

## 3/2-directional valve, Series CD12

- $Q_n = 4000 \text{ l/min}$
- Pilot valve width : 30 mm
- NC, NO
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- single solenoid
- With spring return
- Pilot : internal, external



|                                |                                     |
|--------------------------------|-------------------------------------|
| Version                        | Spool valve, positive overlapping   |
| Activation                     | Electrically                        |
| Sealing principle              | Soft sealing                        |
| Working pressure min./max.     | See table below                     |
| Control pressure min./max.     | See table below                     |
| Ambient temperature min./max.  | See table below                     |
| Medium temperature min./max.   | See table below                     |
| Medium                         | Compressed air                      |
| Max. particle size             | 50 $\mu\text{m}$                    |
| Oil content of compressed air  | 0 ... 1 $\text{mg/m}^3$             |
| Nominal flow $Q_n$             | 4000 l/min                          |
| Nominal flow 1 $\rightarrow$ 2 | 4000 l/min                          |
| Nominal flow 2 $\rightarrow$ 3 | 4000 l/min                          |
| Compressed air connection      | according to ISO 228-1              |
| Pilot control exhaust          | with directional pilot air exhaust  |
| Connector standard             | EN 175301-803:2006                  |
| Reverse polarity protection    | Protected against polarity reversal |
| Compatibility index            | See table below                     |
| Duty cycle                     | 100 %                               |
| Weight                         | See table below                     |

## Technical data

| Part No.   |                                                                                   |        | MO           | Compressed air connection |
|------------|-----------------------------------------------------------------------------------|--------|--------------|---------------------------|
|            |                                                                                   |        |              | Input                     |
| 5724550220 |  | NC, NO | T R-T R-T R- | G 1/2                     |
| 5724555270 |  | NC, NO |              | G 1/2                     |
| 5724555280 |  | NC, NO |              | G 1/2                     |
| 5724555202 |  | NC, NO | -            | G 1/2                     |
| 5724560220 |  | NC, NO | T R-T R-T R- | G 1/2                     |
| 5724565270 |  | NC, NO |              | G 1/2                     |
| 5724565280 |  | NC, NO |              | G 1/2                     |
| 5724565202 |  | NC, NO | -            | G 1/2                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Output                    | Exhaust                   |
| 5724550220 | G 1/2                     | G 1/2                     |
| 5724555270 | G 1/2                     | G 1/2                     |
| 5724555280 | G 1/2                     | G 1/2                     |
| 5724555202 | G 1/2                     | G 1/2                     |
| 5724560220 | G 1/2                     | G 1/2                     |
| 5724565270 | G 1/2                     | G 1/2                     |
| 5724565280 | G 1/2                     | G 1/2                     |
| 5724565202 | G 1/2                     | G 1/2                     |

| Part No.   | Compressed air connection | Compressed air connection | Operationalvoltage |
|------------|---------------------------|---------------------------|--------------------|
|            | Pilot Input               | Pilot Exhaust             | DC                 |
| 5724550220 | -                         | M5                        | 24 V               |
| 5724555270 | -                         | M5                        | -                  |
| 5724555280 | -                         | M5                        | -                  |
| 5724555202 | -                         | -                         | -                  |
| 5724560220 | G 1/8                     | M5                        | 24 V               |
| 5724565270 | G 1/8                     | M5                        | -                  |
| 5724565280 | G 1/8                     | M5                        | -                  |
| 5724565202 | G 1/8                     | -                         | -                  |

| Part No.   | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|------------|--------------------|--------------------|-------------------|-------------------|
|            | AC 50 Hz           | AC 60 Hz           | DC                | AC 50 Hz          |
| 5724550220 | -                  | -                  | -10% / +10%       | -                 |
| 5724555270 | 110 V              | 110 V              | -                 | -20% / +10%       |
| 5724555280 | 230 V              | 230 V              | -                 | -20% / +10%       |
| 5724555202 | -                  | -                  | -                 | -                 |
| 5724560220 | -                  | -                  | -10% / +10%       | -                 |
| 5724565270 | 110 V              | 110 V              | -                 | -20% / +10%       |
| 5724565280 | 230 V              | 230 V              | -                 | -20% / +10%       |
| 5724565202 | -                  | -                  | -                 | -                 |

| Part No.   | Voltage tolerance | Power consumption | Holding power | Holding power |
|------------|-------------------|-------------------|---------------|---------------|
|            | AC 60 Hz          | DC                | AC 50 Hz      | AC 60 Hz      |
| 5724550220 | -                 | 2,1 W             | -             | -             |
| 5724555270 | -10% / +20%       | -                 | 4,3 VA        | 3,3 VA        |
| 5724555280 | -10% / +20%       | -                 | 4,4 VA        | 3,5 VA        |

| Part No.   | Voltage tolerance | Power consumption | Holding power | Holding power |
|------------|-------------------|-------------------|---------------|---------------|
|            | AC 60 Hz          | DC                | AC 50 Hz      | AC 60 Hz      |
| 5724555202 | -                 | -                 | -             | -             |
| 5724560220 | -                 | 2,1 W             | -             | -             |
| 5724565270 | -10% / +20%       | -                 | 4,3 VA        | 3,3 VA        |
| 5724565280 | -10% / +20%       | -                 | 4,4 VA        | 3,5 VA        |
| 5724565202 | -                 | -                 | -             | -             |

| Part No.   | Switch-on power | Switch-on power | Pilot    | Working pressure min./max. |
|------------|-----------------|-----------------|----------|----------------------------|
|            | AC 50 Hz        | AC 60 Hz        |          |                            |
| 5724550220 | -               | -               | internal | 2 ... 10 bar               |
| 5724555270 | 6,8 VA          | 5,7 VA          | internal | 2 ... 10 bar               |
| 5724555280 | 6,9 VA          | 6,2 VA          | internal | 2 ... 10 bar               |
| 5724555202 | -               | -               | internal | 2 ... 16 bar               |
| 5724560220 | -               | -               | external | -0,95 ... 16 bar           |
| 5724565270 | 6,8 VA          | 5,7 VA          | external | -0,95 ... 16 bar           |
| 5724565280 | 6,9 VA          | 6,2 VA          | external | -0,95 ... 16 bar           |
| 5724565202 | -               | -               | external | -0,95 ... 16 bar           |

| Part No.   | Control pressure min./max. | Ambient temperature min./max. | Medium temperature min./max. |
|------------|----------------------------|-------------------------------|------------------------------|
| 5724550220 | 2 ... 10 bar               | -25 ... 50 °C                 | -25 ... 50 °C                |
| 5724555270 | 2 ... 10 bar               | -25 ... 50 °C                 | -25 ... 50 °C                |
| 5724555280 | 2 ... 10 bar               | -25 ... 50 °C                 | -25 ... 50 °C                |
| 5724555202 | 2 ... 16 bar               | -25 ... 70 °C                 | -25 ... 70 °C                |
| 5724560220 | 2 ... 10 bar               | -25 ... 50 °C                 | -25 ... 50 °C                |
| 5724565270 | 2 ... 10 bar               | -25 ... 50 °C                 | -25 ... 50 °C                |
| 5724565280 | 2 ... 10 bar               | -25 ... 50 °C                 | -25 ... 50 °C                |
| 5724565202 | 2 ... 16 bar               | -25 ... 70 °C                 | -25 ... 70 °C                |

| Part No.   | Typ. switch-on time | Typ. switch-off time | Compatibility index | Protection class |
|------------|---------------------|----------------------|---------------------|------------------|
|            |                     |                      |                     | with connection  |
| 5724550220 | 34 ms               | 90 ms                | 13, 14              | IP65             |
| 5724555270 | 34 ms               | 90 ms                | 13, 14              | IP65             |
| 5724555280 | 34 ms               | 90 ms                | 13, 14              | IP65             |
| 5724555202 | -                   | -                    | -                   | -                |
| 5724560220 | 34 ms               | 90 ms                | 13, 14              | IP65             |
| 5724565270 | 34 ms               | 90 ms                | 13, 14              | IP65             |
| 5724565280 | 34 ms               | 90 ms                | 13, 14              | IP65             |
| 5724565202 | -                   | -                    | -                   | -                |

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar, MO = Manual override

1) temperature range for ATEX application: - 10 °C ... 60 °C

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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

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

option valve: The input and output compressed air connections can be exchanged.The valve can thereby be used in the NC or NO operating mode.

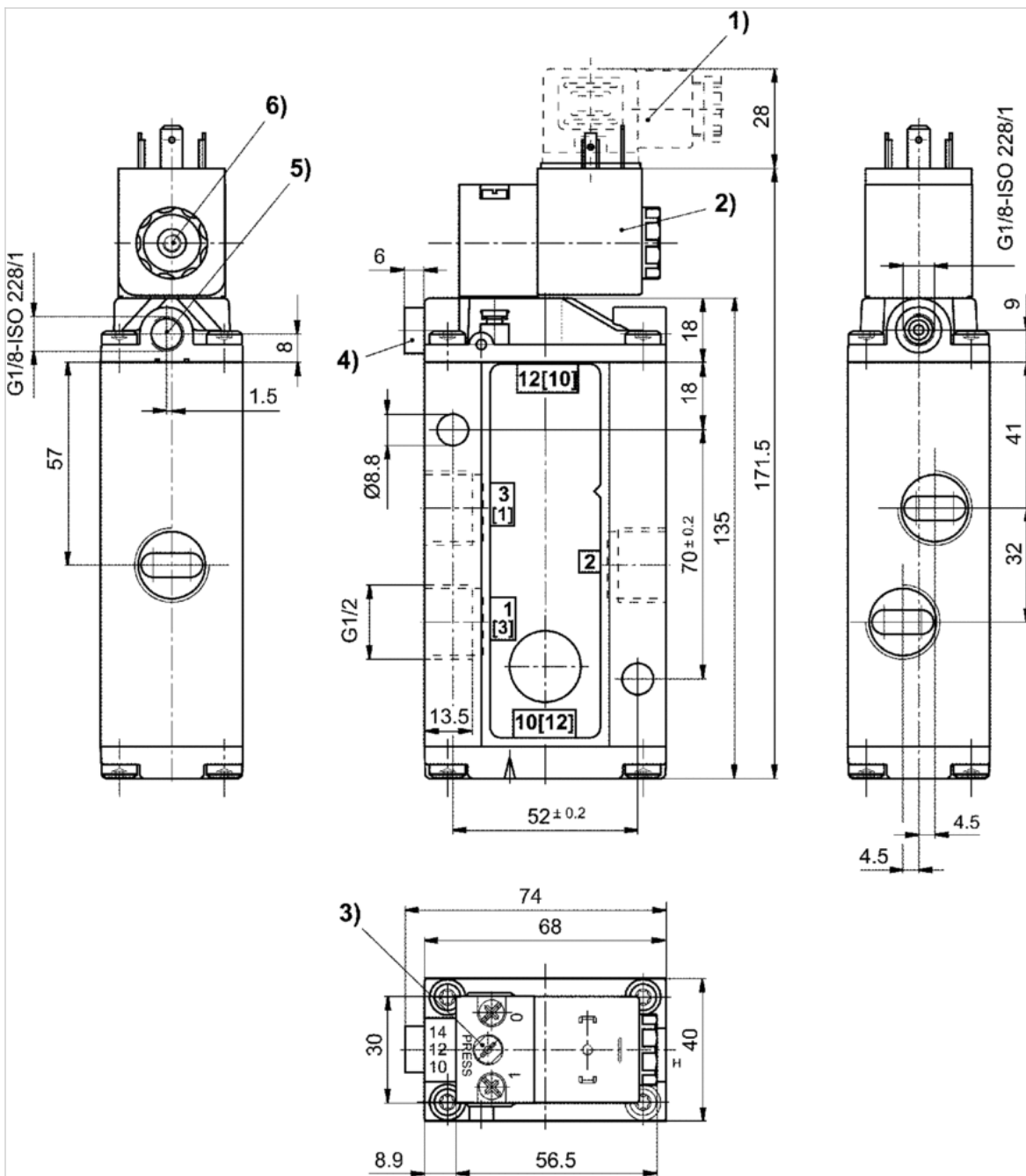
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

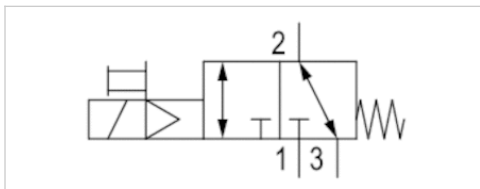
### Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

## 3/2-directional valve, Series CD12

- Qn = 4000 l/min
- Pilot valve width : 30 mm
- NC, NO
- Pipe connection
- Compressed air connection output : M22x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : without detent
- single solenoid
- With spring return
- Pilot : internal



|                                  |                                     |
|----------------------------------|-------------------------------------|
| Version                          | Spool valve, positive overlapping   |
| Activation                       | Electrically                        |
| Pilot                            | internal                            |
| Sealing principle                | Soft sealing                        |
| Working pressure min./max.       | 2 ... 16 bar                        |
| Control pressure min./max.       | 2 ... 16 bar                        |
| Ambient temperature min./max.    | -25 ... 50 °C                       |
| Medium temperature min./max.     | -25 ... 50 °C                       |
| Medium                           | Compressed air                      |
| Max. particle size               | 50 µm                               |
| Oil content of compressed air    | 0 ... 1 mg/m <sup>3</sup>           |
| Nominal flow Qn                  | 4000 l/min                          |
| Nominal flow 1 ► 2               | 4000 l/min                          |
| Nominal flow 2 ► 3               | 4000 l/min                          |
| Pilot control exhaust            | with directional pilot air exhaust  |
| Connector standard               | EN 175301-803:2006                  |
| Protection class,with connection | IP65                                |
| Reverse polarity protection      | Protected against polarity reversal |
| Compatibility index              | 14                                  |
| Duty cycle                       | 100 %                               |
| Typ. switch-on time              | 34 ms                               |
| Typ. switch-off time             | 90 ms                               |
| Weight                           | 0,85 kg                             |

## Technical data

| Part No.   |        | MO                                                                                | Compressed air connection |         |
|------------|--------|-----------------------------------------------------------------------------------|---------------------------|---------|
|            |        |                                                                                   | Input                     | Output  |
| 5724500920 | NC, NO |  | M22x1,5                   | M22x1,5 |
| 5724505970 | NC, NO |  | M22x1,5                   | M22x1,5 |
| 5724505980 | NC, NO |  | M22x1,5                   | M22x1,5 |

| Part No.   | Compressed air connection |               | Operationalvoltage |
|------------|---------------------------|---------------|--------------------|
|            | Exhaust                   | Pilot Exhaust | DC                 |
| 5724500920 | M22x1,5                   | M5            | 24 V               |
| 5724505970 | M22x1,5                   | M5            | -                  |
| 5724505980 | M22x1,5                   | M5            | -                  |

| Part No.   | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|------------|--------------------|--------------------|-------------------|-------------------|
|            | AC 50 Hz           | AC 60 Hz           | DC                | AC 50 Hz          |
| 5724500920 | -                  | -                  | -10% / +10%       | -                 |
| 5724505970 | 110 V              | 110 V              | -                 | -20% / +10%       |
| 5724505980 | 230 V              | 230 V              | -                 | -20% / +10%       |

| Part No.   | Voltage tolerance | Power consumption | Holding power | Holding power |
|------------|-------------------|-------------------|---------------|---------------|
|            | AC 60 Hz          | DC                | AC 50 Hz      | AC 60 Hz      |
| 5724500920 | -                 | 6,7 W             | -             | -             |
| 5724505970 | -10% / +20%       | -                 | 10,5 VA       | 7,6 VA        |
| 5724505980 | -10% / +20%       | -                 | 10,8 VA       | 7,8 VA        |

| Part No.   | Switch-on power |          |
|------------|-----------------|----------|
|            | AC 50 Hz        | AC 60 Hz |
| 5724500920 | -               | -        |
| 5724505970 | 14,5 VA         | 12 VA    |
| 5724505980 | 15,2 VA         | 12,7 VA  |

Nominal flow Q<sub>n</sub> at 6 bar and Δp = 1 bar, MO = Manual override

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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

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

option valve: The input and output compressed air connections can be exchanged. The valve can thereby be used in the NC or NO operating mode.

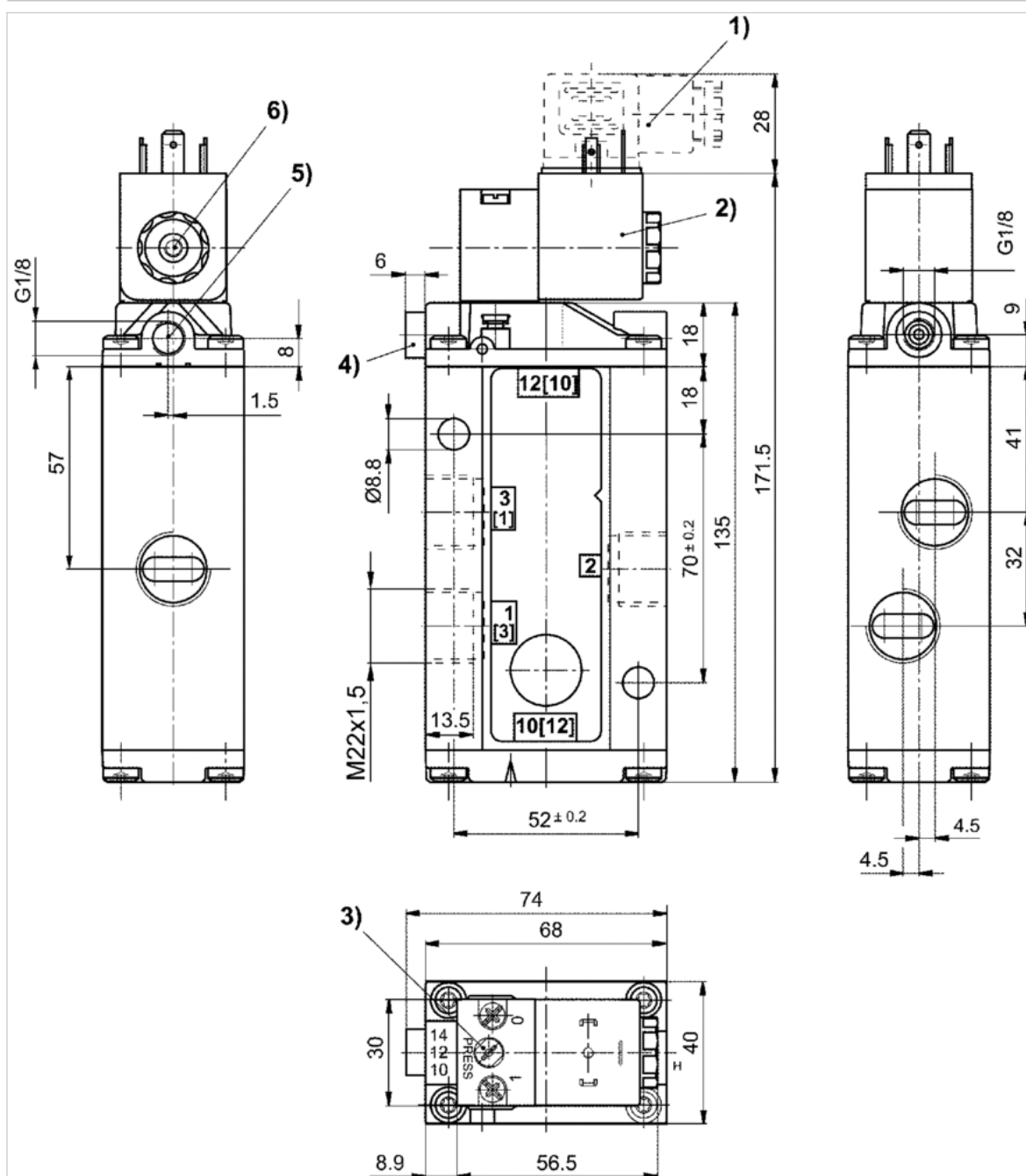
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

## Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

### Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

# 5/2-directional valve, Series CD12

- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- single solenoid
- Pilot : internal, external



|                               |                                     |
|-------------------------------|-------------------------------------|
| Version                       | Spool valve, positive overlapping   |
| Activation                    | Electrically                        |
| Sealing principle             | Soft sealing                        |
| Working pressure min./max.    | See table below                     |
| Control pressure min./max.    | See table below                     |
| Ambient temperature min./max. | See table below                     |
| Medium temperature min./max.  | See table below                     |
| Medium                        | Compressed air                      |
| Max. particle size            | 50 µm                               |
| Oil content of compressed air | 0 ... 1 mg/m³                       |
| Nominal flow Qn               | 4100 l/min                          |
| Compressed air connection     | according to ISO 228-1              |
| Pilot control exhaust         | with directional pilot air exhaust  |
| Reverse polarity protection   | Protected against polarity reversal |
| Compatibility index           | See table below                     |
| Duty cycle                    | 100 %                               |
| Weight                        | See table below                     |

## Technical data

| Part No.   |                                                                                   | MO                                                                                | Compressed air connection | Compressed air connection |
|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------|---------------------------|
|            |                                                                                   |                                                                                   | Input                     | Output                    |
| 5725450220 |  |  | G 1/2                     | G 1/2                     |
| 5725455270 |  |  | G 1/2                     | G 1/2                     |
| 5725455280 |  |  | G 1/2                     | G 1/2                     |
| 5725455202 |  | —                                                                                 | G 1/2                     | G 1/2                     |
| 5725455302 |  | —                                                                                 | G 1/2                     | G 1/2                     |
| 5725470220 |  |  | G 1/2                     | G 1/2                     |
| 5725475270 |  |  | G 1/2                     | G 1/2                     |
| 5725475280 |  |  | G 1/2                     | G 1/2                     |
| 5725475202 |  | —                                                                                 | G 1/2                     | G 1/2                     |
| R412008096 |  | —                                                                                 | G 1/2                     | G 1/2                     |
| 5725480220 |  |  | G 1/2                     | G 1/2                     |
| 5725485270 |  |  | G 1/2                     | G 1/2                     |
| 5725485280 |  |  | G 1/2                     | G 1/2                     |
| 5725485202 |  | —                                                                                 | G 1/2                     | G 1/2                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Exhaust                   | Pilot Input               |
| 5725450220 | G 1/2                     | -                         |
| 5725455270 | G 1/2                     | -                         |
| 5725455280 | G 1/2                     | -                         |
| 5725455202 | G 1/2                     | -                         |
| 5725455302 | G 1/2                     | -                         |
| 5725470220 | G 1/2                     | -                         |
| 5725475270 | G 1/2                     | -                         |
| 5725475280 | G 1/2                     | -                         |
| 5725475202 | G 1/2                     | -                         |
| R412008096 | G 1/2                     | -                         |
| 5725480220 | G 1/2                     | G 1/8                     |
| 5725485270 | G 1/2                     | G 1/8                     |
| 5725485280 | G 1/2                     | G 1/8                     |
| 5725485202 | G 1/2                     | G 1/8                     |

| Part No.   | Compressed air connection | Operational voltage | Operational voltage |
|------------|---------------------------|---------------------|---------------------|
|            | Pilot Exhaust             | DC                  | AC 50 Hz            |
| 5725450220 | M5                        | 24 V                | -                   |
| 5725455270 | M5                        | -                   | 110 V               |
| 5725455280 | M5                        | -                   | 230 V               |
| 5725455202 | -                         | -                   | -                   |
| 5725455302 | M5                        | -                   | -                   |
| 5725470220 | M5                        | 24 V                | -                   |
| 5725475270 | M5                        | -                   | 110 V               |
| 5725475280 | M5                        | -                   | 230 V               |
| 5725475202 | -                         | -                   | -                   |
| R412008096 | -                         | -                   | -                   |
| 5725480220 | M5                        | 24 V                | -                   |
| 5725485270 | M5                        | -                   | 110 V               |

| Part No.   | Compressed air connection | Operationalvoltage | Operationalvoltage |
|------------|---------------------------|--------------------|--------------------|
|            | Pilot Exhaust             | DC                 | AC 50 Hz           |
| 5725485280 | M5                        | -                  | 230 V              |
| 5725485202 | -                         | -                  | -                  |

| Part No.   | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|------------|--------------------|-------------------|-------------------|-------------------|
|            | AC 60 Hz           | DC                | AC 50 Hz          | AC 60 Hz          |
| 5725450220 | -                  | -10% / +10%       | -                 | -                 |
| 5725455270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725455280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725455202 | -                  | -                 | -                 | -                 |
| 5725455302 | -                  | -                 | -                 | -                 |
| 5725470220 | -                  | -10% / +10%       | -                 | -                 |
| 5725475270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725475280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725475202 | -                  | -                 | -                 | -                 |
| R412008096 | -                  | -                 | -                 | -                 |
| 5725480220 | -                  | -10% / +10%       | -                 | -                 |
| 5725485270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725485280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725485202 | -                  | -                 | -                 | -                 |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| 5725450220 | 2,1 W             | -             | -             | -               |
| 5725455270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725455280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725455202 | -                 | -             | -             | -               |
| 5725455302 | -                 | -             | -             | -               |
| 5725470220 | 2,1 W             | -             | -             | -               |
| 5725475270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725475280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725475202 | -                 | -             | -             | -               |
| R412008096 | -                 | -             | -             | -               |
| 5725480220 | 2,1 W             | -             | -             | -               |
| 5725485270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725485280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725485202 | -                 | -             | -             | -               |

| Part No.   | Switch-on power | Pilot    | Working pressure min./max. | Control pressure min./max. |
|------------|-----------------|----------|----------------------------|----------------------------|
|            | AC 60 Hz        |          |                            |                            |
| 5725450220 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725455270 | 5,7 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725455280 | 6,2 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725455202 | -               | internal | 2 ... 16 bar               | 2 ... 16 bar               |
| 5725455302 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725470220 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725475270 | 5,7 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725475280 | 6,2 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725475202 | -               | internal | 2 ... 16 bar               | 2 ... 16 bar               |
| R412008096 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |

| Part No.   | Switch-on power | Pilot    | Working pressure min./max. | Control pressure min./max. |
|------------|-----------------|----------|----------------------------|----------------------------|
|            | AC 60 Hz        |          |                            |                            |
| 5725480220 | -               | external | -0,95 ... 16 bar           | 2 ... 10 bar               |
| 5725485270 | 5,7 VA          | external | -0,95 ... 16 bar           | 2 ... 10 bar               |
| 5725485280 | 6,2 VA          | external | -0,95 ... 16 bar           | 2 ... 10 bar               |
| 5725485202 | -               | external | -0,95 ... 16 bar           | 2 ... 10 bar               |

| Part No.   | Ambient temperature min./max. | Medium temperature min./max. | Typ. switch-on time |
|------------|-------------------------------|------------------------------|---------------------|
| 5725450220 | -25 ... 50 °C                 | -25 ... 50 °C                | 37 ms               |
| 5725455270 | -25 ... 50 °C                 | -25 ... 50 °C                | 37 ms               |
| 5725455280 | -25 ... 50 °C                 | -25 ... 50 °C                | 37 ms               |
| 5725455202 | -25 ... 70 °C                 | -25 ... 70 °C                | -                   |
| 5725455302 | -25 ... 50 °C                 | -25 ... 50 °C                | -                   |
| 5725470220 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| 5725475270 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| 5725475280 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| 5725475202 | -15 ... 70 °C                 | -15 ... 70 °C                | -                   |
| R412008096 | -15 ... 50 °C                 | -15 ... 50 °C                | -                   |
| 5725480220 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| 5725485270 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| 5725485280 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| 5725485202 | -15 ... 70 °C                 | -15 ... 70 °C                | -                   |

| Part No.   | Typ. switch-off time | Compatibility index | Protection class | basic valve with electrical connector |
|------------|----------------------|---------------------|------------------|---------------------------------------|
|            |                      |                     | with connection  |                                       |
| 5725450220 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725455270 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725455280 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725455202 | -                    | -                   | -                | Basic valve without pilot valve       |
| 5725455302 | -                    | -                   | -                | Basic valve without coil              |
| 5725470220 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725475270 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725475280 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725475202 | -                    | -                   | -                | Basic valve without pilot valve       |
| R412008096 | -                    | 13, 14              | -                | Basic valve without coil              |
| 5725480220 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725485270 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725485280 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725485202 | 97 ms                | -                   | -                | Basic valve without pilot valve       |

Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar, MO = Manual override

1) temperature range for ATEX application: - 10 °C ... 60 °C

2) Exhaust cap

# Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
The oil content of compressed air must remain constant during the life cycle.  
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

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

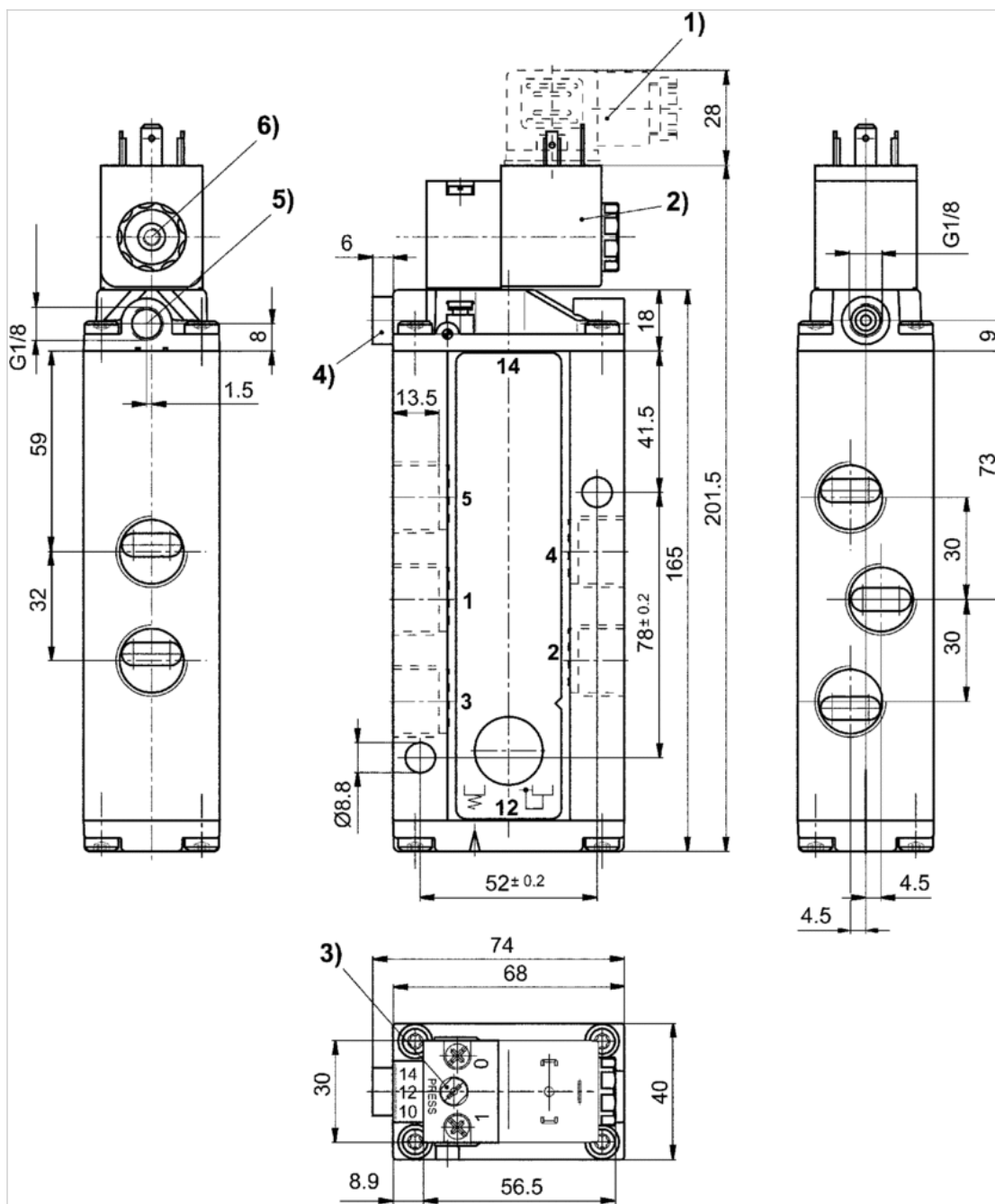
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

# Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

## Dimensions



- 1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

# 5/2-directional valve, Series CD12

- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : M22x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- single solenoid
- Pilot : internal, external



|                               |                                     |
|-------------------------------|-------------------------------------|
| Version                       | Spool valve, positive overlapping   |
| Activation                    | Electrically                        |
| Sealing principle             | Soft sealing                        |
| Working pressure min./max.    | See table below                     |
| Control pressure min./max.    | See table below                     |
| Ambient temperature min./max. | See table below                     |
| Medium temperature min./max.  | See table below                     |
| Medium                        | Compressed air                      |
| Max. particle size            | 50 µm                               |
| Oil content of compressed air | 0 ... 1 mg/m³                       |
| Nominal flow Qn               | 4100 l/min                          |
| Pilot control exhaust         | with directional pilot air exhaust  |
| Reverse polarity protection   | Protected against polarity reversal |
| Compatibility index           | See table below                     |
| Duty cycle                    | 100 %                               |
| Weight                        | See table below                     |

## Technical data

| Part No.   |                                                                                   | MO           | Compressed air connection | Compressed air connection |
|------------|-----------------------------------------------------------------------------------|--------------|---------------------------|---------------------------|
|            |                                                                                   |              | Input                     | Output                    |
| 5725400220 |  | T R-T R-T R- | M22x1,5                   | M22x1,5                   |
| 5725405270 |  |              | M22x1,5                   | M22x1,5                   |
| 5725405280 |  |              | M22x1,5                   | M22x1,5                   |
| 5725405202 |  | -            | M22x1,5                   | M22x1,5                   |
| R412013341 |  | T R-T R-     | M22x1,5                   | M22x1,5                   |
| R412013342 |  |              | M22x1,5                   | M22x1,5                   |
| R412000243 |  | -            | M22x1,5                   | M22x1,5                   |
| R412000242 |  | -            | M22x1,5                   | M22x1,5                   |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Exhaust                   | Pilot Input               |
| 5725400220 | M22x1,5                   | -                         |
| 5725405270 | M22x1,5                   | -                         |
| 5725405280 | M22x1,5                   | -                         |
| 5725405202 | M22x1,5                   | -                         |
| R412013341 | M22x1,5                   | -                         |
| R412013342 | M22x1,5                   | -                         |
| R412000243 | M22x1,5                   | -                         |
| R412000242 | M22x1,5                   | G 1/8                     |

| Part No.   | Compressed air connection | Operationalvoltage | Operationalvoltage |
|------------|---------------------------|--------------------|--------------------|
|            | Pilot Exhaust             | DC                 | AC 50 Hz           |
| 5725400220 | M5                        | 24 V               | -                  |
| 5725405270 | M5                        | -                  | 110 V              |
| 5725405280 | M5                        | -                  | 230 V              |
| 5725405202 | -                         | -                  | -                  |
| R412013341 | M5                        | 24 V               | -                  |
| R412013342 | M5                        | -                  | 230 V              |
| R412000243 | -                         | -                  | -                  |
| R412000242 | -                         | -                  | -                  |

| Part No.   | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|------------|--------------------|-------------------|-------------------|-------------------|
|            | AC 60 Hz           | DC                | AC 50 Hz          | AC 60 Hz          |
| 5725400220 | -                  | -10% / +10%       | -                 | -                 |
| 5725405270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725405280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725405202 | -                  | -                 | -                 | -                 |
| R412013341 | -                  | -10% / +10%       | -                 | -                 |
| R412013342 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| R412000243 | -                  | -                 | -                 | -                 |
| R412000242 | -                  | -                 | -                 | -                 |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| 5725400220 | 2,1 W             | -             | -             | -               |
| 5725405270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725405280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| 5725405202 | -                 | -             | -             | -               |
| R412013341 | 2,1 W             | -             | -             | -               |
| R412013342 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| R412000243 | -                 | -             | -             | -               |
| R412000242 | -                 | -             | -             | -               |

| Part No.   | Switch-on power | Pilot    | Working pressure min./max. | Control pressure min./max. |
|------------|-----------------|----------|----------------------------|----------------------------|
|            | AC 60 Hz        |          |                            |                            |
| 5725400220 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725405270 | 5,7 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725405280 | 6,2 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725405202 | -               | internal | 2 ... 16 bar               | 2 ... 16 bar               |
| R412013341 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| R412013342 | 6,2 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| R412000243 | -               | internal | 2 ... 16 bar               | 2 ... 16 bar               |
| R412000242 | -               | external | -0,95 ... 16 bar           | 2 ... 10 bar               |

| Part No.   | Ambient temperature min./max. | Medium temperature min./max. | Typ. switch-on time |
|------------|-------------------------------|------------------------------|---------------------|
| 5725400220 | -25 ... 50 °C                 | -25 ... 50 °C                | 37 ms               |
| 5725405270 | -25 ... 50 °C                 | -25 ... 50 °C                | 37 ms               |
| 5725405280 | -25 ... 50 °C                 | -25 ... 50 °C                | 37 ms               |
| 5725405202 | -25 ... 70 °C                 | -25 ... 70 °C                | -                   |
| R412013341 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| R412013342 | -15 ... 50 °C                 | -15 ... 50 °C                | 37 ms               |
| R412000243 | -15 ... 70 °C                 | -15 ... 70 °C                | -                   |
| R412000242 | -15 ... 70 °C                 | -15 ... 70 °C                | -                   |

| Part No.   | Typ. switch-off time | Compatibility index | Protection class | basic valve with electrical connector |
|------------|----------------------|---------------------|------------------|---------------------------------------|
|            |                      |                     | with connection  |                                       |
| 5725400220 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725405270 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725405280 | 97 ms                | 13, 14              | IP65             | -                                     |
| 5725405202 | -                    | -                   | -                | Basic valve without pilot valve       |
| R412013341 | 97 ms                | 13, 14              | IP65             | -                                     |
| R412013342 | 97 ms                | 14                  | IP65             | -                                     |
| R412000243 | -                    | -                   | -                | Basic valve without pilot valve       |
| R412000242 | 97 ms                | -                   | -                | Basic valve without pilot valve       |

Base valves without pilot valves can be combined with DO30 series valves., Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar, MO = Manual override

## Technical information

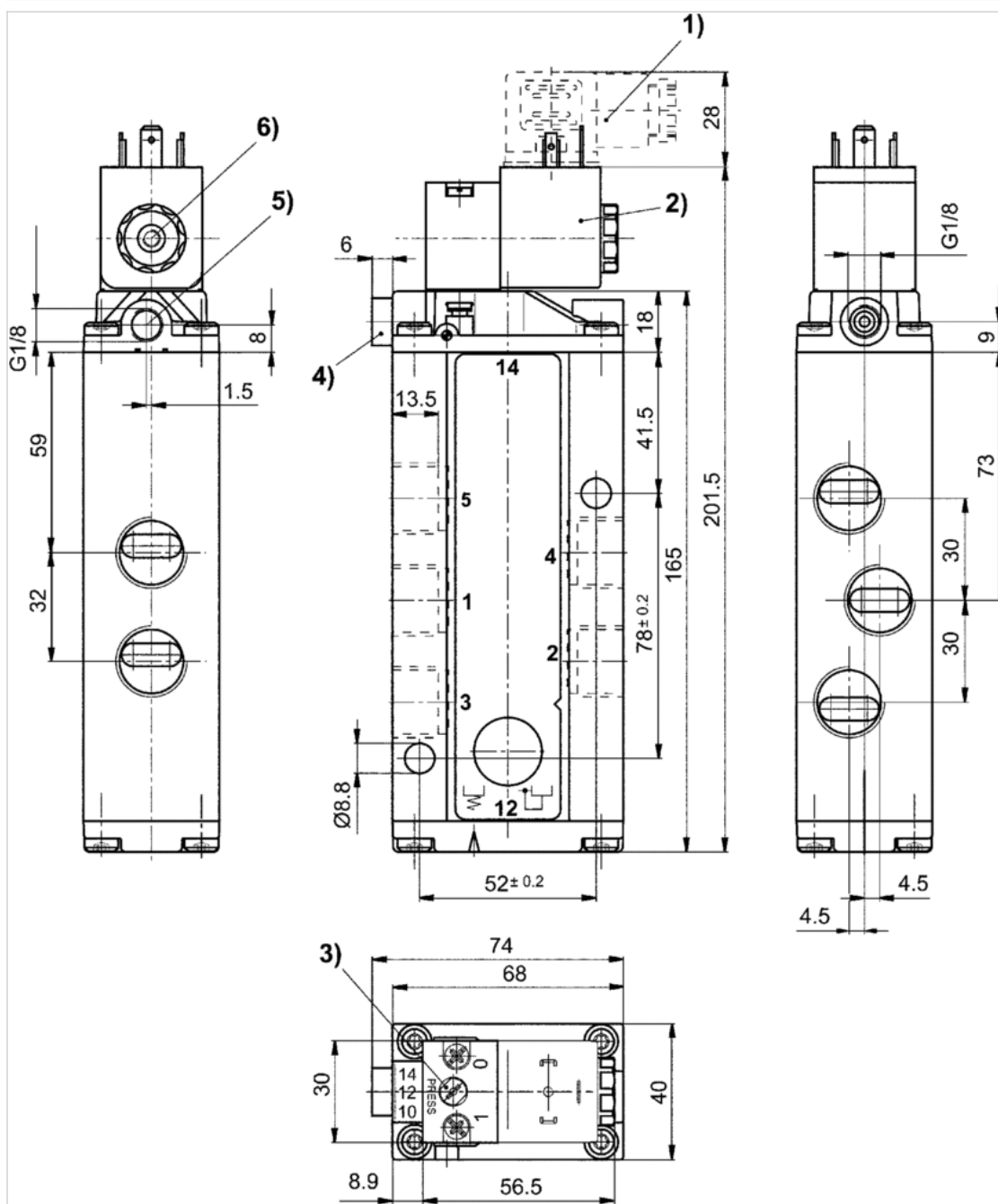
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!  
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .  
The oil content of compressed air must remain constant during the life cycle.  
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).  
  
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

## Technical information

| Material |  |                                              |
|----------|--|----------------------------------------------|
| Housing  |  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    |  | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

## Dimensions



- 1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X (only for externally piloted valves) 5) Exhaust port of piston 6) Pilot valve exhaust, M5

## 5/2-directional valve, Series CD12

- $Q_n = 4100 \text{ l/min}$
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- Double solenoid
- Pilot : internal, external



|                               |                                     |
|-------------------------------|-------------------------------------|
| Version                       | Spool valve, positive overlapping   |
| Activation                    | Electrically                        |
| Sealing principle             | Soft sealing                        |
| Working pressure min./max.    | See table below                     |
| Control pressure min./max.    | See table below                     |
| Ambient temperature min./max. | See table below                     |
| Medium temperature min./max.  | See table below                     |
| Medium                        | Compressed air                      |
| Max. particle size            | 50 $\mu\text{m}$                    |
| Oil content of compressed air | 0 ... 1 $\text{mg/m}^3$             |
| Nominal flow $Q_n$            | 4100 l/min                          |
| Compressed air connection     | according to ISO 228-1              |
| Pilot control exhaust         | with directional pilot air exhaust  |
| Connector standard            | EN 175301-803:2006                  |
| Reverse polarity protection   | Protected against polarity reversal |
| Compatibility index           | See table below                     |
| Duty cycle                    | 100 %                               |
| Weight                        | See table below                     |

## Technical data

| Part No.   |                                                                                   | MO                | Compressed air connection | Compressed air connection |
|------------|-----------------------------------------------------------------------------------|-------------------|---------------------------|---------------------------|
|            |                                                                                   |                   | Input                     | Output                    |
| R412008097 |  | T R T R T R T R - | G 1/2                     | G 1/2                     |
| 5725550220 |  |                   | G 1/2                     | G 1/2                     |
| 5725555270 |  |                   | G 1/2                     | G 1/2                     |
| 5725555280 |  |                   | G 1/2                     | G 1/2                     |
| 5725555202 |  | -                 | G 1/2                     | G 1/2                     |
| 5725560220 |  | T R T R T R -     | G 1/2                     | G 1/2                     |
| 5725565270 |  |                   | G 1/2                     | G 1/2                     |
| 5725565280 |  |                   | G 1/2                     | G 1/2                     |
| 5725565202 |  | -                 | G 1/2                     | G 1/2                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Exhaust                   | Pilot Input               |
| R412008097 | G 1/2                     | -                         |
| 5725550220 | G 1/2                     | -                         |
| 5725555270 | G 1/2                     | -                         |
| 5725555280 | G 1/2                     | -                         |
| 5725555202 | G 1/2                     | -                         |
| 5725560220 | G 1/2                     | G 1/8                     |
| 5725565270 | G 1/2                     | G 1/8                     |
| 5725565280 | G 1/2                     | G 1/8                     |
| 5725565202 | G 1/2                     | G 1/8                     |

| Part No.   | Compressed air connection | Operationalvoltage | Operationalvoltage |
|------------|---------------------------|--------------------|--------------------|
|            | Pilot Exhaust             | DC                 | AC 50 Hz           |
| R412008097 | -                         | -                  | -                  |
| 5725550220 | M5                        | 24 V               | -                  |
| 5725555270 | M5                        | -                  | 110 V              |
| 5725555280 | M5                        | -                  | 230 V              |
| 5725555202 | -                         | -                  | -                  |
| 5725560220 | M5                        | 24 V               | -                  |
| 5725565270 | M5                        | -                  | 110 V              |
| 5725565280 | M5                        | -                  | 230 V              |
| 5725565202 | -                         | -                  | -                  |

| Part No.   | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|------------|--------------------|-------------------|-------------------|-------------------|
|            | AC 60 Hz           | DC                | AC 50 Hz          | AC 60 Hz          |
| R412008097 | -                  | -                 | -                 | -                 |
| 5725550220 | -                  | -10% / +10%       | -                 | -                 |
| 5725555270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725555280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725555202 | -                  | -                 | -                 | -                 |
| 5725560220 | -                  | -10% / +10%       | -                 | -                 |
| 5725565270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725565280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725565202 | -                  | -                 | -                 | -                 |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| R412008097 | -                 | -             | -             | -               |
| 5725550220 | 2,1 W             | -             | -             | -               |
| 5725555270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725555280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725555202 | -                 | -             | -             | -               |
| 5725560220 | 2,1 W             | -             | -             | -               |
| 5725565270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725565280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725565202 | -                 | -             | -             | -               |

| Part No.   | Switch-on power | Pilot    | Working pressure min./max. | Control pressure min./max. |
|------------|-----------------|----------|----------------------------|----------------------------|
|            | AC 60 Hz        |          |                            |                            |
| R412008097 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725550220 | -               | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725555270 | 5,7 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725555280 | 6,2 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725555202 | -               | internal | 2 ... 16 bar               | 2 ... 16 bar               |
| 5725560220 | -               | external | -0,95 ... 16 bar           | 2 ... 10 bar               |
| 5725565270 | 5,7 VA          | external | -0,95 ... 16 bar           | 2 ... 10 bar               |
| 5725565280 | 6,2 VA          | external | -0,95 ... 16 bar           | 2 ... 10 bar               |
| 5725565202 | -               | external | -0,95 ... 16 bar           | 2 ... 16 bar               |

| Part No.   | Ambient temperature min./max. | Medium temperature min./max. | Typ. switch-on time |
|------------|-------------------------------|------------------------------|---------------------|
| R412008097 | -25 ... 50 °C                 | -25 ... 50 °C                | -                   |
| 5725550220 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725555270 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725555280 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725555202 | -25 ... 70 °C                 | -25 ... 70 °C                | -                   |
| 5725560220 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725565270 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725565280 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725565202 | -25 ... 70 °C                 | -25 ... 70 °C                | -                   |

| Part No.   | Typ. switch-off time | Compatibility index | Protection class | basic valve with electrical connector |
|------------|----------------------|---------------------|------------------|---------------------------------------|
|            |                      |                     | with connection  |                                       |
| R412008097 | -                    | 13, 14              | -                | Basic valve without coil              |
| 5725550220 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725555270 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725555280 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725555202 | -                    | -                   | -                | Basic valve without pilot valve       |
| 5725560220 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725565270 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725565280 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725565202 | -                    | -                   | -                | Basic valve without pilot valve       |

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) Exhaust cap

# Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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

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

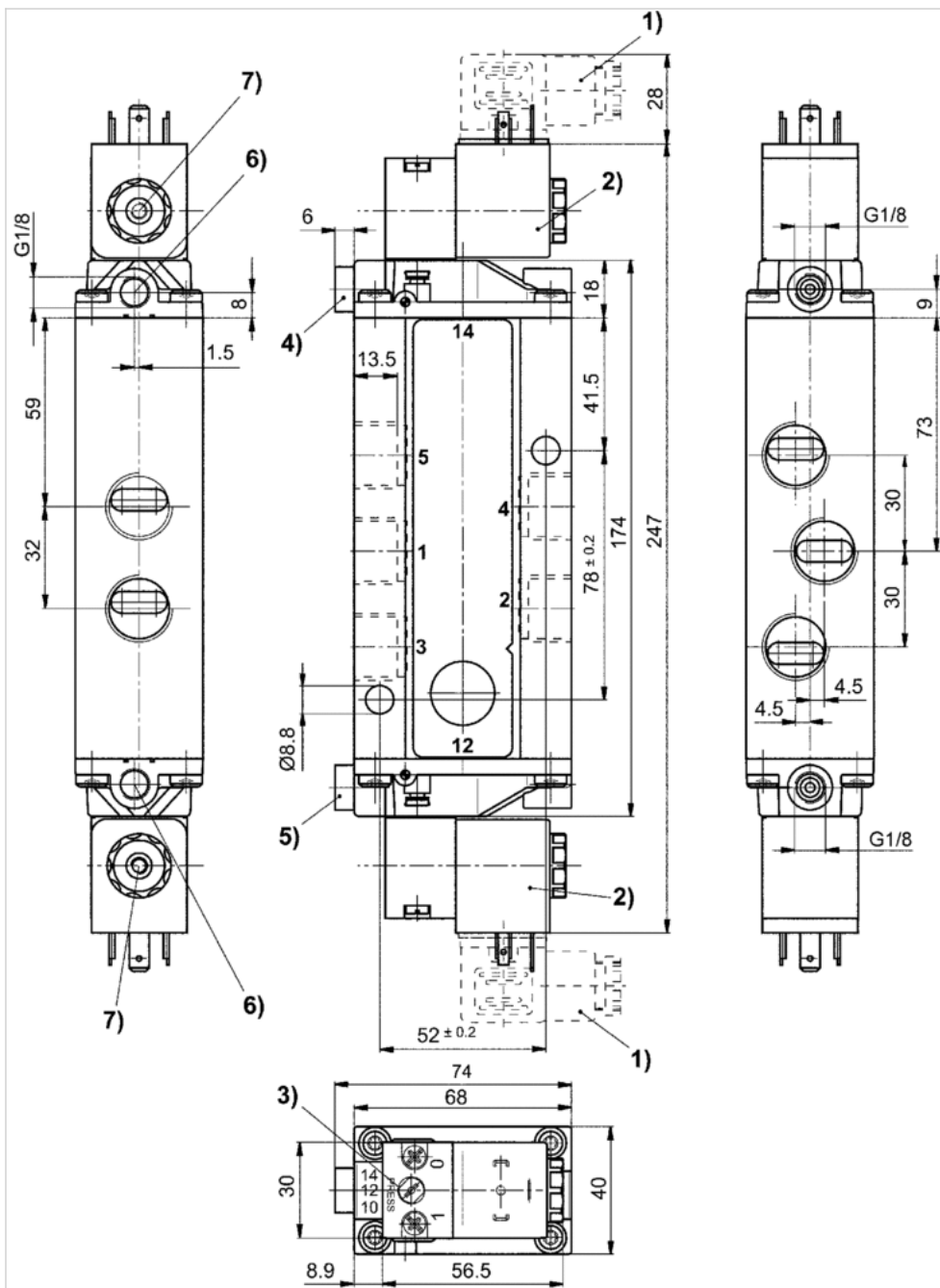
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

# Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

### Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

# 5/2-directional valve, Series CD12

- Qn = 4100 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : M22x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- Double solenoid
- Pilot : internal, external



|                               |                                     |
|-------------------------------|-------------------------------------|
| Version                       | Spool valve, positive overlapping   |
| Activation                    | Electrically                        |
| Sealing principle             | Soft sealing                        |
| Working pressure min./max.    | See table below                     |
| Control pressure min./max.    | See table below                     |
| Ambient temperature min./max. | See table below                     |
| Medium temperature min./max.  | See table below                     |
| Medium                        | Compressed air                      |
| Max. particle size            | 50 µm                               |
| Oil content of compressed air | 0 ... 1 mg/m³                       |
| Nominal flow Qn               | 4100 l/min                          |
| Pilot control exhaust         | with directional pilot air exhaust  |
| Connector standard            | EN 175301-803:2006                  |
| Reverse polarity protection   | Protected against polarity reversal |
| Compatibility index           | See table below                     |
| Duty cycle                    | 100 %                               |
| Weight                        | See table below                     |

## Technical data

| Part No.   |                                                                                   | MO           | Compressed air connection | Compressed air connection |
|------------|-----------------------------------------------------------------------------------|--------------|---------------------------|---------------------------|
|            |                                                                                   |              | Input                     | Output                    |
| 5725500220 |  | T R-T R-T R- | M22x1,5                   | M22x1,5                   |
| 5725505270 |  |              | M22x1,5                   | M22x1,5                   |
| 5725505280 |  |              | M22x1,5                   | M22x1,5                   |
| 5725505202 |  | -            | M22x1,5                   | M22x1,5                   |
| R412000244 |  | -            | M22x1,5                   | M22x1,5                   |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Exhaust                   | Pilot Input               |
| 5725500220 | M22x1,5                   | -                         |
| 5725505270 | M22x1,5                   | -                         |
| 5725505280 | M22x1,5                   | -                         |
| 5725505202 | M22x1,5                   | -                         |
| R412000244 | M22x1,5                   | G 1/8                     |

| Part No.   | Compressed air connection | Operationalvoltage | Operationalvoltage |
|------------|---------------------------|--------------------|--------------------|
|            | Pilot Exhaust             | DC                 | AC 50 Hz           |
| 5725500220 | M5                        | 24 V               | -                  |
| 5725505270 | M5                        | -                  | 110 V              |
| 5725505280 | M5                        | -                  | 230 V              |
| 5725505202 | -                         | -                  | -                  |
| R412000244 | -                         | -                  | -                  |

| Part No.   | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|------------|--------------------|-------------------|-------------------|-------------------|
|            | AC 60 Hz           | DC                | AC 50 Hz          | AC 60 Hz          |
| 5725500220 | -                  | -10% / +10%       | -                 | -                 |
| 5725505270 | 110 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725505280 | 230 V              | -                 | -20% / +10%       | -10% / +20%       |
| 5725505202 | -                  | -                 | -                 | -                 |
| R412000244 | -                  | -                 | -                 | -                 |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| 5725500220 | 2,1 W             | -             | -             | -               |
| 5725505270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725505280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725505202 | -                 | -             | -             | -               |
| R412000244 | -                 | -             | -             | -               |

| Part No.   | Switch-on power | Pilot    | Working pressure min./max. | Control pressure min./max. |
|------------|-----------------|----------|----------------------------|----------------------------|
|            | AC 60 Hz        |          |                            |                            |
| 5725500220 | -               | internal | 2 ... 10 bar               | 2 ... 16 bar               |
| 5725505270 | 5,7 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725505280 | 6,2 VA          | internal | 2 ... 10 bar               | 2 ... 10 bar               |
| 5725505202 | -               | internal | 2 ... 16 bar               | 2 ... 16 bar               |
| R412000244 | -               | external | -0,95 ... 16 bar           | 2 ... 16 bar               |

| Part No.   | Ambient temperature min./max. | Medium temperature min./max. | Typ. switch-on time |
|------------|-------------------------------|------------------------------|---------------------|
| 5725500220 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725505270 | -25 ... 50 °C                 | -25 ... 50 °C                | 36 ms               |
| 5725505280 | -15 ... 50 °C                 | -15 ... 50 °C                | 36 ms               |
| 5725505202 | -25 ... 70 °C                 | -25 ... 70 °C                | -                   |
| R412000244 | -25 ... 70 °C                 | -25 ... 70 °C                | -                   |

| Part No.   | Typ. switch-off time | Compatibility index | Protection class | basic valve with electrical connector |
|------------|----------------------|---------------------|------------------|---------------------------------------|
|            |                      |                     | with connection  |                                       |
| 5725500220 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725505270 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725505280 | 36 ms                | 13, 14              | IP65             | -                                     |
| 5725505202 | -                    | -                   | -                | Basic valve without pilot valve       |
| R412000244 | -                    | -                   | -                | Basic valve without pilot valve       |

Base valves without pilot valves can be combined with DO30 series valves., Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar, MO = Manual override

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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

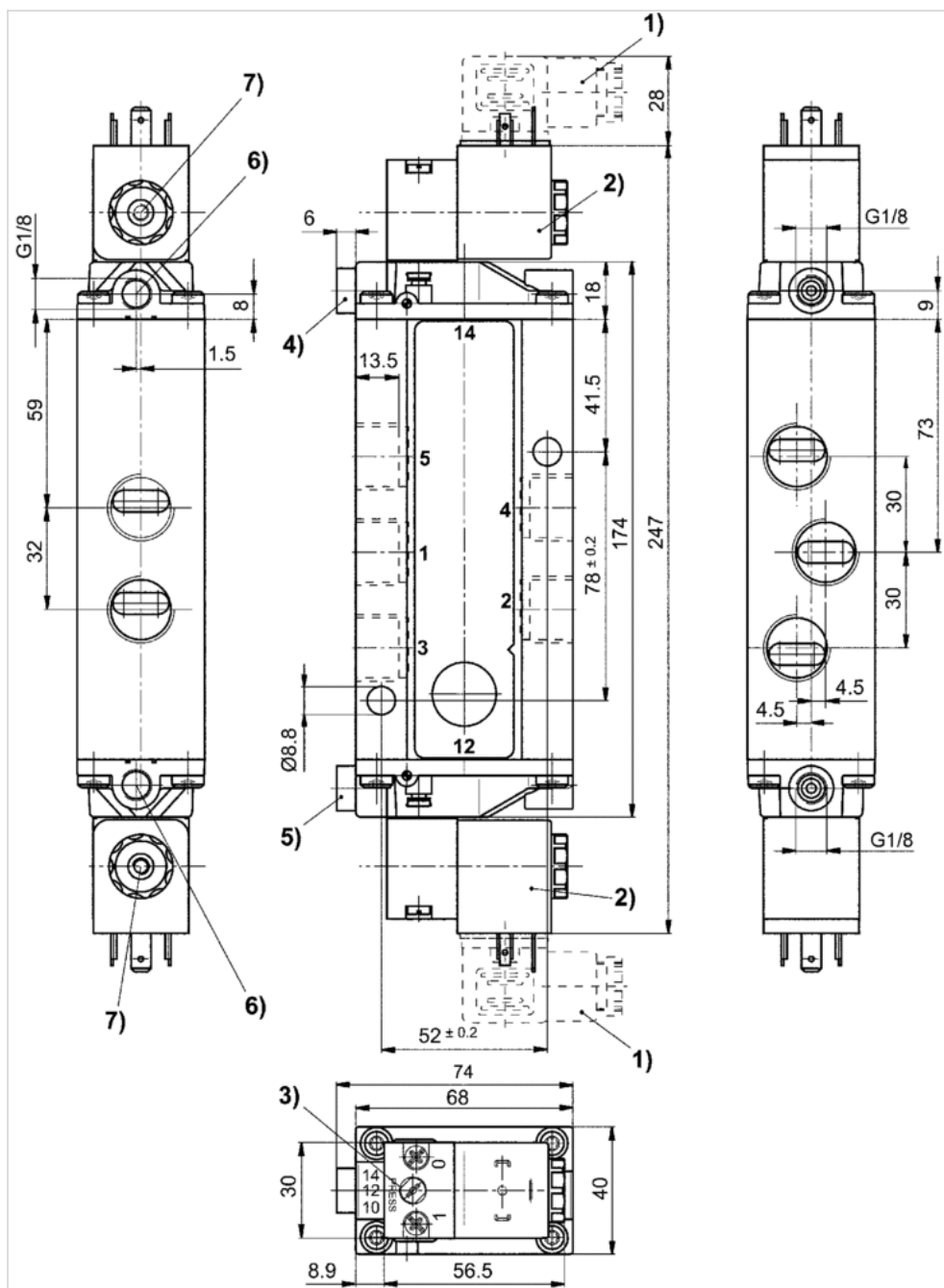
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

## Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

### Dimensions



1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

## 5/3-directional valve, Series CD12

- $Q_n = 3800 \text{ l/min}$
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/2
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without detent
- Double solenoid
- With spring return
- Pilot : internal, external



Version

Activation

Sealing principle

Working pressure min./max.

Control pressure min./max.

Ambient temperature min./max.

Medium temperature min./max.

Medium

Max. particle size

Oil content of compressed air

Nominal flow  $Q_n$

Nominal flow 1 ► 2

Nominal flow 2 ► 3

Compressed air connection

Pilot control exhaust

Connector standard

Reverse polarity protection

Compatibility index

Duty cycle

Weight

Spool valve, positive overlapping

Electrically

Soft sealing

See table below

See table below

See table below

See table below

Compressed air

50  $\mu\text{m}$

0 ... 1  $\text{mg/m}^3$

See table below

See table below

See table below

according to ISO 228-1

with directional pilot air exhaust

EN 175301-803:2006

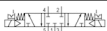
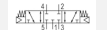
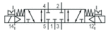
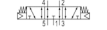
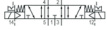
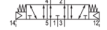
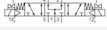
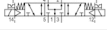
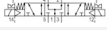
Protected against polarity reversal

See table below

100 %

See table below

## Technical data

| Part No.   |                                                                                     | MO                       | Compressed air connection |        |
|------------|-------------------------------------------------------------------------------------|--------------------------|---------------------------|--------|
|            |                                                                                     |                          | Input                     | Output |
| 5725650220 |    | T R-T R-T R-T R-T R-T R- | G 1/2                     | G 1/2  |
| 5725650920 |    |                          | G 1/2                     | G 1/2  |
| 5725655270 |    |                          | G 1/2                     | G 1/2  |
| 5725655280 |    |                          | G 1/2                     | G 1/2  |
| 5725655980 |    |                          | G 1/2                     | G 1/2  |
| 5725655202 |    | T R-T R-T R-T R-T R-T R- | G 1/2                     | G 1/2  |
| R412008098 |    |                          | G 1/2                     | G 1/2  |
| R412000127 |    |                          | G 1/2                     | G 1/2  |
| R412000148 |    |                          | G 1/2                     | G 1/2  |
| R412000149 |    |                          | G 1/2                     | G 1/2  |
| R412000151 |    | T R-T R-T R-T R-T R-T R- | G 1/2                     | G 1/2  |
| R412000224 |    |                          | G 1/2                     | G 1/2  |
| R412000225 |    |                          | G 1/2                     | G 1/2  |
| R412000230 |    |                          | G 1/2                     | G 1/2  |
| R412000237 |    |                          | G 1/2                     | G 1/2  |
| 5725680220 |    | T R-T R-T R-T R-T R-T R- | G 1/2                     | G 1/2  |
| 5725685270 |  |                          | G 1/2                     | G 1/2  |
| 5725685280 |  |                          | G 1/2                     | G 1/2  |
| 5725685202 |  |                          | G 1/2                     | G 1/2  |
| R412000219 |  |                          | G 1/2                     | G 1/2  |
| R412000220 |  | T R-T R-T R-T R-T R-T R- | G 1/2                     | G 1/2  |
| R412000221 |  |                          | G 1/2                     | G 1/2  |
| R412000222 |  |                          | G 1/2                     | G 1/2  |
| R412000153 |  |                          | G 1/2                     | G 1/2  |
| R412000154 |  |                          | G 1/2                     | G 1/2  |
| R412000157 |  | T R-T R-T R-T R-T R-T R- | G 1/2                     | G 1/2  |
| R412000160 |  |                          | G 1/2                     | G 1/2  |

| Part No.   | Compressed air connection |             |
|------------|---------------------------|-------------|
|            | Exhaust                   | Pilot Input |
| 5725650220 | G 1/2                     | -           |
| 5725650920 | G 1/2                     | -           |
| 5725655270 | G 1/2                     | -           |
| 5725655280 | G 1/2                     | -           |
| 5725655980 | G 1/2                     | -           |
| 5725655202 | G 1/2                     | -           |
| R412008098 | G 1/2                     | -           |
| R412000127 | G 1/2                     | G 1/8       |
| R412000148 | G 1/2                     | G 1/8       |
| R412000149 | G 1/2                     | G 1/8       |
| R412000151 | G 1/2                     | G 1/8       |
| R412000224 | G 1/2                     | -           |
| R412000225 | G 1/2                     | -           |
| R412000230 | G 1/2                     | -           |
| R412000237 | G 1/2                     | -           |
| 5725680220 | G 1/2                     | G 1/8       |

| Part No.   | Compressed air connection |             |
|------------|---------------------------|-------------|
|            | Exhaust                   | Pilot Input |
| 5725685270 | G 1/2                     | G 1/8       |
| 5725685280 | G 1/2                     | G 1/8       |
| 5725685202 | G 1/2                     | G 1/8       |
| R412000219 | G 1/2                     | -           |
| R412000220 | G 1/2                     | -           |
| R412000221 | G 1/2                     | -           |
| R412000222 | G 1/2                     | -           |
| R412000153 | G 1/2                     | G 1/8       |
| R412000154 | G 1/2                     | G 1/8       |
| R412000157 | G 1/2                     | G 1/8       |
| R412000160 | G 1/2                     | G 1/8       |

| Part No.   | Compressed air connection |  | Operationalvoltage |          |
|------------|---------------------------|--|--------------------|----------|
|            | Pilot Exhaust             |  | DC                 | AC 50 Hz |
| 5725650220 | M5                        |  | 24 V               | -        |
| 5725650920 | -                         |  | 24 V               | -        |
| 5725655270 | M5                        |  | -                  | 110 V    |
| 5725655280 | M5                        |  | -                  | 230 V    |
| 5725655980 | -                         |  | -                  | 230 V    |
| 5725655202 | -                         |  | -                  | -        |
| R412008098 | M5                        |  | -                  | -        |
| R412000127 | M5                        |  | 24 V               | -        |
| R412000148 | M5                        |  | -                  | 110 V    |
| R412000149 | M5                        |  | -                  | 230 V    |
| R412000151 | -                         |  | -                  | -        |
| R412000224 | M5                        |  | 24 V               | -        |
| R412000225 | M5                        |  | -                  | 110 V    |
| R412000230 | M5                        |  | -                  | 230 V    |
| R412000237 | -                         |  | -                  | -        |
| 5725680220 | M5                        |  | 24 V               | -        |
| 5725685270 | M5                        |  | -                  | 110 V    |
| 5725685280 | M5                        |  | -                  | 230 V    |
| 5725685202 | -                         |  | -                  | -        |
| R412000219 | M5                        |  | 24 V               | -        |
| R412000220 | M5                        |  | -                  | 110 V    |
| R412000221 | M5                        |  | -                  | 230 V    |
| R412000222 | -                         |  | -                  | -        |
| R412000153 | M5                        |  | 24 V               | -        |
| R412000154 | M5                        |  | -                  | 110 V    |
| R412000157 | M5                        |  | -                  | 230 V    |
| R412000160 | -                         |  | -                  | -        |

| Part No.   | Operationalvoltage |             | Voltage tolerance |             |
|------------|--------------------|-------------|-------------------|-------------|
|            | AC 60 Hz           | DC          | AC 50 Hz          | AC 60 Hz    |
| 5725650220 | -                  | -10% / +10% | -                 | -           |
| 5725650920 | -                  | -10% / +10% | -                 | -           |
| 5725655270 | 110 V              | -           | -20% / +10%       | -10% / +20% |
| 5725655280 | 230 V              | -           | -20% / +10%       | -10% / +20% |
| 5725655980 | 230 V              | -           | -20% / +10%       | -10% / +20% |

| Part No.   | Operational voltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|------------|---------------------|-------------------|-------------------|-------------------|
|            | AC 60 Hz            | DC                | AC 50 Hz          | AC 60 Hz          |
| 5725655202 | -                   | -                 | -                 | -                 |
| R412008098 | -                   | -                 | -                 | -                 |
| R412000127 | -                   | -10% / +10%       | -                 | -                 |
| R412000148 | 110 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000149 | 230 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000151 | -                   | -                 | -                 | -                 |
| R412000224 | -                   | -10% / +10%       | -                 | -                 |
| R412000225 | 110 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000230 | 230 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000237 | -                   | -                 | -                 | -                 |
| 5725680220 | -                   | -10% / +10%       | -                 | -                 |
| 5725685270 | 110 V               | -                 | -20% / +10%       | -10% / +20%       |
| 5725685280 | 230 V               | -                 | -20% / +10%       | -10% / +20%       |
| 5725685202 | -                   | -                 | -                 | -                 |
| R412000219 | -                   | -10% / +10%       | -                 | -                 |
| R412000220 | 110 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000221 | 230 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000222 | -                   | -                 | -                 | -                 |
| R412000153 | -                   | -10% / +10%       | -                 | -                 |
| R412000154 | 110 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000157 | 230 V               | -                 | -20% / +10%       | -10% / +20%       |
| R412000160 | -                   | -                 | -                 | -                 |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| 5725650220 | 2,1 W             | -             | -             | -               |
| 5725650920 | 2,1 W             | -             | -             | -               |
| 5725655270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725655280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725655980 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725655202 | -                 | -             | -             | -               |
| R412008098 | -                 | -             | -             | -               |
| R412000127 | 2,1 W             | -             | -             | -               |
| R412000148 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| R412000149 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| R412000151 | -                 | -             | -             | -               |
| R412000224 | 2,1 W             | -             | -             | -               |
| R412000225 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| R412000230 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| R412000237 | -                 | -             | -             | -               |
| 5725680220 | 2,1 W             | -             | -             | -               |
| 5725685270 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| 5725685280 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| 5725685202 | -                 | -             | -             | -               |
| R412000219 | 2,1 W             | -             | -             | -               |
| R412000220 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| R412000221 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| R412000222 | -                 | -             | -             | -               |

| Part No.   | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
|            | DC                | AC 50 Hz      | AC 60 Hz      | AC 50 Hz        |
| R412000153 | 2,1 W             | -             | -             | -               |
| R412000154 | -                 | 4,3 VA        | 3,3 VA        | 6,8 VA          |
| R412000157 | -                 | 4,4 VA        | 3,5 VA        | 6,9 VA          |
| R412000160 | -                 | -             | -             | -               |

| Part No.   | Switch-on power | Pilot    | Nominal flow Qn | Nominal flow 1 ► 2 | Nominal flow 2 ► 3 |
|------------|-----------------|----------|-----------------|--------------------|--------------------|
|            | AC 60 Hz        |          |                 |                    |                    |
| 5725650220 | -               | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| 5725650920 | -               | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| 5725655270 | 5,7 VA          | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| 5725655280 | 6,2 VA          | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| 5725655980 | 6,2 VA          | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| 5725655202 | -               | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| R412008098 | -               | internal | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| R412000127 | -               | external | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| R412000148 | 5,7 VA          | external | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| R412000149 | 6,2 VA          | external | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| R412000151 | -               | external | 3800 l/min      | 3800 l/min         | 3800 l/min         |
| R412000224 | -               | internal | -               | 3600 l/min         | 4100 l/min         |
| R412000225 | 5,7 VA          | internal | -               | 3600 l/min         | 4100 l/min         |
| R412000230 | 6,2 VA          | internal | -               | 3600 l/min         | 4100 l/min         |
| R412000237 | -               | internal | -               | 3600 l/min         | 4100 l/min         |
| 5725680220 | -               | external | -               | 3600 l/min         | 4100 l/min         |
| 5725685270 | 5,7 VA          | external | -               | 3600 l/min         | 4100 l/min         |
| 5725685280 | 6,2 VA          | external | -               | 3600 l/min         | 4100 l/min         |
| 5725685202 | -               | external | -               | 3600 l/min         | 4100 l/min         |
| R412000219 | -               | internal | -               | 4100 l/min         | 3800 l/min         |
| R412000220 | 5,7 VA          | internal | -               | 4100 l/min         | 3800 l/min         |
| R412000221 | 6,2 VA          | internal | -               | 4100 l/min         | 3800 l/min         |
| R412000222 | -               | internal | -               | 4100 l/min         | 3800 l/min         |
| R412000153 | -               | external | -               | 4100 l/min         | 3800 l/min         |
| R412000154 | 5,7 VA          | external | -               | 4100 l/min         | 3800 l/min         |
| R412000157 | 6,2 VA          | external | -               | 4100 l/min         | 3800 l/min         |
| R412000160 | -               | external | -               | 4100 l/min         | 3800 l/min         |

| Part No.   | Working pressure min./max. | Control pressure min./max. | Ambient temperature min./max. |
|------------|----------------------------|----------------------------|-------------------------------|
| 5725650220 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725650920 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725655270 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725655280 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725655980 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725655202 | 3 ... 16 bar               | 3 ... 16 bar               | -15 ... 70 °C                 |
| R412008098 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000127 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000148 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000149 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000151 | -0,95 ... 16 bar           | 3 ... 16 bar               | -15 ... 70 °C                 |
| R412000224 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |

| Part No.   | Working pressure min./max. | Control pressure min./max. | Ambient temperature min./max. |
|------------|----------------------------|----------------------------|-------------------------------|
| R412000225 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000230 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000237 | 3 ... 16 bar               | 3 ... 16 bar               | -15 ... 70 °C                 |
| 5725680220 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725685270 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725685280 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| 5725685202 | -0,95 ... 16 bar           | 3 ... 16 bar               | -15 ... 70 °C                 |
| R412000219 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000220 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000221 | 3 ... 10 bar               | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000222 | 3 ... 16 bar               | 3 ... 16 bar               | -15 ... 70 °C                 |
| R412000153 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000154 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000157 | -0,95 ... 16 bar           | 3 ... 10 bar               | -15 ... 50 °C                 |
| R412000160 | -0,95 ... 16 bar           | 3 ... 16 bar               | -15 ... 70 °C                 |

| Part No.   | Medium temperature min./max. | Typ. switch-on time | Typ. switch-off time | Compatibility index |
|------------|------------------------------|---------------------|----------------------|---------------------|
| 5725650220 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725650920 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725655270 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725655280 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725655980 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725655202 | -15 ... 70 °C                | -                   | -                    | -                   |
| R412008098 | -15 ... 50 °C                | -                   | -                    | 13, 14              |
| R412000127 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000148 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000149 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000151 | -15 ... 70 °C                | -                   | -                    | -                   |
| R412000224 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000225 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000230 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000237 | -15 ... 70 °C                | -                   | -                    | -                   |
| 5725680220 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725685270 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725685280 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| 5725685202 | -15 ... 70 °C                | -                   | -                    | -                   |
| R412000219 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000220 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000221 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000222 | -15 ... 70 °C                | -                   | -                    | -                   |
| R412000153 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000154 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000157 | -15 ... 50 °C                | 37 ms               | 97 ms                | 13, 14              |
| R412000160 | -15 ... 70 °C                | -                   | -                    | -                   |

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

1) Exhaust cap

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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

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

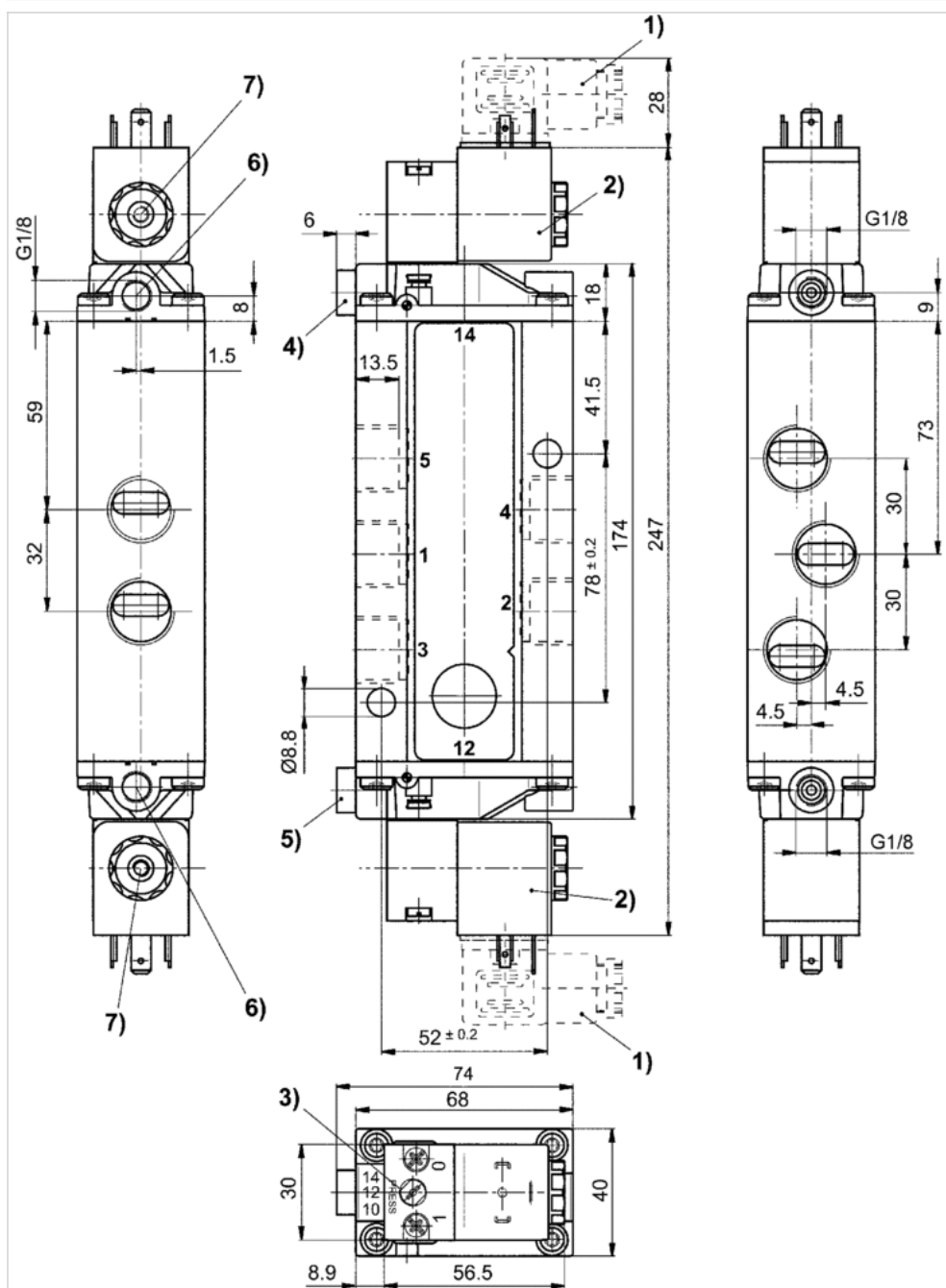
\*Note: Basic valves feature a maximum working pressure of 16 bar. When combined with standard CNOMO pilots, the maximum working pressure is 10 bar.

## Technical information

| Material |  |                                              |
|----------|--|----------------------------------------------|
| Housing  |  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    |  | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

## Dimensions



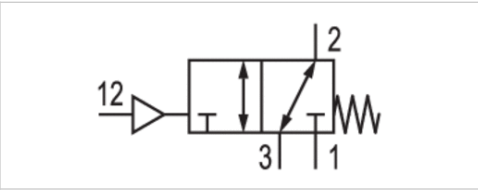
- 1) Valve plug connector 2) Coil can be rotated at 90° intervals 3) Manual override 4) Port X, side 14 5) Port X, side 12 6) Port without function 7) Pilot valve exhaust, M5

# 3/2-directional valve, Series CD12

- Qn = 4000 l/min
- Compressed air connection output G 1/2
- Single air pilot
- Pipe connection
- suitable for ATEX



|                               |                                   |
|-------------------------------|-----------------------------------|
| Version                       | Spool valve, positive overlapping |
| Activation                    | Pneumatically                     |
| Sealing principle             | Soft sealing                      |
| Flow rate value Qn            | 4000 l/min                        |
| Working pressure min./max.    | -0,95 ... 16 bar                  |
| Control pressure min./max.    | 2 ... 10 bar                      |
| Ambient temperature min./max. | -25 ... 70 °C                     |
| Medium temperature min./max.  | -25 ... 70 °C                     |
| Medium                        | Compressed air                    |
| Max. particle size            | 50 µm                             |
| Oil content of compressed air | 0 ... 1 mg/m³                     |
| Weight                        | 0,71 kg                           |



## Technical data

| Part No.   |        | Compressed air connection | Compressed air connection |
|------------|--------|---------------------------|---------------------------|
|            |        | Input                     | Output                    |
| 5711100300 | NC, NO | G 1/2                     | G 1/2                     |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Exhaust                   | Pilot control exhaust     |
| 5711100300 | G 1/2                     | G 1/8                     |

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

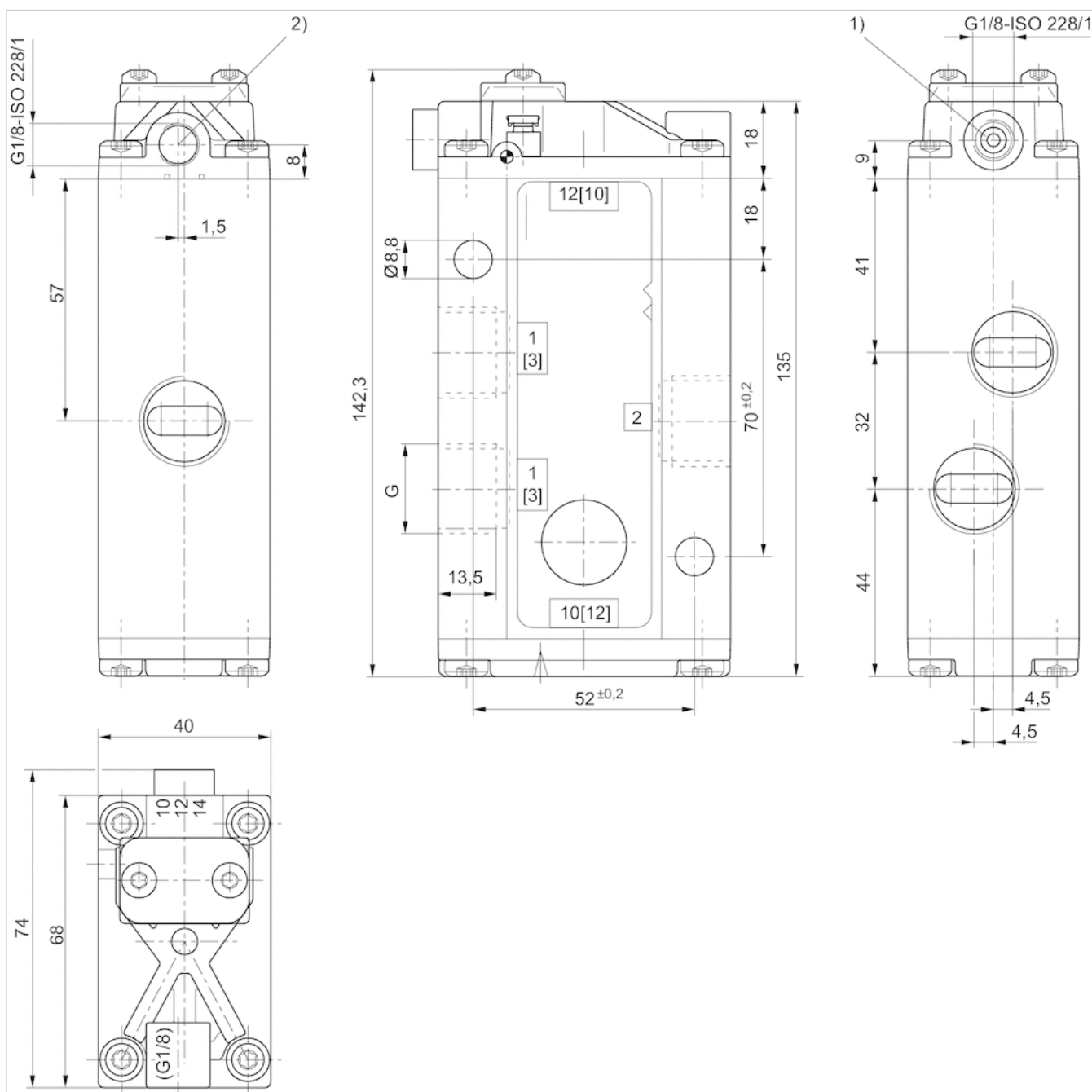
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

## Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

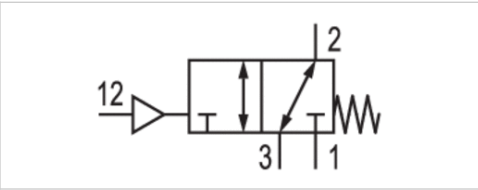
### Dimensions



1) Port 12/102) vent port of piston

# 3/2-directional valve, Series CD12

- Qn = 4000 l/min
- Compressed air connection output M22x1,5
- Single air pilot
- Pipe connection
- suitable for ATEX



|                               |                                   |
|-------------------------------|-----------------------------------|
| Version                       | Spool valve, positive overlapping |
| Activation                    | Pneumatically                     |
| Sealing principle             | Soft sealing                      |
| Flow rate value Qn            | 4000 l/min                        |
| Working pressure min./max.    | -0,95 ... 16 bar                  |
| Control pressure min./max.    | 2 ... 10 bar                      |
| Ambient temperature min./max. | -25 ... 70 °C                     |
| Medium temperature min./max.  | -25 ... 70 °C                     |
| Medium                        | Compressed air                    |
| Max. particle size            | 50 µm                             |
| Oil content of compressed air | 0 ... 1 mg/m³                     |
| Weight                        | 0,71 kg                           |

## Technical data

| Part No.   |        | Compressed air connection | Compressed air connection |
|------------|--------|---------------------------|---------------------------|
|            |        | Input                     | Output                    |
| 5711100200 | NC, NO | M22x1,5                   | M22x1,5                   |

| Part No.   | Compressed air connection | Compressed air connection |
|------------|---------------------------|---------------------------|
|            | Exhaust                   | Pilot control exhaust     |
| 5711100200 | M22x1,5                   | G 1/8                     |

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

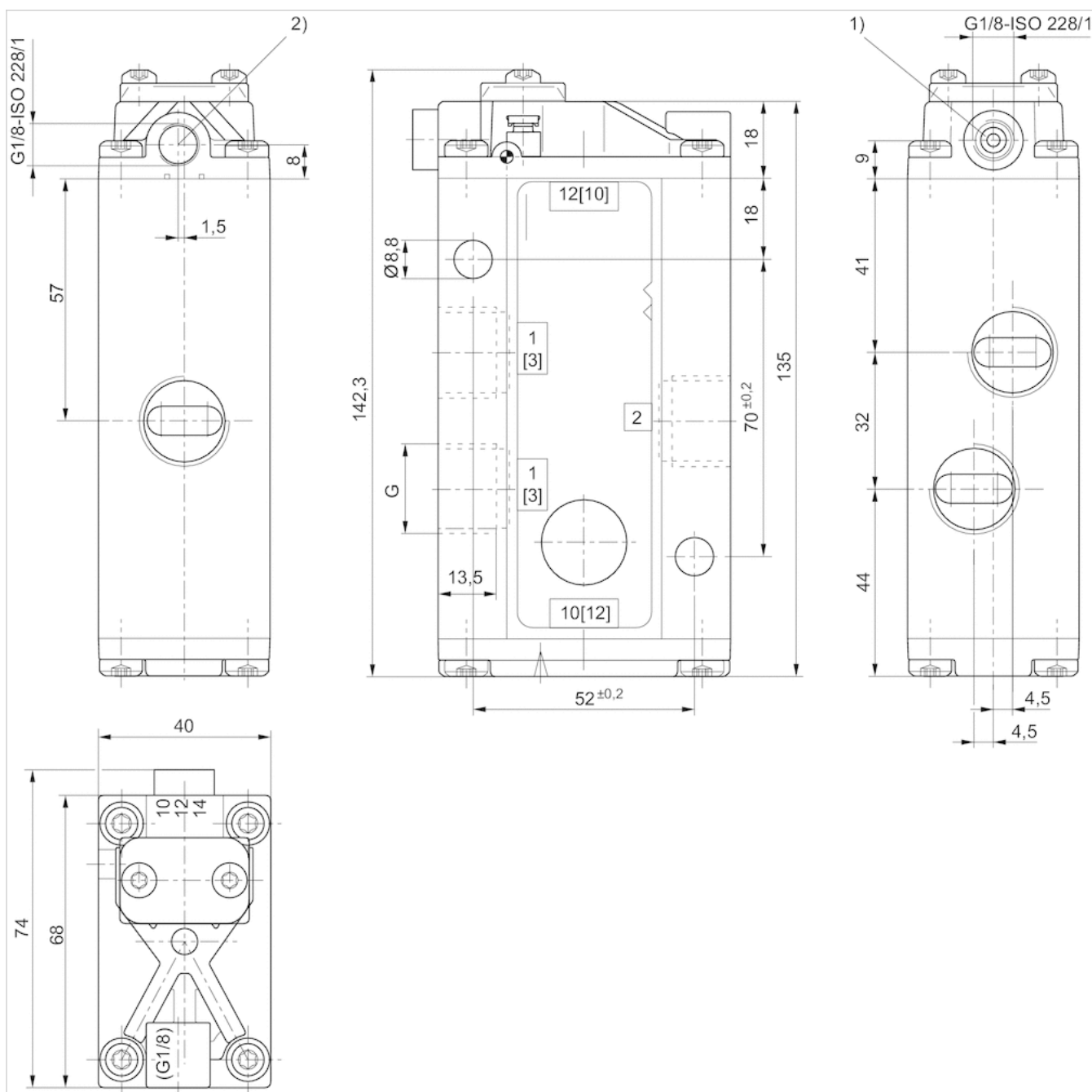
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

## Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

### Dimensions



1) Port 12/102) vent port of piston

## 5/2-directional valve, Series CD12

- Qn = 4100 l/min
- Qn 1→2 = 4100 l/min
- Compressed air connection output G 1/2
- Pipe connection
- suitable for ATEX



|                               |                                   |
|-------------------------------|-----------------------------------|
| Version                       | Spool valve, positive overlapping |
| Activation                    | Pneumatically                     |
| Sealing principle             | Soft sealing                      |
| Flow rate value Qn            | 4100 l/min                        |
| Working pressure min./max.    | -0,95 ... 16 bar                  |
| Control pressure min./max.    | 2 ... 10 bar                      |
| Ambient temperature min./max. | See table below                   |
| Medium temperature min./max.  | See table below                   |
| Medium                        | Compressed air                    |
| Max. particle size            | 50 µm                             |
| Oil content of compressed air | 0 ... 1 mg/m³                     |
| Weight                        | 0,86 kg                           |

### Technical data

| Part No.   |                                                                                     | Compressed air connection |        |
|------------|-------------------------------------------------------------------------------------|---------------------------|--------|
|            |                                                                                     | Input                     | Output |
| 5711000100 |  | G 1/2                     | G 1/2  |
| 5711000300 |  | G 1/2                     | G 1/2  |
| 5711001100 |  | G 1/2                     | G 1/2  |

| Part No.   | Compressed air connection |                       | Flow<br>Qn 1→2 |
|------------|---------------------------|-----------------------|----------------|
|            | Exhaust                   | Pilot control exhaust |                |
| 5711000100 | G 1/2                     | G 1/8                 | -              |
| 5711000300 | G 1/2                     | G 1/8                 | -              |
| 5711001100 | G 1/2                     | G 1/8                 | 4100 l/min     |

| Part No.   | Ambient temperature min./max. | Medium temperature min./max. | Fig.   |
|------------|-------------------------------|------------------------------|--------|
| 5711000100 | -25 ... 70 °C                 | -25 ... 70 °C                | Fig. 2 |
| 5711000300 | -15 ... 70 °C                 | -15 ... 70 °C                | Fig. 1 |
| 5711001100 | -25 ... 70 °C                 | -25 ... 70 °C                | Fig. 2 |

Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

### Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

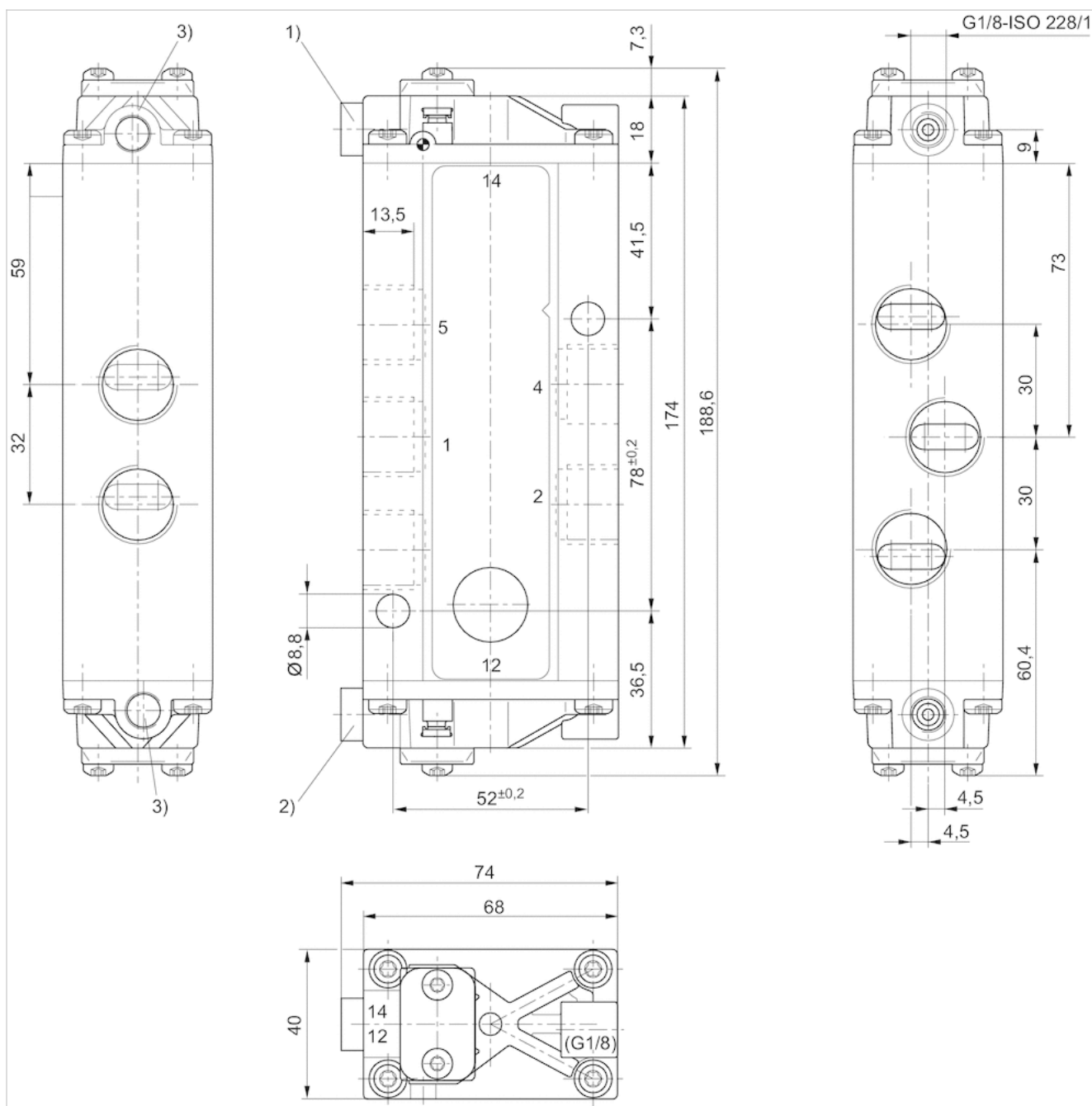
The oil content of compressed air must remain constant during the life cycle.

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

## Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

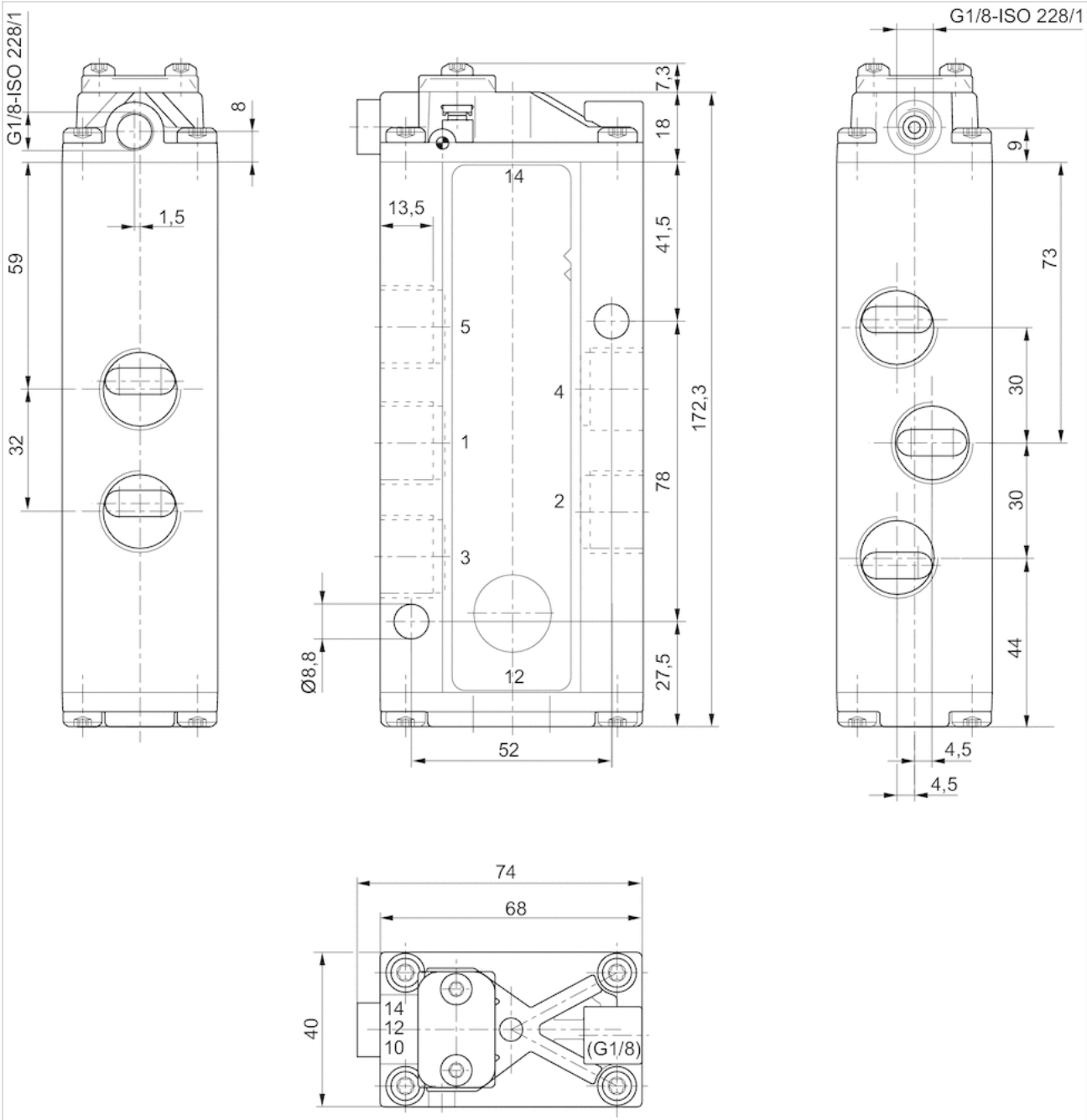
Fig. 2 double air pilot



1) Port 14 2) Port 12 3) Port without function

Dimensions

Fig. 1 Single air pilot



1) Port 142) Vent port of piston

## 5/2-directional valve, Series CD12

- $Q_n = 4100 \text{ l/min}$
- Compressed air connection output M22x1,5
- Pipe connection
- suitable for ATEX



|                               |                                   |
|-------------------------------|-----------------------------------|
| Version                       | Spool valve, positive overlapping |
| Activation                    | Pneumatically                     |
| Sealing principle             | Soft sealing                      |
| Flow rate value $Q_n$         | 4100 l/min                        |
| Working pressure min./max.    | -0,95 ... 16 bar                  |
| Control pressure min./max.    | 2 ... 10 bar                      |
| Ambient temperature min./max. | See table below                   |
| Medium temperature min./max.  | See table below                   |
| Medium                        | Compressed air                    |
| Max. particle size            | 50 $\mu\text{m}$                  |
| Oil content of compressed air | 0 ... 1 mg/m <sup>3</sup>         |
| Weight                        | 0,86 kg                           |

### Technical data

| Part No.   |                                                                                     | Compressed air connection |         |
|------------|-------------------------------------------------------------------------------------|---------------------------|---------|
|            |                                                                                     | Input                     | Output  |
| 5711000000 |  | M22x1,5                   | M22x1,5 |
| R412013343 |  | M22x1,5                   | M22x1,5 |
| R412013344 |  | M22x1,5                   | M22x1,5 |

| Part No.   | Compressed air connection |                       |
|------------|---------------------------|-----------------------|
|            | Exhaust                   | Pilot control exhaust |
| 5711000000 | M22x1,5                   | G 1/8                 |
| R412013343 | M22x1,5                   | G 1/8                 |
| R412013344 | M22x1,5                   | G 1/8                 |

| Part No.   | Ambient temperature min./max. | Medium temperature min./max. | Fig.   |
|------------|-------------------------------|------------------------------|--------|
| 5711000000 | -25 ... 70 °C                 | -25 ... 70 °C                | Fig. 2 |
| R412013343 | -15 ... 70 °C                 | -15 ... 70 °C                | Fig. 1 |
| R412013344 | -25 ... 70 °C                 | -25 ... 70 °C                | Fig. 2 |

Nominal flow  $Q_n$  at 6 bar and  $\Delta p = 1 \text{ bar}$

### Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

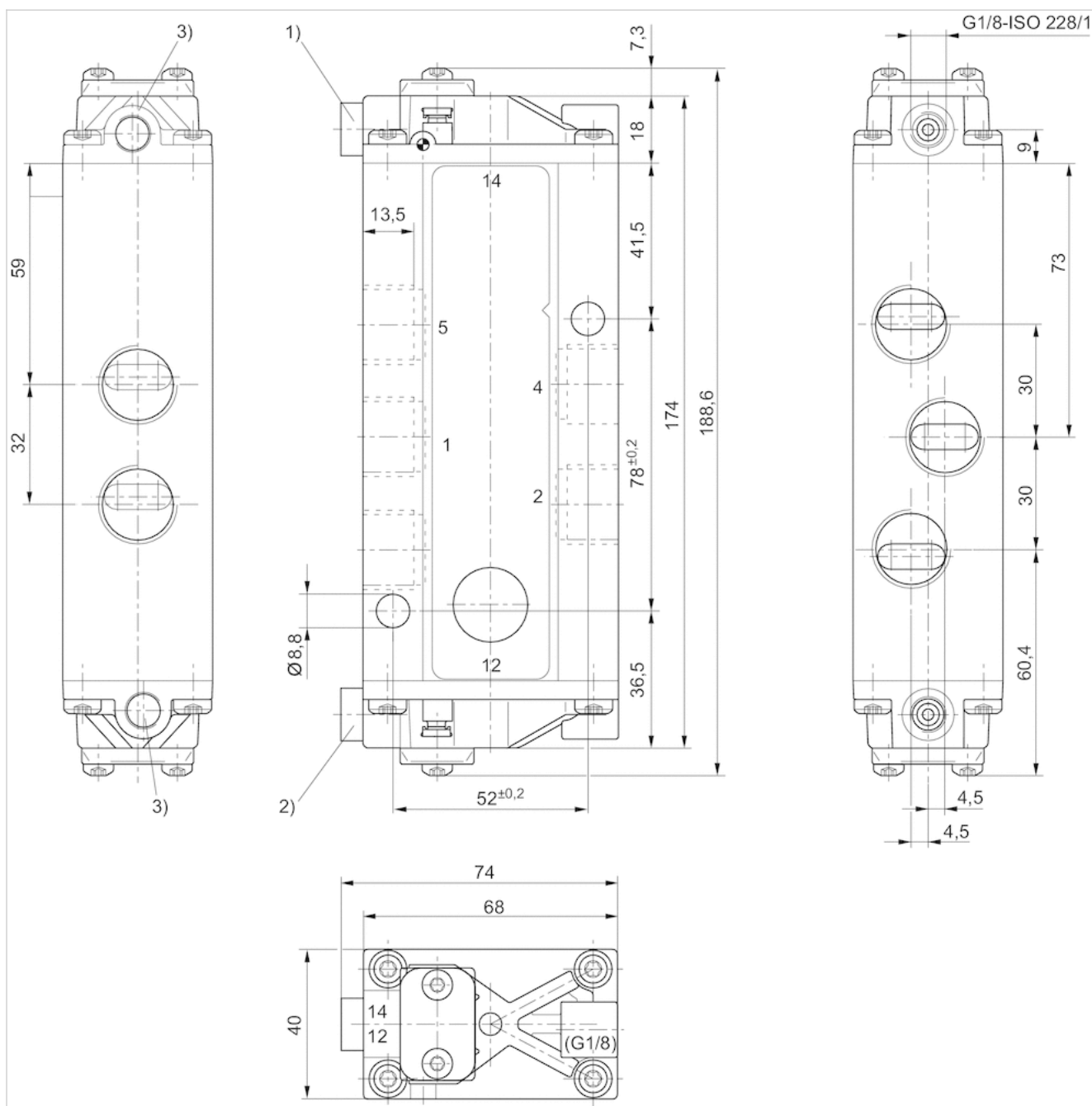
The oil content of compressed air must remain constant during the life cycle.

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

## Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

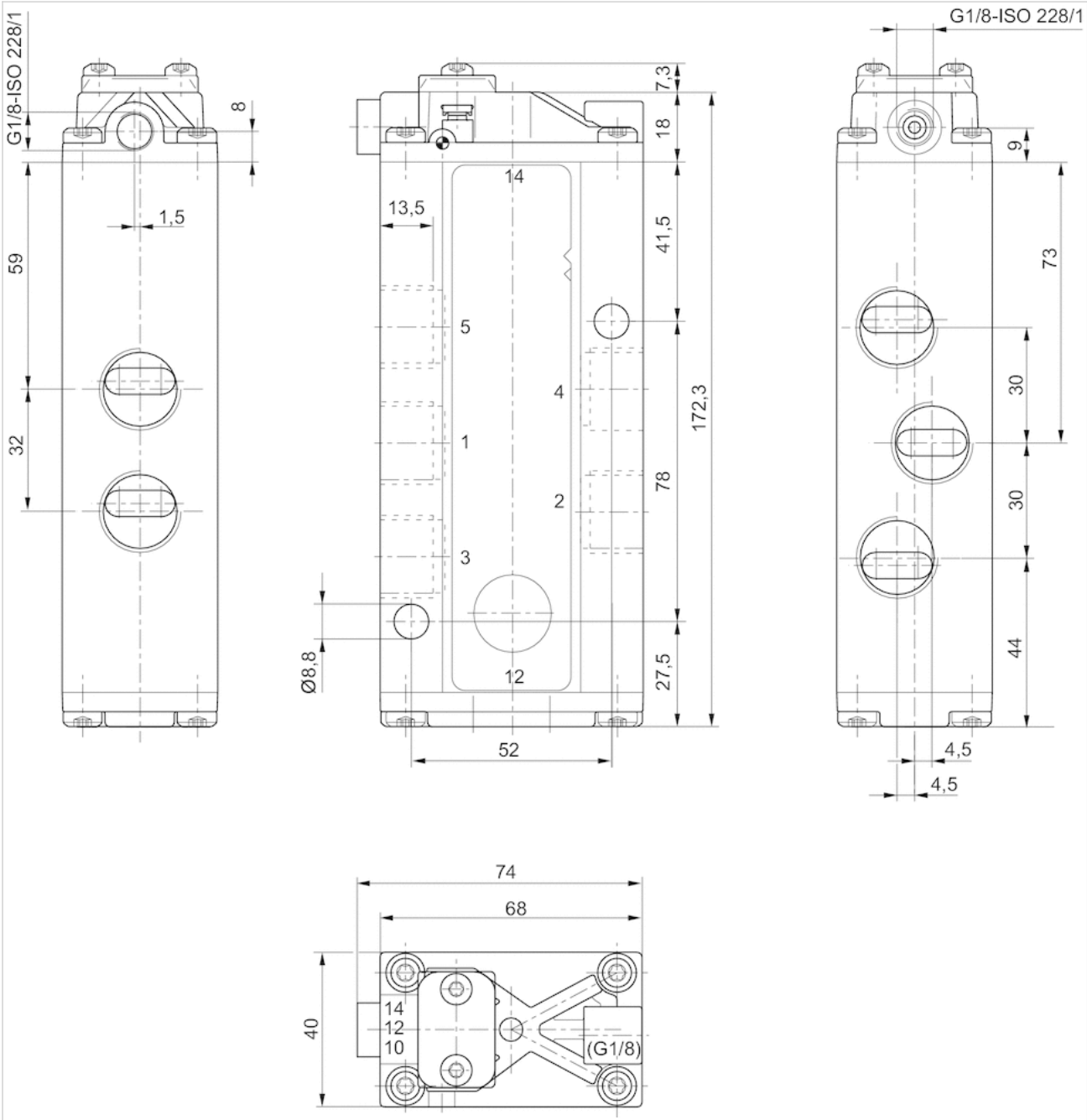
Fig. 2 double air pilot



1) Port 142) Port 123) Port without function

Dimensions

Fig. 1 Single air pilot



1) Port 142) Vent port of piston

## 5/3-directional valve, Series CD12

- Qn 1►2 = 3600-4100 l/min
- Qn 2►3 = 3800-4100 l/min
- Compressed air connection output G 1/2
- Pipe connection
- suitable for ATEX



|                               |                                   |
|-------------------------------|-----------------------------------|
| Version                       | Spool valve, positive overlapping |
| Activation                    | Pneumatically                     |
| Sealing principle             | Soft sealing                      |
| Compressed air connection     | according to ISO 228-1            |
| Working pressure min./max.    | -0,95 ... 16 bar                  |
| Control pressure min./max.    | 3 ... 10 bar                      |
| Ambient temperature min./max. | -25 ... 70 °C                     |
| Medium temperature min./max.  | -25 ... 70 °C                     |
| Medium                        | Compressed air                    |
| Max. particle size            | 50 µm                             |
| Oil content of compressed air | 0 ... 1 mg/m³                     |
| Weight                        | 0,95 kg                           |

### Technical data

| Part No.   |                                                                                     |               | Compressed air connection |        |
|------------|-------------------------------------------------------------------------------------|---------------|---------------------------|--------|
|            |                                                                                     |               | Input                     | Output |
| 5711200050 |  | closed center | G 1/2                     | G 1/2  |
| 5711200060 |  | -             | G 1/2                     | G 1/2  |
| R414002380 |  | -             | G 1/2                     | G 1/2  |

| Part No.   | Compressed air connection |  | Compressed air connection | Flow       | Flow       |
|------------|---------------------------|--|---------------------------|------------|------------|
|            | Exhaust                   |  | Pilot control exhaust     | Qn 1►2     | Qn 2►3     |
| 5711200050 | G 1/2                     |  | G 1/8                     | 3800 l/min | 3800 l/min |
| 5711200060 | G 1/2                     |  | G 1/8                     | 3600 l/min | 4100 l/min |
| R414002380 | G 1/2                     |  | G 1/8                     | 4100 l/min | 3800 l/min |

Nominal flow Qn at 6 bar and  $\Delta p = 1$  bar

### Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

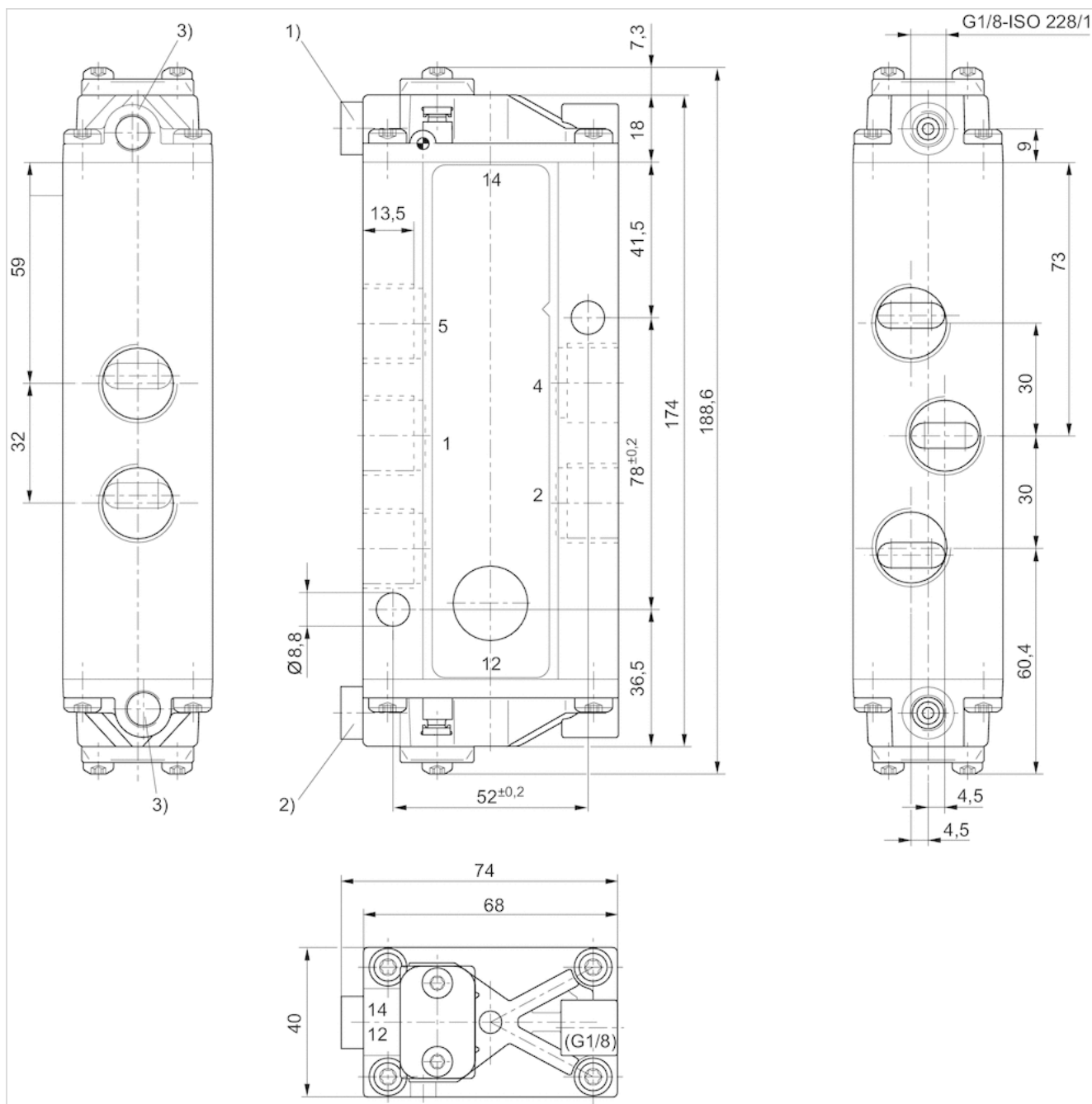
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

### Technical information

| Material |                                              |
|----------|----------------------------------------------|
| Housing  | Aluminum, Polyamide, fiber-glass reinforced  |
| Seals    | Acrylonitrile butadiene rubber, Polyurethane |

## Dimensions

Fig. 2 double air pilot



1) Port 142) Port 123) Port without function

# Valve plug connector, series CON-VP

- Socket, form A, 2+E, angled, 90°
- EN 175301-803
- unshielded
- with LED Yellow, Red



|                                  |                 |
|----------------------------------|-----------------|
| Connection type                  | Screws          |
| Ambient temperature min./max.    | -40 ... 90 °C   |
| Operationalvoltage               | See table below |
| Protection class                 | IP65            |
| Mounting screw tightening torque | 0,4 Nm          |
| Weight                           | See table below |

## Technical data

| Part No.   |                                                                                     | Operationalvoltage | Protective circuit | Contact assignment | LED status display |
|------------|-------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| 1834484101 |  | 24 V, AC/DC        | Z-diode            | 2+E                | Yellow             |
| 1834484102 |  | 110 V, AC          | Varistor           | 2+E                | Red                |
| 1834484103 |  | 230 V, AC          | Varistor           | 2+E                | Red                |

| Part No.   | suitable cable-Ø min./max | Seal                            | Weight   |    |
|------------|---------------------------|---------------------------------|----------|----|
| 1834484101 | 6 / 8 mm                  | Silicone caoutchouc             | 0,03 kg  | 1) |
| 1834484102 | 6 / 8 mm                  | caoutchouc/butadiene caoutchouc | 0,03 kg  | 2) |
| 1834484103 | 6 / 8 mm                  | Silicone caoutchouc             | 0,025 kg | 2) |

1) Flat gasket

2) Profile seal

## Technical information

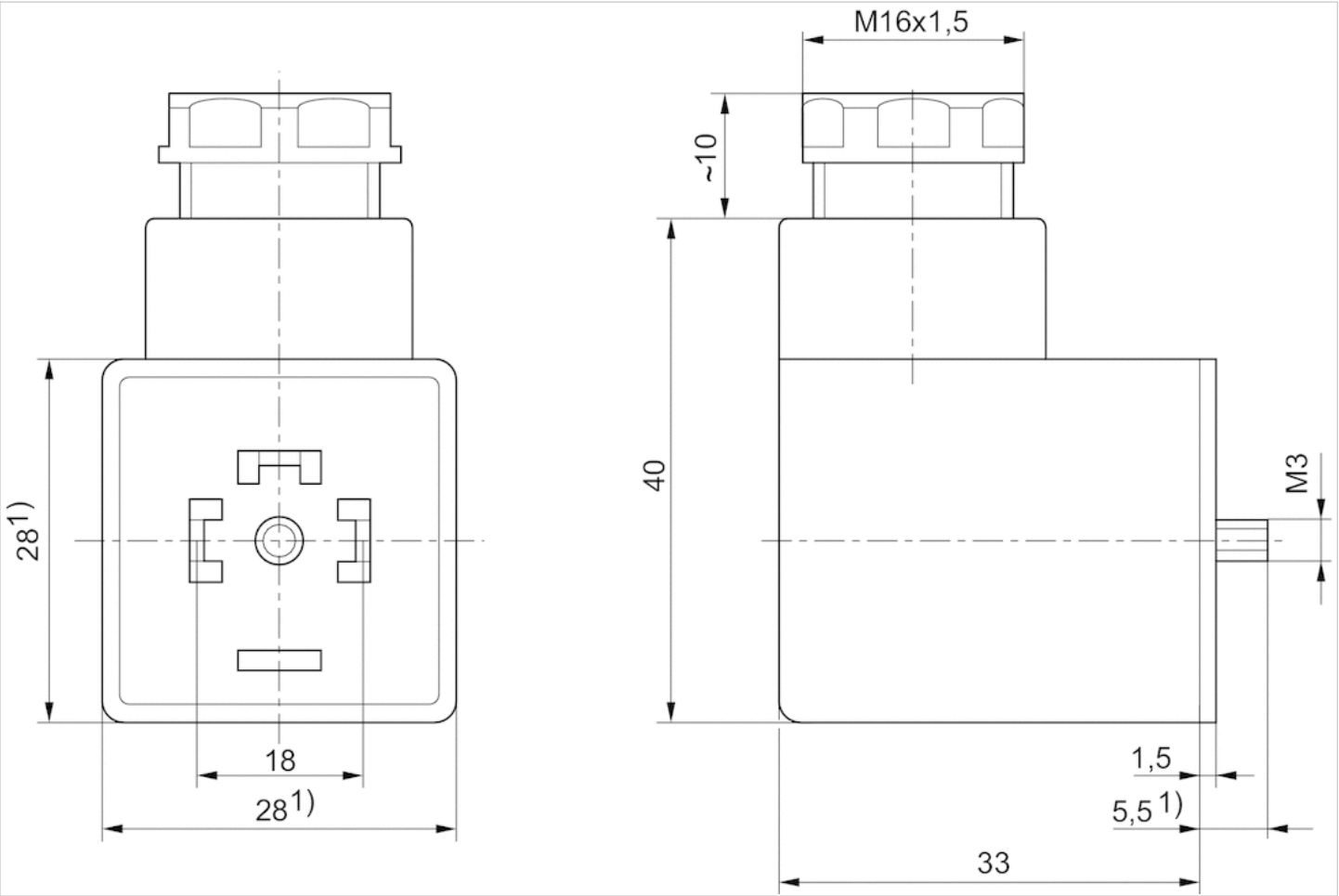
The specified protection class is only valid in assembled and tested state.

## Technical information

| Material |                                                      |
|----------|------------------------------------------------------|
| Seals    | Silicone caoutchouc, caoutchouc/butadiene caoutchouc |

Dimensions

Dimensions



1) Max.

# Valve plug connector, series CON-VP

- Socket, form A, 2+E, angled, 90°, Socket, form A, 3+E, angled, 90°
- EN 175301-803
- unshielded



|                                  |               |
|----------------------------------|---------------|
| Connection type                  | Screws        |
| Ambient temperature min./max.    | -40 ... 90 °C |
| Operationalvoltage               | 300 V, DC     |
| Protection class                 | IP65          |
| Mounting screw tightening torque | 0,4 Nm        |
| Weight                           | 0,03 kg       |

## Technical data

| Part No.   |                                                                                     | Electrical connection            | Max. current | Contact assignment |
|------------|-------------------------------------------------------------------------------------|----------------------------------|--------------|--------------------|
|            |                                                                                     | 1                                |              |                    |
| 1834484048 |  | Socket, form A, 2+E, angled, 90° | 10 A         | 2+E                |
| 1834484059 |  | Socket, form A, 3+E, angled, 90° | 10 A         | 3+E                |

| Part No.   | suitable cable-Ø min./max |
|------------|---------------------------|
| 1834484048 | 6 / 8 mm                  |
| 1834484059 | 6 / 8 mm                  |

Profile seal

## Technical information

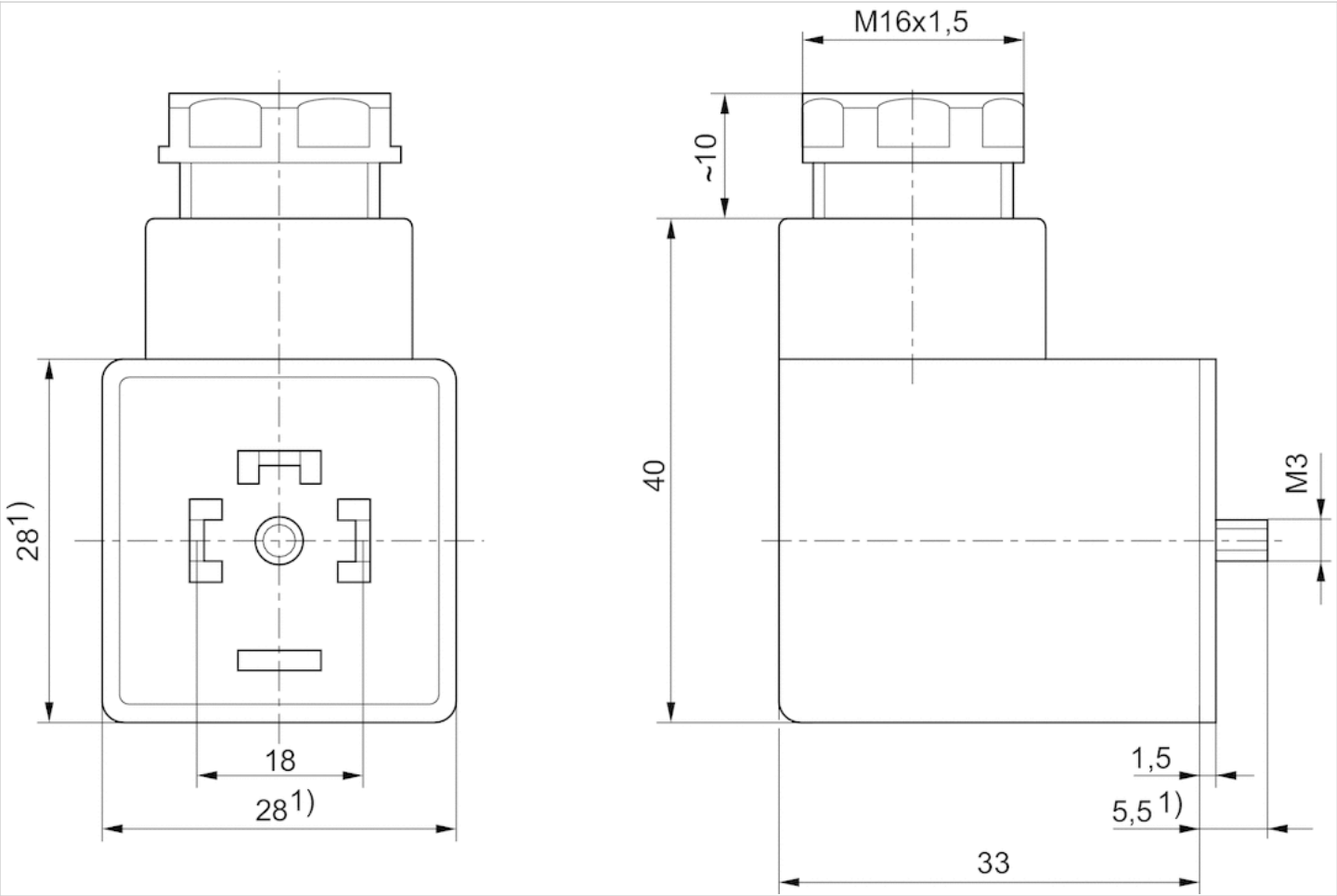
The specified protection class is only valid in assembled and tested state.

## Technical information

| Material |                                 |
|----------|---------------------------------|
| Seals    | caoutchouc/butadiene caoutchouc |

Dimensions

Dimensions



1) Max.

# Valve plug connector, series CON-VP

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



|                                  |                 |
|----------------------------------|-----------------|
| Ambient temperature min./max.    | -20 ... 80 °C   |
| Operationalvoltage               | See table below |
| Protection class                 | IP67            |
| Wire cross-section               | 0,75 mm²        |
| Mounting screw tightening torque | 0,4 Nm          |
| Weight                           | See table below |

## Technical data

| Part No.   |                                                                                     | Operationalvoltage | Protective circuit | Contact assignment | LED status display |
|------------|-------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|
| 1834484160 |  | 230 V, AC/DC       | -                  | 2+E                | -                  |
| 1834484162 |  | 24 V, AC/DC        | Z-diode            | 2+E                | Yellow             |
| 1834484163 |  | 24 V, AC/DC        | Z-diode            | 2+E                | Yellow             |
| 1834484164 |  | 230 V, AC/DC       | Varistor           | 2+E                | Red                |
| 1834484165 |  | 230 V, AC/DC       | Varistor           | 2+E                | Red                |

| Part No.   | Number of wires | Cable-Ø | Cable length | Weight  | Fig.   |    |
|------------|-----------------|---------|--------------|---------|--------|----|
| 1834484160 | 3               | 5,9 mm  | 3 m          | 0,2 kg  | Fig. 1 | 1) |
| 1834484162 | 3               | 5,9 mm  | 3 m          | 0,2 kg  | Fig. 2 | -  |
| 1834484163 | 3               | 5,9 mm  | 5 m          | 0,31 kg | Fig. 2 | -  |
| 1834484164 | 3               | 5,9 mm  | 3 m          | 0,2 kg  | Fig. 2 | -  |
| 1834484165 | 3               | 5,9 mm  | 5 m          | 0,31 kg | Fig. 2 | -  |

1) Scope of delivery incl. flat gasket

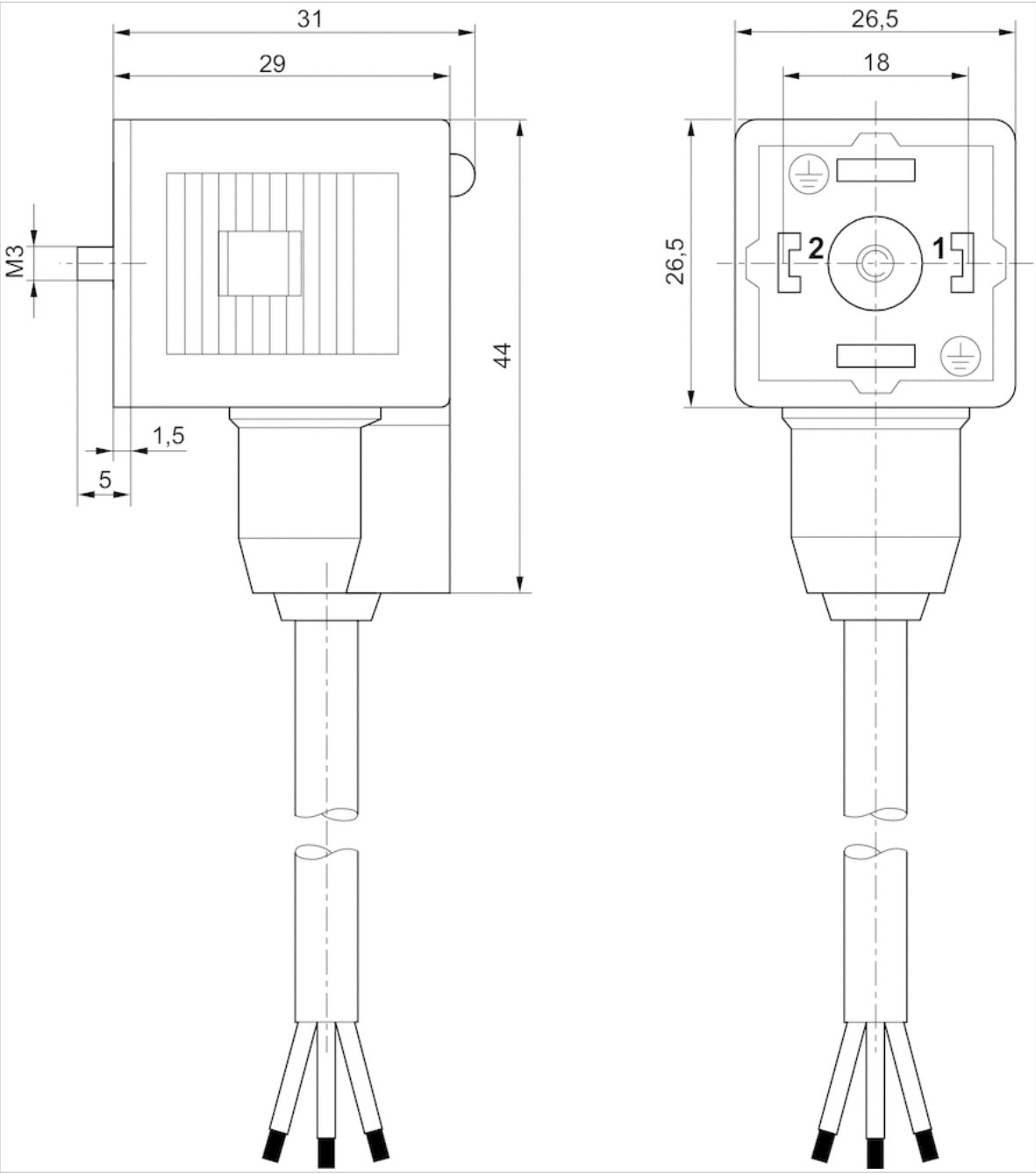
## Technical information

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

## Technical information

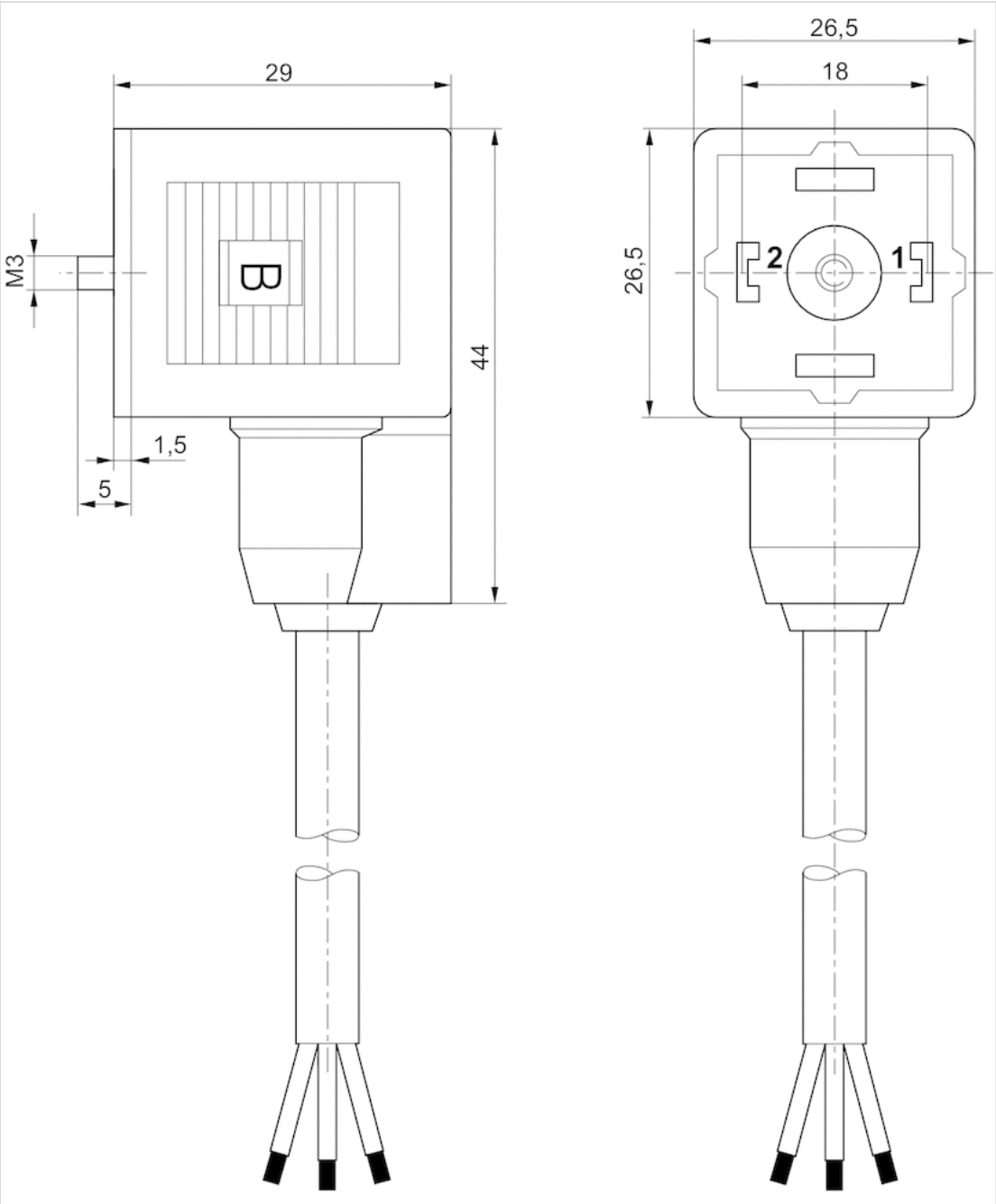
| Material     |                                 |
|--------------|---------------------------------|
| Seals        | caoutchouc/butadiene caoutchouc |
| Cable sheath | Polyvinyl chloride              |

Fig. 2



Dimensions

Fig. 1



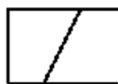
# Coil, Series CO1

- form A
- Coil width 30 mm
- Power consumption,DC 2.7 W
- Holding power,AC 4.8-5.6 VA



Connector standard  
electrical connections  
Ambient temperature min./max.  
Protection class,With valve plug  
connector/plug  
Duty cycle ED  
Compatibility index  
Weight

EN 175301-803, form A  
Plug, 3-pin  
50 °C  
IP65  
100 %  
14  
0,096 kg



## Technical data

| Part No.   | Operationalvoltage | Operationalvoltage | Operationalvoltage | Voltage tolerance |
|------------|--------------------|--------------------|--------------------|-------------------|
|            | DC                 | AC 50 Hz           | AC 60 Hz           | DC                |
| 5420897022 | 24 V               | -                  | -                  | -10% / +10%       |
| 5428117022 | -                  | 24 V               | 24 V               | -                 |
| 5428117072 | -                  | 110 V              | 110 V              | -                 |
| 5428117082 | -                  | 230 V              | 230 V              | -                 |

| Part No.   | Voltage tolerance | Voltage tolerance | Power consumption | Holding power |
|------------|-------------------|-------------------|-------------------|---------------|
|            | AC 50 Hz          | AC 60 Hz          | DC                | AC 50 Hz      |
| 5420897022 | -                 | -                 | 2,7 W             | -             |
| 5428117022 | -20% / +10%       | -10% / +20%       | -                 | 5,2 VA        |
| 5428117072 | -20% / +10%       | -10% / +20%       | -                 | 4,8 VA        |
| 5428117082 | -20% / +10%       | -10% / +20%       | -                 | 5,6 VA        |

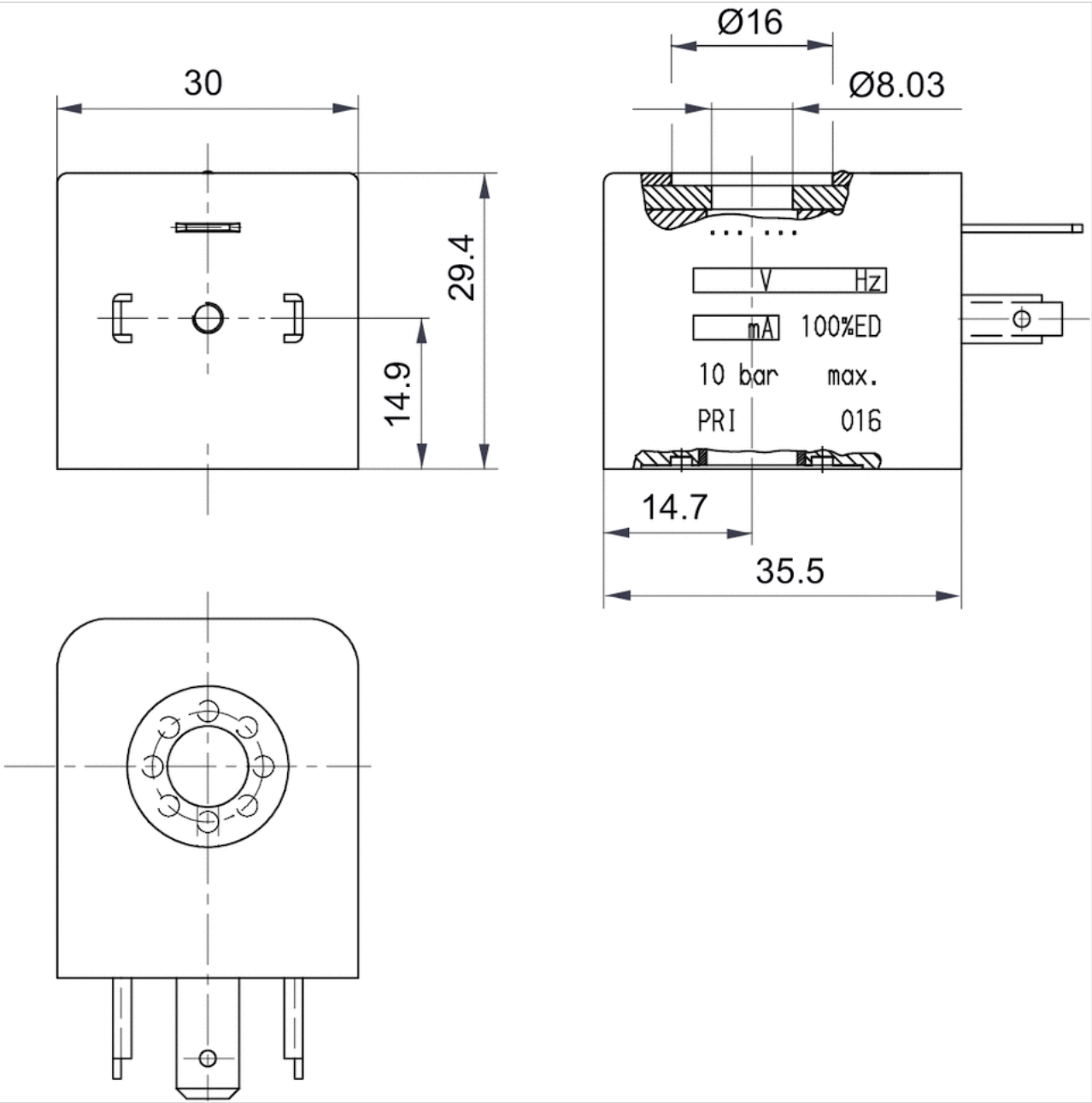
| Part No.   | Holding power |
|------------|---------------|
|            | AC 60 Hz      |
| 5420897022 | -             |
| 5428117022 | 3,9 VA        |
| 5428117072 | 3,6 VA        |
| 5428117082 | 4,2 VA        |

Technical information

|          |                         |
|----------|-------------------------|
| Material |                         |
| Housing  | Thermoplastic elastomer |

Dimensions

Dimensions



## Coil, Series CO1

- Cable with valve plug connector
- Coil width 30 mm
- Power consumption,DC 3.25 W
- Holding power,AC 2.9-3 VA
- Switch-on power,AC 3-3.1 VA
- ATEX



### Certificates

ATEX class G

ATEX class D

Ambient temperature min./max.

Protection class

Duty cycle ED

Compatibility index

Weight

ATEX

II 2G Ex mb IIC T4 Gb

II 2D Ex mb tb IIIC T130°C Db IP65

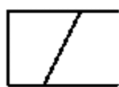
-20 ... 50 °C

IP65

100 %

14

See table below



## Technical data

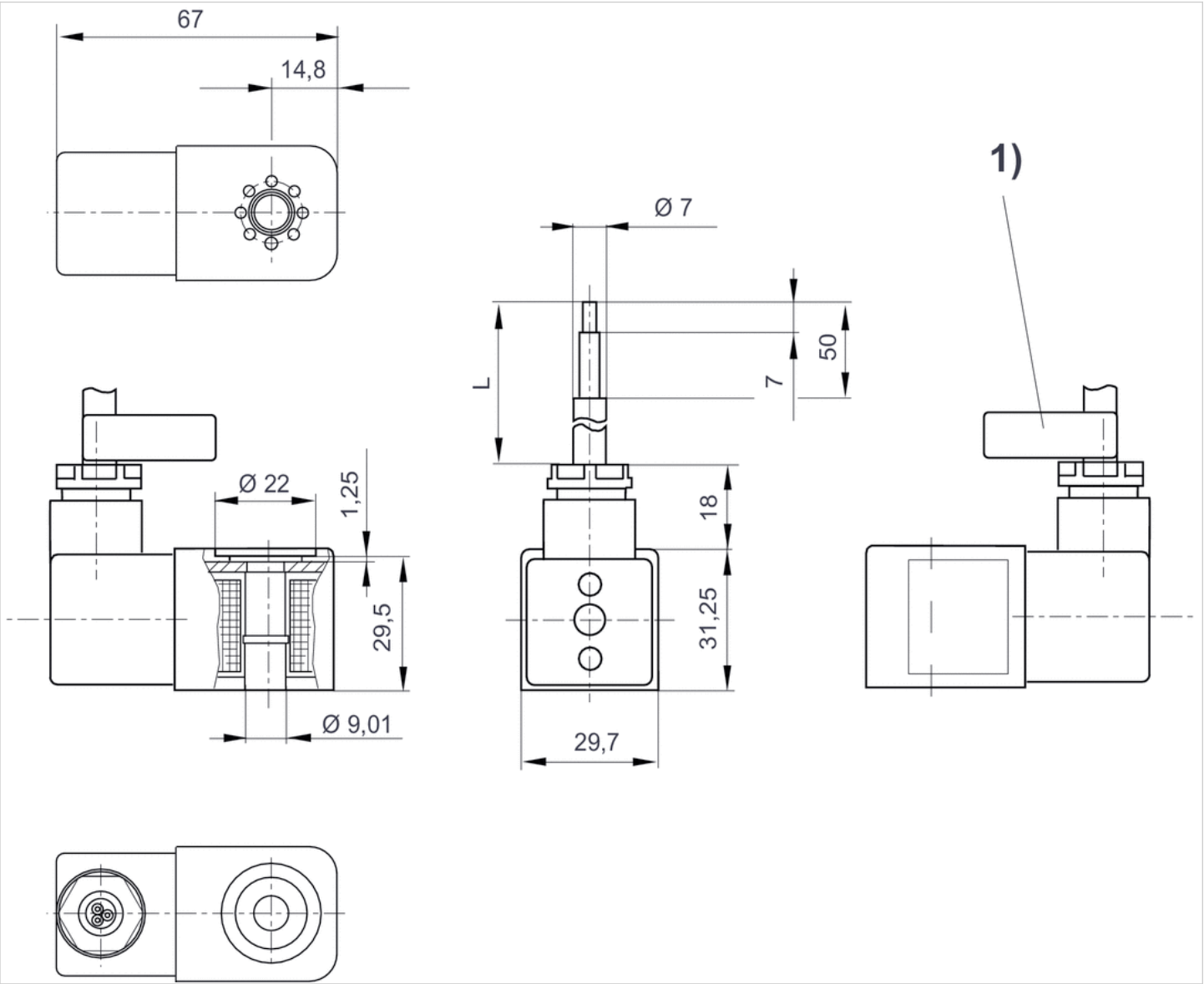
| Part No.   | Operationalvoltage | Operationalvoltage | Operationalvoltage | Voltage tolerance |
|------------|--------------------|--------------------|--------------------|-------------------|
|            | DC                 | AC 50 Hz           | AC 60 Hz           | DC                |
| 1827414297 | -                  | 230 V              | 230 V              | -                 |
| 1827414298 | -                  | 230 V              | 230 V              | -                 |
| 1827414299 | -                  | 110 V              | 110 V              | -                 |
| 1827414301 | -                  | 24 V               | 24 V               | -                 |
| 1827414302 | -                  | 24 V               | 24 V               | -                 |
| 1827414303 | 24 V               | -                  | -                  | -10% / +10%       |
| 1827414304 | 24 V               | -                  | -                  | -10% / +10%       |

| Part No.   | Voltage tolerance | Power consumption | Holding power | Switch-on power |
|------------|-------------------|-------------------|---------------|-----------------|
|            | AC 50 Hz          | DC                | AC 50 Hz      | AC 50 Hz        |
| 1827414297 | -10% / +10%       | -                 | 3 VA          | 3,1 VA          |
| 1827414298 | -10% / +10%       | -                 | 3 VA          | 3,1 VA          |
| 1827414299 | -10% / +10%       | -                 | 2,9 VA        | 3 VA            |
| 1827414301 | -10% / +10%       | -                 | 2,9 VA        | 3 VA            |
| 1827414302 | -10% / +10%       | -                 | 2,9 VA        | 3 VA            |
| 1827414303 | -                 | 3,25 W            | -             | -               |
| 1827414304 | -                 | 3,25 W            | -             | -               |

| Part No.   | Cable length | Weight  |
|------------|--------------|---------|
| 1827414297 | 3 m          | 0,38 kg |
| 1827414298 | 10 m         | 0,91 kg |
| 1827414299 | 3 m          | 0,38 kg |
| 1827414301 | 3 m          | 0,38 kg |
| 1827414302 | 10 m         | 0,91 kg |
| 1827414303 | 3 m          | 0,38 kg |
| 1827414304 | 10 m         | 0,91 kg |

Dimensions

Dimensions



L = cable length  
1) Cable ID band with serial number

# Silencers, series SI1

- Sintered bronze



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

-25 ... 80 °C

Medium

Compressed air

Sound pressure level

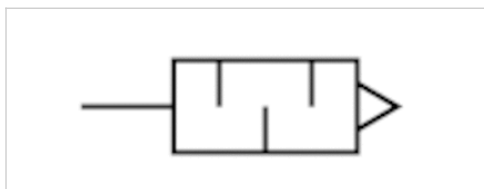
90 dB

Weight

0,08 kg

Comment

Flow characteristic curves can be found under "Diagrams".



## Technical data

| Part No.   | Compressed air connection | Flow       | Delivery unit |
|------------|---------------------------|------------|---------------|
|            |                           | Qn         |               |
| 1827000003 | G 1/2                     | 7223 l/min | 2 piece       |

Weight per piece

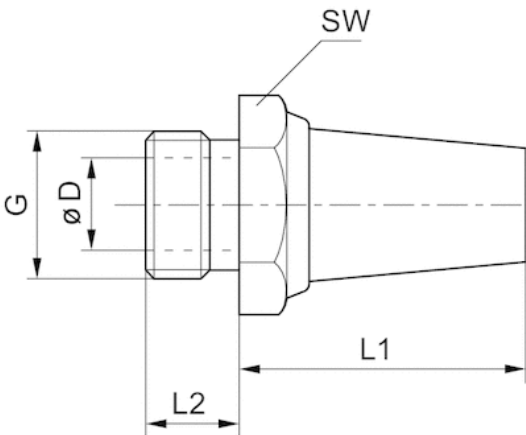
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

| Material  |                 |
|-----------|-----------------|
| Silencers | Sintered bronze |
| Thread    | Brass           |

Dimensions

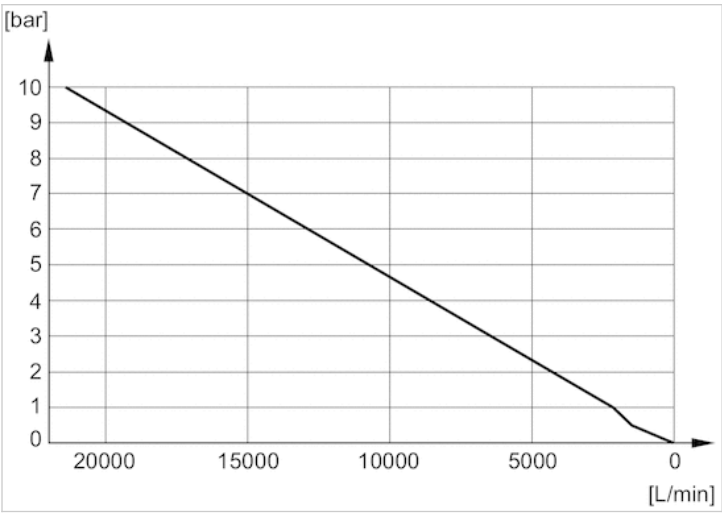
Dimensions



Dimensions

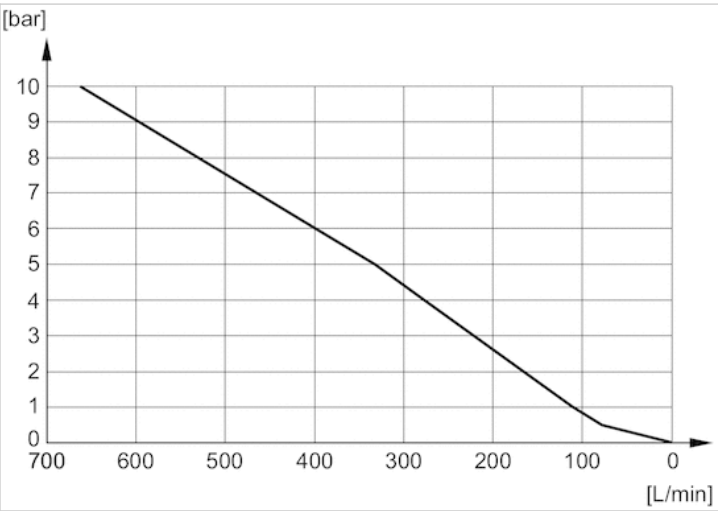
| Part No.   | Port G | SW | Ø D  | L1 | L2 |
|------------|--------|----|------|----|----|
| 1827000003 | G 1/2  | 27 | 14.5 | 44 | 12 |

Flow diagram 1827000005

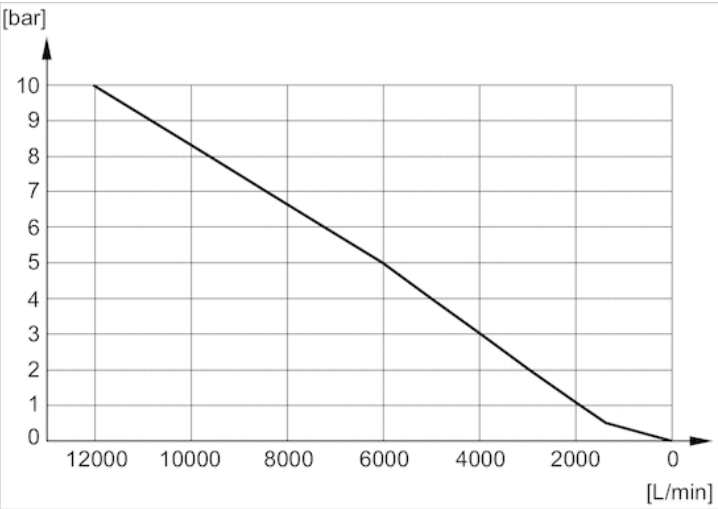


Diagrams

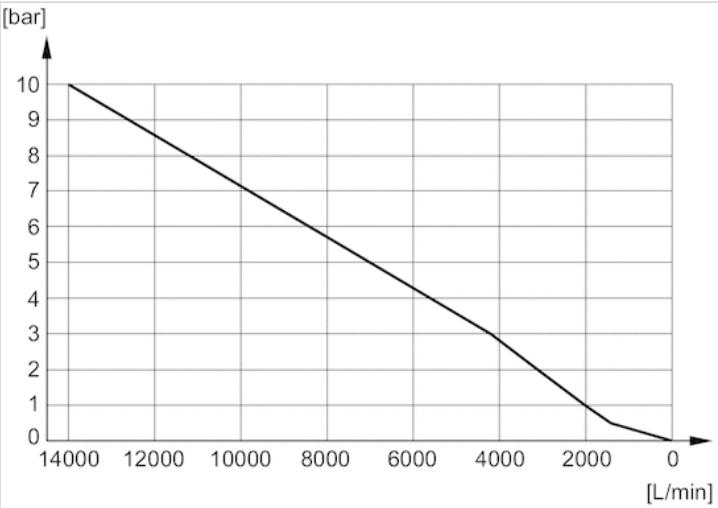
Flow diagram 1827000006



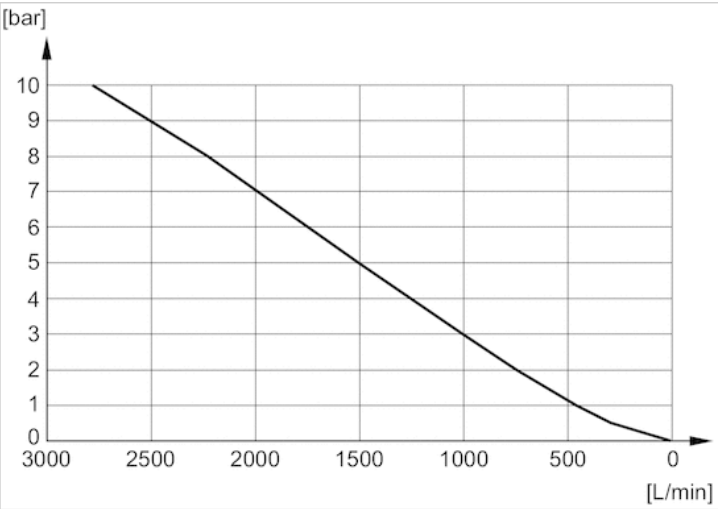
Flow diagram 1827000003



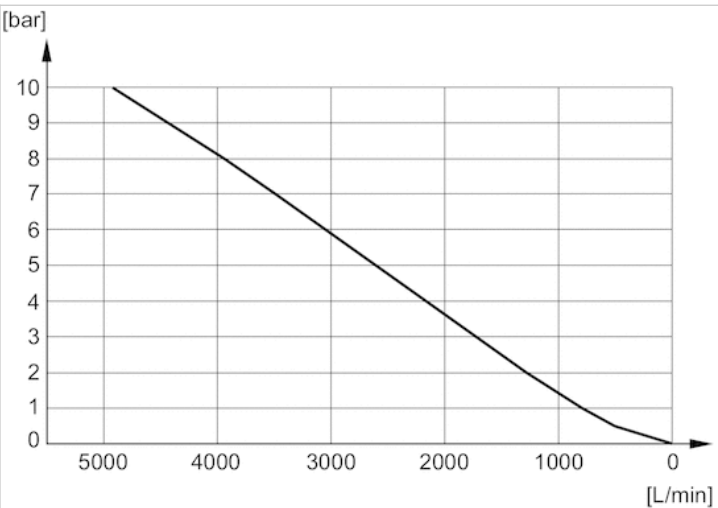
Flow diagram 1827000004



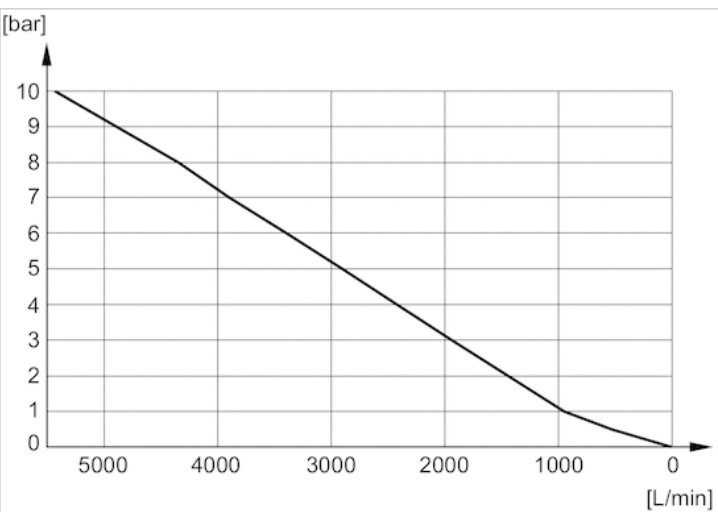
Flow diagram 5324001110



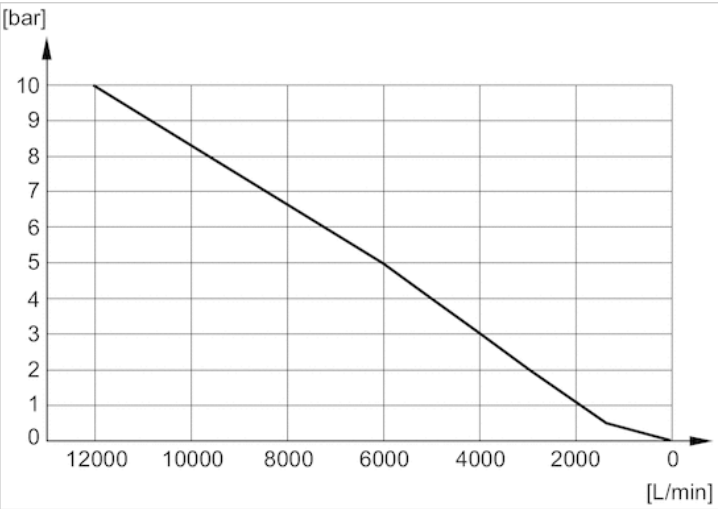
Flow diagram 5324001170



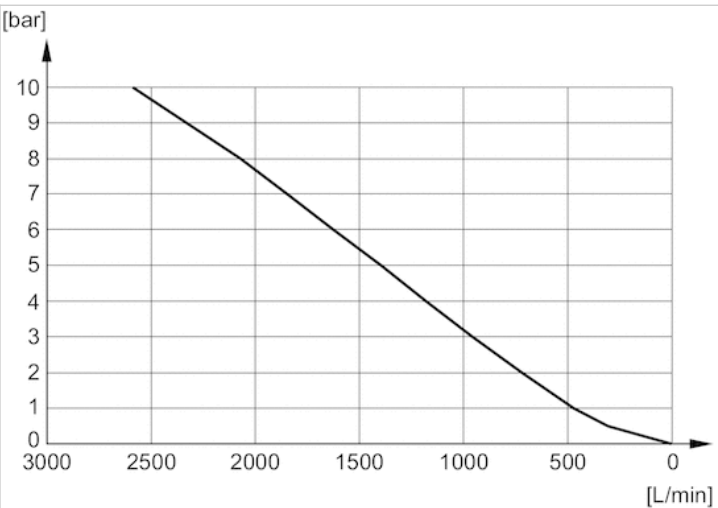
Flow diagram 5324001120



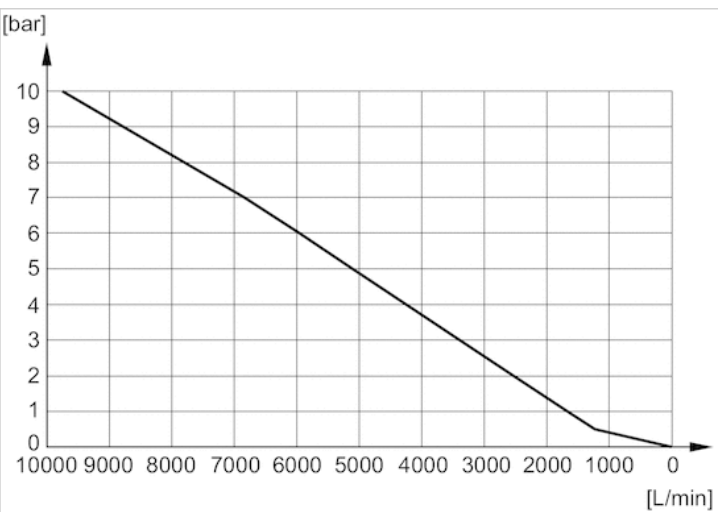
Flow diagram 5324001140



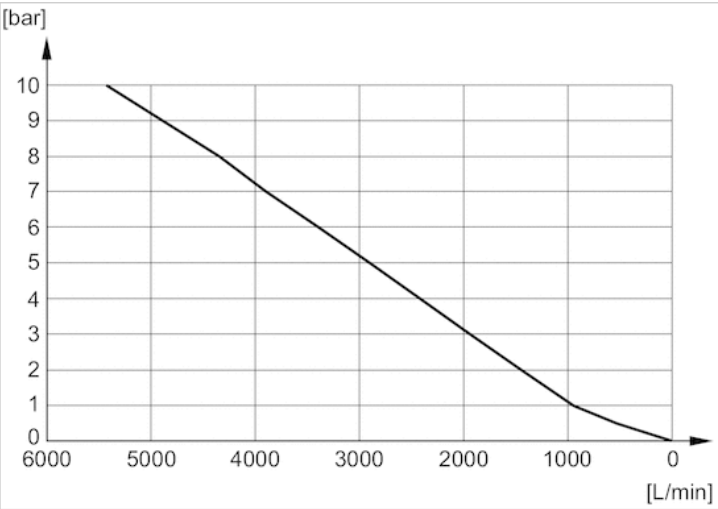
Flow diagram 1827000000



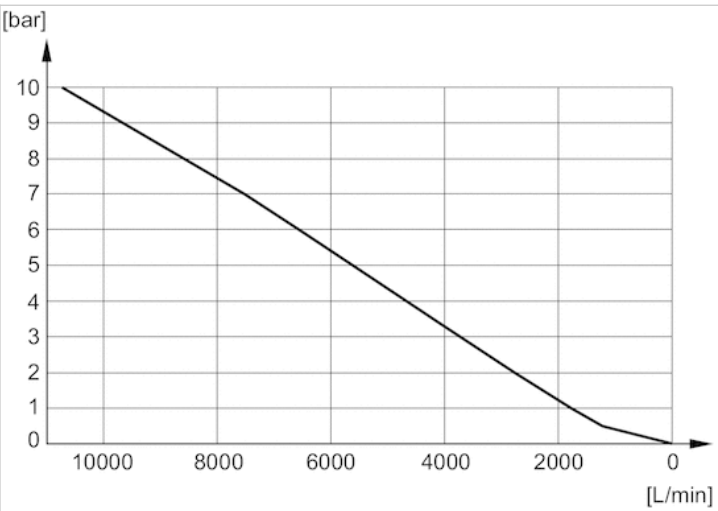
Flow diagram R412004817



Flow diagram 1827000001



Flow diagram 1827000002



# Silencers, series SI1

- Polyethylene



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

-25 ... 80 °C

Medium

Compressed air

Sound pressure level

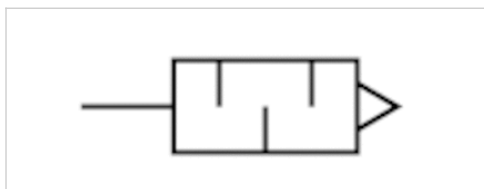
88 dB

Weight

0,013 kg

Comment

Flow characteristic curves can be found under "Diagrams".



## Technical data

| Part No.   | Compressed air connection | Flow       | Delivery unit |
|------------|---------------------------|------------|---------------|
|            |                           | Qn         |               |
| 1827000022 | G 1/2                     | 7142 l/min | 1 piece       |

Weight per piece

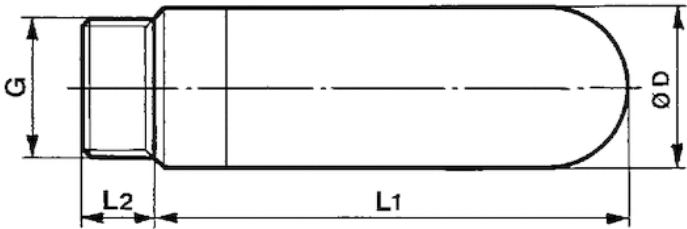
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

| Material  |              |
|-----------|--------------|
| Silencers | Polyethylene |
| Thread    | Polyethylene |

Dimensions

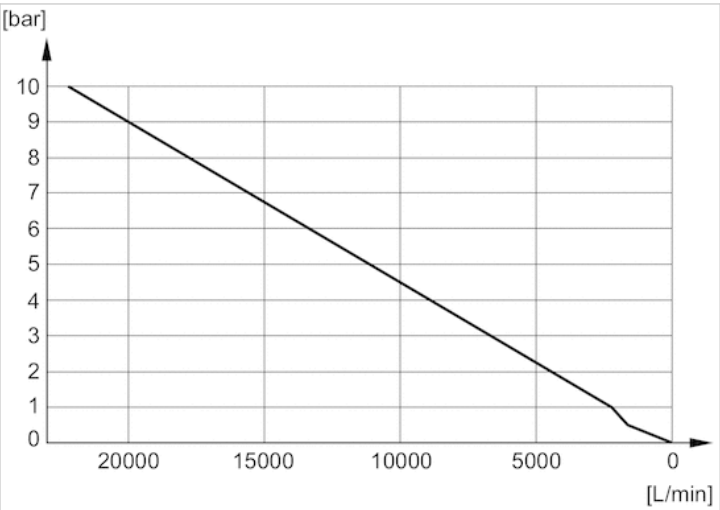
Dimensions



Dimensions

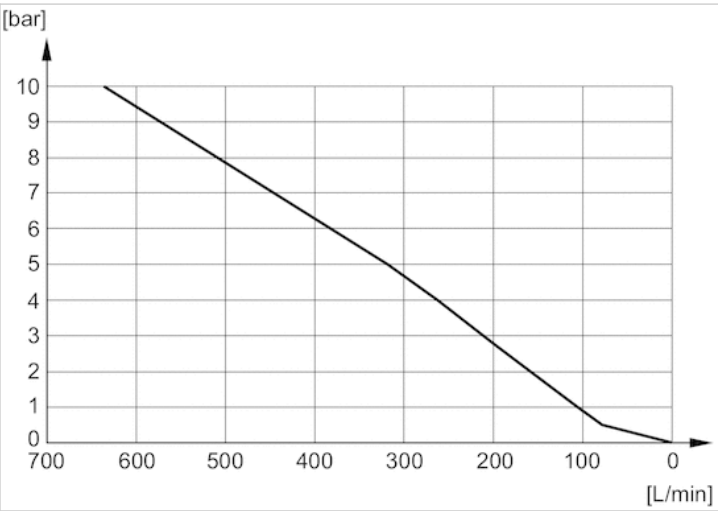
| Part No.   | Port G | Ø D  | L1   | L2 |
|------------|--------|------|------|----|
| 1827000022 | G 1/2  | 23.3 | 66.5 | 11 |

Flow diagram 1827000024

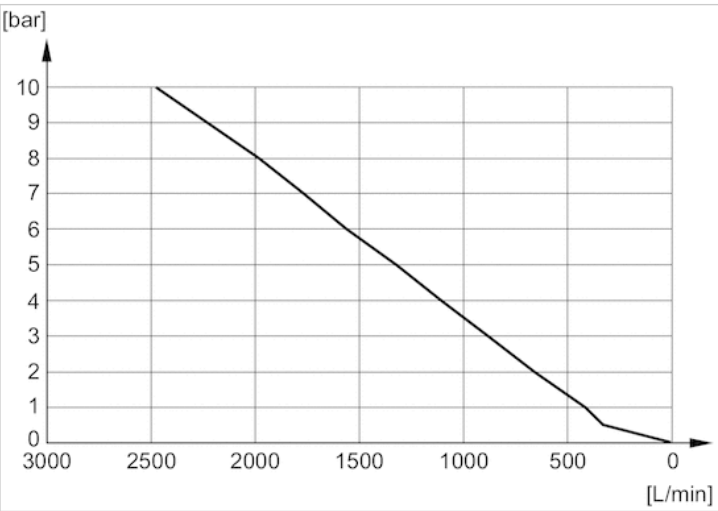


# Diagrams

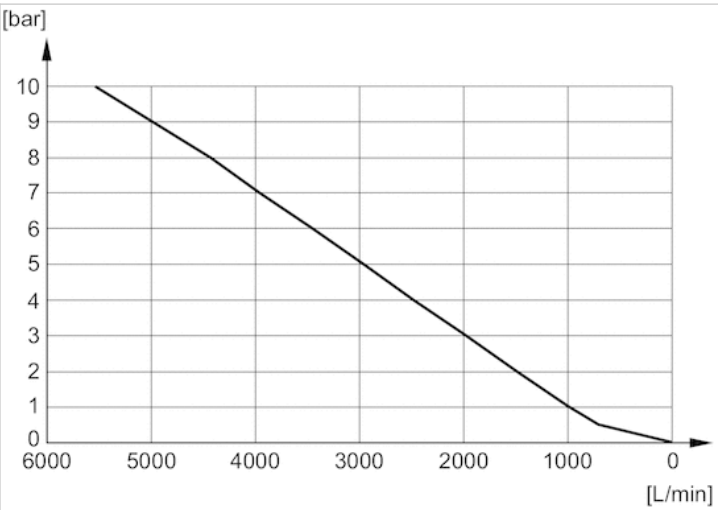
Flow diagram 1827000018



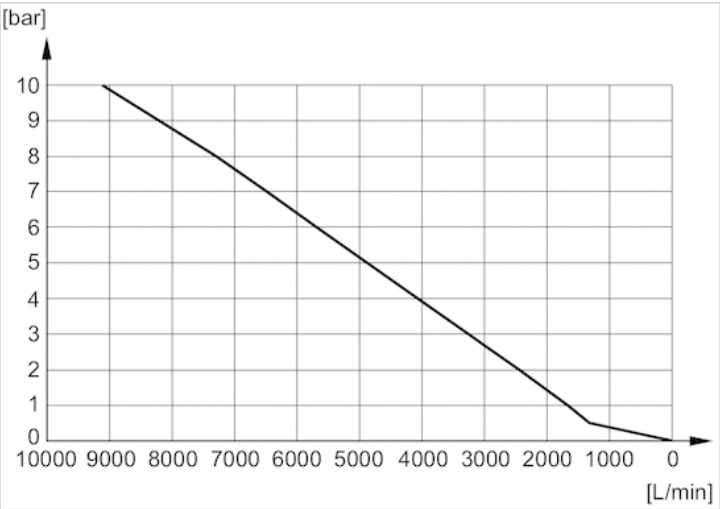
Flow diagram 1827000019



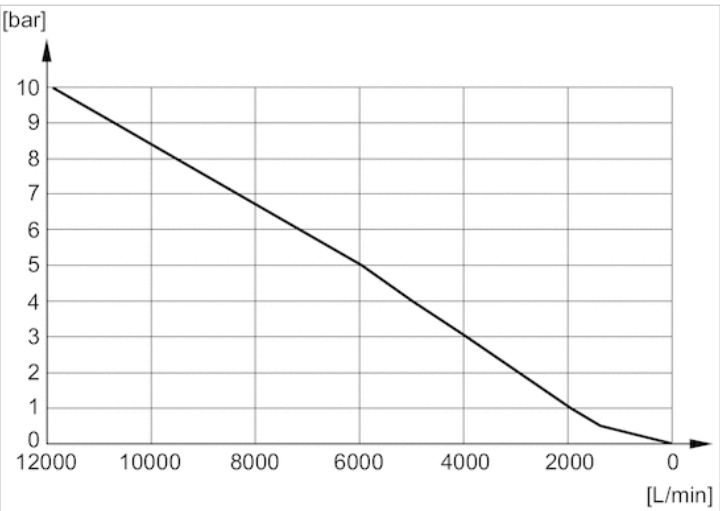
Flow diagram 1827000020



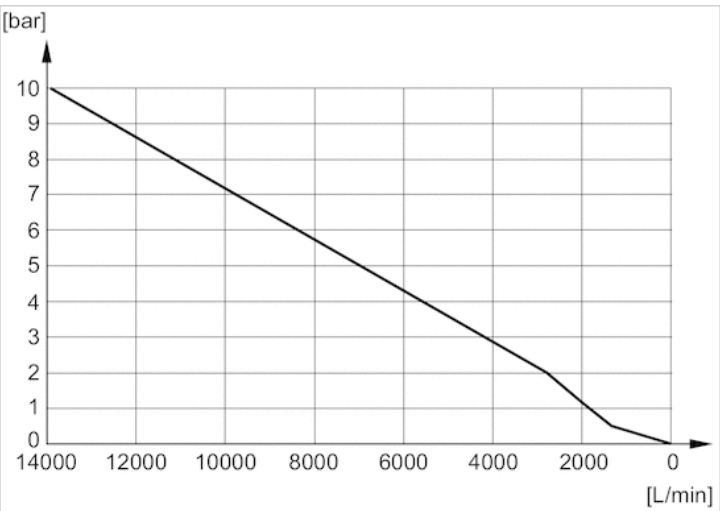
Flow diagram 1827000021



Flow diagram 1827000022



Flow diagram 1827000023



# Silencers, series SI1

- Sintered bronze



Working pressure min./max.

0 ... 10 bar

Ambient temperature min./max.

-25 ... 80 °C

Medium

Compressed air

Sound pressure level

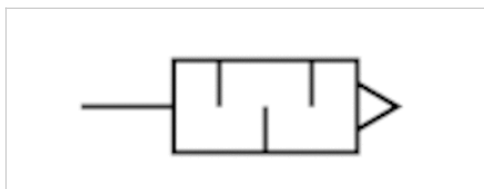
85 dB

Weight

0,035 kg

Comment

Flow characteristic curves can be found under "Diagrams".



## Technical data

| Part No.   | Compressed air connection | Flow       | Delivery unit |
|------------|---------------------------|------------|---------------|
|            |                           | Qn         |               |
| 1827000035 | G 1/2                     | 2568 l/min | 2 piece       |

Weight per piece

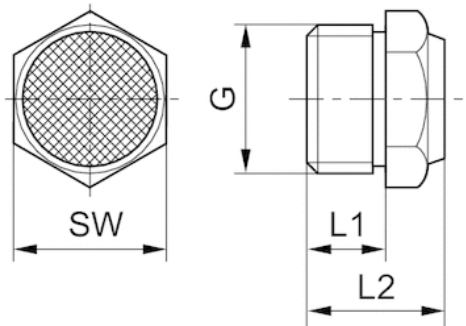
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

| Material  |                 |
|-----------|-----------------|
| Silencers | Sintered bronze |
| Thread    | Brass           |

Dimensions

Dimensions

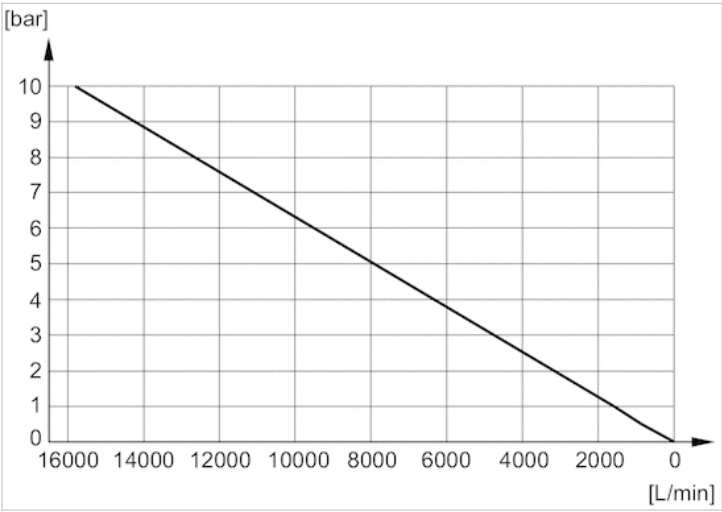


Dimensions

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

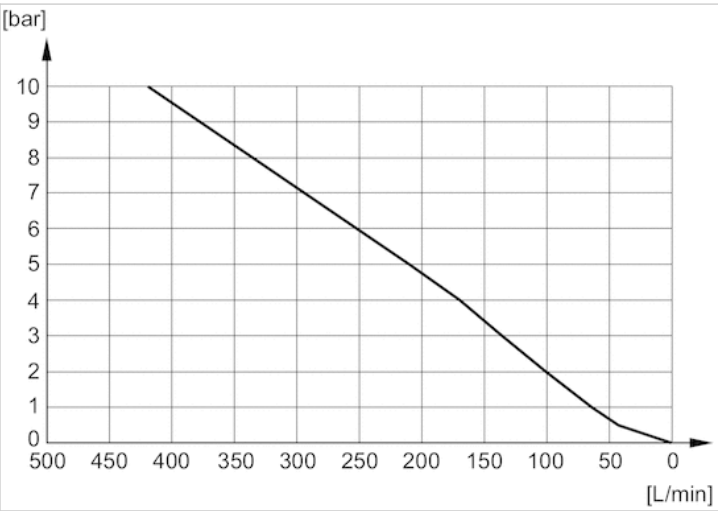
Sound pressure level measured at 6 bar at 1 m distance

Flow diagram 8145001000

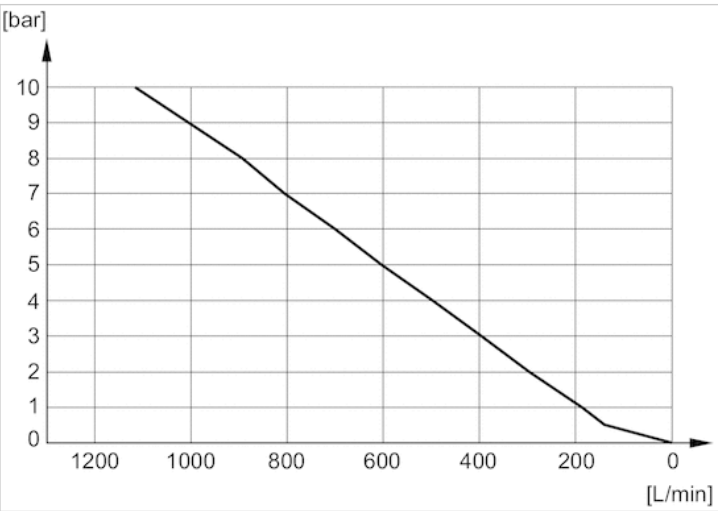


# Diagrams

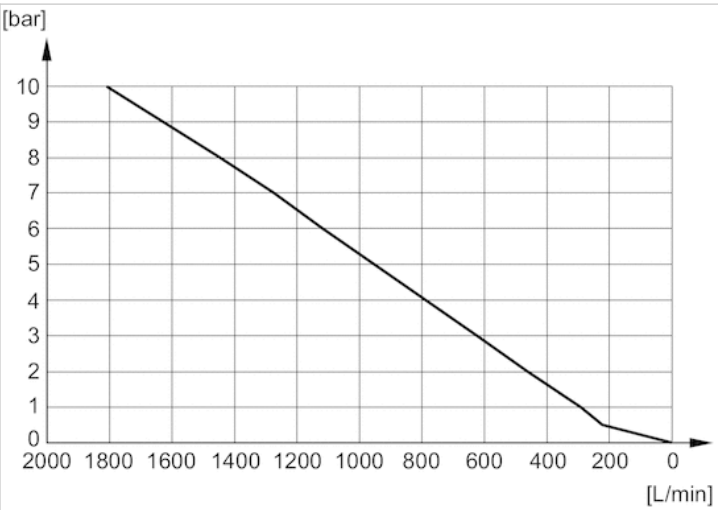
Flow diagram 1827000032



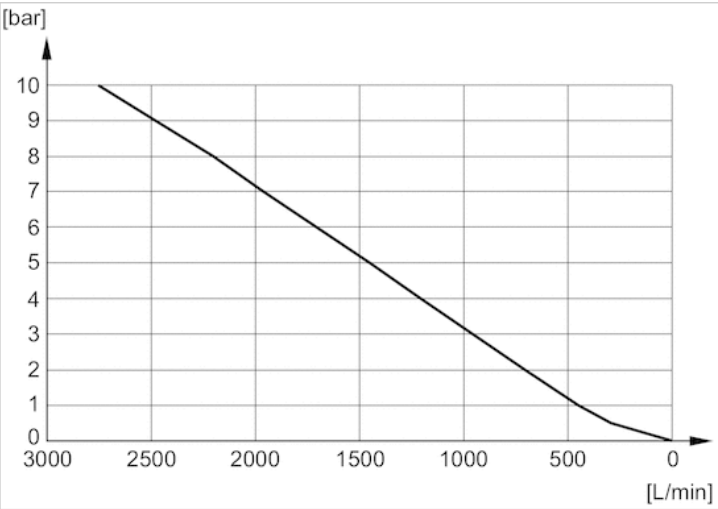
Flow diagram 1827000031



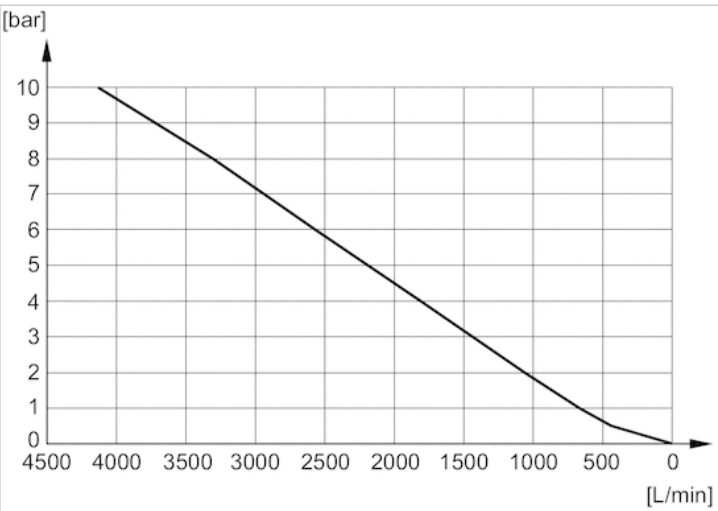
Flow diagram 1827000033



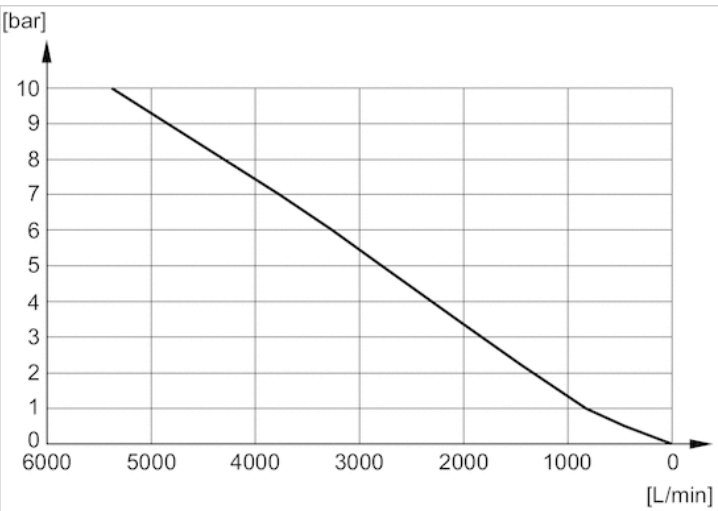
Flow diagram 1827000034



Flow diagram 1827000035



Flow diagram 8145003400



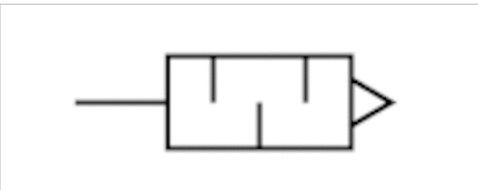
# Silencers, series SI1

- Sintered bronze



Working pressure min./max.  
Ambient temperature min./max.  
Medium  
Comment

0 ... 10 bar  
-25 ... 80 °C  
Compressed air  
Flow characteristic curves can be found under "Diagrams".



## Technical data

| Part No.   | Compressed air connection | Flow       | Delivery unit |
|------------|---------------------------|------------|---------------|
|            |                           | Qn         |               |
| R412007876 | G 1/2                     | 1343 l/min | 2 piece       |

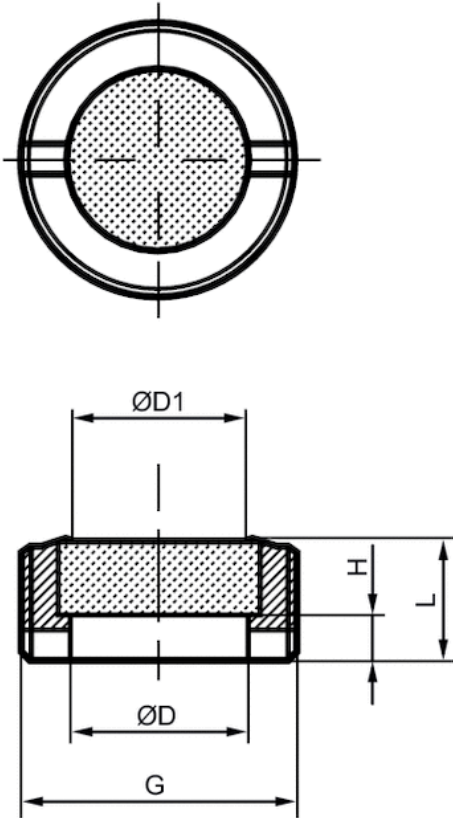
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

| Material  |                 |
|-----------|-----------------|
| Silencers | Sintered bronze |
| Thread    | Brass           |

Dimensions

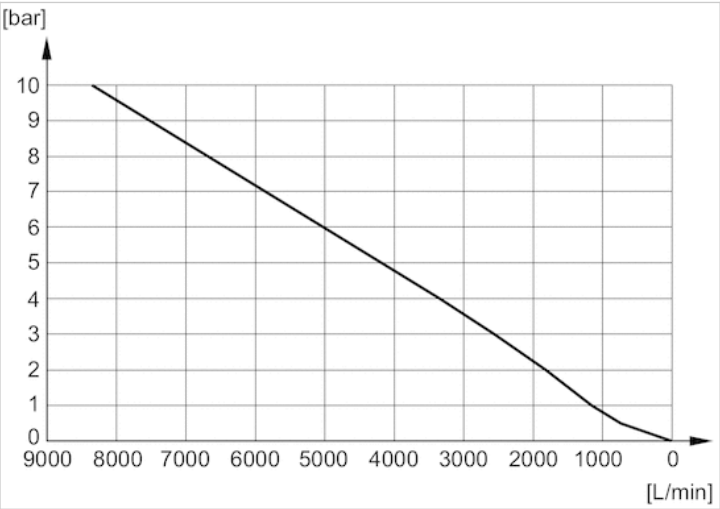
Dimensions



Dimensions

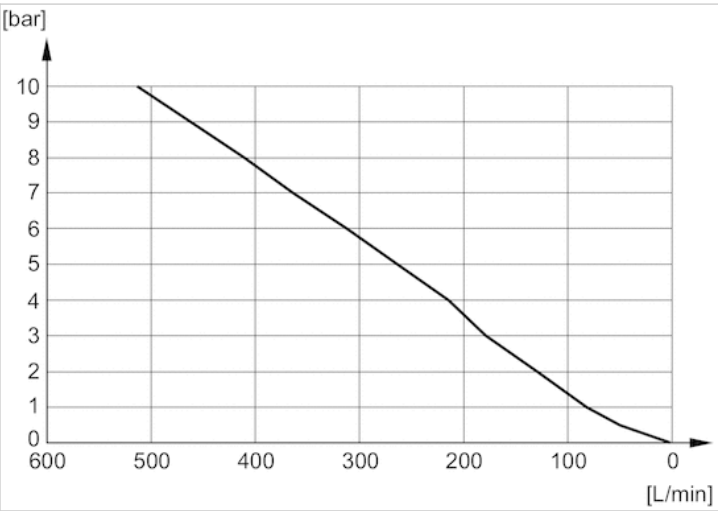
| Part No.   | Port G | $\varnothing D$ | $\varnothing D1$ | H | L |
|------------|--------|-----------------|------------------|---|---|
| R412007876 | G 1/2  | 15              | 12               | 5 | 9 |

Flow diagram R412007878

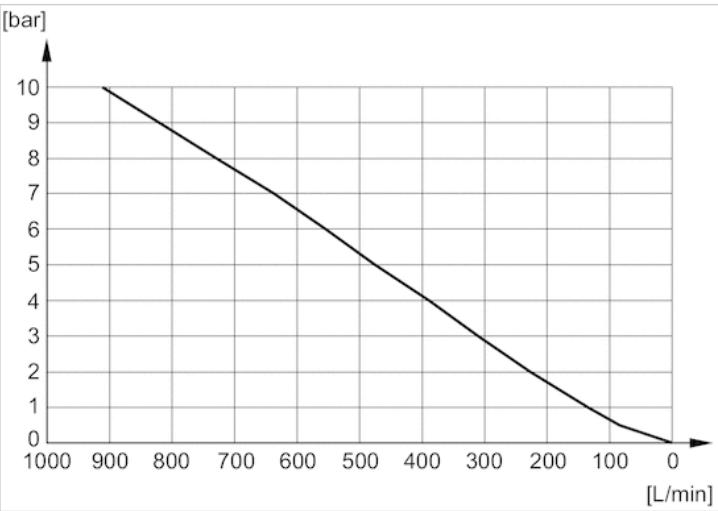


# Diagrams

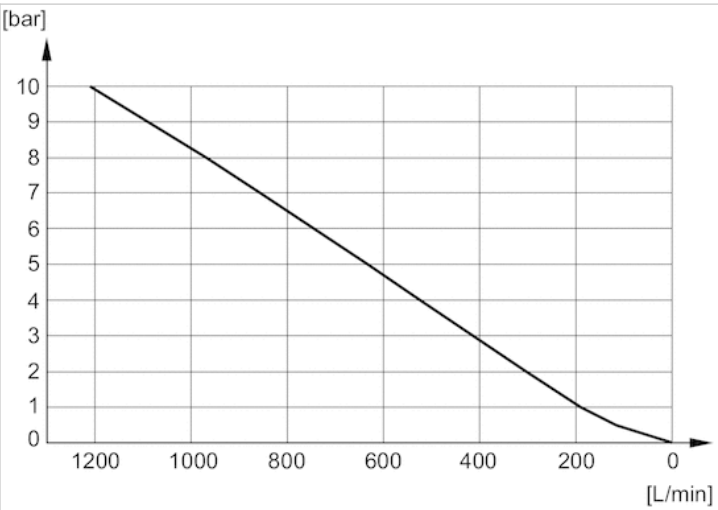
Flow diagram 1827430004



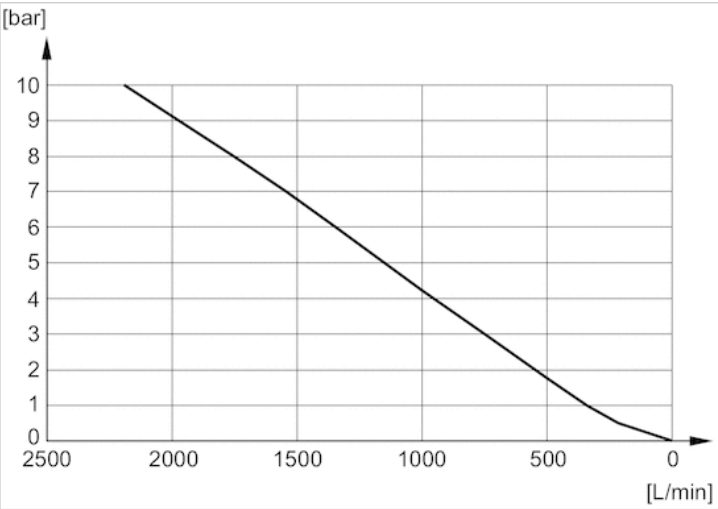
Flow diagram R414000155



R412007875



Flow diagram R412007876



Flow diagram R412007877

