

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 S11 Silencers..... | 128 |
| External thread - Sintered bronze | |
| AVENTICS Series S11 Silencers..... | 129 |
| External thread - Stainless Steel | |
| AVENTICS Series S11 Silencers..... | 131 |
| External thread - Sintered bronze | |
| AVENTICS Series S11 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

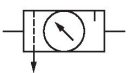
Parts: Air preparation units

Ambient temperature min./max.: -10 °C ... 60 °C

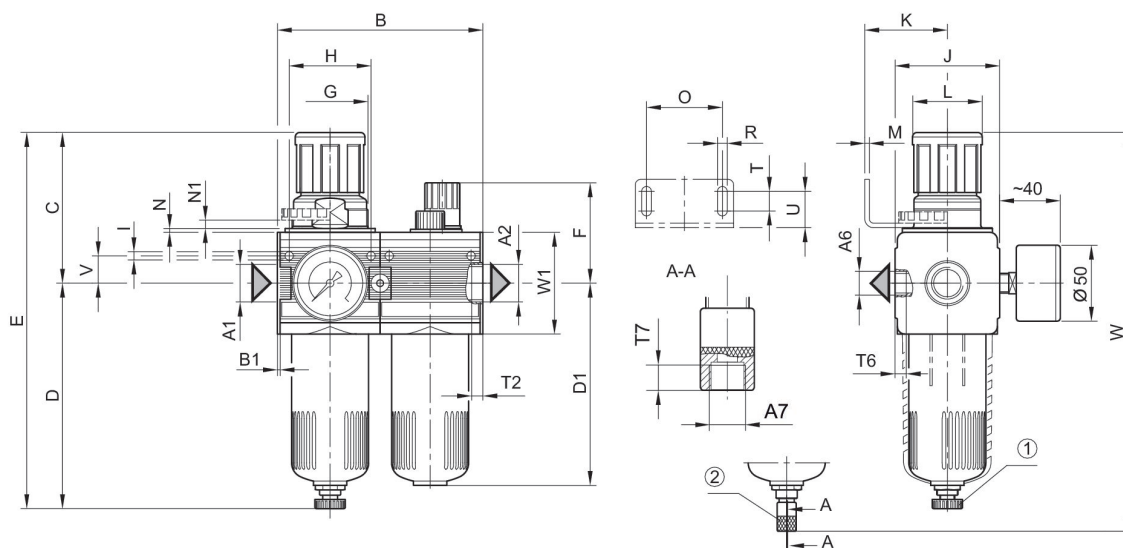
Working pressure min./max.: 2 bar ... 16 bar



| | Port | Condensate drain | Reservoir | Min. regulation range [bar] | Max. regulation range [bar] | Protective guard | Part No. |
|--|-------|--|---|-----------------------------|-----------------------------|----------------------|------------|
| | G 1/4 | semi-automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300400 |
| | G 1/4 | fully automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300403 |
| | G 1/4 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300401 |
| | G 1/4 | fully automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300404 |
| | G 1/4 | semi-automatic, open without pressure | reservoir, metal, with inspection glass | 0.5 | 10 | | 0821300402 |
| | G 1/4 | fully automatic, open without pressure | reservoir, metal, with inspection glass | 0.5 | 10 | | 0821300405 |
| | G 3/8 | semi-automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300430 |
| | G 3/8 | fully automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300433 |
| | G 3/8 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300431 |

| | Port | Condensate drain | Reservoir | Min. regulation range [bar] | Max. regulation range [bar] | Protective guard | Part No. |
|--|-------|---------------------------------------|---|-----------------------------|-----------------------------|------------------|------------|
|  | G 3/8 | semi-automatic, open without pressure | 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 |

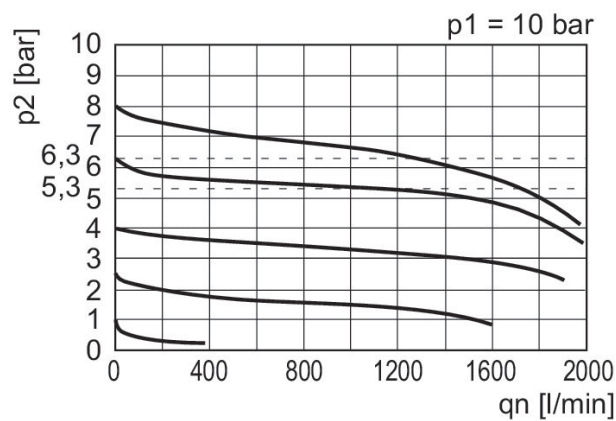
| Part No. | V | W | W1 |
|------------|------|-------|----|
| 0821300400 | 12.3 | 205.5 | 52 |
| 0821300403 | 12.3 | 205.5 | 52 |
| 0821300401 | 12.3 | 205.5 | 52 |
| 0821300404 | 12.3 | 205.5 | 52 |
| 0821300402 | 12.3 | 205.5 | 52 |
| 0821300405 | 12.3 | 205.5 | 52 |
| 0821300430 | 12.3 | 205.5 | 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)



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

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



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

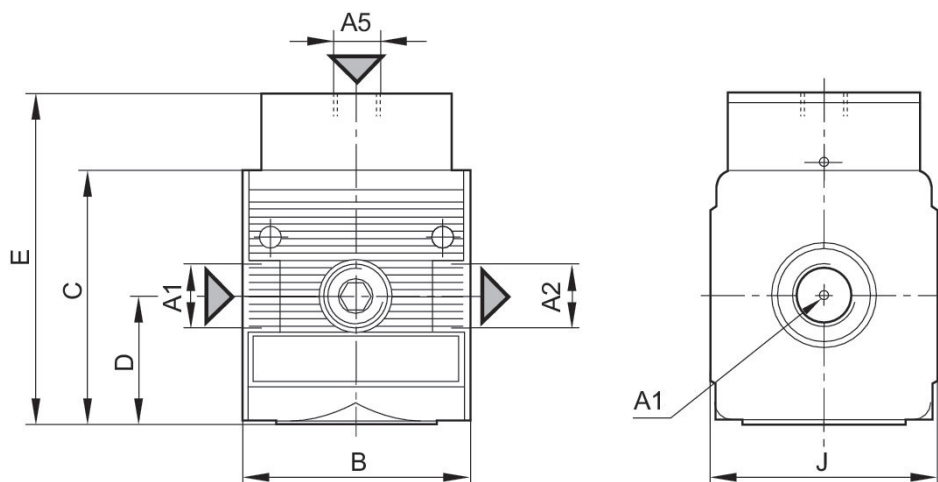
Pressure regulator, Series NL2-RGS

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. regulation range ² [bar] | Max. regulation range ² [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

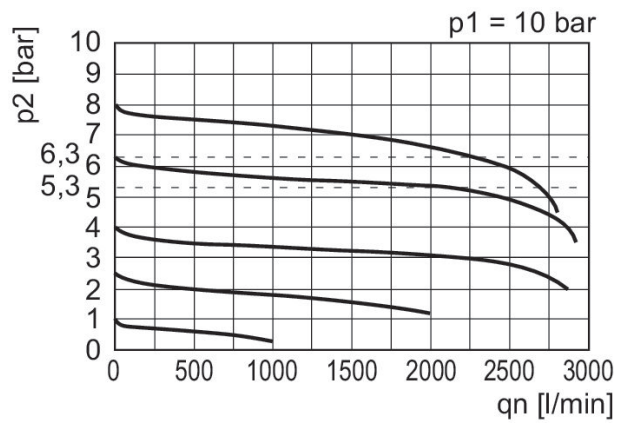


A1 = input A2 = output
 A5 = Control pressure connection

Dimensions in mm

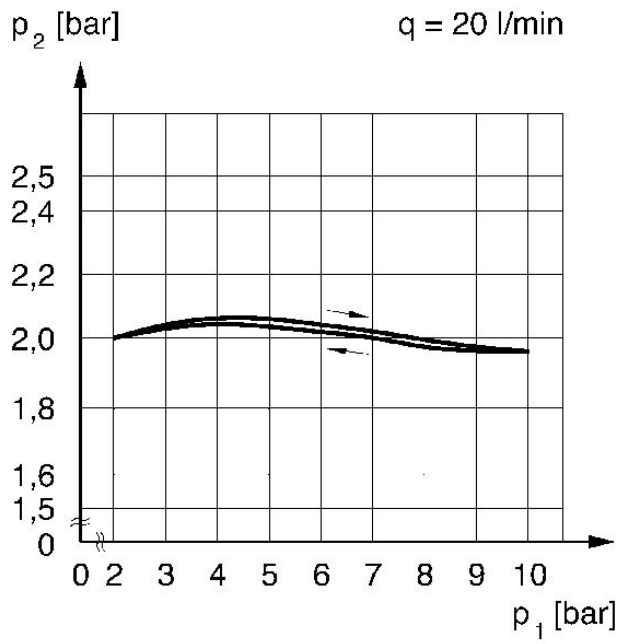
| Part No. | A1 | A2 | A5 | B | C | D | E | J |
|------------|-------|-------|-------|----|------|------|------|----|
| R412004950 | G 1/4 | G 1/4 | G 1/8 | 48 | 52.8 | 26.8 | 68.8 | 47 |
| R412004951 | G 1/4 | G 3/8 | G 1/8 | 48 | 52.8 | 26.8 | 68.8 | 47 |

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

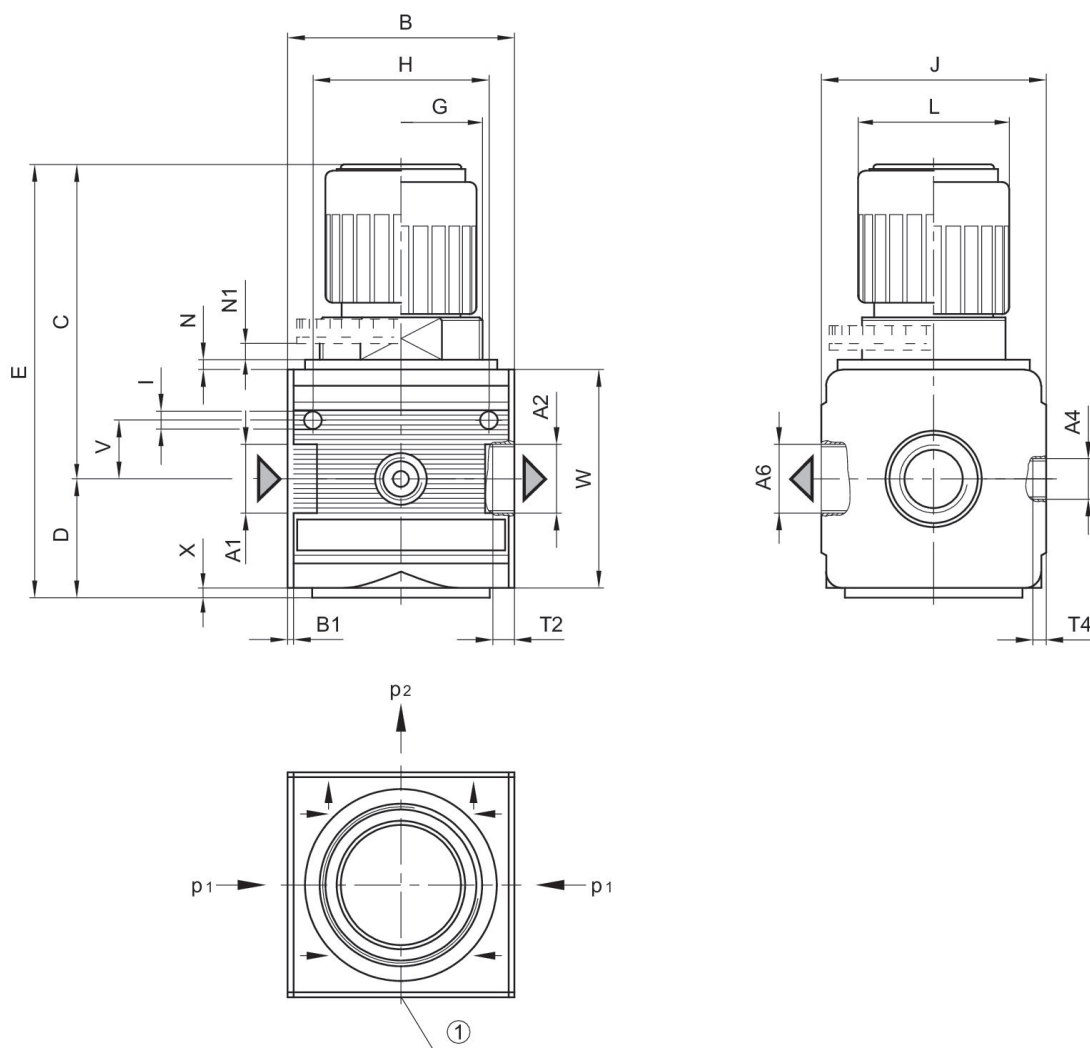
Ambient temperature min./max.: -10 °C ... 60 °C

Working pressure min./max.: 0.5 bar ... 16 bar



| | Port | Nominal flow [l/min] | Working pressure min./max. [bar] | Min. regulation range ² [bar] | Max. regulation range ² [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

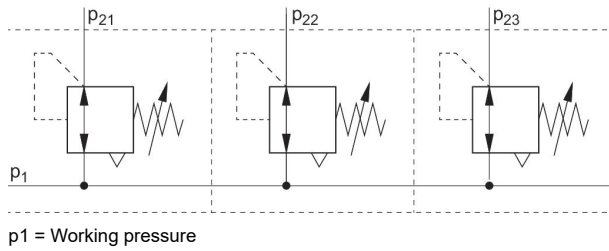
Dimensions in mm

| 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 |

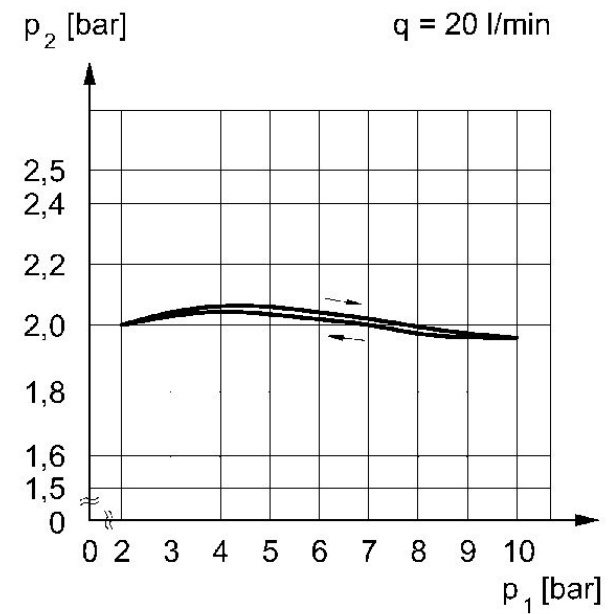
| Part No. | G | H | I | J | L | N | N1 | T2 | T4 |
|------------|---------|----|-----|----|----|---|-----|-----|----|
| 0821302411 | M30x1,5 | 36 | 4.4 | 47 | 28 | 3 | 3.5 | 9.5 | 7 |
| 0821302409 | M30x1,5 | 36 | 4.4 | 47 | 28 | 3 | 3.5 | 9.5 | 7 |
| 0821302408 | M30x1,5 | 36 | 4.4 | 47 | 28 | 3 |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

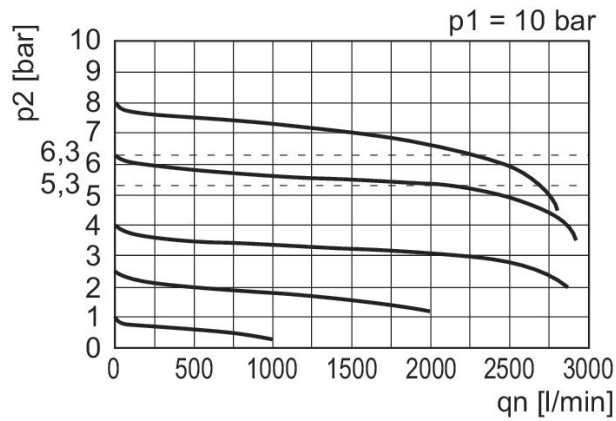


Pressure characteristics curve



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

Flow rate characteristic (setting range p_2 : 0.5 - 10 bar)



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

Pressure regulator, Series NL2-RGS

Activation: Mechanical

Actuating element: Standard pressure regulator

Mounting orientation: Any

: Can be assembled into blocks

: not lockable

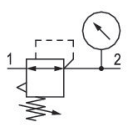
Flow: 2000 l/min

Ambient temperature min./max.: -10 °C ... 60 °C

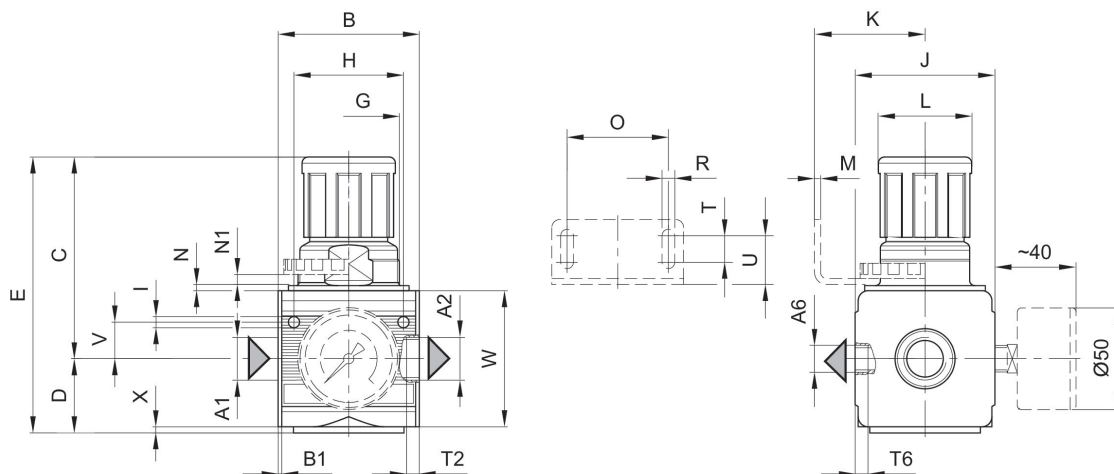
Working pressure min./max.: 0.5 bar ... 16 bar



| | Port | Nominal flow [l/min] | Working pressure min./max. [bar] | Min. regulation range ² [bar] | Max. regulation range ² [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 range ² [bar] | Max. regulation range ² [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

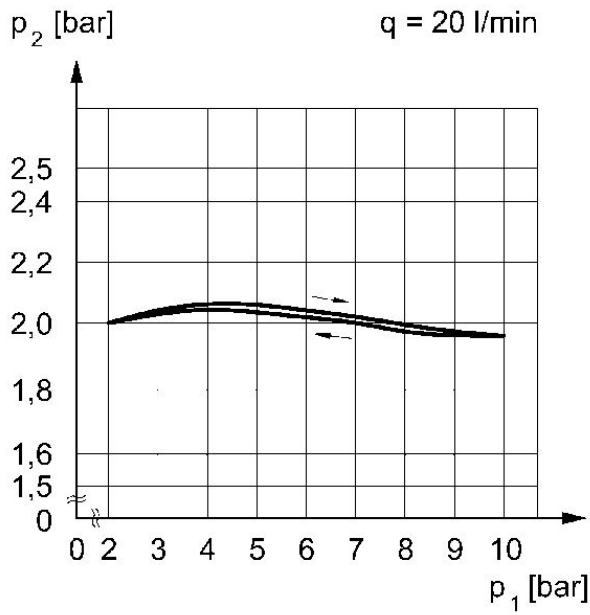
Dimensions in mm

| 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 |

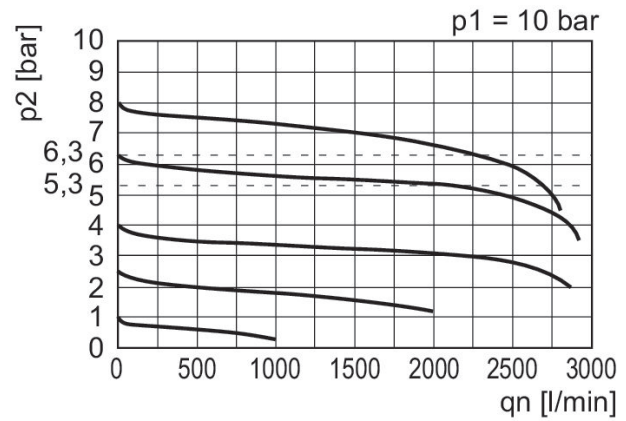
| Part No. | T | T2 | T6 | U | V | W | X |
|------------|---|-----|----|------|------|----|---|
| 0821302404 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302560 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302400 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302451 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 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



p_1 = Working pressure
 p_2 = Secondary pressure
 q = flow rate

Flow rate characteristic (setting range p_2 : 0.5 - 10 bar)



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

Pressure regulator, Series NL2-RGS

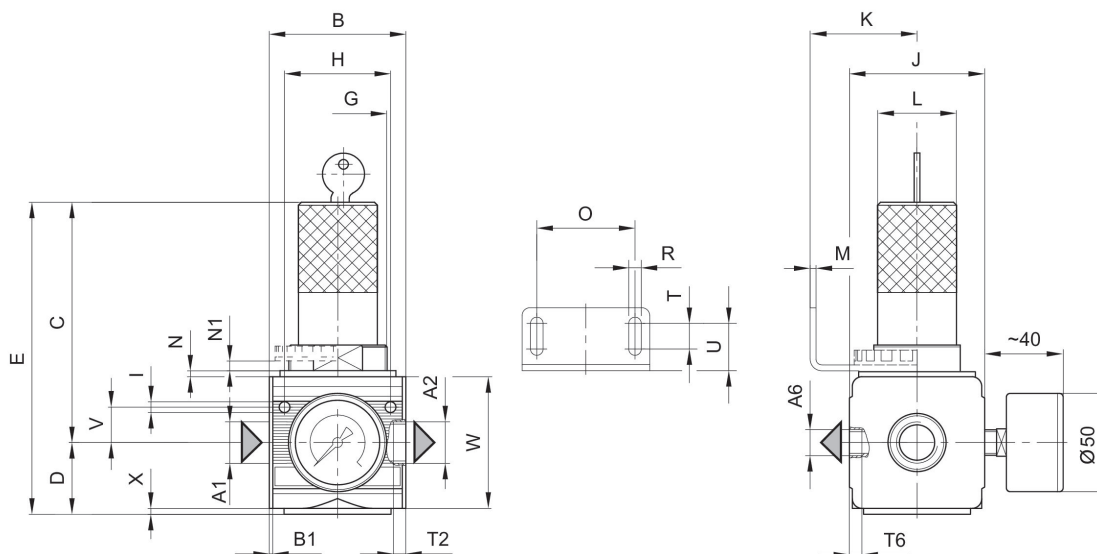
Activation: Mechanical
 Actuating element: Standard pressure regulator
 Mounting orientation: Any
 : Can be assembled into blocks
 : lockable
 : Standard locking, with key
 Flow: 2000 l/min
 Ambient temperature min./max.: -10 °C ... 60 °C
 Working pressure min./max.: 0.5 bar ... 16 bar



| | Port | Nominal flow [l/min] | Working pressure min./max. [bar] | Min. regulation range ² [bar] | Max. regulation range ² [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 range ² [bar] | Max. regulation range ² [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

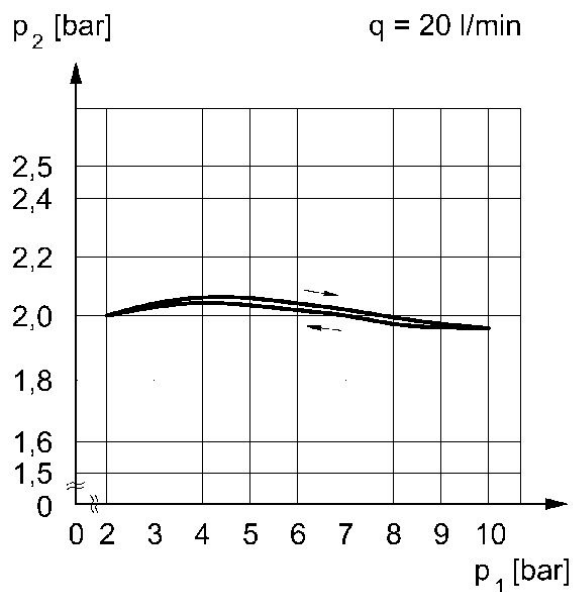
Dimensions in mm

| 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 |

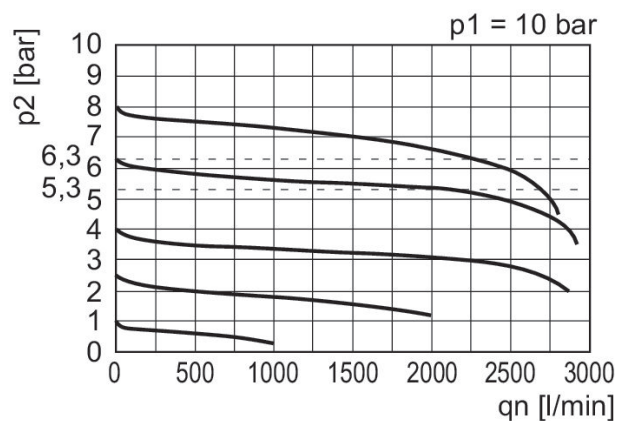
| Part No. | T2 | T6 | U | V | W | X |
|------------|-----|----|------|------|----|---|
| 0821302410 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302561 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302402 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302454 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302455 | 9.5 | 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



p_1 = Working pressure
 p_2 = Secondary pressure
 q = flow rate

Flow rate characteristic (setting range p_2 : 0.5 - 10 bar)

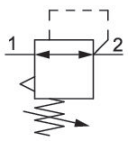
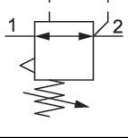


p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

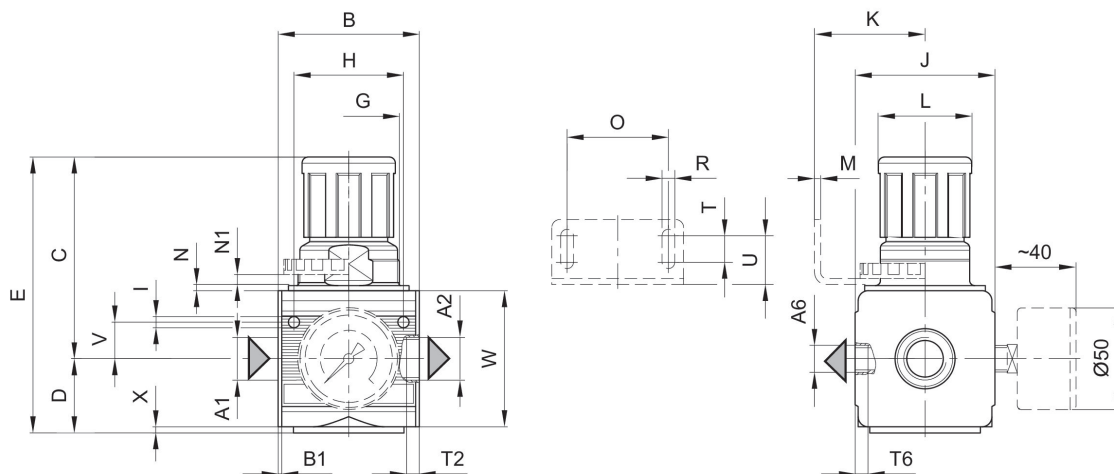
Pressure regulator, Series NL2-RGS

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. regulation range ² [bar] | Max. regulation range ² [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

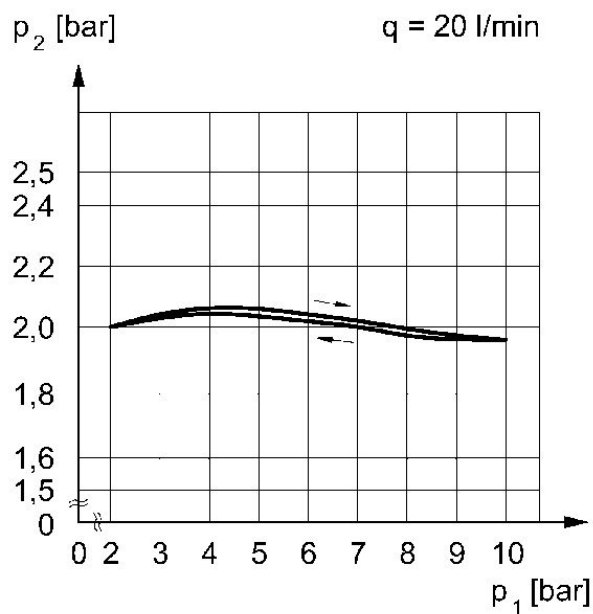
Dimensions in mm

| 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 |

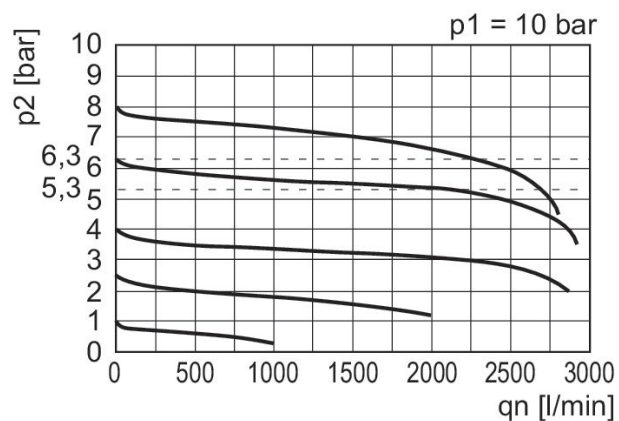
| Part No. | R | T | T2 | T6 | U | V | W | X |
|------------|-----|---|-----|----|------|------|----|---|
| 0821302107 | 5.4 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| R412007613 | 5.4 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |

Pressure characteristics curve



p_1 = Working pressure
 p_2 = Secondary pressure
 q = flow rate

Flow rate characteristic (setting range p_2 : 0.5 - 10 bar)



p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = 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

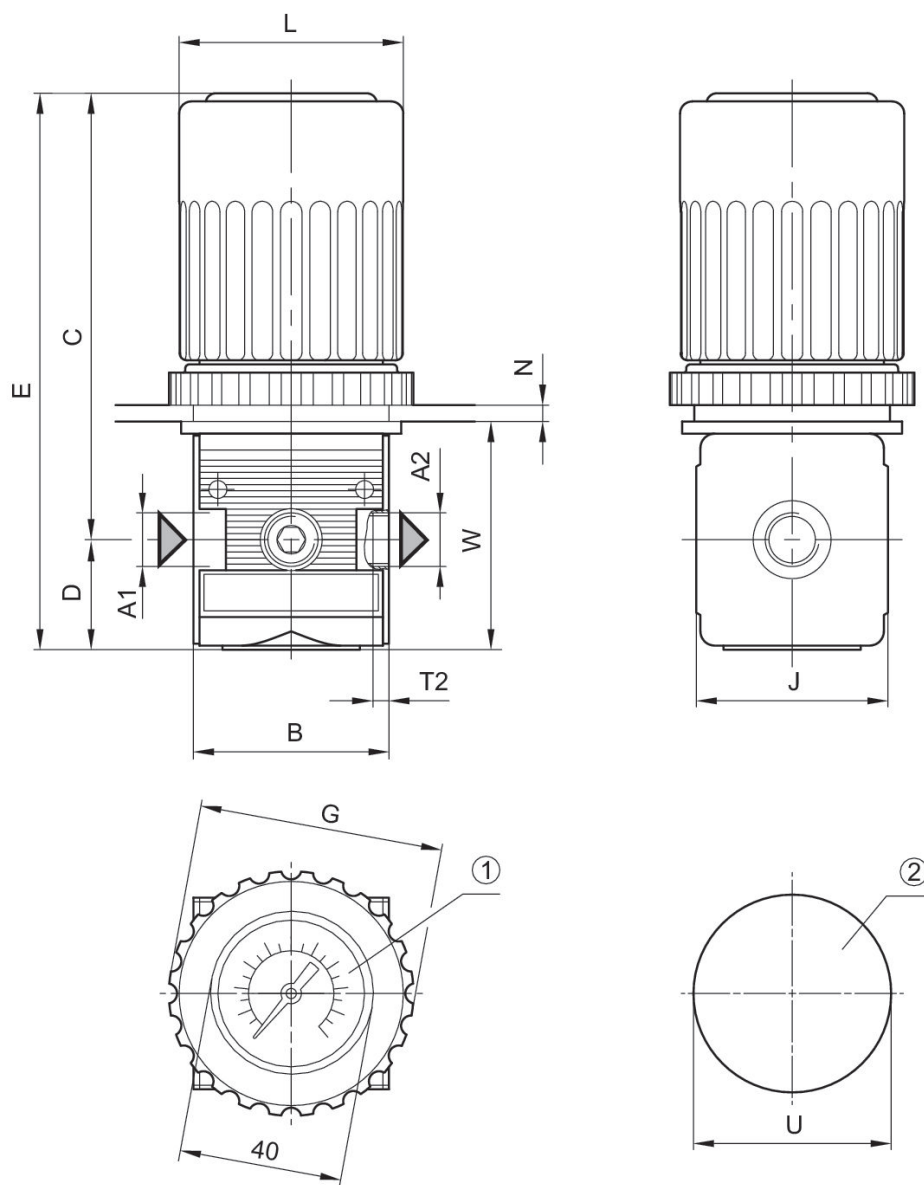
Ambient temperature min./max.: -10 °C ... 60 °C

Working pressure min./max.: 0.5 bar ... 16 bar



| | Port | Nominal flow [l/min] | Working pressure min./max. [bar] | Min. regulation range ² [bar] | Max. regulation range ² [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



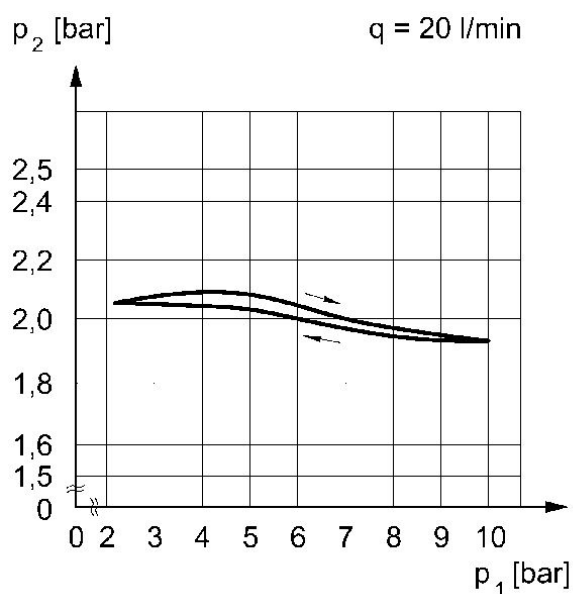
A1 = input
 A2 = output
 1) Pressure gauge Ø 40
 2) Opening for control panel assembly

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 |

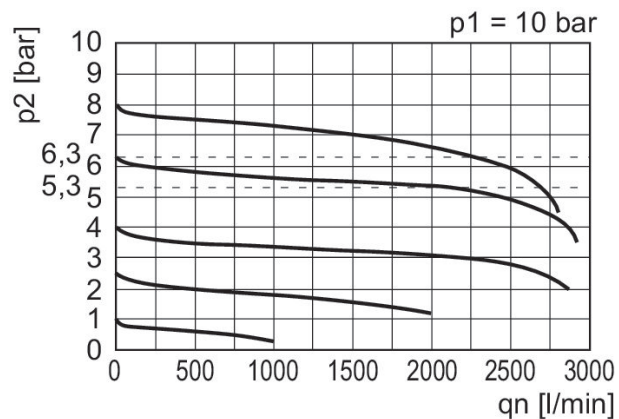
| Part No. | N | T2 | U | W |
|------------|---|-----|------|----|
| 0821302557 | 4 | 9.5 | 48.5 | 55 |
| 0821302559 | 4 | 9.5 | 48.5 | 55 |
| 0821302558 | 4 | 9.5 | 48.5 | 55 |

Pressure characteristics curve



p_1 = Working pressure
 p_2 = Secondary pressure
 q = flow rate

Flow rate characteristic (setting range p_2 : 0.5 - 10 bar)



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

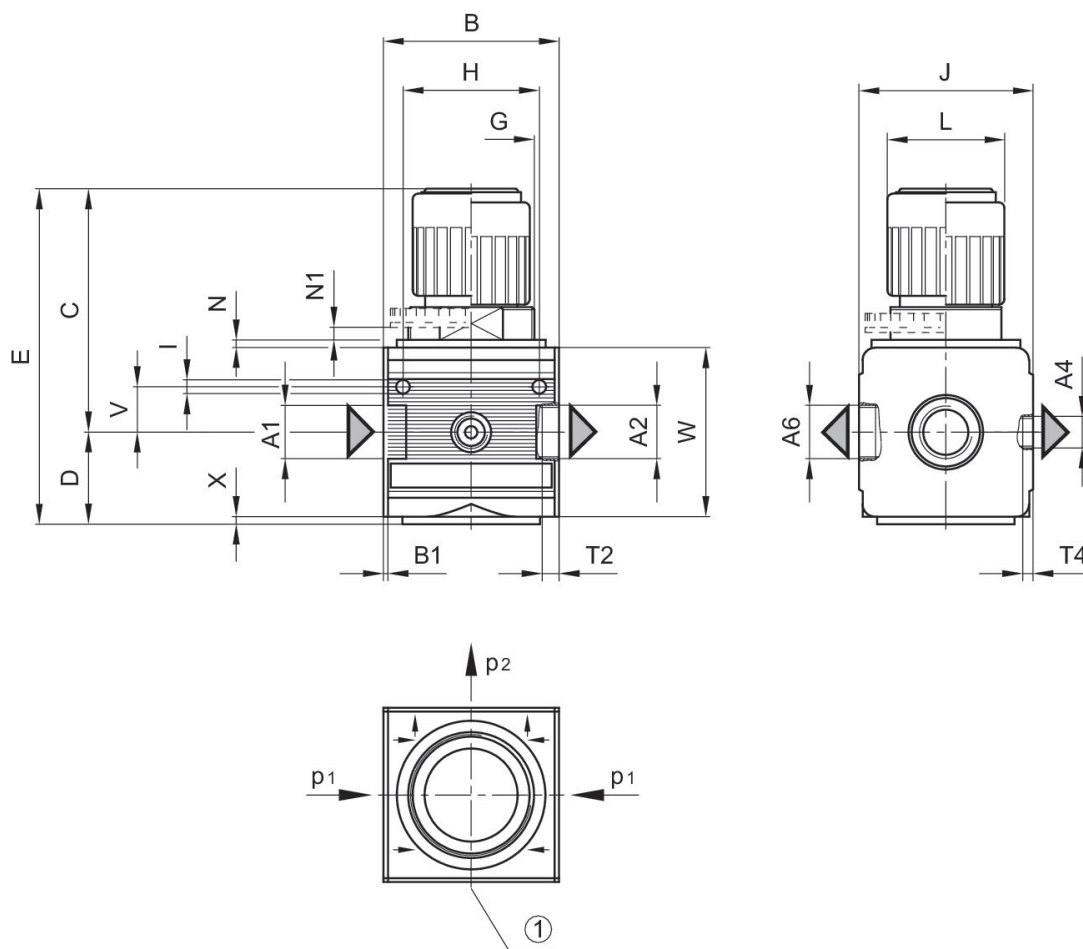
Precision pressure regulator, Series NL2-RGP-...-DS

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 range ² [bar] | Max. regulation range ² [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

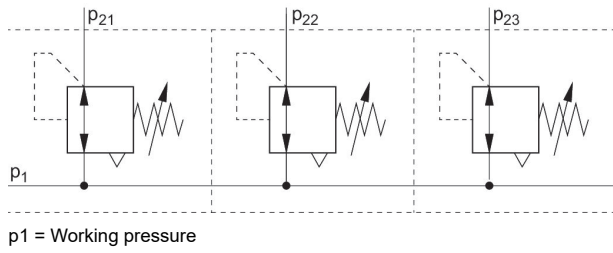
Dimensions in mm

| 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 |

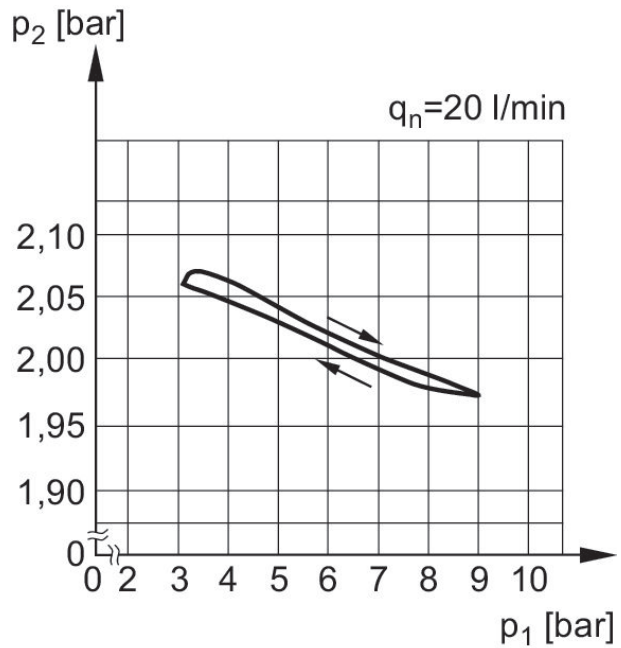
| Part No. | G | H | I | J | L | N | N1 | T2 | T4 |
|------------|---------|----|-----|----|----|---|-----|-----|----|
| 0821302527 | M30x1,5 | 36 | 4.4 | 47 | 28 | 3 | 3.5 | 9.5 | 7 |
| 0821302528 | M30x1,5 | 36 | 4.4 | 47 | 28 | 3 | 3.5 | 9.5 | 7 |
| 0821302529 | M30x1,5 | 36 | 4.4 | 47 | 28 | 3 |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

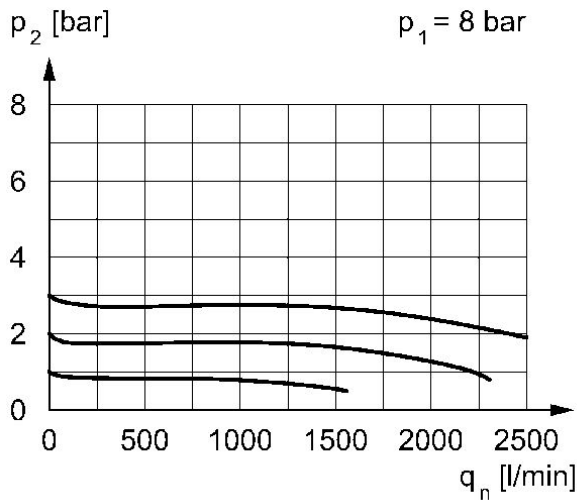


Pressure characteristics curve



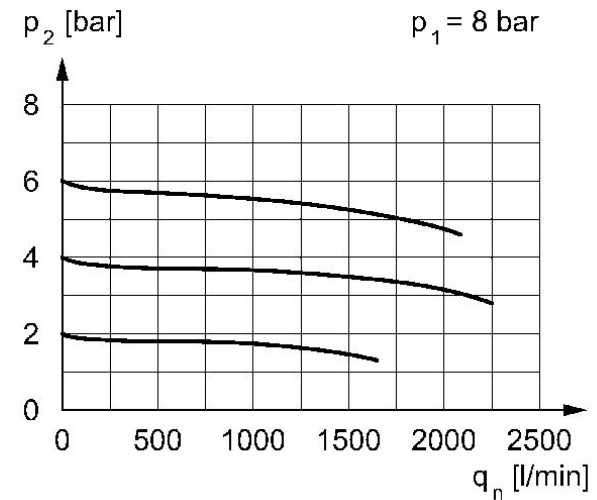
p_1 = Working pressure
 p_2 = Secondary pressure
 q_n = Nominal flow

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



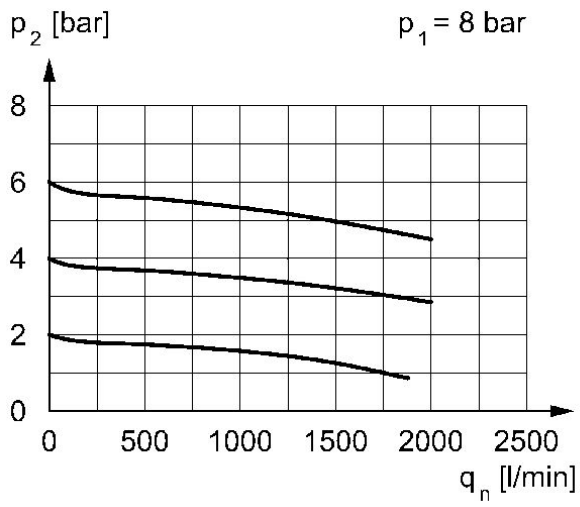
p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow
 $p_2 = 0,1 - 3 \text{ bar}$

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow
 $p_2 = 0,2 - 6 \text{ bar}$

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow
 $p_2 = 0,5 - 10 \text{ bar}$

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

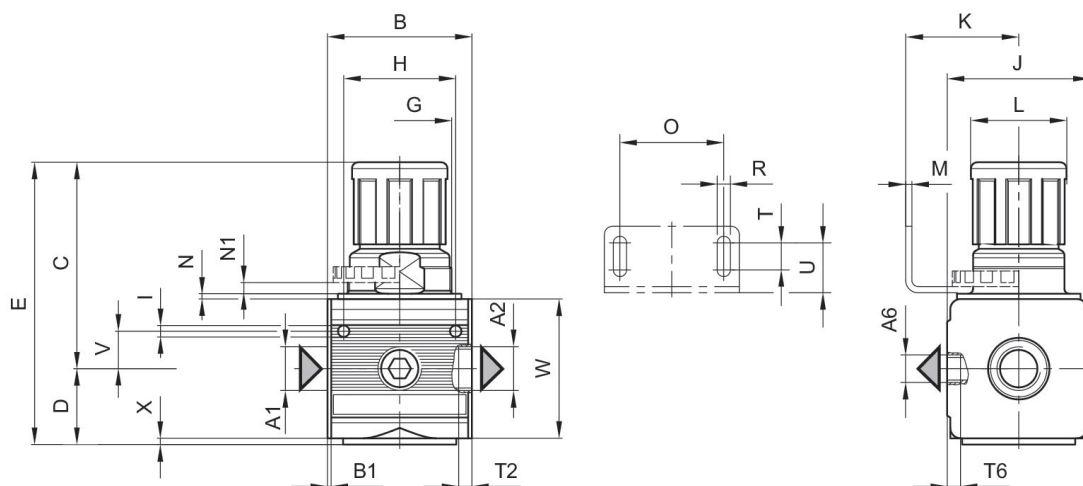
Ambient temperature min./max.: -10 °C ... 60 °C

Working pressure min./max.: 0.5 bar ... 16 bar



| | Port | Nominal flow [l/min] | Working pressure min./max. [bar] | Min. regulation range ² [bar] | Max. regulation range ² [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

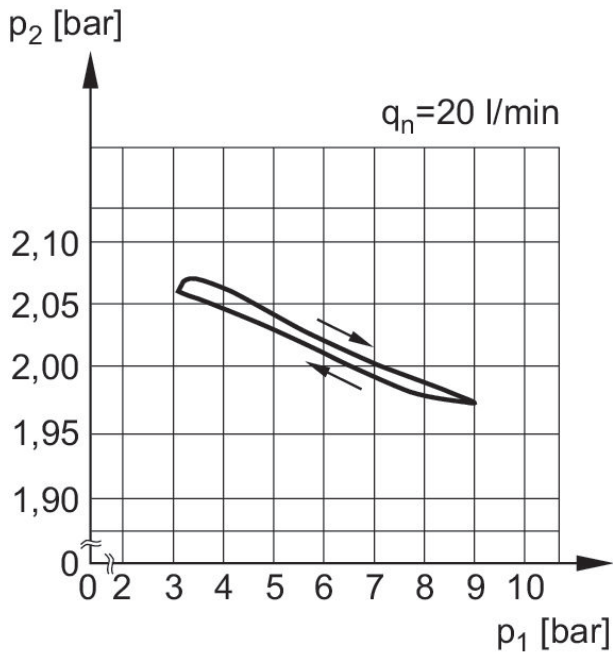
Dimensions in mm

| 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 |

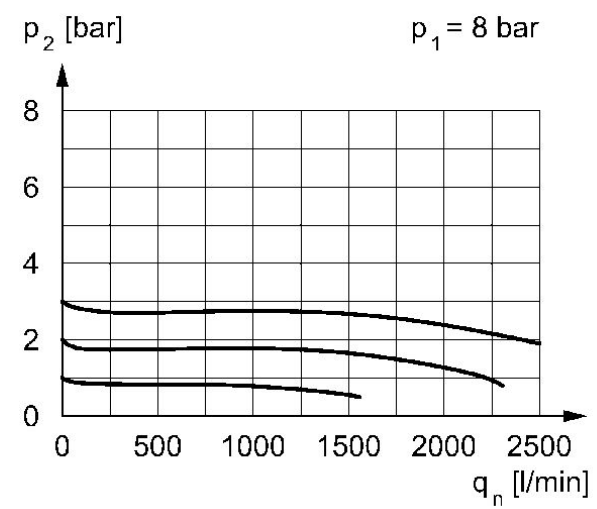
| Part No. | R | T | T2 | T6 | U | V | W | X |
|------------|-----|---|-----|----|------|------|----|---|
| 0821302515 | 5.4 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302516 | 5.4 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |
| 0821302517 | 5.4 | 8 | 9.5 | 7 | 18.5 | 12.3 | 52 | 1 |

Pressure characteristics curve



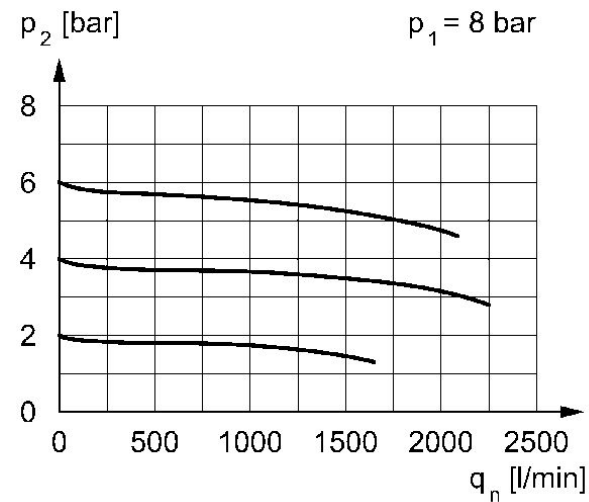
p_1 = Working pressure
 p_2 = Secondary pressure
 q = flow rate

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



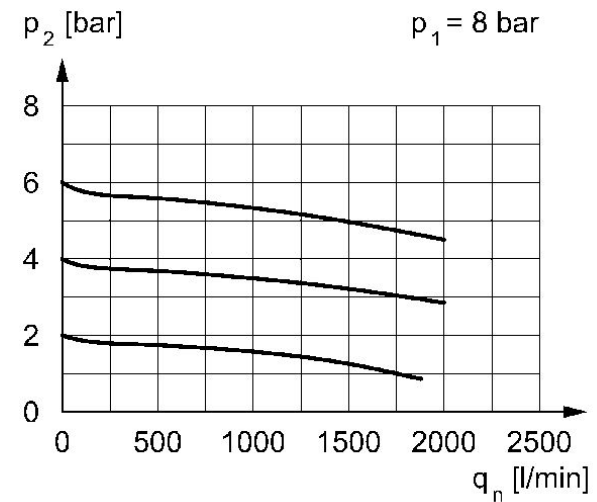
p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow
 $p_2 = 0,1 - 3 \text{ bar}$

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow
 $p_2 = 0,2 - 6 \text{ bar}$

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow
 $p_2 = 0,5 - 10 \text{ bar}$

Filter pressure regulator, Series NL2-FRE

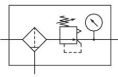
Flow: 1650 l/min

Parts: Filter pressure regulator

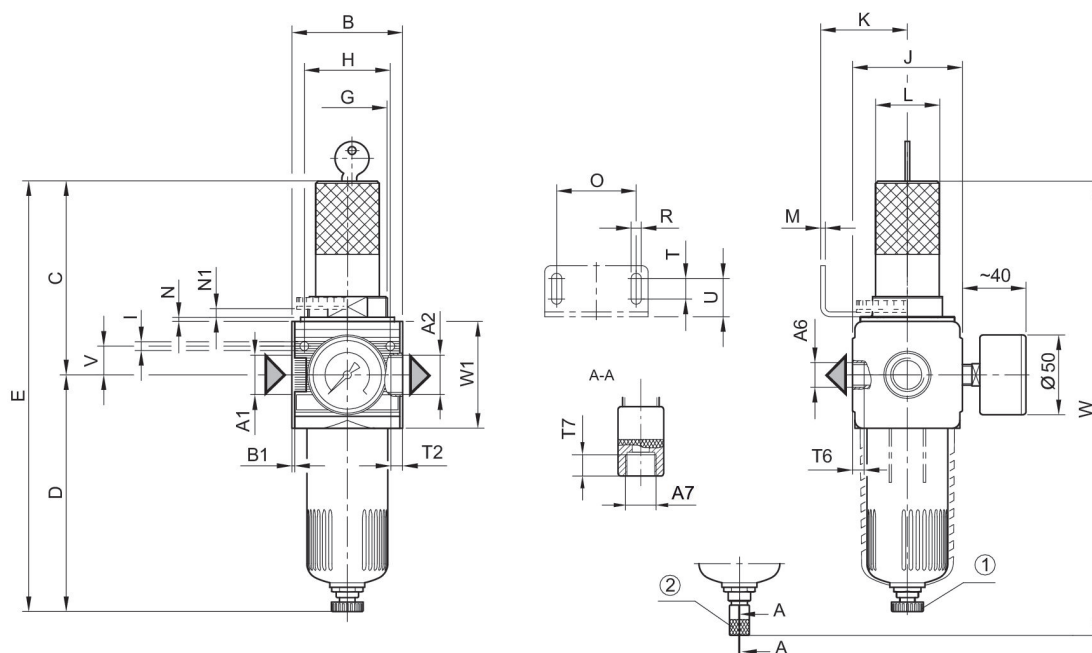
Ambient temperature min./max.: -10 °C ... 60 °C

Working pressure min./max.: 2 bar ... 16 bar



| | Port | Condensate drain | Reservoir | Min. regulation range [bar] | Max. regulation range [bar] | Part No. |
|--|-------|---------------------------------------|---|-----------------------------|-----------------------------|------------|
|  | G 1/4 | semi-automatic, open without pressure | 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

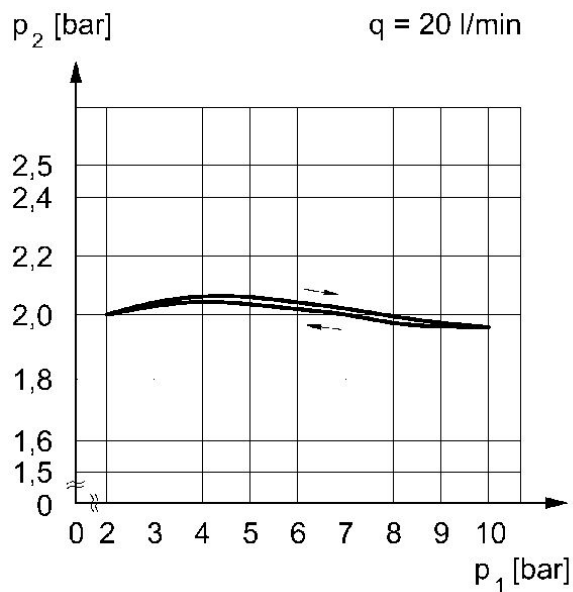
| Part No. | A1 | A2 | A6 | A7 | B | B1 | C | D | E |
|------------|-------|-------|-------|-------|----|-----|------|-------|-----|
| 0821300221 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 96.5 | 124.5 | 221 |
| 0821300223 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 96.5 | 124.5 | 221 |
| 0821300224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

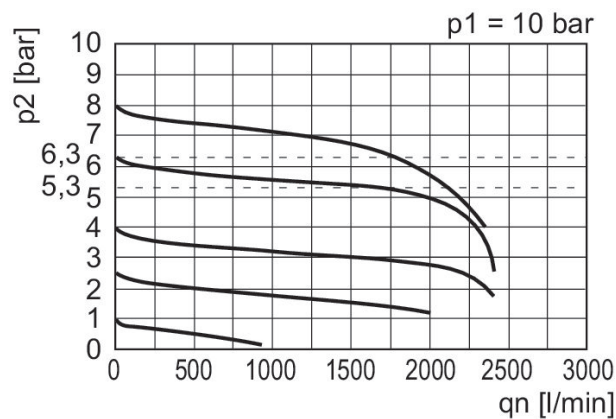
| Part No. | W1 |
|------------|----|
| 0821300221 | 52 |
| 0821300223 | 52 |
| 0821300224 | 52 |
| 0821300228 | 52 |

Pressure characteristics curve



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

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



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

Filter pressure regulator, Series NL2-FRE

Flow: 1650 l/min

Parts: Filter pressure regulator

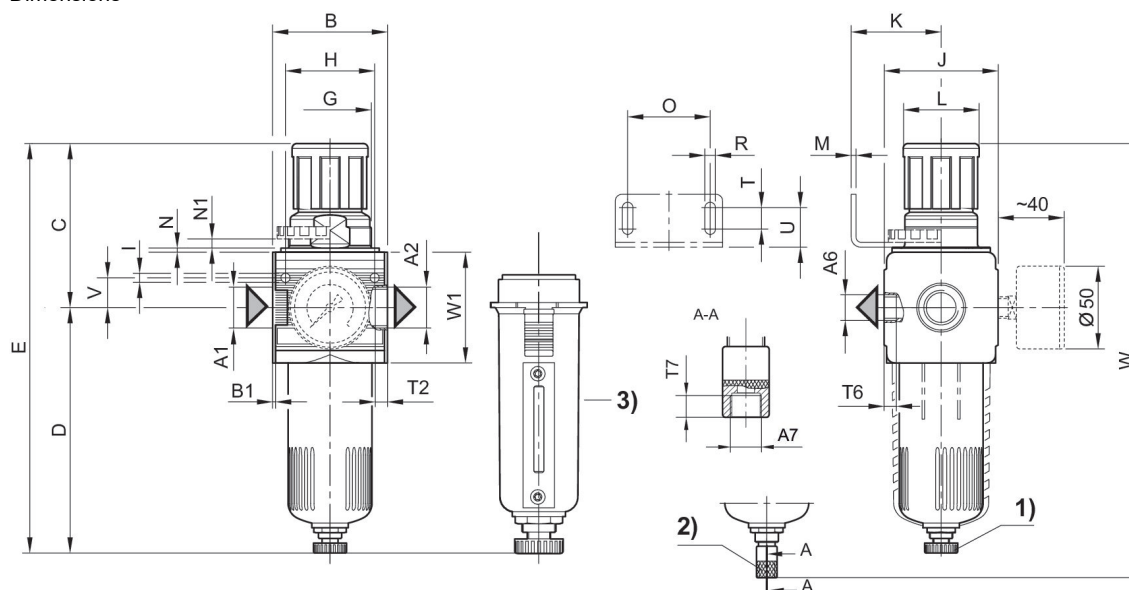
Ambient temperature min./max.: -10 °C ... 60 °C

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

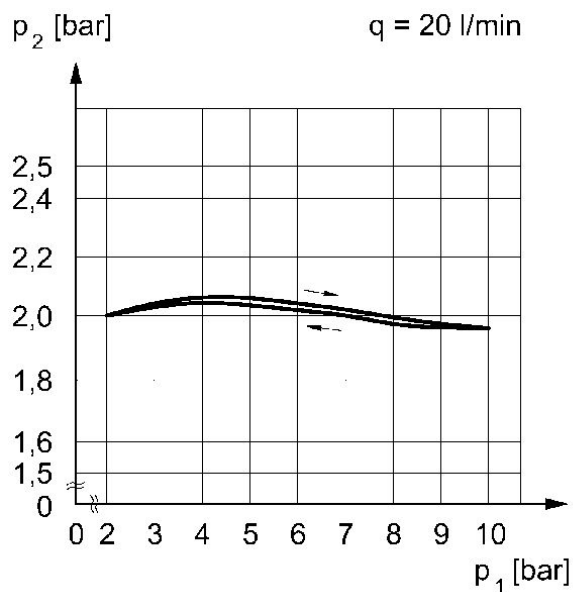
| Part No. | A1 | A2 | A6 | A7 | B | B1 | C | D | E |
|------------|-------|-------|-------|-------|----|-----|------|-------|-----|
| 0821300316 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 66.5 | 124.5 | 191 |
| 0821300275 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 66.5 | 124.5 | 191 |
| 0821300347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

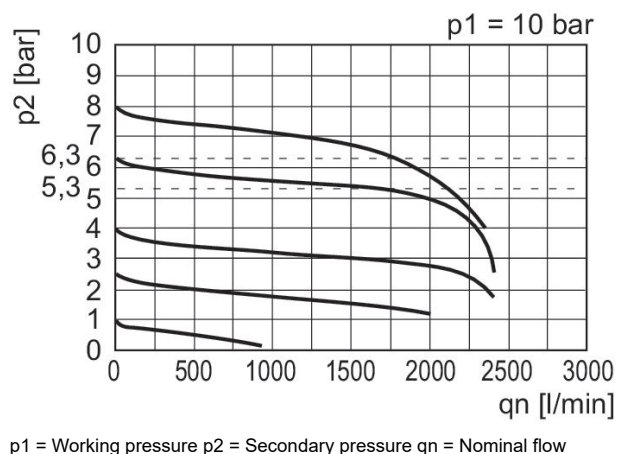
| Part No. | W1 |
|------------|----|
| 0821300316 | 52 |
| 0821300275 | 52 |
| 0821300347 | 52 |
| 0821300343 | 52 |

Pressure characteristics curve



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

Flow rate characteristic, $p_2 = 0,05 - 7 \text{ bar}$



Filter pressure regulator, Series NL2-FRE

Flow: 1650 l/min

Parts: Filter pressure regulator

Ambient temperature min./max.: -10 °C ... 60 °C

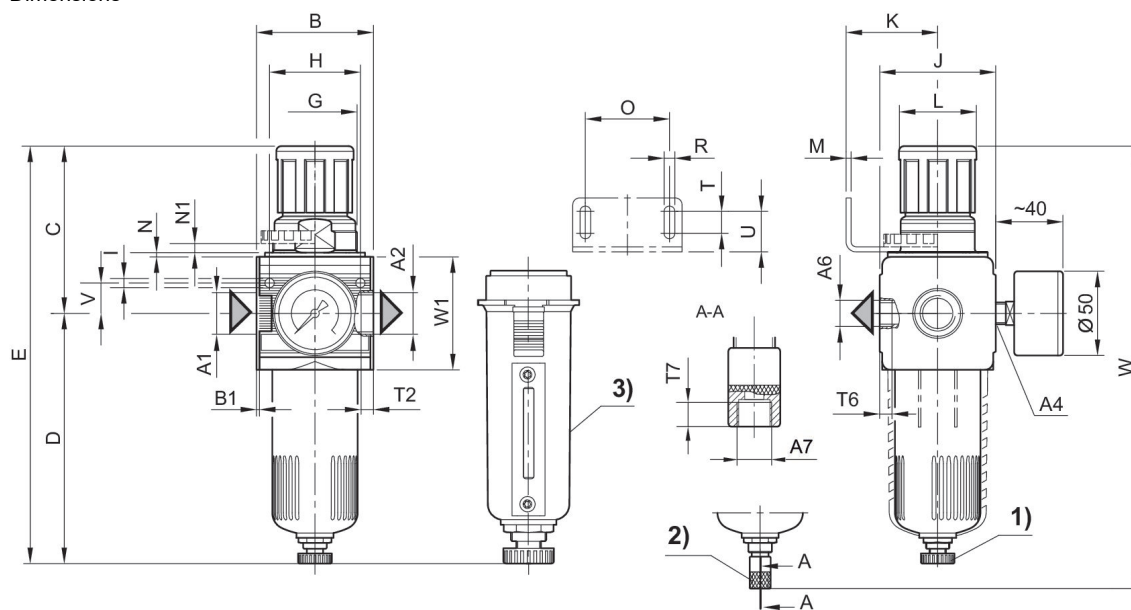
Working pressure min./max.: 2 bar ... 16 bar



| | Port | Condensate drain | Reservoir | Min. regulation range [bar] | Max. regulation range [bar] | Protective guard | Part No. |
|--|-------|--|---|-----------------------------|-----------------------------|----------------------|------------|
| | G 1/4 | semi-automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300300 |
| | G 1/4 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300301 |
| | G 1/4 | semi-automatic, open without pressure | reservoir, metal, with inspection glass | 0.5 | 10 | | 0821300302 |
| | G 1/4 | fully automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300303 |
| | G 1/4 | fully automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300304 |
| | G 1/4 | fully automatic, open without pressure | reservoir, metal, with inspection glass | 0.5 | 10 | | 0821300305 |
| | G 3/8 | semi-automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300330 |
| | G 3/8 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300331 |
| | G 3/8 | fully automatic, open without pressure | reservoir, polycarbonate, without protective guard | 0.5 | 10 | | 0821300333 |

| | Port | Condensate drain | Reservoir | Min. regulation range [bar] | Max. regulation range [bar] | Protective guard | Part No. |
|--|-------|--|---|-----------------------------|-----------------------------|----------------------|------------|
|  | G 3/8 | fully automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | 0.5 | 10 | Steel, chrome-plated | 0821300334 |
|  | G 3/8 | fully automatic, open without 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

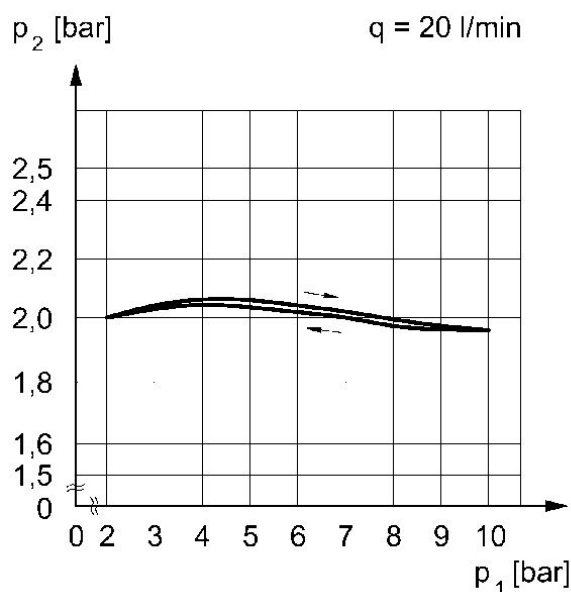
| Part No. | A1 | A2 | A4 | A6 | A7 | B | B1 | C | D |
|------------|-------|-------|-------|-------|-------|----|-----|----|-------|
| 0821300300 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300301 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | 48 | 1.5 | 71 | 124.5 |
| 0821300302 | 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 |

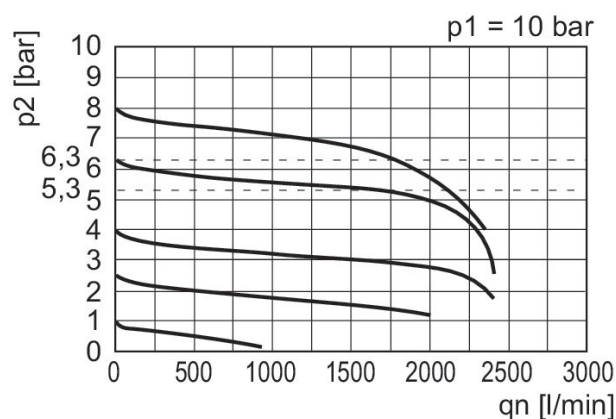
| Part No. | W | W1 |
|------------|-------|----|
| 0821300300 | 217.5 | 52 |
| 0821300301 | 217.5 | 52 |
| 0821300302 | 217.5 | 52 |
| 0821300303 | 217.5 | 52 |
| 0821300304 | 217.5 | 52 |
| 0821300307 | 217.5 | 52 |
| 0821300308 | 217.5 | 52 |
| 0821300305 | 217.5 | 52 |
| 0821300330 | 217.5 | 52 |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

Pressure characteristics curve



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

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



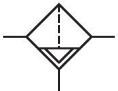
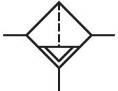
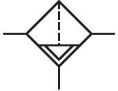
p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow

Filter, Series NL2-FLS

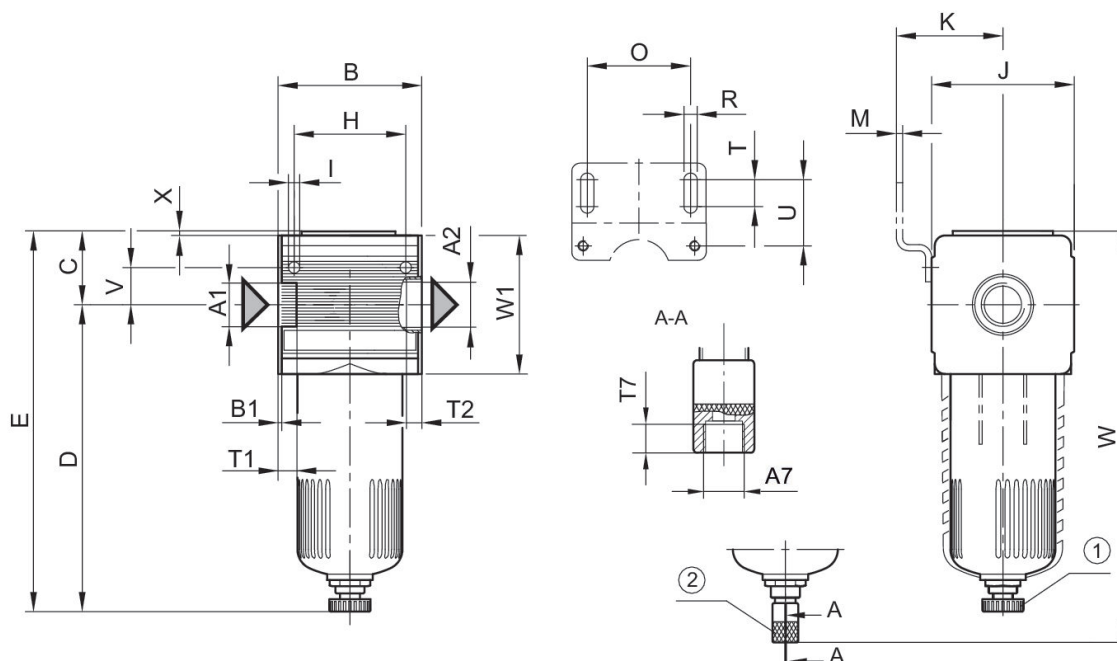
Mounting orientation: vertical
 Filter element: exchangeable
 : Can be assembled into blocks
 Flow: 2100 l/min
 Filter porosity: 5 µm
 Filter reservoir volume: 25 cm³
 Ambient temperature min./max.: -10 °C ... 60 °C
 Working pressure min./max.: 2 bar ... 16 bar



| | Port | Nominal flow [l/min] | Filter porosity [µm] | Condensate drain | Reservoir | Filter insert | Part No. |
|--|-------|----------------------|----------------------|--|---|---------------|------------|
| | G 1/4 | 2100 | 5 | semi-automatic, open without pressure | reservoir, polycarbonate, without protective guard | Cellpor | 0821303400 |
| | G 1/4 | 2100 | 5 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | Cellpor | 0821303401 |
| | G 1/4 | 2100 | 5 | semi-automatic, open without pressure | reservoir, metal, with inspection glass | Cellpor | 0821303402 |
| | G 1/4 | 2100 | 5 | fully automatic, open without pressure | reservoir, polycarbonate, without protective guard | Cellpor | 0821303403 |
| | G 1/4 | 2100 | 5 | fully automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | Cellpor | 0821303404 |
| | G 1/4 | 2100 | 5 | fully automatic, open without pressure | reservoir, metal, with inspection glass | Cellpor | 0821303405 |
| | G 3/8 | 2100 | 5 | semi-automatic, open without pressure | reservoir, polycarbonate, without protective guard | Cellpor | 0821303440 |
| | G 3/8 | 2100 | 5 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | Cellpor | 0821303441 |
| | G 3/8 | 2100 | 5 | semi-automatic, open without pressure | reservoir, metal, with inspection glass | Cellpor | 0821303442 |

| | Port | Nominal flow [l/min] | Filter porosity [μm] | Condensate drain | Reservoir | Filter insert | Part No. |
|--|-------|----------------------|-----------------------------------|--|---|---------------|------------|
|  | G 3/8 | 2100 | 5 | fully automatic, open without pressure | reservoir, polycarbonate, without protective guard | Cellpor | 0821303443 |
|  | G 3/8 | 2100 | 5 | fully automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | Cellpor | 0821303444 |
|  | G 3/8 | 2100 | 5 | fully automatic, open without 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

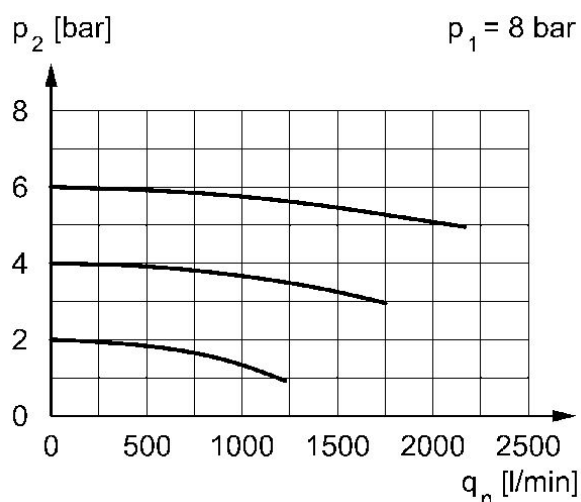
Dimensions in mm

| 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, $p_2 = 0,05 - 7 \text{ bar}$



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

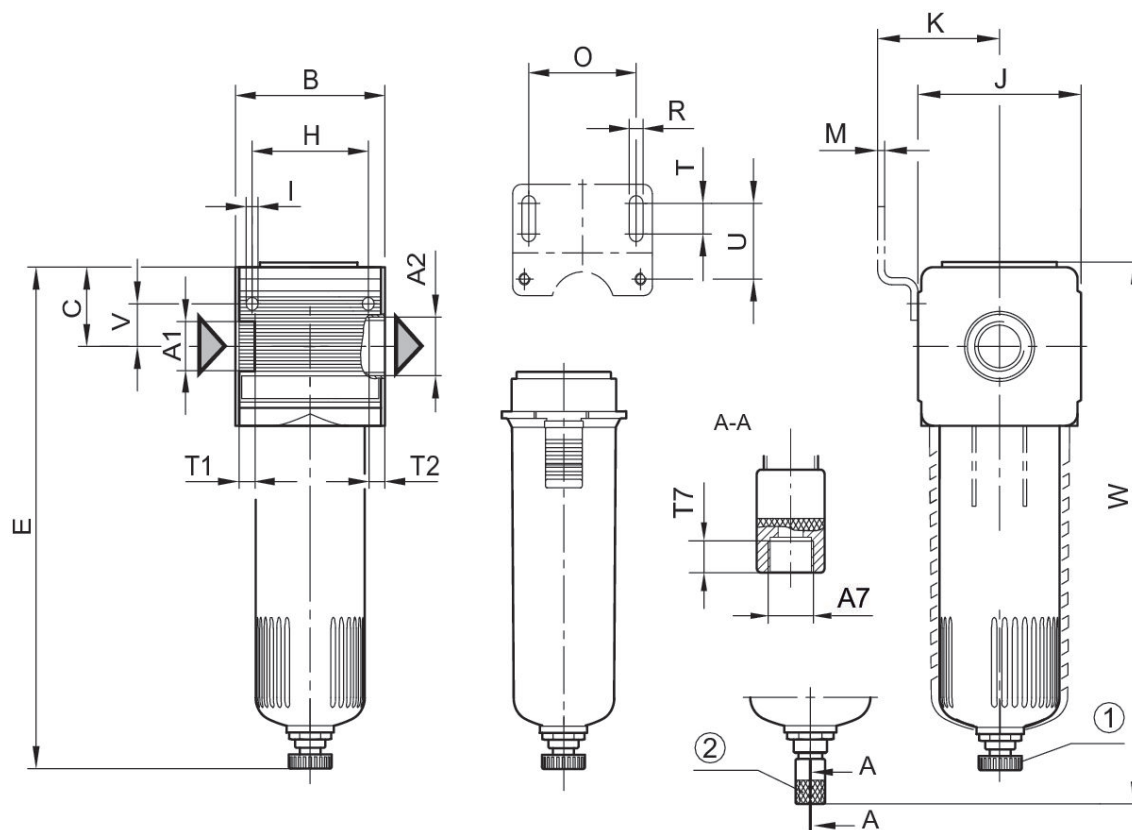
Pre-filter, Series NL2-FLP

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] | Condensate drain | Reservoir | Filter insert | Part No. |
|--|-------|----------------------|----------------------|--|--------------------------------|-------------------|------------|
| | G 1/4 | 380 | 0.3 | semi-automatic, open without pressure | Reservoir polycarbonate | Impregnated paper | 0821303308 |
| | G 1/4 | 380 | 0.3 | fully automatic, open without pressure | Reservoir polycarbonate | Impregnated paper | 0821303309 |
| | G 1/4 | 380 | 0.3 | fully automatic, open without pressure | Metal reservoir without window | Impregnated paper | R412010785 |

Dimensions



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

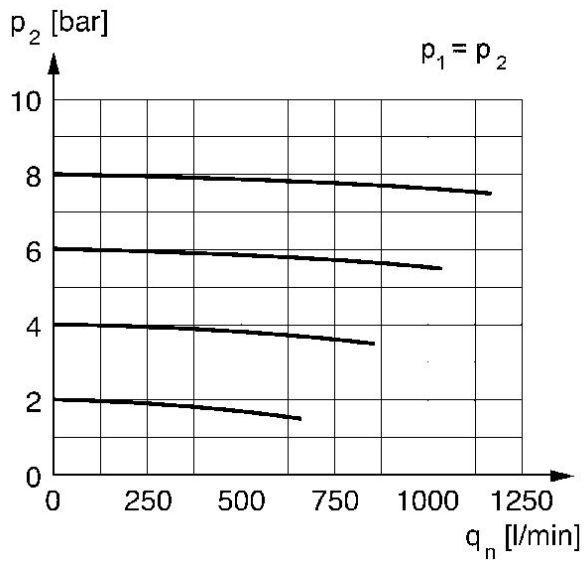
Dimensions in mm

| 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, $p_2 = 0,05 - 7$ bar



p_2 = secondary pressure q_n = nominal flow

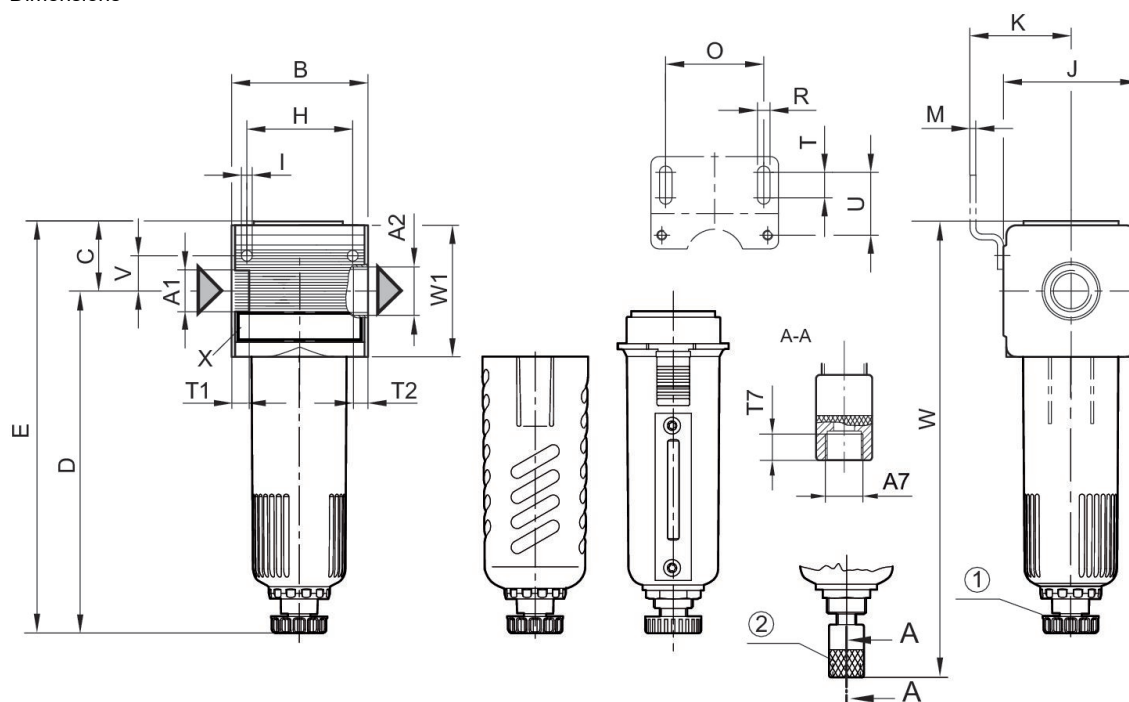
Microfilter, Series NL2-FLC

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] | Condensate drain | Reservoir | Filter insert | Part No. |
|--|-------|----------------------|----------------------|--|---|--------------------------|------------|
| | G 1/4 | 280 | 0.01 | semi-automatic, open without pressure | Reservoir polycarbonate | Borosilicate glass fiber | 0821303449 |
| | G 1/4 | 280 | 0.01 | semi-automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | Borosilicate glass fiber | R412010787 |
| | G 1/4 | 280 | 0.01 | semi-automatic, open without pressure | reservoir, metal, with inspection glass | Borosilicate glass fiber | R412010788 |
| | G 1/4 | 280 | 0.01 | fully automatic, open without pressure | Metal reservoir without window | Borosilicate glass fiber | R412010786 |
| | G 1/4 | 280 | 0.01 | fully automatic, open without pressure | Reservoir polycarbonate | Borosilicate glass fiber | 0821303305 |
| | G 1/4 | 280 | 0.01 | fully automatic, open without pressure | reservoir, polycarbonate, with metal protective guard | Borosilicate glass fiber | R412010789 |
| | G 1/4 | 280 | 0.01 | fully automatic, open without 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

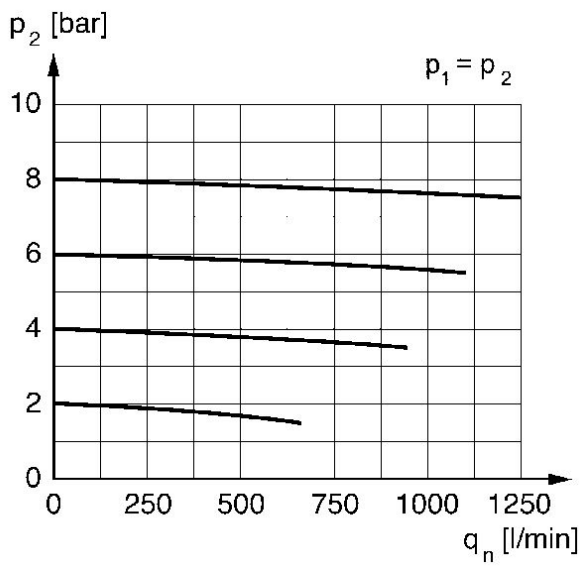
Dimensions in mm

| 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



p_2 = secondary pressure q_n = nominal flow

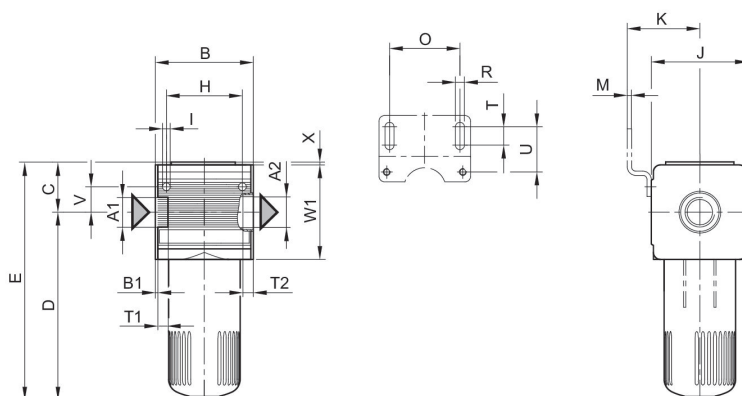
Active carbon filter, Series NL2-FLA

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 reservoir without window | Active carbon | R412010792 |

Dimensions



A1 = input A2 = output

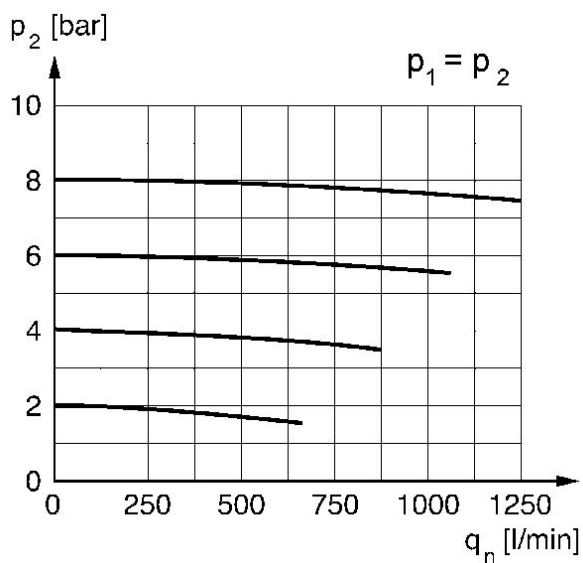
Dimensions in mm

| 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, $p_2 = 0,05 - 7 \text{ bar}$



p_2 = secondary pressure q_n = nominal flow

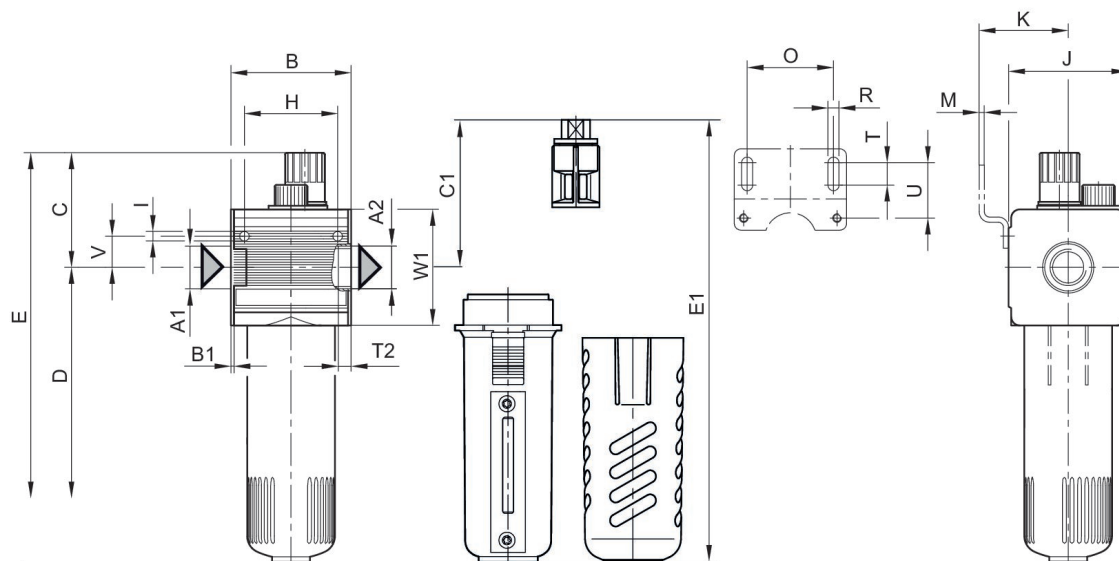
Standard oil-mist lubricator, Series NL2-LBS

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 [cm ³] | 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

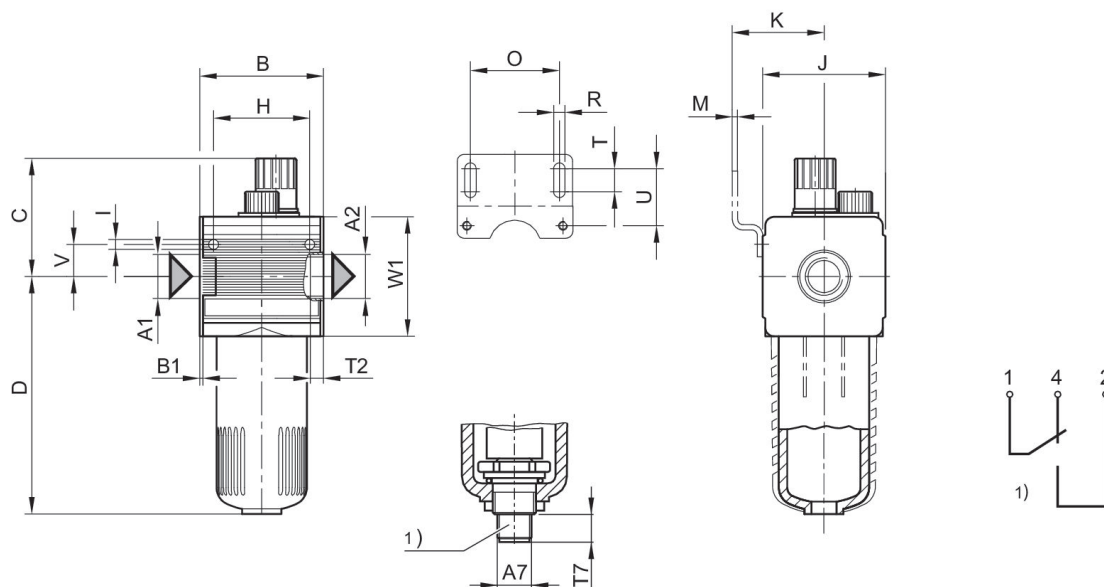
Dimensions in mm

| 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

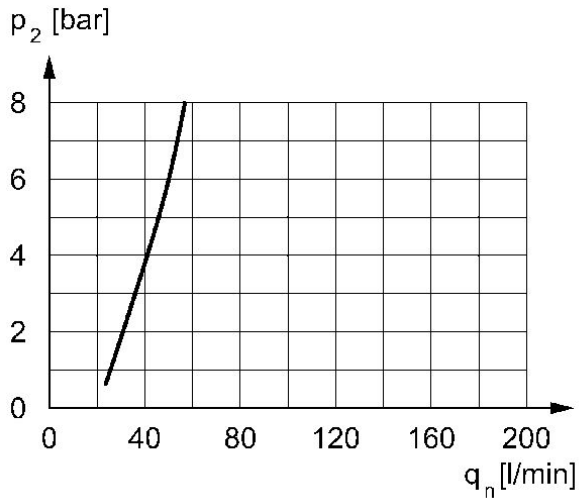
Dimensions in mm

| 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 |

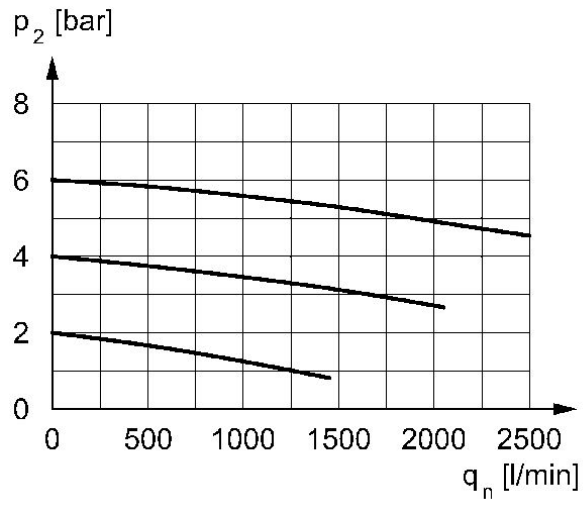
| Part No. | V | W1 |
|------------|------|----|
| 0821301408 | 12.3 | 52 |

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



p_2 = secondary pressure $q_{nmin.}$ = min. nominal flow

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



p_2 = secondary pressure q_n = 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

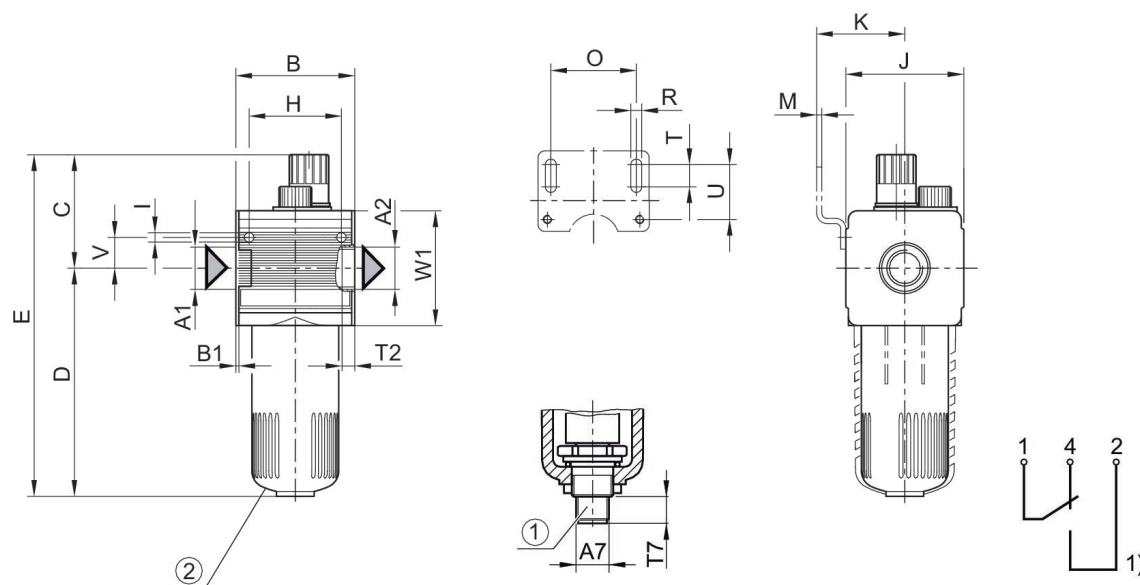
Ambient temperature min./max.: -10 °C ... 60 °C

Working pressure min./max.: 0.5 bar ... 16 bar



| | Port | Nominal flow [l/min] | Reservoir | Lubricator reservoir volume [cm ³] | 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

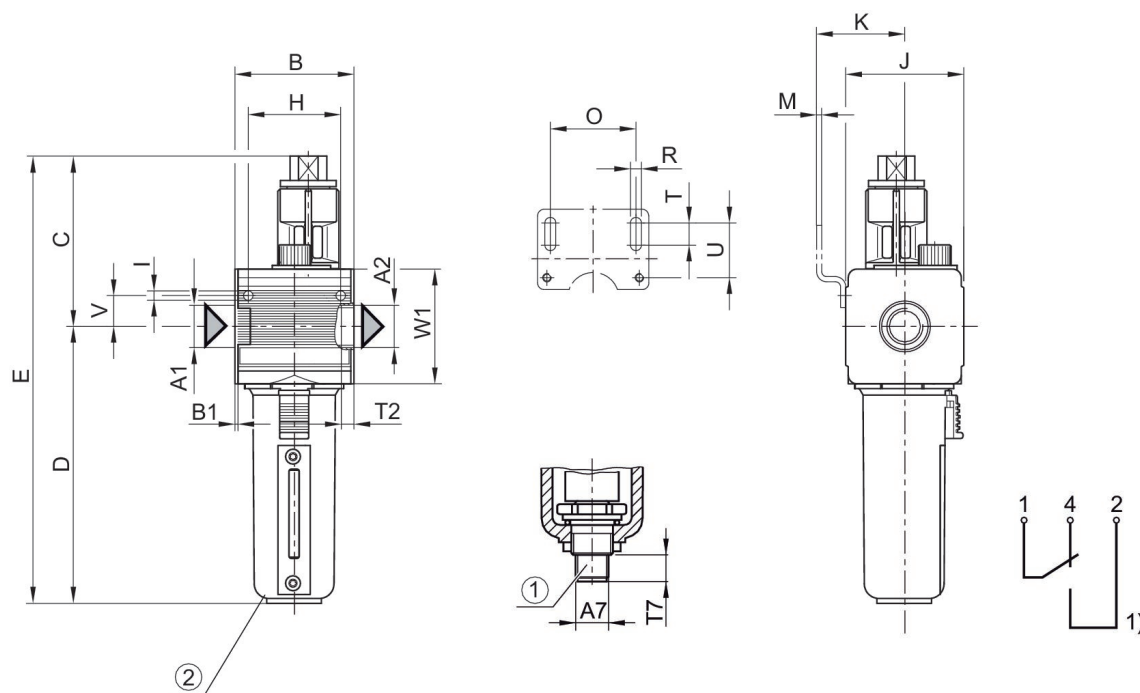
Dimensions in mm

| 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

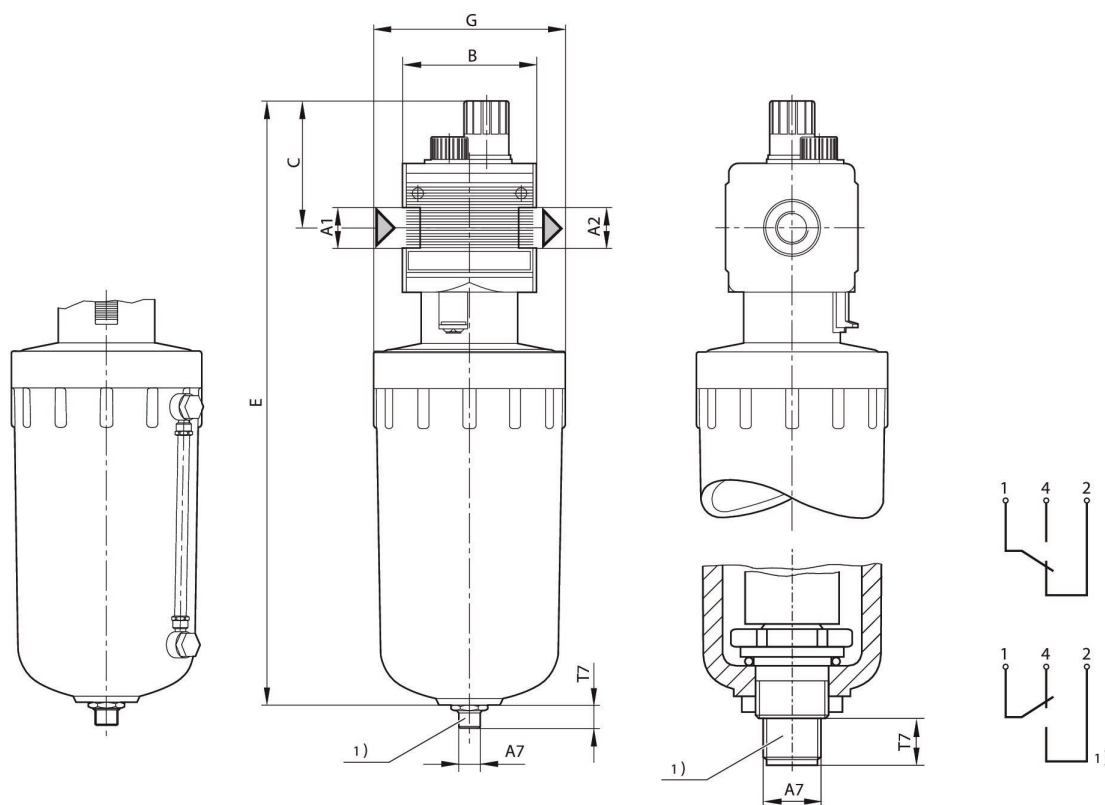
Dimensions in mm

| 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 reservoir 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

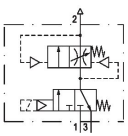
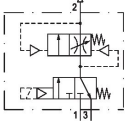
Activation: Electrically

Parts: 3/2-directional valve, Filling valve

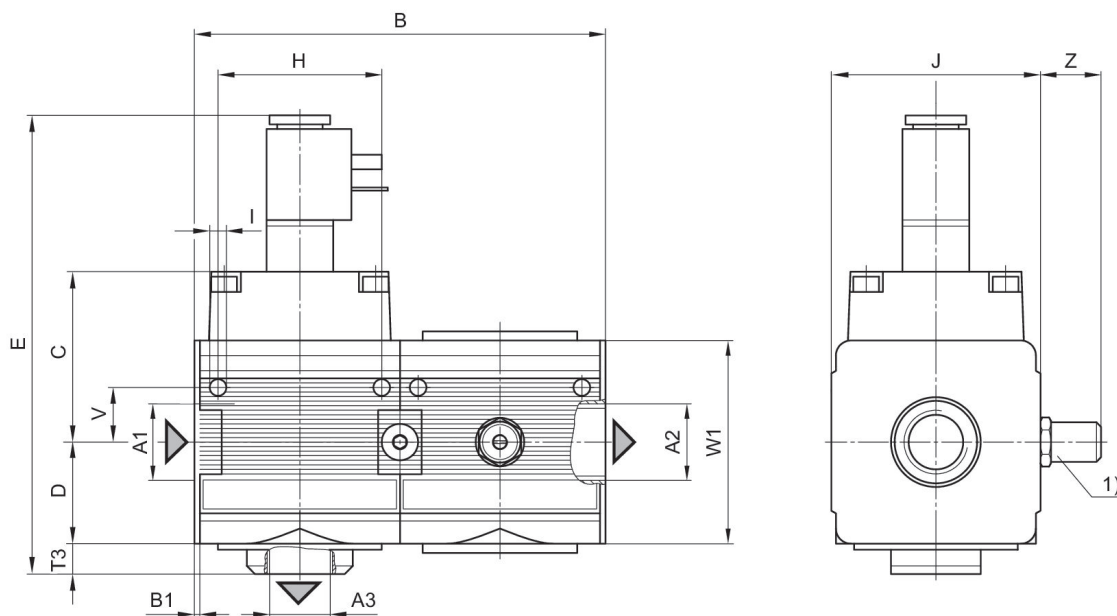
Ambient temperature min./max.: -10 °C ... 60 °C

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

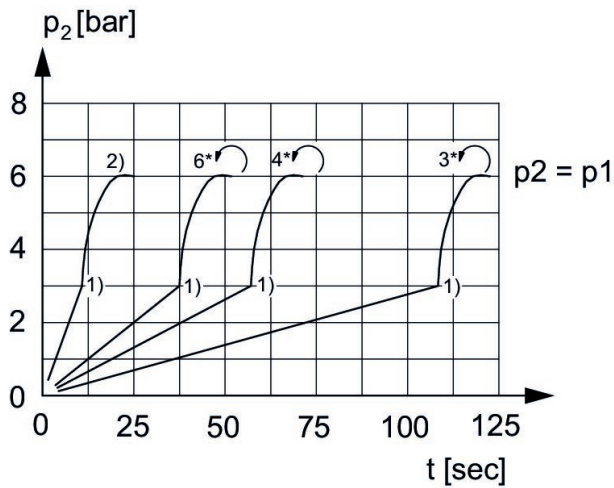
Dimensions in mm

| 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 |

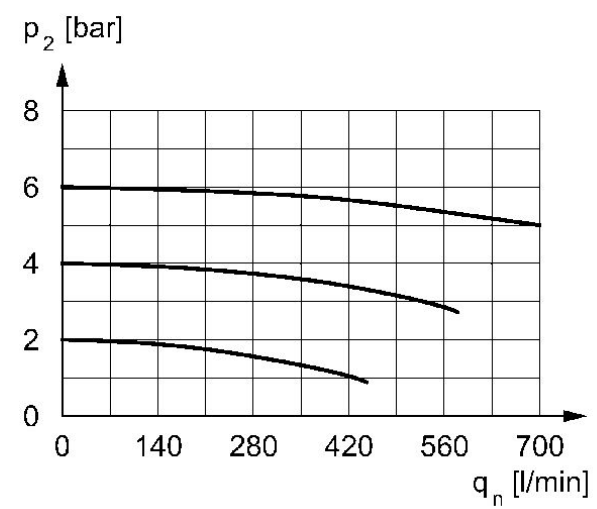
| Part No. | Z | U | V | W1 |
|------------|----|------|------|----|
| 0821300941 | - | 27.5 | 12.3 | 52 |
| 0821300943 | - | 27.5 | 12.3 | 52 |
| 0821300944 | - | 27.5 | 12.3 | 52 |
| 0821300946 | 20 | 27.5 | 12.3 | 52 |

Secondary pressure while filling



p_1 = Working pressure
 p_2 = Secondary pressure
 t = filling time, adjustable via adjustment screw (throttle)
 1) Switching point: adjustable filling time, fixed change-over pressure $\approx 0.5 \times p_1$ (50%)
 2) Throttle fully opened
 * Adjustment screw rotations

Flow rate characteristic, $p_2 = 0,05 - 7$ bar



p_2 = Secondary pressure
 q_n = Nominal flow

Filling valve, pneumatically operated, Series NL2-SSV

Flow: 1000 l/min

Activation: Pneumatically

Parts: 3/2-directional valve, Filling valve

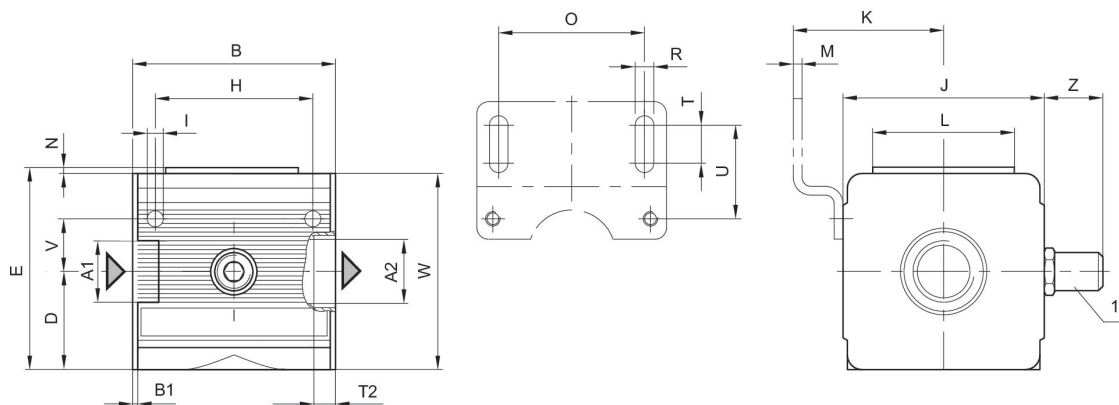
Ambient temperature min./max.: -10 °C ... 60 °C

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

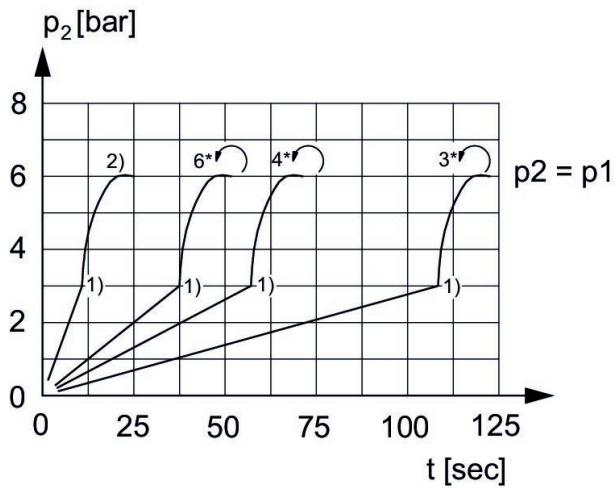
Dimensions in mm

| 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 |

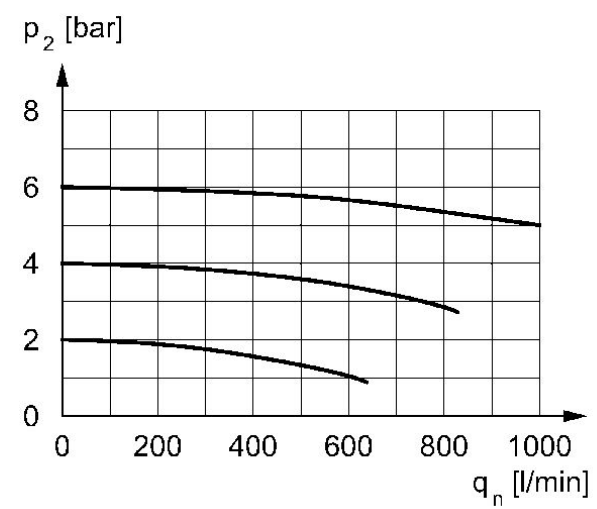
| Part No. | U | V | W | Z |
|------------|------|------|----|----|
| 0821300925 | 27.5 | 12.3 | 52 | - |
| 0821300926 | 27.5 | 12.3 | 52 | 20 |

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 $\approx 0.5 \times p1$ (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

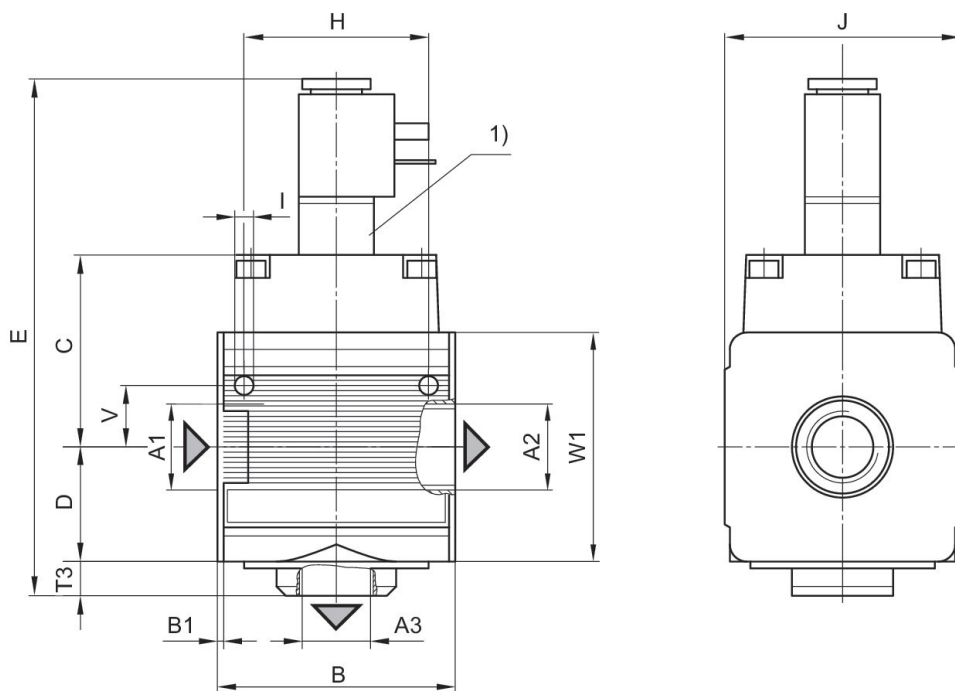
Ambient temperature min./max.: -10 °C ... 60 °C

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



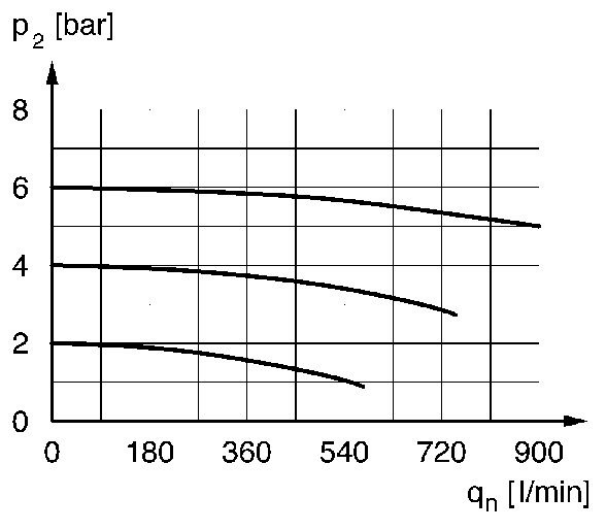
A1 = input A2 = output A3 = output
1) electrically operated

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, $p_2 = 0,05 - 7 \text{ bar}$



p_2 = secondary pressure q_n = nominal flow

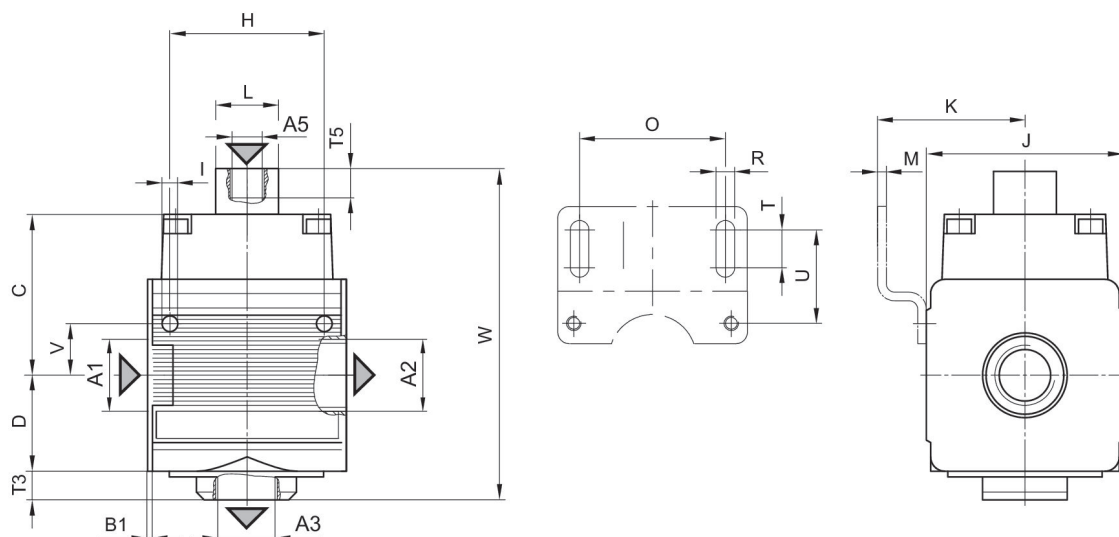
3/2-directional valve, pneumatically operated, Series NL2-SOV

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

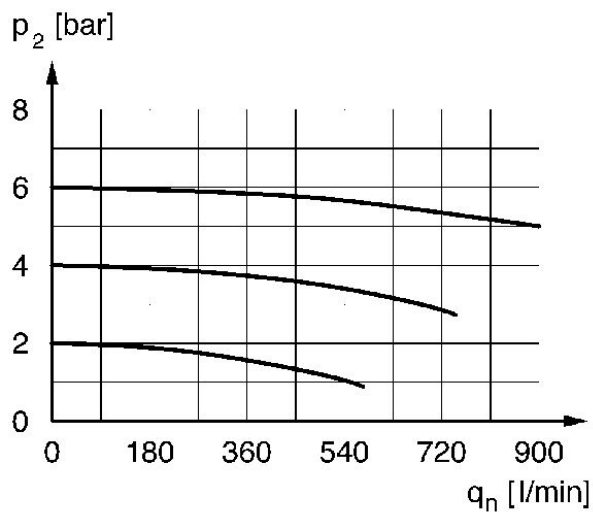
Dimensions in mm

| 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, $p_2 = 0,05 - 7 \text{ bar}$



p_2 = Secondary pressure
 q_n = Nominal flow

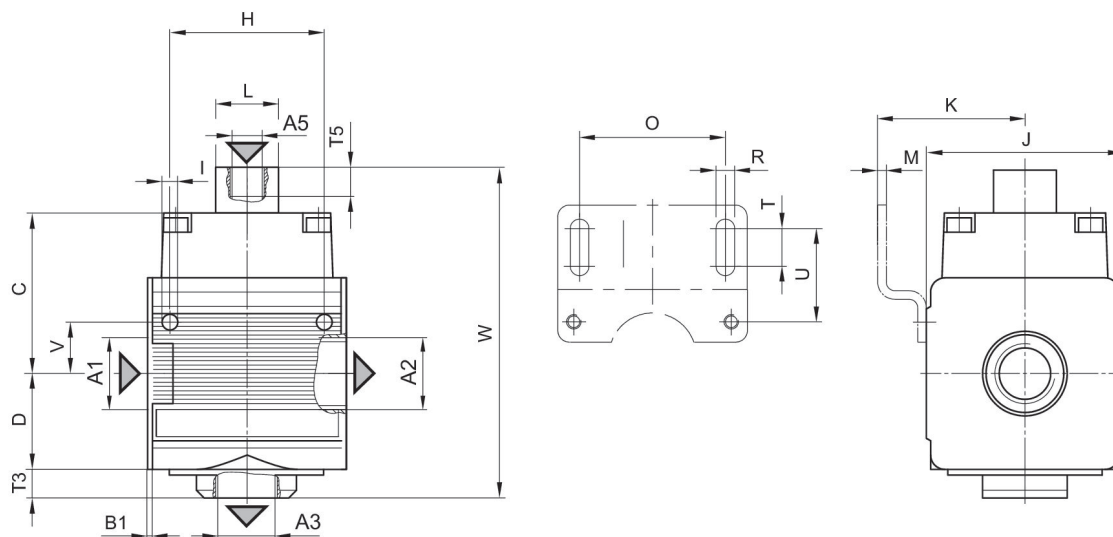
3/2-directional valve, pneumatically operated, Series NL2-SOV

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

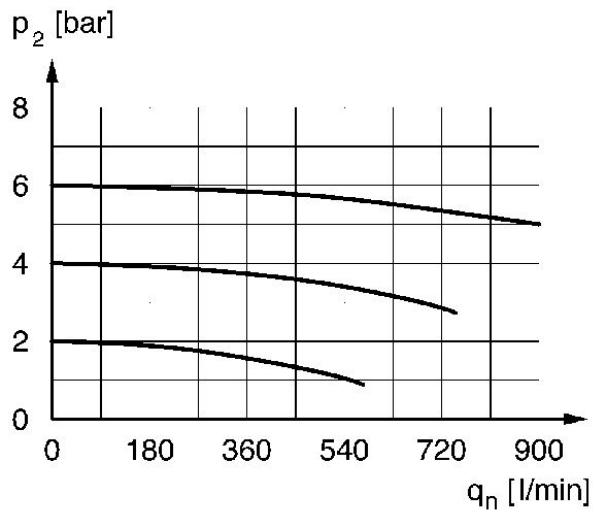
Dimensions in mm

| 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, $p_2 = 0,05 - 7 \text{ bar}$



p_2 = Secondary pressure
 q_n = Nominal flow

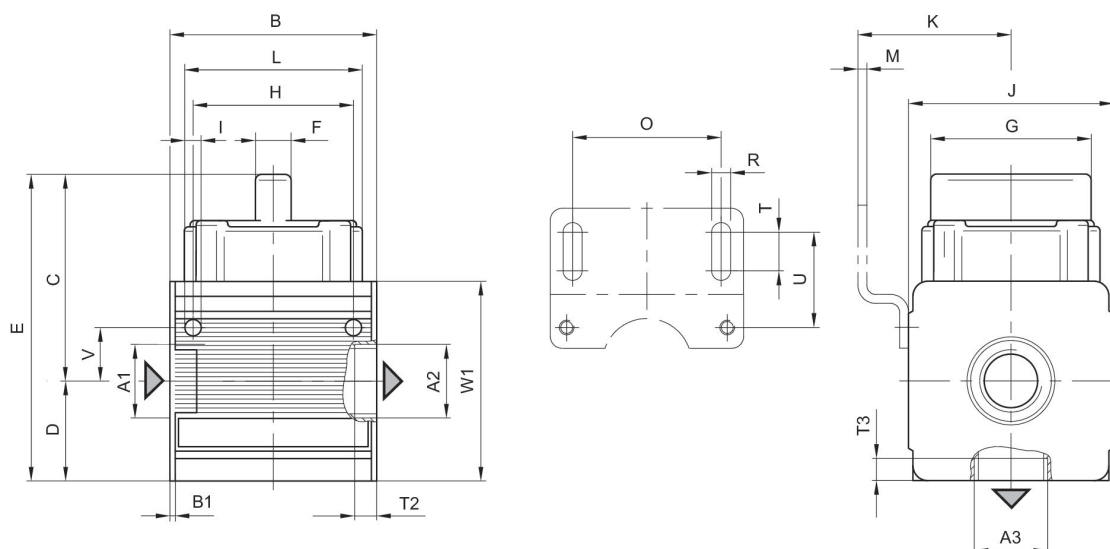
3/2-shut-off valve, mechanically operated, Series NL2-BAV

: 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

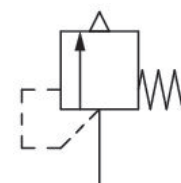
| Part No. | A1 | A2 | A3 | B | B1 | C | D | E | F |
|------------|-------|-------|-------|----|-----|------|----|------|---|
| 0821300901 | G 1/4 | G 1/4 | G 1/4 | 48 | 1.5 | 54.5 | 26 | 80.5 | 8 |
| 0821300903 | G 3/8 | G 3/8 | G 1/4 | 48 | 1.5 | 54.5 | 26 | 80.5 | 8 |

| 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 |

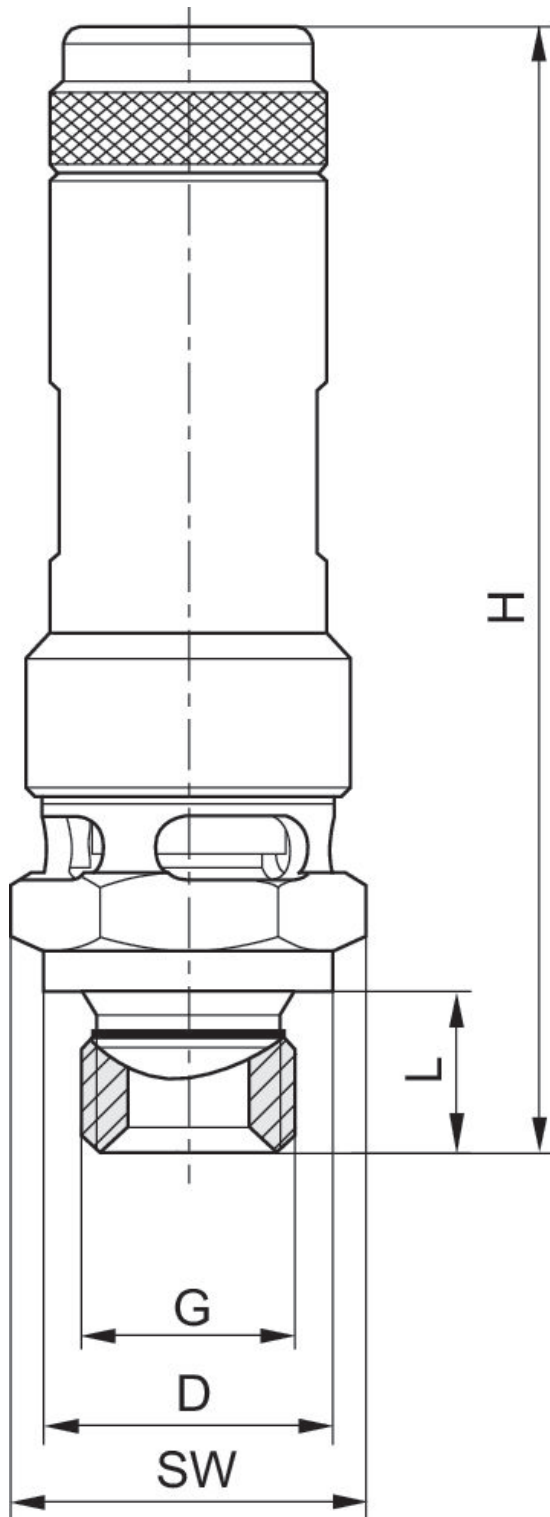
Series RV1

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

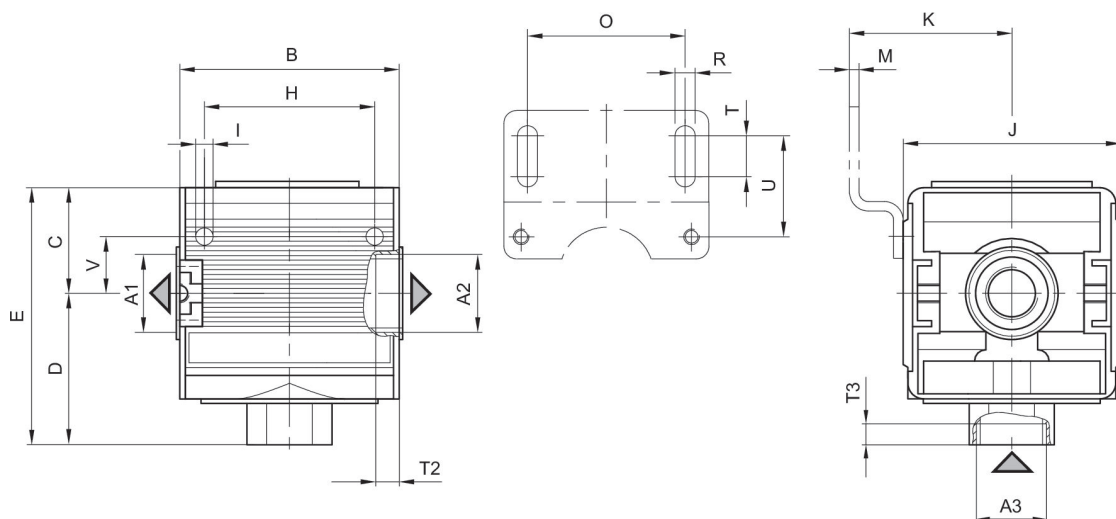
Distributor, Series NL2-DIC

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 |

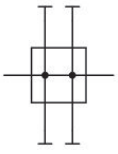
| Part No. | J | K | M | O | R | T | T2 | T3 | U |
|------------|----|------|---|----|-----|---|----|-----|------|
| 0821300264 | 47 | 43.5 | 3 | 38 | 5.4 | 8 | 8 | 8.5 | 27.5 |

| Part No. | V |
|------------|------|
| 0821300264 | 12.3 |

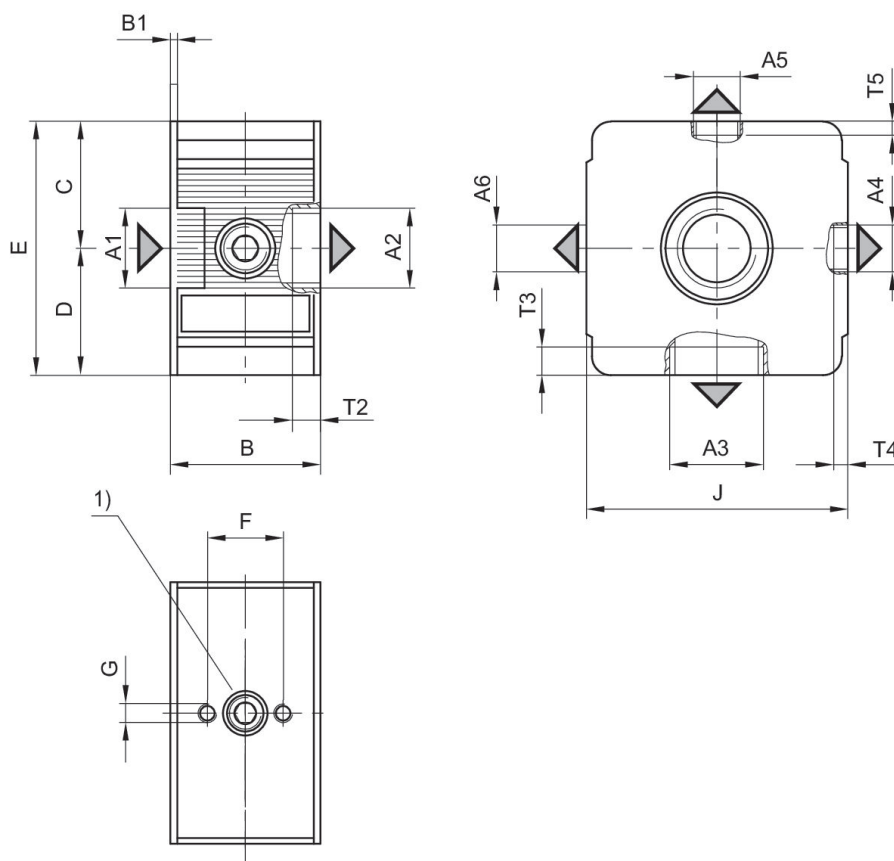
Distributor, Series NL2-DIL

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

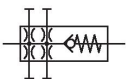
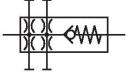
| Part No. | A1 | A2 | A3 | A4 | A5 | A6 | B | B1 | C |
|------------|-------|-------|-------|-------|-------|-------|----|-----|----|
| 0821300920 | G 1/4 | G 1/4 | G 1/4 | G 1/4 | G 1/8 | G 1/4 | 35 | 1.5 | 26 |

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

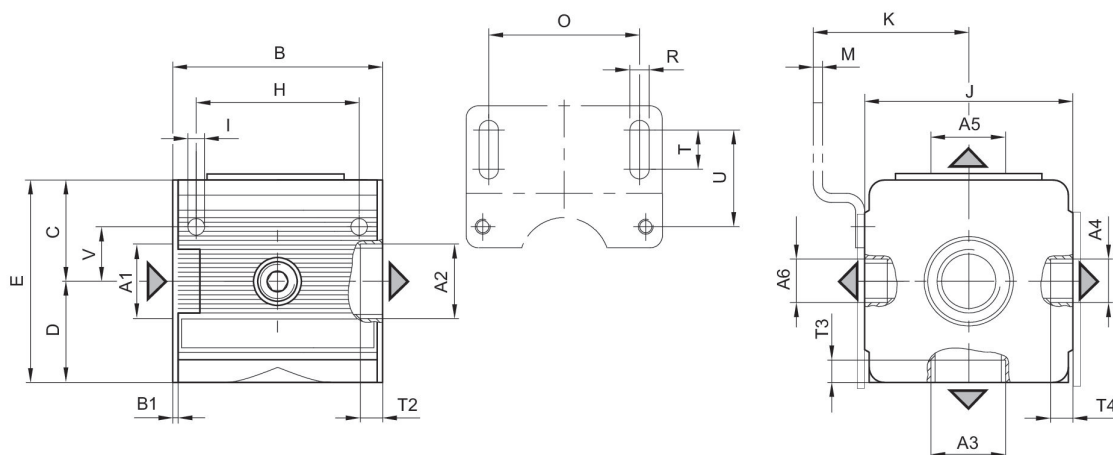
Distributor, Series NL2-DIN

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

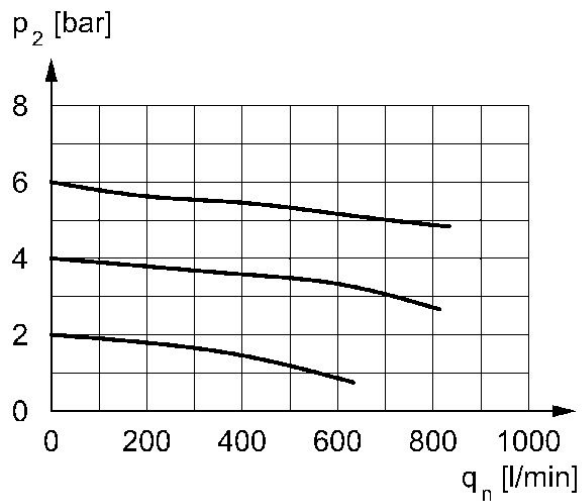
Dimensions in mm

| 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, $p_2 = 0,05 - 7 \text{ bar}$

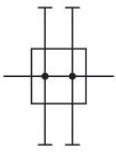
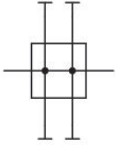


p_1 = Working pressure p_2 = Secondary pressure q_n = Nominal flow

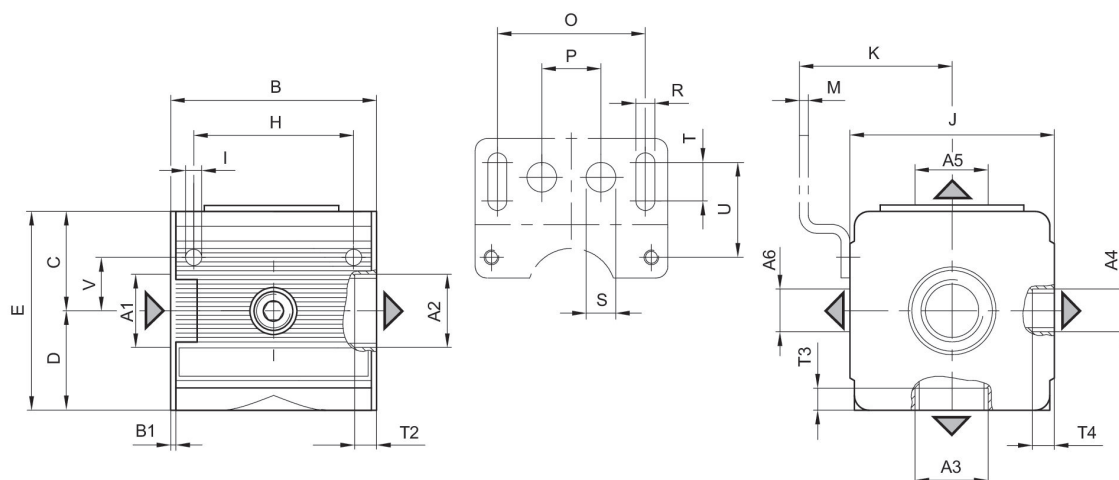
Distributor, Series NL2-DIS

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

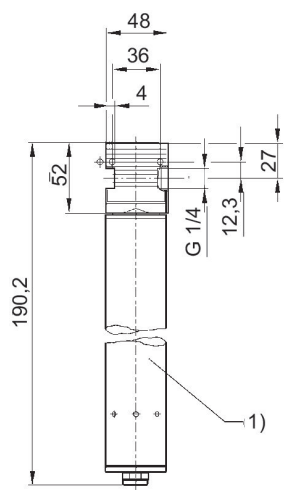
Working pressure min./max.: 4 bar ... 12.5 bar



| | 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

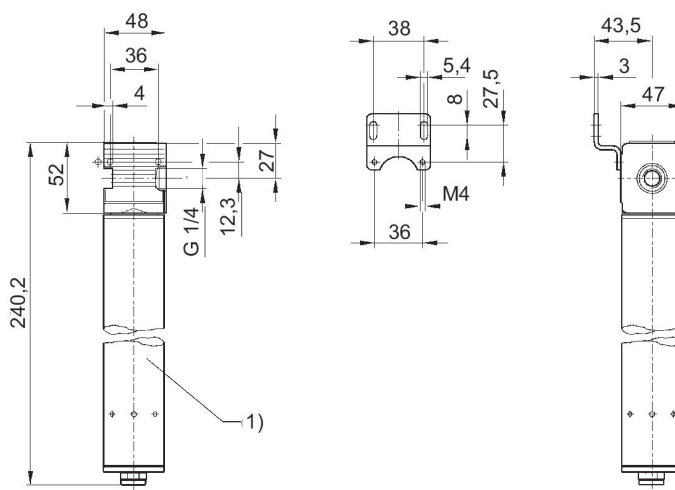
Dimensions in mm



1) Diaphragm-type dryer

R412004243

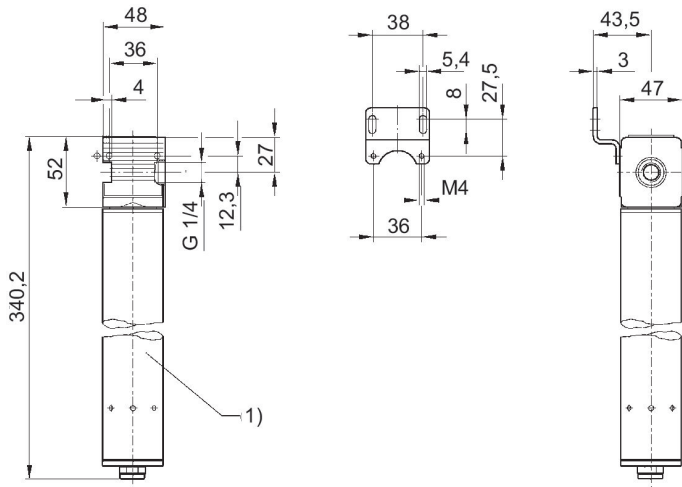
Dimensions in mm



1) Diaphragm-type dryer

R412004245

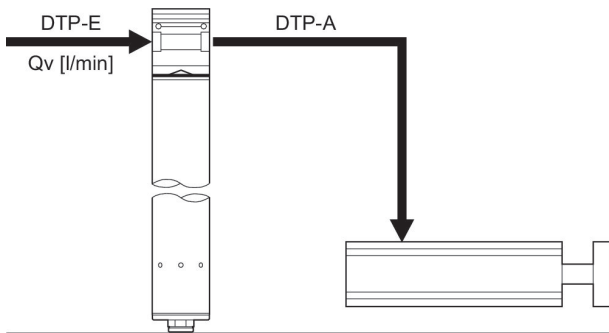
Dimensions in mm



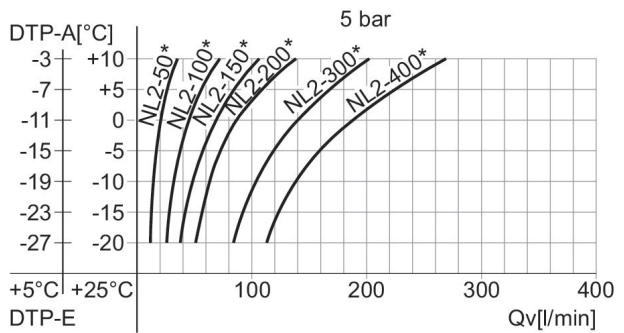
1) Diaphragm-type dryer

Example

Wanted:

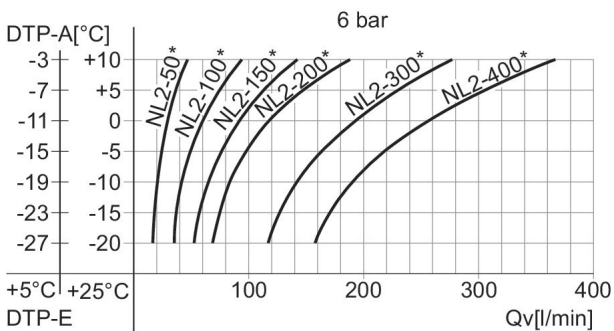


Performance charts



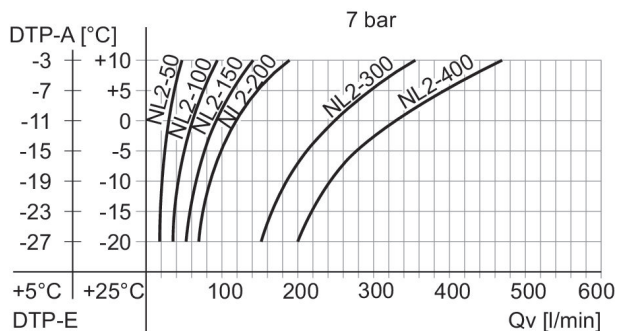
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

Performance charts



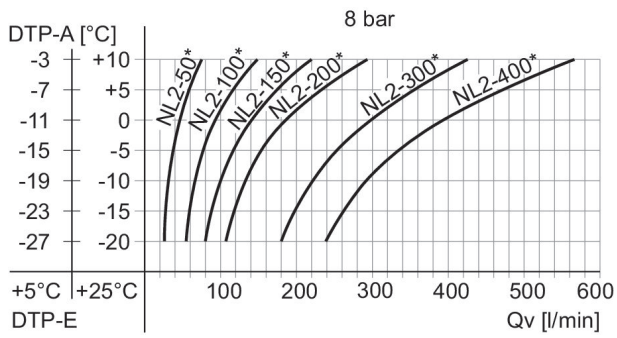
DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).
* Nominal flow Qn

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

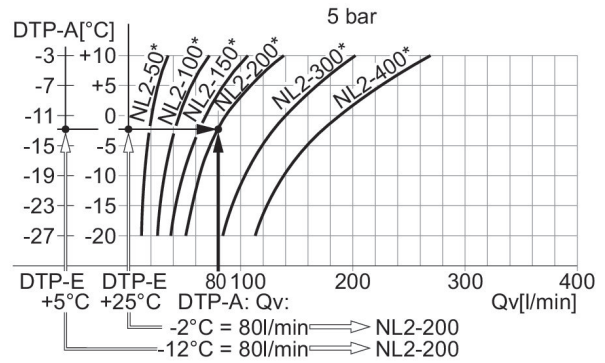


DTP-E: pressure dew point input, DTP-A: pressure dew point output, Qv: input flow rate (output flow rate + purge air).

* 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 [cm ³] | 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

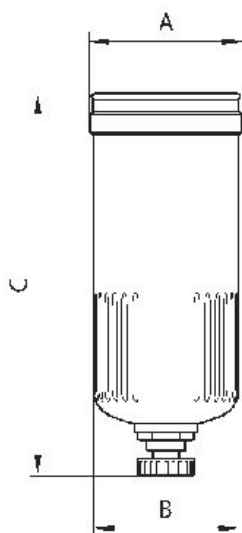


Fig. 2

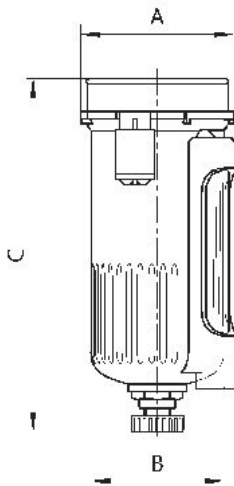


Fig. 3

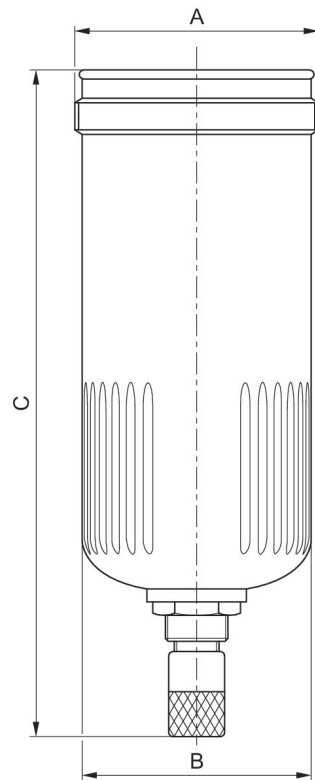
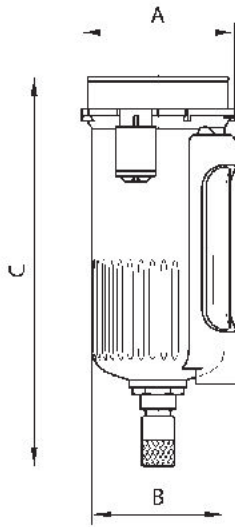


Fig. 4



| 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 |

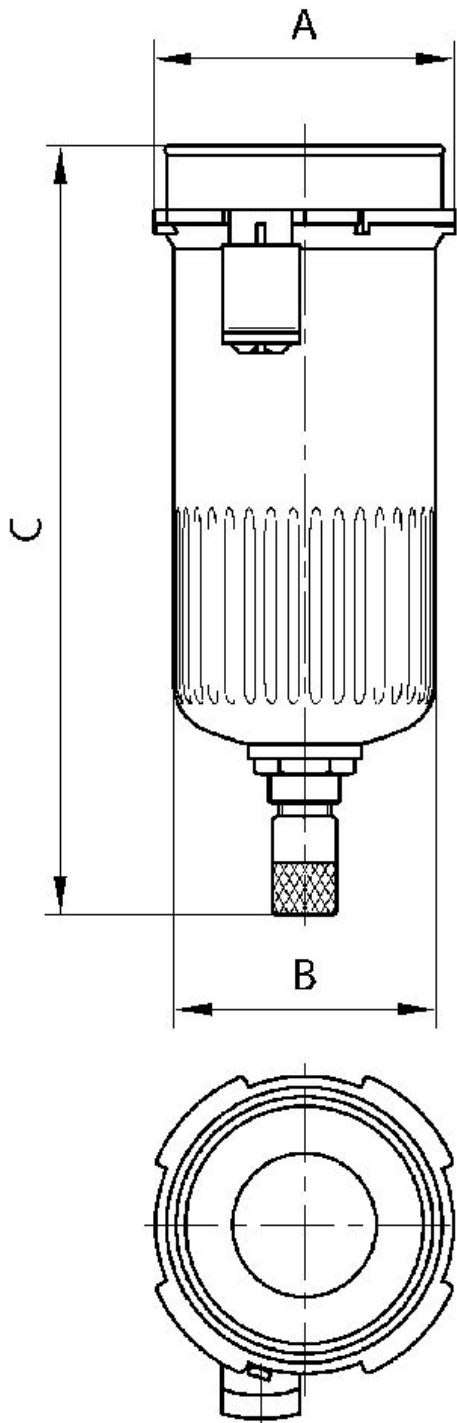
Reservoir, Series NL2-CLC

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



| Conden- sate drain | Filter reser- voir volume [cm ³] | Version | Part No. |
|--|--|--|------------|
| fully automat- ic, open with- out pressure | 25 | Metal reser- voir without window | 1827009600 |

Dimensions



| Part No. | A | B | C |
|------------|------|------|-----|
| 1827009600 | 42.5 | 33.2 | 137 |

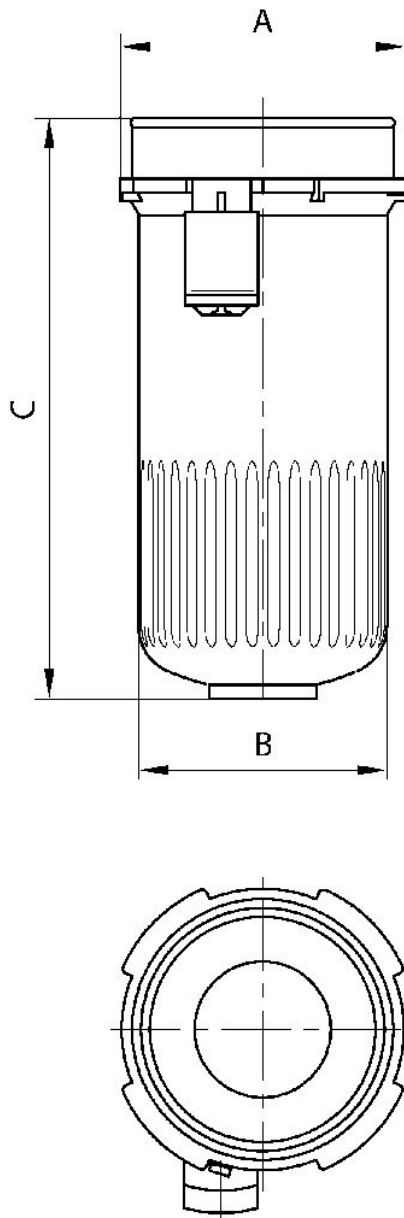
Reservoir, Series NL2-CLA

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 [cm ³] | Version | Part No. |
|--|--------------------------------|------------|
| 130 | Metal reservoir without window | 1827009606 |

Dimensions



| Part No. | A | B | C |
|------------|------|------|-----|
| 1827009606 | 42.5 | 33.2 | 100 |

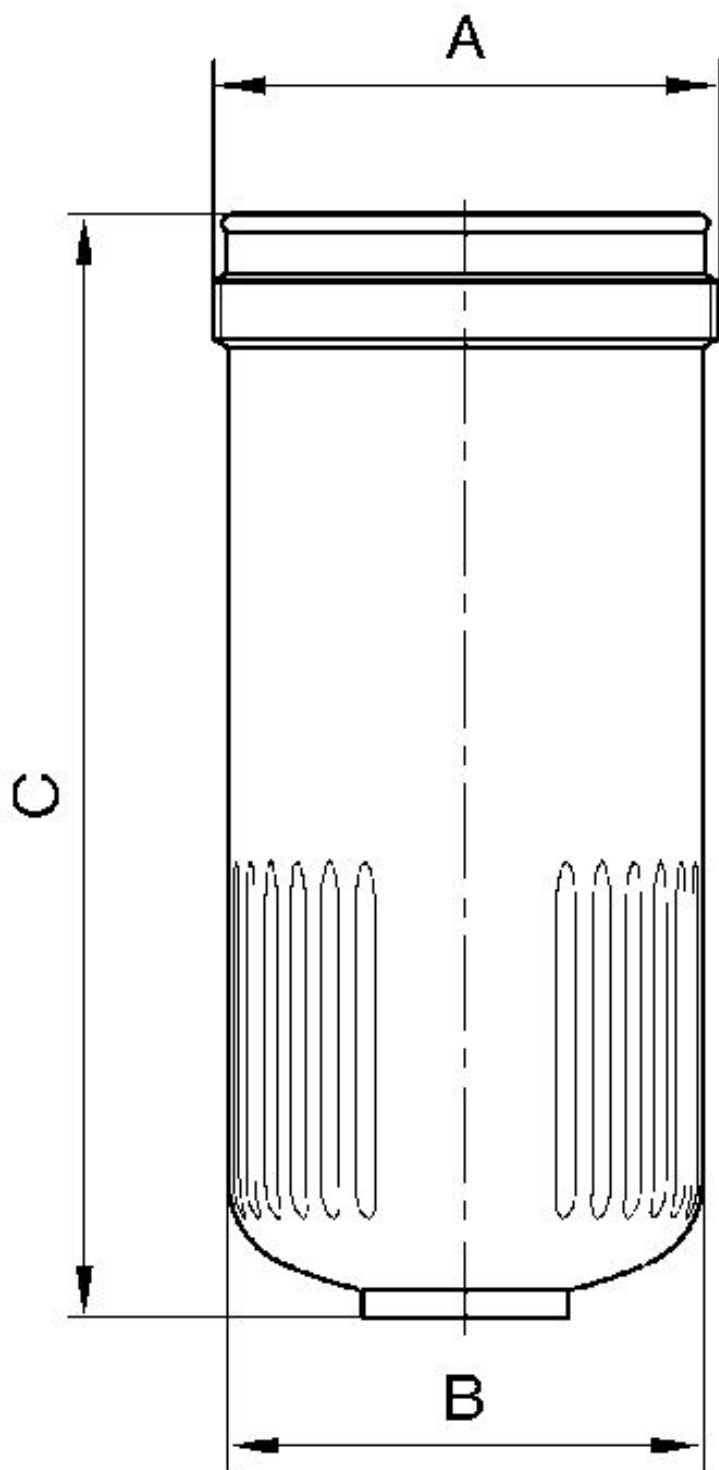
Reservoir, Series NL1/AS1-CBM/-CLA/-CBM

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 [cm ³] | Version | Part No. |
|--|--|------------|
| 16 | reservoir, polycarbonate, without protective guard | 1827009333 |

Dimensions



Dimensions in mm

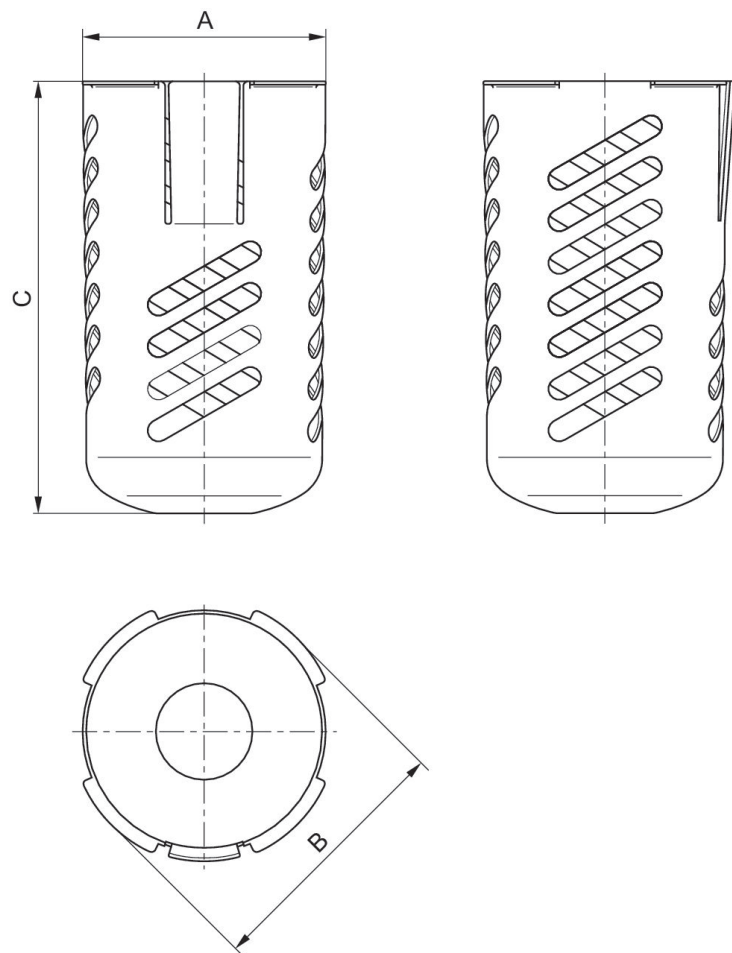
| Part No. | A | B | C |
|------------|---------|----|-----|
| 1827009333 | M36x1.5 | 30 | 100 |

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

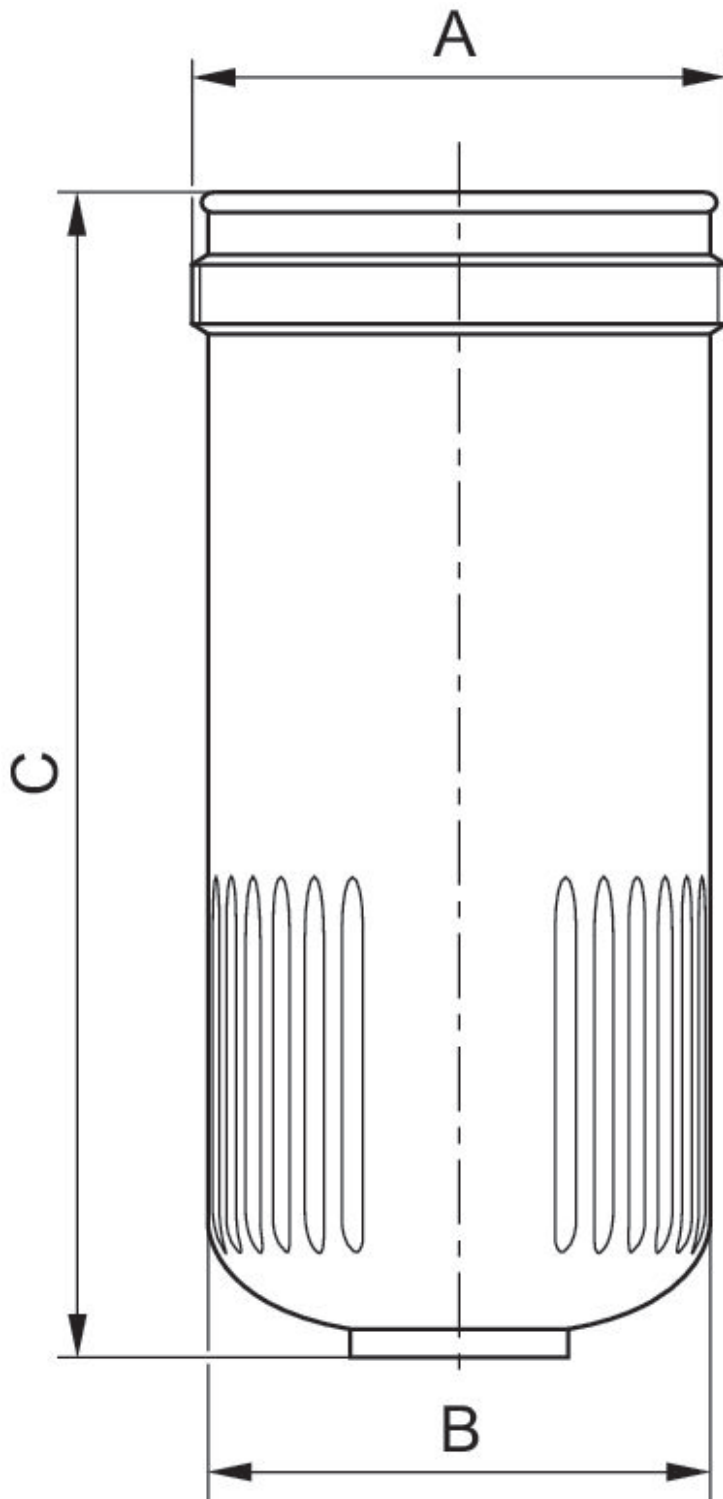


Fig. 2

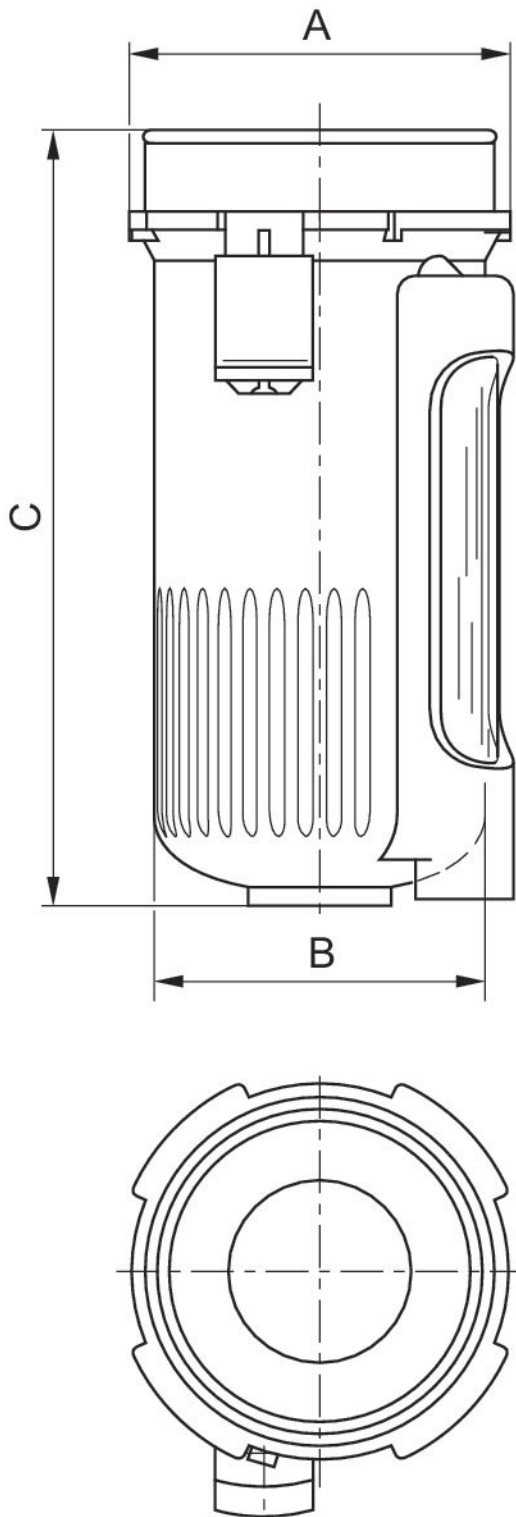
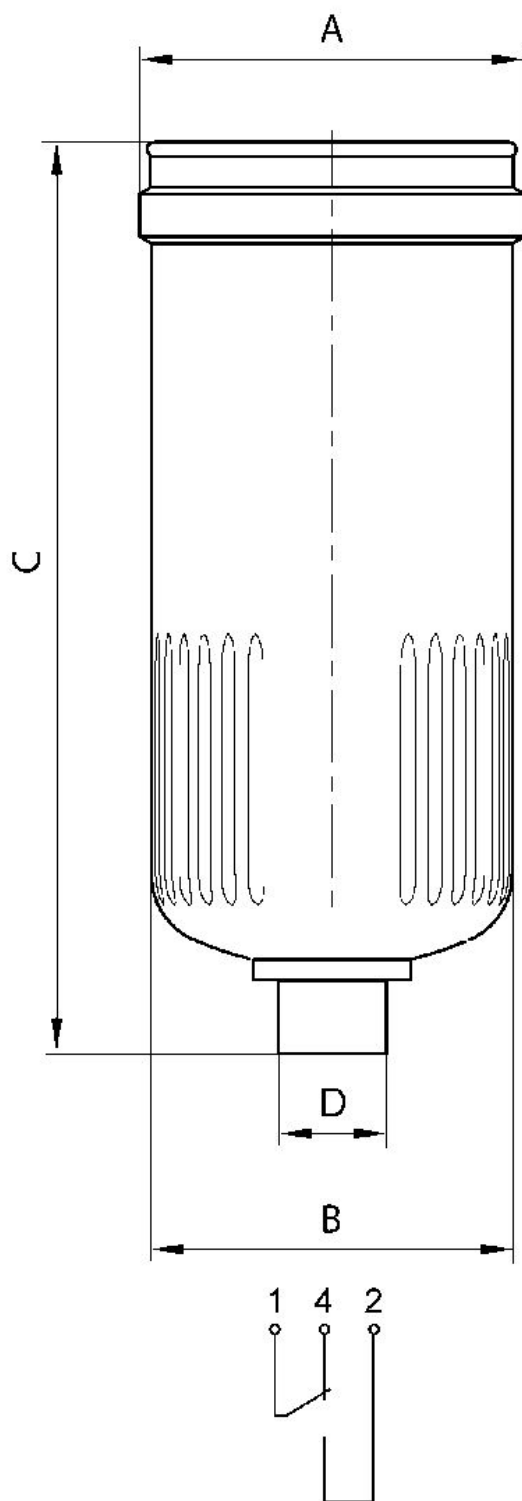


Fig. 3



| 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

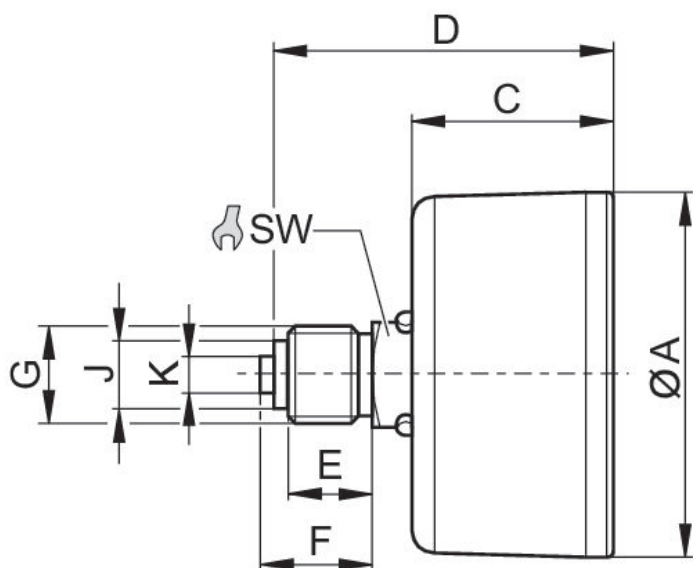
Background color: White
 Scale color: Black
 Material viewing window: Polystyrene
 Main scale unit (outside): bar
 Standardization: EN 837-1



| 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

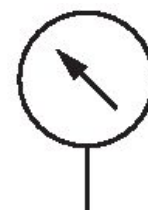


| Part No. | Compressed air connection | Nominal diameter | Ø A | C | D | E | F | J | K |
|------------|---------------------------|------------------|-----|------|------|----|----|-----|---|
| 1827231075 | G 1/8 | 50 mm | 49 | 26.5 | 41.5 | 8 | 10 | 8 | - |
| R412003474 | G 1/4 | 50 mm | 49 | 26.5 |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

| Part No. | SW |
|------------|----|
| 1827231075 | 14 |
| R412003474 | 14 |

Pressure gauge, Series PG1-SNL

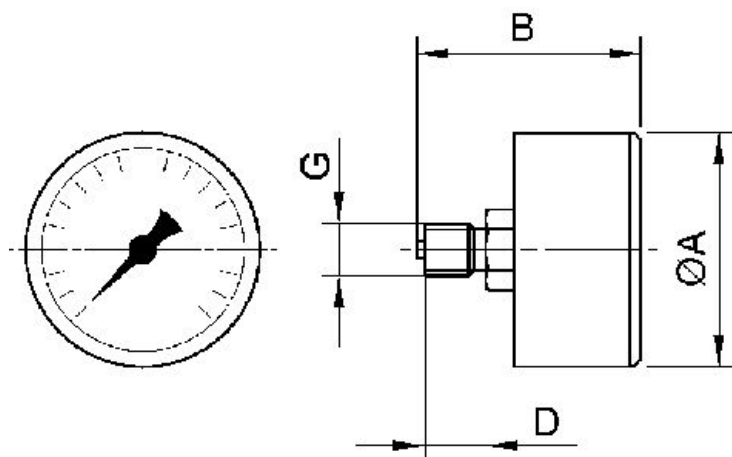
Background color: Black
 Scale color: Green
 Material viewing window: Mineral glass
 Main scale unit (outside): bar
 Secondary scale unit (inside): psi
 Standardization: EN 837-1



| 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

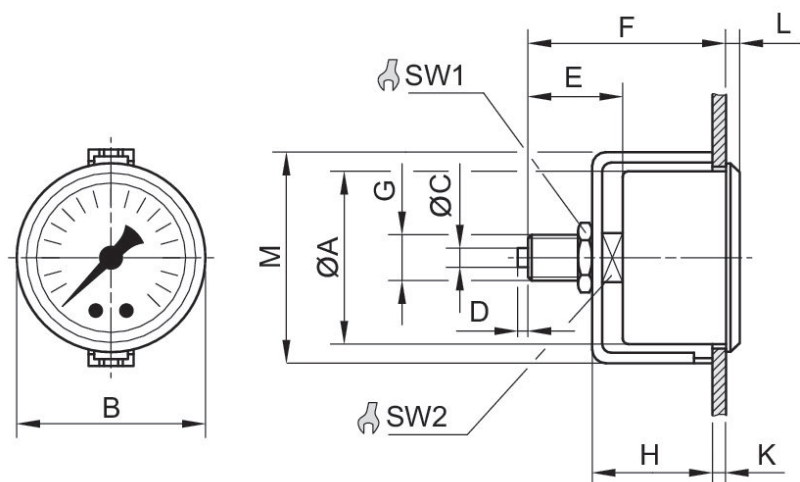
Type: Bourdon tube pressure gauge, For panel installation, with U-clip
 Background color: Black
 Scale color: Green
 Material viewing window: Polystyrene
 Main scale unit (outside): bar
 Secondary scale unit (inside): psi
 Standardization: EN 837-1



| 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



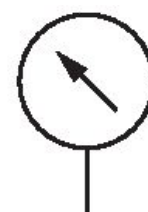
Dimensions in mm

| 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

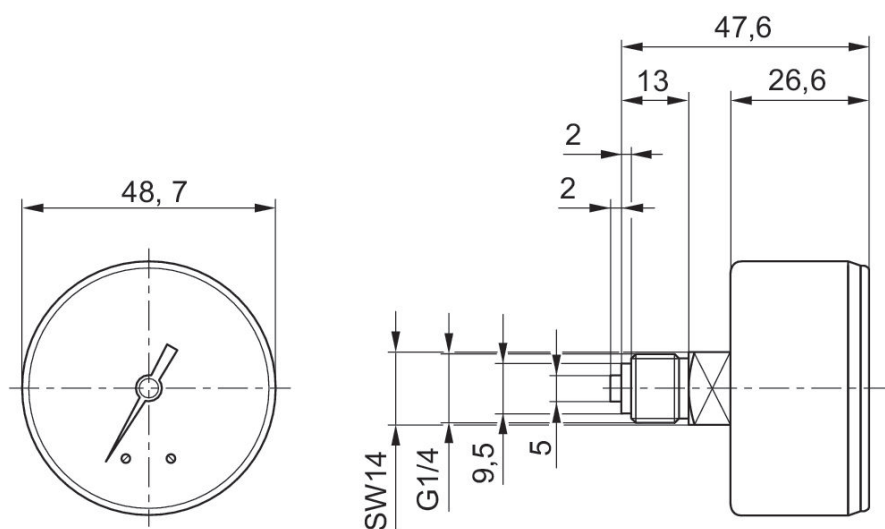
Background color: Black
 Scale color: Green
 Material viewing window: Polystyrene
 Main scale unit (outside): bar
 Secondary scale unit (inside): psi
 Standardization: EN 837-1



| 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 |

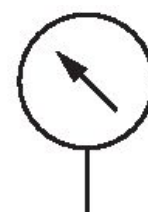
| Scale value | Part No. |
|-------------|------------|
| 0.05 | 1827231023 |

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

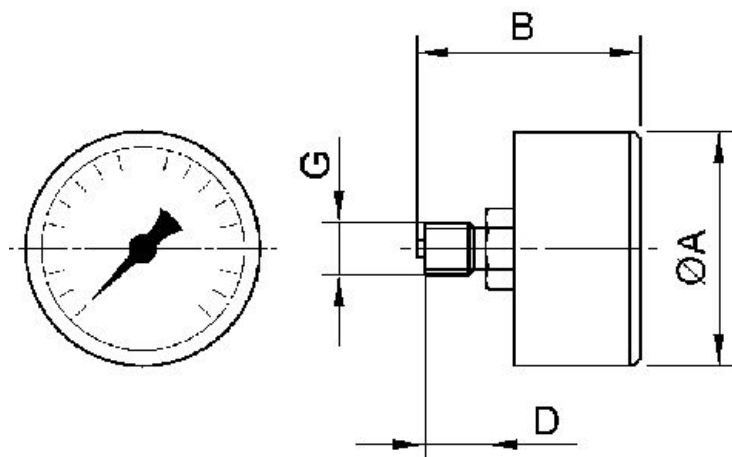


| Nominal diameter [mm] | Port | Min. main scale range of application [bar] | Max. main scale range of application [bar] | Min. main scale display range [bar] | Max. main scale display range [bar] | Min. working pressure [bar] | Max. working pressure [bar] | Part No. |
|-----------------------|-------|--|--|-------------------------------------|-------------------------------------|-----------------------------|-----------------------------|------------|
| 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

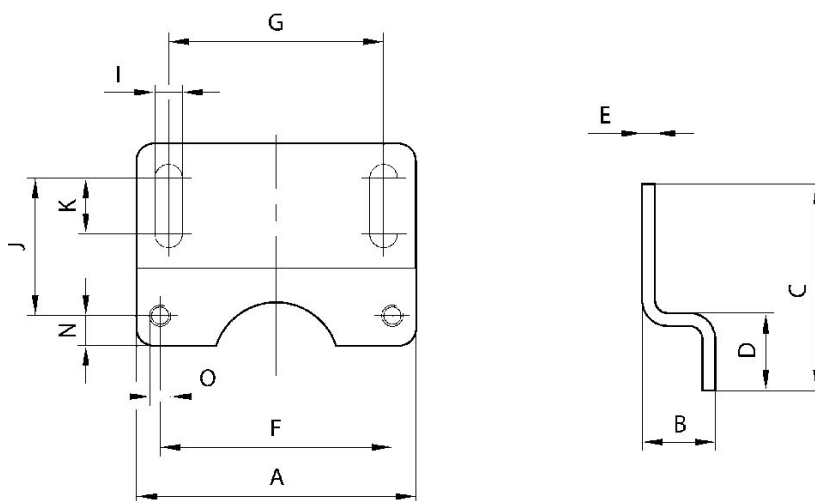
| Part No. | G | Nominal diameter | Ø A | B | D |
|------------|-------|------------------|-----|------|----|
| 1827231059 | G 1/4 | 40 mm | 41 | 41.5 | 10 |
| 1827231016 | G 1/4 | 50 mm | 49 | 47.5 | 13 |

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 |

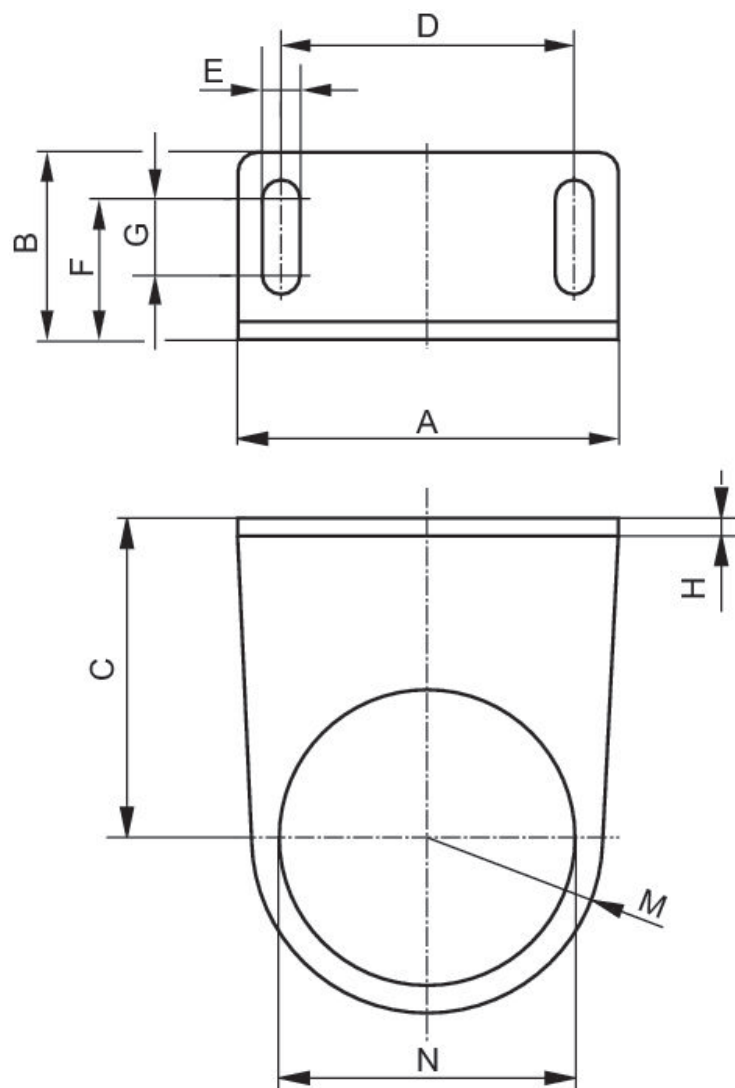
Mounting bracket, Series NL1/NL2-MBR-...-W02

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



| Material | Part No. |
|------------------------------|------------|
| Steel, chrome-plat- ed | 1821331013 |

Dimensions



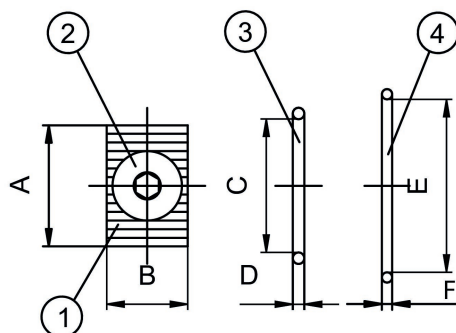
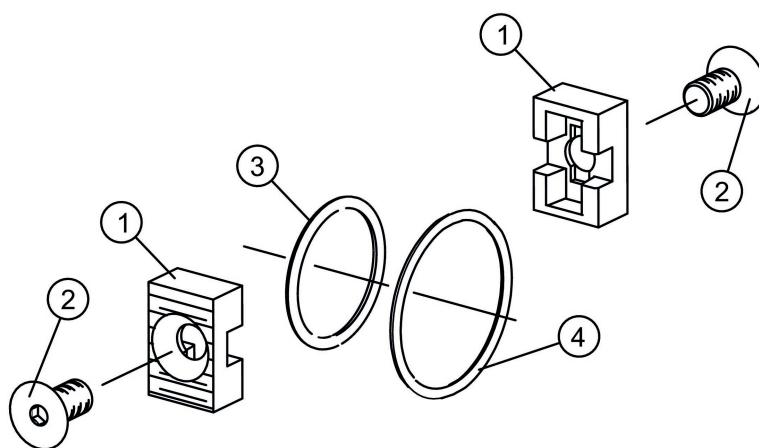
| Part No. | A | B | C | D | E | F | G | H | M |
|------------|----|----|------|----|-----|------|---|---|----|
| 1821331013 | 48 | 27 | 43.5 | 38 | 5.4 | 18.5 | 8 | 3 | 20 |

| 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

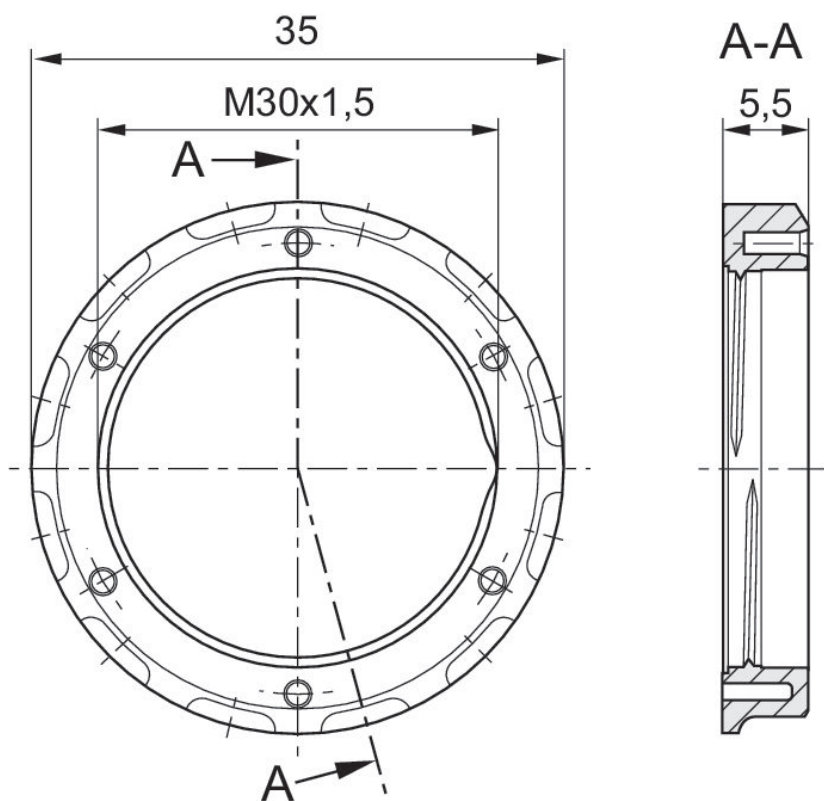
| Part No. | A | B | C | D | E | F |
|------------|------|------|------|------|-------|------|
| 1827009359 | 14.8 | 12.7 | 15.6 | 1.78 | 19.22 | 1.78 |

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



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

Dimensions in mm

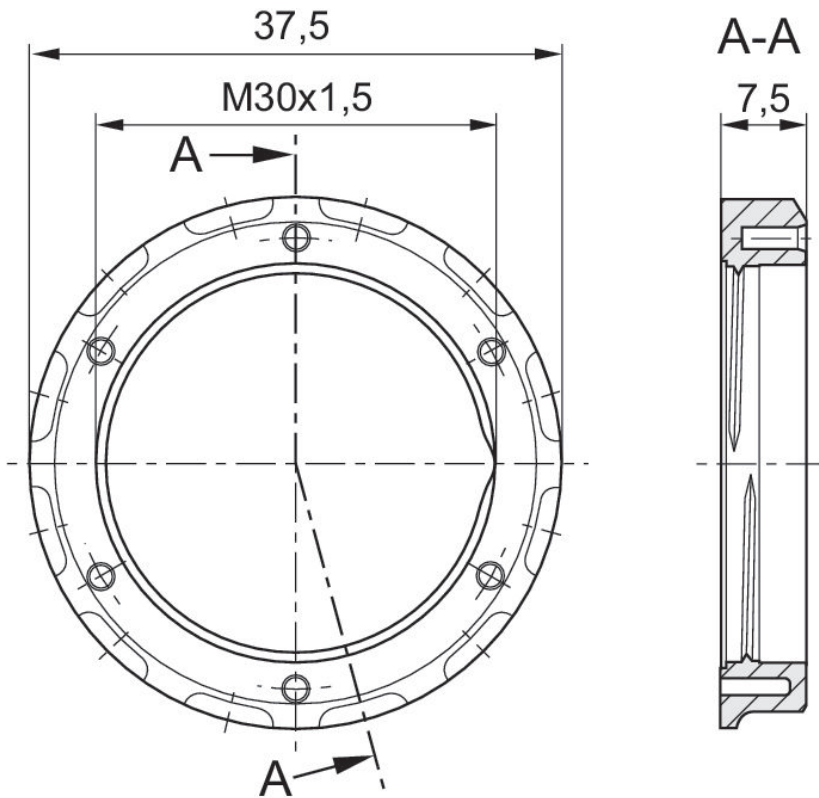


Panel nut, Series AS-MBR-...-W06



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

Dimensions



AVENTICS Series SI1 Silencers

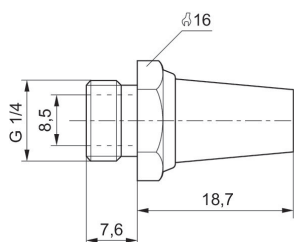
Compressed air connection type: External thread
 Silencer material: Sintered bronze
 Ambient temperature min./max.: -25 °C ... 80 °C
 Working pressure min./max.: 0 bar ... 10 bar



| 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 |

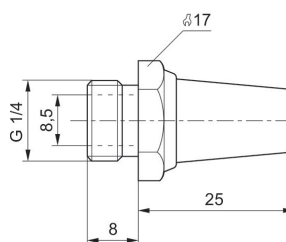
R412004817

Dimensions in mm



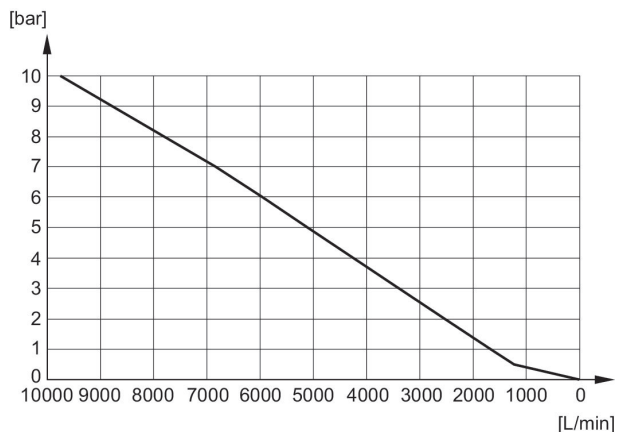
1827000001

Dimensions in mm



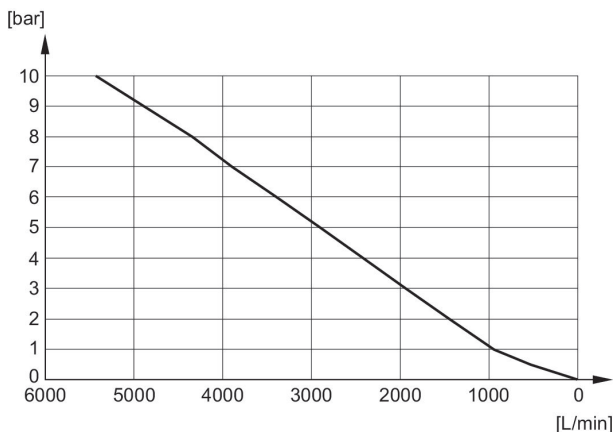
Flow diagram

R412004817



Flow diagram

1827000001



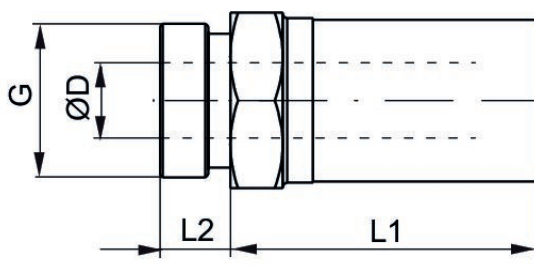
AVENTICS Series SI1 Silencers

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 |

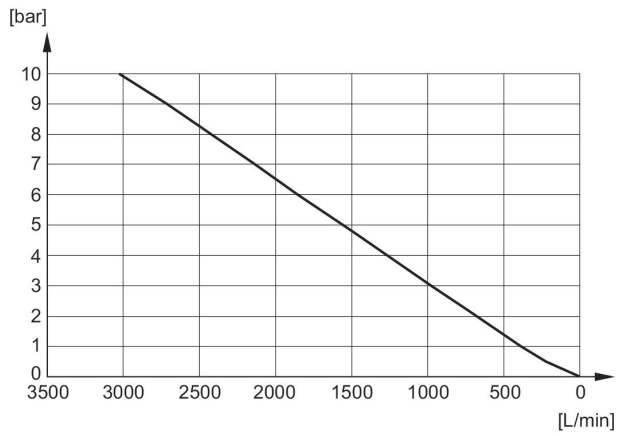
Dimensions



| 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



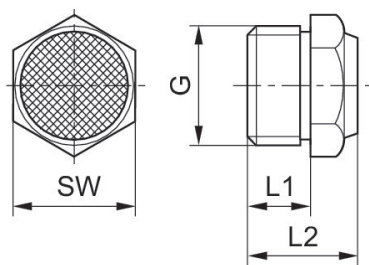
AVENTICS Series SI1 Silencers

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 |

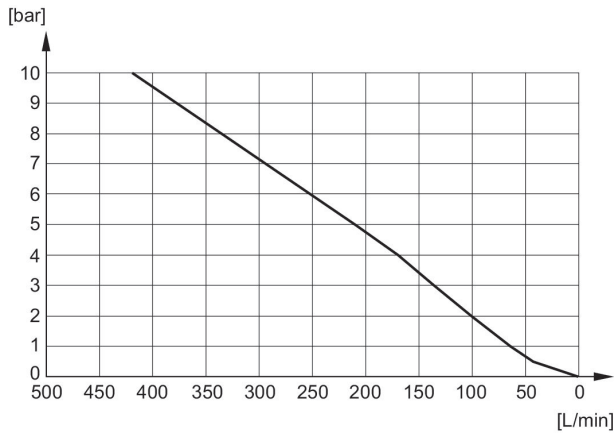
Dimensions



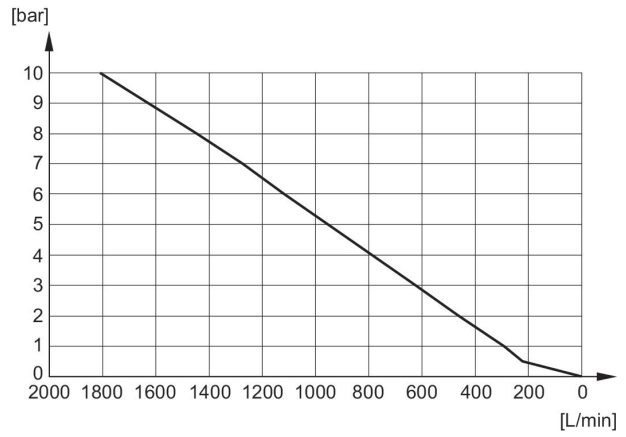
| Part No. | Port G | L1 | L2 | SW |
|------------|--------|----|------|----|
| 1827000032 | M5 | 5 | 10.3 | 7 |
| 1827000031 | G 1/8 | 6 | 11.5 | 13 |
| 1827000033 | G 1/4 | 8 | 13.5 | 17 |
| 1827000034 | G 3/8 | 10 | 17.5 | 22 |
| 1827000035 | G 1/2 | 12 | 19.5 | 27 |
| 8145003400 | G 3/4 | 14 | 22.5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

Sound pressure level measured at 6 bar at 1 m distance

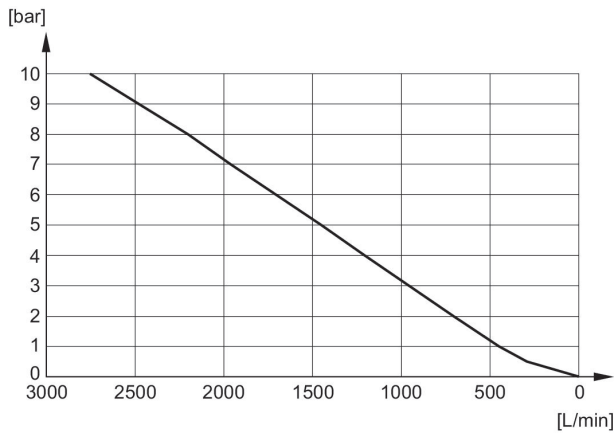
Flow diagram 1827000032



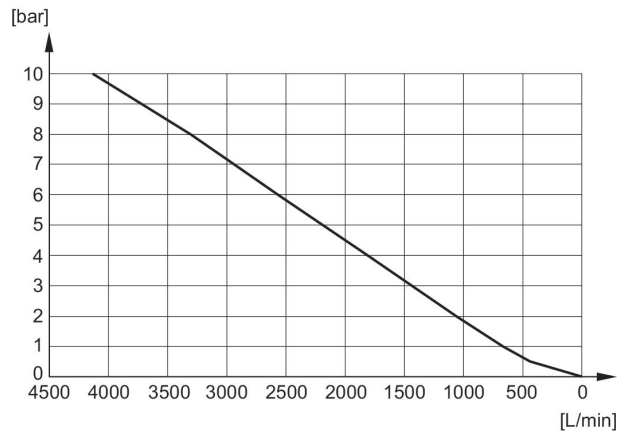
Flow diagram 1827000033



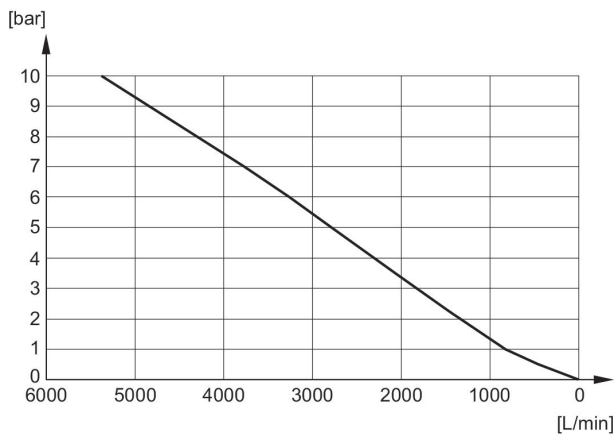
Flow diagram 1827000034



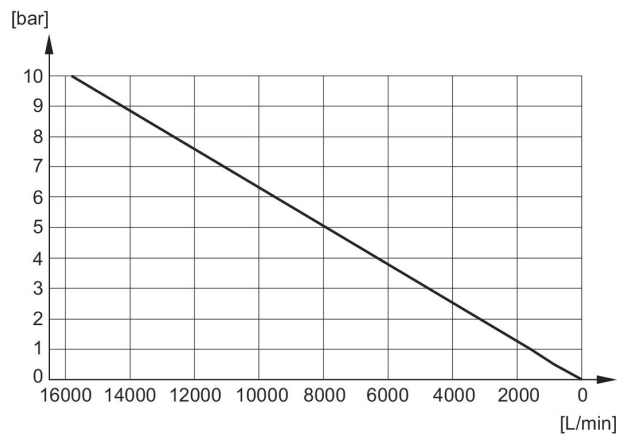
Flow diagram 1827000035



Flow diagram 8145003400



Flow diagram 8145001000



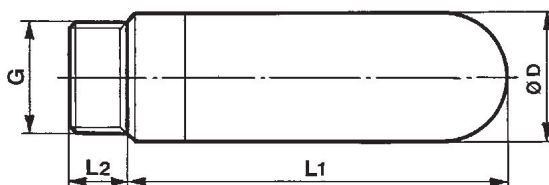
AVENTICS Series SI1 Silencers

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 |

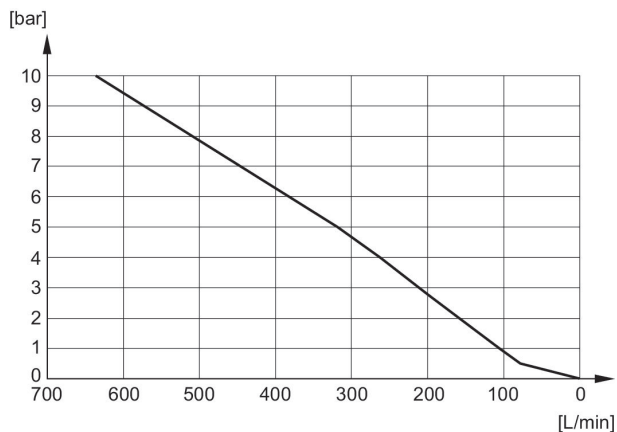
Dimensions



| 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 |

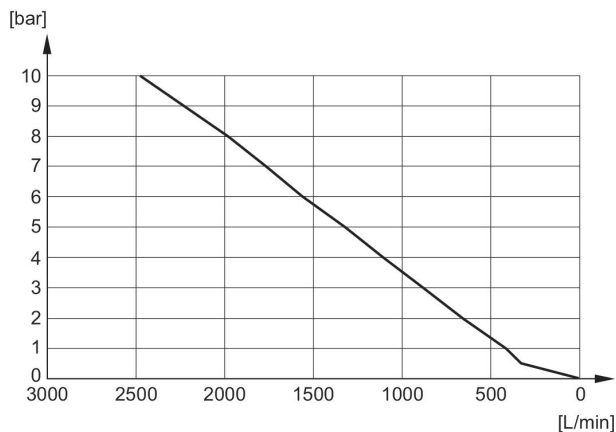
Flow diagram

1827000018



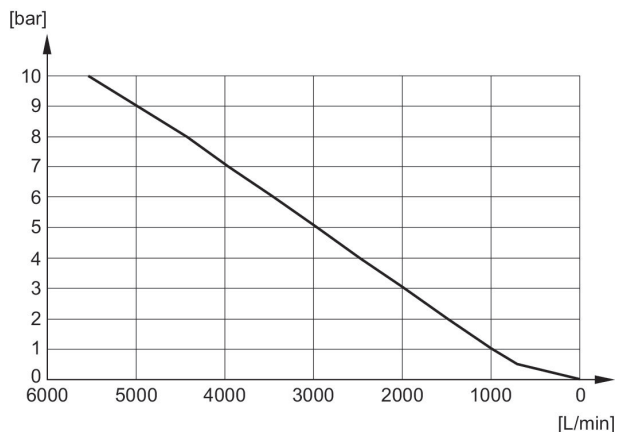
Flow diagram

1827000019



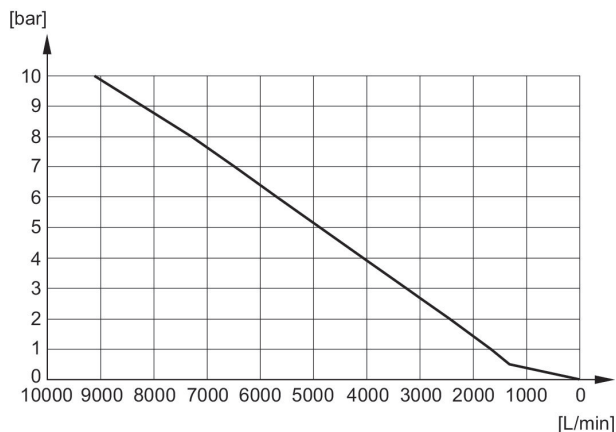
Flow diagram

1827000020



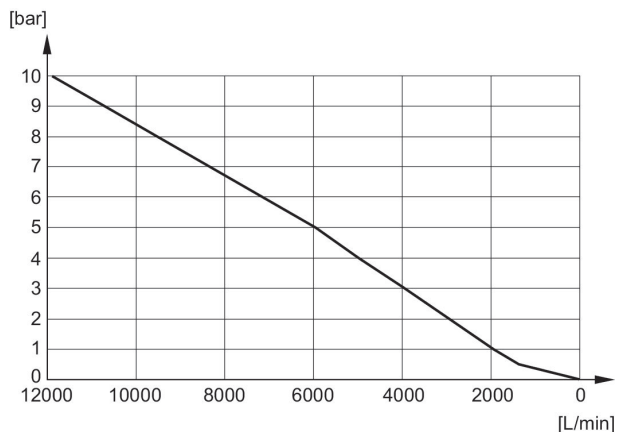
Flow diagram

1827000021



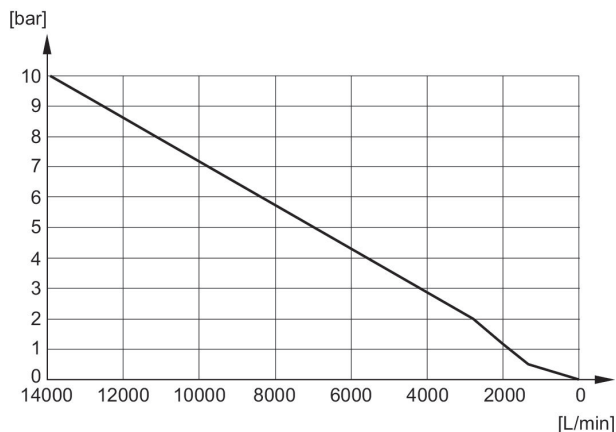
Flow diagram

1827000022



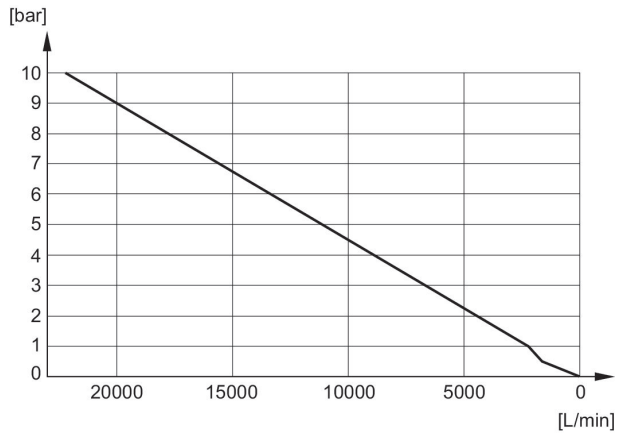
Flow diagram

1827000023



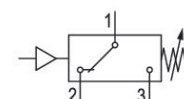
Flow diagram

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 over-pressure | 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 |

Max. permissible continuous current I_{max} [A] with inductive load

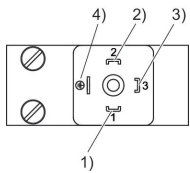
| U [V] | I [A] 1) 3) | I [A] 2) 4) |
|--------------------|-------------|--------------------------|
| 30-250 | 3 | - |
| 30 / 48 / 60 / 125 | - | 2 / 0,55 / 0,4 / 0,05 |

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

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

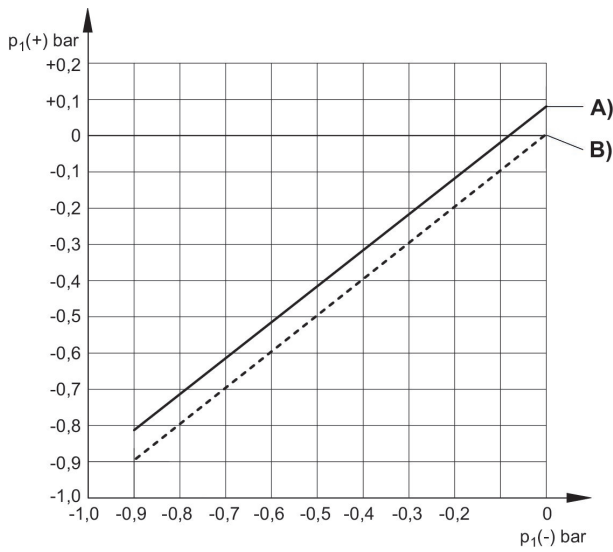
R412010711, R412010713, R412022752

PIN assignment for valve plug connectors



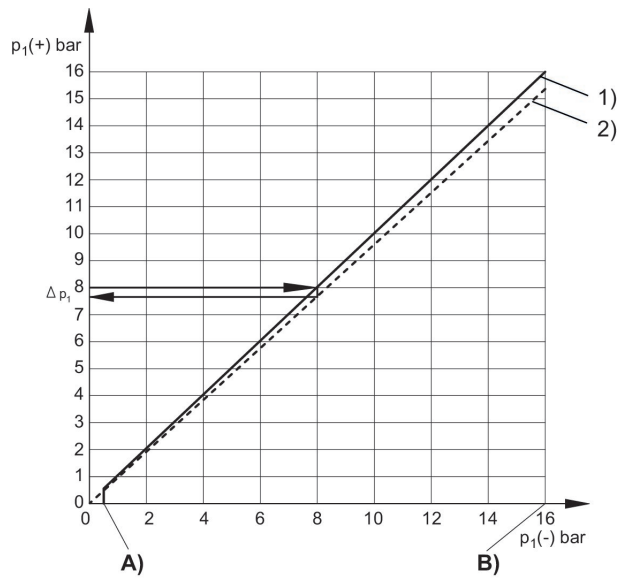
| Pin | Allocation |
|-----|-------------------|
| 1 | +UB |
| 2 | break contact |
| 3 | NO (make contact) |
| 4 | GND |

Differential switching pressure characteristic curve (-0,9 Differential switching pressure characteristic curve (0,2 - 0 bar)



A) $p_1(-)$, min.
 B) $p_1(-)$, max.
 $p_1(+)$ = upper switching pressure with increasing pressure
 $p_1(-)$ = lower switching pressure with decreasing pressure

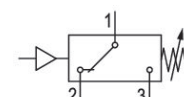
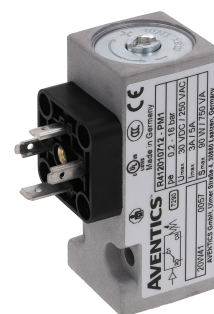
Differential switching pressure characteristic curve (0,2 - 16 bar)



A) $p_1(-)$, min.
 B) $p_1(-)$, max.
 1) Rising
 2) Falling
 $p_1(+)$ = upper switching pressure with increasing pressure
 $p_1(-)$ = lower switching pressure with decreasing pressure
 Δp_1 = max. operating pressure difference or hysteresis Example: $p_1(+)$ = 8 bar > $p_1(-)$ = 7,6 bar Δp_1 = 0,4 bar

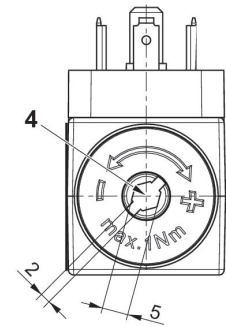
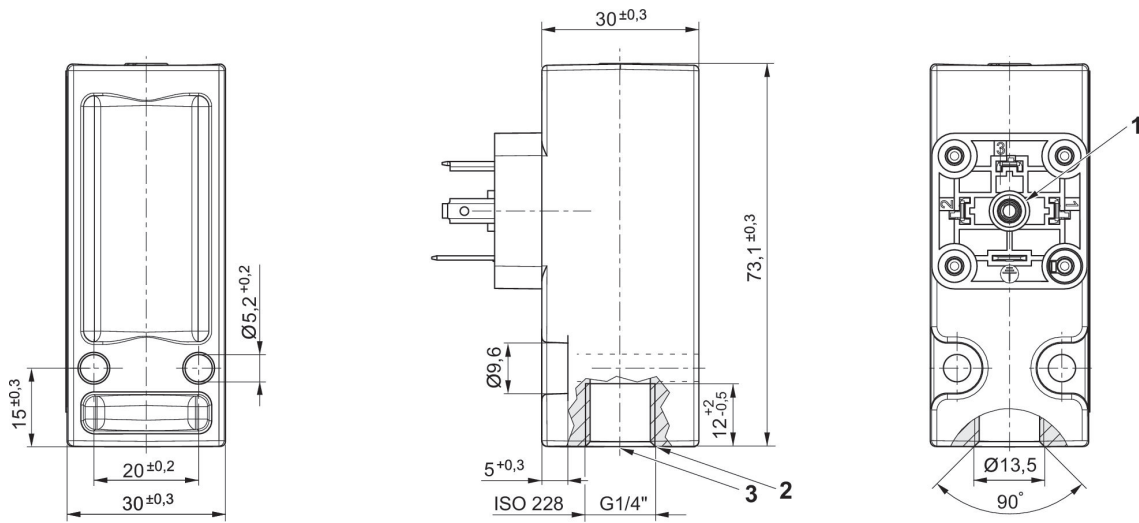
Pressure Switches, Series PM1

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 over-pressure | 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

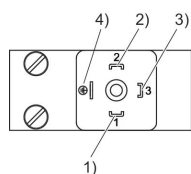
| U [V] | I [A] 1) | I [A] 2) |
|--------------------|----------|------------------------|
| 30-250 | 5 | - |
| 30 / 48 / 60 / 125 | - | 3 / 1,2 / 0,8 / 0,4 |

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

- 1) AC
- 2) DC

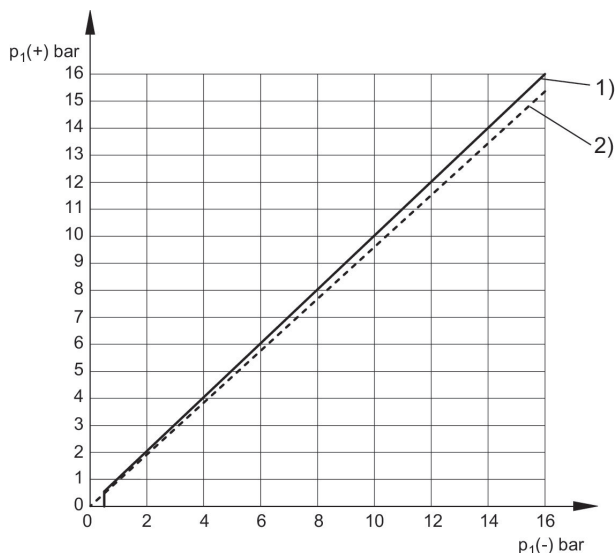
R412010712

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)

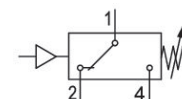
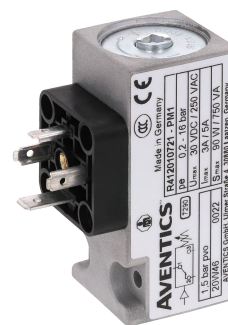


$p_1(+)$ = upper switching pressure with increasing pressure
 $p_1(-)$ = lower switching pressure with decreasing pressure

- 1) Rising
- 2) Falling

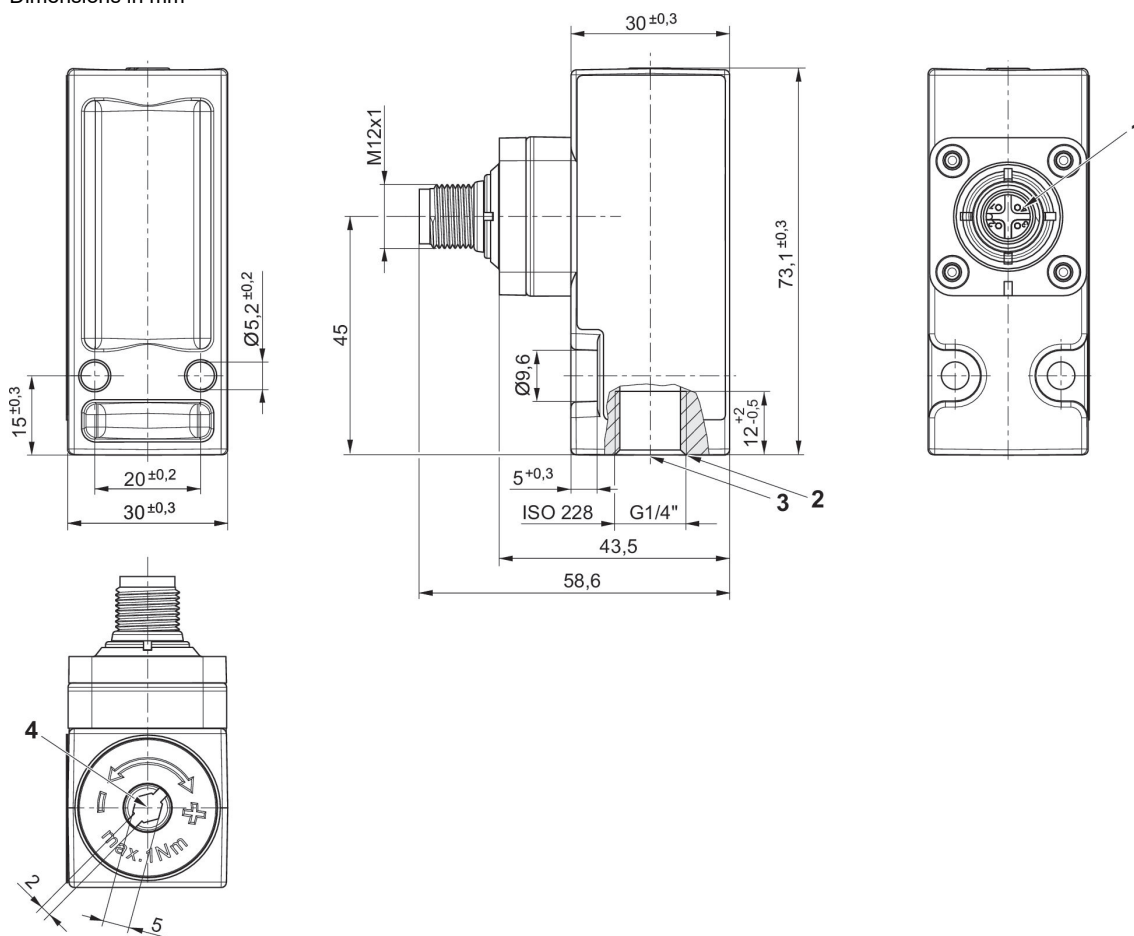
Pressure Switches, Series PM1

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 over-pressure | 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 |

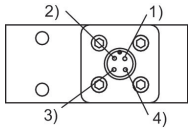
reference cycle: 30/min., reference temperature: +30 °C

- 1) AC
- 2) DC

R412010717

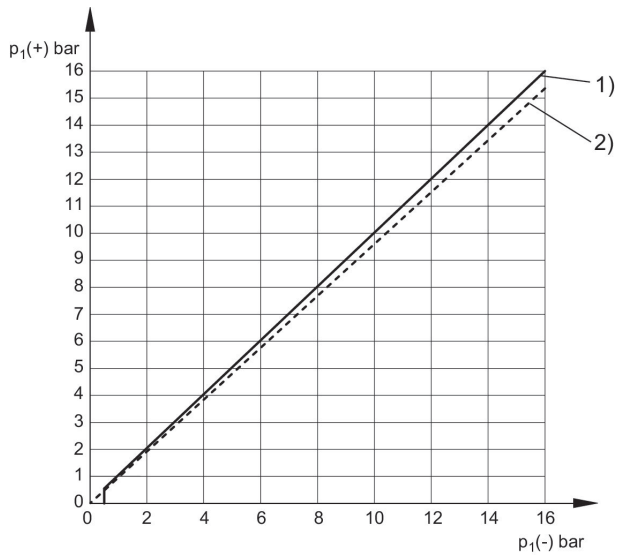
Pin assignments

M12x1



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

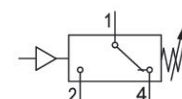
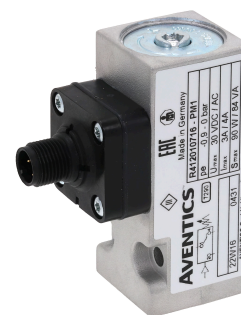
Differential switching pressure characteristic curve (0,2 - 16 bar)



$p_{1 (+)}$ = upper switching pressure with increasing pressure
 $p_{1 (-)}$ = lower switching pressure with decreasing pressure
 1) Rising
 2) Falling

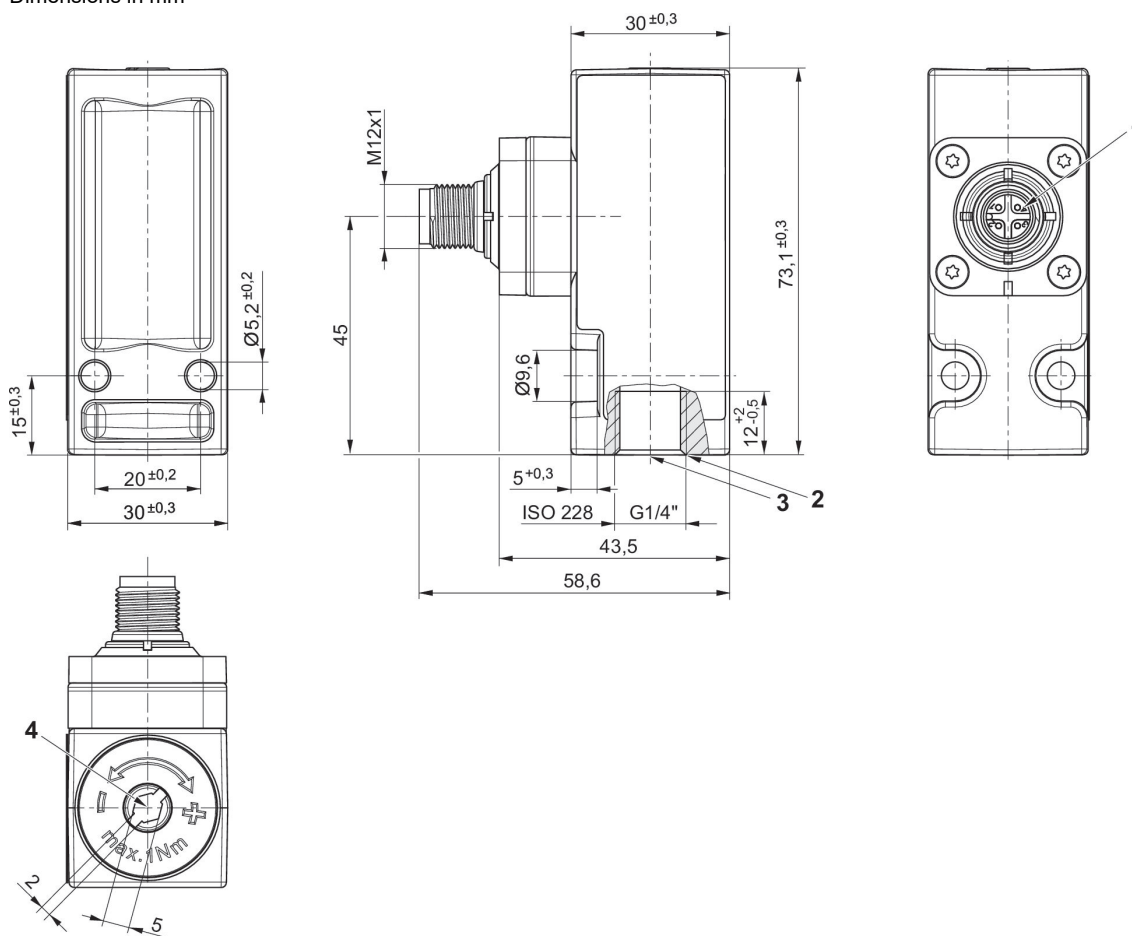
Pressure Switches, Series PM1

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 over-pressure | 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 |

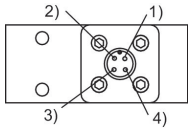
reference cycle: 30/min., reference temperature: +30 °C

- 1) AC
- 2) DC

R412010716

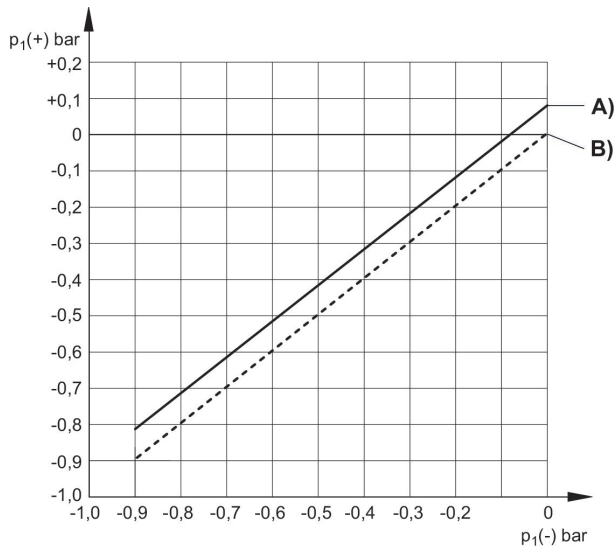
Pin assignments

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) $p_1(-)$, min.

B) $p_1(-)$, max.

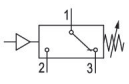
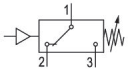
$p_1(+)$ = upper switching pressure with increasing pressure

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

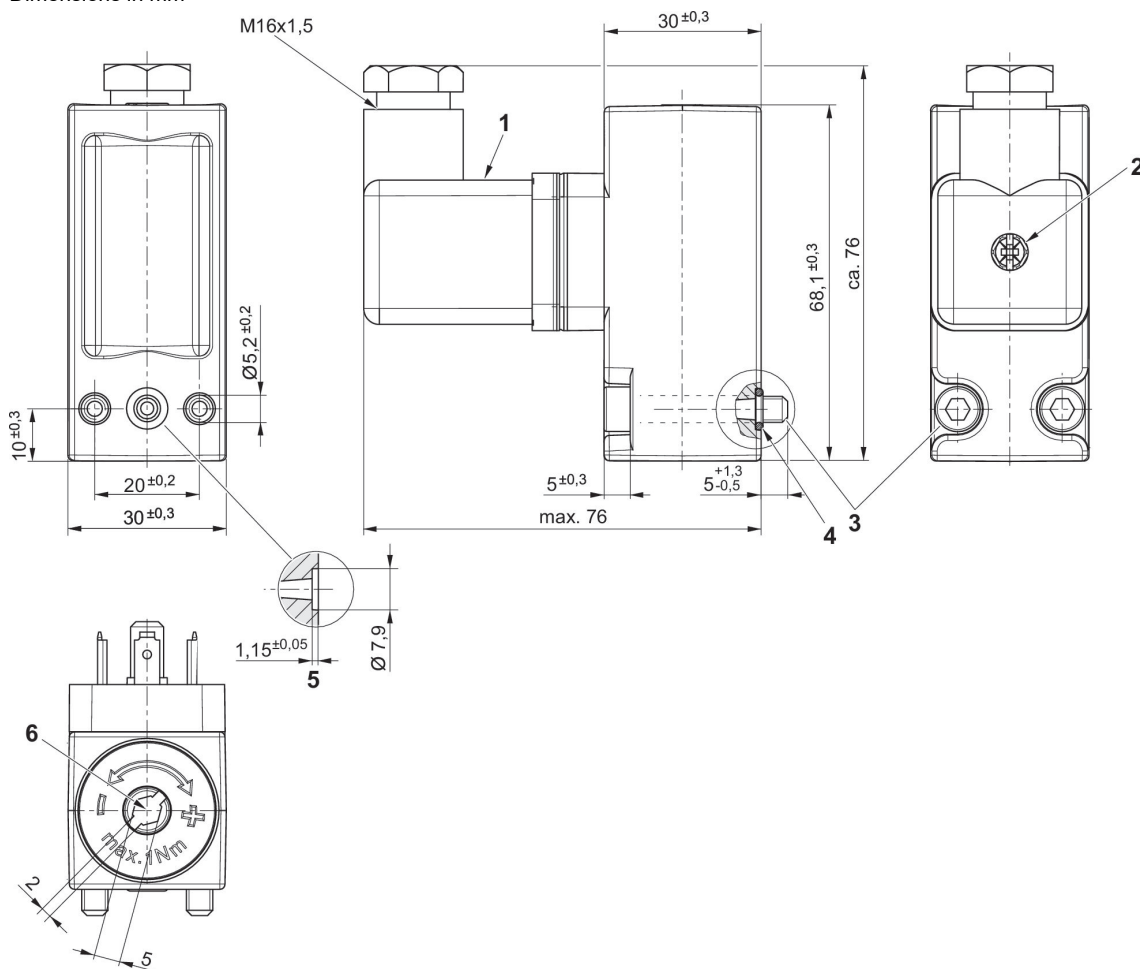
Pressure Switches, Series PM1

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

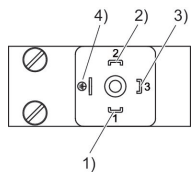
| U [V] | I [A] 1) | I [A] 2) |
|--------------------|----------|------------------------|
| 30-250 | 5 | - |
| 30 / 48 / 60 / 125 | - | 3 / 1,2 / 0,8 / 0,4 |

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

- 1) AC
- 2) DC

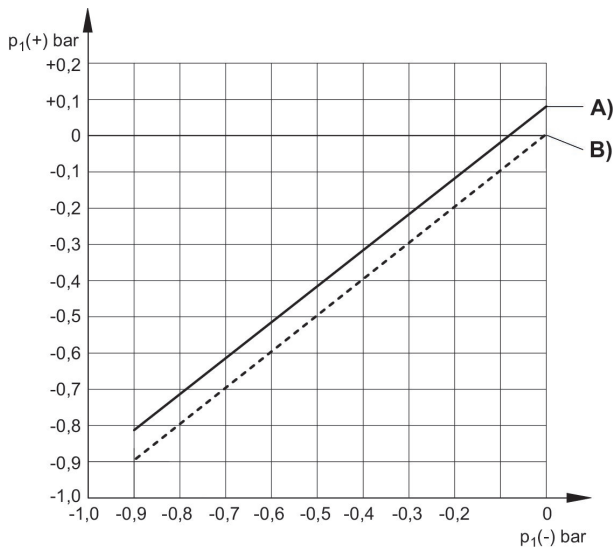
R412010714, R412010718

PIN assignment for valve plug connectors

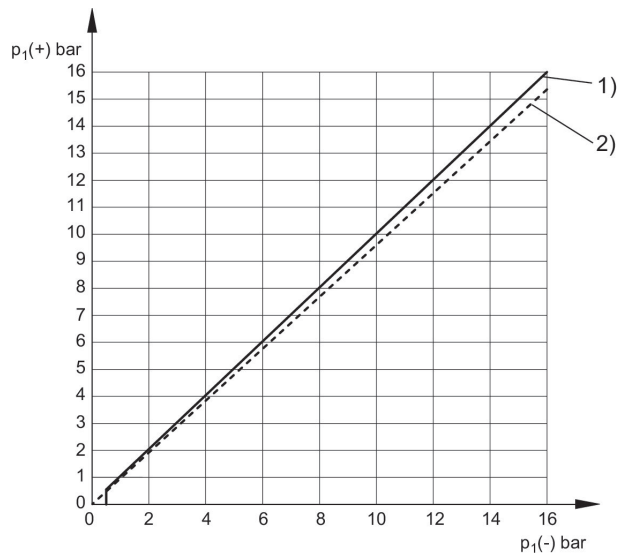


| Pin | Allocation |
|-----|-------------------|
| 1 | +UB |
| 2 | break contact |
| 3 | NO (make contact) |
| 4 | GND |

Differential switching pressure characteristic curve (-0,9 - 0 bar) Differential switching pressure characteristic curve (0,2 - 16 bar)



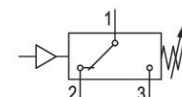
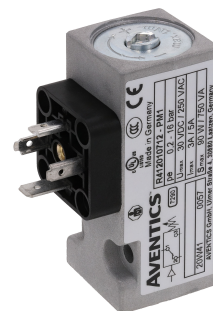
- A) p₁ (-), min.
- B) p₁ (-), max.
- p₁ (+) = upper switching pressure with increasing pressure
- p₁ (-) = lower switching pressure with decreasing pressure



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

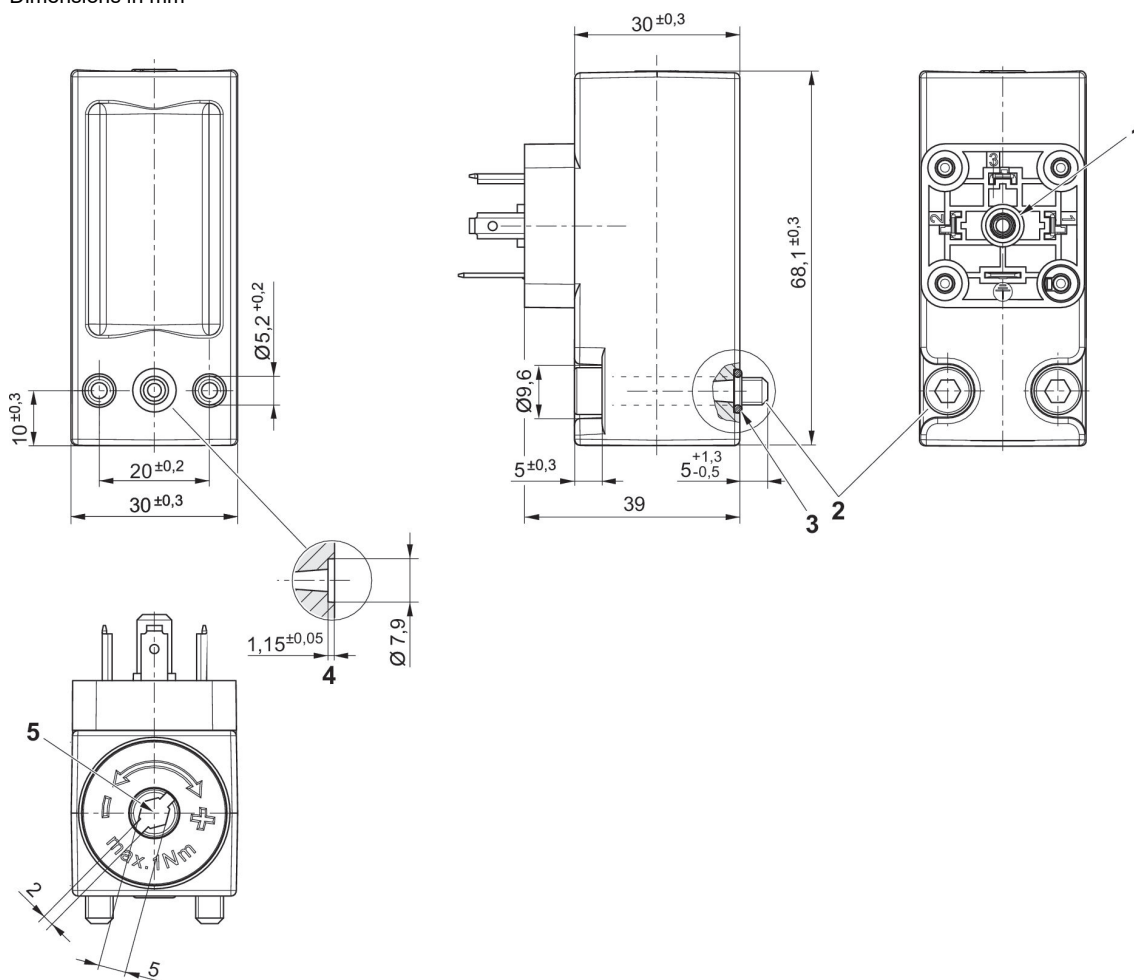
Pressure Switches, Series PM1

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 over-pressure | 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

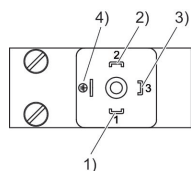
| U [V] | 30-250 | 30 / 48 / 60 / 125 |
|-------------|--------|--------------------------|
| I [A] 1) 3) | 3 | - |
| I [A] 2) 4) | - | 2 / 0,55 / 0,4 / 0,15 |

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

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

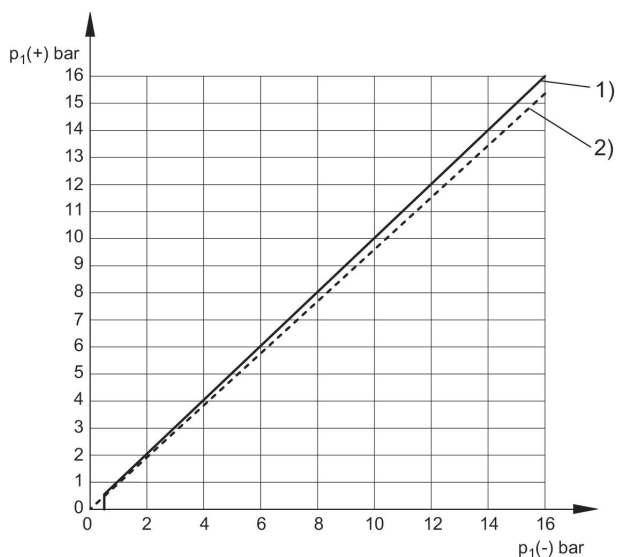
R412010715

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)

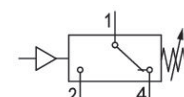


$p_1 (+)$ = upper switching pressure with increasing pressure
 $p_1 (-)$ = lower switching pressure with decreasing pressure

- 1) Rising
- 2) Falling

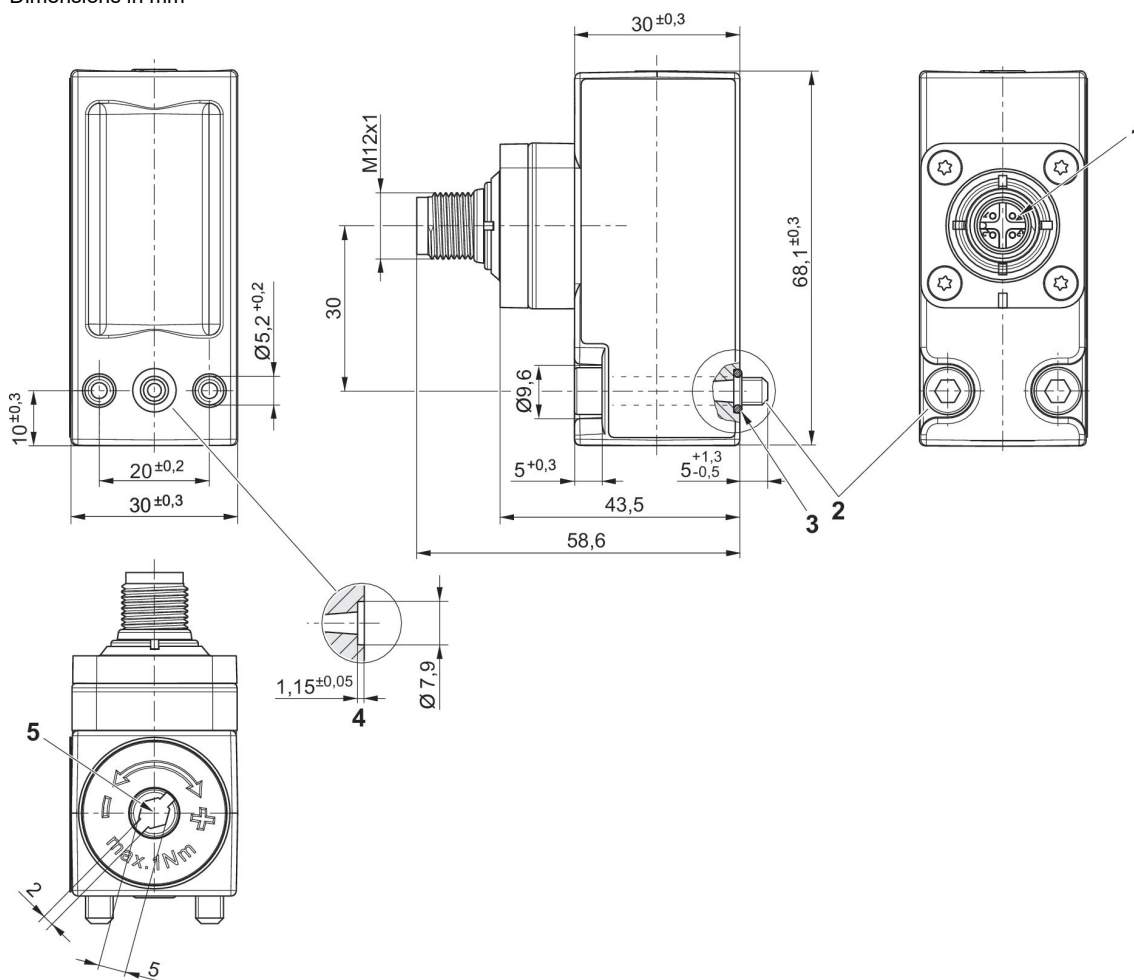
Pressure Switches, Series PM1

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

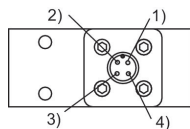
- 1) AC

2) DC

R412010719

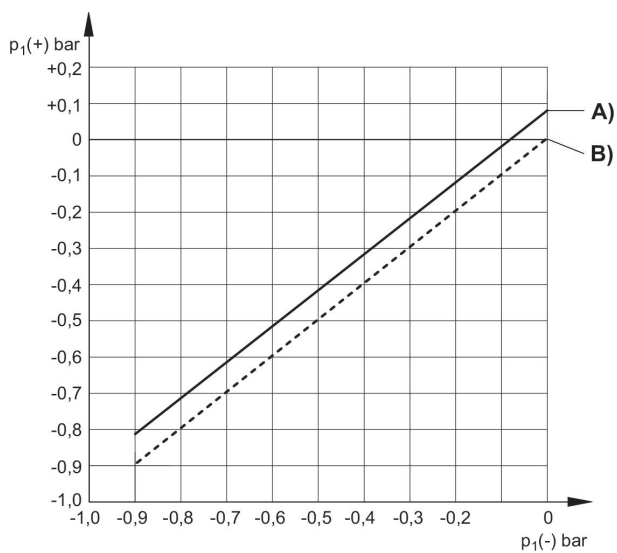
Pin assignments

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) $p_1 (-)$, min.

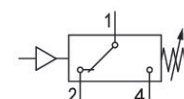
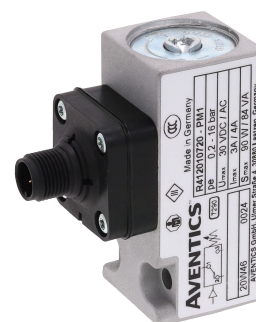
B) $p_1 (-)$, max.

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

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

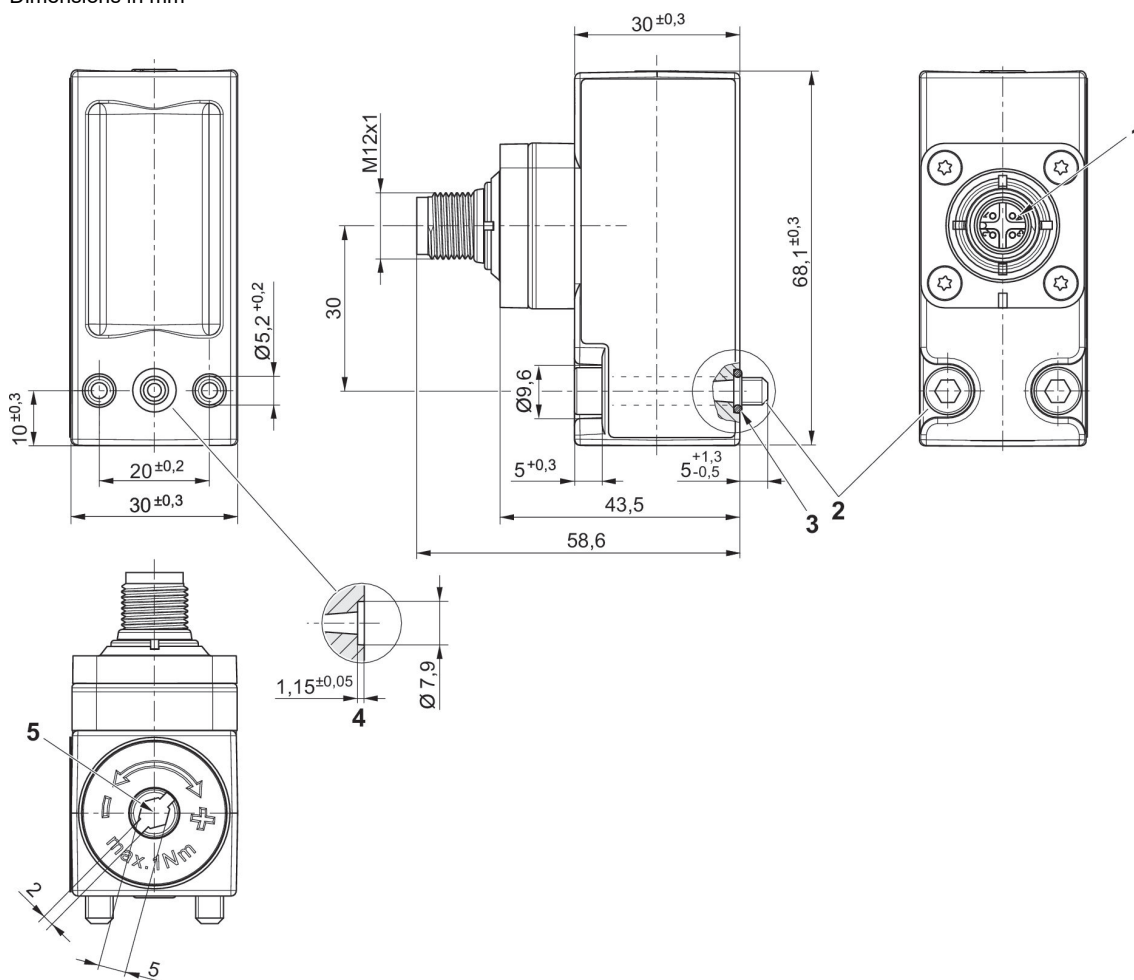
Pressure Switches, Series PM1

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 over-pressure | 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 |

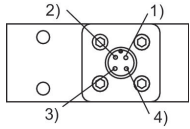
reference cycle: 30/min., reference temperature: +30 °C

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

R412010720

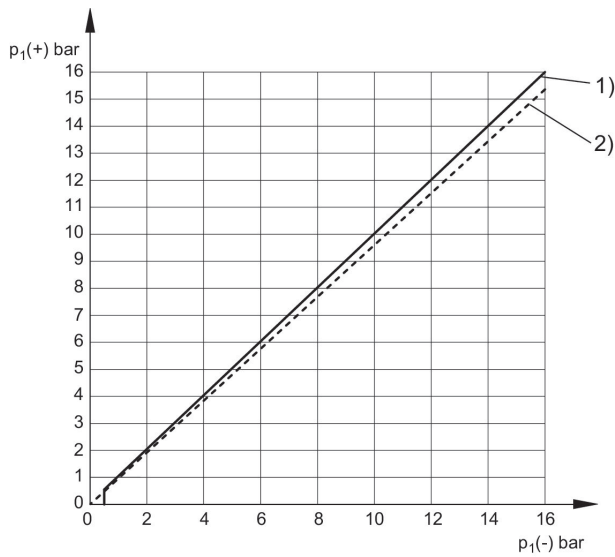
Pin assignments

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

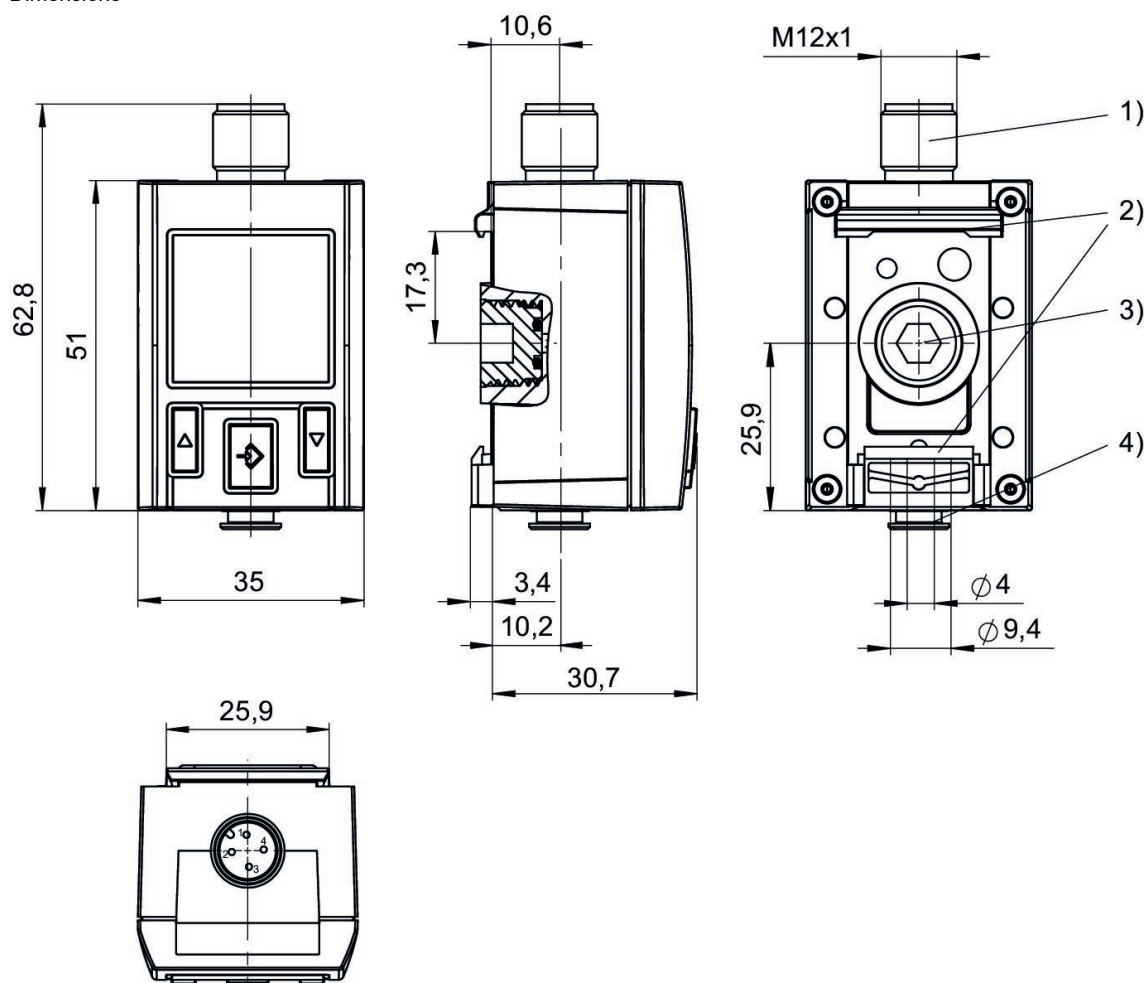


| | Thread connection | Operating pressure min [bar] | Operating pressure max [bar] | Min. operating voltage DC [V DC] | Max. operating voltage DC [V DC] | Protection against overpressure | Output signal digital | Part No. |
|--|-------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|---------------------------------|---|------------|
| | 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 |

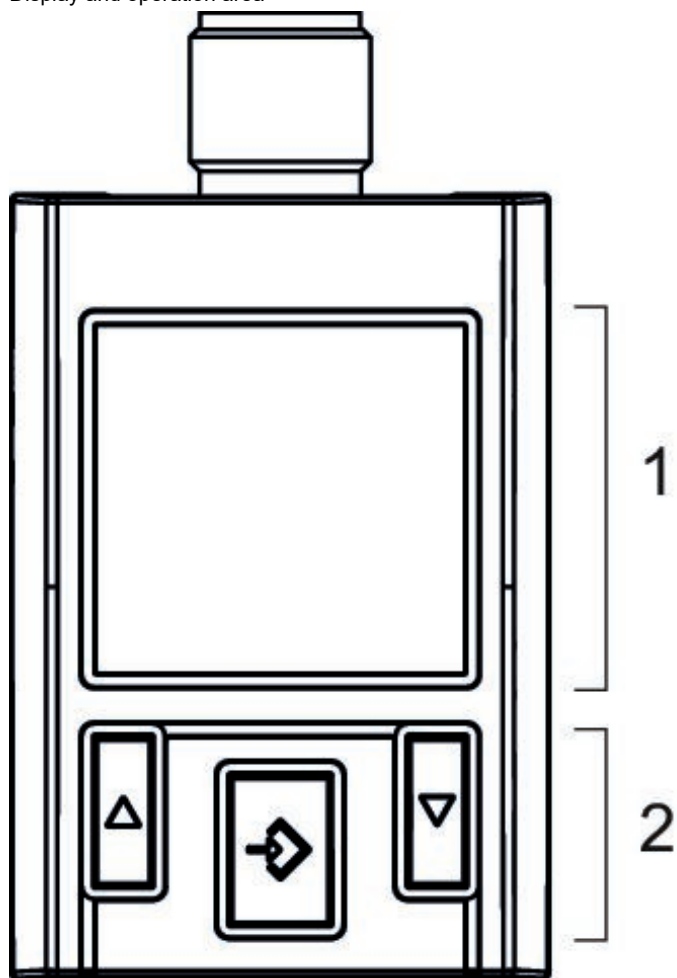
| Hysteresis | Part No. |
|------------|------------|
| adjustable | R412010761 |
| adjustable | R412010769 |
| adjustable | R412010775 |
| adjustable | R412010763 |
| adjustable | R412010771 |
| adjustable | R412010765 |
| adjustable | R412010777 |
| adjustable | R412010773 |
| adjustable | R412010767 |
| 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 \varnothing 4 mm

Display and operation area

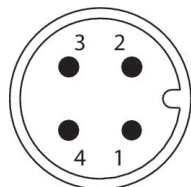


- 1) LCD display
- 2) Control panel with 3 buttons

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

Pin assignments

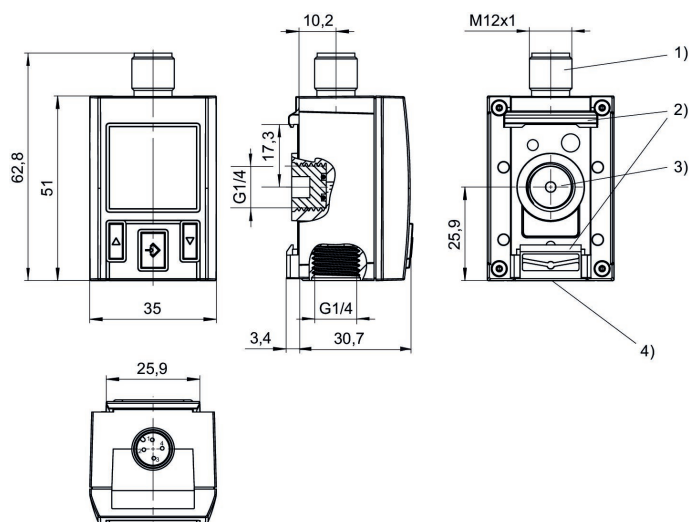
M12x1



| 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

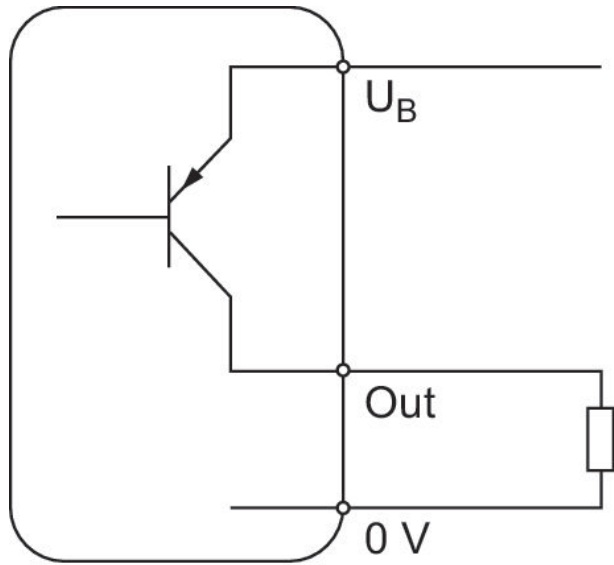
Dimensions



- 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

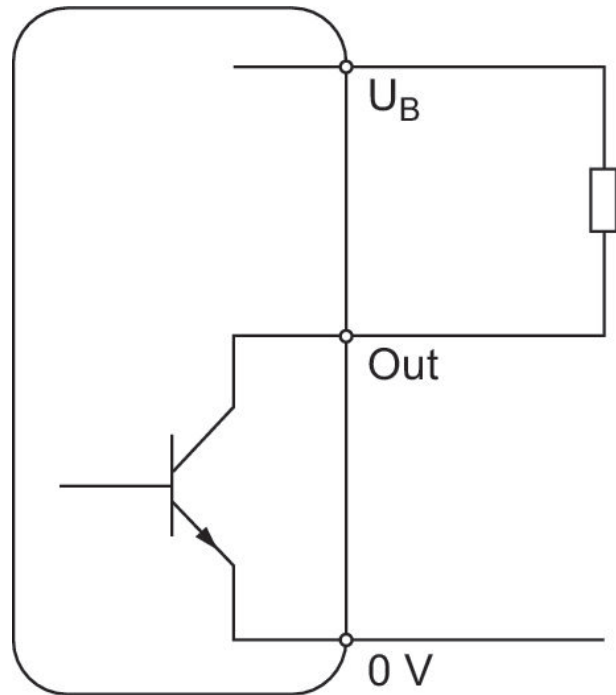
Operating mode

PNP



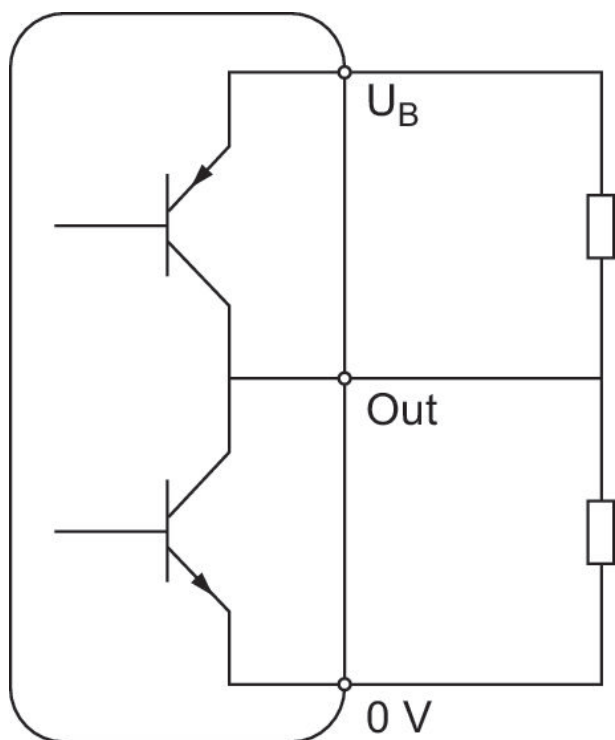
Operating mode

NPN



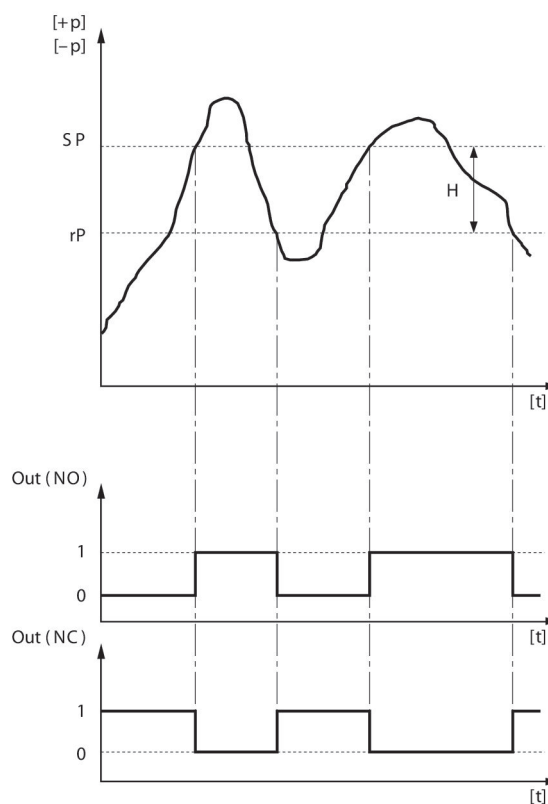
Operating mode

Push-pull



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

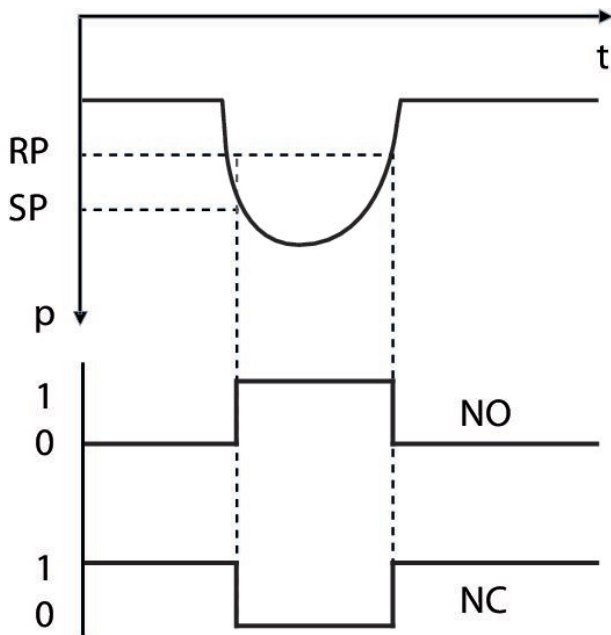
In case of overpressure



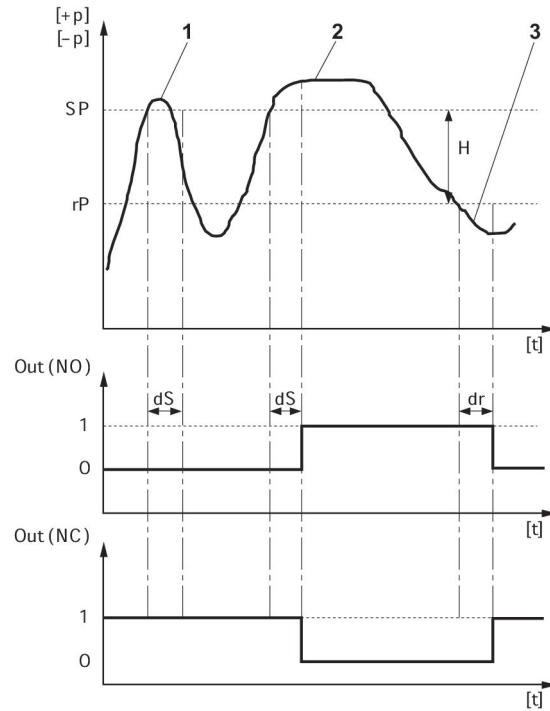
H: Hysteresis
 SP = switching point RP = resetting point
 Out (NC): switch output, break contact Out (NO): switch output, make contact

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

In case of underpressure

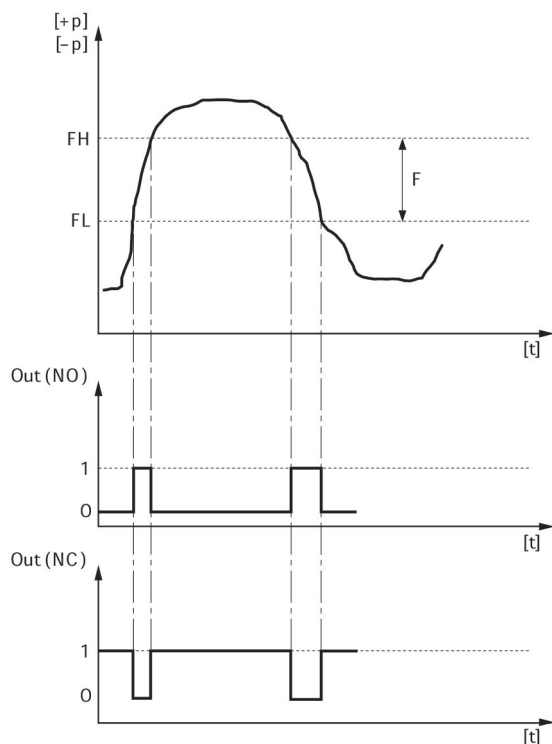


Delayed hysteresis function: switching and resetting behavior depending on pressure p and time t



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

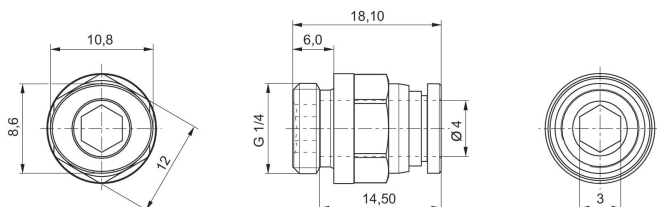
Compressed air connection type: External thread
 Compressed air connection type 2: Push-in fitting
 Ambient temperature min./max.: -20 °C ... 80 °C
 Medium temperature min./max.: -20 °C ... 80 °C
 Working pressure min./max.: -1 bar ... 16 bar



| 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 |

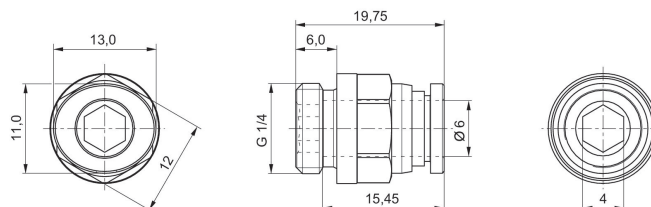
2121004140

Dimensions in mm



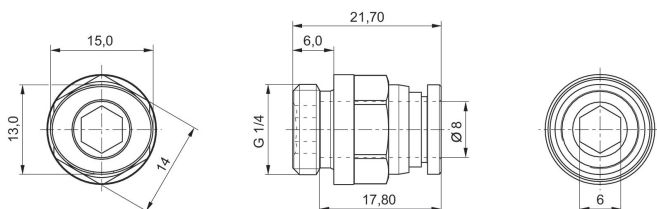
2121006140

Dimensions in mm



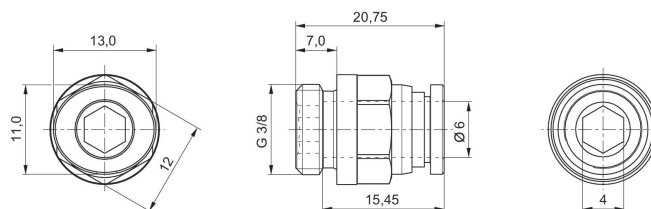
2121008140

Dimensions in mm



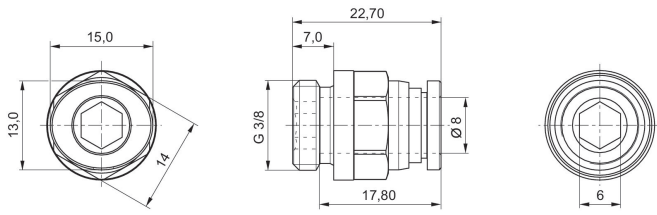
R412005000

Dimensions in mm



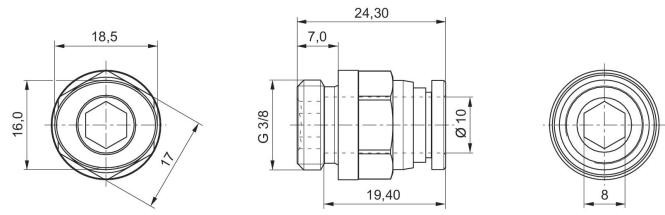
2121008380

Dimensions in mm



2121010380

Dimensions in mm



QR1-S-RPN standard series

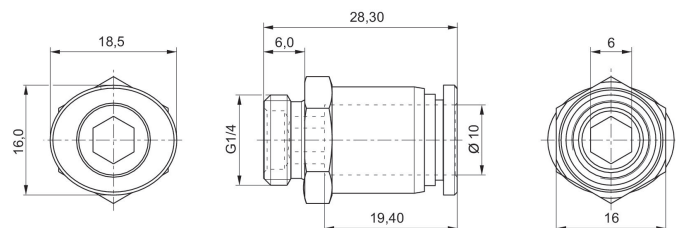
Compressed air connection type: External thread
 Compressed air connection type 2: Push-in fitting
 Ambient temperature min./max.: -20 °C ... 80 °C
 Medium temperature min./max.: -20 °C ... 80 °C
 Working pressure min./max.: -1 bar ... 16 bar



| 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 | Ø 16 | 10 | Brass | R412005005 |

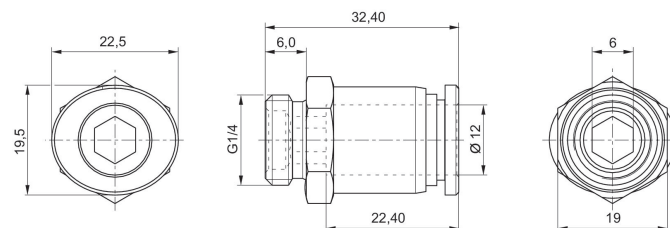
2121010140

Dimensions in mm



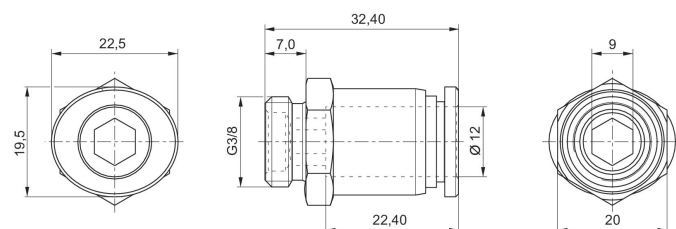
2121012140

Dimensions in mm



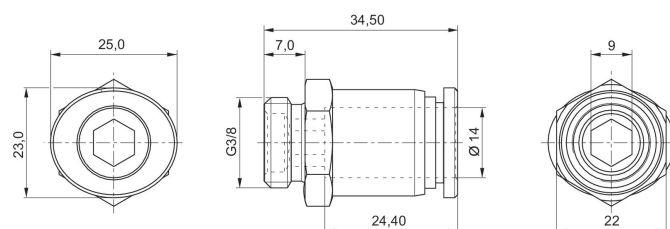
2121012380

Dimensions in mm



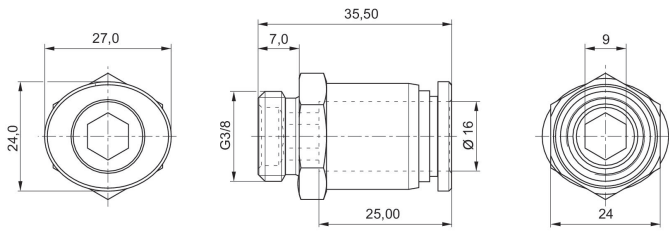
2121014380

Dimensions in mm



R412005005

Dimensions in mm



QR1-S-RVT standard series

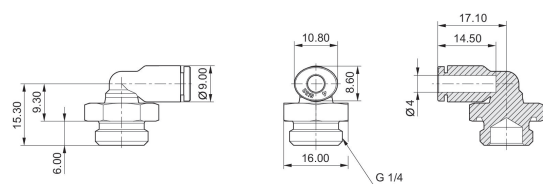
Compressed air connection type: External thread
 Compressed air connection type 2: Push-in fitting
 Ambient temperature min./max.: -20 °C ... 80 °C
 Medium temperature min./max.: -20 °C ... 80 °C
 Working pressure min./max.: -1 bar ... 16 bar



| 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 | Ø 16 | 5 | Polyamide | R412005097 |

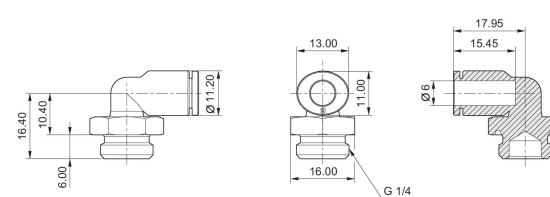
2122004140

Dimensions in mm



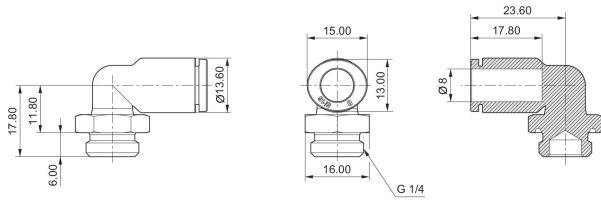
2122006140

Dimensions in mm



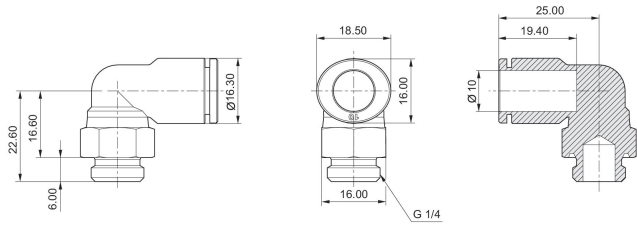
2122008140

Dimensions in mm



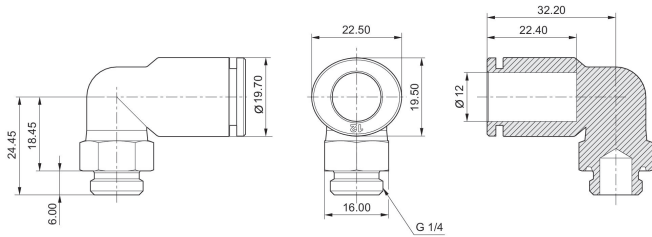
2122010140

Dimensions in mm



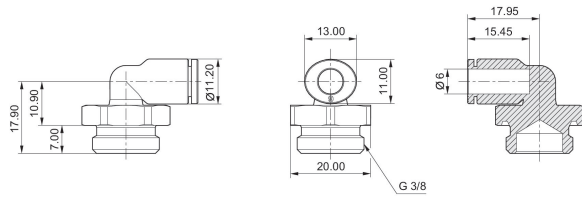
2122012140

Dimensions in mm



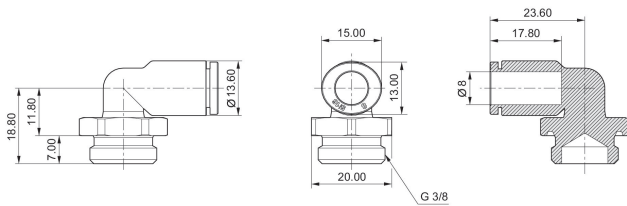
R412005092

Dimensions in mm



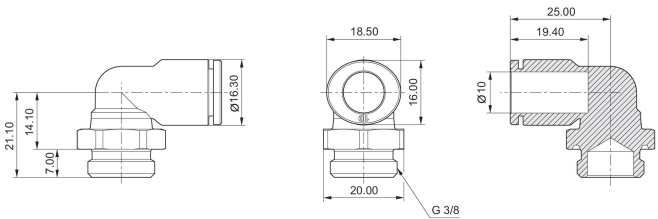
2122008380

Dimensions in mm



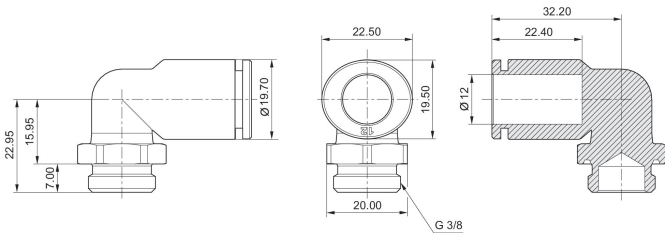
2122010380

Dimensions in mm



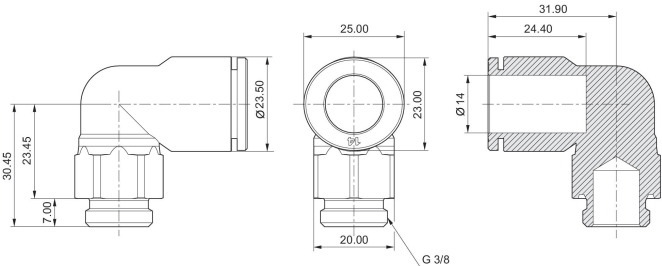
2122012380

Dimensions in mm



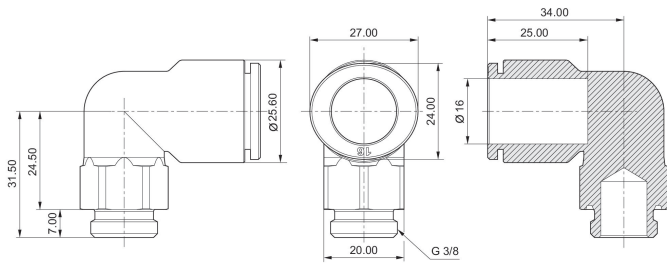
2122014380

Dimensions in mm



R412005097

Dimensions in mm



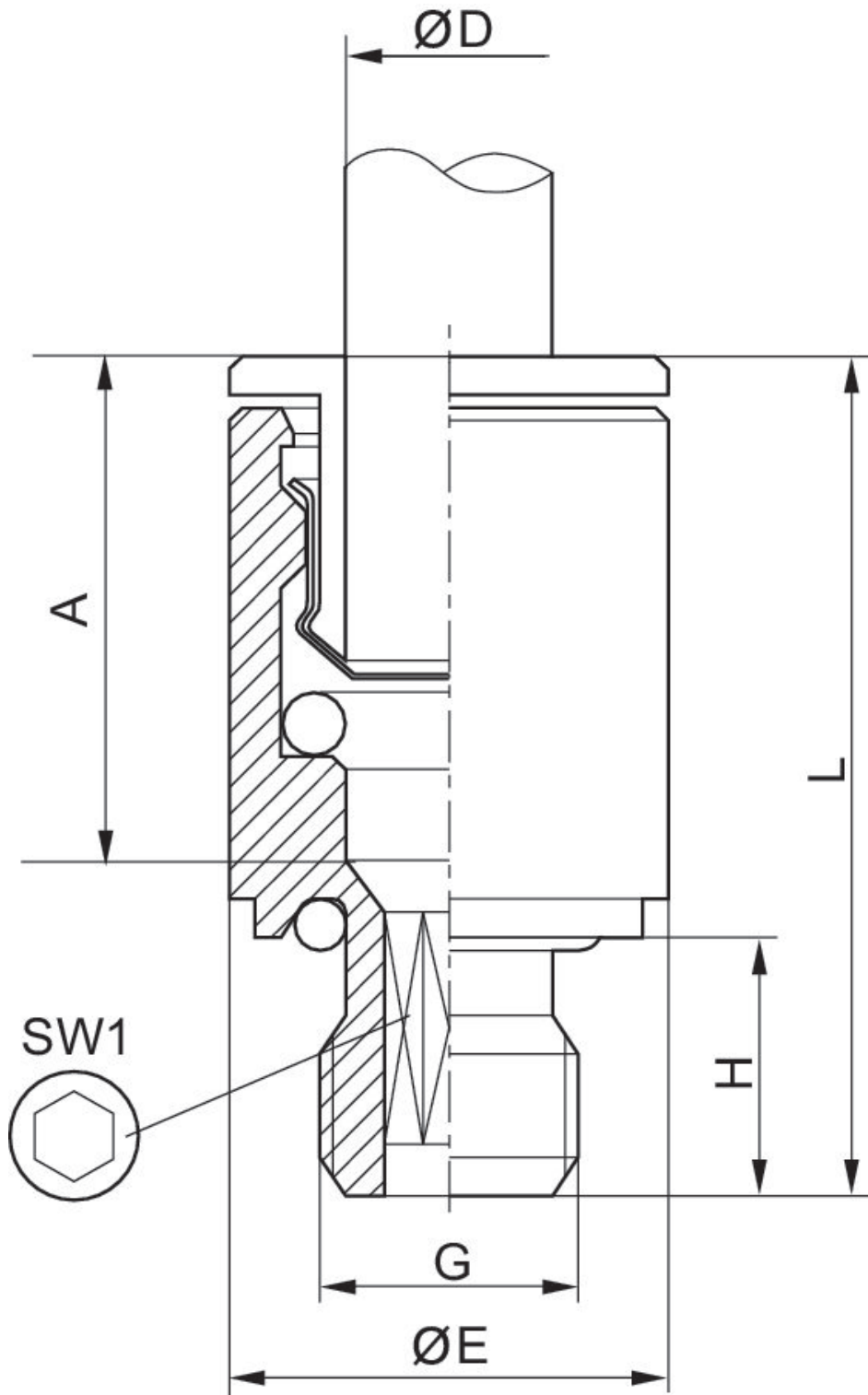
Series QR2-S-RPN standard

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 |

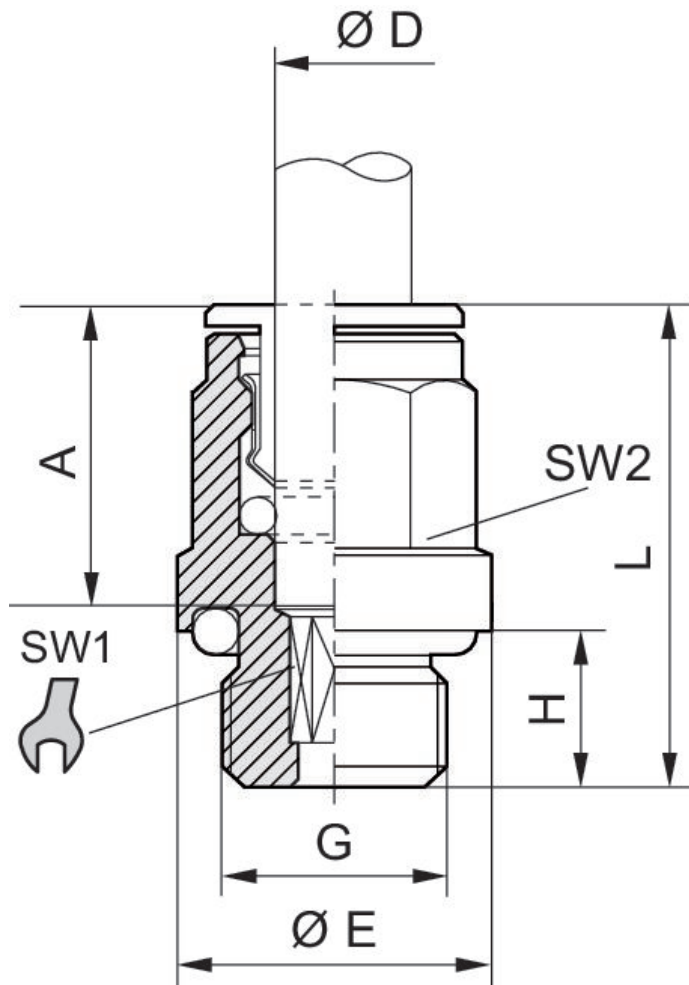
Dimensions



| 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



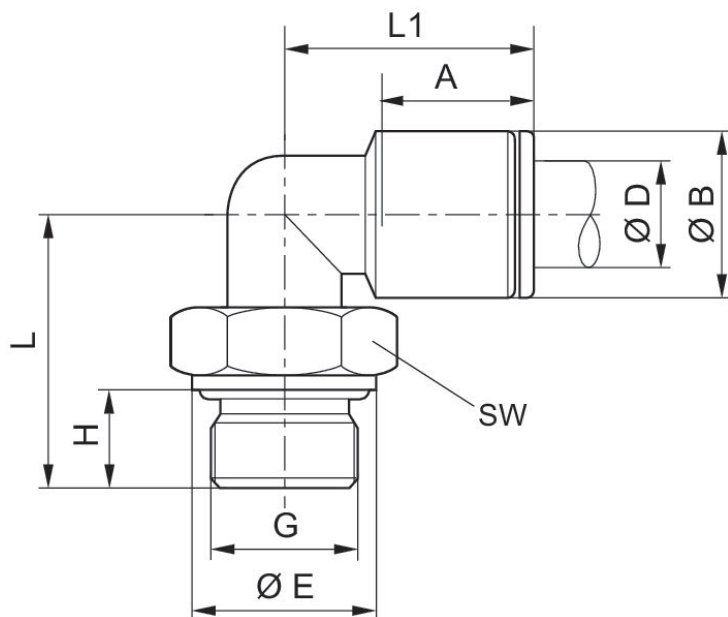
Series QR2-S-RVT standard

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 | Ø 16 | 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 |

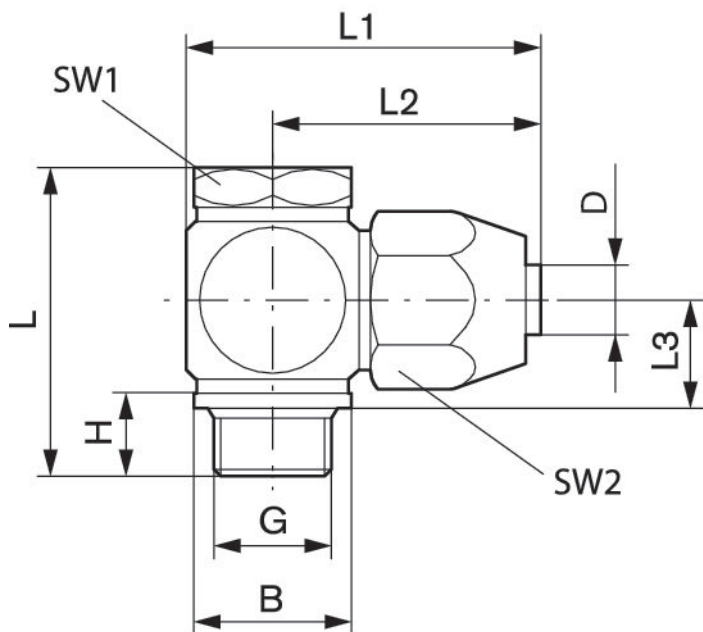
Series NU2

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

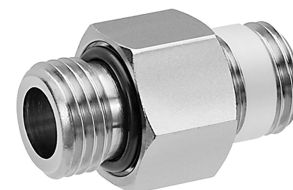
| Part No. | Port D | Port G | B | H | L | L1 | L2 | L3 | SW1 |
|------------|--------|--------|------|------|------|------|------|------|-----|
| 1823391293 | Ø 4 | G 1/8 | 14 | 10 | 32.5 | 34 | 26.5 | 13.7 | 14 |
| 1823391294 | Ø 6 | G 1/4 | 18 | 12.5 | 39 | 39.5 | 30 | 14.5 | 17 |
| 1823391295 | Ø 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

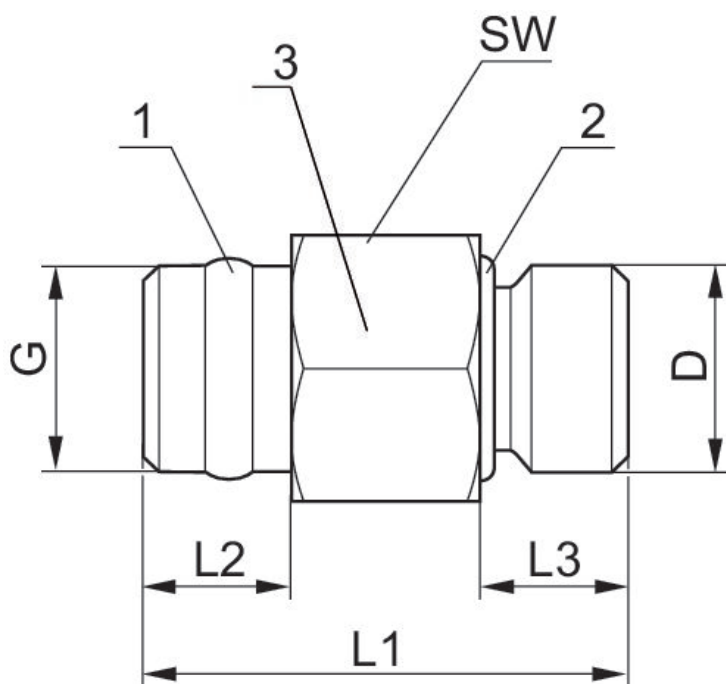
Double nipple, Series PE5

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 |

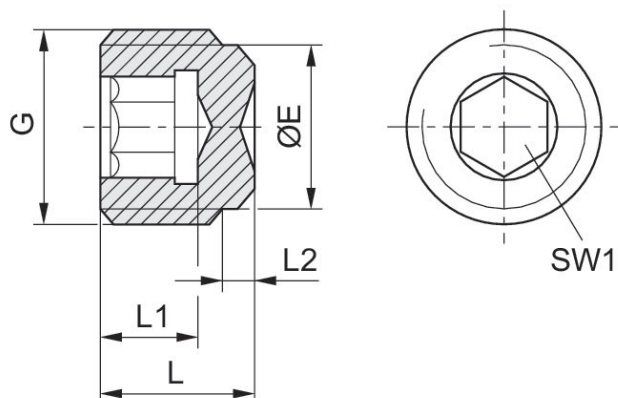
Blanking screw, Brass

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

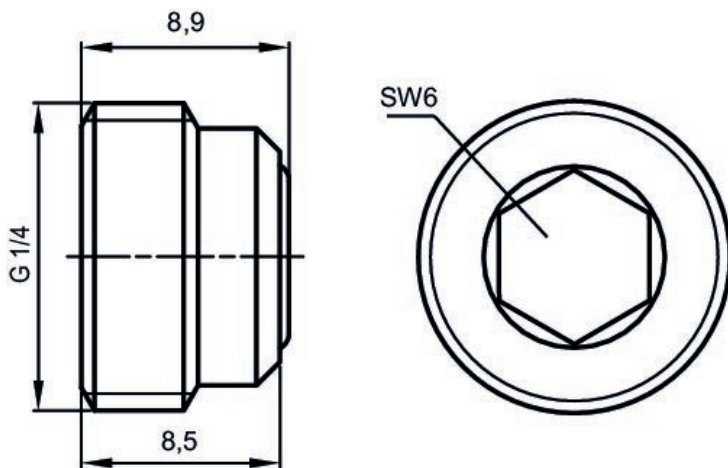
| Part No. | Port G | ØE | L | L1 | L2 | SW1 |
|------------|--------|----|----|----|-----|-----|
| 1823462004 | G 1/8 | 8 | 8 | 5 | 2 | 5 |
| 1823462003 | G 1/4 | 11 | 11 | 7 | 3.5 | 6 |

Orifice plugs



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

Dimensions

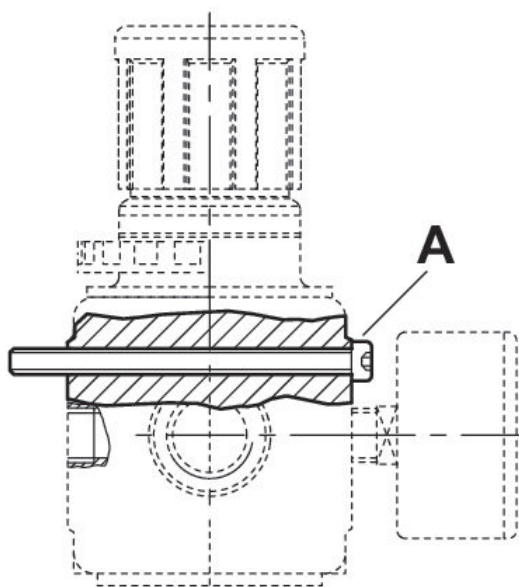


Mounting screws for wall mounting, Series NL2, NL4



| 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 |

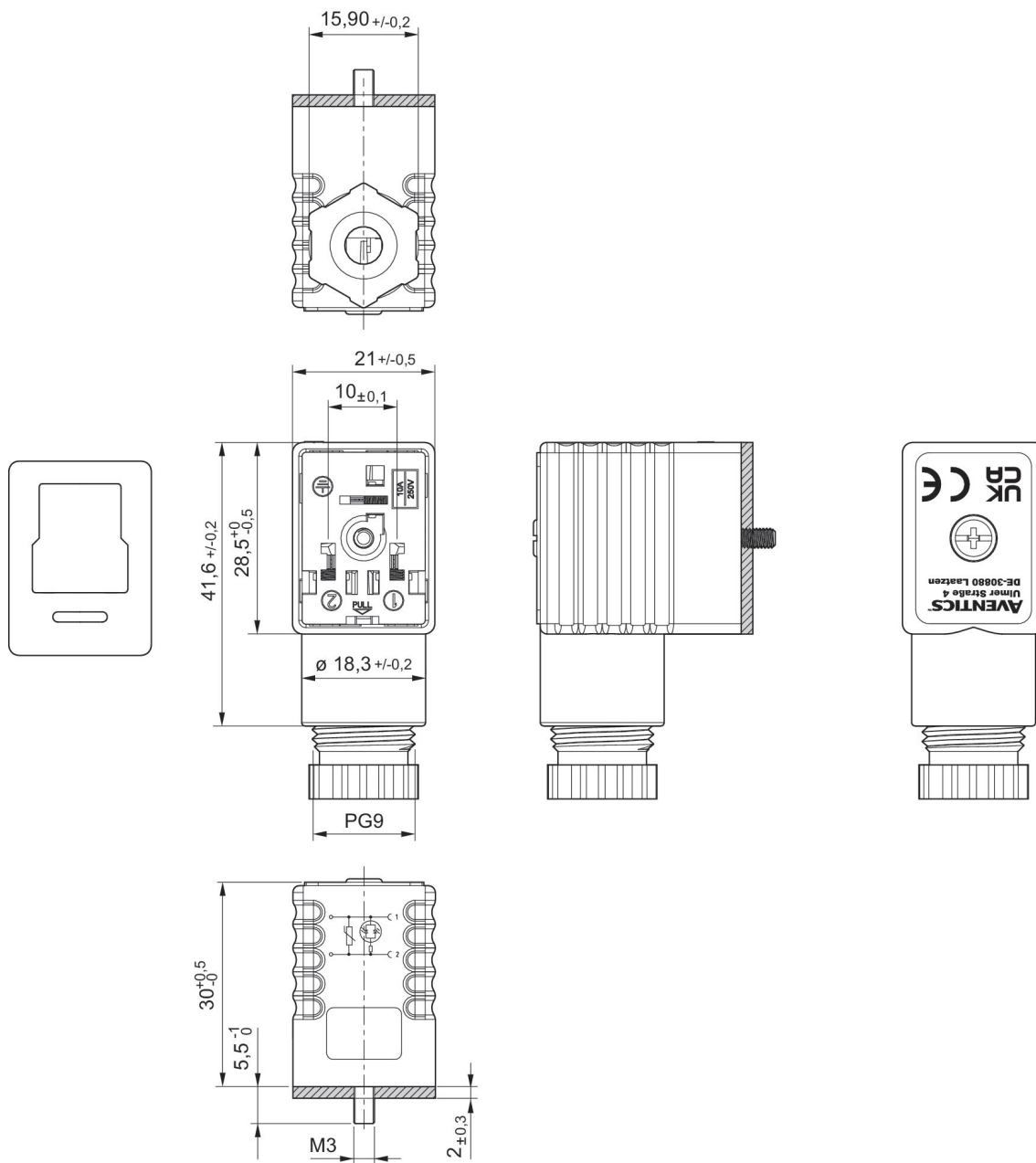
Valve plug connector, series CON-VPP, Form B, 115/230 V AC/DC, LED

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

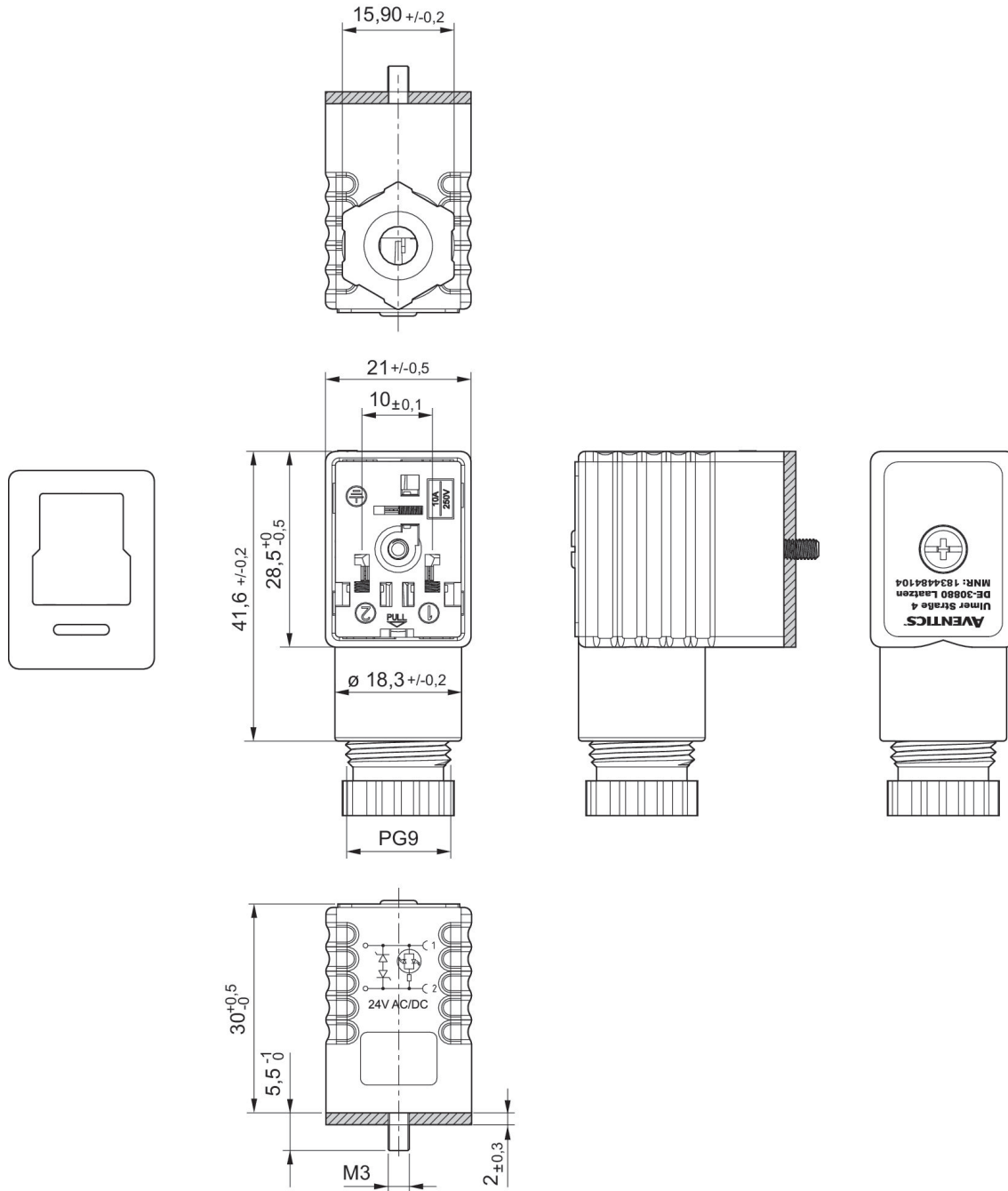
Valve plug connector, series CON-VP, Form B, 24 V AC/DC

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

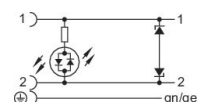
Valve plug connector with cable series CON-VP, Form B, 0° female insert

Electrical connection 1: Socket ... Form B ... 2+E ... angled 90°

Electrical connection 2: open cable ends ... 3-pin

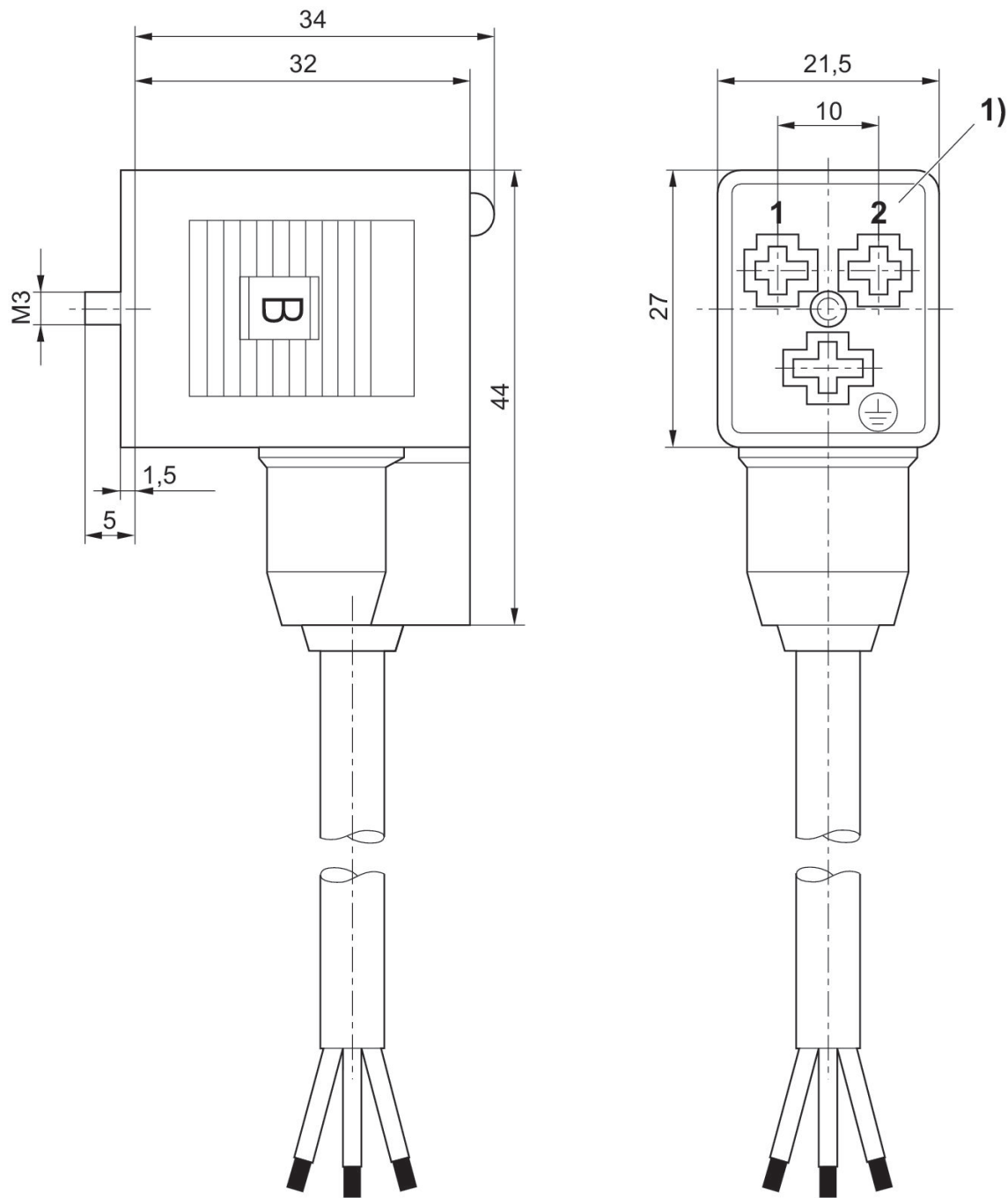
Protective circuit: Z-diode

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 |

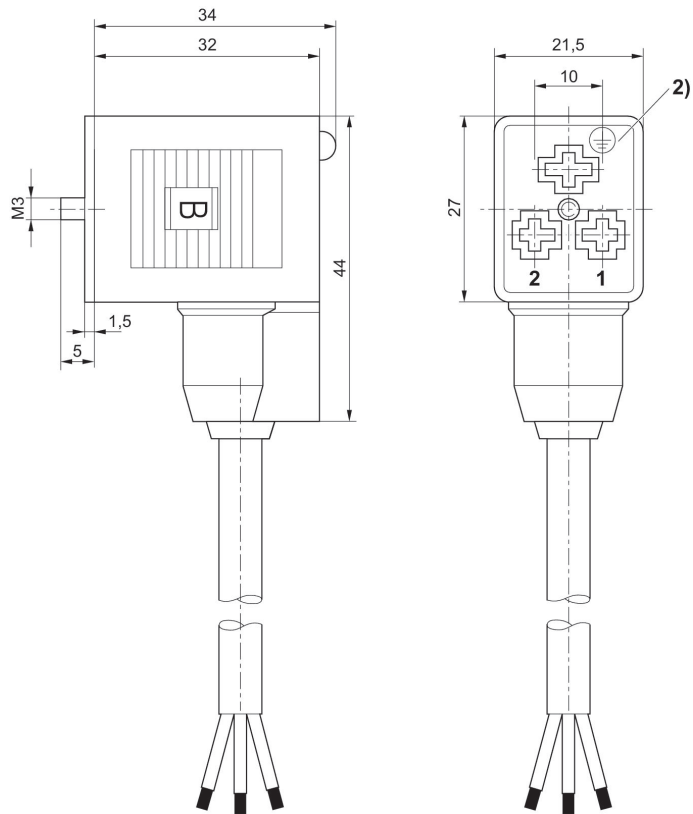
Dimensions



1) 0° female insert

1834484153, 1834484155

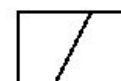
Dimensions



2) 180° female insert

Coil, Series CO1

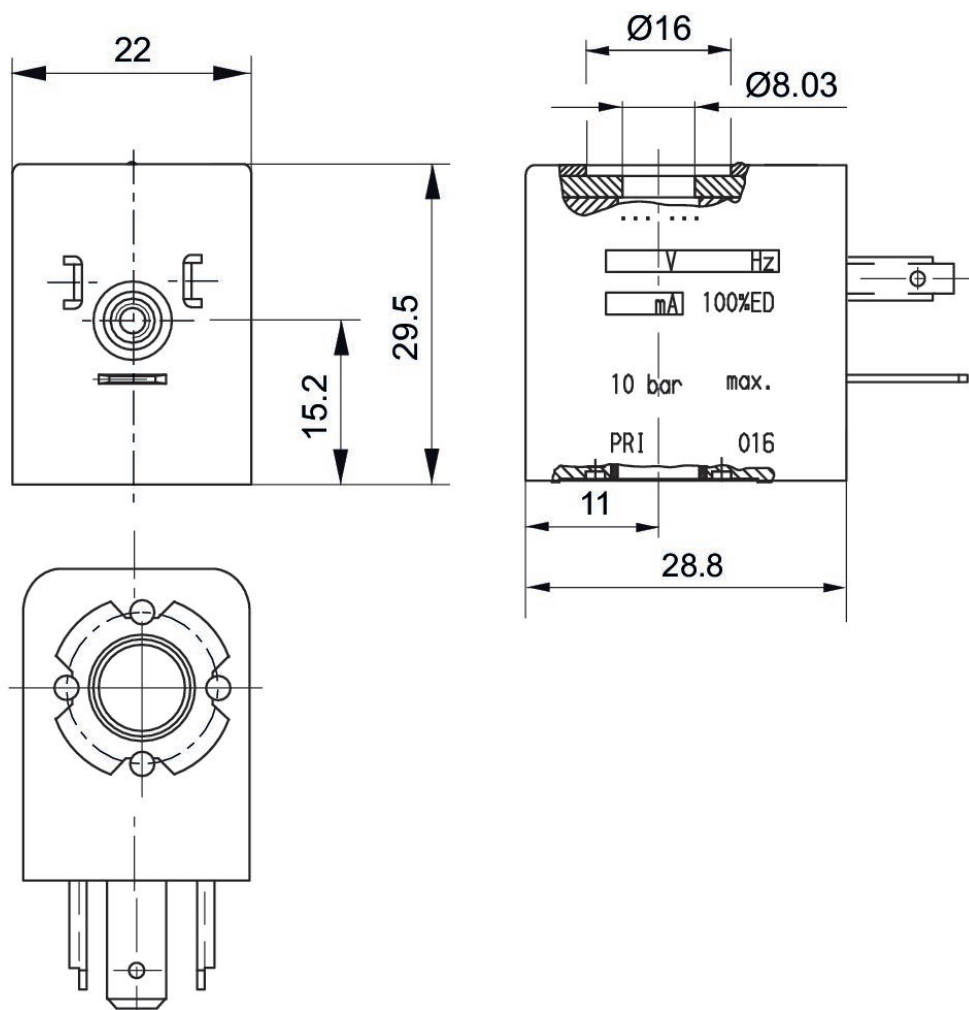
Coil width: 22 mm
Duty cycle: 100 %
Ambient temperature min./max.: 50 °C



| 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



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air supply management, proportional pressure
control valves



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