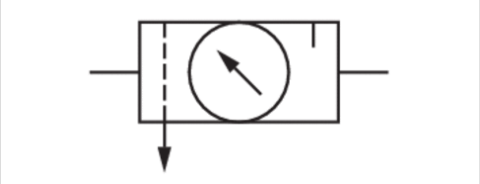
Maintenance unit, 2-part, Series NL6-ACD

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



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.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	13.72 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	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	15.22 fl.oz.
Type of filling	Manual oil filling
Max. Internal air consumption	0 Cv
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Condensate drain	Reservoir
0821300871	G 3/4	13.72 Cv	semi-automatic, open without pressure	Polycarbonate
0821300872	G 3/4	13.72 Cv	semi-automatic, open without pressure	Polycarbonate
0821300873	G 3/4	13.72 Cv	semi-automatic, open without pressure	Die cast zinc
0821300874	G 3/4	13.72 Cv	fully automatic, open without pressure	Polycarbonate
0821300875	G 3/4	13.72 Cv	fully automatic, open without pressure	Polycarbonate
0821300876	G 3/4	13.72 Cv	fully automatic, open without pressure	Die cast zinc
0821300877	G 1	13.72 Cv	semi-automatic, open without pressure	Polycarbonate
0821300878	G 1	13.72 Cv	semi-automatic, open without pressure	Polycarbonate
0821300879	G 1	13.72 Cv	semi-automatic, open without pressure	Die cast zinc
0821300880	G 1	13.72 Cv	fully automatic, open without pressure	Polycarbonate
0821300881	G 1	13.72 Cv	fully automatic, open without pressure	Polycarbonate
0821300882	G 1	13.72 Cv	fully automatic, open without pressure	Die cast zinc

Part No.	Protective guard	Weight
0821300871	-	8.44 lbs
0821300872	Steel	8.66 lbs
0821300873	-	9.1 lbs

Part No.	Protective guard	Weight
0821300874	-	8.51 lbs
0821300875	Steel	8.73 lbs
0821300876	-	9.17 lbs
0821300877	-	8.44 lbs
0821300878	Steel	8.66 lbs
0821300879	-	9.1 lbs
0821300880	-	8.51 lbs
0821300881	Steel	8.73 lbs
0821300882	-	9.17 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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.
Also suitable for separation of fluid oil or water due to the design.

Oil dosing at 1 Cv 1-2 drops

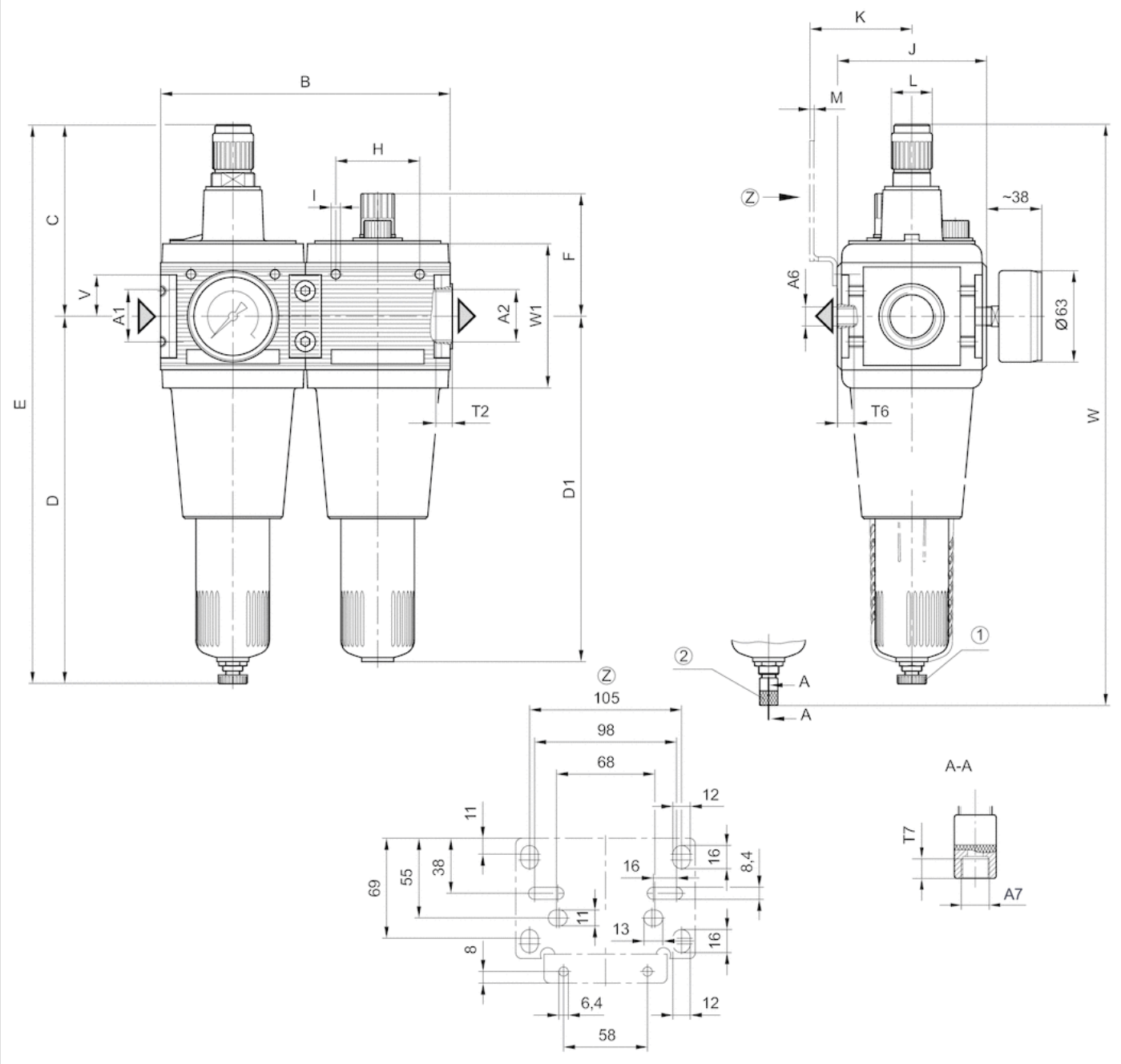
Compressed air class 7 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



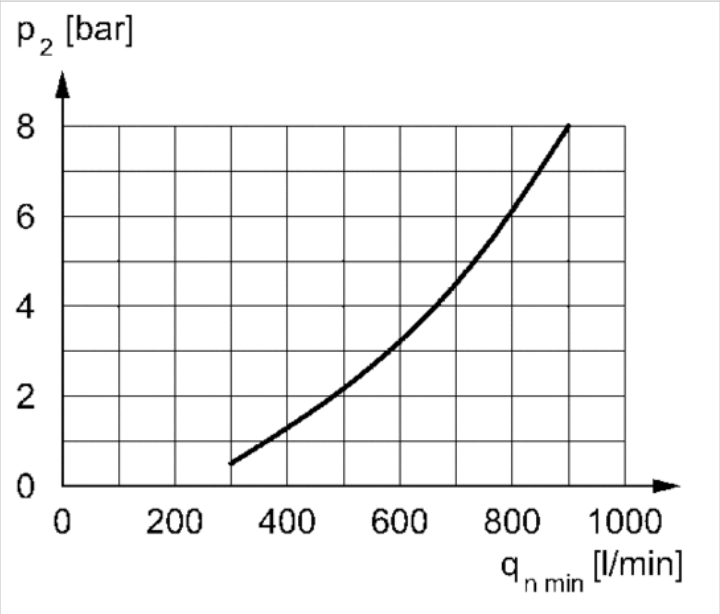
A1 = input
A2 = output
A6 = output
1) Semi-automatic condensate drain
2) fully automatic condensate drain

Dimensions in mm

A1	A2	A6	A7	B	C	D	D1	E	F	H	I	J	K	L	M	T2	T6	T7	V	W	W1
G 3/4	G 3/4	G 1/4	G 1/8	200	132	253	236	385	84	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5
G 1	G 1	G 1/4	G 1/8	200	132	253	236	385	84	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5

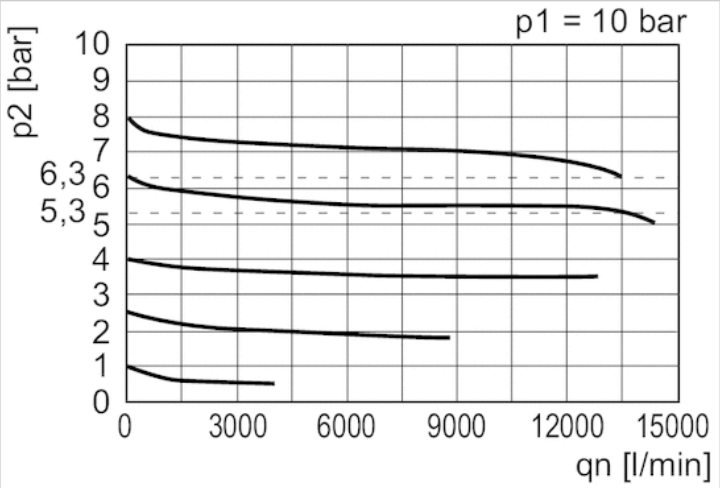
Diagrams

minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



p2 = secondary pressure
qnmin. = min. nominal flow

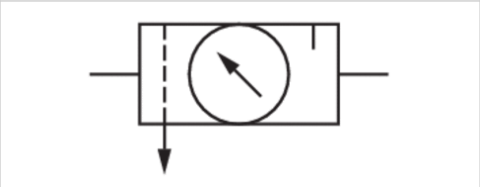
Flow rate characteristic



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

Maintenance unit, 3-part, Series NL6-ACT

- G 3/4, G 1
- 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.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	12.2 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	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Lubricator reservoir volume	15.22 fl.oz.
Type of filling	Manual oil filling
Max. Internal air consumption	0 Cv
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Condensate drain	Reservoir
0821300886	G 3/4	12.2 Cv	semi-automatic, open without pressure	Polycarbonate
0821300887	G 3/4	12.2 Cv	semi-automatic, open without pressure	Polycarbonate
0821300888	G 3/4	12.2 Cv	semi-automatic, open without pressure	Die cast zinc
0821300889	G 3/4	12.2 Cv	fully automatic, open without pressure	Polycarbonate
0821300890	G 3/4	12.2 Cv	fully automatic, open without pressure	Polycarbonate
0821300891	G 3/4	12.2 Cv	fully automatic, open without pressure	Die cast zinc
0821300892	G 1	12.2 Cv	semi-automatic, open without pressure	Polycarbonate
0821300893	G 1	12.2 Cv	semi-automatic, open without pressure	Polycarbonate
0821300894	G 1	12.2 Cv	semi-automatic, open without pressure	Die cast zinc
0821300895	G 1	12.2 Cv	fully automatic, open without pressure	Polycarbonate
0821300896	G 1	12.2 Cv	fully automatic, open without pressure	Polycarbonate
0821300897	G 1	12.2 Cv	fully automatic, open without pressure	Die cast zinc

Part No.	Protective guard	Weight
0821300886	-	11.46 lbs
0821300887	Steel	11.68 lbs
0821300888	-	12.13 lbs

Part No.	Protective guard	Weight
0821300889	-	11.53 lbs
0821300890	Steel	11.75 lbs
0821300891	-	12.19 lbs
0821300892	-	11.46 lbs
0821300893	Steel	8.66 lbs
0821300894	-	12.13 lbs
0821300895	-	11.53 lbs
0821300896	Steel	11.75 lbs
0821300897	-	12.19 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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.
Also suitable for separation of fluid oil or water due to the design.

Oil dosing at 1 Cv 1-2 drops

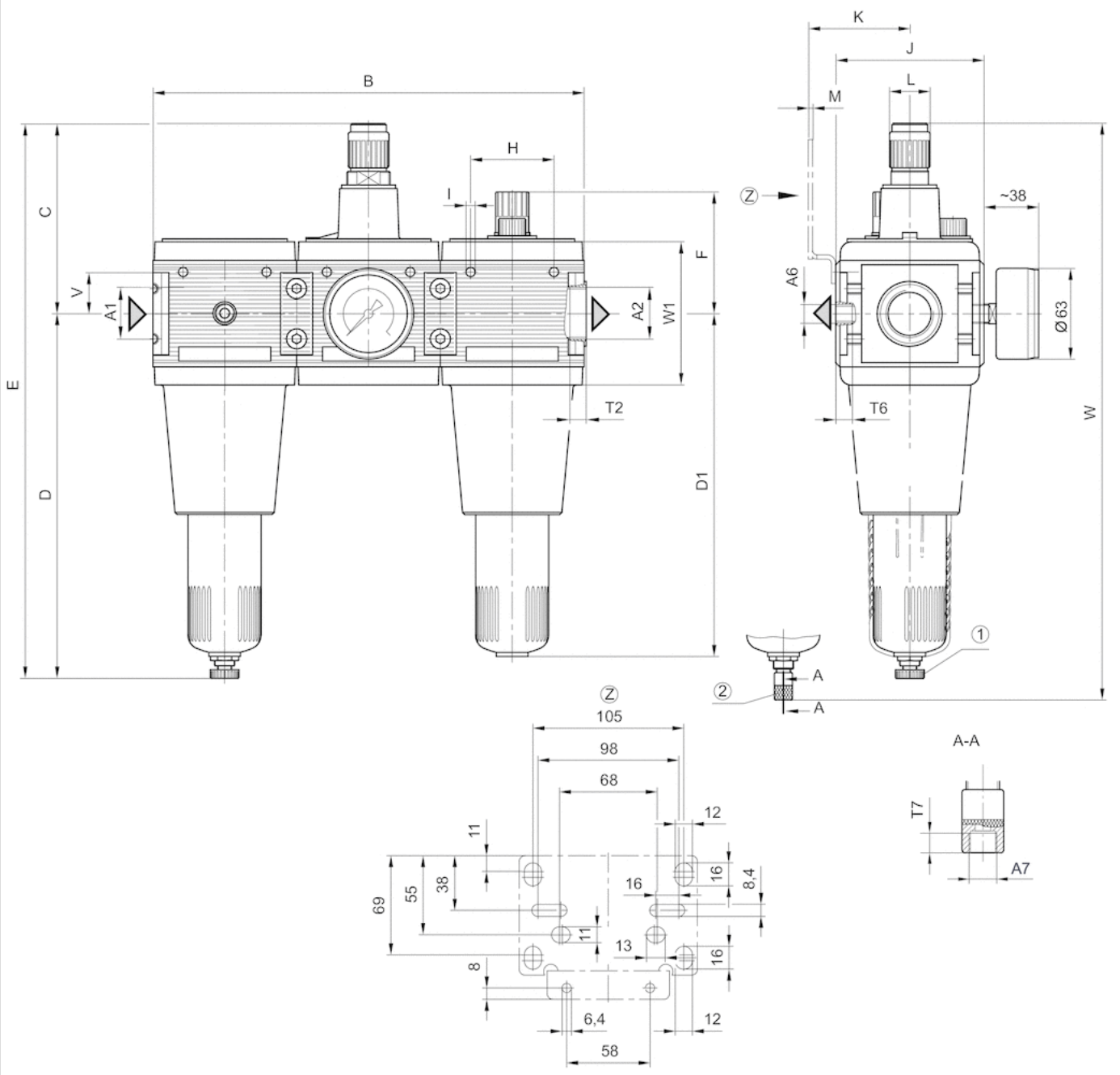
Compressed air class 7 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



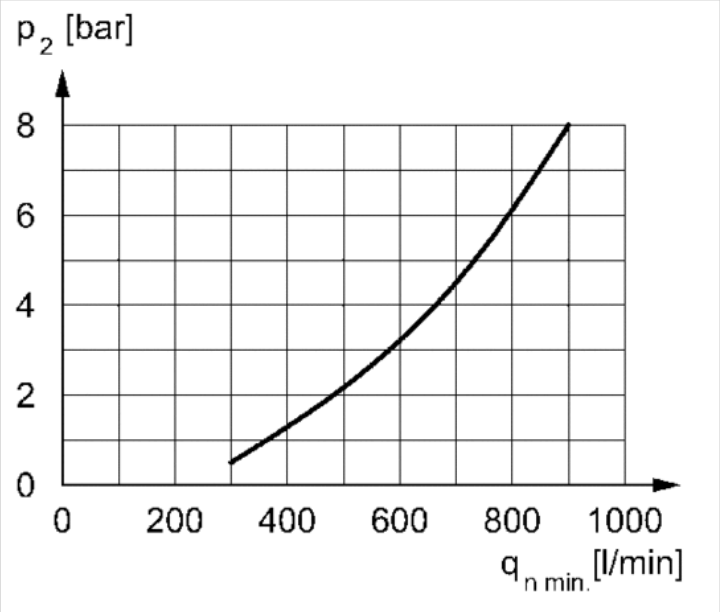
A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain

Dimensions in mm

A1	A2	A6	A7	B	C	D	D1	E	F	H	I	J	K	L	M	T2	T6	T7	V	W	W1
G 3/4	G 3/4	G 1/4	G 1/8	300	132	253	236	385	84	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5
G 1	G 1	G 1/4	G 1/8	300	132	253	236	385	84	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5

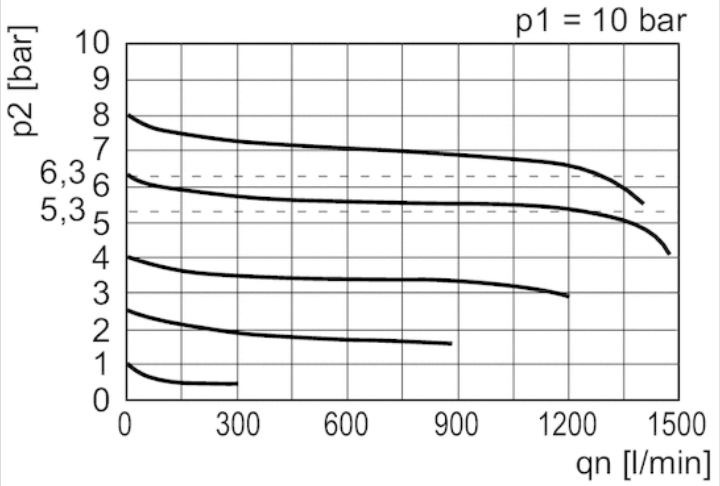
Diagrams

minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



p2 = secondary pressure
qnmin. = min. nominal flow

Flow rate characteristic



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

Pressure regulator, Series NL6-RGS

- G 3/4, G 1
- Qn = 15.24 Cv
- Standard pressure regulator
- Activation Mechanical
- suitable for ATEX

Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	8 ... 290 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °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
Pressure supply	single
Activation	Mechanical
Internal air consumption q,max.	0 Cv
Weight	See table below

Technical data

Part No.			Port	Flow Qn	Pressure gauge	Weight	
0821302801		–	G 3/4	15.24 Cv	-	3.22 lbs	1)
0821302803			G 3/4	15.24 Cv	with pressure gauge	3.43 lbs	2)
0821302802		–	G 1	15.24 Cv	-	3.22 lbs	1)
0821302804			G 1	15.24 Cv	with pressure gauge	3.43 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 .
Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
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)

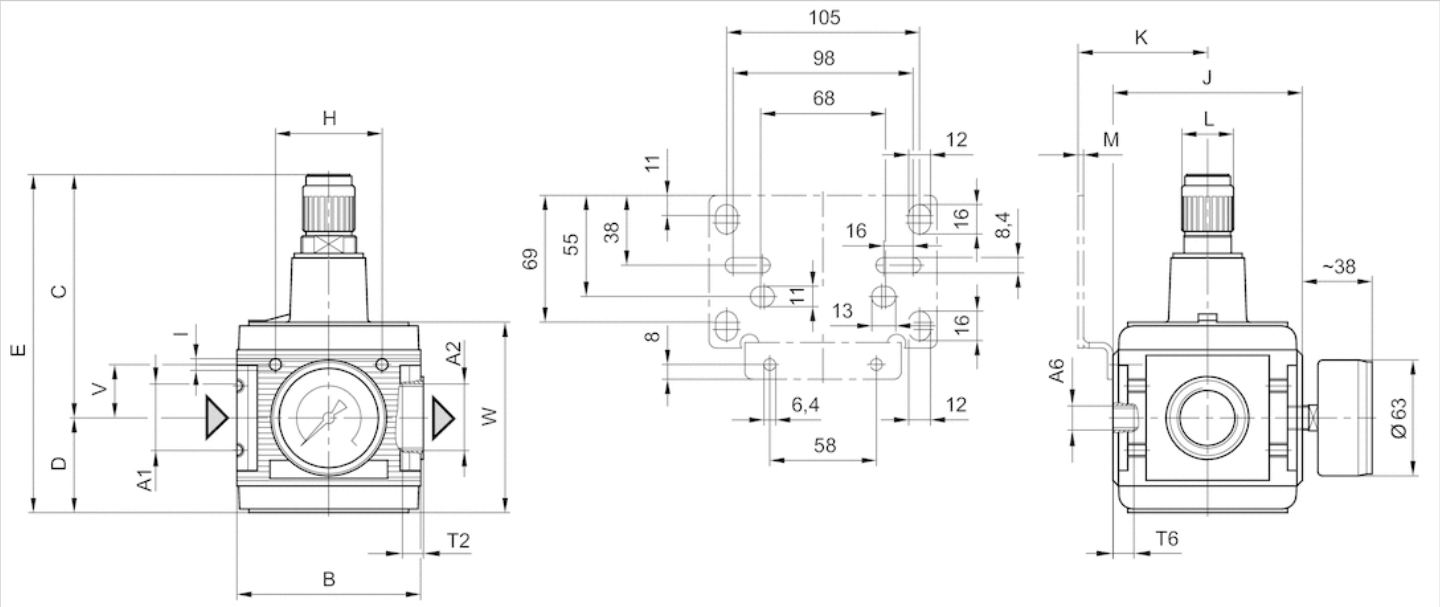
Recommended pre-filtering 5 µm

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



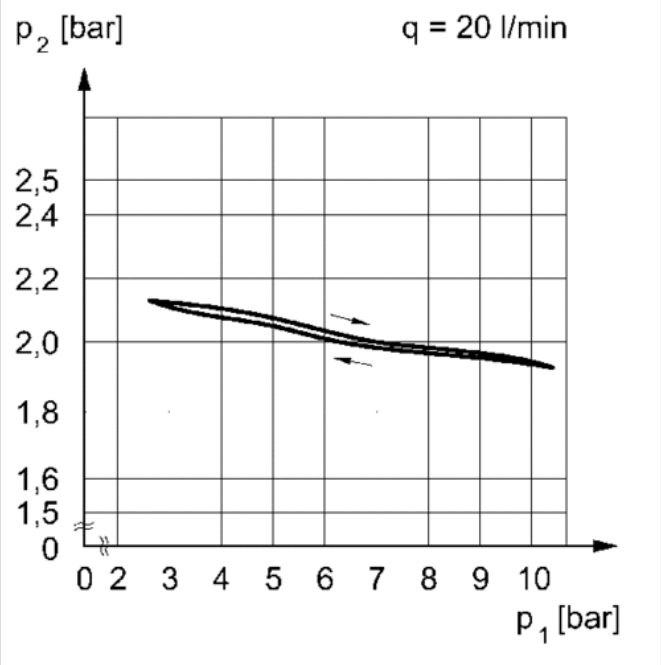
A1 = input
A2 = output
A6 = output

Dimensions in mm

A1	A2	A6	B	C	D	E	H	I	J	K	L	M	T2	T6	V	W
G 3/4	G 3/4	G 1/4	100	132	51.5	183.5	58	M6	103	70.5	28	3	18	7	29	103.5
G 1	G 1	G 1/4	100	132	51.5	183.5	58	M6	103	70.5	28	3	18	7	29	103.5

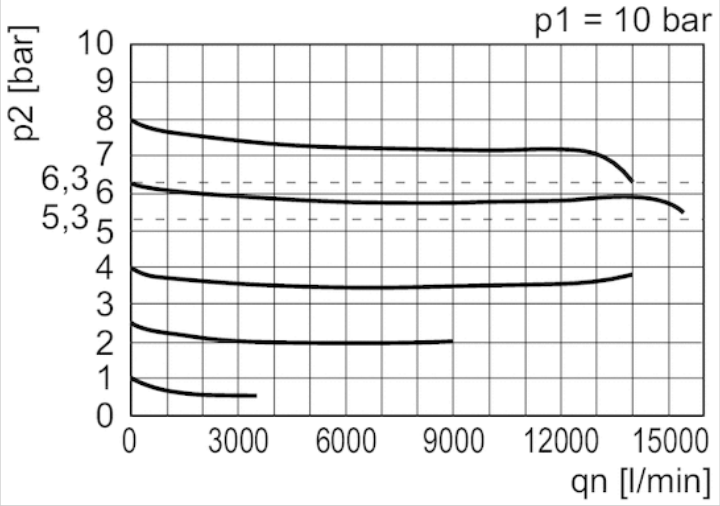
Diagrams

Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
q = flow rate

Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



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

Pressure regulator, Series NL6-RGS

- G 3/4, G 1
- Qn = 15.24 Cv
- Standard pressure regulator
- Activation Mechanical
- lockable
- with key
- suitable for ATEX

Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	8 ... 290 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °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 key
Pressure supply	single
Activation	Mechanical
Internal air consumption q,max.	0 Cv
Weight	See table below

Technical data

Part No.			Port	Flow Qn	Pressure gauge	Weight	
0821302805		—	G 3/4	15.24 Cv	-	3.46 lbs	1)
0821302807			G 3/4	15.24 Cv	with pressure gauge	3.67 lbs	2)
0821302806		—	G 1	15.24 Cv	-	3.46 lbs	1)
0821302808			G 1	15.24 Cv	with pressure gauge	3.62 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 .
Suitable for use in Ex zones 1, 2, 21, 22
Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
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)

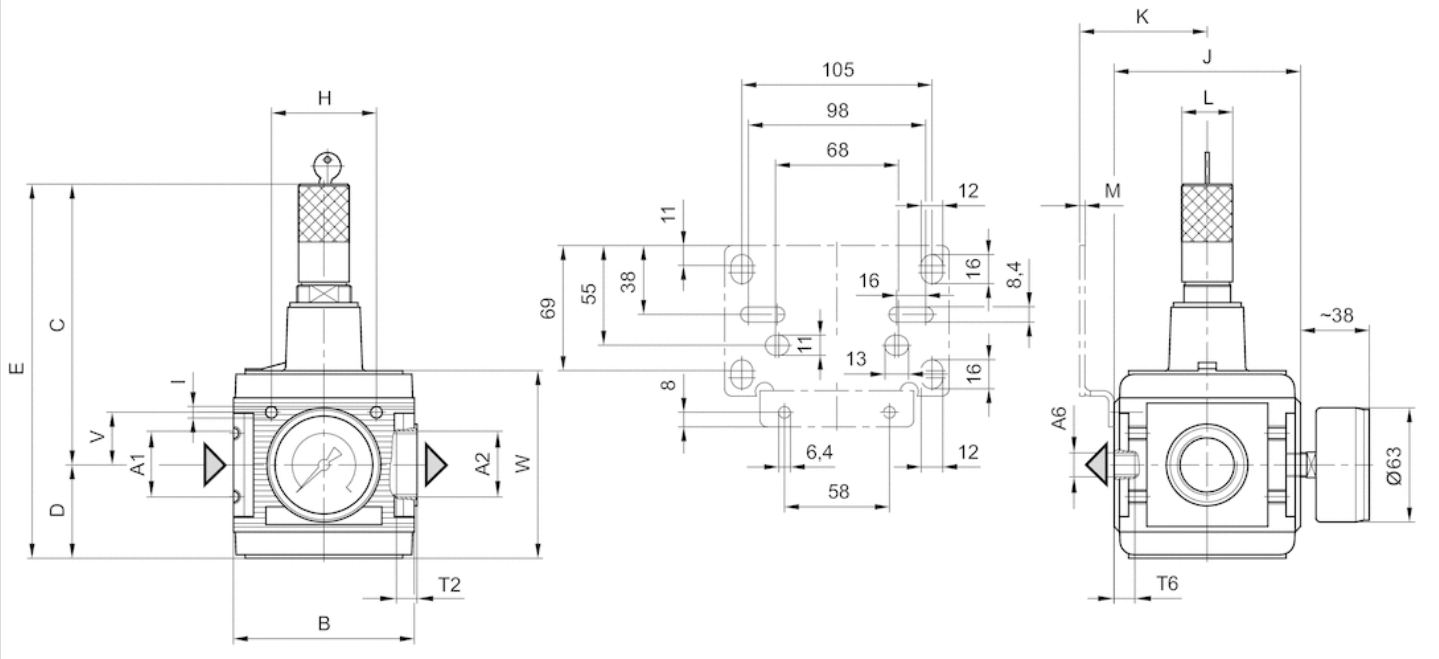
Recommended pre-filtering 5 µm

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



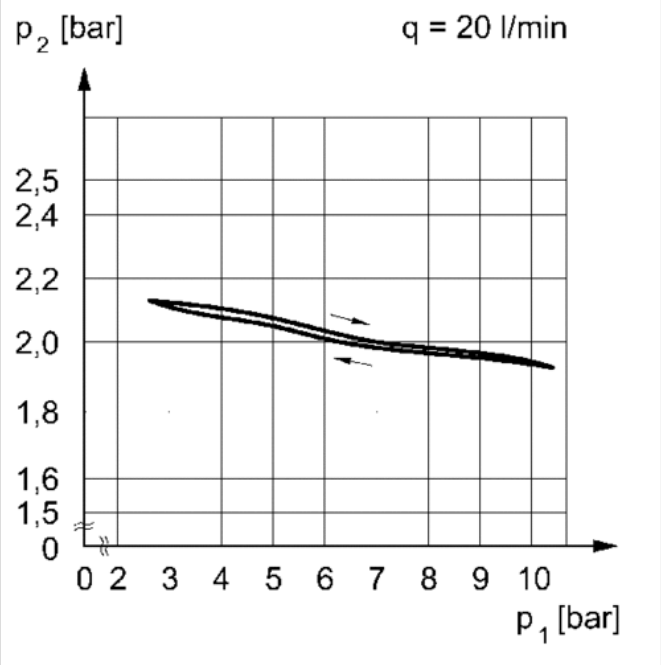
A1 = input
A2 = output
A6 = output

Dimensions in mm

A1	A2	A6	B	C	D	E	H	I	J	K	L	M	T2	T6	V	W
G 3/4	G 3/4	G 1/4	100	156.5	51.5	208	58	M6	103	70.5	28	3	18	7	29	103.5
G 1	G 1	G 1/4	100	156.5	51.5	208	58	M6	103	70.5	28	3	18	7	29	103.5

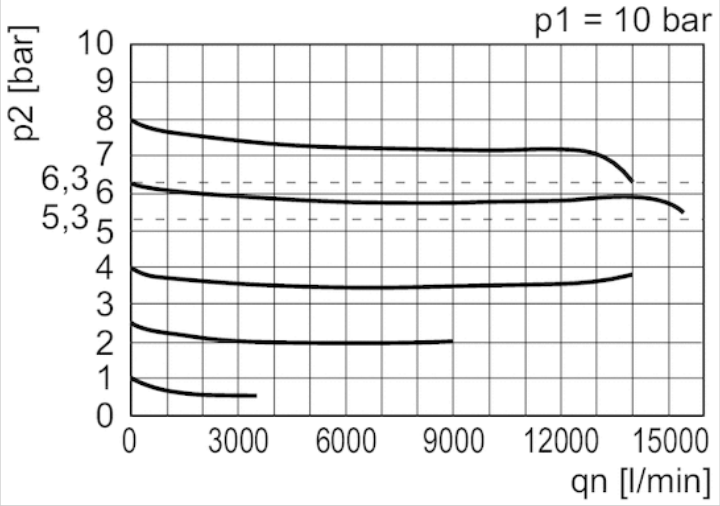
Diagrams

Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
q = flow rate

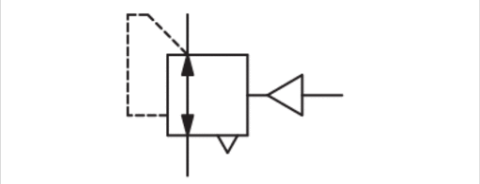
Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



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

Pressure regulator, Series NL6-RGS

- G 3/4, G 1
- Qn = 15.24 Cv
- Standard pressure regulator
- Activation Pneumatically
- suitable for ATEX



Parts	Pressure regulator
Mounting orientation	Any
Certificates	suitable for ATEX
Working pressure min./max.	8 ... 290 psi
Control pressure max.	145 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °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
Pressure supply	single
Activation	Pneumatically
Weight	2.97 lbs

Technical data

Part No.	Port	Flow
		Qn
0821302809	G 3/4	15.24 Cv
0821302810	G 1	15.24 Cv

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 .
Suitable for use in Ex zones 1, 2, 21, 22
Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
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)

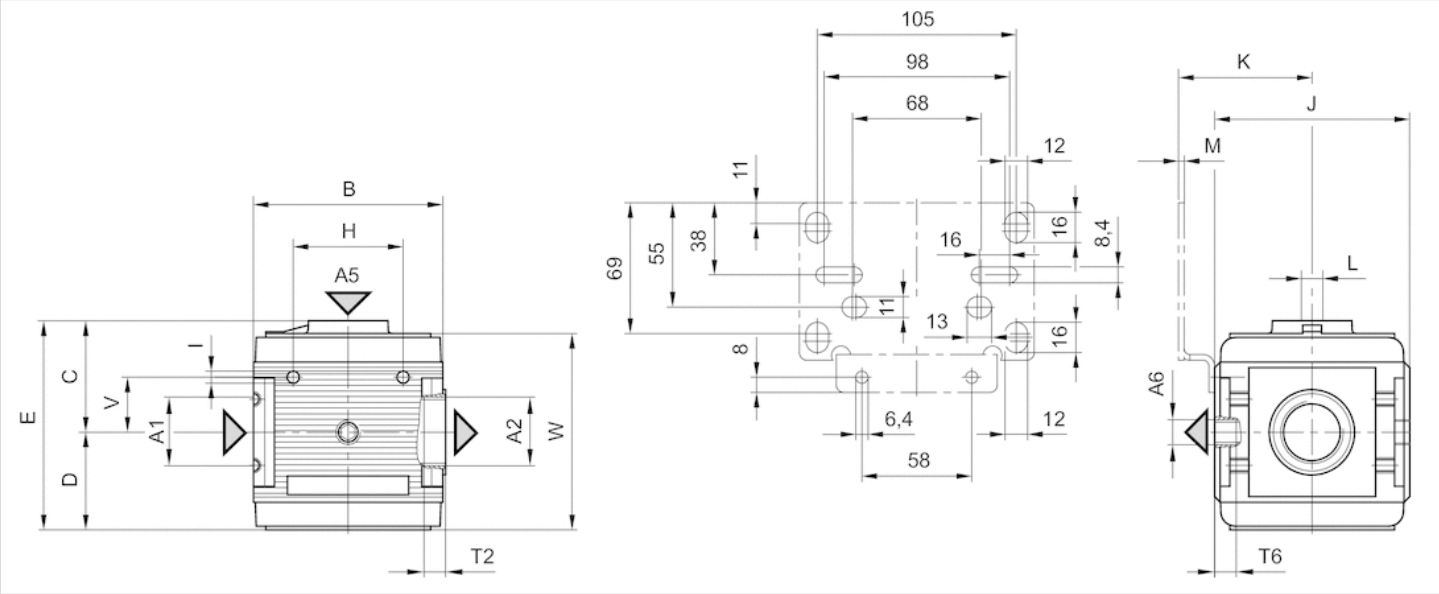
Recommended pre-filtering 5 µm

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



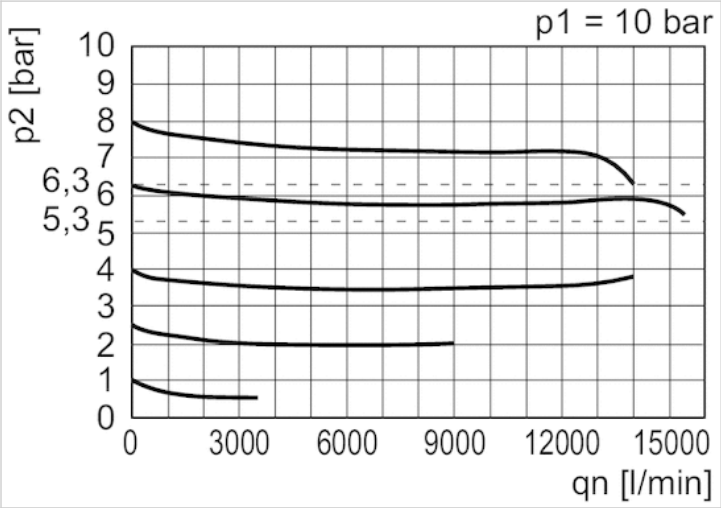
A1 = input
A2 = output
A5 = control pressure connection
A6 = ventilation port

Dimensions in mm

A1	A2	A5	A6	B	C	D	E	H	I	J	K	L	M	N	T2	T6	V	W
G 3/4	G 3/4	G 1/8	G 1/4	100	61	51.5	112.5	58	M6	103	70.5	G 1/4	3	7	9.5	7	29	103.5
G 1	G 1	G 1/8	G 1/4	100	61	51.5	112.5	58	M6	103	70.5	G 1/4	3	7	18	7	29	103.5

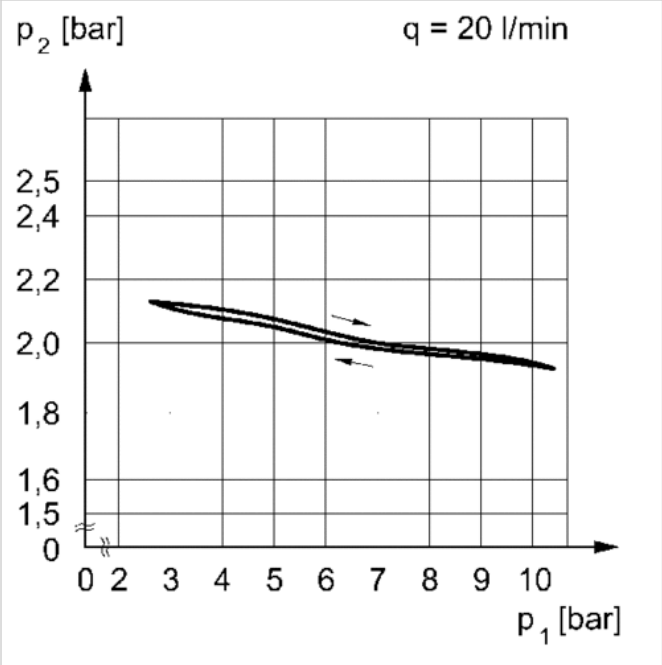
Diagrams

Flow rate characteristic (secondary range p2: 0.5 - 10 bar)



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

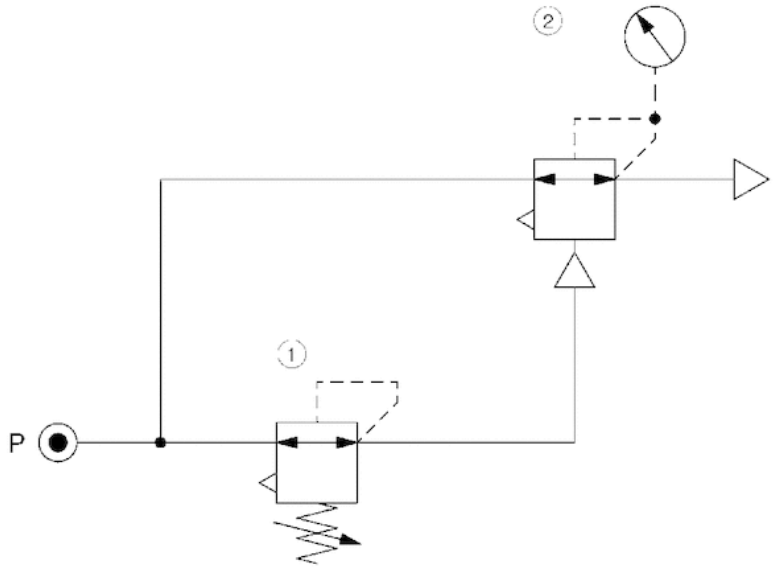
Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
q = flow rate

Circuit diagram

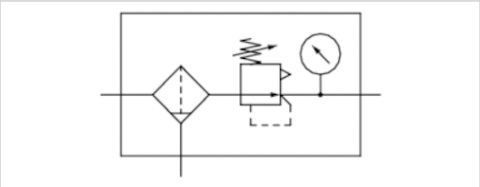
Application example



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

Filter pressure regulator, Series NL6-FRE

- G 1
- 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.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	15.24 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	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Max. Internal air consumption	0 Cv
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Condensate drain	Reservoir
0821300132	G 1	15.24 Cv	semi-automatic, open without pressure	Polycarbonate
0821300864	G 1	15.24 Cv	fully automatic, open without pressure	Die cast zinc

Part No.	Protective guard	Weight
0821300132	Steel	4.96 lbs
0821300864	-	5.47 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs, Pressure gauge enclosed 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 .
Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
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
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.

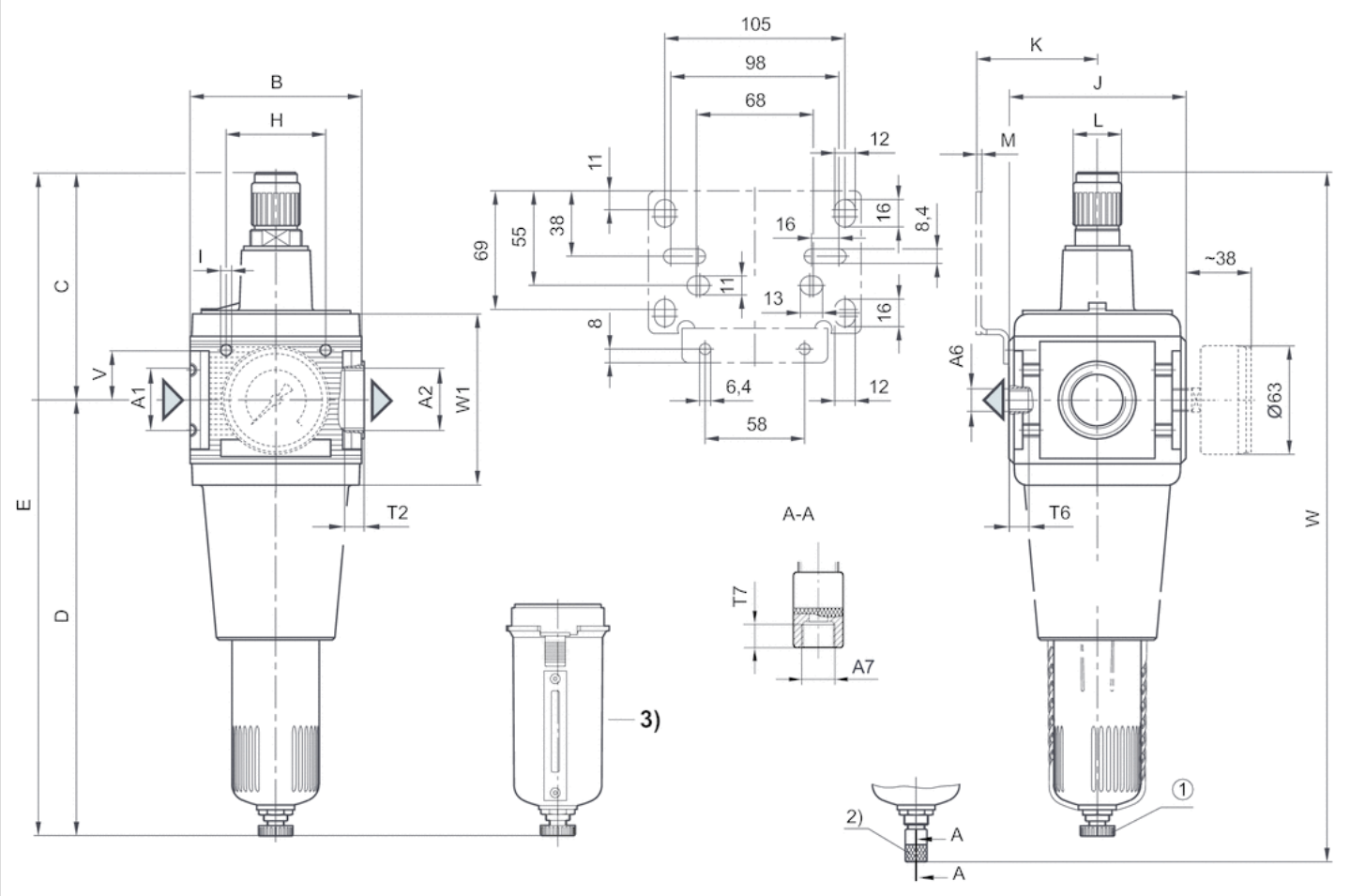
Compressed air class 6 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



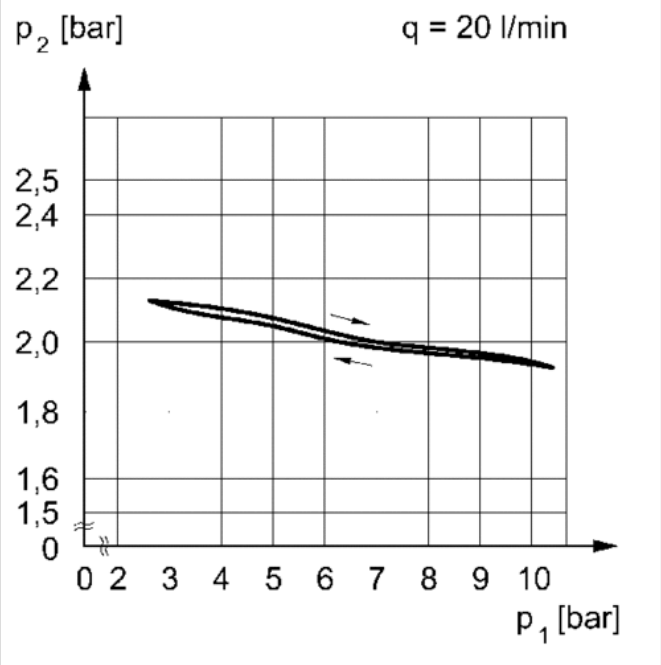
A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain
3) Metal reservoir with level indicator

Dimensions in mm

A1	A2	A6	A7	B	C	D	E	H	I	J	K	L	M	T2	T6	T7	V	W	W1
G 1	G 1	G 1/4	G 1/8	100	132	253	385	58	M6	103	70.5	28	3	18	7	8.5	29	397	101.5

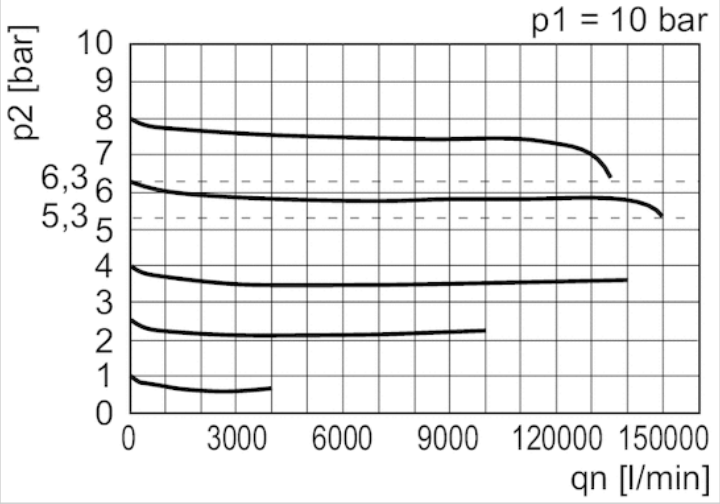
Diagrams

Pressure characteristics curve



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

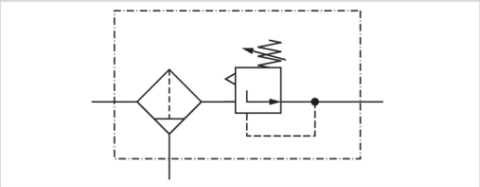
Flow rate characteristic



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

Filter pressure regulator, Series NL6-FRE

- G 1
- 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.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	15.24 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	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, open without pressure
Max. Internal air consumption	0 Cv
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Condensate drain	Reservoir	Weight
0821300885	G 1	15.24 Cv	fully automatic, open without pressure	Polycarbonate	4.81 lbs
0821300865	G 1	15.24 Cv	fully automatic, open without pressure	Die cast zinc	5.47 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
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
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.

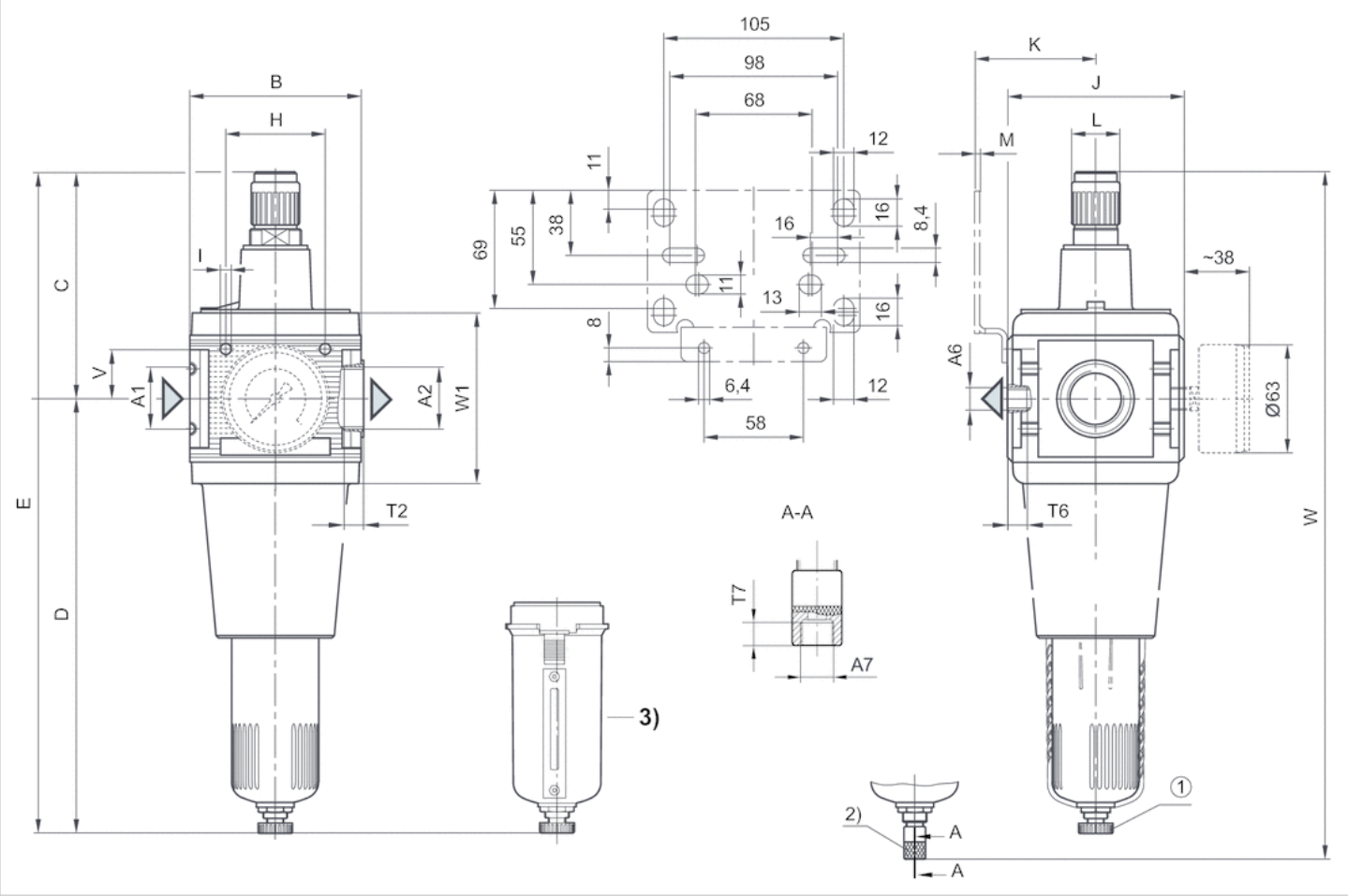
Compressed air class 6 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Filter insert	Polyethylene

Dimensions

Dimensions



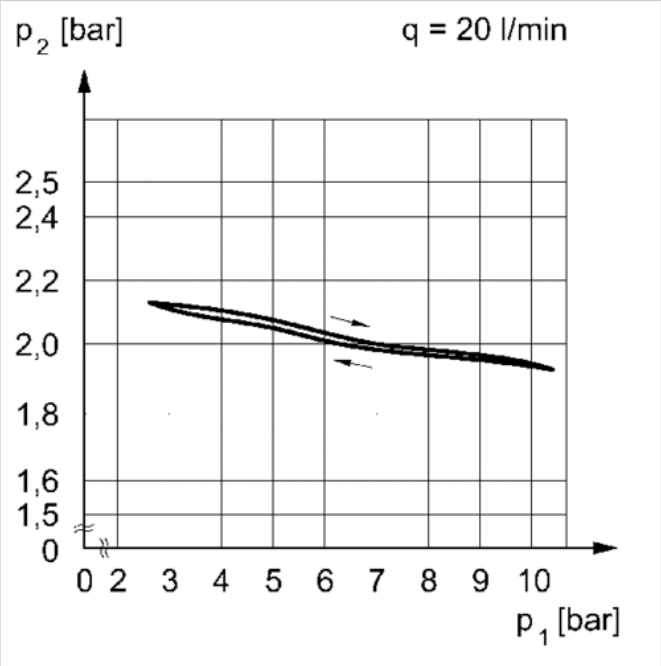
A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain
3) Metal reservoir with level indicator

Dimensions in mm

A1	A2	A6	A7	B	C	D	E	H	I	J	K	L	M	T2	T6	T7	V	W	W1
G 1	G 1	G 1/4	G 1/8	100	132	253	385	58	M6	103	70.5	28	3	18	7	8.5	29	397	101.5

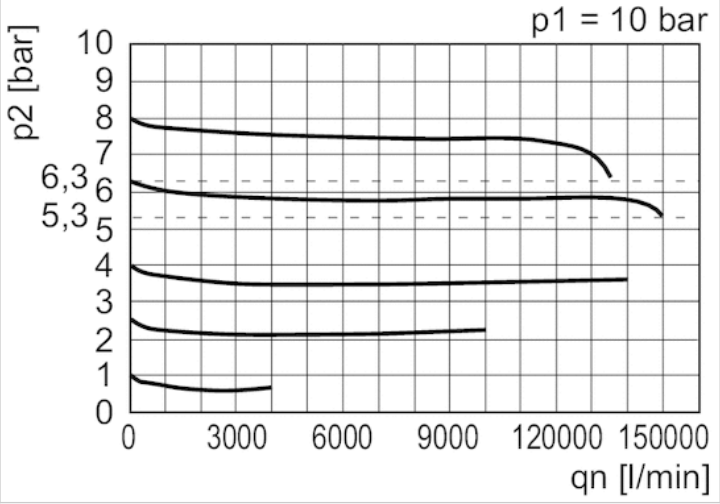
Diagrams

Pressure characteristics curve



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

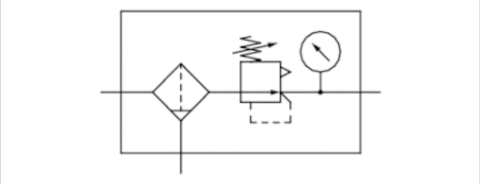
Flow rate characteristic



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

Filter pressure regulator, Series NL6-FRE

- G 3/4, G 1
- 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.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	15.24 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	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Max. Internal air consumption	0 Cv
Weight	See table below

Technical data

Part No.	Port	Flow Qn	Condensate drain	Reservoir
0821300850	G 3/4	15.24 Cv	semi-automatic, open without pressure	Polycarbonate
0821300851	G 3/4	15.24 Cv	semi-automatic, open without pressure	Polycarbonate
0821300852	G 3/4	15.24 Cv	semi-automatic, open without pressure	Die cast zinc
0821300853	G 3/4	15.24 Cv	fully automatic, open without pressure	Polycarbonate
0821300854	G 3/4	15.24 Cv	fully automatic, open without pressure	Polycarbonate
0821300855	G 3/4	15.24 Cv	fully automatic, open without pressure	Die cast zinc
0821300856	G 1	15.24 Cv	semi-automatic, open without pressure	Polycarbonate
0821300857	G 1	15.24 Cv	semi-automatic, open without pressure	Polycarbonate
0821300858	G 1	15.24 Cv	semi-automatic, open without pressure	Die cast zinc
0821300859	G 1	15.24 Cv	fully automatic, open without pressure	Polycarbonate
0821300860	G 1	15.24 Cv	fully automatic, open without pressure	Polycarbonate
0821300861	G 1	15.24 Cv	fully automatic, open without pressure	Die cast zinc

Part No.	Protective guard	Weight
0821300850	-	4.74 lbs
0821300851	Steel	11.68 lbs
0821300852	-	5.4 lbs
0821300853	-	4.81 lbs
0821300854	Steel	5.03 lbs

Part No.	Protective guard	Weight
0821300855	-	5.47 lbs
0821300856	-	4.74 lbs
0821300857	Steel	4.96 lbs
0821300858	-	5.4 lbs
0821300859	-	4.81 lbs
0821300860	Steel	5.03 lbs
0821300861	-	5.47 lbs

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

Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
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
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.

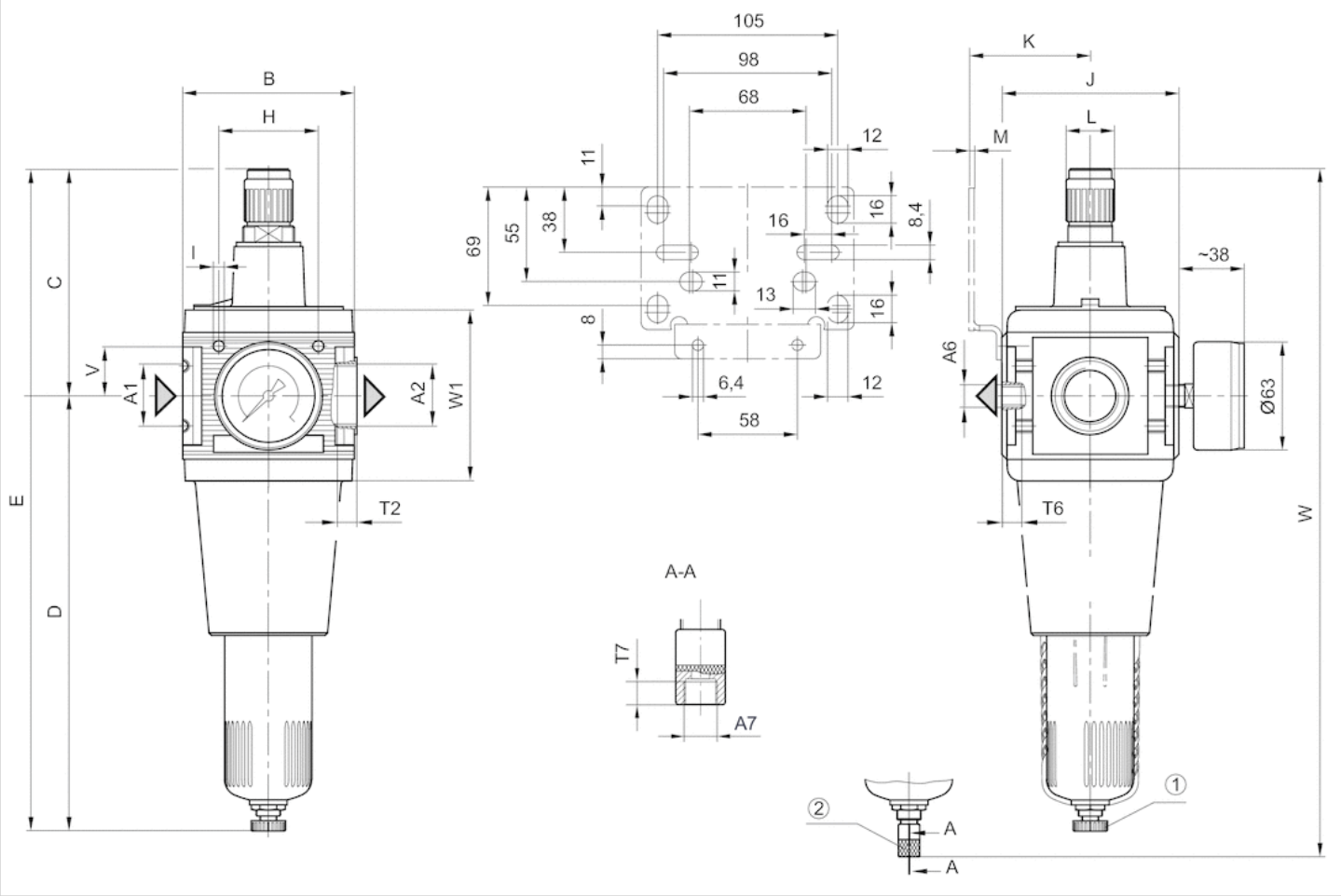
Compressed air class 7 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



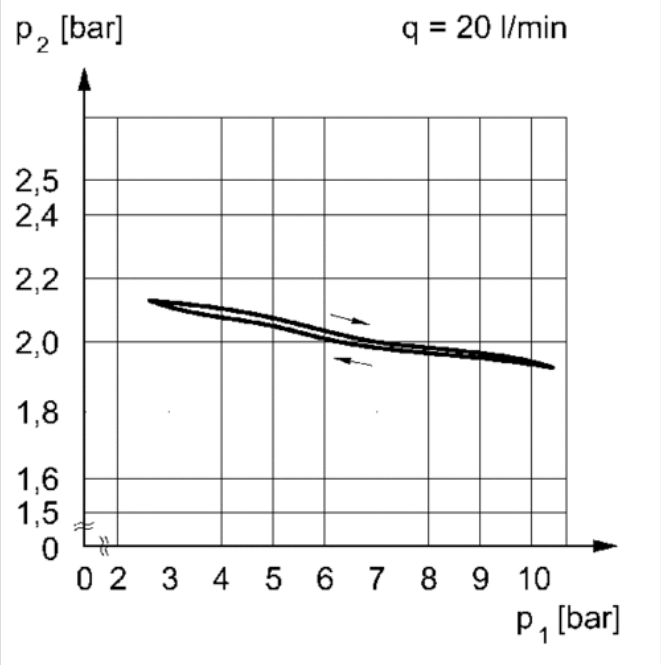
A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain

Dimensions in mm

A1	A2	A6	A7	B	C	D	E	H	I	J	K	L	M	T2	T6	T7	V	W	W1
G 3/4	G 3/4	G 1/4	G 1/8	100	132	253	385	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5
G 1	G 1	G 1/4	G 1/8	100	132	253	385	58	M6	103	70.5	28	3	18	7	8.5	29	403	101.5

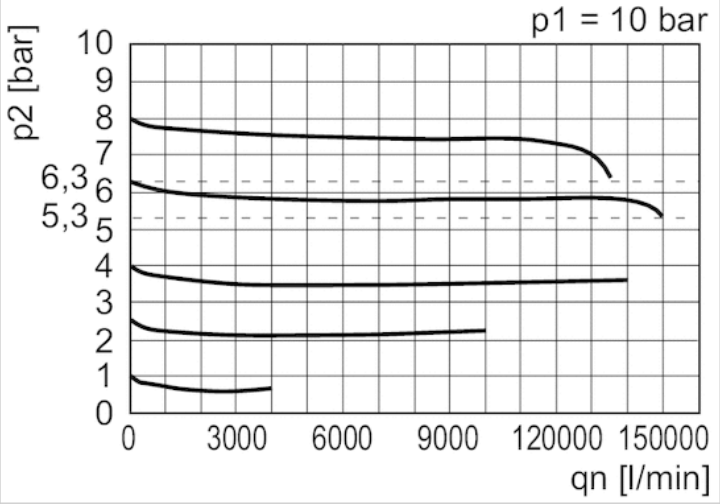
Diagrams

Pressure characteristics curve



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

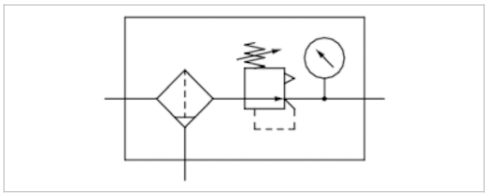
Flow rate characteristic



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

Filter pressure regulator, Series NL6-FRE

- G 3/4, G 1
- lockable
- with key
- 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.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Nominal flow Qn	15.24 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	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	semi-automatic, open without pressure
Max. Internal air consumption	0 Cv
Weight	4.98 lbs

Technical data

Part No.		Port	Flow	Condensate drain
			Qn	
0821300862		G 3/4	15.24 Cv	semi-automatic, open without pressure
0821300863		G 1	15.24 Cv	semi-automatic, open without pressure

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

Pressure gauge enclosed separately, Suitable for use in Ex zones 1, 2, 21, 22, Metal protective guard can be retrofitted for all polycarbonate reservoirs

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
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.

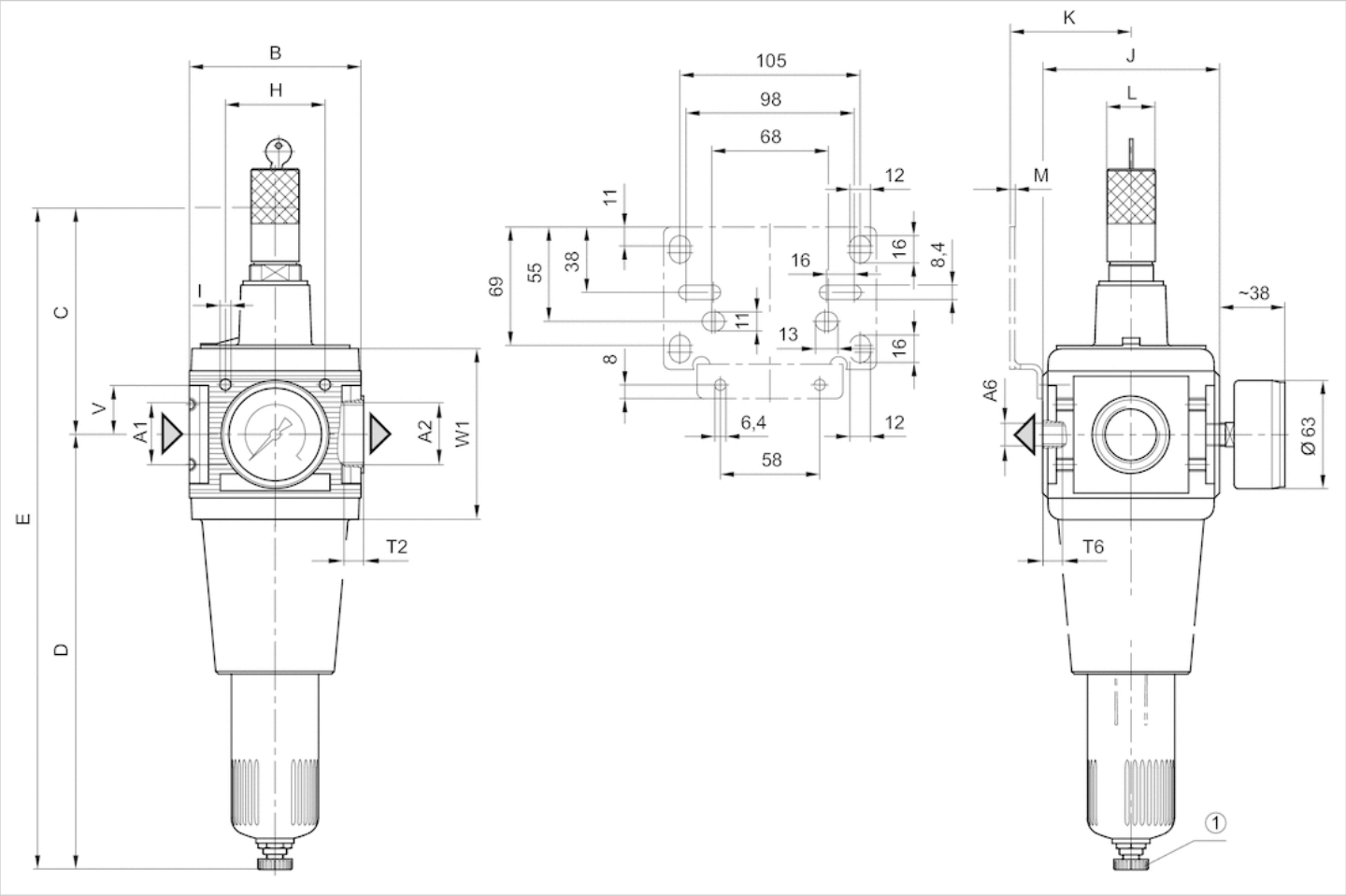
Compressed air class 7 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate
Filter insert	Polyethylene

Dimensions

Dimensions



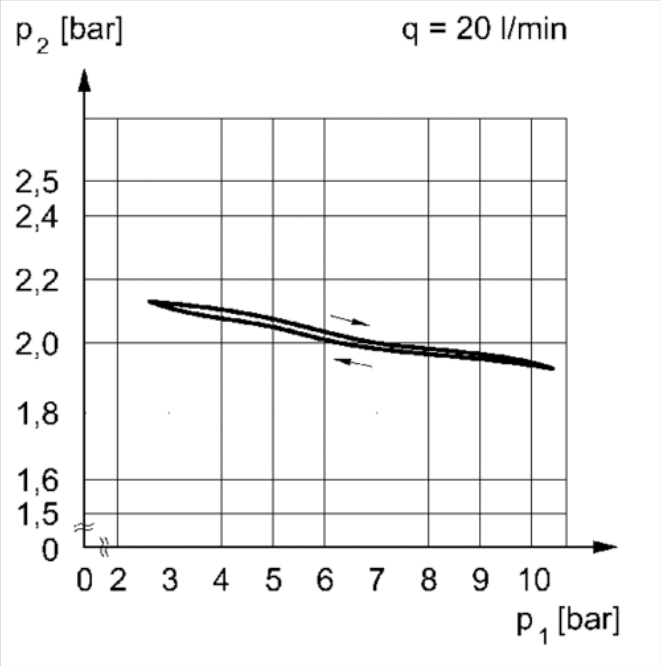
A1 = input
A2 = output
A6 = output
1) semi-automatic condensate drain

Dimensions in mm

A1	A2	A6	B	C	D	E	H	I	J	K	L	M	T2	T6	V	W1
G 3/4	G 3/4	G 1/4	100	157	253	410	58	M6	103	70.5	28	3	18	7	29	101.5
G 1	G 1	G 1/4	100	157	253	410	58	M6	103	70.5	28	3	18	7	29	101.5

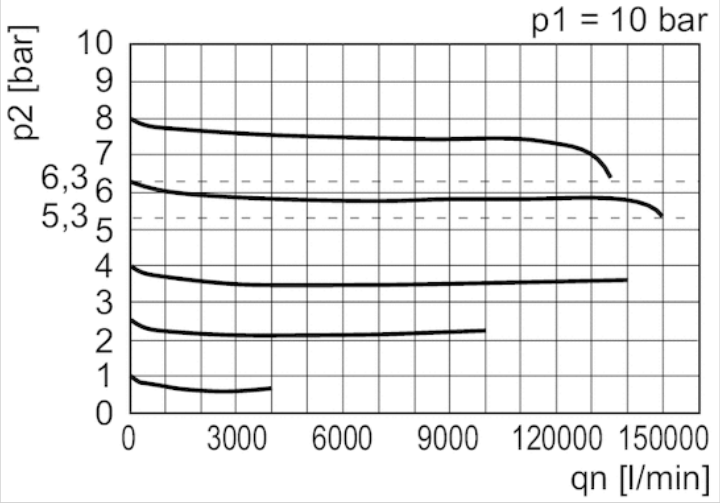
Diagrams

Pressure characteristics curve



p1 = working pressure
p2 = secondary pressure
q = flow rate

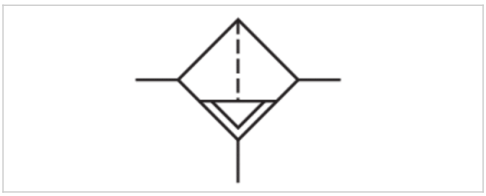
Flow rate characteristic



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

Filter, Series NL6-FLS

- G 1
- 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 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, open without pressure
Weight	See table below

Technical data

Part No.	Port	Qn	Protective guard	Weight
0821303820	G 1	7.32 Cv	-	4.34 lbs
0821303821	G 1	7.32 Cv	Steel	4.39 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

Mounting with mounting bracket 1821336017
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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.
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 : -

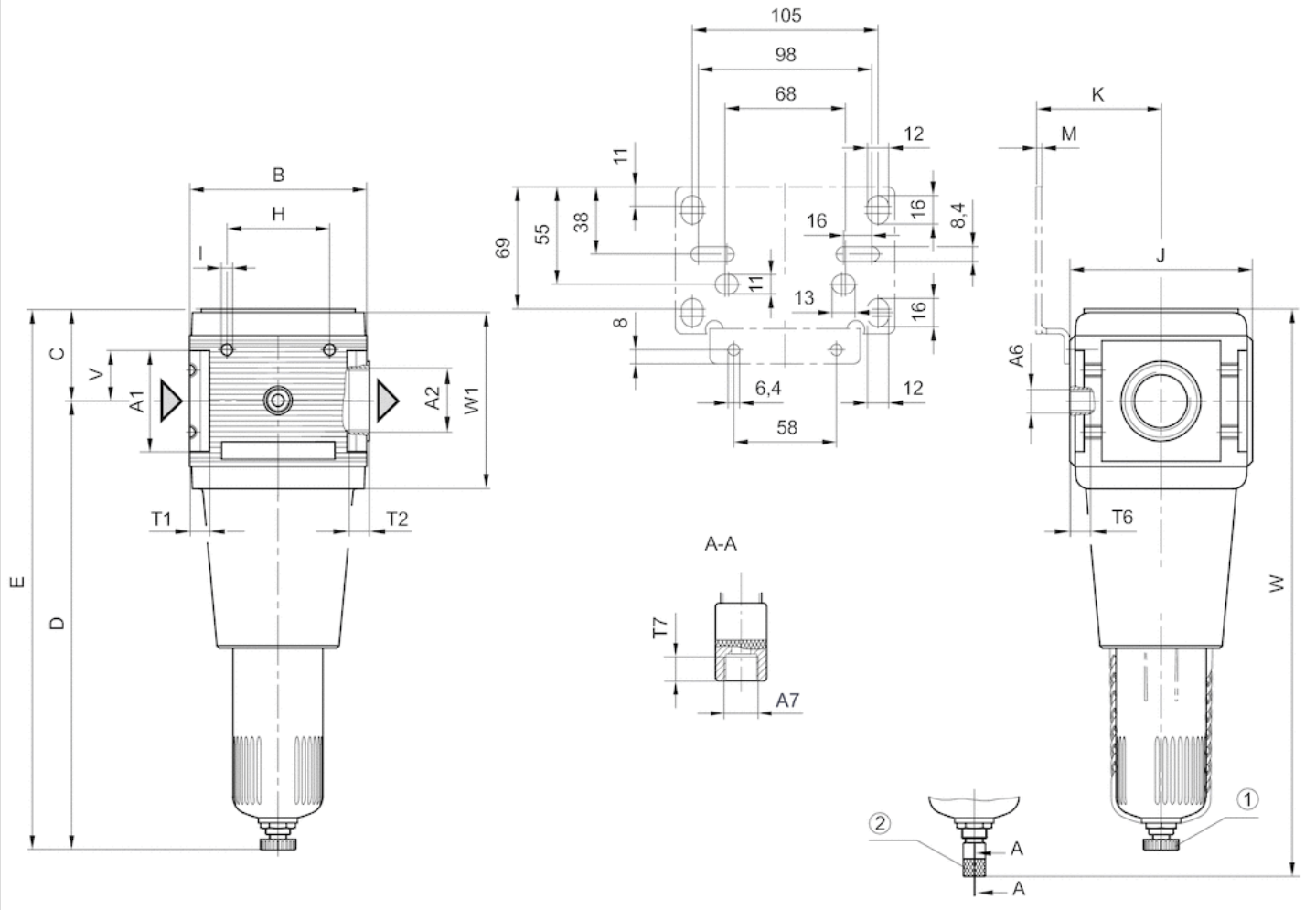
Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



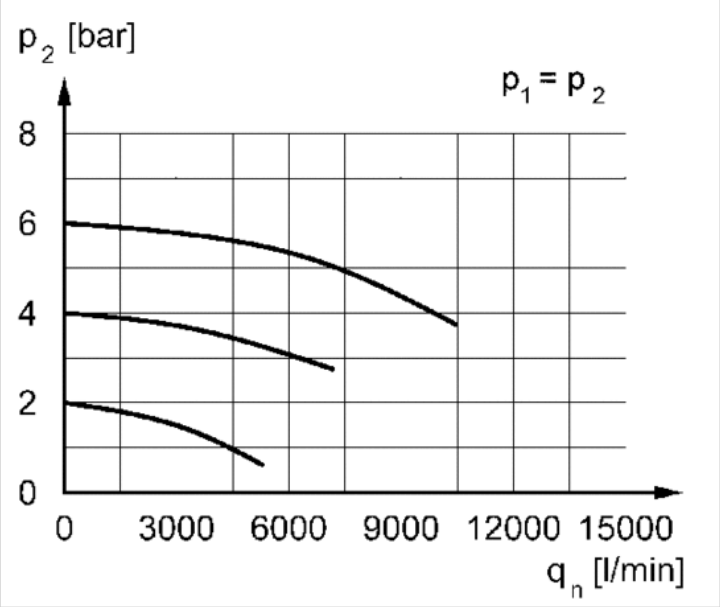
A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain

Dimensions in mm

A1	A2	A6	A7	B	C	D	E	H	I	J	K	M	T1	T2	T6	T7	V	W	W1
G 1	G 1	G 1/4	G 1/8	100	52	254	306	58	M6	103	70.5	3	18	18	7	8.5	29	321	101.5

Diagrams

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Filter, Series NL6-FLS

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

Version	Standard filter, Can be assembled into blocks
Parts	Filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	See table below
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	4.23 fl.oz.
Filter element	exchangeable
Condensate drain	See table below
Weight	See table below

Technical data

Part No.	Port	Qn	Working pressure min./max.	Condensate drain
0821303801	G 3/4	7.32 Cv	22 ... 232 psi	semi-automatic, open without pressure
0821303802	G 3/4	7.32 Cv	22 ... 232 psi	semi-automatic, open without pressure
0821303803	G 3/4	7.32 Cv	22 ... 290 psi	semi-automatic, open without pressure
0821303804	G 3/4	7.32 Cv	22 ... 232 psi	fully automatic, open without pressure
0821303805	G 3/4	7.32 Cv	22 ... 232 psi	fully automatic, open without pressure
0821303806	G 3/4	7.32 Cv	22 ... 290 psi	fully automatic, open without pressure
0821303807	G 1	7.32 Cv	22 ... 232 psi	semi-automatic, open without pressure
0821303808	G 1	7.32 Cv	22 ... 232 psi	semi-automatic, open without pressure
0821303809	G 1	7.32 Cv	22 ... 290 psi	semi-automatic, open without pressure
0821303810	G 1	7.32 Cv	22 ... 232 psi	fully automatic, open without pressure
0821303811	G 1	7.32 Cv	22 ... 232 psi	fully automatic, open without pressure
0821303812	G 1	7.32 Cv	22 ... 290 psi	fully automatic, open without pressure

Part No.	Reservoir	Protective guard	Weight
0821303801	Polycarbonate	-	3.64 lbs
0821303802	Polycarbonate	Steel	3.86 lbs
0821303803	Die cast zinc, with window	-	4.3 lbs
0821303804	Polycarbonate	-	3.7 lbs
0821303805	Polycarbonate	Steel	3.92 lbs
0821303806	Die cast zinc, with window	-	4.37 lbs
0821303807	Polycarbonate	-	3.64 lbs
0821303808	Polycarbonate	Steel	3.86 lbs

Part No.	Reservoir	Protective guard	Weight
0821303809	Die cast zinc, with window	-	4.3 lbs
0821303810	Polycarbonate	-	3.7 lbs
0821303811	Polycarbonate	Steel	3.92 lbs
0821303812	Die cast zinc, with window	-	4.37 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs

Technical information

Mounting with mounting bracket 1821336017
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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.
Also suitable for separation of fluid oil or water due to the design.

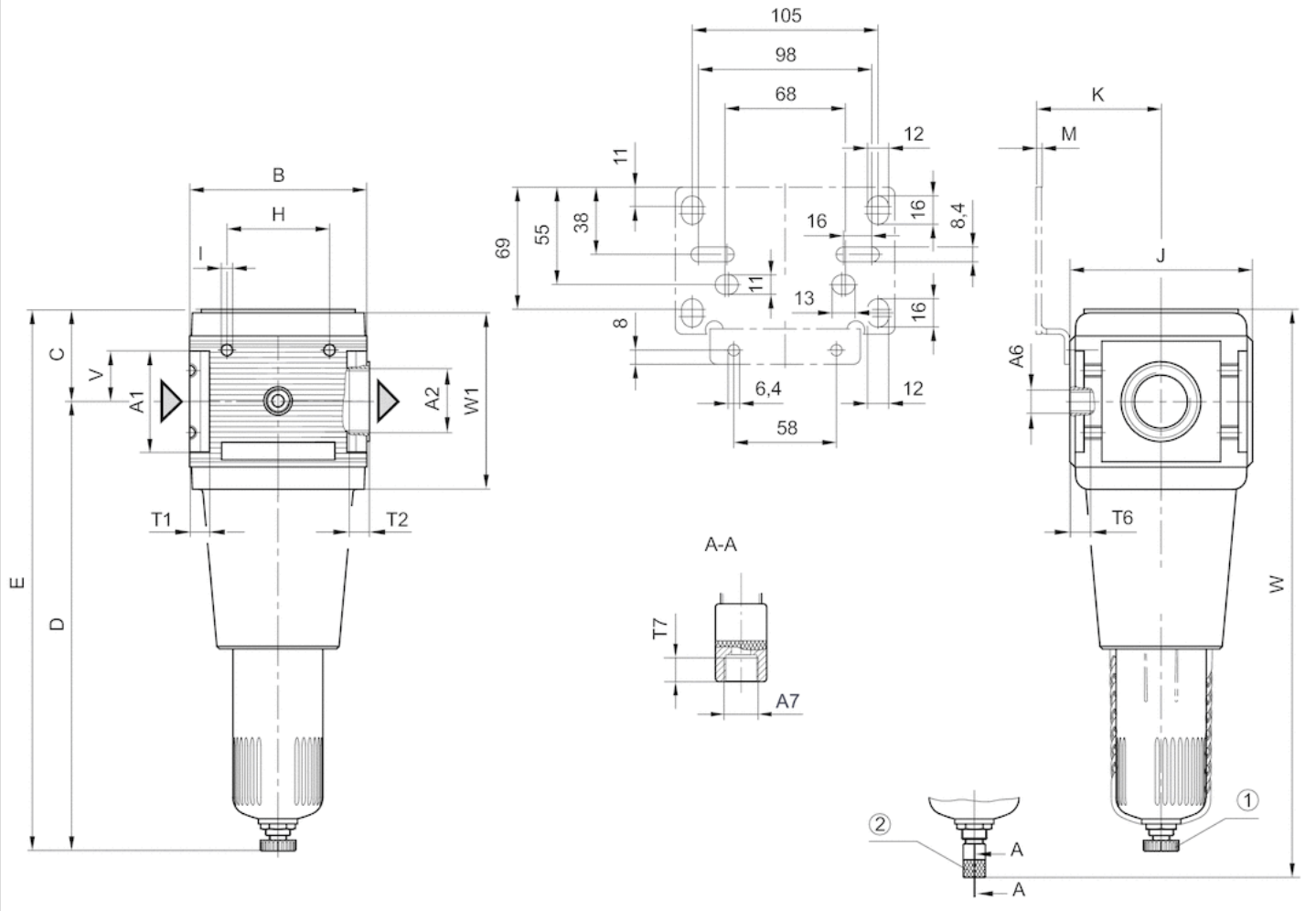
Max. achievable compressed air class acc. to ISO 8573-1:2010 7 : 7 : -

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Steel
Filter insert	Polyethylene

Dimensions

Dimensions



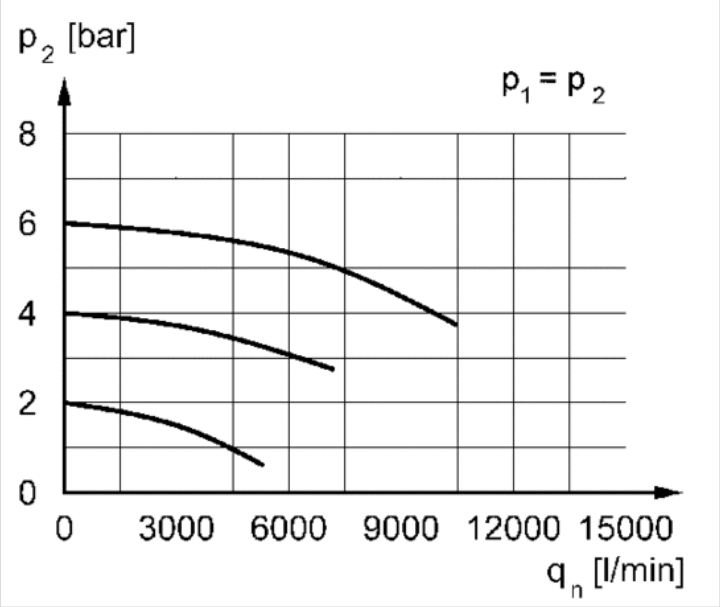
A1 = input
A2 = output
A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain
2) fully automatic condensate drain

Dimensions in mm

A1	A2	A6	A7	B	C	D	E	H	I	J	K	M	T1	T2	T6	T7	V	W	W1
G 3/4	G 3/4	G 1/4	G 1/8	100	52	254	306	58	M6	103	70.5	3	18	18	7	8.5	29	321	101.5
G 1	G 1	G 1/4	G 1/8	100	52	254	306	58	M6	103	70.5	3	18	18	7	8.5	29	321	101.5

Diagrams

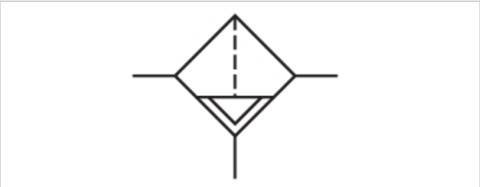
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Pre-filter, Series NL6-FLP

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



Version	Pre-filter, Can be assembled into blocks
Parts	Pre-filter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	5.07 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, open without pressure
Weight	See table below

Technical data

Part No.	Port	Qn	Weight
0821303818	G 3/4	1.63 Cv	3.66 lbs
0821303816	G 1	1.63 Cv	4.34 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, Dust separation = 99.99%, Differential pressure gauge can be retrofitted to monitor the filter

Technical information

Mounting: mounting bracket 1821336017 / block assembly kit 1827009593
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
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.

Recommended pre-filtering 5 µm

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

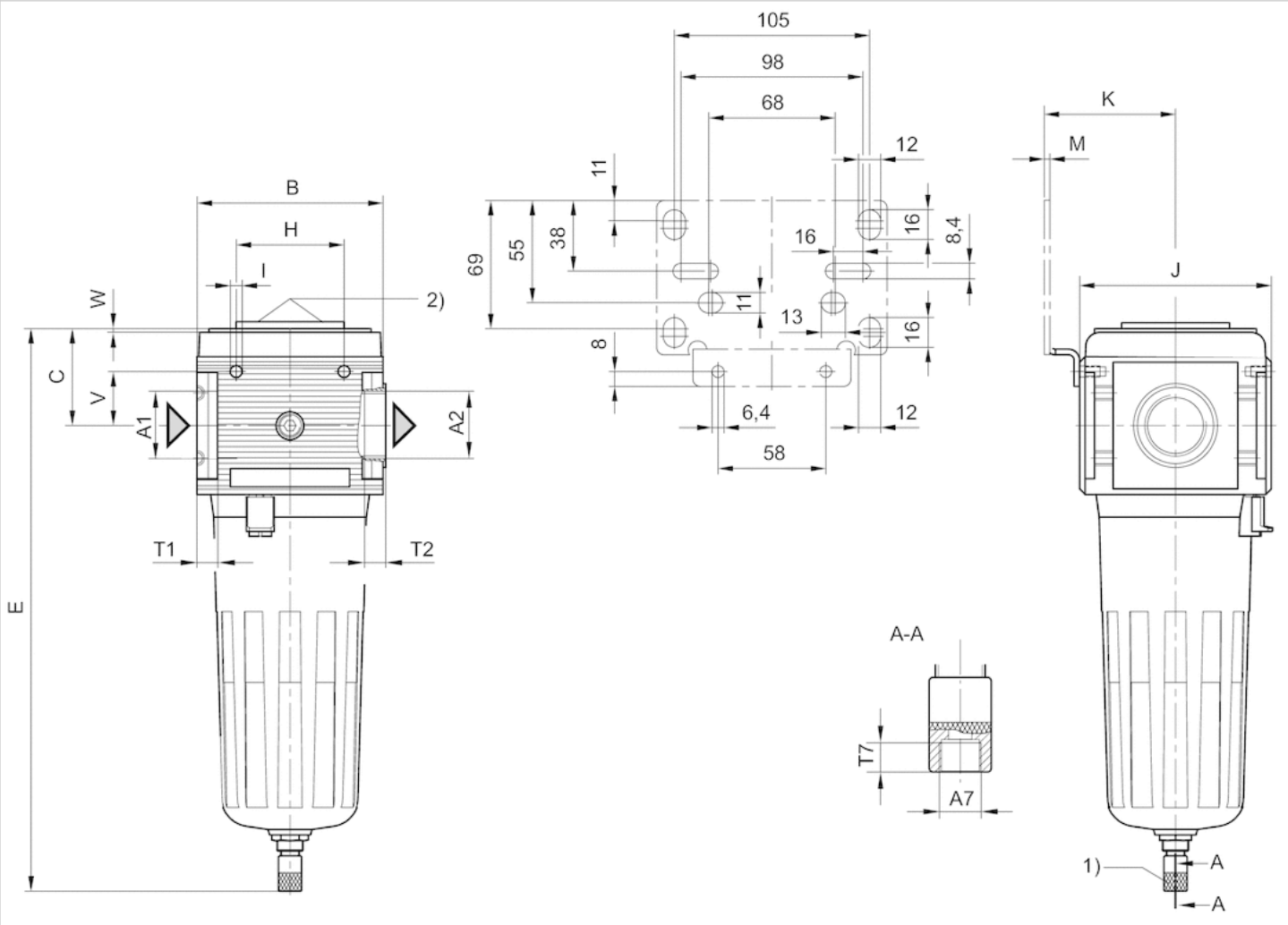
Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene rubber
Reservoir	Die cast zinc
Filter insert	Impregnated paper

Dimensions

Dimensions



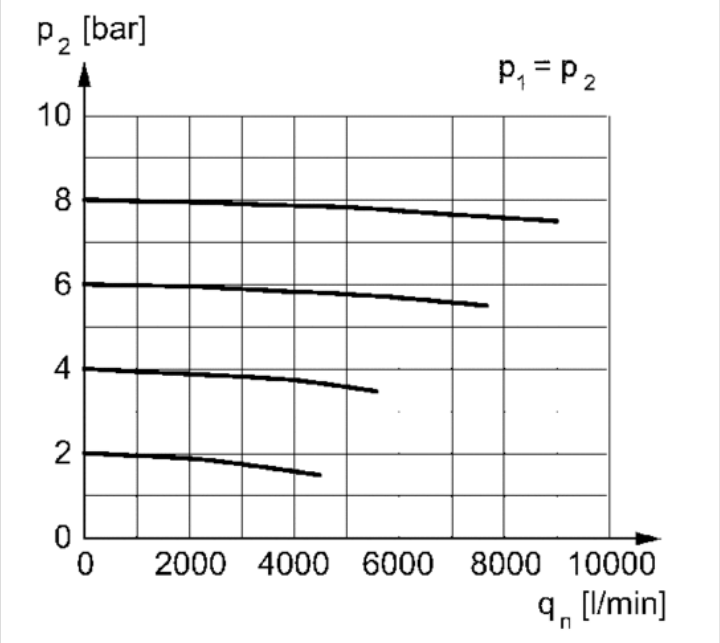
A1 = input
A2 = output
A7 = condensate drain
1) Fully automatic condensate drain
2) Differential pressure gauge connection

Dimensions in mm

A1	A2	A7	B	C	E	H	I	J	K	M	T1	T2	T7	V	W
G 3/4	G 3/4	G 1/8	100	52	301	58	M6	103	70.5	3	16	16	8.5	29	5
G 1	G 1	G 1/8	100	52	401	58	M6	103	70.5	3	16	16	8.5	29	5

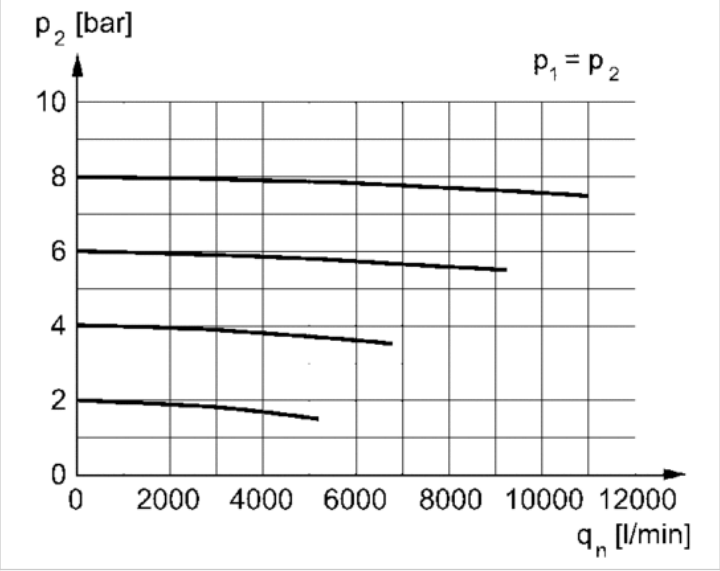
Diagrams

Flow rate characteristic 0821303818



p2 = secondary pressure
qn = nominal flow

Flow rate characteristic 0821303816



Microfilter, Series NL6-FLC

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

Version	Microfilter, Can be assembled into blocks
Parts	Microfilter
Mounting orientation	vertical
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	5.07 fl.oz.
Filter element	exchangeable
Condensate drain	fully automatic, open without pressure
Weight	See table below

Technical data

Part No.	Port	Qn	Weight
0821303819	G 3/4	2.64 Cv	3.66 lbs
0821303814	G 1	4.27 Cv	4.34 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, Differential pressure gauge can be retrofitted to monitor the filter

Technical information

Reservoir: metal, with bayonet catch
Suitable for use in Ex zones 1, 2, 21, 22
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".
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

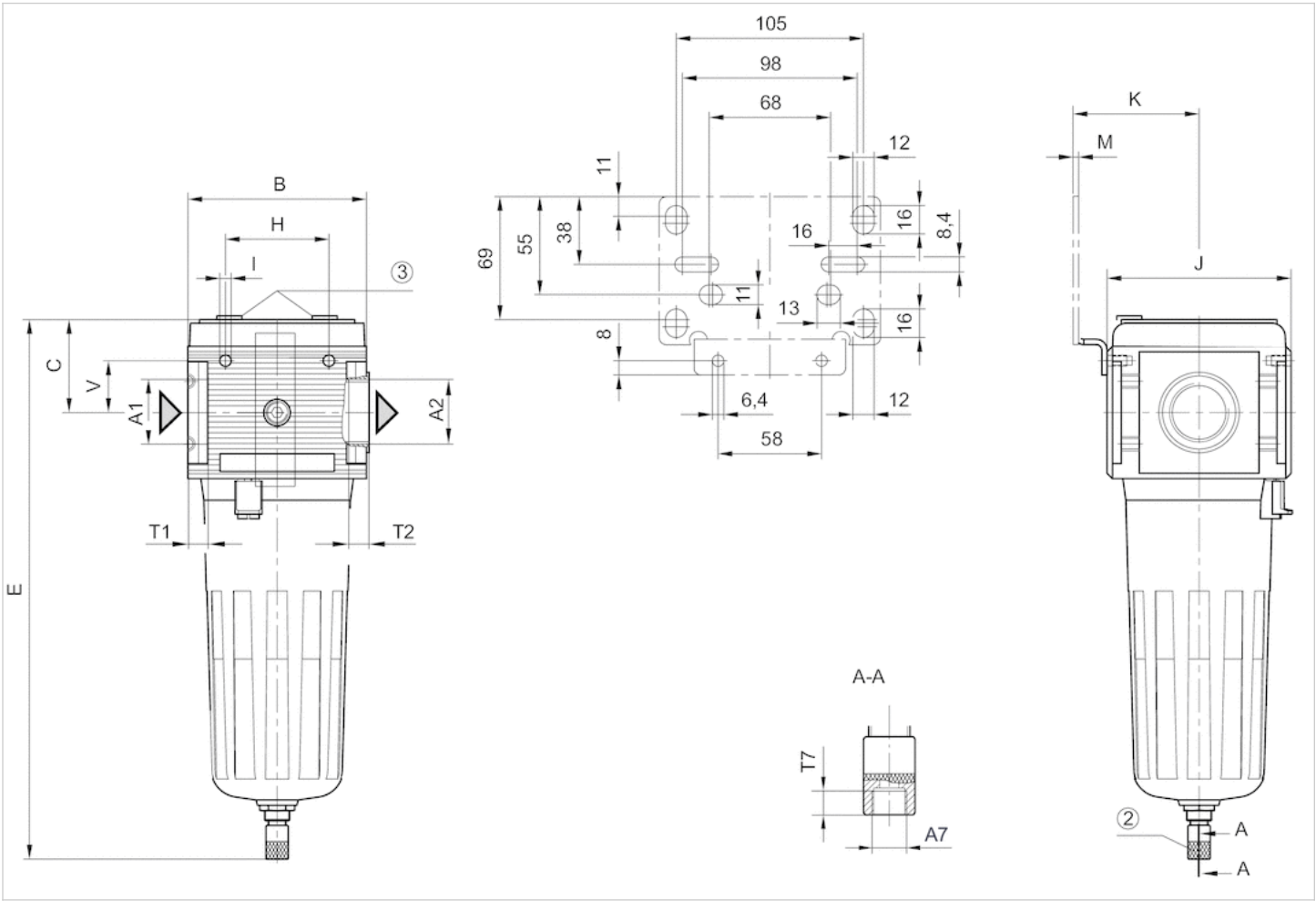
Max. achievable compressed air class acc. to ISO 8573-1:2010 1 : - : 2

Technical information

Material	
Housing	Die cast zinc
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Die cast zinc
Filter insert	Borosilicate glass fiber

Dimensions

Dimensions



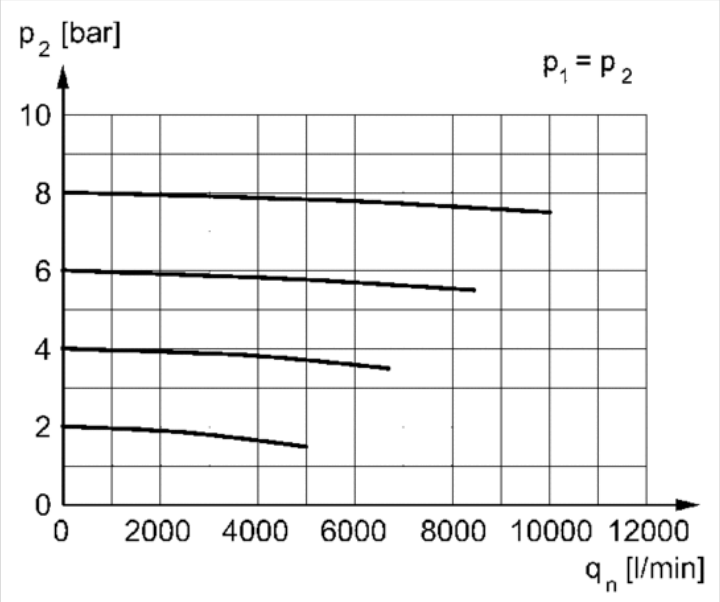
A1 = input
A2 = output
A7 = condensate drain
1) Fully automatic condensate drain
2) Differential pressure gauge connection

Dimensions in mm

A1	A2	A7	B	C	E	H	I	J	K	M	T1	T2	T7	V
G 3/4	G 3/4	G 1/8	100	54	307	58	M6	103	70.5	3	16	16	8.5	29
G 1	G 1	G 1/8	100	54	407	58	M6	103	70.5	3	16	16	8.5	29

Diagrams

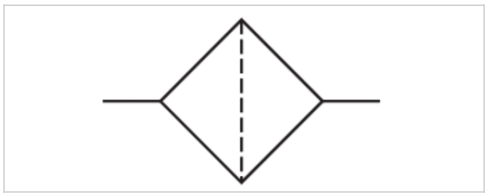
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Active carbon filter, Series NL6-FLA

- G 3/4, G 1
- 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.	8 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Filter reservoir volume	4.4 fl.oz.
Filter element	exchangeable
Weight	See table below

Technical data

Part No.	Port	Qn	Weight
0821303817	G 3/4	4.07 Cv	3.57 lbs
0821303815	G 1	5.59 Cv	4.23 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 .
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

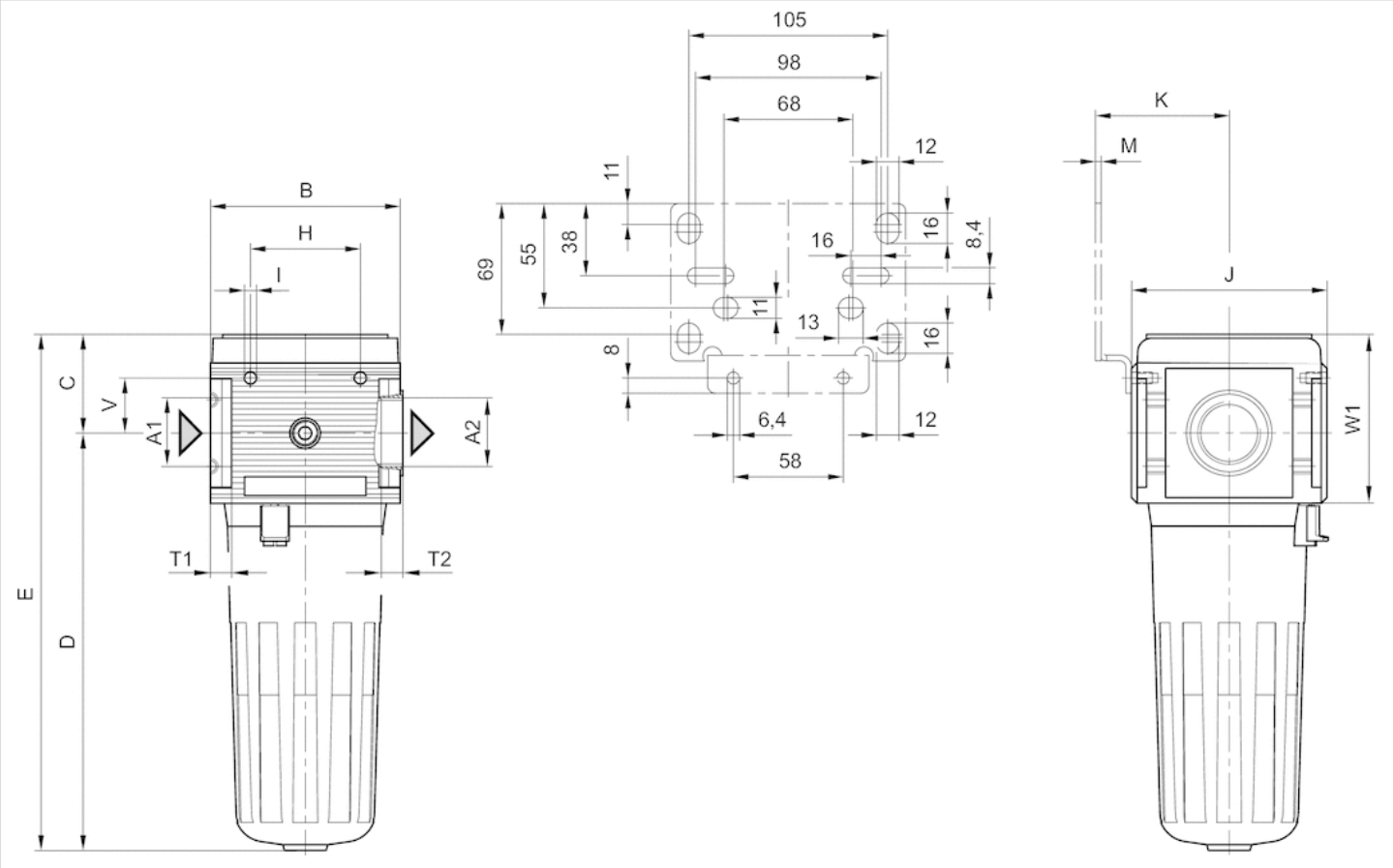
Technical information

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

Material	
Reservoir	Die cast zinc
Filter insert	Active carbon

Dimensions

Dimensions



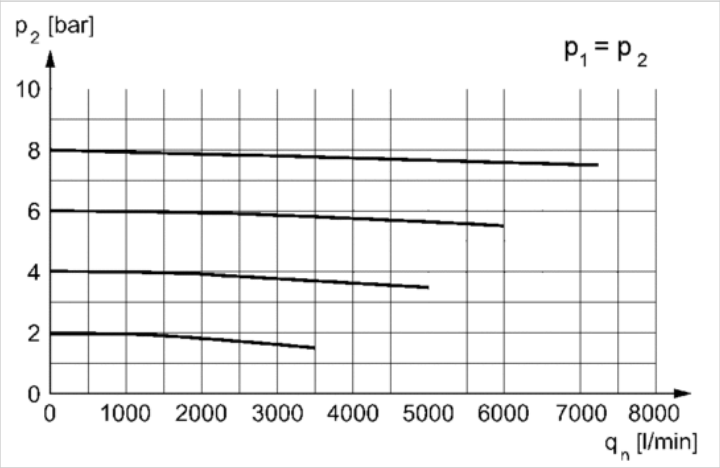
A1 = input
A2 = output

Dimensions in mm

A1	A2	B	C	D	E	H	I	J	K	M	T1	T2	V	W1
G 3/4	G 3/4	100	54	223	280	58	M6	103	70.5	3	16	16	29	89
G 1	G 1	100	54	323	380	58	M6	103	70.5	3	16	16	29	89

Diagrams

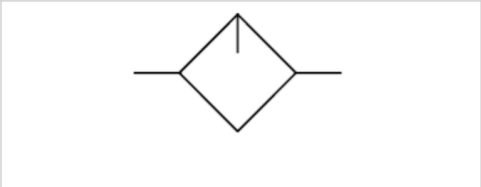
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Standard oil-mist lubricator, Series NL6-LBS

- G 3/4, G 1
- 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 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Lubricator reservoir volume	15.22 fl.oz.
Type of filling	Manual oil filling
Weight	See table below

Technical data

Part No.	Port	Nominal flow Qn	Reservoir	Protective guard	Weight
0821301801	G 3/4	18.29 Cv	Polycarbonate	-	3.31 lbs
0821301802	G 3/4	18.29 Cv	Polycarbonate	Steel	3.53 lbs
0821301803	G 3/4	18.29 Cv	Die cast zinc, with window	-	3.97 lbs
0821301804	G 1	18.29 Cv	Polycarbonate	-	3.31 lbs
0821301805	G 1	18.29 Cv	Polycarbonate	Steel	3.53 lbs
0821301806	G 1	18.29 Cv	Die cast zinc, with window	-	3.97 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, Metal protective guard can be retrofitted for all polycarbonate reservoirs

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 entire preset drip quantity enters the pressure system
Manual oil filling possible during operation
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.

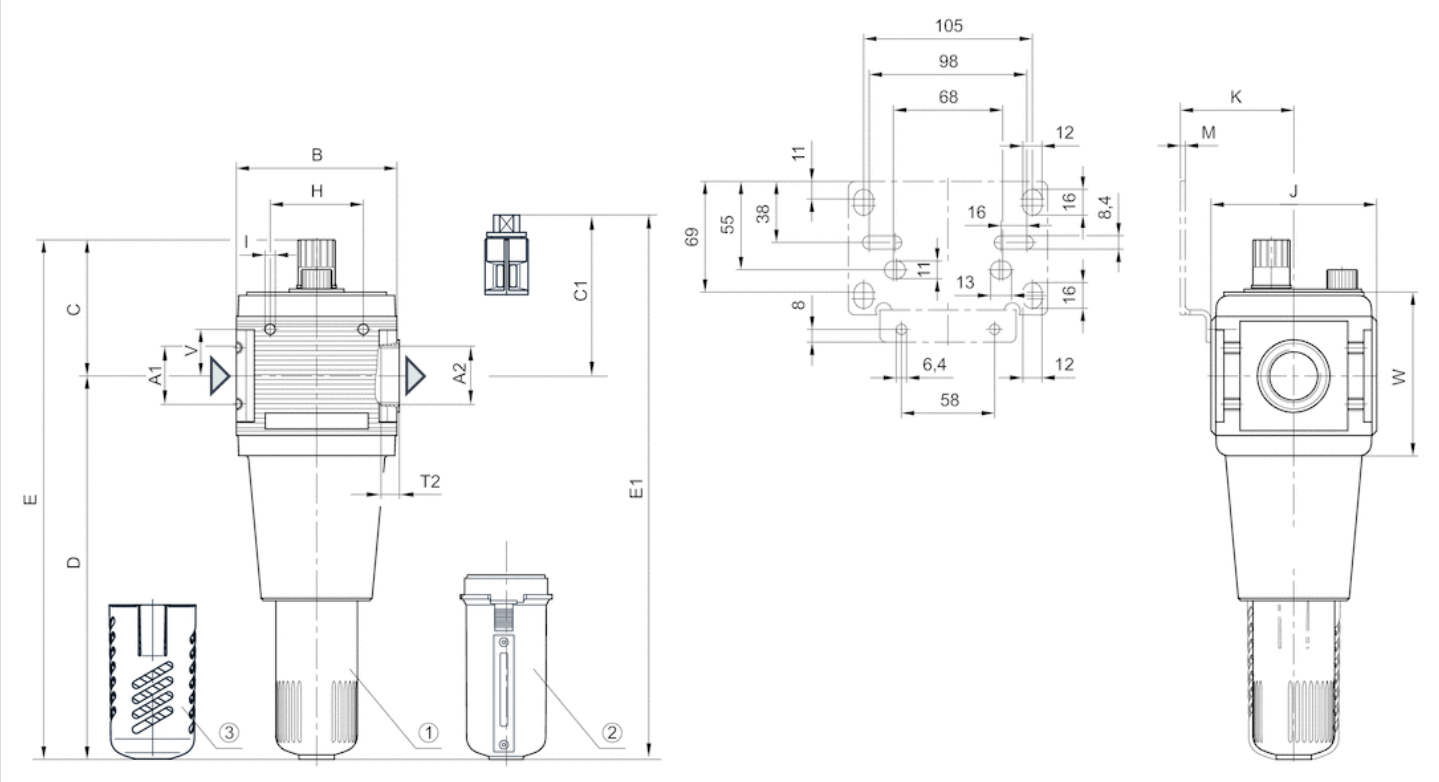
Oil dosing at 1 Cv 1-2 drops

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Reservoir	Polycarbonate, Die cast zinc
Protective guard	Steel

Dimensions

Dimensions



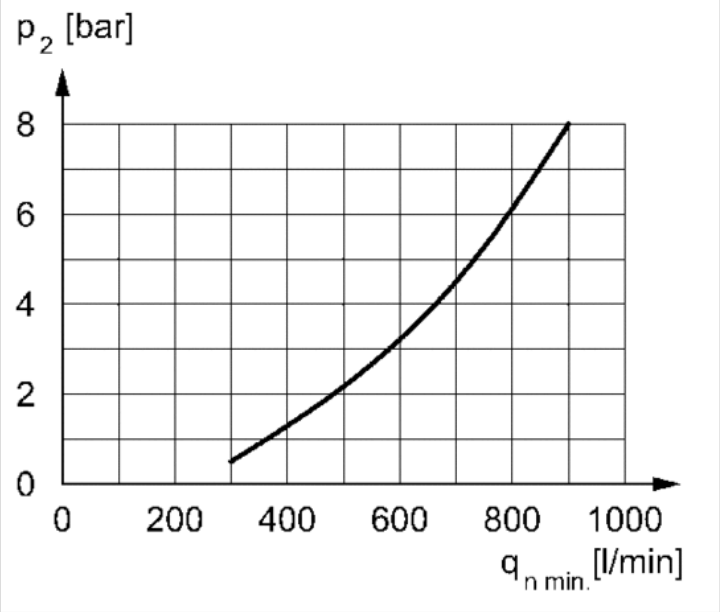
A1 = input
A2 = output
1) PC reservoir
2) Metal reservoir with inspection glass
3) metal protective guard

Dimensions in mm

A1	A2	B	C	C1	D	E	E1	H	I	J	K	M	T2	V	W
G 3/4	G 3/4	100	85	-	238	321	-	58	M6	103	70.5	3	18	29	101.5
G 3/4	G 3/4	100	85	100	238	321	336,5	58	M6	103	70.5	3	18	29	101.5
G 1	G 1	100	85	-	238	321	-	58	M6	103	70.5	3	18	29	101.5
G 1	G 1	100	85	100	238	321	336,5	58	M6	103	70.5	3	18	29	101.5

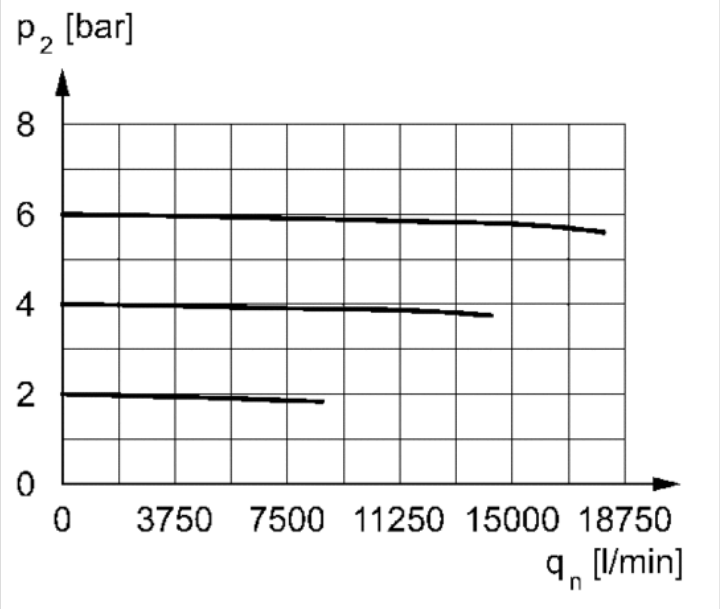
Diagrams

minimum flow rate curve (flow rate necessary for the correct functioning of the lubricator)



p2 = secondary pressure
qnmin. = min. nominal flow

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Filling unit, electrically operated, Series NL6-SSU

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

Version	Poppet valve, Can be assembled into blocks
Parts	Filling valve, 3/2-directional valve, electrically operated
Nominal flow 1 ▸ 2	8.89 Cv
Nominal flow 2 ▸ 3	3.96 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 140 °F
Ambient temperature min./max.	14 ... 140 °F
Pilot	Internal
Sealing principle	Soft sealing
Max. particle size	5 µm
Protection class acc. to DIN EN 61140,with plug	IP65
Duty cycle	100 %
Weight	See table below

Technical data

Part No.			Compressed air connection input	Compressed air connection output	Exhaust
0821300959		–	G 3/4	G 3/4	G 1/2
0821300958		–	G 3/4	G 3/4	G 1/2
0821300960		–	G 3/4	G 3/4	G 1/2
0821300994			G 3/4	G 3/4	G 1/2
0821300961		–	G 1	G 1	G 1/2
0821300962		–	G 1	G 1	G 1/2
0821300963		–	G 1	G 1	G 1/2
0821300995			G 1	G 1	G 1/2

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
0821300959	24 V	-	-
0821300958	-	230 V	230 V
0821300960	-	-	-
0821300994	-	-	-
0821300961	24 V	-	-
0821300962	-	230 V	230 V
0821300963	-	-	-
0821300995	-	-	-

Part No.	Power consumption	Holding power	Switch-on power	Manual override
	DC	AC 50 Hz	AC 50 Hz	
0821300959	4.8 W	-	-	-
0821300958	-	8.5 VA	11.8 VA	-
0821300960	-	-	-	without
0821300994	-	-	-	with detent
0821300961	4.8 W	-	-	-
0821300962	-	8.5 VA	11.8 VA	-
0821300963	-	-	-	without
0821300995	-	-	-	with detent

Part No.	Electrical connection	basic valve with electrical connector
	Pilot valve	
0821300959	Plug, ISO 6952, form B	-
0821300958	Plug, ISO 6952, form B	-
0821300960	-	pilot valve without coil
0821300994	-	pilot valve without coil
0821300961	Plug, ISO 6952, form B	-
0821300962	Plug, ISO 6952, form B	-
0821300963	-	pilot valve without coil
0821300995	-	pilot valve without coil

Part No.	Reverse polarity protection	Weight
0821300959	Protected against polarity reversal	6.9 lbs
0821300958	Protected against polarity reversal	6.9 lbs
0821300960	-	6.75 lbs
0821300994	-	6.75 lbs
0821300961	Protected against polarity reversal	6.9 lbs
0821300962	Protected against polarity reversal	6.9 lbs
0821300963	-	6.75 lbs
0821300995	-	6.75 lbs

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

Technical information

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.
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 ATEX coil.
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

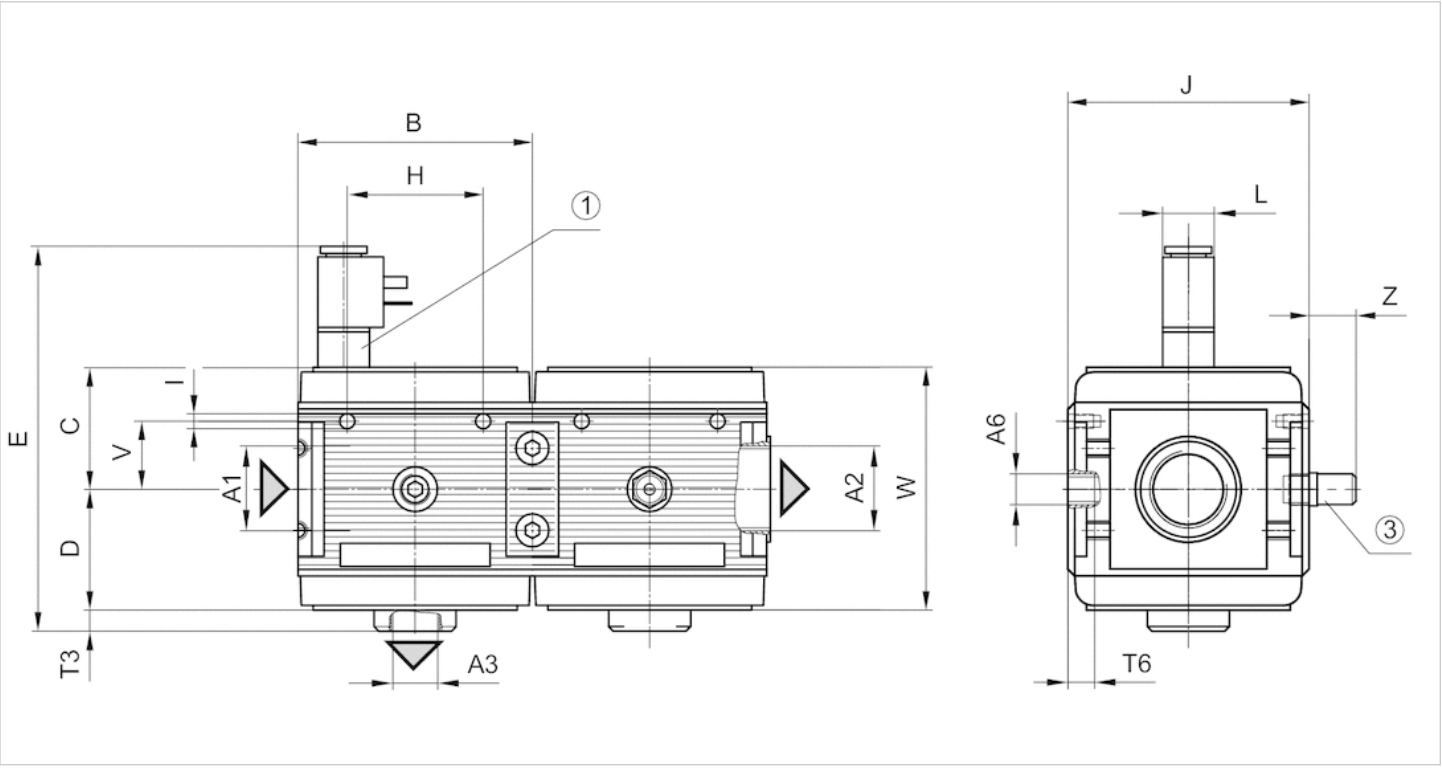
Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene

Material	
Seals	Acrylonitrile butadiene styrene

Dimensions

Dimensions



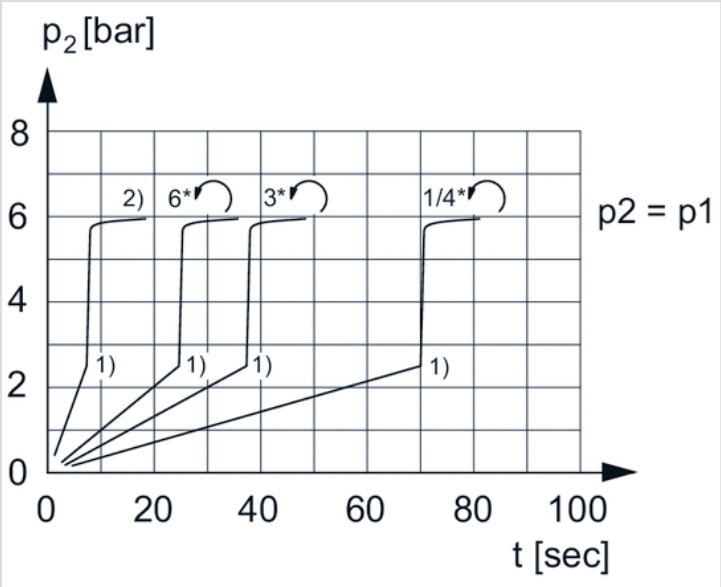
A1 = input
A2 = output
A3 = ventilation port
1) electrically operated
2) Adjustment screw for filling time

Dimensions in mm

A1	A2	A3	A6	B	C	D	E	H	I	J	L	T3	T6	V	W	Z
G 3/4	G 3/4	G 1/2	G 1/4	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5	20
G 1	G 1	G 1/2	G 1/4	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5	20

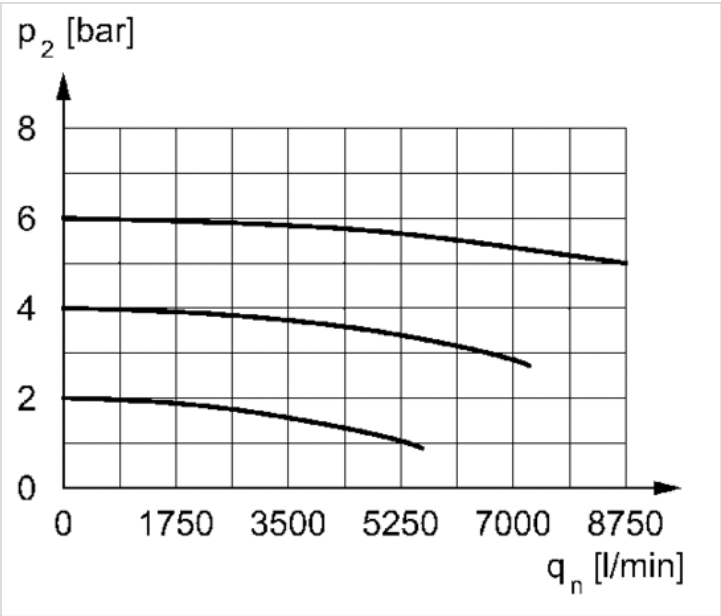
Diagrams

Secondary pressure while filling



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

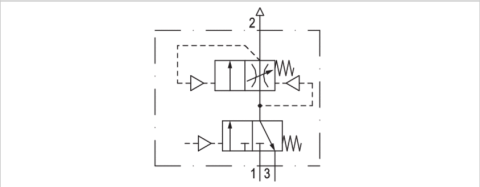
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Filling unit, pneumatically operated, Series NL6-SSU

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



Version	Poppet valve, Can be assembled into blocks
Pilot	Internal
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 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Max. particle size	5 µm
Weight	6.79 lbs

Technical data

Part No.	Port	Exhaust	Flow	Flow
			Qn 1▸2	Qn 2▸3
0821300992	G 3/4	G 1/2	8.89 Cv	3.96 Cv
0821300993	G 1	G 1/2	8.89 Cv	3.96 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

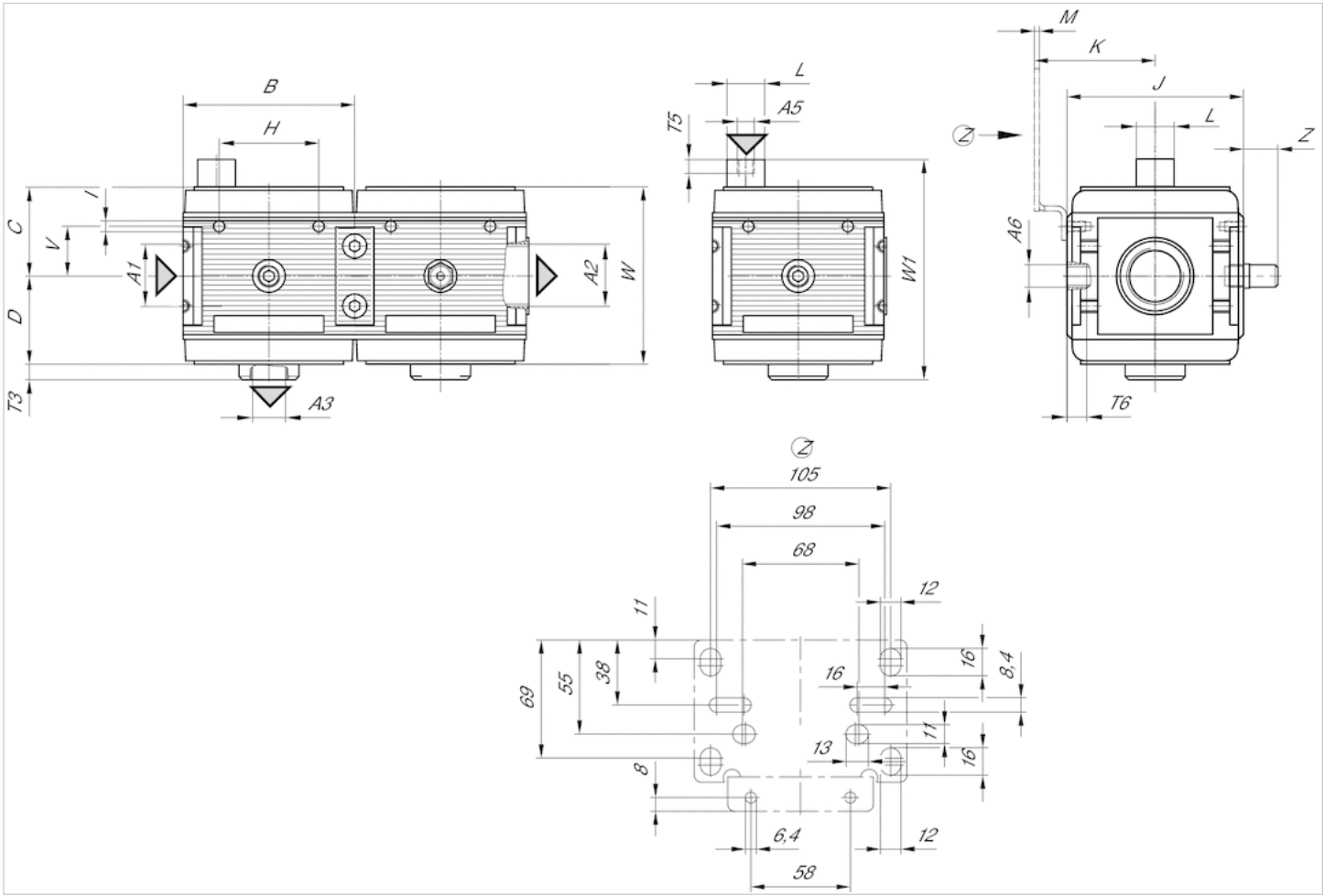
Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
Suitable for use in Ex zones 1, 2, 21, 22
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



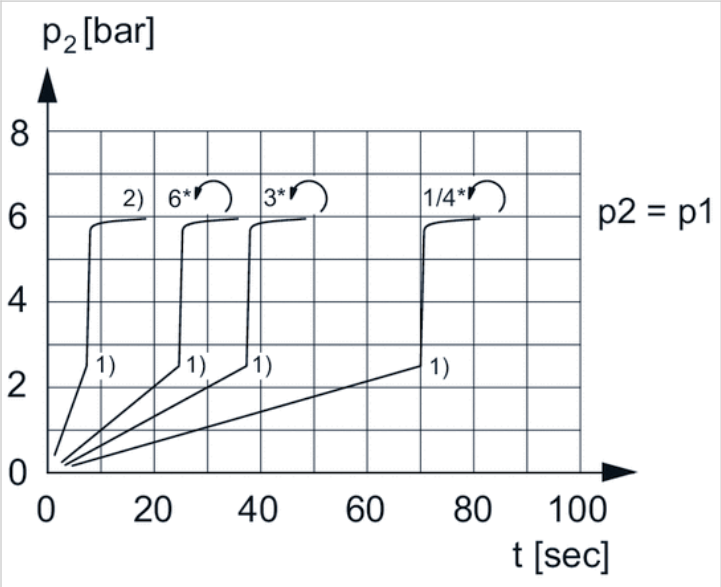
A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection

Dimensions in mm

A1	A2	A3	A5	A6	B	C	D	F	H	I	J	K	L	M	T5	T6	V	W	W1	Z
G 3/4	G 3/4	G 1/2	G 1/8	G 1/4	100	52	51	9.5	58	M6	103	70.5	22	3	18	7	29	103.5	128.5	20
G 1	G 1	G 1/2	G 1/8	G 1/4	100	52	51	9.5	58	M6	103	70.5	22	3	18	7	29	103.5	128.5	20

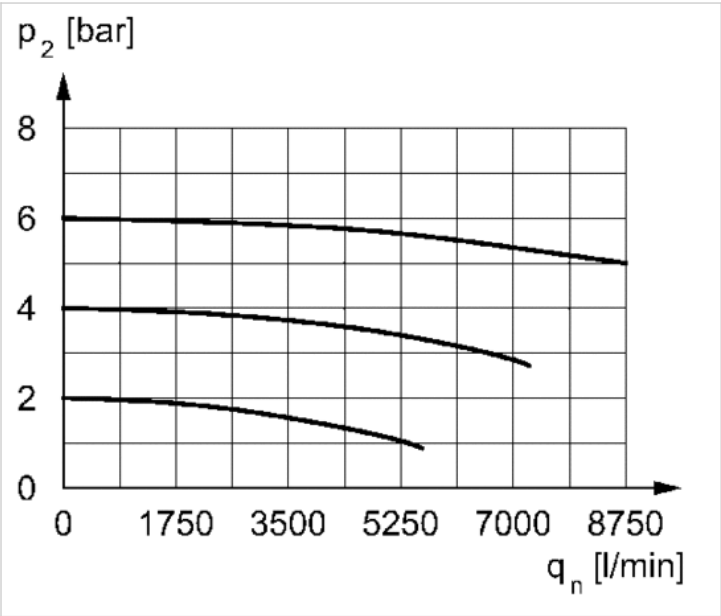
Diagrams

Secondary pressure while filling



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

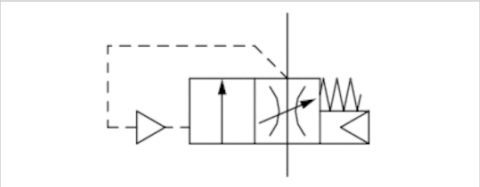
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

Filling valve, pneumatically operated, Series NL6-SSV

- Compressed air connection G 3/4, G 1
- 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 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Max. particle size	5 µm
Weight	3.26 lbs

Technical data

Part No.	Port	Flow
		Qn
0821300974	G 3/4	12.2 Cv
0821300967	G 1	12.2 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

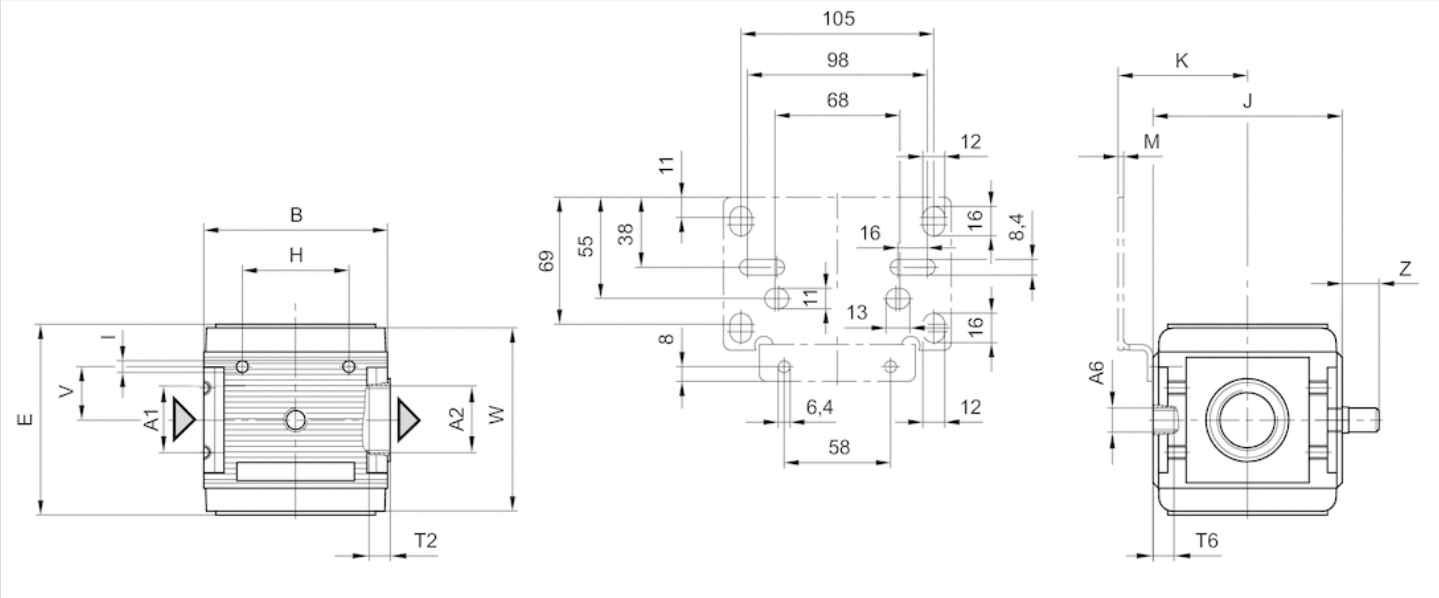
Builds up pressure slowly in the pneumatic systems, i.e. prevents a sudden pressure build-up during a restart after a mains pressure failure or avoids emergency OFF switching. This also avoids dangerous, jerky cylinder movements.
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
Do not position filling valves or filling units upstream of open consumers, such as nozzles, air barriers, air curtains, since these may prevent through connection of components.
Suitable for use in Ex zones 1, 2, 21, 22
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	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



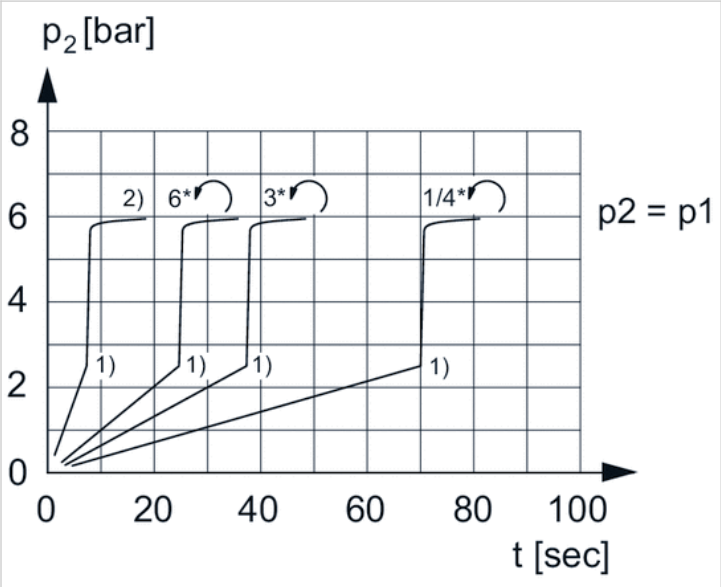
A1 = input
A2 = output
A6 = output

Dimensions in mm

A1	A2	A6	B	E	H	I	J	K	M	T2	T6	V	W	Z
G 3/4	G 3/4	G 1/4	100	103	58	M6	103	70.5	3	18	7	29	100	20
G 1	G 1	G 1/4	100	103	58	M6	103	70.5	3	18	7	29	100	20

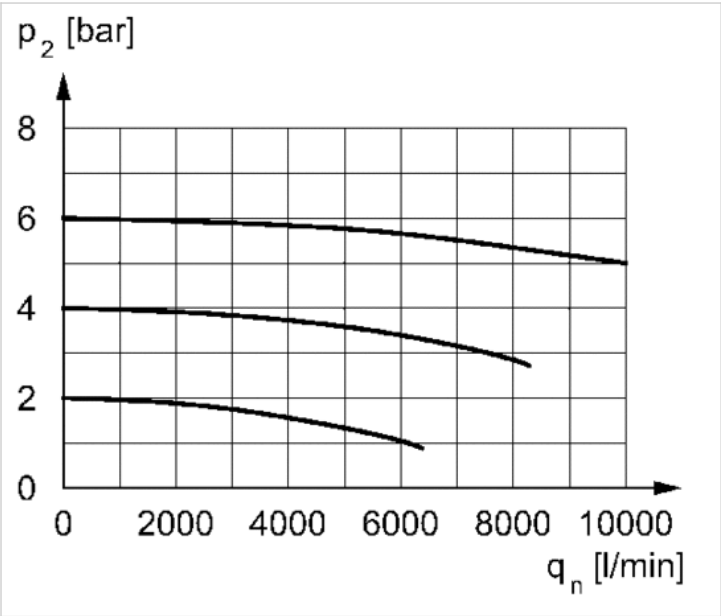
Diagrams

Secondary pressure while filling



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

Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

3/2-directional valve, electrically operated, Series NL6-SOV

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

Version	Poppet valve, Can be assembled into blocks
Parts	3/2-directional valve, electrically operated
Nominal flow 1 ▸ 2	12.7 Cv
Nominal flow 2 ▸ 3	3.96 Cv
Working pressure min./max.	37 ... 145 psi
Medium	Compressed air, Neutral gases
Medium temperature min./max.	14 ... 140 °F
Ambient temperature min./max.	14 ... 140 °F
Pilot	Internal
Sealing principle	Soft sealing
Max. particle size	5 µm
Protection class acc. to DIN EN 61140,with plug	IP65
Duty cycle	100 %
Weight	See table below

Technical data

Part No.		Compressed air connection input	Compressed air connection output	Exhaust
0821300973		G 3/4	G 3/4	G 1/2
0821300972		G 3/4	G 3/4	G 1/2
0821300971		G 3/4	G 3/4	G 1/2
0821300990		G 3/4	G 3/4	G 1/2
0821300966		G 1	G 1	G 1/2
0821300965		G 1	G 1	G 1/2
0821300964		G 1	G 1	G 1/2
0821300991		G 1	G 1	G 1/2

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
0821300973	-	-	-
0821300972	24 V	-	-
0821300971	-	230 V	230 V
0821300990	-	-	-
0821300966	-	-	-
0821300965	24 V	-	-
0821300964	-	230 V	230 V
0821300991	-	-	-

Part No.	Power consumption	Holding power	Switch-on power	Manual override
	DC	AC 50 Hz	AC 50 Hz	
0821300973	-	-	-	without
0821300972	4.8 W	-	-	-
0821300971	-	8.5 VA	11.8 VA	-
0821300990	-	-	-	with detent
0821300966	-	-	-	without
0821300965	4.8 W	-	-	-
0821300964	-	8.5 VA	11.8 VA	-
0821300991	-	-	-	with detent

Part No.	Electrical connection	basic valve with electrical connector
	Pilot valve	
0821300973	-	pilot valve without coil
0821300972	Plug, ISO 6952, form B	-
0821300971	Plug, ISO 6952, form B	-
0821300990	-	pilot valve without coil
0821300966	-	pilot valve without coil
0821300965	Plug, ISO 6952, form B	-
0821300964	Plug, ISO 6952, form B	-
0821300991	-	pilot valve without coil

Part No.	Reverse polarity protection	Weight
0821300973	-	3.13 lbs
0821300972	Protected against polarity reversal	3.28 lbs
0821300971	Protected against polarity reversal	3.28 lbs
0821300990	-	3.13 lbs
0821300966	-	3.13 lbs
0821300965	Protected against polarity reversal	3.28 lbs
0821300964	Protected against polarity reversal	3.28 lbs
0821300991	-	3.13 lbs

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

Technical information

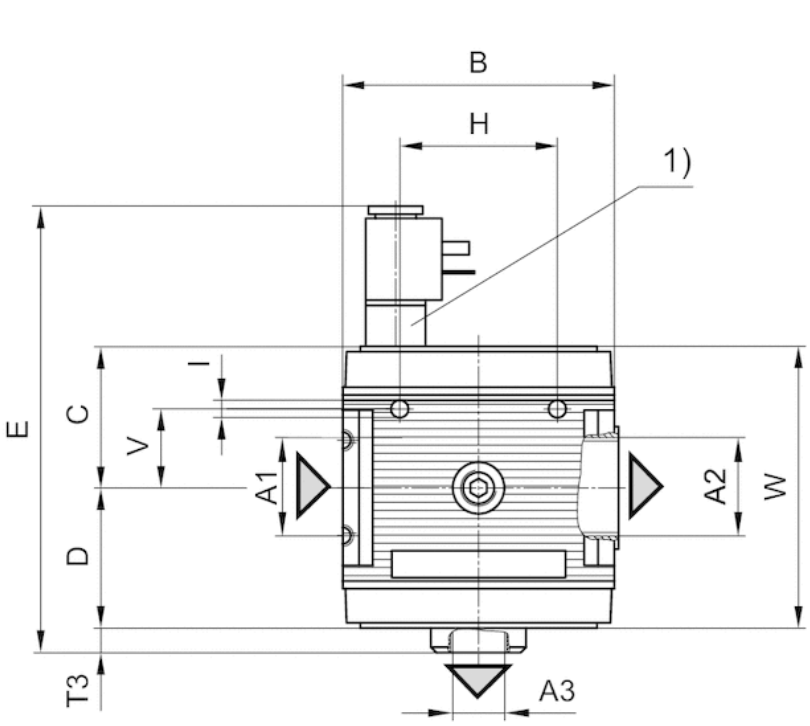
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
ATEX optional: The ATEX ID depends on the selected ATEX coil.
The connections on the front and back are not connected to the main air flow. No pressure gauge may be connected here.
A change 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.

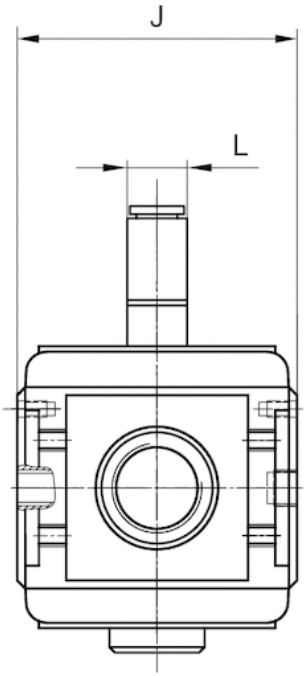
Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene styrene

Dimensions

Dimensions





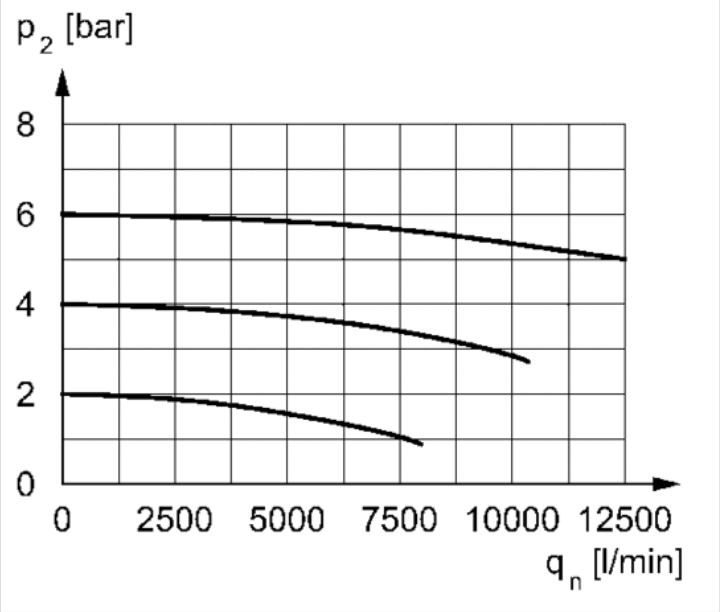
A1 = input
A2 = output
A3 = ventilation port
1) electrically operated

Dimensions in mm

A1	A2	A3	B	C	D	E	H	I	J	L	T3	T5	V	W
G 3/4	G 3/4	G 1/2	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5
G 1	G 1	G 1/2	100	52	51.5	164.5	58	M6	103	22	9.5	7	29	103.5

Diagrams

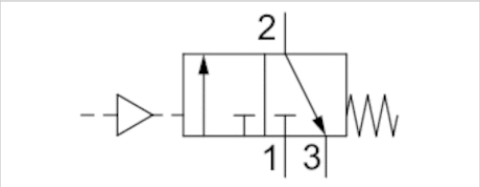
Flow rate characteristic



p2 = secondary pressure
qn = nominal flow

3/2-directional valve, pneumatically operated, Series NL6-SOV

- Compressed air connection G 3/4, G 1
- 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 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Max. particle size	5 µm
Weight	3.17 lbs

Technical data

Part No.	Port	Exhaust	Flow	Flow
			Qn 1▸2	Qn 2▸3
0821300988	G 3/4	G 1/2	12.7 Cv	3.96 Cv
0821300989	G 1	G 1/2	12.7 Cv	3.96 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

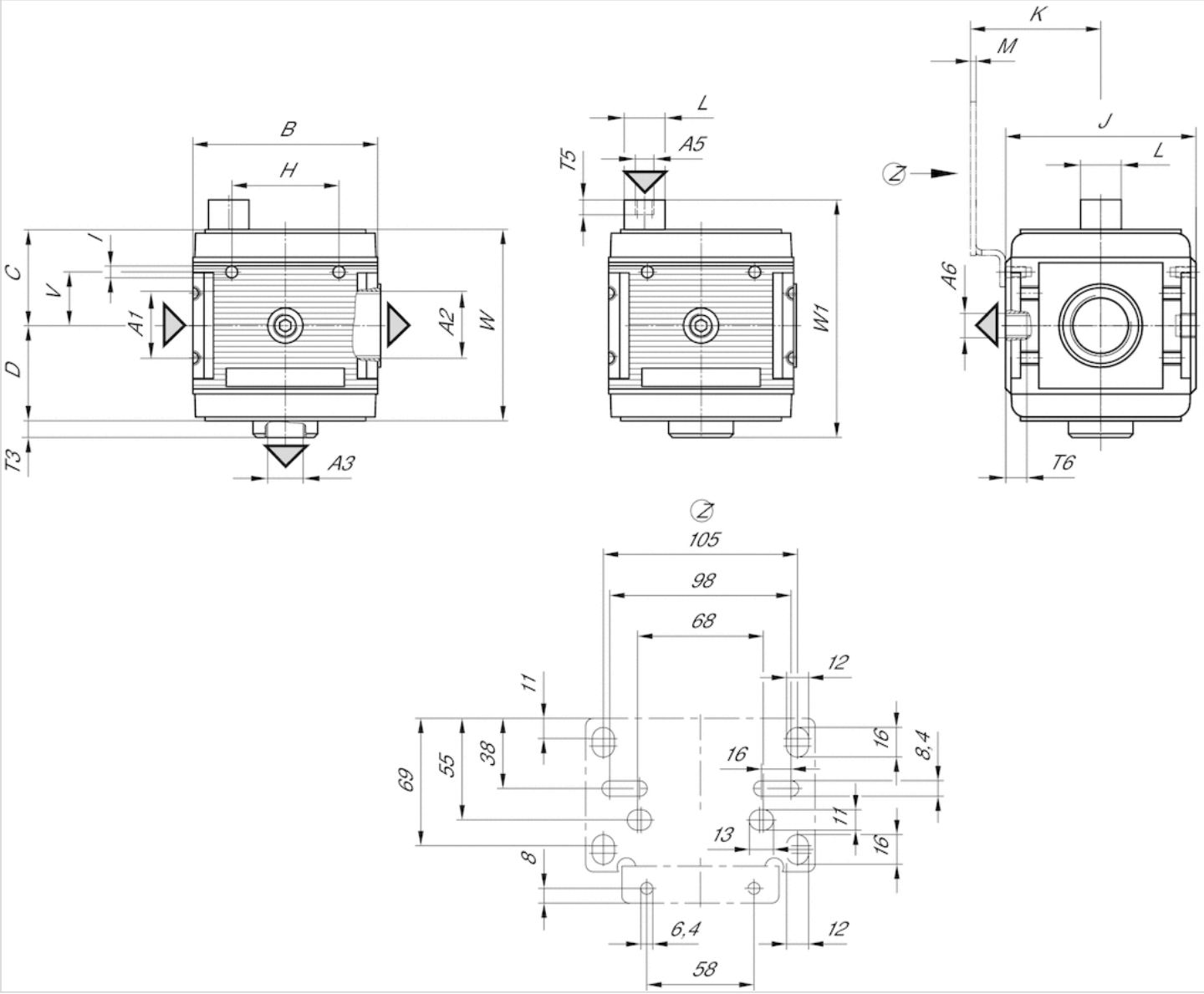
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
Suitable for use in Ex zones 1, 2, 21, 22
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

Technical information

Material	
Housing	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber

Dimensions

Dimensions



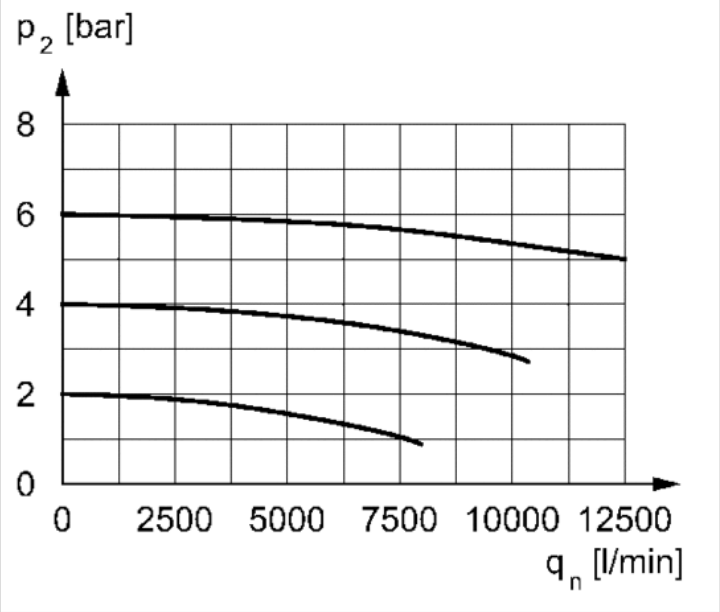
A1 = input
A2 = output
A3 = ventilation port
A5 = control pressure connection
A6 = output

Dimensions in mm

A1	A2	A3	A5	A6	B	C	D	F	H	I	J	K	L	M	T5	T6	V	W1
G 3/4	G 3/4	G 1/2	G 1/8	G 1/4	100	52	50.5	9.5	58	M6	103	70.5	22	3	18	7	29	128.5
G 1	G 1	G 1/2	G 1/8	G 1/4	100	52	50.5	9.5	58	M6	103	70.5	22	3	18	7	29	128.5

Diagrams

Flow rate characteristic

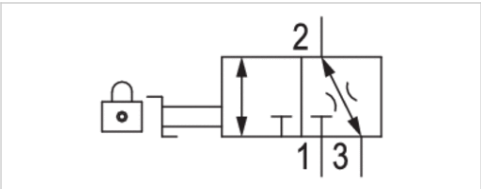


p2 = secondary pressure
qn = nominal flow

3/2-shut-off valve, mechanically operated, Series NL6-BAV

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

Version	Ball valve
Activation	Mechanical
Lock type	lockable
Actuating element	rotary switch
Sealing principle	metal/metal sealing
Certificates	suitable for ATEX
Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Weight	4.03 lbs



Technical data

Part No.	Version	Compressed air connection	Compressed air connection
		Input	Output
0821300976	3/2	G 3/4	G 3/4
0821300977	3/2	G 1	G 1

Part No.	Compressed air connection	Flow	Flow	Lock type
	Exhaust	Qn 1 ▸ 2	Qn 2▸3	
0821300976	G 1/2	25.41 Cv	0.112 Cv	for padlocks
0821300977	G 1/2	25.41 Cv	0.112 Cv	for padlocks

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

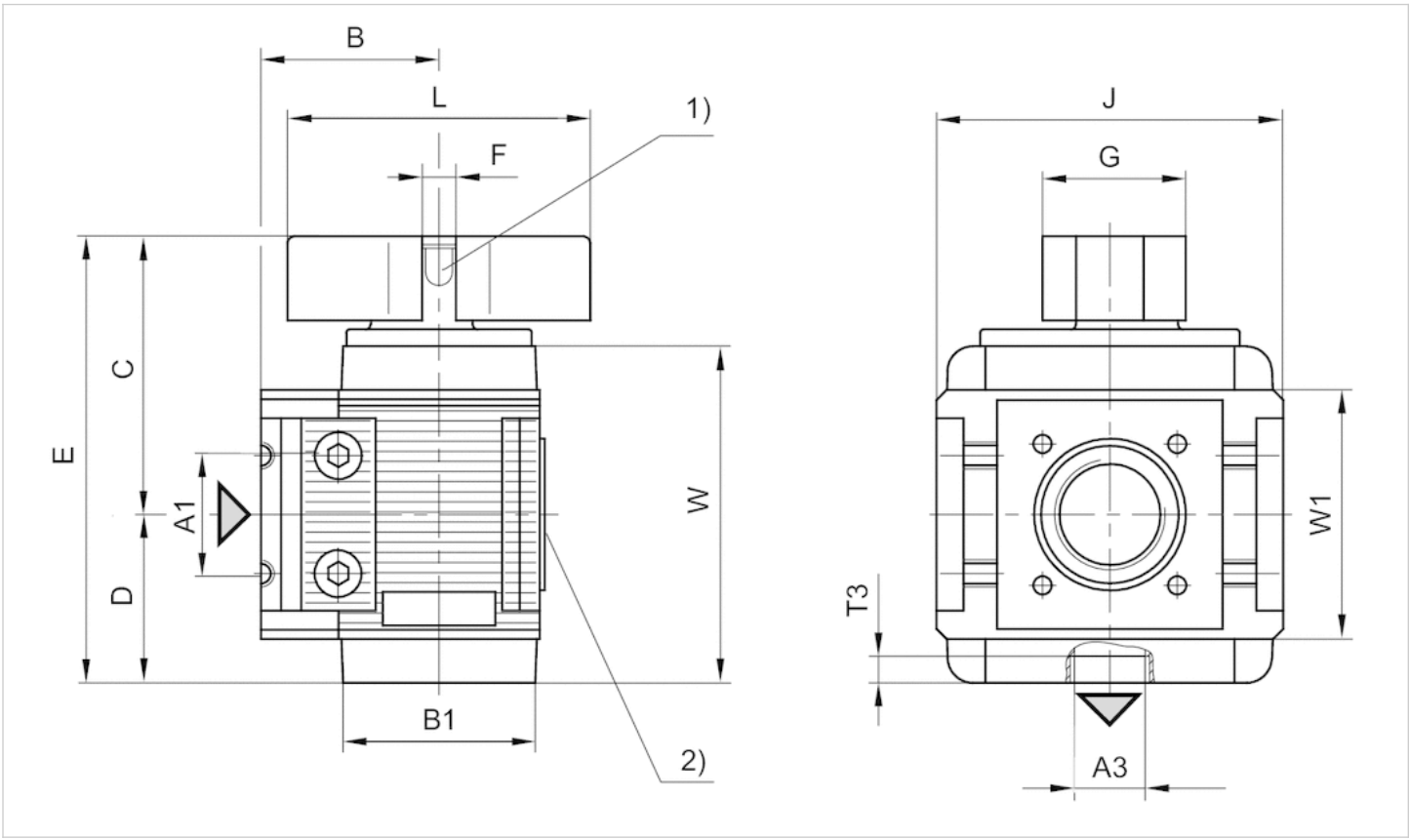
The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 5.4 °F .
Suitable for use in Ex zones 1, 2, 21, 22
Subbase (G3/4 = 1827009590, G1 = 1827009591) with block assembly kit (1827009593) is required to connect with the piping on the right.
A change in the 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	Die-cast aluminum
Front plate	Acrylonitrile butadiene styrene
Seals	Acrylonitrile butadiene rubber
Actuating element	Polyoxymethylene

Dimensions

Dimensions



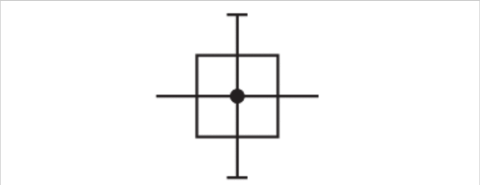
A1 = input
A2 = output
A3 = ventilation port
1) lockable with padlock
2) no connection thread

Dimensions in mm

A3	B	B1	C	D	E	F	G	J	L	T3	W	W1
G 1/2	53	60	82.5	50	132.5	8	42.5	103	90	14.5	100	74

Distributor, Series NL6-DIL

- G 1
- Distributor 2x
- Narrow distributor
- suitable for ATEX



Version	Narrow distributor, 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 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air, Neutral gases
Weight	2.09 lbs

Technical data

Part No.	Port	Nominal flow	Nominal flow	Nominal flow
		Qn 1▸2	Qn 1▸3	Qn 1▸5
0821300978	G 1	25.41 Cv	10.16 Cv	10.16 Cv

Nominal flow Qn with secondary pressure p2 = 87 psi at Δp = 14.5 psi, Subbase G1, material number 1827009591, must be ordered separately., Block assembly with block assembly kit, material number 1827009593, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

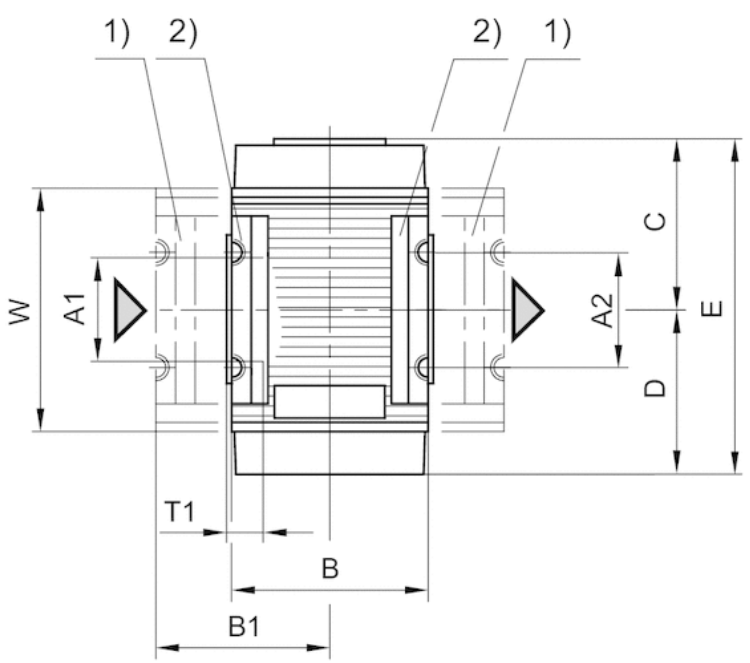
Suitable for direct mounting of a PE1 and PM1 series pressure sensor (flange version)
Suitable for use in Ex zones 1, 2, 21, 22
A change in the flow direction (from air supply on the left to air supply on the right) occurs by rotating installation by 180° about the vertical axis. Please see the operating instructions for further details.

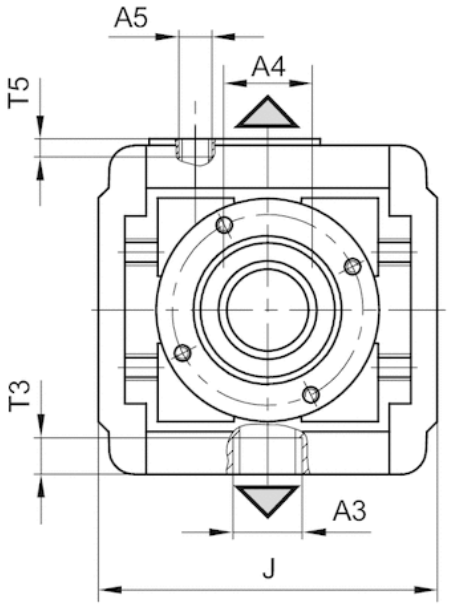
Technical information

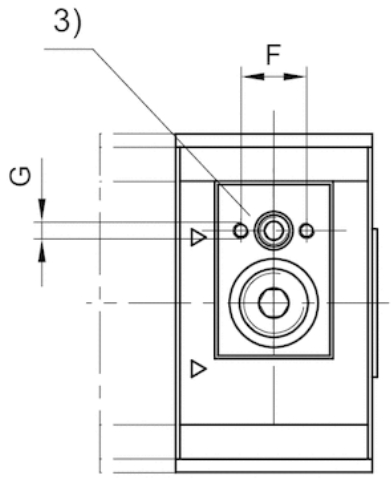
Material	
Housing	Die-cast aluminum

Dimensions

Dimensions







A1 = input
A2 = output
A3 = output
A4 = output
1) Subbase G1, material number 1827009591, must be ordered separately.
2) No connection thread
3) hole pattern for mechanical vacuum/pressure switch
Block assembly with block assembly kit, material number 1827009593

Dimensions in mm

A1	A2	A3	A4	A5	B	B1	C	D	E	F	G	J	T1	T3	T5	W
G 1	G 1	G 1/2	G 1/2	G 1/8	60	53	52	50	102	20	M5	103	18	14.5	8	74

Reservoir, Series NL4-CLS, NL6-CLS

- For filter - filter pressure regulator
- Material Polycarbonate, Die cast zinc

Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air
Filter reservoir volume	1.69 fl.oz.
Weight	See table below

Technical data

Part No.	Condensate drain	Reservoir	Weight
1827009337	semi-automatic, open without pressure	Polycarbonate	0.375 lbs
1827009343	semi-automatic, open without pressure	Die cast zinc, with window	1.21 lbs
1827009338	fully automatic, open without pressure	Polycarbonate	0.441 lbs
1827009344	fully automatic, open without pressure	Die cast zinc, with window	1.23 lbs

Part No.	Fig.
1827009337	Fig. 1
1827009343	Fig. 2
1827009338	Fig. 3
1827009344	Fig. 4

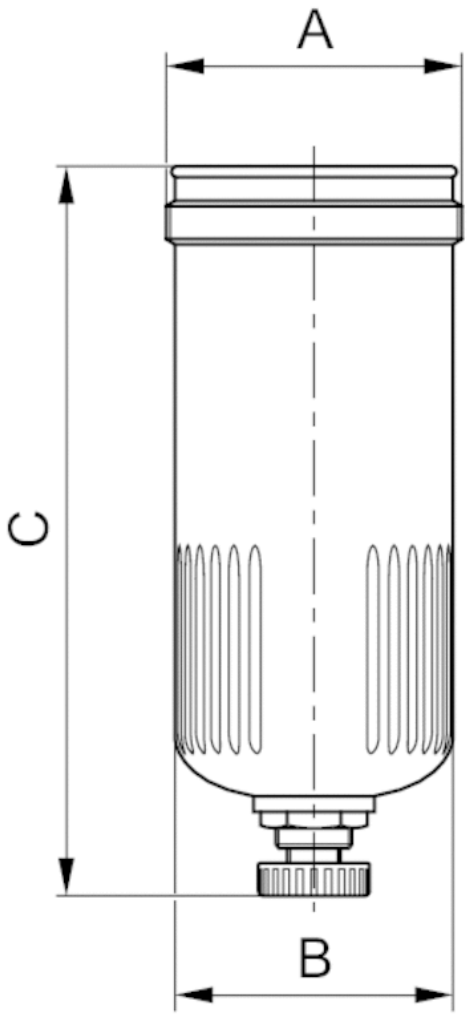
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

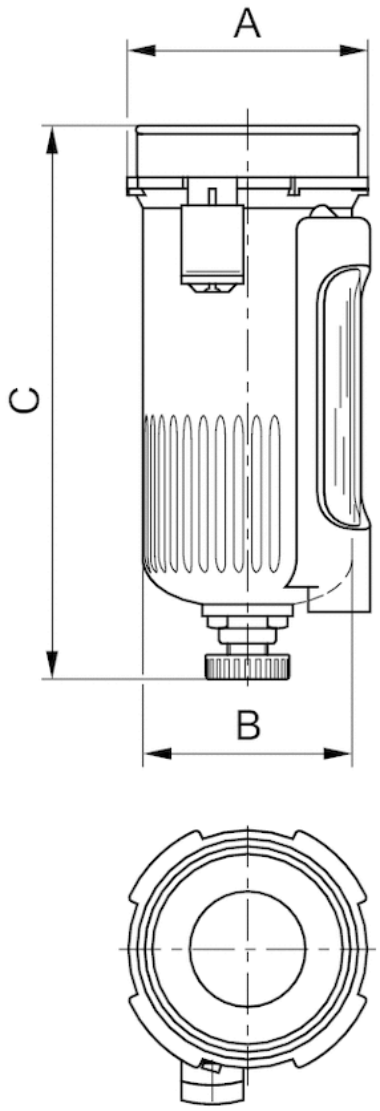
Material	
Reservoir	Polycarbonate, Die cast zinc
Seal	Acrylonitrile butadiene rubber

Dimensions

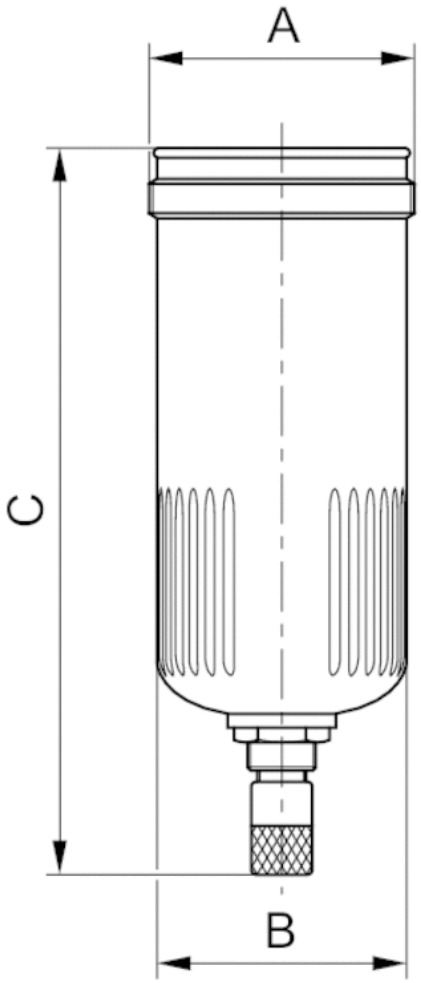
Dimensions Fig. 1



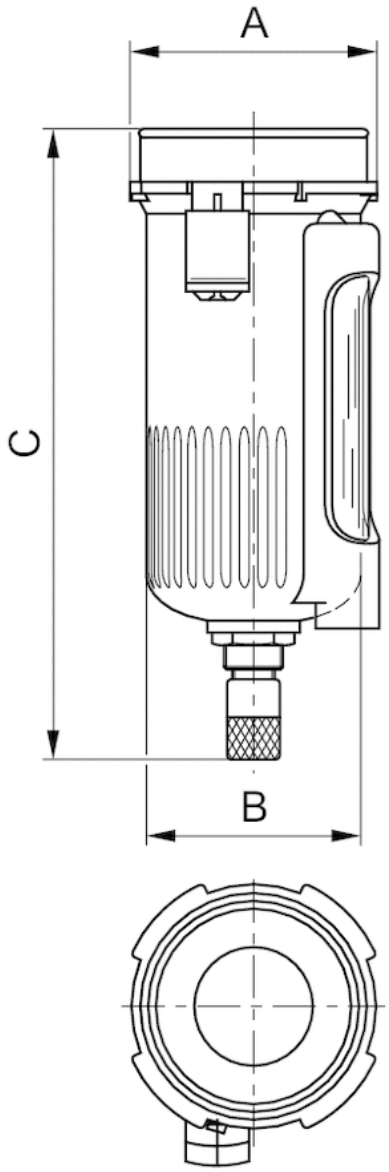
Dimensions Fig. 2



Dimensions Fig. 3



Dimensions Fig. 4



Dimensions in mm

Part No.	A	B	C
1827009337	M56x1,5	53.5	132
1827009343	62.5	53.5	132
1827009338	M56x1,5	53.5	150
1827009344	62.5	53.5	150

Reservoir, Series NL6-CLC

- for prefilters and microfilters
- Material Polycarbonate, Die cast zinc

Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	22 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air
Filter reservoir volume	5.07 fl.oz.
Weight	2.42 lbs

Technical data

Part No.	Condensate drain	Reservoir	Fig.
1827009604	fully automatic, open without pressure	Polycarbonate	Fig. 1
1827009605	fully automatic, open without pressure	Die cast zinc	Fig. 2

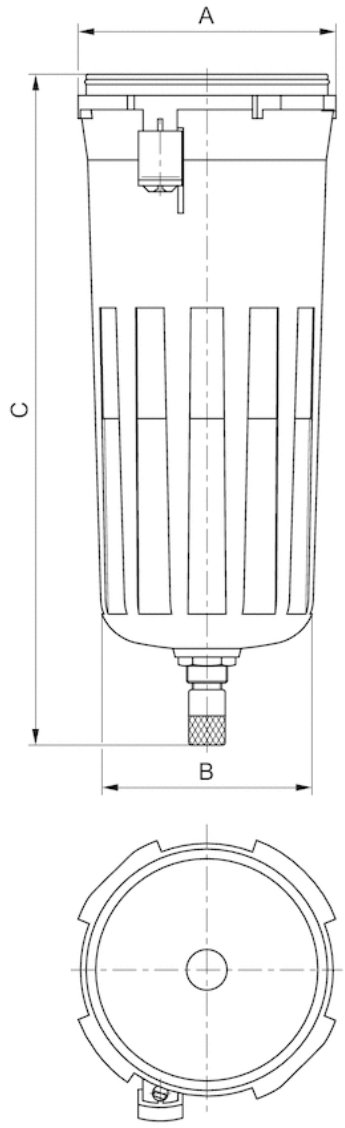
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

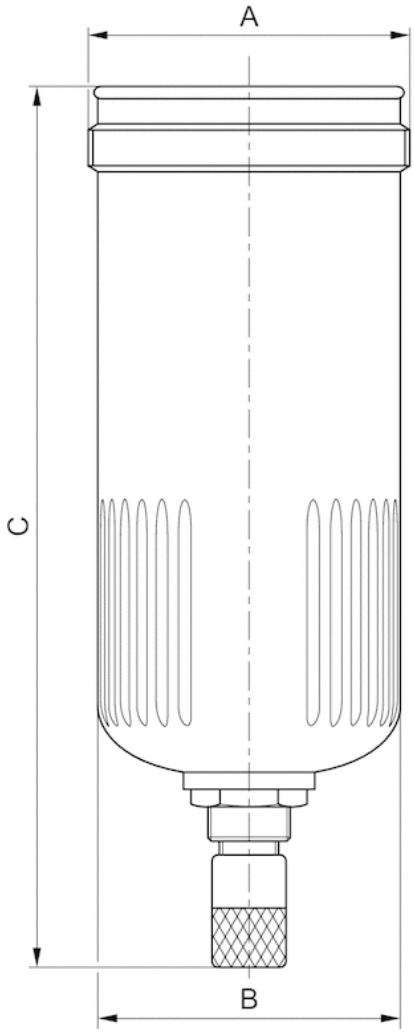
Material	
Reservoir	Polycarbonate, Die cast zinc
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions Fig. 1



Dimensions Fig. 2



Dimensions

Part No.	A	B	C
1827009604	94.5	75.4	233.5
1827009605	94.5	70.5	333.5

Reservoir, Series NL6-CLA

- for active carbon filter
- Material Die cast zinc

Version	Reservoir
Version	Metal reservoir without window
Certificates	suitable for ATEX
Working pressure min./max.	232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Medium	Compressed air
Filter reservoir volume	4.4 fl.oz.
Weight	See table below

Technical data

Part No.	Weight
1827009610	1.98 lbs
1827009611	2.42 lbs

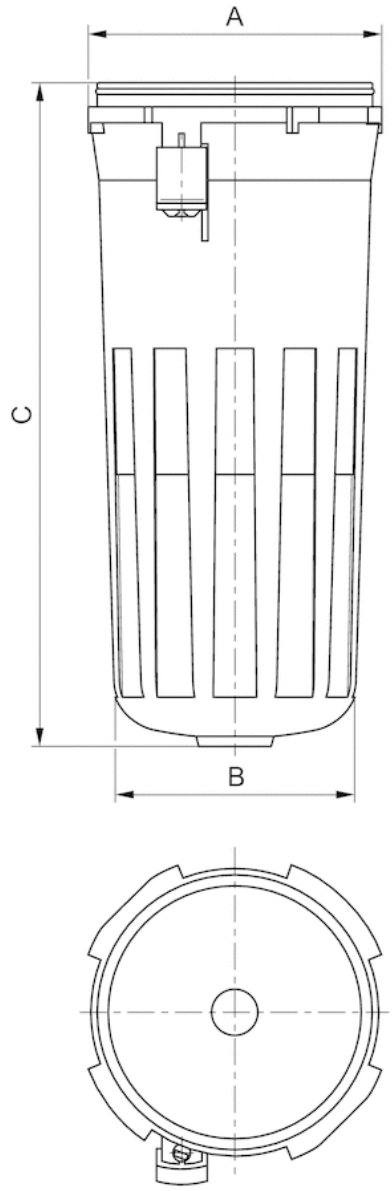
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Reservoir	Die cast zinc
Seal	Acrylonitrile butadiene rubber

Dimensions

Dimensions



Dimensions in mm

Part No.	Compressed air connection	A	B	C
1827009610	G 3/4	94.5	75.4	200
1827009611	G 1	94.5	70.5	300

Reservoir, Series NL4-CBS, NL4-CLA, NL6-CBS

- for active carbon filter and lubricator
- Material Polycarbonate, Die cast zinc

Version	Reservoir
Certificates	suitable for ATEX
Working pressure min./max.	232 psi
Ambient temperature min./max.	14 ... 140 °F
Medium temperature min./max.	14 ... 140 °F
Lubricator reservoir volume	4.23 fl.oz.
Weight	See table below

Technical data

Part No.	Electrical level indicator	Reservoir	Weight	Fig.
R412003757	with internal query	Polycarbonate	0.397 lbs	Fig. 1
1827009336	-	Polycarbonate	0.331 lbs	Fig. 2
1827009342	-	Die cast zinc, with window	1.21 lbs	Fig. 3

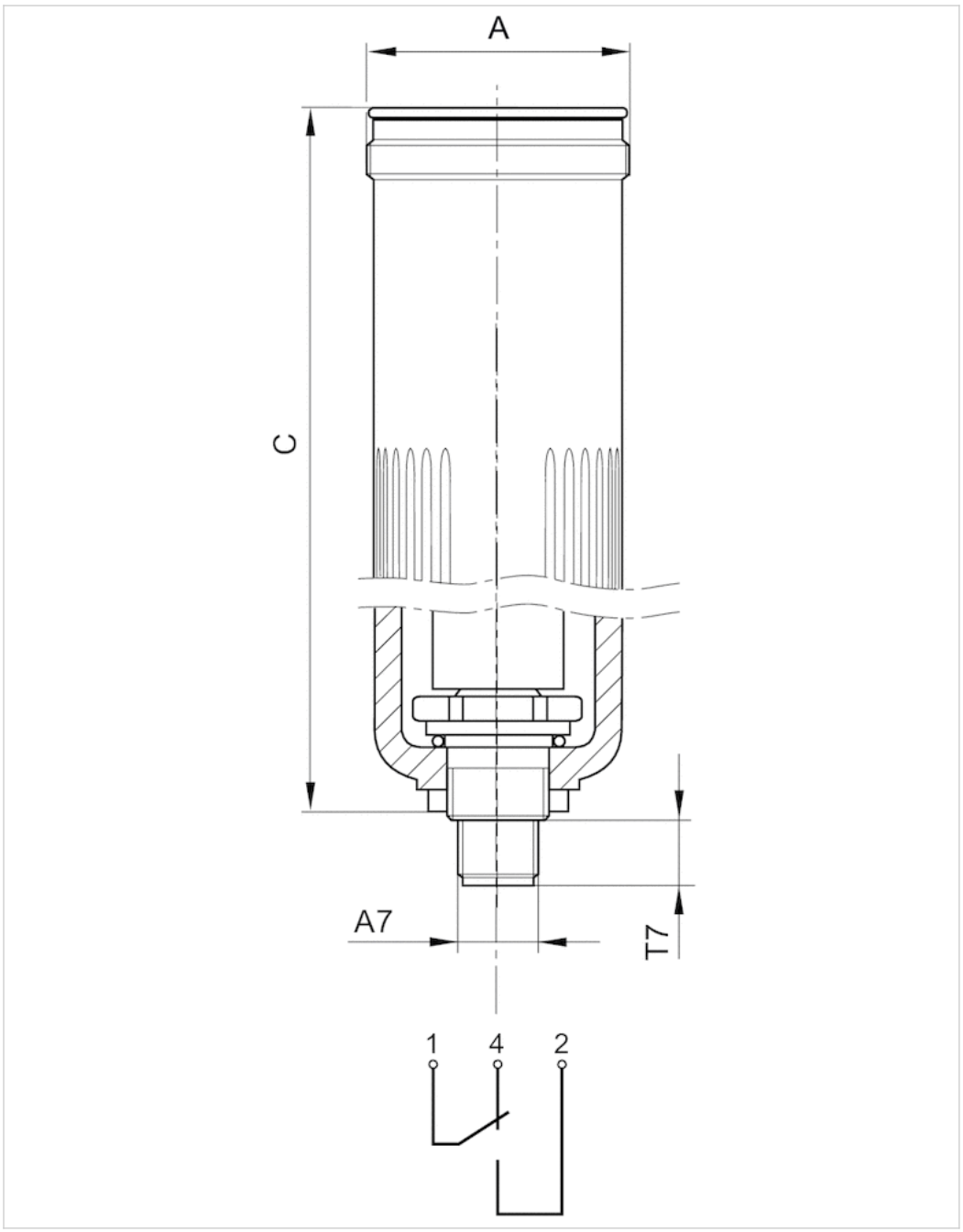
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

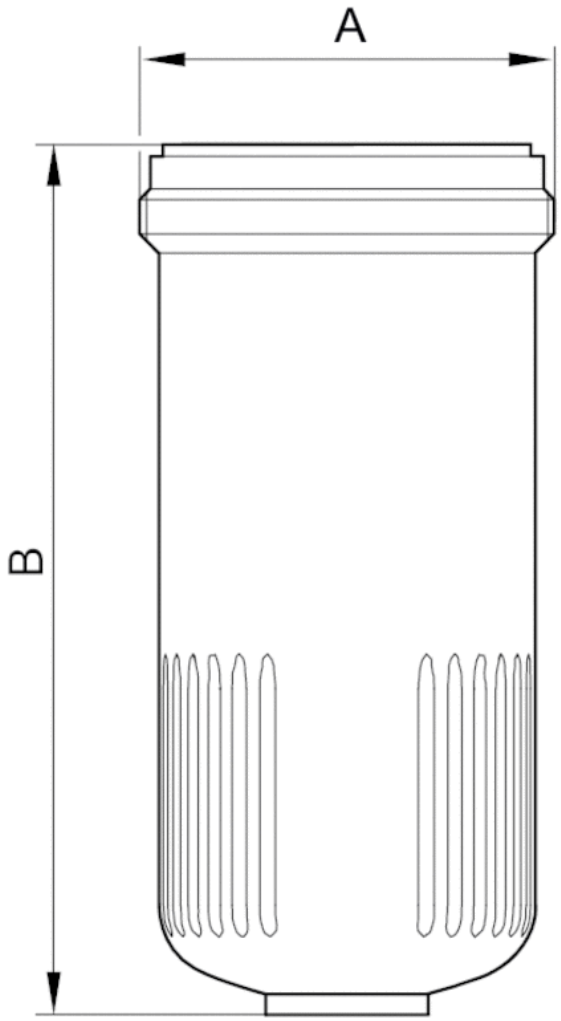
Material	
Reservoir	Polycarbonate, Die cast zinc
Seal	Acrylonitrile butadiene rubber

Dimensions

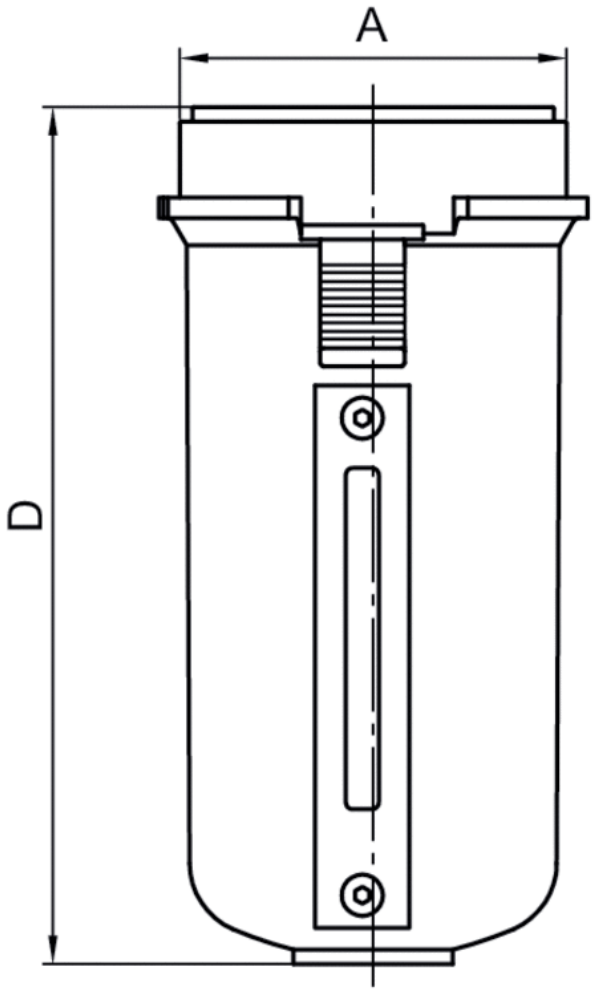
Dimensions Fig. 1



Dimensions Fig. 2



Dimensions Fig. 3



Dimensions in mm

Part No.	A	A7	B	C	D	T7
R412003757	M56x1.5	M12x1	-	129.5	-	12
1827009336	M56x1.5	-	117.5	129.5	-	-
1827009342	Ø53.1	-	-	119	119	-

Protective guard

- NL4, NL6
- Filter, Lubricator

Weight 0.309 lbs

Technical data

Part No.	Type
1820507001	NL4

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

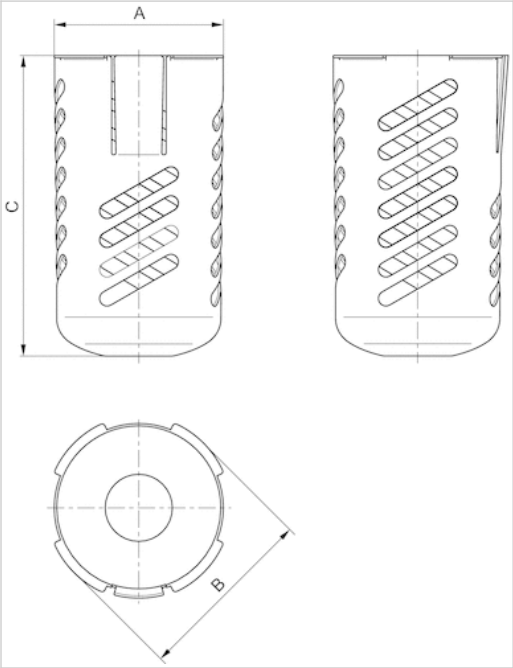
Technical information

Can be retrofitted for PC reservoir

Technical information

Material	
Material	Steel, black oxidized

Dimensions



Dimensions

Part No.	Type	A	B	C
1820507001	NL4	57,8	62,6	103

Mounting plate, Series NL6

- for NL6

Ambient temperature min./max.	-40 ... 140 °F
Weight	0.606 lbs

Technical data

Part No.
1821336017

Scope of delivery incl. mounting screws

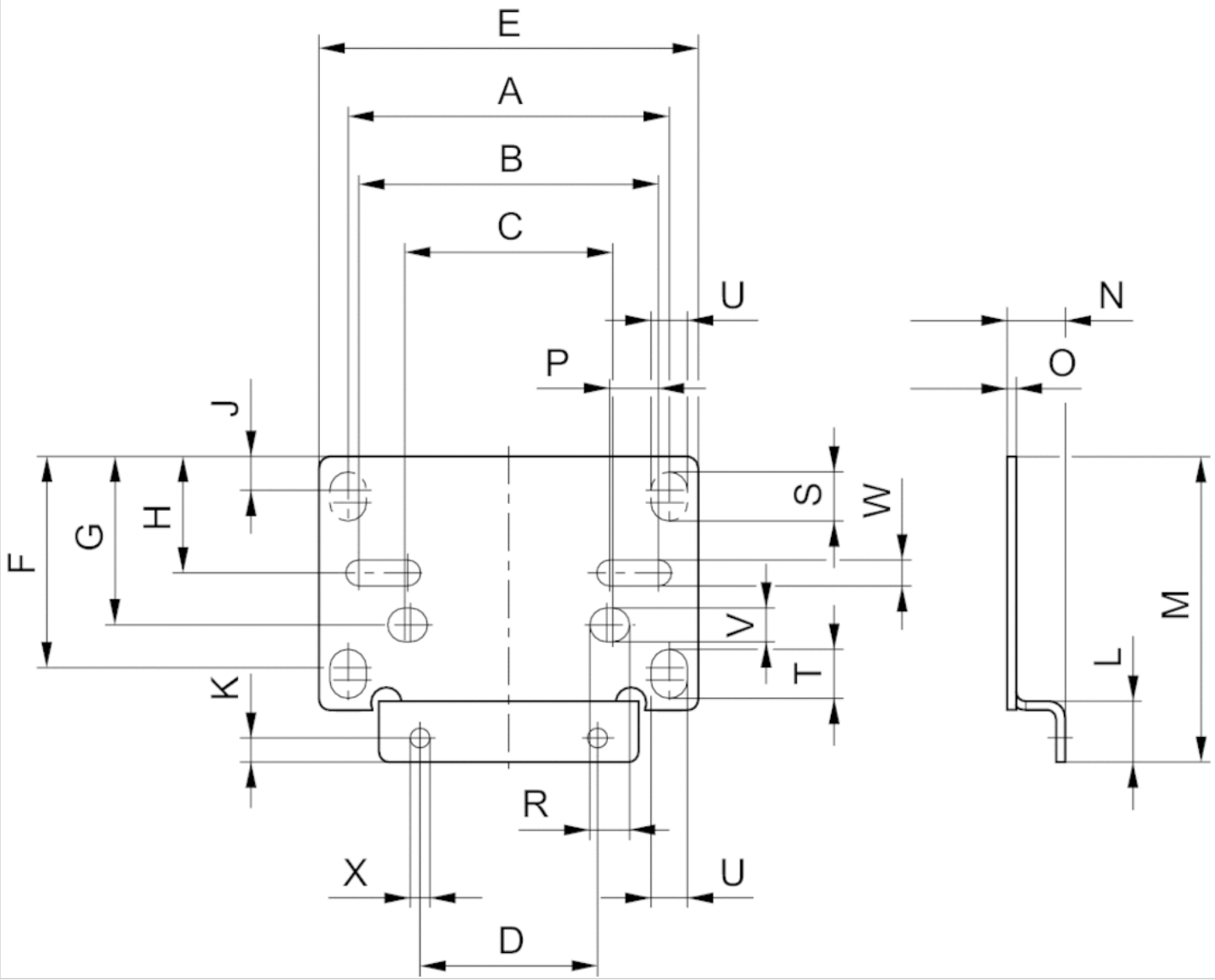
Technical information

suitable for individual units

Technical information

Material	
Housing	Steel, galvanized

Dimensions



Dimensions

Part No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	W	X
1821336017	105	98	68	58	124	69	55	38	11	8	20	100	19	3	16	13	16	16	12	11	8.4	6.4

Block assembly kit

- NL6

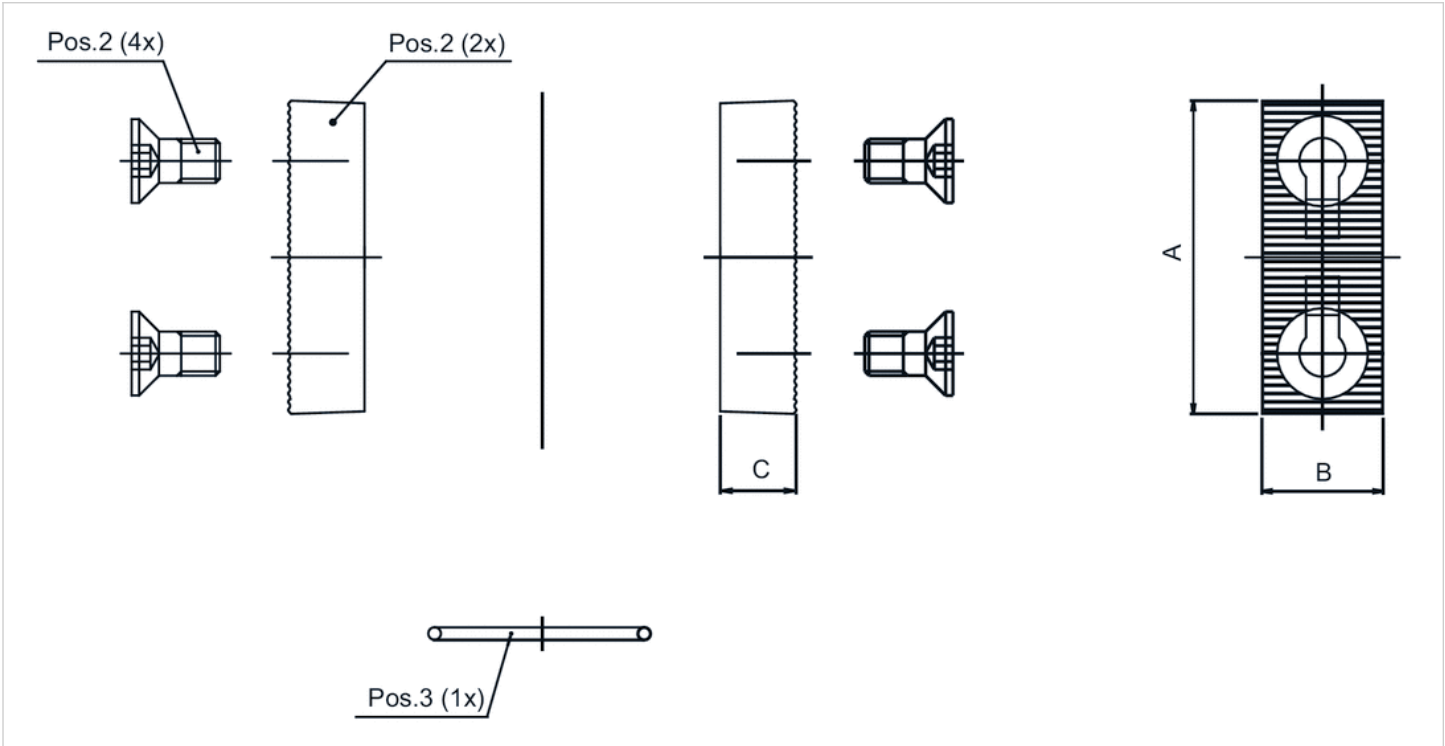
Weight 0.044 lbs

Technical data

Part No.
1827009593

Scope of delivery: 2 clamp mountings, 4 screws ISO 10642 M8x16-8.8, 1 O-ring
Suitable for use in Ex zones 1, 2, 21, 22

Dimensions



1) clamp mounting 2) screw 3) O-ring

Dimensions

Part No.	A	B	C
1827009593	56.9	22	13.8

Stop plate with connection thread

- G 3/4, G 1
- NL6

Working pressure min./max.	0 ... 232 psi
Ambient temperature min./max.	14 ... 140 °F

Technical data

Part No.	Type	Port G
1827009590	NL6	G 3/4
1827009591	NL6	G 1

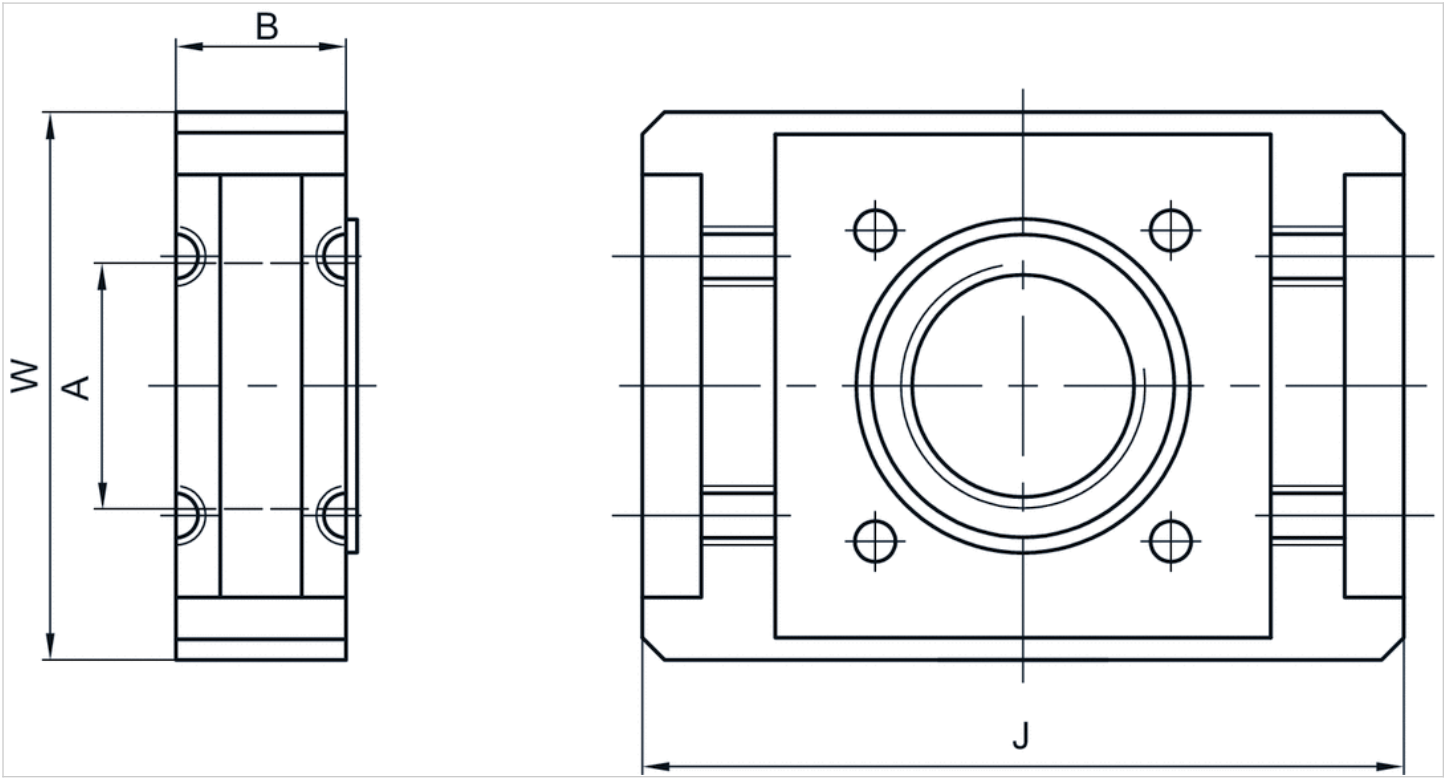
Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Material	Die cast zinc

Dimensions

Dimensions



Pressure gauge, Series PG1-SNL

- For panel installation
- Background color Black
- Scale color Green, White
- Viewing window Polystyrene
- Units bar
- Units psi

Version	Bourdon tube pressure gauge
Mounting	with U-clip
Seal	Axial
Standardization	EN 837-1
Class	1,6
Ambient temperature min./max.	-40 ... 140 °F
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	Green
Secondary scale unit (inside)	psi
Secondary scale color (inside)	White
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	Weight
1827231032	G 1/4	1.97 inch	0 ... 2	0 ... 2.5	0 ... 36 psi	0.1	0.326 lbs
1827231036	G 1/4	2.48 inch	0 ... 2	0 ... 2.5	0 ... 36 psi	0.1	0.419 lbs
1827231033	G 1/4	1.97 inch	0 ... 4	0 ... 6	0 ... 87 psi	0.2	0.326 lbs
1827231037	G 1/4	2.48 inch	0 ... 4	0 ... 6	0 ... 87 psi	0.2	0.419 lbs
1827231034	G 1/4	1.97 inch	0 ... 8	0 ... 10	0 ... 145 psi	0.5	0.326 lbs
1827231038	G 1/4	2.48 inch	0 ... 8	0 ... 10	0 ... 145 psi	0.5	0.419 lbs
1827231035	G 1/4	1.97 inch	0 ... 12	0 ... 16	0 ... 232 psi	0.5	0.326 lbs
1827231039	G 1/4	2.48 inch	0 ... 12	0 ... 16	0 ... 232 psi	0.5	0.419 lbs

Technical information

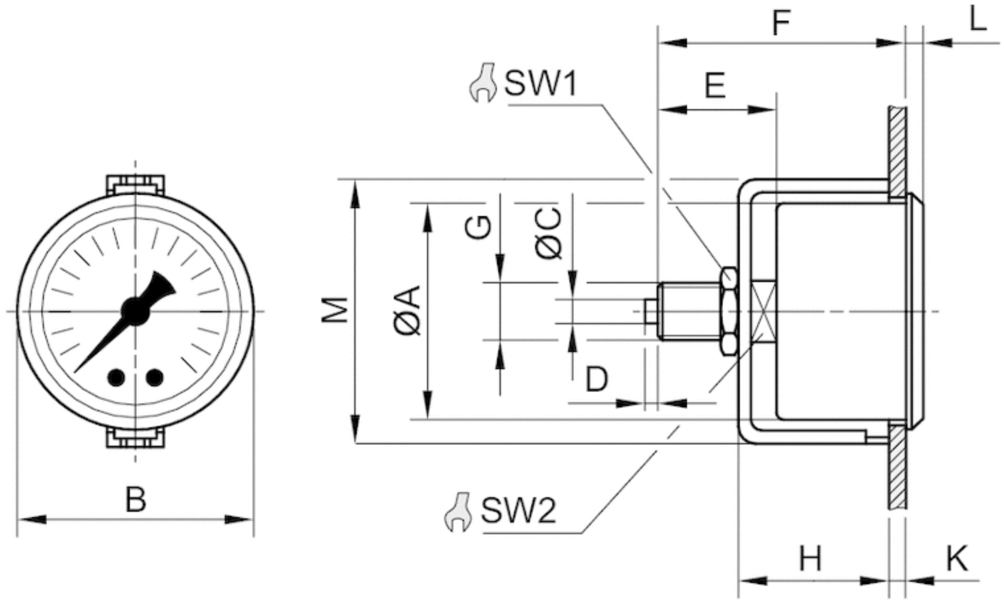
To set the operating range, the cover (inspection glass) must be removed. To do this, carefully lift the inspection glass by inserting a pointed or flat object in the slot provided for this purpose on the housing circumference.
Order axial seal separately

Technical information

Material	
Housing	Steel
Thread	Brass
Front ring	Steel, chrome-plated
Viewing window	Polystyrene

Dimensions

Dimensions



Dimensions in mm

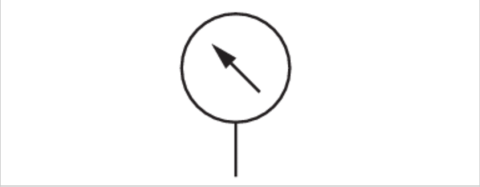
Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F	H	K	L	M	SW1
G 1/4	1.97 inch	50	54	5	3	29.5	51.5	34.5	3	4.5	61	17
G 1/4	2.48 inch	62	67	5	3	27	53	36.3	4.2	5.5	75	17
G 1/4	1.97 inch	50	54	5	3	29.5	51.5	34.5	3	4.5	61	17
G 1/4	2.48 inch	62	67	5	3	27	53	36.3	4.2	5.5	75	17
G 1/4	1.97 inch	50	54	5	3	29.5	51.5	34.5	3	4.5	61	17
G 1/4	2.48 inch	62	67	5	3	27	53	36.3	4.2	5.5	75	17
G 1/4	1.97 inch	50	54	5	3	29.5	51.5	34.5	3	4.5	61	17
G 1/4	2.48 inch	62	67	5	3	27	53	36.3	4.2	5.5	75	17

SW2
14
14
14
14
14

SW2
14
14
14

Pressure gauge, Series PG1-SNL

- Back port
- Background color Black
- Scale color Green, White
- Viewing window Polystyrene
- Units bar
- Units psi



Version	Bourdon tube pressure gauge
Seal	Axial
Standardization	EN 837-1
Class	1,6
Ambient temperature min./max.	-40 ... 140 °F
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	Green
Secondary scale unit (inside)	psi
Secondary scale color (inside)	White
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	Weight
1827231057	G 1/4	1.57 inch	-0.8 ... 0	-1 ... 0	-14 ... 0 psi	0.1	0.132 lbs
1827231047	G 1/4	1.57 inch	0 ... 10	0 ... 16	0 ... 232 psi	0.5	0.132 lbs
1827231059	G 1/4	1.57 inch	0 ... 4	0 ... 6	0 ... 87 psi	0.2	0.132 lbs
1827231060	G 1/4	1.57 inch	0 ... 8	0 ... 10	0 ... 145 psi	0.5	0.132 lbs
1827231054	G 1/4	1.97 inch	-0.8 ... 0	-1 ... 0	-14 ... 0 psi	0.1	0.198 lbs
1827231012	G 1/4	1.97 inch	0 ... 2	0 ... 2.5	0 ... 36 psi	0.1	0.198 lbs
1827231016	G 1/4	1.97 inch	0 ... 4	0 ... 6	0 ... 87 psi	0.2	0.198 lbs
1827231015	G 1/4	1.97 inch	0 ... 8	0 ... 10	0 ... 145 psi	0.5	0.198 lbs
1827231010	G 1/4	1.97 inch	0 ... 12	0 ... 16	0 ... 232 psi	0.5	0.198 lbs
1827231055	G 1/4	2.48 inch	-0.8 ... 0	-1 ... 0	-14 ... 0 psi	0.1	0.22 lbs
1827231011	G 1/4	2.48 inch	0 ... 12	0 ... 16	0 ... 232 psi	0.5	0.22 lbs

Part No.	
1827231057	-
1827231047	1)
1827231059	-
1827231060	1)
1827231054	-

Part No.	
1827231012	-
1827231016	1)
1827231015	1)
1827231010	1)
1827231055	-
1827231011	1)

Order seal 1829202004 separately

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

Technical information

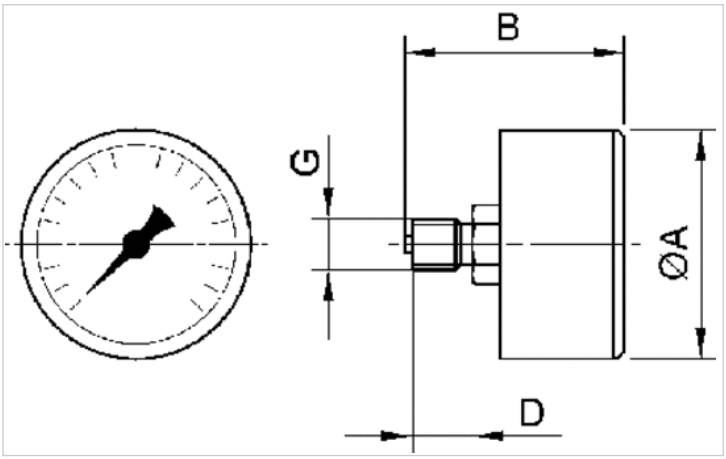
Order axial seal separately

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Polystyrene

Dimensions

Dimensions



Dimensions in mm

G	Nominal diameter	Ø A	B	D
G 1/4	1.57 inch	41	41.5	10
G 1/4	1.97 inch	49	47.5	13
G 1/4	2.48 inch	63	48.3	13

Pressure gauge, Series PG1-SNL-ADJ

- Back port
- with adjustable work area display
- Background color White
- Scale color Black
- Viewing window Polystyrene
- Units bar

Version	Bourdon tube pressure gauge
Version	with adjustable work area display
Seal	Axial
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)	Black
Background color	White
Pointer color	Black
Weight	0.198 lbs

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412003474	G 1/4	1.97 inch	0 bar ... 1.2	0 bar ... 1.6	0 ... 23 psi	0.05
R412003475	G 1/4	1.97 inch	0 bar ... 2	0 bar ... 2.5	0 ... 36 psi	0.1
R412003476	G 1/4	1.97 inch	0 bar ... 3.2	0 bar ... 4	0 ... 58 psi	0.2
R412003477	G 1/4	1.97 inch	0 bar ... 4	0 bar ... 6	0 ... 87 psi	0.2
R412003478	G 1/4	1.97 inch	0 bar ... 8	0 bar ... 10	0 ... 145 psi	0.5
R412003479	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.
Order axial seal separately

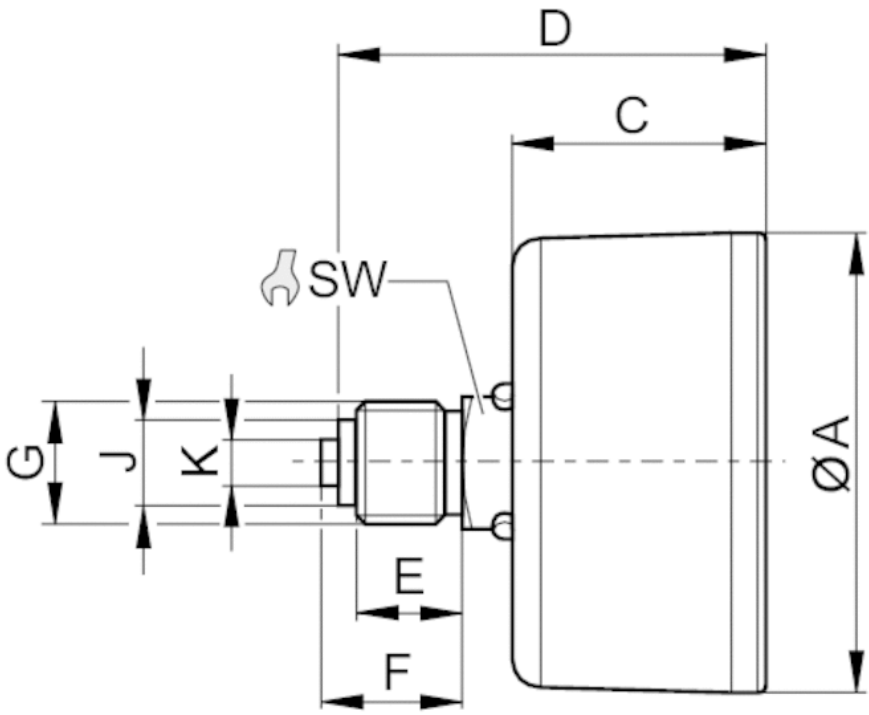
Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass

Material	
Viewing window	Polystyrene

Dimensions

Dimensions



Dimensions

Compressed air connection	Nominal diameter	Ø A	C	D	E	F	J	K	SW
G 1/4	1.97 inch	49	26.5	44.5	11	15	9.5	5	14

Pressure gauge, Series PG1-SNL

- Back port
- Background color Black
- Scale color Green, White
- Viewing window Mineral glass
- Units bar
- Units psi

Version	Bourdon tube pressure gauge
Seal	Axial
Standardization	EN 837-1
Class	1,6
Ambient temperature min./max.	-40 ... 140 °F
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	Green
Secondary scale unit (inside)	psi
Secondary scale color (inside)	White
Background color	Black
Pointer color	White
Weight	0.198 lbs

Technical data

Part No.	Compressed air connection	Nominal diameter	Range of application	Display range	Operating pressure	Scale value
R412004987	G 1/4	1.97 inch	0 ... 12 bar	0 ... 16 bar	0 ... 232 psi	0.5

Technical information

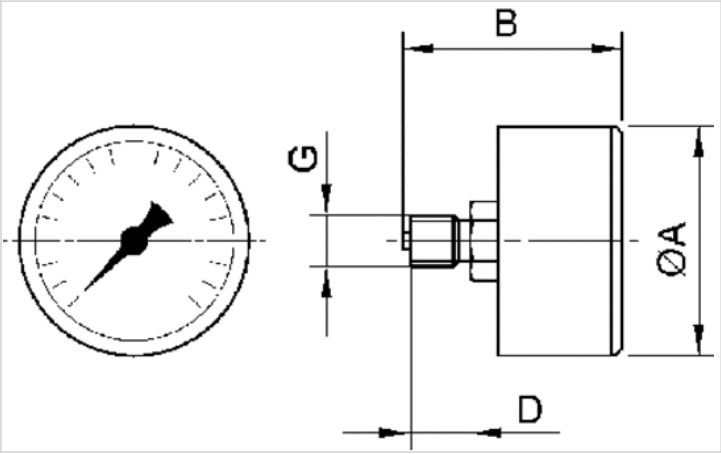
Suitable for use in Ex zones 1, 2, 21, 22
Order axial seal separately

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Viewing window	Mineral glass

Dimensions

Dimensions

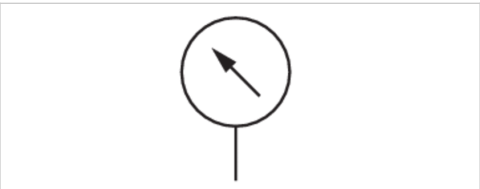


Dimensions in mm

G	Nominal diameter	Ø A	B	D
G 1/4	1.97 inch	49	47.5	13

Pressure gauge, Series PG1-SNL

- Back port
- Background color Black
- Scale color Green, White
- Viewing window Polystyrene
- Units bar
- Units psi
- suitable for ATEX



Version	Bourdon tube pressure gauge
Seal	Axial
Standardization	EN 837-1
Class	1,6
Ambient temperature min./max.	-40 ... 140 °F
Medium	Compressed air
Main scale unit (outside)	bar
Main scale color (outside)	Green
Secondary scale unit (inside)	psi
Secondary scale color (inside)	White
Background color	Black
Pointer color	White
Weight	0.198 lbs

Technical data

Part No.	Compressed air connection	Range of application	Display range	Operating pressure	Scale value
1827231023	G 1/4	0 ... 1.2	0 ... 1.6	0 psi	0.05

Order seal 1829202004 separately

Technical information

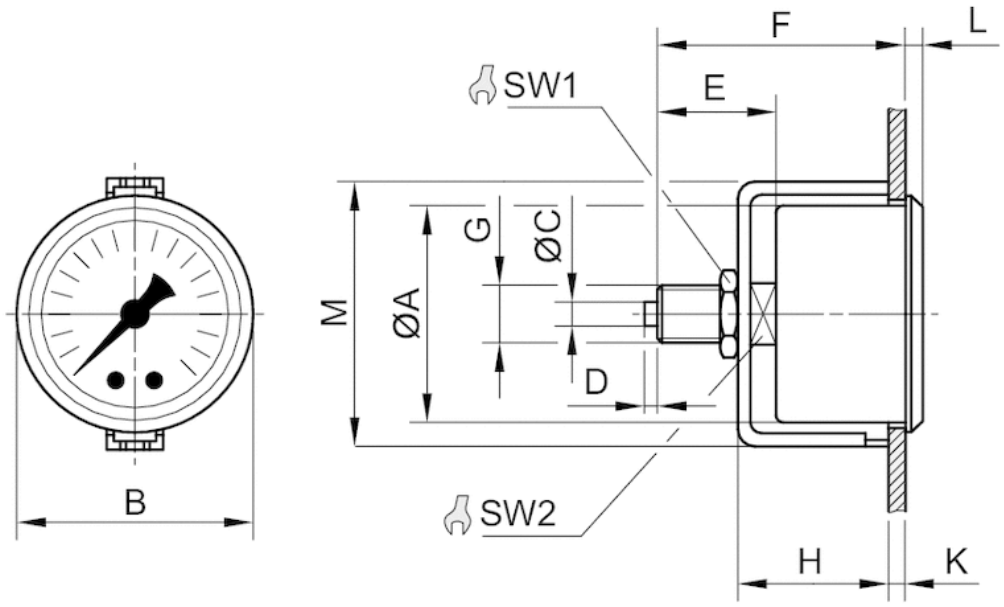
Order axial seal separately

Technical information

Material	
Housing	Acrylonitrile butadiene styrene
Thread	Brass
Front ring	Steel, chrome-plated
Viewing window	Polystyrene

Dimensions

Dimensions

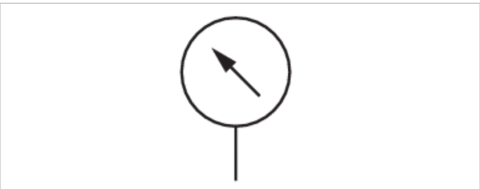


Dimensions in mm

Compressed air connection	Ø A	B	C	D	E	F	H	K	L	M	SW1	SW2
G 1/4	50	54	5	3	29.5	51.5	34.5	3	4.5	61	17	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

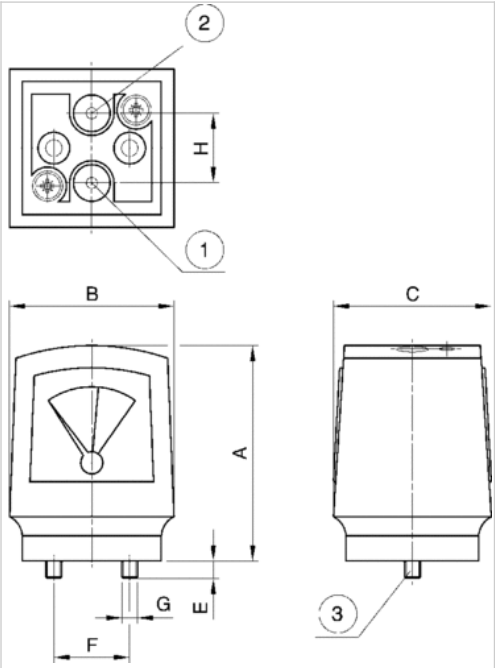
Suitable for use in Ex zones 1, 2, 21, 22

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

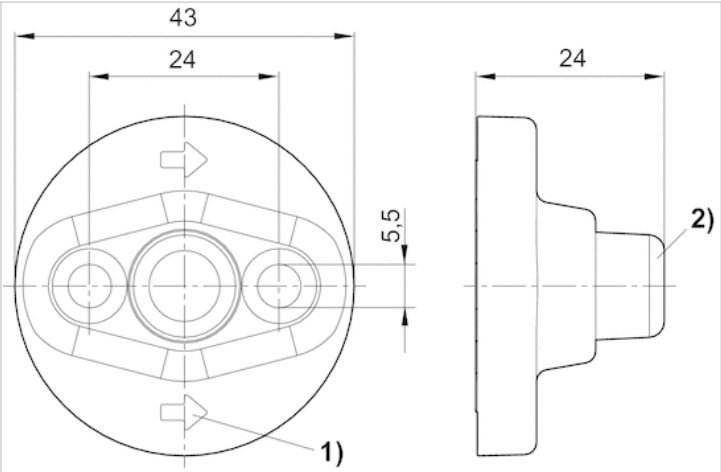
2 mounting screws and 2 O-rings supplied loose, Suitable for use in Ex zones 1, 2, 21, 22

Technical information

Material	
Material	Polyamide

Dimensions

Dimensions



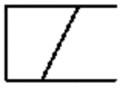
1) Flow direction
2) Display in initial state: green (= Δp 0.35 bar)
Display turns red on contamination of the filter element (= Δp ≥ 0.35 bar).

Dimensions in mm

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

Coil, Series CO1

- form B
- Coil width 0.87 inch
- Power consumption,DC 2.6-5.9 W
- Holding power,AC 7.7-9.7 VA
- Switch-on power,AC 10.5-12.6 VA



Connector standard	EN 175301-803, form B
electrical connections	Plug, 3-pin
Ambient temperature min./max.	122 °F
Protection class,With valve plug connector/plug	IP65
Duty cycle ED	100 %
Weight	0.154 lbs

Technical data

Part No.	Operational voltage	Operational voltage	Operational voltage
	DC	AC 50 Hz	AC 60 Hz
1824210245	24 V	-	-
1824210239	12 V	24 V	24 V
1824210243	24 V	48 V	48 V
1824210241	48 V	-	-
1824210237	60 V	110 V	110 V
1824210235	110 V	220 V	230 V

Part No.	Voltage tolerance	Voltage tolerance	Voltage tolerance	Power consumption
	DC	AC 50 Hz	AC 60 Hz	DC
1824210245	-10% / +10%	-10% / +10%	-10% / +10%	2.6 W
1824210239	-10% / +10%	-10% / +10%	-10% / +10%	5.5 W
1824210243	-10% / +10%	-10% / +10%	-10% / +10%	4.8 W
1824210241	-10% / +10%	-10% / +10%	-10% / +10%	5 W
1824210237	-10% / +10%	-10% / +10%	-10% / +10%	5.9 W
1824210235	-10% / +10%	-10% / +10%	-10% / +10%	4.9 W

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
1824210245	-	-	-	-
1824210239	8.9 VA	7.3 VA	12 VA	9.9 VA

Part No.	Holding power	Holding power	Switch-on power	Switch-on power
	AC 50 Hz	AC 60 Hz	AC 50 Hz	AC 60 Hz
1824210243	7.7 VA	6.2 VA	10.5 VA	9.4 VA
1824210241	-	-	-	-
1824210237	8.4 VA	6.8 VA	11 VA	9.4 VA
1824210235	9.7 VA	7.9 VA	12.6 VA	10.2 VA

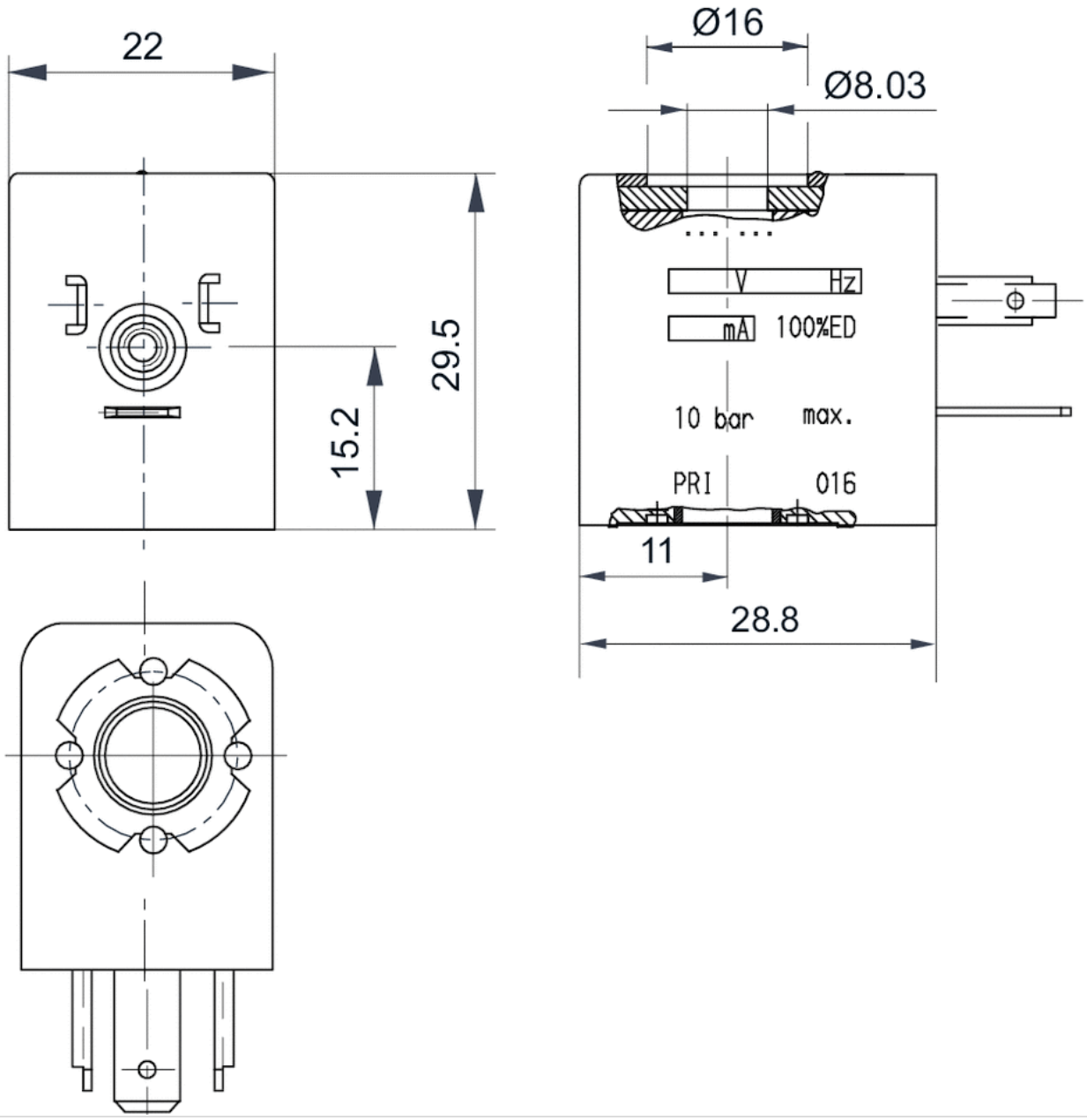
Part No.	Compatibility index
1824210245	13
1824210239	14
1824210243	14
1824210241	14
1824210237	14
1824210235	14

Technical information

Material	
Housing	Thermoplastic elastomer

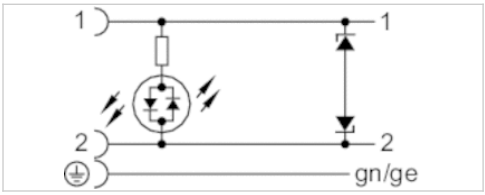
Dimensions

Dimensions



Valve plug connector, series CON-VP

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



Ambient temperature min./max.	-4 ... 176 °F
Operational voltage	24 V, AC/DC
Protection class	IP67
Protective circuit	Z-diode
Wire cross-section	0.001 in²
Mounting screw tightening torque	0.3 ft./lbs.
Weight	See table below

Technical data

Part No.	Max. current	Contact assignment	LED status display	Number of wires	Cable length	Weight	Fig.
1834484153	10 A	2+E	Yellow	3	9.84 ft.	0.441 lbs	Fig. 2
1834484155	10 A	2+E	Yellow	3	16.4 ft.	0.683 lbs	Fig. 2

Scope of delivery incl. flat gasket

Technical information

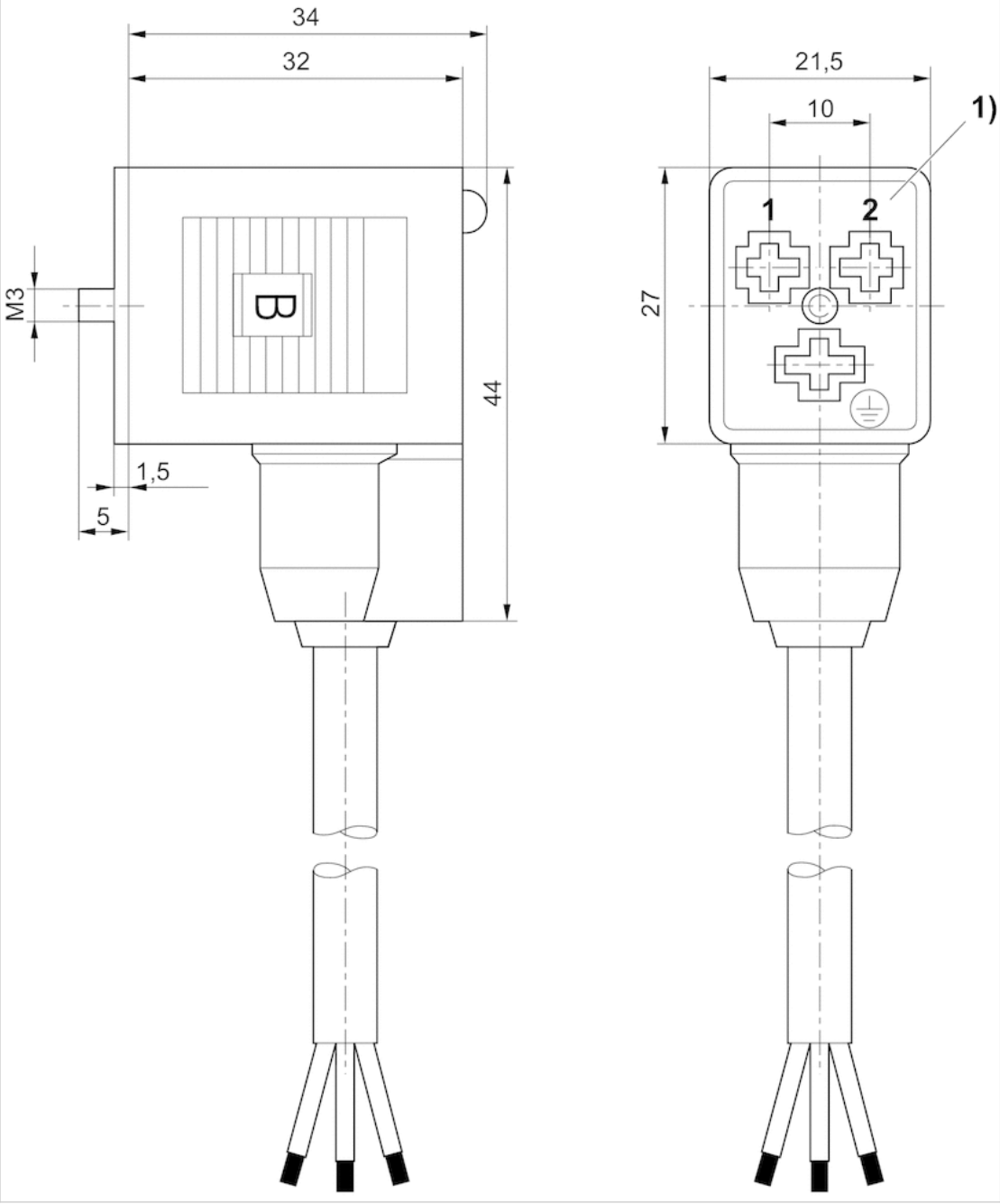
The specified protection class is only valid in assembled and tested state.

Technical information

Material	
Seals	caoutchouc/butadiene caoutchouc
Cable sheath	Polyvinyl chloride

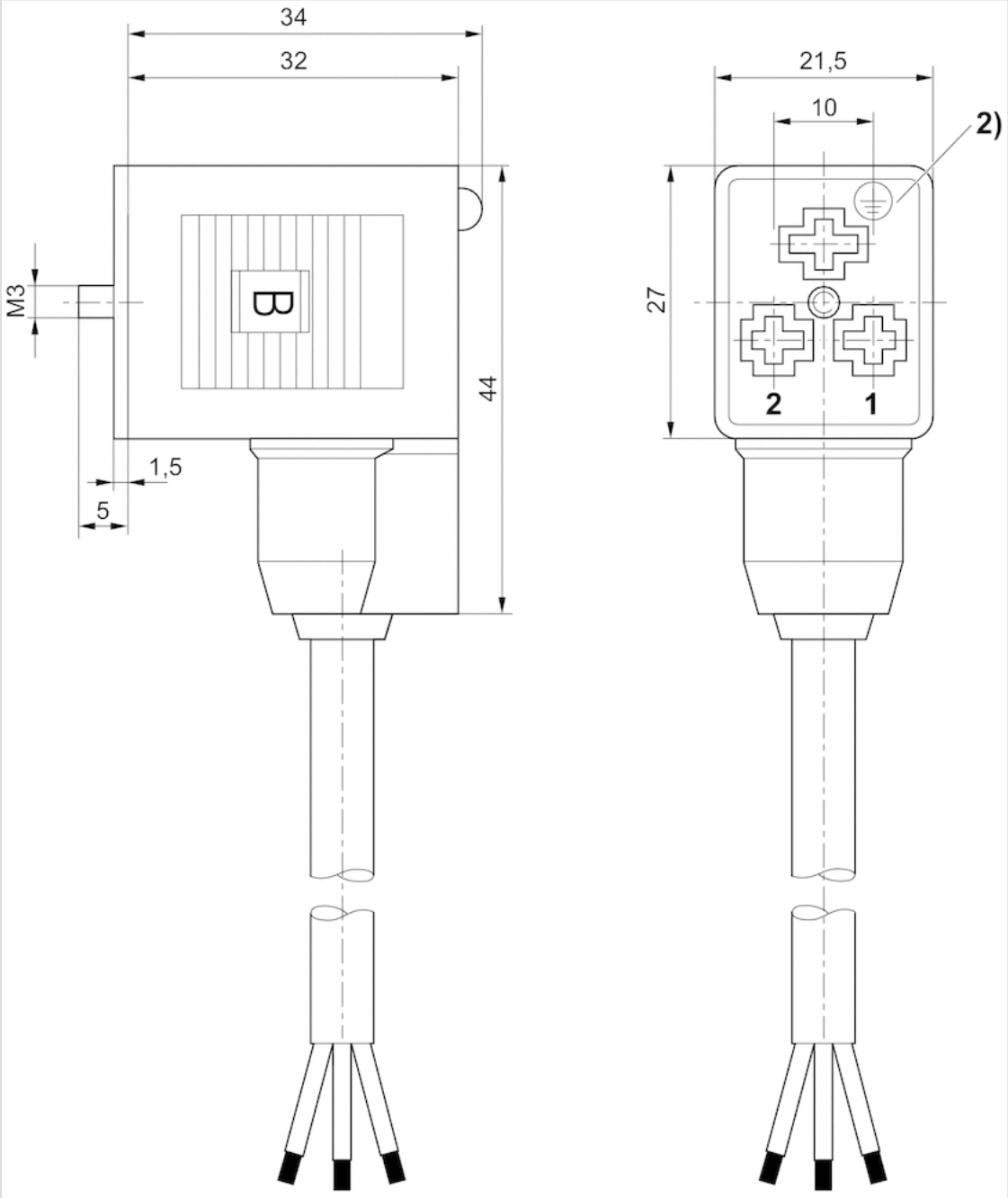
Dimensions

Fig. 1



1) 0° female insert

Fig. 2



2) 180° female insert

Valve plug connector, series CON-VP

- Socket, form B, 2+E, angled, 90°
- ISO 6952
- unshielded
- with LED Yellow, Red, Red

Connection type	Screws
Ambient temperature min./max.	-13 ... 122 °F
Operational voltage	See table below
Protection class	IP65
Mounting screw tightening torque	0.3 ft./lbs.
Weight	0.044 lbs

Technical data

Part No.		Operational voltage	Protective circuit	Contact assignment
1834484104		24 V, AC/DC	Z-diode	2+E
1834484105		110 V, AC	Varistor	2+E
1834484106		230 V, AC	Varistor	2+E

Part No.	LED status display	suitable cable-Ø min./max	Fig.
1834484104	Yellow	0.24 / 0.31 inch	Fig. 2
1834484105	Red, Red	0.24 / 0.31 inch	Fig. 2
1834484106	Red, Red	0.24 / 0.31 inch	Fig. 2

Profile seal, Flat gasket

Technical information

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

Technical information

Material	
Seals	Silicone caoutchouc

Dimensions

Fig. 1

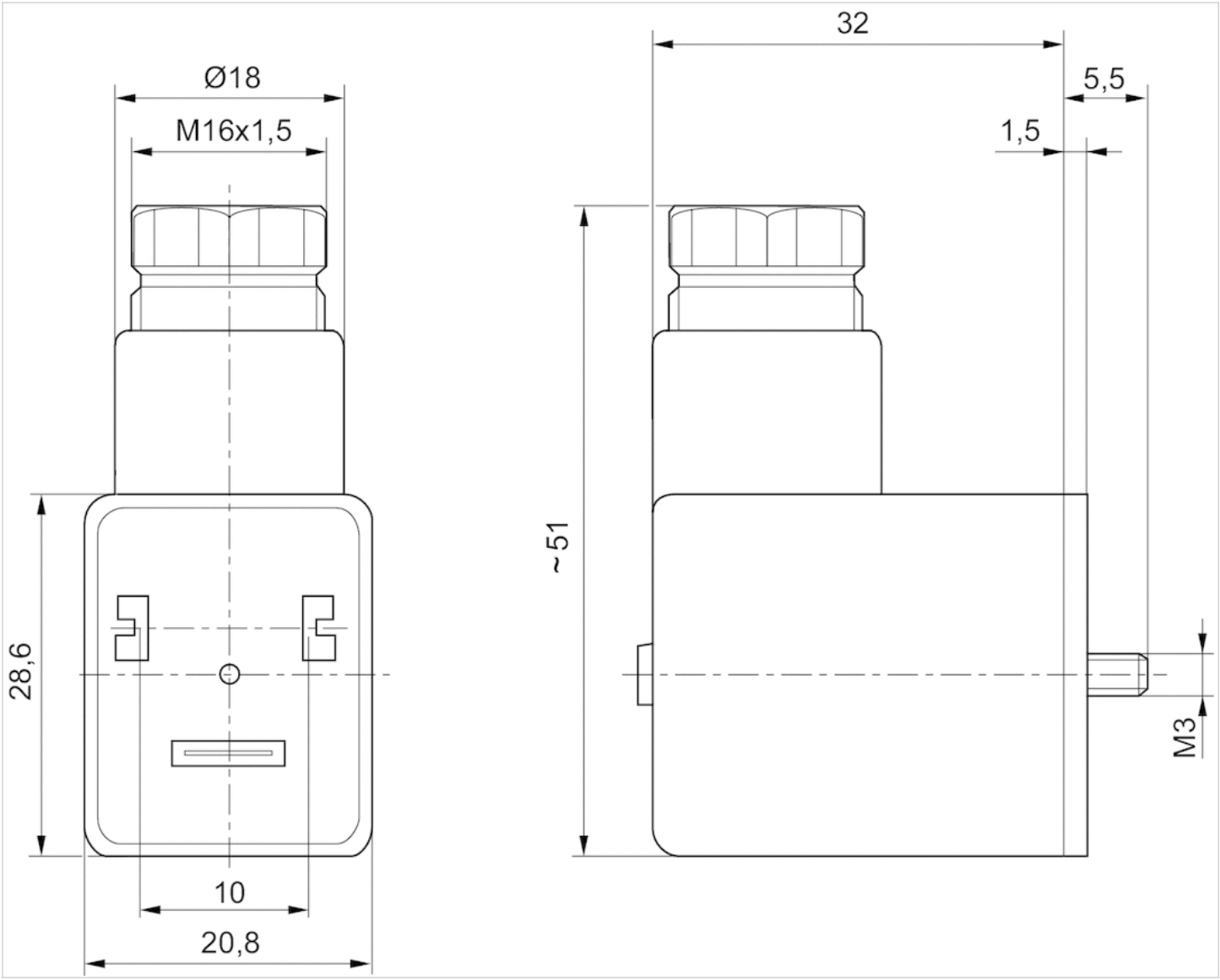
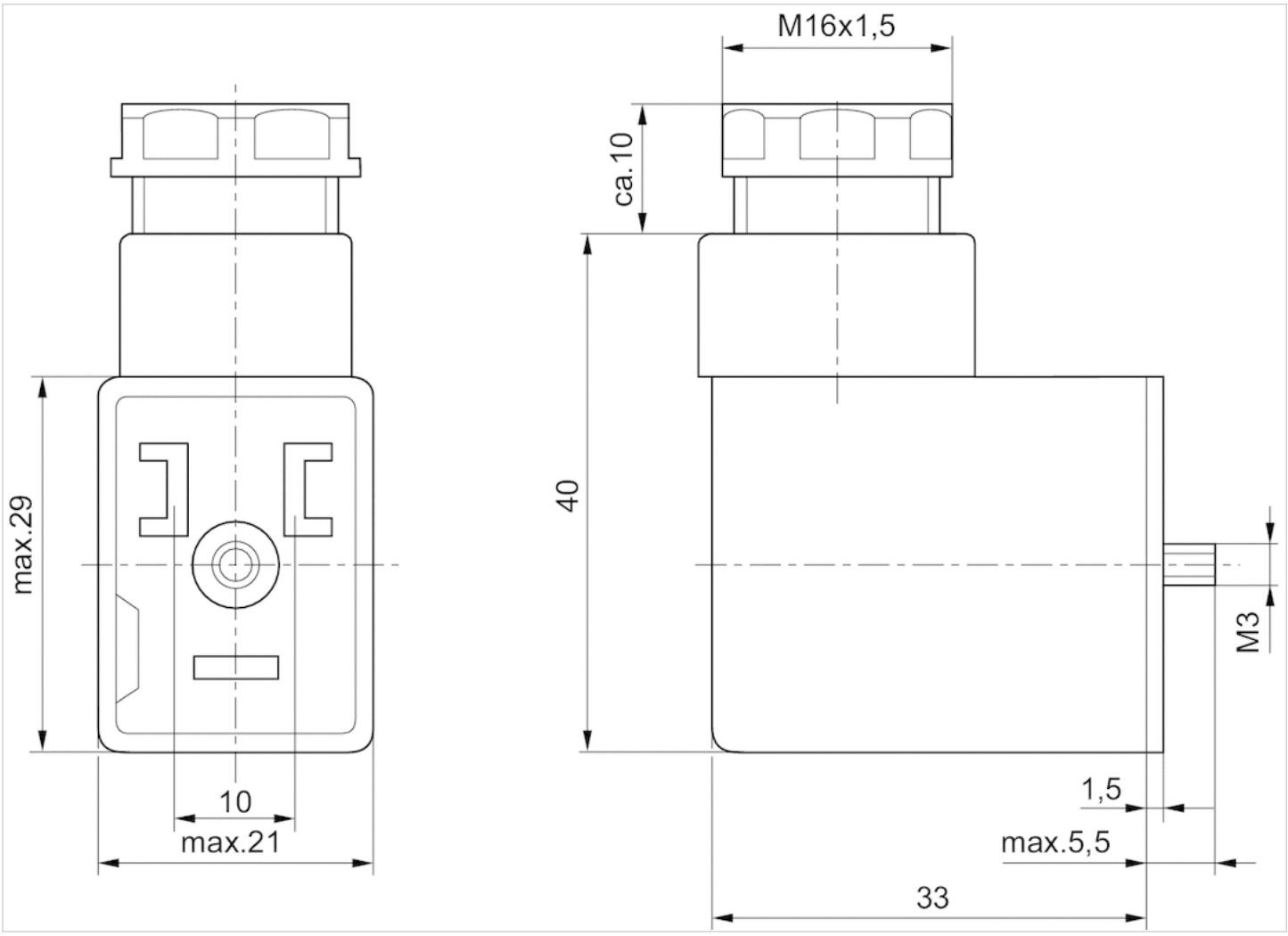


Fig. 2



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

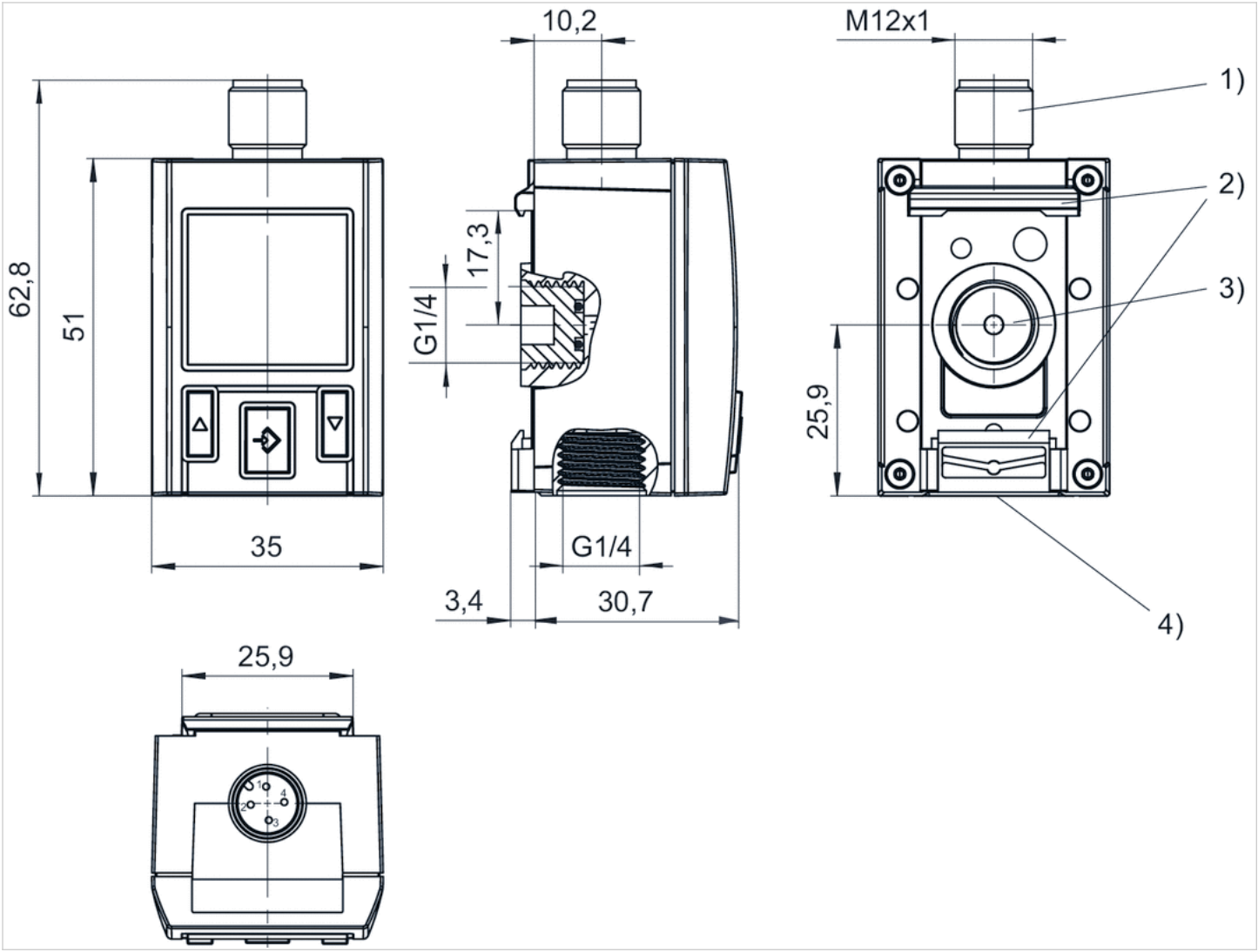
Alternative pressure connection (G1/4) on the rear side (closed with plug)
Display color selectable, red or green
The IO-Link device description (IODD) for the PE5 pressure sensor is available for download in the Media Centre.

Technical information

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

Dimensions

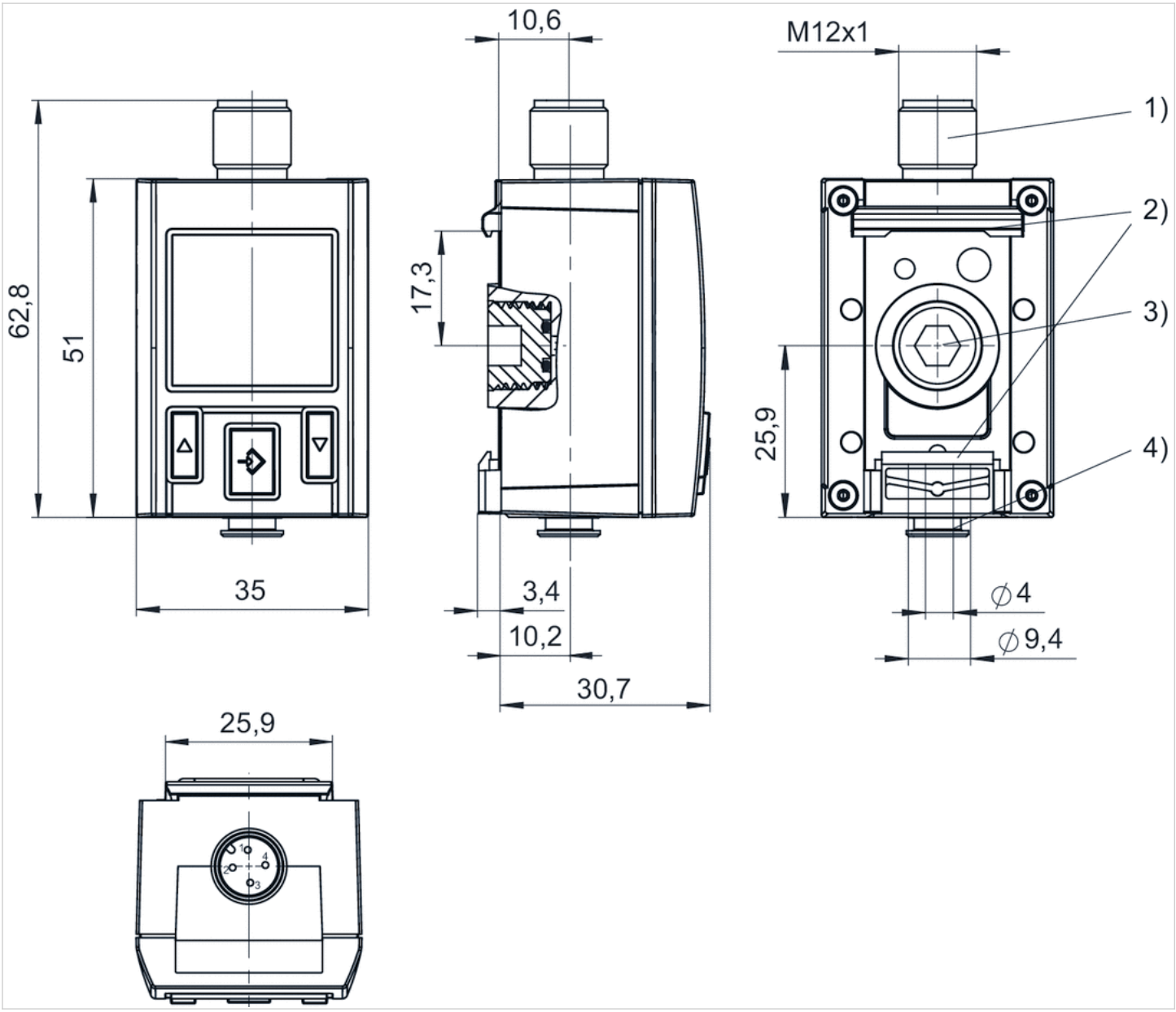
Fig. 1



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

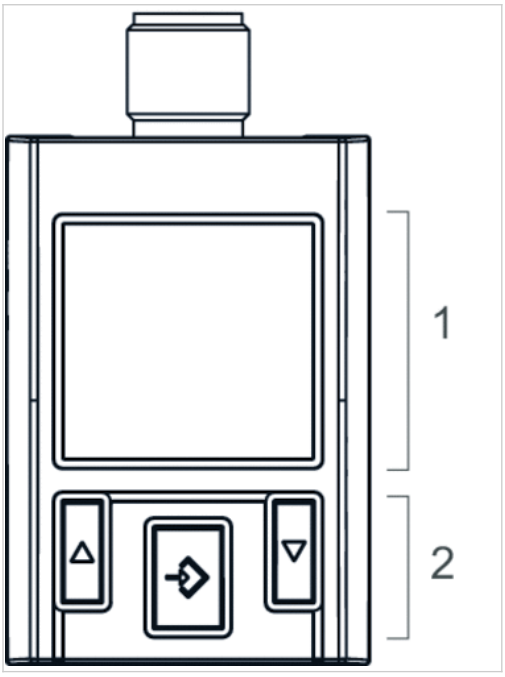
3) Alternative pressure connection (G1/4) closed with plug
4) Pressure connection G1/4

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 Ø 4 mm

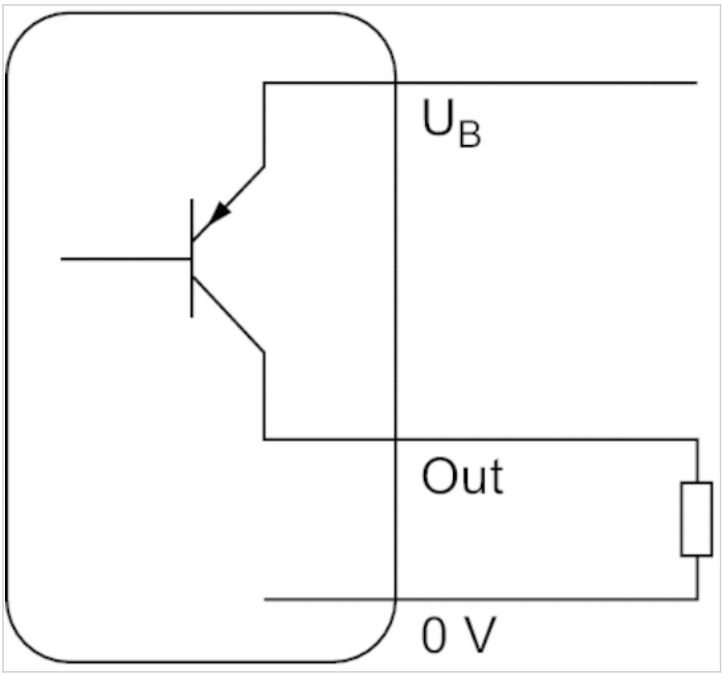
Display and operation area



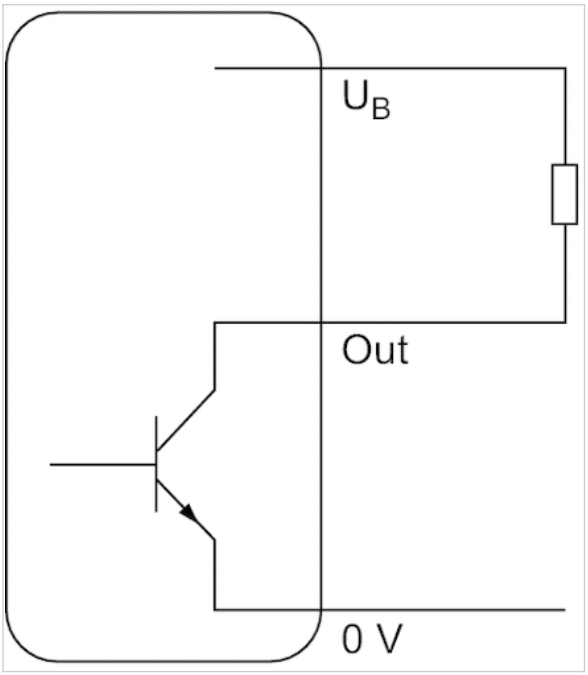
1) LCD display
2) Control panel with 3 buttons

Diagrams

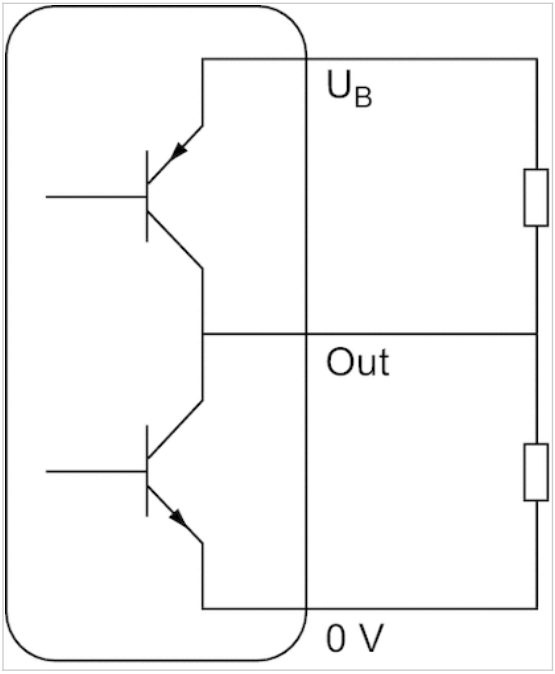
Operating mode PNP



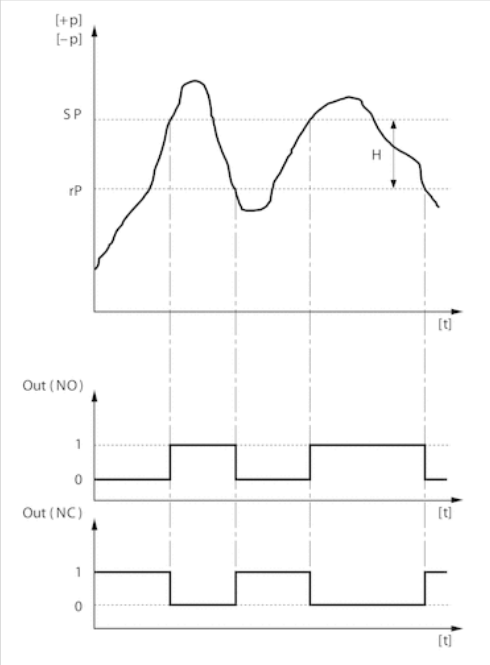
Operating mode NPN



Operating mode Push-pull

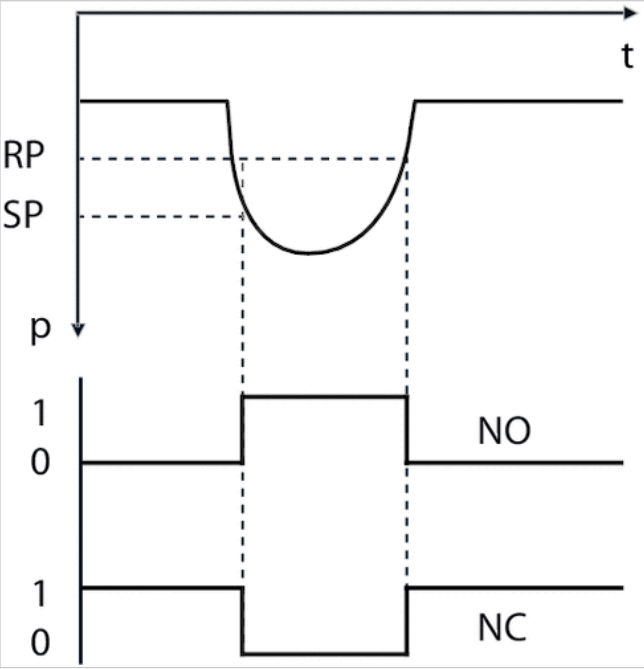


Hysteresis function: switching and resetting behavior dependent on pressure p and time t In case

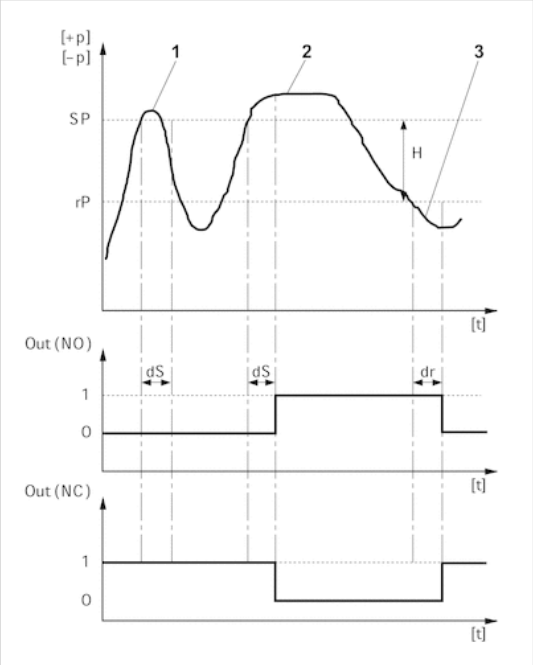


H: Hysteresis
SP = switching point
RP = resetting point
Out (NC): switch output, break contact
Out (NO): switch output, make contact

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

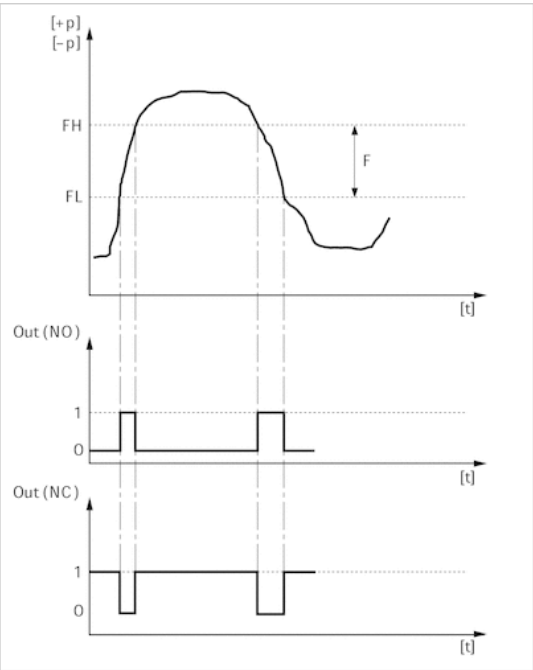


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time



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

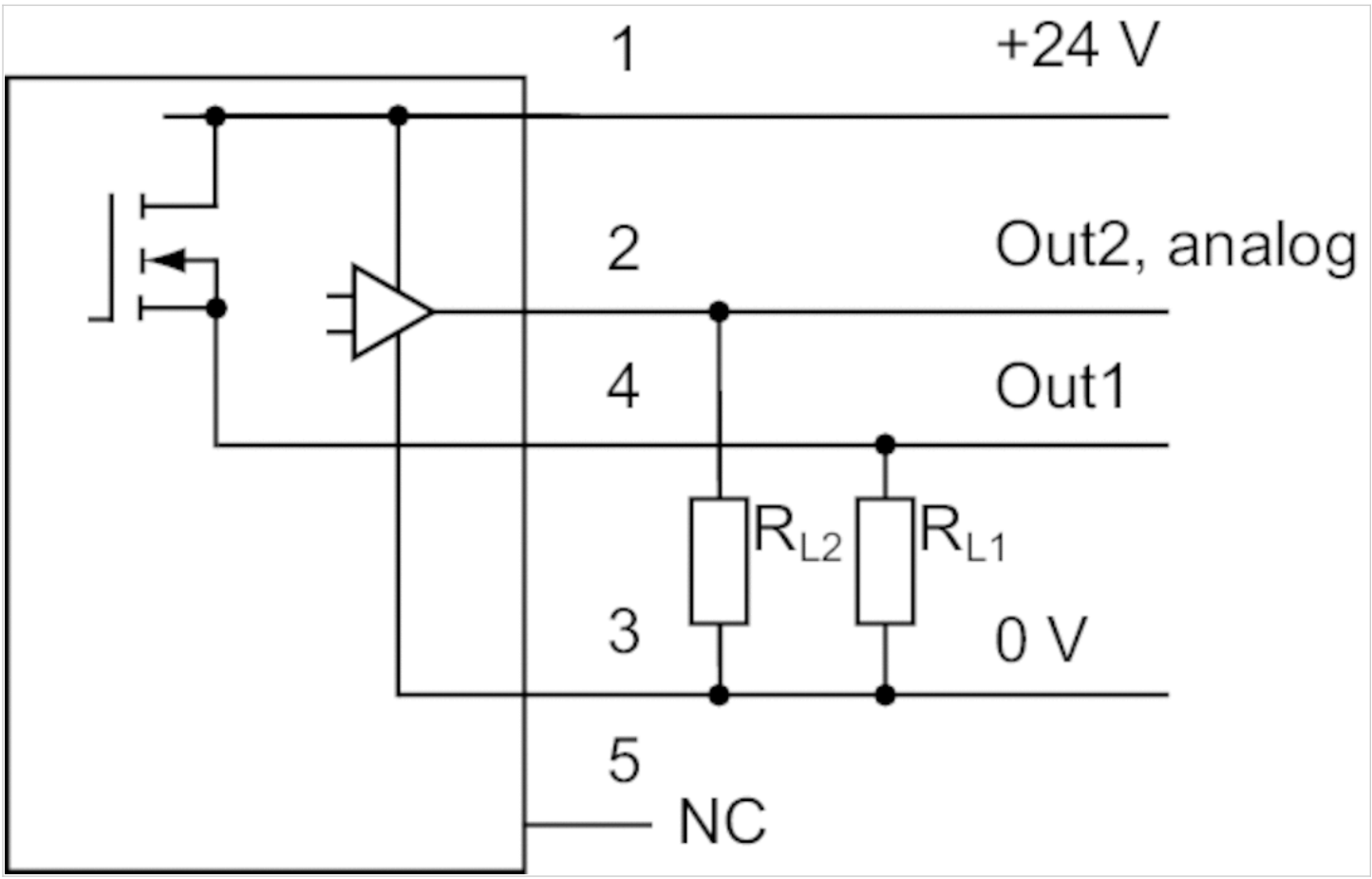


FH: pressure band, upper value
FL: pressure band, lower value
Out (NC): switch output, break contact

Out (NO): switch output, make contact

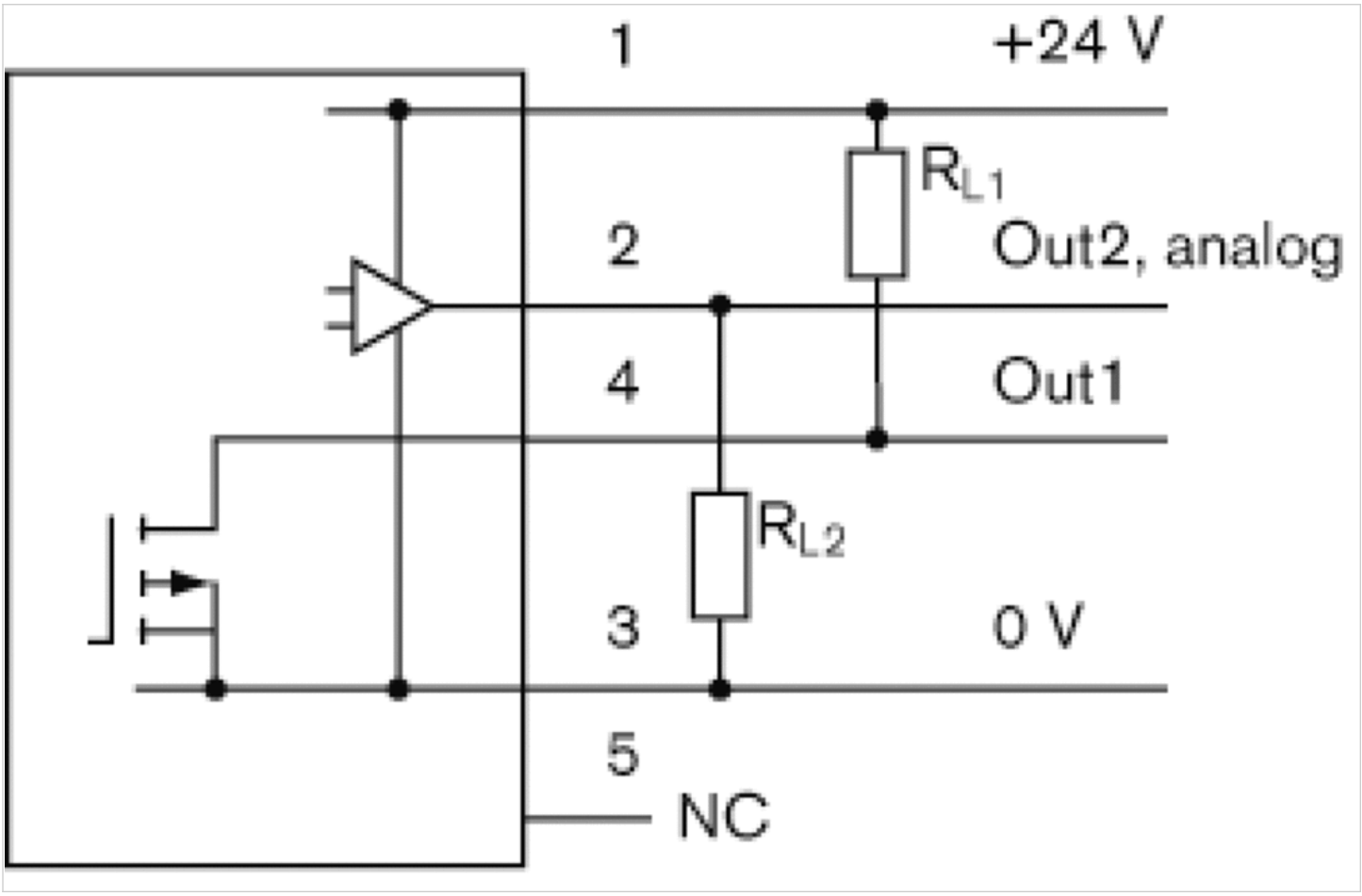
Circuit diagram

Block diagram 1x PNP and 1x analog



RL = storable postion

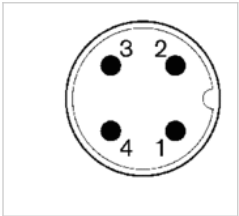
Block diagram 1x NPN and 1x analog



RL = storable postion

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

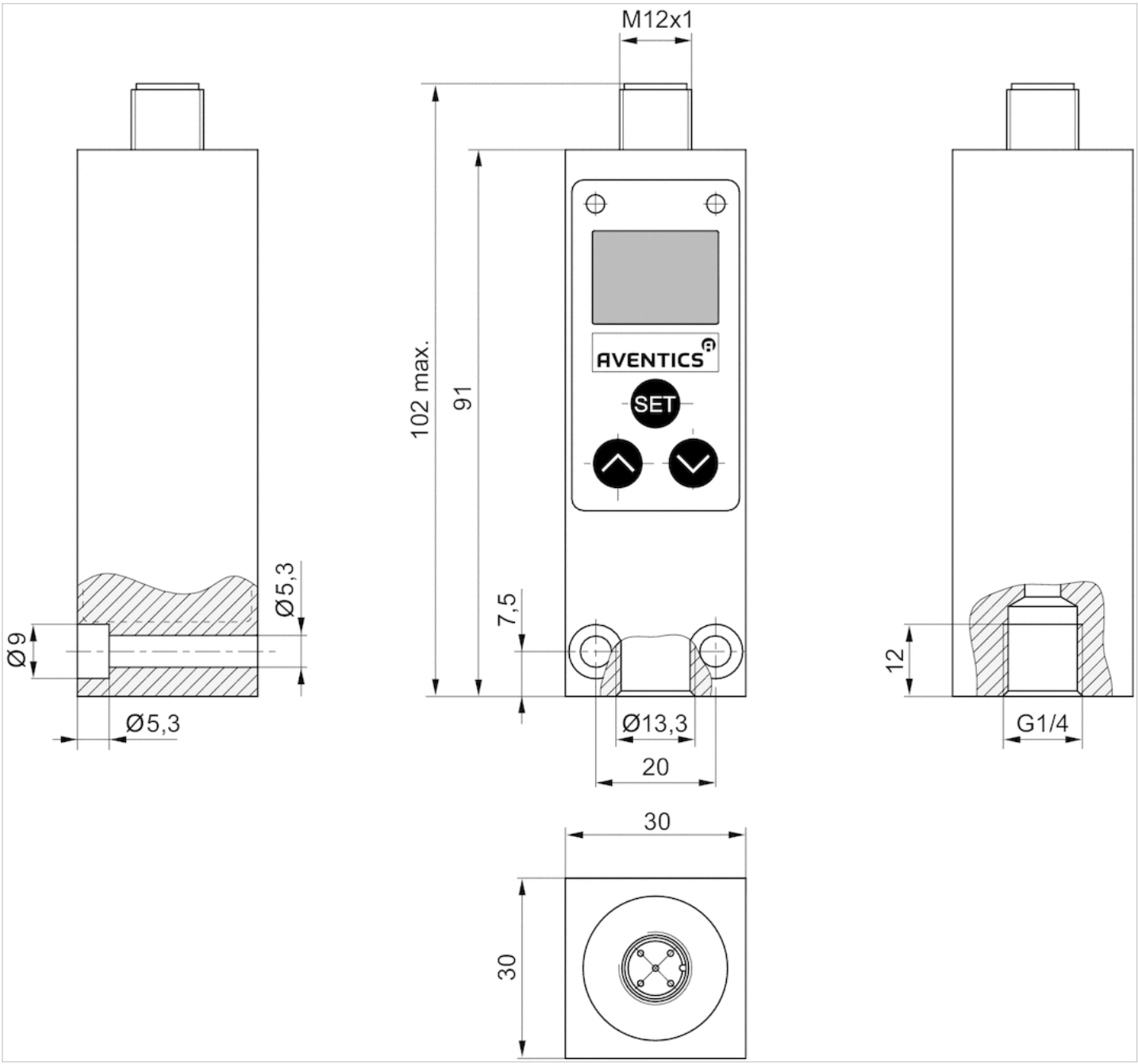
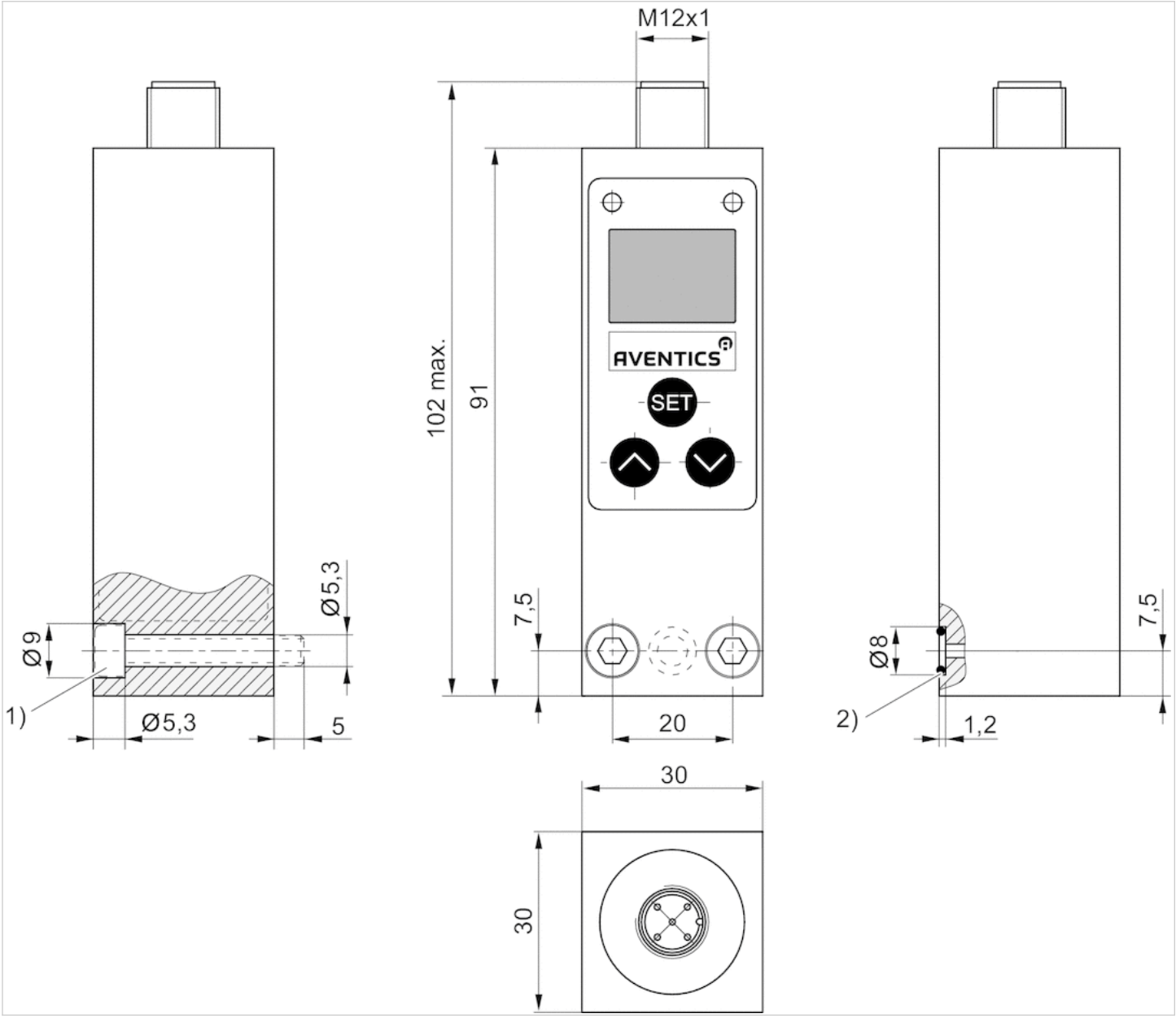
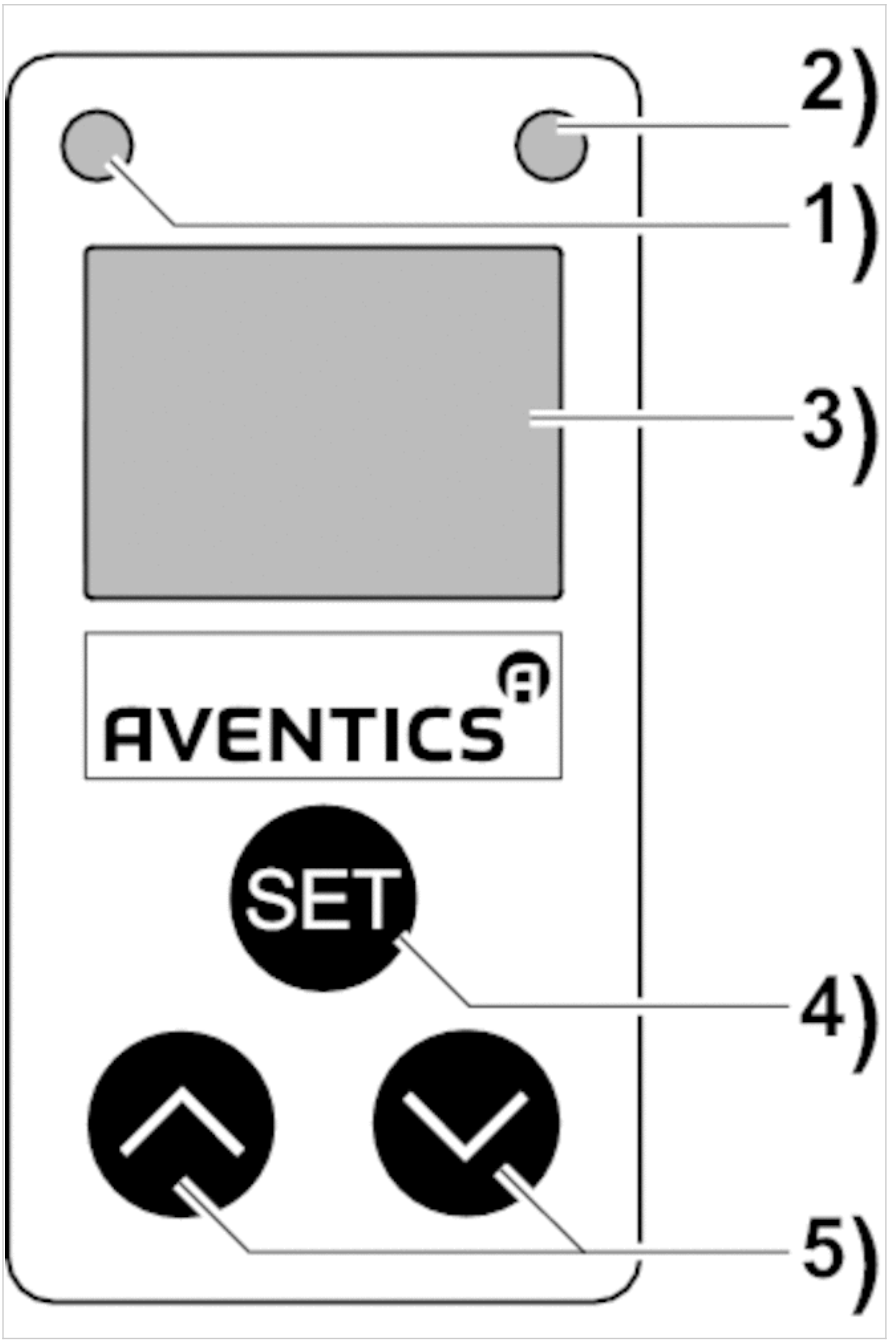


Fig. 2



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

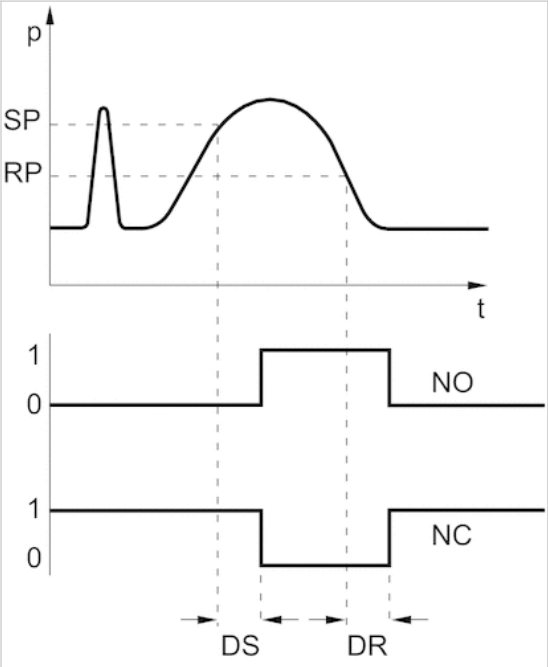
Display and operation area



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

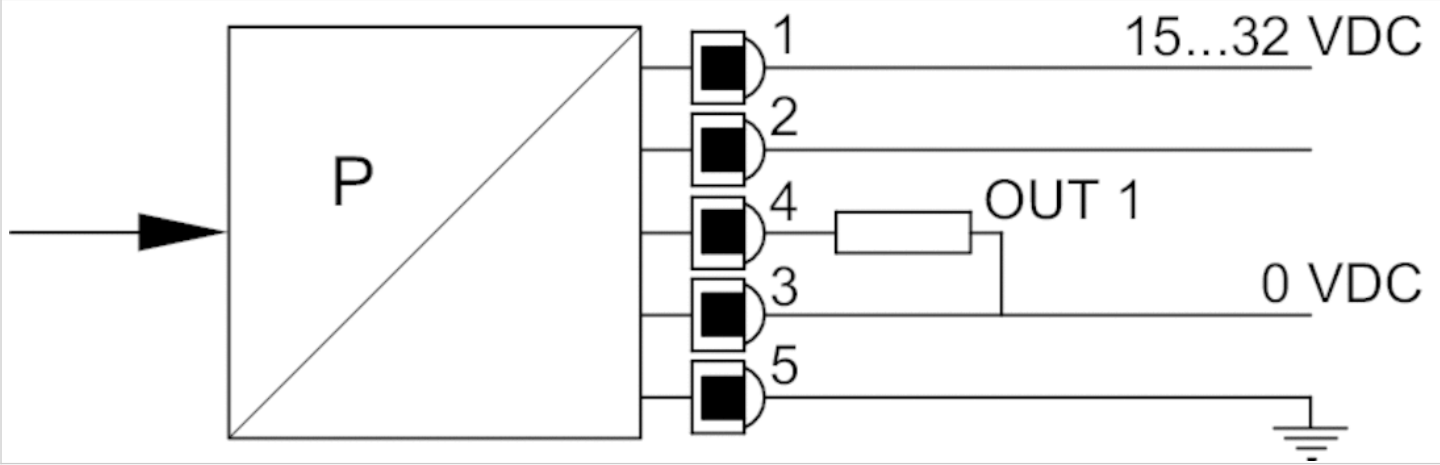
Pressure-voltage characteristics curve



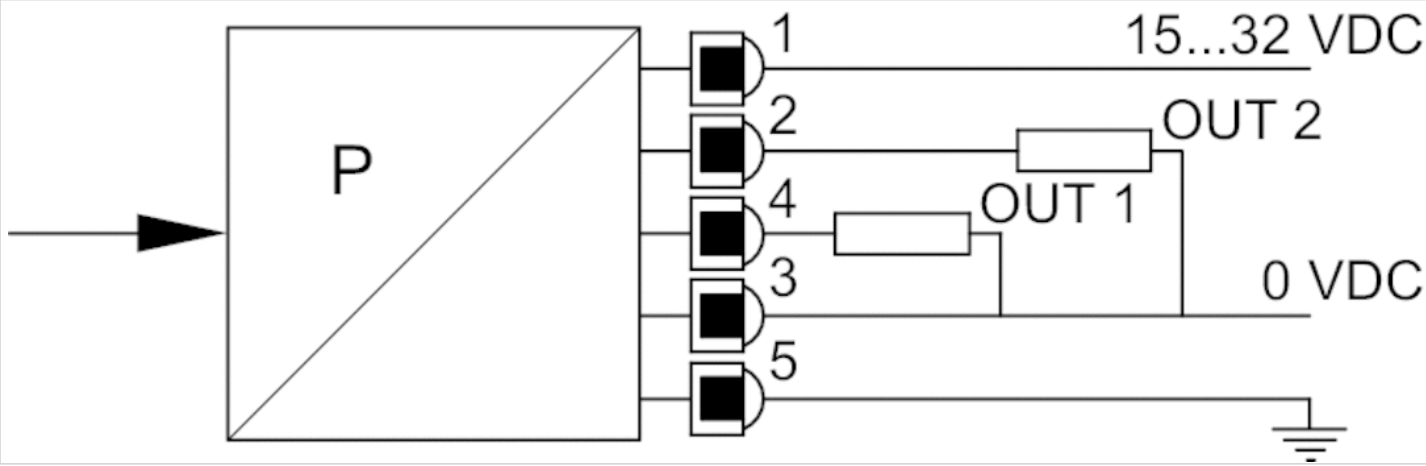
SP = switching point
RP = resetting point
NO = Switching function open
NC = Switching function closed without current
DS = Delay for the switching point
DR = Delay for the resetting point

Circuit diagram

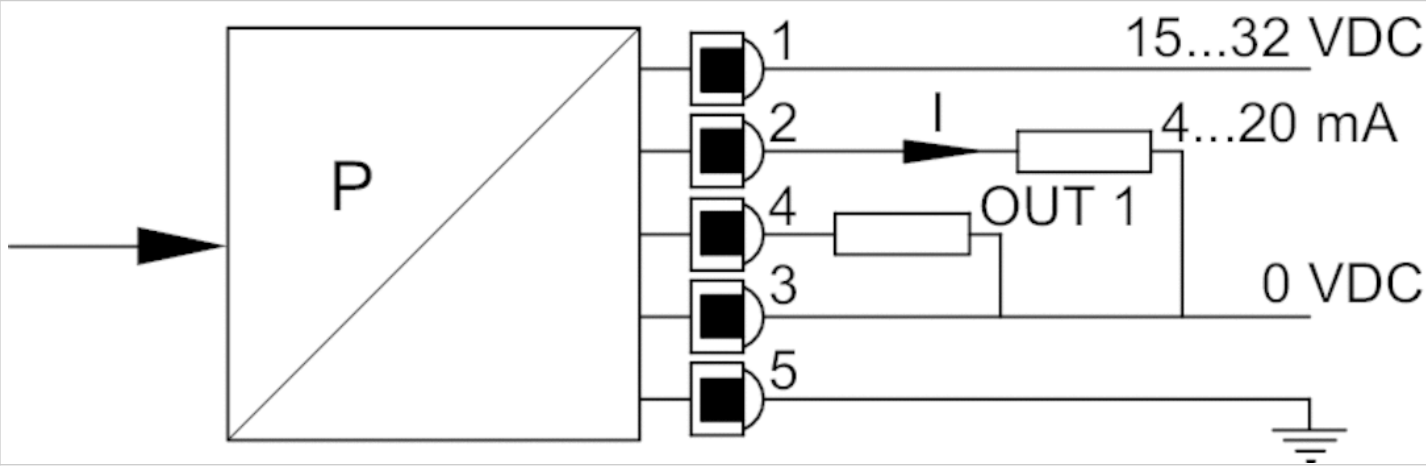
Block diagram 1 x PNP



Block diagram 2 x PNP

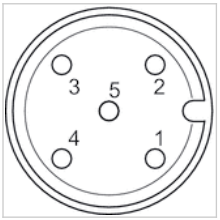


Block diagram 1x PNP and 1x analog



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 bellow, adjustable
- Electr. connection Plug, EN 175301-803, form A
- Compressed air connection Internal thread, G 1/4, Flange with O-ring, Ø 5x1,5

Type	Mechanical
Function	change-over contact (mechanical)
Mounting orientation	Any
Working pressure min./max.	See table below
Ambient temperature min./max.	-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 min./max.	Compressed air connection
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

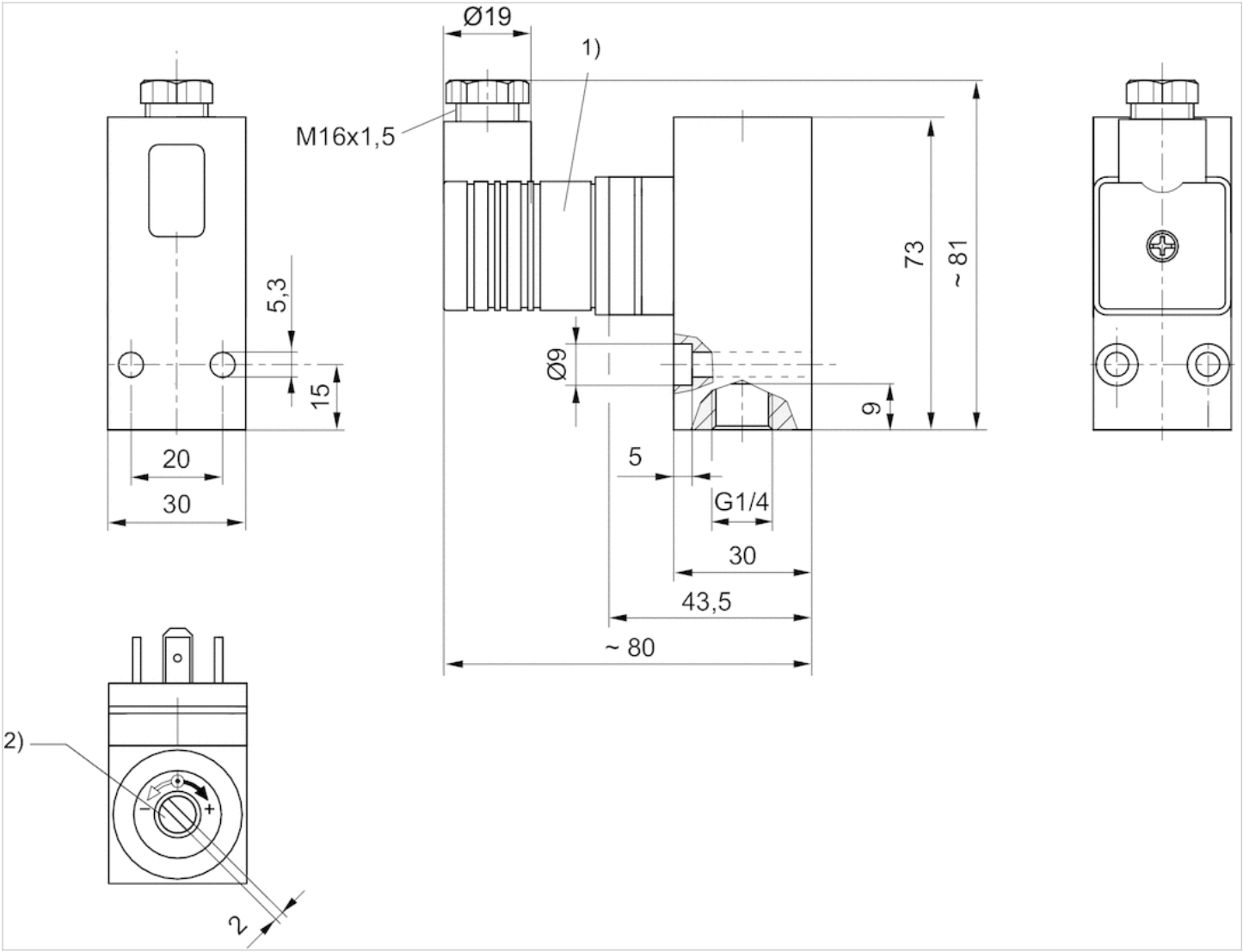
Switching function increasing pressure: contact switches from 1-2 to 1-3.
Switching function decreasing pressure: contact switches from 1-3 to 1-2.
Notice:Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!
The microswitch has silver-plated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

Technical information

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

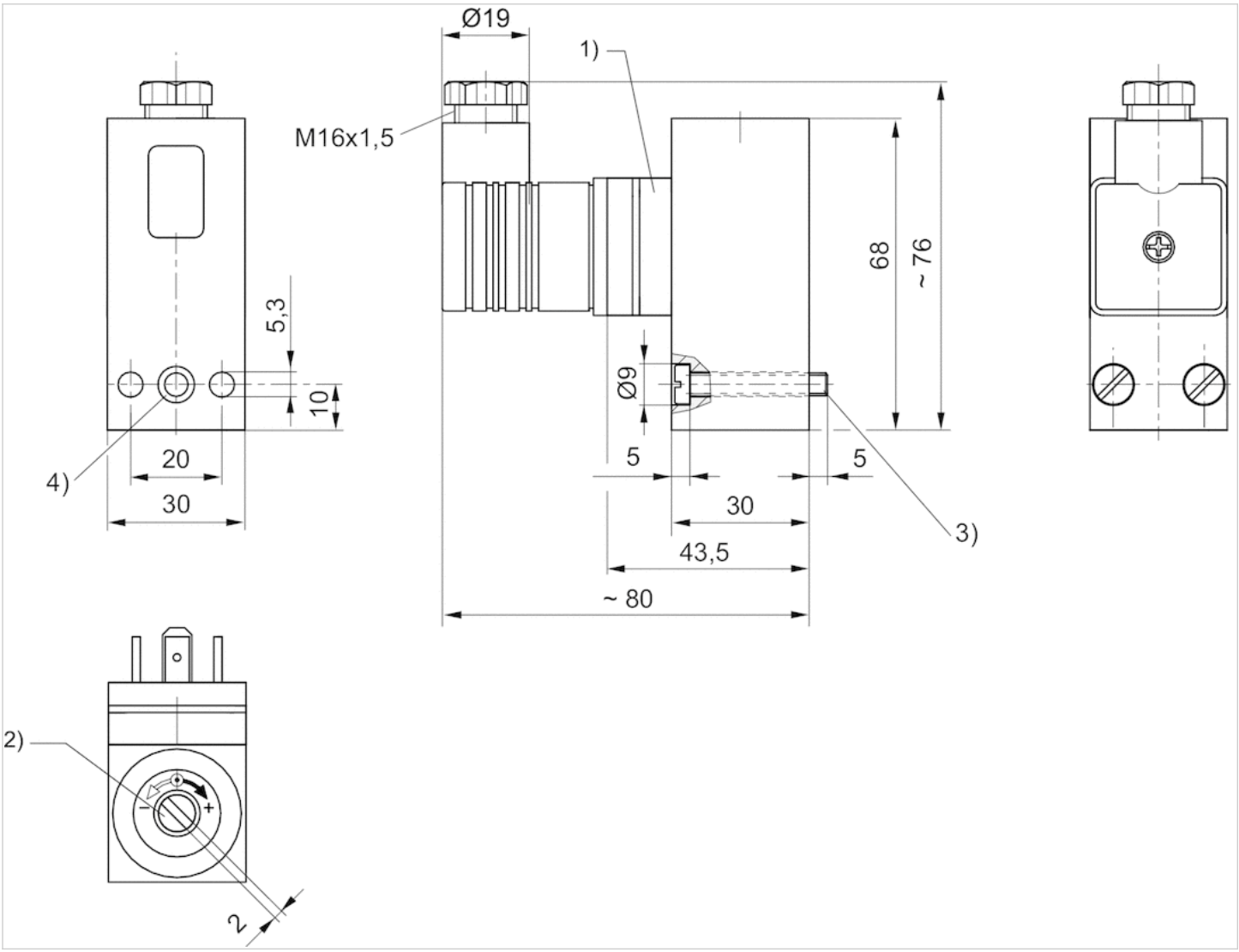
Dimensions

Fig. 1



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

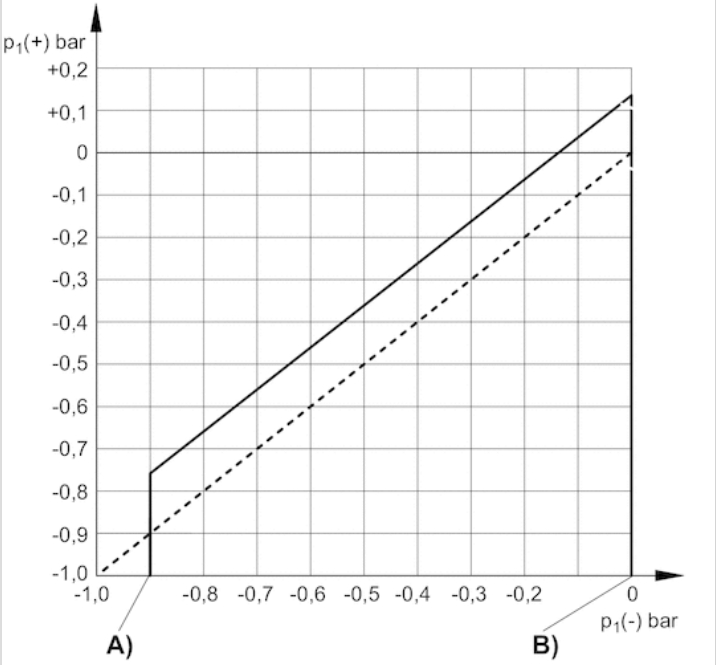
Fig. 2



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

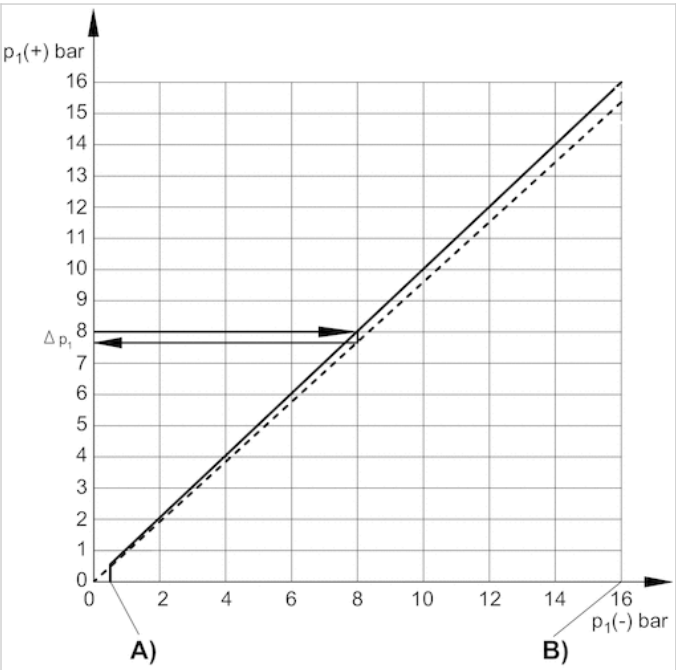
Diagrams

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



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

differential switching pressure characteristic curve (02 - 16 bar)



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

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

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

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

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

1) AC

2) DC

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

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

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

1) AC

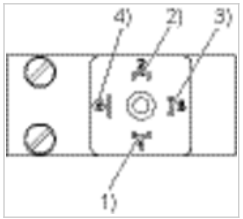
2) DC

3) cos ≈ 0,7°

4) L/R ≈ 10 ms

Pin assignments

PIN assignment for valve plug connectors



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

Pressure Switches, Series PM1

- Operating pressure -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 min./max.	Compressed air connection
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

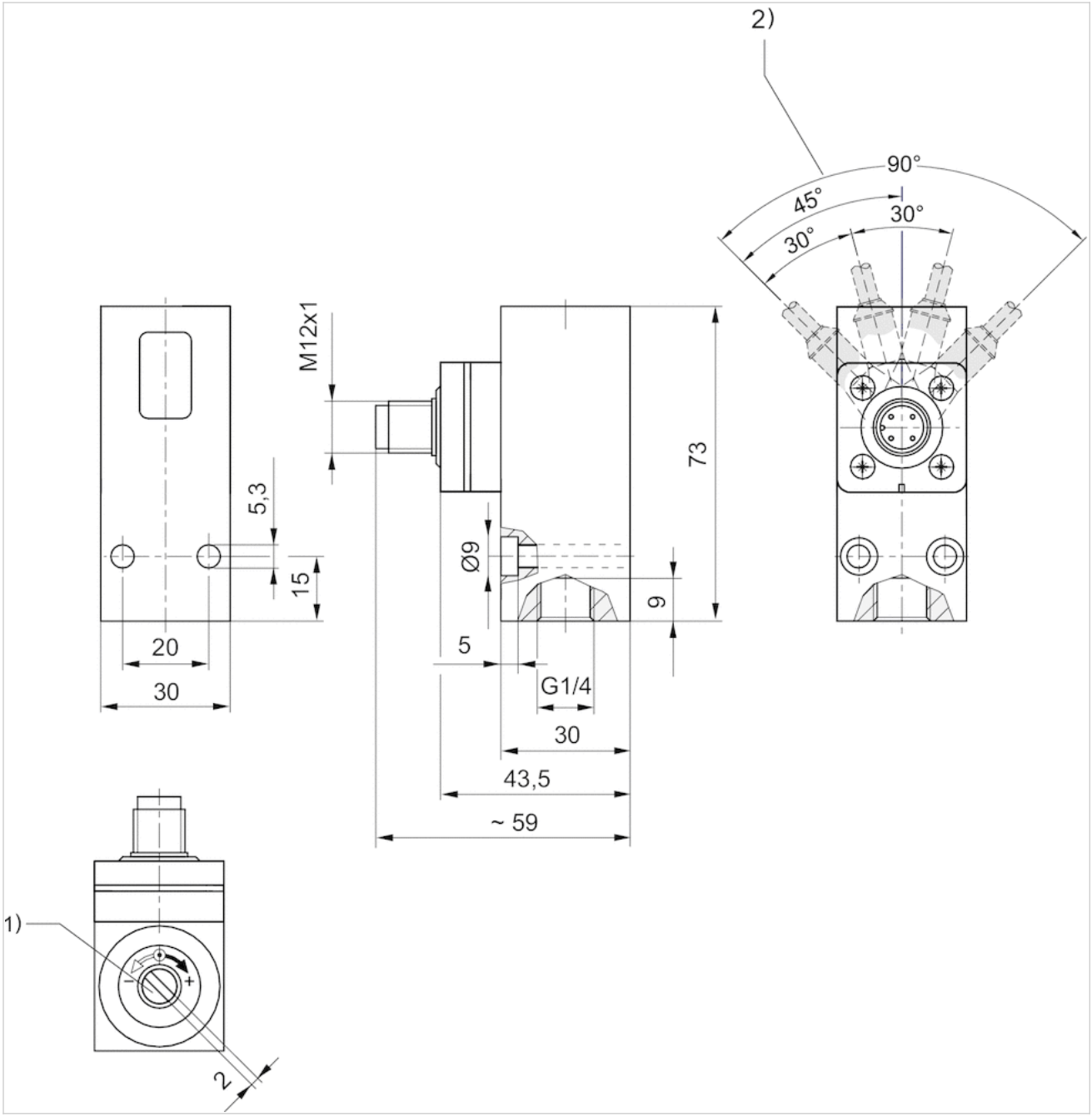
Switching function increasing pressure: contact switches from 1-2 to 1-3.
Switching function decreasing pressure: contact switches from 1-3 to 1-2.
Notice:Too-high currents can damage contacts. Inductive or capacitive loads must be equipped with appropriate spark-quenching!
The microswitch has silver-plated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

Technical information

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

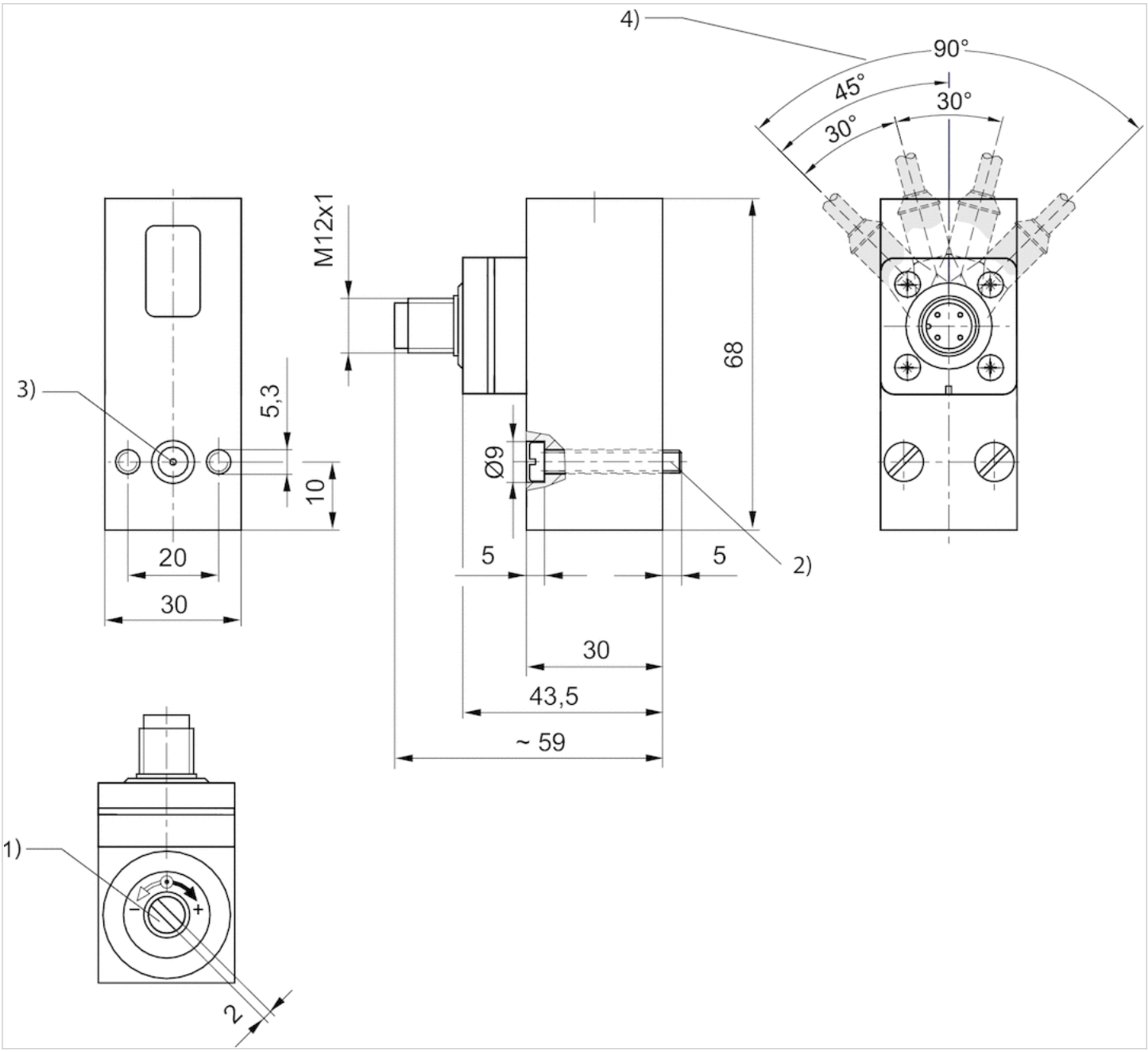
Dimensions

Fig. 1



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

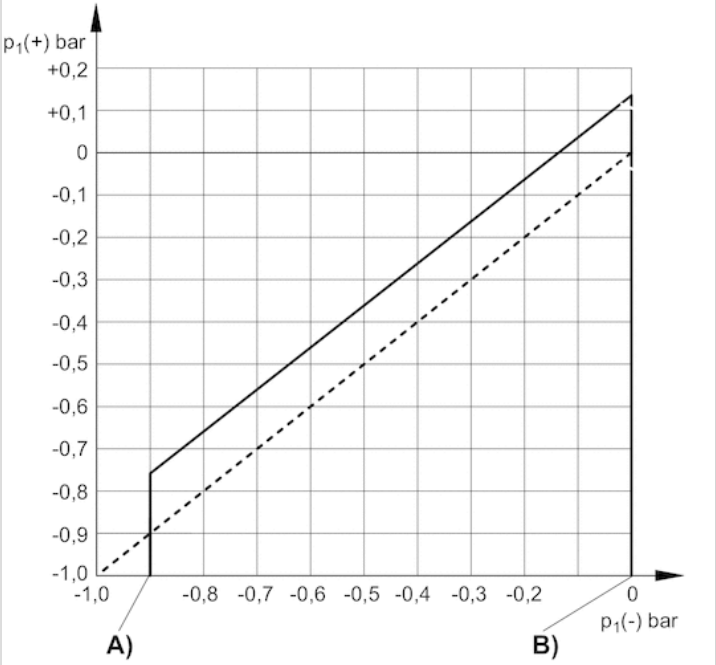
Fig. 2



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

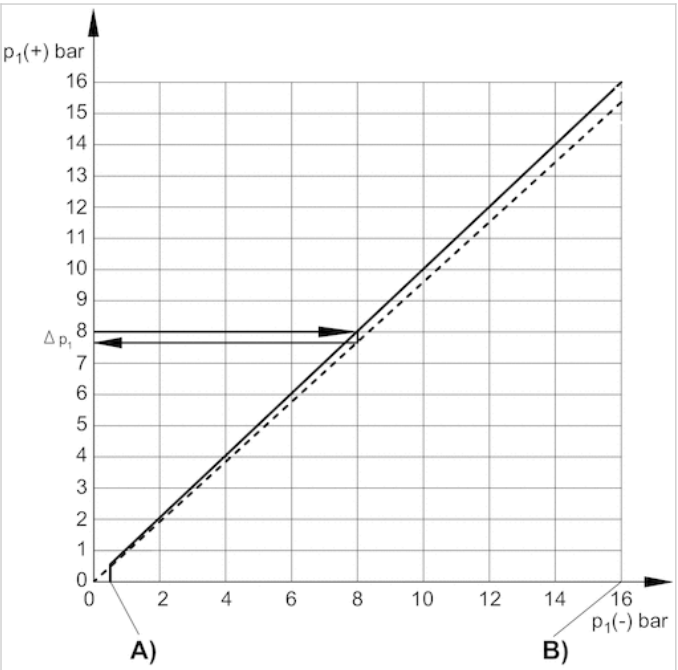
Diagrams

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



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

differential switching pressure characteristic curve (02 - 16 bar)



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

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

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

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

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

1) AC

2) DC

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

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

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

1) AC

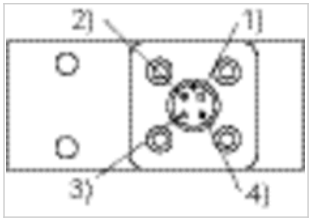
2) DC

3) cos ≈ 0,7°

4) L/R ≈ 10 ms

Pin assignments

Pin assignments



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

QR1-S standard series

- Straight fitting
- External thread
- G 1/2
- push-in fitting
- Ø 8, Ø 10, Ø 12, Ø16, Ø 14
- 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
R412005001	G 1/2	Ø 8	10 piece	0.114 lbs
2121010120	G 1/2	Ø 10	10 piece	0.128 lbs
2121012120	G 1/2	Ø 12	10 piece	0.125 lbs
R412005006	G 1/2	Ø16	10 piece	0.147 lbs
2121014120	G 1/2	Ø 14	10 piece	0.141 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).

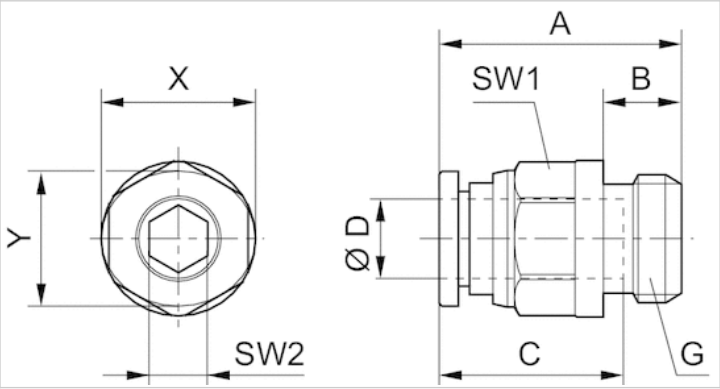
Technical information

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

Material	
Thread	Brass, nickel-plated

Dimensions

Dimensions



Dimensions

Part No.	Port D	Port G	A	B	C	SW1	SW2	X	Y
R412005001	Ø 8	G 1/2	25.7	8.5	18.5	14	6	16	14
2121010120	Ø 10	G 1/2	27.4	8.5	21	17	8	19	17
2121012120	Ø 12	G 1/2	29.5	8.5	23	21	10	23	21
R412005006	Ø16	G 1/2	36.3	8.5	25.5	24	10	27	24
2121014120	Ø 14	G 1/2	25.6	8.5	24.6	24	11	25	23

QR1-S standard series

- Elbow fitting
- External thread
- G 1/2
- push-in fitting
- Ø 8, Ø 10, Ø 12, Ø 14, Ø16
- 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
R412005093	G 1/2	Ø 8	10 piece	0.108 lbs
2122010120	G 1/2	Ø 10	10 piece	0.111 lbs
2122012120	G 1/2	Ø 12	10 piece	0.124 lbs
2122014120	G 1/2	Ø 14	5 piece	0.146 lbs
R412005098	G 1/2	Ø16	5 piece	0.168 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).

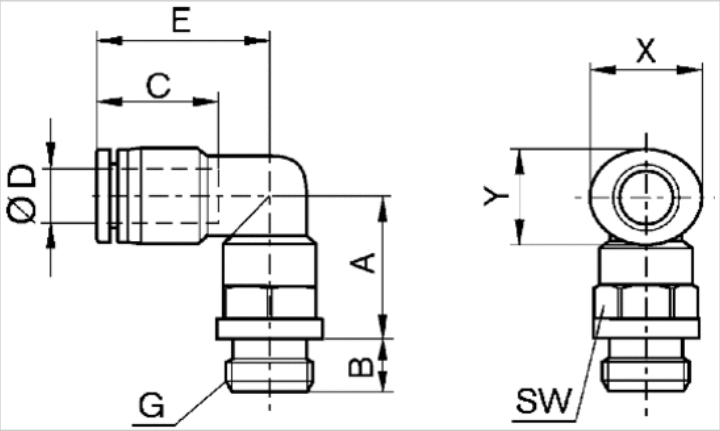
Technical information

Material	
Material	nickel-plated
Housing	Polybutyleneterephthalate
Seal	Acrylonitrile butadiene rubber
Tooth lock washer	Stainless steel
Release ring	Polyoxymethylene

Material	
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
R412005093	Ø 8	G 1/2	12.5	8.5	18.5	22.6	24	16	14
2122010120	Ø 10	G 1/2	14.1	8.5	21	27	24	19	14
2122012120	Ø 12	G 1/2	15.8	8.5	22.5	29.2	24	23	21
2122014120	Ø 14	G 1/2	17.1	8.5	24.6	32.1	24	25	23
R412005098	Ø16	G 1/2	18.2	8.5	24.8	33.3	24	27	24

Series QR2-S, standard

- Straight fitting
- External thread
- G 1/2
- push-in fitting
- Ø 12, Ø 14, Ø16
- 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.
1823373054	G 1/2	Ø 12	5 piece	0.106 lbs	Fig. 1
1823373055	G 1/2	Ø 14	5 piece	0.141 lbs	Fig. 1
R412007955	G 1/2	Ø16	1 piece	0.159 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

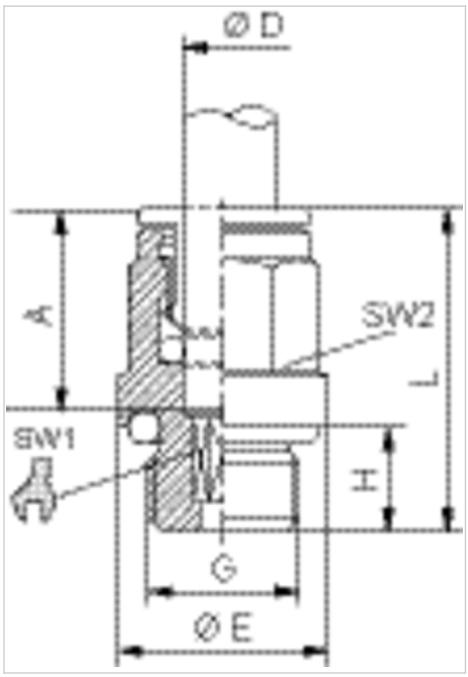
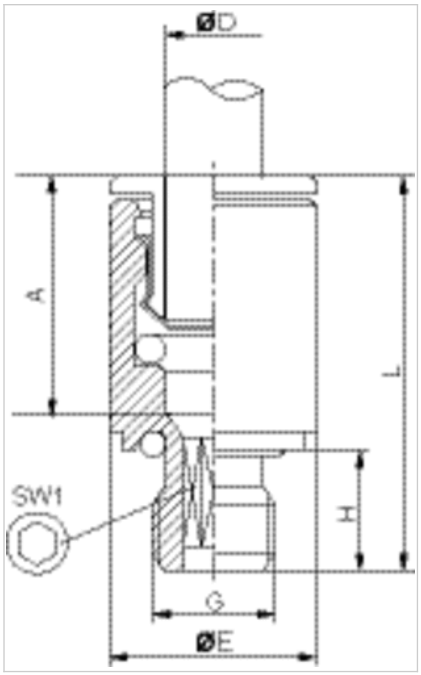


Fig. 2



Dimensions

Part No.	Port D	Port G	Ø E	H	L	A*	SW 1	SW 2	Fig.
1823373054	Ø 12	G 1/2	24	11	31	20	10	18	Fig. 1
1823373055	Ø 14	G 1/2	24	11	34	22	12	21	Fig. 1
R412007955	Ø16	G 1/2	24	11	37	12	24	-	Fig. 1

* Insertion depth

Series QR2-S, standard

- Elbow fitting, rotatable
- External thread
- G 1/2
- push-in fitting
- Ø 10, Ø 12, Ø 14, Ø16
- 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
R412007589	G 1/2	Ø 10	5 piece	0.101 lbs
1823391840	G 1/2	Ø 12	5 piece	0.143 lbs
1823391841	G 1/2	Ø 14	5 piece	0.154 lbs
R412007956	G 1/2	Ø16	1 piece	0.185 lbs

Weight per piece

Technical information

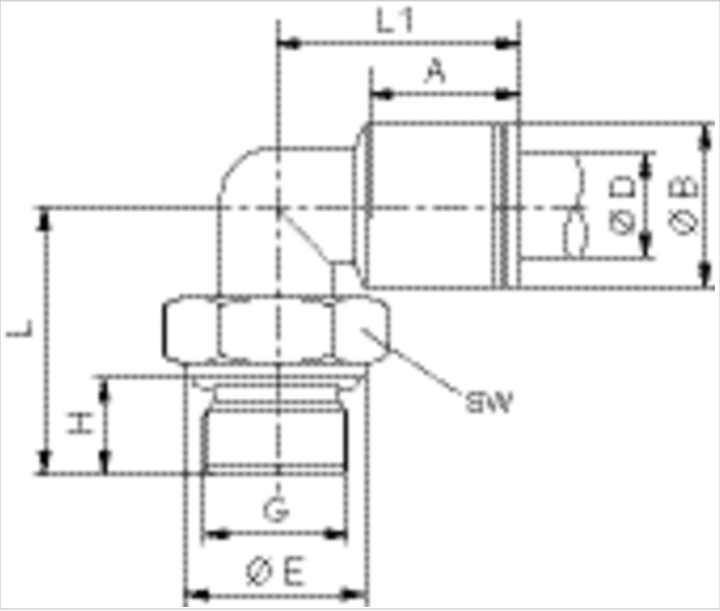
The series QR1 (plastic) and QR2 (metal) can not be combined
Thread seal with captive O-ring

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
R412007589	Ø 10	G 1/2	15	25	11	30	27	19	16
1823391840	Ø 12	G 1/2	17	25	11	33.5	28	20	20
1823391841	Ø 14	G 1/2	20	25	11	33.5	31	22	20
R412007956	Ø16	G 1/2	23	25	11	38	33	23.5	20

* Insertion depth

Series NU2

- Swivel banjo connection 1-fold
- External thread
- G 3/4, G 1
- plug-in with tube nut
- Ø 18
- 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
1823391807	G 3/4	Ø 18	1 piece	0.458 lbs
1823391808	G 1	Ø 18	1 piece	0.608 lbs

Weight per piece

Technical information

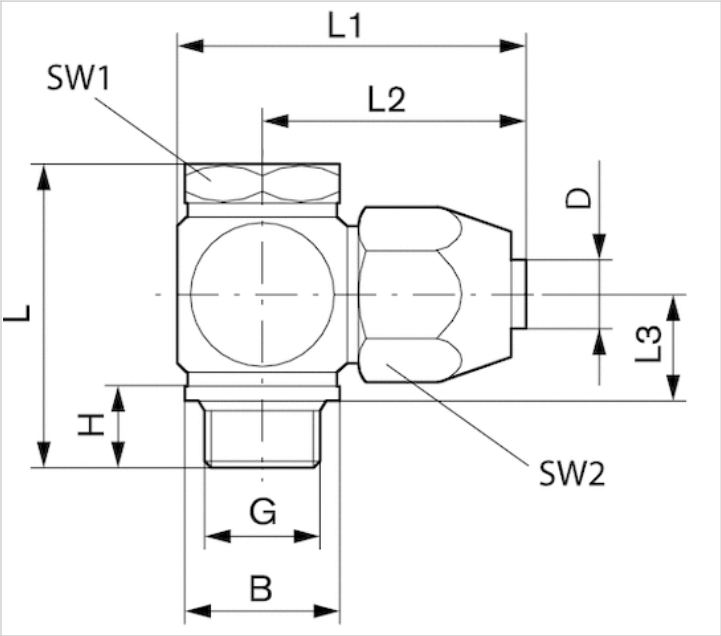
For further information about assembling and tolerances of adaptable tubing can be found in the “Technical information” document (available in the MediaCentre).

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
1823391807	Ø 18	G 3/4	33	18.5	66	69	51	25	32	41
1823391808	Ø 18	G 1	40	20.5	70	77	55	25	41	41

Connection D = inside diameter of the tubing to be used

Double nipple, Series PE5

- External thread

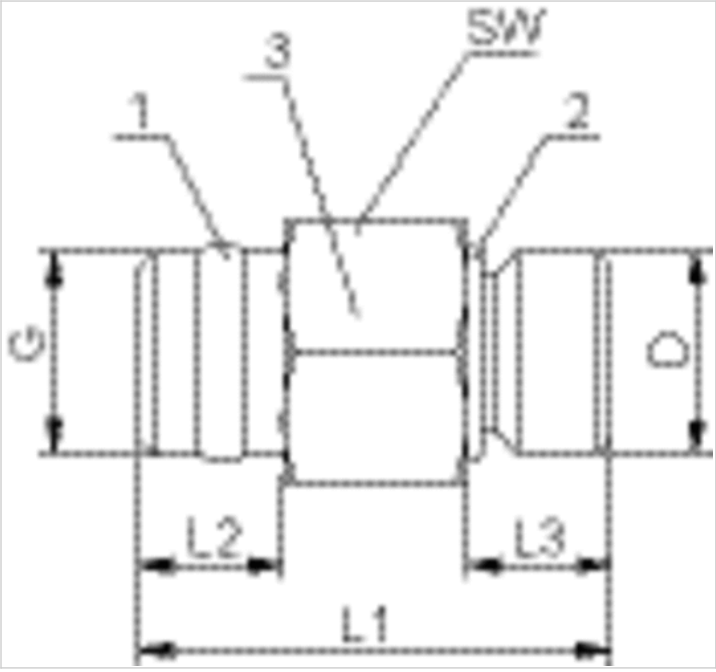
Weight 0.088 lbs

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

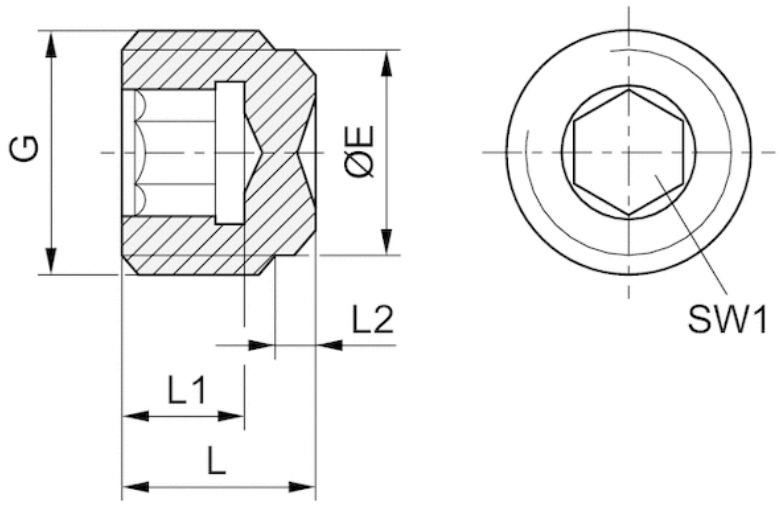
Part No.	Port G	Delivery unit
1823462004	G 1/8	10 piece
1823462003	G 1/4	10 piece

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

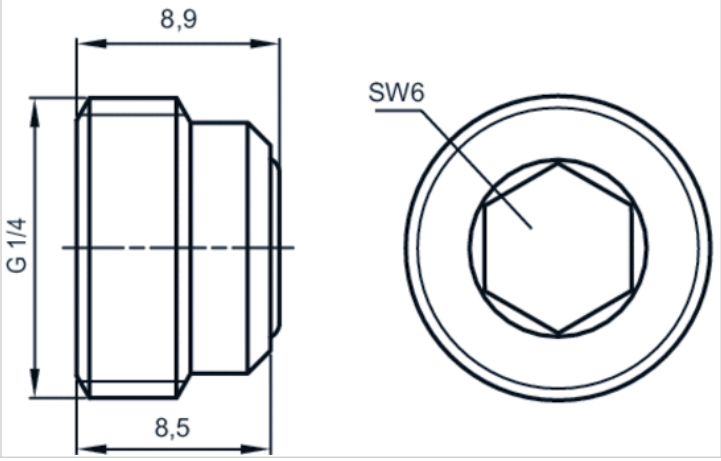
Technical data

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



Reducing nipple

- External thread
- G 1/2, G 3/4, G 1
- Internal thread
- G 1/4, G 3/8, G 1/2
- FPT-S-RDZ

Working pressure min./max.	0 ... 870 psi
Ambient temperature min./max.	-4 ... 158 °F

Technical data

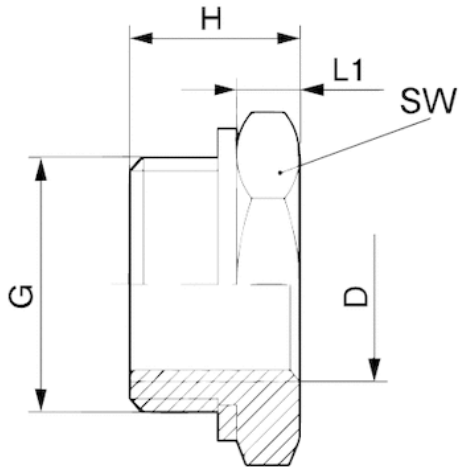
Part No.	Port G	Port D	Delivery unit
1823391300	G 1/2	G 1/4	5 piece
1823391014	G 1/2	G 3/8	5 piece
1823391028	G 3/4	G 1/2	5 piece
1823391304	G 1	G 1/2	2 piece

Technical information

Material	
Material	Brass, nickel-plated
Seal	Polyvinyl chloride, hard

Dimensions

Dimensions

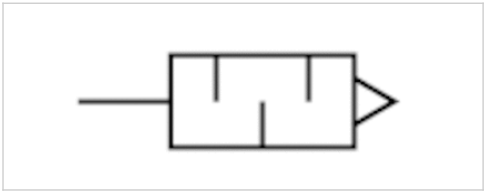


Dimensions

Part No.	Port D	Port G	H	L1	SW
1823391300	G 1/4	G 1/2	15.5	5.5	24
1823391014	G 3/8	G 1/2	15.5	5.5	24
1823391028	G 1/2	G 3/4	19	7	32
1823391304	G 1/2	G 1	23	8	41

Silencers, series SI1

- Sintered bronze



Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Sound pressure level	90 dB
Weight	0.176 lbs
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000003	G 1/2	7.1 Cv	2 piece

Weight per piece

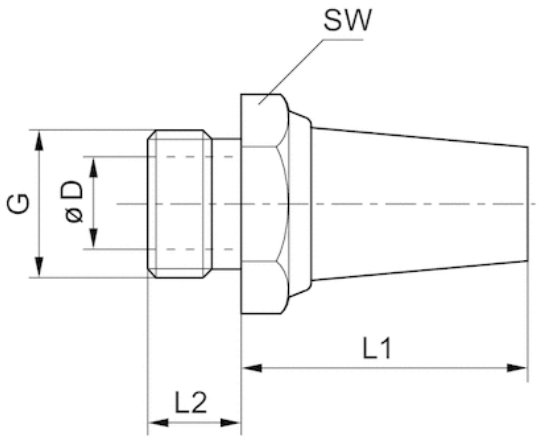
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

Technical information

Material	
Silencers	Sintered bronze
Thread	Brass

Dimensions

Dimensions

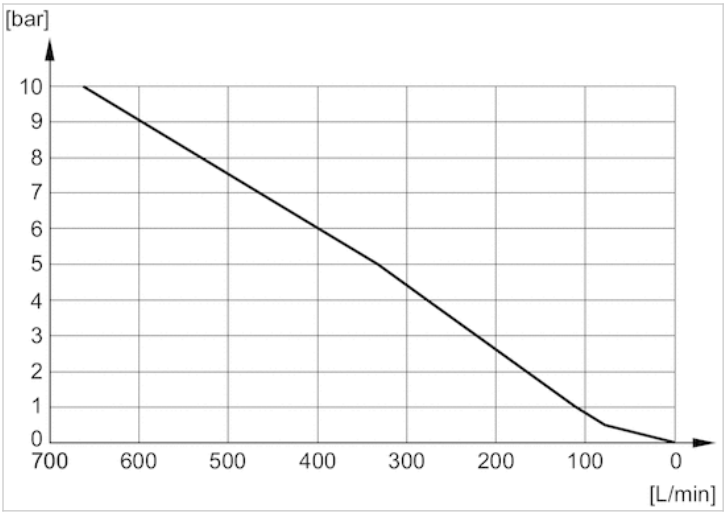


Dimensions

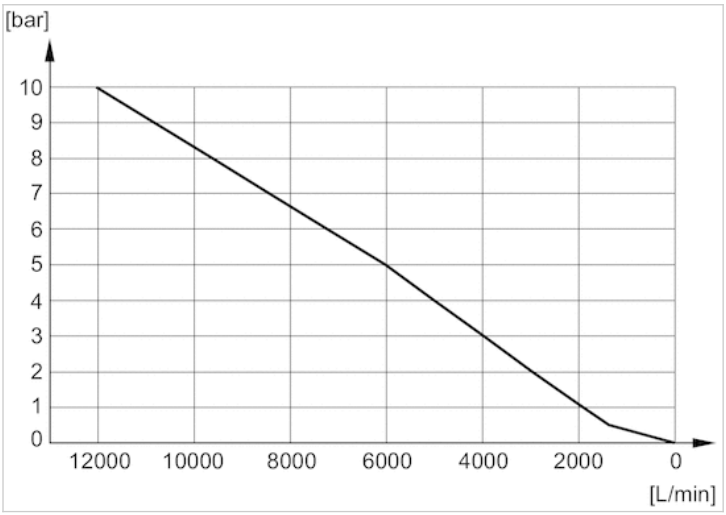
Part No.	Port G	SW	Ø D	L1	L2
1827000003	G 1/2	27	14.5	44	12

Diagrams

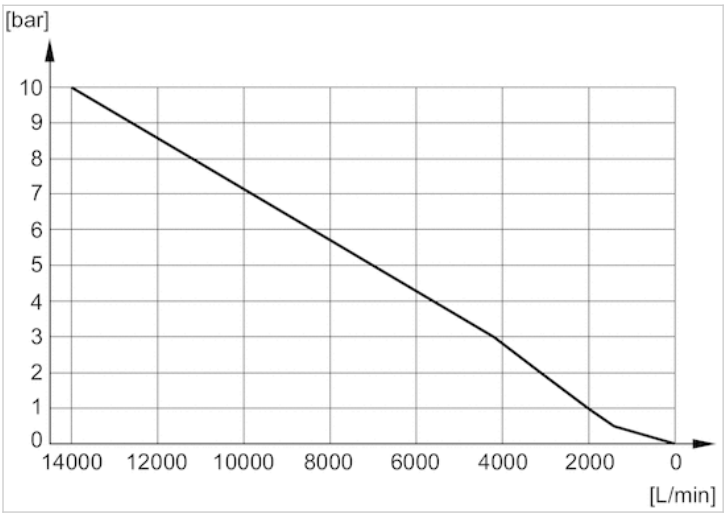
Flow diagram 1827000006



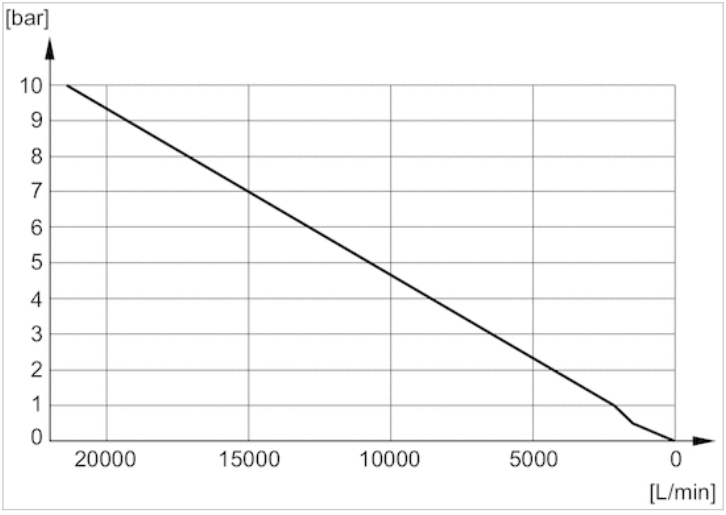
Flow diagram 1827000003



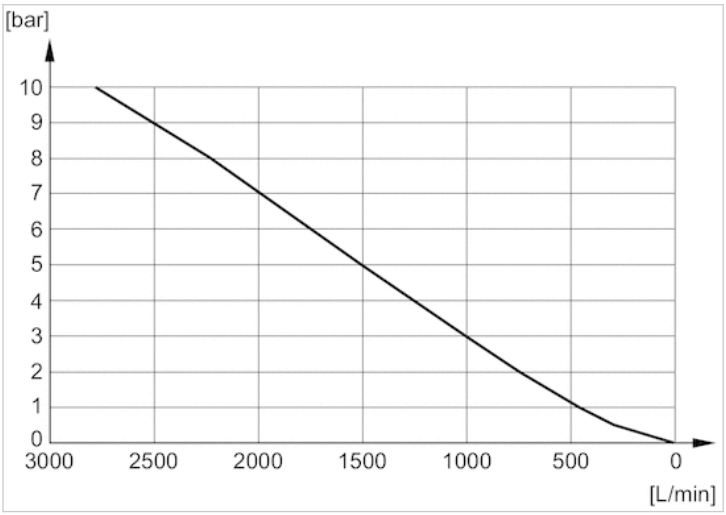
Flow diagram 1827000004



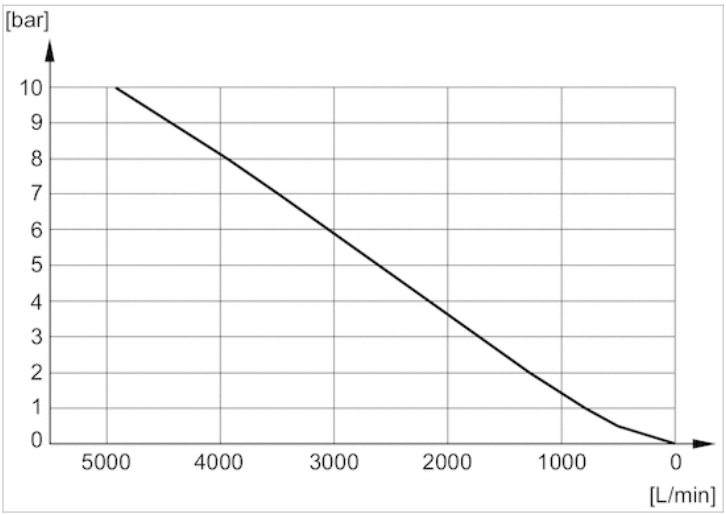
Flow diagram 1827000005



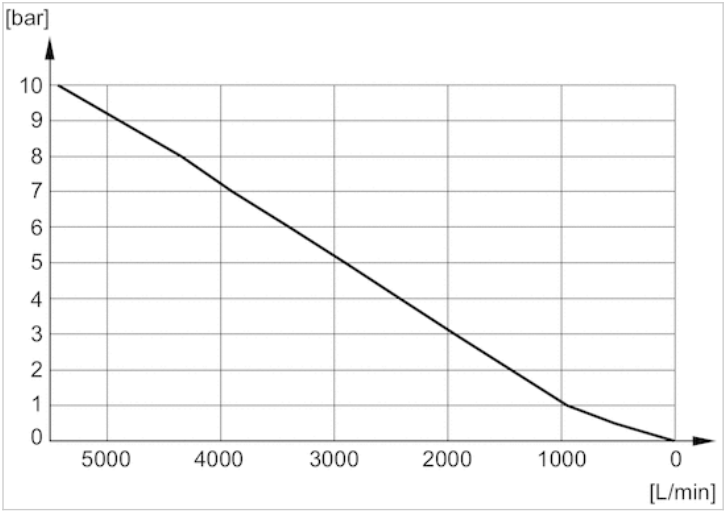
Flow diagram 5324001110



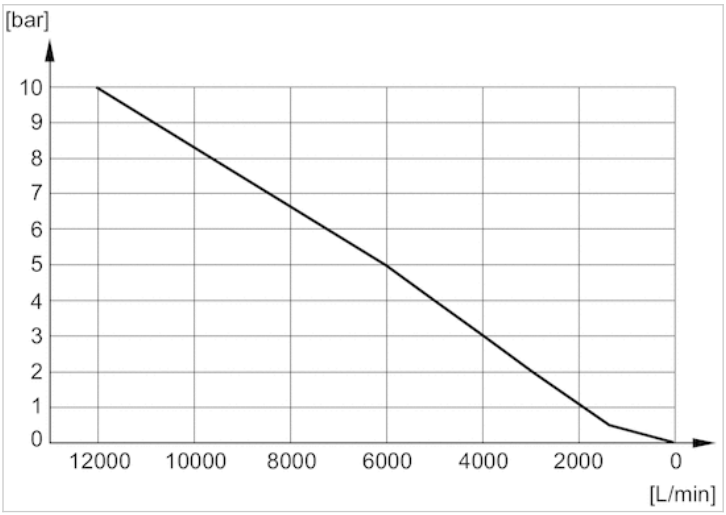
Flow diagram 5324001170



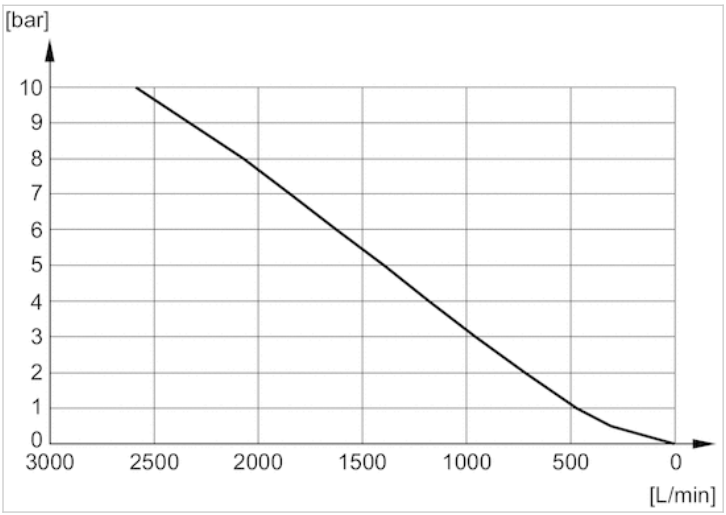
Flow diagram 5324001120



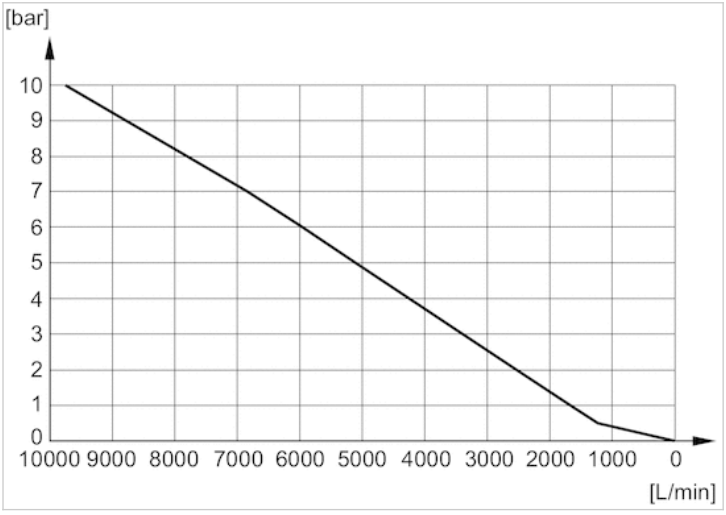
Flow diagram 5324001140



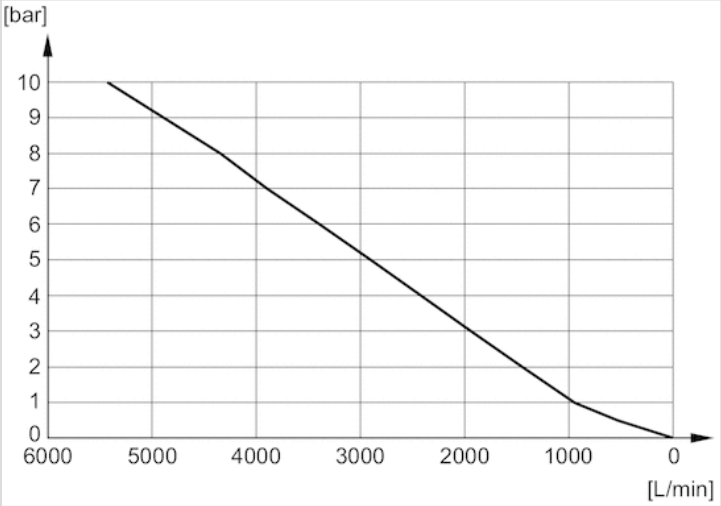
Flow diagram 1827000000



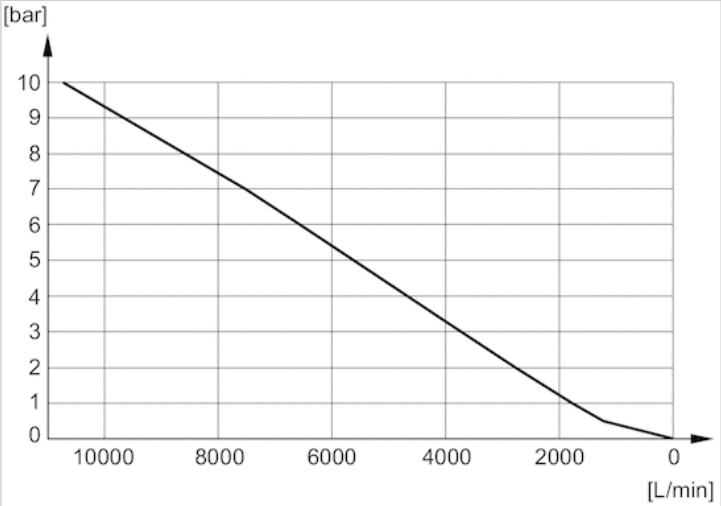
Flow diagram R412004817



Flow diagram 1827000001

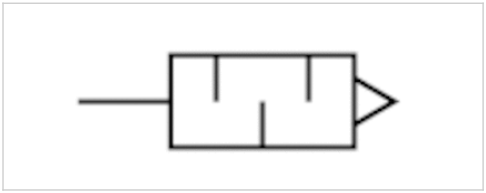


Flow diagram 1827000002



Silencers, series SI1

- Stainless steel



Working pressure min./max.	0 ... 174 psi
Ambient temperature min./max.	-4 ... 302 °F
Medium	Compressed air
Sound pressure level	95 dB
Weight	0.106 lbs
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
R412010084	G 1/2	1.92 Cv	1 piece

Weight per piece

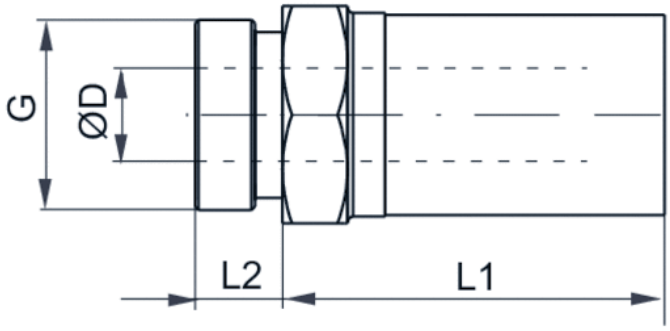
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

Technical information

Material	
Silencers	Stainless steel
Thread	Stainless steel

Dimensions

Dimensions

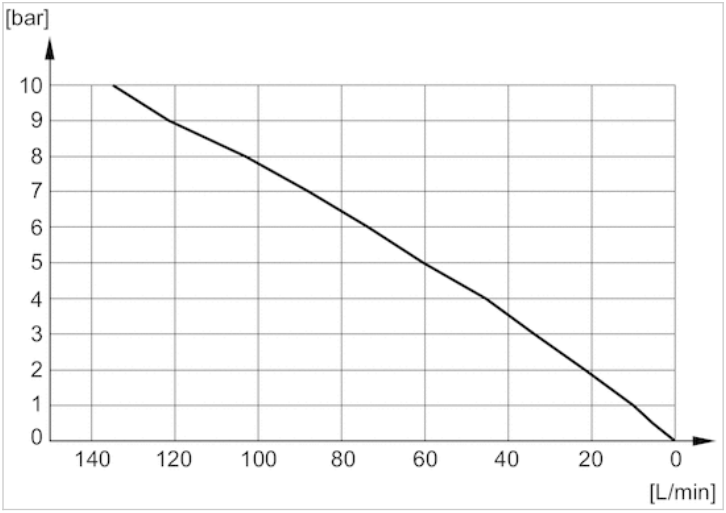


Dimensions

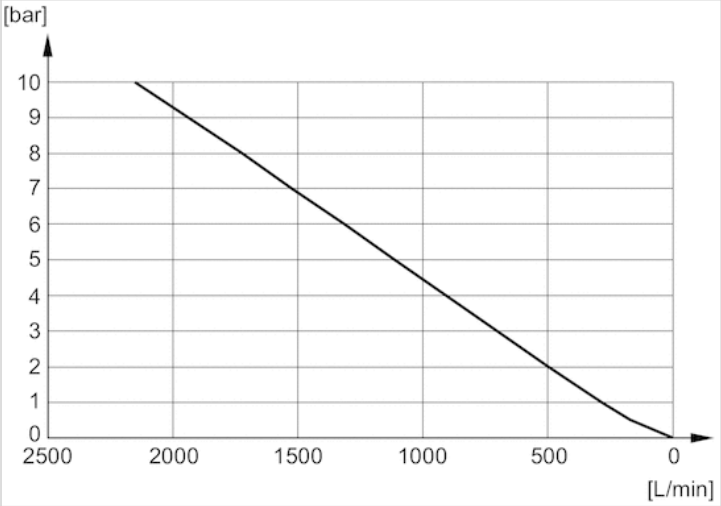
Part No.	Port G	SW	Ø D	L1	L2
R412010084	G 1/2	24	15.3	39.5	9.5

Diagrams

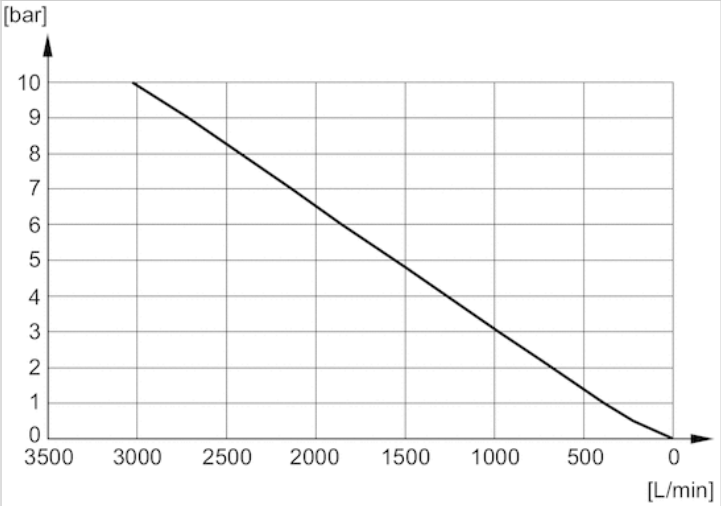
Flow diagram R412010090



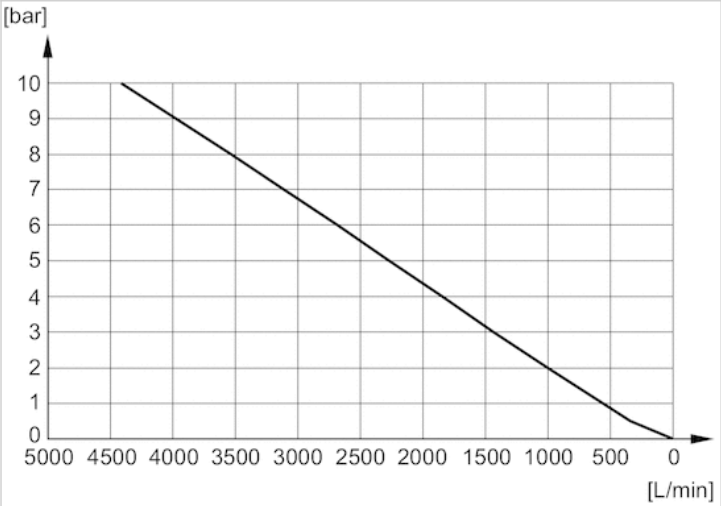
Flow diagram R412010081



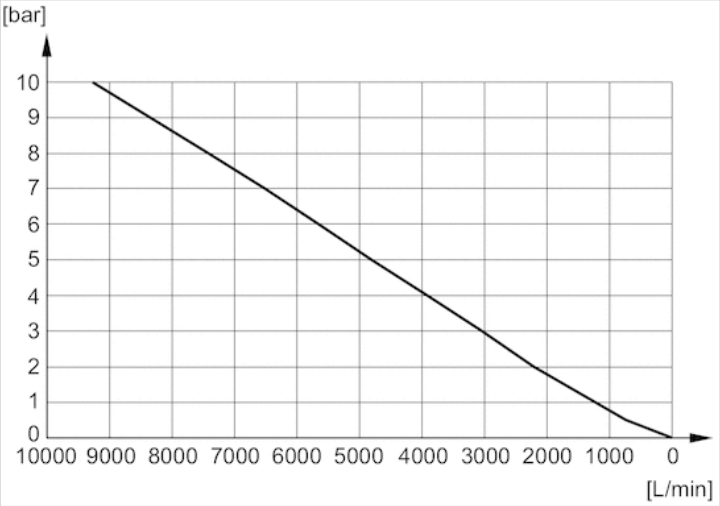
Flow diagram R412010082



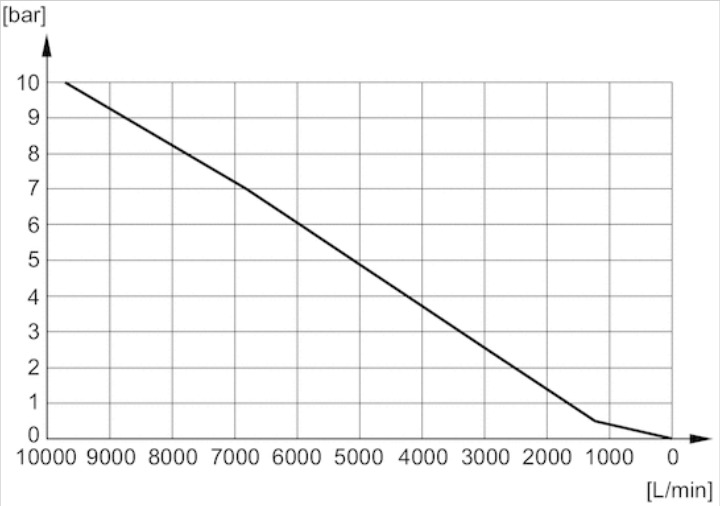
Flow diagram R412010083



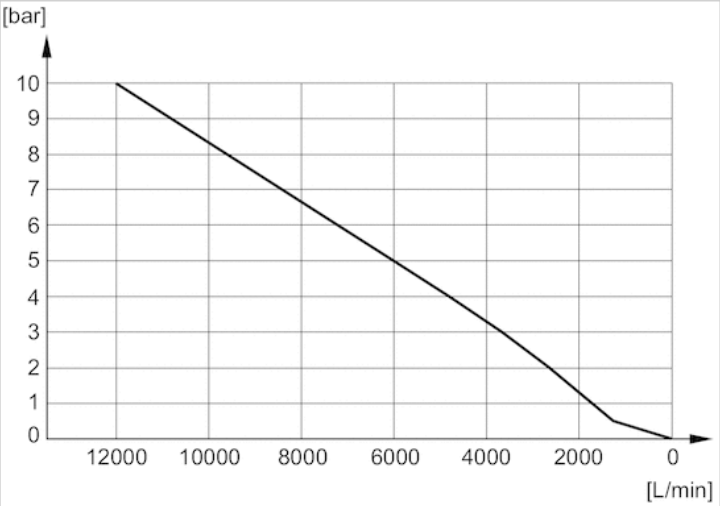
Flow diagram R412010084



Flow diagram R412010085

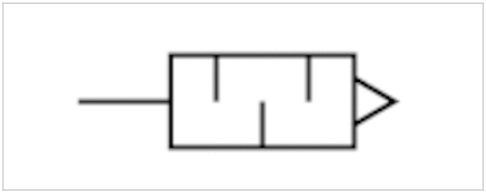


Flow diagram R412010086



Silencers, series SI1

- Sintered bronze



Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Sound pressure level	85 dB
Weight	0.077 lbs
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000035	G 1/2	2 Cv	2 piece

Weight per piece

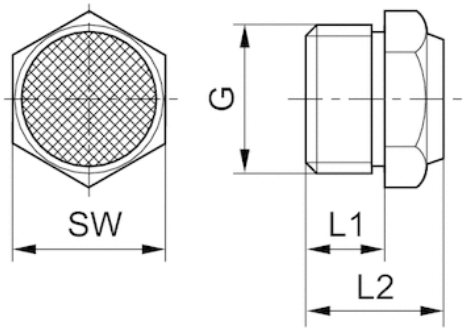
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

Technical information

Material	
Silencers	Sintered bronze
Thread	Brass

Dimensions

Dimensions



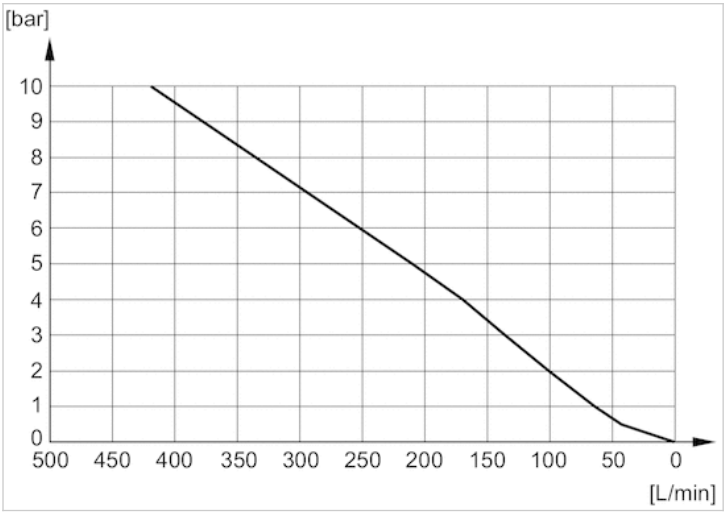
Dimensions

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

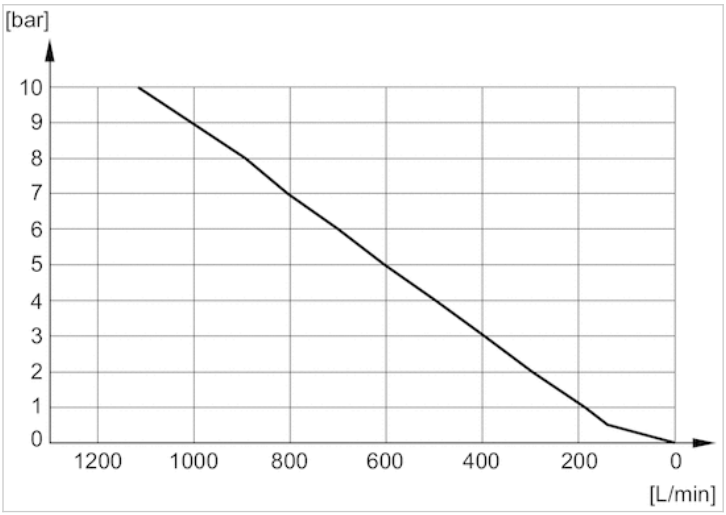
Sound pressure level measured at 6 bar at 1 m distance

Diagrams

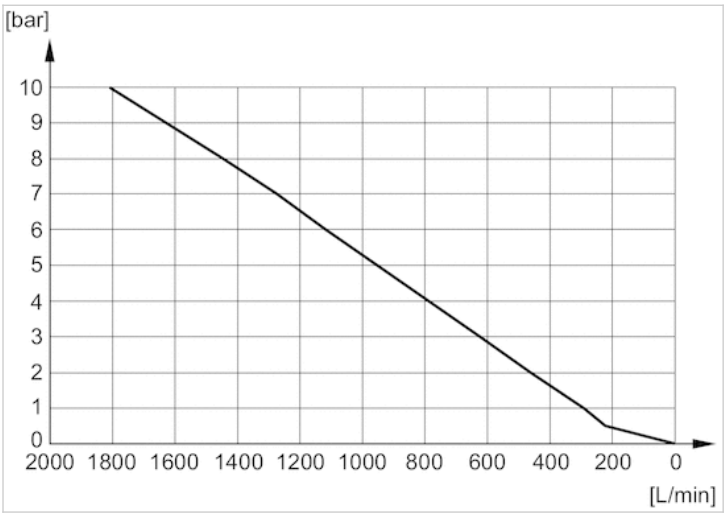
Flow diagram 1827000032



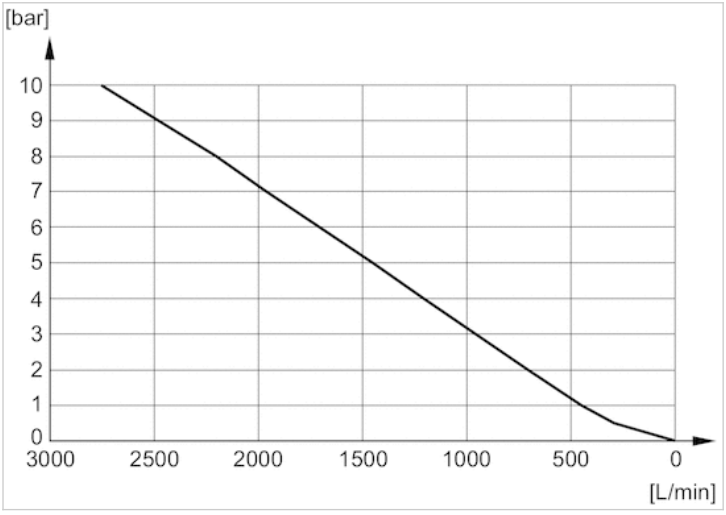
Flow diagram 1827000031



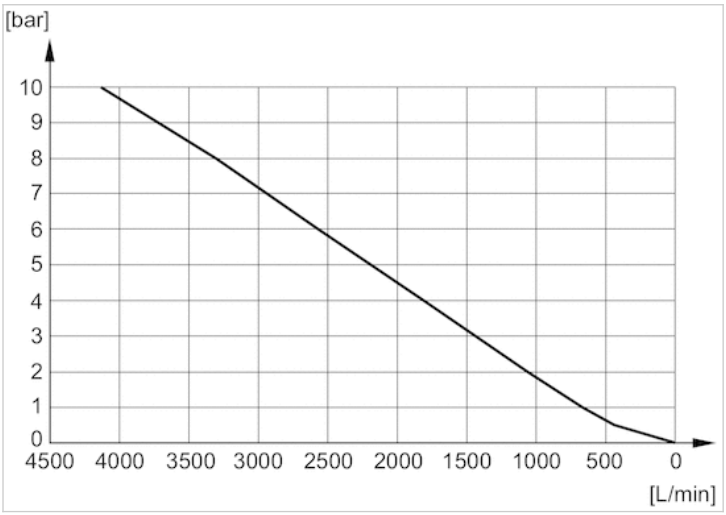
Flow diagram 1827000033



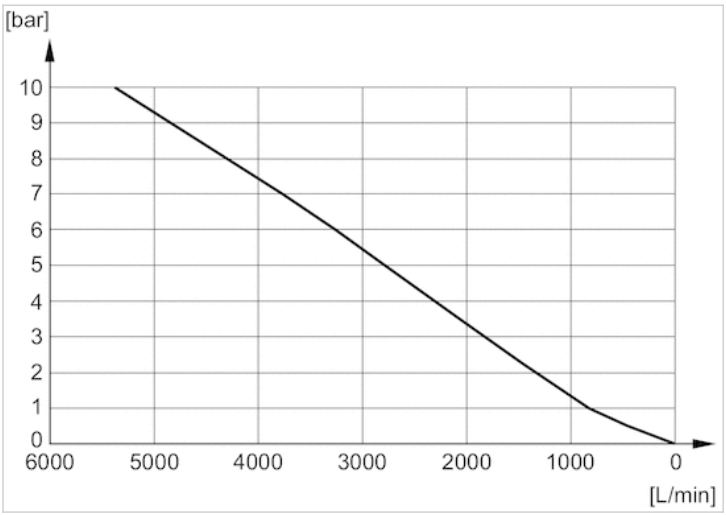
Flow diagram 1827000034



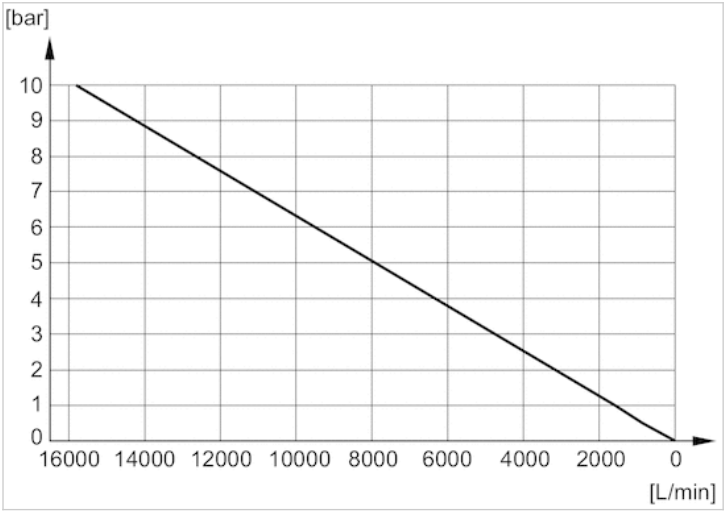
Flow diagram 1827000035



Flow diagram 8145003400

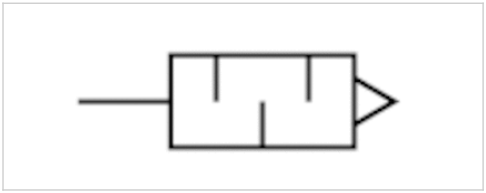


Flow diagram 8145001000



Silencers, series SI1

- Polyethylene



Working pressure min./max.	0 ... 145 psi
Ambient temperature min./max.	-13 ... 176 °F
Medium	Compressed air
Sound pressure level	88 dB
Weight	0.029 lbs
Comment	Flow characteristic curves can be found under “Diagrams”.

Technical data

Part No.	Compressed air connection	Flow	Delivery unit
		Qn	
1827000022	G 1/2	7 Cv	1 piece

Weight per piece

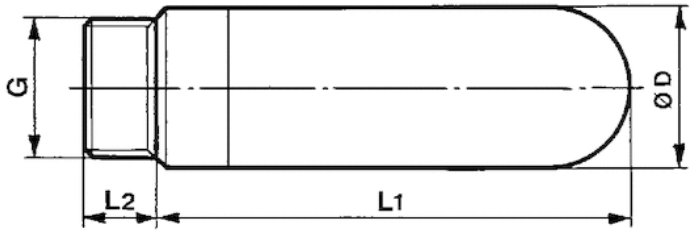
Nominal flow Qn at p1 = 87 psi (absolute) freely discharged. Sound pressure level measured at 87 psi against atmosphere at 3.281 ft. distance.

Technical information

Material	
Silencers	Polyethylene
Thread	Polyethylene

Dimensions

Dimensions

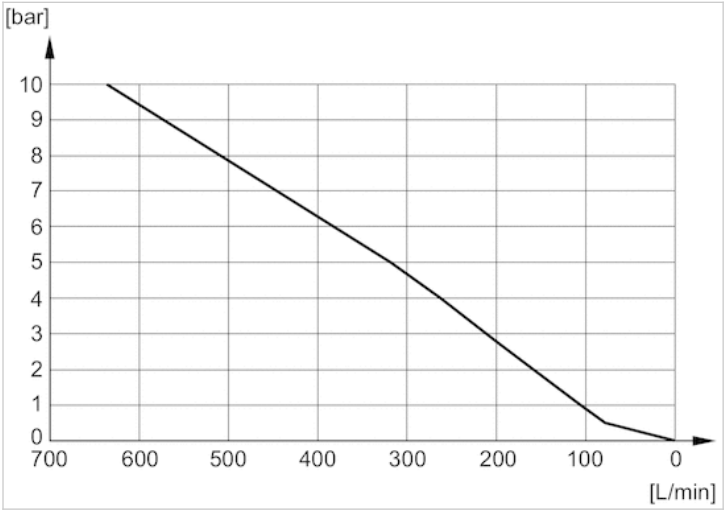


Dimensions

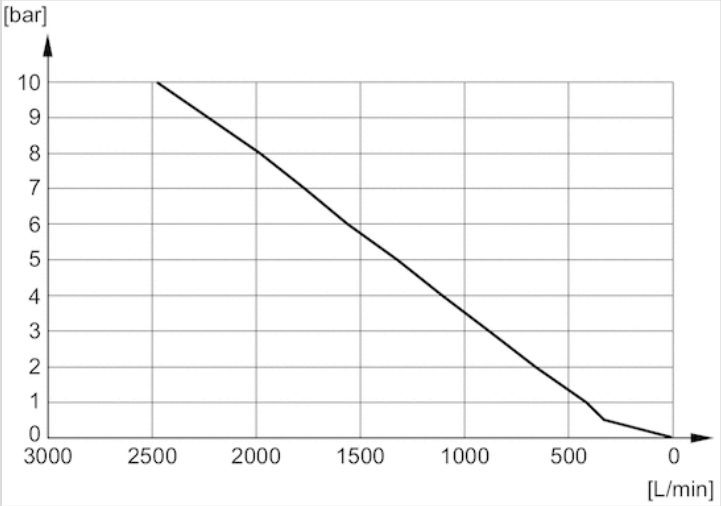
Part No.	Port G	Ø D	L1	L2
1827000022	G 1/2	23.3	66.5	11

Diagrams

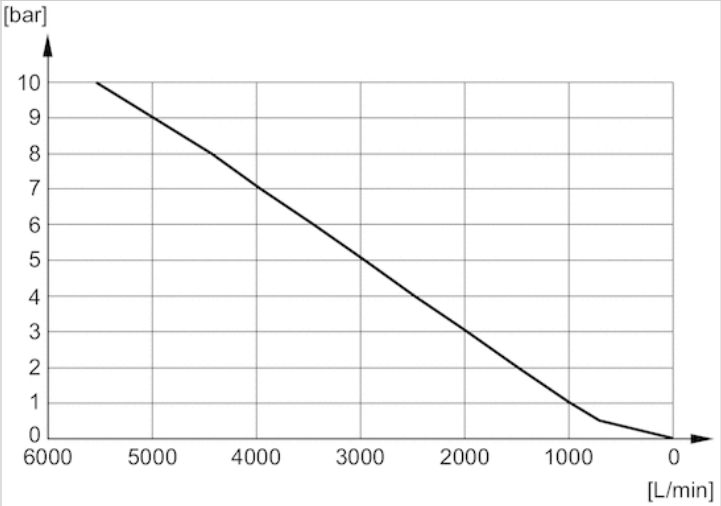
Flow diagram 1827000018



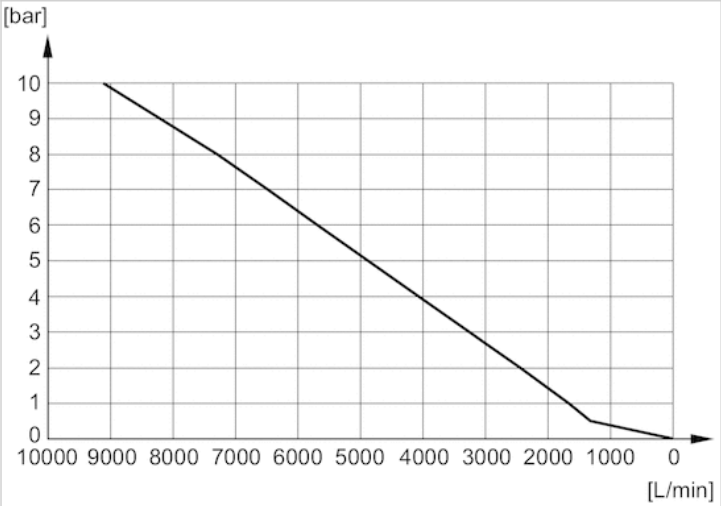
Flow diagram 1827000019



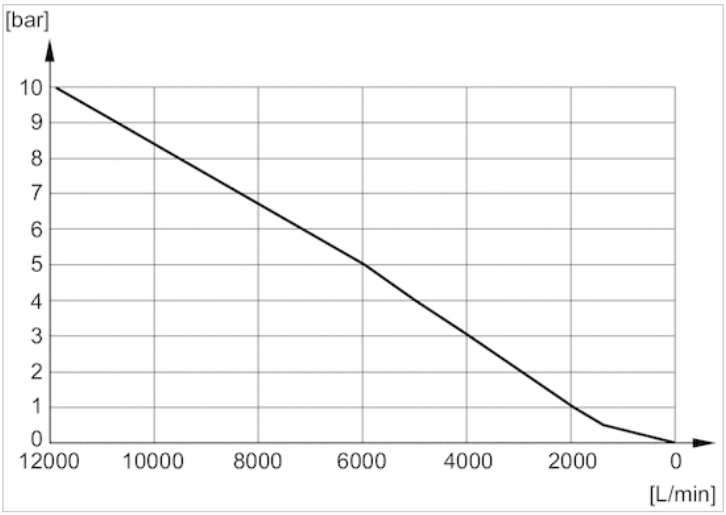
Flow diagram 1827000020



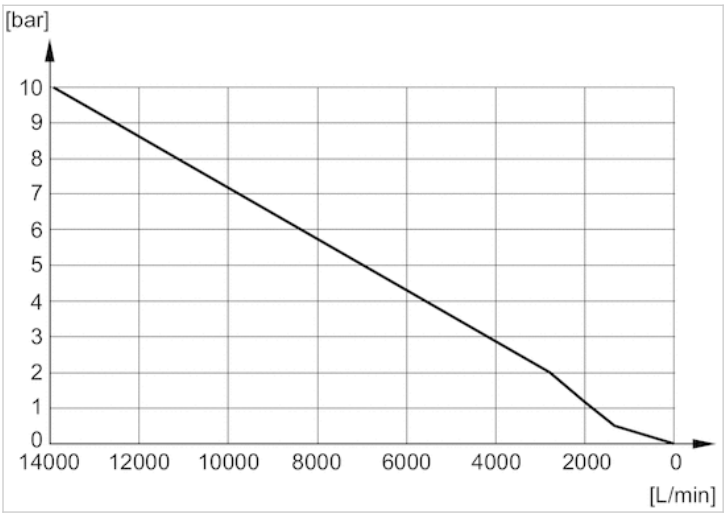
Flow diagram 1827000021



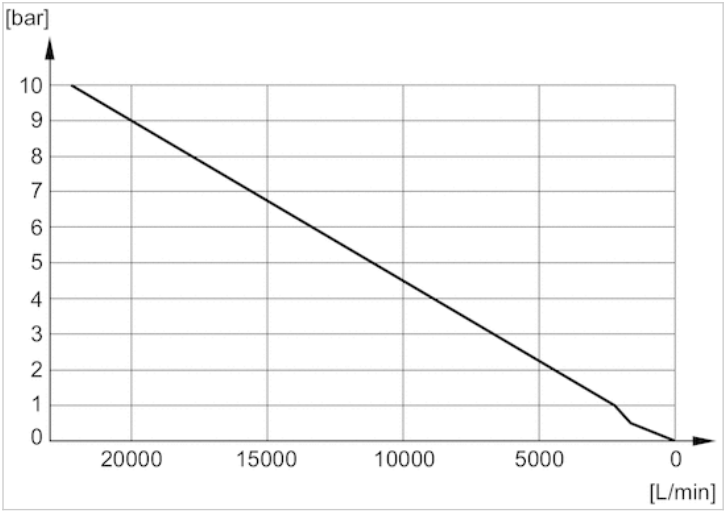
Flow diagram 1827000022



Flow diagram 1827000023

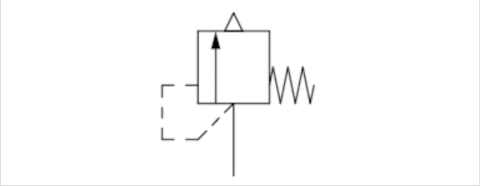


Flow diagram 1827000024



Series RV1

- Qn 1▸2 = 1.13-16.3 Cv
- thread-in
- External thread
- G 1/2
- Uncollected



Version	Poppet valve
Certificates	CE declaration of conformity
Working pressure min./max.	0 ... 290 psi
Opening pressure of valve	See table below
Ambient temperature min./max.	-4 ... 212 °F
Medium	Compressed air

Technical data

Part No.	Port 1	Opening pressure of valve	Flow
			Qn 1▸2
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

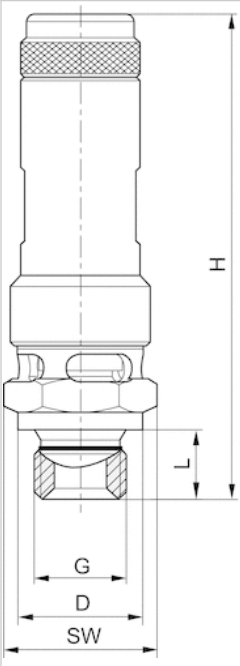
The specified performance values are achieved at a 10% (PE 14.5 psi , 1.45 psi) pressure increase, measured with compressed air at 68 °F .

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
R412007542	G 1/2	26	78	12	27	50	15
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

Part No.	Port G	Ø D	H	L	SW	T [Nm]	NW
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