Series NL2

AVENTICS™

AVENTICS Series NL2 Air Preparation Units

EMERSON

Series NL2

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

Page

Air preparation units
Air preparation unit, 2-part, Series NL2-ACD 6

Pressure regulators, air supply on the left
Pressure regulator, Series NL2-RGS 11
Pressure regulator, Series NL2-RGS-...-DS 13
with continuous pressure supply
Pressure regulator, Series NL2-RGS 16
not lockable
Pressure regulator, Series NL2-RGS 21
Standard locking, with key
Pressure regulator, Series NL2-RGS 26
-30 °C cold-resistant
Pressure regulator, Series NL2-RGS 29
with pressure gauge in hand wheel
Precision pressure regulator, Series NL2-RGP-...-DS 32
with continuous pressure supply
Precision pressure regulator, Series NL2-RGP 36

Filter pressure regulators, air supply on the left
Filter pressure regulator, Series NL2-FRE 39
Standard locking, with key
Filter pressure regulator, Series NL2-FRE 42
Filter pressure regulator, Series NL2-FRE 45

Filter, air supply on the left
Filter, Series NL2-FLS 50
Pre-filter, Series NL2-FLP 54
Microfilter, Series NL2-FLC 57
Active carbon filter, Series NL2-FLA 60

Lubricators, air supply on the left
Standard oil-mist lubricator, Series NL2-LBS 62
Micro oil-mist lubricator, Series NL2-LBM 66

Filling units, air supply on the left
Filling unit, electrically operated, Series NL2-SSU 70
22 mm - Soft seal

Filling valves, air supply on the left
Filling valve, pneumatically operated, Series NL2-SSV 73
Soft seal

Shut-off valves, air supply on the left
3/2-directional valve, electrically operated, Series NL2-SOV 76
22 mm - Soft seal
3/2-directional valve, pneumatically operated, Series NL2-SOV 79
Soft seal
3/2-directional valve, pneumatically operated, Series NL2-SOV 81
Soft seal
3/2-shut-off valve, mechanically operated, Series NL2-BAV 83
metal/metal sealing - rotary switch

Safety valves

Product overview

Page

Series RV1 85
uncollected exhaust

Distributors, air supply on the left

Distributor, Series NL2-DIC 89
Distributor, Series NL2-DIL 90
Distributor, Series NL2-DIN 92
Distributor, Series NL2-DIS 95

Diaphragm-type dryer

Diaphragm-type dryer, Series NL2-ADD 97

Accessories overview Reservoir

Reservoir, Series NL2-CLS 100
Reservoir, Series NL2-CLC 103
fully automatic, open without pressure
Reservoir, Series NL2-CLA 105
Reservoir, Series NL1/AS1-CBM/-CLA/-CBM 107
Protective guard, Series NL2 109
Reservoir for lubricator, Series NL2-CBS 110

Accessories overview Pressure gauge

Pressure gauge, Series PG1-SNL-ADJ 114
Display range 0-1,6 bar Ø 50 mm with adjustable work area display
Pressure gauge, Series PG1-SNL 116
Display range 0-16 bar Ø 50 mm Mineral glass
Pressure gauge, Series PG1-SNL 117
Display range 0-16 bar Ø 40-63 mm For panel installation
Pressure gauge, Series PG1-SNL 119
Display range 0-1,6 bar Ø 50 mm
Pressure gauge, Series PG1-SNL 120
Display range 0-6 bar Ø 40 - 50 mm

Accessories overview Mountings

Mounting plate, Series NL2-MBR-...-W01 122
Mounting bracket, Series NL1/NL2-MBR-...-W02 123
Block assembly kit, Series NL2-MBR-...-W04 125
Panel nut, Series AS-MBR-...-W06 126
Brass
Panel nut, Series AS-MBR-...-W06 127
Plastic

Accessories overview Silencer

AVENTICS Series SI1 Silencers 128
External thread - Sintered bronze
AVENTICS Series SI1 Silencers 129
External thread - Stainless Steel
AVENTICS Series SI1 Silencers 131
External thread - Sintered bronze
AVENTICS Series SI1 Silencers 133
External thread - Polyethylene

Accessories overview Sensors

Product overview

Page

Pressure Switches, Series PM1 136
G 1/4 - EN 175301-803, form A - With valve plug connector
Pressure Switches, Series PM1 140
G 1/4 - EN 175301-803, form A - Without valve plug connector
Pressure Switches, Series PM1 143
G 1/4 - M12x1 - Operating pressure 0,2 ... 16 bar
Pressure Switches, Series PM1 146
G 1/4 - M12x1 - Operating pressure -0,9 ... 0 bar
Pressure Switches, Series PM1 149
Ø 5x1,5 - EN 175301-803, form A - With valve plug connector
Pressure Switches, Series PM1 152
Ø 5x1,5 - EN 175301-803, form A - Without valve plug connector
Pressure Switches, Series PM1 155
Ø 5x1,5 - M12x1 - Operating pressure -0,9 ... 0 bar
Pressure Switches, Series PM1 158
Ø 5x1,5 - M12x1 - Operating pressure 0,2 ... 16 bar
Pressure sensor, Series PE5, push-in fitting 161

Accessories overview Fittings

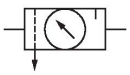
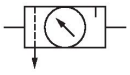
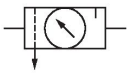
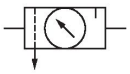
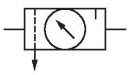
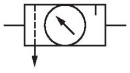
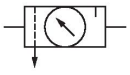
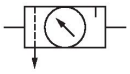
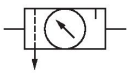
QR1-S-RPN standard series 170
Straight fitting
QR1-S-RPN standard series 172
Straight fitting
QR1-S-RVT standard series 174
Elbow fitting
Series QR2-S-RPN standard 177
Straight fitting
Series QR2-S-RVT standard 181
Elbow fitting rotatable
Series NU2 183
Swivel banjo connection 1-fold
Double nipple, Series PE5 185
Blanking screw, Brass 186
Orifice plugs 187
Orifice plugs
Mounting screws for wall mounting, Series NL2, NL4 188

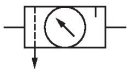
Accessories overview Electrical accessories

Valve plug connector, series CON-VPP, Form B, 115/230 V AC/DC, LED 189
Valve plug connector, series CON-VP, Form B, 24 V AC/DC 191
Valve plug connector with cable series CON-VP, Form B, 0° female insert 193
Z-diode - 24 V AC/DC
Coil, Series CO1 196
Thermoplastic elastomer

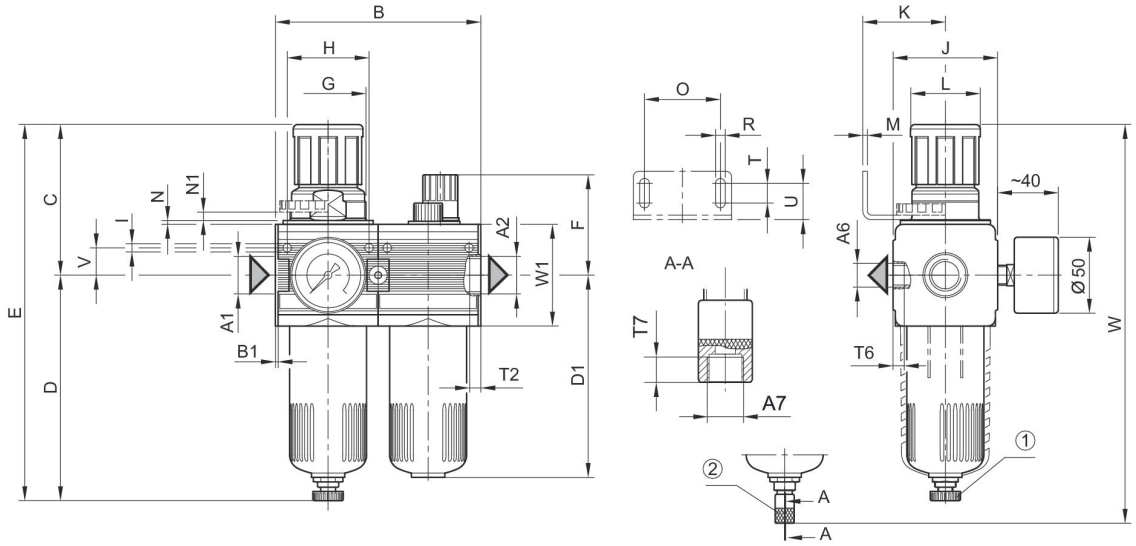
Air preparation unit, 2-part, Series NL2-ACD

Flow: 1100 l/min
Parts: Air preparation units
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2 bar ... 16 bar

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Protec-tive guard	Part No.
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300400
	G 1/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300403
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300401
	G 1/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300404
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	0.5	10		0821300402
	G 1/4	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	0.5	10		0821300405
	G 3/8	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300430
	G 3/8	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300433
	G 3/8	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300431

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Protec-tive guard	Part No.
	G 3/8	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	0.5	10		0821300432

Dimensions



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

Dimensions in mm

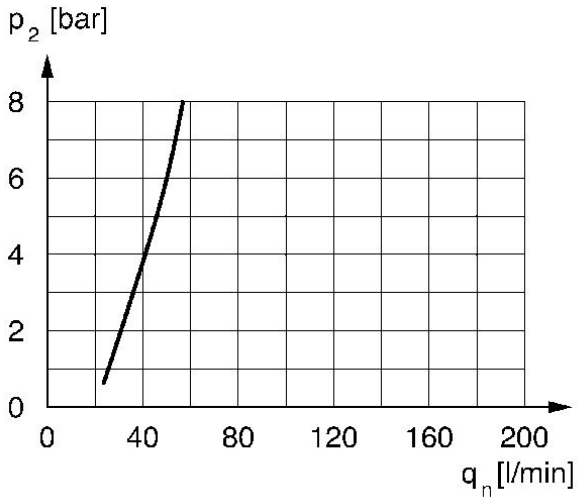
Part No.	A1	A2	A6	A7	B	B1	C	D	D1
0821300400	G 1/4	G 1/4	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300403	G 1/4	G 1/4	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300401	G 1/4	G 1/4	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300404	G 1/4	G 1/4	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300402	G 1/4	G 1/4	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300405	G 1/4	G 1/4	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300430	G 3/8	G 3/8	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300433	G 3/8	G 3/8	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300431	G 3/8	G 3/8	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300434	G 3/8	G 3/8	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300432	G 3/8	G 3/8	G 1/4	G 1/8	93	1.5	67.5	125	109
0821300435	G 3/8	G 3/8	G 1/4	G 1/8	93	1.5	67.5	125	109

Part No.	E	F	G	H	I	J	K	L	M
0821300400	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300403	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300401	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300404	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300402	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300405	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300430	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300433	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300431	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300434	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300432	192.5	58	M30x1,5	36	4.4	47	43.5	28	3
0821300435	192.5	58	M30x1,5	36	4.4	47	43.5	28	3

Part No.	N	N1	O	R	T	T2	T6	T7	U
0821300400	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300403	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300401	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300404	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300402	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300405	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300430	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300433	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300431	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300434	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300432	3	3.5	38	5.4	8	9.5	7	8.5	18.5
0821300435	3	3.5	38	5.4	8	9.5	7	8.5	18.5

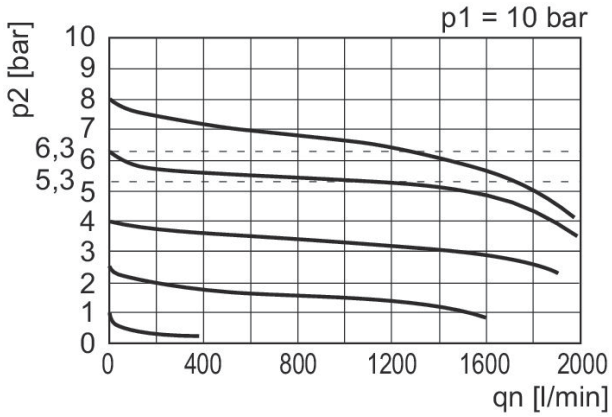
Part No.	V	W	W1
0821300400	12.3	205.5	52
0821300403	12.3	205.5	52
0821300401	12.3	205.5	52
0821300404	12.3	205.5	52
0821300402	12.3	205.5	52
0821300405	12.3	205.5	52
0821300430	12.3	205.5	52
0821300433	12.3	205.5	52
0821300431	12.3	205.5	52
0821300434	12.3	205.5	52
0821300432	12.3	205.5	52
0821300435	12.3	205.5	52

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



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

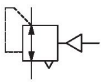
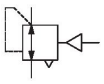
Flow rate characteristic, p2 = 0,05 - 7 bar



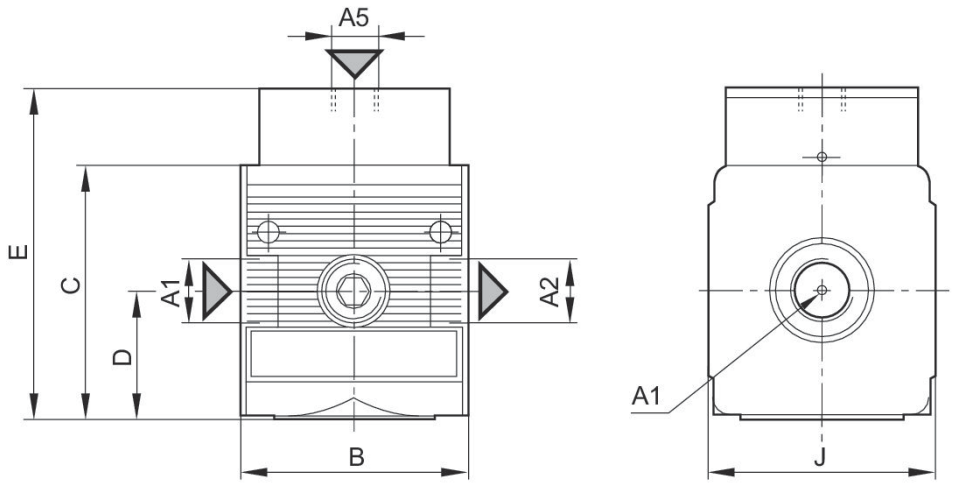
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL2-RGS

Activation: Pneumatically
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
Flow: 2000 l/min
Max. control pressure: 10 bar
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. regula-tion rangep2 [bar]	Max. regula-tion rangep2 [bar]	Part No.
	G 1/4	2000	0.5, 16	0.5	10	R412004950
	G 3/8	2000	0.5, 16	0.5	10	R412004951

Dimensions

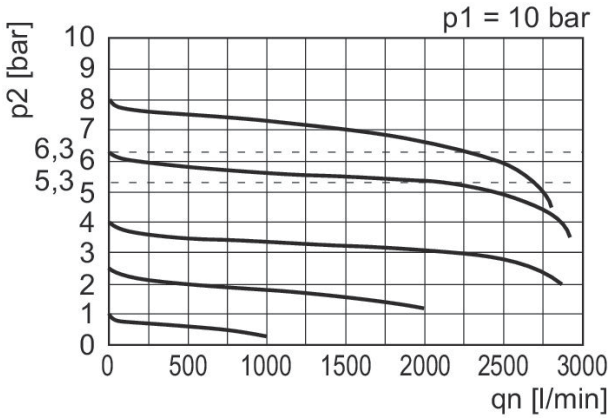


A1 = input A2 = output
A5 = Control pressure connection

Dimensions in mm

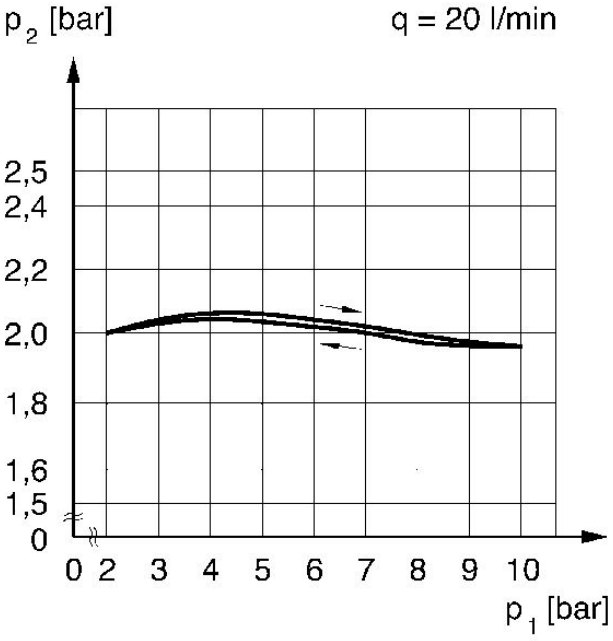
Part No.	A1	A2	A5	B	C	D	E	J
R412004950	G 1/4	G 1/4	G 1/8	48	52.8	26.8	68.8	47
R412004951	G 1/4	G 3/8	G 1/8	48	52.8	26.8	68.8	47

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



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

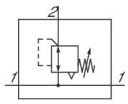
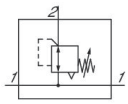
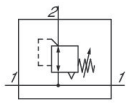
Pressure characteristics curve



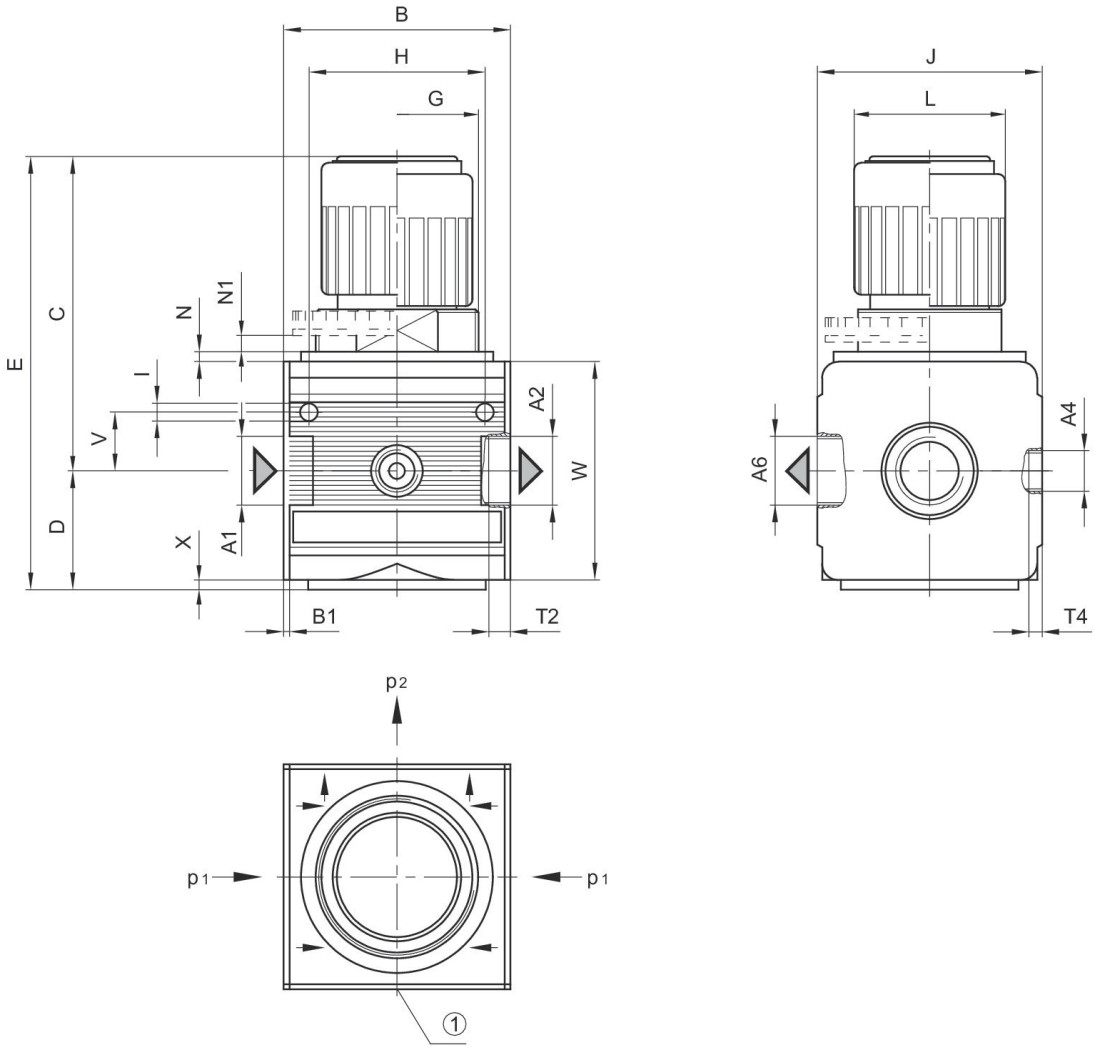
p1 = working pressure p2 = secondary pressure q = flow rate

Pressure regulator, Series NL2-RGS-...-DS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
Flow: 2000 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. regula-tion rangep2 [bar]	Max. regula-tion rangep2 [bar]	Part No.
	G 1/4	2000	0.5, 16	0.1	3	0821302411
	G 1/4	2000	0.5, 16	0.2	6	0821302409
	G 1/4	2000	0.5, 16	0.5	10	0821302408

Dimensions



A1 = input A2 = output
A4 = pressure gauge connection
A6 = ventilation port
1) pressure gauge connection p1 = working pressure p2 = secondary pressure

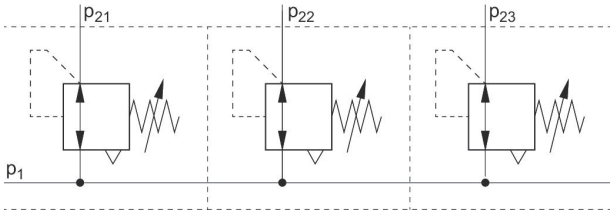
Dimensions in mm

Part No.	A1	A2	A4	A6	B	B1	C	D	E
0821302411	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98
0821302409	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98
0821302408	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	71	27	98

Part No.	G	H	I	J	L	N	N1	T2	T4
0821302411	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302409	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302408	M30x1,5	36	4.4	47	28	3	3.5	9.5	7

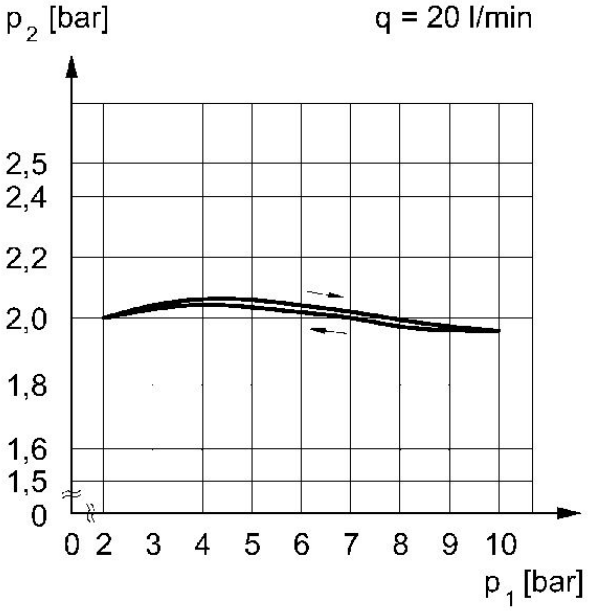
Part No.	V	W	X
0821302411	12.3	52	1
0821302409	12.3	52	1
0821302408	12.3	52	1

Application example



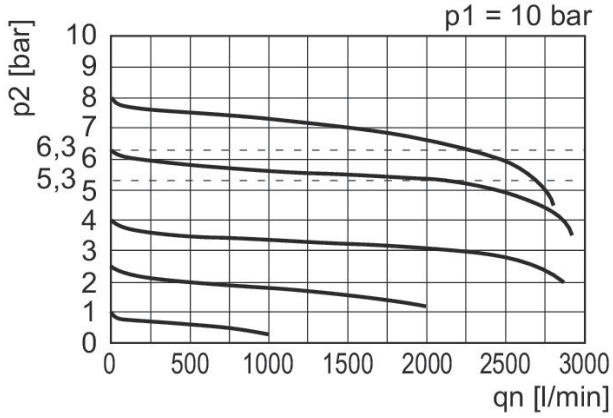
p1 = Working pressure

Pressure characteristics curve



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

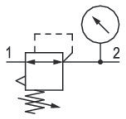
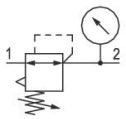
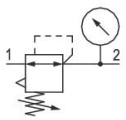
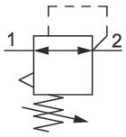
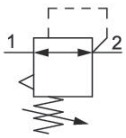
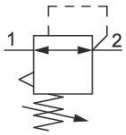
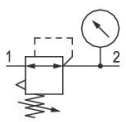
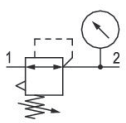
Flow rate characteristic (setting range p2: 0.5 - 10 bar)

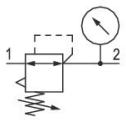
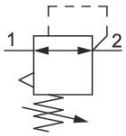
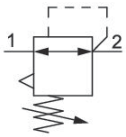
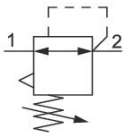


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

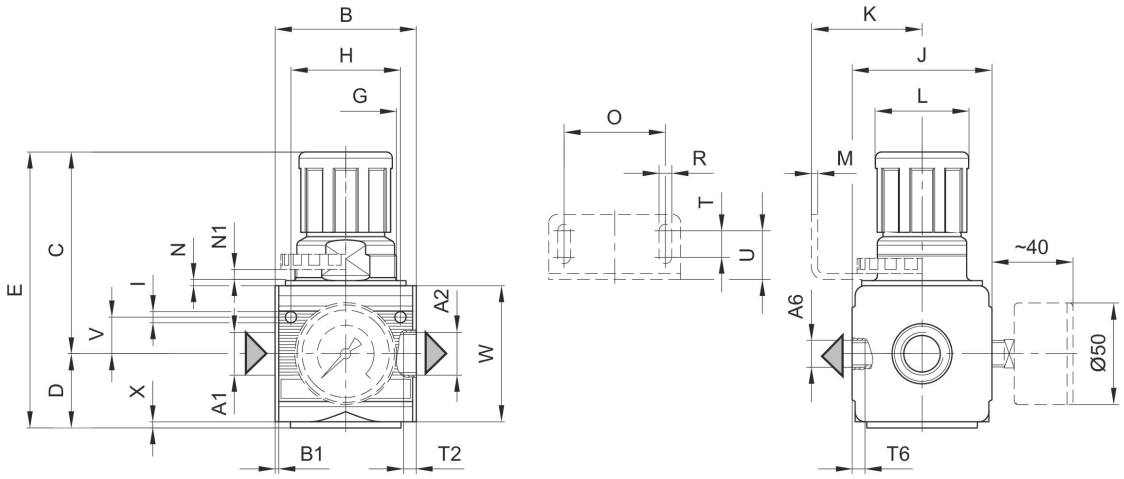
Pressure regulator, Series NL2-RGS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
Flow: 2000 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 1/4	2000	0.5, 16	0.1	3	with pressure gauge	0821302404
	G 1/4	2000	0.5, 16	0.2	6	with pressure gauge	0821302560
	G 1/4	2000	0.5, 16	0.5	10	with pressure gauge	0821302400
	G 1/4	2000	0.5, 16	0.1	3		0821302405
	G 1/4	2000	0.5, 16	0.2	6		0821302406
	G 1/4	2000	0.5, 16	0.5	10		0821302401
	G 3/8	2000	0.5, 16	0.1	3	with pressure gauge	0821302451
	G 3/8	2000	0.5, 16	0.2	6	with pressure gauge	0821302452

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 3/8	2000	0.5, 16	0.5	10	with pressure gauge	0821302440
	G 3/8	2000	0.5, 16	0.1	3		0821302444
	G 3/8	2000	0.5, 16	0.2	6		0821302453
	G 3/8	2000	0.5, 16	0.5	10		0821302441

Dimensions



A1 = input
A2 = output
A6 = output

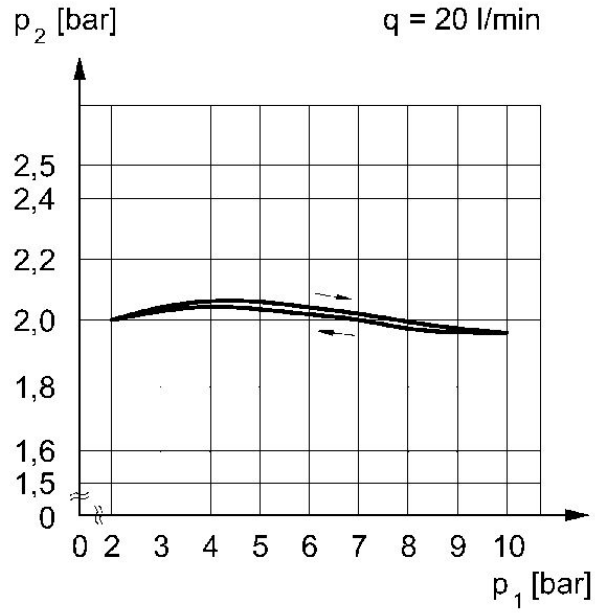
Dimensions in mm

Part No.	A2	A6	B	B1	C	D	E	G	H
0821302404	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302560	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302400	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302451	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302452	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302440	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302405	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302406	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302401	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302444	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302453	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36
0821302441	G 3/8	G 1/4	48	1.5	67.5	27	94.5	M30x1,5	36

Part No.	I	J	K	L	M	N	N1	O	R
0821302404	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302560	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302400	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302451	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302452	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302440	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302405	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302406	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302401	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302444	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302453	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302441	4.4	47	43.5	28	3	3	3.5	38	5.4

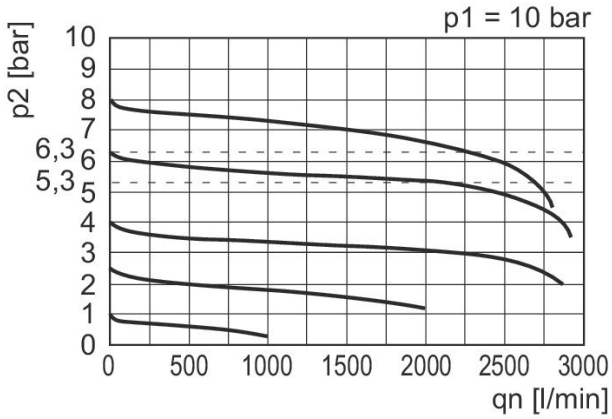
Part No.	T	T2	T6	U	V	W	X
0821302404	8	9.5	7	18.5	12.3	52	1
0821302560	8	9.5	7	18.5	12.3	52	1
0821302400	8	9.5	7	18.5	12.3	52	1
0821302451	8	9.5	7	18.5	12.3	52	1
0821302452	8	9.5	7	18.5	12.3	52	1
0821302440	8	9.5	7	18.5	12.3	52	1
0821302405	8	9.5	7	18.5	12.3	52	1
0821302406	8	9.5	7	18.5	12.3	52	1
0821302401	8	9.5	7	18.5	12.3	52	1
0821302444	8	9.5	7	18.5	12.3	52	1
0821302453	8	9.5	7	18.5	12.3	52	1
0821302441	8	9.5	7	18.5	12.3	52	1

Pressure characteristics curve



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

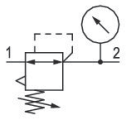
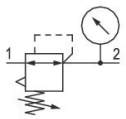
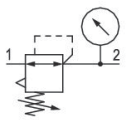
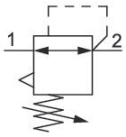
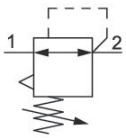
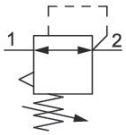
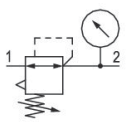
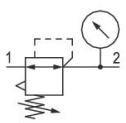
Flow rate characteristic (setting range p2: 0.5 - 10 bar)

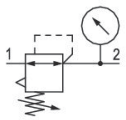
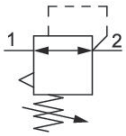
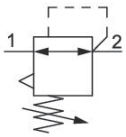
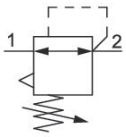


p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

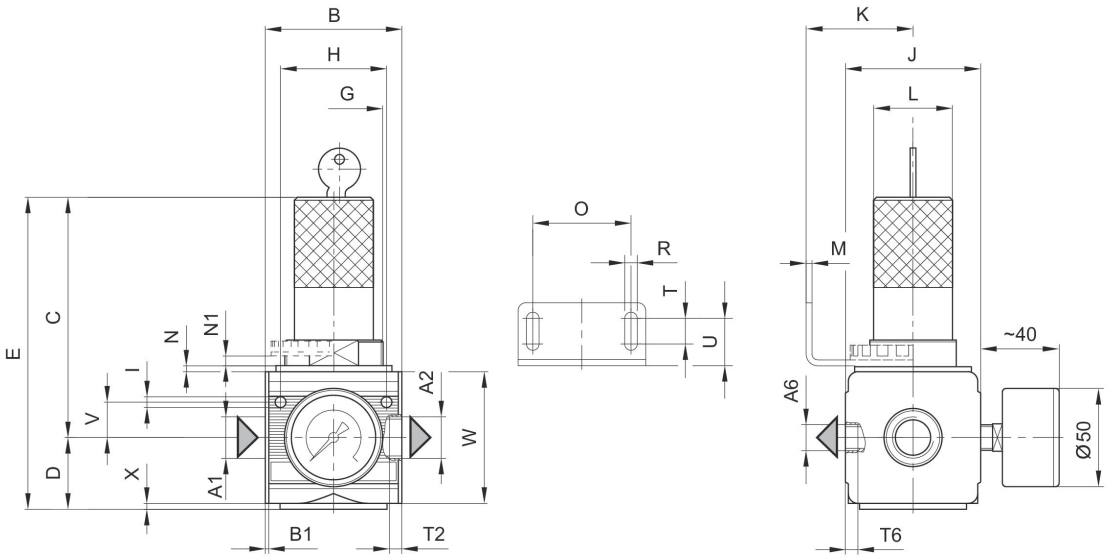
Pressure regulator, Series NL2-RGS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: lockable
: Standard locking, with key
Flow: 2000 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. regula-tion rangep2 [bar]	Max. regula-tion rangep2 [bar]	Pressure gauge	Part No.
	G 1/4	2000	0.5, 16	0.1	3	with pressure gauge	0821302410
	G 1/4	2000	0.5, 16	0.2	6	with pressure gauge	0821302561
	G 1/4	2000	0.5, 16	0.5	10	with pressure gauge	0821302402
	G 1/4	2000	0.5, 16	0.1	3		0821302562
	G 1/4	2000	0.5, 16	0.2	6		0821302407
	G 1/4	2000	0.5, 16	0.5	10		0821302403
	G 3/8	2000	0.5, 16	0.1	3	with pressure gauge	0821302454
	G 3/8	2000	0.5, 16	0.2	6	with pressure gauge	0821302455

	Port	Nominal flow [l/min]	Working pressure min./max. [bar]	Min. regulation rangep2 [bar]	Max. regulation rangep2 [bar]	Pressure gauge	Part No.
	G 3/8	2000	0.5, 16	0.5	10	with pressure gauge	0821302442
	G 3/8	2000	0.5, 16	0.1	3		0821302456
	G 3/8	2000	0.5, 16	0.2	6		0821302457
	G 3/8	2000	0.5, 16	0.5	10		0821302443

Dimensions



A1 = input
A2 = output
A6 = output

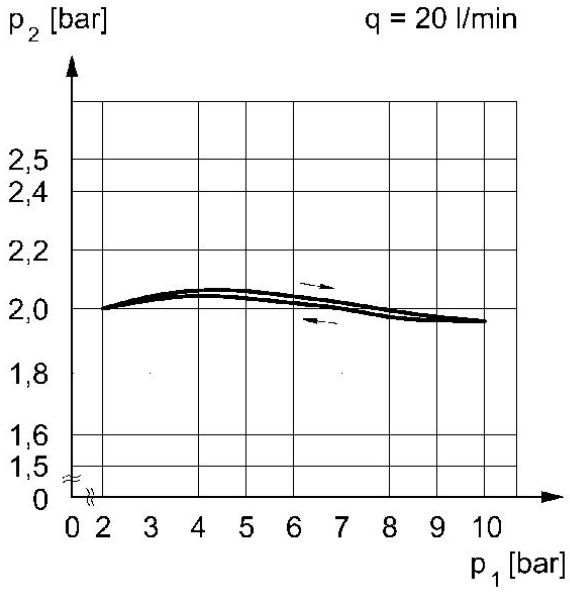
Dimensions in mm

Part No.	A2	A6	B	B1	C	D	E	G	H
0821302410	G 1/4	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302561	G 1/4	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302402	G 1/4	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302454	G 3/8	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302455	G 3/8	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302442	G 3/8	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302562	G 1/4	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302407	G 1/4	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302403	G 1/4	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302456	G 3/8	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302457	G 3/8	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36
0821302443	G 3/8	G 1/4	48	1.5	96.5	27	123.5	M30x1,5	36

Part No.	I	J	K	L	M	N	N1	O	R
0821302410	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302561	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302402	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302454	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302455	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302442	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302562	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302407	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302403	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302456	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302457	4.4	47	43.5	28	3	3	3.5	38	5.4
0821302443	4.4	47	43.5	28	3	3	3.5	38	5.4

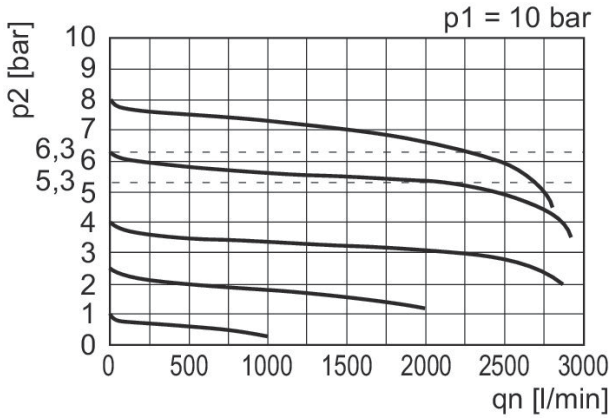
Part No.	T2	T6	U	V	W	X
0821302410	9.5	7	18.5	12.3	52	1
0821302561	9.5	7	18.5	12.3	52	1
0821302402	9.5	7	18.5	12.3	52	1
0821302454	9.5	7	18.5	12.3	52	1
0821302455	9.5	7	18.5	12.3	52	1
0821302442	9.5	7	18.5	12.3	52	1
0821302562	9.5	7	18.5	12.3	52	1
0821302407	9.5	7	18.5	12.3	52	1
0821302403	9.5	7	18.5	12.3	52	1
0821302456	9.5	7	18.5	12.3	52	1
0821302457	9.5	7	18.5	12.3	52	1
0821302443	9.5	7	18.5	12.3	52	1

Pressure characteristics curve



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

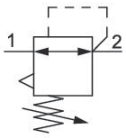
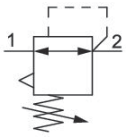
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



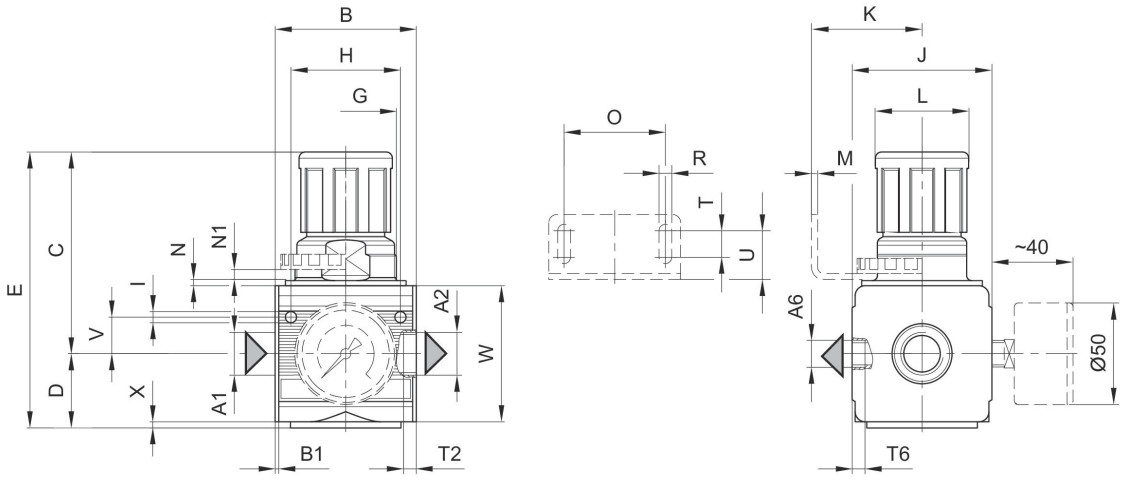
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL2-RGS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
Flow: 2000 l/min
Temperature resistance: -30 °C cold-resistant
Ambient temperature min./max.: -30 °C ... 60 °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	2000	0.5, 16	0.5	10	0821302107
	G 1/4	2000	0.5, 16	0.1	3	R412007613

Dimensions



A1 = input
A2 = output
A6 = output

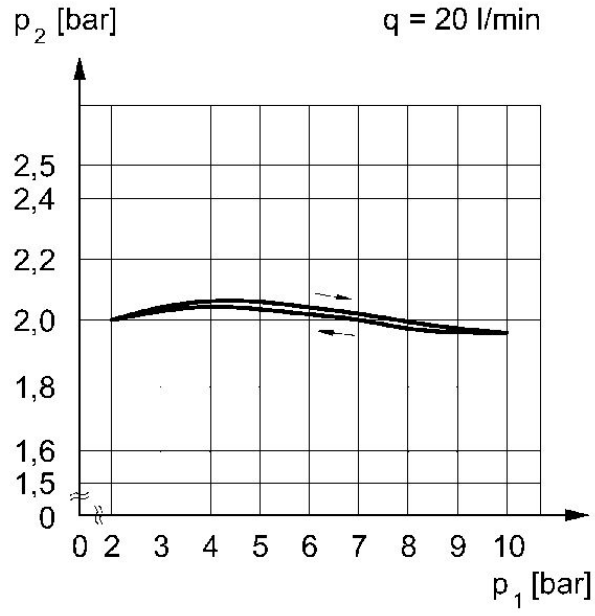
Dimensions in mm

Part No.	A1	A2	A6	B	B1	C	D	E	G
0821302107	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5
R412007613	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5

Part No.	H	I	J	K	L	M	N	N1	O
0821302107	36	4.4	47	43.5	28	3	3	3.5	38
R412007613	36	4.4	47	43.5	28	3	3	3.5	38

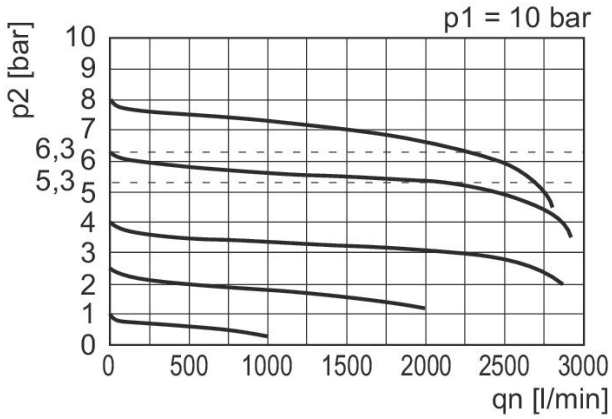
Part No.	R	T	T2	T6	U	V	W	X
0821302107	5.4	8	9.5	7	18.5	12.3	52	1
R412007613	5.4	8	9.5	7	18.5	12.3	52	1

Pressure characteristics curve



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

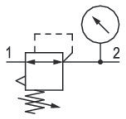
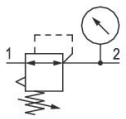
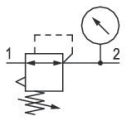
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



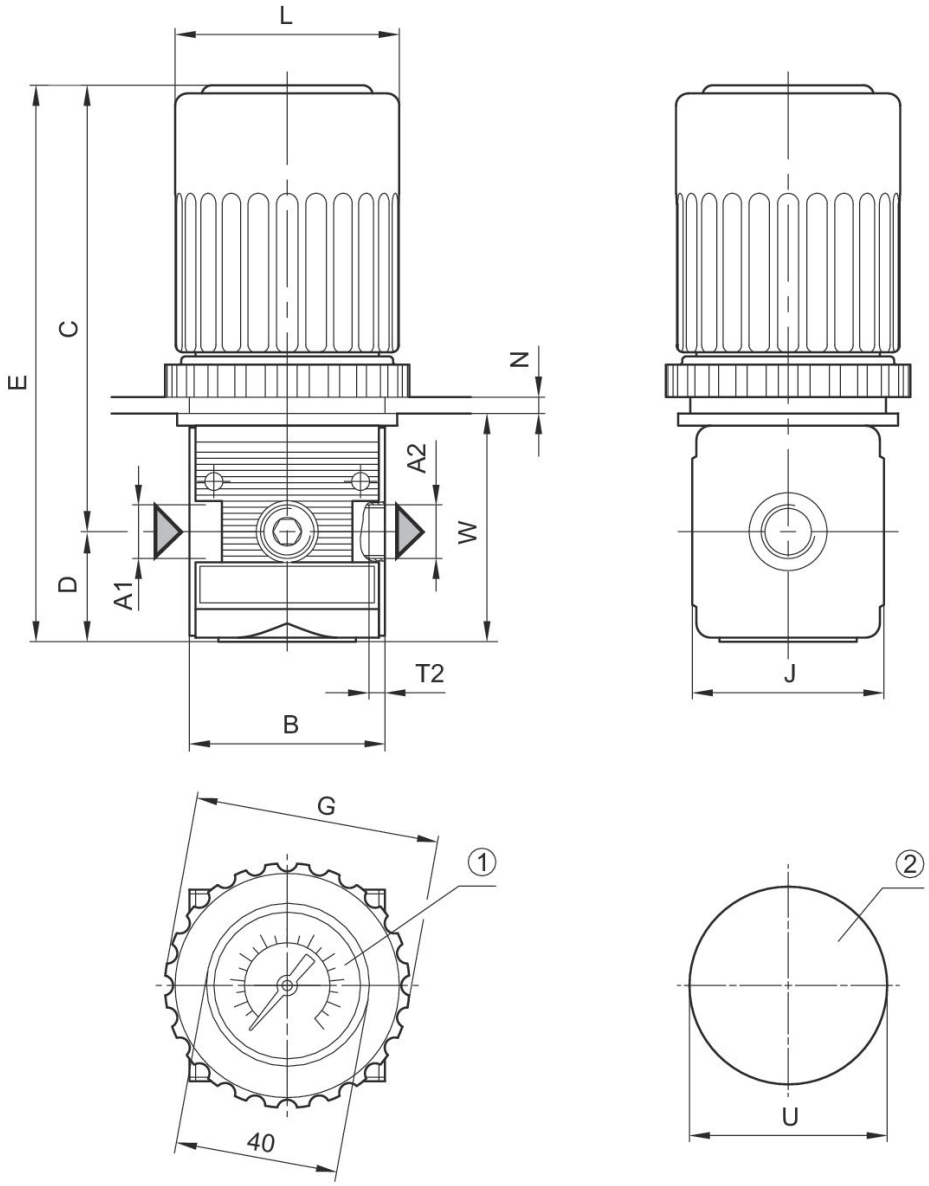
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Pressure regulator, Series NL2-RGS

Activation: Mechanical
Actuating element: Standard pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
: with pressure gauge in hand wheel
Flow: 2000 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 1/4	2000	0.5, 16	0.1	3	with pressure gauge in hand wheel	0821302557
	G 1/4	2000	0.5, 16	0.2	6	with pressure gauge in hand wheel	0821302559
	G 1/4	2000	0.5, 16	0.5	10	with pressure gauge in hand wheel	0821302558

Dimensions



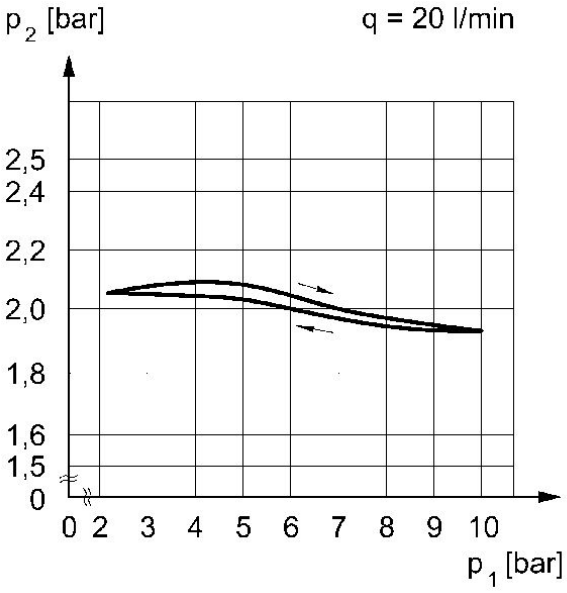
A1 = input
A2 = output
1) Pressure gauge Ø 40
2) Opening for control panel assembly

Dimensions in mm

Part No.	A1	A2	B	C	D	E	G	J	L
0821302557	G 1/4	G 1/4	48	107	27	133	60	47	54
0821302559	G 1/4	G 1/4	48	107	27	133	60	47	54
0821302558	G 1/4	G 1/4	48	107	27	133	60	47	54

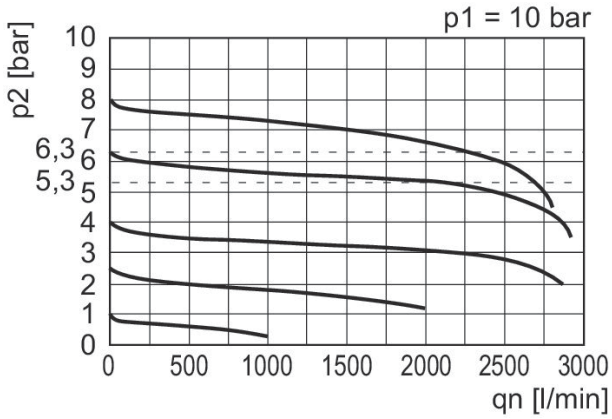
Part No.	N	T2	U	W
0821302557	4	9.5	48.5	55
0821302559	4	9.5	48.5	55
0821302558	4	9.5	48.5	55

Pressure characteristics curve



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

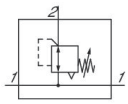
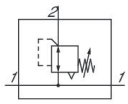
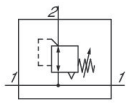
Flow rate characteristic (setting range p2: 0.5 - 10 bar)



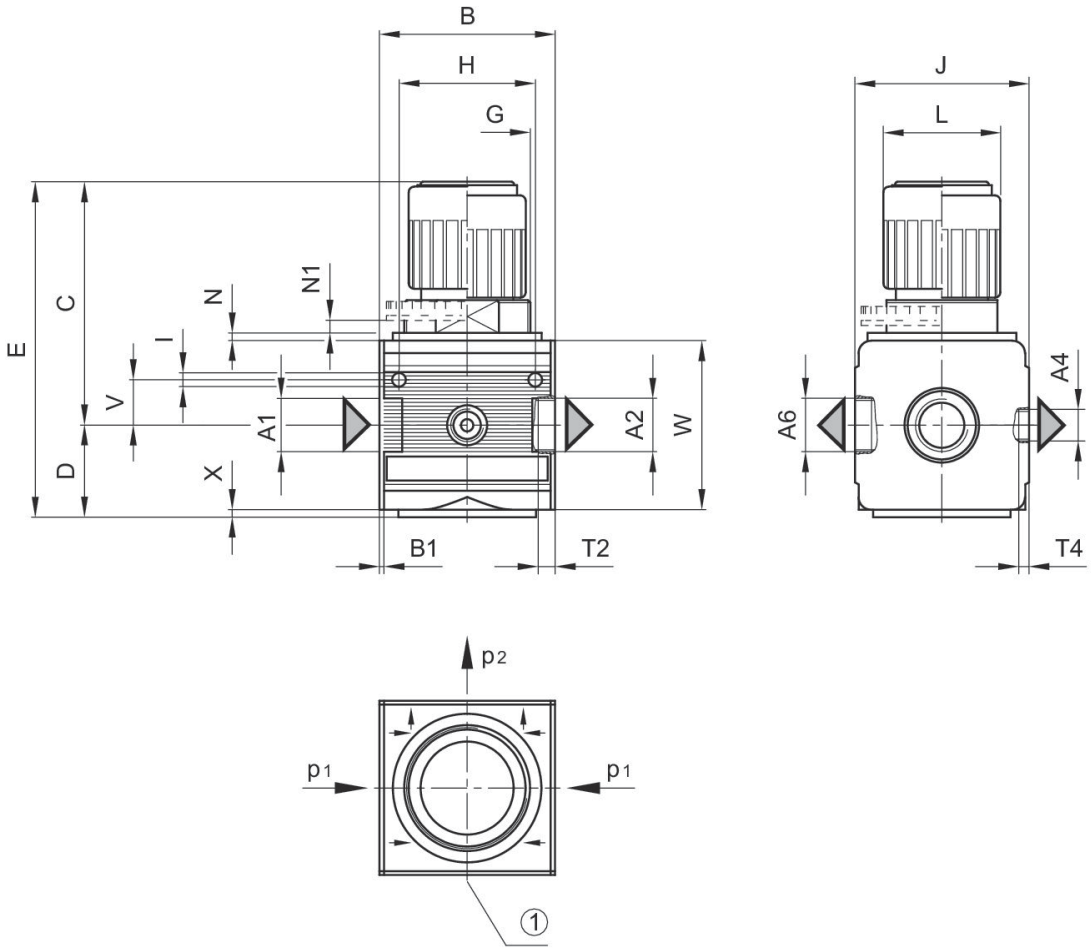
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

Precision pressure regulator, Series NL2-RGP-...-DS

Activation: Mechanical
Actuating element: Precision pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
Flow: 1500 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	1500	0.5, 16	0.1	3	0821302527
	G 1/4	1500	0.5, 16	0.2	6	0821302528
	G 1/4	1500	0.5, 16	0.5	10	0821302529

Dimensions



A1 = input A2 = output A6 = output
1) pressure gauge connection p1 = working pressure p2 = secondary pressure

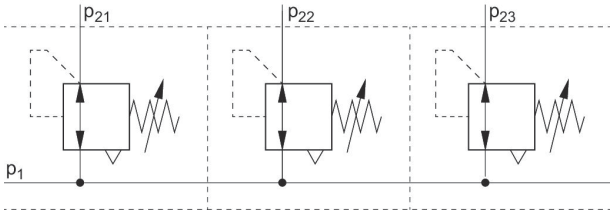
Dimensions in mm

Part No.	A1	A2	A4	A6	B	B1	C	D	E
0821302527	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5
0821302528	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5
0821302529	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5

Part No.	G	H	I	J	L	N	N1	T2	T4
0821302527	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302528	M30x1,5	36	4.4	47	28	3	3.5	9.5	7
0821302529	M30x1,5	36	4.4	47	28	3	3.5	9.5	7

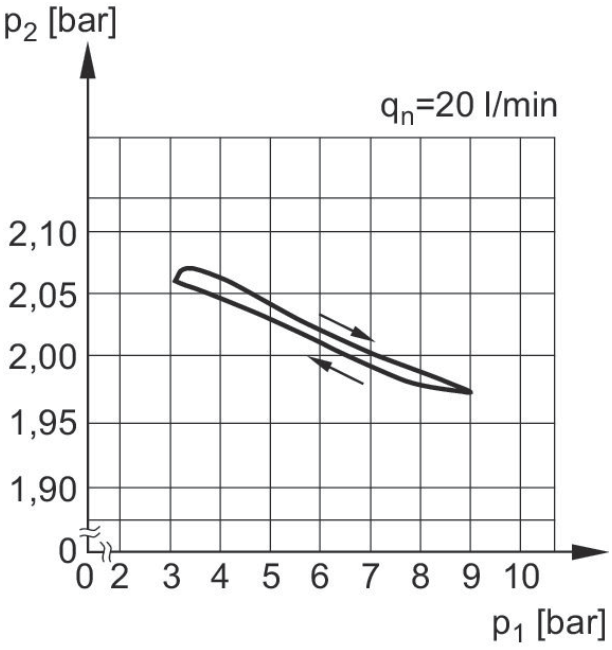
Part No.	V	W	X
0821302527	12.3	52	1
0821302528	12.3	52	1
0821302529	12.3	52	1

Application example



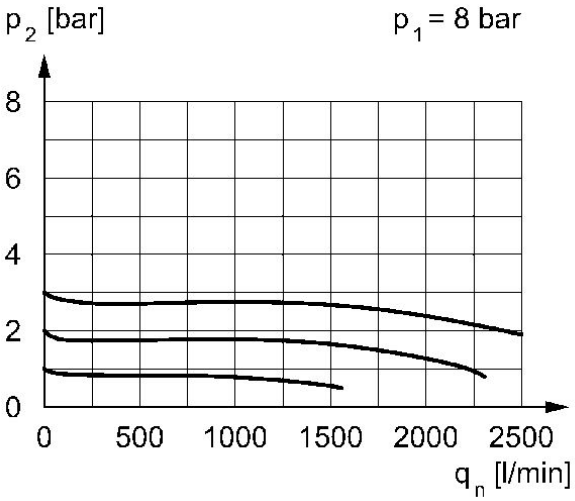
p1 = Working pressure

Pressure characteristics curve



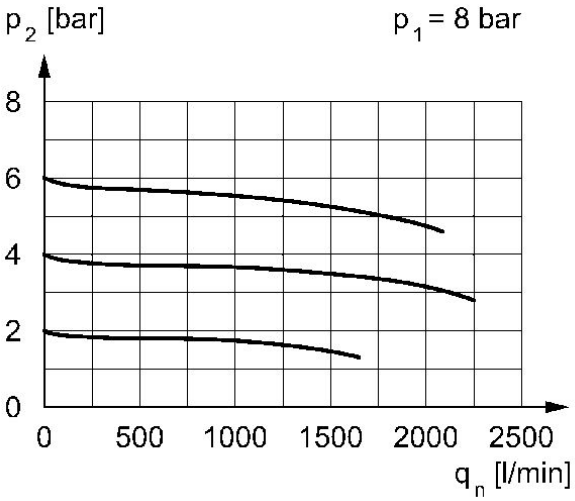
p1 = Working pressure
p2 = Secondary pressure
qn = Nominal flow

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



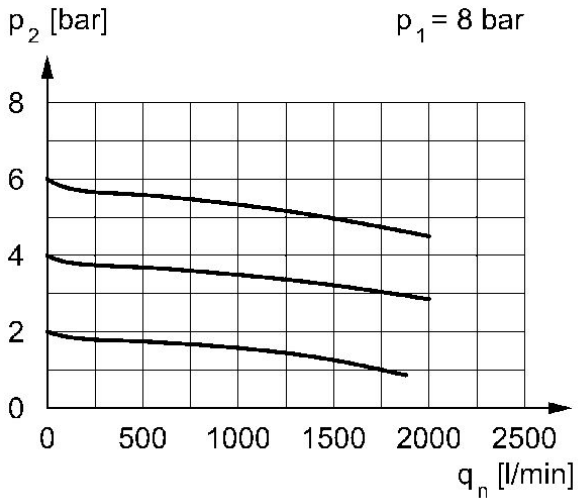
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,1 - 3 bar

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



p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,2 - 6 bar

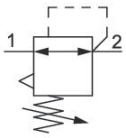
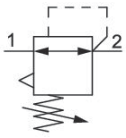
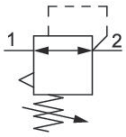
Flow rate characteristic, p2 = 0,05 - 7 bar



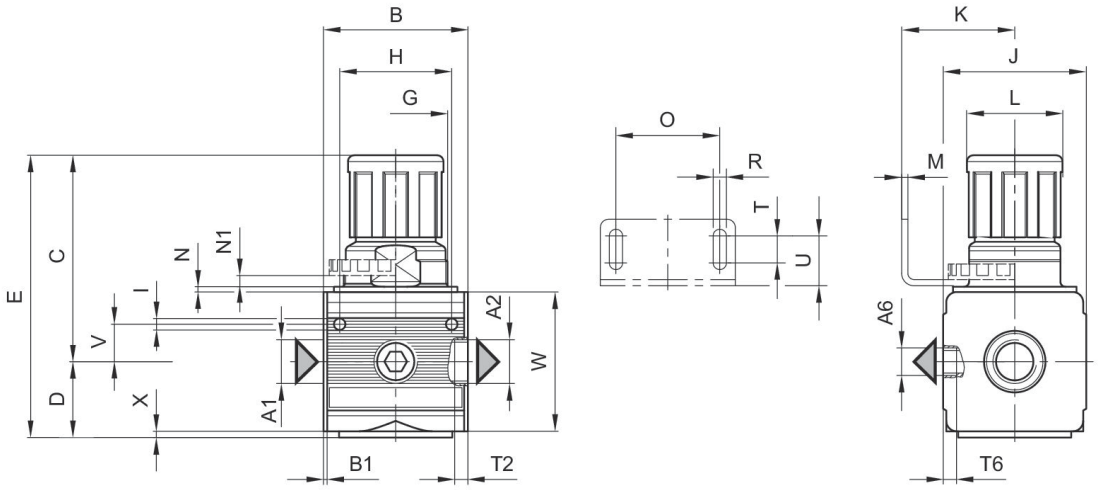
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,5 - 10 bar

Precision pressure regulator, Series NL2-RGP

Activation: Mechanical
Actuating element: Precision pressure regulator
Mounting orientation: Any
: Can be assembled into blocks
: not lockable
Flow: 1500 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. regula-tion rangep2 [bar]	Max. regula-tion rangep2 [bar]	Part No.
	G 1/4	1500	0.5, 16	0.1	3	0821302515
	G 1/4	1500	0.5, 16	0.2	6	0821302516
	G 1/4	1500	0.5, 16	0.5	10	0821302517

Dimensions



A1 = input A2 = output A6 = output

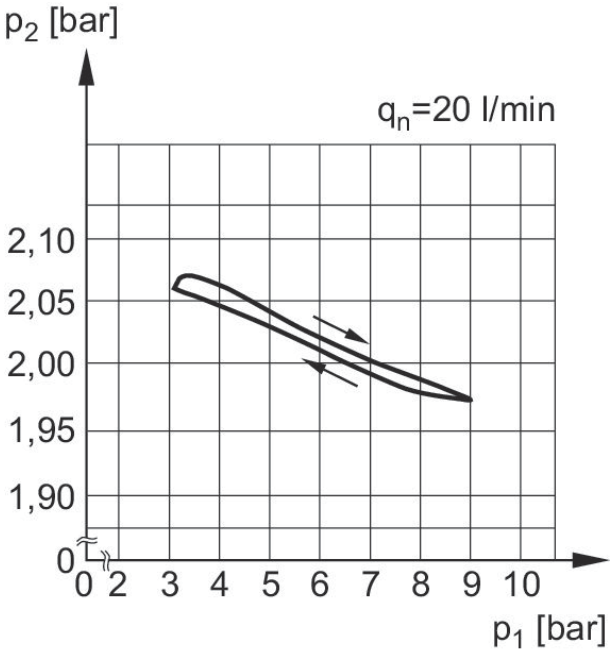
Dimensions in mm

Part No.	A1	A2	A6	B	B1	C	D	E	G
0821302515	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5
0821302516	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5
0821302517	G 1/4	G 1/4	G 1/4	48	1.5	67.5	27	94.5	M30x1,5

Part No.	H	I	J	K	L	M	N	N1	O
0821302515	36	4.4	47	43.5	28	3	3	3.5	38
0821302516	36	4.4	47	43.5	28	3	3	3.5	38
0821302517	36	4.4	47	43.5	28	3	3	3.5	38

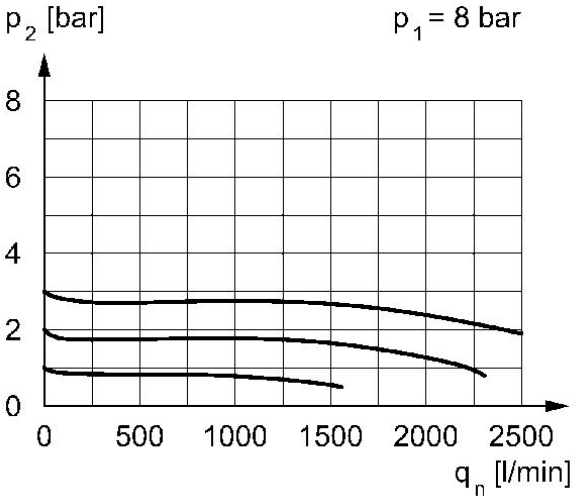
Part No.	R	T	T2	T6	U	V	W	X
0821302515	5.4	8	9.5	7	18.5	12.3	52	1
0821302516	5.4	8	9.5	7	18.5	12.3	52	1
0821302517	5.4	8	9.5	7	18.5	12.3	52	1

Pressure characteristics curve



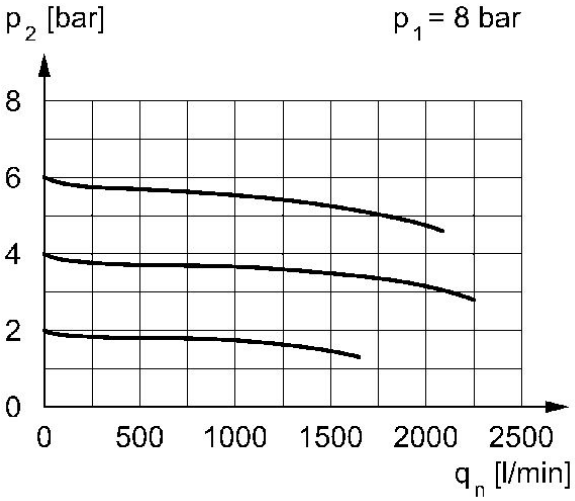
p1 = Working pressure
p2 = Secondary pressure
q = flow rate

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



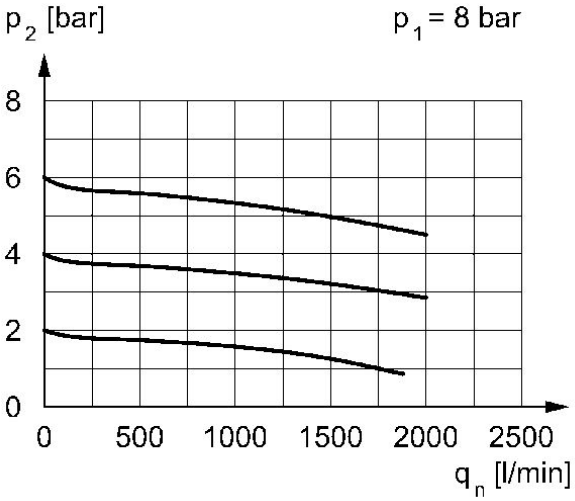
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,1 - 3 bar

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



p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,2 - 6 bar

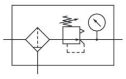
Flow rate characteristic, p2 = 0,05 - 7 bar



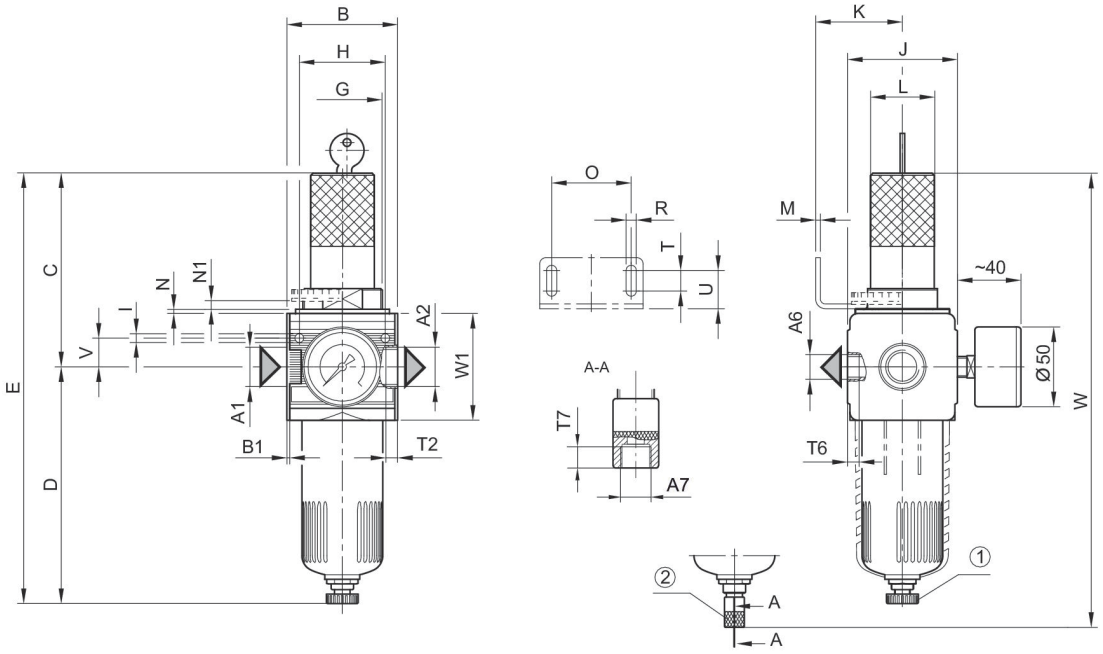
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow
p2 = 0,5 - 10 bar

Filter pressure regulator, Series NL2-FRE

Flow: 1650 l/min
Parts: Filter pressure regulator
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2 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, metal, with inspection glass	0.5	10	0821300221

Dimensions



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

Dimensions in mm

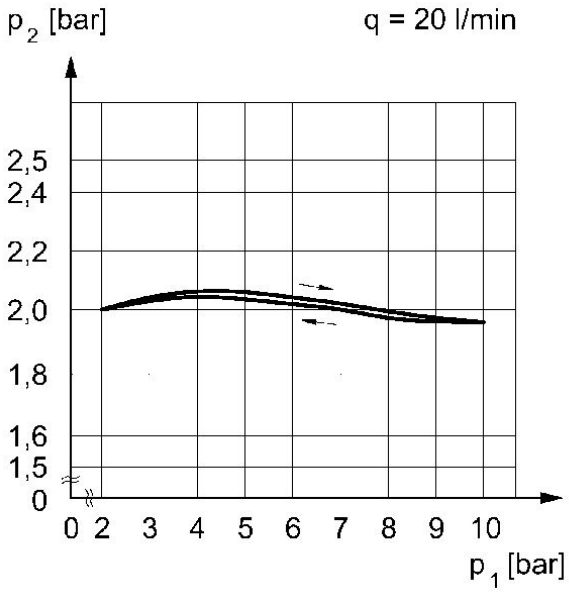
Part No.	A1	A2	A6	A7	B	B1	C	D	E
0821300221	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221
0821300223	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	96.5	124.5	221
0821300224	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221
0821300228	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	96.5	124.5	221

Part No.	G	H	I	J	K	L	M	N	N1
0821300221	M30x1,5	36	4.4	47	43.5	28	3	3.5	3
0821300223	M30x1,5	36	4.4	47	43.5	28	3	3.5	3
0821300224	M30x1,5	36	4.4	47	43.5	28	3	3.5	3
0821300228	M30x1,5	36	4.4	47	43.5	28	3	3.5	3

Part No.	O	R	T	T2	T6	T7	U	V	W
0821300221	38	5.4	8	9.5	7	8.5	18.5	12.3	243
0821300223	38	5.4	8	9.5	7	8.5	18.5	12.3	243
0821300224	38	5.4	8	9.5	7	8.5	18.5	12.3	243
0821300228	38	5.4	8	9.5	7	8.5	18.5	12.3	243

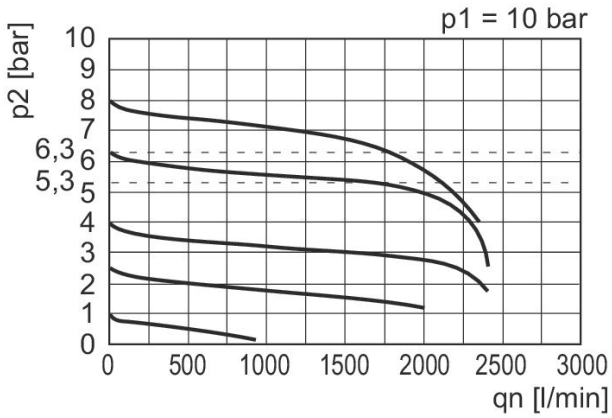
Part No.	W1
0821300221	52
0821300223	52
0821300224	52
0821300228	52

Pressure characteristics curve



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

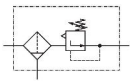
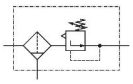
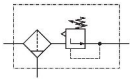
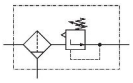
Flow rate characteristic, p2 = 0,05 - 7 bar



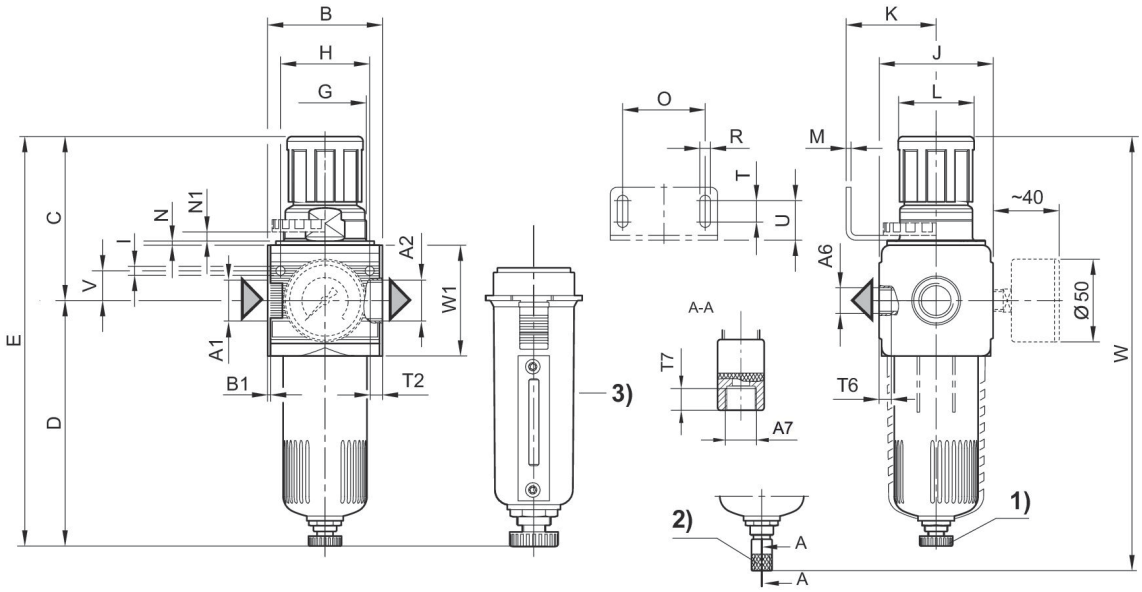
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Filter pressure regulator, Series NL2-FRE

Flow: 1650 l/min
Parts: Filter pressure regulator
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2 bar ... 16 bar

	Port	Condensate drain	Reservoir	Min. regulation range [bar]	Max. regulation range [bar]	Part No.
	G 1/4	semi-automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300316
	G 1/4	semi-automatic, open without pressure	reservoir, metal, with inspection glass	0.5	10	0821300275
	G 1/4	fully automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300347
	G 3/8	semi-automatic, open without pressure	reservoir, polycarbonate, without protective guard	0.5	10	0821300343

Dimensions



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

Dimensions in mm

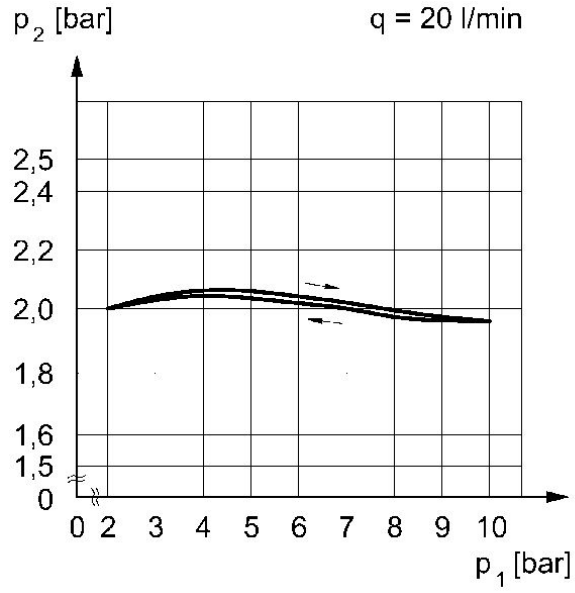
Part No.	A1	A2	A6	A7	B	B1	C	D	E
0821300316	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	66.5	124.5	191
0821300275	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	66.5	124.5	191
0821300347	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	66.5	124.5	191
0821300343	G 3/8	G 3/8	G 1/4	G 1/8	48	1.5	66.5	124.5	191

Part No.	G	H	I	J	K	L	M	N	N1
0821300316	M30x1,5	36	4.4	47	43.5	28	3	3.5	3
0821300275	M30x1,5	36	4.4	47	43.5	28	3	3.5	3
0821300347	M30x1,5	36	4.4	47	43.5	28	3	3.5	3
0821300343	M30x1,5	36	4.4	47	43.5	28	3	3.5	3

Part No.	O	R	T	T2	T6	T7	U	V	W
0821300316	38	5.4	8	9.5	7	8.5	18.5	12.3	207
0821300275	38	5.4	8	9.5	7	8.5	18.5	12.3	207
0821300347	38	5.4	8	9.5	7	8.5	18.5	12.3	207
0821300343	38	5.4	8	9.5	7	8.5	18.5	12.3	207

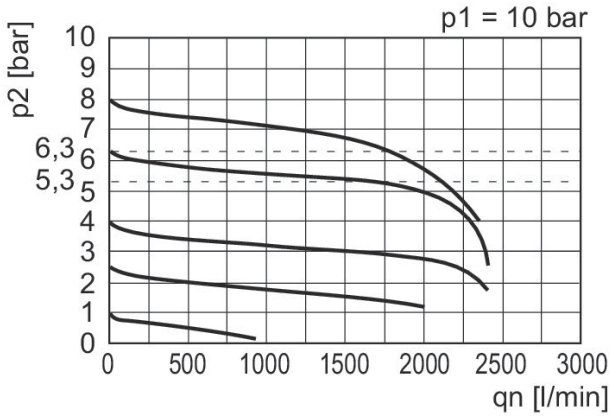
Part No.	W1
0821300316	52
0821300275	52
0821300347	52
0821300343	52

Pressure characteristics curve



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

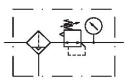
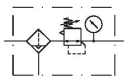
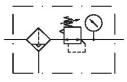
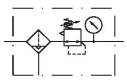
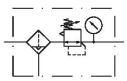
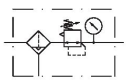
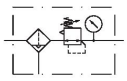
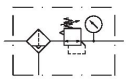
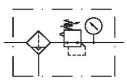
Flow rate characteristic, p2 = 0,05 - 7 bar

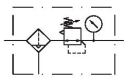
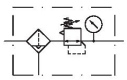


p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

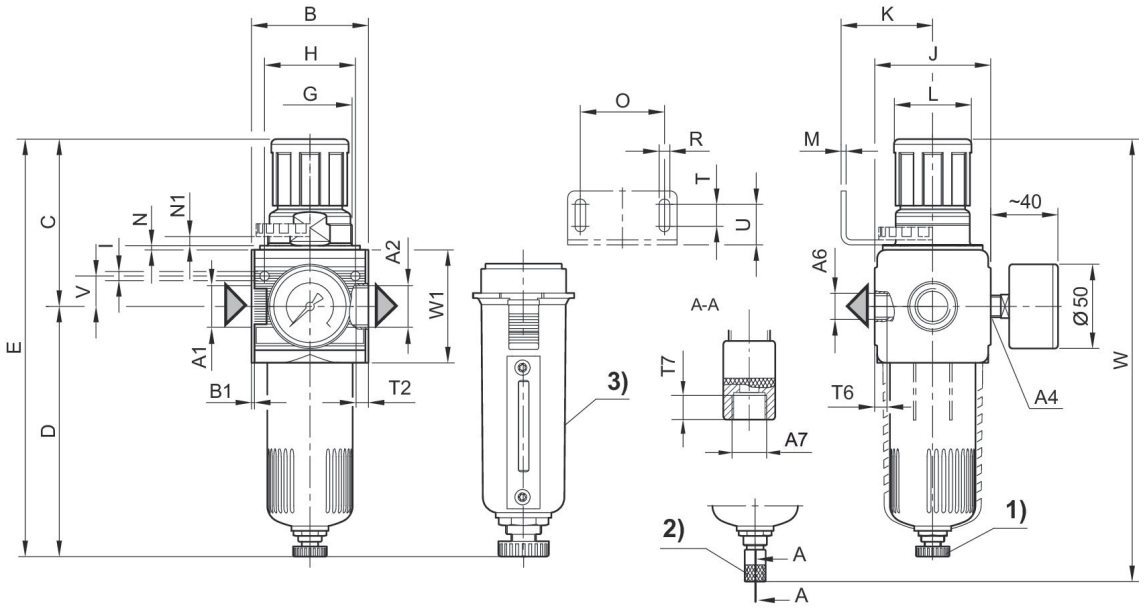
Filter pressure regulator, Series NL2-FRE

Flow: 1650 l/min
Parts: Filter pressure regulator
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2 bar ... 16 bar

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Protec-tive guard	Part No.
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300300
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300301
	G 1/4	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	0.5	10		0821300302
	G 1/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300303
	G 1/4	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300304
	G 1/4	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	0.5	10		0821300305
	G 3/8	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300330
	G 3/8	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300331
	G 3/8	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	0.5	10		0821300333

	Port	Conden-sate drain	Reservoir	Min. regula-tion range [bar]	Max. regula-tion range [bar]	Protec-tive guard	Part No.
	G 3/8	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with met-al protective guard	0.5	10	Steel, chrome-plat-ed	0821300334
	G 3/8	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	0.5	10		0821300335

Dimensions



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

Dimensions in mm

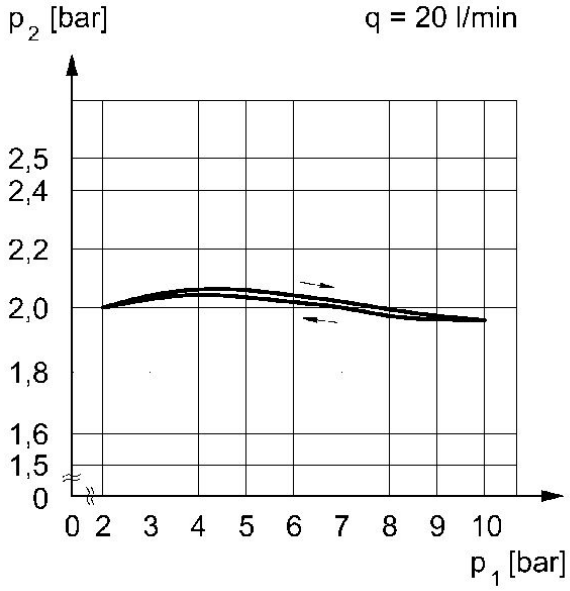
Part No.	A1	A2	A4	A6	A7	B	B1	C	D
0821300300	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300301	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300302	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300303	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300304	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300307	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300308	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300305	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300330	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300331	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300332	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300333	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300334	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5
0821300335	G 3/8	G 3/8	G 1/4	G 1/4	G 1/8	48	1.5	71	124.5

Part No.	E	G	H	I	J	K	L	M	N
0821300300	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300301	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300302	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300303	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300304	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300307	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300308	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300305	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300330	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300331	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300332	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300333	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300334	191	M30x1,5	36	4.4	47	43.5	28	3	3.5
0821300335	191	M30x1,5	36	4.4	47	43.5	28	3	3.5

Part No.	N1	O	R	T	T2	T6	T7	U	V
0821300300	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300301	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300302	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300303	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300304	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300307	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300308	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300305	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300330	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300331	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300332	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300333	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300334	3	38	5.4	8	9.5	7	8.5	18.5	12.3
0821300335	3	38	5.4	8	9.5	7	8.5	18.5	12.3

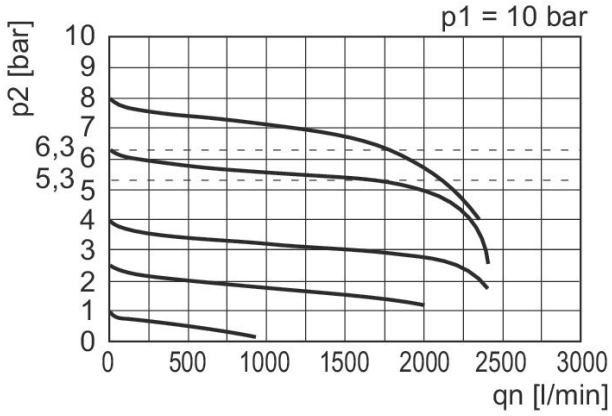
Part No.	W	W1
0821300300	217.5	52
0821300301	217.5	52
0821300302	217.5	52
0821300303	217.5	52
0821300304	217.5	52
0821300307	217.5	52
0821300308	217.5	52
0821300305	217.5	52
0821300330	217.5	52
0821300331	217.5	52
0821300332	217.5	52
0821300333	217.5	52
0821300334	217.5	52
0821300335	217.5	52

Pressure characteristics curve



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

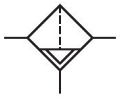
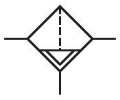
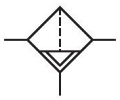
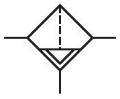
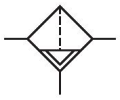
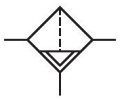
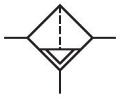
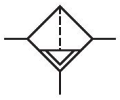
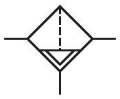
Flow rate characteristic, p2 = 0,05 - 7 bar

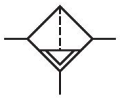
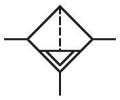
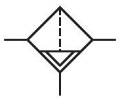


p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

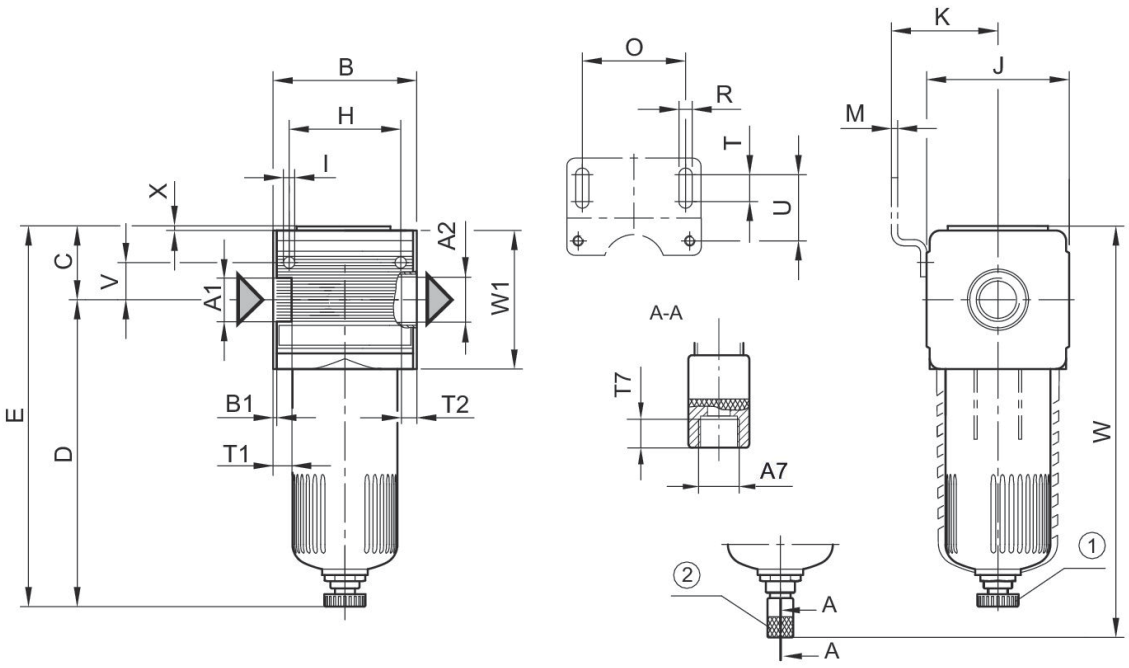
Filter, Series NL2-FLS

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 2100 l/min
Filter porosity: 5 µm
Filter reservoir volume: 25 cm³
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2 bar ... 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1/4	2100	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303400
	G 1/4	2100	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	Cellpor	0821303401
	G 1/4	2100	5	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Cellpor	0821303402
	G 1/4	2100	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303403
	G 1/4	2100	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with met-al protective guard	Cellpor	0821303404
	G 1/4	2100	5	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Cellpor	0821303405
	G 3/8	2100	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303440
	G 3/8	2100	5	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	Cellpor	0821303441
	G 3/8	2100	5	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Cellpor	0821303442

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 3/8	2100	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, without protective guard	Cellpor	0821303443
	G 3/8	2100	5	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with met-al protective guard	Cellpor	0821303444
	G 3/8	2100	5	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Cellpor	0821303445

Dimensions



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

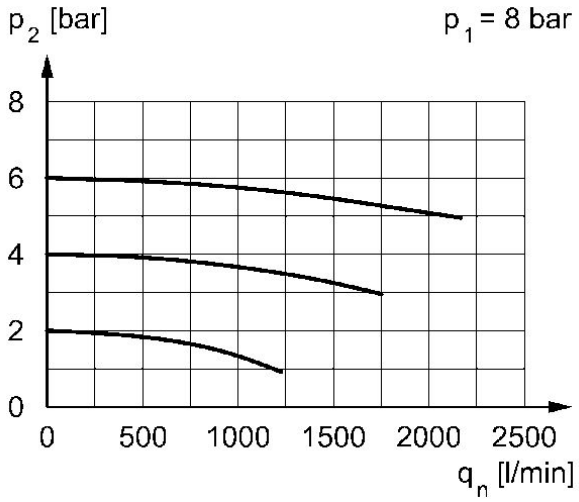
Dimensions in mm

Part No.	A1	A2	A7	B	B1	C	D	E	H
0821303400	G 1/4	G 1/4	G 1/8	48	1.5	27.5	124.5	152	36
0821303401	G 1/4	G 1/4	G 1/8	48	1.5	27.5	124.5	152	36
0821303402	G 1/4	G 1/4	G 1/8	48	1.5	27.5	124.5	152	36
0821303403	G 1/4	G 1/4	G 1/8	48	1.5	27.5	124.5	152	36
0821303404	G 1/4	G 1/4	G 1/8	48	1.5	27.5	124.5	152	36
0821303405	G 1/4	G 1/4	G 1/8	48	1.5	27.5	124.5	152	36
0821303440	G 3/8	G 3/8	G 1/8	48	1.5	27.5	124.5	152	36
0821303441	G 3/8	G 3/8	G 1/8	48	1.5	27.5	124.5	152	36
0821303442	G 3/8	G 3/8	G 1/8	48	1.5	27.5	124.5	152	36
0821303443	G 3/8	G 3/8	G 1/8	48	1.5	27.5	124.5	152	36
0821303444	G 3/8	G 3/8	G 1/8	48	1.5	27.5	124.5	152	36
0821303445	G 3/8	G 3/8	G 1/8	48	1.5	27.5	124.5	152	36

Part No.	I	J	K	M	O	R	T	T1	T2
0821303400	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303401	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303402	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303403	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303404	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303405	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303440	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303441	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303442	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303443	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303444	4.4	47	43.5	3	38	5.4	8	9.5	9.5
0821303445	4.4	47	43.5	3	38	5.4	8	9.5	9.5

Part No.	T7	U	V	W	W1	X
0821303400	8.5	27.5	12.3	165	156	1.5
0821303401	8.5	27.5	12.3	165	156	1.5
0821303402	8.5	27.5	12.3	165	156	1.5
0821303403	8.5	27.5	12.3	165	156	1.5
0821303404	8.5	27.5	12.3	165	156	1.5
0821303405	8.5	27.5	12.3	165	156	1.5
0821303440	8.5	27.5	12.3	165	156	1.5
0821303441	8.5	27.5	12.3	165	156	1.5
0821303442	8.5	27.5	12.3	165	156	1.5
0821303443	8.5	27.5	12.3	165	156	1.5
0821303444	8.5	27.5	12.3	165	156	1.5
0821303445	8.5	27.5	12.3	165	156	1.5

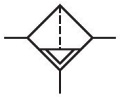
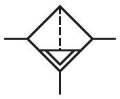
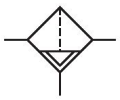
Flow rate characteristic, p2 = 0,05 - 7 bar



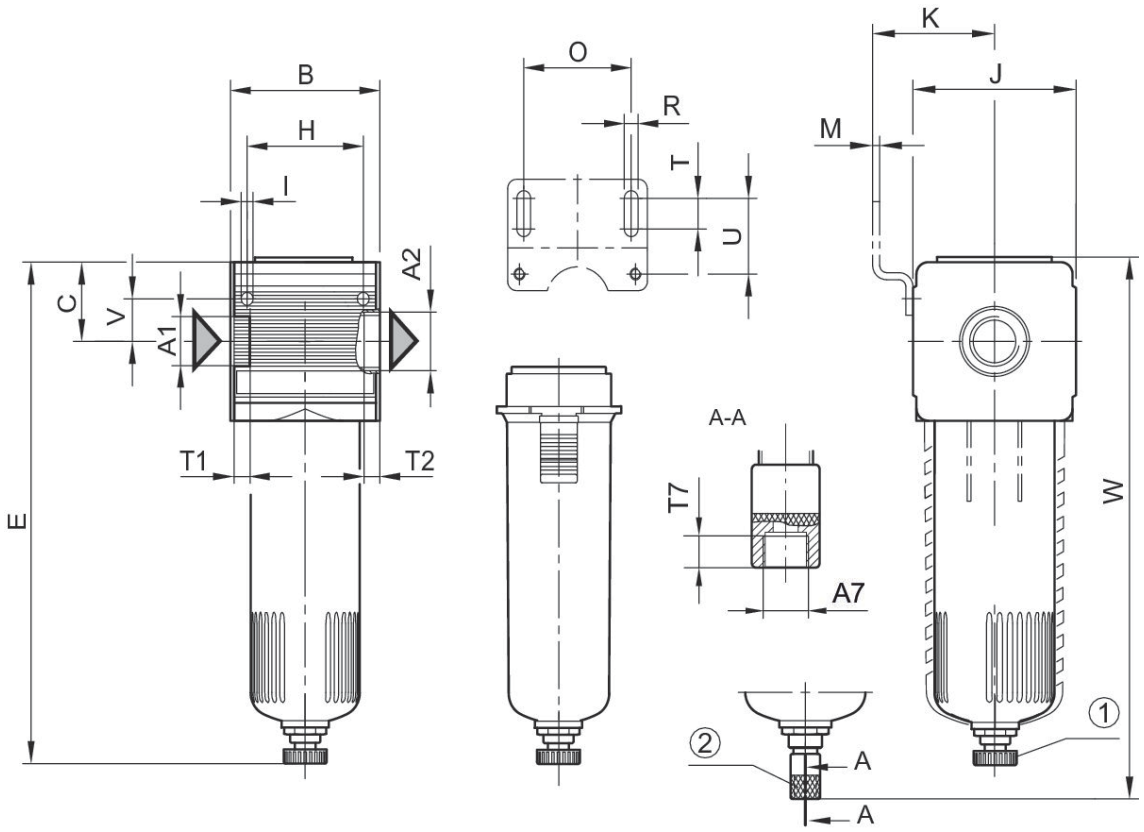
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Pre-filter, Series NL2-FLP

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 380 l/min
Filter porosity: 0.3 µm
Filter reservoir volume: 10 cm³
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 2 bar ... 16 bar

	Port	Nominal flow [l/min]	Filter porosity [µm]	Conden-sate drain	Reservoir	Filter insert	Part No.
	G 1/4	380	0.3	semi-auto-matic, open without pres-sure	Reservoir polycarbon-ate	Impregnated paper	0821303308
	G 1/4	380	0.3	fully automat-ic, open with-out pressure	Reservoir polycarbon-ate	Impregnated paper	0821303309
	G 1/4	380	0.3	fully automat-ic, open with-out pressure	Metal reser-voir without window	Impregnated paper	R412010785

Dimensions



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

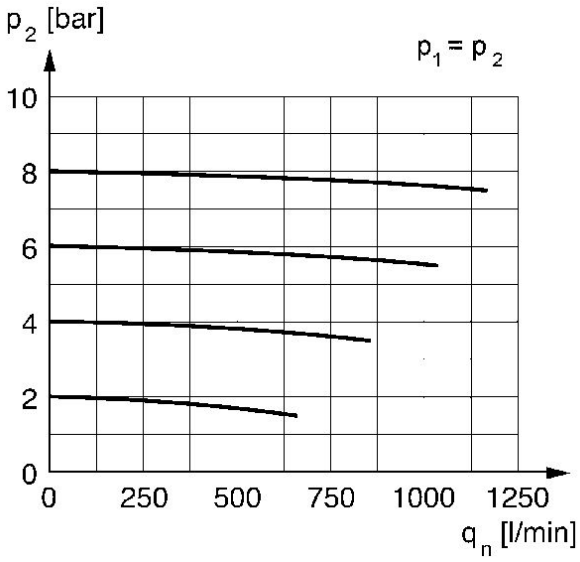
Dimensions in mm

Part No.	A1	A2	A7	B	C	E	H	I	J
0821303308	G 1/4	G 1/4	G 1/8	48	27.5	152	36	4.4	47
0821303309	G 1/4	G 1/4	G 1/8	48	27.5	–	36	4.4	47
R412010785	G 1/4	G 1/4	G 1/8	48	27.5	–	36	4.4	47

Part No.	K	M	O	R	T	T1	T2	T7	U
0821303308	43.5	3	38	5.4	8	9.5	9.5	8.5	27.5
0821303309	43.5	3	38	5.4	8	9.5	9.5	8.5	27.5
R412010785	43.5	3	38	5.4	8	9.5	9.5	8.5	27.5

Part No.	V	W
0821303308	12.3	–
0821303309	12.3	168
R412010785	12.3	168

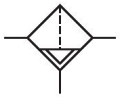
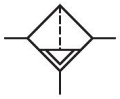
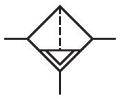
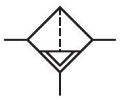
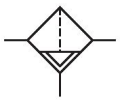
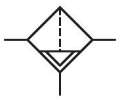
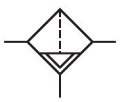
Flow rate characteristic, p2 = 0,05 - 7 bar



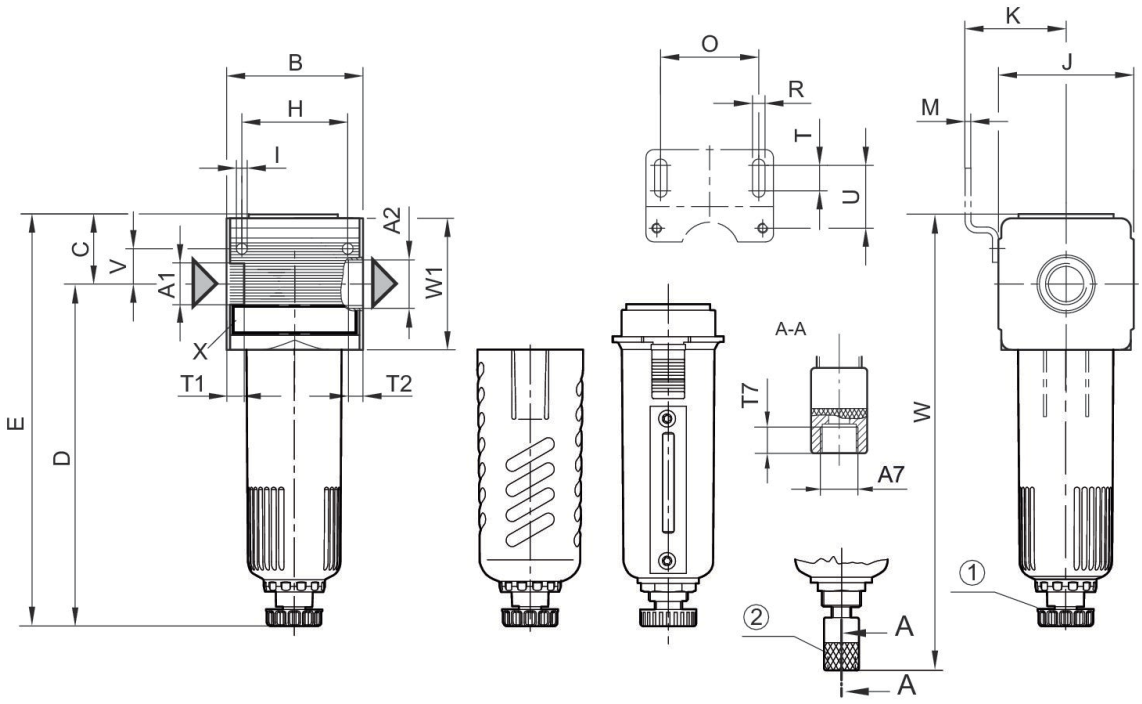
p2 = secondary pressure qn = nominal flow

Microfilter, Series NL2-FLC

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Flow: 280 l/min
Filter porosity: 0.01 µm
Filter reservoir volume: 10 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 1/4	280	0.01	semi-auto-matic, open without pres-sure	Reservoir polycarbon-ate	Borosilicate glass fiber	0821303449
	G 1/4	280	0.01	semi-auto-matic, open without pres-sure	reservoir, polycarbon-ate, with met-al protective guard	Borosilicate glass fiber	R412010787
	G 1/4	280	0.01	semi-auto-matic, open without pres-sure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412010788
	G 1/4	280	0.01	fully automat-ic, open with-out pressure	Metal reser-voir without window	Borosilicate glass fiber	R412010786
	G 1/4	280	0.01	fully automat-ic, open with-out pressure	Reservoir polycarbon-ate	Borosilicate glass fiber	0821303305
	G 1/4	280	0.01	fully automat-ic, open with-out pressure	reservoir, polycarbon-ate, with met-al protective guard	Borosilicate glass fiber	R412010789
	G 1/4	280	0.01	fully automat-ic, open with-out pressure	reservoir, metal, with inspection glass	Borosilicate glass fiber	R412010790

Dimensions



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

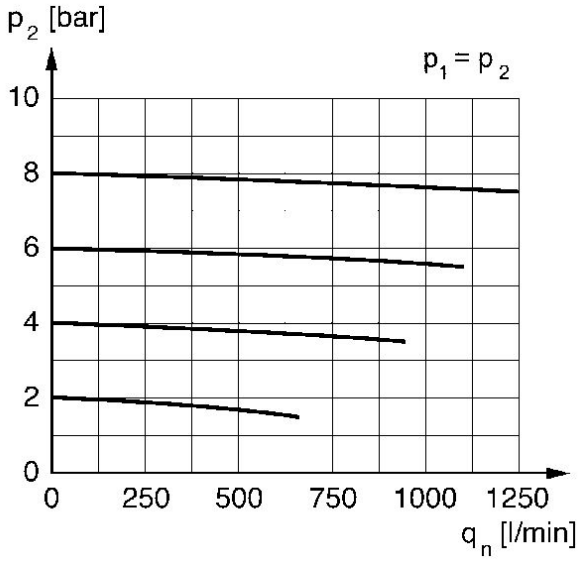
Dimensions in mm

Part No.	A1	A2	A7	B	C	D	E	H	I
0821303449	G 1/4	G 1/4	G 1/8	48	27.5	125	152	36	4.4
R412010787	G 1/4	G 1/4	G 1/8	48	27.5	125	152	36	4.4
R412010788	G 1/4	G 1/4	G 1/8	48	27.5	125	152	36	4.4
R412010786	G 1/4	G 1/4	G 1/8	48	27.5	–	–	36	4.4
0821303305	G 1/4	G 1/4	G 1/8	48	27.5	–	–	36	4.4
R412010789	G 1/4	G 1/4	G 1/8	48	27.5	–	–	36	4.4
R412010790	G 1/4	G 1/4	G 1/8	48	27.5	–	–	36	4.4

Part No.	J	K	M	O	R	T	T1	T2	T7
0821303449	47	43.5	3	38	5.4	8	9.5	9.5	8.5
R412010787	47	43.5	3	38	5.4	8	9.5	9.5	8.5
R412010788	47	43.5	3	38	5.4	8	9.5	9.5	8.5
R412010786	47	43.5	3	38	5.4	8	9.5	9.5	8.5
0821303305	47	43.5	3	38	5.4	8	9.5	9.5	8.5
R412010789	47	43.5	3	38	5.4	8	9.5	9.5	8.5
R412010790	47	43.5	3	38	5.4	8	9.5	9.5	8.5

Part No.	U	V	W	W1
0821303449	27.5	12.3	–	52
R412010787	27.5	12.3	–	52
R412010788	27.5	12.3	–	52
R412010786	27.5	12.3	168	52
0821303305	27.5	12.3	168	52
R412010789	27.5	12.3	168	52
R412010790	27.5	12.3	168	52

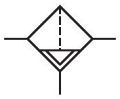
Flow rate characteristic, p2 = 0,05 - 7 bar



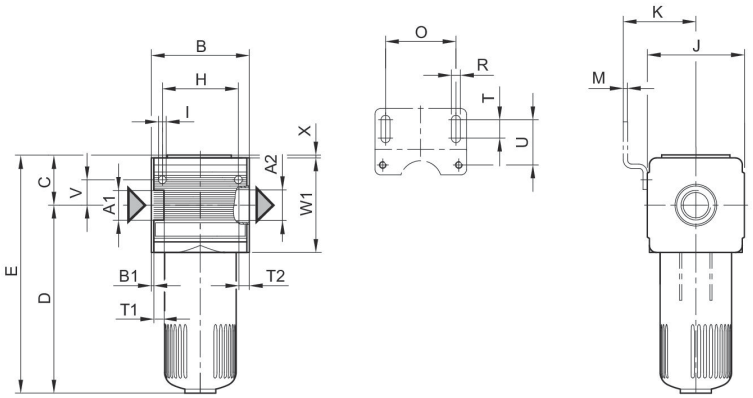
p2 = secondary pressure qn = nominal flow

Active carbon filter, Series NL2-FLA

Mounting orientation: vertical
Filter element: exchangeable
: Can be assembled into blocks
Filter reservoir volume: 10 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 1/4	380	Metal reser-voir without window	Active carbon	R412010792

Dimensions



A1 = input A2 = output

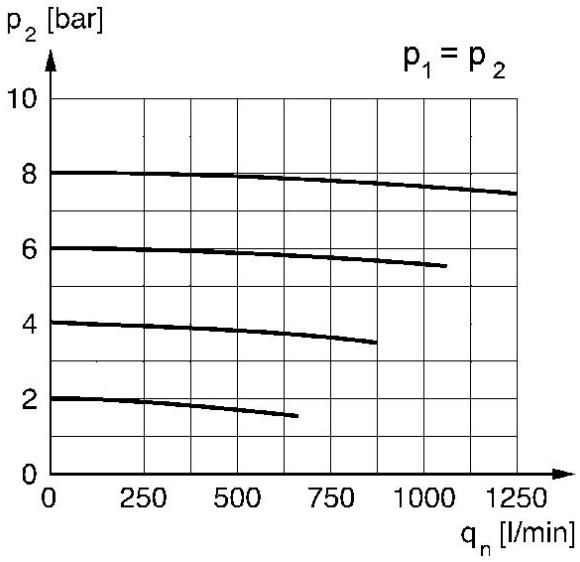
Dimensions in mm

Part No.	A1	A2	B	B1	C	D	E	H	I
R412010792	G 1/4	G 1/4	48	1.5	27.5	109	136.5	36	4.4

Part No.	J	K	M	O	R	T	T1	T2	U
R412010792	47	43.5	3	38	5.4	8	9.5	9.5	27.5

Part No.	V	W1	X
R412010792	12.3	52	1.5

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



p2 = secondary pressure qn = nominal flow

Standard oil-mist lubricator, Series NL2-LBS

Mounting orientation: vertical
: Can be assembled into blocks
Flow: 1800 l/min
Lubricator reservoir volume: 50 cm³
Type of filling: Manual oil filling
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

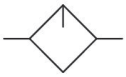
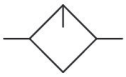
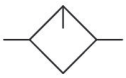
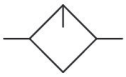
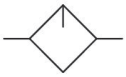
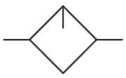
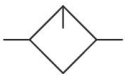
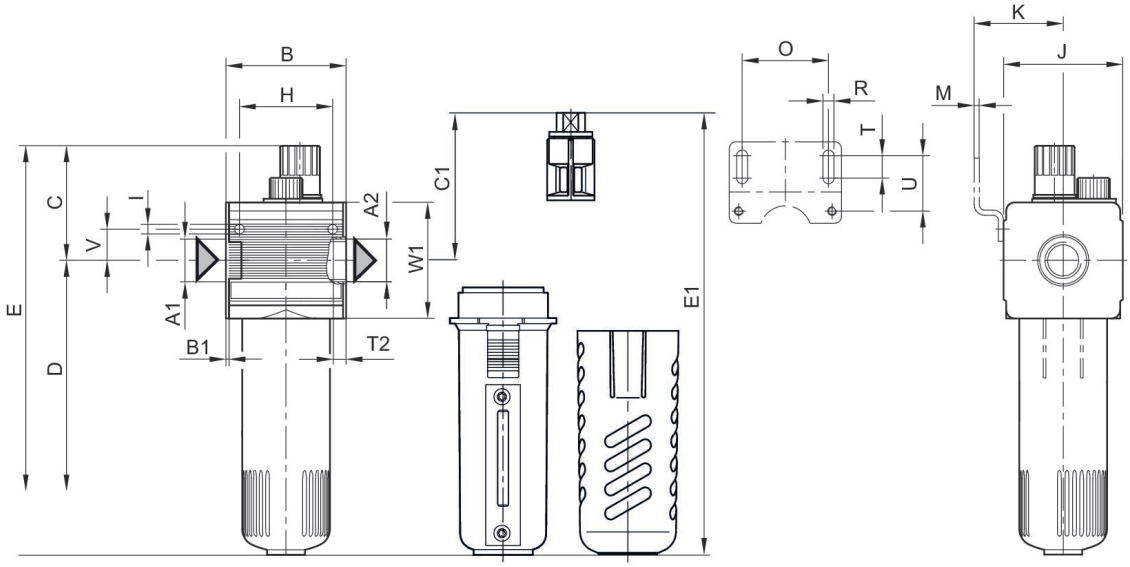
	Port	Nominal flow [l/min]	Reservoir	Lubricator reservoir volume [cm³]	Electrical level indicator	Fig.	Part No.
	G 1/4	1800	reservoir, PA, without protective guard	50	with internal query	Fig. 2	0821301408
	G 1/4	1800	reservoir, polycarbonate, without protective guard	50		Fig. 1	0821301400
	G 1/4	1800	reservoir, polycarbonate, with metal protective guard	50		Fig. 1	0821301401
	G 1/4	1800	reservoir, metal, with inspection glass	50		Fig. 1	0821301402
	G 3/8	1800	reservoir, polycarbonate, without protective guard	50		Fig. 1	0821301440
	G 3/8	1800	reservoir, polycarbonate, with metal protective guard	50		Fig. 1	0821301441
	G 3/8	1800	reservoir, metal, with inspection glass	50		Fig. 1	0821301442

Fig. 1



A1 = input A2 = output

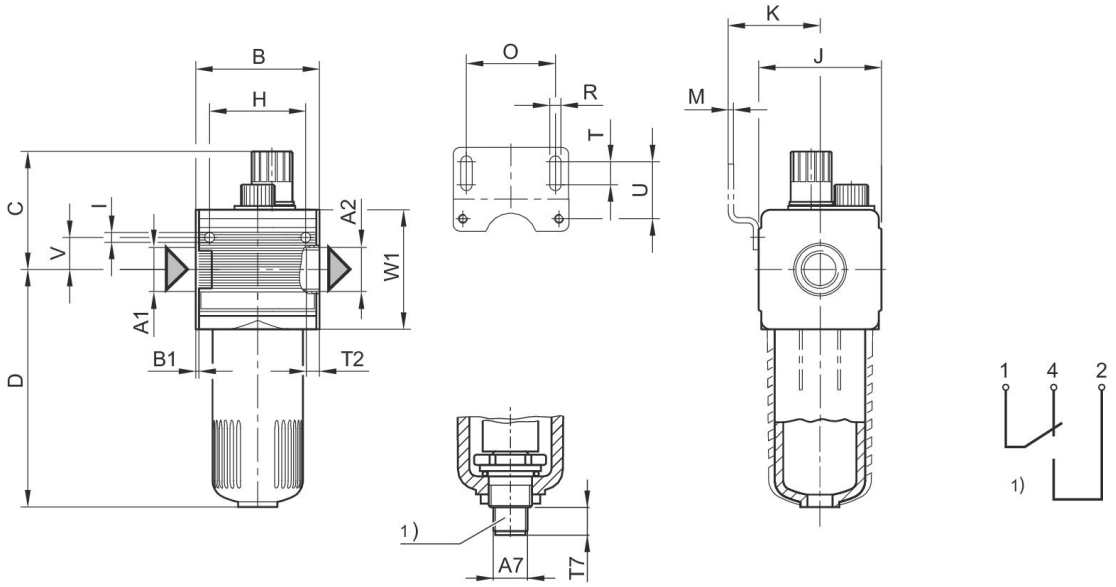
Dimensions in mm

Part No.	A1	A2	B	B1	C	C1	D	E	E1
0821301400	G 1/4	G 1/4	48	1.5	58	-	109	167	-
0821301401	G 1/4	G 1/4	48	1.5	58	-	109	167	-
0821301402	G 1/4	G 1/4	48	1.5	73.5	73,5	109	182	182
0821301440	G 3/8	G 3/8	48	1.5	58	-	109	167	-
0821301441	G 3/8	G 3/8	48	1.5	58	-	109	167	-
0821301442	G 3/8	G 3/8	48	1.5	73.5	73,5	109	182	182

Part No.	H	I	J	K	M	O	R	T	T2
0821301400	36	4.4	47	43.5	3	38	5.4	8	9.5
0821301401	36	4.4	47	43.5	3	38	5.4	8	9.5
0821301402	36	4.4	47	43.5	3	38	5.4	8	9.5
0821301440	36	4.4	47	43.5	3	38	5.4	8	6
0821301441	36	4.4	47	43.5	3	38	5.4	8	6
0821301442	36	4.4	47	43.5	3	38	5.4	8	6

Part No.	U	V	W1
0821301400	27.5	12.3	52
0821301401	27.5	12.3	52
0821301402	27.5	12.3	52
0821301440	27.5	12.3	52
0821301441	27.5	12.3	52
0821301442	27.5	12.3	52

Fig. 2



A1 = input A2 = output
1) electrical level indicator – connection: 4-pin, M12x1 – contact load: 50 V AC/0.5 A/5 W – type: 1 change-over contact (make contact/break contact) for min. fluid level
Order valve plug connector (M12x1) separately

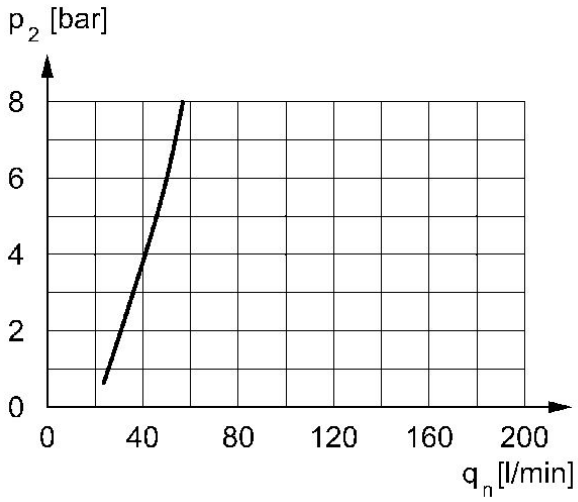
Dimensions in mm

Part No.	A1	A2	A7	B	B1	C	D	H	I
0821301408	G 1/4	G 1/4	M12x1	48	1.5	58	109	36	4.4

Part No.	J	K	M	O	R	T	T2	T7	U
0821301408	47	43.5	3	38	5.4	8	9.5	12	27.5

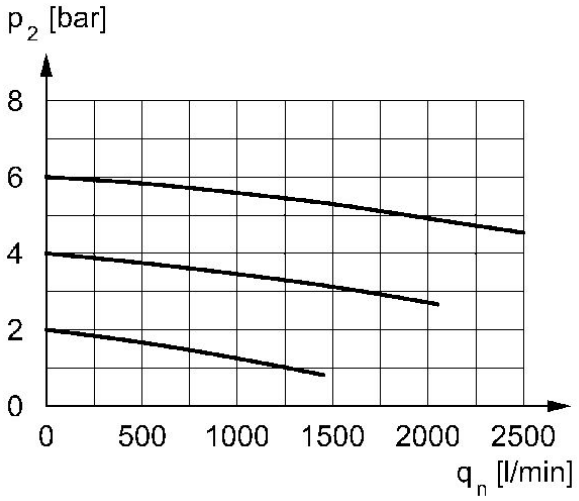
Part No.	V	W1
0821301408	12.3	52

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

Micro oil-mist lubricator, Series NL2-LBM

Mounting orientation: vertical
: Can be assembled into blocks
Flow: 1800 l/min
Type of filling: Manual oil filling
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.5 bar ... 16 bar

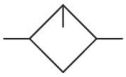
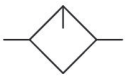
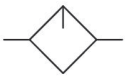
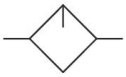
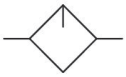
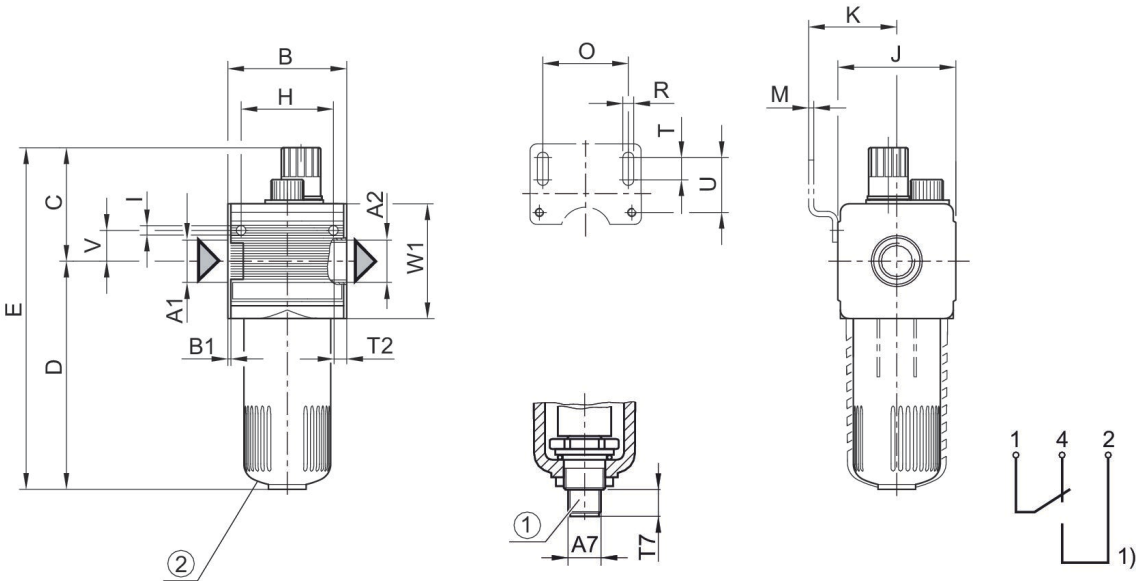
	Port	Nominal flow [l/min]	Reservoir	Lubricator reservoir volume [cm³]	Electrical level indicator	Fig.	Part No.
	G 1/4	1300	reservoir, polycarbonate, without protective guard	50		Fig. 1	0821301411
	G 1/4	1300	reservoir, polycarbonate, with metal protective guard	50		Fig. 1	0821301415
	G 1/4	1300	reservoir, metal, with inspection glass	50		Fig. 2	R412007651
	G 1/4	1300	reservoir, polycarbonate, without protective guard	50	with internal query	Fig. 1	0821301412
	G 1/4	1300	1.0 l metal reservoir with window	1000	with internal query	Fig. 3	0821301413

Fig. 1
PC reservoir



1) electrical level indicator – connection: 4-pin, M12x1 – contact load: 50 V AC/0.5 A/5 W – type: 1 change-over contact (make contact/break contact) for min. fluid level
Order valve plug connector (M12x1) separately
2) PC reservoir

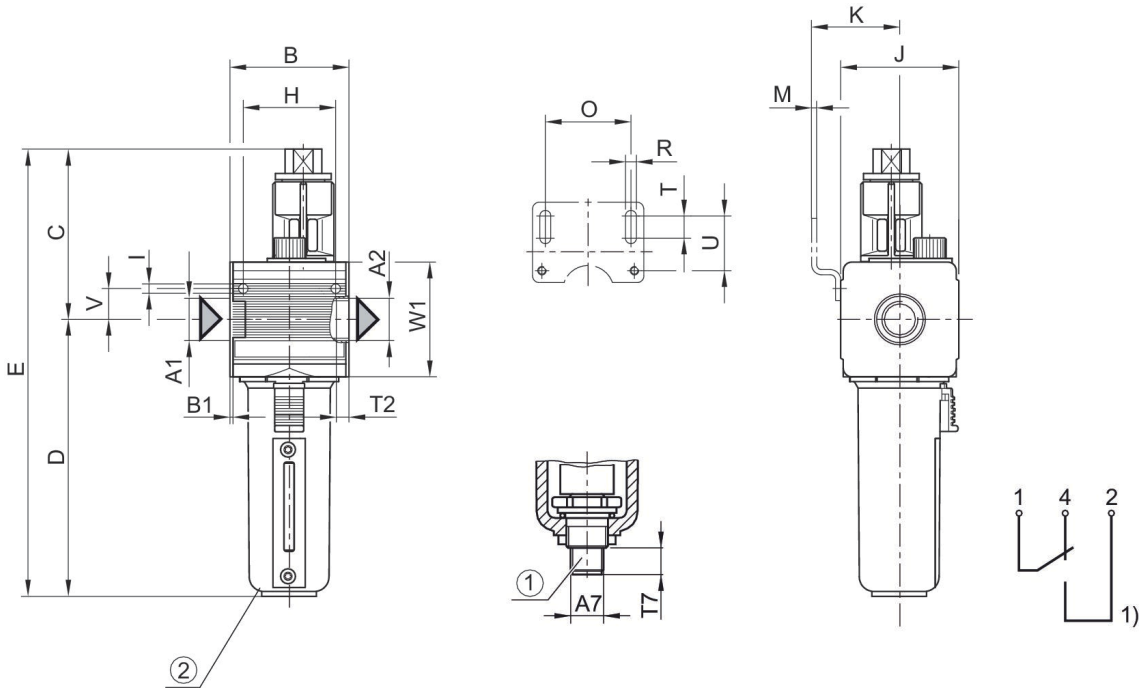
Dimensions in mm

Part No. G 1/4	A1	A2	A7	B	B1	C	D	E	H
0821301411	G 1/4	G 1/4	M12x1	48	1.5	58	109	167	36
0821301415	G 1/4	G 1/4	M12x1	48	1.5	58	109	167	36
0821301412	G 1/4	G 1/4	M12x1	48	1.5	58	109	167	36
R412007652	G 1/4	G 1/4	M12x1	48	1.5	58	109	167	36

Part No. G 1/4	I	J	K	M	O	R	T	T2	T7
0821301411	4.4	47	43.5	3	38	5.4	8	9.5	12
0821301415	4.4	47	43.5	3	38	5.4	8	9.5	12
0821301412	4.4	47	43.5	3	38	5.4	8	9.5	12
R412007652	4.4	47	43.5	3	38	5.4	8	9.5	12

Part No. G 1/4	U	V	W1
0821301411	27.5	12.3	52
0821301415	27.5	12.3	52
0821301412	27.5	12.3	52
R412007652	27.5	12.3	52

Fig. 2
Metal reservoir with level indicator



1) electrical level indicator – connection: 4-pin, M12x1 – contact load: 50 V AC/0.5 A/5 W – type: 1 change-over contact (make contact/break contact) for min. fluid level
Order valve plug connector (M12x1) separately
2) Metal reservoir with level indicator

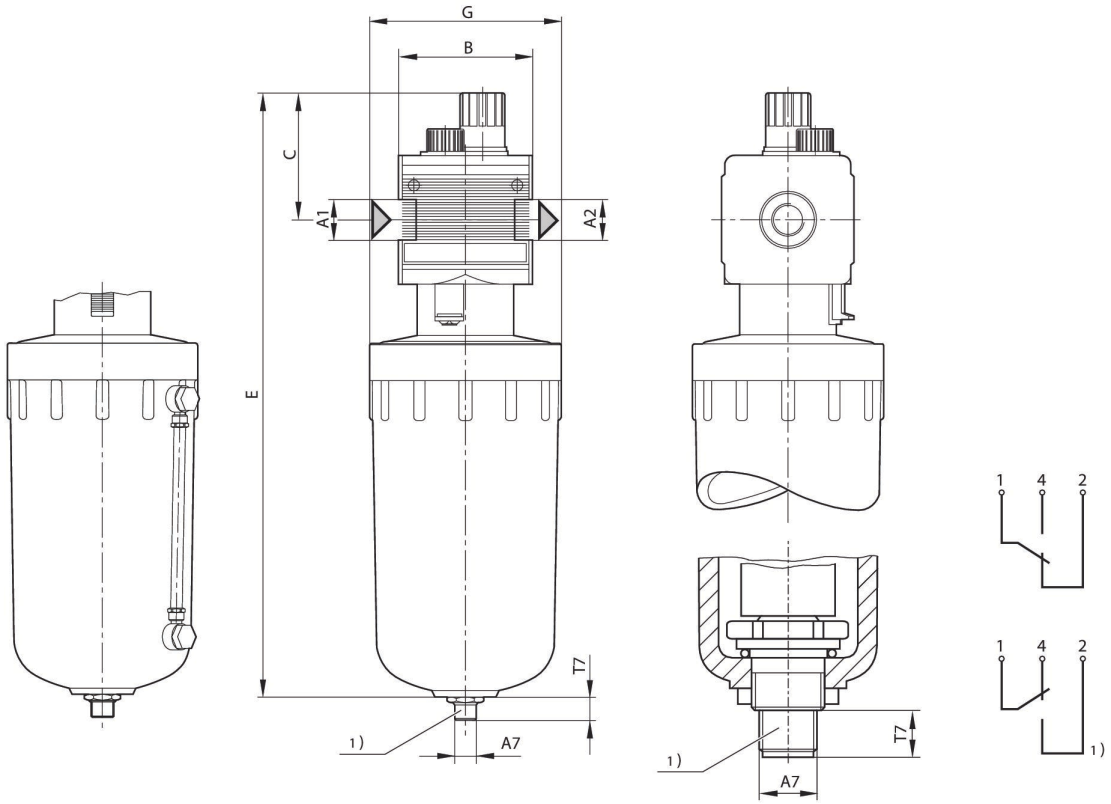
Dimensions in mm

Part No.	A2	A7	B	B1	C	D	E	H	I
R412007651	G 1/4	M12x1	48	1.5	58	109	182	36	4.4

Part No.	J	K	M	O	R	T	T2	T7	U
R412007651	47	43.5	3	38	5.4	8	9.5	12	27.5

Part No.	V	W1
R412007651	12.3	52

Fig. 3
Dimensions



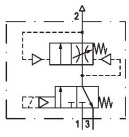
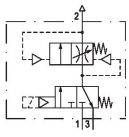
A1 = input A2 = output
1) electrical level indicator – connection: 4-pin, M12x1 – contact load: 50 V AC/0.5 A/5 W – type: 1 change-over contact (make contact/break contact) for min. fluid level
Order valve plug connector (M12x1) separately

Dimensions in mm

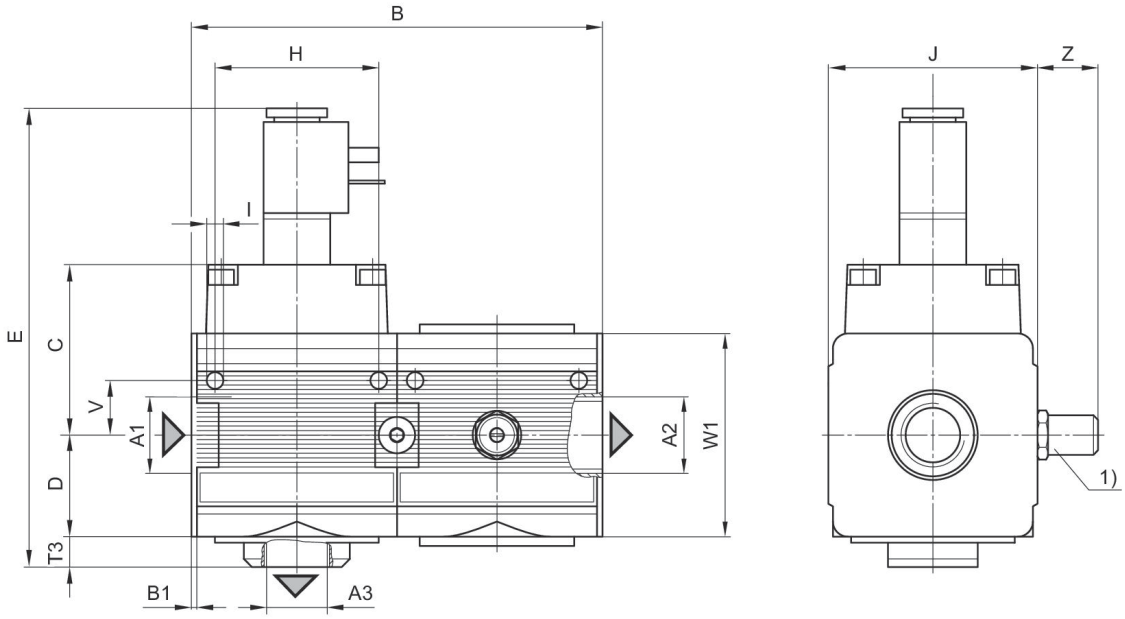
Part No.	Lubricator reser-voir volume	A2	A7	B ±5	C ±5	E	G ±5	T7
0821301413		G 1/4	M12x1	48	58	299	Ø 100	12 ±2,5
0821301414		G 1/4	M12x1	48	58	399	Ø 100	12 ±2,5

Filling unit, electrically operated, Series NL2-SSU

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

	Port	Nominal flow [l/min]	Electrical connection	Operational voltage DC	Part No.
	G 1/4	900	ISO 6952, form B	24 V	0821300941
	G 1/4	900	ISO 6952, form B	24 V	0821300946

Dimensions



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

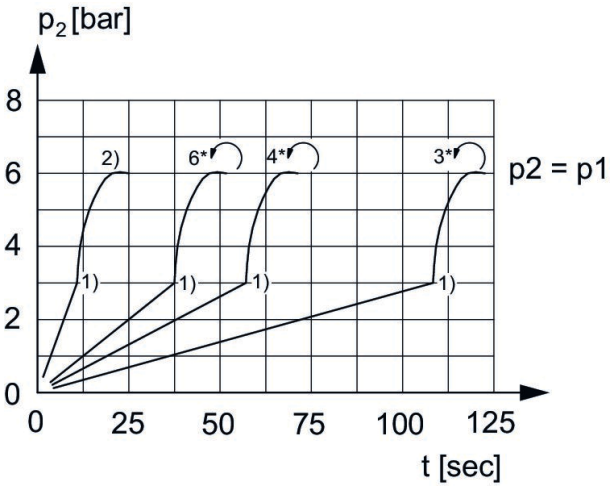
Dimensions in mm

Part No.	A1	A2	A3	B	B1	C	D	E	H
0821300941	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36
0821300943	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36
0821300944	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36
0821300946	G 1/4	G 1/4	G 1/4	93	1.5	44	26	131	36

Part No.	I	J	K	M	O	R	T	T3	V
0821300941	4.4	47	43.5	3	38	5.4	8	10	12.3
0821300943	4.4	47	43.5	3	38	5.4	8	10	12.3
0821300944	4.4	47	43.5	3	38	5.4	8	10	12.3
0821300946	4.4	47	43.5	3	38	5.4	8	10	12.3

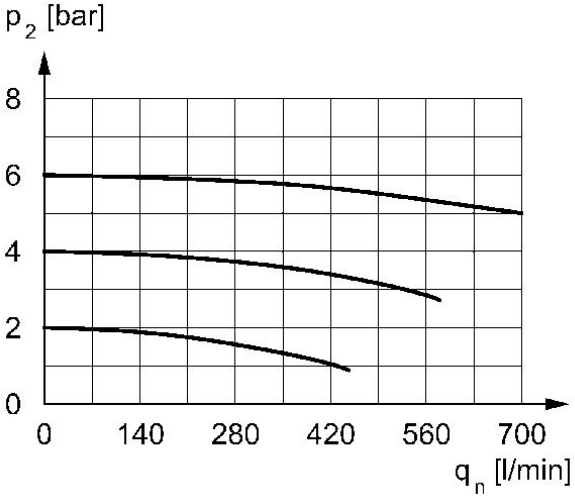
Part No.	Z	U	V	W1
0821300941	–	27.5	12.3	52
0821300943	–	27.5	12.3	52
0821300944	–	27.5	12.3	52
0821300946	20	27.5	12.3	52

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

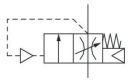
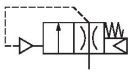
Flow rate characteristic, p2 = 0,05 - 7 bar



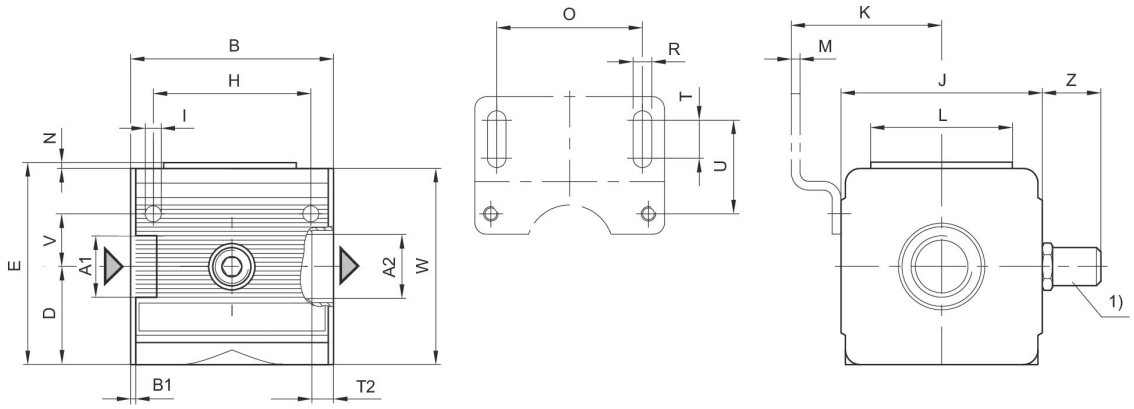
p2 = Secondary pressure
qn = Nominal flow

Filling valve, pneumatically operated, Series NL2-SSV

Flow: 1000 l/min
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	1000	0821300926
	G 1/4	1000	0821300925

Dimensions



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

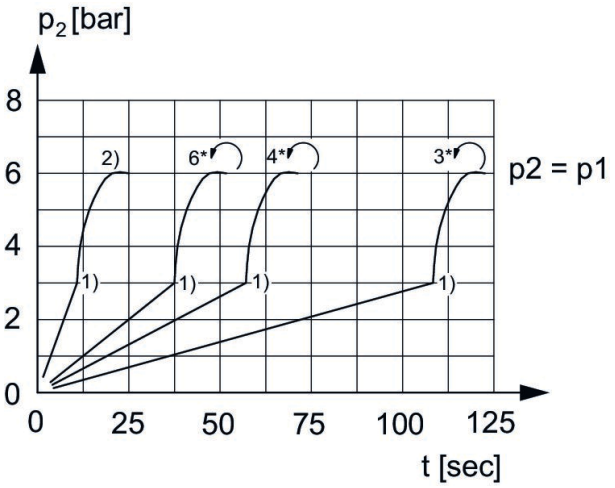
Dimensions in mm

Part No.	A1	A2	B	B1	D	E	H	I	J
0821300925	G 1/4	G 1/4	48	1.5	28	56	36	4.4	47
0821300926	G 1/4	G 1/4	48	1.5	28	56	36	4.4	47

Part No.	K	L	M	N	O	R	T	T1	T2
0821300925	43.5	33.5	3	2	38	5.4	8	1.5	9.5
0821300926	43.5	33.5	3	2	38	5.4	8	1.5	9.5

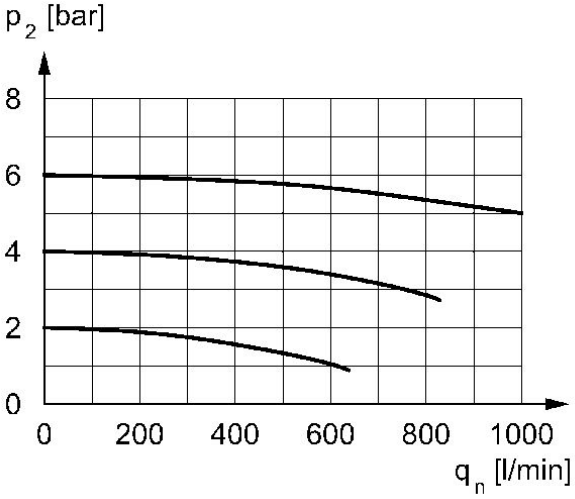
Part No.	U	V	W	Z
0821300925	27.5	12.3	52	–
0821300926	27.5	12.3	52	20

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

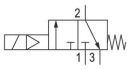
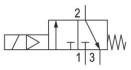
Flow rate characteristic, p2 = 0,05 - 7 bar



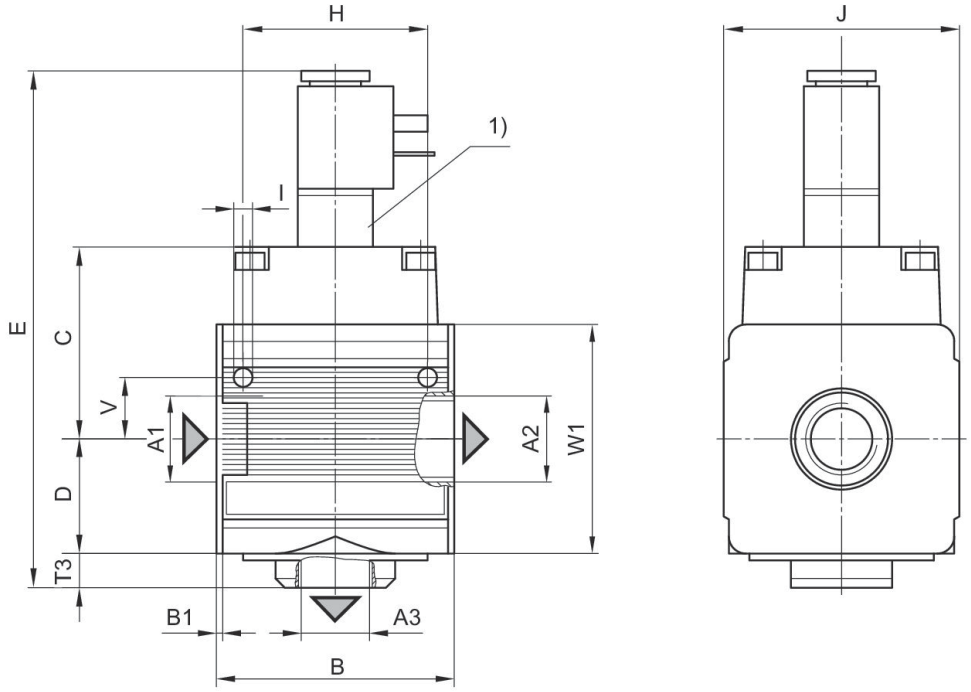
p2 = secondary pressure qn = nominal flow

3/2-directional valve, electrically operated, Series NL2-SOV

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]	Operational voltage	Electrical connection	Operational voltage DC	Part No.
	G 1/4	1100		ISO 6952, form B	24 V	0821300922
	G 1/4	1100	230 V AC	ISO 6952, form B		0821300923

Dimensions



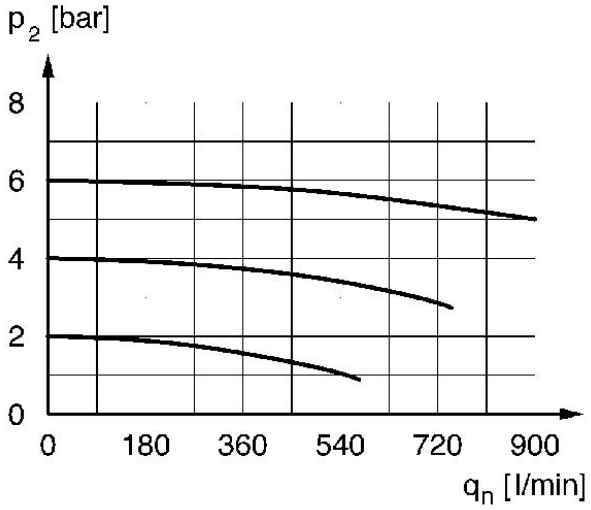
A1 = input A2 = output A3 = output
1) electrically operated

Dimensions in mm

Part No.	A1	A2	A3	B	B1	C	D	E	H
0821300922	G 1/4	G 1/4	G 1/4	48	1.5	44	26	131	36
0821300923	G 1/4	G 1/4	G 1/4	48	1.5	44	26	131	36

Part No.	I	J	T3	V	W1
0821300922	4.4	47	10	12.3	52
0821300923	4.4	47	10	12.3	52

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



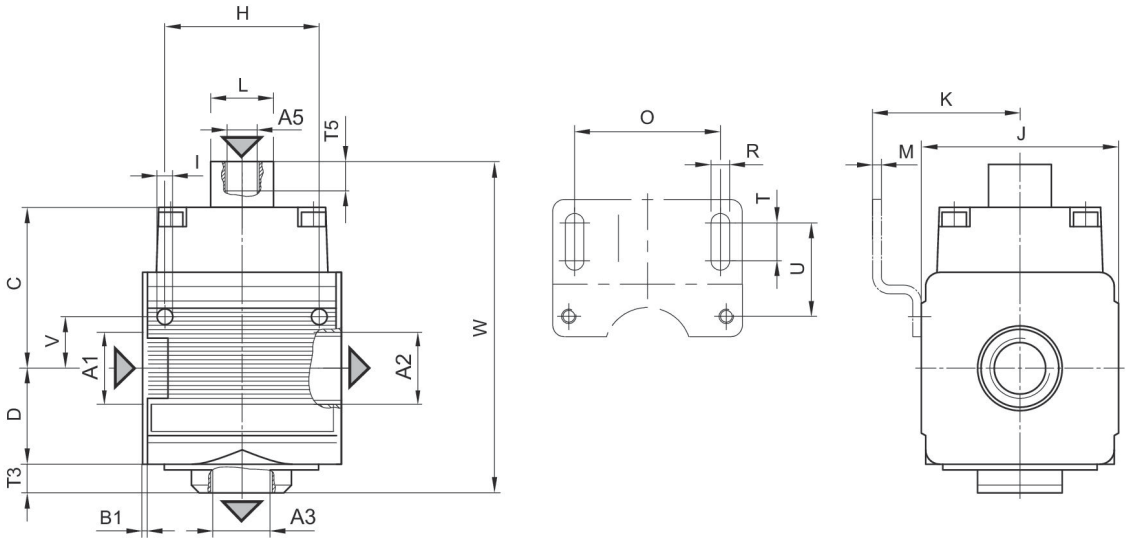
p2 = secondary pressure qn = nominal flow

3/2-directional valve, pneumatically operated, Series NL2-SOV

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

Nominal flow [l/min]	Part No.
1100	R474001577

Dimensions



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

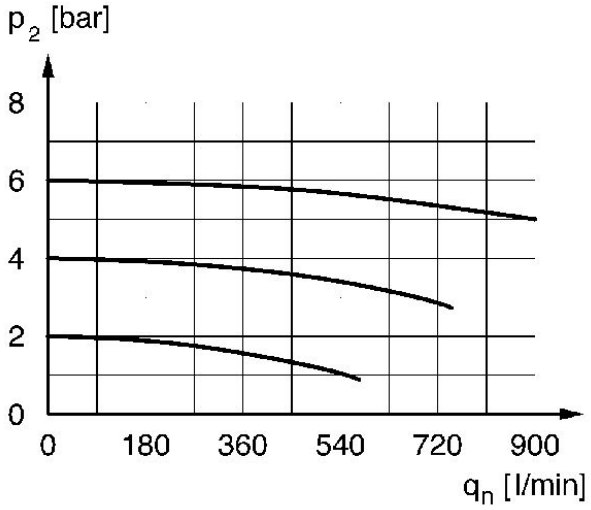
Dimensions in mm

Part No.	A1	A2	A3	A5	B1	C	D	F	H
R474001577	G 1/4	G 1/4	G 1/4	G 1/8	1.5	44	26	10	36

Part No.	I	J	K	M	O	R	T	T5	U
R474001577	4.4	47	43.5	3	38	5.4	8	13	27.5

Part No.	V	W
R474001577	12.3	96

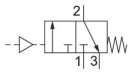
Flow rate characteristic, p2 = 0,05 - 7 bar



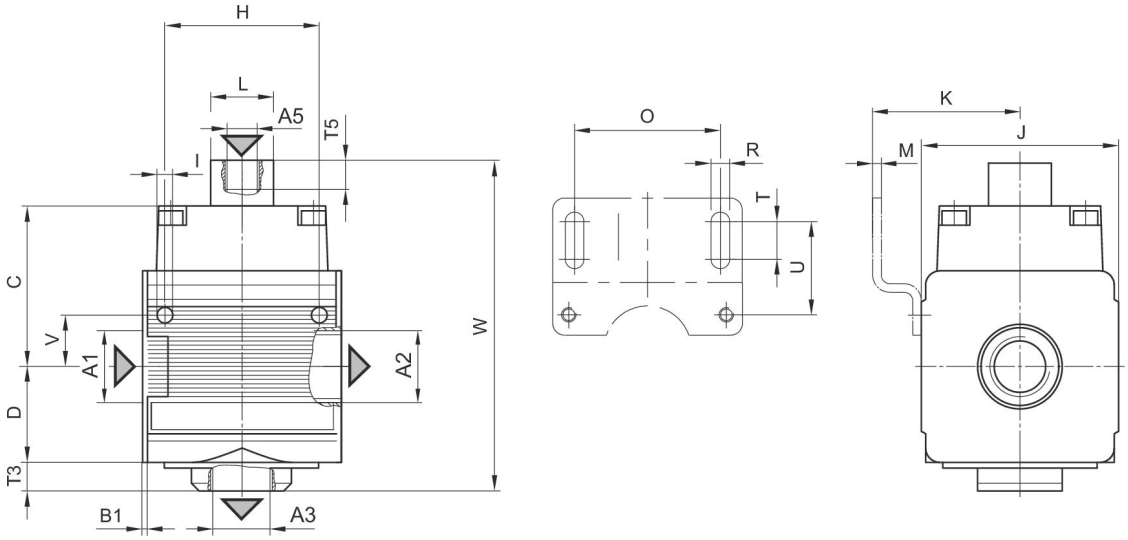
p2 = Secondary pressure
qn = Nominal flow

3/2-directional valve, pneumatically operated, Series NL2-SOV

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

	Port	Nominal flow [l/min]	Part No.
	G 1/4	1100	0821300921

Dimensions



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

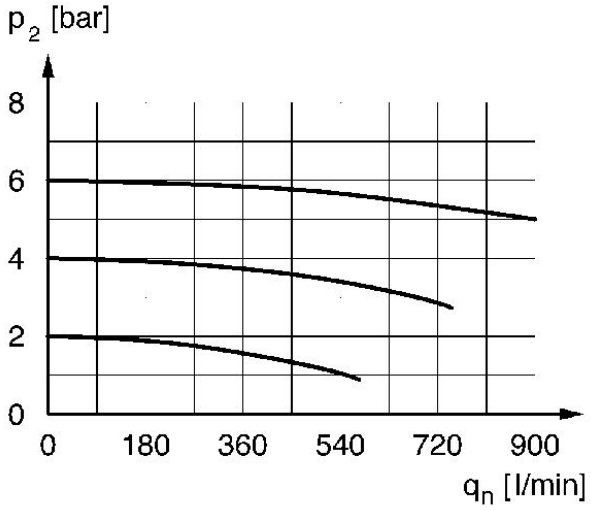
Dimensions in mm

Part No.	A1	A2	A3	A5	B1	C	D	F	H
R474001577	G 1/4	G 1/4	G 1/4	G 1/8	1.5	44	26	10	36

Part No.	I	J	K	M	O	R	T	T5	U
R474001577	4.4	47	43.5	3	38	5.4	8	13	27.5

Part No.	V	W
R474001577	12.3	96

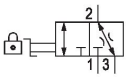
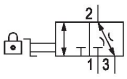
Flow rate characteristic, p2 = 0,05 - 7 bar



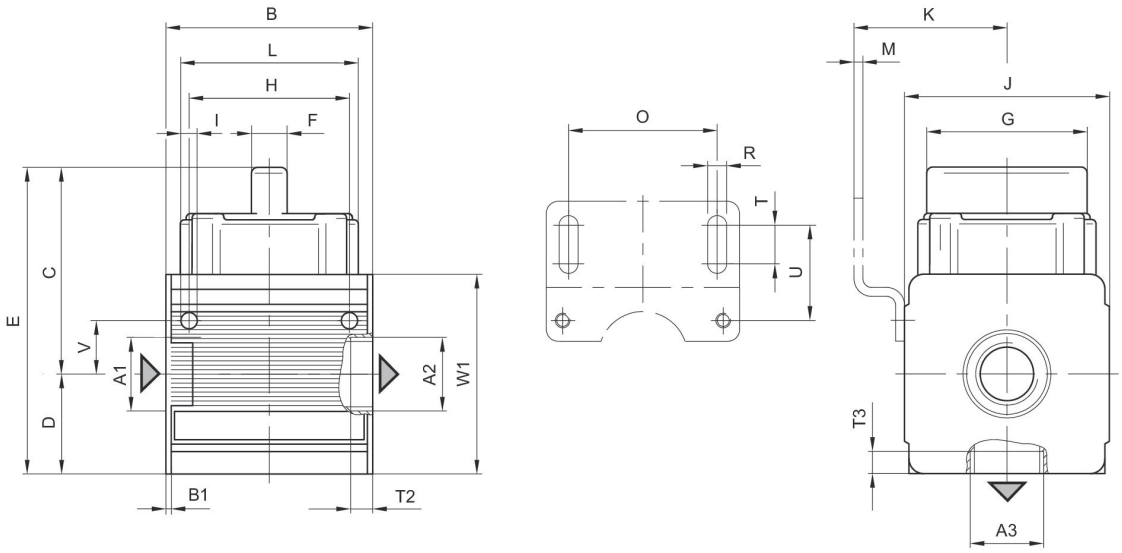
p2 = Secondary pressure
qn = Nominal flow

3/2-shut-off valve, mechanically operated, Series NL2-BAV

: lockable
: for padlocks
Flow: 3000 l/min
Activation: Mechanical
Qn 1 > 2: 2800 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 1/4	3000	0821300901
	G 3/8	3000	0821300903

Dimensions



A1 = input
A2 = output
A3 = ventilation port

Dimensions in mm

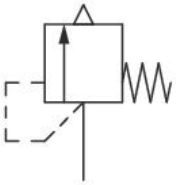
Part No.	A1	A2	A3	B	B1	C	D	E	F
0821300901	G 1/4	G 1/4	G 1/4	48	1.5	54.5	26	80.5	8
0821300903	G 3/8	G 3/8	G 1/4	48	1.5	54.5	26	80.5	8

Part No.	G	H	I	J	K	L	M	O	R
0821300901	33.5	36	4.4	47	43	40.5	3	38	5.4
0821300903	33.5	36	4.4	47	43	40.5	3	38	5.4

Part No.	T	T2	T3	U	V	W1
0821300901	8	8	8	27.5	12.3	52
0821300903	8	7.5	8	27.5	12.3	52

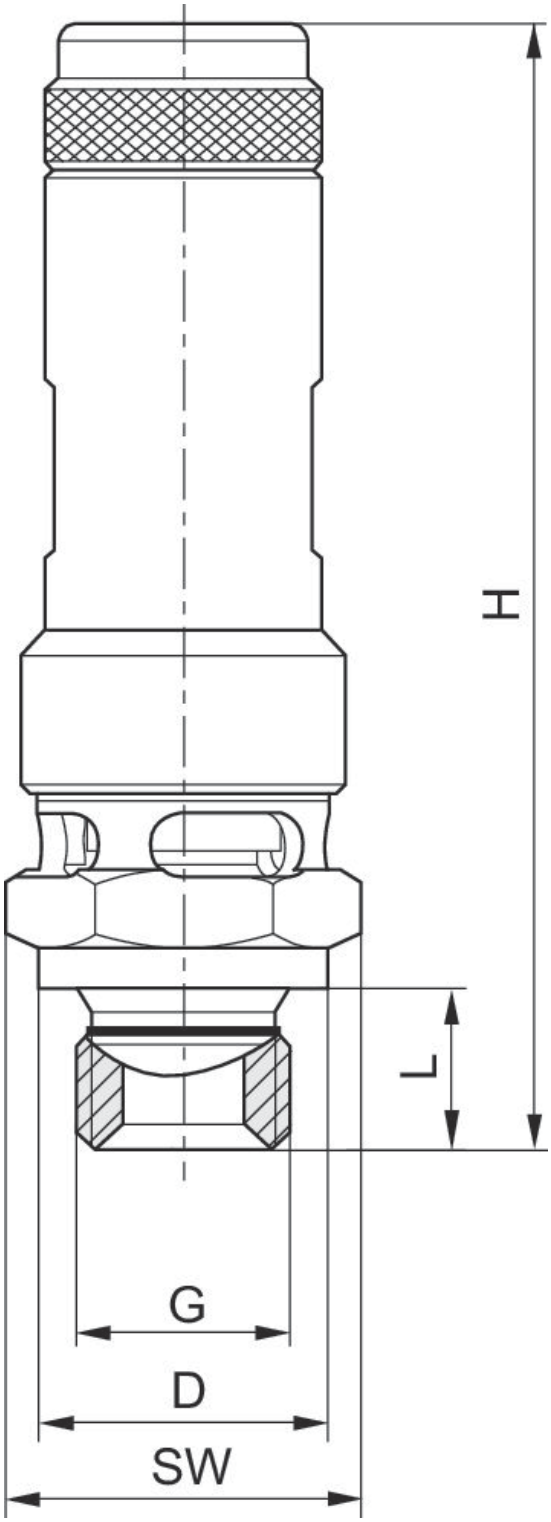
Series RV1

Compressed air connection: External thread
Certificates: CE declaration of conformity
Ambient temperature min./max.: -20 °C ... 100 °C
Working pressure min./max.: 0 bar ... 20 bar



Compressed air connection 1	Nominal flow Qn 1 to 2 [l/min]	Opening pressure of valve [bar]	Housing material	Part No.
G 1/4	676	0.8	Brass	R412007521
G 1/4	996	1.5	Brass	R412007522
G 1/4	1219	2	Brass	R412007523
G 1/4	1872	3.5	Brass	R412007524
G 1/4	2084	4	Brass	R412007525
G 1/4	2424	4.8	Brass	R412007526
G 1/4	2933	6	Brass	R412007527
G 1/4	3783	8	Brass	R412007528
G 1/4	4632	10	Brass	R412007529
G 1/4	5056	11	Brass	R412007530
G 1/4	6755	15	Brass	R412007531
G 1/4	7179	16	Brass	R412007532

Dimensions



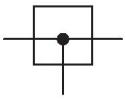
G = connection 1

Part No.	Port G	Ø D	H	L	SW	T [Nm]	NW
R412007521	G 1/4	18	69	10	19	30	8
R412007522	G 1/4	18	69	10	19	30	8
R412007523	G 1/4	18	69	10	19	30	8
R412007524	G 1/4	18	69	10	19	30	8
R412007525	G 1/4	18	69	10	19	30	8
R412007526	G 1/4	18	69	10	19	30	8
R412007527	G 1/4	18	69	10	19	30	8
R412007528	G 1/4	18	69	10	19	30	8
R412007529	G 1/4	18	69	10	19	30	8
R412007530	G 1/4	18	69	10	19	30	8
R412007531	G 1/4	18	69	10	19	30	8
R412007532	G 1/4	18	69	10	19	30	8
R412007533	G 3/8	22	75	10	24	40	10
R412007534	G 3/8	22	75	10	24	40	10
R412007535	G 3/8	22	75	10	24	40	10
R412007721	G 3/8	22	75	10	24	40	10
R412007536	G 3/8	22	75	10	24	40	10
R412007537	G 3/8	22	75	10	24	40	10
R412007538	G 3/8	22	75	10	24	40	10
R412007539	G 3/8	22	88	10	24	40	10
R412007540	G 3/8	22	88	10	24	40	10
R412007541	G 3/8	22	88	10	24	40	10
R412007542	G 1/2	26	78	12	27	50	15
R412007720	G 1/2	26	78	12	27	50	15
R412007690	G 1/2	26	78	12	27	50	15
R412007691	G 1/2	26	78	12	27	50	15
R412007692	G 1/2	26	78	12	27	50	15
R412007699	G 1/2	26	78	12	27	50	15
R412007696	G 1/2	26	78	12	27	50	15
R412007702	G 1/2	26	78	12	27	50	15
R412007698	G 1/2	26	78	12	27	50	15
R412007697	G 1/2	26	77.5	12	27	50	15
R412007693	G 1/2	26	91	12	27	50	15
R412007694	G 1/2	26	91	12	27	50	15
R412007700	G 1/2	26	91	12	27	50	15
R412007701	G 1/2	26	91	12	27	50	15
R412007695	G 1/2	26	91	12	27	50	15
R412007703	G 1/2	26	91	12	27	50	15
R412007543	G 1/2	26	91	12	27	50	15
R412007544	G 3/4	32	106	12	30	60	20
R412007684	G 3/4	32	106	12	30	60	20
R412007545	G 3/4	32	106	12	30	60	20
R412007546	G 3/4	32	106	12	30	60	20
R412007547	G 3/4	32	106	12	30	60	20
R412007548	G 3/4	32	106	12	30	60	20
R412007549	G 3/4	32	116	12	30	60	20
R412007550	G 3/4	32	116	12	30	60	20
R412007551	G 3/4	32	116	12	30	60	20
R412007552	G 3/4	32	116	12	30	60	20

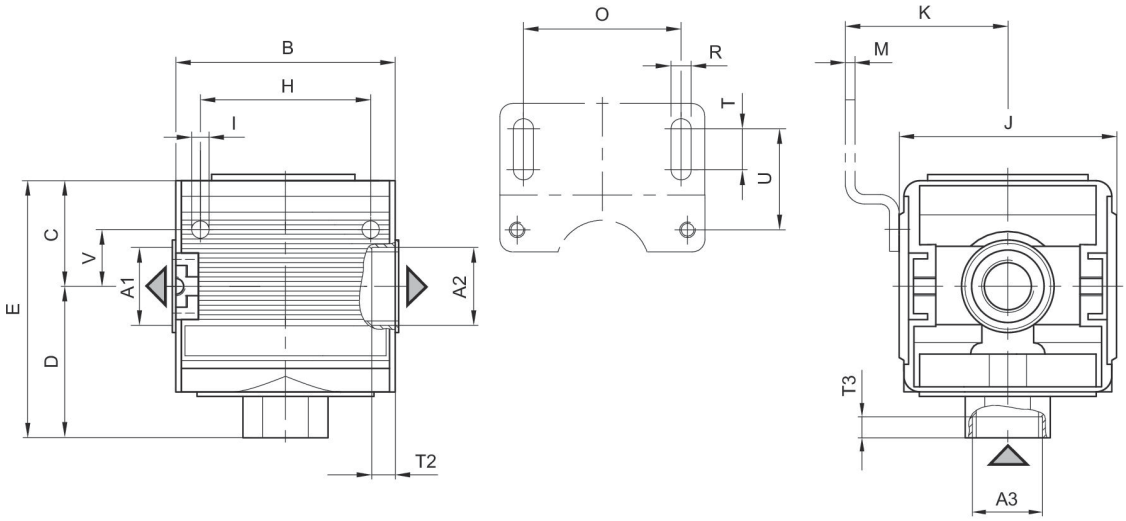
NW = nominal width

Distributor, Series NL2-DIC

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	0821300264

Dimensions



A1 = output A2 = output A3 = input

Dimensions in mm

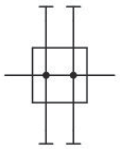
Part No.	A1	A2	A3	B	C	D	E	H	I
0821300264	G 1/4	G 1/4	G 1/4	45	27	35.5	62.5	36	4.4

Part No.	J	K	M	O	R	T	T2	T3	U
0821300264	47	43.5	3	38	5.4	8	8	8.5	27.5

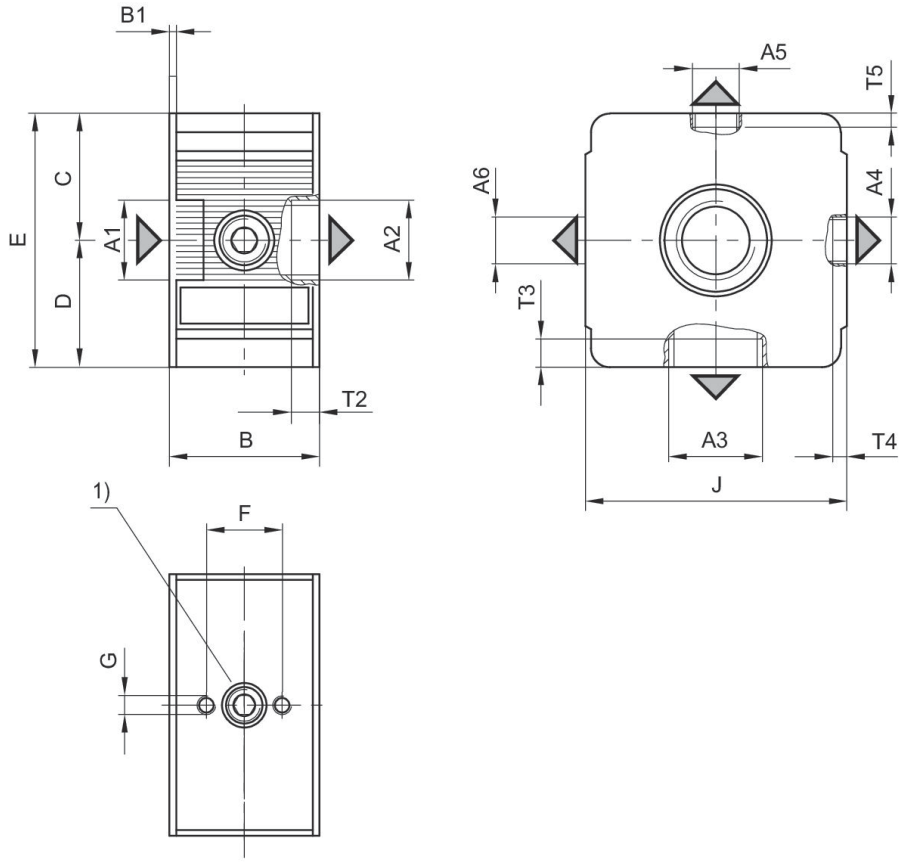
Part No.	V
0821300264	12.3

Distributor, Series NL2-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	0821300920

Dimensions



A1 = input A2 = output A3 = output A4 = output A5 = output A6 = output
1) hole pattern for mechanical vacuum/pressure switch

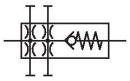
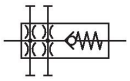
Dimensions in mm

Part No.	A1	A2	A3	A4	A5	A6	B	B1	C
0821300920	G 1/4	G 1/4	G 1/4	G 1/4	G 1/8	G 1/4	35	1.5	26

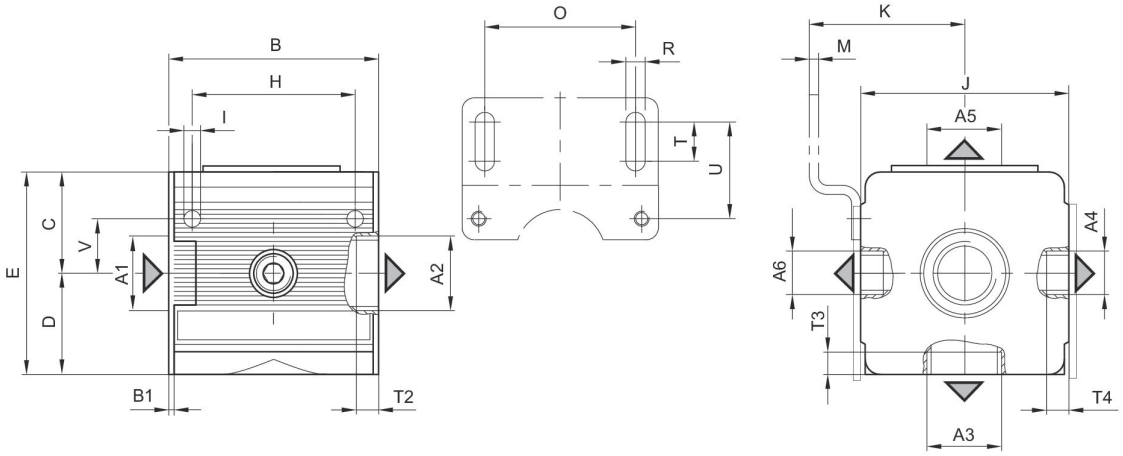
Part No.	D	E	F	G	J	T2	T3	T4	T5
0821300920	26	52	20	M5	47	12	8.5	7	8

Distributor, Series NL2-DIN

Mounting orientation: Any
: Can be assembled into blocks
Flow: 700 l/min
Qn 1 > 2: 700 l/min
Ambient temperature min./max.: -10 °C ... 60 °C
Working pressure min./max.: 0.1 bar ... 16 bar

	Port	Nominal flow [l/min]	Part No.
	G 1/4	700	0821300904
	G 3/8	700	0821300906

Dimensions



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

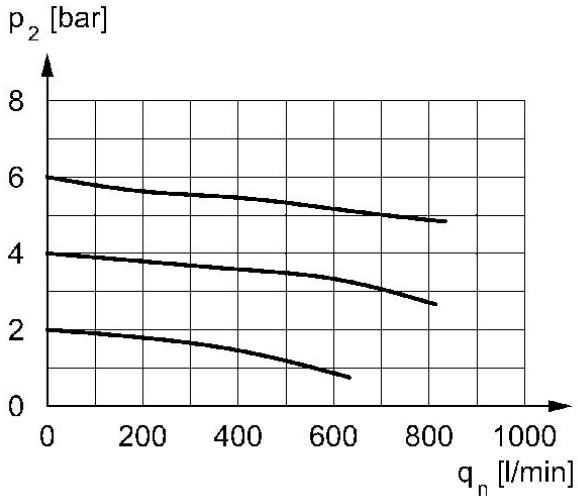
Dimensions in mm

Part No.	A1	A2	A3	A4	A5	A6	B	B1	C
0821300904	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	26
0821300906	G 3/8	G 3/8	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	26

Part No.	D	E	H	I	J	K	M	O	R
0821300904	26	52	36	4.4	47	43.5	3	38	5.4
0821300906	26	52	36	4.4	47	43.5	3	38	5.4

Part No.	T	T2	T3	T4	U	V
0821300904	8	8	7	5.5	27.5	12.3
0821300906	8	7.5	13	9	27.5	12.3

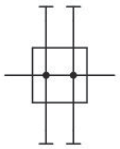
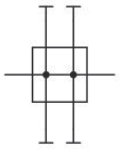
Flow rate characteristic, p2 = 0,05 - 7 bar



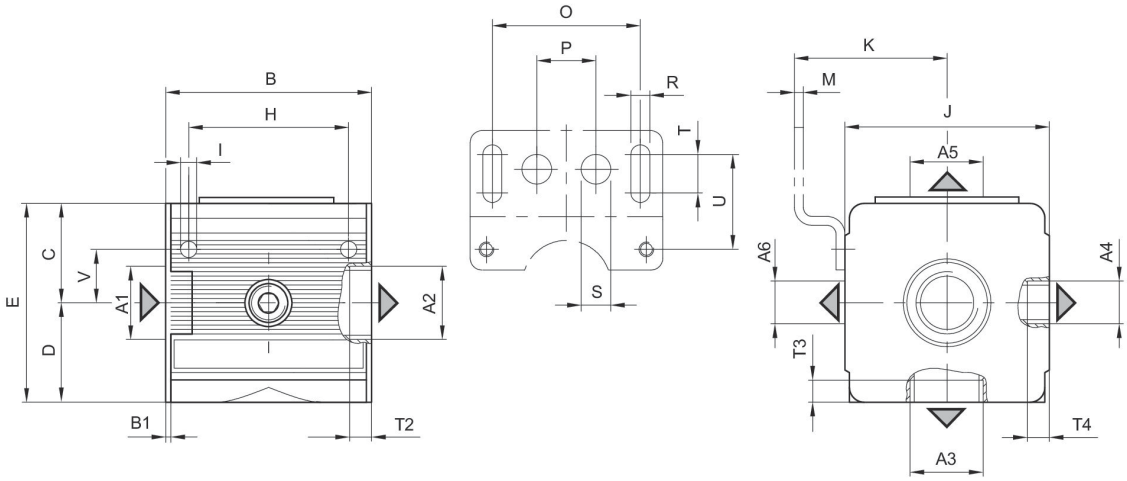
p1 = Working pressure p2 = Secondary pressure qn = Nominal flow

Distributor, Series NL2-DIS

Mounting orientation: Any
: Can be assembled into blocks
Flow: 2500 l/min
Qn 1 > 2: 2500 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	2500	0821300907
	G 3/8	2500	0821300909

Dimensions



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

Dimensions in mm

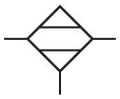
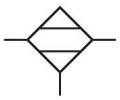
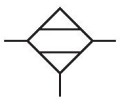
Part No.	A1	A2	A3	A4	A5	A6	B	B1	C
0821300907	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	26
0821300909	G 3/8	G 3/8	G 1/4	G 1/4	G 1/4	G 1/4	48	1.5	26

Part No.	D	E	H	I	J	K	M	O	R
0821300907	26	52	36	4.4	47	43.5	3	38	5.4
0821300909	26	52	36	4.4	47	43.5	3	38	5.4

Part No.	S	T	T2	T3	T4	U	V
0821300907	10	8	8	8	7	27.5	12.3
0821300909	10	8	7.5	8	7	27.5	12.3

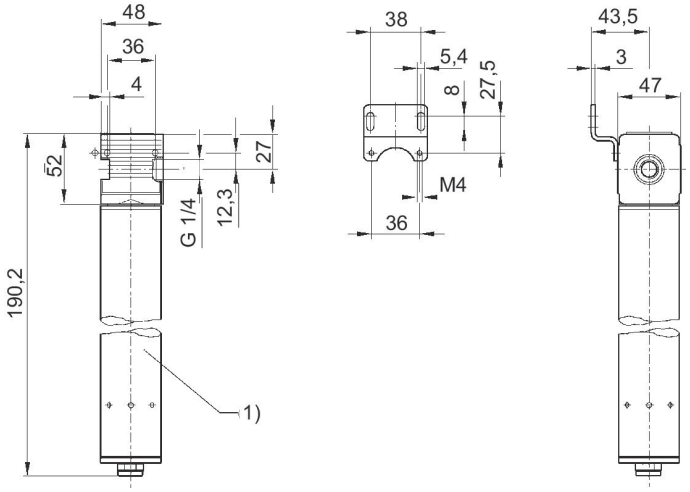
Diaphragm-type dryer, Series NL2-ADD

Mounting orientation: vertical
Filter element: not exchangeable
Ambient temperature min./max.: 2 °C ... 60 °C
Working pressure min./max.: 4 bar ... 12.5 bar

	Port	Nominal flow [l/min]	Material	Part No.
	G 1/4	50	Die cast zinc	R412004170
	G 1/4	100	Die cast zinc	R412004243
	G 1/4	200	Die cast zinc	R412004245

R412004170

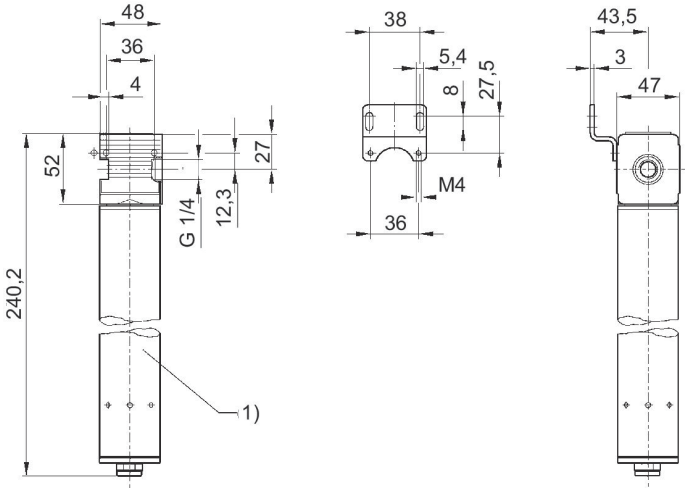
Dimensions in mm



1) Diaphragm-type dryer

R412004243

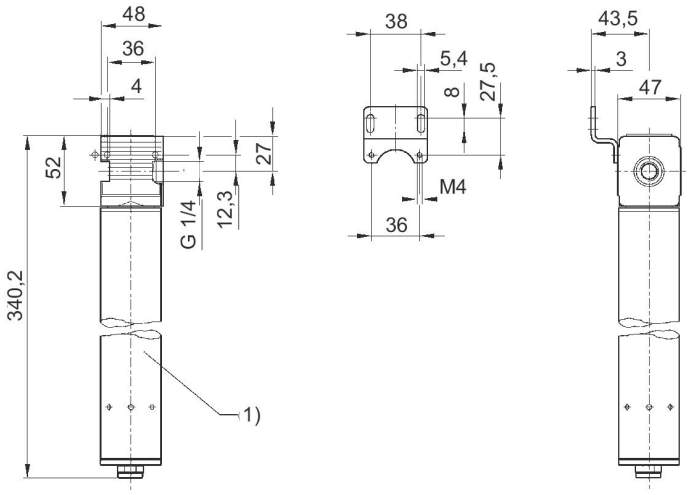
Dimensions in mm



1) Diaphragm-type dryer

R412004245

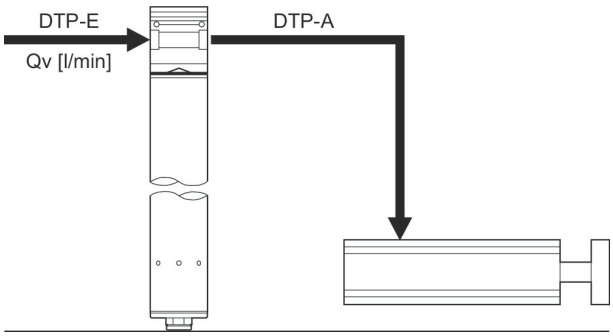
Dimensions in mm



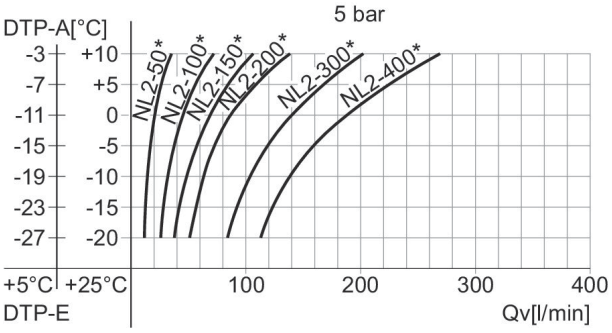
1) Diaphragm-type dryer

Example

Wanted:

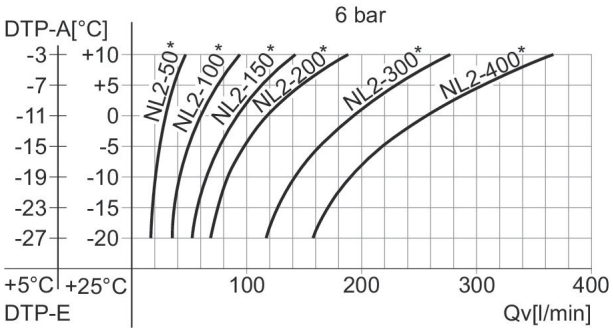


Performance charts



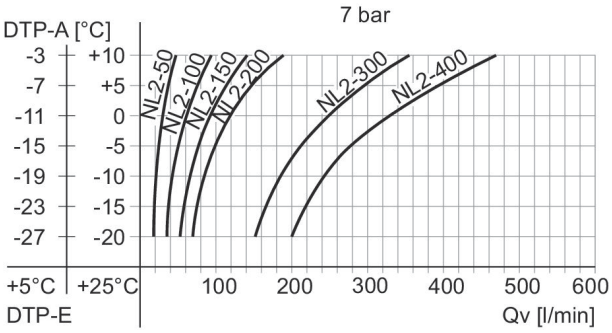
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



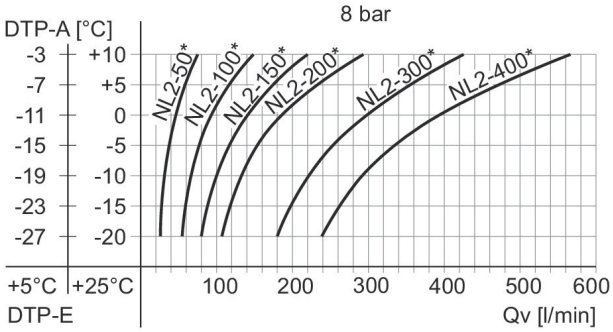
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



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

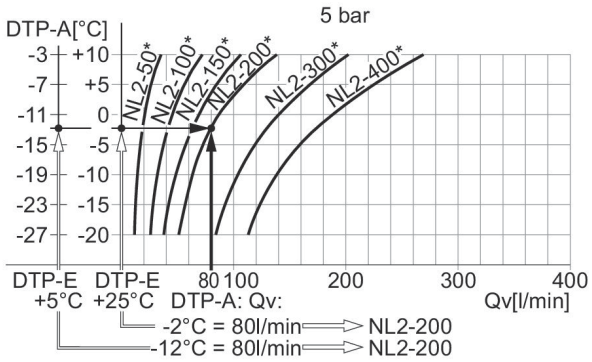
Performance charts



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

Example

Give values:



Result: membrane dryer series NL2-200 (with a Qn of 200 l/min), part no. R412004245
* Nominal flow Qn

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

Condensate drain	Filter reservoir volume [cm³]	Fig.	Version	Part No.
semi-automatic, open without pressure	25	Fig. 1	reservoir, polycarbonate, without protective guard	1827009334
semi-automatic, open without pressure	25	Fig. 2	reservoir, metal, with inspection glass	1827009340
fully automatic, open without pressure	25	Fig. 3	reservoir, polycarbonate, without protective guard	1827009335
fully automatic, open without pressure	25	Fig. 4	reservoir, metal, with inspection glass	1827009341

Fig. 1

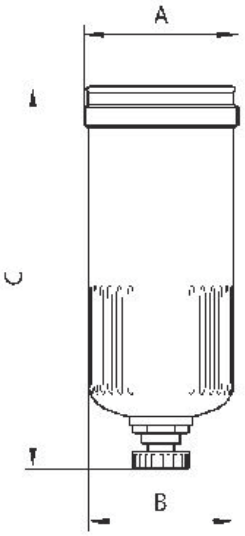


Fig. 2

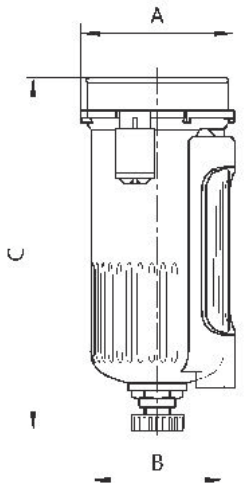


Fig. 3

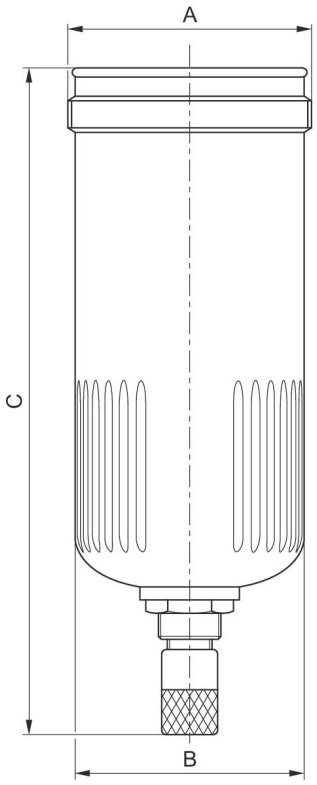
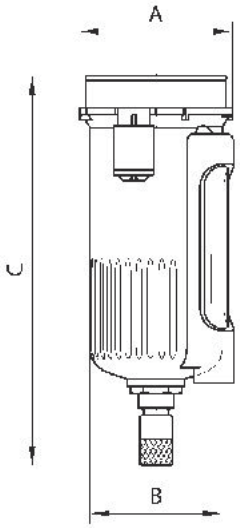


Fig. 4



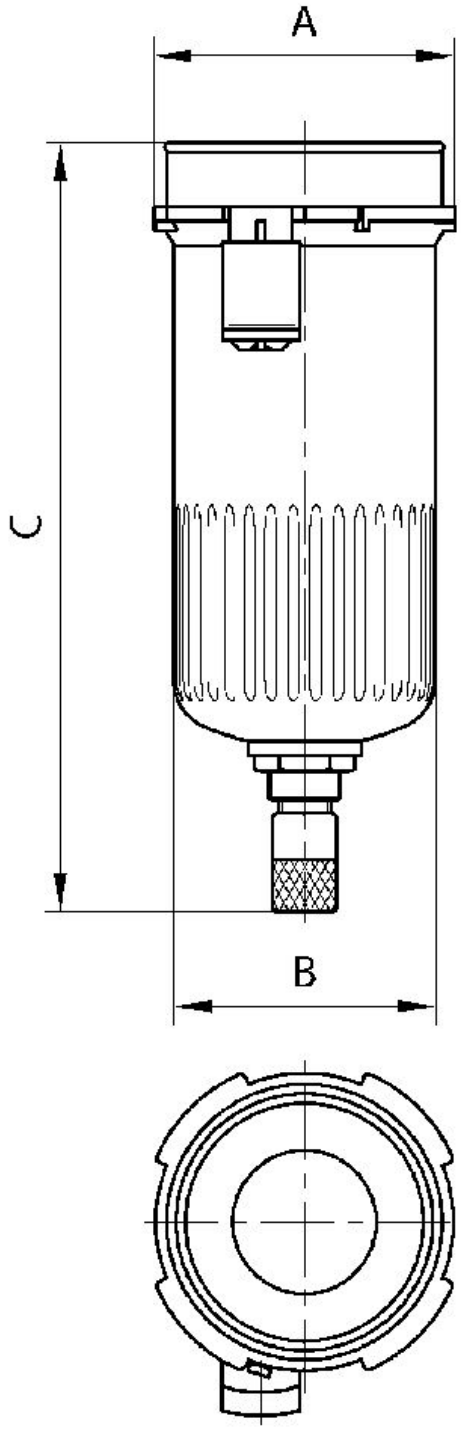
Part No.	A	B	C
1827009334	M36x1,5	33.2	116
1827009335	M36x1,5	33.2	129
1827009340	42.5	33.2	116
1827009341	42.5	33.2	129

Reservoir, Series NL2-CLC

Filter reservoir volume: 25 cm³
Condensate drain: fully automatic, open without pressure
Ambient temperature min./max.: -10 °C ... 50 °C
Medium temperature min./max.: -10 °C ... 50 °C
Working pressure min./max.: 2 bar ... 16 bar

Condensate drain	Filter reservoir volume [cm³]	Version	Part No.
fully automatic, open without pressure	25	Metal reservoir without window	1827009600

Dimensions



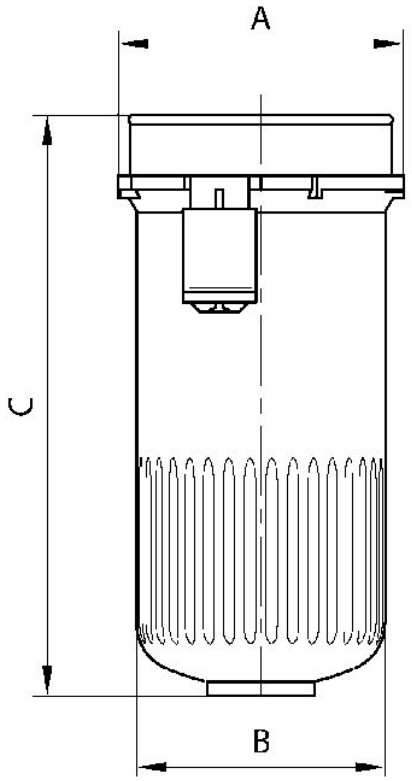
Part No.	A	B	C
1827009600	42.5	33.2	137

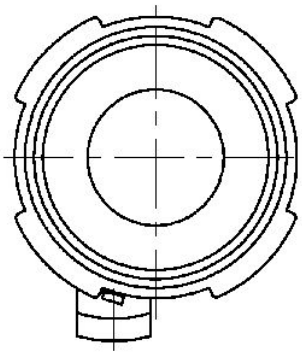
Reservoir, Series NL2-CLA

Filter reservoir volume: 130 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.
130	Metal reservoir without window	1827009606

Dimensions





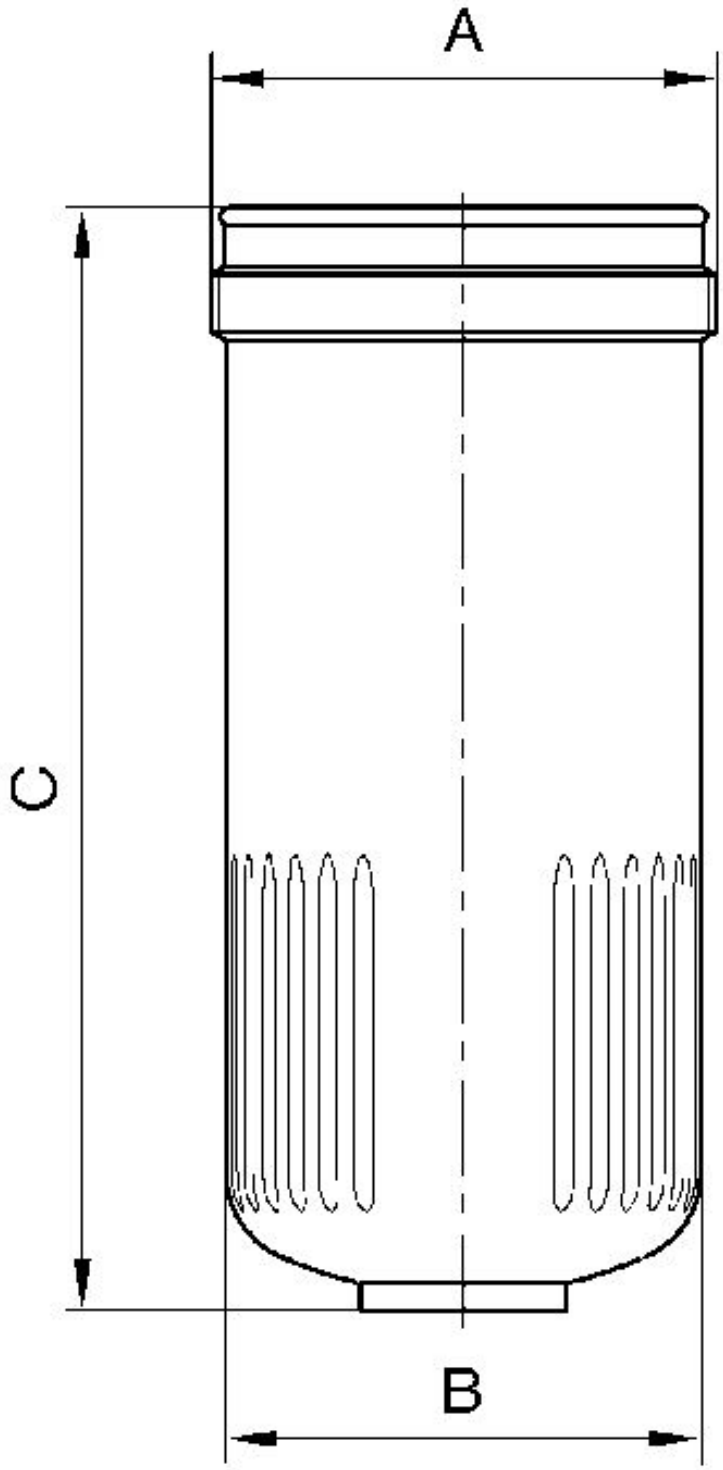
Part No.	A	B	C
1827009606	42.5	33.2	100

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



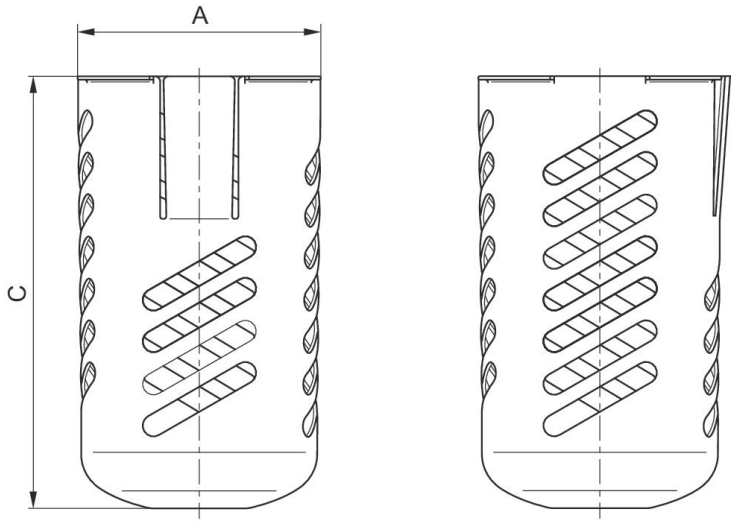
Dimensions in mm

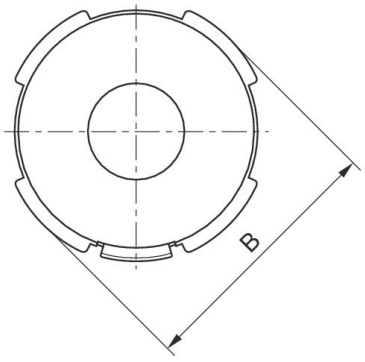
Part No.	A	B	C
1827009333	M36x1.5	30	100

Protective guard, Series NL2

Type	Material	Weight [kg]	Part No.
NL2	Steel, chrome-plated	0.066	1820507000

Dimensions





Part No.	Type	A	B	C
1820507000	NL2	39	43	86

Reservoir for lubricator, Series NL2-CBS

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

Fig.	Version	Part No.
Fig. 2	reservoir, metal, with inspection glass	1827009339
Fig. 3	reservoir, polycarbonate, without protective guard	R412003759

Fig. 1

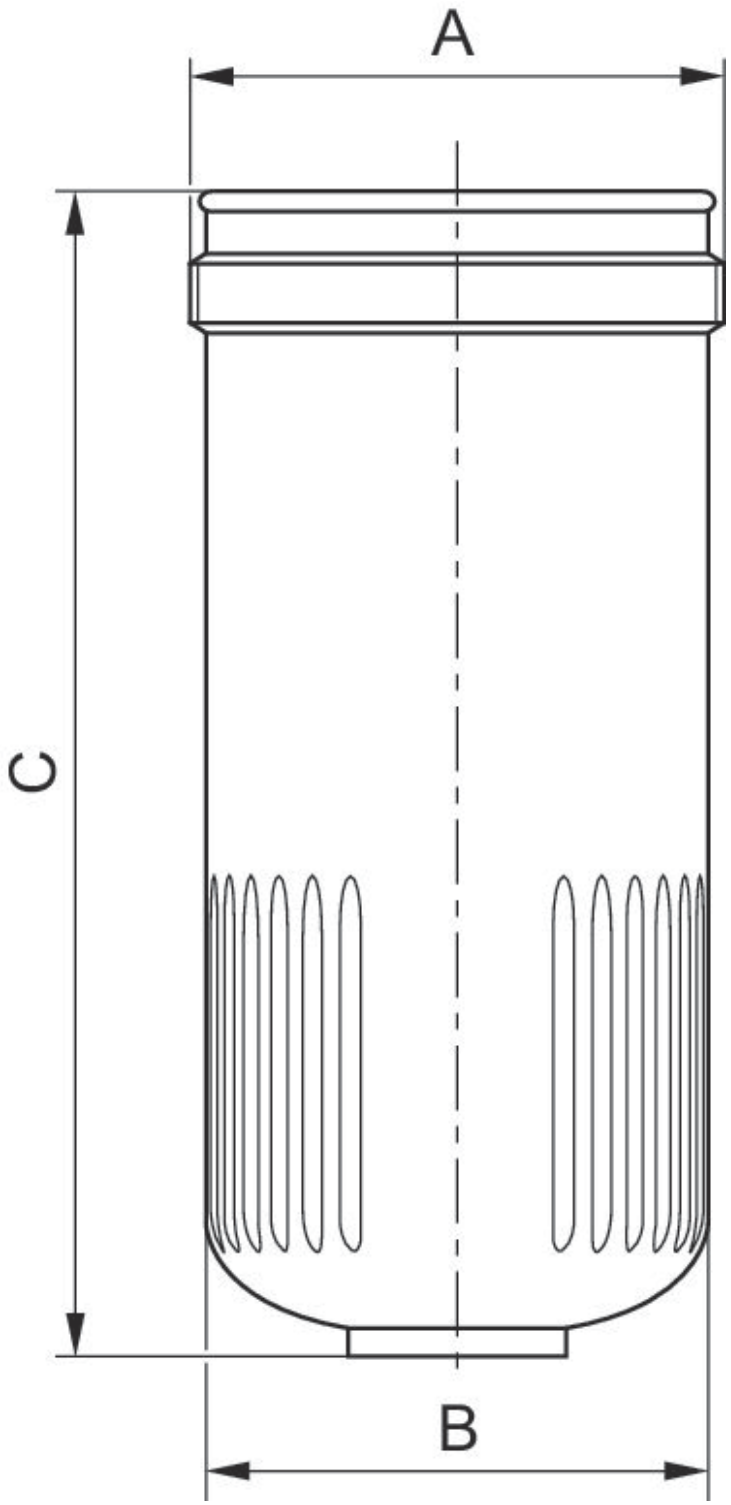


Fig. 2

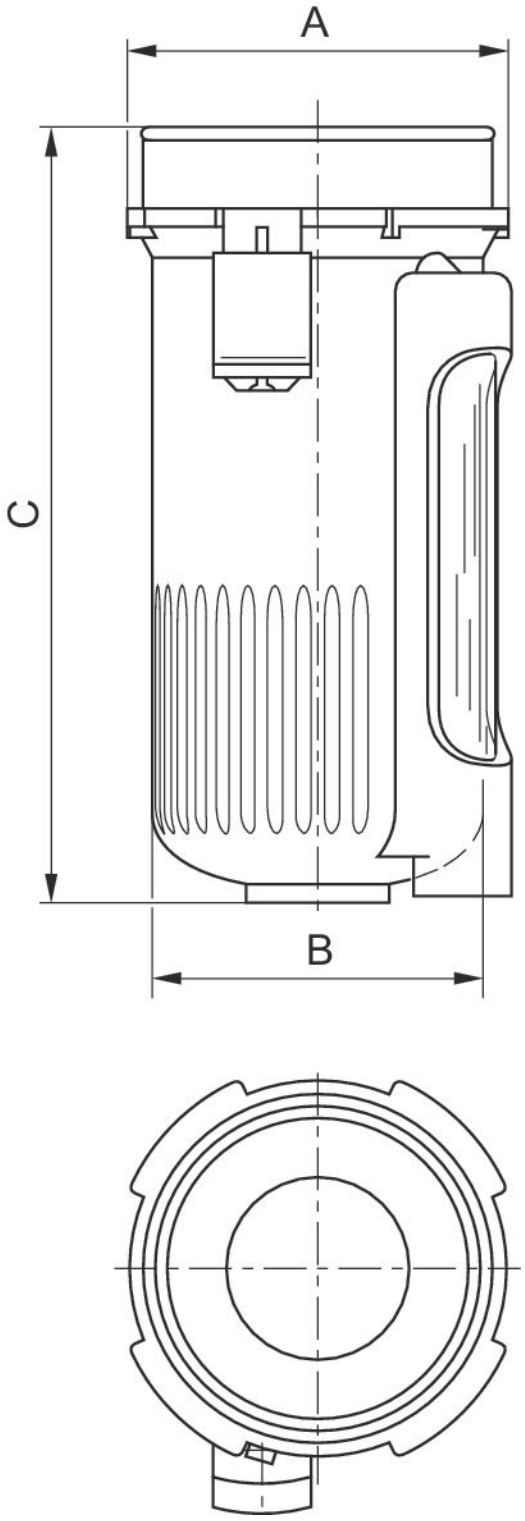
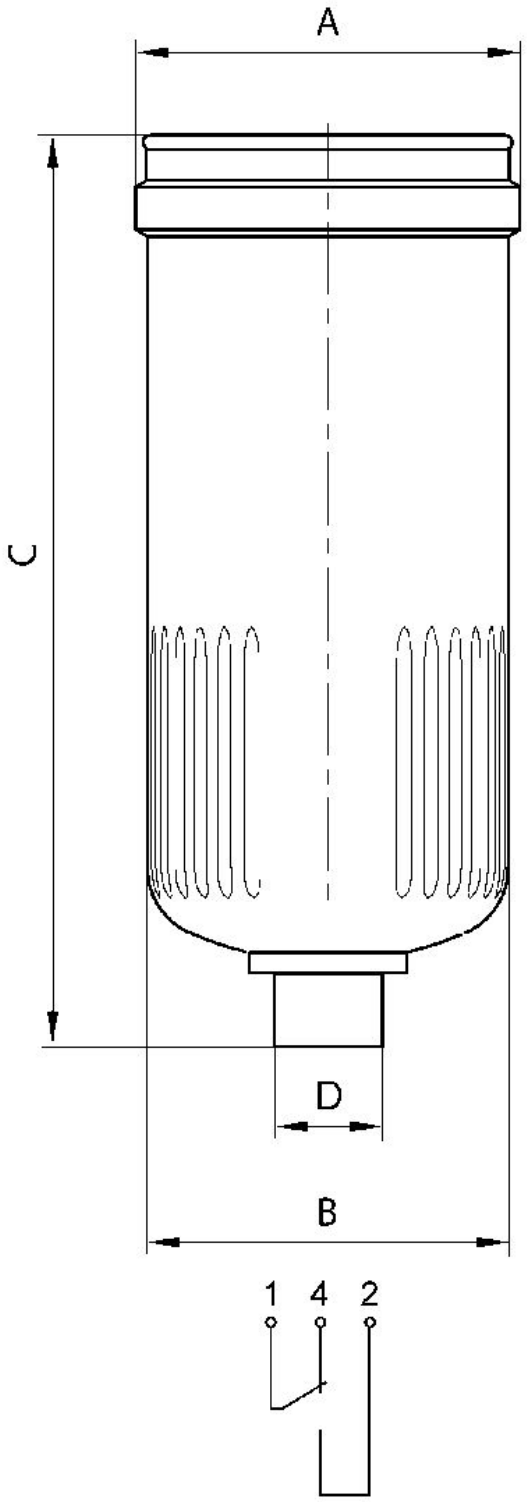


Fig. 3



Part No.	A	B	C	D
1827009333	M36x1,5	30	100	-
1827009339	36	30	100	-
R412003759	M36x1,5	30	112	M12x1

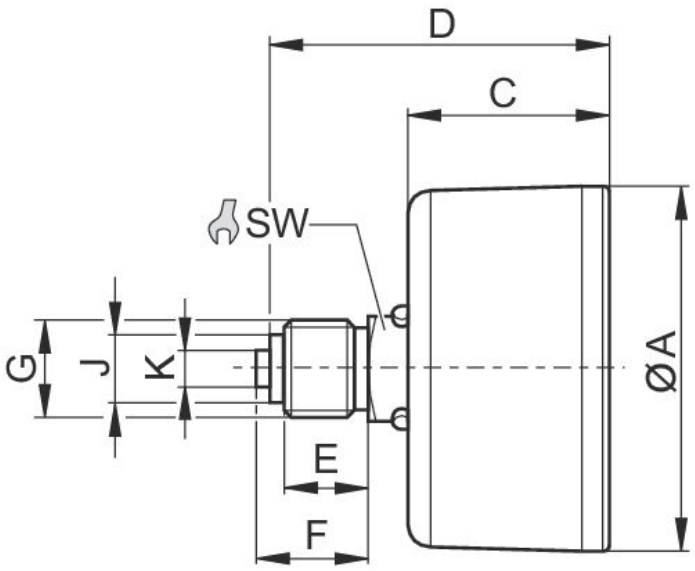
Pressure gauge, Series PG1-SNL-ADJ

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 1/4	0	1.2	0	1.6	0	1.6	R412003474
50	G 1/4	0	2	0	2.5	0	2.5	R412003475
50	G 1/4	0	3.2	0	4	0	4	R412003476
50	G 1/4	0	4	0	6	0	6	R412003477
50	G 1/4	0	8	0	10	0	10	R412003478
50	G 1/4	0	12	0	16	0	16	R412003479

Scale value	Part No.
0.05	R412003474
0.1	R412003475
0.2	R412003476
0.2	R412003477
0.5	R412003478
0.5	R412003479

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

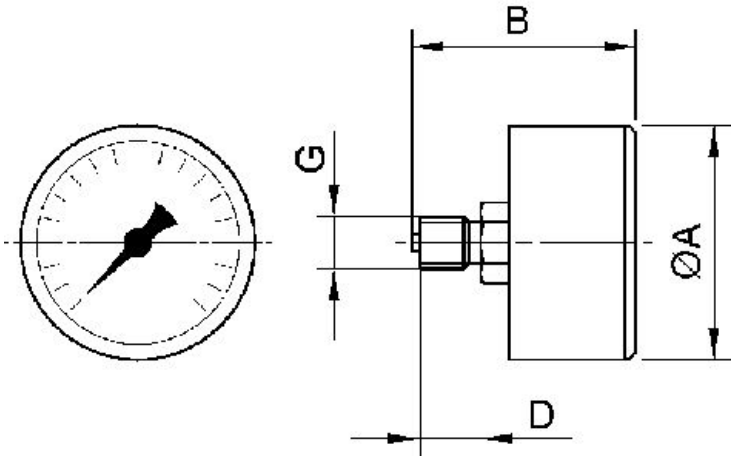
Pressure gauge, Series PG1-SNL

Background color: Black
Scale color: Green
Material viewing window: Mineral glass
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.
50	G 1/4	0	12	0	16	0	16	R412004987

Scale value	Part No.
0.5	R412004987

Dimensions



Dimensions in mm

Part No.	G	Nominal diameter	Ø A	B	D
R412004987	G 1/4	50 mm	49	48.3	13

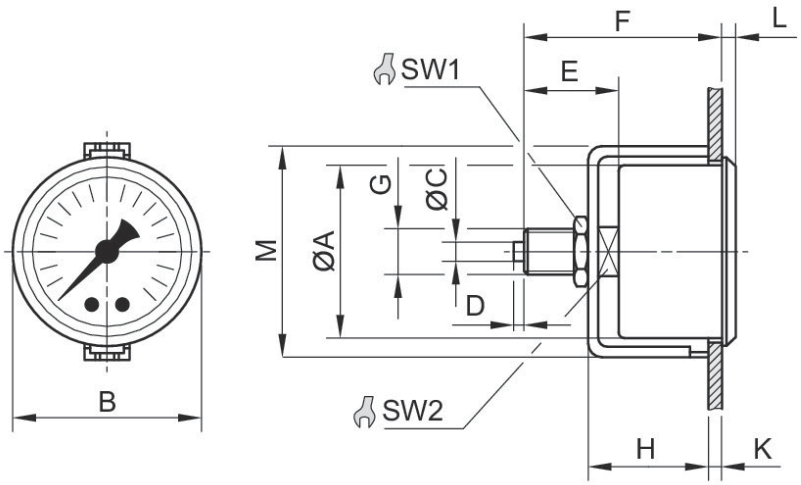
Pressure gauge, Series PG1-SNL

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.
50	G 1/4	0	2	0	2.5	0	2.5	1827231032
63	G 1/4	0	2	0	2.5	0	2.5	1827231036
50	G 1/4	0	4	0	6	0	6	1827231033
63	G 1/4	0	4	0	6	0	6	1827231037
50	G 1/4	0	8	0	10	0	10	1827231034
63	G 1/4	0	8	0	10	0	10	1827231038
50	G 1/4	0	12	0	16	0	16	1827231035
63	G 1/4	0	12	0	16	0	16	1827231039

Scale value	Part No.
0.1	1827231032
0.1	1827231036
0.2	1827231033
0.2	1827231037
0.5	1827231034
0.5	1827231038
0.5	1827231035
0.5	1827231039

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

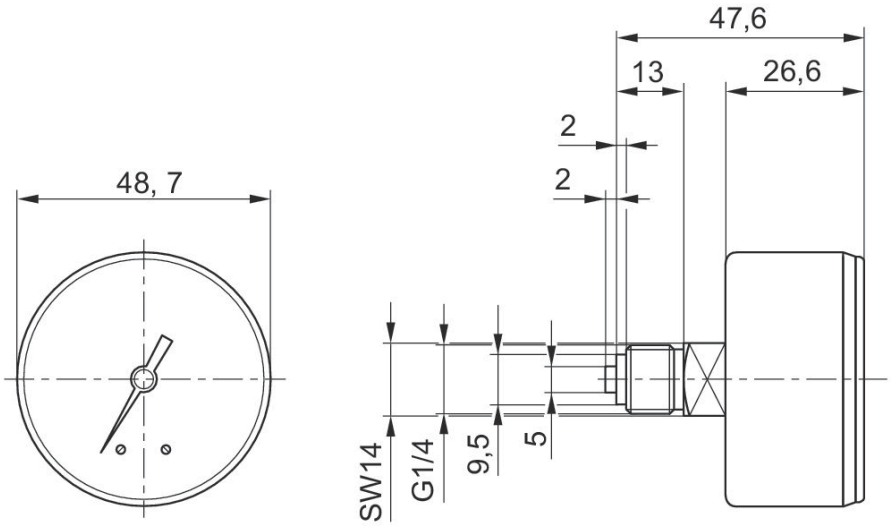
Pressure gauge, Series PG1-SNL

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.
50	G 1/4	0	1.2	0	1.6	0	1.6	1827231023

Scale value	Part No.
0.05	1827231023

Dimensions in mm



Pressure gauge, Series PG1-SNL

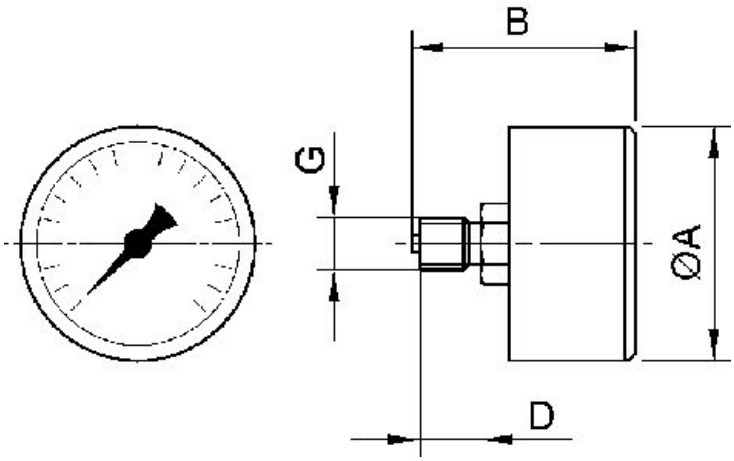
Type: Back port
Background color: Black
Scale color: Green
Material viewing window: Polystyrene
Main scale unit (outside): bar
Secondary scale unit (inside): psi
Standardization: EN 837-1

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 1/4	-0.8	0	-1	0	-1	0	1827231057
40	G 1/4	0	10	0	16	0	16	1827231047
40	G 1/4	0	4	0	6	0	6	1827231059
40	G 1/4	0	8	0	10	0	10	1827231060
50	G 1/4	-0.8	0	-1	0	-1	0	1827231054
50	G 1/4	0	2	0	2.5	0	2.5	1827231012
50	G 1/4	0	4	0	6	0	6	1827231016
50	G 1/4	0	8	0	10	0	10	1827231015
50	G 1/4	0	12	0	16	0	16	1827231010
63	G 1/4	-0.8	0	-1	0	-1	0	1827231055
63	G 1/4	0	12	0	16	0	16	1827231011

Scale value	Certification	Part No.
0.1		1827231057
0.5	Suitable for ATEX	1827231047
0.2		1827231059
0.5	Suitable for ATEX	1827231060
0.1		1827231054
0.1		1827231012
0.2	Suitable for ATEX	1827231016
0.5	Suitable for ATEX	1827231015

Scale value	Certification	Part No.
0.5	Suitable for ATEX	1827231010
0.1		1827231055
0.5	Suitable for ATEX	1827231011

Dimensions



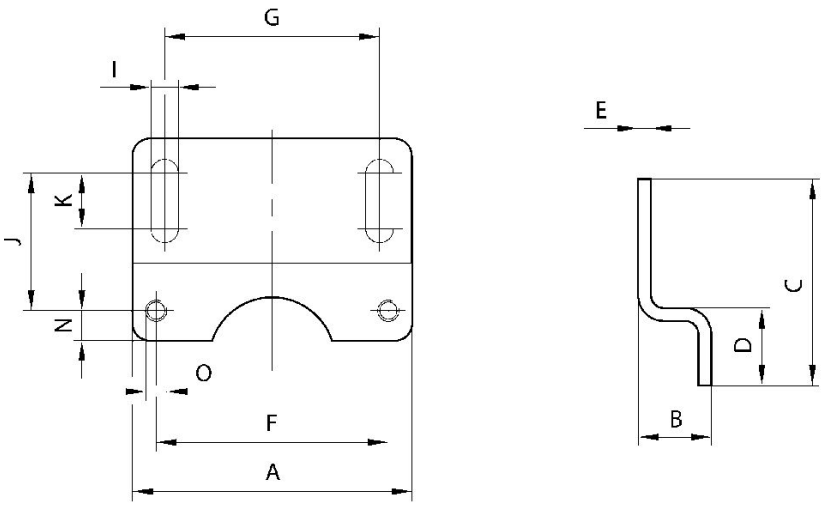
Dimensions in mm

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

Mounting plate, Series NL2-MBR-...-W01

Material	Part No.
Steel, chrome-plated	1821336006

Dimensions



Part No.	A	B	C	D	E	F	G	I	J
1821336006	48	20	42	18	3	36	38	5.4	27.5

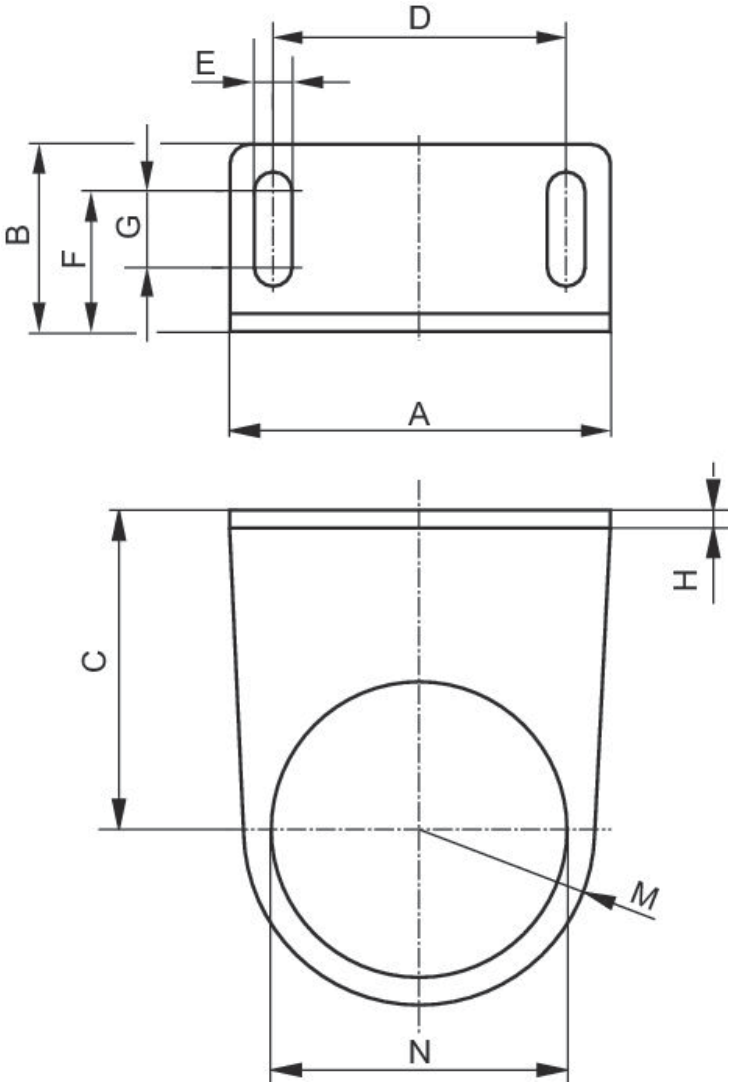
Part No.	K	N	O
1821336006	8	6	M4

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

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

Material	Part No.
Steel, chrome-plated	1821331013

Dimensions

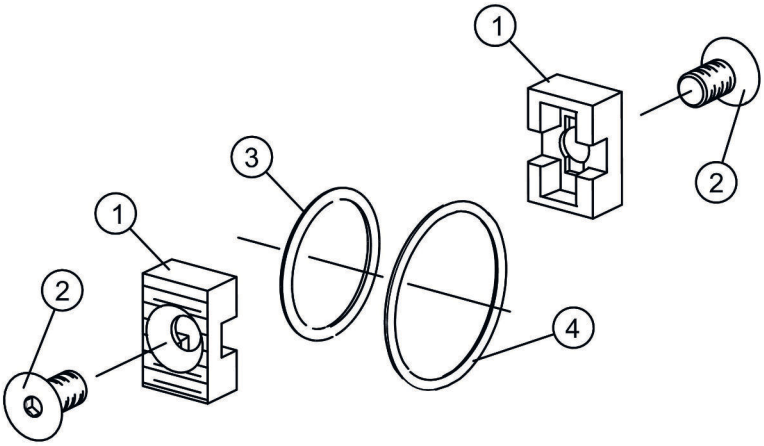


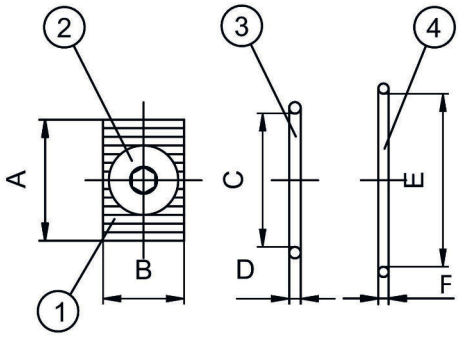
Part No.	A	B	C	D	E	F	G	H	M
1821331013	48	27	43.5	38	5.4	18.5	8	3	20

Part No.	N
1821331013	30.5

Block assembly kit, Series NL2-MBR-...-W04

Weight [kg]	Part No.
0.02	1827009359





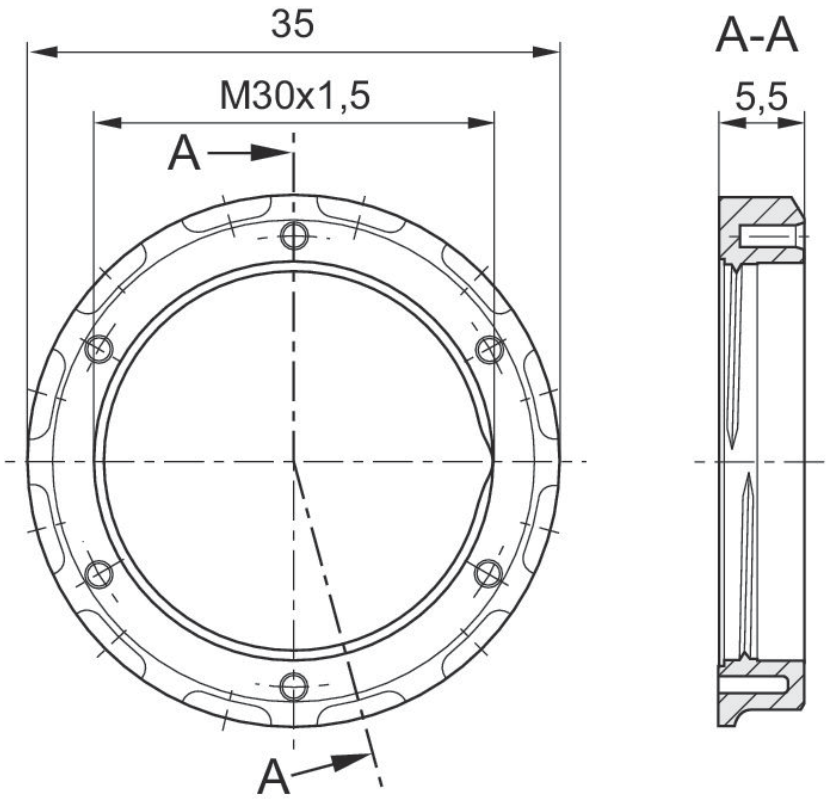
1) clamp mounting 2) screw 3) O-ring 4) O-ring

Part No.	A	B	C	D	E	F
1827009359	14.8	12.7	15.6	1.78	19.22	1.78

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

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

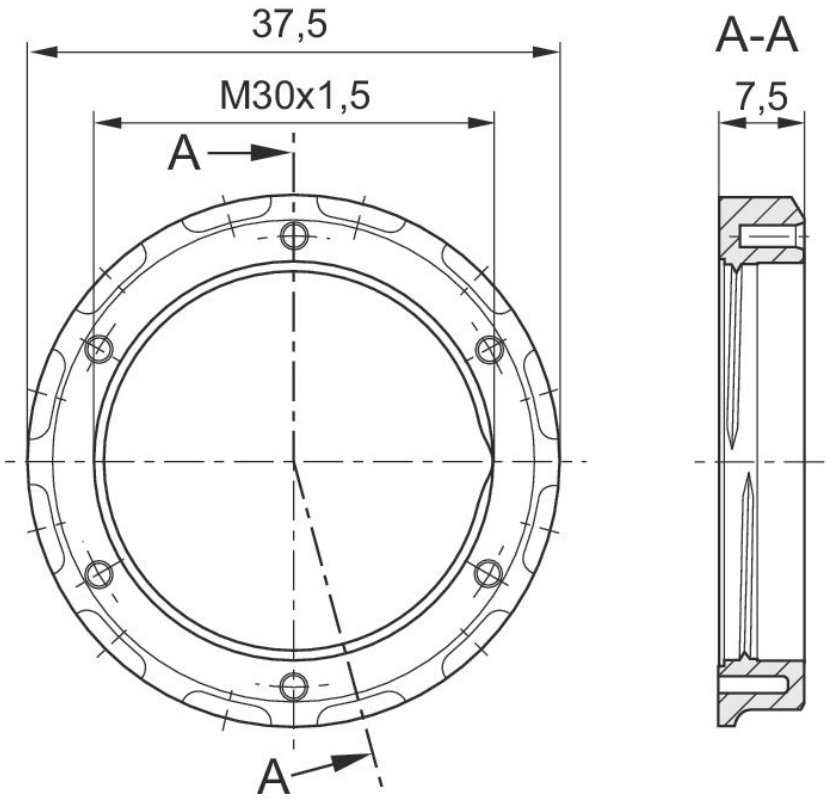
Dimensions in mm



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

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

Dimensions



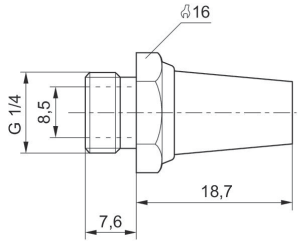
AVENTICS Series SI1 Silencers

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

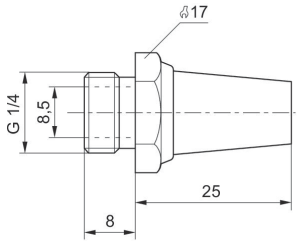
R412004817

Dimensions in mm



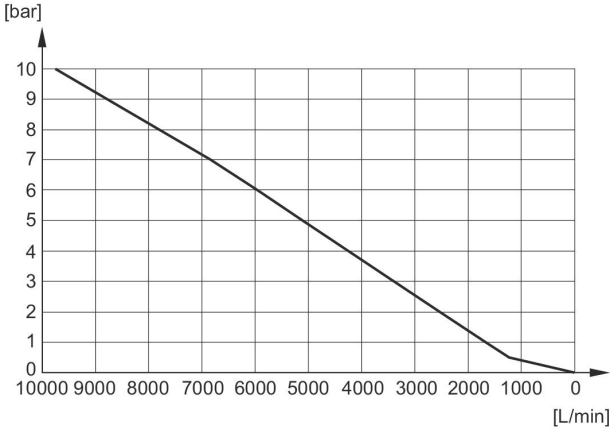
1827000001

Dimensions in mm



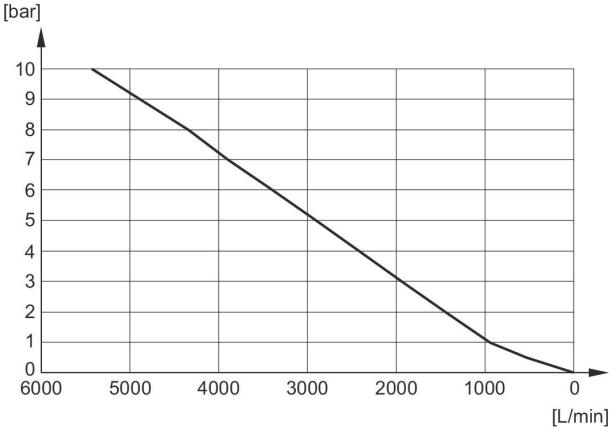
Flow diagram

R412004817



Flow diagram

1827000001

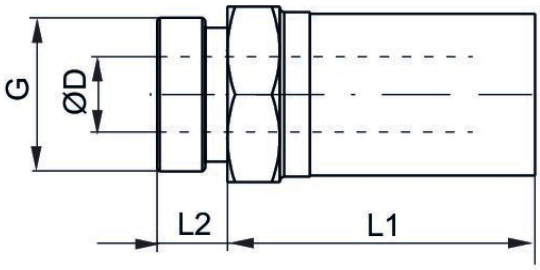


AVENTICS Series SI1 Silencers

Compressed air connection type: External thread
Silencer material: 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

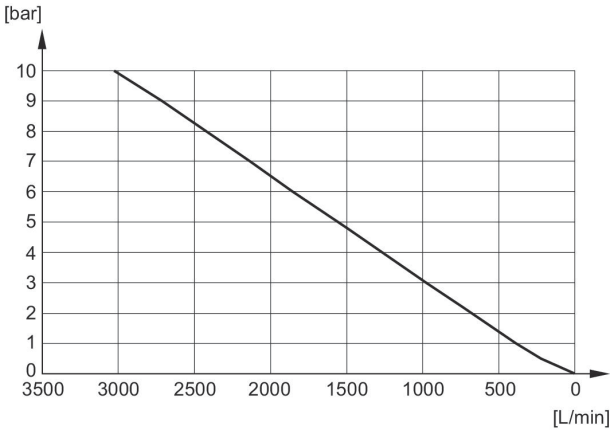
Dimensions



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

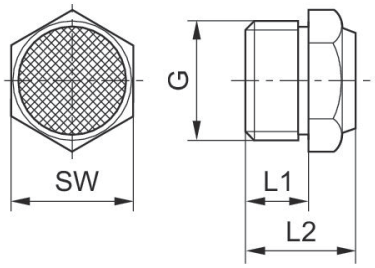


AVENTICS Series SI1 Silencers

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

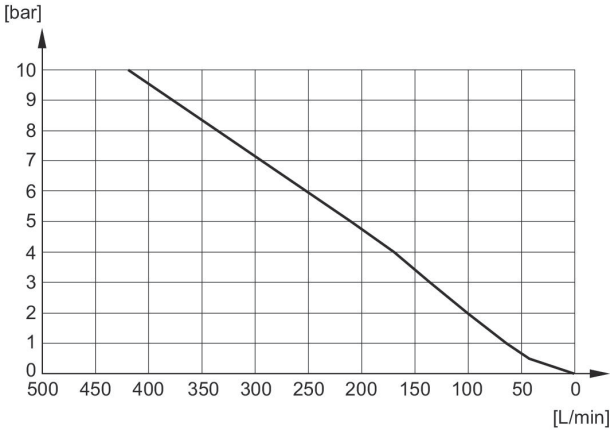
Dimensions



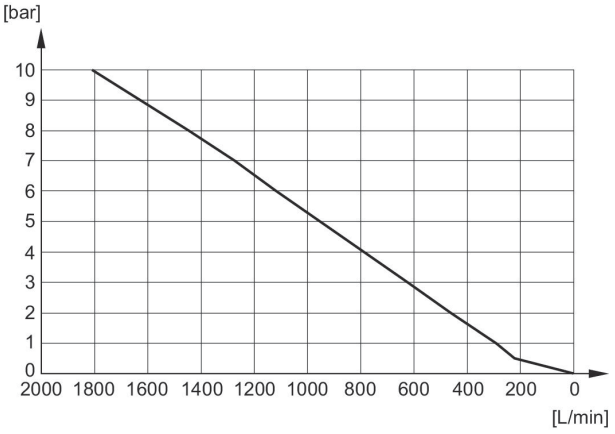
Part No.	Port G	L1	L2	SW
1827000032	M5	5	10.3	7
1827000031	G 1/8	6	11.5	13
1827000033	G 1/4	8	13.5	17
1827000034	G 3/8	10	17.5	22
1827000035	G 1/2	12	19.5	27
8145003400	G 3/4	14	22.5	32
8145001000	G 1	16	22.5	41

Sound pressure level measured at 6 bar at 1 m distance

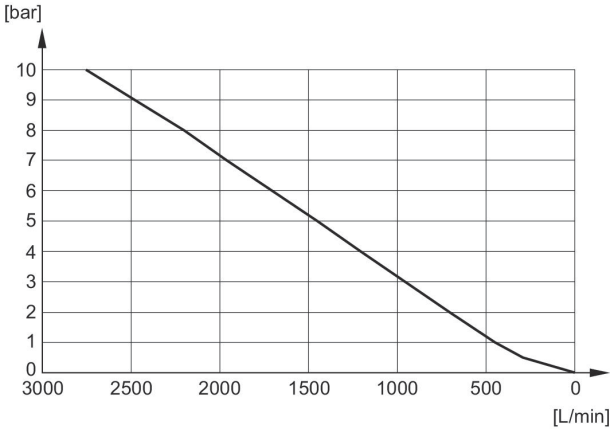
Flow diagram1827000032



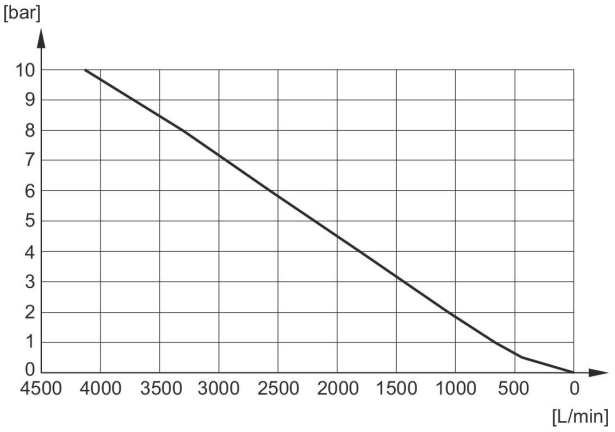
Flow diagram 1827000033



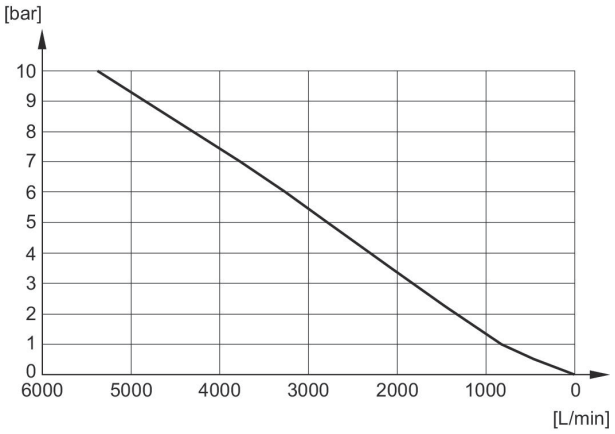
Flow diagram 1827000034



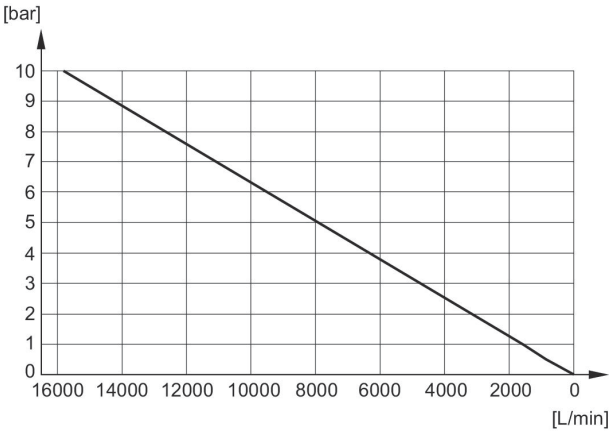
Flow diagram 1827000035



Flow diagram 8145003400



Flow diagram 8145001000

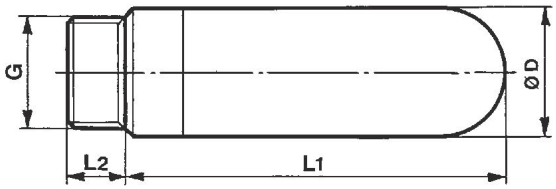


AVENTICS Series SI1 Silencers

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

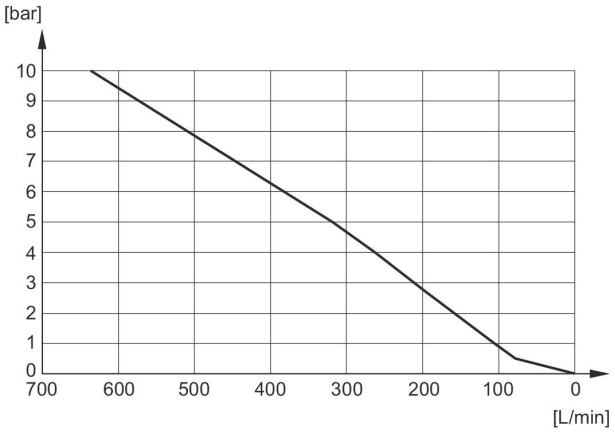
Dimensions



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

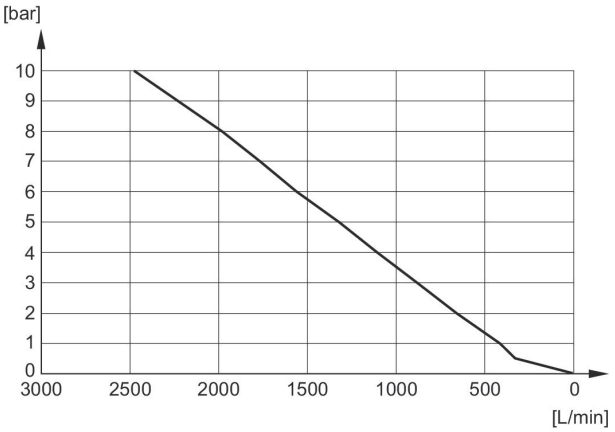
Flow diagram

1827000018



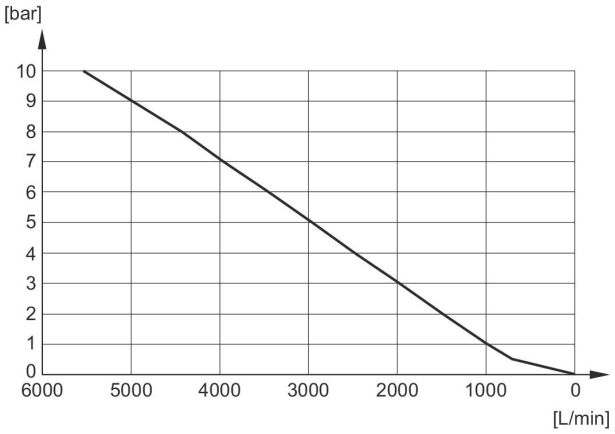
Flow diagram

1827000019



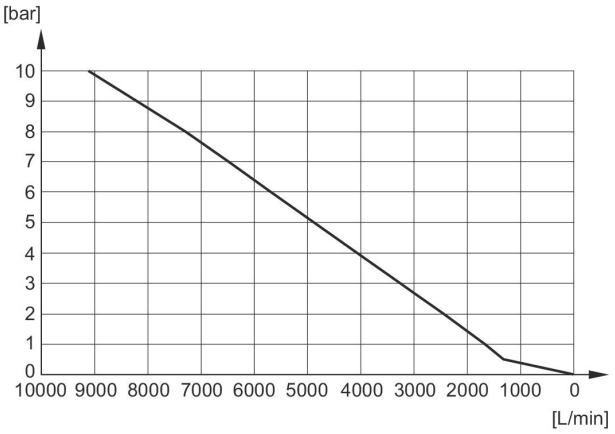
Flow diagram

1827000020



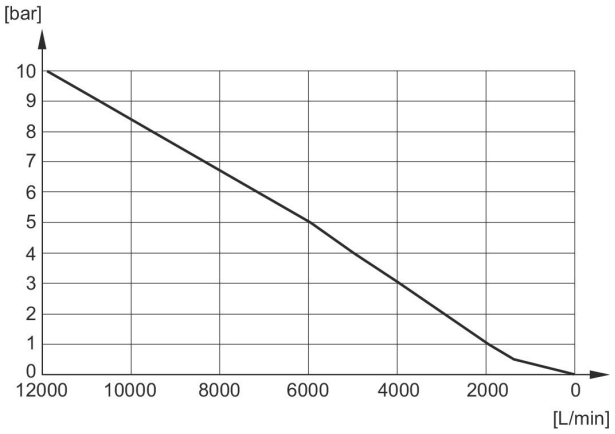
Flow diagram

1827000021



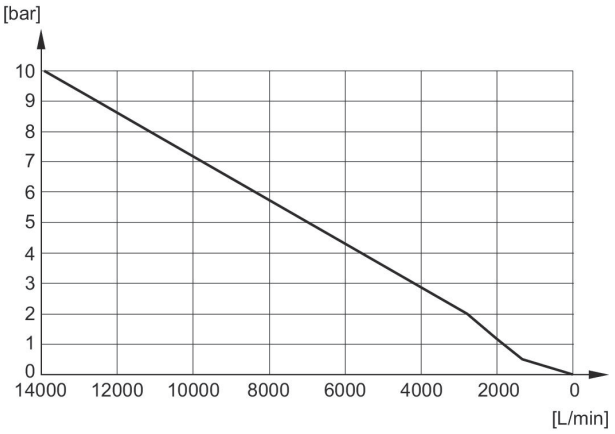
Flow diagram

1827000022



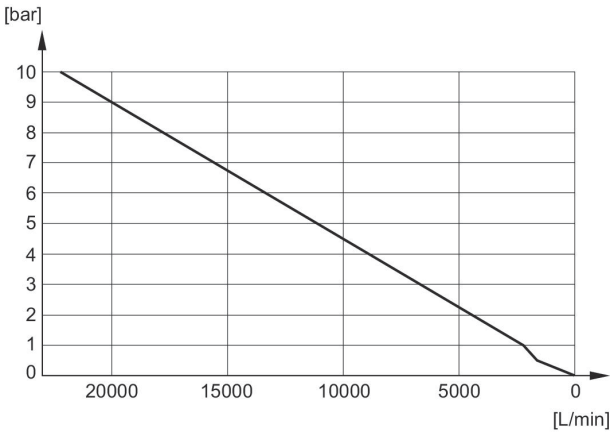
Flow diagram

1827000023



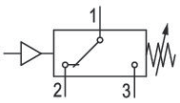
Flow diagram

1827000024



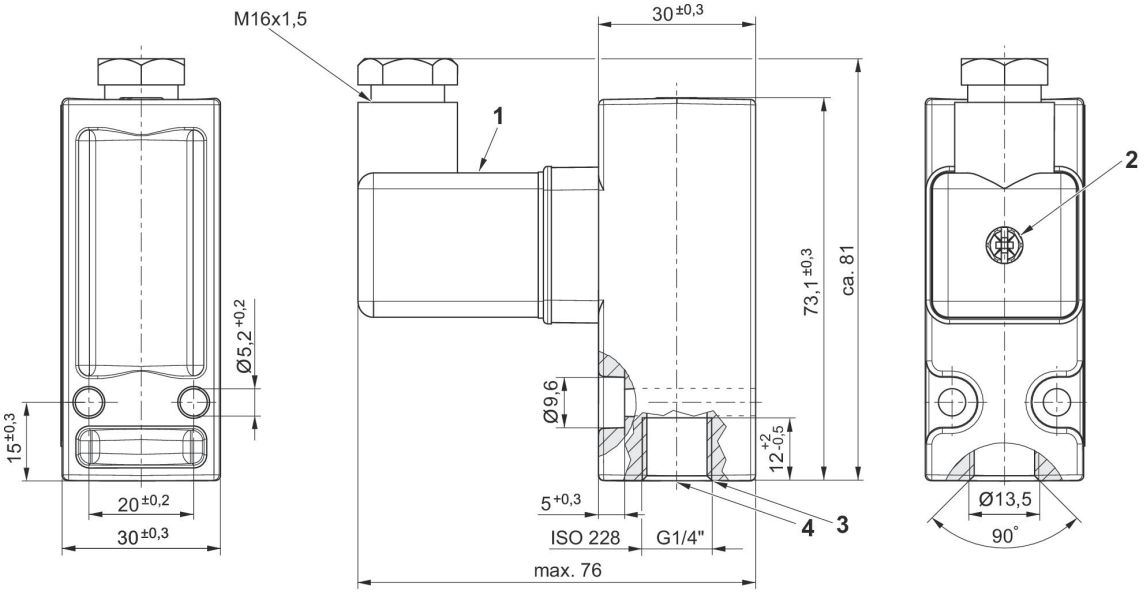
Pressure Switches, Series PM1

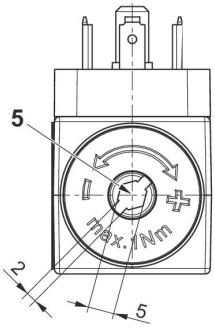
Compressed air connection type: Internal thread
Electrical connection 2, thread size: EN 175301-803, form A
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C



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

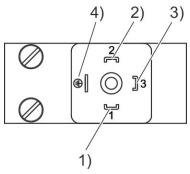
Max. permissible continuous current I max. [A] with inductive load

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

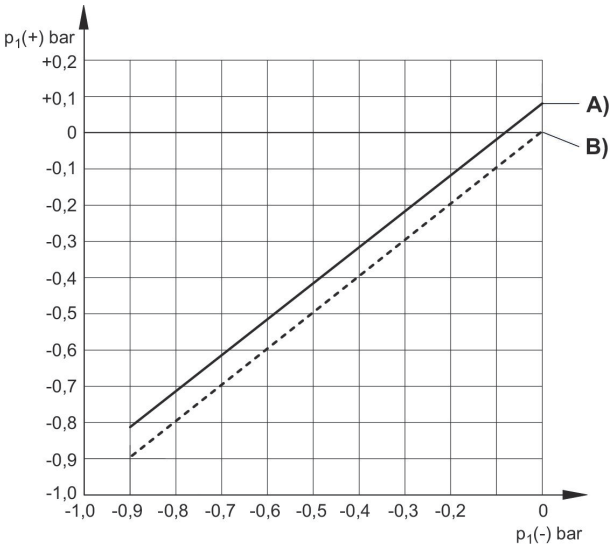
R412010711, R412010713, R412022752

PIN assignment for valve plug connectors



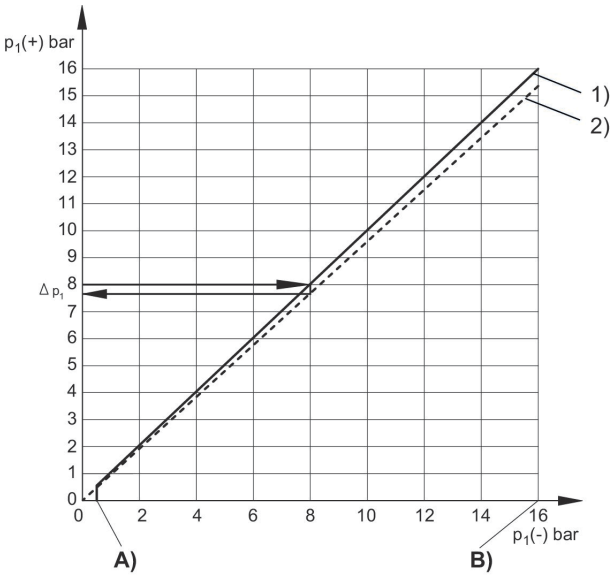
Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

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

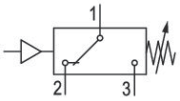
Differential switching pressure characteristic curve (0,2 - 16 bar)



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

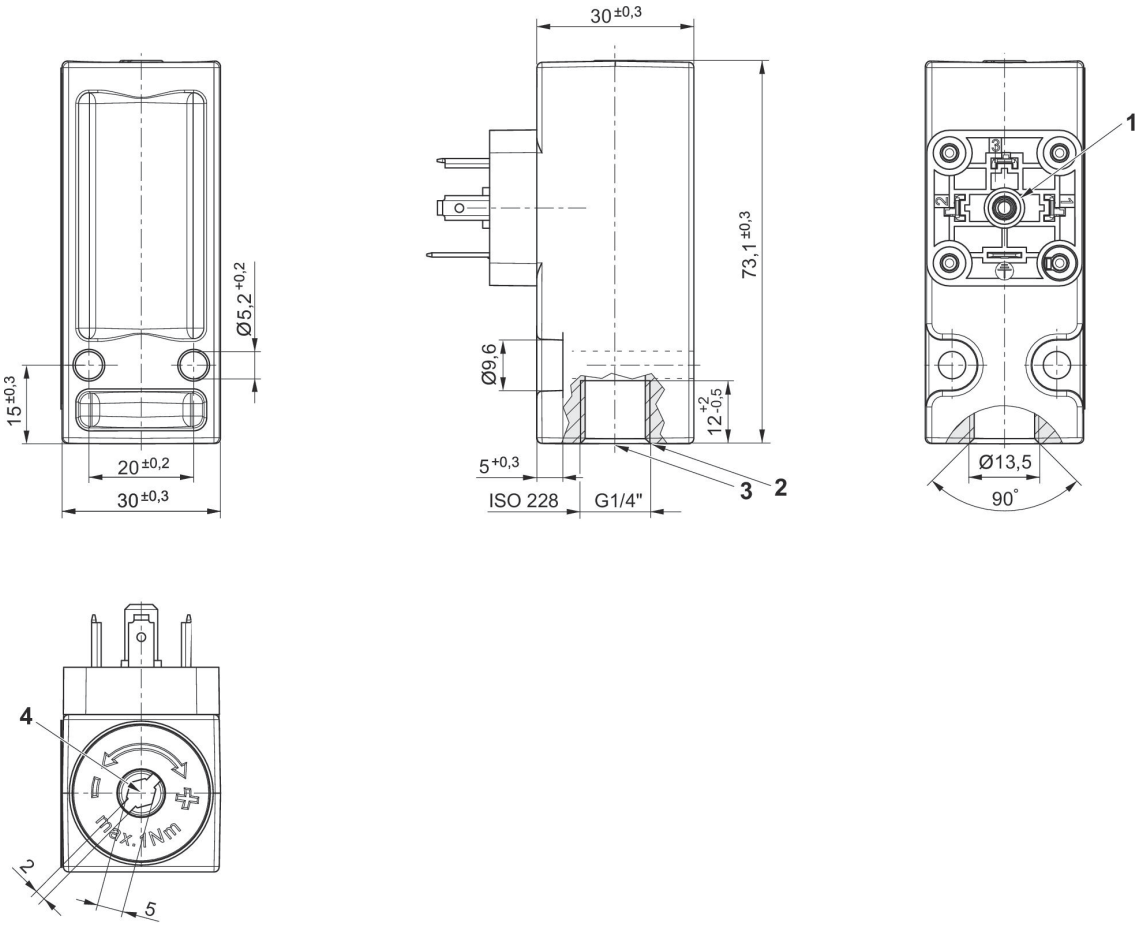
Pressure Switches, Series PM1

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

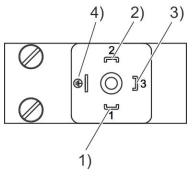
Max. permissible continuous current I max. [A] with ohmic load

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

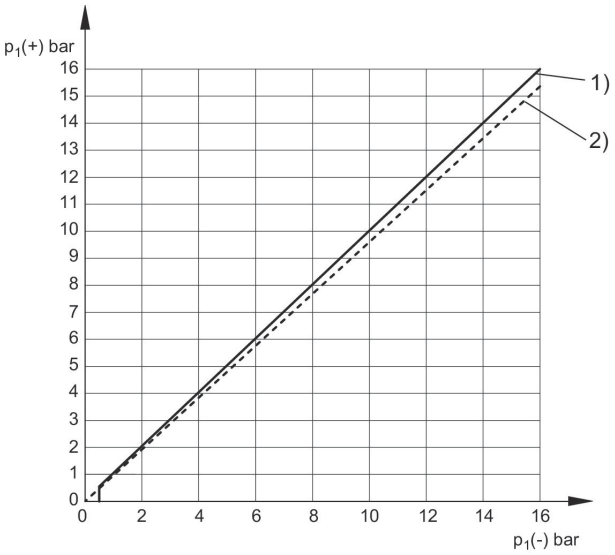
R412010712

PIN assignment for valve plug connectors



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

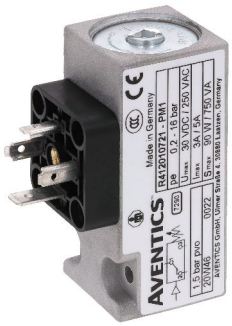
Differential switching pressure characteristic curve (0,2 - 16 bar)

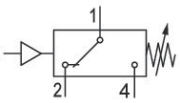


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure Switches, Series PM1

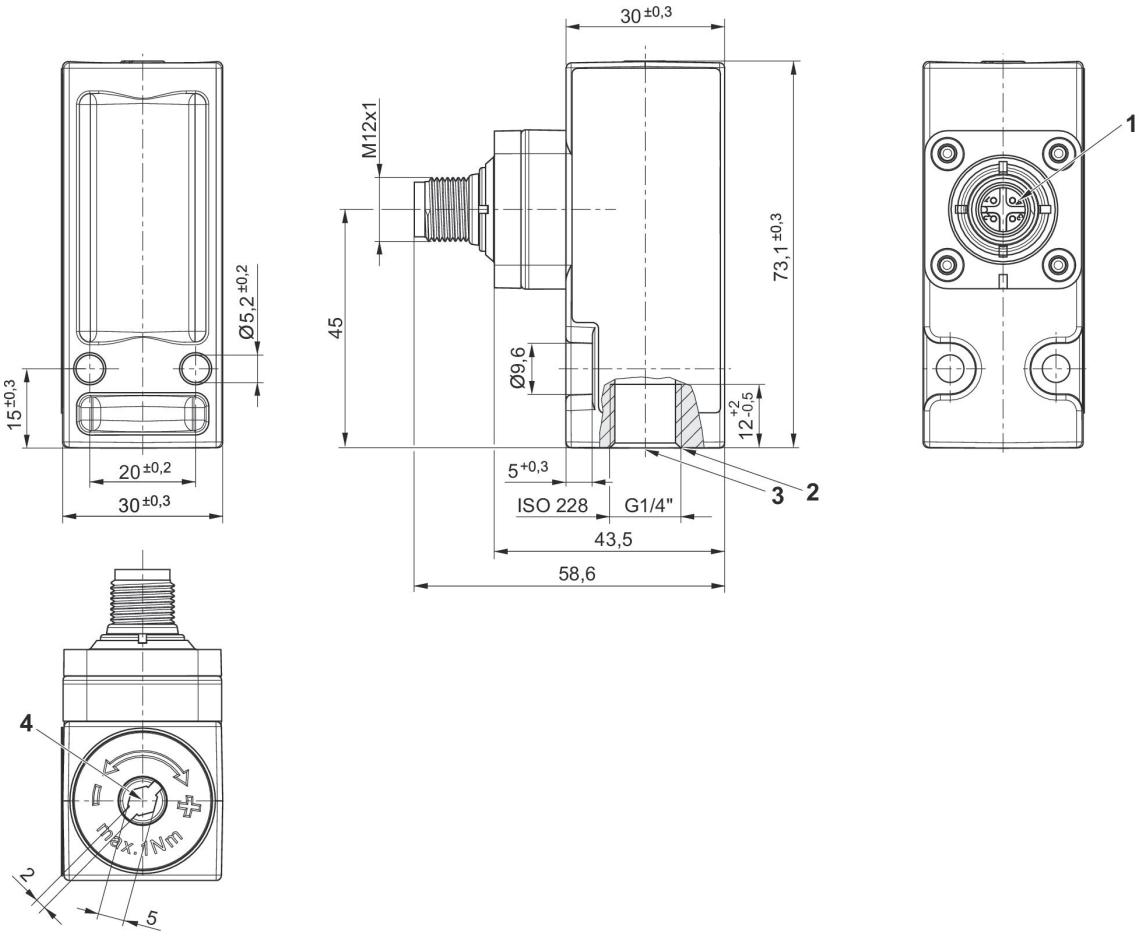
Compressed air connection type: Internal thread
Electrical connection 2, thread size: M12x1
Ambient temperature min./max.: -20 °C ... 80 °C
Medium temperature min./max.: -10 °C ... 80 °C





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

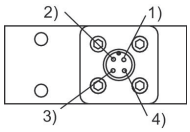
U [V]	I [A] 1)	I [A] 2)
30	4	3

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

R412010717

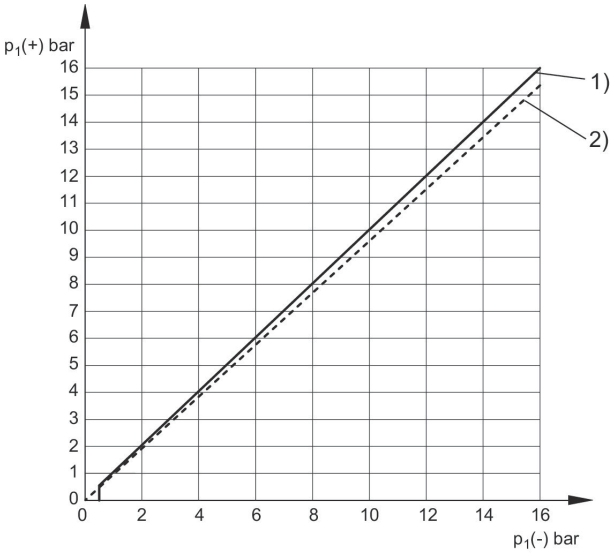
Pin assignments

M12x1



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

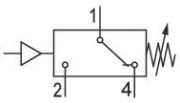
Differential switching pressure characteristic curve (0,2 - 16 bar)



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

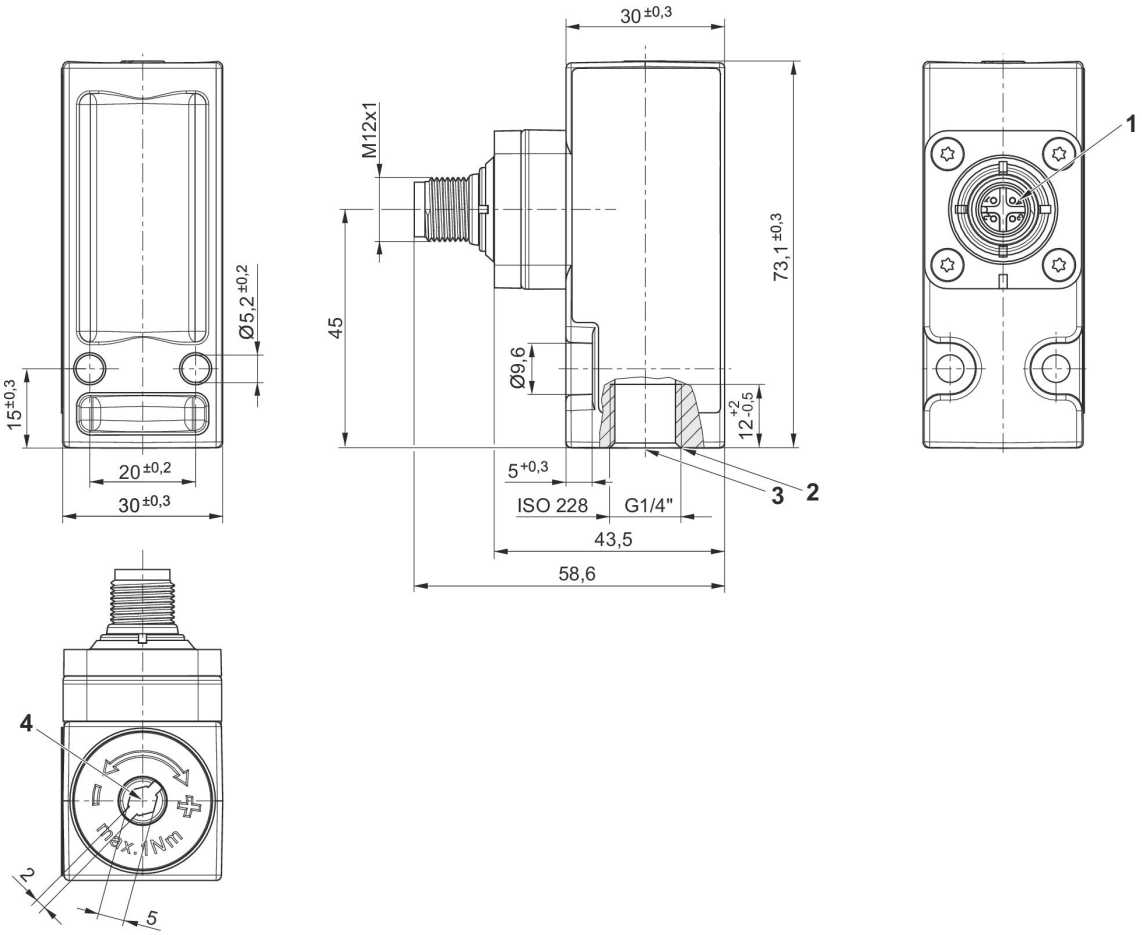
Pressure Switches, Series PM1

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

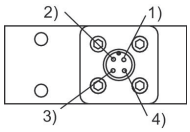
U [V]	I [A] 1)	I [A] 2)
30	4	3

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

R412010716

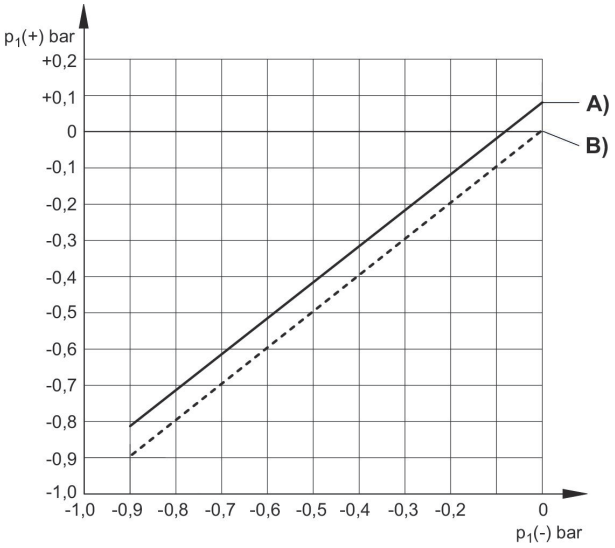
Pin assignments

M12x1



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

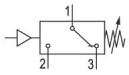
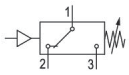
Differential switching pressure characteristic curve (-0,9 – 0 bar)



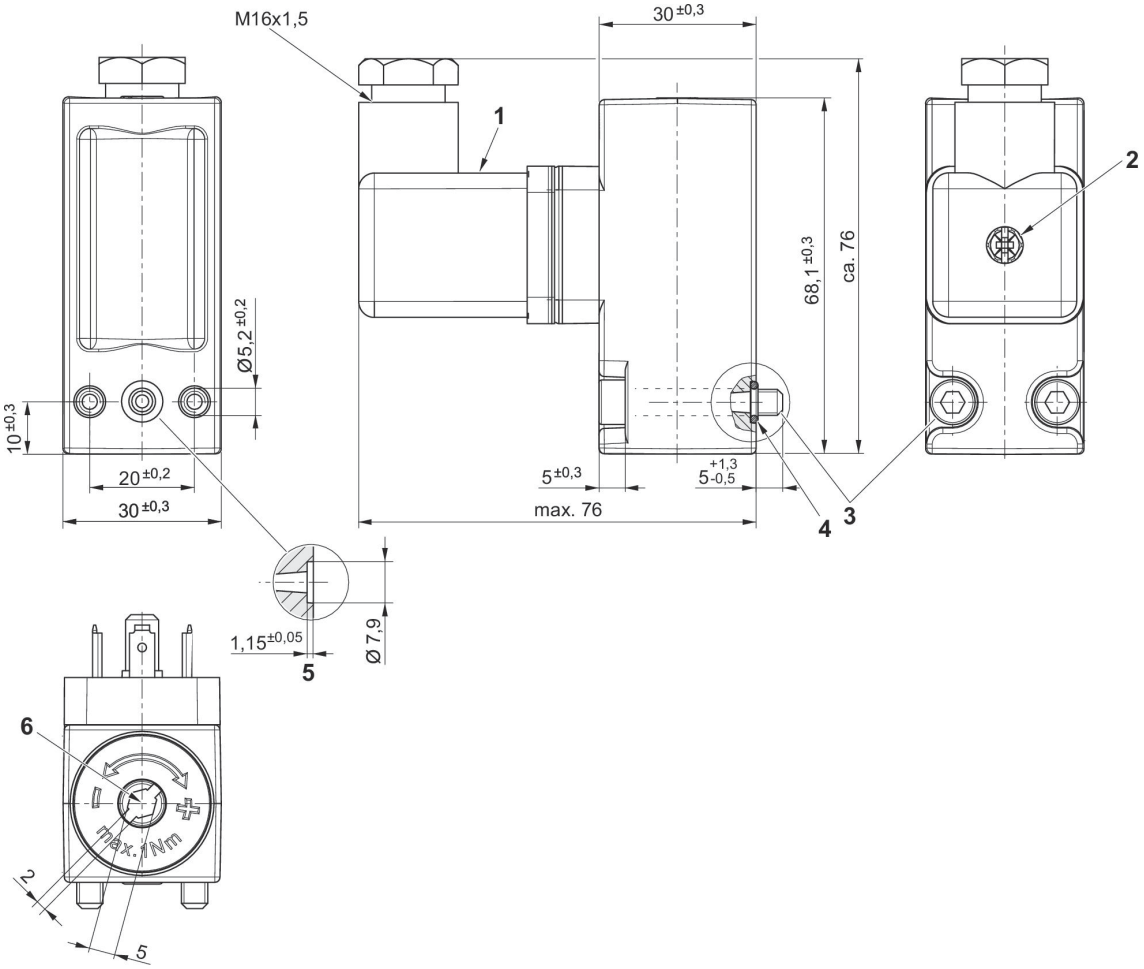
A) p1 (-), min.
B) p1 (-), max.
p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure

Pressure Switches, Series PM1

Compressed air connection type: Flange with O-ring
Electrical connection 2, thread size: 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.
	Ø 5x1,5	-0.9	0	80 bar	max. switching pressure difference	Any	R412010714
	Ø 5x1,5	0.2	16	80 bar	max. switching pressure difference	Any	R412010718

Dimensions in mm



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

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

U [V]	I [A] 1) 3)	I [A] 2) 4)
30-250	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

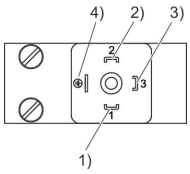
Max. permissible continuous current I max. [A] with ohmic load

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

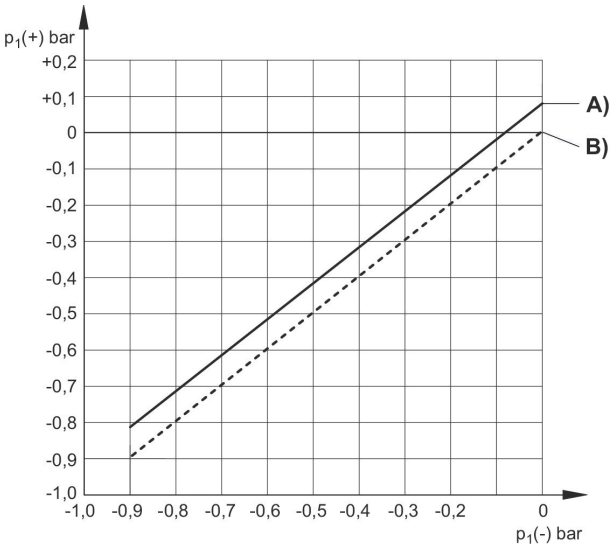
R412010714, R412010718

PIN assignment for valve plug connectors



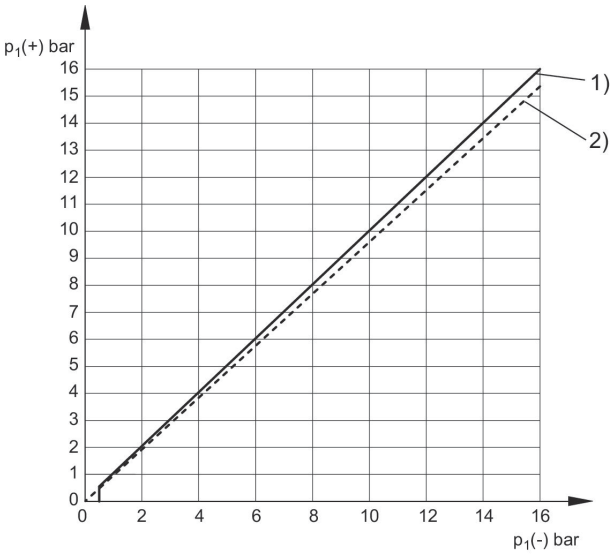
Pin	Allocation
1	+UB
2	break contact
3	NO (make contact)
4	GND

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

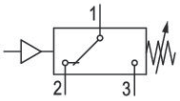
Differential switching pressure characteristic curve (0,2 - 16 bar)



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

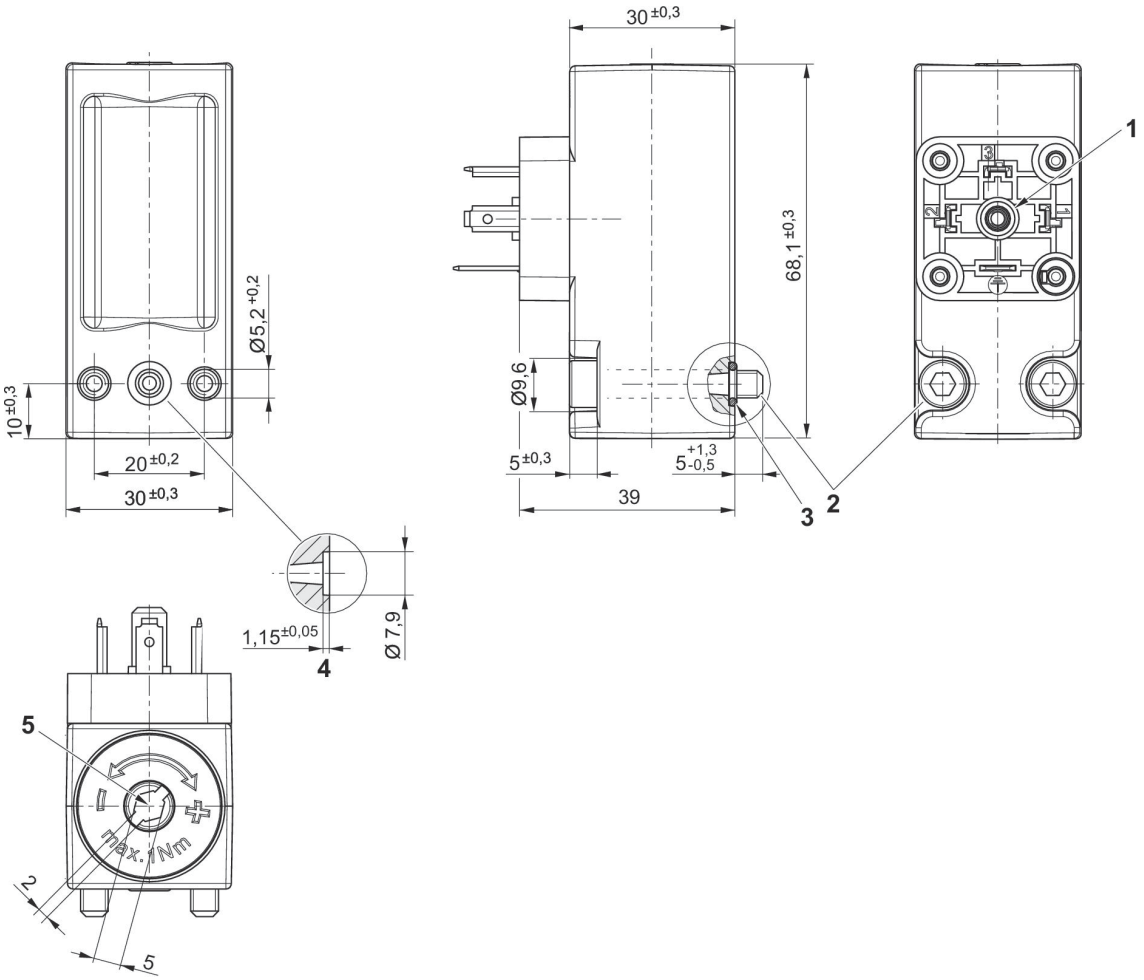
Pressure Switches, Series PM1

Compressed air connection type: Flange with O-ring
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.
Ø 5x1,5	0.2	16	80 bar	max. switching pressure difference	Any	R412010715

Dimensions in mm



1) Mounting screw
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 ohmic load

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

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

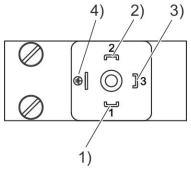
Max. permissible continuous current I max. [A] with inductive load

U [V]	30-250	30 / 48 / 60 / 125
I [A] 1) 3)	3	-
I [A] 2) 4)	-	2 / 0,55 / 0,4 / 0,15

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

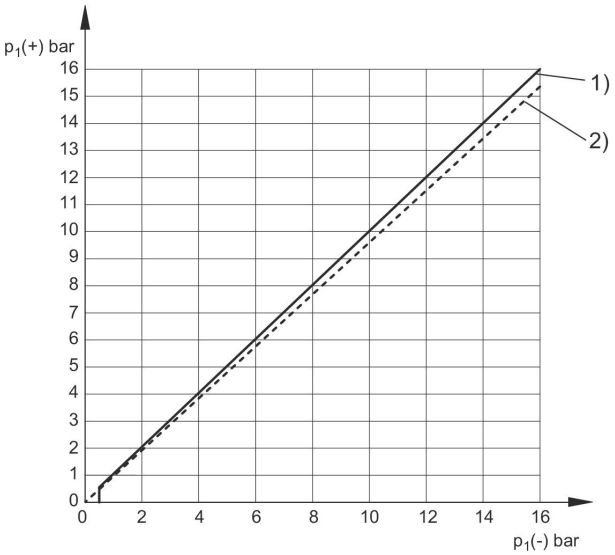
R412010715

PIN assignment for valve plug connectors



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

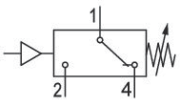
Differential switching pressure characteristic curve (0,2 - 16 bar)



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

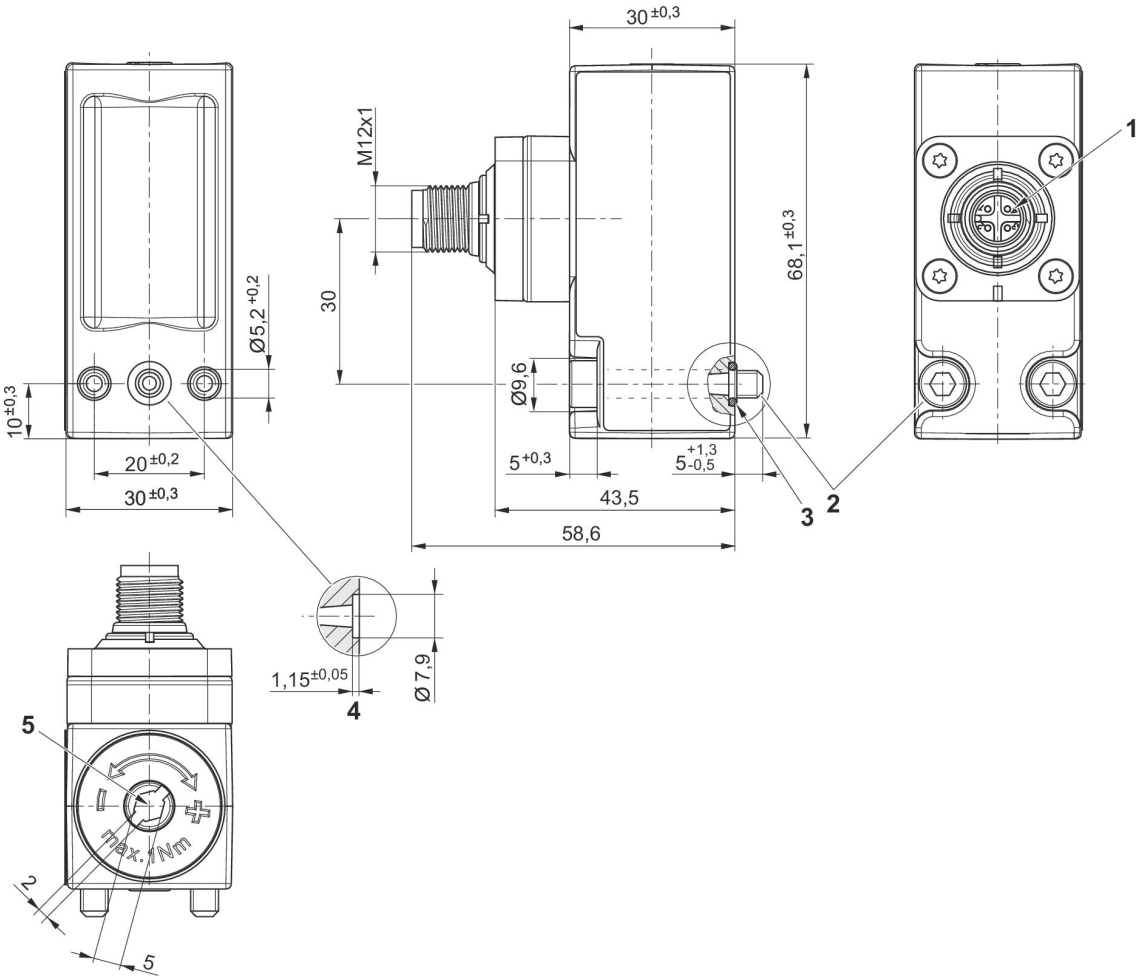
Pressure Switches, Series PM1

Compressed air connection type: 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

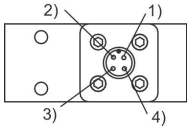
reference cycle: 30/min., reference temperature: +30 °C
1) AC

2) DC

R412010719

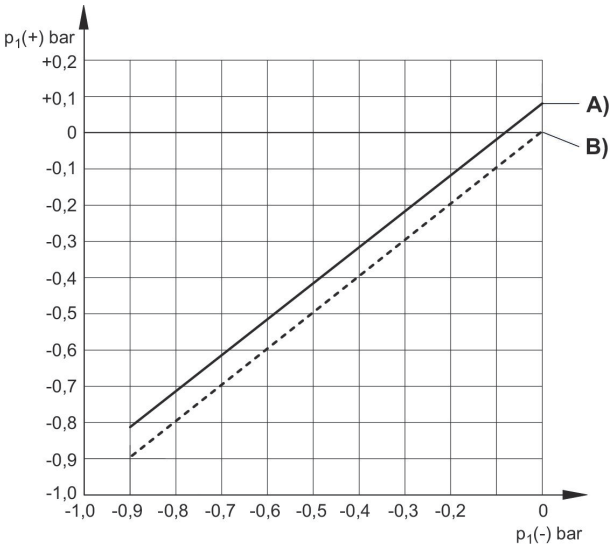
Pin assignments

M12x1



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

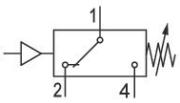
Differential switching pressure characteristic curve (-0,9 – 0 bar)



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

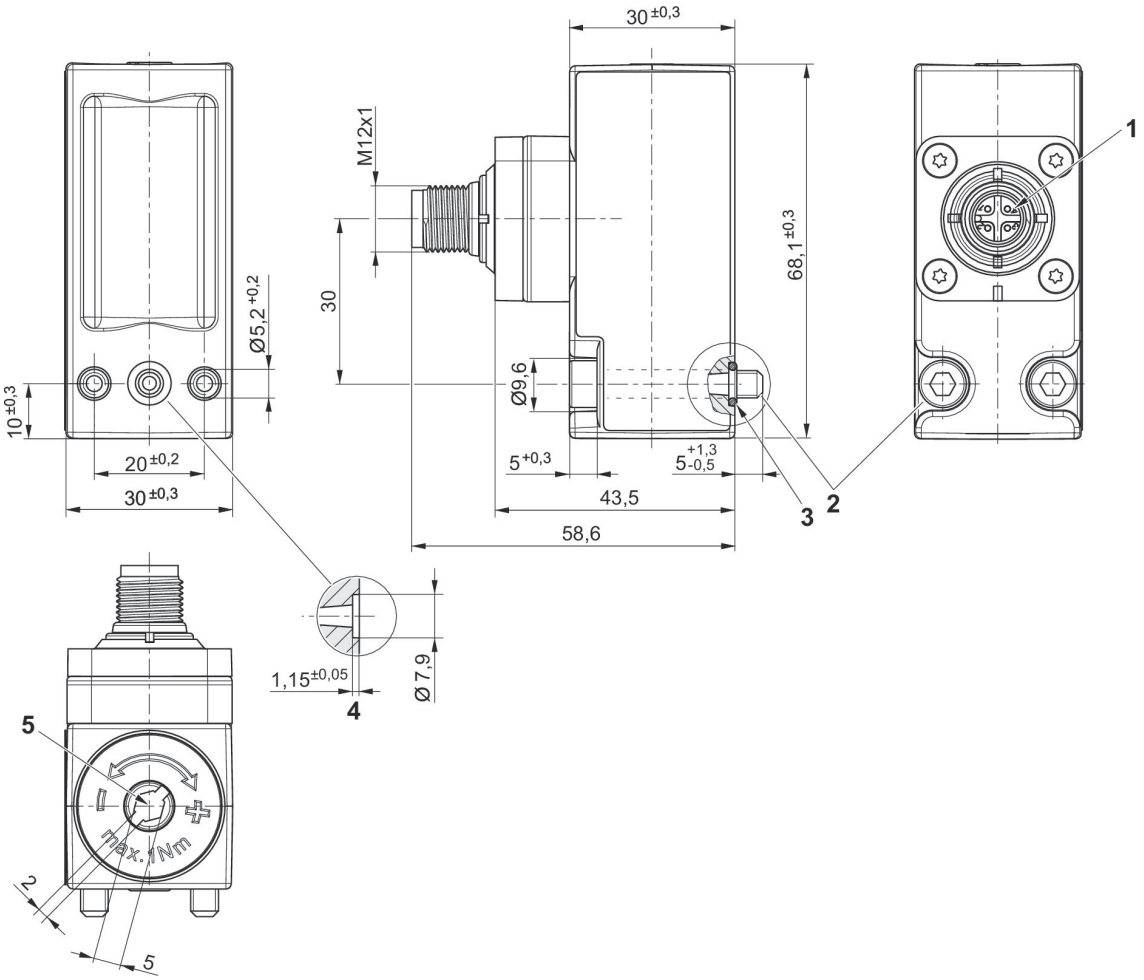
Pressure Switches, Series PM1

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

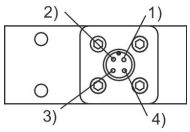
reference cycle: 30/min., reference temperature: +30 °C

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

R412010720

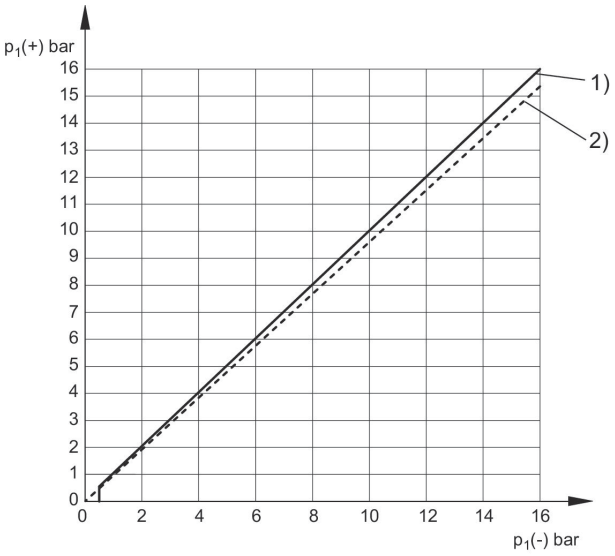
Pin assignments

M12x1



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

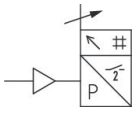
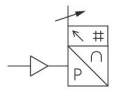
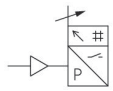
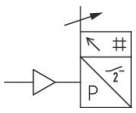
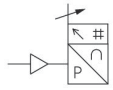
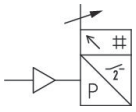
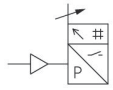
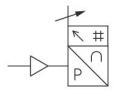
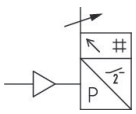
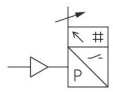
Differential switching pressure characteristic curve (0,2 - 16 bar)

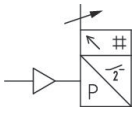
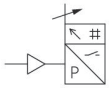


p1 (+) = upper switching pressure with increasing pressure
p1 (-) = lower switching pressure with decreasing pressure
1) Rising
2) Falling

Pressure sensor, Series PE5, push-in fitting

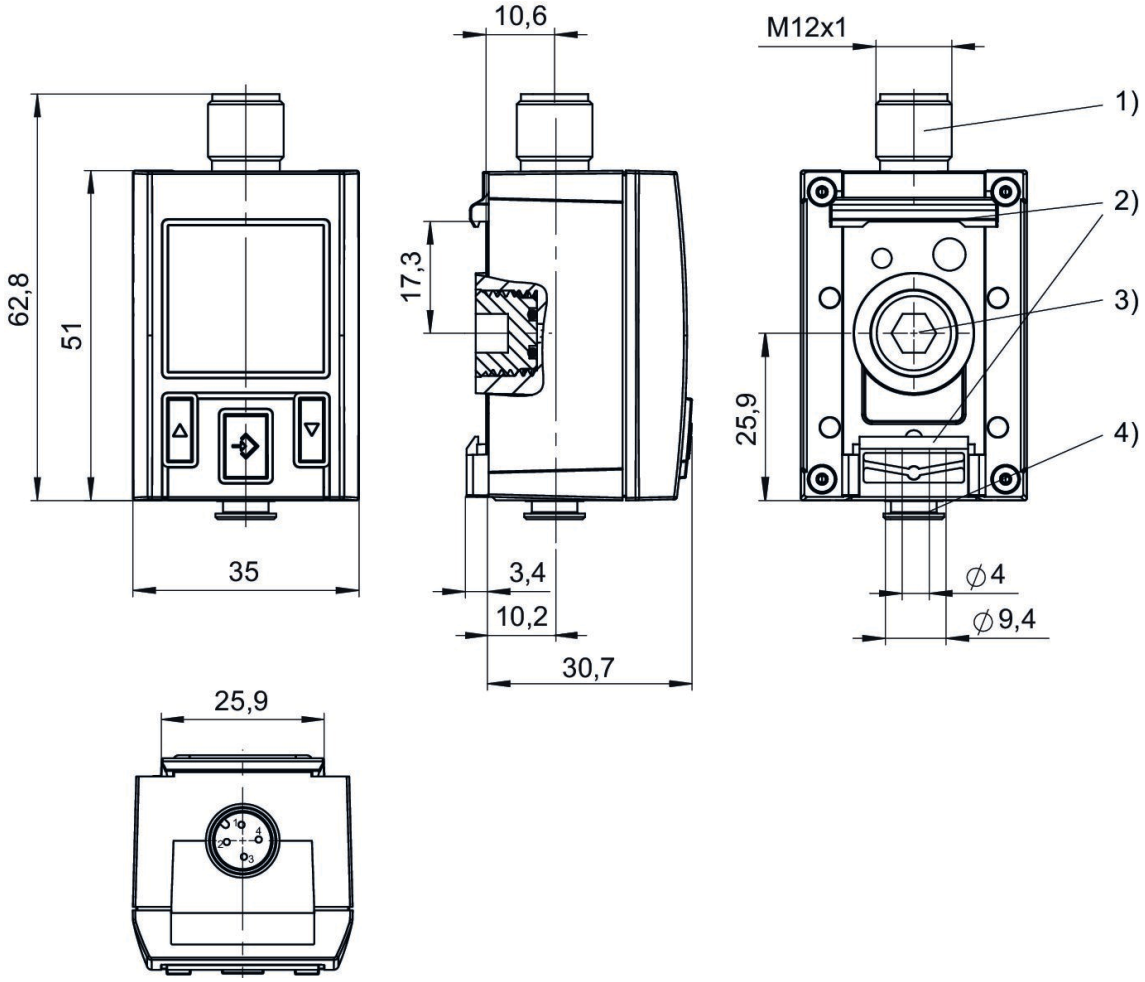
Certificates: CE declaration of conformity, cULus, RoHS, Conforms with REACH, Free of substances that impair surface wetting in the coating process
Electrical connection 2, type: Plug
Electrical connection 2, thread size: M12x1
Electrical connection 2, number of poles: 4-pin
Ambient temperature min./max.: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

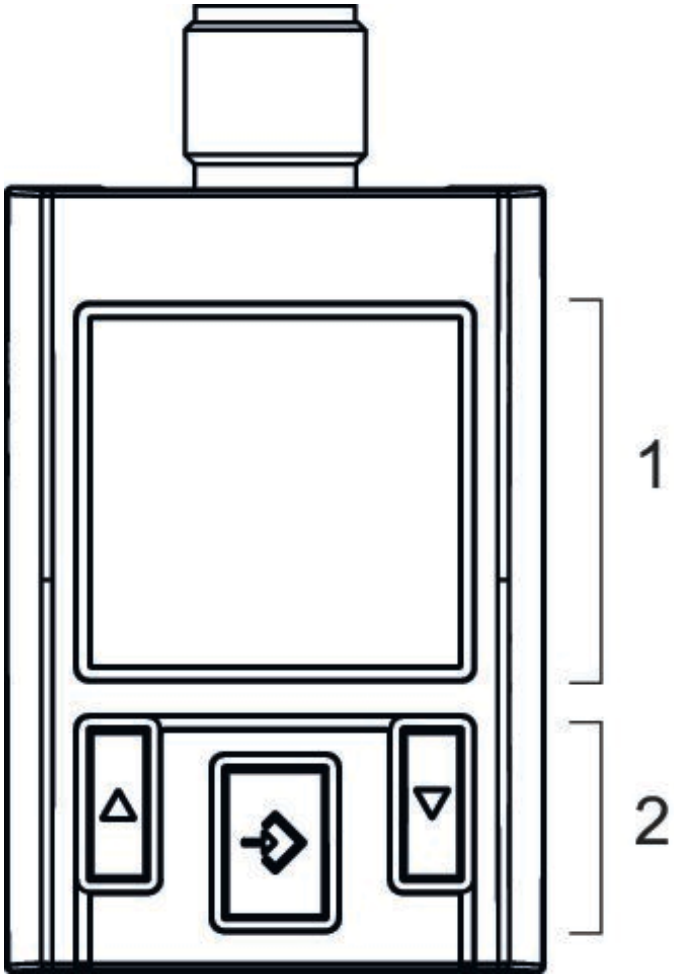
Hysteresis	Part No.
adjustable	R412010761
adjustable	R412010769
adjustable	R412010775
adjustable	R412010763
adjustable	R412010771
adjustable	R412010765
adjustable	R412010777
adjustable	R412010773
adjustable	R412010767
adjustable	R412010779
adjustable	R412010782
adjustable	R412010806

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

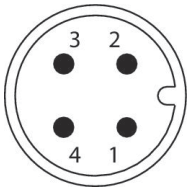


1) LCD display
2) Control panel with 3 buttons

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

Pin assignments

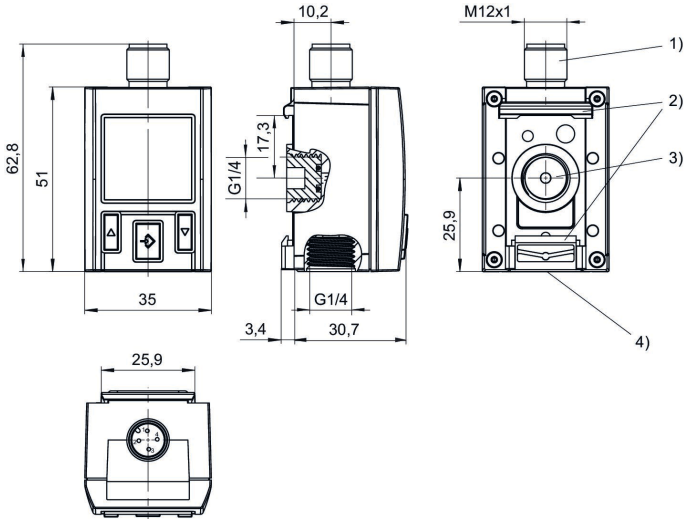
M12x1



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

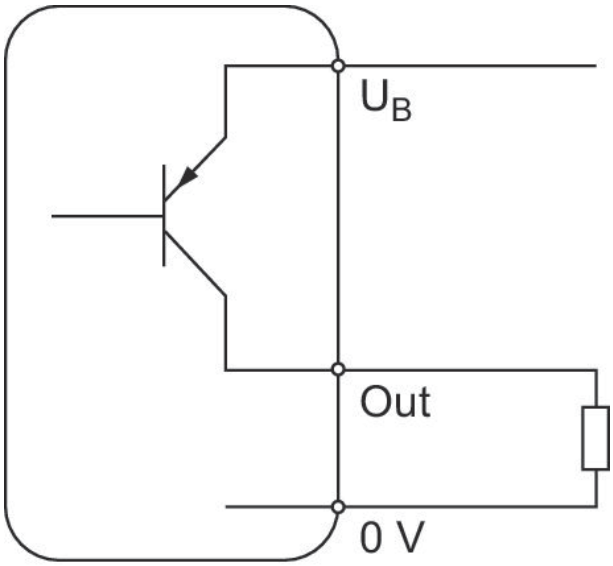
Dimensions



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

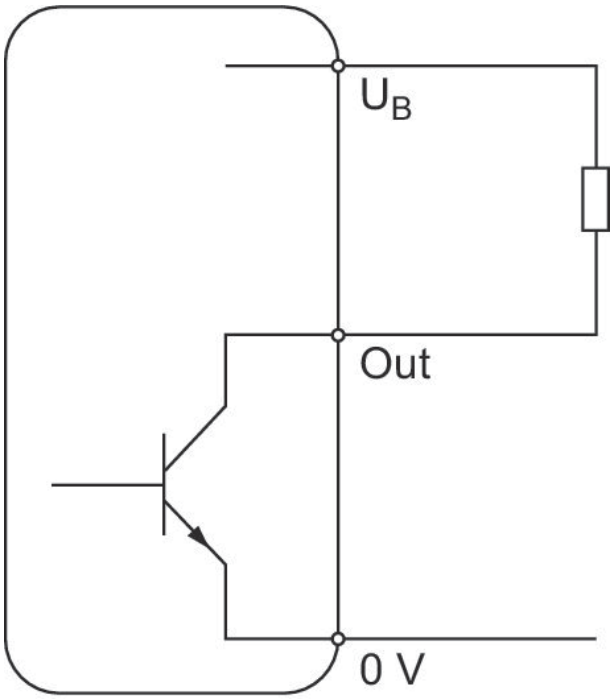
Operating mode

PNP



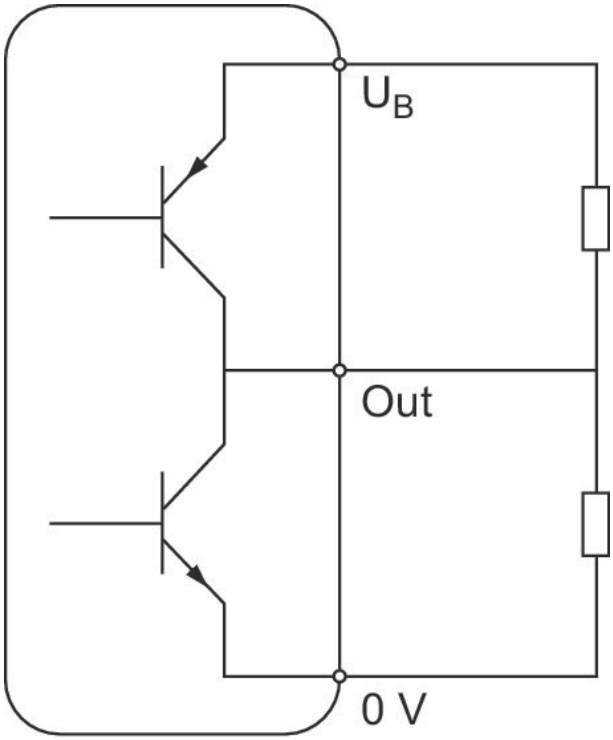
Operating mode

NPN



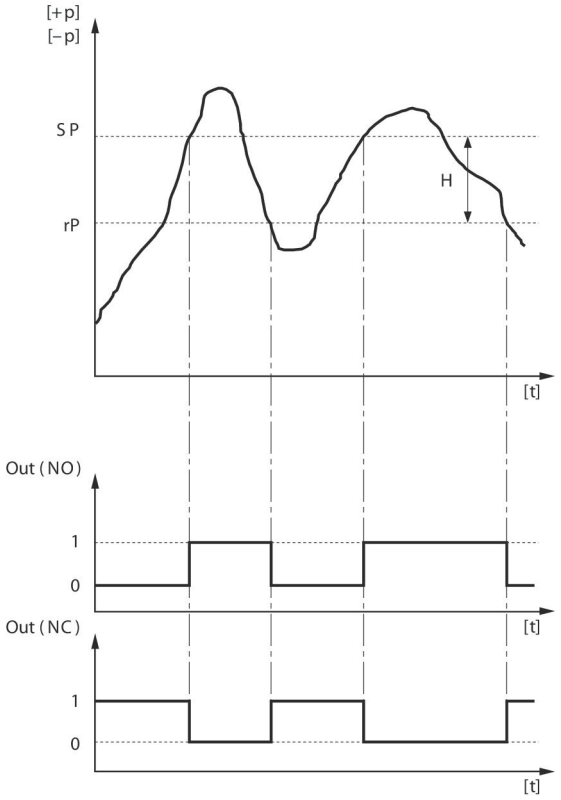
Operating mode

Push-pull



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

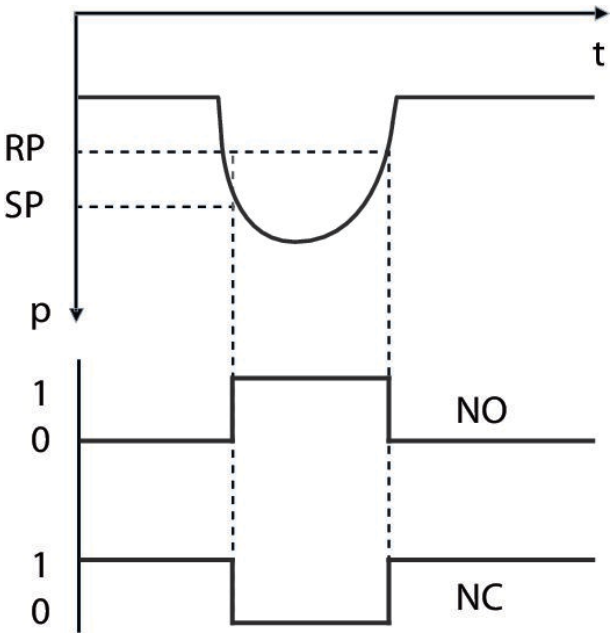
In case of overpressure



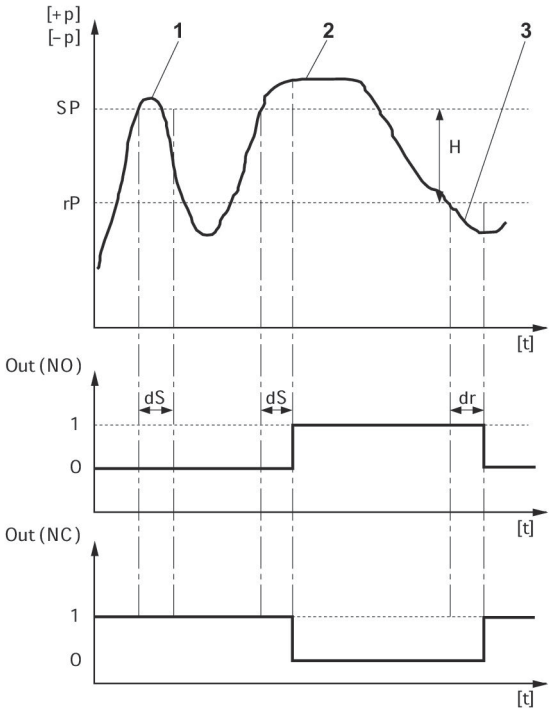
H: Hysteresis
SP = switching point RP = resetting point
Out (NC): switch output, break contact Out (NO): switch output, make contact

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

In case of underpressure

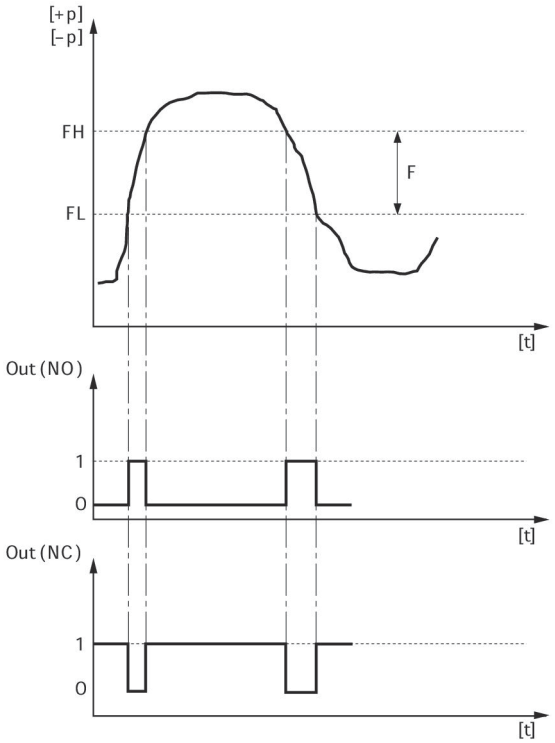


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



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

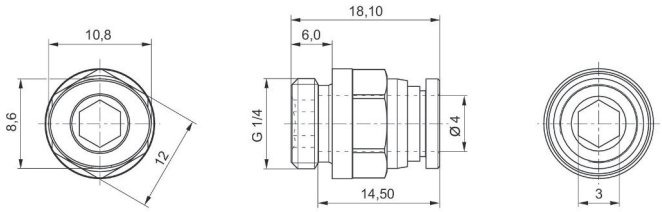
QR1-S-RPN standard series

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 1/4	Ø 4	10	Brass	2121004140
G 1/4	Ø 6	10	Brass	2121006140
G 1/4	Ø 8	10	Brass	2121008140
G 3/8	Ø 6	10	Brass	R412005000
G 3/8	Ø 8	10	Brass	2121008380
G 3/8	Ø 10	10	Brass	2121010380

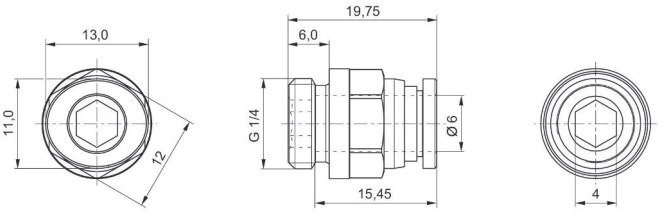
2121004140

Dimensions in mm



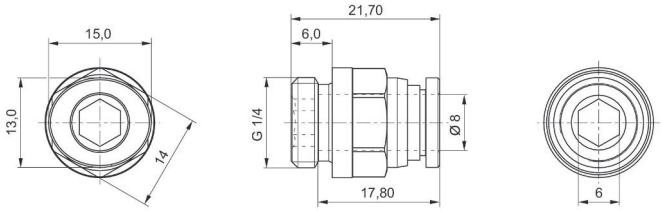
2121006140

Dimensions in mm



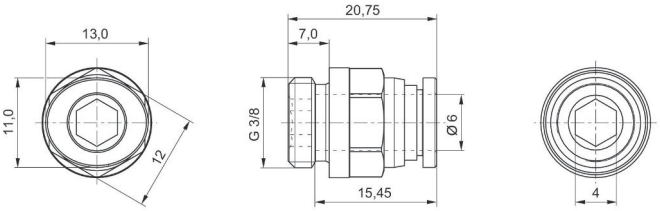
2121008140

Dimensions in mm



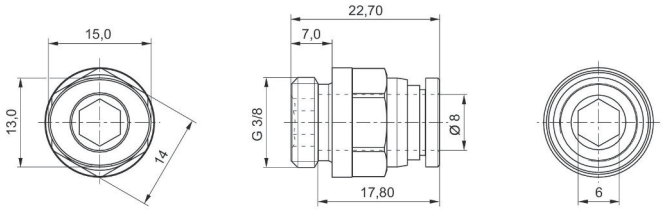
R412005000

Dimensions in mm



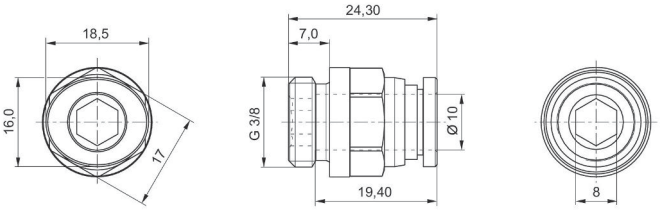
2121008380

Dimensions in mm



2121010380

Dimensions in mm



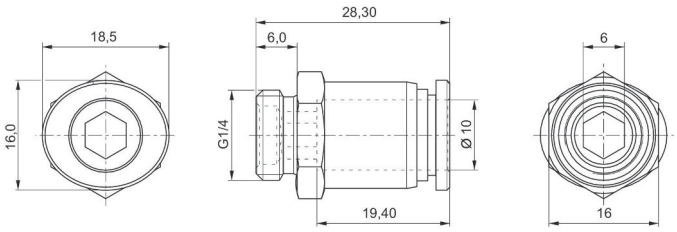
QR1-S-RPN standard series

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.: -20 °C ... 80 °C
Working pressure min./max.: -1 bar ... 16 bar

G	Ø D	Delivery unit [piece]	Material	Part No.
G 1/4	Ø 10	10	Brass	2121010140
G 1/4	Ø 12	10	Brass	2121012140
G 3/8	Ø 12	10	Brass	2121012380
G 3/8	Ø 14	10	Brass	2121014380
G 3/8	Ø16	10	Brass	R412005005

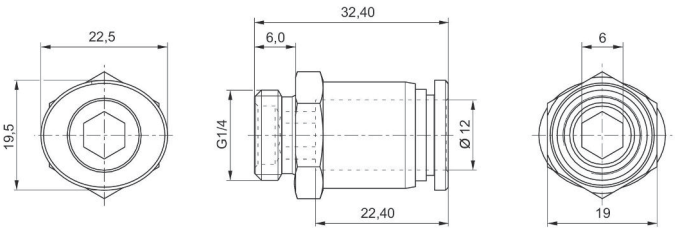
2121010140

Dimensions in mm



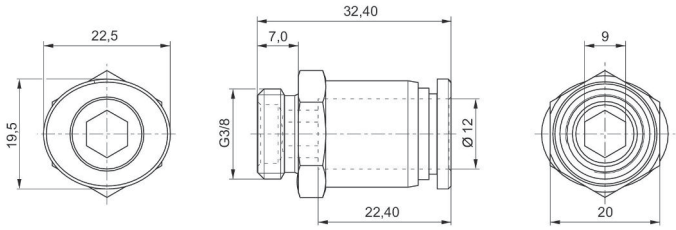
2121012140

Dimensions in mm



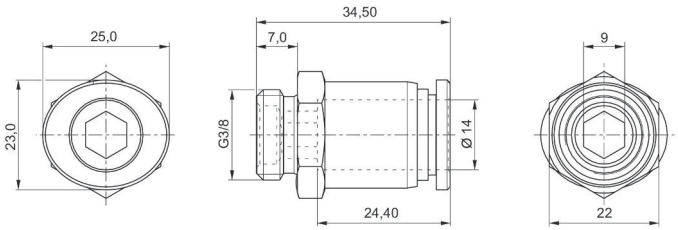
2121012380

Dimensions in mm



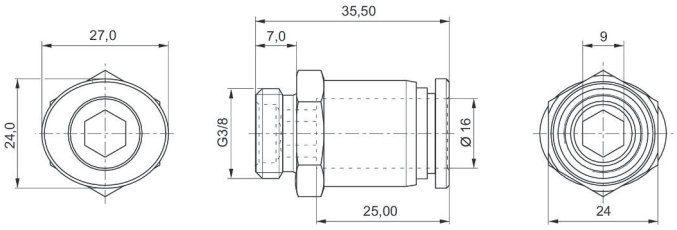
2121014380

Dimensions in mm



R412005005

Dimensions in mm



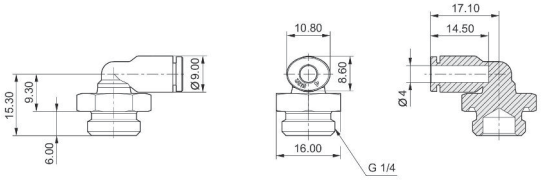
QR1-S-RVT standard series

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 1/4	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
G 3/8	Ø 6	10	Polyamide	R412005092
G 3/8	Ø 8	10	Polyamide	2122008380
G 3/8	Ø 10	10	Polyamide	2122010380
G 3/8	Ø 12	10	Polyamide	2122012380
G 3/8	Ø 14	5	Polyamide	2122014380
G 3/8	Ø16	5	Polyamide	R412005097

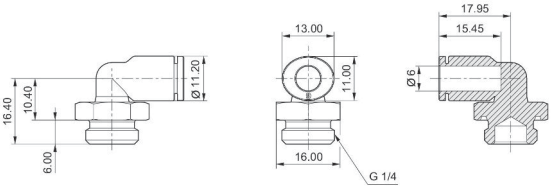
2122004140

Dimensions in mm



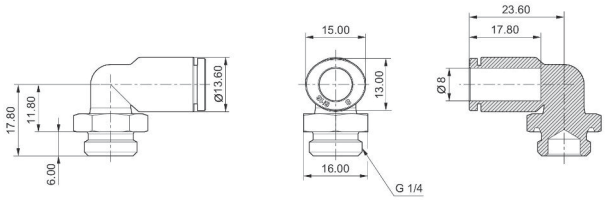
2122006140

Dimensions in mm



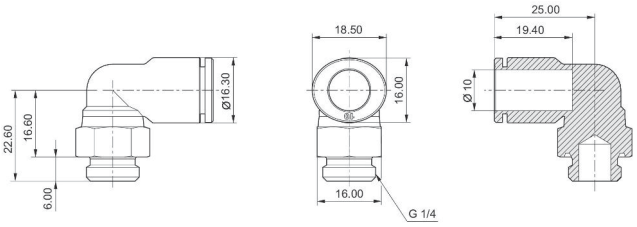
2122008140

Dimensions in mm



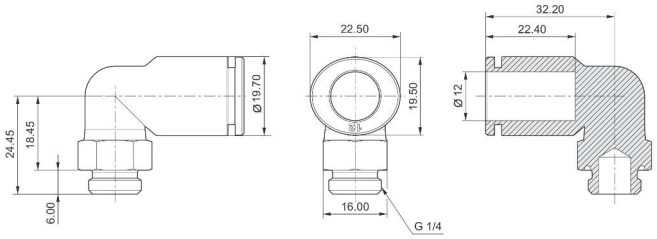
2122010140

Dimensions in mm



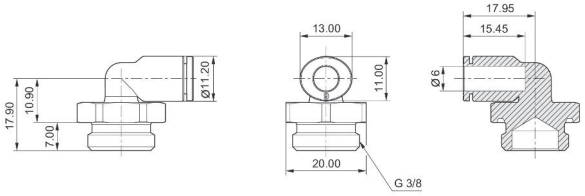
2122012140

Dimensions in mm



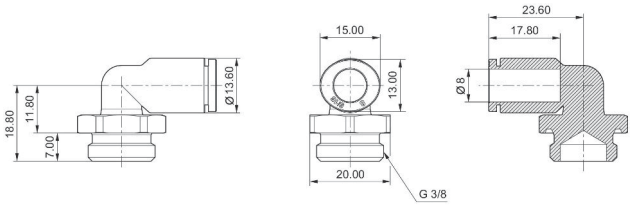
R412005092

Dimensions in mm



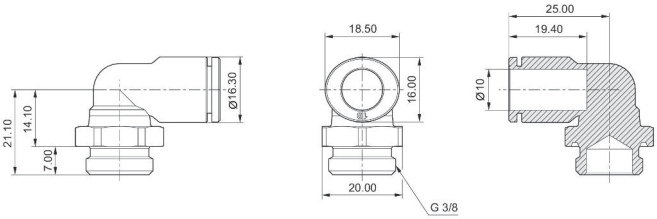
2122008380

Dimensions in mm



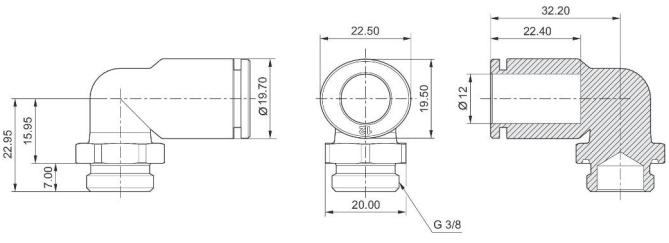
2122010380

Dimensions in mm



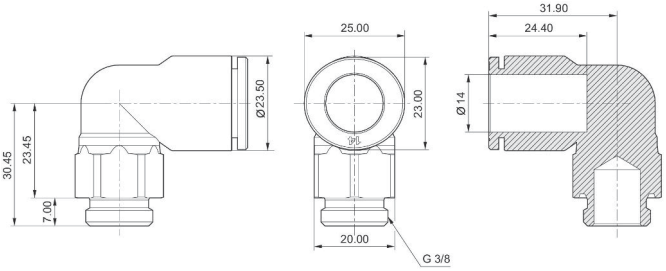
2122012380

Dimensions in mm



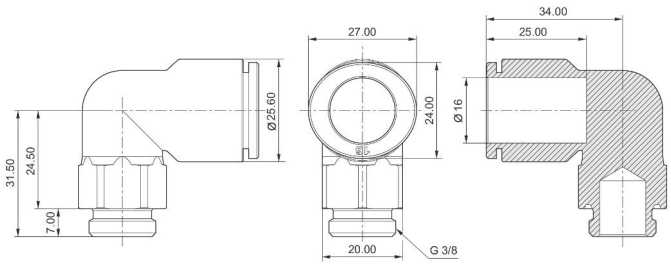
2122014380

Dimensions in mm



R412005097

Dimensions in mm

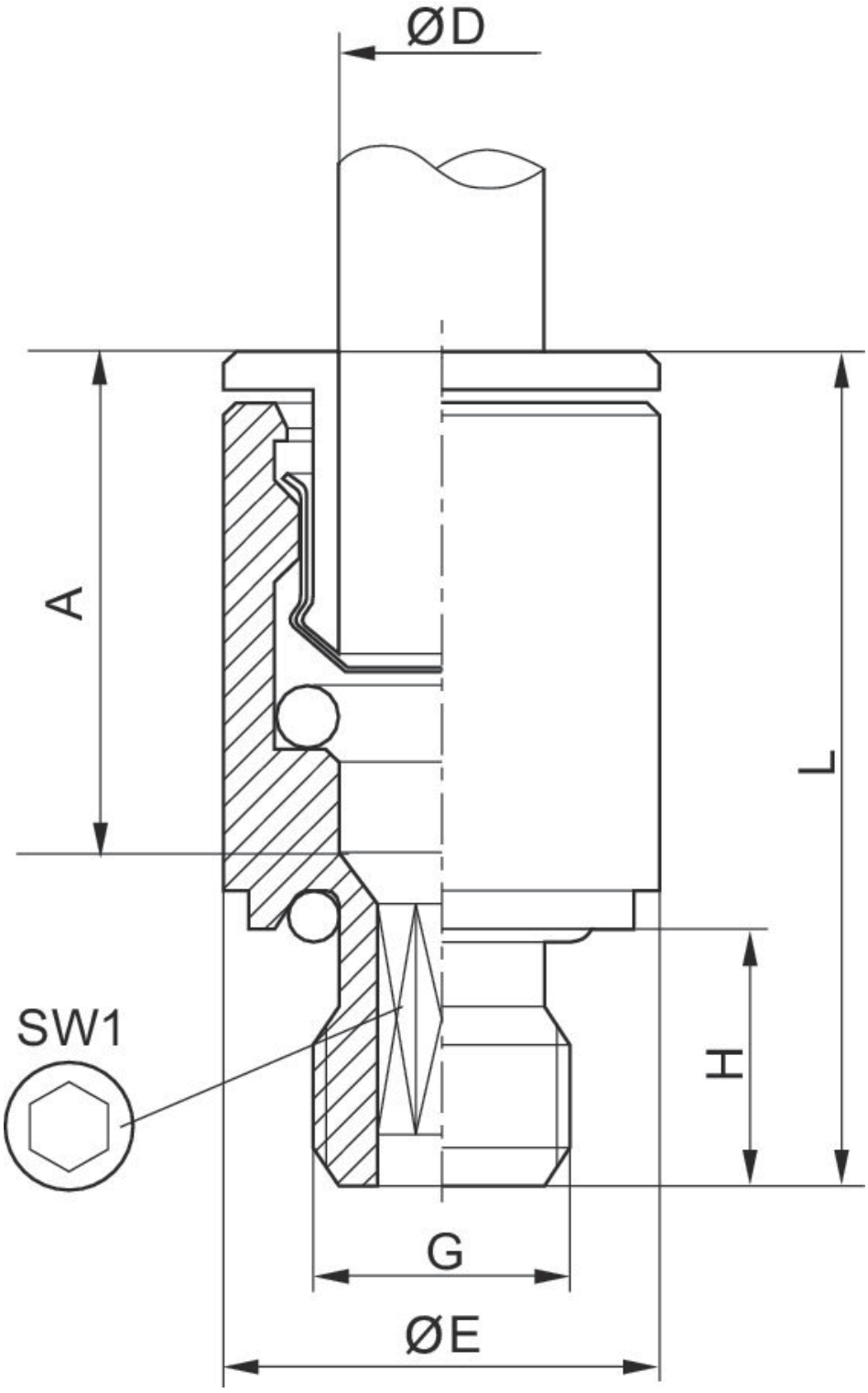


Series QR2-S-RPN standard

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 1/4	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
G 3/8	Ø 8	10	Brass	1823373050
G 3/8	Ø 10	10	Brass	1823373051
G 3/8	Ø 12	5	Brass	1823373052
G 3/8	Ø 14	5	Brass	1823373053

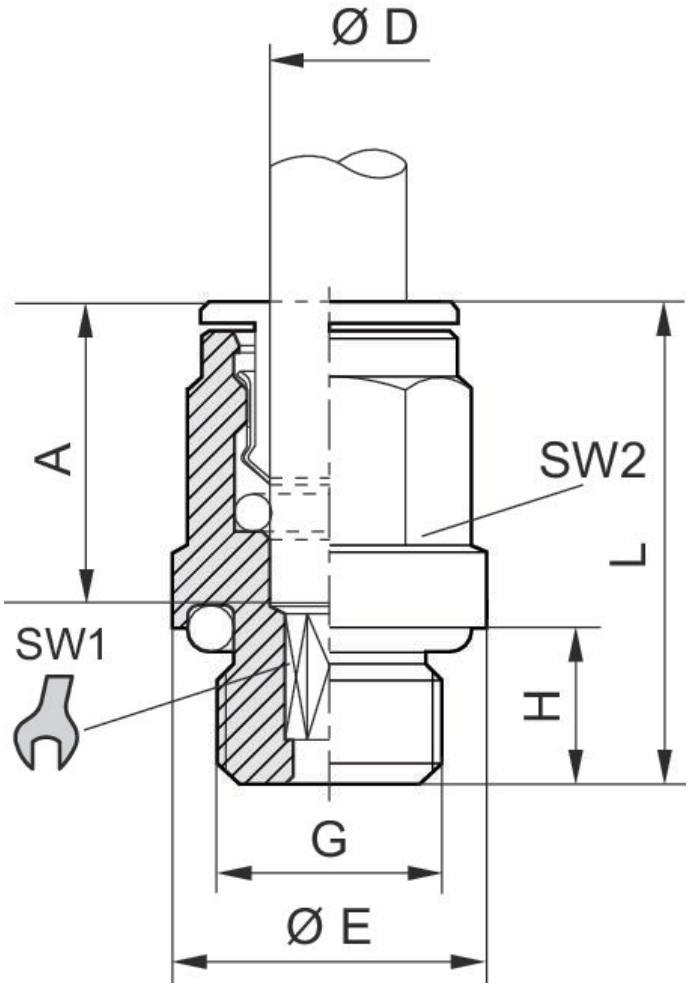
Dimensions



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

1823373045, 1823373046, 1823373047, 1823373048, 1823373049, 1823391809, 1823373050, 1823373051, 1823373052, 1823373053

Dimensions

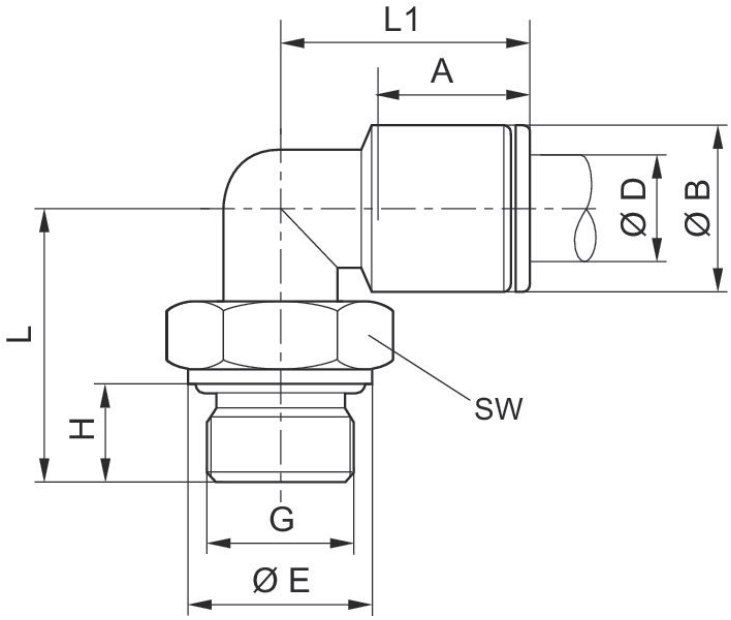


Series QR2-S-RVT standard

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 1/4	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
G 3/8	Ø 8	5	Brass	1823391716
G 3/8	Ø 10	5	Brass	1823391717
G 3/8	Ø 12	5	Brass	1823391838
G 3/8	Ø 14	5	Brass	1823391839
G 3/8	Ø16	1	Brass	R412010182

Dimensions



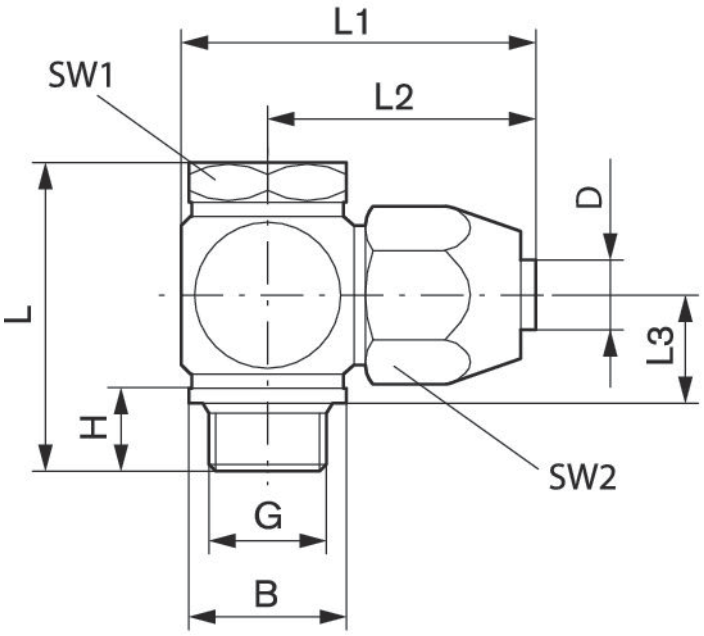
Part No.	Port D	Port G	ØB	ØE	H	L	L1	A Insertion depth	SW
1823391709	Ø 4	M5	9	8	4	14.5	19	14	9
1823391889	Ø 6	M5	11	8	4	14.5	21	16	9
1823391886	Ø 6	M7	11	10	6	16.5	19.5	16	9
1823391710	Ø 4	G 1/8	9	13	6	20	19	15	13
1823391711	Ø 6	G 1/8	11	13	6	20	21	16	13
1823391712	Ø 8	G 1/8	13	13	6	20	24	18	13
R412007687	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
G 3/8	Ø 8	2	Aluminum	1823391296
G 3/8	Ø 13	2	Aluminum	R412007839

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

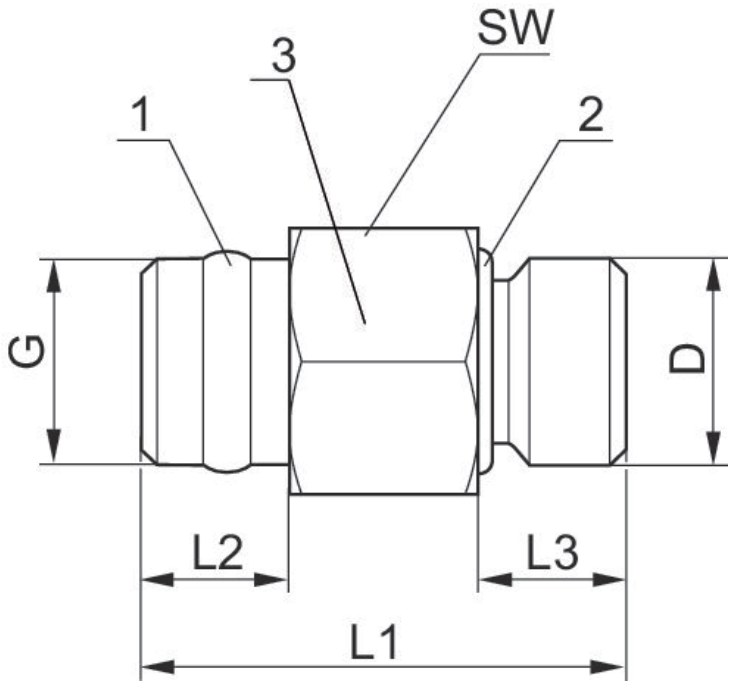
Connection D = inside diameter of the tubing to be used

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

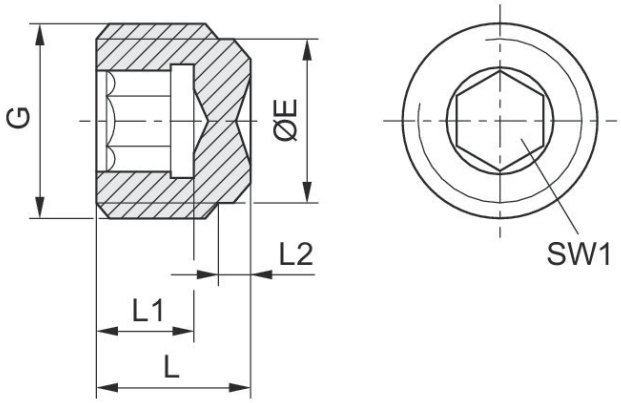
Part No.	Port G	Port D	L1	L2	L3	SW
R412010015	G 1/4	G 1/8	30	10	8.5	17
R412010016	G 1/4	G 1/4	30	10	8.5	17

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



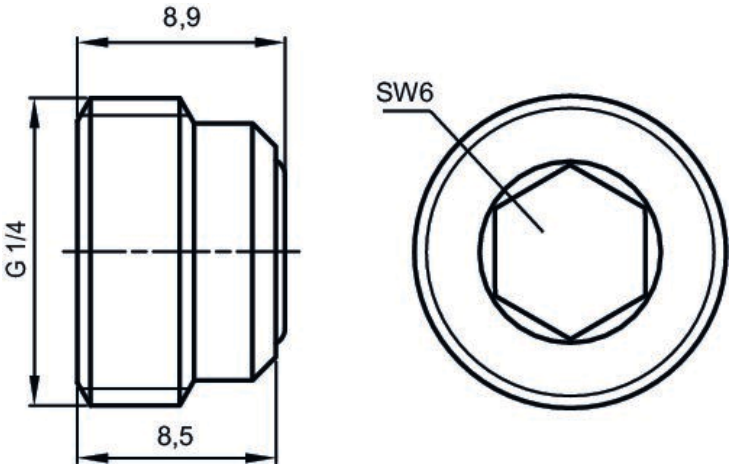
Dimensions in mm

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

Orifice plugs

Type	Delivery unit [piece]	Material	Part No.
Orifice plugs	10	Polyamide	R412010124

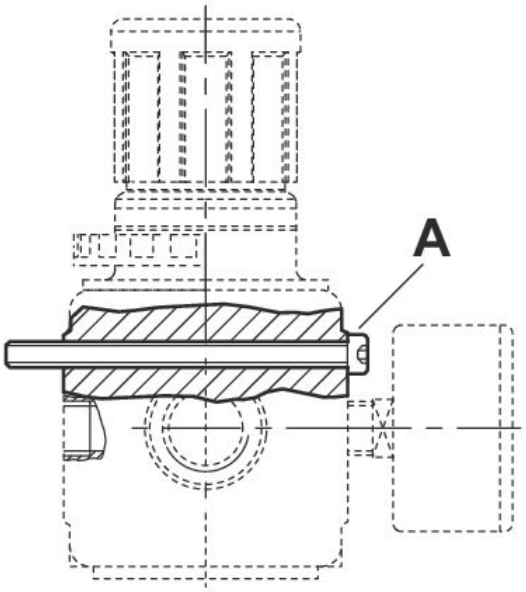
Dimensions



Mounting screws for wall mounting, Series NL2, NL4

Type	Delivery unit [piece]	Material	Weight [kg]	Part No.
DIN 912 - M4x60	10	Steel, chrome-plated	0.006	1823414009
DIN 912 - M5x85	10	Steel, chrome-plated	0.007	1823414014

Dimensions

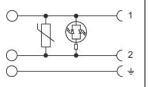
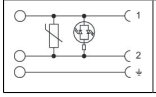


Dimensions in mm

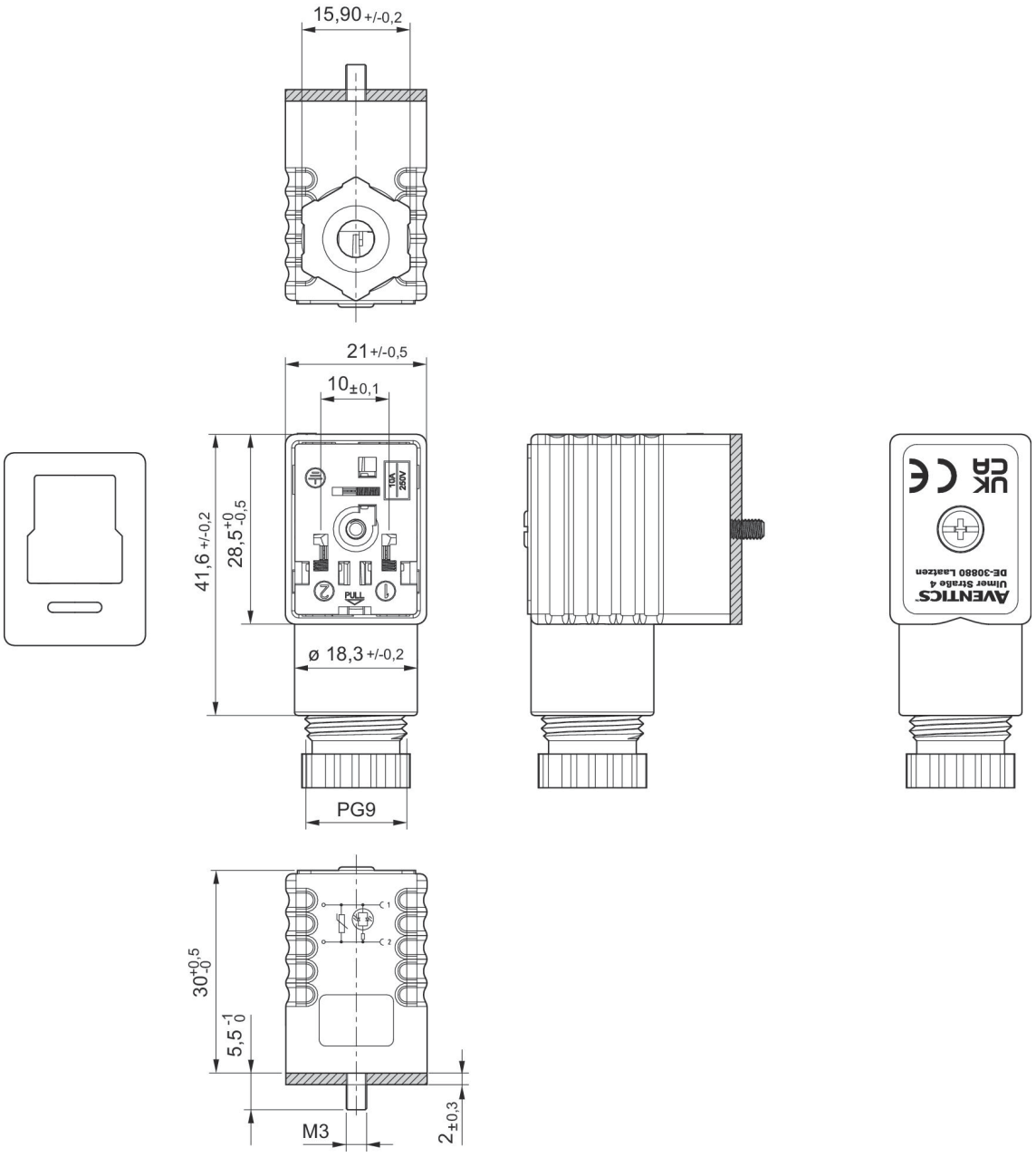
Part No.	usage Series	A
1823414009	NL2	M4x60
1823414014	NL3	M5x85
1823414034	NL4	M4x70

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

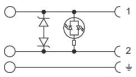
Dimensions



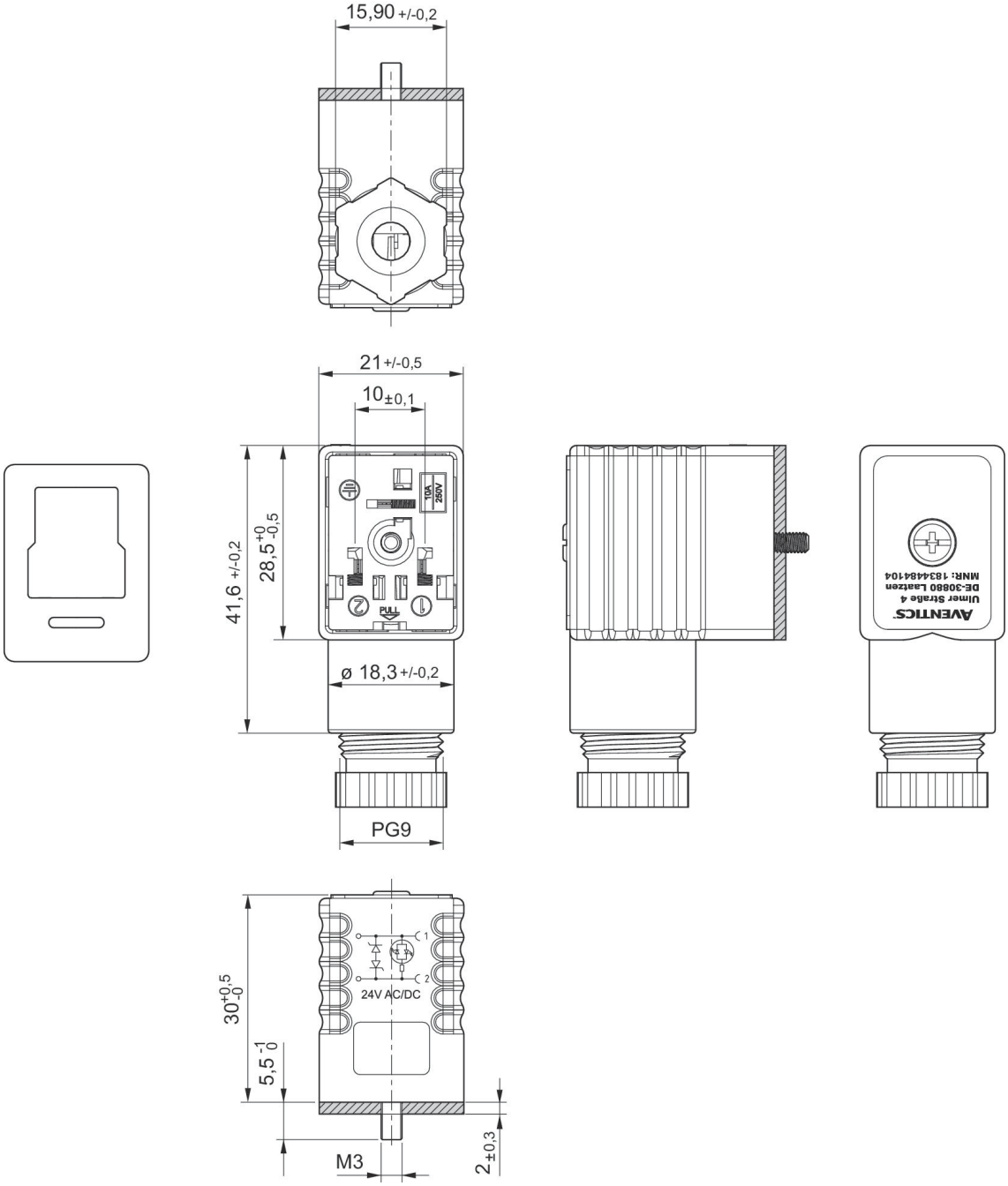
Profile seal

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

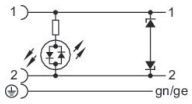
Dimensions



Profile seal

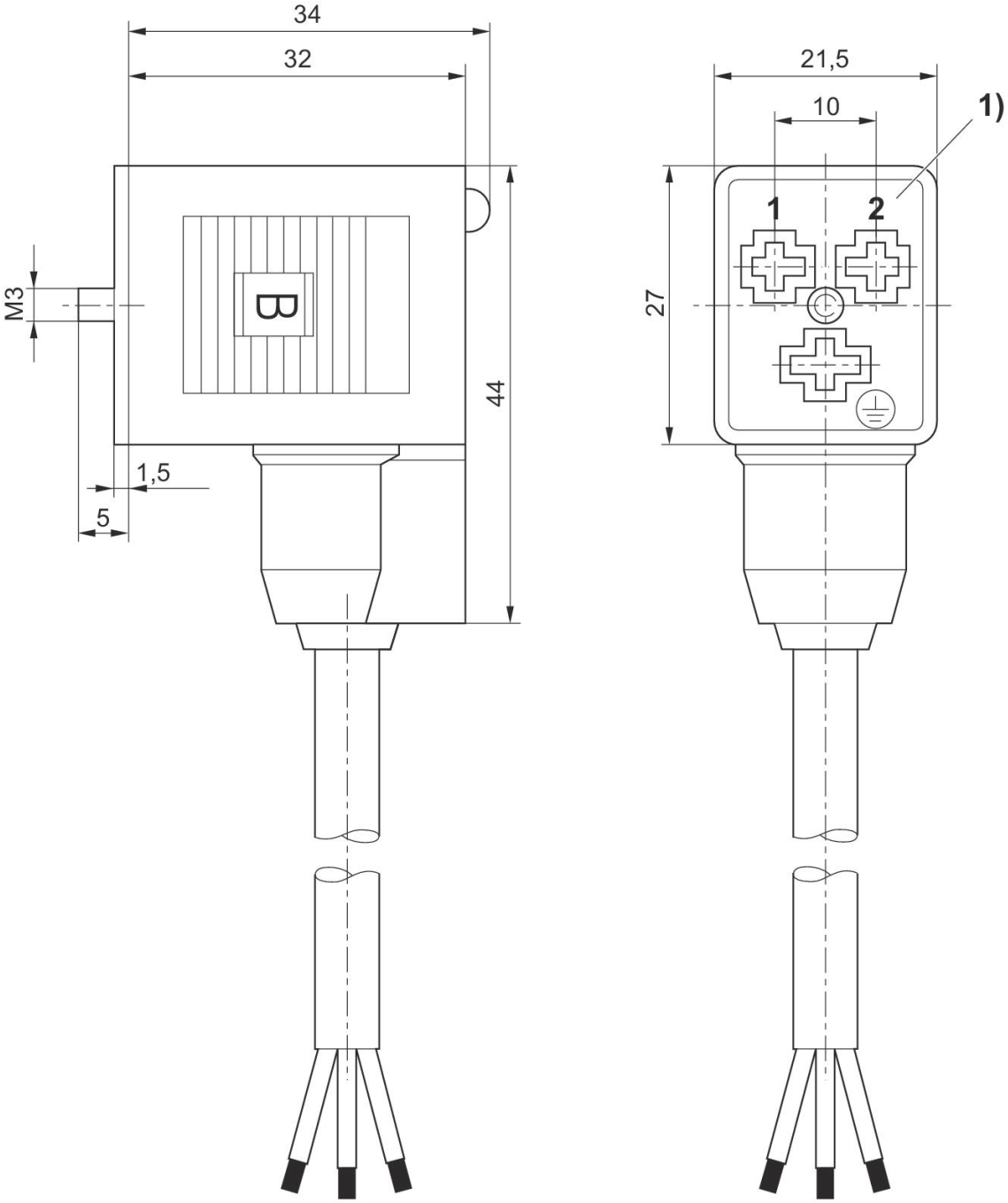
Valve plug connector with cable series CON-VP, Form B, 0° female insert

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

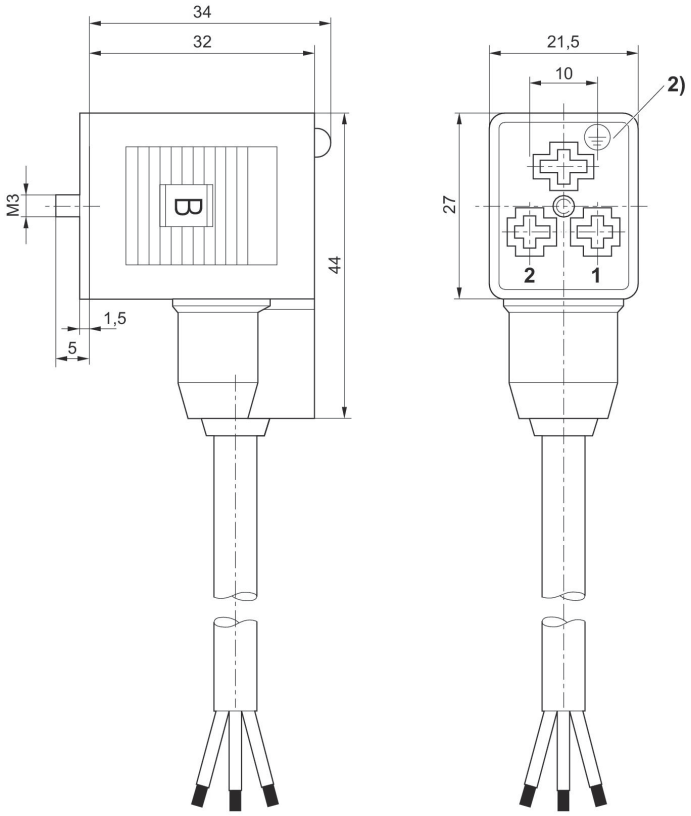
Dimensions



1) 0° female insert

1834484153, 1834484155

Dimensions



2) 180° female insert

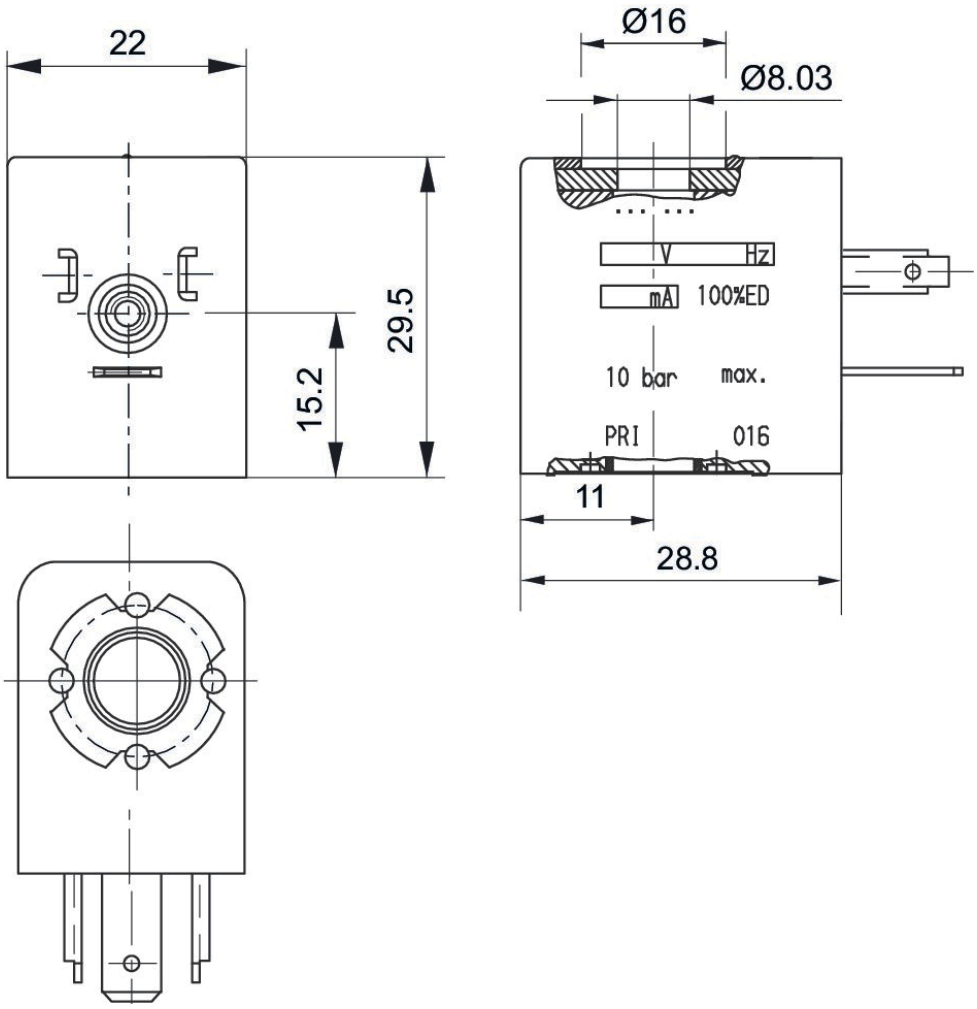
Coil, Series CO1

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



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management, proportional pressure control valves

Visit us: **www.Emerson.com/aventics**
Your local contact: **Emerson.com/contactus**

Emerson.com
Facebook.com/EmersonAutomationSolutions
LinkedIn.com/company/Emerson-Automation-Solutions
Twitter.com/EMR_Automation

EMERSON.

CONSIDER IT SOLVED®