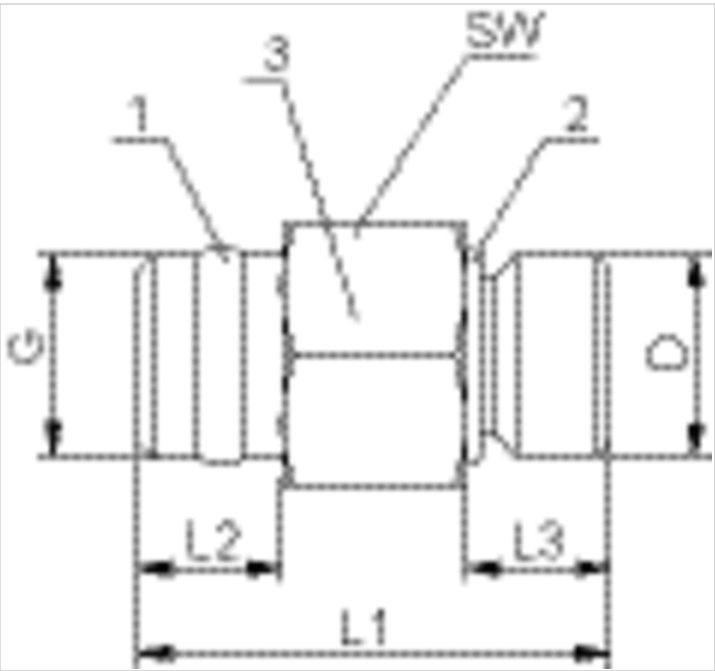
0.088 lbs

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 ... 232 psi

Ambient temperature min./max.

-4 ... 176 °F

Technical data

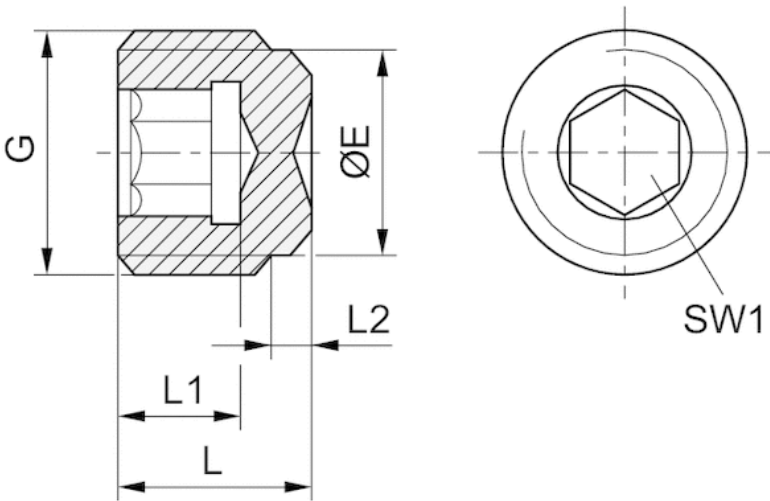
Part No.	Port G	Delivery unit
1823462004	G 1/8	10 piece
1823462003	G 1/4	10 piece

Technical information

Material	
Material	Brass

Dimensions

Dimensions



Dimensions

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



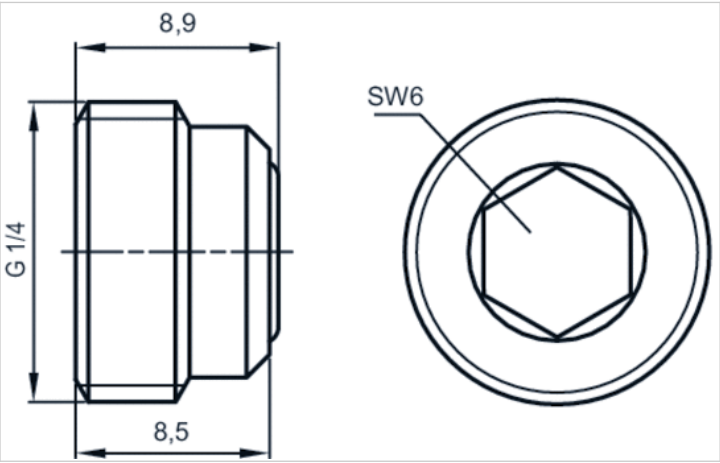
Technical data

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



Sealing ring

- Acrylonitrile butadiene styrene



Working pressure min./max.
-13 ... 232 psi

Ambient temperature min./max.
14 ... 140 °F

Technical data

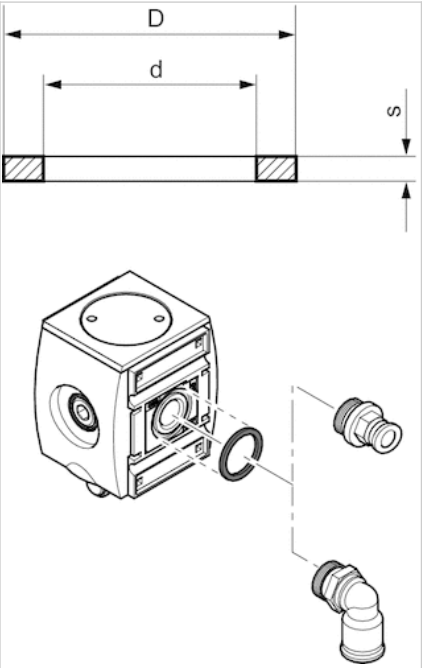
Part No.	Delivery unit
R412010148	10 piece
R412010149	10 piece
R412010150	10 piece

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	17.9	22.5	1.5
R412010149	AS3	For compressed air connection G 1/2	22.4	26.4	1.5
R412010150	AS5	For compressed air connection G 1	36.9	41.9	1.8

Silencers, series SI1

- Sintered bronze



Working pressure min./max.

0 ... 145 psi

Ambient temperature min./max.

-13 ... 176 °F

Medium

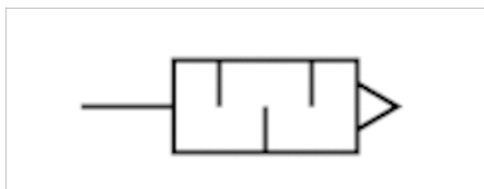
Compressed air

Weight

0.029 lbs

Comment

Flow characteristic curves can be found under "Diagrams".



Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
R412004817	G 1/4	6.05 Cv	10 piece

Weight per piece

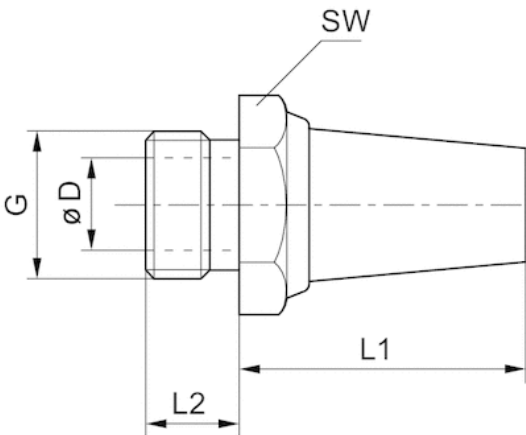
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

Technical information

Material	
Silencers	Sintered bronze
Thread	Brass

Dimensions

Dimensions

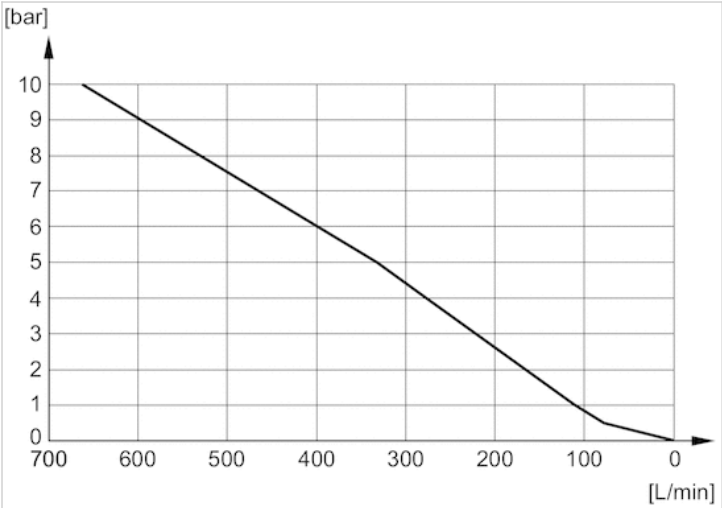


Dimensions

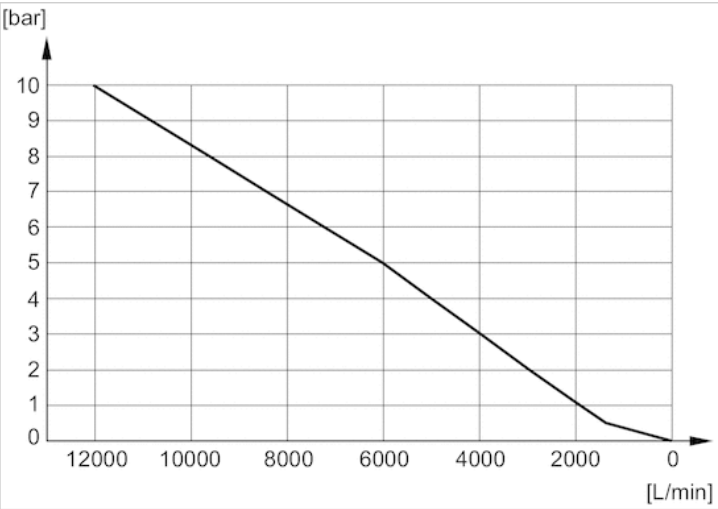
Part No.	Port G	SW	Ø D	L1	L2
R412004817	G 1/4	16	8.5	18.7	7.6

Diagrams

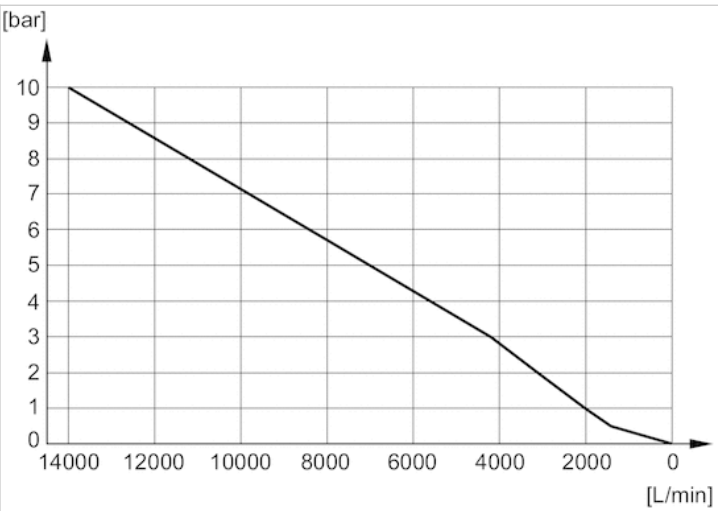
Flow diagram 1827000006



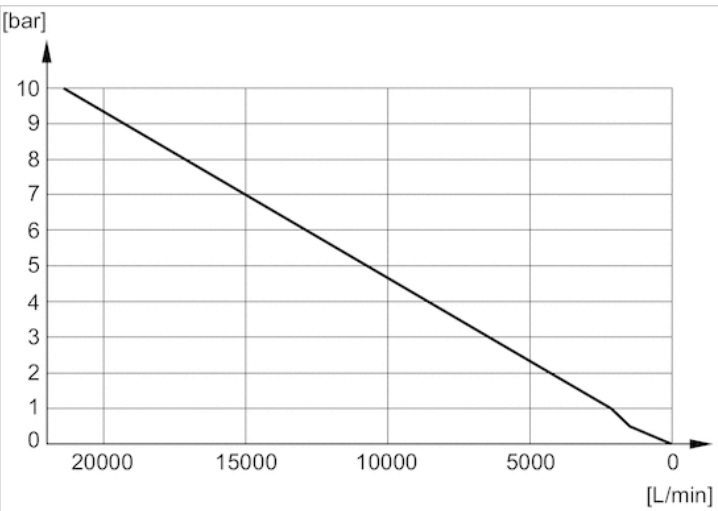
Flow diagram 1827000003



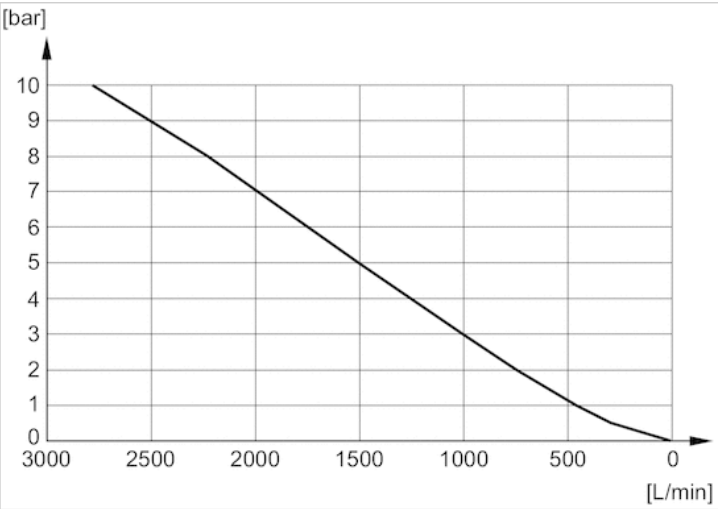
Flow diagram 1827000004



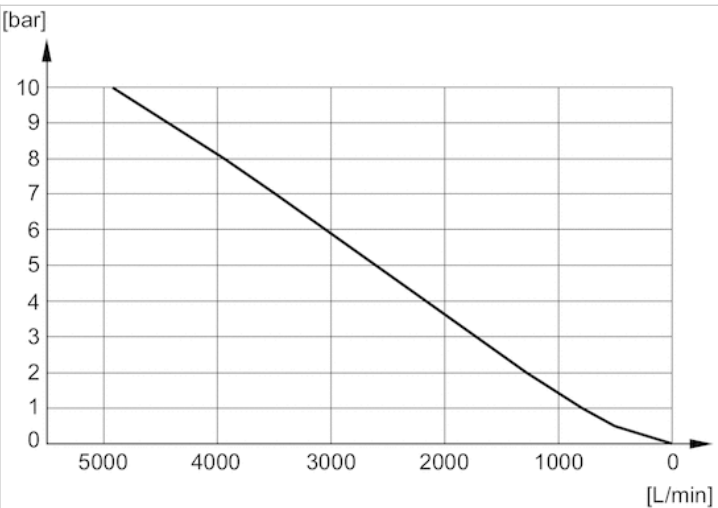
Flow diagram 1827000005



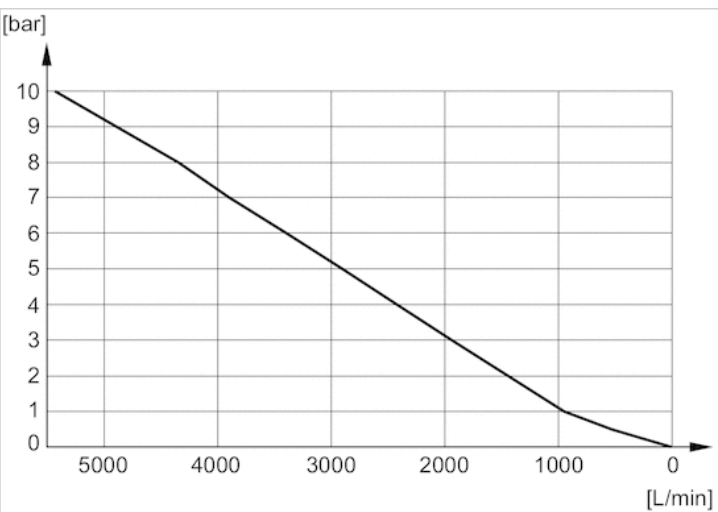
Flow diagram 5324001110



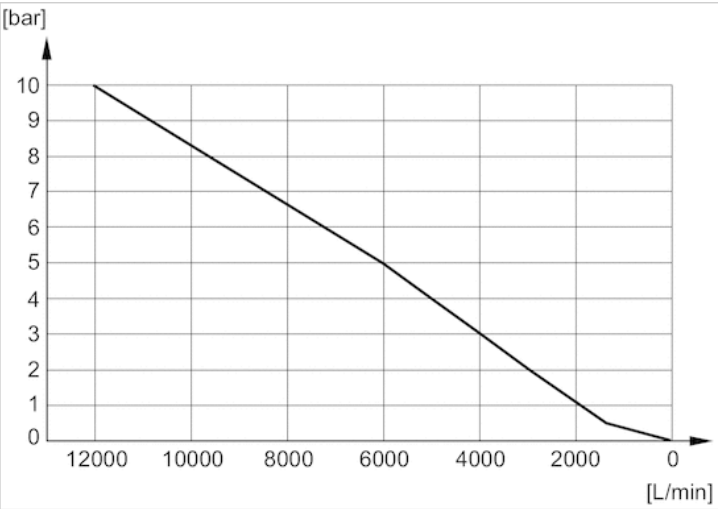
Flow diagram 5324001170



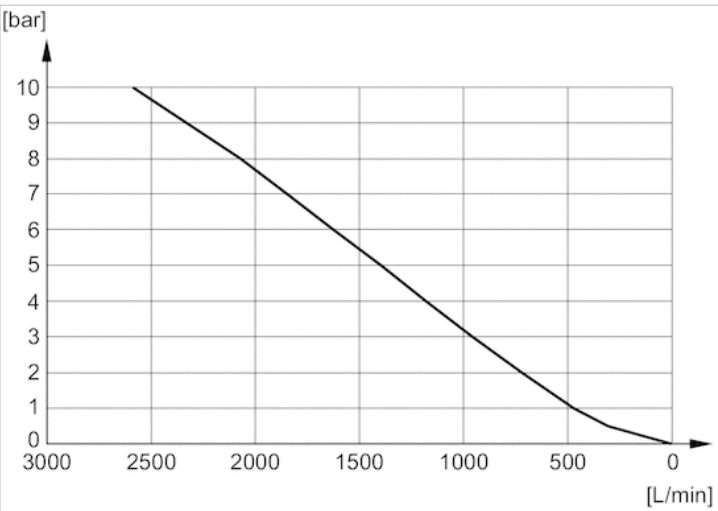
Flow diagram 5324001120



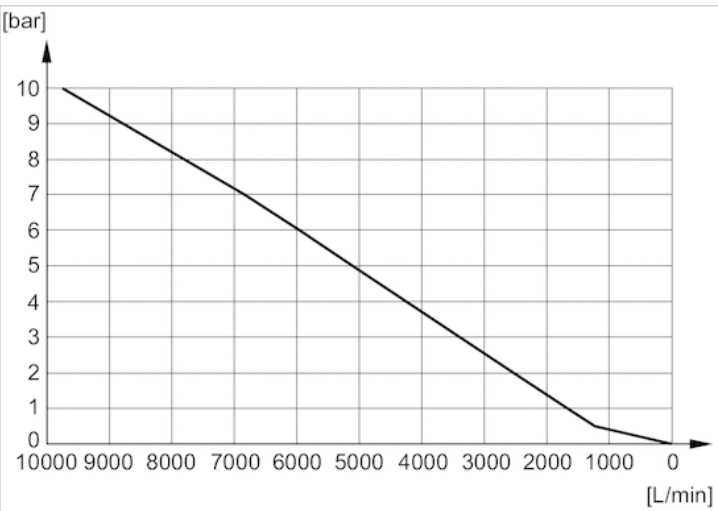
Flow diagram 5324001140



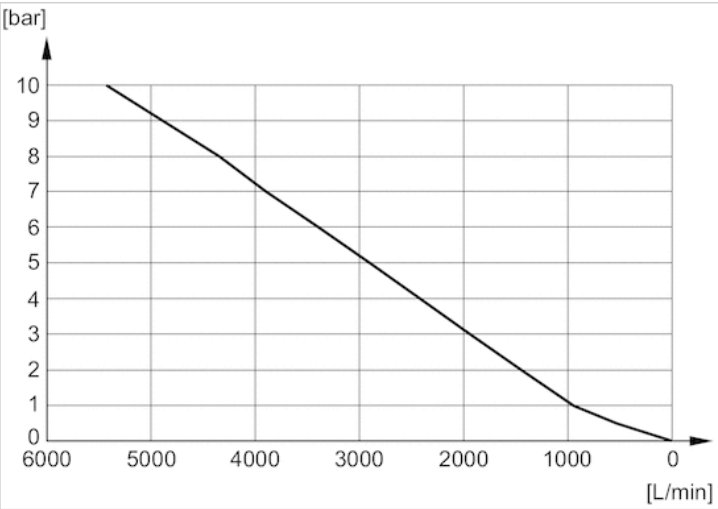
Flow diagram 1827000000



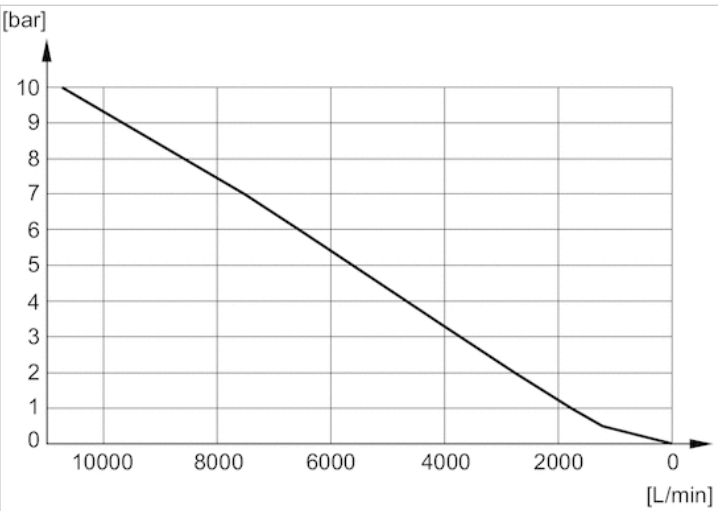
Flow diagram R412004817



Flow diagram 1827000001



Flow diagram 1827000002



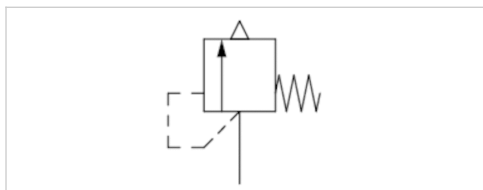
Series RV1

- Qn 1►2 = 0.687-16.3 Cv
- thread-in
- External thread
- G 1/4, G 3/8, G 1/2
- Uncollected



Version
 Certificates
 Working pressure min./max.
 Opening pressure of valve
 Ambient temperature min./max.
 Medium

Poppet valve
 CE declaration of conformity
 0 ... 290 psi
 See table below
 -4 ... 212 °F
 Compressed air



Technical data

Part No.	Port 1	Opening pressure of valve	Flow
			Qn 1►2
R412007521	G 1/4	0.8 bar	0.687 Cv
R412007522	G 1/4	1.5 bar	1.01 Cv
R412007523	G 1/4	2 bar	1.24 Cv
R412007524	G 1/4	3.5 bar	1.9 Cv
R412007525	G 1/4	4 bar	2.12 Cv
R412007526	G 1/4	4.8 bar	2.46 Cv
R412007527	G 1/4	6 bar	2.98 Cv
R412007528	G 1/4	8 bar	3.84 Cv
R412007529	G 1/4	10 bar	4.71 Cv
R412007530	G 1/4	11 bar	5.14 Cv
R412007531	G 1/4	15 bar	6.86 Cv
R412007532	G 1/4	16 bar	7.3 Cv
R412007533	G 3/8	2 bar	2.23 Cv
R412007534	G 3/8	3.7 bar	3.63 Cv
R412007535	G 3/8	4 bar	3.86 Cv
R412007721	G 3/8	5 bar	4.65 Cv
R412007536	G 3/8	6 bar	5.43 Cv
R412007537	G 3/8	6.8 bar	6.06 Cv
R412007538	G 3/8	8 bar	7.01 Cv
R412007539	G 3/8	10 bar	8.58 Cv

Part No.	Port 1	Opening pressure of valve	Flow
			Qn 1►2
R412007540	G 3/8	11 bar	9.37 Cv
R412007541	G 3/8	16 bar	13.3 Cv
R412007542	G 1/2	0.4 bar	1.13 Cv
R412007720	G 1/2	2.9 bar	3.67 Cv
R412007690	G 1/2	3.5 bar	4.25 Cv
R412007691	G 1/2	4 bar	4.73 Cv
R412007692	G 1/2	5 bar	5.7 Cv
R412007699	G 1/2	5.5 bar	6.24 Cv
R412007696	G 1/2	6 bar	6.66 Cv
R412007702	G 1/2	6.5 bar	7.22 Cv
R412007698	G 1/2	7 bar	7.62 Cv
R412007697	G 1/2	8 bar	8.59 Cv
R412007693	G 1/2	8.5 bar	9.16 Cv
R412007694	G 1/2	9 bar	9.55 Cv
R412007700	G 1/2	10 bar	10.51 Cv
R412007701	G 1/2	10.5 bar	11.11 Cv
R412007695	G 1/2	11 bar	11.48 Cv
R412007703	G 1/2	12 bar	12.44 Cv
R412007543	G 1/2	16 bar	16.3 Cv

Technical information

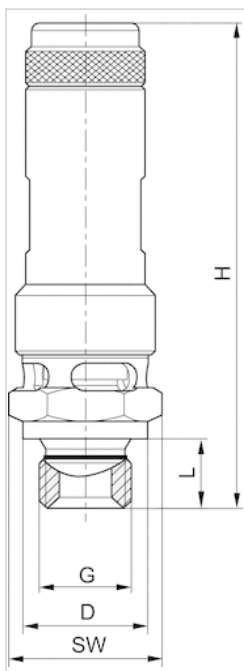
The specified performance values are achieved at a 10% (PE 14.5 psi , 1.45 psi) pressure increase, measured with compressed air at 68 °F .

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