NL1

AVENTICS™

AVENTICS Series NL1 Air Preparation Units

EMERSON™

Series NL1

The AVENTICS Series NL maintenance units are suitable for all areas: as individual components or as assembled maintenance units, for centralized or decentralized compressed air preparation, in compact or powerful versions, for use in high or low temperatures. This line offers a complete, customizable compressed air preparation technology. It includes an option to combine every component in the Series to achieve the desired function, making it possible to adjust the components precisely to the application requirements.

- Easy-to-assemble
- Manual, semi-automatic or fully-automatic condensate drains available
- Transparent reservoirs available
- Bayonet catches ensure easy maintenance

Product overview

Product overview

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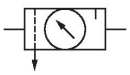
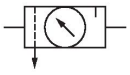
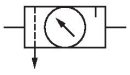
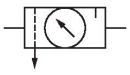
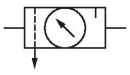
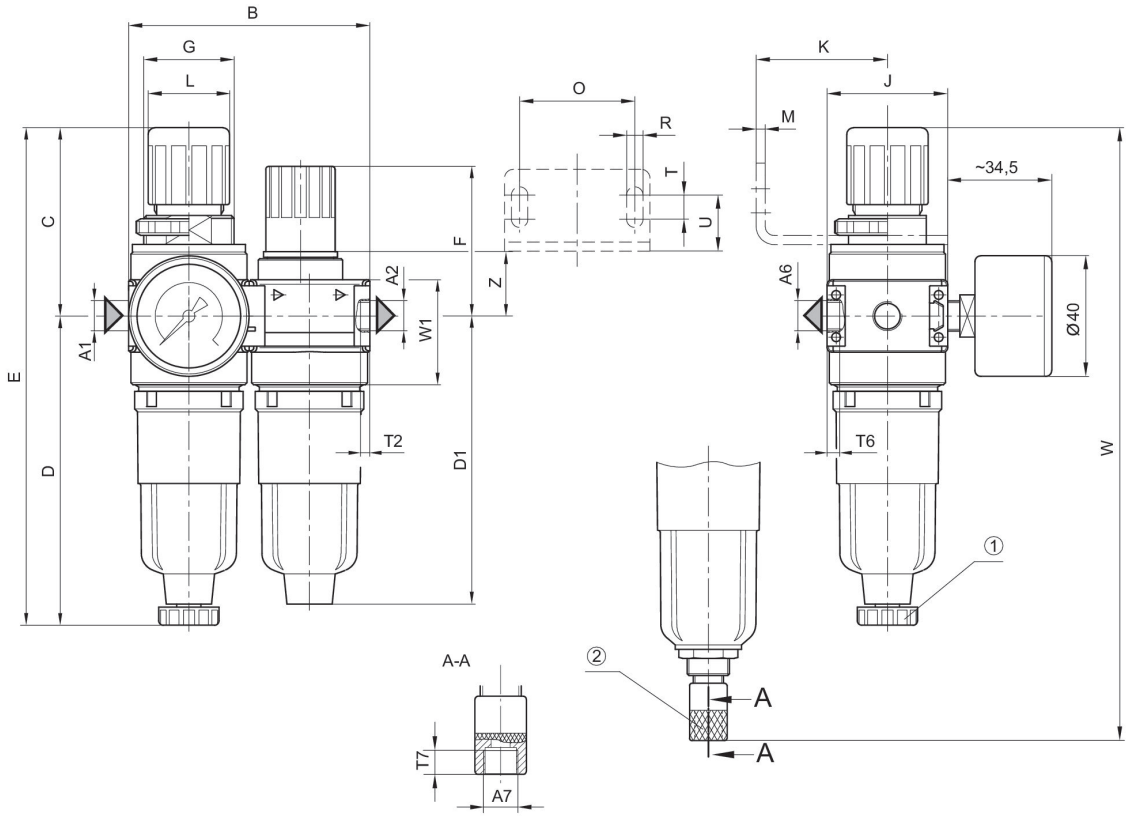
Air preparation unit, 2-part, Series NL1-ACD

Flow: 750 l/min
Parts: Air preparation units
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 1.5 bar ... 16 bar

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Protec-tive guard	Part No.
	G 1/8	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10	Polyamide	0821300727
	G 1/8	semi-auto-matic, open without pres-sure	Metal reser-voir without window	0.5	10	Polyamide	0821300728
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10	Polyamide	0821300730
	G 1/4	semi-auto-matic, open without pres-sure	Metal reser-voir without window	0.5	10	Polyamide	0821300731
	G 1/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	0.5	10	Polyamide	0821300732

Dimensions



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

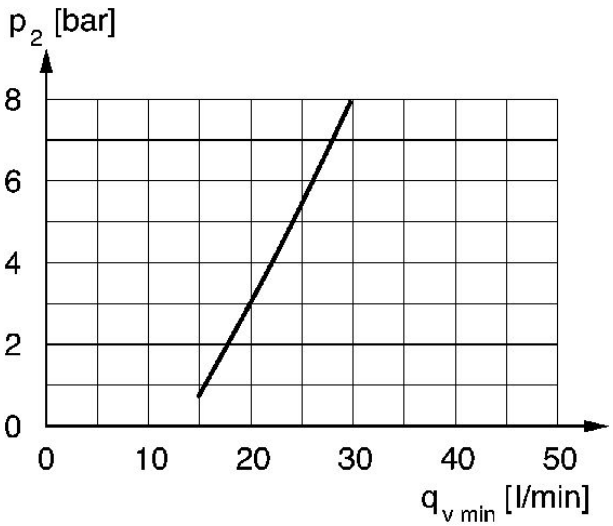
Dimensions in mm

Part No.	A1	A2	A6	A7	B	C	D	D1	E
0821300727	G 1/8	G 1/8	G 1/8	G 1/8	80	62.5	102.5	95.5	165
0821300728	G 1/8	G 1/8	G 1/8	G 1/8	80	62.5	102.5	95.5	165
0821300730	G 1/4	G 1/4	G 1/8	G 1/8	80	62.5	102.5	95.5	165
0821300731	G 1/4	G 1/4	G 1/8	G 1/8	80	62.5	102.5	95.5	165
0821300732	G 1/4	G 1/4	G 1/8	G 1/8	80	62.5	102.5	95.5	165

Part No.	F	G	J	K	L	M	O	R	T
0821300727	50	M30x1,5	40	43.5	27	3	38	5.4	8
0821300728	50	M30x1,5	40	43.5	27	3	38	5.4	8
0821300730	50	M30x1,5	40	43.5	27	3	38	5.4	8
0821300731	50	M30x1,5	40	43.5	27	3	38	5.4	8
0821300732	50	M30x1,5	40	43.5	27	3	38	5.4	8

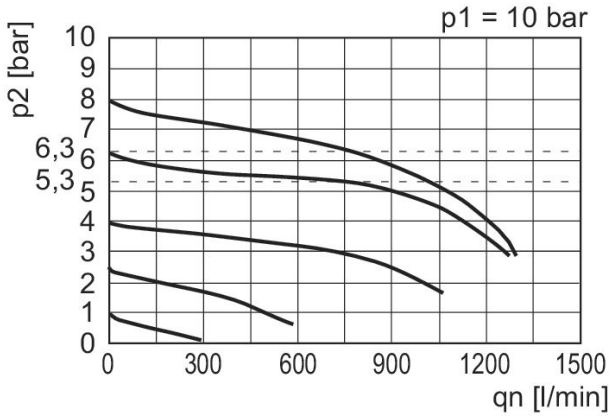
Part No.	T2	T6	T7	U	W	W1	Z
0821300727	8	6	8.5	18.5	203	35	24.5
0821300728	8	6	8.5	18.5	203	35	24.5
0821300730	8	6	8.5	18.5	203	35	24.5
0821300731	8	6	8.5	18.5	203	35	24.5
0821300732	8	6	8.5	18.5	203	35	24.5

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



p2 = secondary pressure qvmin. = min. nominal flow

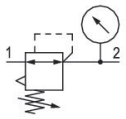
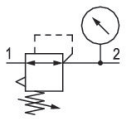
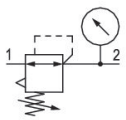
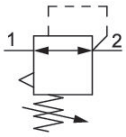
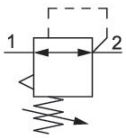
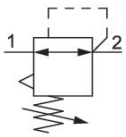
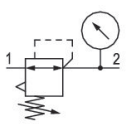
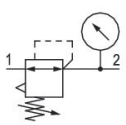
Flow rate characteristic, p2 = 0,05 - 7 bar

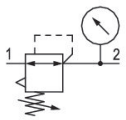
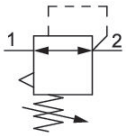
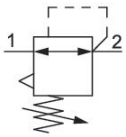
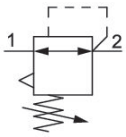


p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

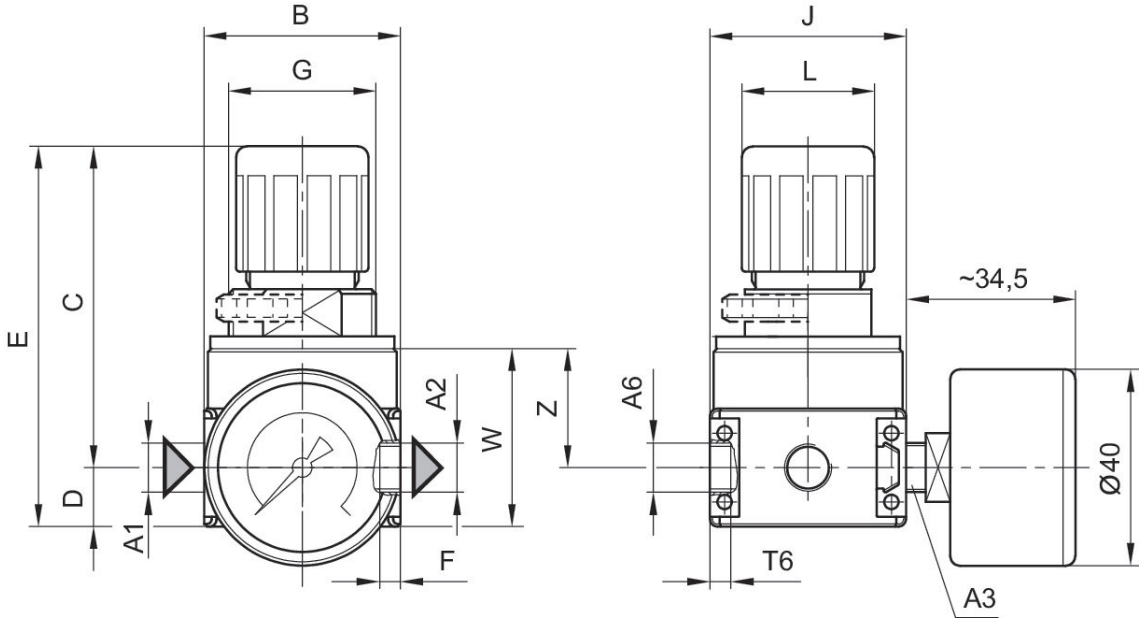
Pressure regulator, Series NL1-RGS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
Flow: 1000 l/min
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 1/8	1000	0.5, 16	0.1	3	with pressure gauge	0821302728
	G 1/8	1000	0.5, 16	0.2	6	with pressure gauge	0821302729
	G 1/8	1000	0.5, 16	0.5	10	with pressure gauge	0821302730
	G 1/8	1000	0.5, 16	0.1	3		0821302725
	G 1/8	1000	0.5, 16	0.2	6		0821302726
	G 1/8	1000	0.5, 16	0.5	10		0821302727
	G 1/4	1000	0.5, 16	0.1	3	with pressure gauge	0821302734
	G 1/4	1000	0.5, 16	0.2	6	with pressure gauge	0821302735

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 1/4	1000	0.5, 16	0.5	10	with pressure gauge	0821302736
	G 1/4	1000	0.5, 16	0.1	3		0821302731
	G 1/4	1000	0.5, 16	0.2	6		0821302732
	G 1/4	1000	0.5, 16	0.5	10		0821302733

Dimensions



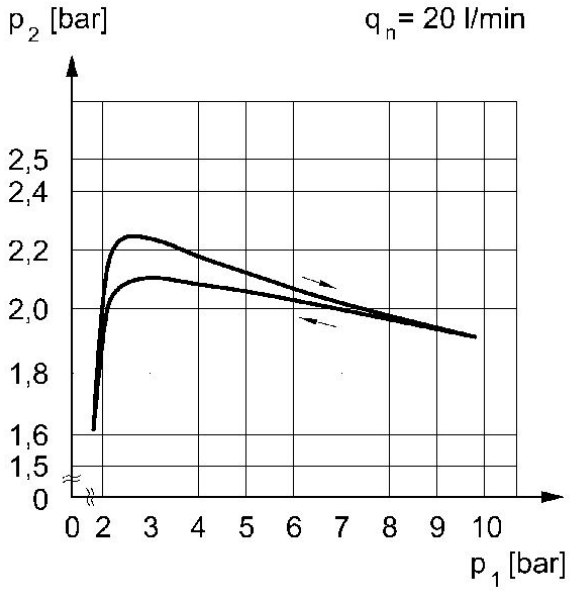
A1 = input
A2 = output
A3 = pressure gauge connection
A6 = ventilation port

Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	G
0821302728	G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302729	G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302730	G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302725	G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302726	G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302727	G 1/8	G 1/8	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302734	G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302735	G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302736	G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302731	G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302732	G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5
0821302733	G 1/4	G 1/4	G 1/8	G 1/8	40	65.5	12	77.5	M30x1,5

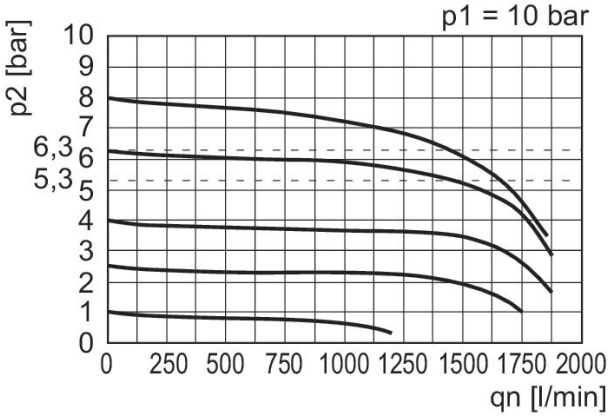
Part No.	J	L	T2	T6	W	Z
0821302728	40	27	8	6	36.2	24.2
0821302729	40	27	8	6	36.2	24.2
0821302730	40	27	8	6	36.2	24.2
0821302725	40	27	8	6	36.2	24.2
0821302726	40	27	8	6	36.2	24.2
0821302727	40	27	8	6	36.2	24.2
0821302734	40	27	8	6	36.2	24.2
0821302735	40	27	8	6	36.2	24.2
0821302736	40	27	8	6	36.2	24.2
0821302731	40	27	8	6	36.2	24.2
0821302732	40	27	8	6	36.2	24.2
0821302733	40	27	8	6	36.2	24.2

Pressure characteristics curve



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

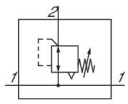
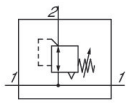
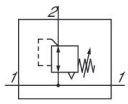
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



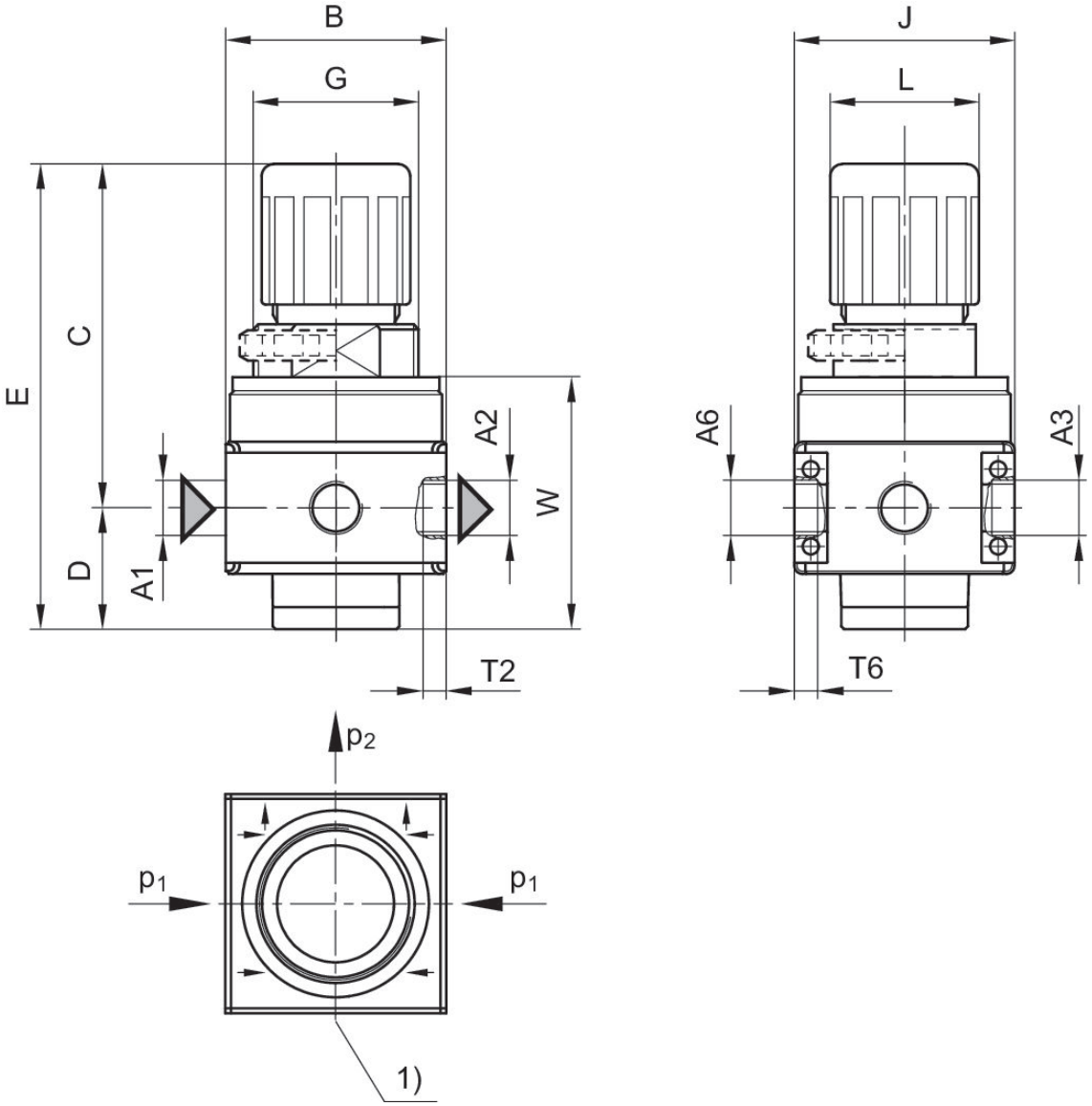
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL1-RGS-...-DS

Mounting orientation: Any
: Can be assembled into blocks
Flow: 1350 l/min
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Part No.
	G 1/4	1350	0.5, 16	0.1	3	0821300711
	G 1/4	1350	0.5, 16	0.2	6	0821300712
	G 1/4	1350	0.5, 16	0.5	10	0821300713

Dimensions



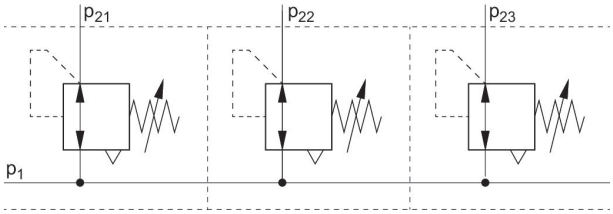
A1 = input
A2 = output
1) Pressure gauge connection
p1 = Working pressure
p2 = Secondary pressure

Dimensions in mm

Part No.	A1	A2	A3	A6	B	C	D	E	G
0821300711	G 1/4	G 1/4	G 1/8	G 1/4	40	62.5	22	84.5	M30x1,5
0821300712	G 1/4	G 1/4	G 1/8	G 1/4	40	62.5	22	84.5	M30x1,5
0821300713	G 1/4	G 1/4	G 1/8	G 1/4	40	62.5	22	84.5	M30x1,5

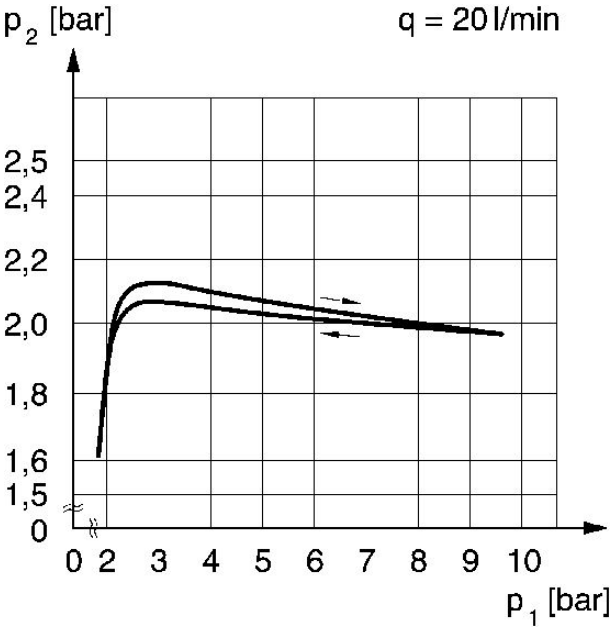
Part No.	J	K	L	M	T2	T6	W
0821300711	40	43.5	27	3	8	6	43.5
0821300712	40	43.5	27	3	8	6	43.5
0821300713	40	43.5	27	3	8	6	43.5

Application example



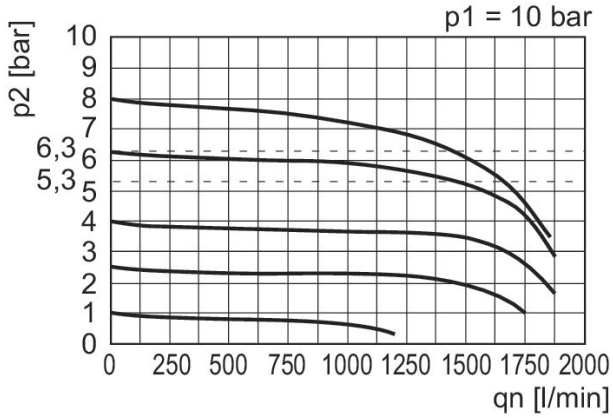
p1 = Working pressure

Pressure characteristics curve



p1 = Working pressure
p2 = Secondary pressure
q = flow rate

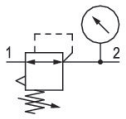
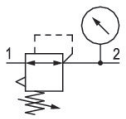
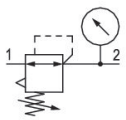
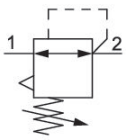
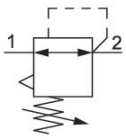
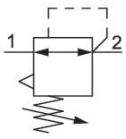
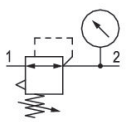
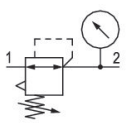
Flow rate characteristic (setting range p2: 0.5 - 10 bar)

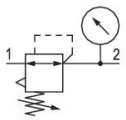
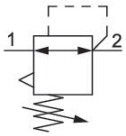
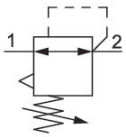
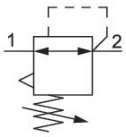


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

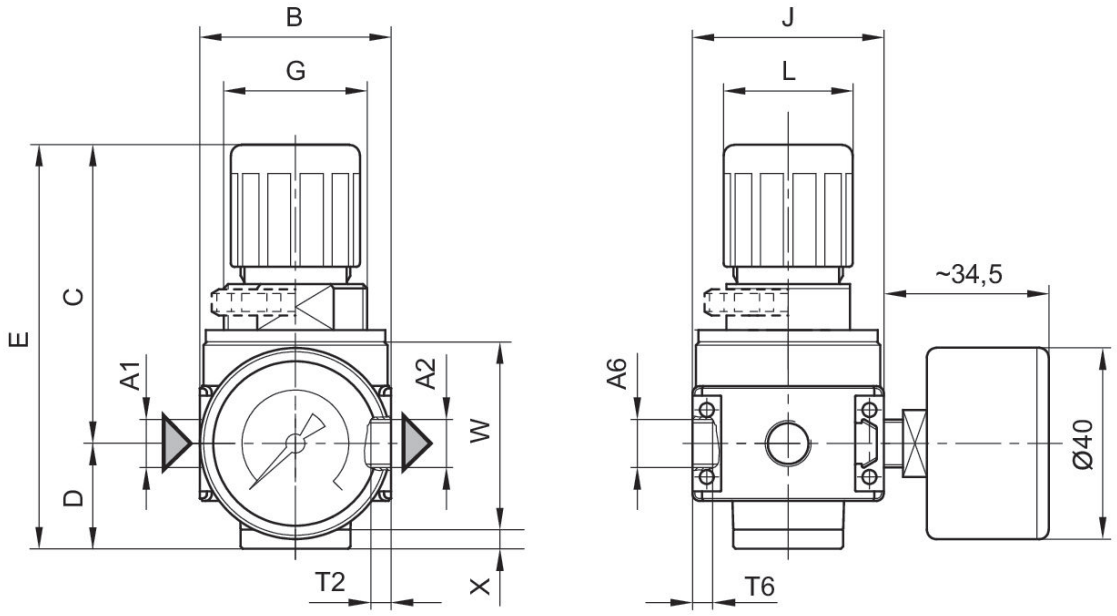
Pressure regulator, Series NL1-RGS

Activation: Mechanical
Actuating element: Pressure regulator, high flow rate
Mounting orientation: Any
: Can be assembled into blocks
Flow: 1350 l/min
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 1/8	1350	0.5, 16	0.1	3	with pressure gauge	0821302708
	G 1/8	1350	0.5, 16	0.2	6	with pressure gauge	0821302709
	G 1/8	1350	0.5, 16	0.5	10	with pressure gauge	0821302710
	G 1/8	1350	0.5, 16	0.1	3		0821302705
	G 1/8	1350	0.5, 16	0.2	6		0821302706
	G 1/8	1350	0.5, 16	0.5	10		0821302707
	G 1/4	1350	0.5, 16	0.1	3	with pressure gauge	0821302714
	G 1/4	1350	0.5, 16	0.2	6	with pressure gauge	0821302715

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 1/4	1350	0.5, 16	0.5	10	with pressure gauge	0821302716
	G 1/4	1350	0.5, 16	0.1	3		0821302711
	G 1/4	1350	0.5, 16	0.2	6		0821302712
	G 1/4	1350	0.5, 16	0.5	10		0821302713

Dimensions



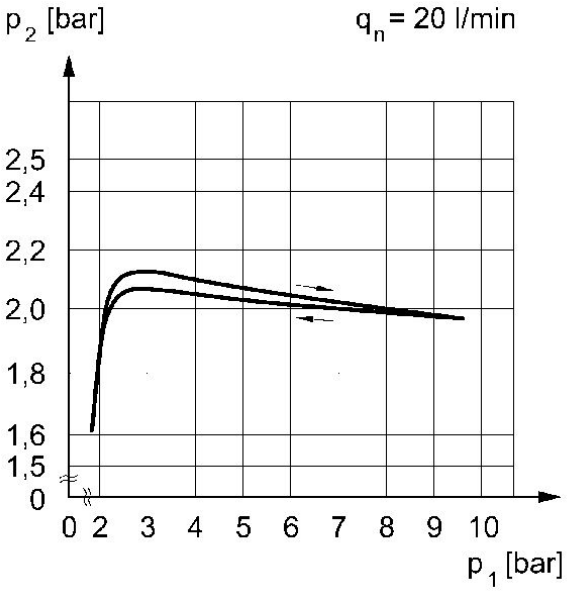
A1 = input
A2 = output
A6 = ventilation port

Dimensions in mm

Part No.	A1	A2	A6	B	C	D	E	G	J
0821302708	G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302709	G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302710	G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302705	G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302706	G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302707	G 1/8	G 1/8	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302714	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302715	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302716	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302711	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302712	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40
0821302713	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40

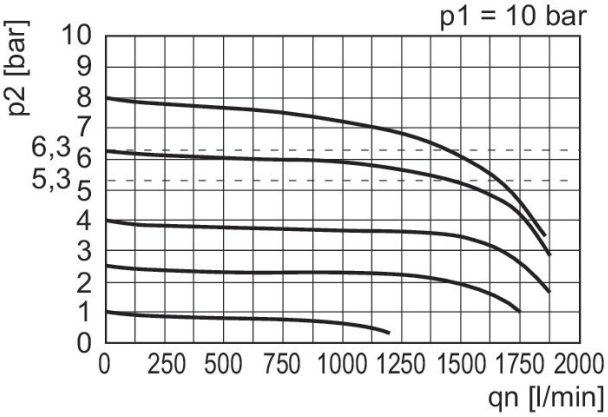
Part No.	L	T2	T6	W	X
0821302708	27	8	6	39.5	4
0821302709	27	8	6	39.5	4
0821302710	27	8	6	39.5	4
0821302705	27	8	6	39.5	4
0821302706	27	8	6	39.5	4
0821302707	27	8	6	39.5	4
0821302714	27	8	6	39.5	4
0821302715	27	8	6	39.5	4
0821302716	27	8	6	39.5	4
0821302711	27	8	6	39.5	4
0821302712	27	8	6	39.5	4
0821302713	27	8	6	39.5	4

Pressure characteristics curve



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

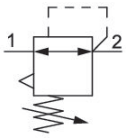
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



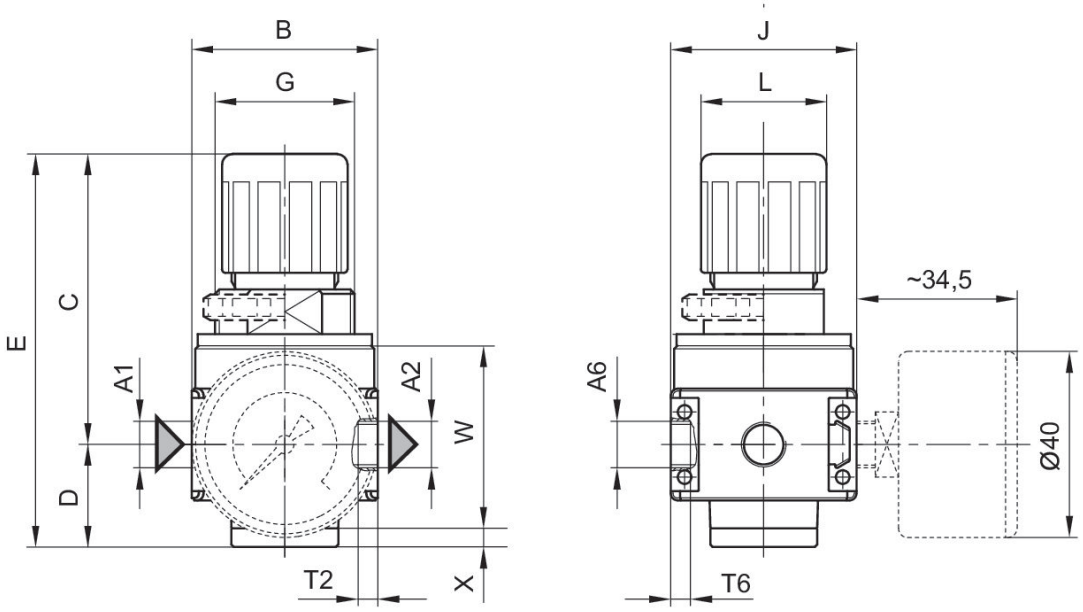
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL1-RGS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
Flow: 1350 l/min
Temperature resistance: -30 °C cold-resistant
Ambient temperature min./max.: -30 °C ... 50 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regula-tion rangep2 [bar]	Max. regula-tion rangep2 [bar]	Part No.
	G 1/4	1350	0.5, 16	0.5	10	R412007620

Dimensions



A1 = input
A2 = output
A6 = ventilation port

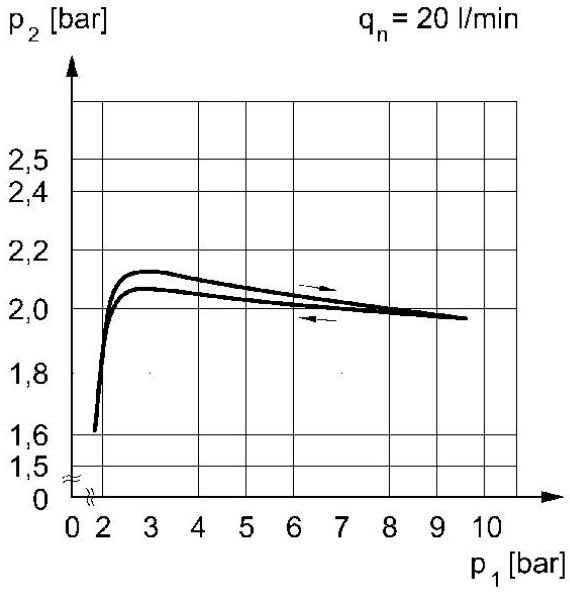
Dimensions in mm

Part No.	A1	A2	A6	B	C	D	E	G	J
R412007620	G 1/4	G 1/4	G 1/8	40	62.5	22	84.5	M30x1,5	40

Part No.	K	L	M	O	R	T	T2	T6	U
R412007620	43.5	27	3	38	5.4	8	8	6	18.5

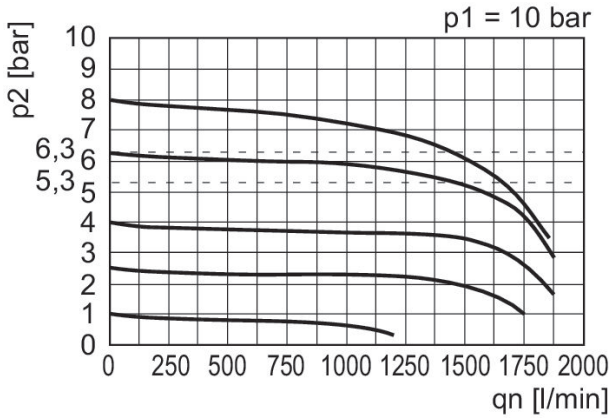
Part No.	W	X
R412007620	39.5	4

Pressure characteristics curve



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

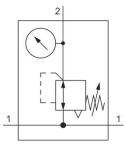
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



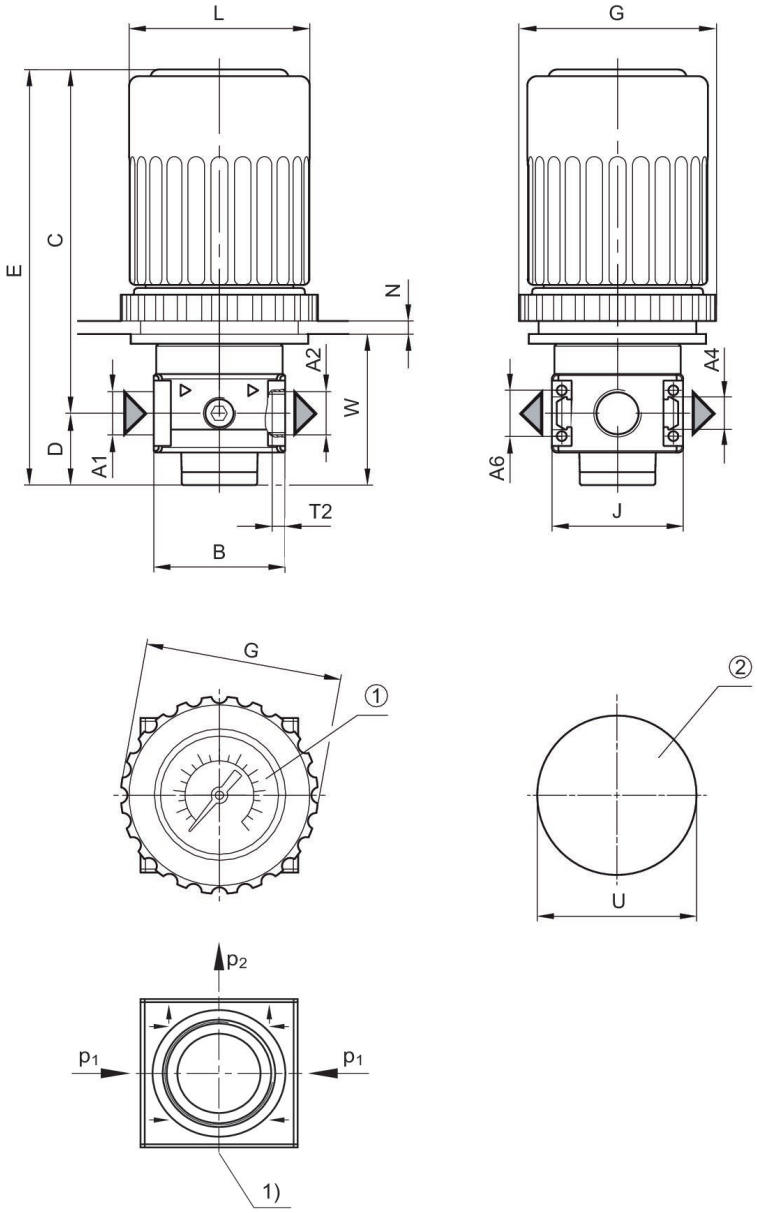
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL1-RGS-...-DS

Activation: Mechanical
Actuating element: Pressure regulator, high flow rate
Mounting orientation: Any
: Can be assembled into blocks
: with pressure gauge in hand wheel
Flow: 1350 l/min
Ambient temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 1/4	1350	0.5, 16	0.2	6	with pressure gauge in hand wheel	0821302743

Dimensions

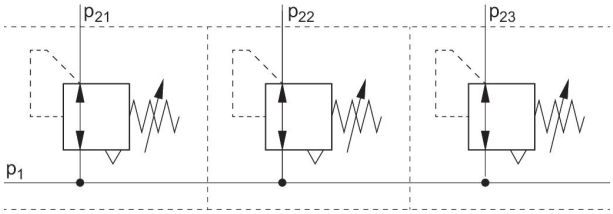


A1 = input
A2 = output
A4 = output
A6 = output
1) Pressure gauge Ø 40
2) Opening for control panel assembly

Part No.	A1	A2	A4	A6	B	C	D	E	G
0821302743	G 1/4	G 1/4	G 1/8	G 1/4	40	90	22	112	40

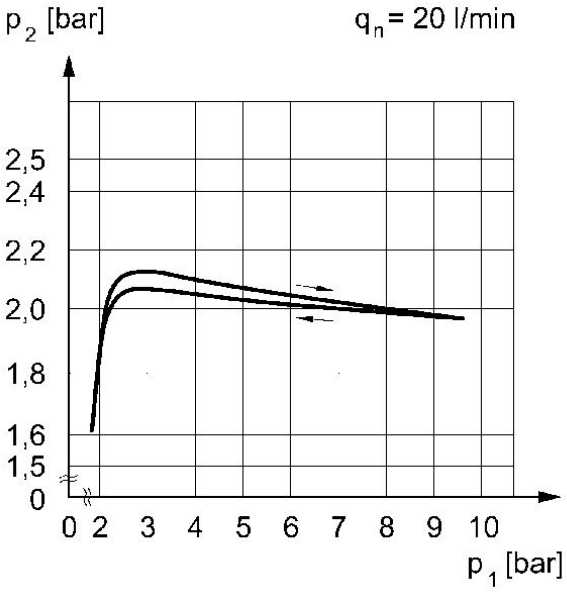
Part No.	J	L	N	T2	U	W
0821302743	40	33.6	4	8	31.5	43

Application example



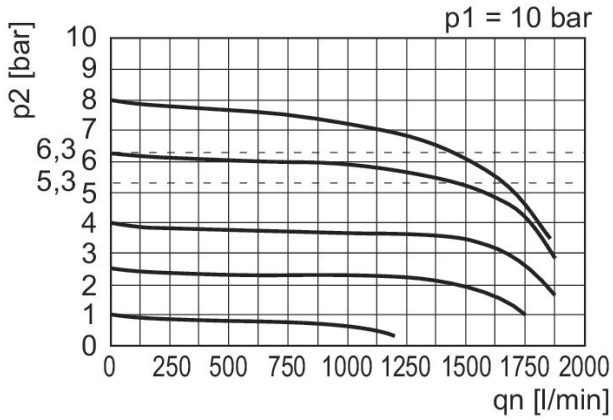
p1 = Working pressure

Pressure characteristics curve



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

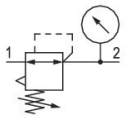
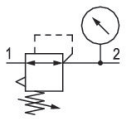
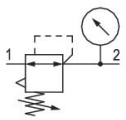
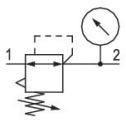
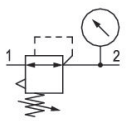
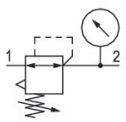
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



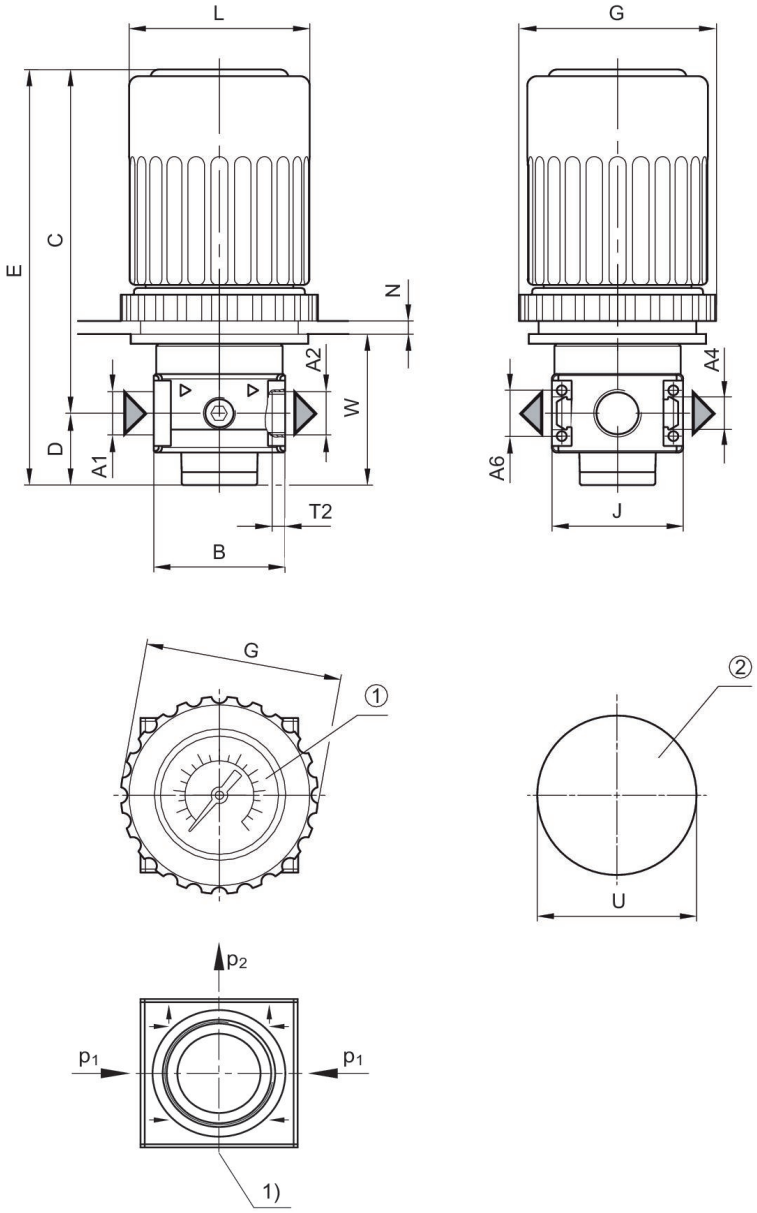
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL1-RGS

Activation: Mechanical
Actuating element: Pressure regulator, high flow rate
Mounting orientation: Any
: Can be assembled into blocks
: with pressure gauge in hand wheel
Flow: 1350 l/min
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 1/8	1350	0.5, 16	0.1	3	with pressure gauge in hand wheel	0821300663
	G 1/8	1350	0.5, 16	0.2	6	with pressure gauge in hand wheel	0821300664
	G 1/8	1350	0.5, 16	0.5	10	with pressure gauge in hand wheel	0821300665
	G 1/4	1350	0.5, 16	0.1	3	with pressure gauge in hand wheel	0821300666
	G 1/4	1350	0.5, 16	0.2	6	with pressure gauge in hand wheel	0821300667
	G 1/4	1350	0.5, 16	0.5	10	with pressure gauge in hand wheel	0821300668

Dimensions



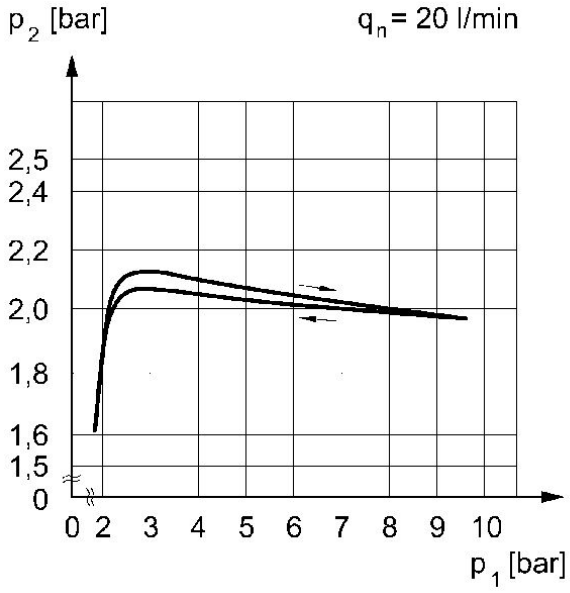
A1 = input
A2 = output
A4 = output
A6 = output
1) Pressure gauge Ø 40
2) Opening for control panel assembly

Dimensions in mm

Part No.	A1	A2	A4	A6	B	C	D	E	G
0821300663	G 1/8	G 1/8	G 1/8	G 1/8	40	102	22	124	60
0821300664	G 1/8	G 1/8	G 1/8	G 1/8	40	102	22	124	60
0821300665	G 1/8	G 1/8	G 1/8	G 1/8	40	102	22	124	60
0821300666	G 1/4	G 1/4	G 1/8	G 1/8	40	102	22	124	60
0821300667	G 1/4	G 1/4	G 1/8	G 1/8	40	102	22	124	60
0821300668	G 1/4	G 1/4	G 1/8	G 1/8	40	102	22	124	60

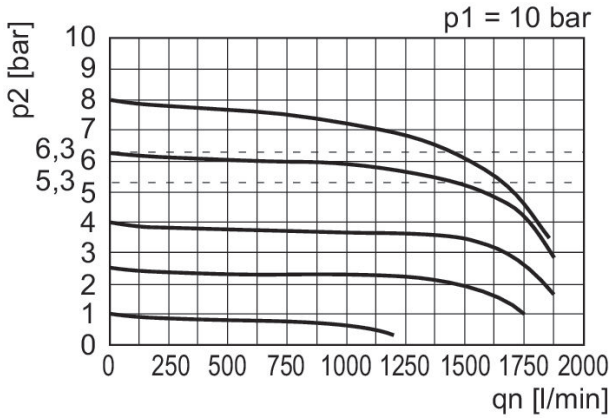
Part No.	J	L	N	T2	U	W
0821300663	40	54	4	8	48.5	43
0821300664	40	54	4	8	48.5	43
0821300665	40	54	4	8	48.5	43
0821300666	40	54	4	8	48.5	43
0821300667	40	54	4	8	48.5	43
0821300668	40	54	4	8	48.5	43

Pressure characteristics curve



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

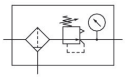
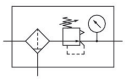
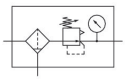
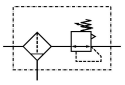
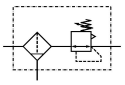
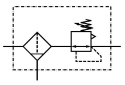
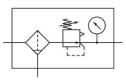
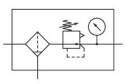
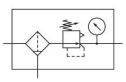
Flow rate characteristic (setting range p2: 0.5 - 10 bar)

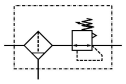
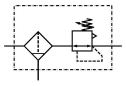
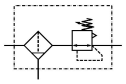


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

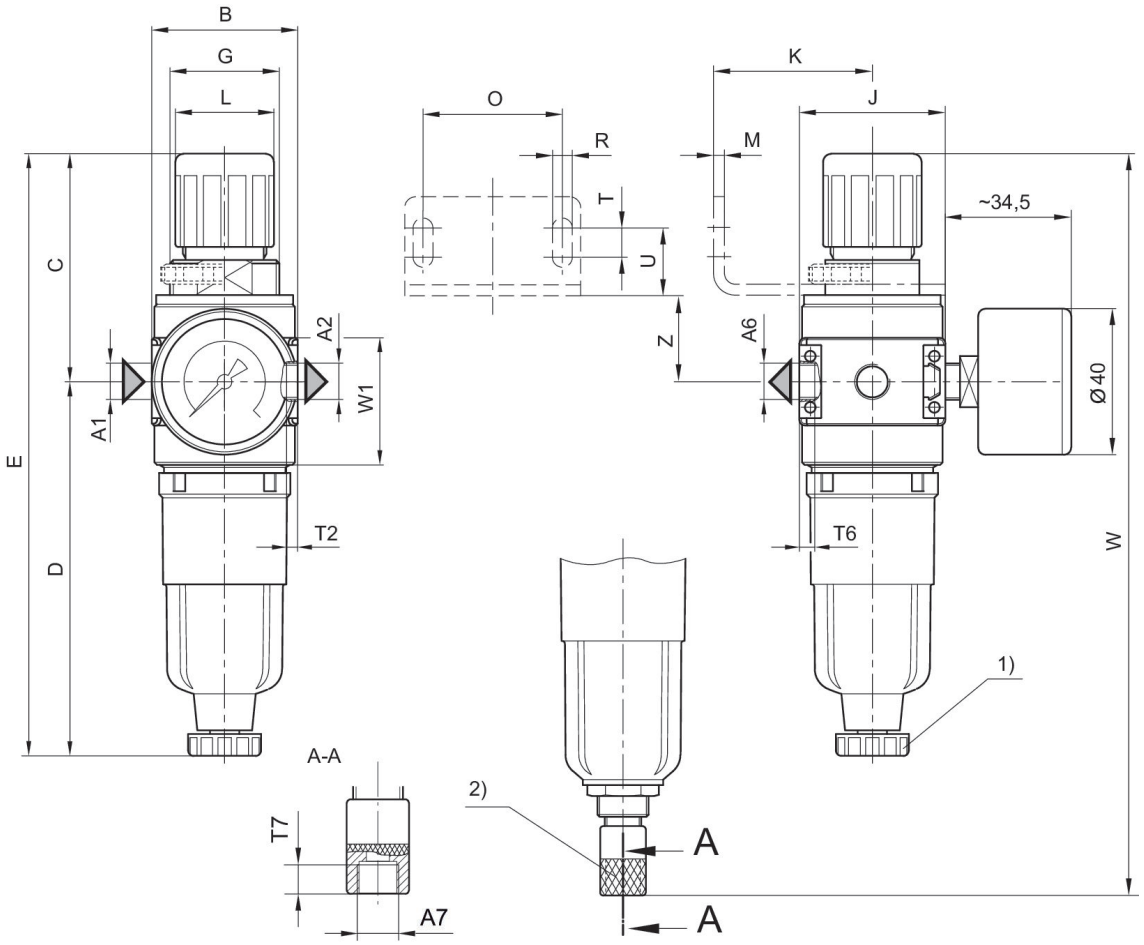
Filter pressure regulator, Series NL1-FRE

Flow: 1350 l/min
Parts: Filter pressure regulator
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 1.5 bar ... 16 bar

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 1/8	semi-automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300750
	G 1/8	semi-automatic, open without pressure	Metal reservoir without window	0.5	10	0821300751
	G 1/8	fully automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300752
	G 1/8	semi-automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300753
	G 1/8	semi-automatic, open without pressure	Metal reservoir without window	0.5	10	0821300754
	G 1/8	fully automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300755
	G 1/4	semi-automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300756
	G 1/4	semi-automatic, open without pressure	Metal reservoir without window	0.5	10	0821300757
	G 1/4	fully automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300758

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Part No.
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10	0821300759
	G 1/4	semi-auto-matic, open without pres-sure	Metal reser-voir without window	0.5	10	0821300760
	G 1/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	0.5	10	0821300761

Dimensions



A1 = input A2 = output
A4 = output A6 = output
1) Semi-automatic condensate drain 2) fully automatic condensate drain

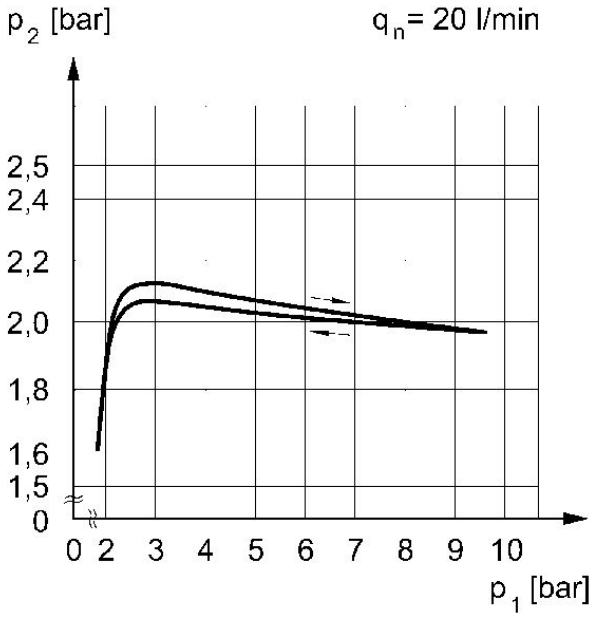
Dimensions in mm

Part No.	A1	A2	A3	A6	A7	B	C	D	E
0821300750	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300751	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300752	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300753	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300754	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300755	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300756	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300757	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300758	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300759	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300760	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165
0821300761	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165

Part No.	G	J	K	L	M	O	R	T	T2
0821300750	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300751	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300752	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300753	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300754	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300755	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300756	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300757	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300758	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300759	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300760	M30x1,5	40	43.5	27	3	38	5.4	8	8
0821300761	M30x1,5	40	43.5	27	3	38	5.4	8	8

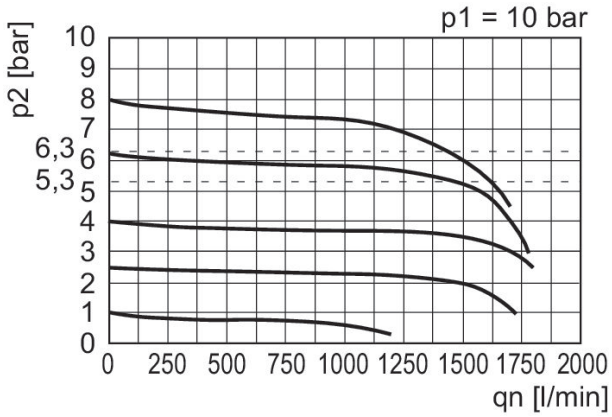
Part No.	T6	T7	U	W	W1	Z
0821300750	6	8.5	18.5	203	44	24.5
0821300751	6	8.5	18.5	203	44	24.5
0821300752	6	8.5	18.5	203	44	24.5
0821300753	6	8.5	18.5	203	44	24.5
0821300754	6	8.5	18.5	203	44	24.5
0821300755	6	8.5	18.5	203	44	24.5
0821300756	6	8.5	18.5	203	44	24.5
0821300757	6	8.5	18.5	203	44	24.5
0821300758	6	8.5	18.5	203	44	24.5
0821300759	6	8.5	18.5	203	44	24.5
0821300760	6	8.5	18.5	203	44	24.5
0821300761	6	8.5	18.5	203	44	24.5

Pressure characteristics curve



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

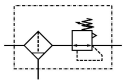
Flow rate characteristic, p2 = 0,05 - 7 bar



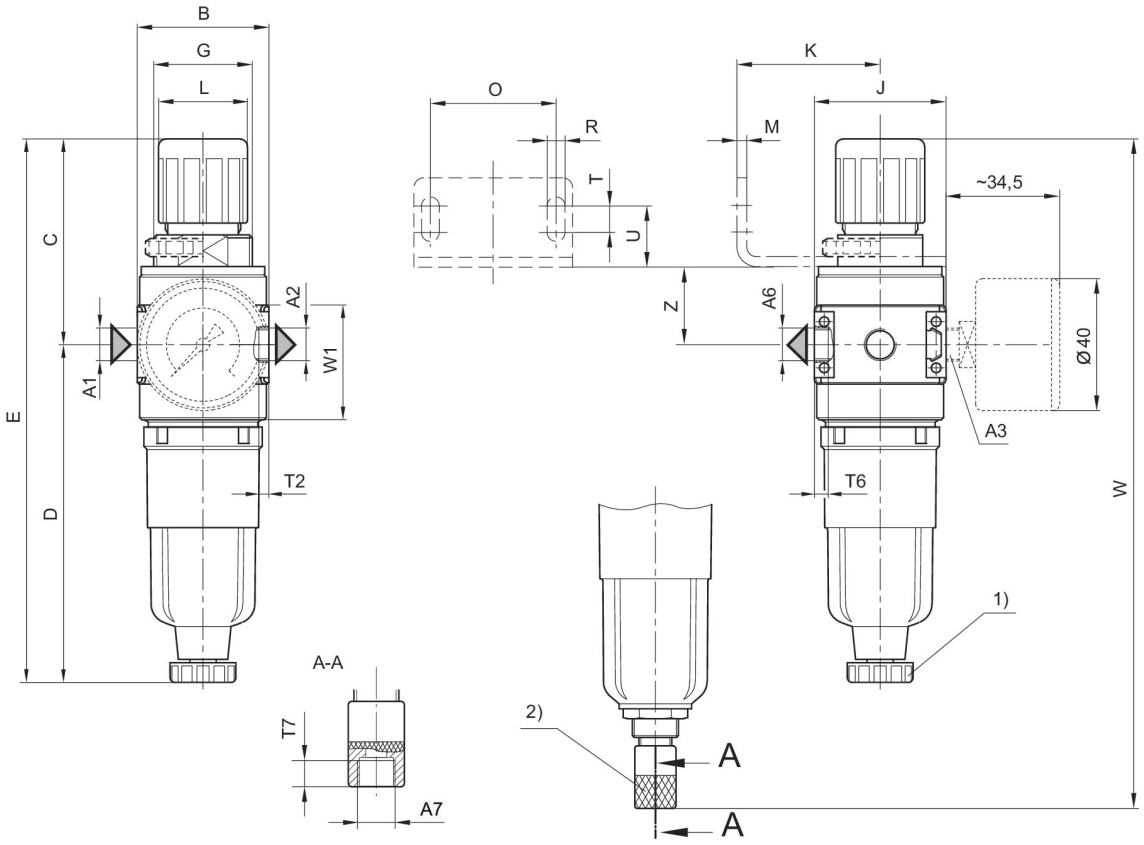
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filter pressure regulator, Series NL1-FRE

Flow: 1350 l/min
Condensate drain: semi-automatic, open without pressure
Parts: Filter pressure regulator
Temperature resistance: -30 °C cold-resistant
Ambient temperature min./max.: -30 °C ... 50 °C
Working pressure min./max.: 1.5 bar ... 16 bar

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Part No.
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10	R412007619

Dimensions



A1 = input A2 = output
A3 = output A6 = output
A7 = condensate drain
1) Semi-automatic condensate drain 2) fully automatic condensate drain

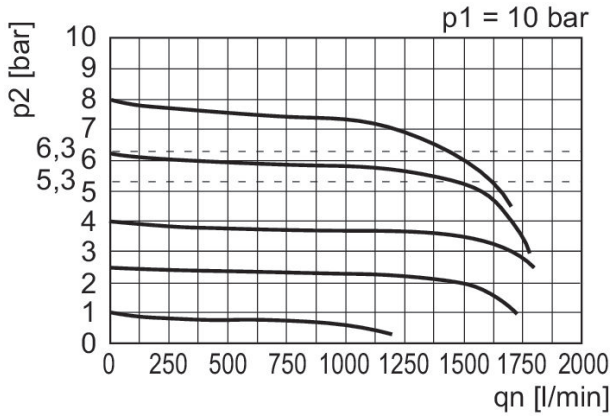
Dimensions in mm

Part No.	A1	A2	A3	A6	A7	B	C	D	E
R412007619	G 1/4	G 1/4	G 1/8	G 1/8	G 1/8	40	62.5	102.5	165

Part No.	G	J	K	L	M	O	R	T	T2
R412007619	M30x1,5	40	43.5	27	3	38	5.4	8	8

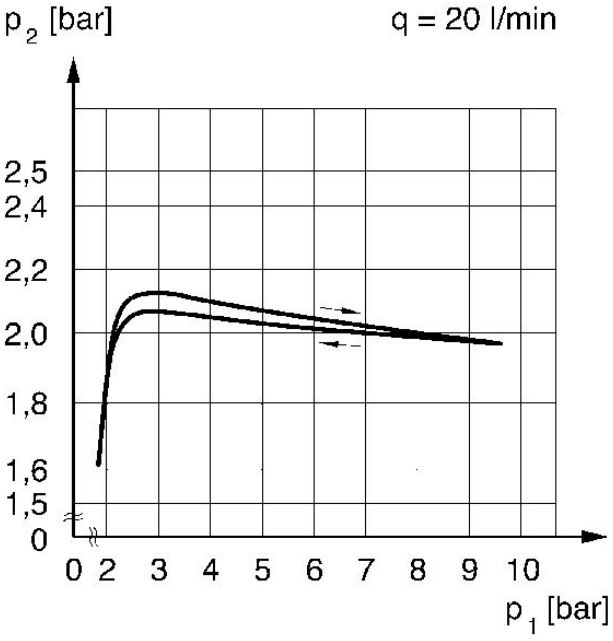
Part No.	T6	T7	U	W	W1	Z
R412007619	6	8.5	18.5	203	44	24.5

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



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

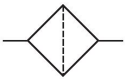
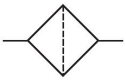
Pressure characteristics curve



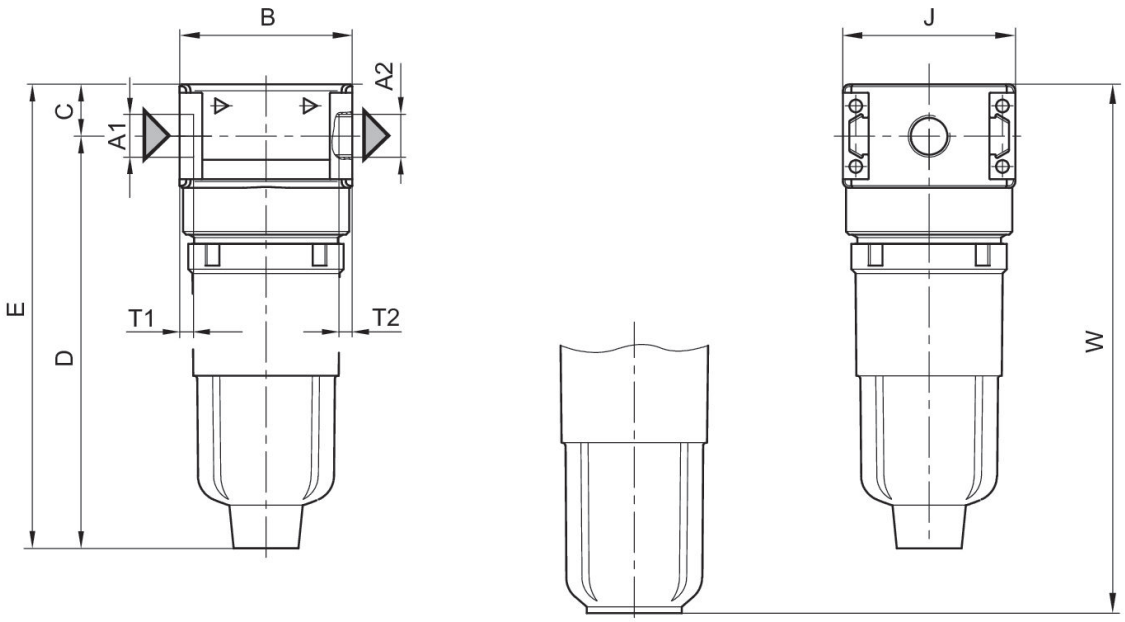
p1 = working pressure p2 = secondary pressure q = flow rate

Active carbon filter, Series NL1-FLA

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Filter reservoir volume: 16 cm³
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Reservoir	Filter insert	Part No.
	G 1/8	310	reservoir, polycarbonate, without protective guard	Active carbon	0821303720
	G 1/4	380	reservoir, polycarbonate, without protective guard	Active carbon	0821303721

Dimensions



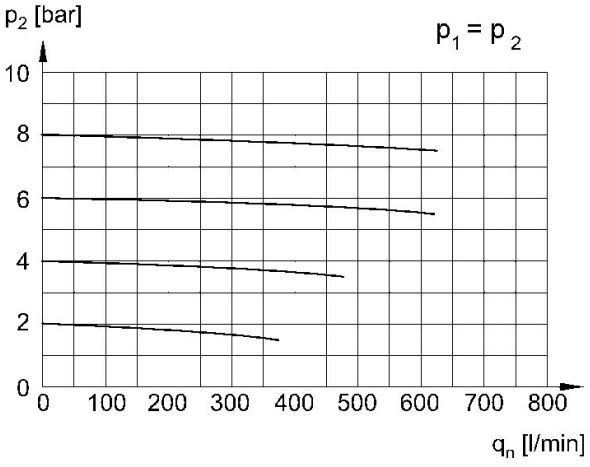
A1 = input A2 = output

Dimensions in mm

Part No.	A1	A2	B	C	D	E	J	T1	T2
0821303720	G 1/8	G 1/8	40	12.3	95.5	108	40	8	8
0821303721	G 1/4	G 1/4	40	12.3	–	–	40	8	8

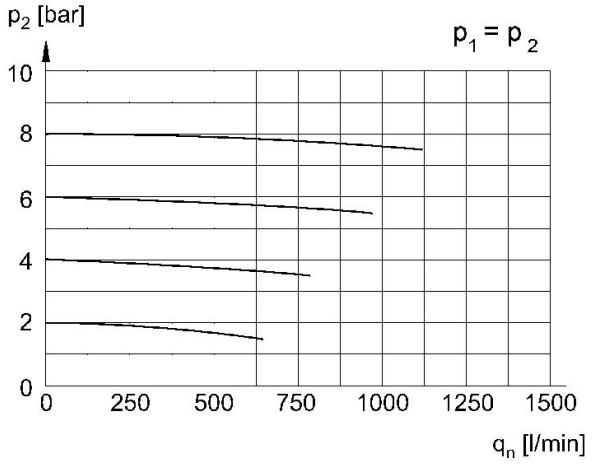
Part No.	W
0821303720	–
0821303721	123

Flow rate characteristic G1/8



p2 = secondary pressure qn = nominal flow

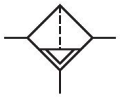
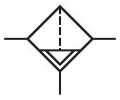
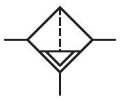
Flow rate characteristic G1/4



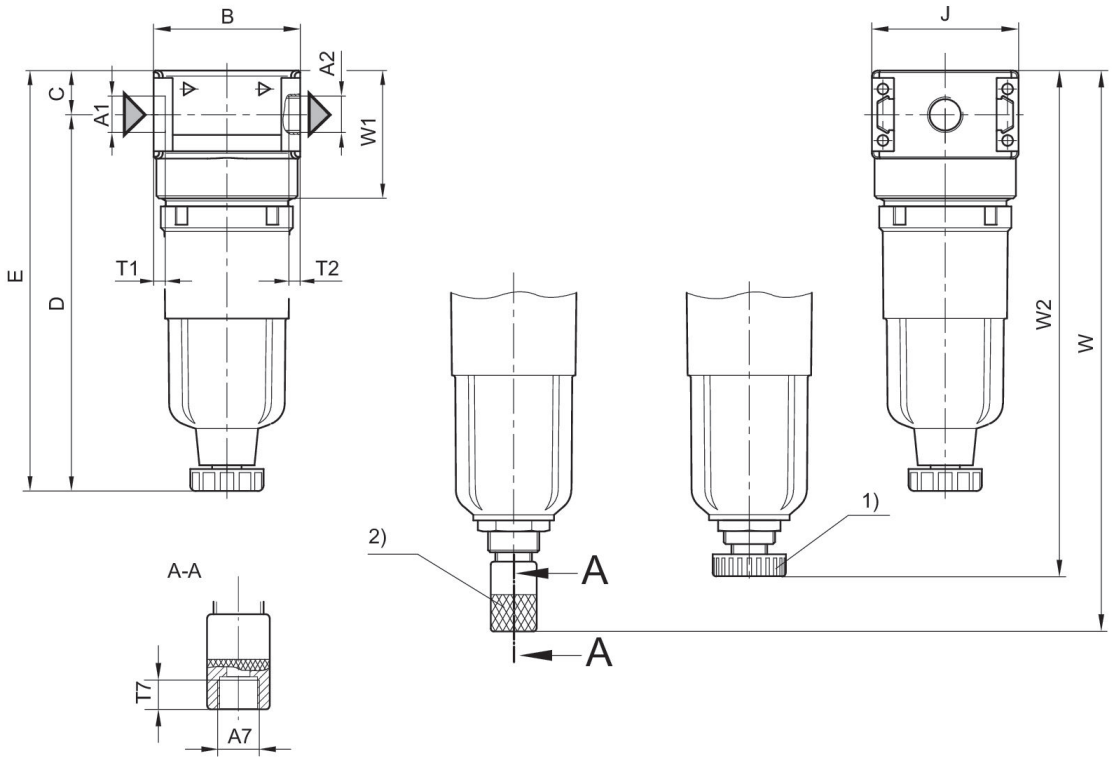
p2 = secondary pressure qn = nominal flow

Microfilter, Series NL1-FLC

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 250 l/min
Filter porosity: 0.01 µm
Filter reservoir volume: 16 cm³
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 1.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1/8	170	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	Borosilicate glass fiber	0821303716
	G 1/8	170	0.01	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	Borosilicate glass fiber	0821303717
	G 1/4	450	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	Borosilicate glass fiber	0821303718

Dimensions



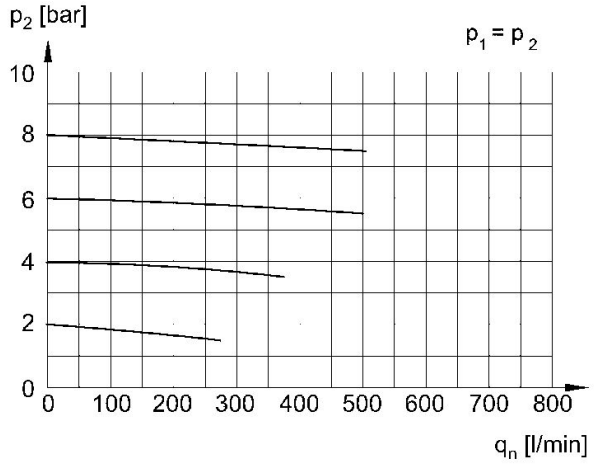
A1 = input A2 = output
1) Semi-automatic condensate drain 2) fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E	J	T1
0821303716	G 1/8	G 1/8	G 1/8	40	12.3	102.5	114.8	40	8
0821303717	G 1/8	G 1/8	G 1/8	40	12.3	102.5	114.8	40	8
0821303718	G 1/4	G 1/4	G 1/8	40	12.3	–	–	40	8

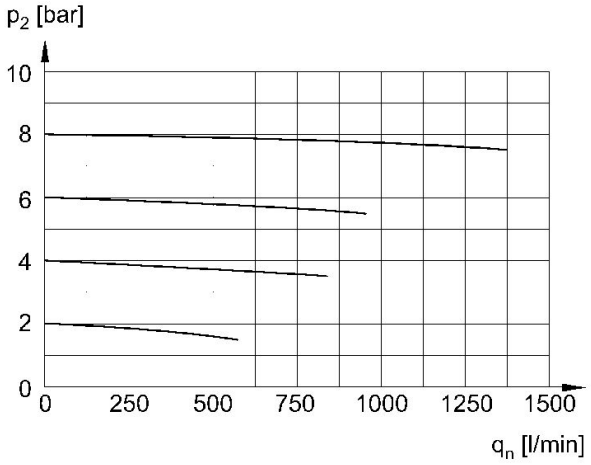
Part No.	T2	T7	W	W1	W2
0821303716	8	8.5	153	35.1	–
0821303717	8	8.5	153	35.1	–
0821303718	8	8.5	–	35.1	138

Flow rate characteristic G1/8



p2 = secondary pressure qn = nominal flow

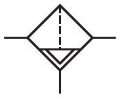
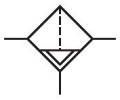
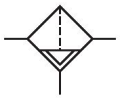
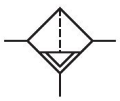
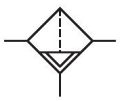
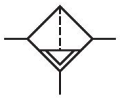
Flow rate characteristic G1/4



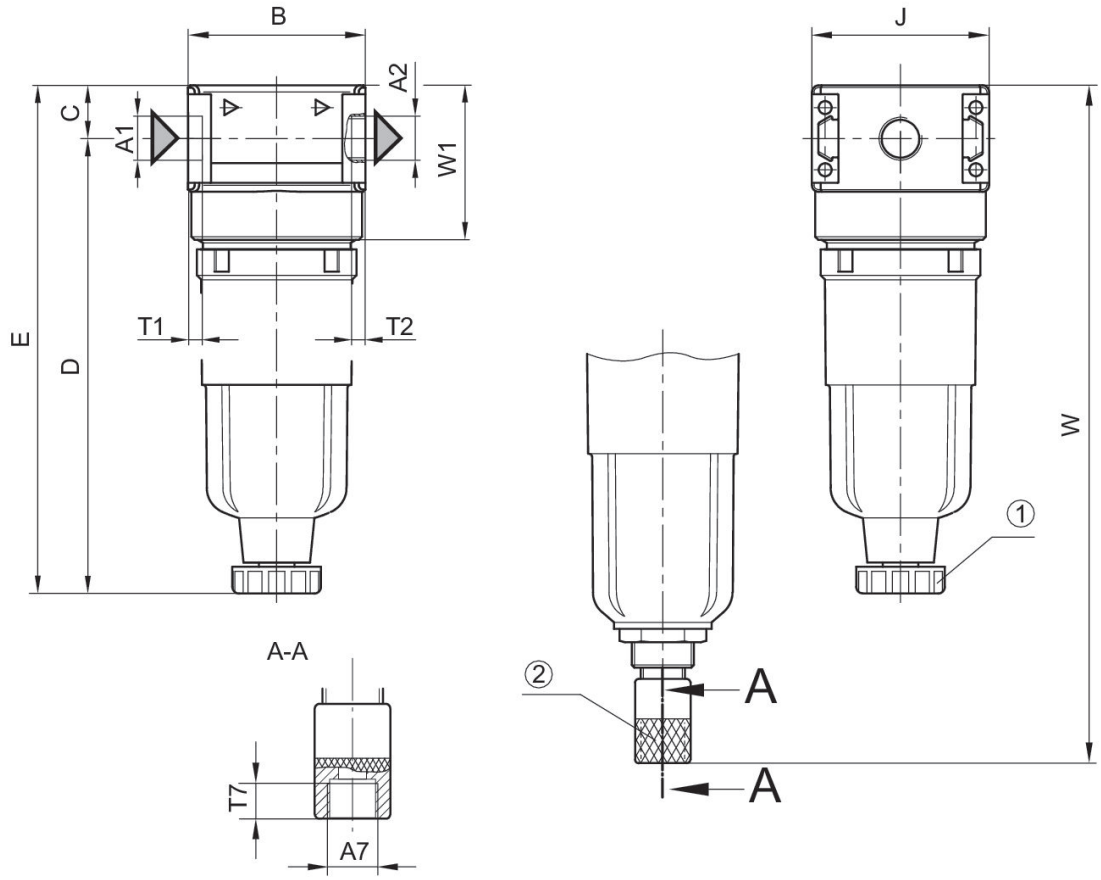
p2 = secondary pressure qn = nominal flow

Filter, Series NL1-FLS

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 1000 l/min
Filter porosity: 5 µm
Filter reservoir volume: 16 cm³
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 1.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1/8	1000	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303710
	G 1/8	1000	5	semi-auto-matic, open without pres-sure	Metal reser-voir without window	Cellpor	0821303711
	G 1/8	1000	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303712
	G 1/4	1000	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303713
	G 1/4	1000	5	semi-auto-matic, open without pres-sure	Metal reser-voir without window	Cellpor	0821303714
	G 1/4	1000	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303715

Dimensions



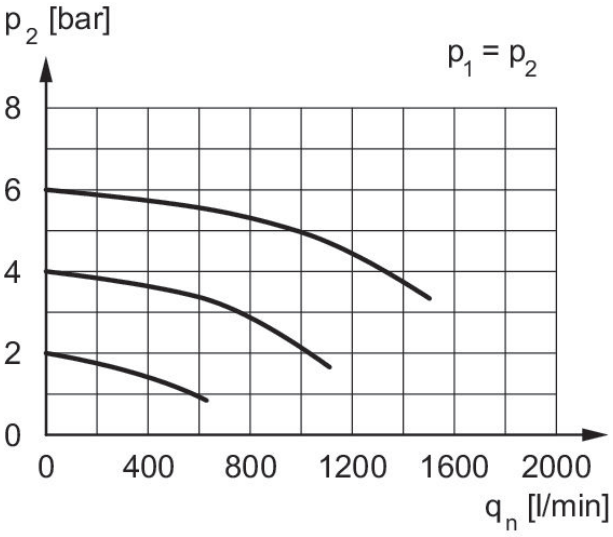
A1 = input A2 = output
1) Semi-automatic condensate drain 2) fully automatic condensate drain

Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E	J	T1
0821303710	G 1/8	G 1/8	G 1/8	40	12.3	102.5	114.8	40	8
0821303711	G 1/8	G 1/8	G 1/8	40	12.3	-	114	40	8
0821303712	G 1/8	G 1/8	G 1/8	40	12.3	-	-	40	8
0821303713	G 1/4	G 1/4	G 1/8	40	12.3	102.5	114.8	40	8
0821303714	G 1/4	G 1/4	G 1/8	40	12.3	-	114	40	8
0821303715	G 1/4	G 1/4	G 1/8	40	12.3	-	-	40	8

Part No.	T2	T7	W	W1
0821303710	8	8.5	-	35.1
0821303711	8	8.5	-	35.1
0821303712	8	8.5	154	35.1
0821303713	8	8.5	-	35.1
0821303714	8	8.5	-	35.1
0821303715	8	8.5	154	35.1

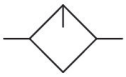
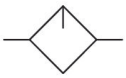
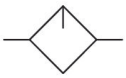
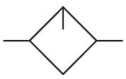
Flow rate characteristic, p2 = 0,05 - 7 bar



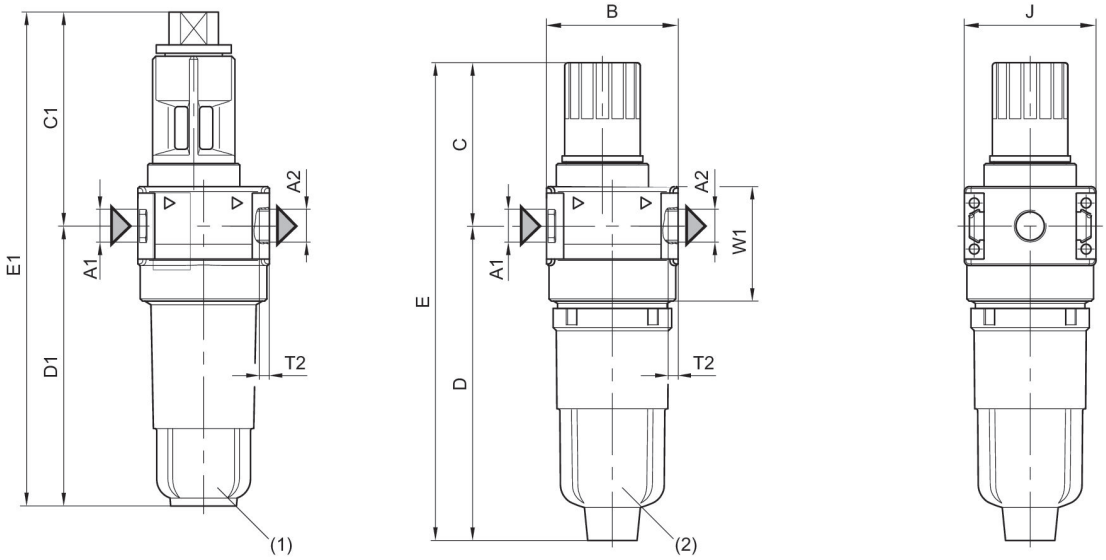
p2 = secondary pressure qn = nominal flow

Micro oil-mist lubricator, Series NL1-LBM

Mounting orientation: vertical
: Can be assembled into blocks
Flow: 1000 l/min
Lubricator reservoir volume: 35 cm³
Type of filling: Manual oil filling
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

	Port	Nominal flow [l/min]	Reservoir	Lubricator reservoir volume [cm³]	Part No.
	G 1/8	1000	reservoir, polycarbonate, without protective guard	35	0821301702
	G 1/8	1000	reservoir, metal, standard, without inspection glass	35	0821301703
	G 1/4	1000	reservoir, polycarbonate, without protective guard	35	0821301704
	G 1/4	1000	reservoir, metal, standard, without inspection glass	35	0821301705

Dimensions



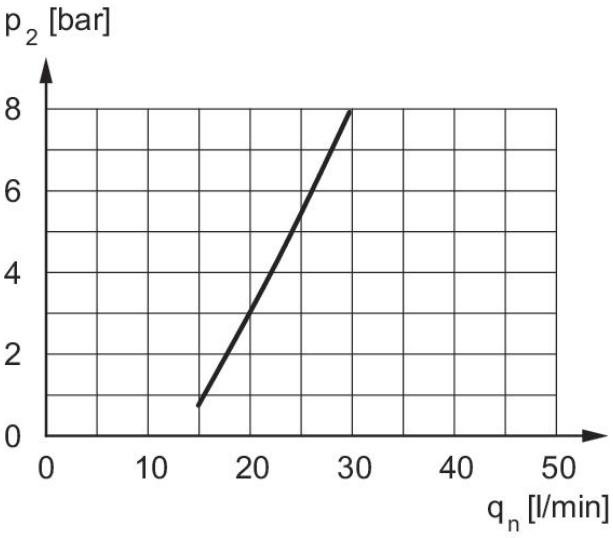
A1 = input A2 = output
1) Metal reservoir
2) PC reservoir

Dimensions in mm

Part No. G 1/8	A1	A2	B	C	C1	D	D1	E	E1
0821301702	G 1/8	G 1/8	40	50	65	95.5	85	145.5	150
0821301703	G 1/8	G 1/8	40	50	65	95.5	85	145.5	150
0821301704	G 1/4	G 1/4	40	50	65	95.5	85	145.5	150
0821301705	G 1/4	G 1/4	40	50	65	95.5	85	145.5	150

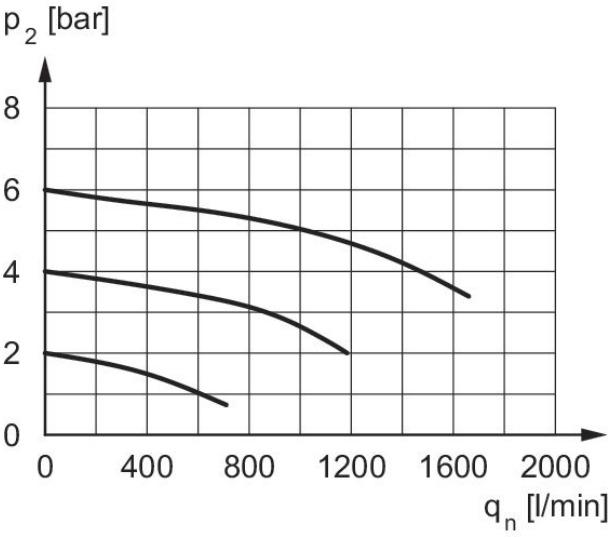
Part No. G 1/8	J	T2	W1
0821301702	40	8	35
0821301703	40	8	35
0821301704	40	8	35
0821301705	40	8	35

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



p2 = secondary pressure qnmin. = min. nominal flow

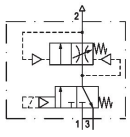
Flow rate characteristic, p2 = 0,05 - 7 bar



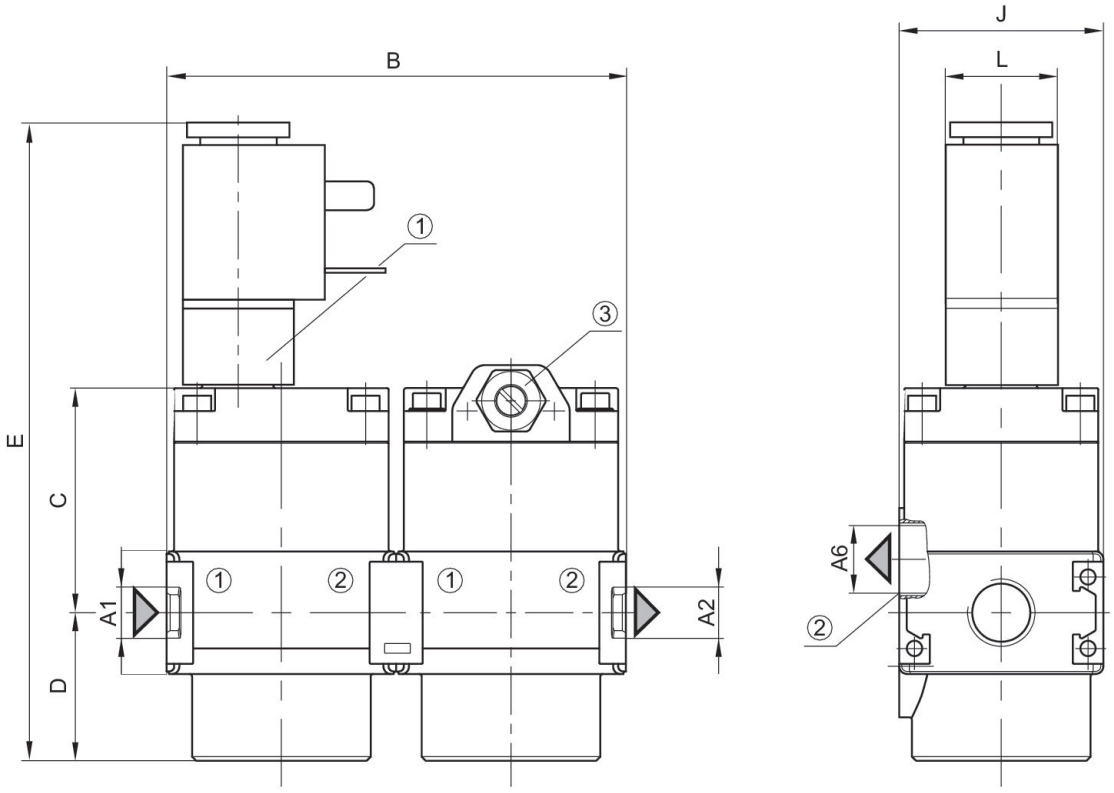
p2 = secondary pressure qn = nominal flow

Filling unit, electrically operated, Series NL1-SSU

Activation: Electrically
Parts: 3/2-directional valve, Filling valve
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2.5 bar ... 10 bar

	Port	Nominal flow [l/min]	Electrical connection	Operational voltage DC	Part No.
	G 1/4	2000	ISO 6952, form B	24 V	0821300796

Dimensions



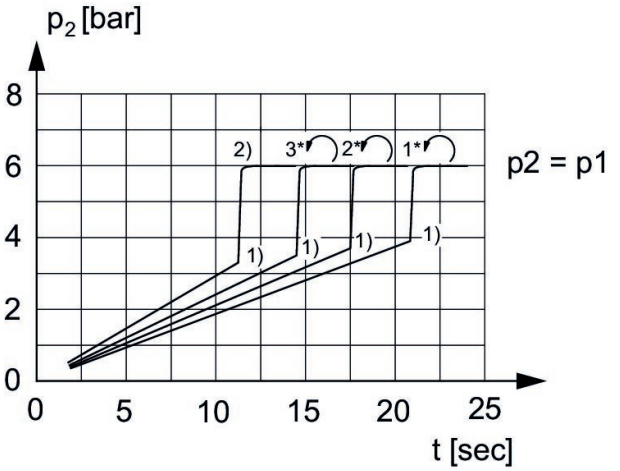
A1 = input A2 = output A6 = output
1) electrically operated
2) exhaust
3) Adjustment screw for filling time

Dimensions in mm

Part No.	A1	A2	A6	B	C	D	E	J	L
0821300796	G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22
0821300797	G 1/4	G 1/4	G 1/4	90	44.5	29	124.5	40	22

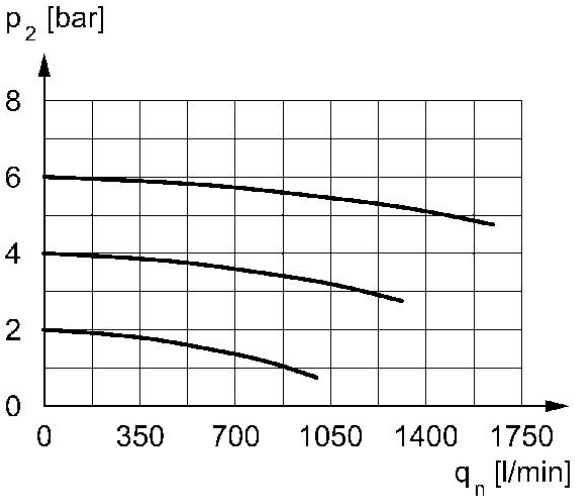
Part No.	L1	W
0821300796	22	89.5
0821300797	22	89.5

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

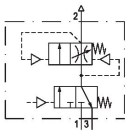
Flow rate characteristic, p2 = 0,05 - 7 bar



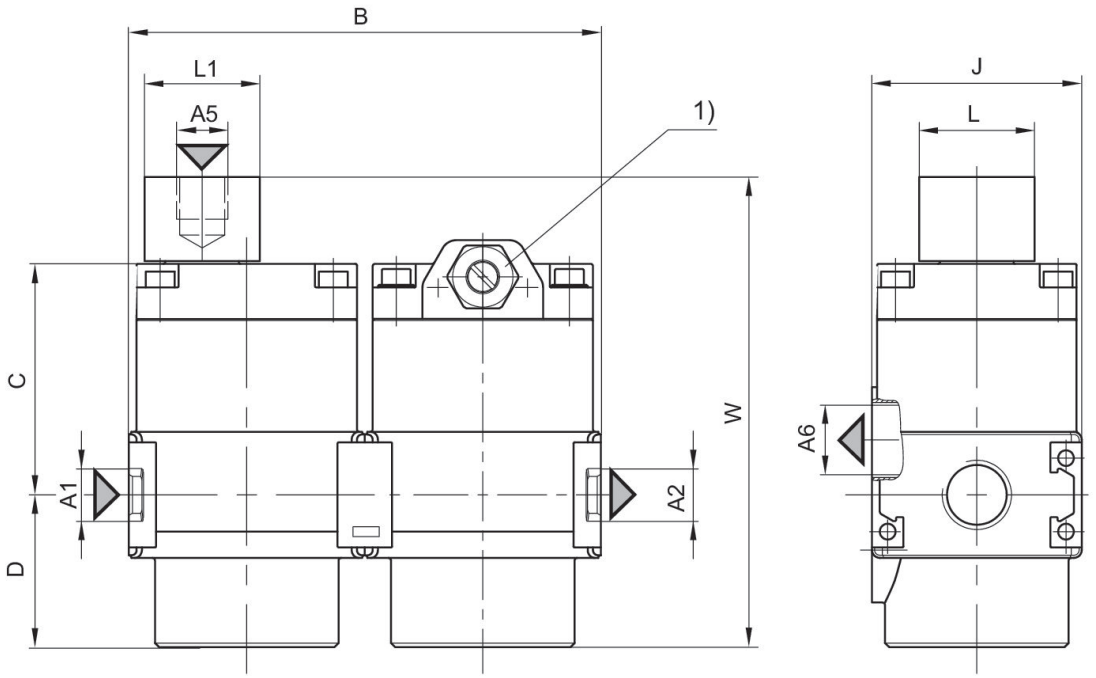
p2 = secondary pressure qn = nominal flow

Filling unit, pneumatically operated, Series NL1-SSU

Activation: Pneumatically
Parts: 3/2-directional valve, Filling valve
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1/4	2000	0821300795

Dimensions



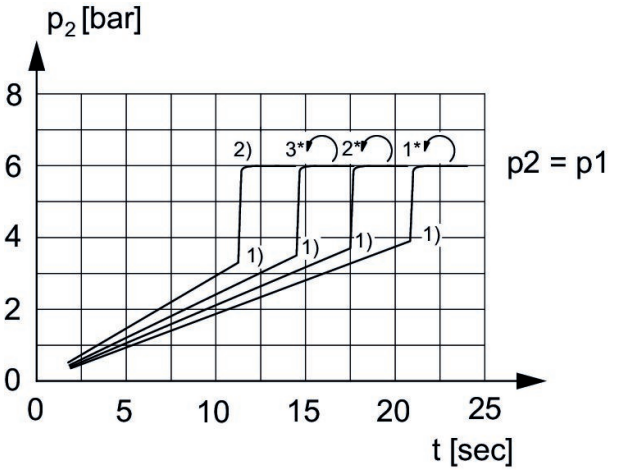
A1 = input A2 = output
A5 = Control pressure connection
A6 = ventilation port
1) Adjustment screw for filling time

Dimensions in mm

Part No.	A1	A2	A5	A6	B	C	D	J	L
0821300795	G 1/4	G 1/4	G1/8	G 1/4	90	44.5	29	40	22

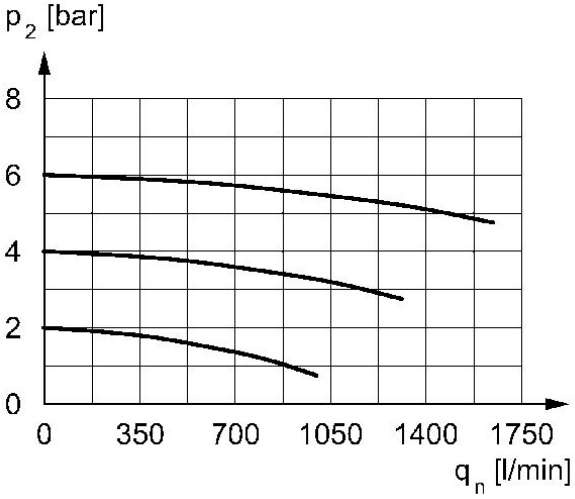
Part No.	L1	W
0821300795	22	89.5

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

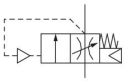
Flow rate characteristic, p2 = 0,05 - 7 bar



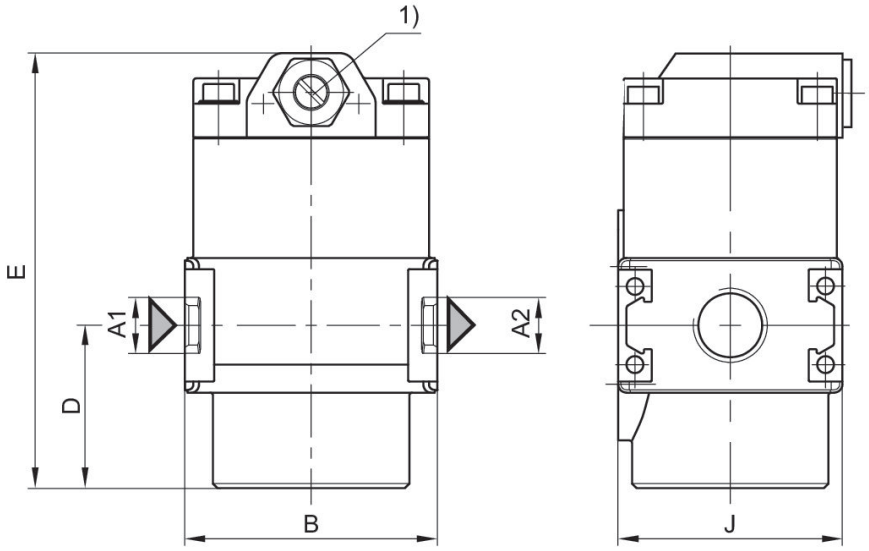
p2 = secondary pressure qn = nominal flow

Filling valve, pneumatically operated, Series NL1-SSV

Flow: 2200 l/min
Activation: Pneumatically
Parts: Filling valve
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1/4	2200	0821300774

Dimensions

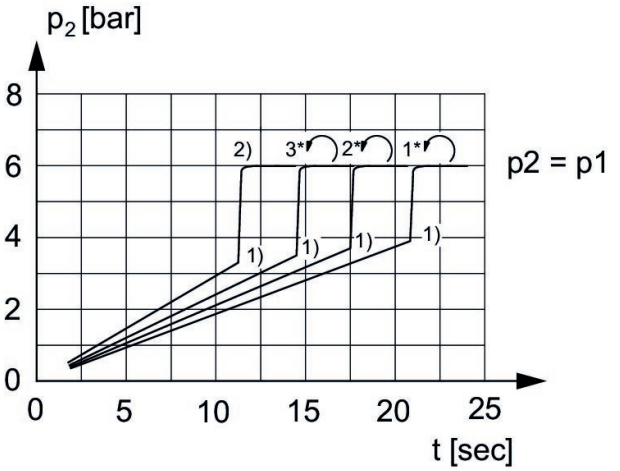


A1 = input A2 = output
1) Adjustment screw for filling time

Dimensions in mm

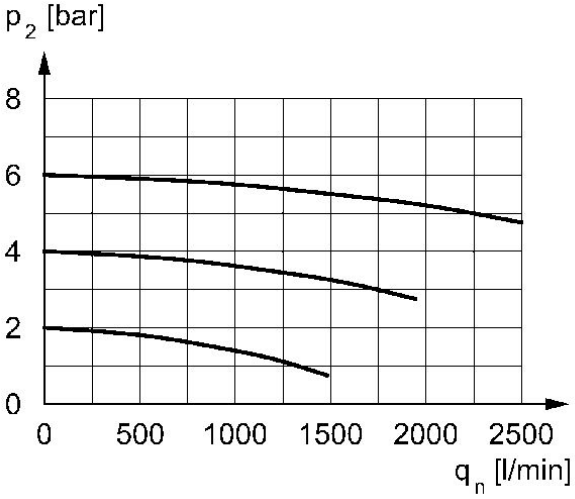
Part No.	A1	A2	B	D	E	J
0821300774	G 1/4	G 1/4	45	29	77.5	40

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

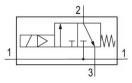
Flow rate characteristic, p2 = 0,05 - 7 bar



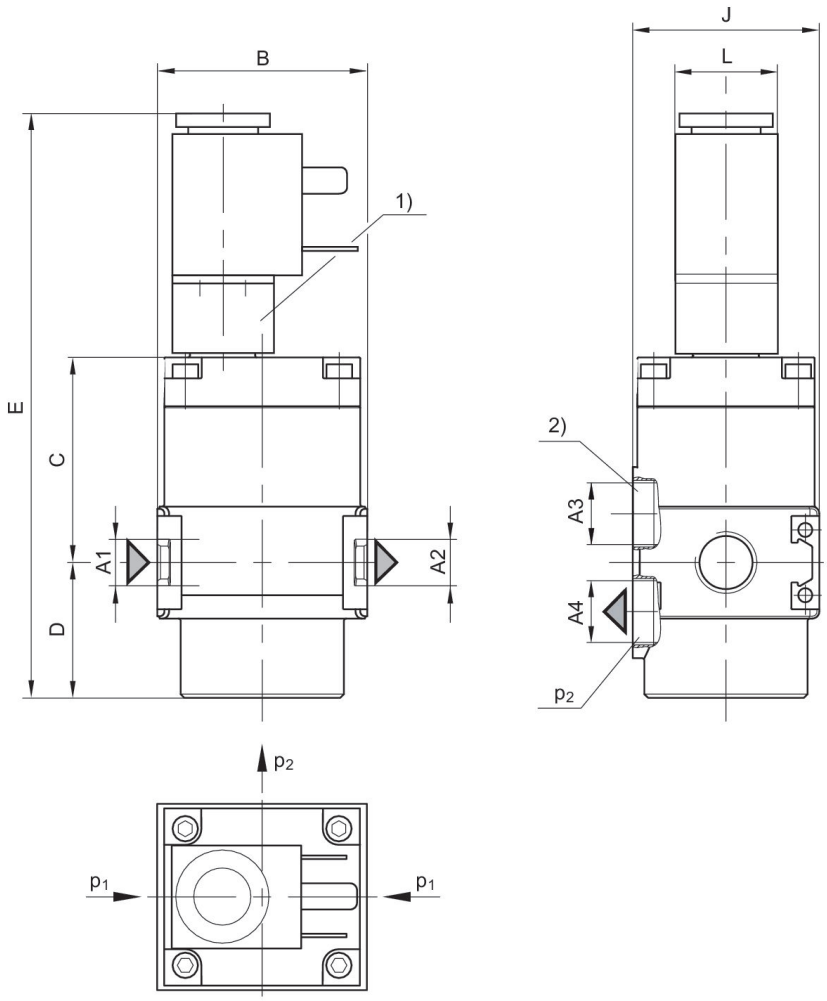
p2 = secondary pressure qn = nominal flow

3/2-directional valve, electrically operated, Series NL1-SOV-...-DS

Activation: Electrically
Parts: 3/2-directional valve
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2.5 bar ... 10 bar

	Port	Nominal flow [l/min]	Electrical connection	Operational voltage DC	Part No.
	G 1/4	2000	ISO 6952, form B	24 V	0821300673

Dimensions



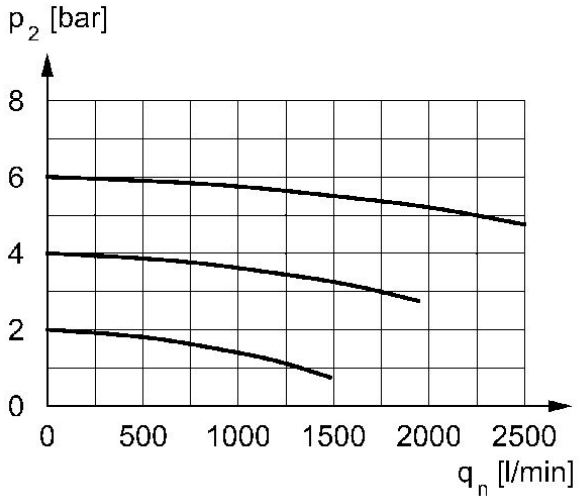
A1 = input A2 = output A3 = ventilation port
A4 = output
p1 = Working pressure
p2 = Secondary pressure
1) electrically operated
2) Port 3 (Exhaust)

Dimensions in mm

Part No.	A1	A2	A3	A4	A6	B	C	D	E
0821300673	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	45	44.5	29	124.5

Part No.	J	L
0821300673	40	22

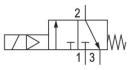
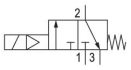
Flow rate characteristic, p2 = 0,05 - 7 bar



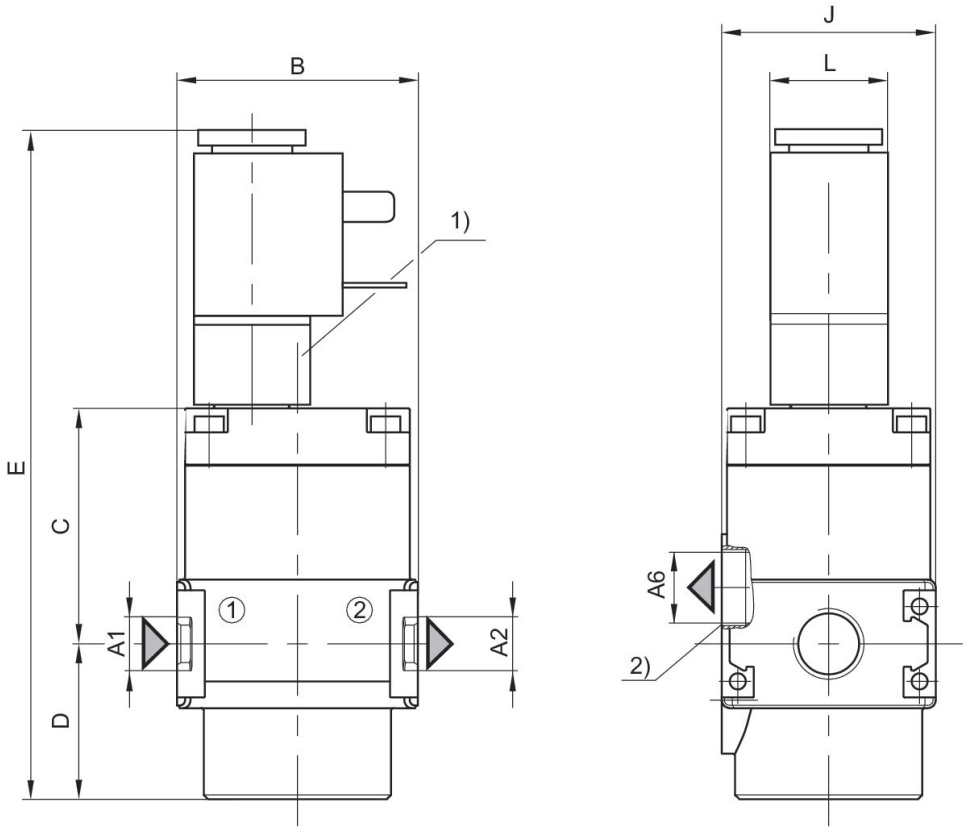
p2 = secondary pressure qn = nominal flow

3/2-directional valve, electrically operated, Series NL1-SOV

Activation: Electrically
Parts: 3/2-directional valve
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 3 bar ... 10 bar

	Port	Nominal flow [l/min]	Operational voltage	Electrical connection	Operational voltage DC	Part No.
	G 1/4	2000		ISO 6952, form B	24 V	0821300776
	G 1/4	2000	230 V AC	ISO 6952, form B		0821300777

Dimensions

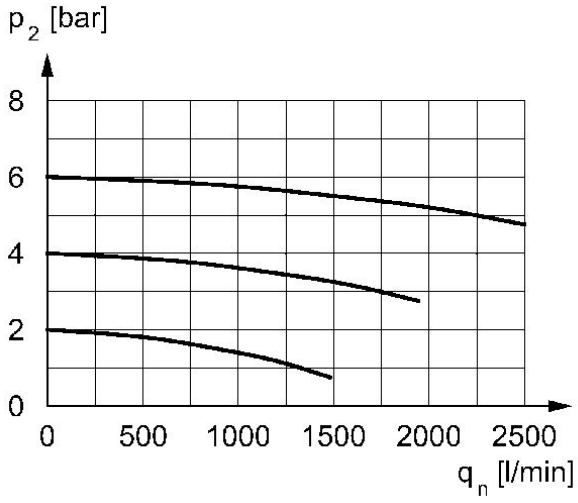


A1 = input A2 = output A6 = output
1) electrically operated
2) Port 3 (Exhaust)

Dimensions in mm

Part No.	A1	A2	A6	B	C	D	E	J	L
0821300776	G 1/4	G 1/4	G 1/4	45	44.5	29	124.5	40	22
0821300777	G 1/4	G 1/4	G 1/4	45	44.5	29	124.5	40	22

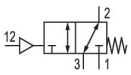
Flow rate characteristic, p2 = 0,05 - 7 bar



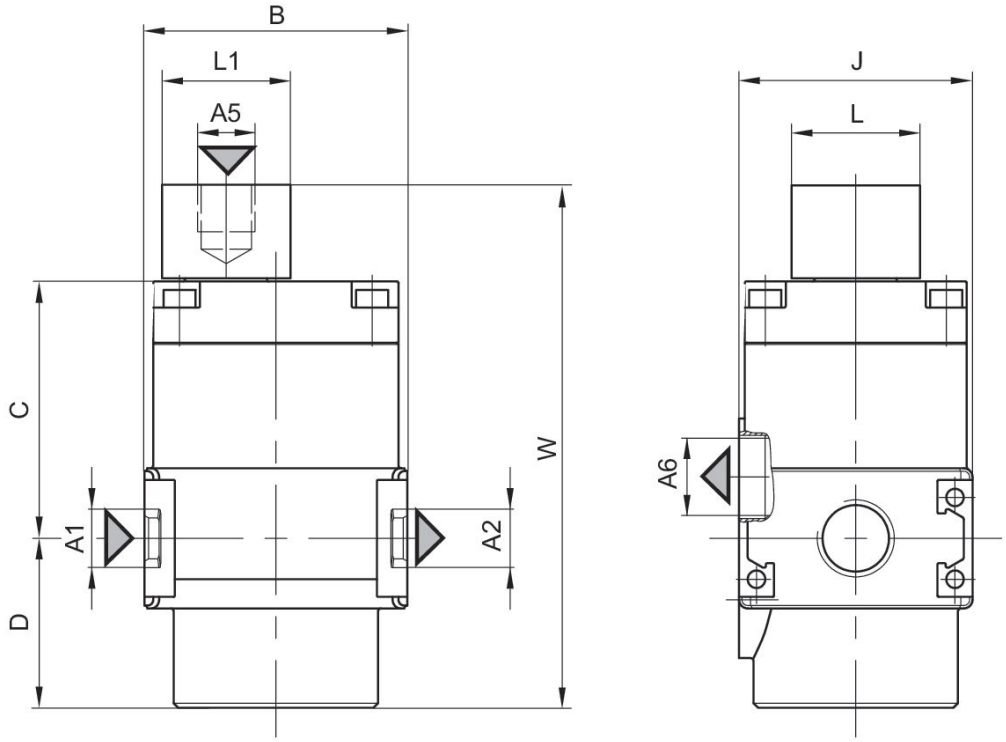
p2 = secondary pressure qn = nominal flow

3/2-directional valve, pneumatically operated, Series NL1-SOV

Activation: Pneumatically
Parts: 3/2-directional valve
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1/4	2200	0821300775

Dimensions



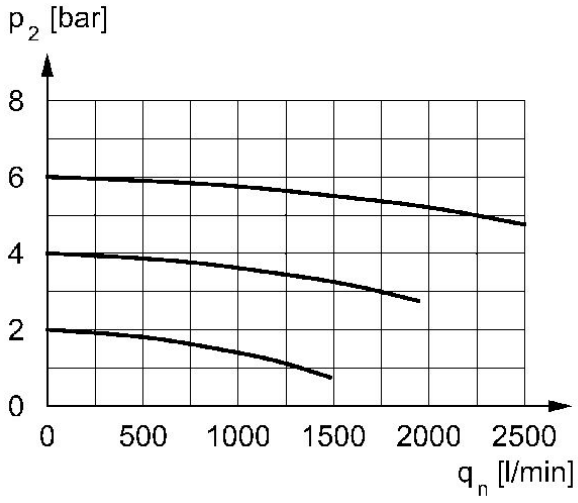
A1 = input A2 = output
A5 = Control pressure connection
A6 = ventilation port

Dimensions in mm

Part No.	A1	A2	A5	A6	B	C	D	J	L
0821300775	G 1/4	G 1/4	G 1/8	G 1/4	45	44.5	29	40	22

Part No.	L1	W
0821300775	22	89.5

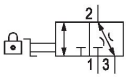
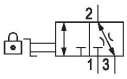
Flow rate characteristic, p2 = 0,05 - 7 bar



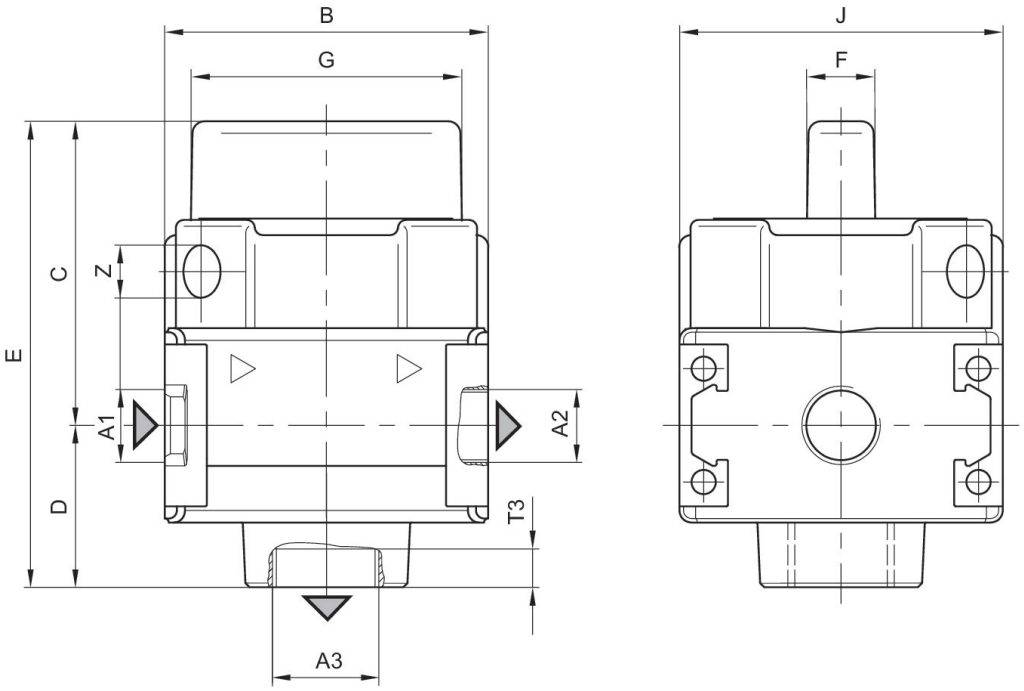
p2 = secondary pressure qn = nominal flow

3/2-shut-off valve, mechanically operated, Series NL1-BAV

: lockable
: for padlocks
Flow: 3000 l/min
Activation: Mechanical
Qn 1 > 2: 1800 l/min
Compressed air connection type: Internal thread
Compressed air connection, exhaust: G 1/4
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1/8	3000	0821300772
	G 1/4	3000	0821300773

Dimensions



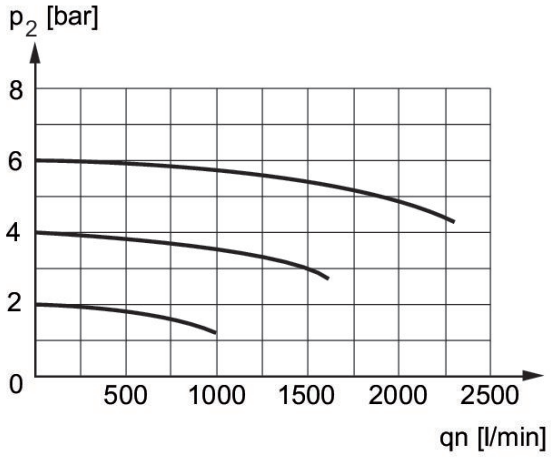
A1 = input
A2 = output
A3 = ventilation port

Dimensions in mm

Part No.	A1	A2	A3	B	C	D	E	F	G
0821300772	G 1/8	G 1/8	G 1/4	40	37.6	20	57.6	8	33.5
0821300773	G 1/4	G 1/4	G 1/4	40	37.6	20	57.6	8	33.5

Part No.	J	T3	Z
0821300772	40	10	6.5
0821300773	40	10	6.5

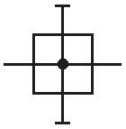
Flow rate characteristic, p2 = 0,05 - 7 bar



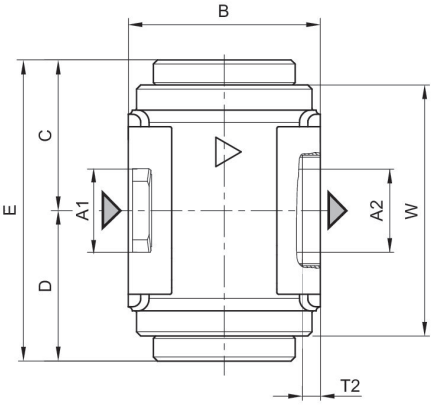
p2 = Secondary pressure
qn = Nominal flow

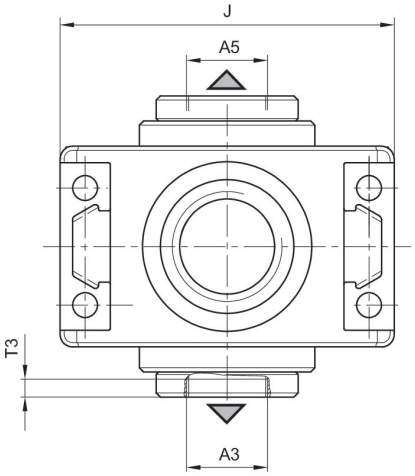
Distributor, Series NL1-DIL

Mounting orientation: Any
: Can be assembled into blocks
Flow: 2700 l/min
Qn 1 > 2: 2700 l/min
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1/4	2700	0821300771

Dimensions





A1 = input A2 = output A3 = output A5 = output

Dimensions in mm

Part No.	A1	A2	A3	A5	B	C	D	E	J
0821300771	G 1/4	G 1/4	G 1/8	G 1/8	23	18	20	40	40

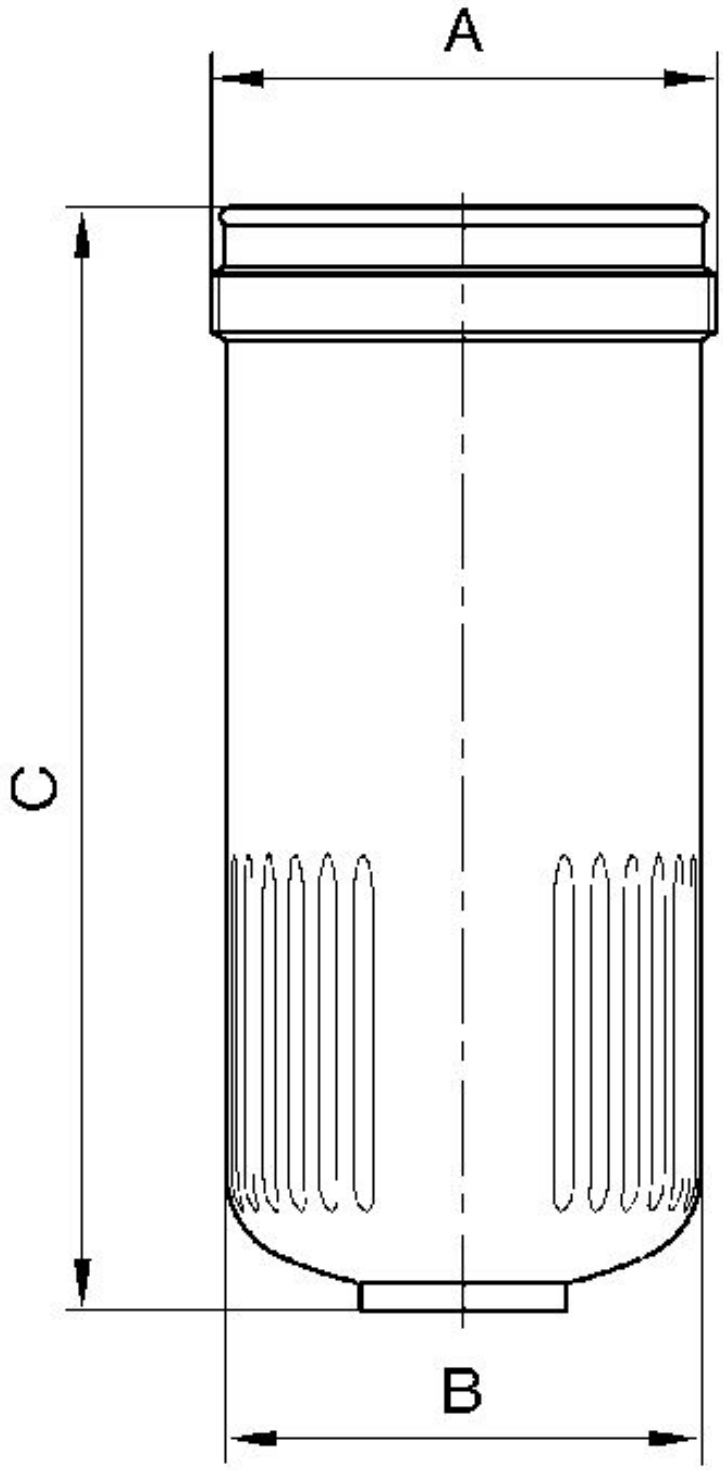
Part No.	T2	T3	W
0821300771	6	8	30

Reservoir, Series NL1/AS1-CBM/-CLA/-CBM

Filter reservoir volume: 16 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

Filter reservoir volume [cm³]	Version	Part No.
16	reservoir, polycarbonate, without protective guard	1827009333

Dimensions



Dimensions in mm

Part No.	A	B	C
1827009333	M36x1.5	30	100

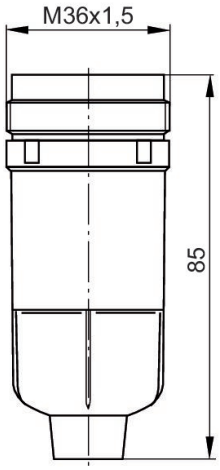
Reservoir, Series NL1/AS1-CBM/-CLA

Filter reservoir volume: 16 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 16 bar

Filter reservoir volume [cm³]	Fig.	Version	Part No.
16	Fig. 1	reservoir, polycarbonate, without protective guard	1827009637
16	Fig. 2	Metal reservoir without window	1827009638

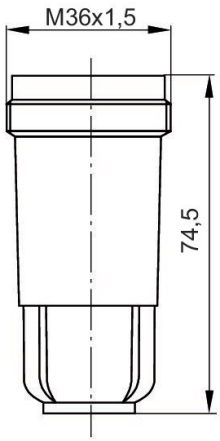
1827009637

Dimensions in mm



1827009638

Dimensions in mm



Reservoir, Series NL2-CLS

Filter reservoir volume: 25 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2 bar ... 16 bar

Conden-sate drain	Filter reser-voir volume [cm³]	Fig.	Version	Part No.
fully automat-ic, open with-out pressure	25	Fig. 3	reservoir, polycarbon-ate, without protective guard	1827009335

Fig. 1

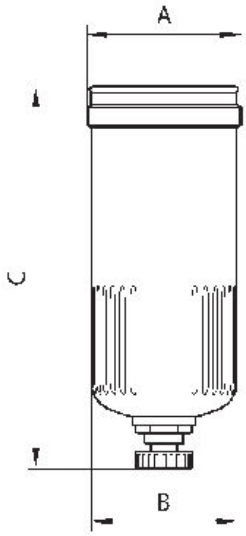


Fig. 2

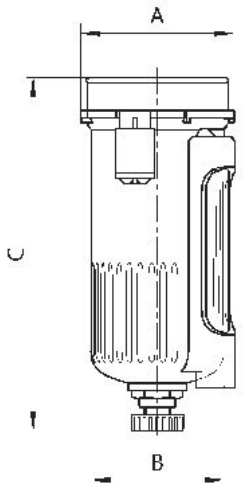


Fig. 3

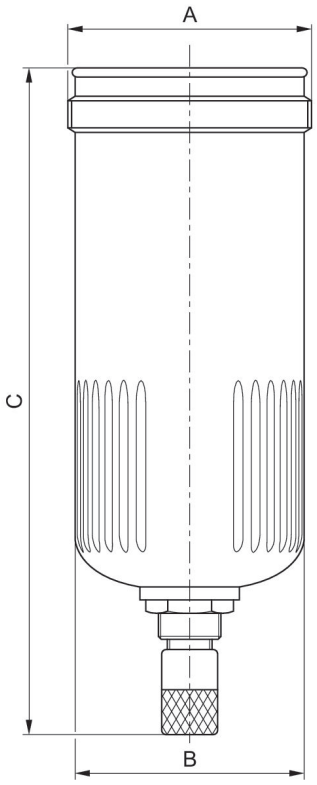
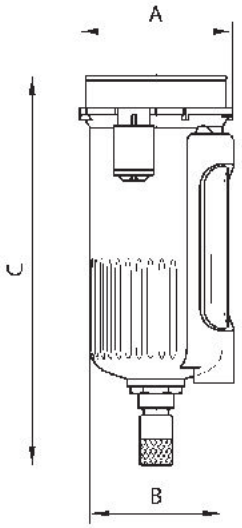


Fig. 4



Part No.	A	B	C
1827009334	M36x1,5	33.2	116
1827009335	M36x1,5	33.2	129
1827009340	42.5	33.2	116
1827009341	42.5	33.2	129

Reservoir, Series AS1-CLS

Filter reservoir volume: 16 cm³
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C

Condensate drain	Reservoir	Filter reservoir volume [cm³]	Fig.	Version	Part No.
fully automatic, open without pressure	Metal reservoir without window	16	Fig. 1	Metal reservoir without window	R412014751
semi-automatic, open without pressure	Metal reservoir without window	16	Fig. 2	Metal reservoir without window	1827009640
semi-automatic, open without pressure	reservoir, polycarbonate, without protective guard	16	Fig. 3	reservoir, polycarbonate, without protective guard	1827009639

Fig. 1

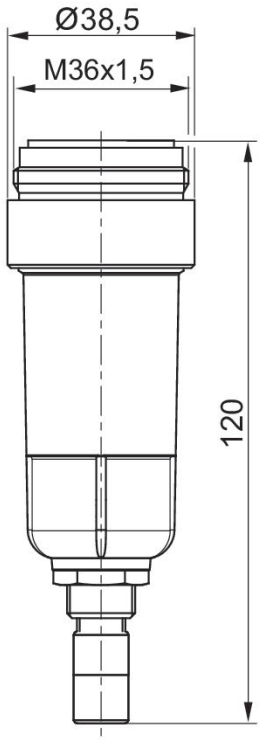


Fig. 2

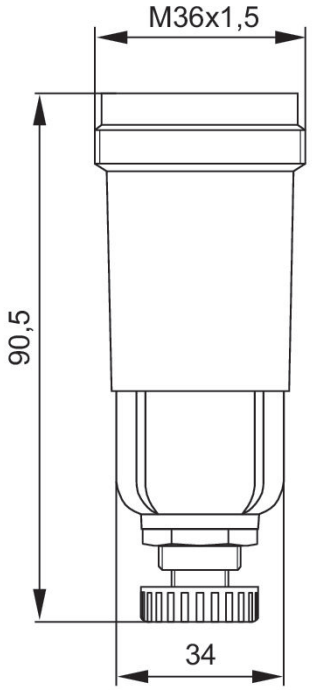
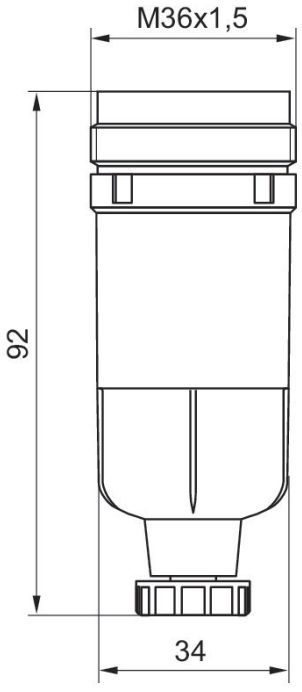


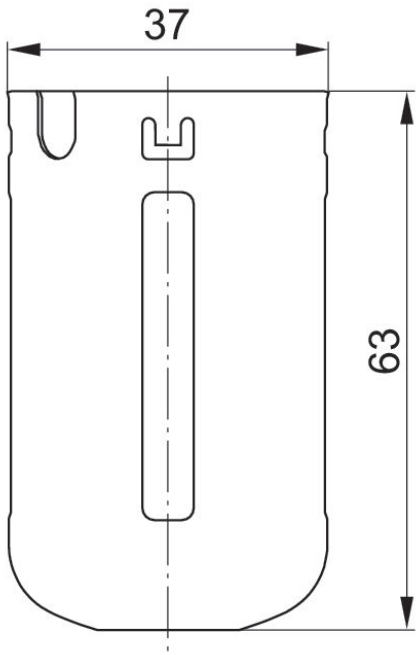
Fig. 3



Protective guard

Material	Weight [kg]	Part No.
Steel, chrome-plated	0.03	1820507004

Dimensions in mm



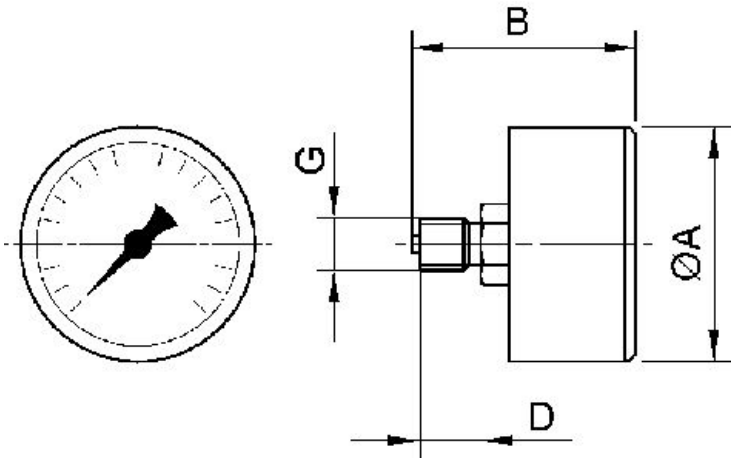
Pressure gauge, Series PG1-SNL

Type: Back port
Background color: Black
Scale color: Green
Material viewing window: Polystyrene
Main scale unit (outside): bar
Secondary scale unit (inside): psi
Standardization: EN 837-1

Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Min. working pressure [bar]	Max. working pressure [bar]	Part No.
40	G 1/8	-0.8	0	-1	0	-1	0	1827231053
40	G 1/8	0	1.7	0	2.5	0	2.5	1827231048
40	G 1/8	0	8	0	10	0	10	1827231024
40	G 1/8	0	12	0	16	0	16	1827231009

Scale value	Certification	Part No.
0.1		1827231053
0.1		1827231048
0.5	Suitable for ATEX	1827231024
0.5	Suitable for ATEX	1827231009

Dimensions



Dimensions in mm

Part No.	G	Nominal diameter	Ø A	B	D
1827231059	G 1/4	40 mm	41	41.5	10
1827231016	G 1/4	50 mm	49	47.5	13

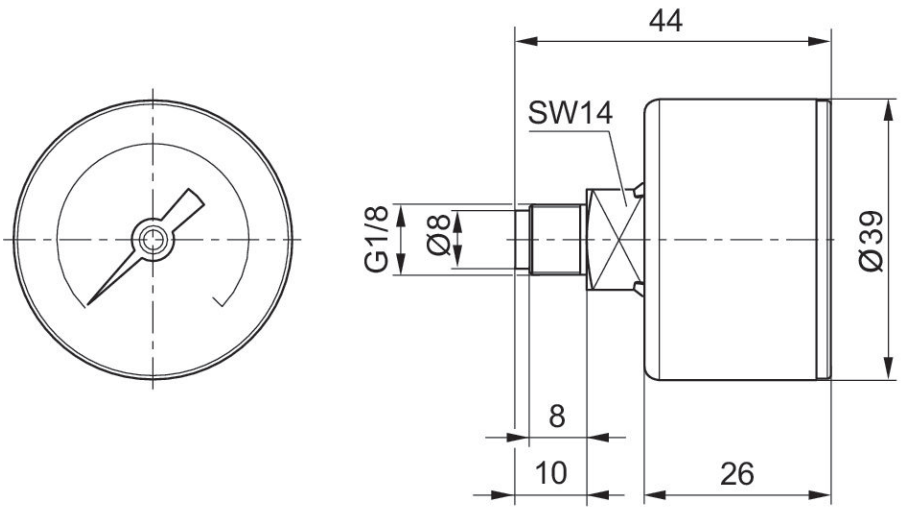
Pressure gauge, Series PG1-SNL

Background color: Black
Scale color: Green
Material viewing window: Polystyrene
Main scale unit (outside): bar
Secondary scale unit (inside): psi
Standardization: EN 837-1

Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Min. working pressure [bar]	Max. working pressure [bar]	Part No.
40	G 1/8	0	4	0	6	0	6	1827231018

Scale value	Certification	Part No.
0.2	Suitable for ATEX	1827231018

Dimensions in mm



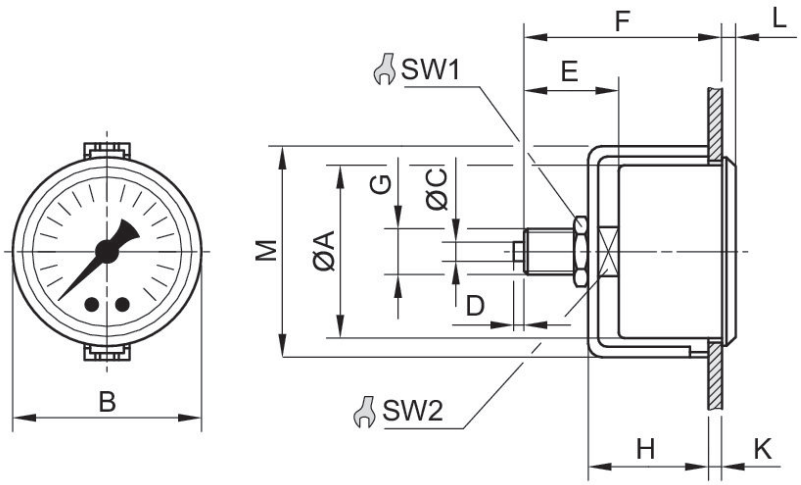
Pressure gauge, Series PG1-SNL

Type: Bourdon tube pressure gauge, For panel installation, with U-clip
Background color: Black
Scale color: Green
Material viewing window: Polystyrene
Main scale unit (outside): bar
Secondary scale unit (inside): psi
Standardization: EN 837-1

Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Min. working pressure [bar]	Max. working pressure [bar]	Part No.
40	G 1/8	-0.8	0	0	1	-1	0	1827231040
40	G 1/8	0	2	0	2.5	0	2.5	1827231042
40	G 1/8	0	4	0	6	0	6	1827231041
40	G 1/8	0	8	0	10	0	10	1827231030
40	G 1/8	0	12	0	16	0	16	1827231031

Scale value	Part No.
0.1	1827231040
0.1	1827231042
0.2	1827231041
0.5	1827231030
0.5	1827231031

Dimensions



Dimensions in mm

Part No.	Compressed air connection	Nominal diameter	Ø A	B	C	D	E	F	H
1827231031	G 1/8	40 mm	40	43	–	–	25.5	49	32
1827231035	G 1/4	50 mm	50	54	5	3	29.5	51.5	34.5
1827231039	G 1/4	63 mm	62	67	5	3	27	53	36.3

Part No.	K	L	M	SW1	SW2
1827231031	4	4	49	17	14
1827231035	3	4.5	61	17	14
1827231039	4.2	5.5	75	17	14

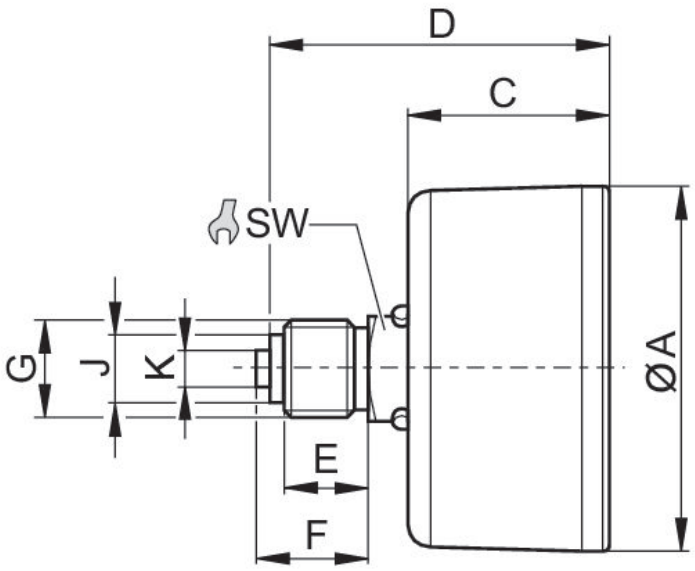
Pressure gauge, Series PG1-SNL-ADJ

Background color: White
Scale color: Black
Material viewing window: Polystyrene
Main scale unit (outside): bar
Standardization: EN 837-1

Nominal diameter [mm]	Port	Min. main scale range of application [bar]	Max. main scale range of application [bar]	Min. main scale display range [bar]	Max. main scale display range [bar]	Min. working pressure [bar]	Max. working pressure [bar]	Part No.
50	G 1/8	0	1.2	0	1.6	0	1.6	1827231075
50	G 1/8	0	2	0	2.5	0	2.5	1827231076
50	G 1/8	0	3.2	0	4	0	4	1827231077
50	G 1/8	0	4	0	6	0	6	1827231078
50	G 1/8	0	8	0	10	0	10	1827231079
50	G 1/8	0	12	0	16	0	16	1827231080

Scale value	Part No.
0.05	1827231075
0.1	1827231076
0.2	1827231077
0.2	1827231078
0.5	1827231079
0.5	1827231080

Dimensions



Part No.	Compressed air connection	Nominal diameter	Ø A	C	D	E	F	J	K
1827231075	G 1/8	50 mm	49	26.5	41.5	8	10	8	–
R412003474	G 1/4	50 mm	49	26.5	44.5	11	15	9.5	5

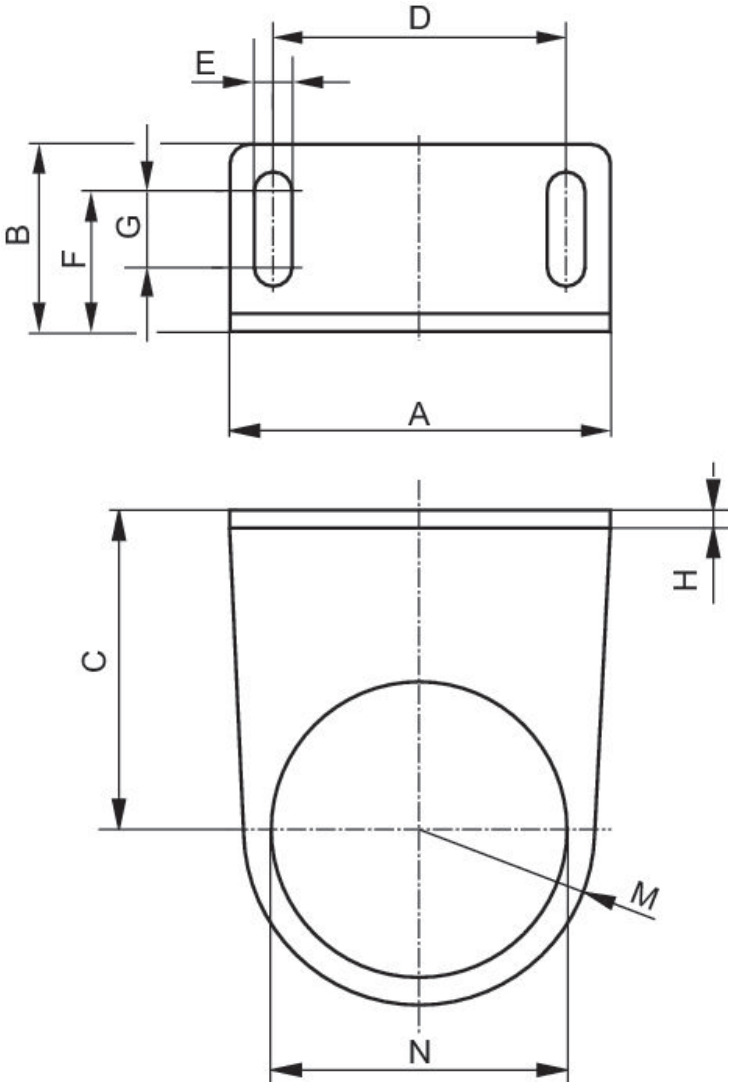
Part No.	SW
1827231075	14
R412003474	14

Mounting bracket, Series NL1/NL2-MBR-...-W02

Ambient temperature min./max.: -40 °C ... 60 °C

Material	Part No.
Steel, chrome-plated	1821331013

Dimensions

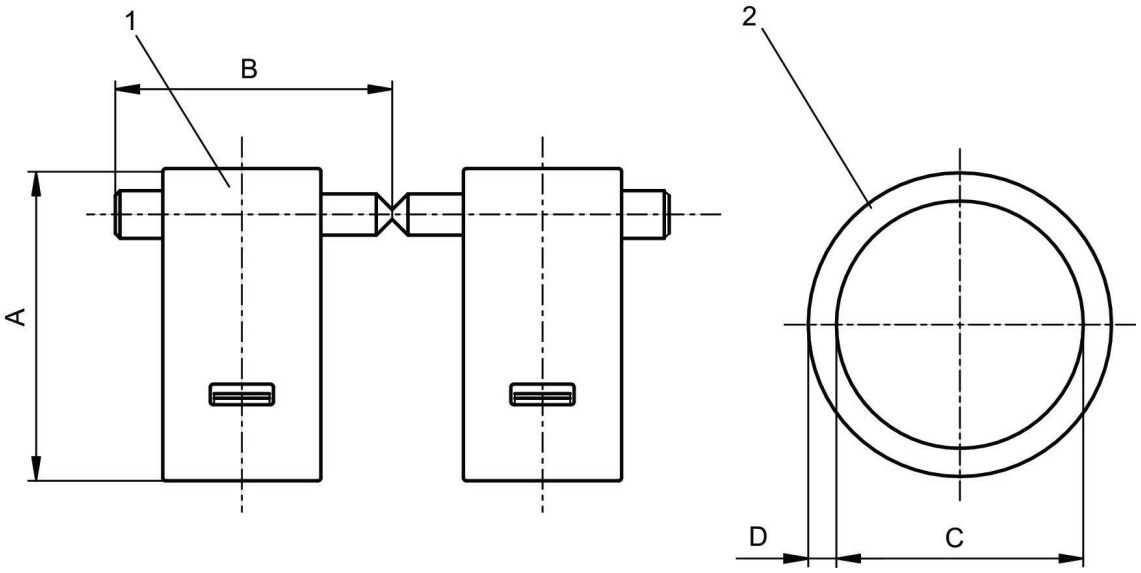


Part No.	A	B	C	D	E	F	G	H	M
1821331013	48	27	43.5	38	5.4	18.5	8	3	20

Part No.	N
1821331013	30.5

Block assembly kit, Series NL1-MBR-...-W04

Material	Weight [kg]	Part No.
Polyamide	0.02	1827009636

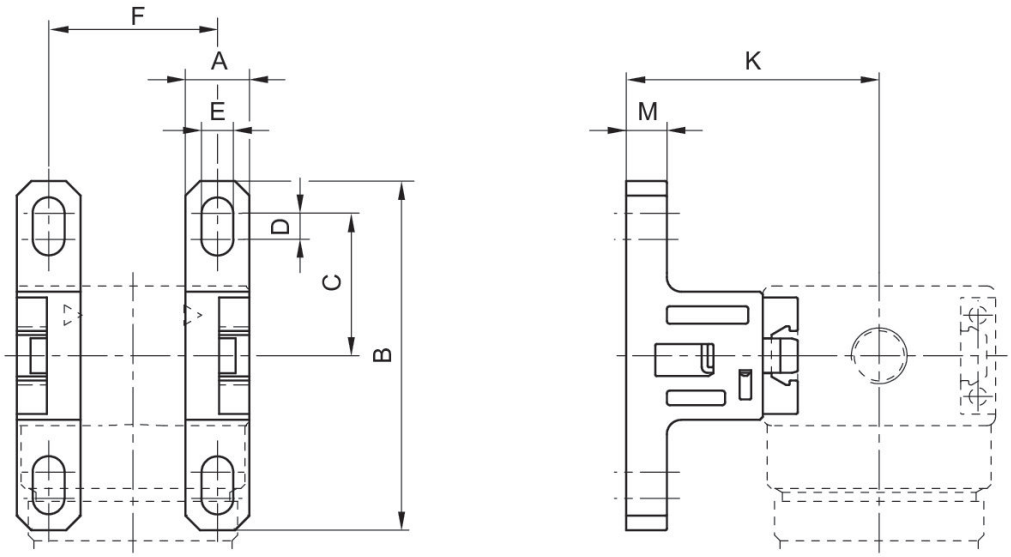


1) coupling clamp 2) O-ring

Part No.	A	B	C	D
1827009636	19.7	17.5	15.6	1.78

Mounting kit, Series NL1-MBR-...-W05

Material	Part No.
Polyamide	1821336024

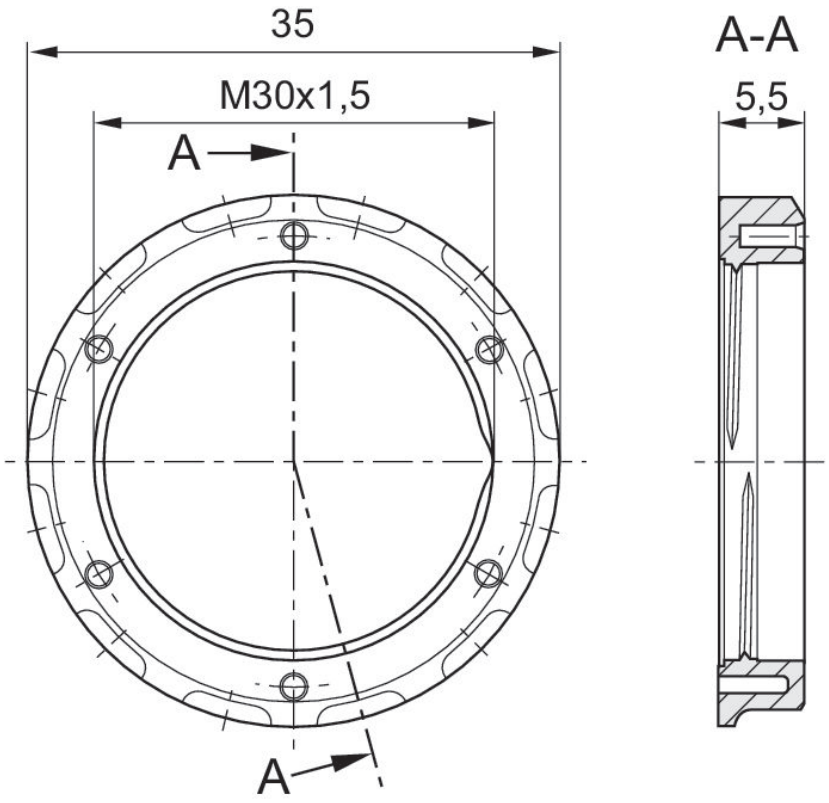


Part No.	A	B	C	D	E	F	K	M
1821336024	11	60	24.5	4.5	5.5	29	43.5	7

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

Port	Material	Scope of delivery [piece]	Part No.
M30x1,5	Brass	5	1829234070

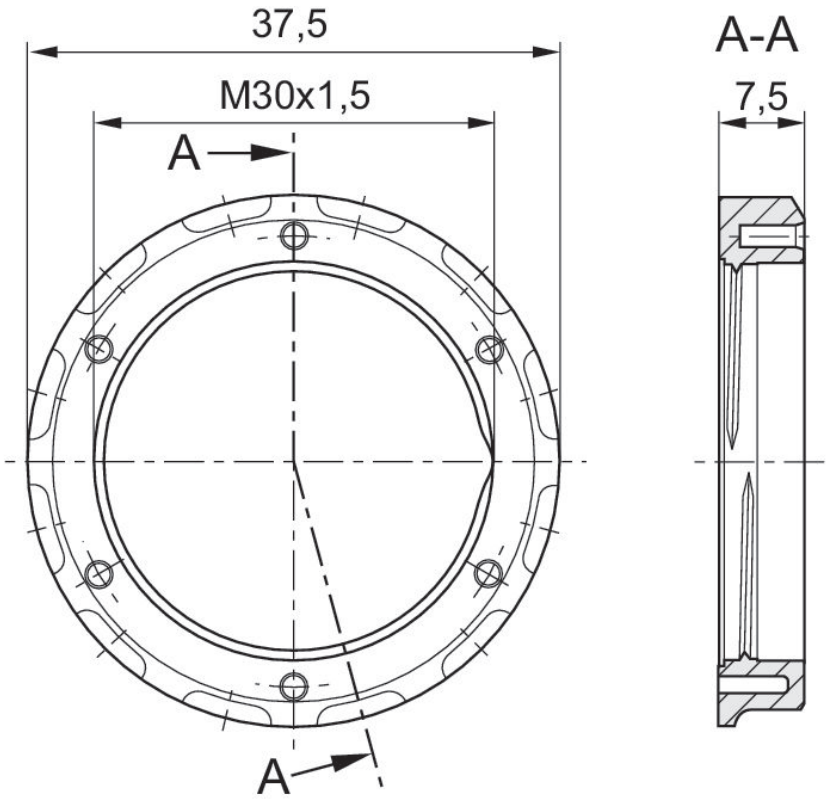
Dimensions in mm



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

Port	Material	Scope of delivery [piece]	Part No.
M30x1,5	Plastic	5	1829234073

Dimensions



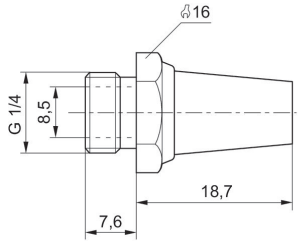
AVENTICS Series SI1 Silencers

Compressed air connection type: External thread
Silencer material: Sintered bronze
Ambient temperature min./max.: -25 °C ... 80 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	98	5950	10	0.013	R412004817
G 1/4	79	3390	10	0.02	1827000001

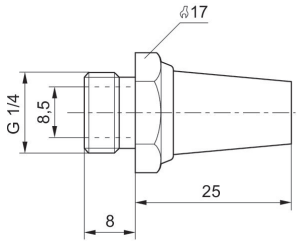
R412004817

Dimensions in mm



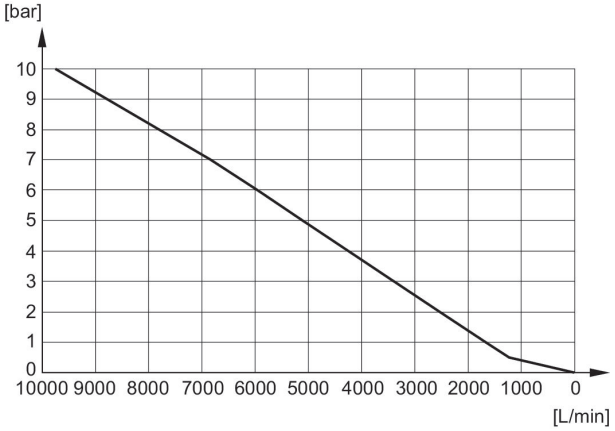
1827000001

Dimensions in mm



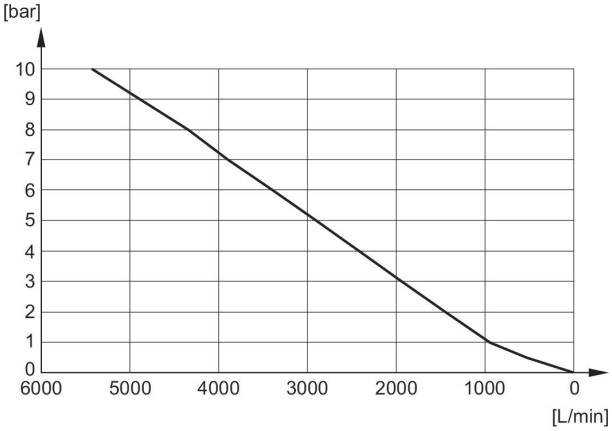
Flow diagram

R412004817



Flow diagram

1827000001

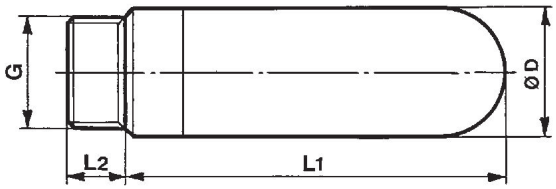


AVENTICS Series SI1 Silencers

Compressed air connection type: External thread
Silencer material: Polyethylene
Ambient temperature min./max.: -25 °C ... 80 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	80	3447	5	0.003	1827000020

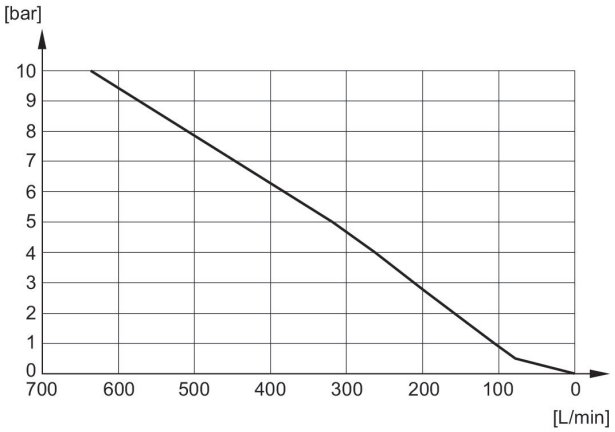
Dimensions



Part No.	Port G	Ø D	L1	L2
1827000018	M5	6.5	17.5	4
1827000019	G 1/8	12.5	28.5	5.5
1827000020	G 1/4	15.5	34.5	8
1827000021	G 3/8	18.5	56	11.5
1827000022	G 1/2	23.3	66.5	11
1827000023	G 3/4	38.5	115.5	16
1827000024	G 1	49	140	21

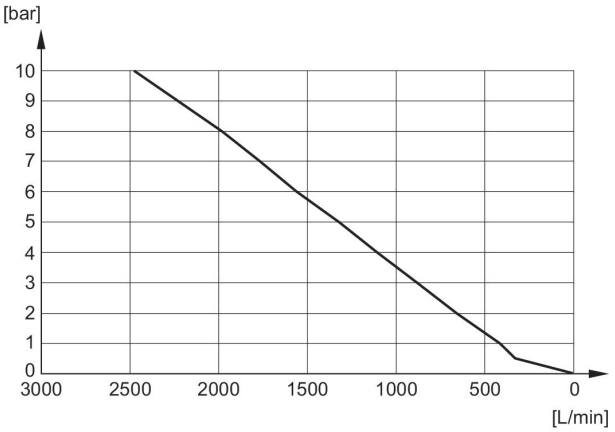
Flow diagram

1827000018



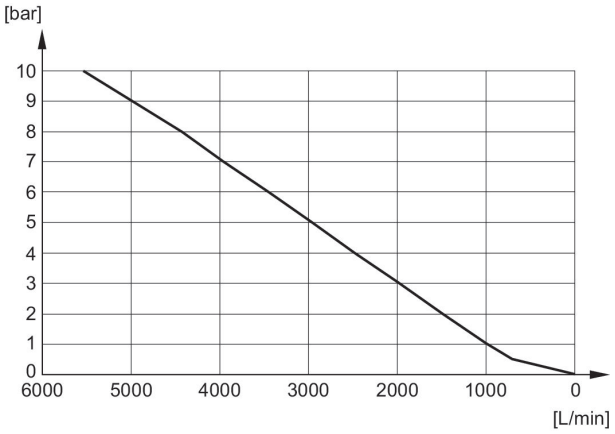
Flow diagram

1827000019



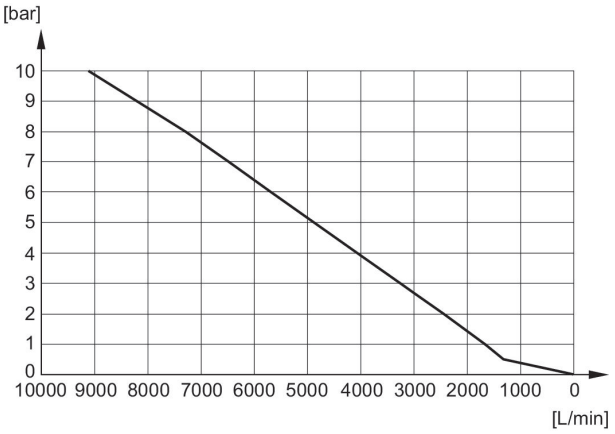
Flow diagram

1827000020



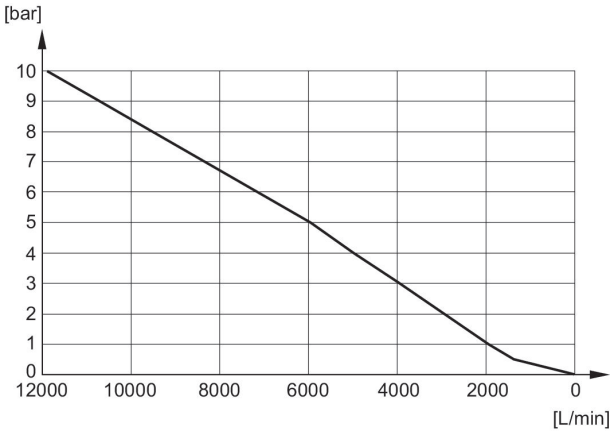
Flow diagram

1827000021



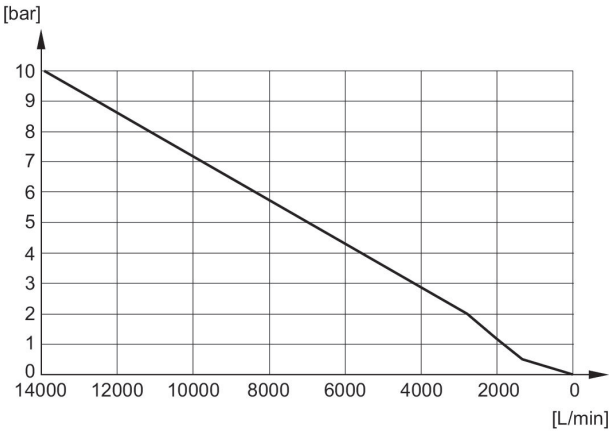
Flow diagram

1827000022



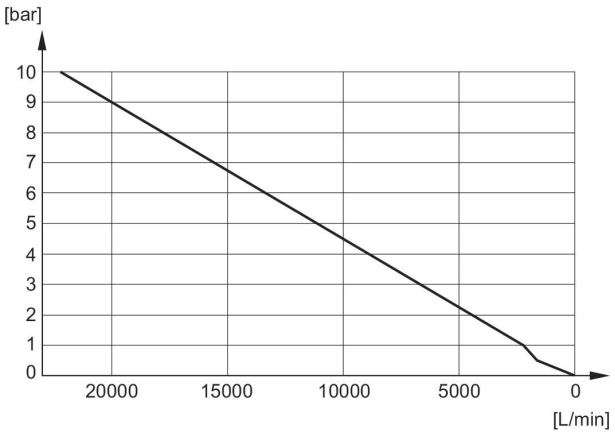
Flow diagram

1827000023



Flow diagram

1827000024

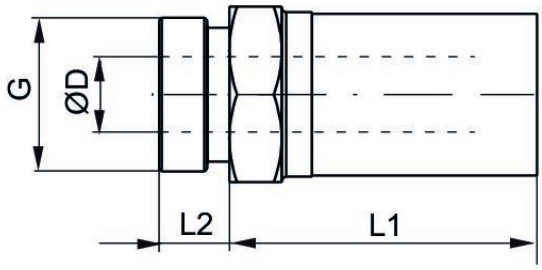


AVENTICS Series SI1 Silencers

Compressed air connection type: External thread
Silencer material: Stainless Steel
Ambient temperature min./max.: -20 °C ... 150 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	93	1852	1	0.021	R412010082

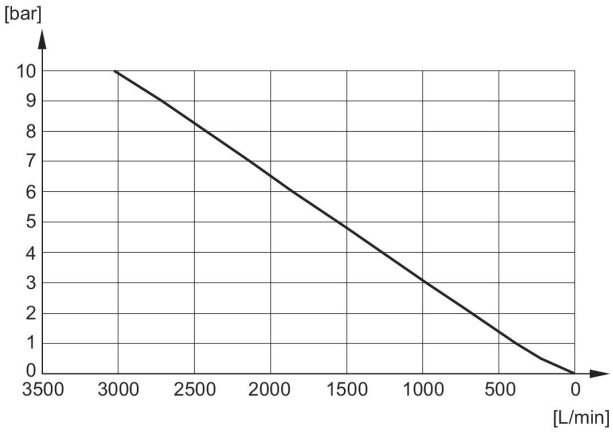
Dimensions



Part No.	Port G	SW	Ø D	L1	L2
R412010090	M5	9	3.1	16.5	5
R412010081	G 1/8	12	6.6	21.5	7
R412010082	G 1/4	15	8.6	24	9
R412010083	G 3/8	19	12.1	31	9
R412010084	G 1/2	23	15.3	38.5	9.5
R412010085	G 3/4	30	19.3	47.5	11
R412010086	G 1	36	25.5	56	15

Flow diagram

R412010082

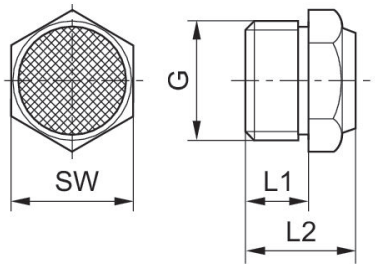


AVENTICS Series SI1 Silencers

Compressed air connection type: External thread
Silencer material: Sintered bronze
Ambient temperature min./max.: -25 °C ... 80 °C
Working pressure min./max.: 0 bar ... 10 bar

G	Sound pressure level [dB]	Nominal flow [l/min]	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	88	1116	10	0.01	1827000033

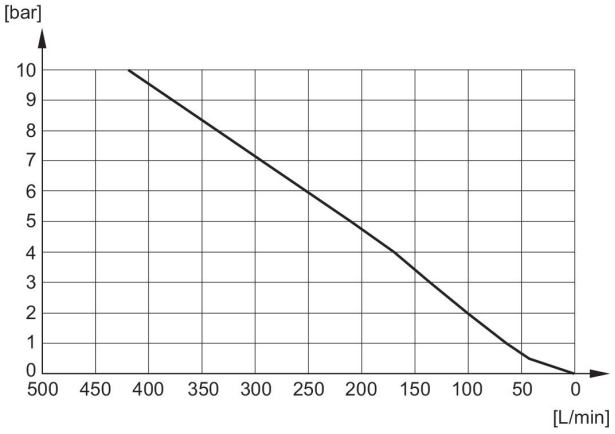
Dimensions



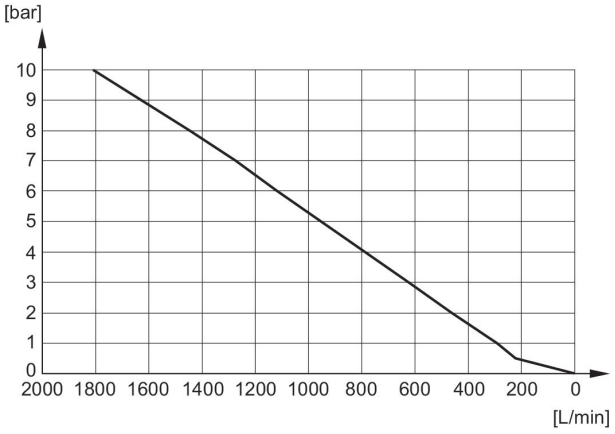
Part No.	Port G	L1	L2	SW
1827000032	M5	5	10.3	7
1827000031	G 1/8	6	11.5	13
1827000033	G 1/4	8	13.5	17
1827000034	G 3/8	10	17.5	22
1827000035	G 1/2	12	19.5	27
8145003400	G 3/4	14	22.5	32
8145001000	G 1	16	22.5	41

Sound pressure level measured at 6 bar at 1 m distance

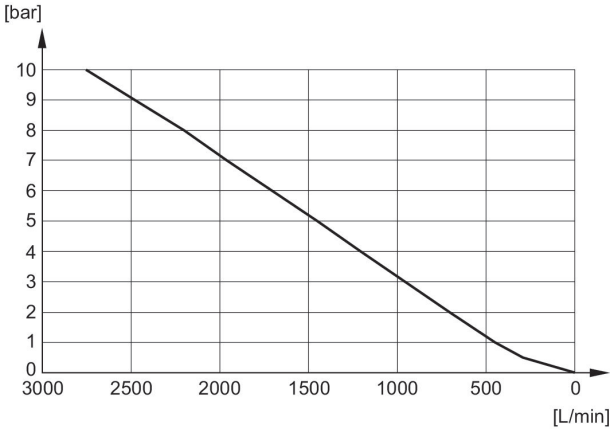
Flow diagram1827000032



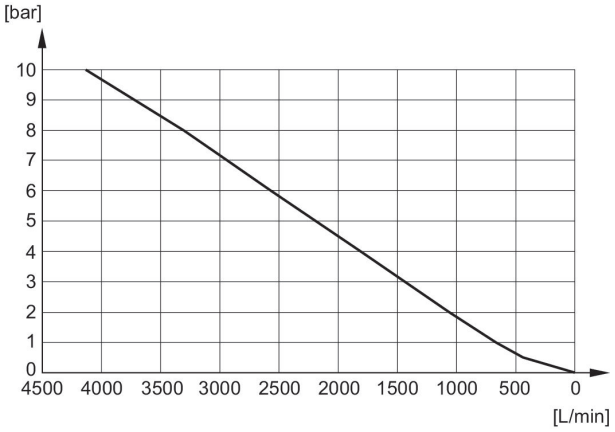
Flow diagram 1827000033



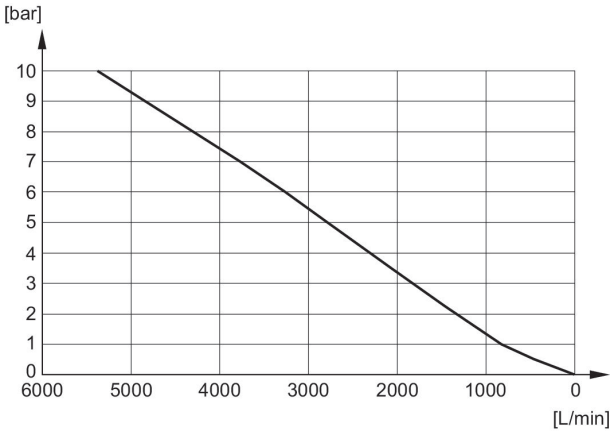
Flow diagram 1827000034



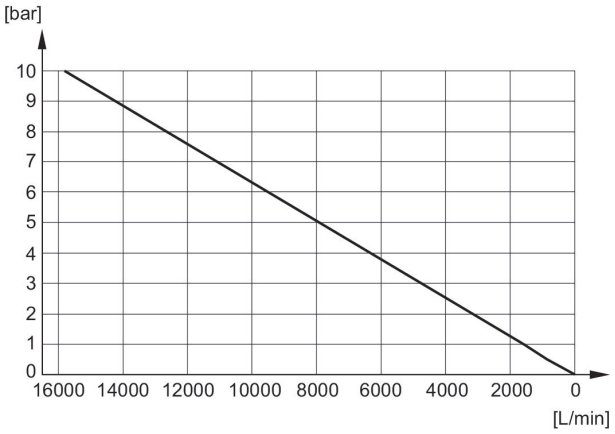
Flow diagram 1827000035



Flow diagram 8145003400

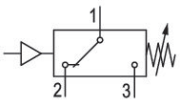


Flow diagram 8145001000



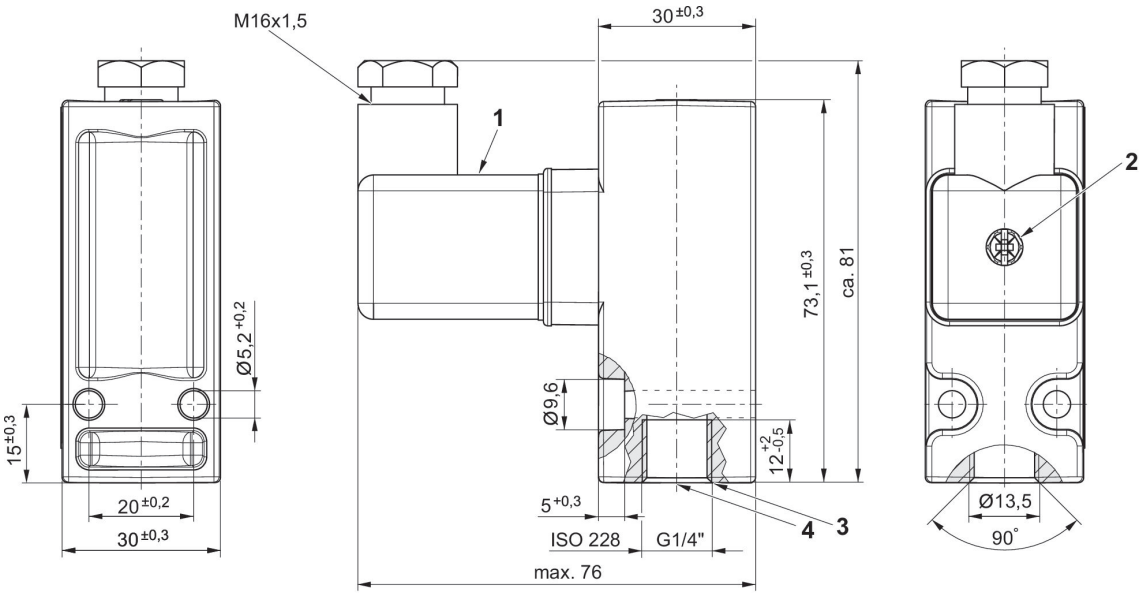
Pressure Switches, Series PM1

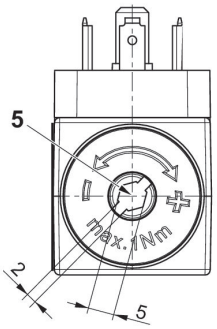
Compressed air connection type: Internal thread
Electrical connection 2, thread size: EN 175301-803, form A
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	-0.9	0	80 bar	max. switching pressure difference	Any	R412010711
G 1/4	0.2	16	80 bar	max. switching pressure difference	Any	R412010713
G 1/4	-0.9	3	80 bar	max. switching pressure difference	Any	R412022752

Dimensions in mm





1) Valve plug connector
2) Mounting screw
3) sealing surface
4) Tightening torque MA = 12 + 1 Nm
5) Adjustment screw, self-holding

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

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

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

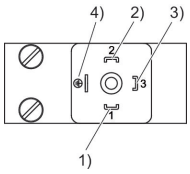
Max. permissible continuous current I max. [A] with inductive load

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

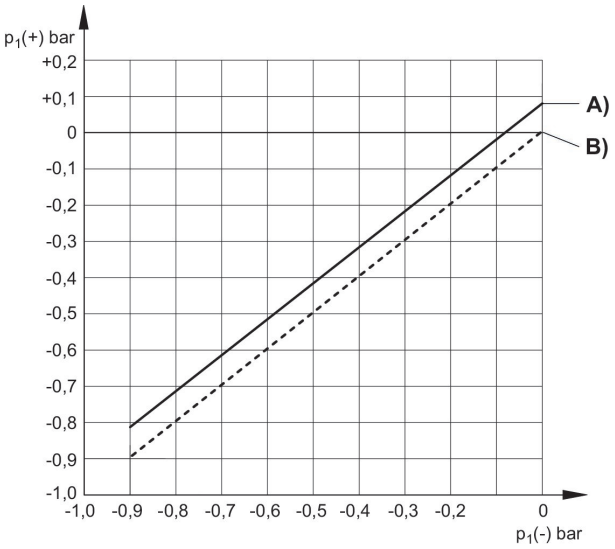
R412010711, R412010713, R412022752

PIN assignment for valve plug connectors



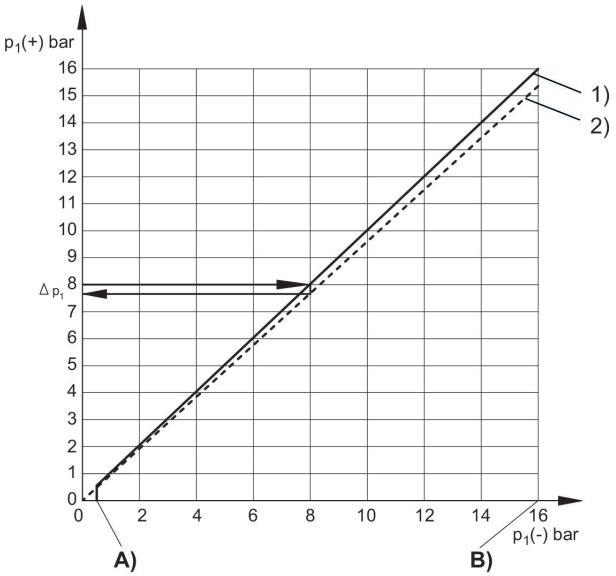
Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

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



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

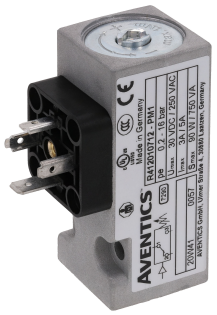
Differential switching pressure characteristic curve (0,2 - 16 bar)

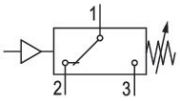


A) p1 (-), min.
B) p1 (-), max.
1) Rising
2) Falling
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
Δ p1 = max. operating pressure difference or hysteresis Example: p1 (+) = 8 bar > p1(-) = 7.6 bar Δ p1 = 0.4 bar

Pressure Switches, Series PM1

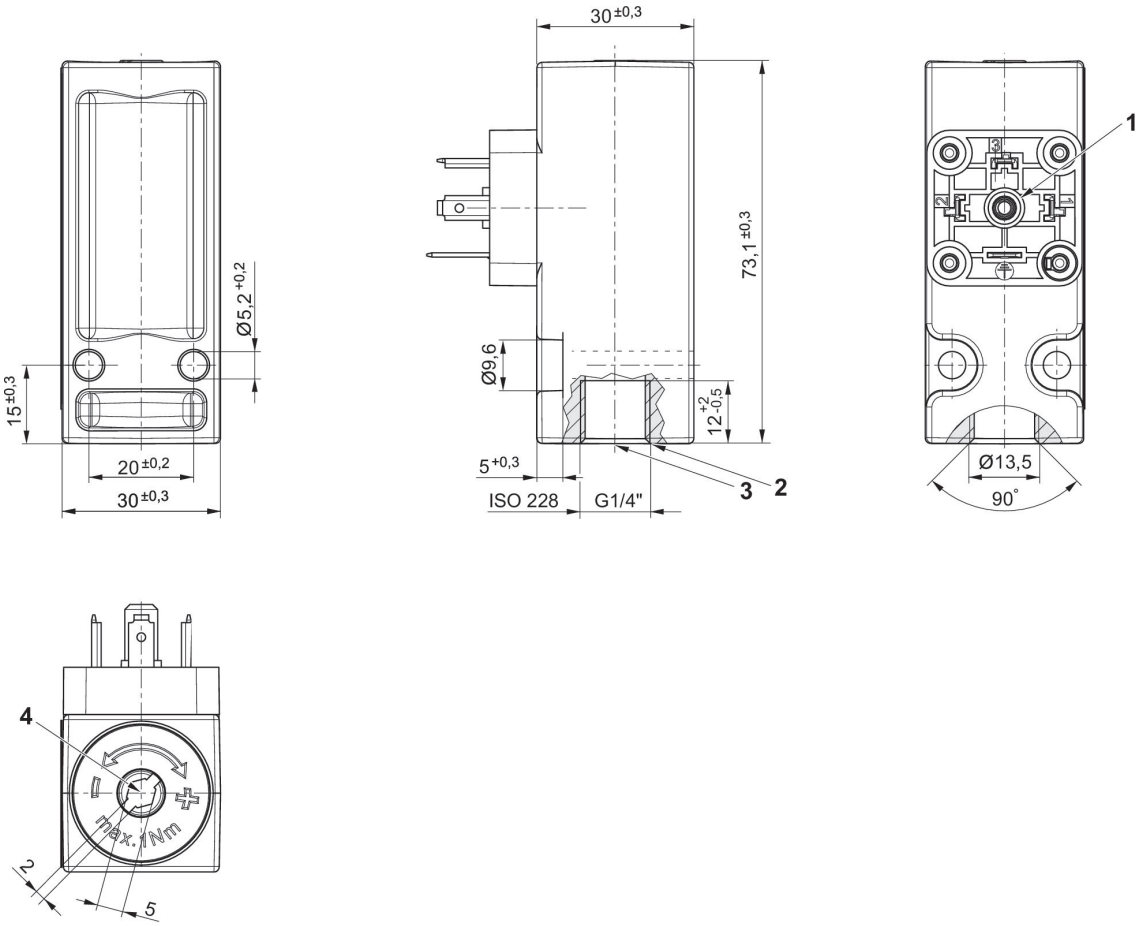
Compressed air connection type: Internal thread
Electrical connection 2, thread size: EN 175301-803, form A
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	0.2	16	80 bar	max. switching pressure difference	Any	R412010712

Dimensions in mm



1) Mounting screw
2) sealing surface
3) Tightening torque MA = 12 + 1 Nm
4) adjustment screw

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

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	3	-
30 / 48 / 60 / 125	-	2 / 0,55 / 0,4 / 0,05

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

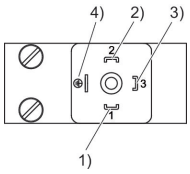
Max. permissible continuous current I max. [A] with ohmic load

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

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

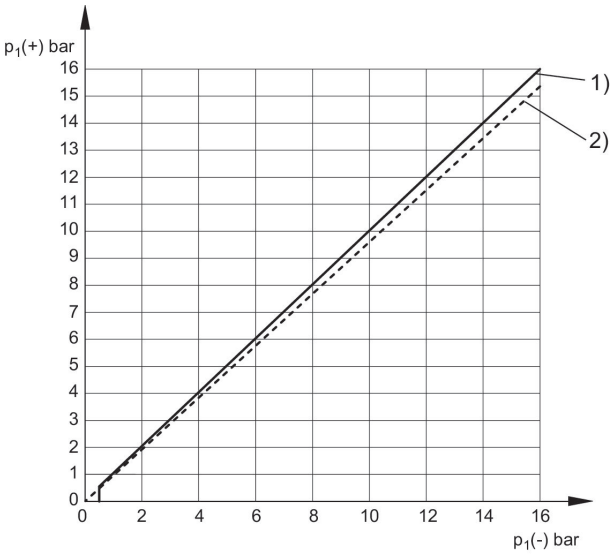
R412010712

PIN assignment for valve plug connectors



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

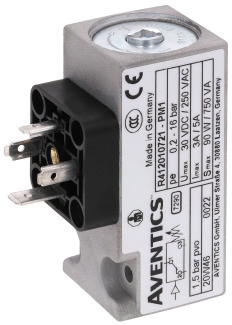
Differential switching pressure characteristic curve (0,2 - 16 bar)

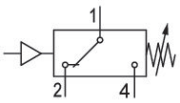


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure Switches, Series PM1

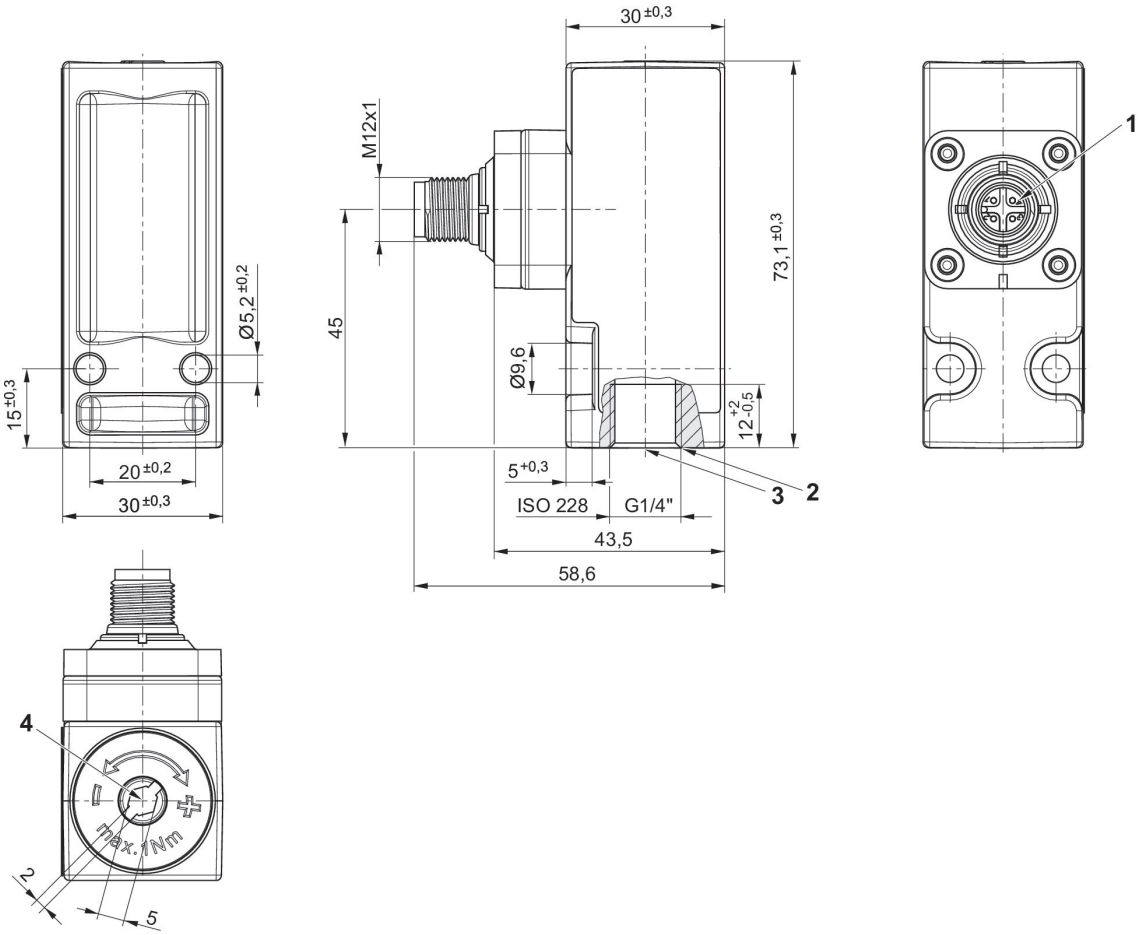
Compressed air connection type: Internal thread
Electrical connection 2, thread size: M12x1
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	0.2	16	80 bar	max. switching pressure difference	Any	R412010717

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) sealing surface
3) Tightening torque MA = 12 + 1 Nm
4) adjustment screw

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

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

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

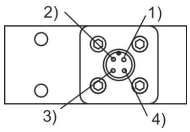
U [V]	I [A] 1)	I [A] 2)
30	4	3

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

R412010717

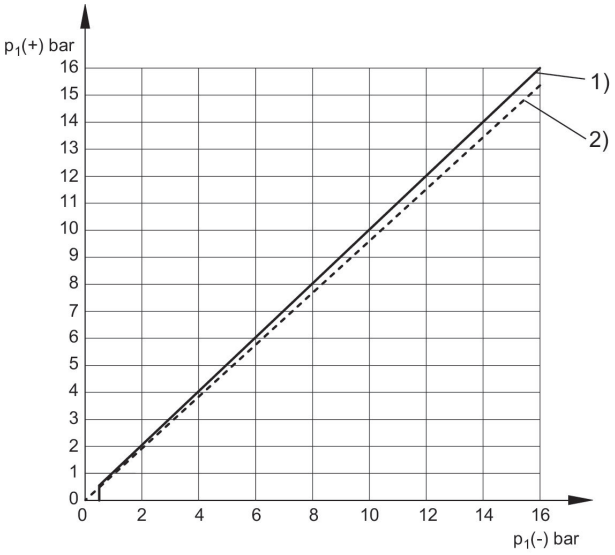
Pin assignments

M12x1



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

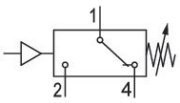
Differential switching pressure characteristic curve (0,2 - 16 bar)



p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

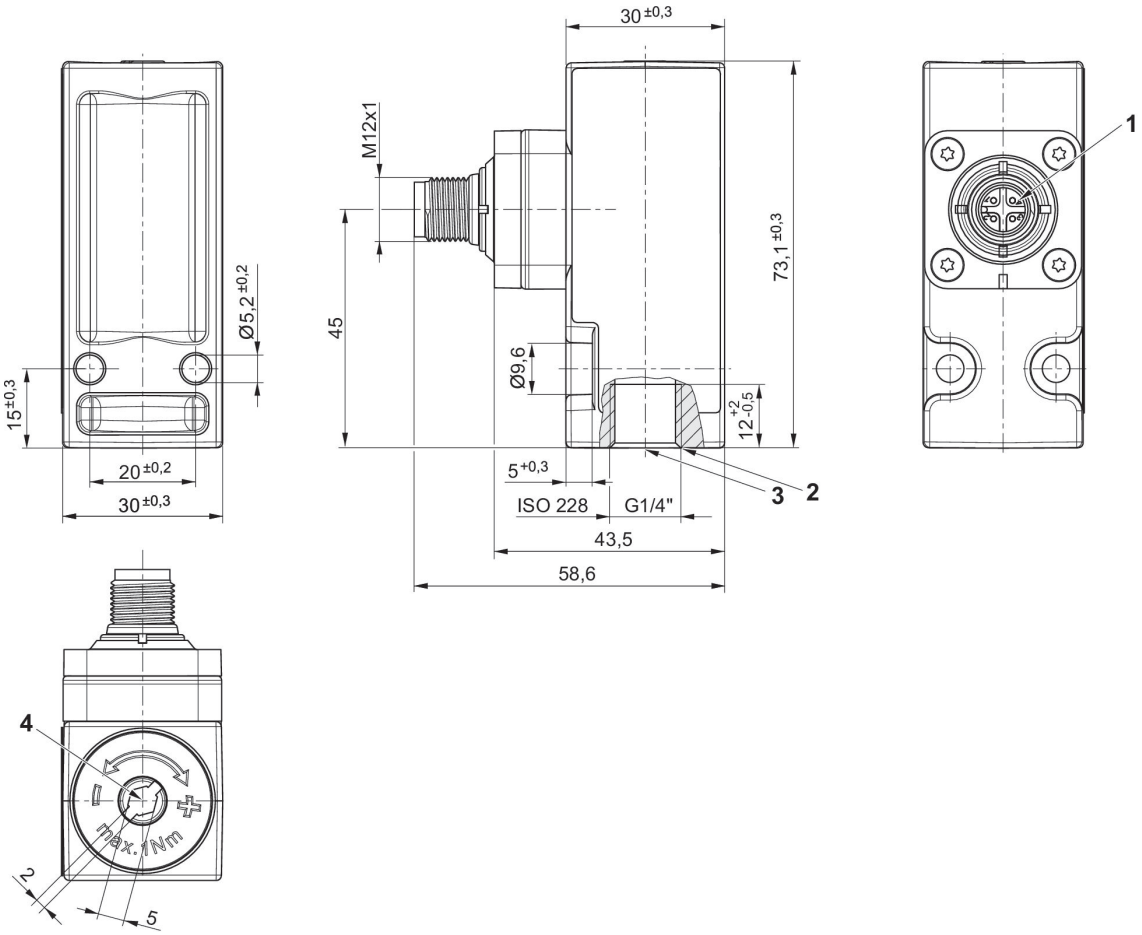
Pressure Switches, Series PM1

Compressed air connection type: Internal thread
Electrical connection 2, thread size: M12x1
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
G 1/4	-0.9	0	80 bar	max. switching pressure difference	Any	R412010716

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) sealing surface
3) Mounting screw
4) Adjustment screw, self-holding

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

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

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

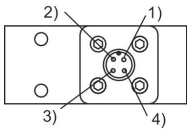
U [V]	I [A] 1)	I [A] 2)
30	4	3

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC

R412010716

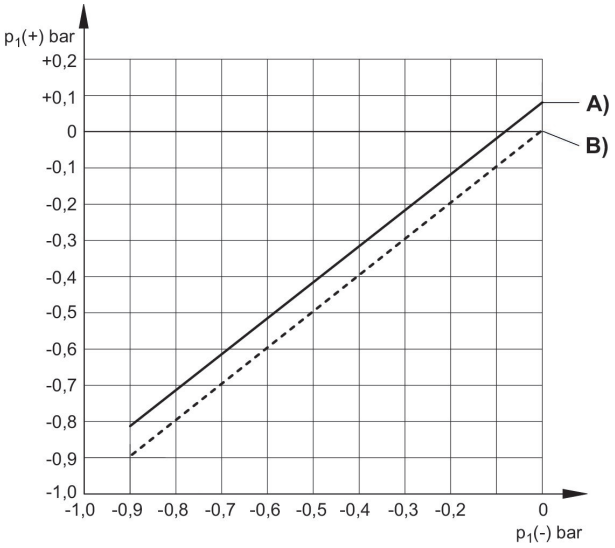
Pin assignments

M12x1



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

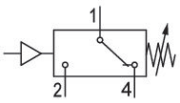
Differential switching pressure characteristic curve (-0,9 – 0 bar)



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

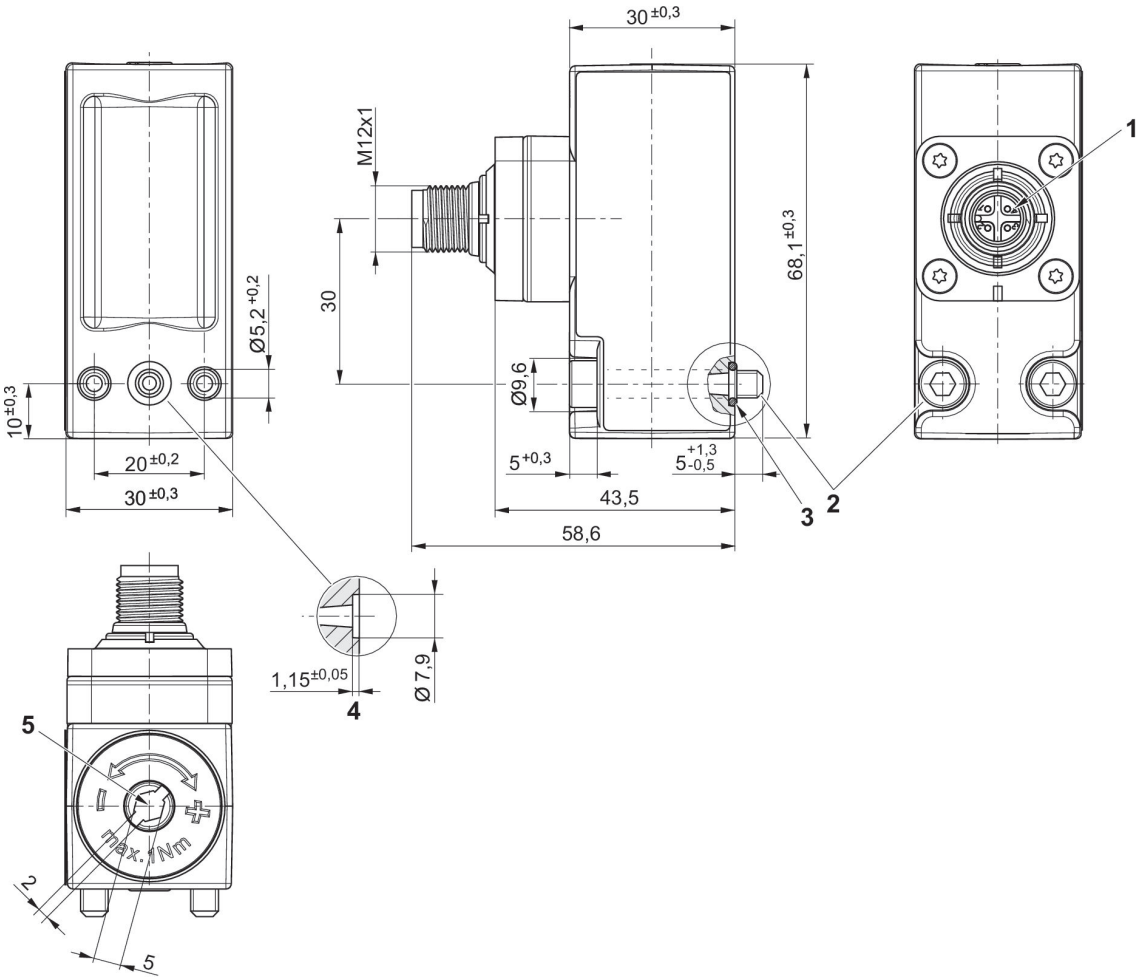
Pressure Switches, Series PM1

Compressed air connection type: Flange with O-ring
Electrical connection 2, thread size: M12x1
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
Ø 5x1,5	-0.9	0	80 bar	max. switching pressure difference	Any	R412010719

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) cylinder screw M5x30 (included in scope of delivery)
3) O-ring Ø5x1,5 (included)
4) O-ring countersink
5) Adjustment screw, self-holding

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

U [V]	I [A] 1) 3)	I [A] 2) 4)
30	3	2

reference cycle: 30/min., reference temperature: +30 °C
1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

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

U [V]	I [A] 1)	I [A] 2)
30	4	3

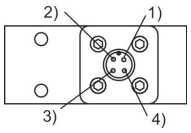
reference cycle: 30/min., reference temperature: +30 °C
1) AC

2) DC

R412010719

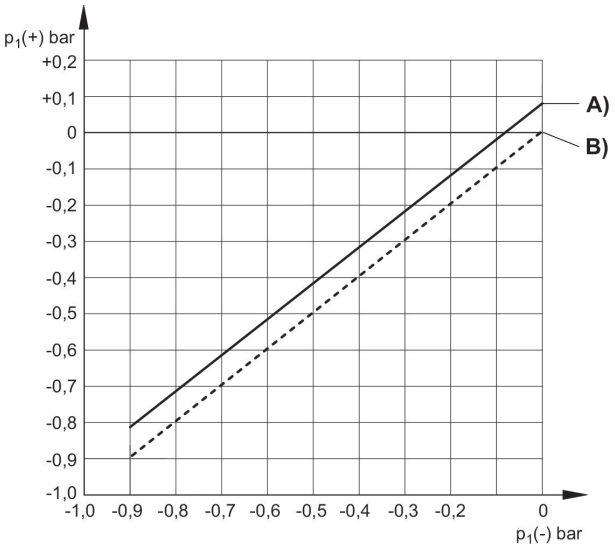
Pin assignments

M12x1



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

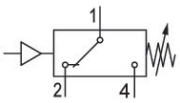
Differential switching pressure characteristic curve (-0,9 – 0 bar)



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

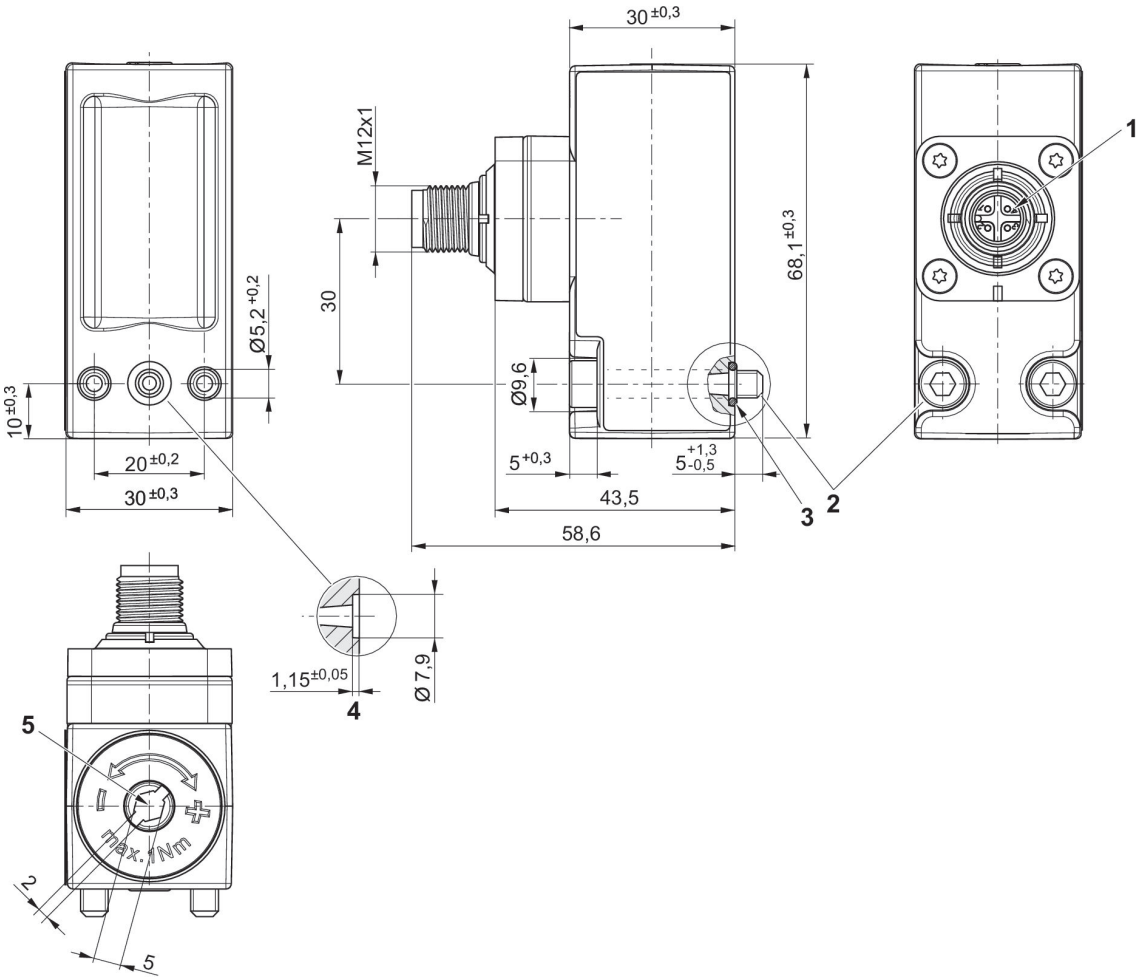
Pressure Switches, Series PM1

Compressed air connection type: Flange with O-ring
Electrical connection 2, thread size: M12x1
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Protection against overpressure	Hysteresis	Mounting orientation	Part No.
Ø 5x1,5	0.2	16	80 bar	max. switching pressure difference	Any	R412010720

Dimensions in mm



1) M12 connection rotatable by 90° and 30° with detent
2) cylinder screw M5x30 (included in scope of delivery)
3) O-ring Ø5x1,5 (included)
4) O-ring countersink
5) adjustment screw

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

U [V]	I [A] 1)	I [A] 2)
30-250	5	-
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	3	2

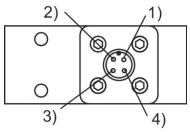
reference cycle: 30/min., reference temperature: +30 °C

1) AC
2) DC
3) cos ≈ 0,7°
4) L/R ≈ 10 ms

R412010720

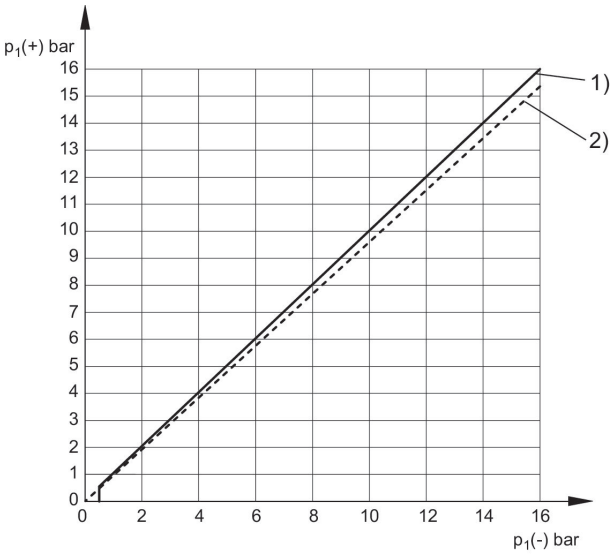
Pin assignments

M12x1



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

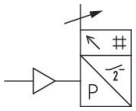
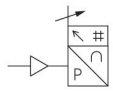
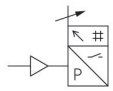
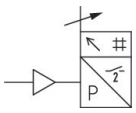
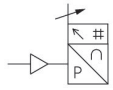
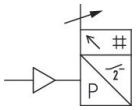
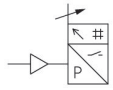
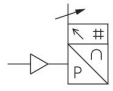
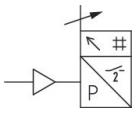
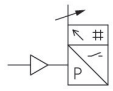
Differential switching pressure characteristic curve (0,2 - 16 bar)

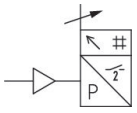
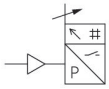


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure sensor, Series PE5, push-in fitting

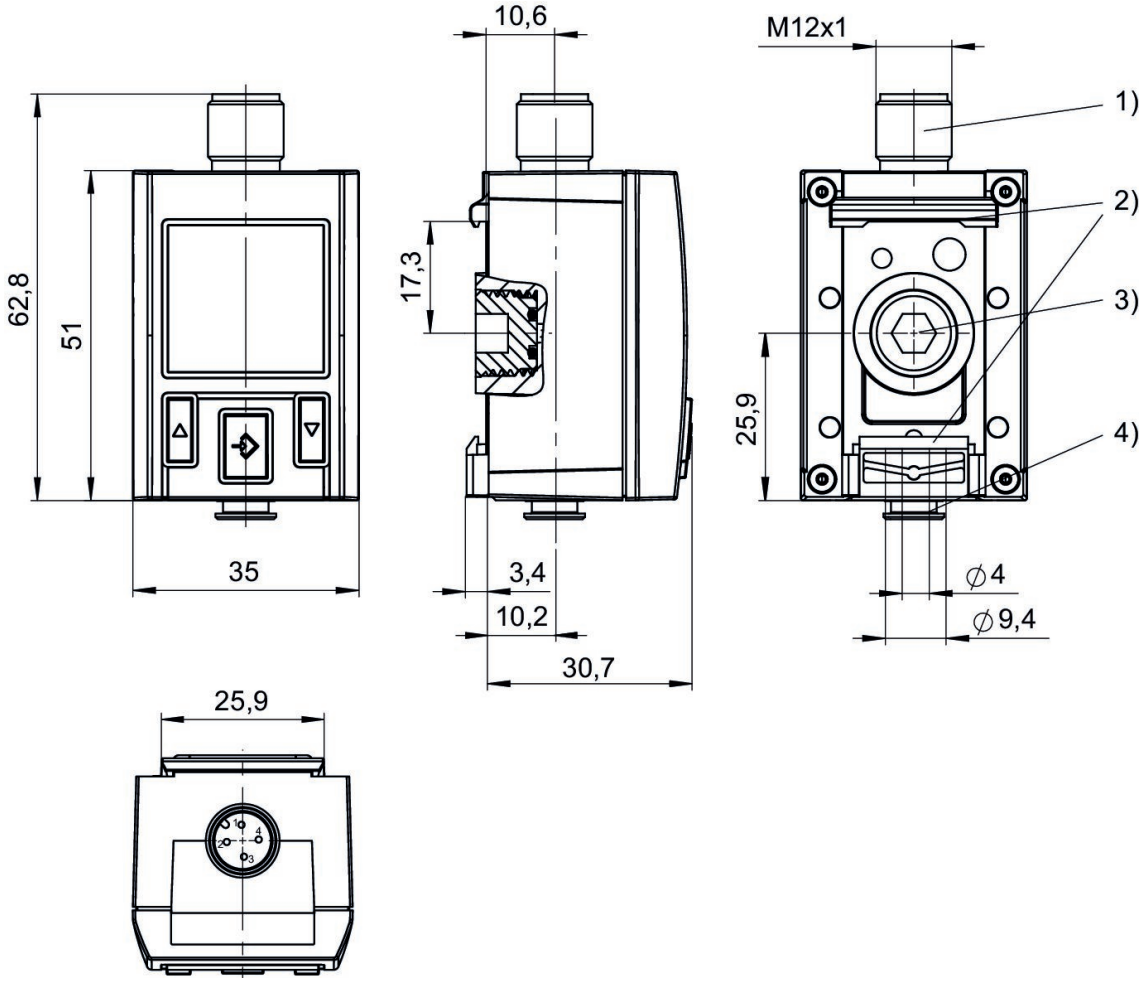
Certificates: CE declaration of conformity, cULus, RoHS, Conforms with REACH, Free of substances that impair surface wetting in the coating process
Electrical connection 2, type: Plug
Electrical connection 2, thread size: M12x1
Electrical connection 2, number of poles: 4-pin
Ambient temperature min./max.: 0 °C ... 60 °C
Medium temperature min./max.: 0 °C ... 60 °C

	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Protection against overpressure	Output signal digital	Part No.
	G 1/4	-1	0	17	30	5 bar	2 x PNP, NPN, Push-pull	R412010761
	G 1/4	-1	0	17	30	5 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 ... 20 mA	R412010769
	G 1/4	-1	0	17	30	5 bar	PNP, NPN, push-pull, 1x IO-Link	R412010775
	G 1/4	-1	1	17	30	5 bar	2 x PNP, NPN, Push-pull	R412010763
	G 1/4	0	6	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 ... 20 mA	R412010771
	G 1/4	0	6	17	30	15 bar	2 x PNP, NPN, Push-pull	R412010765
	G 1/4	0	6	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	R412010777
	G 1/4	0	10	17	30	15 bar	PNP, NPN, Push-pull, 0 - 10 V DC, 4 ... 20 mA	R412010773
	G 1/4	0	10	17	30	15 bar	2 x PNP, NPN, Push-pull	R412010767
	G 1/4	0	10	17	30	15 bar	PNP, NPN, push-pull, 1x IO-Link	R412010779

	Thread connection	Operating pressure min [bar]	Operating pressure max [bar]	Min. operating voltage DC [V DC]	Max. operating voltage DC [V DC]	Protection against overpressure	Output signal digital	Part No.
	G 1/4	0	12	17	30	16 bar	2 x PNP, NPN, Push-pull	R412010782
	G 1/4	0	12	17	30	16 bar	PNP, NPN, push-pull, 1x IO-Link	R412010806

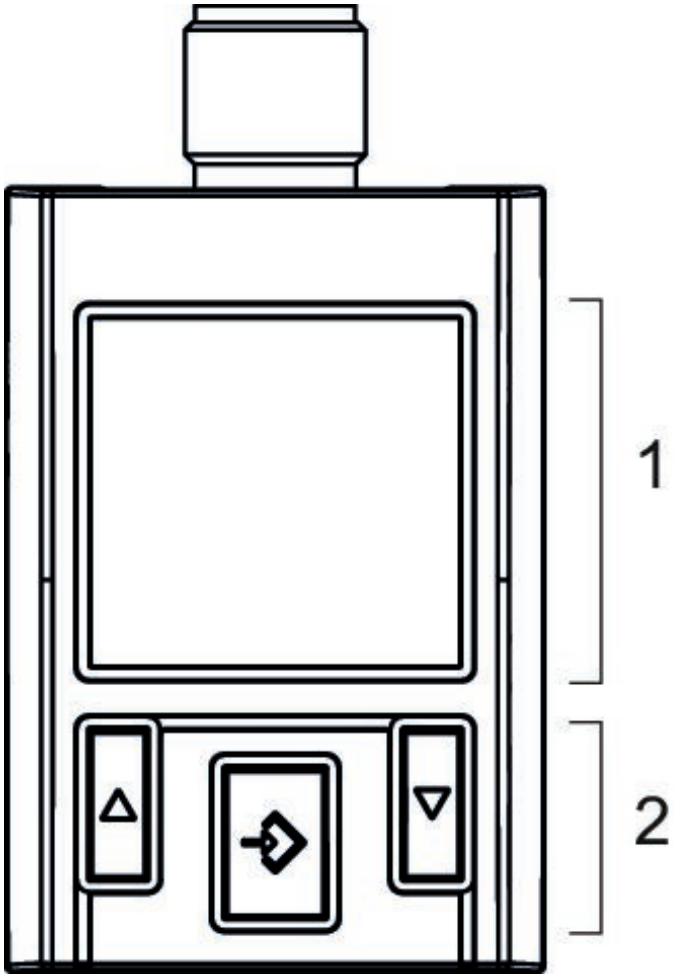
Hysteresis	Part No.
adjustable	R412010761
adjustable	R412010769
adjustable	R412010775
adjustable	R412010763
adjustable	R412010771
adjustable	R412010765
adjustable	R412010777
adjustable	R412010773
adjustable	R412010767
adjustable	R412010779
adjustable	R412010782
adjustable	R412010806

Dimensions



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

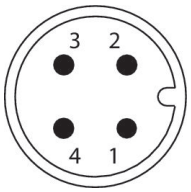


1) LCD display
2) Control panel with 3 buttons

R412010761, R412010769, R412010775, R412010763, R412010771, R412010765, R412010777, R412010773, R412010767, R412010779, R412010782, R412010806

Pin assignments

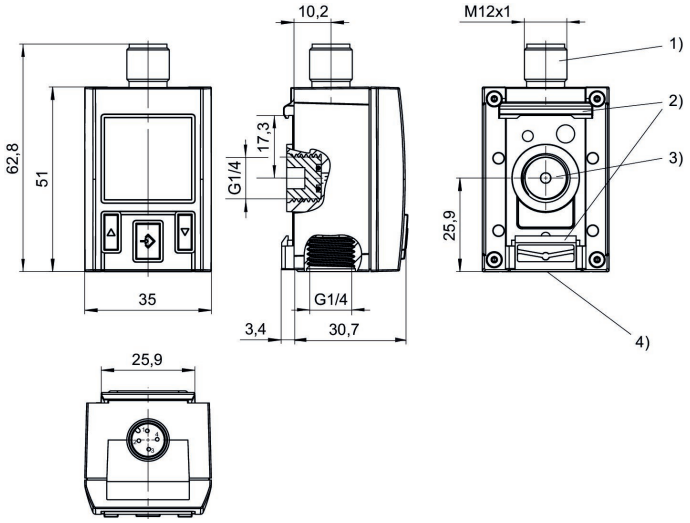
M12x1



Pin	Allocation
1	operational voltage + UB
2	switch output Out2, analog: A or V, digital: PNP, NPN, push-pull
3	0 V
4	switch output Out1, digital: PNP, NPN, push-pull

R412010761, R412010769, R412010775, R412010763, R412010771, R412010765, R412010777, R412010773, R412010767, R412010779, R412010782, R412010806

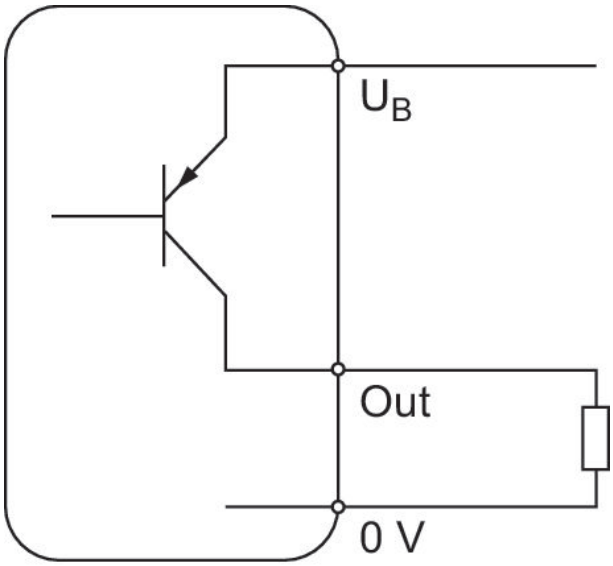
Dimensions



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

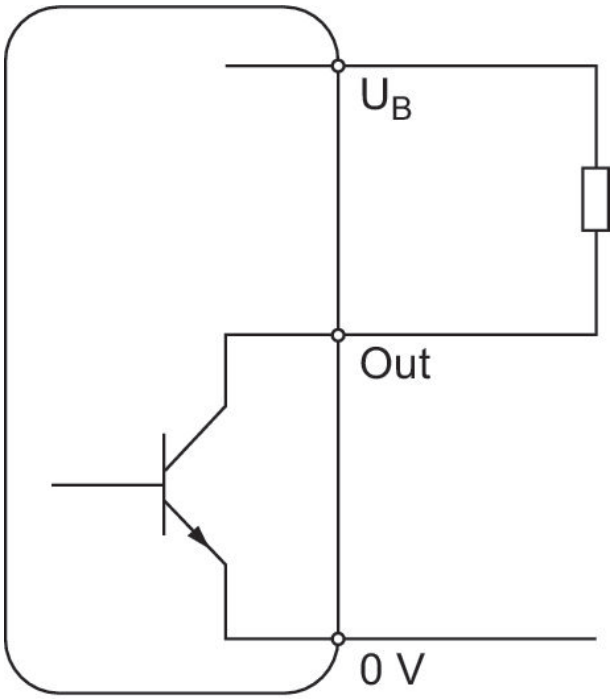
Operating mode

PNP



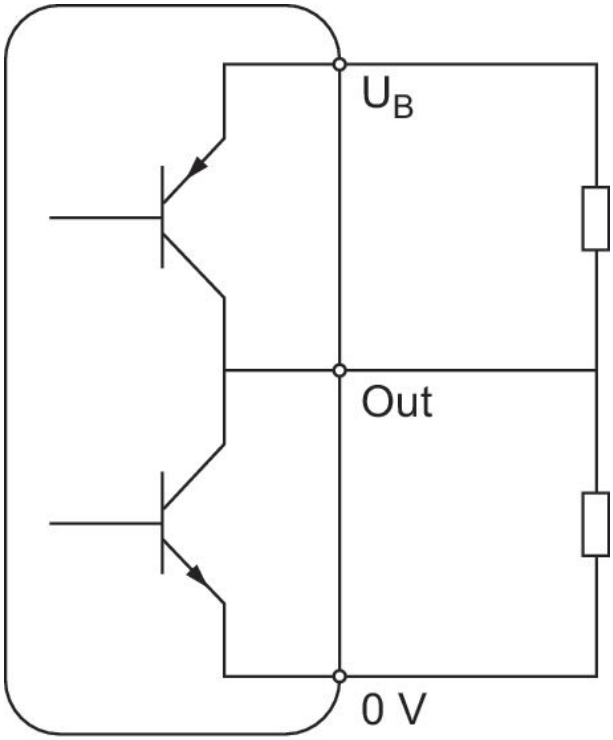
Operating mode

NPN



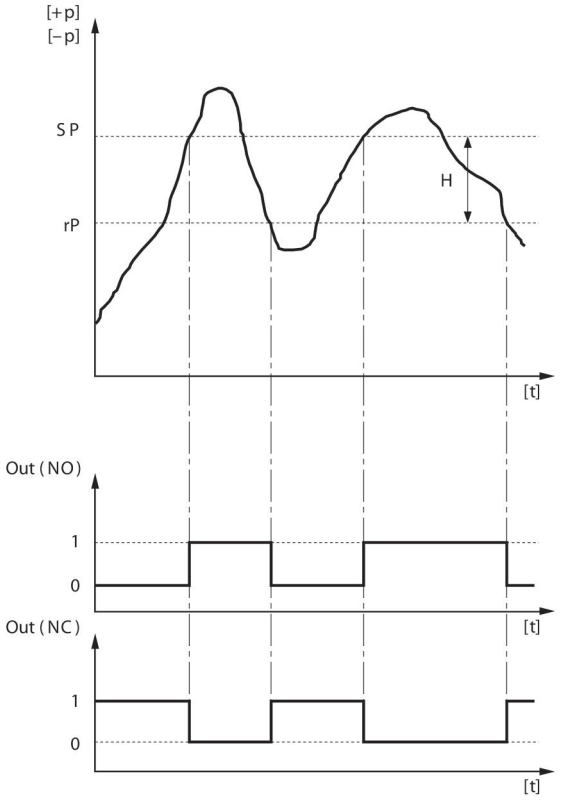
Operating mode

Push-pull



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

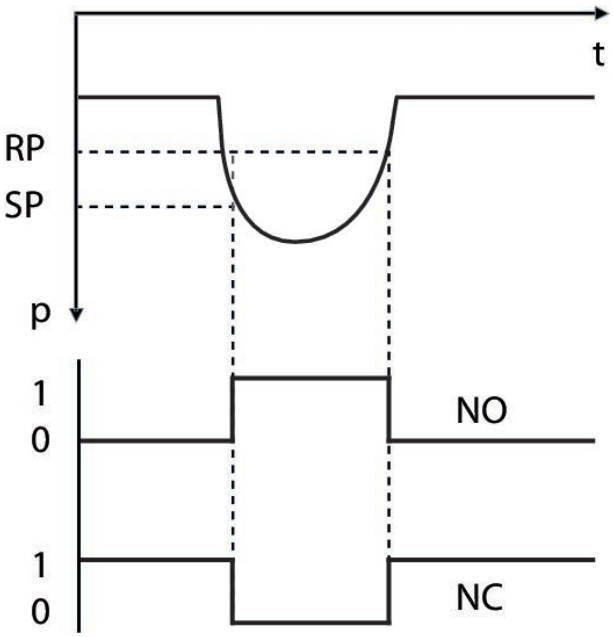
In case of overpressure



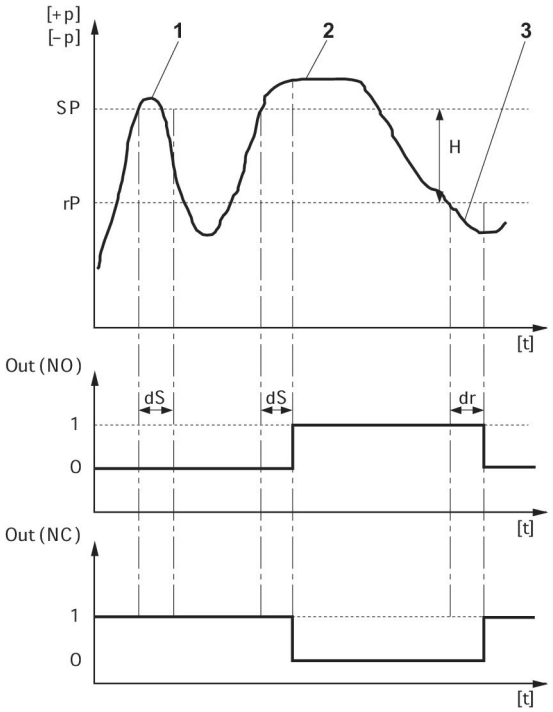
H: Hysteresis
SP = switching point RP = resetting point
Out (NC): switch output, break contact Out (NO): switch output, make contact

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

In case of underpressure

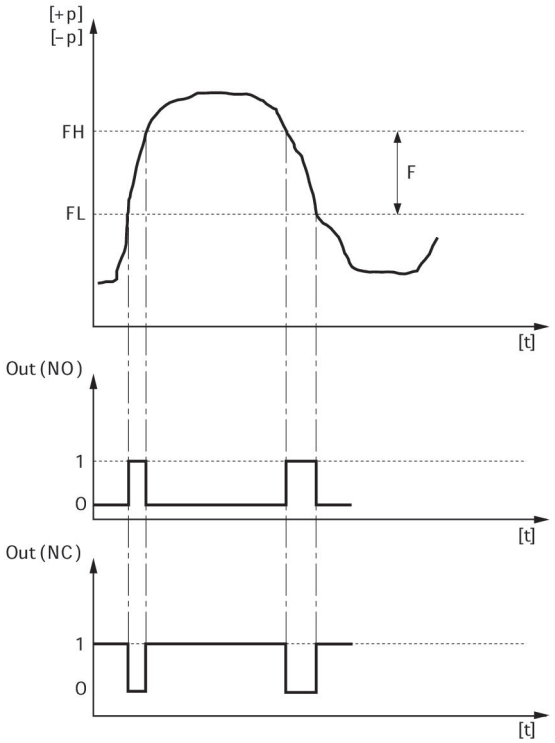


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



H: Hysteresis
SP = switching point RP = resetting point
Out (NC): switch output, break contact Out (NO): switch output, make contact
dS: switching delay dR = reset delay
1) period of pressure over the switching point < dS: pressure sensor does not switch 2) Period of pressure over the switching point > dS: pressure sensor switches 3) Period of pressure under the resetting point > dR: pressure sensor switches

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



FH: pressure band, upper value
FL: pressure band, lower value
Out (NC): switch output, break contact Out (NO): switch output, make contact

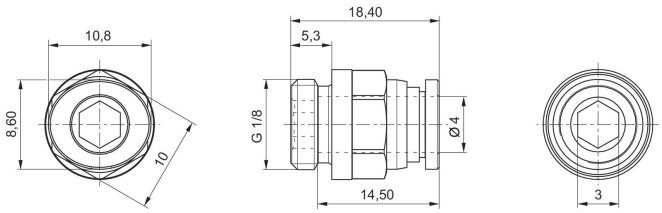
QR1-S-RPN standard series

Compressed air connection type: External thread
Compressed air connection type 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: -1 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/8	Ø 4	10	Brass	2121004180
G 1/8	Ø 6	10	Brass	2121006180
G 1/4	Ø 4	10	Brass	2121004140
G 1/4	Ø 6	10	Brass	2121006140
G 1/4	Ø 8	10	Brass	2121008140

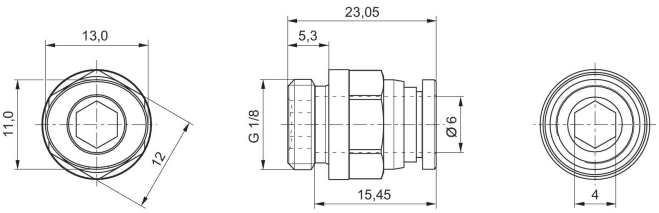
2121004180

Dimensions in mm



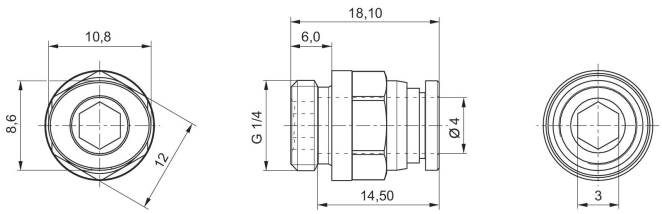
2121006180

Dimensions in mm



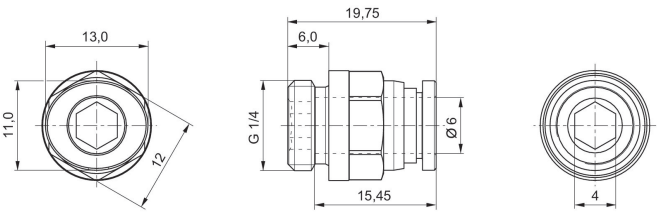
2121004140

Dimensions in mm



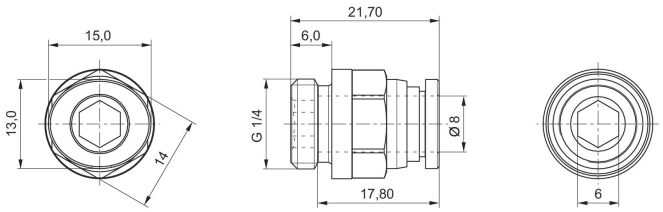
2121006140

Dimensions in mm



2121008140

Dimensions in mm



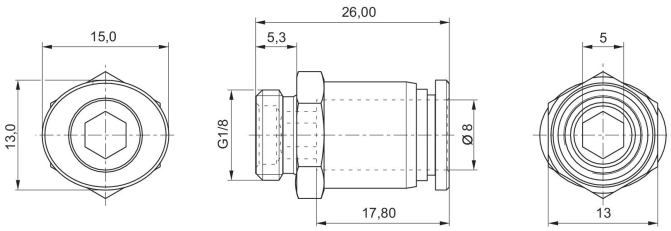
QR1-S-RPN standard series

Compressed air connection type: External thread
Compressed air connection type 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -1 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/8	Ø 8	10	Brass	2121008180
G 1/8	Ø 10	10	Brass	R412005002
G 1/8	Ø 12	10	Brass	R412005003
G 1/4	Ø 10	10	Brass	2121010140
G 1/4	Ø 12	10	Brass	2121012140

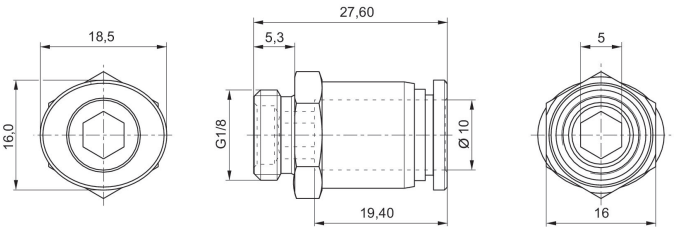
2121008180

Dimensions in mm



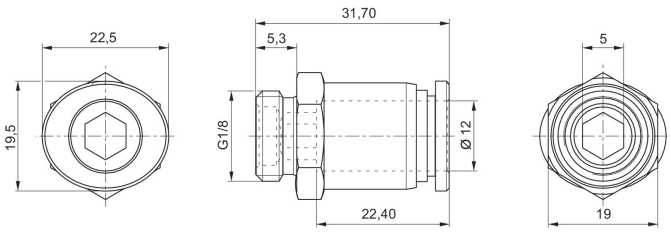
R412005002

Dimensions in mm



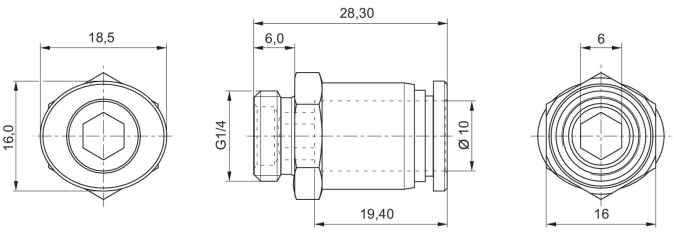
R412005003

Dimensions in mm



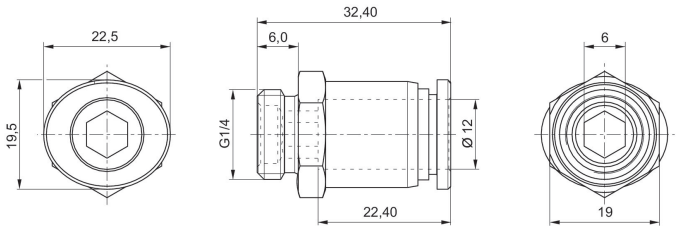
2121010140

Dimensions in mm



2121012140

Dimensions in mm



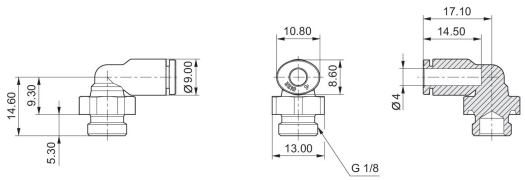
QR1-S-RVT standard series

Compressed air connection type: External thread
Compressed air connection type 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: -1 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/8	Ø 4	10	Polyamide	2122004180
G 1/8	Ø 6	10	Polyamide	2122006180
G 1/8	Ø 8	10	Polyamide	2122008180
G 1/8	Ø 10	10	Polyamide	R412005094
G 1/8	Ø 12	10	Polyamide	R412005095
G 1/4	Ø 4	10	Polyamide	2122004140
G 1/4	Ø 6	10	Polyamide	2122006140
G 1/4	Ø 8	10	Polyamide	2122008140
G 1/4	Ø 10	10	Polyamide	2122010140
G 1/4	Ø 12	10	Polyamide	2122012140

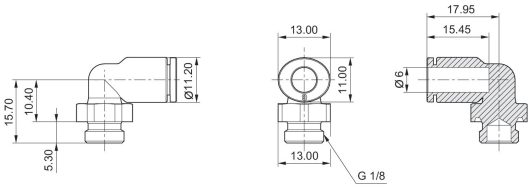
2122004180

Dimensions in mm



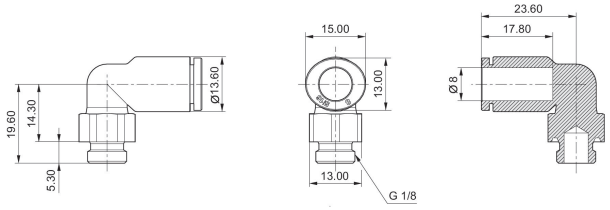
2122006180

Dimensions in mm



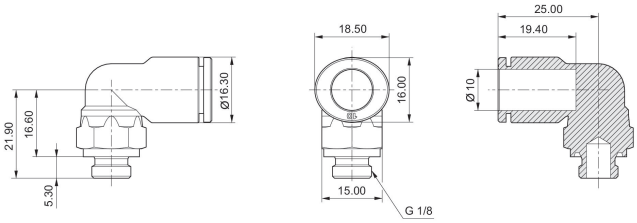
2122008180

Dimensions in mm



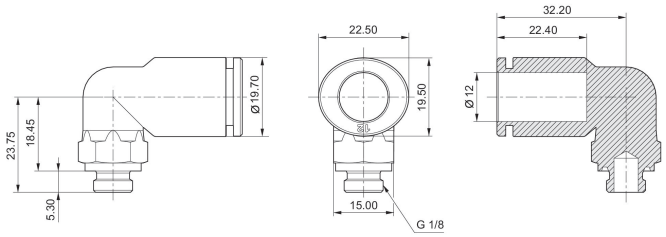
R412005094

Dimensions in mm



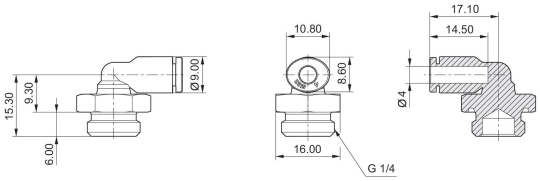
R412005095

Dimensions in mm



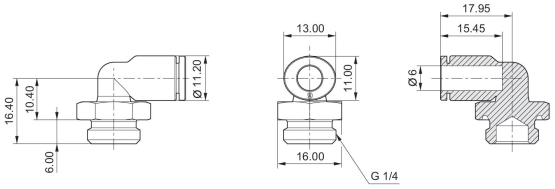
2122004140

Dimensions in mm



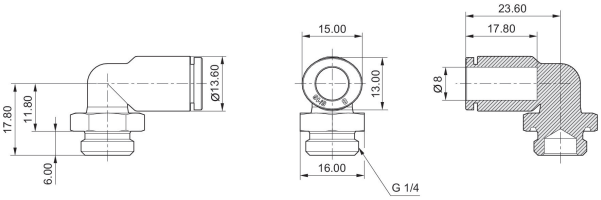
2122006140

Dimensions in mm



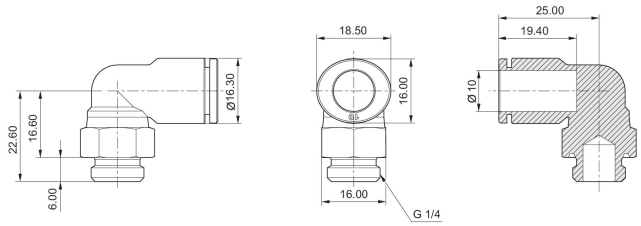
2122008140

Dimensions in mm



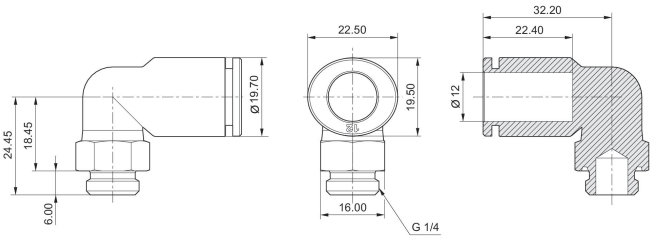
2122010140

Dimensions in mm



2122012140

Dimensions in mm

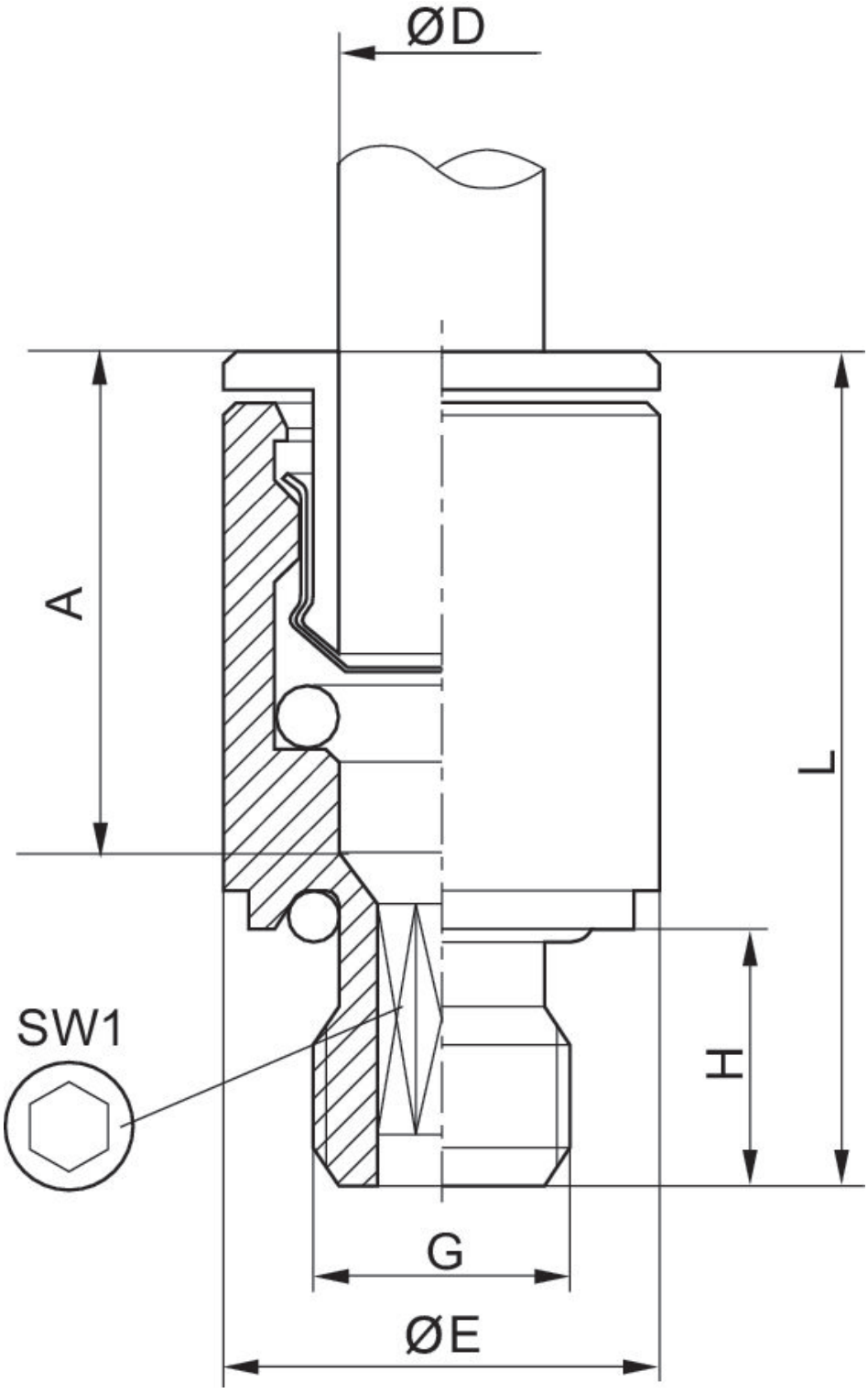


Series QR2-S-RPN standard

Fitting type: Straight fitting
Compressed air connection type: External thread
Compressed air connection 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: -0.95 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/8	Ø 4	25	Brass	1823373041
G 1/8	Ø 5	10	Brass	1823373042
G 1/8	Ø 6	25	Brass	1823373043
G 1/8	Ø 8	25	Brass	1823373044
G 1/4	Ø 4	25	Brass	1823373045
G 1/4	Ø 5	10	Brass	1823373046
G 1/4	Ø 6	25	Brass	1823373047
G 1/4	Ø 8	10	Brass	1823373048
G 1/4	Ø 10	10	Brass	1823373049
G 1/4	Ø 12	10	Brass	1823391809
G 1/4	Ø 12	10	Brass	R412004708

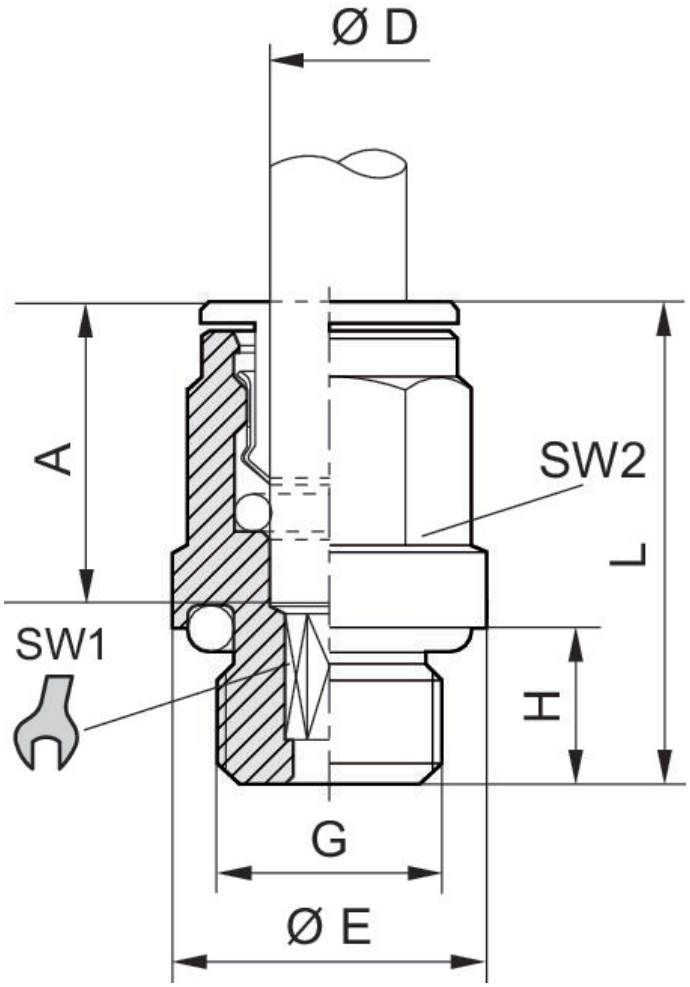
Dimensions



Part No.	Port D	Port G	Ø E	H	L	A Insertion depth	SW 1	SW 2
1823373038	Ø 4	M5	9	4	20.5	15	2.5	–
1823373039	Ø 5	M5	9.5	4	22	16	2.5	–
1823373040	Ø 6	M5	10.5	4	22	16	2.5	–
1823373100	Ø 4	M7	10.8	6	22	15	2.5	9
1823373088	Ø 6	M7	10.5	6	24	16	3.5	–
1823373041	Ø 4	G 1/8	13.5	6	20	15	2.5	9
1823373042	Ø 5	G 1/8	13.5	6	22	16	4	10
1823373043	Ø 6	G 1/8	13.5	6	24	16	4	11
1823373044	Ø 8	G 1/8	13	6	26.5	18	5	13
1823373045	Ø 4	G 1/4	17	8	21	15	2.5	9
1823373046	Ø 5	G 1/4	17	8	22	16	4	10
1823373047	Ø 6	G 1/4	17	6.5	22.5	16	4	11
1823373048	Ø 8	G 1/4	17	8	25	18	6	13
1823373049	Ø 10	G 1/4	16	8	29.5	19	7	16
1823391809	Ø 12	G 1/4	16	6.5	30	20	7	18
R412004708	Ø 12	G 1/4	17	8.3	31		7	–
1823373050	Ø 8	G 3/8	20	9	25	18	6	13
1823373051	Ø 10	G 3/8	21	9	29.5	19	8	16
1823373052	Ø 12	G 3/8	21	9	31	20	10	18
1823373053	Ø 14	G 3/8	21	9	34	22	10	21
1823373054	Ø 12	G 1/2	24	11	31	20	10	18
1823373055	Ø 14	G 1/2	24	11	34	22	12	21
R412007955	Ø16	G 1/2	24	11	37		12	24

1823373041, 1823373042, 1823373043, 1823373044, 1823373045, 1823373046, 1823373047, 1823373048, 1823373049, 1823391809

Dimensions

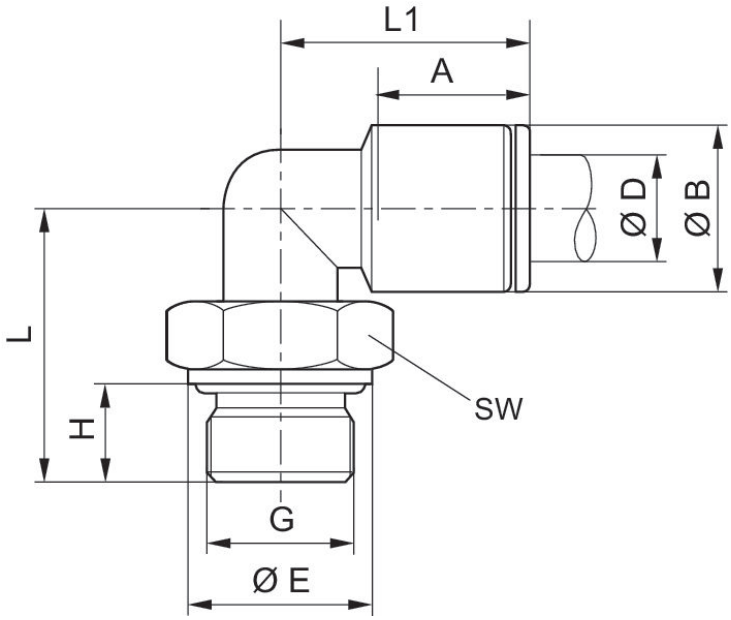


Series QR2-S-RVT standard

Fitting type: Elbow fitting, rotatable
Compressed air connection type: External thread
Compressed air connection 2: Push-in fitting
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: -0.95 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/8	Ø 4	10	Brass	1823391710
G 1/8	Ø 6	10	Brass	1823391711
G 1/8	Ø 8	10	Brass	1823391712
G 1/8	Ø 10	5	Brass	R412007687
G 1/4	Ø 4	10	Brass	1823391713
G 1/4	Ø 6	10	Brass	1823391714
G 1/4	Ø 8	10	Brass	1823391715
G 1/4	Ø 10	5	Brass	1823391718
G 1/4	Ø 12	5	Brass	1823391843

Dimensions



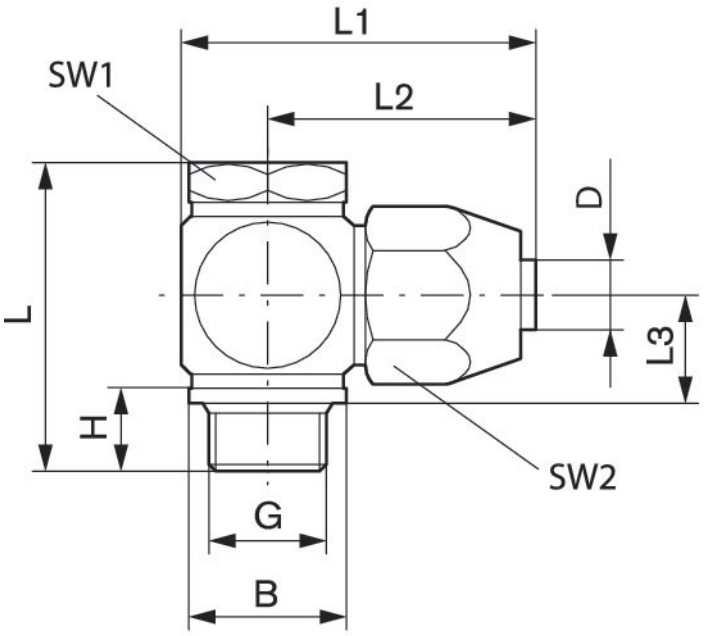
Part No.	Port D	Port G	ØB	ØE	H	L	L1	A Insertion depth	SW
1823391709	Ø 4	M5	9	8	4	14.5	19	14	9
1823391889	Ø 6	M5	11	8	4	14.5	21	16	9
1823391886	Ø 6	M7	11	10	6	16.5	19.5	16	9
1823391710	Ø 4	G 1/8	9	13	6	20	19	15	13
1823391711	Ø 6	G 1/8	11	13	6	20	21	16	13
1823391712	Ø 8	G 1/8	13	13	6	20	24	18	13
R412007687	Ø 10	G 1/8	15	13	6	24	27	19	13
1823391713	Ø 4	G 1/4	9	16	8	24	19	15	13
1823391714	Ø 6	G 1/4	11	16	8	24	21	16	13
1823391715	Ø 8	G 1/4	13	16	8	24	24	18	13
1823391718	Ø 10	G 1/4	15	16	8	24	27	19	16
1823391843	Ø 12	G 1/4	17	16	8	30.5	29	20	16
1823391716	Ø 8	G 3/8	13	20	9	25.5	24	18	13
1823391717	Ø 10	G 3/8	15	20	9	28	27	19	16
1823391838	Ø 12	G 3/8	17	20	9	28.5	28	20	20
1823391839	Ø 14	G 3/8	20	20	9	28.5	31	22	20
R412010182	Ø16	G 3/8	23	20	9	33.5	33	23.5	20
R412007589	Ø 10	G 1/2	15	25	11	30	27	19	16
1823391840	Ø 12	G 1/2	17	25	11	33.5	28	20	20
1823391841	Ø 14	G 1/2	20	25	11	33.5	31	22	20
R412007956	Ø16	G 1/2	23	25	11	38	33	23.5	20

Series NU2

Compressed air connection type: External thread
Compressed air connection type 2: plug-in with tube nut
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: -0.95 bar ... 10 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/4	Ø 6	2	Aluminum	1823391294
G 1/4	Ø 8	2	Aluminum	1823391295
G 1/4	Ø 9	2	Aluminum	R412010658

Dimensions



for fabric-reinforced plastic tubing

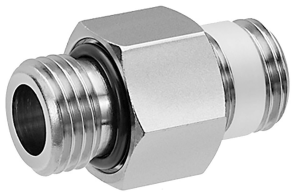
Part No.	Port D	Port G	B	H	L	L1	L2	L3	SW1
1823391293	Ø 4	G 1/8	14	10	32.5	34	26.5	13.7	14
1823391294	Ø 6	G 1/4	18	12.5	39	39.5	30	14.5	17
1823391295	Ø 8	G 1/4	18	12.5	42	42	32.5	16	17
1823391296	Ø 8	G 3/8	21	12.5	43	47	35	15.5	22
R412010658	Ø 9	G 1/4	18.9	7.9	40	42	32.5	15.6	17
R412007838	Ø 13	G 1/2	22.9	14	49.5	55	40	18.5	27
R412007839	Ø 13	G 3/8	22.9	12.5	47	49	37	18.5	22
1823391807	Ø 18	G 3/4	33	18.5	66	69	51	25	32
1823391808	Ø 18	G 1	40	20.5	70	77	55	25	41

Part No.	SW2
1823391293	17
1823391294	19
1823391295	22
1823391296	22
R412010658	24
R412007838	30
R412007839	30
1823391807	41
1823391808	41

Connection D = inside diameter of the tubing to be used

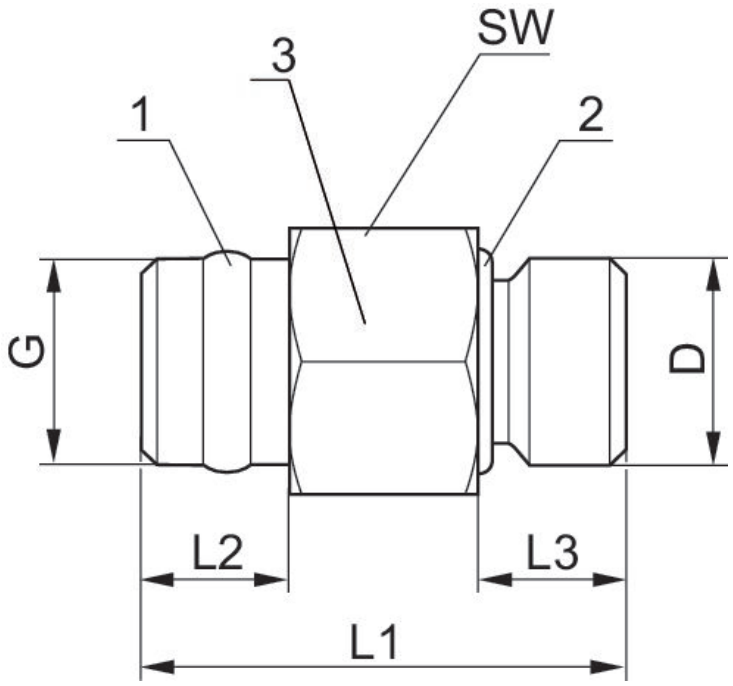
Double nipple, Series PE5

Compressed air connection type: External thread
Compressed air connection type 2: External thread



G	Ø D	Delivery unit [piece]	Weight [kg]	Part No.
G 1/4	G 1/8	2	0.04	R412010015
G 1/4	G 1/4	2	0.04	R412010016

Dimensions



1) sealing ring Polytetrafluorethylen
2) O-ring - acrylonitrile butadiene rubber
3) Housing - brass, nickel-plated

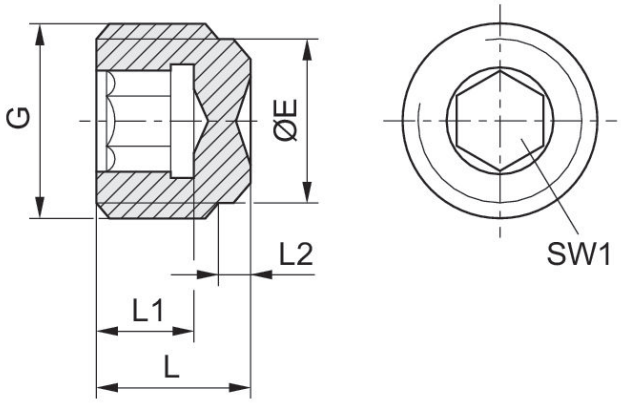
Part No.	Port G	Port D	L1	L2	L3	SW
R412010015	G 1/4	G 1/8	30	10	8.5	17
R412010016	G 1/4	G 1/4	30	10	8.5	17

Blanking screw, Brass

Compressed air connection type: External thread
Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: 0 bar ... 16 bar

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

Dimensions



Dimensions in mm

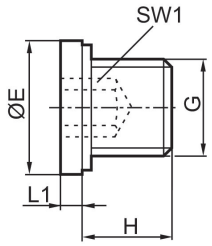
Part No.	Port G	ØE	L	L1	L2	SW1
1823462004	G 1/8	8	8	5	2	5
1823462003	G 1/4	11	11	7	3.5	6

Blanking screw, gasket

Ambient temperature min./max.: -20 °C ... 80 °C
Working pressure min./max.: 0 bar ... 16 bar

G	Delivery unit [piece]	Part No.
G 1/8	25	1823462028
G 1/4	25	1823462029
G 3/8	25	1823462030
G 1/2	25	1823462031
G 3/4	10	1823462032
G 1	5	1823462033

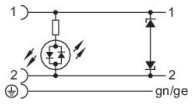
Dimensions



Part No.	Port G	Ø E	H	L1	SW1
1823462028	G 1/8	14	8	3	5
1823462029	G 1/4	18	12	3	6
1823462030	G 3/8	22	12	3	8
1823462031	G 1/2	26	14	4	10
1823462032	G 3/4	32	16	4	12
1823462033	G 1	39	16	5	17

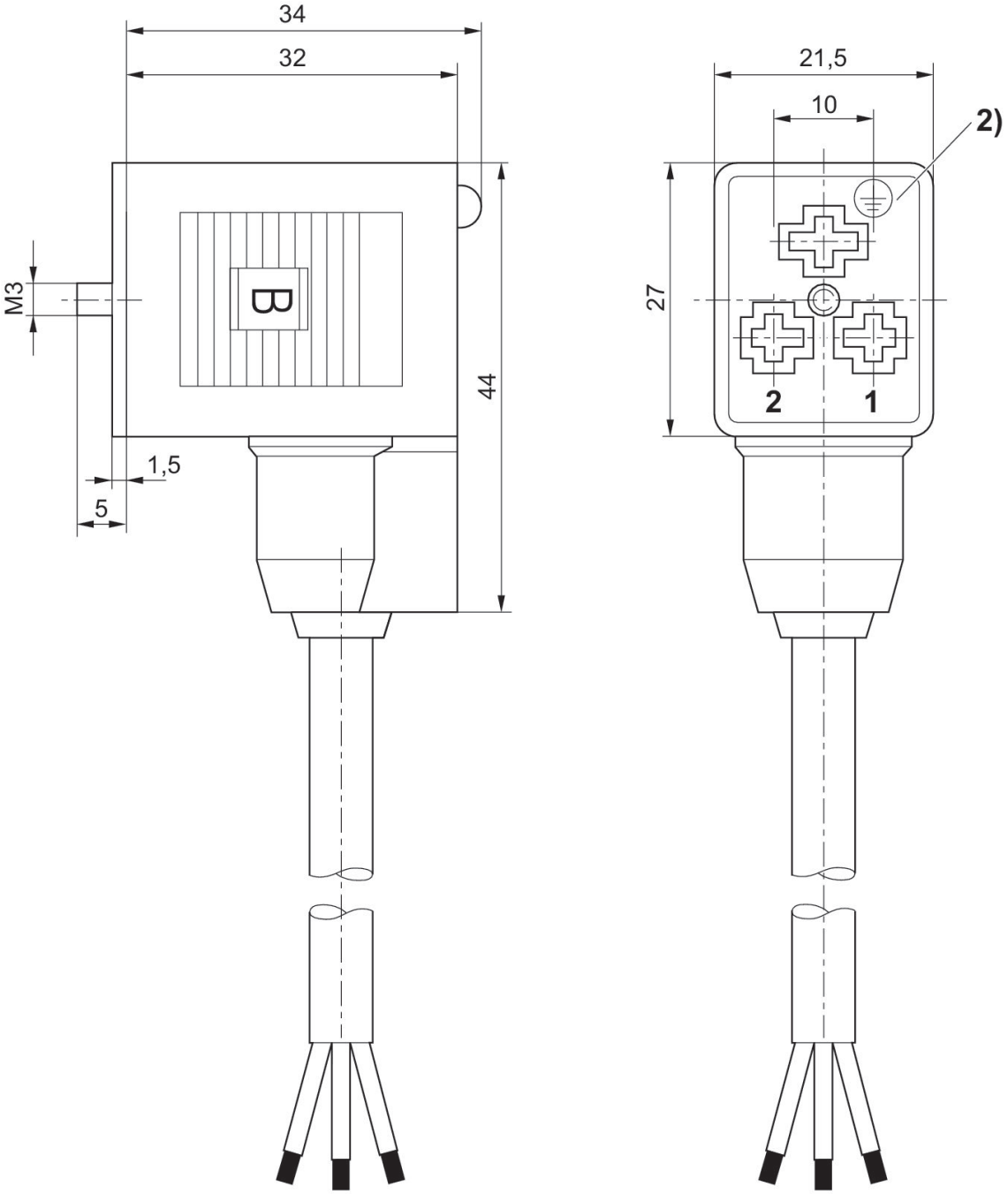
Valve plug connector with cable series CON-VP,, 180° female insert

Electrical connection 1: Socket ... Form B ... 2+E ... angled 90°
Electrical connection 2: open cable ends ... 3-pin
Protective circuit: Z-diode
Ambient temperature min./max.: -20 °C ... 80 °C



Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	Cable-Ø [mm]	Cable length [m]	Part No.
24 V AC/DC	Z-diode	10	2+E	Yellow	5.9	3	1834484153
24 V AC/DC	Z-diode	10	2+E	Yellow	5.9	5	1834484155

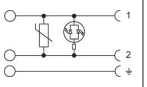
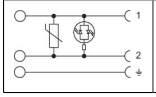
Dimensions



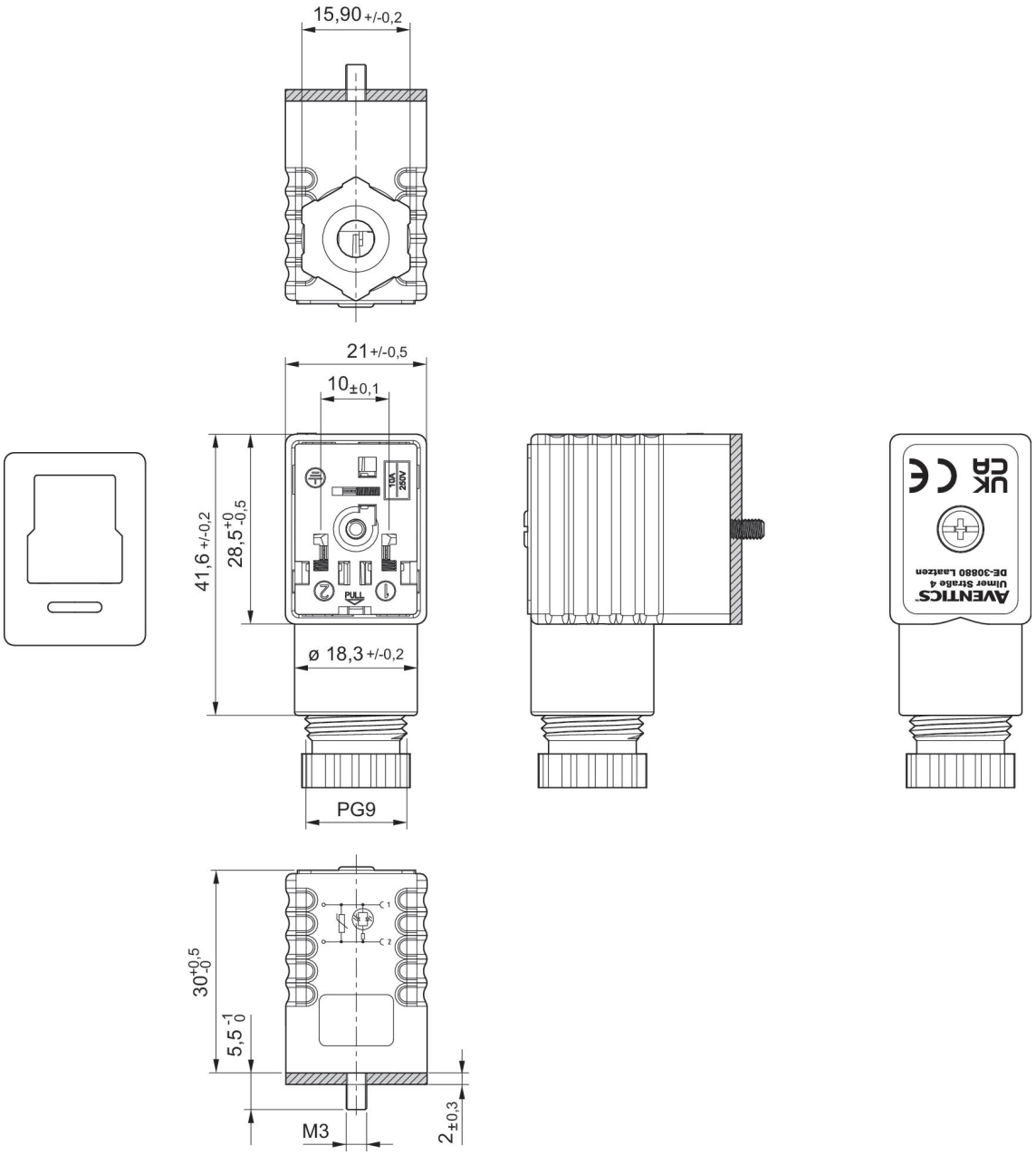
2) 180° female insert

Valve plug connector, series CON-VPP, Form B, 115/230 V AC/DC, LED

Electrical connection 1: EN 175301-803, form B
Ambient temperature min./max.: -40 °C ... 90 °C

	Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
	115 V AC/DC	Varistor	1.5	2+E	Red	4	8	1834484105
	230 V AC/DC	Varistor	1.5	2+E	Red	4	8	1834484106

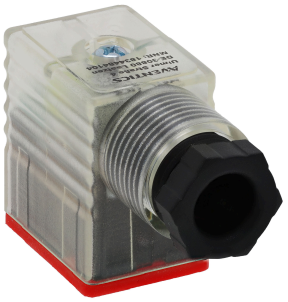
Dimensions

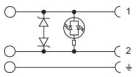


Profile seal

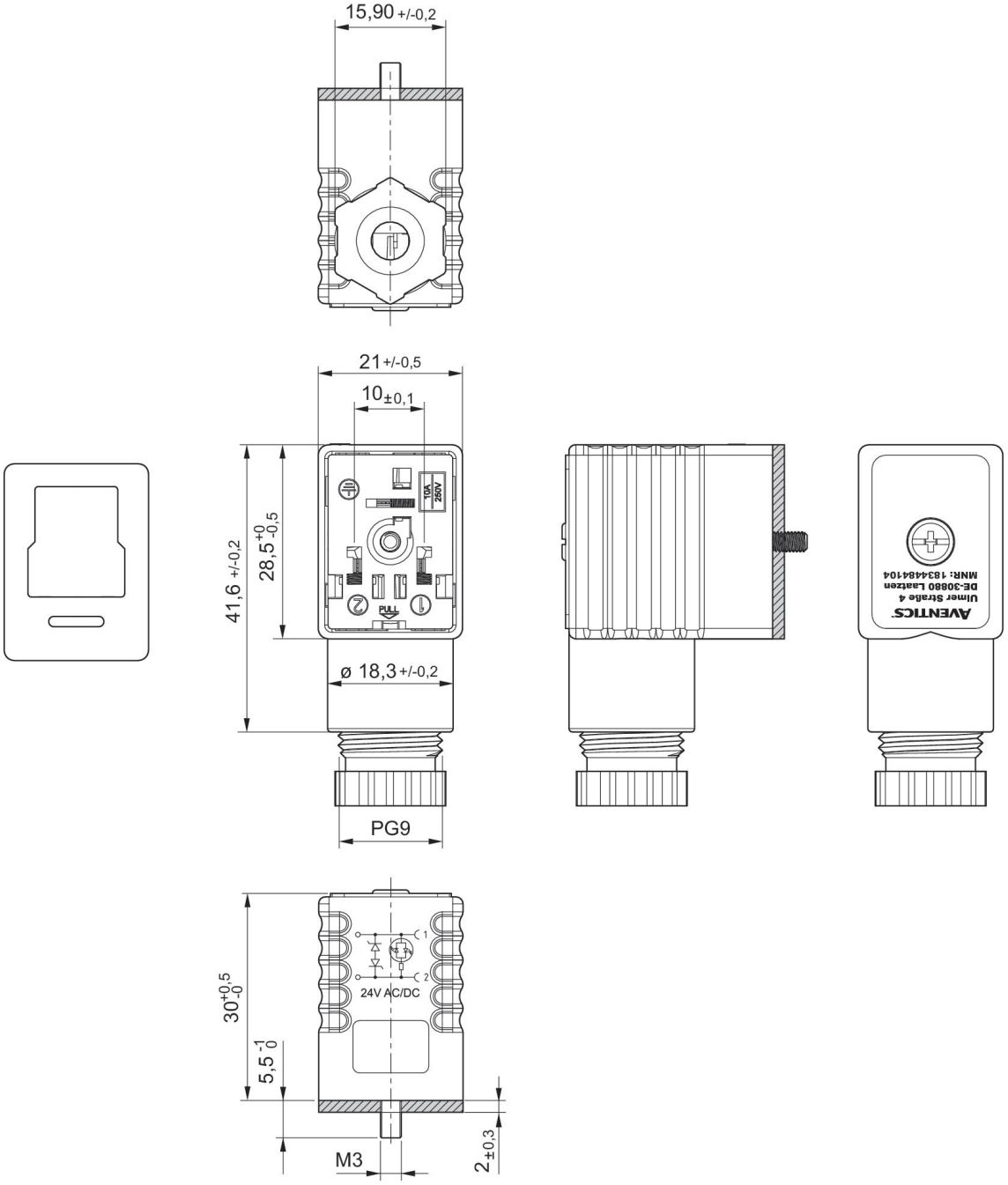
Valve plug connector, series CON-VP, Form B, 24 V AC/DC

Electrical connection 1: EN 175301-803, form B
Ambient temperature min./max.: -40 °C ... 90 °C



	Operational voltage	Protective circuit	Max. current [A]	Contact assignment	LED status display	min. suitable cable Ø [mm]	max. suitable cable Ø [mm]	Part No.
	24 V AC/DC	2 Z-diodes	1.5	2+E	Yellow	4	8	1834484104

Dimensions



Profile seal

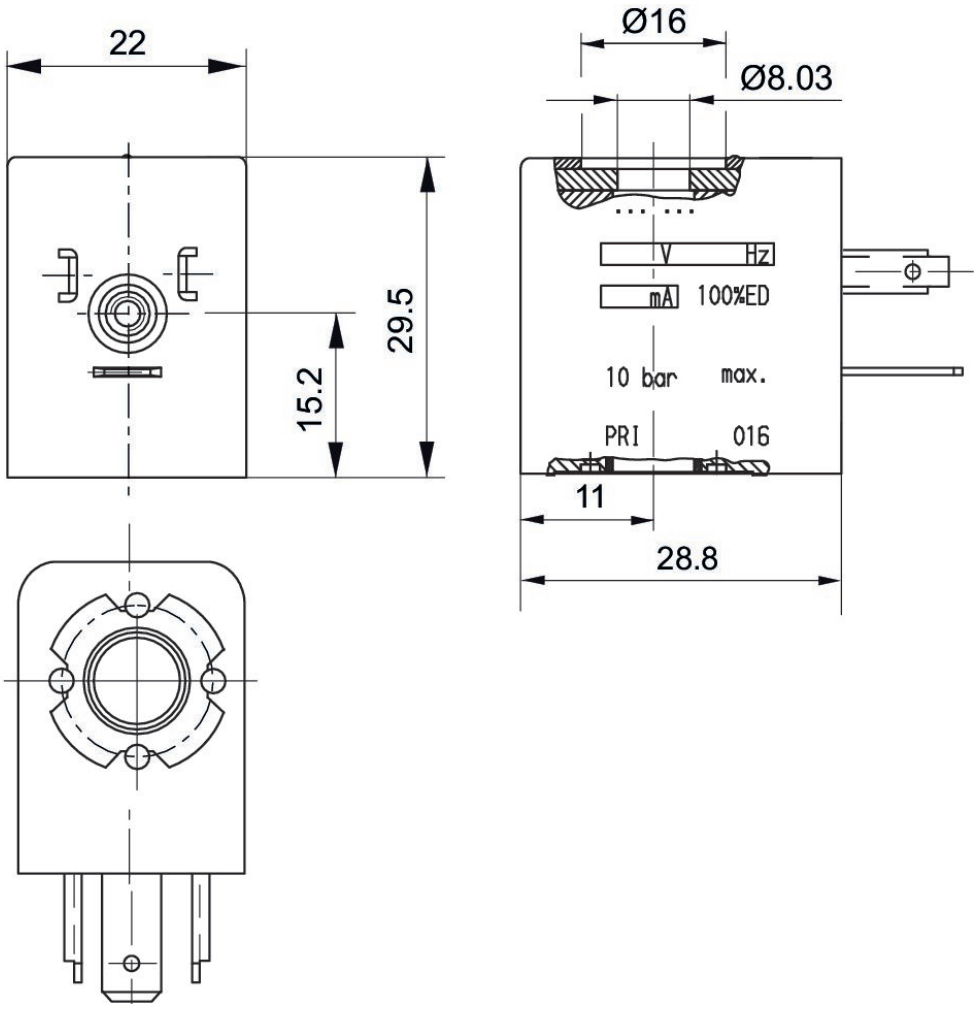
Coil, Series CO1

Coil width: 22 mm
Duty cycle: 100 %
Ambient temperature min./max.: 50 °C

Operational voltage DC	Number of poles	Operational voltage AC at 50 Hz	Operational voltage AC at 60 Hz	Voltage tolerance DC	Voltage tolerance AC 50 Hz	Voltage tolerance AC 60 Hz	Power consumption DC [W]	Part No.
12 V	3-pin	24 V	24 V	-10 % / +10 %	-10 % / +10 %	-10 % / +10 %	5.5	1824210239
24 V	3-pin	48 V	48 V	-10 % / +10 %	-10 % / +10 %	-10 % / +10 %	4.8	1824210243
48 V	3-pin			-10 % / +10 %	-10 % / +10 %	-10 % / +10 %	5	1824210241
60 V	3-pin	110 V	110 V	-10 % / +10 %	-10 % / +10 %	-10 % / +10 %	5.9	1824210237
110 V	3-pin	220 V	230 V	-10 % / +10 %	-10 % / +10 %	-10 % / +10 %	4.9	1824210235

Holding power AC 50 Hz [VA]	Switch-on power AC 50 Hz [VA]	Compatibility index	Part No.
8.9	12	14	1824210239
7.7	10.5	14	1824210243
		14	1824210241
8.4	11	14	1824210237
9.7	12.6	14	1824210235

Dimensions



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