# 3/2-directional valve, Series CD07

- Qn = 1400 l/min
- Pilot valve width : 30 mm
- NC, NO
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without
- 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. | 3 ... 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 |
| Nominal flow Qn | 1400 l/min |
| Nominal flow 1 ▸ 2 | 1400 l/min |
| Nominal flow 2 ▸ 3 | 1400 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 | 13, 14 |
| Duty cycle | 100 % |
| Weight | See table below |

# Technical data

| Part No. | | | MO | Compressed air connection |
|---|---|---|---|---|
| | | | | Input |
| 5772070220 | | NC/NO | | G 1/4 |
| 5772075270 | | NC/NO | | G 1/4 |
| 5772075280 | | NC/NO | | G 1/4 |
| 5772072220 | | NC/NO | | G 1/4 |
| 5772075220 | | NC/NO | | G 1/4 |
| 5772075302 | | NC/NO | | G 1/4 |
| 5772080220 | | NC/NO | | G 1/4 |
| 5772085270 | | NC/NO | | G 1/4 |
| 5772085280 | | NC/NO | | G 1/4 |
| 5772085220 | | NC/NO | | G 1/4 |
| 5772085302 | | NC/NO | | G 1/4 |
| R412004091 | | NC/NO | | G 1/4 |
| R412004092 | | NC/NO | | G 1/4 |
| 5772960220 | | NC/NO | – | G 1/4 |
| 5772965302 | | NC/NO | – | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Output | Exhaust |
| 5772070220 | G 1/4 | G 1/4 |
| 5772075270 | G 1/4 | G 1/4 |
| 5772075280 | G 1/4 | G 1/4 |
| 5772072220 | G 1/4 | G 1/4 |
| 5772075220 | G 1/4 | G 1/4 |
| 5772075302 | G 1/4 | G 1/4 |
| 5772080220 | G 1/4 | G 1/4 |
| 5772085270 | G 1/4 | G 1/4 |
| 5772085280 | G 1/4 | G 1/4 |
| 5772085220 | G 1/4 | G 1/4 |
| 5772085302 | G 1/4 | G 1/4 |
| R412004091 | G 1/4 | G 1/4 |
| R412004092 | G 1/4 | G 1/4 |
| 5772960220 | G 1/4 | G 1/4 |
| 5772965302 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Pilot Input | Pilot Exhaust | DC |
| 5772070220 | - | - | 24 V |
| 5772075270 | - | - | - |
| 5772075280 | - | - | - |
| 5772072220 | - | - | 24 V |
| 5772075220 | - | - | - |
| 5772075302 | - | - | - |
| 5772080220 | G 1/8 | M5 | 24 V |
| 5772085270 | G 1/8 | M5 | - |
| 5772085280 | G 1/8 | M5 | - |
| 5772085220 | G 1/8 | M5 | - |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Pilot Input | Pilot Exhaust | DC |
| 5772085302 | G 1/8 | M5 | - |
| R412004091 | - | - | 24 V |
| R412004092 | G 1/8 | M5 | 24 V |
| 5772960220 | - | - | 24 V |
| 5772965302 | - | - | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5772070220 | - | - | -10% / +10% | - |
| 5772075270 | 110 V | 110 V | - | -20% / +10% |
| 5772075280 | 230 V | 230 V | - | -20% / +10% |
| 5772072220 | - | - | -20% / +30% | - |
| 5772075220 | 24 V | 24 V | - | -20% / +10% |
| 5772075302 | - | - | - | - |
| 5772080220 | - | - | -10% / +10% | - |
| 5772085270 | 110 V | 110 V | - | -20% / +10% |
| 5772085280 | 230 V | 230 V | - | -20% / +10% |
| 5772085220 | 24 V | 24 V | - | -20% / +10% |
| 5772085302 | - | - | - | - |
| R412004091 | - | - | -10% / +10% | - |
| R412004092 | - | - | -10% / +10% | - |
| 5772960220 | - | - | -10% / +10% | - |
| 5772965302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5772070220 | - | 2,1 W | - | - |
| 5772075270 | -10% / +20% | - | 4,3 VA | 3,3 VA |
| 5772075280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5772072220 | - | 4,5 W | - | - |
| 5772075220 | -10% / +20% | - | 4,3 VA | 3,2 VA |
| 5772075302 | - | - | - | - |
| 5772080220 | - | 2,1 W | - | - |
| 5772085270 | -10% / +20% | - | 4,3 VA | 3,3 VA |
| 5772085280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5772085220 | -10% / +20% | - | 4,3 VA | 3,2 VA |
| 5772085302 | - | - | - | - |
| R412004091 | - | 2,1 W | - | - |
| R412004092 | - | 2,1 W | - | - |
| 5772960220 | - | 2,1 W | - | - |
| 5772965302 | - | - | - | - |

Nominal flow Qn 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).

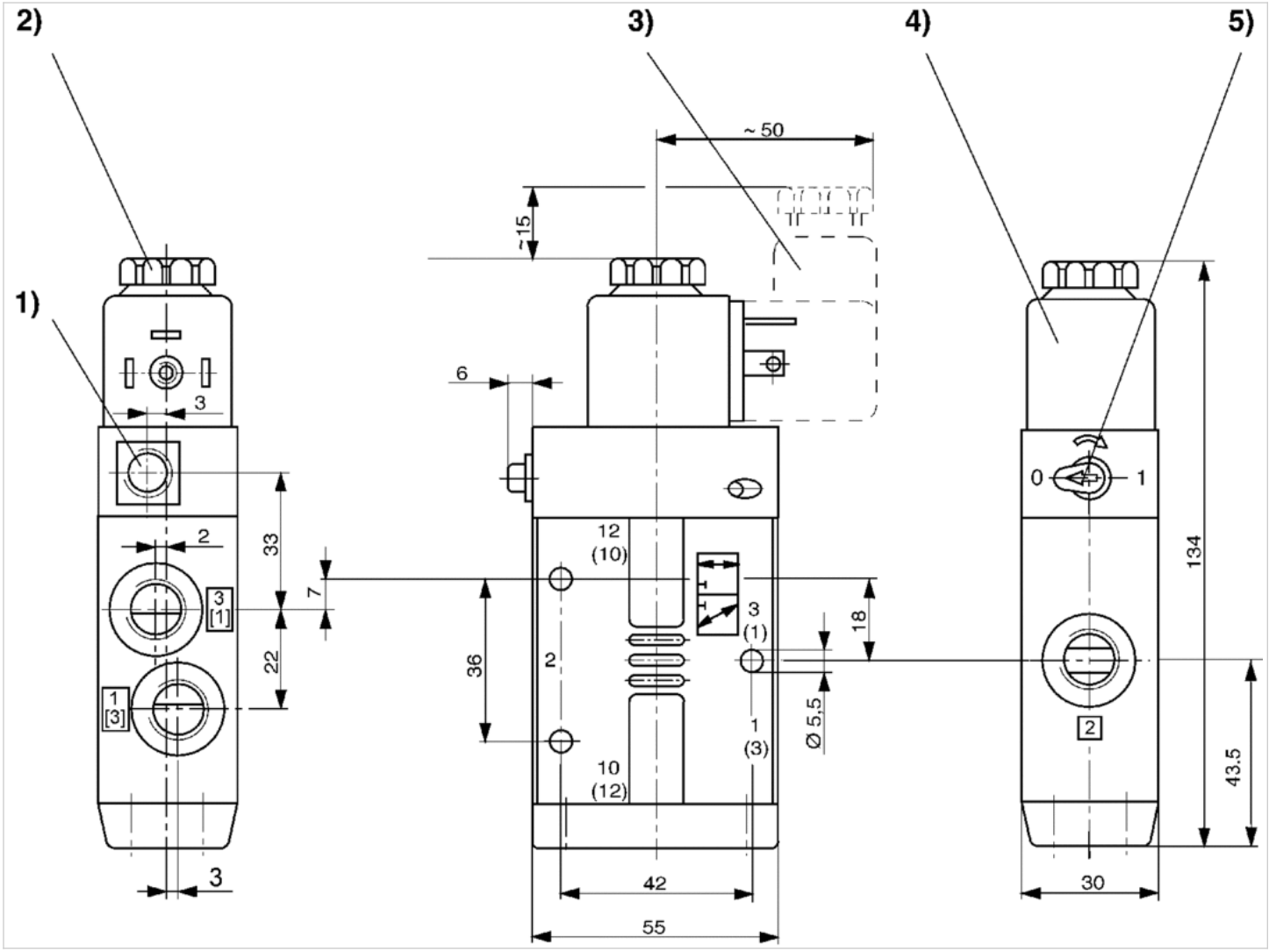
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
option valve: The input and output compressed air connections can be exchanged.The valve can thereby be used in the NC or NO operating mode.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 3/2-directional valve, Series CD07

- Qn = 1400 l/min
- Pilot valve width : 30 mm
- NC, NO
- Pipe connection
- Compressed air connection output : M14x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with 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. | 3 ... 10 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/m³ |
| Nominal flow Qn | 1400 l/min |
| Nominal flow 1 ▸ 2 | 1400 l/min |
| Nominal flow 2 ▸ 3 | 1400 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 | 13, 14 |
| Duty cycle | 100 % |
| Weight | See table below |

# Technical data

| Part No. | | | MO | Compressed air connection |
|---|---|---|---|---|
| | | | | Input |
| 5772020220 | | NC/NO | | M14x1,5 |
| 5772025270 | | NC/NO | | M14x1,5 |
| 5772025280 | | NC/NO | | M14x1,5 |
| 5772020770 | | NC/NO | | M14x1,5 |
| 5772025302 | | NC/NO | | M14x1,5 |
| 5772030220 | | NC/NO | | M14x1,5 |
| 5772035280 | | NC/NO | | M14x1,5 |
| 5772035302 | | NC/NO | | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Output | Exhaust |
| 5772020220 | M14x1,5 | M14x1,5 |
| 5772025270 | M14x1,5 | M14x1,5 |
| 5772025280 | M14x1,5 | M14x1,5 |
| 5772020770 | M14x1,5 | M14x1,5 |
| 5772025302 | M14x1,5 | M14x1,5 |
| 5772030220 | M14x1,5 | M14x1,5 |
| 5772035280 | M14x1,5 | M14x1,5 |
| 5772035302 | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Pilot Input | Pilot Exhaust | DC |
| 5772020220 | - | - | 24 V |
| 5772025270 | - | - | - |
| 5772025280 | - | - | - |
| 5772020770 | - | - | 110 V |
| 5772025302 | - | - | - |
| 5772030220 | G 1/8 | M5 | 24 V |
| 5772035280 | G 1/8 | M5 | - |
| 5772035302 | G 1/8 | M5 | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5772020220 | - | - | -10% / +10% | - |
| 5772025270 | 110 V | 110 V | - | -20% / +10% |
| 5772025280 | 230 V | 230 V | - | -20% / +10% |
| 5772020770 | - | - | -20% / +30% | - |
| 5772025302 | - | - | - | - |
| 5772030220 | - | - | -10% / +10% | - |
| 5772035280 | 230 V | 230 V | - | -20% / +10% |
| 5772035302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5772020220 | - | 2,1 W | - | - |
| 5772025270 | -10% / +20% | - | 4,3 VA | 3,3 VA |
| 5772025280 | -10% / +20% | - | 4,8 VA | 4,1 VA |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5772020770 | - | 4,1 W | - | - |
| 5772025302 | - | - | - | - |
| 5772030220 | - | 2,1 W | - | - |
| 5772035280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5772035302 | - | - | - | - |

Nominal flow Qn 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).

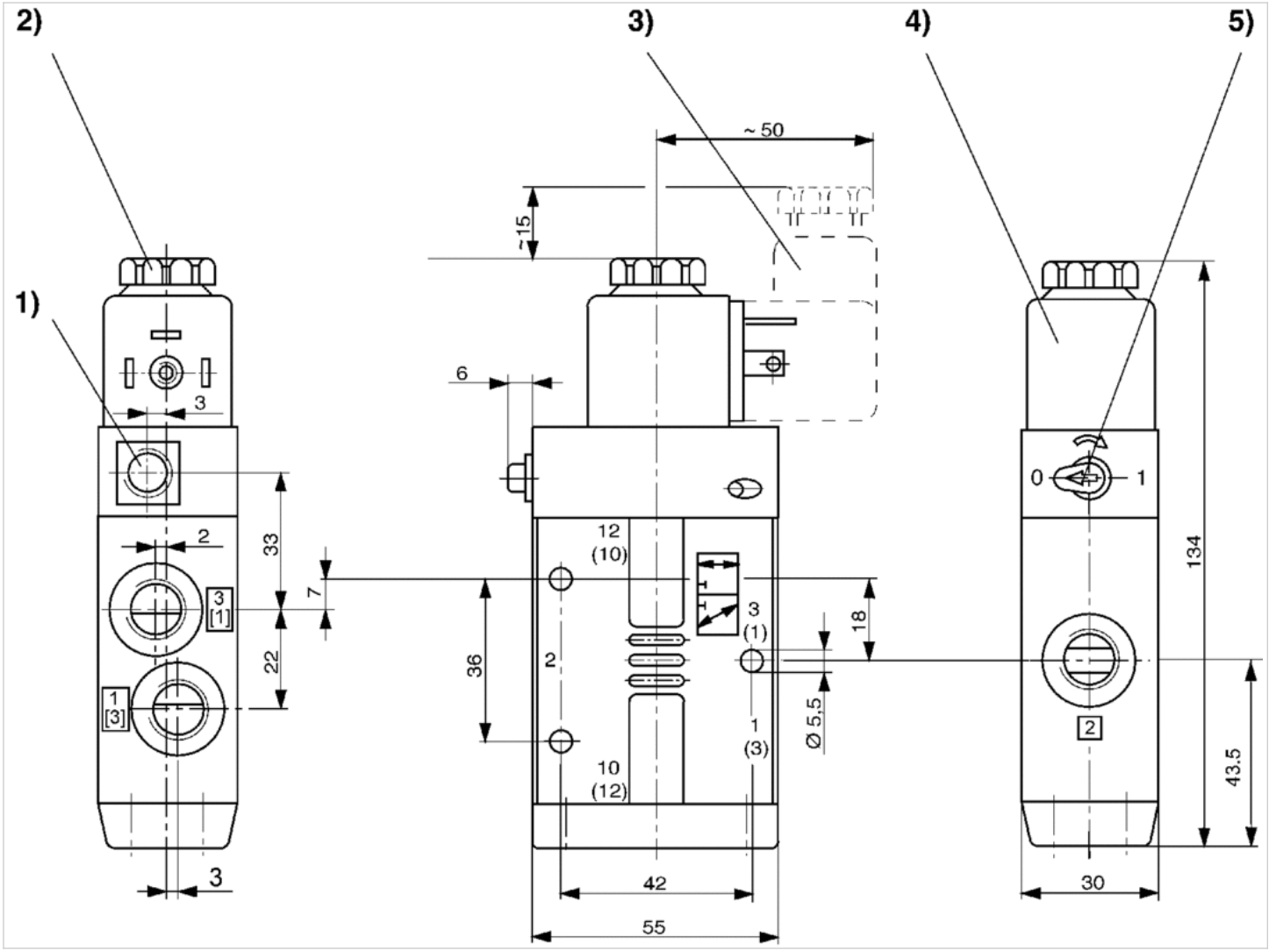
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.
option valve: The input and output compressed air connections can be exchanged.The valve can thereby be used in the NC or NO operating mode.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent, without
- 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. | 3 ... 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 |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 % |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | See table below |

# Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776070220 | | | G 1/4 | G 1/4 |
| 5776075280 | | | G 1/4 | G 1/4 |
| 5776080220 | | | G 1/4 | G 1/4 |
| 5776085280 | | | G 1/4 | G 1/4 |
| 5776075302 | | | G 1/4 | G 1/4 |
| 5776085302 | | | G 1/4 | G 1/4 |
| R412004093 | | | G 1/4 | G 1/4 |
| 5776070360 | | | G 1/4 | G 1/4 |
| 5776085270 | | | G 1/4 | G 1/4 |
| 5776980220 | | – | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Exhaust | Pilot Input |
| 5776070220 | G 1/4 | - |
| 5776075280 | G 1/4 | - |
| 5776080220 | G 1/4 | G 1/8 |
| 5776085280 | G 1/4 | G 1/8 |
| 5776075302 | G 1/4 | - |
| 5776085302 | G 1/4 | G 1/8 |
| R412004093 | G 1/4 | - |
| 5776070360 | G 1/4 | - |
| 5776085270 | G 1/4 | G 1/8 |
| 5776980220 | G 1/4 | - |

| Part No. | Compressed air connection | Operationalvoltage | Operationalvoltage |
|---|---|---|---|
| | Pilot Exhaust | DC | AC 50 Hz |
| 5776070220 | - | 24 V | - |
| 5776075280 | - | - | 230 V |
| 5776080220 | M5 | 24 V | - |
| 5776085280 | M5 | - | 230 V |
| 5776075302 | - | - | - |
| 5776085302 | M5 | - | - |
| R412004093 | - | 24 V | - |
| 5776070360 | - | 96 V | - |
| 5776085270 | M5 | - | 110 V |
| 5776980220 | - | 24 V | - |

| Part No. | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776070220 | - | -10% / +15% | - | - |
| 5776075280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5776080220 | - | -10% / +10% | - | - |
| 5776085280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5776075302 | - | - | - | - |
| 5776085302 | - | - | - | - |
| R412004093 | - | -10% / +10% | - | - |

| Part No. | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776070360 | - | -30% / +30% | - | - |
| 5776085270 | 110 V | - | -20% / +10% | -10% / +20% |
| 5776980220 | - | -10% / +10% | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|---|---|---|---|---|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| 5776070220 | 2,1 W | - | - | - |
| 5776075280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5776080220 | 2,1 W | - | - | - |
| 5776085280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5776075302 | - | - | - | - |
| 5776085302 | - | - | - | - |
| R412004093 | 2,1 W | - | - | - |
| 5776070360 | 5,8 W | - | - | - |
| 5776085270 | - | 4,3 VA | 3,3 VA | 6,8 VA |
| 5776980220 | 2,1 W | - | - | - |

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override, Nickel-plated armature guide (only suitable for DC variant), i.e. the base must not be equipped with AC coils.

## 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).

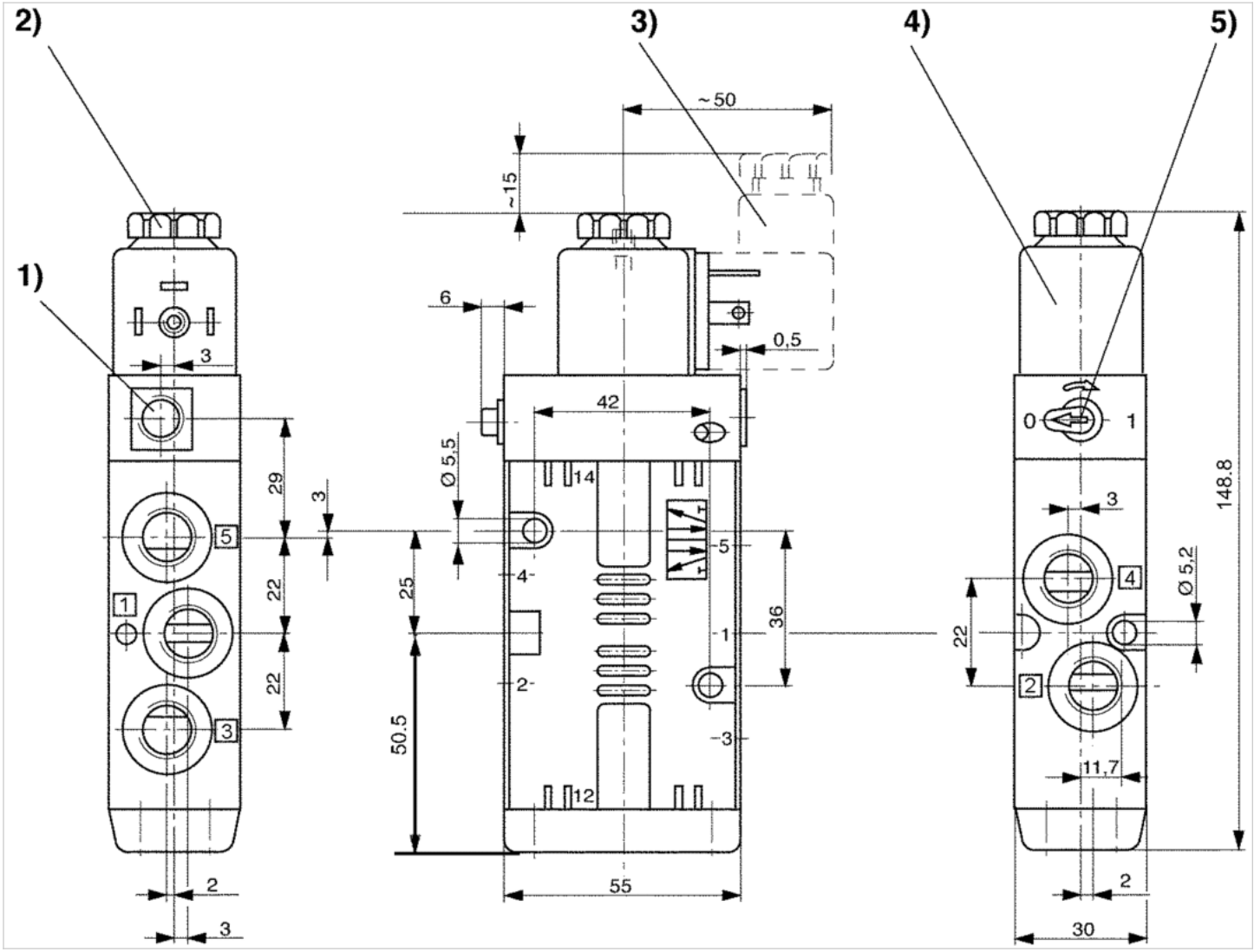
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- cold-resistant
- Manual override : with detent
- Double solenoid
- Pilot : internal

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Electrically |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 3 ... 10 bar |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -40 ... 50 °C |
| Medium temperature min./max. | -40 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,75 kg |

## Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776840220 | | | G 1/4 | G 1/4 |
| 5776845280 | | | G 1/4 | G 1/4 |
| 5776845302 | | | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Exhaust | Pilot Exhaust | DC |
| 5776840220 | G 1/4 | M5 | 24 V |
| 5776845280 | G 1/4 | M5 | - |
| 5776845302 | G 1/4 | M5 | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5776840220 | - | - | -10% / +10% | - |
| 5776845280 | 230 V | 230 V | - | -20% / +10% |
| 5776845302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776840220 | - | 2,1 W | - | - |
| 5776845280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5776845302 | - | - | - | - |

| Part No. | Switch-on power | Switch-on power | Typ. switch-on time | Typ. switch-off time |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | | |
| 5776840220 | - | - | 21 ms | 21 ms |
| 5776845280 | 6,9 VA | 5,8 VA | 21 ms | 21 ms |
| 5776845302 | - | - | - | - |

Nominal flow Qn 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).

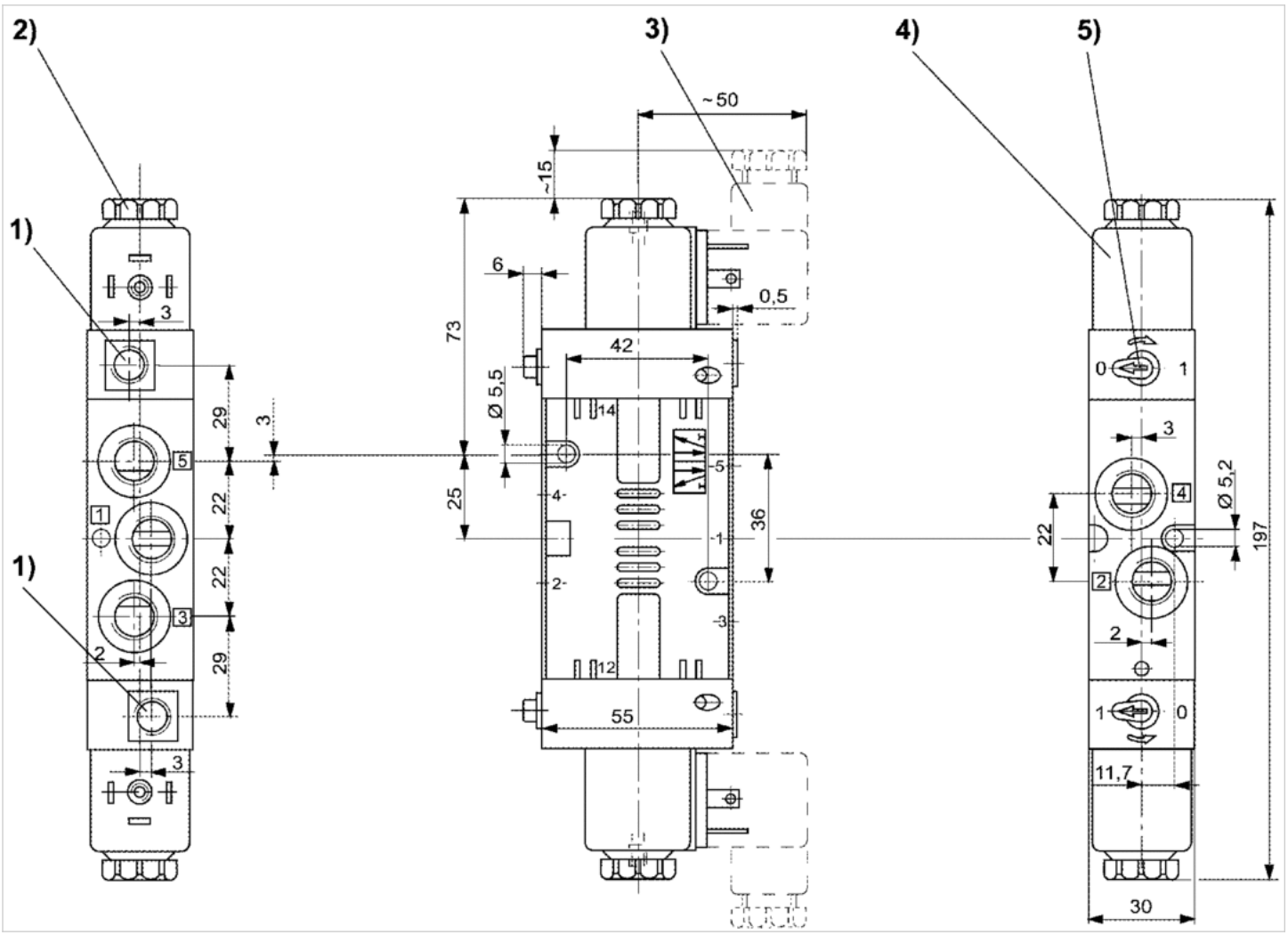
## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced, Die cast zinc, Polyarylamide, fiber-glass reinforced |

| Material | |
|---|---|
| Seals | Polyurethane |

## Dimensions

### Dimensions Fig. 1




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- - 40 °C cold-resistant
- Manual override : with 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. | 3,5 ... 10 bar |
| Control pressure min./max. | 3,5 ... 10 bar |
| Ambient temperature min./max. | -40 ... 50 °C |
| Medium temperature min./max. | -40 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 25 ms |
| Typ. switch-off time | 45 ms |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,57 kg |

## Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776960220 | | | G 1/4 | G 1/4 |
| 5776965280 | | | G 1/4 | G 1/4 |
| 5776965302 | | | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Exhaust | Pilot Exhaust | DC |
| 5776960220 | G 1/4 | M5 | 24 V |
| 5776965280 | G 1/4 | M5 | - |
| 5776965302 | G 1/4 | M5 | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5776960220 | - | - | -10% / +10% | - |
| 5776965280 | 230 V | 230 V | - | -20% / +10% |
| 5776965302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776960220 | - | 2,1 W | - | - |
| 5776965280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5776965302 | - | - | - | - |

| Part No. | Switch-on power | Switch-on power | Protection class |
|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | with connection |
| 5776960220 | - | - | IP65 |
| 5776965280 | 6,9 VA | 5,8 VA | IP65 |
| 5776965302 | - | - | - |

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

## Technical information

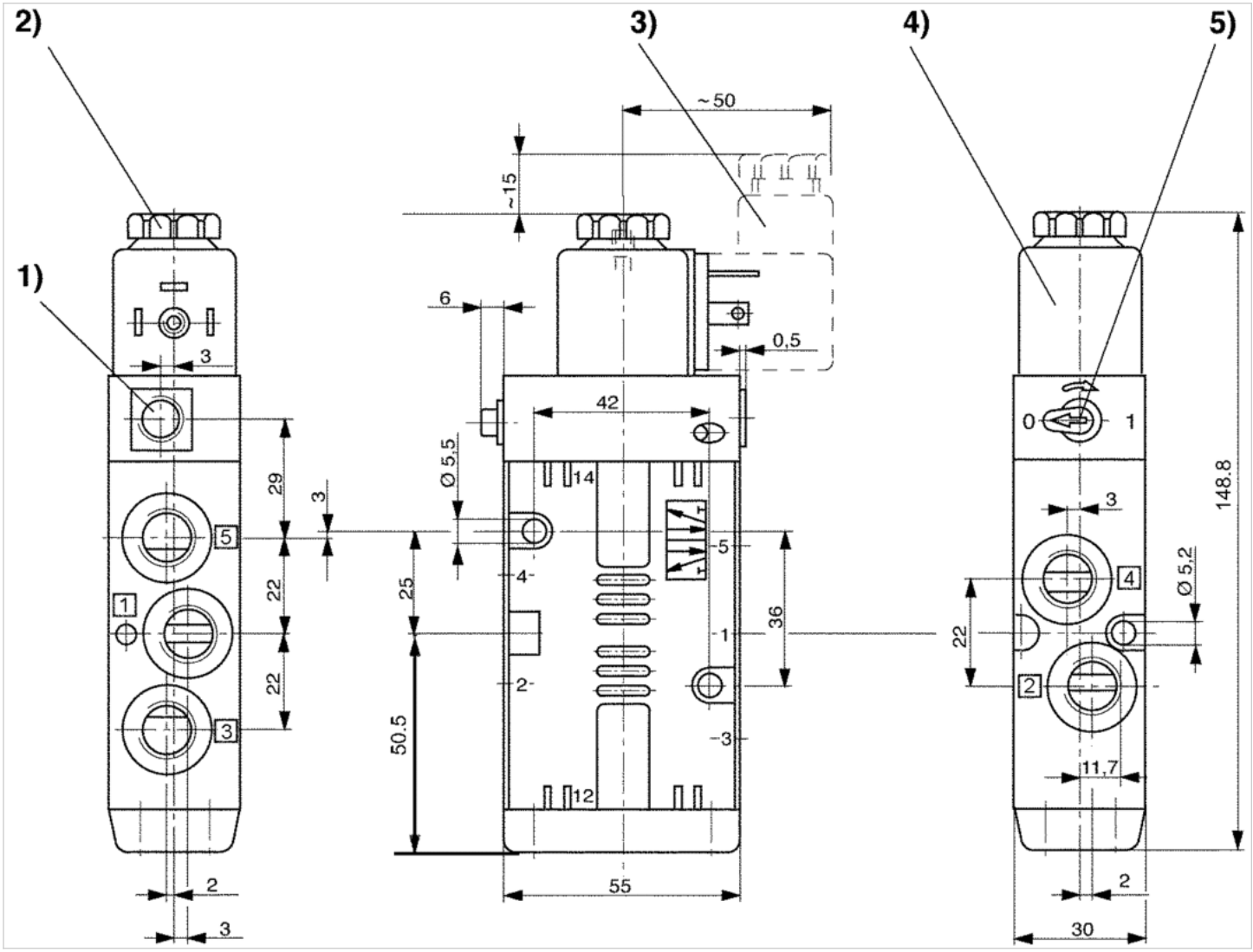
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Polyurethane |

# Dimensions

## Dimensions




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- - 25 °C cold-resistant
- Manual override : with 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. | 2 ... 10 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/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | See table below |

# Technical data

| Part No. | | MO | Compressed air connection |
|---|---|---|---|
| | | | Input |
| 5776270220 | | | G 1/4 |
| 5776272220 | | | G 1/4 |
| 5776275270 | | | G 1/4 |
| 5776275280 | | | G 1/4 |
| 5776275220 | | | G 1/4 |
| 5776275302 | | | G 1/4 |
| 5776280220 | | | G 1/4 |
| 5776285270 | | | G 1/4 |
| 5776285280 | | | G 1/4 |
| 5776285302 | | | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Output | Exhaust |
| 5776270220 | G 1/4 | G 1/4 |
| 5776272220 | G 1/4 | G 1/4 |
| 5776275270 | G 1/4 | G 1/4 |
| 5776275280 | G 1/4 | G 1/4 |
| 5776275220 | G 1/4 | G 1/4 |
| 5776275302 | G 1/4 | G 1/4 |
| 5776280220 | G 1/4 | G 1/4 |
| 5776285270 | G 1/4 | G 1/4 |
| 5776285280 | G 1/4 | G 1/4 |
| 5776285302 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Pilot Input | Pilot Exhaust | DC |
| 5776270220 | - | - | 24 V |
| 5776272220 | - | - | 24 V |
| 5776275270 | - | - | - |
| 5776275280 | - | - | - |
| 5776275220 | - | - | - |
| 5776275302 | - | - | - |
| 5776280220 | G 1/8 | M5 | 24 V |
| 5776285270 | G 1/8 | M5 | - |
| 5776285280 | G 1/8 | M5 | - |
| 5776285302 | G 1/8 | M5 | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5776270220 | - | - | -10% / +10% | - |
| 5776272220 | - | - | -20% / +30% | - |
| 5776275270 | 110 V | 110 V | - | -20% / +10% |
| 5776275280 | 230 V | 230 V | - | -20% / +10% |
| 5776275220 | 24 V | 24 V | - | -20% / +10% |
| 5776275302 | - | - | - | - |
| 5776280220 | - | - | -10% / +10% | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5776285270 | 110 V | 110 V | - | -20% / +10% |
| 5776285280 | 230 V | 230 V | - | -20% / +10% |
| 5776285302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776270220 | - | 2,1 W | - | - |
| 5776272220 | - | 4,5 W | - | - |
| 5776275270 | -10% / +20% | - | 4,3 VA | 3,3 VA |
| 5776275280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5776275220 | -10% / +20% | - | 4,3 VA | 3,2 VA |
| 5776275302 | - | - | - | - |
| 5776280220 | - | 2,1 W | - | - |
| 5776285270 | -10% / +20% | - | 4,3 VA | 3,3 VA |
| 5776285280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5776285302 | - | - | - | - |

Nominal flow Qn 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).

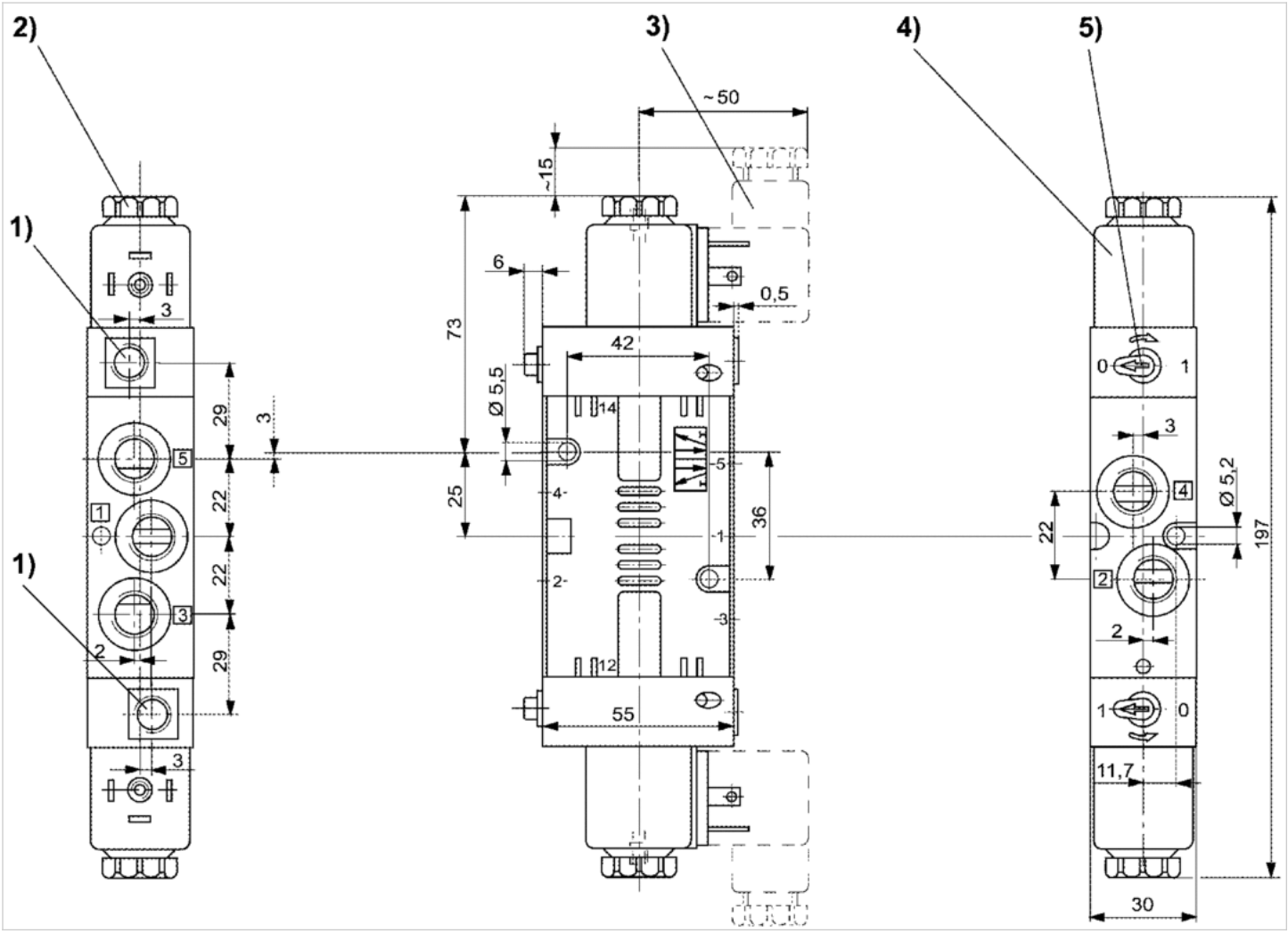
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions Fig. 1




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : M14x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with 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. | 3 ... 10 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/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | See table below |

# Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776020220 | | | M14x1,5 | M14x1,5 |
| 5776025270 | | | M14x1,5 | M14x1,5 |
| 5776025280 | | | M14x1,5 | M14x1,5 |
| 5776025302 | | | M14x1,5 | M14x1,5 |
| 5776030220 | | | M14x1,5 | M14x1,5 |
| 5776035280 | | | M14x1,5 | M14x1,5 |
| 5776035302 | | | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Exhaust | Pilot Input |
| 5776020220 | M14x1,5 | - |
| 5776025270 | M14x1,5 | - |
| 5776025280 | M14x1,5 | - |
| 5776025302 | M14x1,5 | - |
| 5776030220 | M14x1,5 | G 1/8 |
| 5776035280 | M14x1,5 | G 1/8 |
| 5776035302 | M14x1,5 | G 1/8 |

| Part No. | Compressed air connection | Operationalvoltage | Operationalvoltage |
|---|---|---|---|
| | Pilot Exhaust | DC | AC 50 Hz |
| 5776020220 | M5 | 24 V | - |
| 5776025270 | M5 | - | 110 V |
| 5776025280 | M5 | - | 230 V |
| 5776025302 | M5 | - | - |
| 5776030220 | M5 | 24 V | - |
| 5776035280 | M5 | - | 230 V |
| 5776035302 | M5 | - | - |

| Part No. | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776020220 | - | -10% / +10% | - | - |
| 5776025270 | 110 V | - | -20% / +10% | -10% / +20% |
| 5776025280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5776025302 | - | - | - | - |
| 5776030220 | - | -10% / +10% | - | - |
| 5776035280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5776035302 | - | - | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|---|---|---|---|---|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| 5776020220 | 2,1 W | - | - | - |
| 5776025270 | - | 4,3 VA | 3,3 VA | 6,8 VA |
| 5776025280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5776025302 | - | - | - | - |
| 5776030220 | 2,1 W | - | - | - |
| 5776035280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5776035302 | - | - | - | - |

Nominal flow Qn 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).

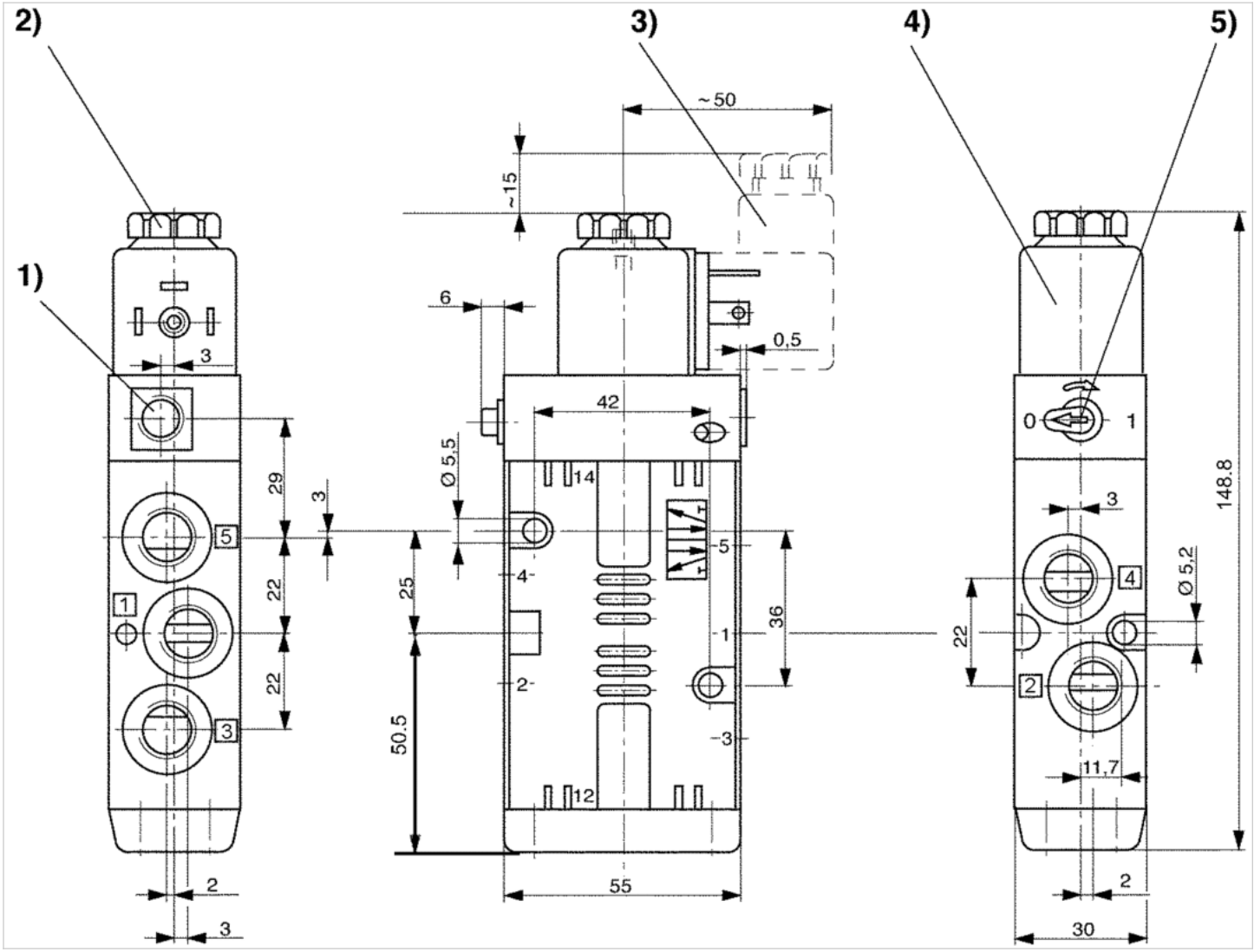
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced, Polyamide, fiber-glass reinforced, Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : M14x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with 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. | 2 ... 10 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/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,75 kg |

# Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776220220 | | | M14x1,5 | M14x1,5 |
| 5776225280 | | | M14x1,5 | M14x1,5 |
| 5776225302 | | | M14x1,5 | M14x1,5 |
| 5776230220 | | | M14x1,5 | M14x1,5 |
| 5776235280 | | | M14x1,5 | M14x1,5 |
| 5776235302 | | | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Exhaust | Pilot Input |
| 5776220220 | M14x1,5 | - |
| 5776225280 | M14x1,5 | - |
| 5776225302 | M14x1,5 | - |
| 5776230220 | M14x1,5 | G 1/8 |
| 5776235280 | M14x1,5 | G 1/8 |
| 5776235302 | M14x1,5 | G 1/8 |

| Part No. | Compressed air connection | Operationalvoltage | Operationalvoltage |
|---|---|---|---|
| | Pilot Exhaust | DC | AC 50 Hz |
| 5776220220 | M5 | 24 V | - |
| 5776225280 | M5 | - | 230 V |
| 5776225302 | M5 | - | - |
| 5776230220 | M5 | 24 V | - |
| 5776235280 | M5 | - | 230 V |
| 5776235302 | M5 | - | - |

| Part No. | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776220220 | - | -10% / +10% | - | - |
| 5776225280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5776225302 | - | - | - | - |
| 5776230220 | - | -10% / +10% | - | - |
| 5776235280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5776235302 | - | - | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|---|---|---|---|---|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| 5776220220 | 2,1 W | - | - | - |
| 5776225280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5776225302 | - | - | - | - |
| 5776230220 | 2,1 W | - | - | - |
| 5776235280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5776235302 | - | - | - | - |

Nominal flow Qn 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).

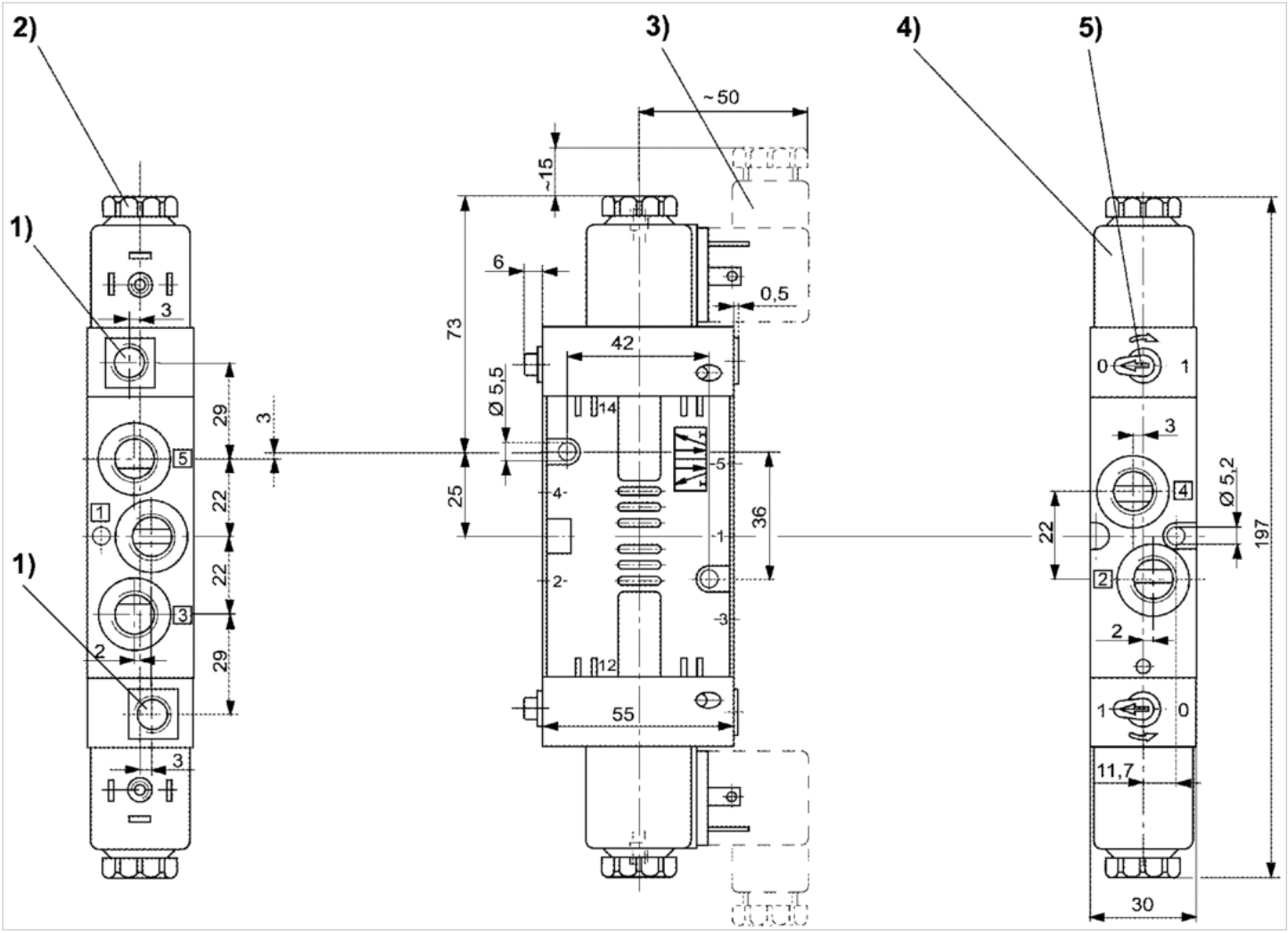
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions Fig. 1



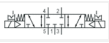
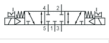
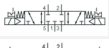
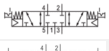
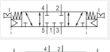
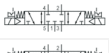
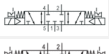
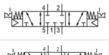
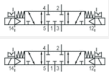
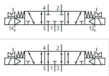
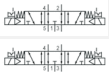
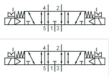
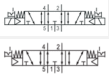
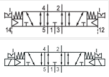
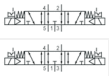
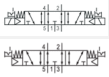
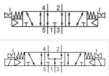
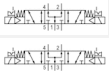
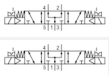
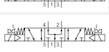
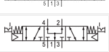

1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

# 5/3-directional valve, Series CD07

- Qn = 900 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : G 1/4
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- Double 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. | 3 ... 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 |
| Nominal flow Qn | 900 l/min |
| Nominal flow 1 ▸ 2 | See table below |
| Nominal flow 2 ▸ 3 | See table below |
| 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 | 13, 14 |
| Duty cycle | 100 % |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | See table below |

# Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5777770220 | | | G 1/4 | G 1/4 |
| 5777775270 |  | | G 1/4 | G 1/4 |
| 5777775280 |  | | G 1/4 | G 1/4 |
| 5777775220 |  | | G 1/4 | G 1/4 |
| 5777775302 |  | | G 1/4 | G 1/4 |
| 5777955302 |  | | G 1/4 | G 1/4 |
| 5777720220 |  | | G 1/4 | G 1/4 |
| 5777725280 |  | | G 1/4 | G 1/4 |
| 5777725302 |  | | G 1/4 | G 1/4 |
| R412003424 |  | | G 1/4 | G 1/4 |
| 5777955280 |  | | G 1/4 | G 1/4 |
| 5777760220 |  | | G 1/4 | G 1/4 |
| 5777765270 |  | | G 1/4 | G 1/4 |
| 5777765280 |  | | G 1/4 | G 1/4 |
| 5777765302 | | | G 1/4 | G 1/4 |
| 5777945302 |  | | G 1/4 | G 1/4 |
| 5777710220 |  | | G 1/4 | G 1/4 |
| 5777715280 |  | | G 1/4 | G 1/4 |
| 5777715302 |  | | G 1/4 | G 1/4 |
| 5777750220 |  | | G 1/4 | G 1/4 |
| 5777755280 |  | | G 1/4 | G 1/4 |
| 5777755302 |  | | G 1/4 | G 1/4 |
| 5777700220 |  | | G 1/4 | G 1/4 |
| 5777705302 | | | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Exhaust | Pilot Input |
| 5777770220 | G 1/4 | - |
| 5777775270 | G 1/4 | - |
| 5777775280 | G 1/4 | - |
| 5777775220 | G 1/4 | - |
| 5777775302 | G 1/4 | - |
| 5777955302 | G 1/4 | G 1/8 |
| 5777720220 | G 1/4 | - |
| 5777725280 | G 1/4 | - |
| 5777725302 | G 1/4 | - |
| R412003424 | G 1/4 | G 1/8 |
| 5777955280 | G 1/4 | G 1/8 |
| 5777760220 | G 1/4 | - |
| 5777765270 | G 1/4 | - |
| 5777765280 | G 1/4 | - |
| 5777765302 | G 1/4 | - |
| 5777945302 | G 1/4 | G 1/8 |
| 5777710220 | G 1/4 | - |
| 5777715280 | G 1/4 | - |
| 5777715302 | G 1/4 | - |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Exhaust | Pilot Input |
| 5777750220 | G 1/4 | - |
| 5777755280 | G 1/4 | - |
| 5777755302 | G 1/4 | - |
| 5777700220 | G 1/4 | - |
| 5777705302 | G 1/4 | - |

| Part No. | Compressed air connection | Operationalvoltage | Operationalvoltage |
|---|---|---|---|
| | Pilot Exhaust | DC | AC 50 Hz |
| 5777770220 | M5 | 24 V | - |
| 5777775270 | M5 | - | 110 V |
| 5777775280 | M5 | - | 230 V |
| 5777775220 | M5 | - | 24 V |
| 5777775302 | M5 | - | - |
| 5777955302 | M5 | - | - |
| 5777720220 | M5 | 24 V | - |
| 5777725280 | M5 | - | 230 V |
| 5777725302 | M5 | - | - |
| R412003424 | M5 | 24 V | - |
| 5777955280 | M5 | - | 230 V |
| 5777760220 | M5 | 24 V | - |
| 5777765270 | M5 | - | 110 V |
| 5777765280 | M5 | - | 230 V |
| 5777765302 | M5 | - | - |
| 5777945302 | M5 | - | - |
| 5777710220 | M5 | 24 V | - |
| 5777715280 | M5 | - | 230 V |
| 5777715302 | M5 | - | - |
| 5777750220 | M5 | 24 V | - |
| 5777755280 | M5 | - | 230 V |
| 5777755302 | M5 | - | - |
| 5777700220 | M5 | 24 V | - |
| 5777705302 | M5 | - | - |

| Part No. | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5777770220 | - | -10% / +10% | - | - |
| 5777775270 | 110 V | - | -20% / +10% | -10% / +20% |
| 5777775280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5777775220 | 24 V | - | -20% / +10% | -10% / +20% |
| 5777775302 | - | - | - | - |
| 5777955302 | - | - | - | - |
| 5777720220 | - | -10% / +10% | - | - |
| 5777725280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5777725302 | - | - | - | - |
| R412003424 | - | -10% / +10% | - | - |
| 5777955280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5777760220 | - | -10% / +10% | - | - |
| 5777765270 | 110 V | - | -20% / +10% | -10% / +20% |
| 5777765280 | 230 V | - | -20% / +10% | -10% / +20% |

| Part No. | Operationalvoltage | Voltage tolerance | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5777765302 | - | - | - | - |
| 5777945302 | - | - | - | - |
| 5777710220 | - | -10% / +10% | - | - |
| 5777715280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5777715302 | - | - | - | - |
| 5777750220 | - | -10% / +10% | - | - |
| 5777755280 | 230 V | - | -20% / +10% | -10% / +20% |
| 5777755302 | - | - | - | - |
| 5777700220 | - | -10% / +10% | - | - |
| 5777705302 | - | - | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|---|---|---|---|---|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| 5777770220 | 2,1 W | - | - | - |
| 5777775270 | - | 4,3 VA | 3,3 VA | 6,8 VA |
| 5777775280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5777775220 | - | 4,3 VA | 3,2 VA | 6,9 VA |
| 5777775302 | - | - | - | - |
| 5777955302 | - | - | - | - |
| 5777720220 | 2,1 W | - | - | - |
| 5777725280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5777725302 | - | - | - | - |
| R412003424 | 2,1 W | - | - | - |
| 5777955280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5777760220 | 2,1 W | - | - | - |
| 5777765270 | - | 4,3 VA | 3,3 VA | 6,8 VA |
| 5777765280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5777765302 | - | - | - | - |
| 5777945302 | - | - | - | - |
| 5777710220 | 2,1 W | - | - | - |
| 5777715280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5777715302 | - | - | - | - |
| 5777750220 | 2,1 W | - | - | - |
| 5777755280 | - | 4,8 VA | 4,1 VA | 6,9 VA |
| 5777755302 | - | - | - | - |
| 5777700220 | 2,1 W | - | - | - |
| 5777705302 | - | - | - | - |

Nominal flow Qn 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).

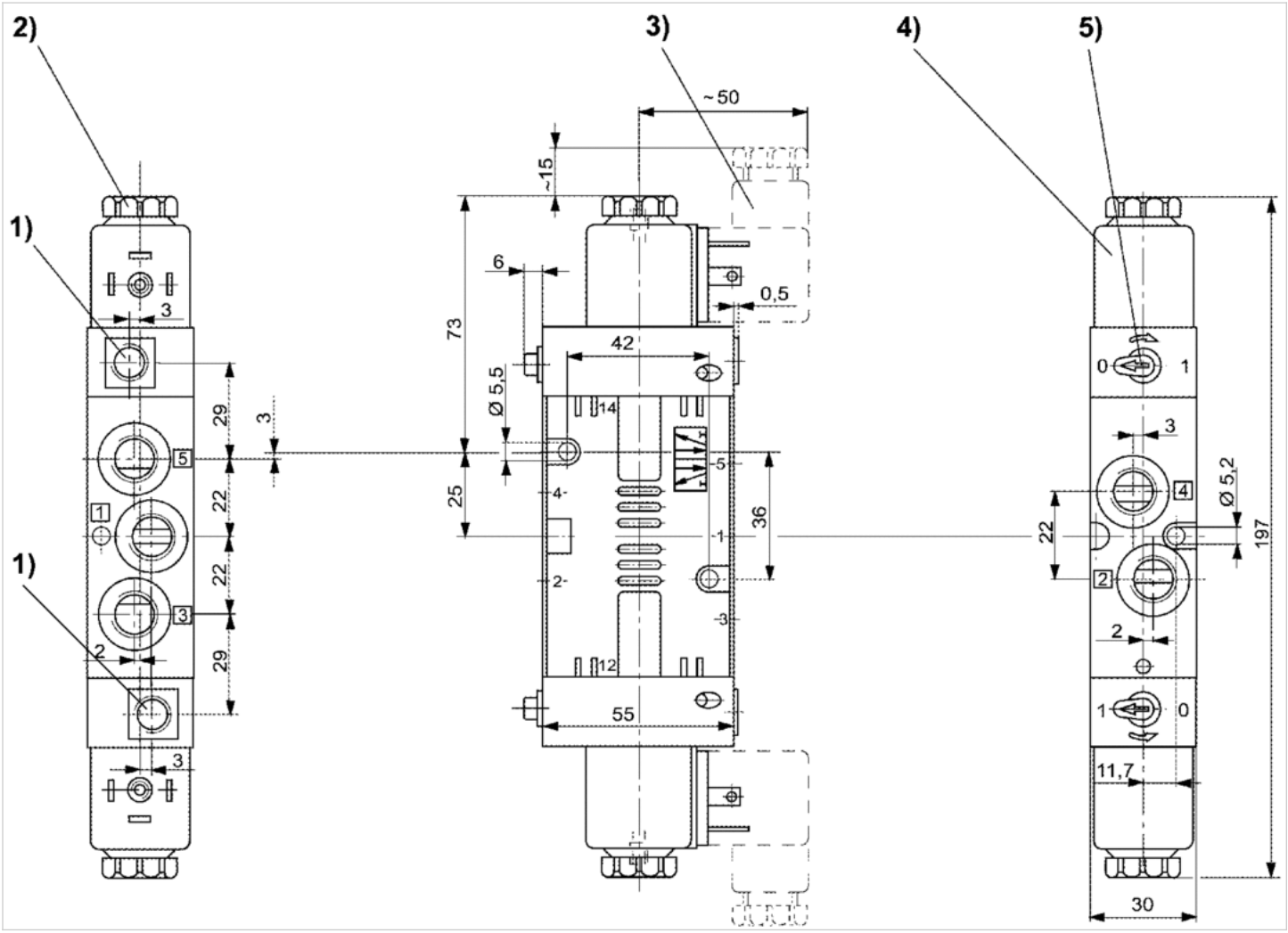
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

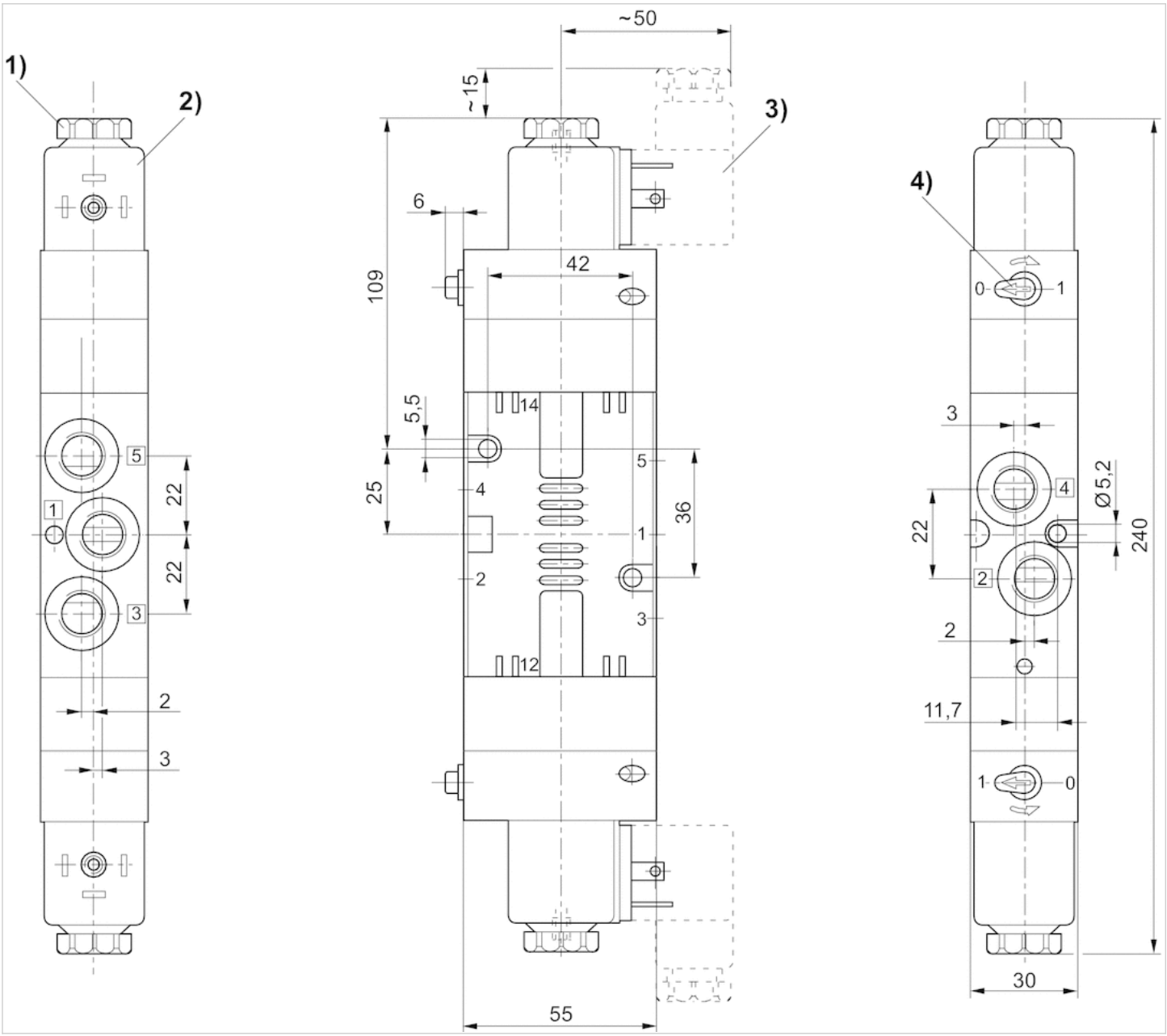
# Dimensions

## Dimensions Fig. 1




1) Only with separate pilot control G 1/8 2) After removal of cap M5 internal thread 3) Valve plug connector4) Coil can be plugged at 45° intervals 5) Manual override

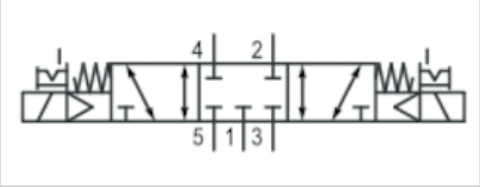
## Fig. 2




1) After removal of cap M5 internal thread 2) Coil can be plugged at 45° intervals 3) Valve plug connector4) Manual override

# 5/3-directional valve, Series CD07

- Qn = 900 l/min
- Pilot valve width : 30 mm
- closed center
- Pipe connection
- Compressed air connection output : M14x1,5
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- cold-resistant
- Manual override : with detent
- Double solenoid
- With spring return
- Pilot : internal




| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Electrically |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 3,5 ... 10 bar |
| Control pressure min./max. | 3,5 ... 10 bar |
| Ambient temperature min./max. | -30 ... 70 °C |
| Medium temperature min./max. | -30 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Nominal flow Qn | 900 l/min |
| Nominal flow 1 ▸ 2 | 900 l/min |
| Nominal flow 2 ▸ 3 | 900 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 | 25 ms |
| Typ. switch-off time | 55 ms |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,72 kg |

## Technical data

| Part No. | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|
| | | Input | Output |
| 5776920270 | | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Exhaust | Pilot Exhaust | DC |
| 5776920270 | M14x1,5 | M5 | 110 V |

| Part No. | Voltage tolerance | Power consumption |
|---|---|---|
| | DC | DC |
| 5776920270 | -30% / +30% | 6 W |

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

## Technical information

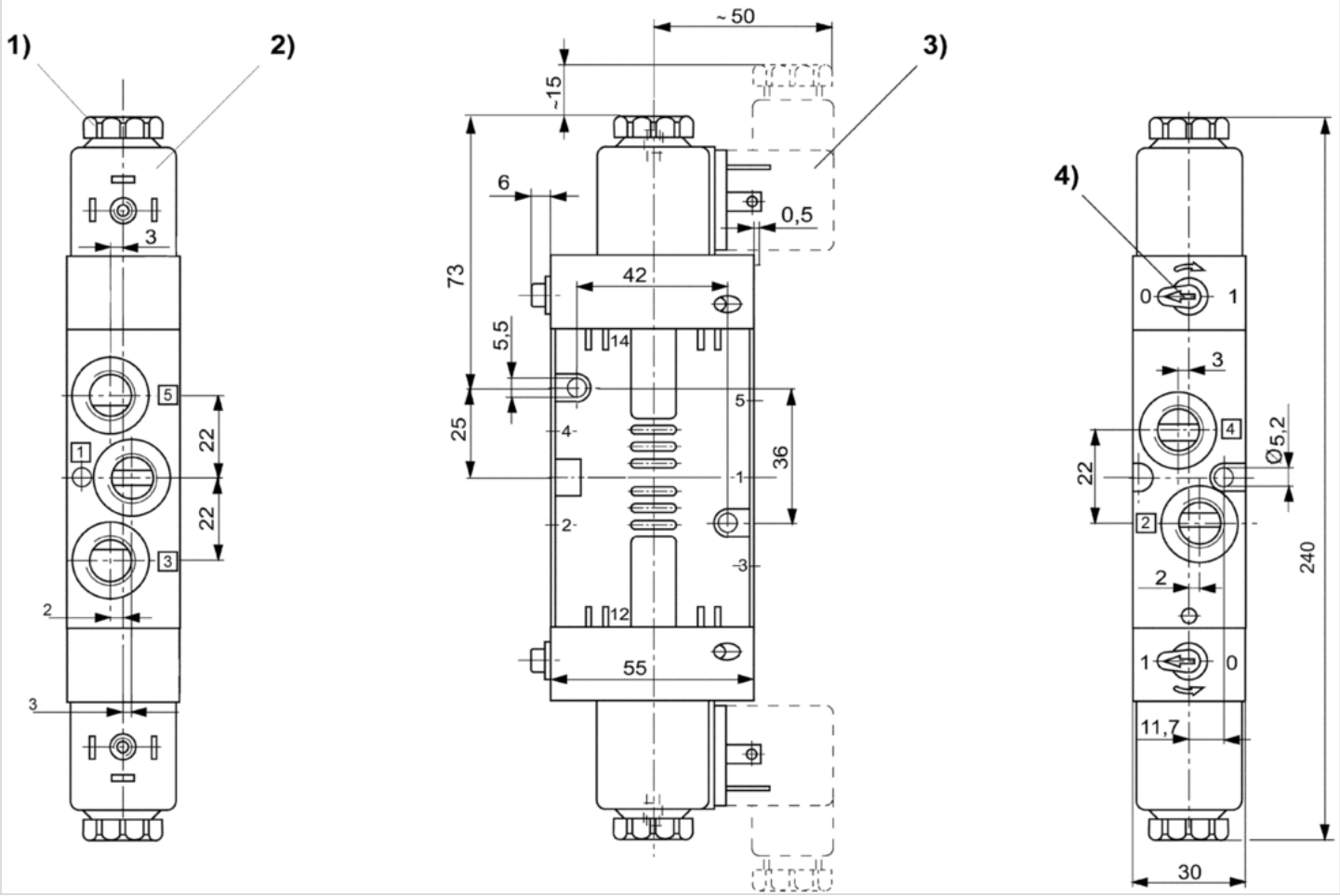
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Polyurethane |

# Dimensions

## Dimensions




1) After removal of cap M5 internal thread 2) Coil can be plugged at 45° intervals 3) Valve plug connector4) Manual override

# 5/2-directional valve, Series CD07

- Valves with Namur port as per VDI/VDE3845
- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : Namur base plate
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with 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. | 3 ... 10 bar |
| Control pressure min./max. | 3 ... 10 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/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Weight | See table below |

## Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776600220 | | | G 1/4 | Namur base plate |
| 5776605280 | | | G 1/4 | Namur base plate |
| 5776605302 | | | G 1/4 | Namur base plate |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Exhaust | Pilot Exhaust | DC |
| 5776600220 | G 1/4 | M5 | 24 V |
| 5776605280 | G 1/4 | M5 | - |
| 5776605302 | G 1/4 | M5 | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5776600220 | - | - | -10% / +10% | - |
| 5776605280 | 230 V | 230 V | - | -20% / +10% |
| 5776605302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776600220 | - | 2,1 W | - | - |
| 5776605280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5776605302 | - | - | - | - |

| Part No. | Switch-on power | Switch-on power | Typ. switch-on time | Typ. switch-off time |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | | |
| 5776600220 | - | - | 25 ms | 45 ms |
| 5776605280 | 6,9 VA | 5,8 VA | 25 ms | 45 ms |
| 5776605302 | - | - | - | - |

Nominal flow Qn 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).

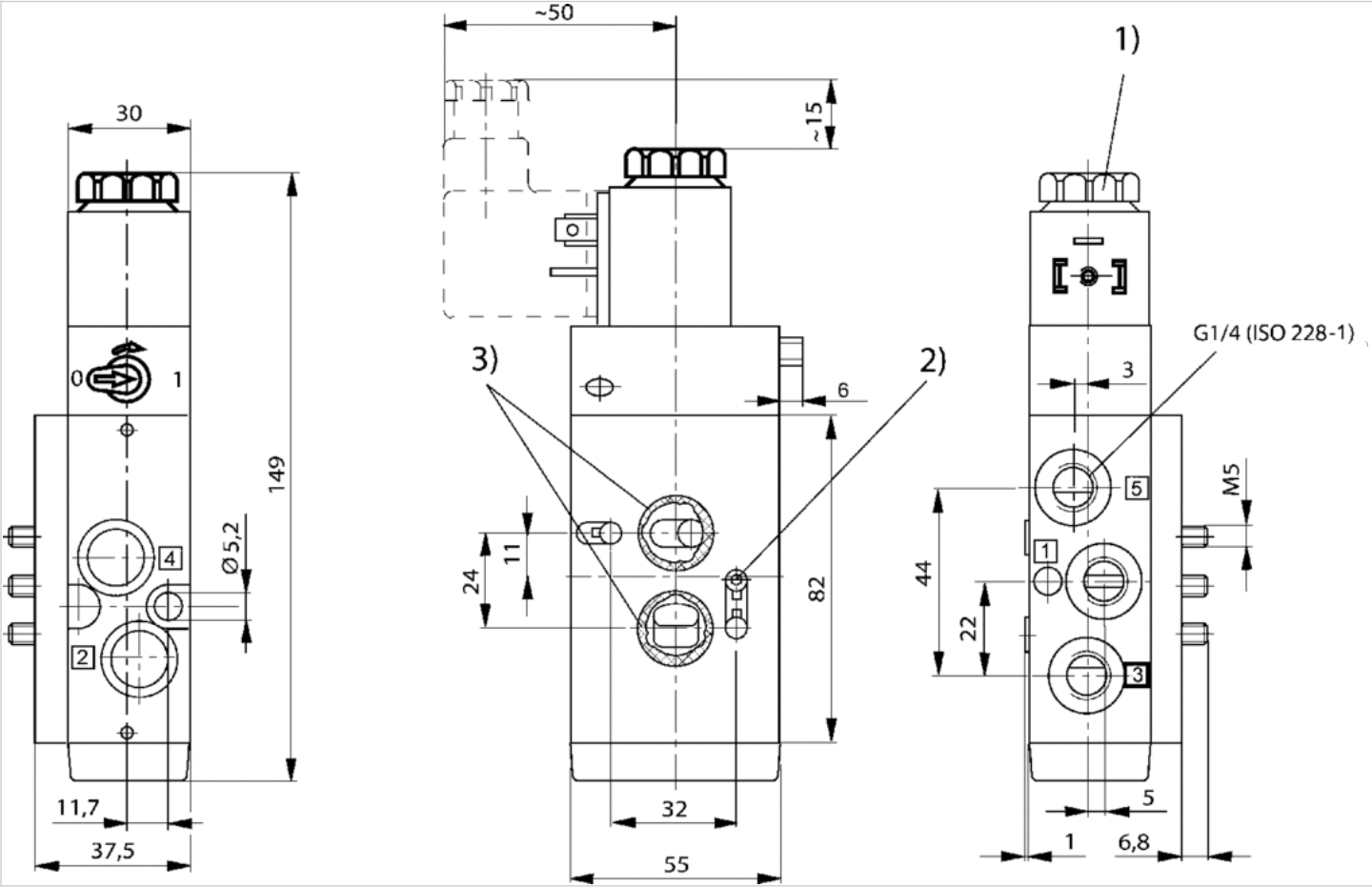
ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

## Technical information

| Material | |
|---|---|
| Housing | Polyamide, fiber-glass reinforced, Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

## Dimensions

### Dimensions




1) after removal of cap M 5 internal thread 2) threaded pin DIN 914 M5 x 20 3) O-ring 16 x 2 (included)

# 5/2-directional valve, Series CD07

- Valves with Namur port as per VDI/VDE3845
- Qn = 1200 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : Namur base plate
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- Double solenoid
- Pilot : internal

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Electrically |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 2 ... 10 bar |
| Control pressure min./max. | 2 ... 10 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/m³ |
| Nominal flow Qn | 1200 l/min |
| Nominal flow 1 ▸ 2 | 1200 l/min |
| Nominal flow 2 ▸ 3 | 1200 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 | 13, 14 |
| Duty cycle | 100 % |
| Weight | See table below |

## Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5776620220 | | | G 1/4 | Namur base plate |
| 5776625280 | | | G 1/4 | Namur base plate |
| 5776625302 | | | G 1/4 | Namur base plate |

| Part No. | Compressed air connection | Compressed air connection | Operationalvoltage |
|---|---|---|---|
| | Exhaust | Pilot Exhaust | DC |
| 5776620220 | G 1/4 | M5 | 24 V |
| 5776625280 | G 1/4 | M5 | - |
| 5776625302 | G 1/4 | M5 | - |

| Part No. | Operationalvoltage | Operationalvoltage | Voltage tolerance | Voltage tolerance |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| 5776620220 | - | - | -10% / +10% | - |
| 5776625280 | 230 V | 230 V | - | -20% / +10% |
| 5776625302 | - | - | - | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Holding power |
|---|---|---|---|---|
| | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz |
| 5776620220 | - | 2,1 W | - | - |
| 5776625280 | -10% / +20% | - | 4,8 VA | 4,1 VA |
| 5776625302 | - | - | - | - |

| Part No. | Switch-on power | Switch-on power | Typ. switch-on time | Typ. switch-off time |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | | |
| 5776620220 | - | - | 21 ms | 21 ms |
| 5776625280 | 6,9 VA | 5,8 VA | 21 ms | 21 ms |
| 5776625302 | - | - | - | - |

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

## Technical information

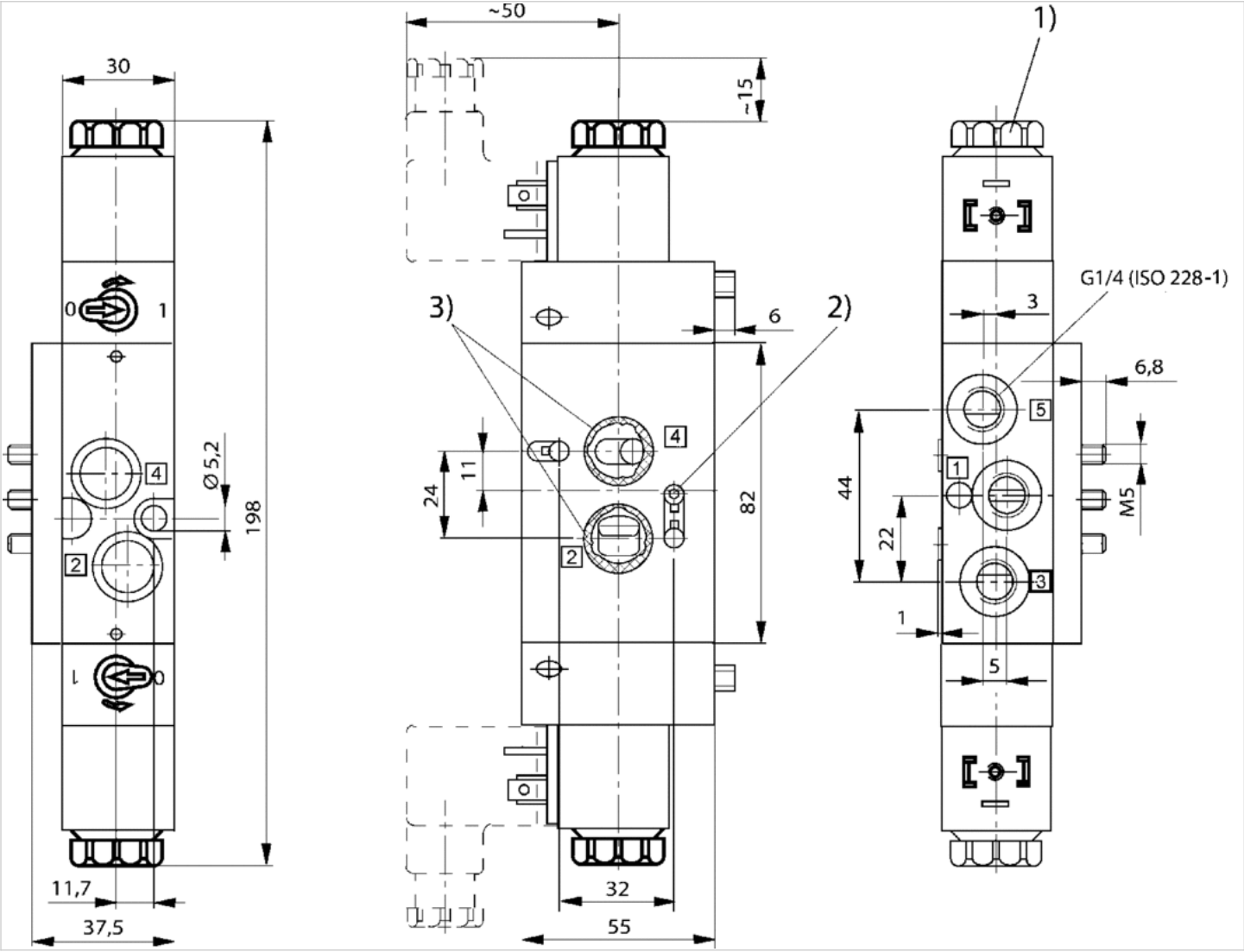
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions



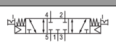

1) after removal of cap M 5 internal thread 2) threaded pin DIN 914 M5 x 20 3) O-ring 16 x 2 (included)

# 5/3-directional valve, Series CD07

- Valves with Namur port as per VDI/VDE3845
- Qn = 900 l/min
- Pilot valve width : 30 mm
- Pipe connection
- Compressed air connection output : Namur base plate
- Electrical connection : Plug, EN 175301-803, form A, 3-pin
- Manual override : with detent
- Double solenoid
- Pilot : internal
- ATEX optional

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Electrically |
| Pilot | internal |
| Sealing principle | Soft sealing |
| Working pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | 0 ... 50 °C |
| Medium temperature min./max. | 0 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Nominal flow Qn | 900 l/min |
| Nominal flow 1 ▸ 2 | See table below |
| Nominal flow 2 ▸ 3 | See table below |
| 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 | 13, 14 |
| Duty cycle | 100 % |

## Technical data

| Part No. | | MO | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| R412011157 |  | | G 1/4 | Namur base plate |
| R412011158 | | | G 1/4 | Namur base plate |
| R412011159 | | | G 1/4 | Namur base plate |

| Part No. | Compressed air connection | Compressed air connection | Nominal flow 1 ▸ 2 |
|---|---|---|---|
| | Exhaust | Pilot Exhaust | |
| R412011157 | G 1/4 | M5 | 1070 l/min |
| R412011158 | G 1/4 | M5 | 1030 l/min |
| R412011159 | G 1/4 | M5 | 960 l/min |

| Part No. | Nominal flow 2 ▸ 3 | basic valve with electrical connector | ATEX |
|---|---|---|---|
| R412011157 | 950 l/min | Basic valve without coil | ATEX optional |
| R412011158 | 880 l/min | Basic valve without coil | ATEX optional |

| Part No. | Nominal flow 2 ▸ 3 | basic valve with electrical connector | ATEX |
|---|---|---|---|
| R412011159 | 900 l/min | Basic valve without coil | ATEX optional |

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

## Technical information

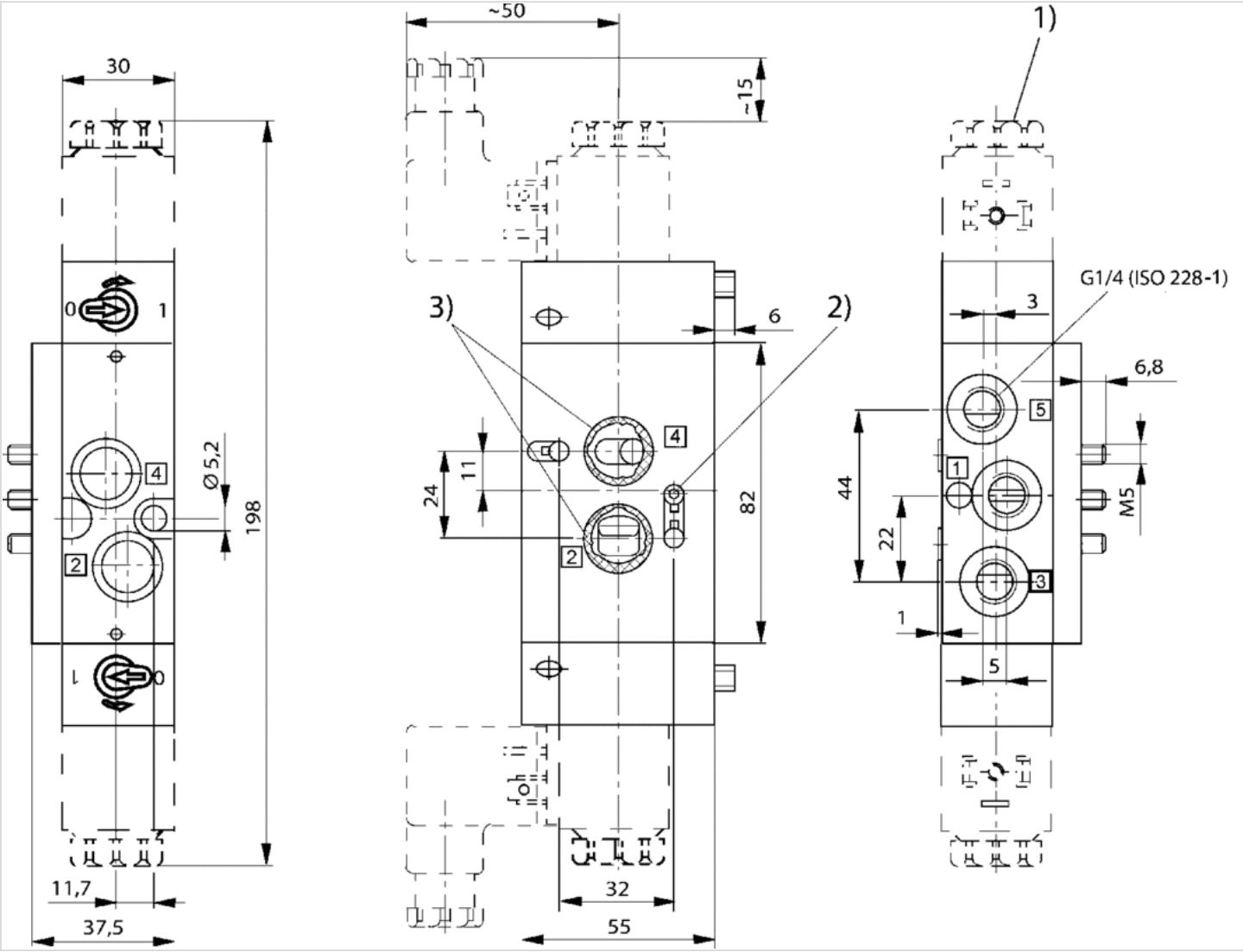
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

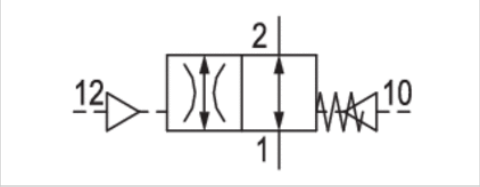
## Dimensions




1) after removal of cap M 5 internal thread 2) threaded pin DIN 914 M5 x 20 3) O-ring 16 x 2 (included)

# 2/2-directional valve, Series CD07

- Qn = 1400 l/min
- Qn 1▸2 = 1400 l/min
- Compressed air connection output M14x1,5
- Single air pilot, double air pilot
- Pipe connection
- suitable for ATEX




| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Flow rate value Qn | 1400 l/min |
| Flow rate value Qn 1▸2 | 1400 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | 2,5 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | 0,4 kg |

## Technical data

| Part No. | | Compressed air connection | Compressed air connection |
|---|---|---|---|
| | | Input | Output |
| 5710409000 | NO | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection |
|---|---|
| | Pilot control exhaust |
| 5710409000 | M10x1, M16x1 |

Nominal flow Qn at 6 bar and Δp = 1 bar, Nominal flow Qn (1▸2) can be throttled up to 100 l/min .

## Technical information

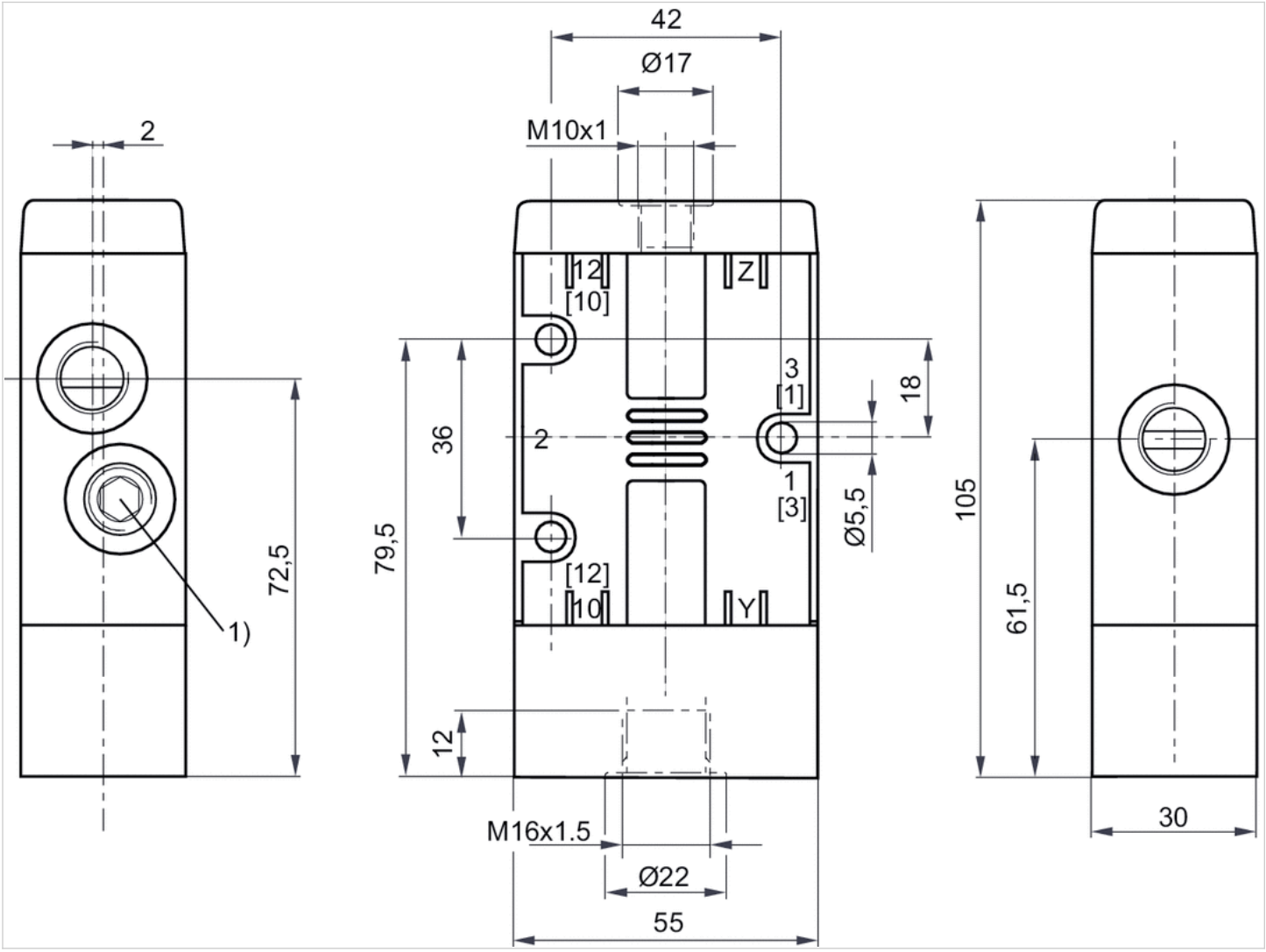
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

# Technical information

| Material | |
|---|---|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




1) Blanking screw

# 3/2-directional valve, Series CD07

- Qn = 1400 l/min
- Compressed air connection output G 1/4
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Flow rate value Qn | 1400 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | 0,4 kg |

## Technical data

| Part No. | | | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5710400100 | | NC, NO | G 1/4 | G 1/4 |
| 5710401100 | | NC, NO | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Control pressure min./max. |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | |
| 5710400100 | G 1/4 | G 1/8 | 3 ... 10 bar |
| 5710401100 | G 1/4 | G 1/8 | 2 ... 10 bar |

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).

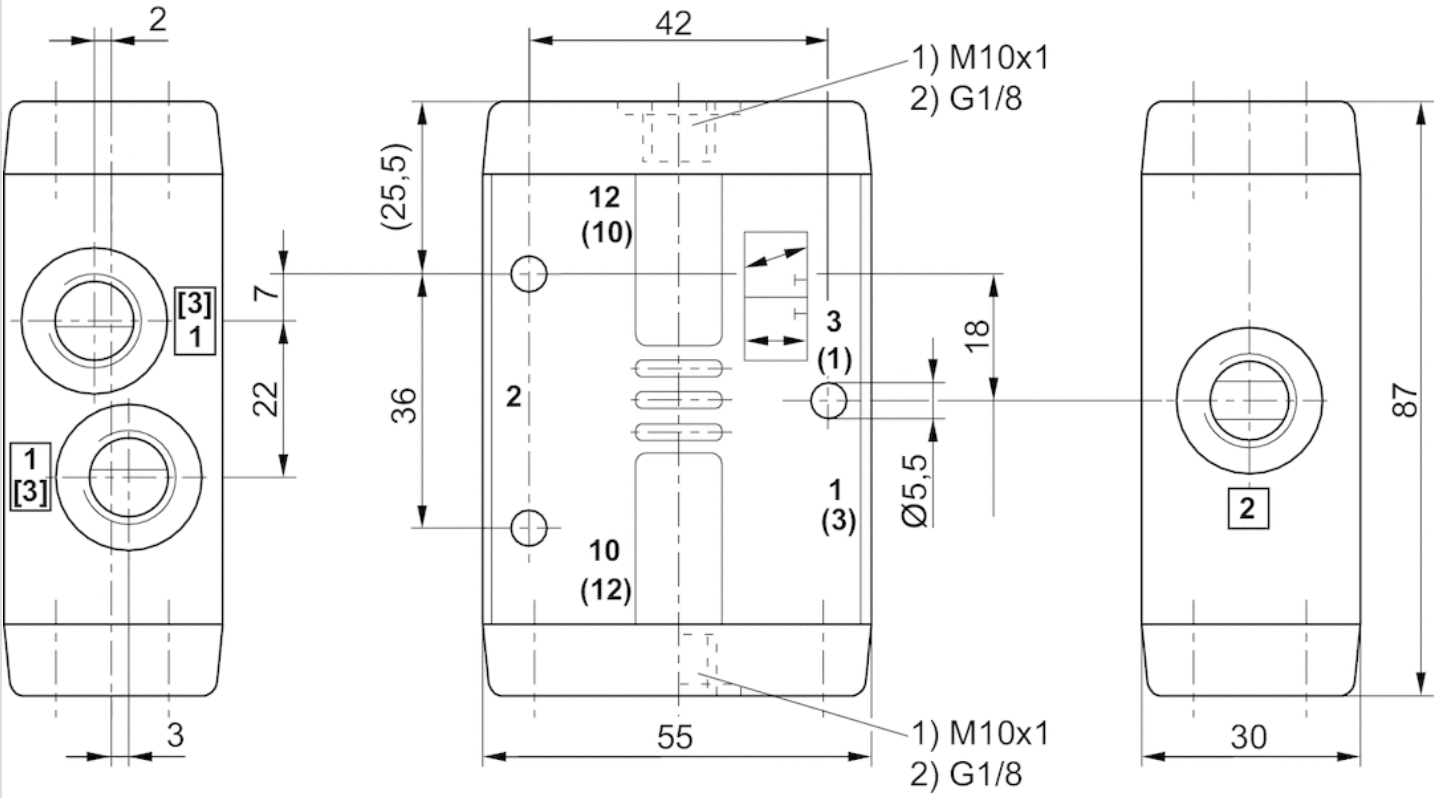
option valve: The input and output compressed air connections can be exchanged.The valve can thereby be used in the NC or NO operating mode.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions



# 3/2-directional valve, Series CD07

- Qn = 1400 l/min
- Compressed air connection output M14x1,5
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Flow rate value Qn | 1400 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| 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 |
| Weight | 0,4 kg |

## Technical data

| Part No. | | | Compressed air connection | Compressed air connection |
|---|---|---|---|---|
| | | | Input | Output |
| 5710400000 | | NC, NO | M14x1,5 | M14x1,5 |
| 5710400090 | | NC, NO | M14x1,5 | M14x1,5 |
| 5710401000 | | NC, NO | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection | Control pressure min./max. |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | |
| 5710400000 | M14x1,5 | M10x1 | 3 ... 10 bar |
| 5710400090 | M14x1,5 | M10x1 | 4 ... 10 bar |
| 5710401000 | M14x1,5 | M10x1 | 2 ... 10 bar |

| Part No. | Ambient temperature min./max. | Medium temperature min./max. | |
|---|---|---|---|
| 5710400000 | -25 ... 80 °C | -25 ... 80 °C | - |
| 5710400090 | -35 ... 80 °C | -35 ... 80 °C | 1) |
| 5710401000 | -25 ... 80 °C | -25 ... 80 °C | - |

Nominal flow Qn at 6 bar and Δp = 1 bar

1) cold-resistant

## 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).

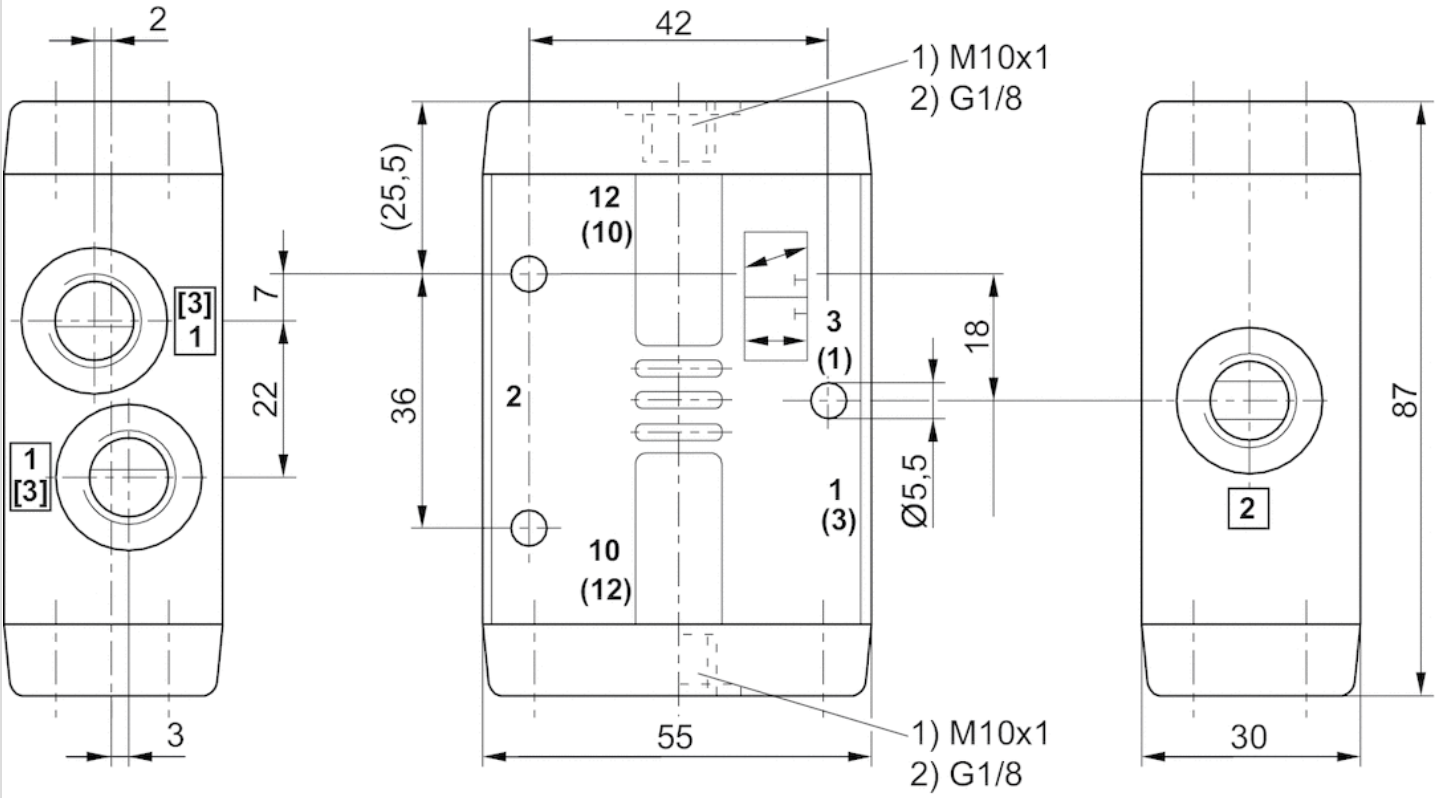
option valve: The input and output compressed air connections can be exchanged.The valve can thereby be used in the NC or NO operating mode.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

## Dimensions

### Dimensions



# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output G 1/4
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Compressed air connection | according to ISO 228-1 |
| Flow rate value Qn | 1200 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,5 kg |

## Technical data

| Part No. | | Compressed air connection | Compressed air connection |
|---|---|---|---|
| | | Input | Output |
| 5710500100 | | G 1/4 | G 1/4 |
| 5710501100 | | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Control pressure min./max. |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | |
| 5710500100 | G 1/4 | G 1/8 | 3 ... 10 bar |
| 5710501100 | G 1/4 | G 1/8 | 2 ... 10 bar |

Nominal flow Qn at 6 bar and Δp = 1 bar, Protected against dust

## Technical information

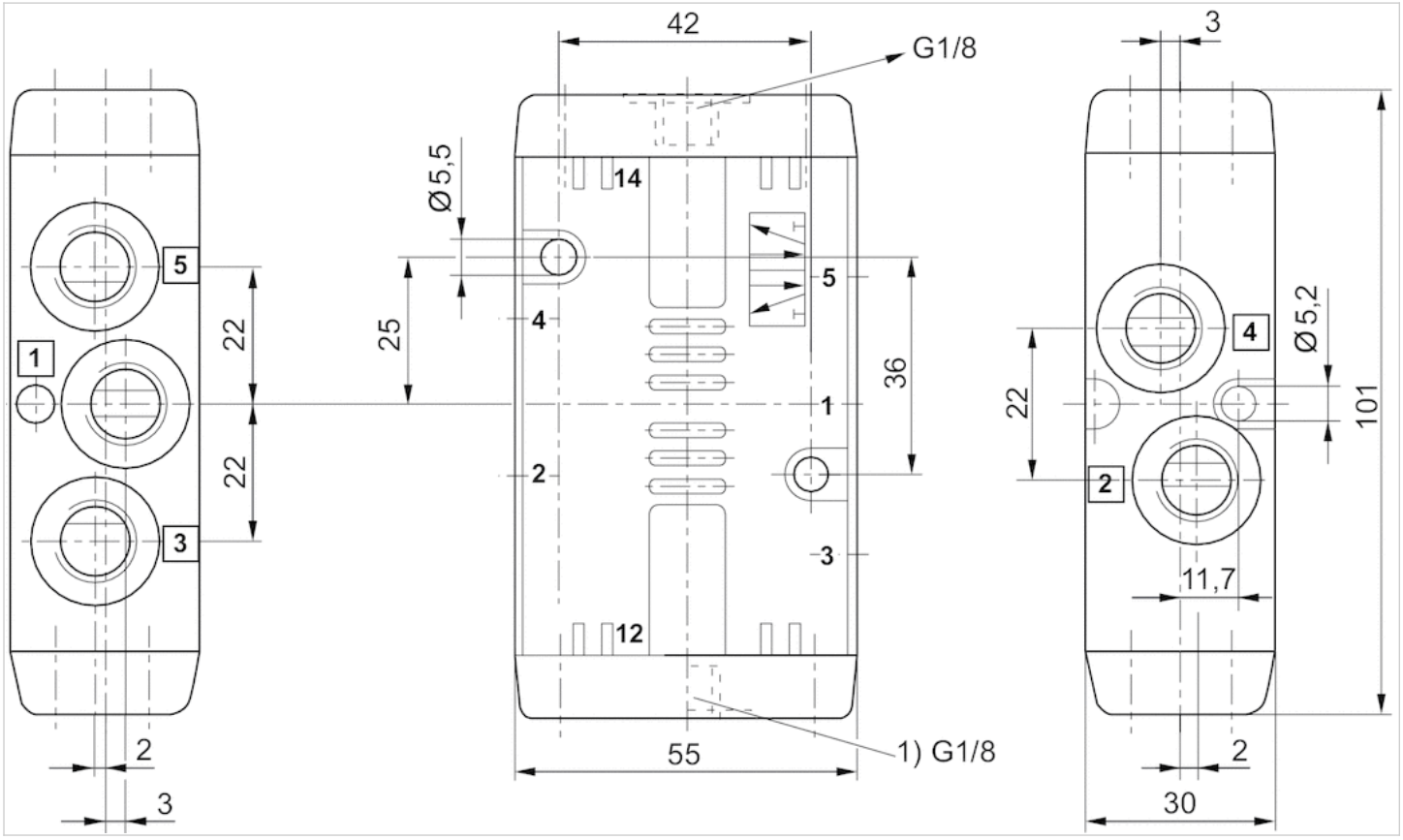
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




1) Part No.: 5710501100

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output M14x1,5
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Flow rate value Qn | 1200 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,5 kg |

## Technical data

| Part No. | | Compressed air connection | Compressed air connection |
|---|---|---|---|
| | | Input | Output |
| 5710500000 | | M14x1,5 | M14x1,5 |
| 5710509300 | | M14x1,5 | M14x1,5 |
| 5710501000 | | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection | Control pressure min./max. |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | |
| 5710500000 | M14x1,5 | M10x1 | 3 ... 10 bar |
| 5710509300 | M14x1,5 | M10x1 | 3 ... 10 bar |
| 5710501000 | M14x1,5 | M10x1 | 2 ... 10 bar |

| Part No. | |
|---|---|
| 5710500000 | - |
| 5710509300 | 1) |
| 5710501000 | - |

Nominal flow Qn at 6 bar and Δp = 1 bar

1) Protected against dust

## Technical information

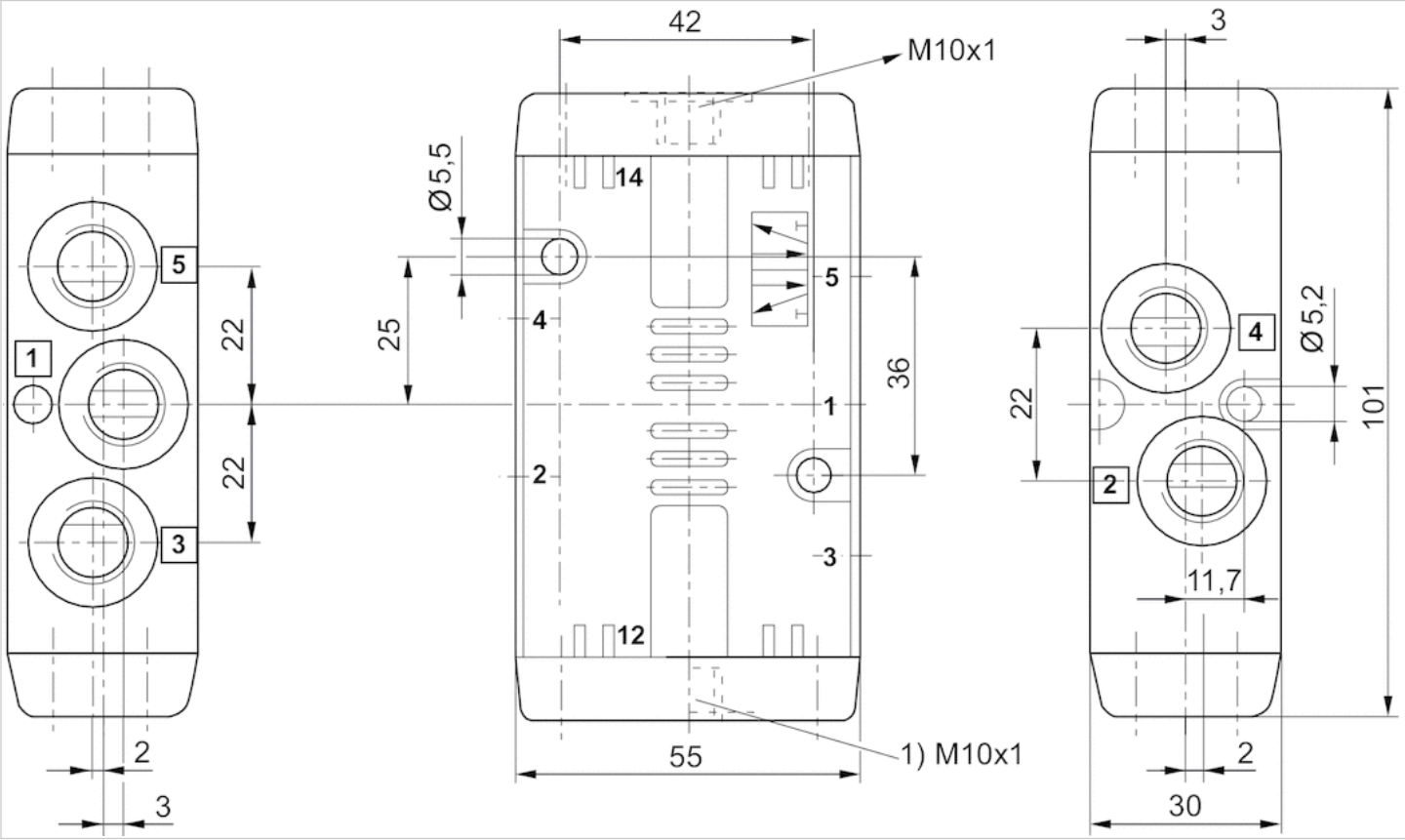
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |

## Dimensions

### Dimensions




1) Part No.: 5710501000

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output G 1/4
- Pipe connection
- cold-resistant
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Compressed air connection | according to ISO 228-1 |
| Flow rate value Qn | 1200 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -40 ... 70 °C |
| Medium temperature min./max. | -40 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 0,5 kg |

## Technical data

| Part No. | | Compressed air connection | Compressed air connection |
|---|---|---|---|
| | | Input | Output |
| 5710500190 | | G 1/4 | G 1/4 |
| 5710501190 | | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Control pressure min./max. |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | |
| 5710500190 | G 1/4 | G 1/8 | 3,5 ... 10 bar |
| 5710501190 | G 1/4 | G 1/8 | 3 ... 10 bar |

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

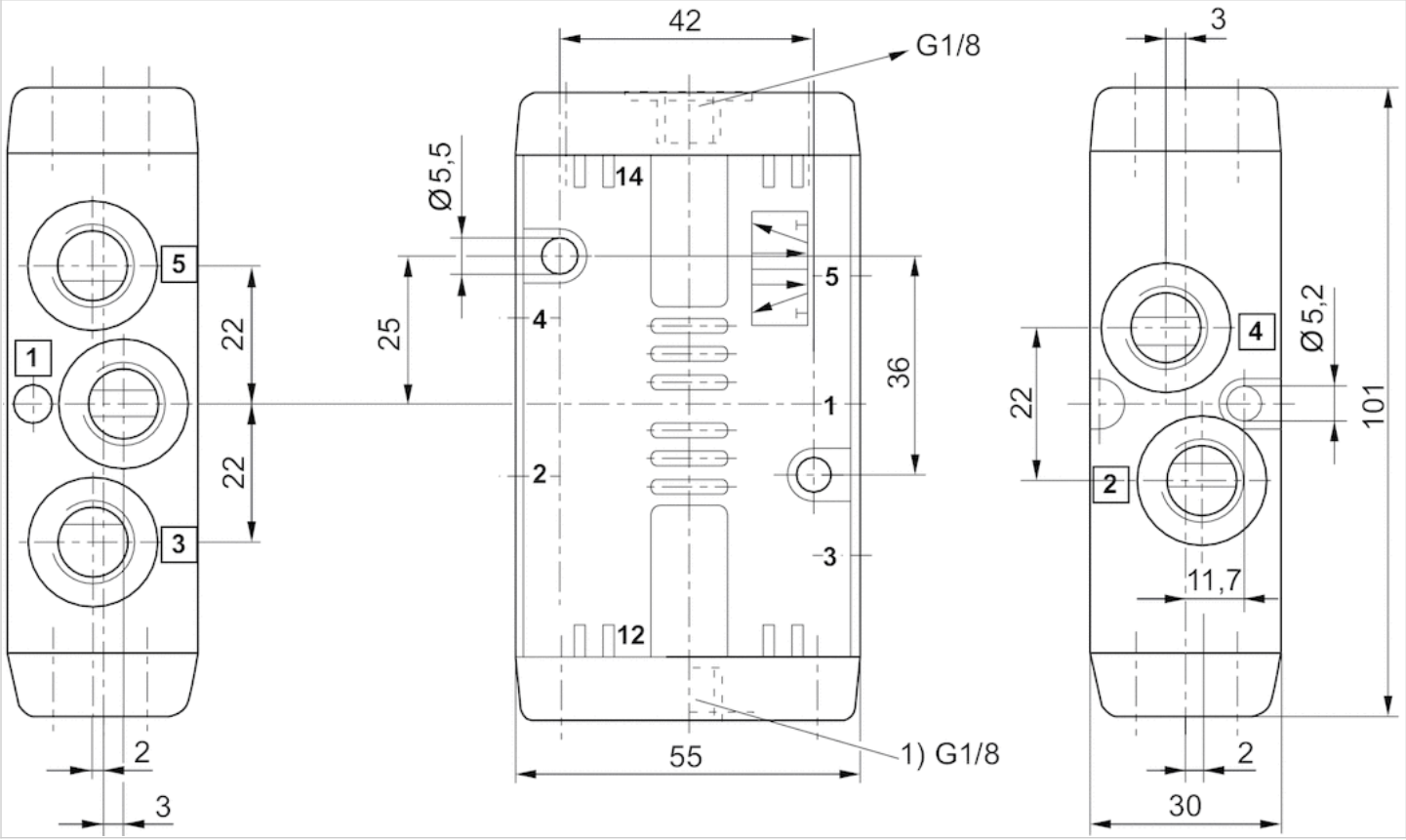
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc |
| Seals | Acrylonitrile butadiene rubber, Polyurethane |

# Dimensions

## Dimensions




1) Part No.: 5710501190

# 5/3-directional valve, Series CD07

- Qn = 900 l/min
- Qn 1▸2 = 960-1070 l/min
- Qn 2▸3 = 880-950 l/min
- Compressed air connection output G 1/4
- double air pilot
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Compressed air connection | according to ISO 228-1 |
| Flow rate value Qn | 900 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 1,15 kg |

## Technical data

| Part No. | | | Compressed air connection |
|---|---|---|---|
| | | | Input |
| 5710502100 | | pressurized center | G 1/4 |
| 5710502110 | | exhausted center | G 1/4 |
| 5710502120 | | closed center | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Output | Exhaust |
| 5710502100 | G 1/4 | G 1/4 |
| 5710502110 | G 1/4 | G 1/4 |
| 5710502120 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Flow | Flow |
|---|---|---|---|
| | Pilot control exhaust | Qn 1▸2 | Qn 2▸3 |
| 5710502100 | G 1/8 | 960 l/min | - |
| 5710502110 | G 1/8 | 1030 l/min | 880 l/min |
| 5710502120 | G 1/8 | 1070 l/min | 950 l/min |

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

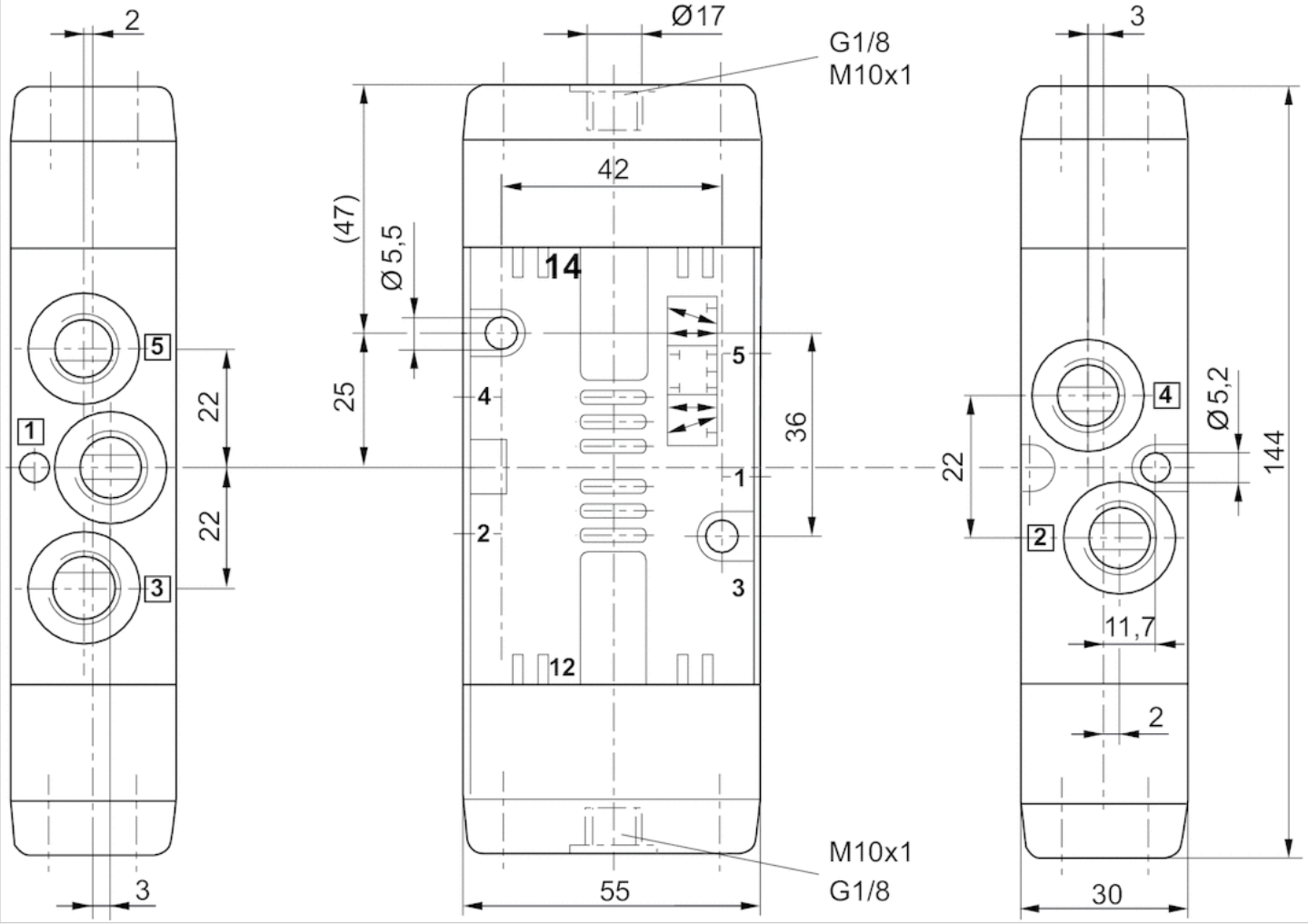
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

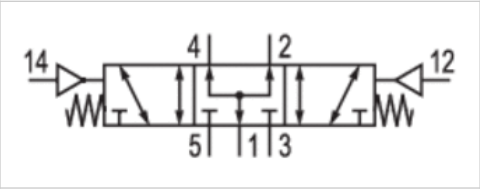
## Dimensions

### Dimensions



# 5/3-directional valve, Series CD07

- Qn 1▸2 = 960 l/min
- Qn 2▸3 = 900 l/min
- Compressed air connection output M14x1,5
- double air pilot
- Pipe connection
- suitable for ATEX




| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Pneumatically |
| Sealing principle | Soft sealing |
| Flow rate value Qn 1▸2 | 960 l/min |
| Flow rate value Qn 2▸3 | 900 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Mounting on manifold strip | P-strip, PRS strip |
| Weight | 1,15 kg |

## Technical data

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Input | Output |
| R412008118 | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Exhaust | Pilot control exhaust |
| R412008118 | M14x1,5 | M10x1 |

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

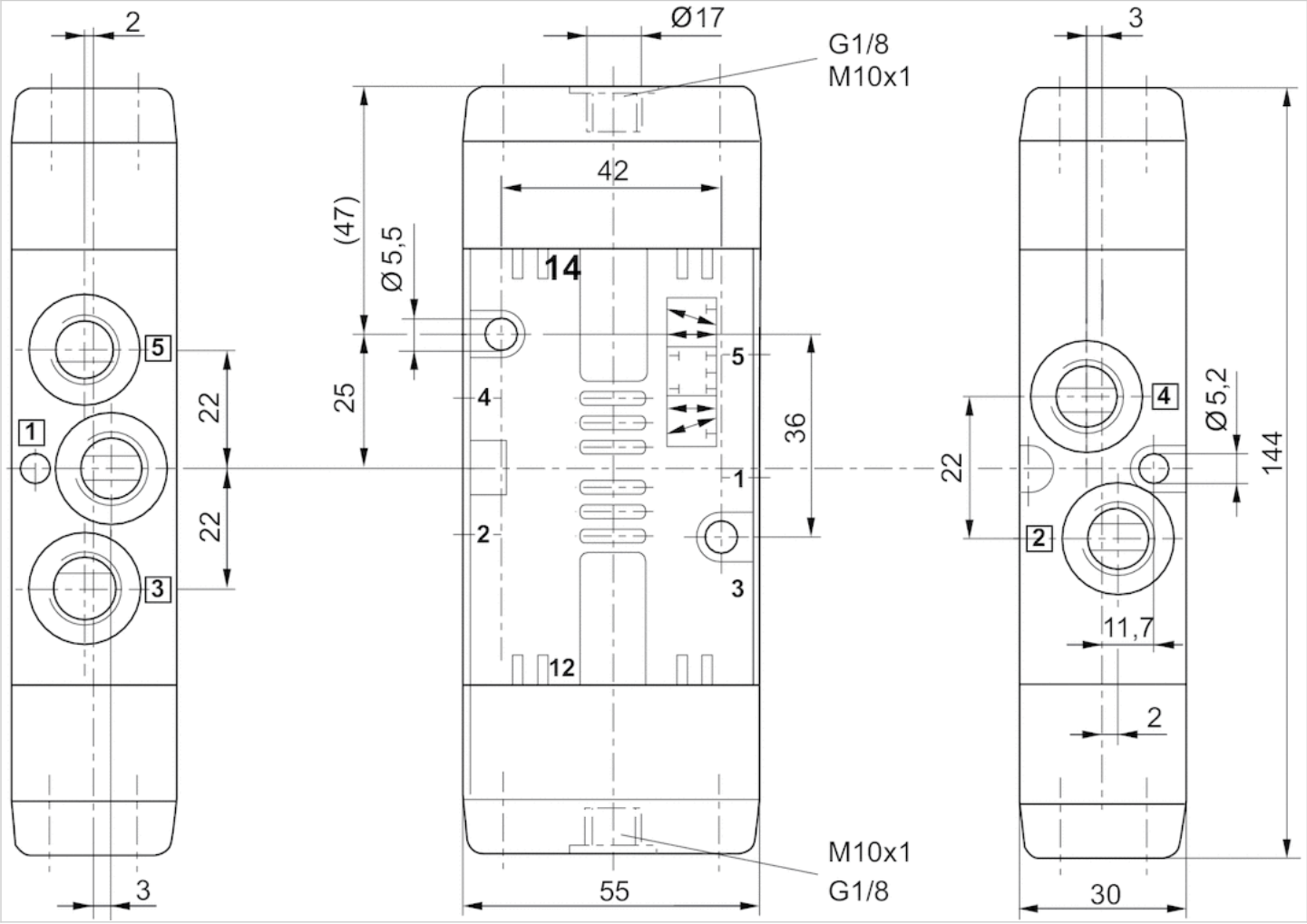
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

## Dimensions

### Dimensions



# 3/2-directional valve, Series CD07

- Qn = 1400 l/min
- Compressed air connection output G 1/4
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Mechanical |
| Switching principle | 3/2 |
| Sealing principle | Soft sealing |
| Nominal flow Qn | 1400 l/min |
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | See table below |

## Technical data

| Part No. | | Actuating element | Version |
|---|---|---|---|
| 5634400100 | | Plunger | NC, NO |
| 5634409010 | | Plunger | - |
| 5634410100 | | Roller | NC, NO |
| 5634411100 | | Roller | - |
| 5634430100 | | Hand lever, with detent, without detent | NC, NO |
| 5634440100 | | Hand lever | NC, NO |
| 5634450100 | | Lever, horizontal, with detent | NC, NO |
| 5634460100 | | Button | NC, NO |
| 5634461100 | | Button | NC, NO |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Input | Output |
| 5634400100 | G 1/4 | G 1/4 |
| 5634409010 | G 1/4 | G 1/4 |
| 5634410100 | G 1/4 | G 1/4 |
| 5634411100 | G 1/4 | G 1/4 |
| 5634430100 | G 1/4 | G 1/4 |
| 5634440100 | G 1/4 | G 1/4 |
| 5634450100 | G 1/4 | G 1/4 |
| 5634460100 | G 1/4 | G 1/4 |
| 5634461100 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Operating force |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | min. |
| 5634400100 | G 1/4 | - | 70 N |
| 5634409010 | G 1/4 | - | 40 N |

| Part No. | Compressed air connection | Compressed air connection | Operating force |
|---|---|---|---|
| | Exhaust | Pilot control exhaust | min. |
| 5634410100 | G 1/4 | - | 40 N |
| 5634411100 | G 1/4 | G 1/8 | 40 N |
| 5634430100 | G 1/4 | - | 20 N |
| 5634440100 | G 1/4 | - | 15 N |
| 5634450100 | G 1/4 | - | 15 N |
| 5634460100 | G 1/4 | - | 70 N |
| 5634461100 | G 1/4 | G 1/8 | 40 N |

| Part No. | Control pressure min./max. | Housing material |
|---|---|---|
| 5634400100 | - | Die cast zinc, Polyamide, fiber-glass reinforced |
| 5634409010 | - | Die cast zinc |
| 5634410100 | - | Die cast zinc, Polyamide, fiber-glass reinforced |
| 5634411100 | 2 ... 10 bar | Die cast zinc |
| 5634430100 | - | Die cast zinc, Polyamide, fiber-glass reinforced |
| 5634440100 | - | Die cast zinc, Polyamide, fiber-glass reinforced |
| 5634450100 | - | Die cast zinc, Polyamide, fiber-glass reinforced |
| 5634460100 | - | Die cast zinc, Polyamide, fiber-glass reinforced |
| 5634461100 | 2 ... 10 bar | Die cast zinc, Polyamide, fiber-glass reinforced |

| Part No. | Material actuating control | Weight | Fig. |
|---|---|---|---|
| 5634400100 | Stainless steel | 0,45 kg | Fig. 1 |
| 5634409010 | Stainless steel | 0,45 kg | Fig. 2 |
| 5634410100 | Stainless steel | 0,5 kg | Fig. 3 |
| 5634411100 | Stainless steel | 0,5 kg | Fig. 4 |
| 5634430100 | Polyoxymethylene | 0,53 kg | Fig. 5 |
| 5634440100 | Polyoxymethylene | 0,5 kg | Fig. 6 |
| 5634450100 | Polyoxymethylene | 0,55 kg | Fig. 7 |
| 5634460100 | Polyoxymethylene | 0,45 kg | Fig. 8 |
| 5634461100 | Polyoxymethylene | 0,45 kg | Fig. 8 |

Nominal flow Qn at 6 bar and Δp = 1 bar

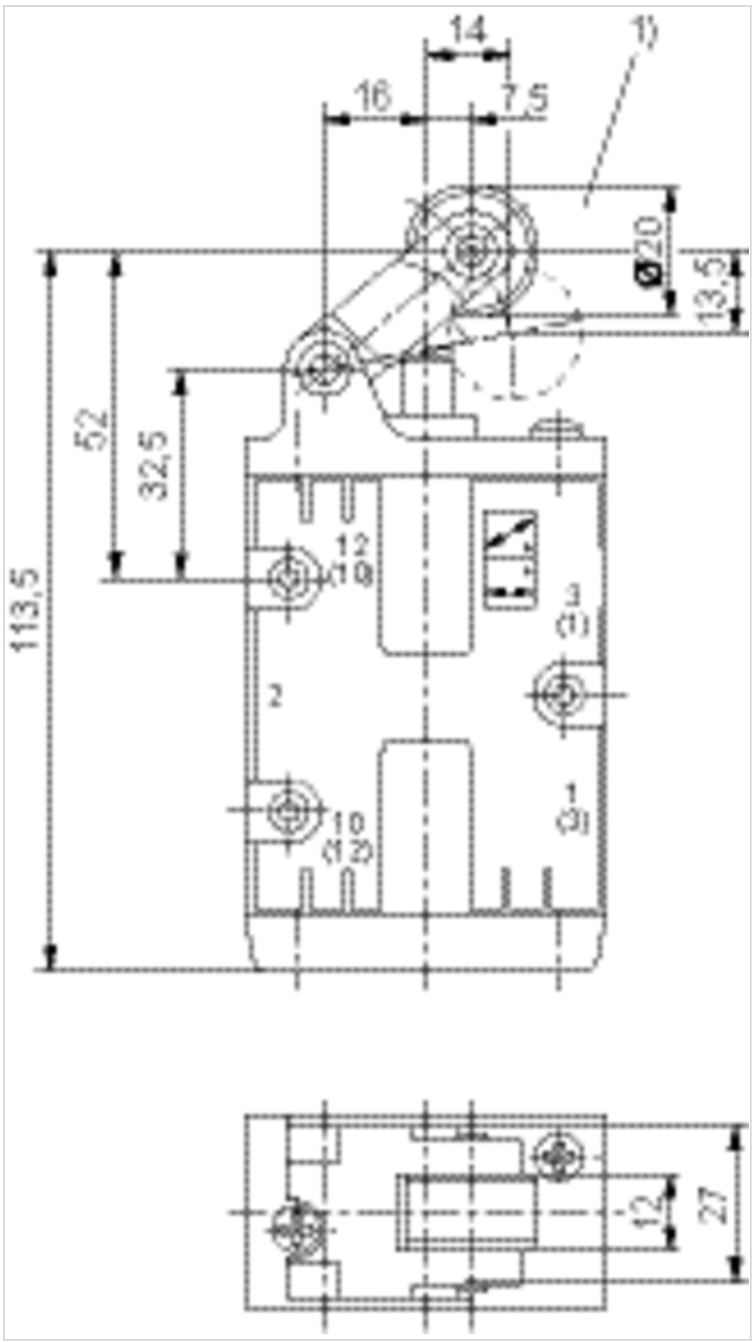
## Technical information

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.

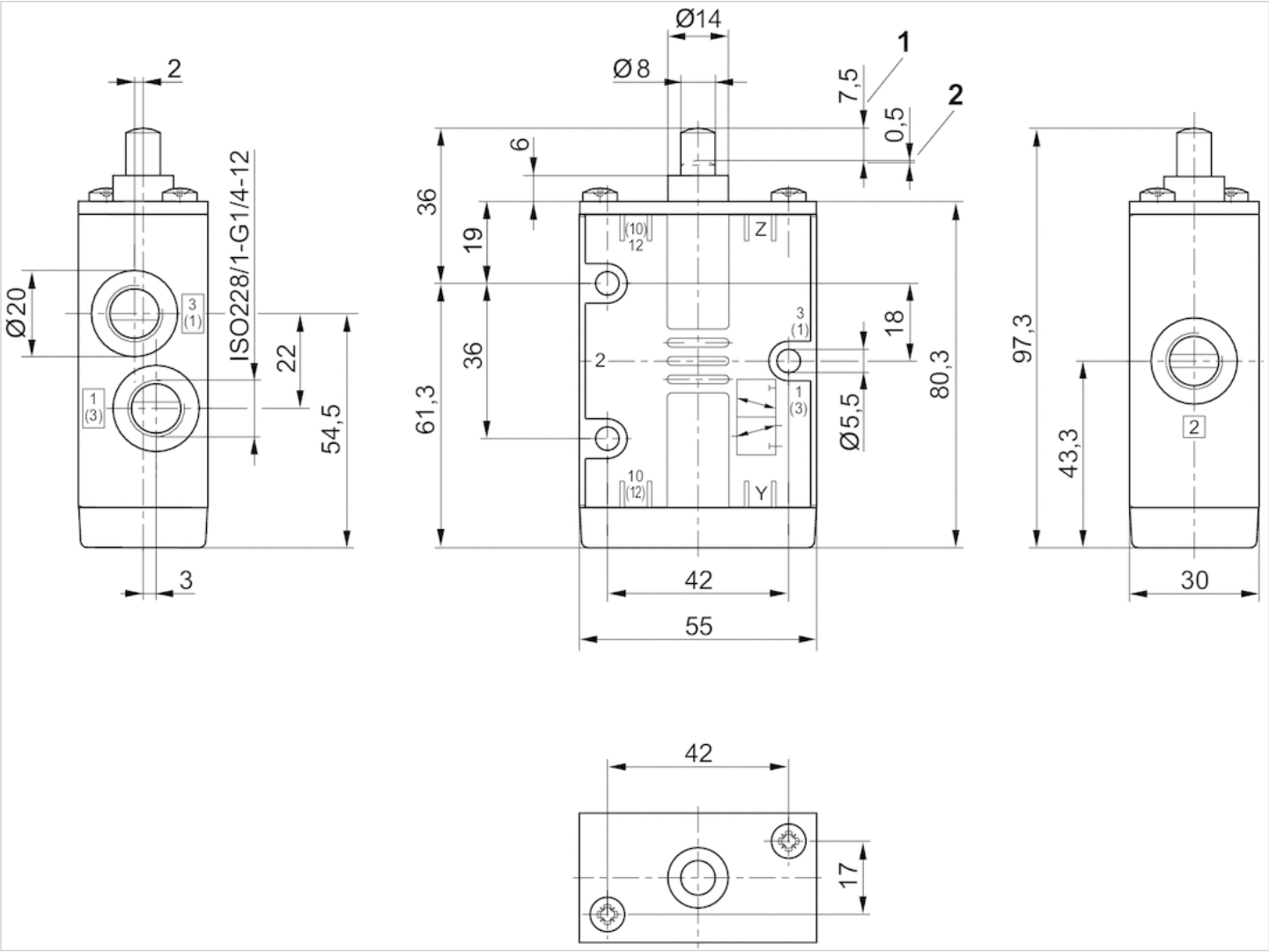
## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced, Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |
| Actuating element | Stainless steel, Polyoxymethylene |

## Dimensions

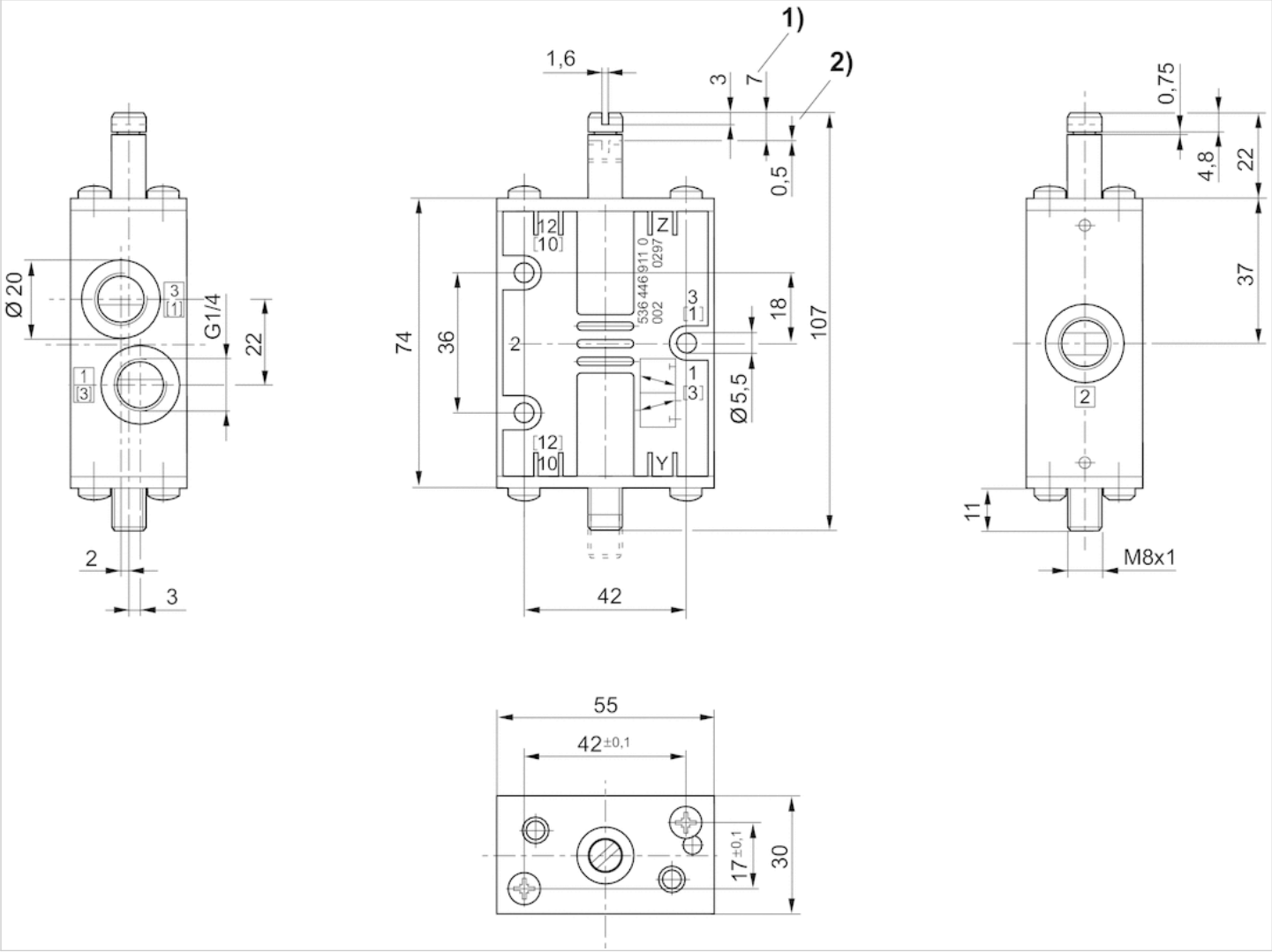


## Dimensions Fig. 1



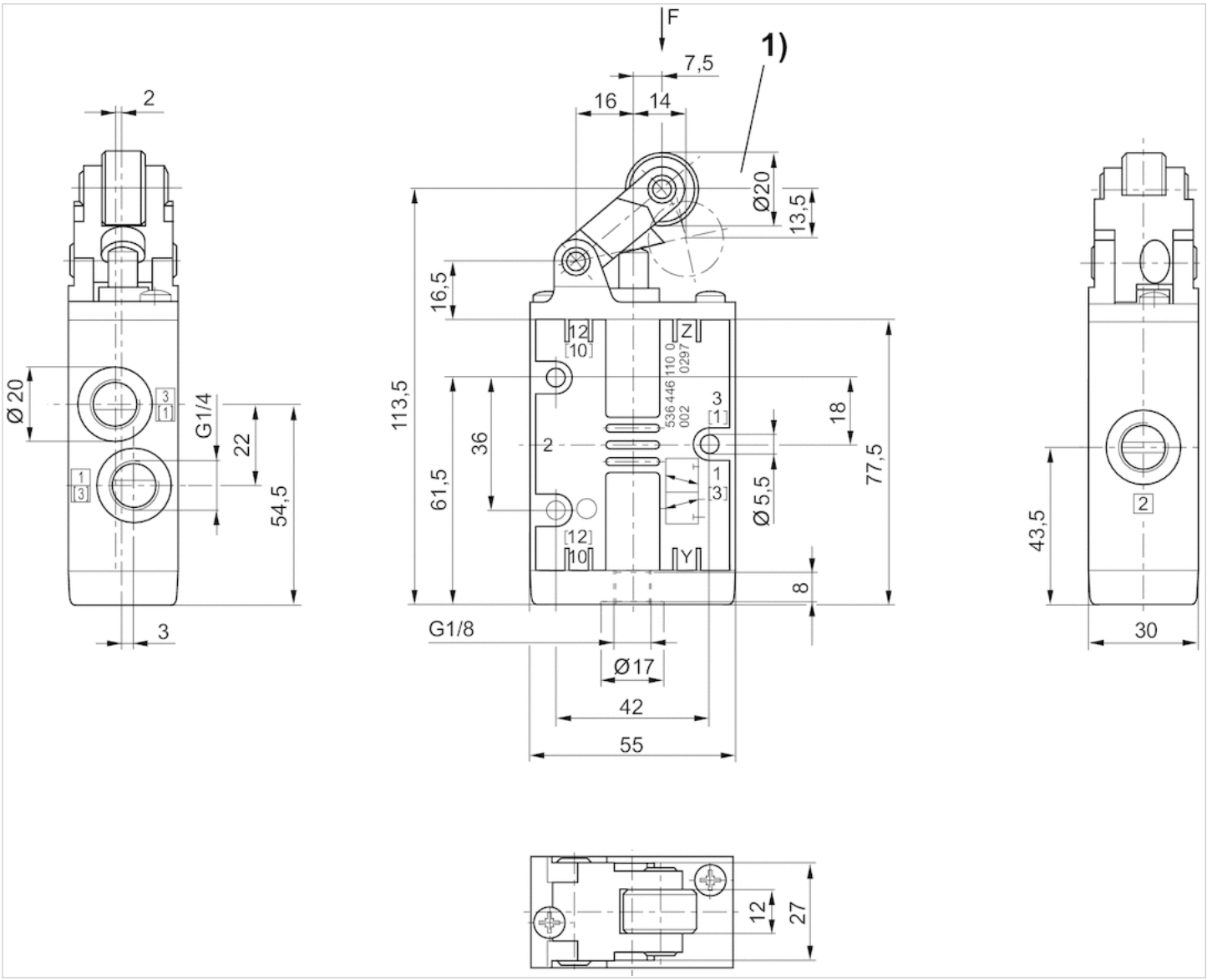

1) Stroke 2) Overstroke

## Dimensions Fig. 2



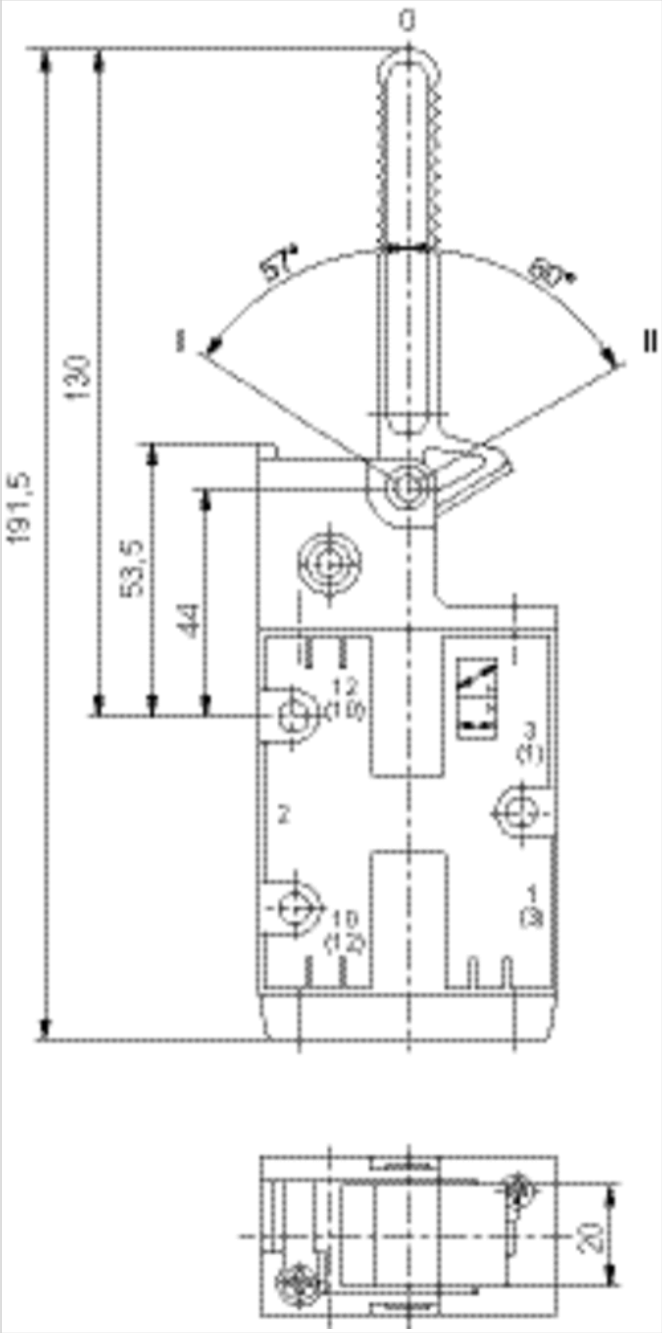

1) Stroke 2) Overstroke

## Dimensions Fig. 4



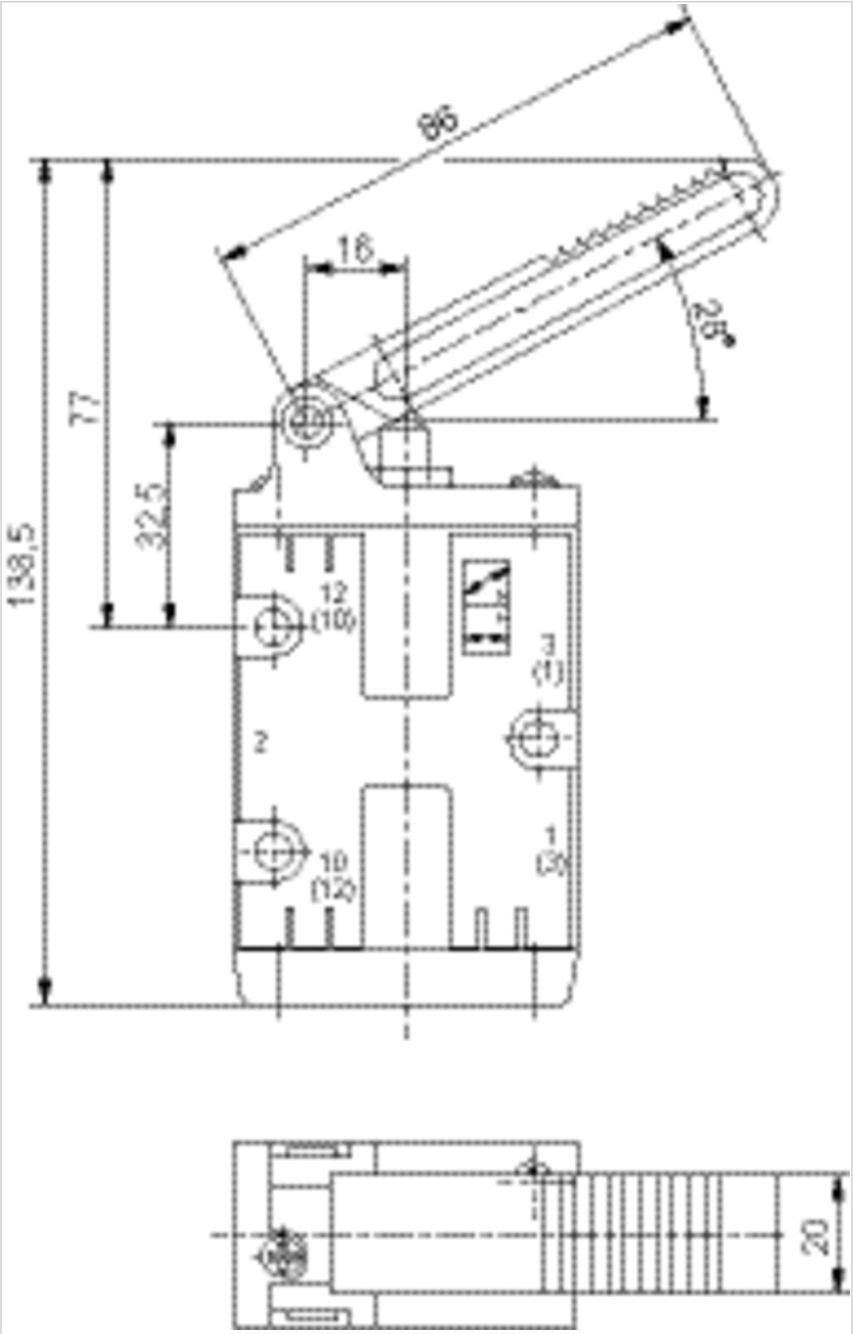

1) approach angle of rollers max. 30°

## Dimensions Fig. 5



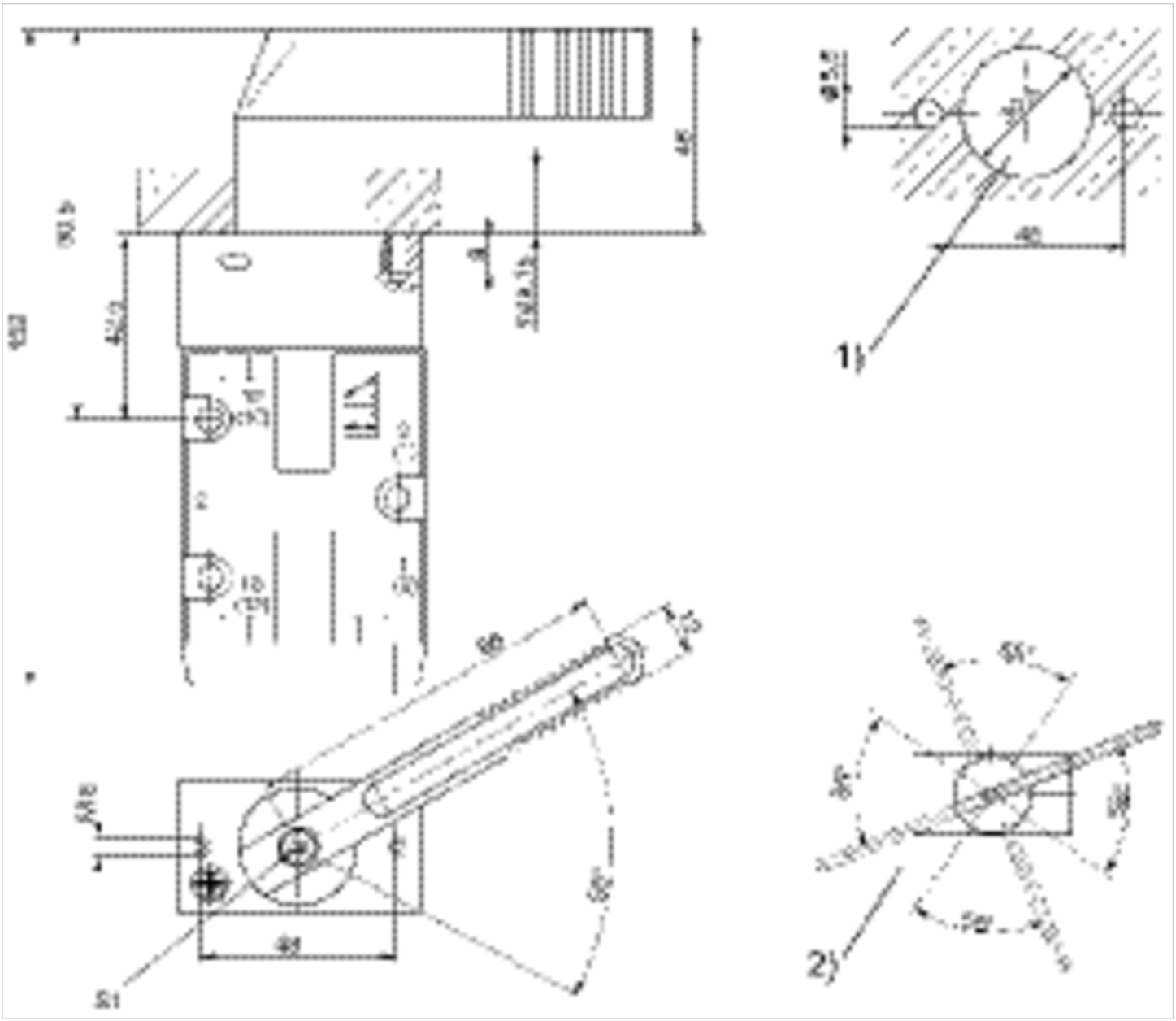

Position 0: initial position, position I: with detent; manual return, position II: automatic spring return.

## Dimensions Fig. 6



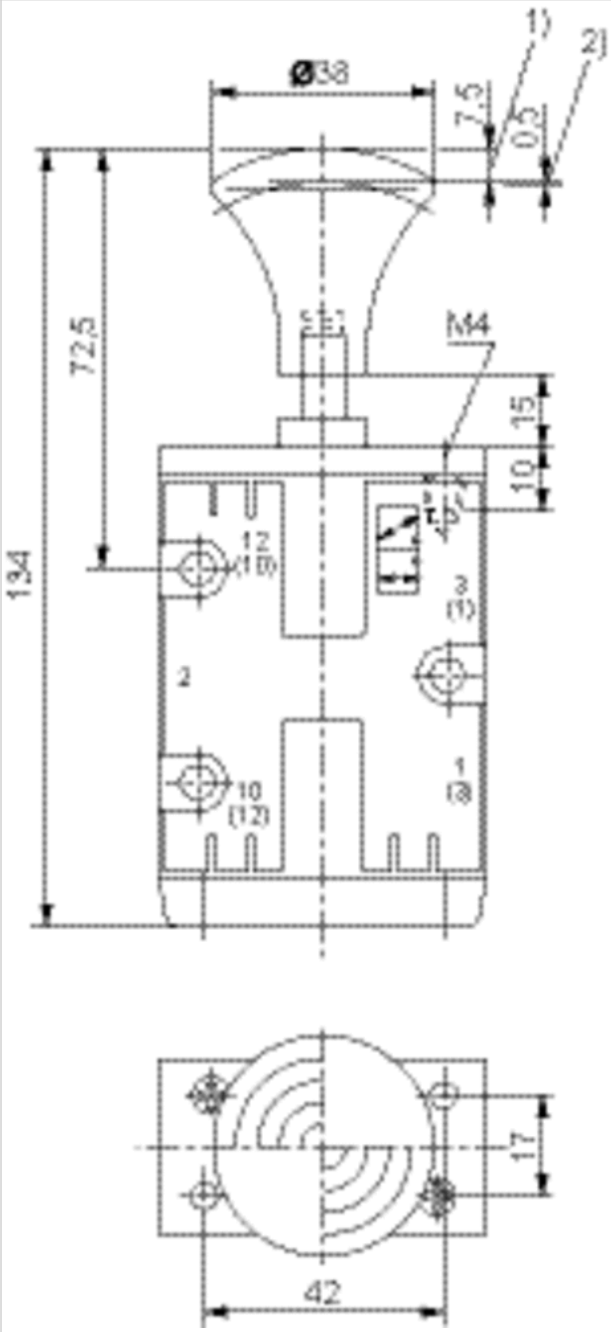

Dimensions of basic valve apply to all types of actuation.

## Dimensions Fig. 7




1) control panel installation (holes in mounting panel)2) possible lever positions (basic position of hand lever adjustable in 90° steps after loosening screw ”S1”).

## Dimensions Fig. 8




1) Stroke 2) Overstroke

# 3/2-directional valve, Series CD07

- Qn = 1400 l/min
- Compressed air connection output M14x1,5
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Mechanical |
| Switching principle | 3/2 |
| Sealing principle | Soft sealing |
| Nominal flow Qn | 1400 l/min |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | 0,45 kg |

## Technical data

| Part No. | | Actuating element | Compressed air connection |
|---|---|---|---|
| | | | Input |
| 5634400000 | | Plunger | M14x1,5 |
| 5634410000 | | Roller | M14x1,5 |
| 5634460000 | | Button | M14x1,5 |
| 5634461000 | | Button | M14x1,5 |
| 5634469110 | | Button | M14x1,5 |
| 5634469310 | | Button, beige | M14x1,5 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Output | Exhaust |
| 5634400000 | M14x1,5 | M14x1,5 |
| 5634410000 | M14x1,5 | M14x1,5 |
| 5634460000 | M14x1,5 | M14x1,5 |
| 5634461000 | M14x1,5 | M14x1,5 |
| 5634469110 | M14x1,5 | M14x1,5 |
| 5634469310 | M14x1,5 | M14x1,5 |

| Part No. | Compressed air connection | Operating force | Control pressure min./max. |
|---|---|---|---|
| | Pilot control exhaust | min. | |
| 5634400000 | - | 70 N | - |
| 5634410000 | - | 40 N | - |
| 5634460000 | - | 70 N | - |
| 5634461000 | M10x1 | 40 N | 2 ... 10 bar |
| 5634469110 | M12x1,5 | 40 N | 5 ... 10 bar |
| 5634469310 | M10x1 | 40 N | 3 ... 10 bar |

| Part No. | Housing material | Material actuating control | Fig. |
|---|---|---|---|
| 5634400000 | Die cast zinc, Polyamide, fiber-glass reinforced | Stainless steel | Fig. 1 |
| 5634410000 | Die cast zinc, Polyamide, fiber-glass reinforced | Stainless steel | Fig. 2 |
| 5634460000 | Die cast zinc, Polyamide, fiber-glass reinforced | Polyoxymethylene | Fig. 3 |
| 5634461000 | Die cast zinc | Polyoxymethylene | Fig. 3 |
| 5634469110 | Die cast zinc | Polyoxymethylene | Fig. 4 |
| 5634469310 | Die cast zinc | Polyoxymethylene | Fig. 5 |

Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

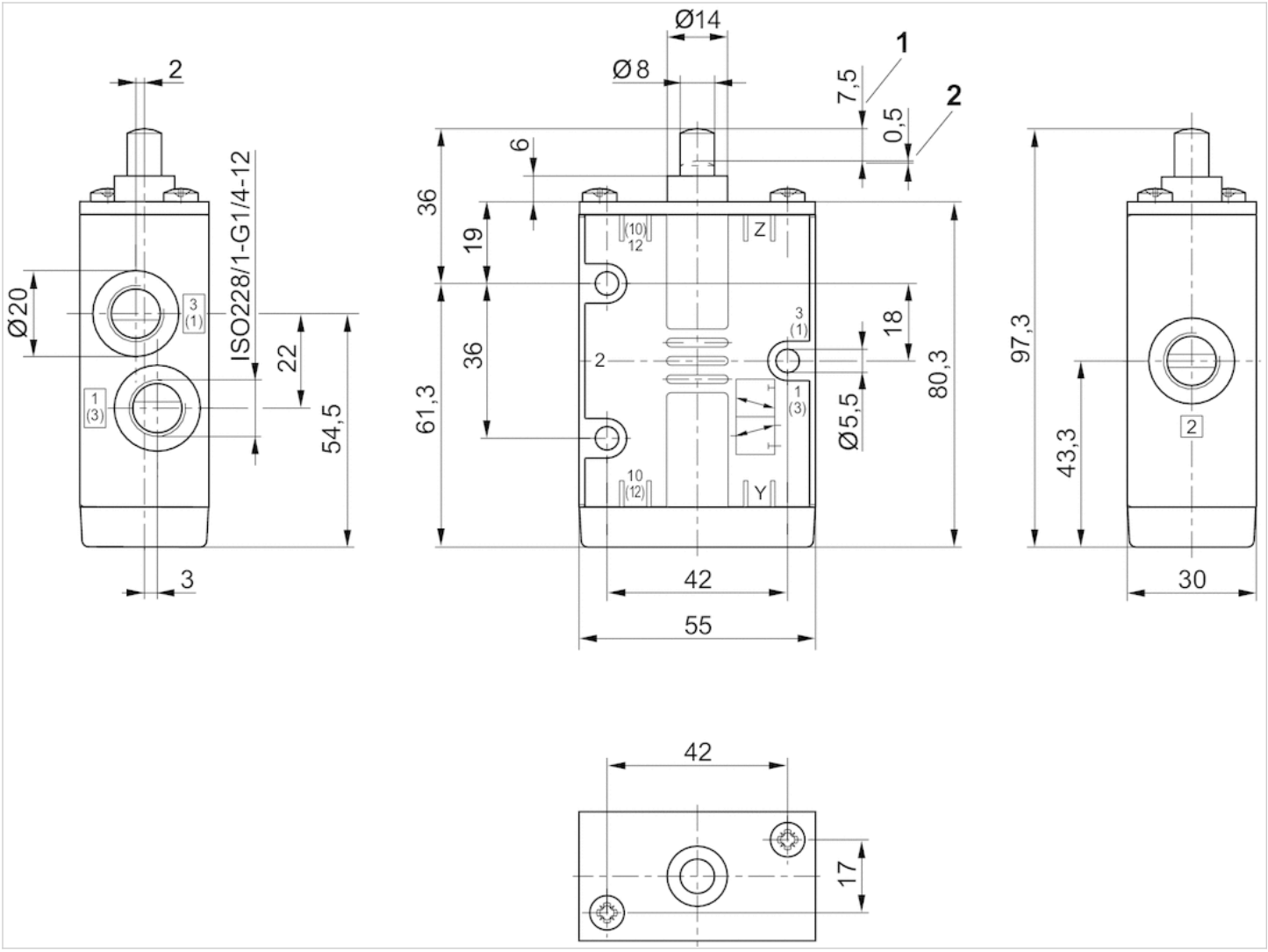
option valve: The input and output compressed air connections can be exchanged.The valve can thereby be used in the NC or NO operating mode.

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced, Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |
| Actuating element | Stainless steel, Polyoxymethylene |

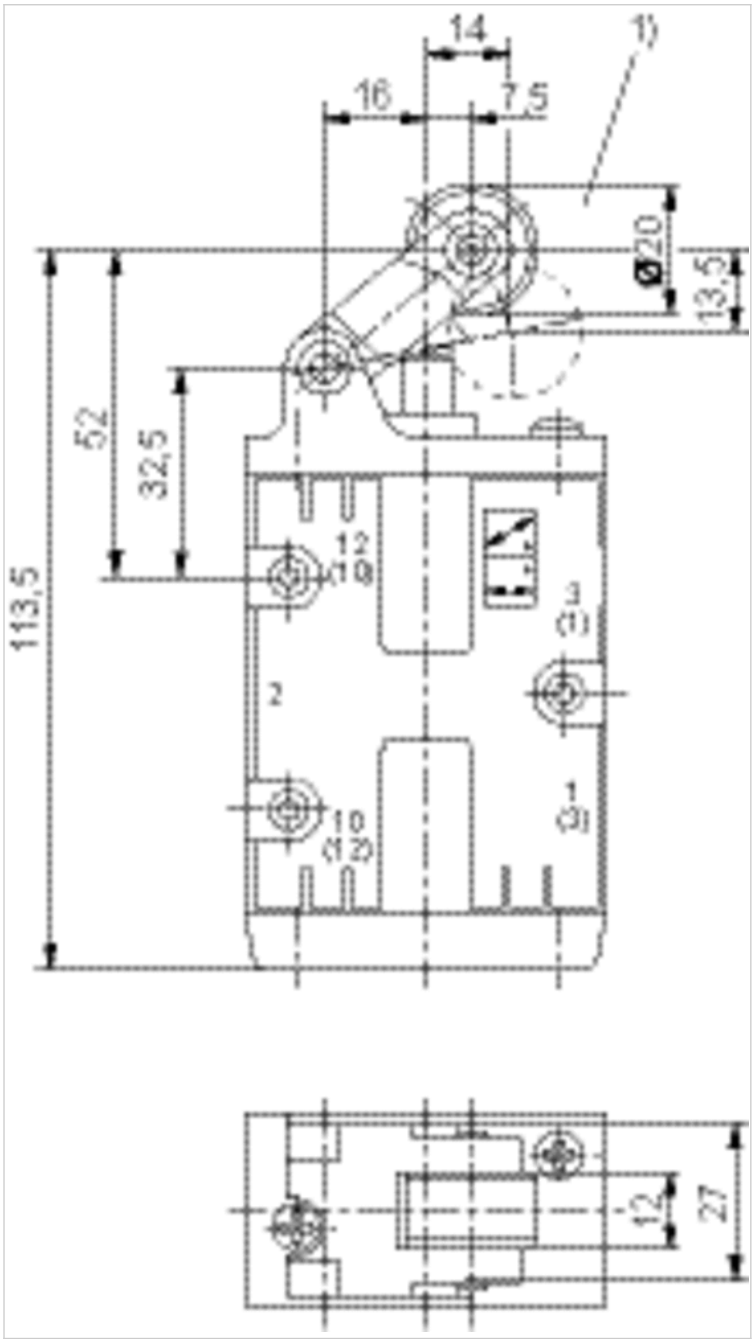
# Dimensions

## Dimensions Fig. 1



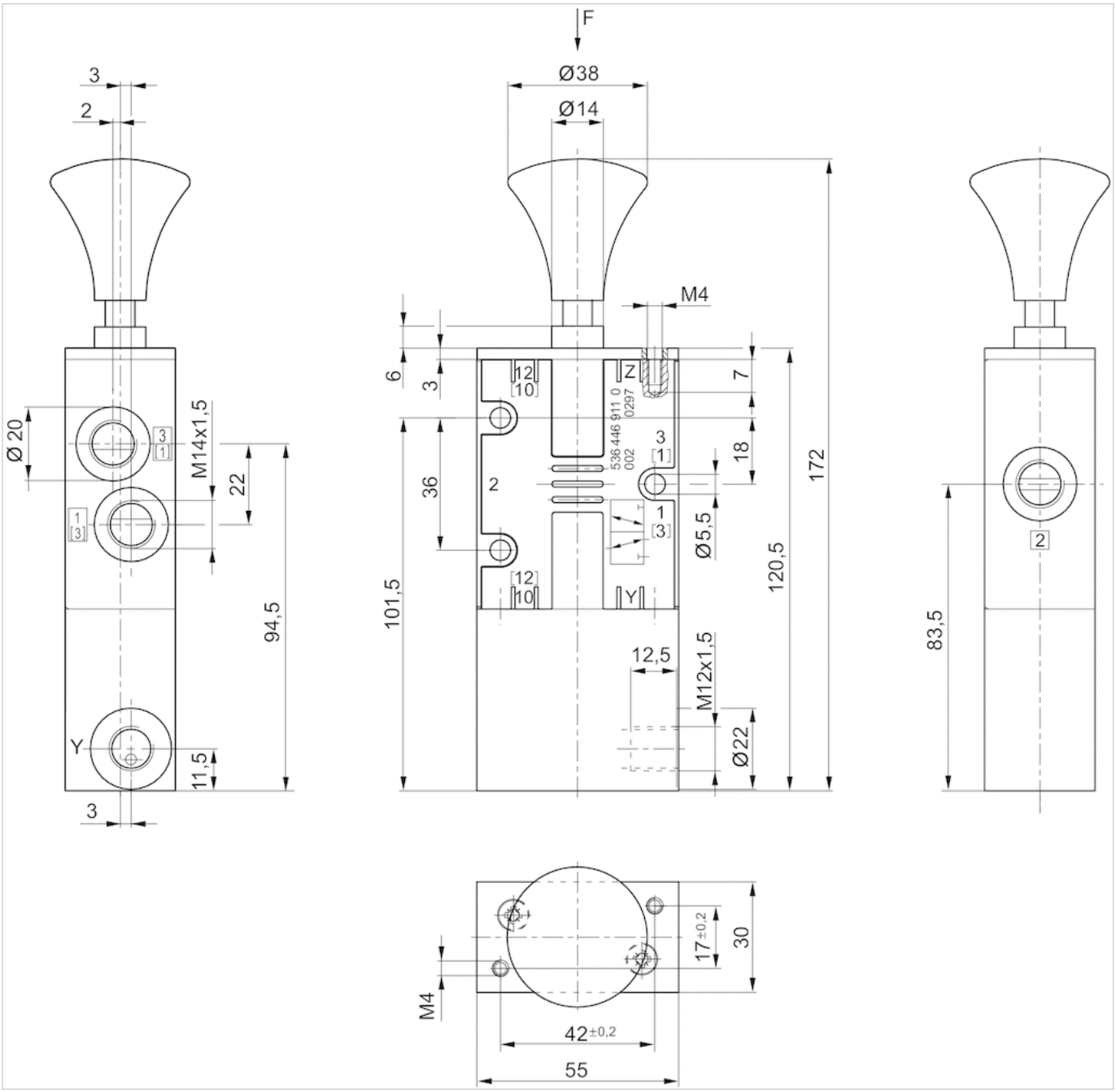

1) Stroke 2) Overstroke

## Dimensions Fig. 3

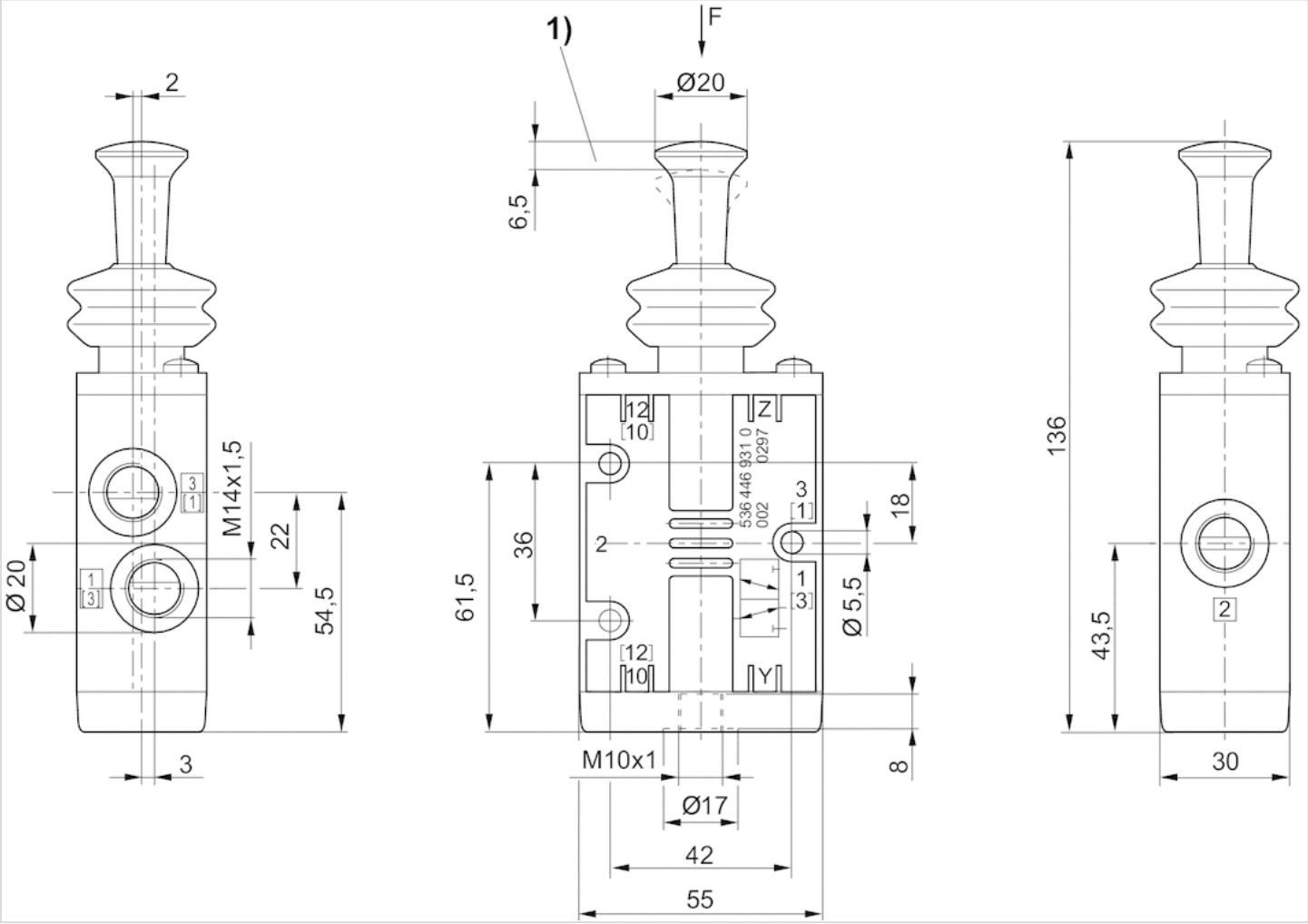



1) approach angle of rollers max. 30°

## Dimensions Fig. 4

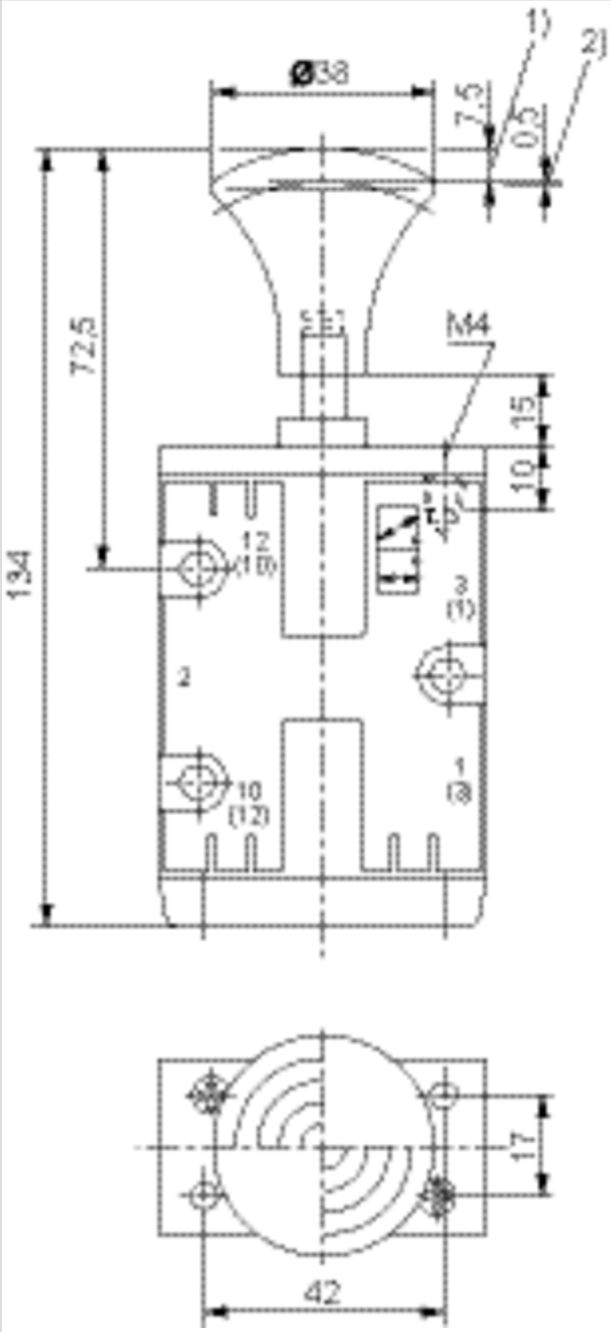


## Dimensions Fig. 5




1) Stroke

## Dimensions Fig. 8




1) Stroke 2) Overstroke

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output G 1/4
- Pipe connection
- suitable for ATEX

| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Mechanical |
| Switching principle | 5/2 |
| Sealing principle | Soft sealing |
| Nominal flow Qn | 1200 l/min |
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | See table below |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | See table below |

## Technical data

| Part No. | | Actuating element | Compressed air connection |
|---|---|---|---|
| | | | Input |
| 5634600100 | | Plunger | G 1/4 |
| 5634610100 | | Roller | G 1/4 |
| 5634630100 | | Hand lever, with detent, without detent | G 1/4 |
| 5634640100 | | Hand lever | G 1/4 |
| 5634650100 | | Rotary lever, with detent | G 1/4 |
| 5634660100 | | Button | G 1/4 |
| 5634669200 | | Button | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Output | Exhaust |
| 5634600100 | G 1/4 | G 1/4 |
| 5634610100 | G 1/4 | G 1/4 |
| 5634630100 | G 1/4 | G 1/4 |
| 5634640100 | G 1/4 | G 1/4 |
| 5634650100 | G 1/4 | G 1/4 |
| 5634660100 | G 1/4 | G 1/4 |
| 5634669200 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection | Operating force | Control pressure min./max. |
|---|---|---|---|
| | Pilot control exhaust | min. | |
| 5634600100 | - | 70 N | - |
| 5634610100 | - | 40 N | - |
| 5634630100 | - | 20 N | - |
| 5634640100 | - | 15 N | - |
| 5634650100 | - | 15 N | - |

| Part No. | Compressed air connection<br>Pilot control exhaust | Operating force<br>min. | Control pressure min./max. |
|---|---|---|---|
| 5634660100 | - | 70 N | - |
| 5634669200 | G 1/8 | 80 N | 5 ... 10 bar |

| Part No. | Housing material | Material actuating control | Weight |
|---|---|---|---|
| 5634600100 | Die cast zinc, Polyamide, fiber-glass reinforced | Stainless steel | 0,54 kg |
| 5634610100 | Die cast zinc, Polyamide, fiber-glass reinforced | Stainless steel | 0,59 kg |
| 5634630100 | Die cast zinc, Polyamide, fiber-glass reinforced | Polyoxymethylene | 0,62 kg |
| 5634640100 | Die cast zinc, Polyamide, fiber-glass reinforced | Polyoxymethylene | 0,59 kg |
| 5634650100 | Die cast zinc, Polyamide, fiber-glass reinforced | Polyoxymethylene | 0,64 kg |
| 5634660100 | Die cast zinc, Polyamide, fiber-glass reinforced | Polyoxymethylene | 0,54 kg |
| 5634669200 | Die cast zinc | Polyoxymethylene | 0,54 kg |

| Part No. | Fig. |
|---|---|
| 5634600100 | Fig. 1 |
| 5634610100 | Fig. 2 |
| 5634630100 | Fig. 3 |
| 5634640100 | Fig. 4 |
| 5634650100 | Fig. 5 |
| 5634660100 | Fig. 6 |
| 5634669200 | Fig. 7 |

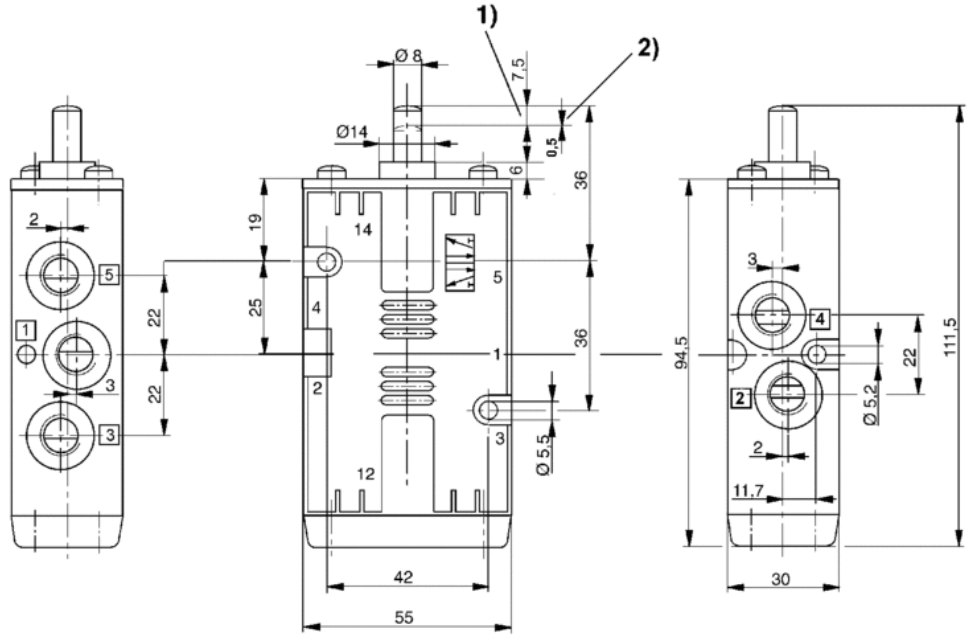
Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced, Die cast zinc |
| Seals | Acrylonitrile butadiene rubber |
| Actuating element | Stainless steel, Polyoxymethylene |

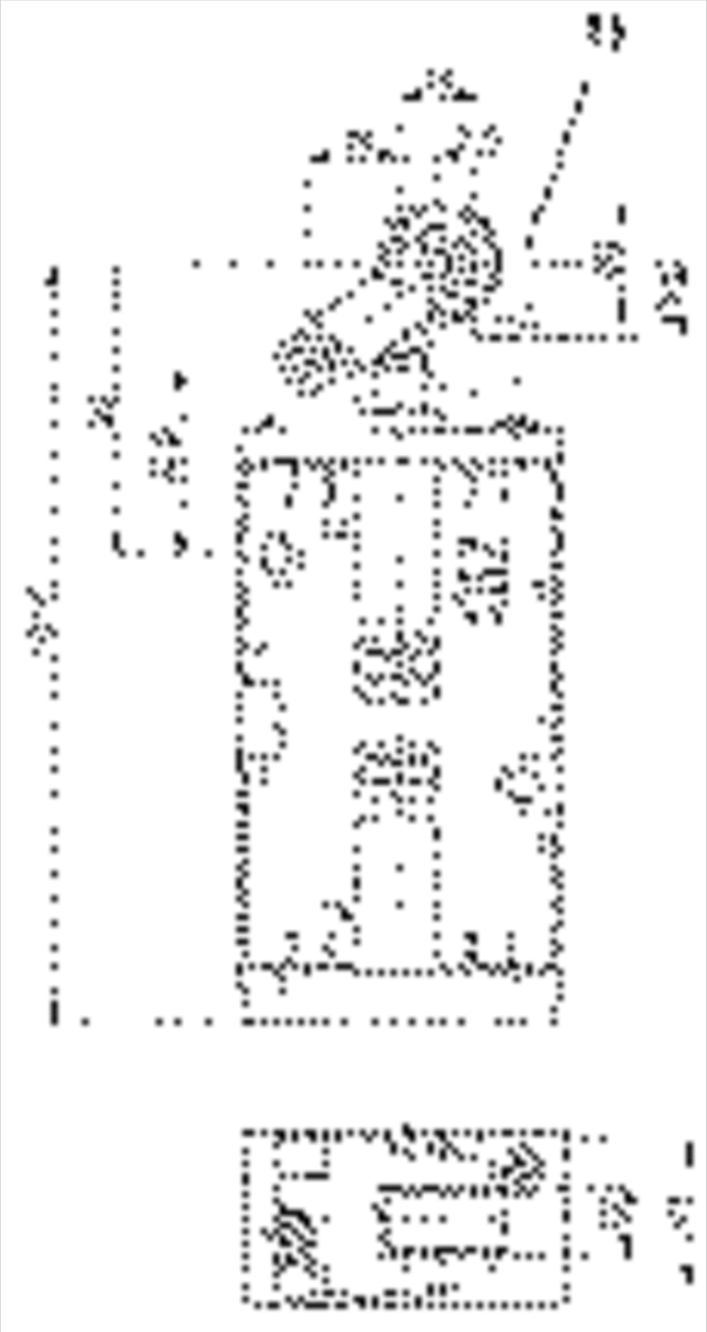
# Dimensions

## Dimensions Fig. 1



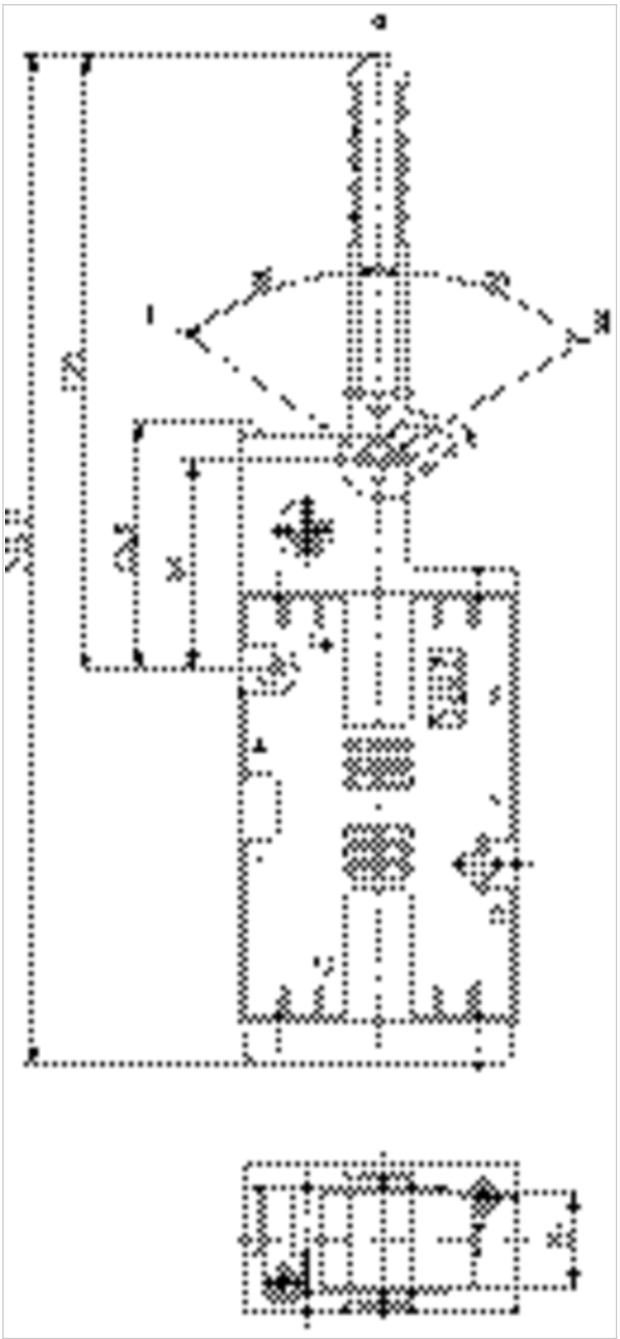

1) Stroke 2) Overstroke
Dimensions of basic valve apply to all types of actuation.

## Dimensions Fig. 2



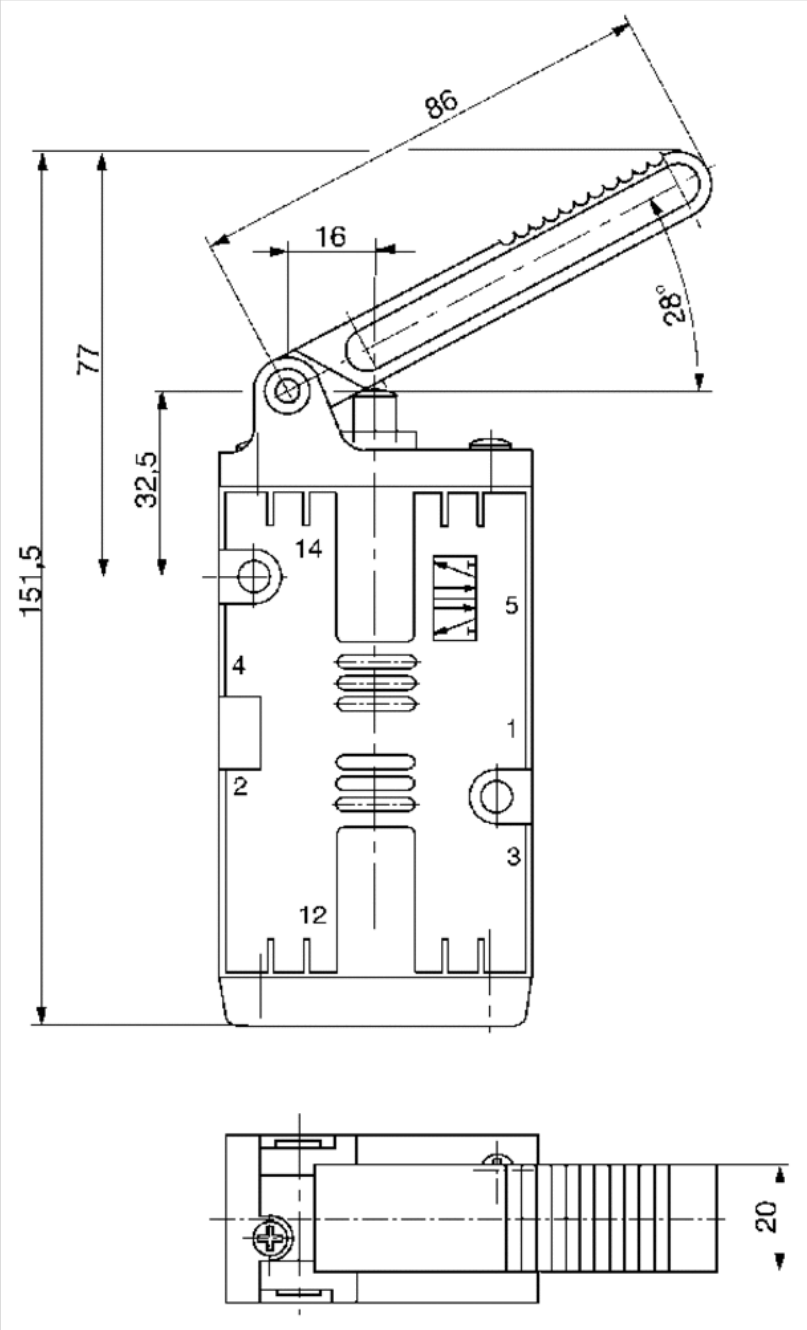
1) approach angle of rollers max. 30°

## Dimensions Fig. 3

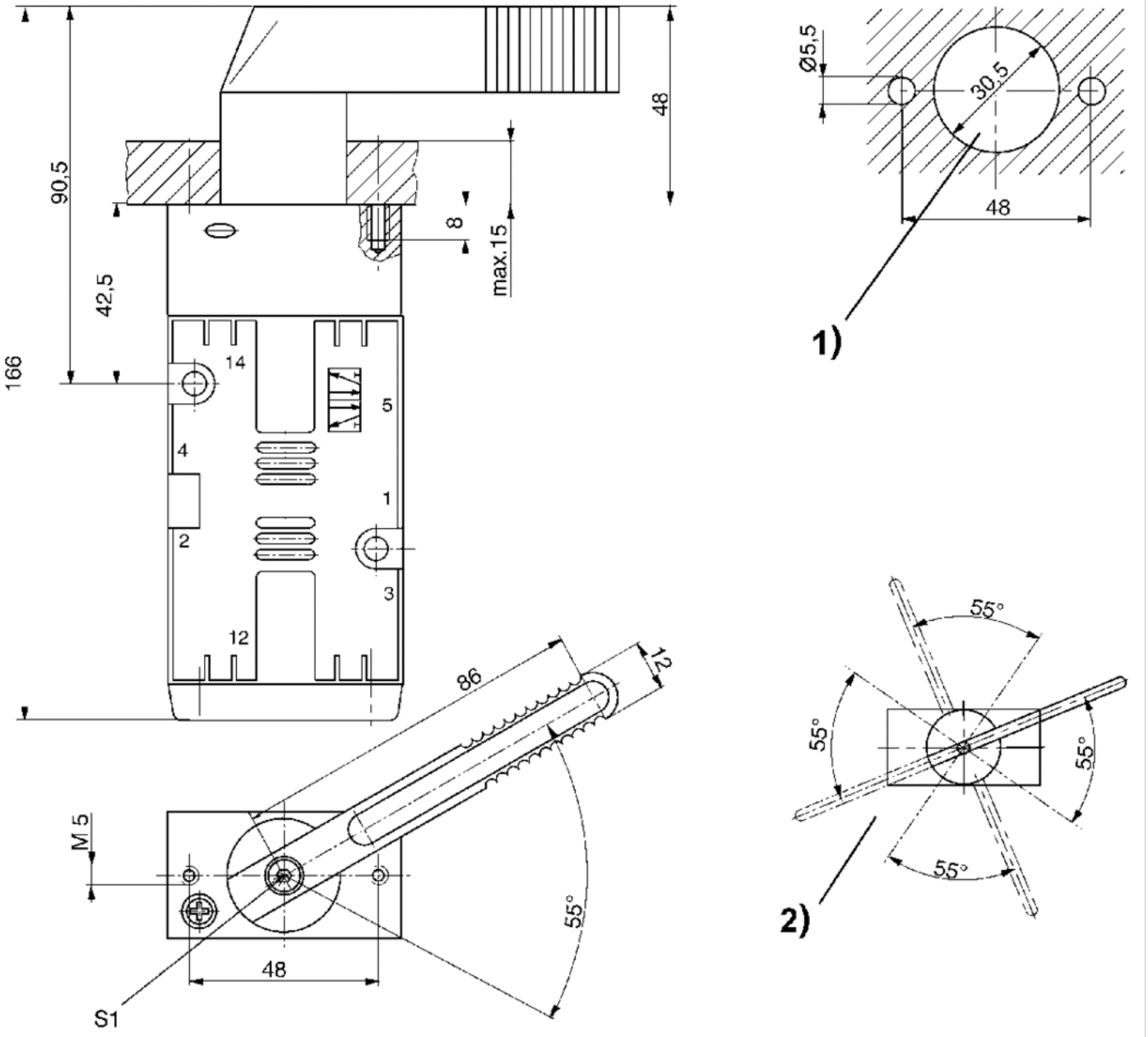


Position 0: initial position, position I: with detent; manual return, position II: automatic spring return.

## Dimensions Fig. 4

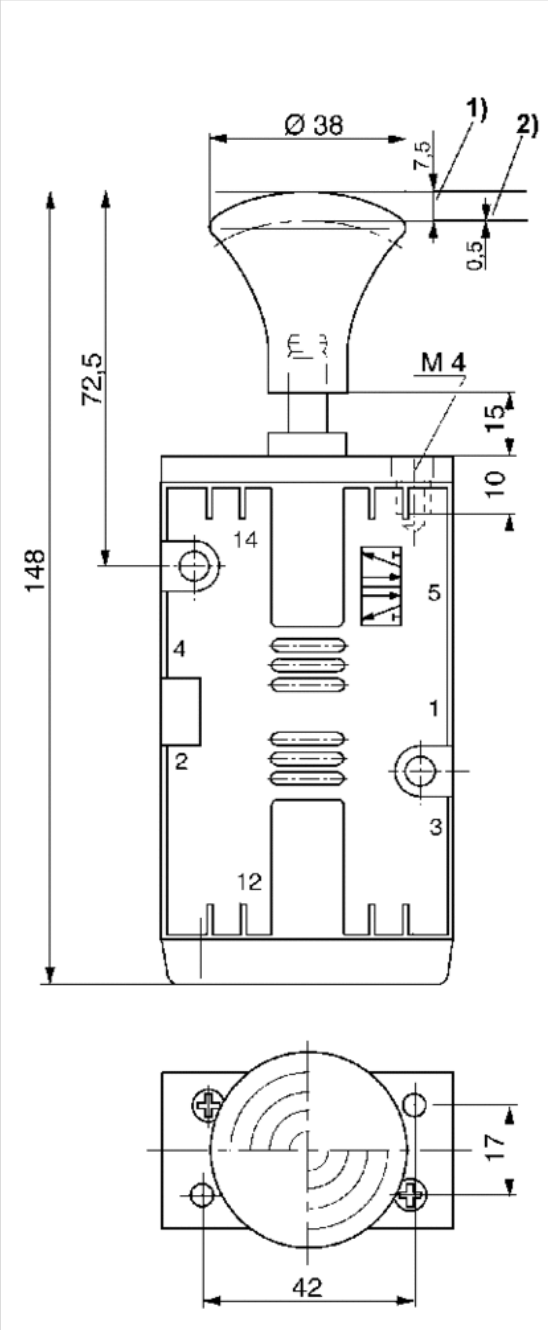


## Dimensions Fig. 5



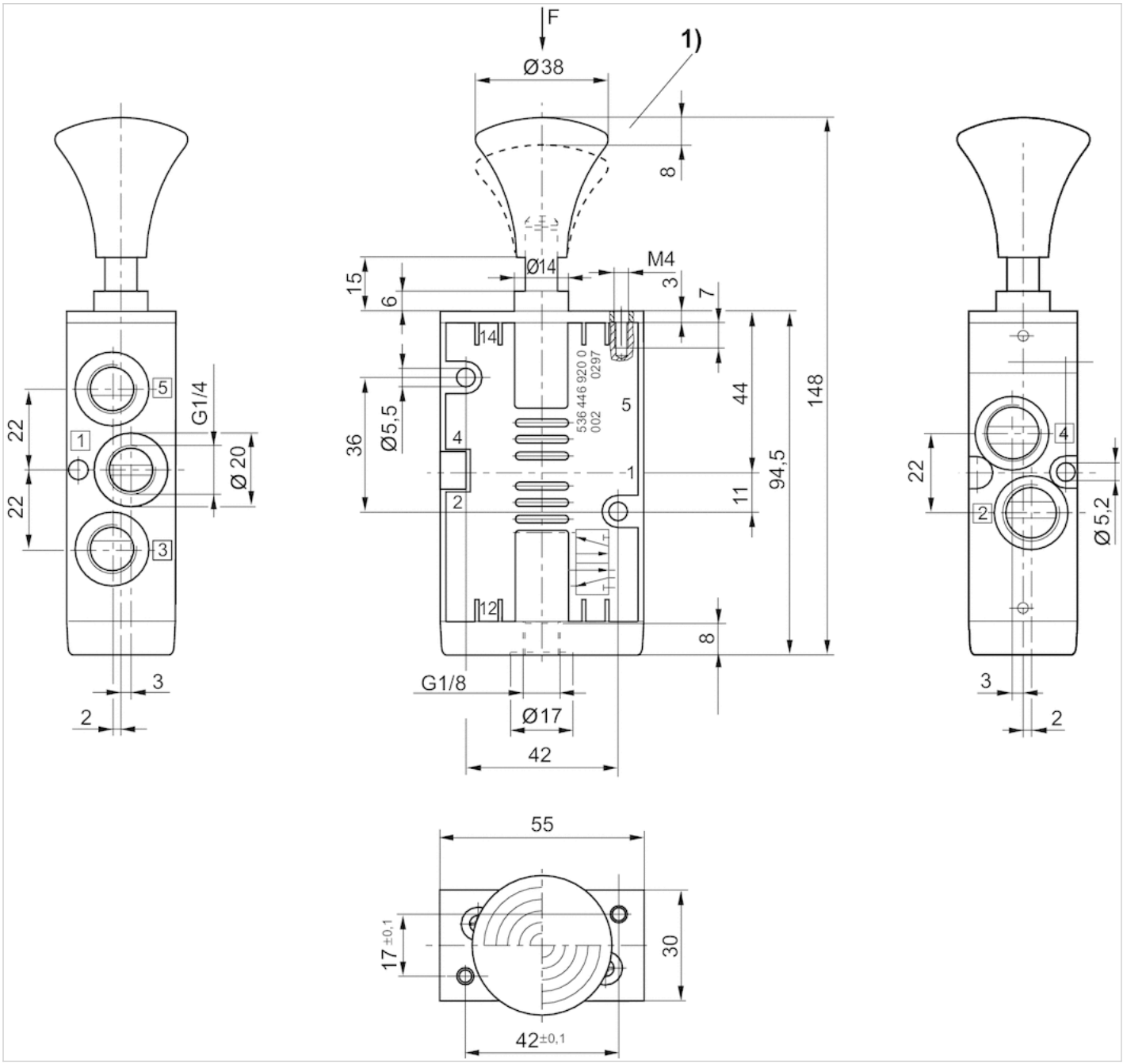

1) control panel installation (holes in mounting panel)2) possible lever positions (basic position of hand lever adjustable in 90° steps after loosening screw ”S1”).

## Dimensions Fig. 6




1) Stroke 2) Overstroke

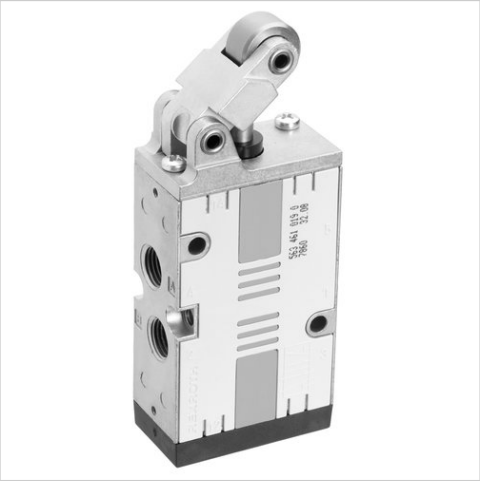
## Dimensions Fig. 7




1) Stroke

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output G 1/4
- single solenoid
- Pipe connection
- cold-resistant
- suitable for ATEX



| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Mechanical |
| Switching principle | 5/2 |
| Sealing principle | Soft sealing |
| Nominal flow Qn | 1200 l/min |
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Ambient temperature min./max. | -35 ... 70 °C |
| Medium temperature min./max. | -35 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | See table below |

## Technical data

| Part No. | | Actuating element | Compressed air connection |
|---|---|---|---|
| | | | Input |
| 5634610190 | | Roller | G 1/4 |
| 5634630190 | | Hand lever, with detent, without detent | G 1/4 |

| Part No. | Compressed air connection | Compressed air connection | Operating force |
|---|---|---|---|
| | Output | Exhaust | min. |
| 5634610190 | G 1/4 | G 1/4 | 52 N |
| 5634630190 | G 1/4 | G 1/4 | 26 N |

| Part No. | Material actuating control | Weight | Fig. |
|---|---|---|---|
| 5634610190 | Polyoxymethylene | 0,59 kg | Fig. 1 |
| 5634630190 | Polyoxymethylene, Aluminum | 0,62 kg | Fig. 2 |

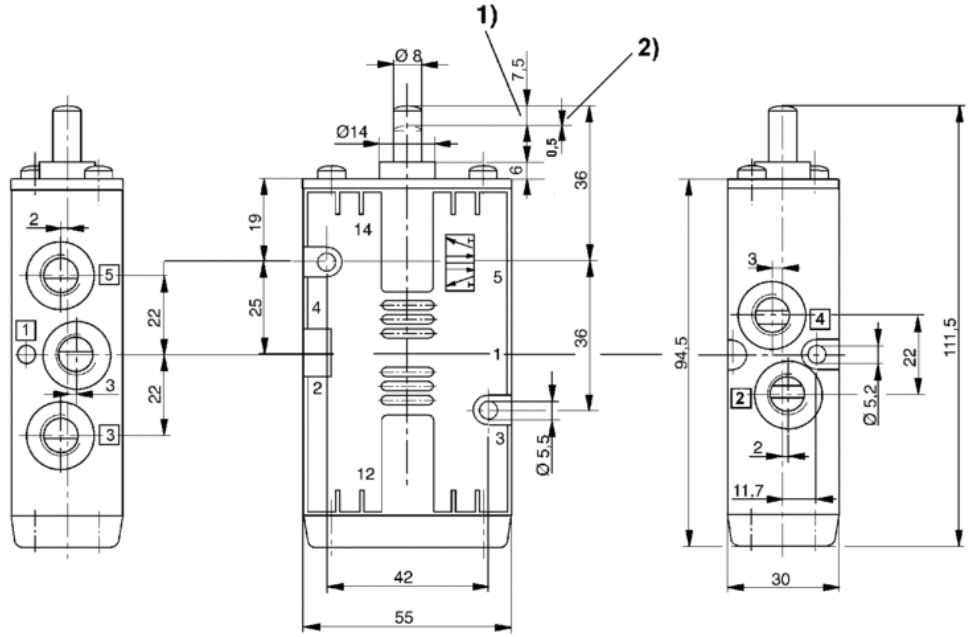
Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber, Polyurethane |
| Actuating element | Polyoxymethylene, Polyoxymethylene, Aluminum |

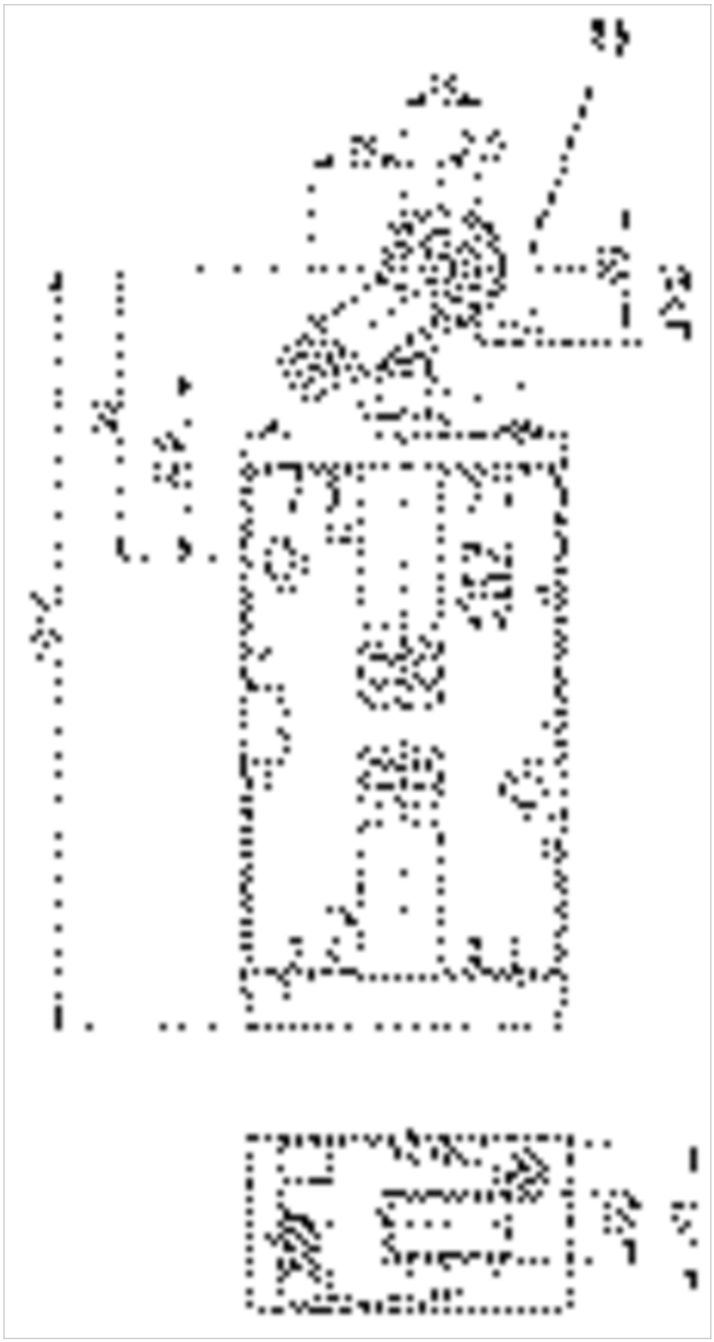
# Dimensions

## Dimensions Fig. 1



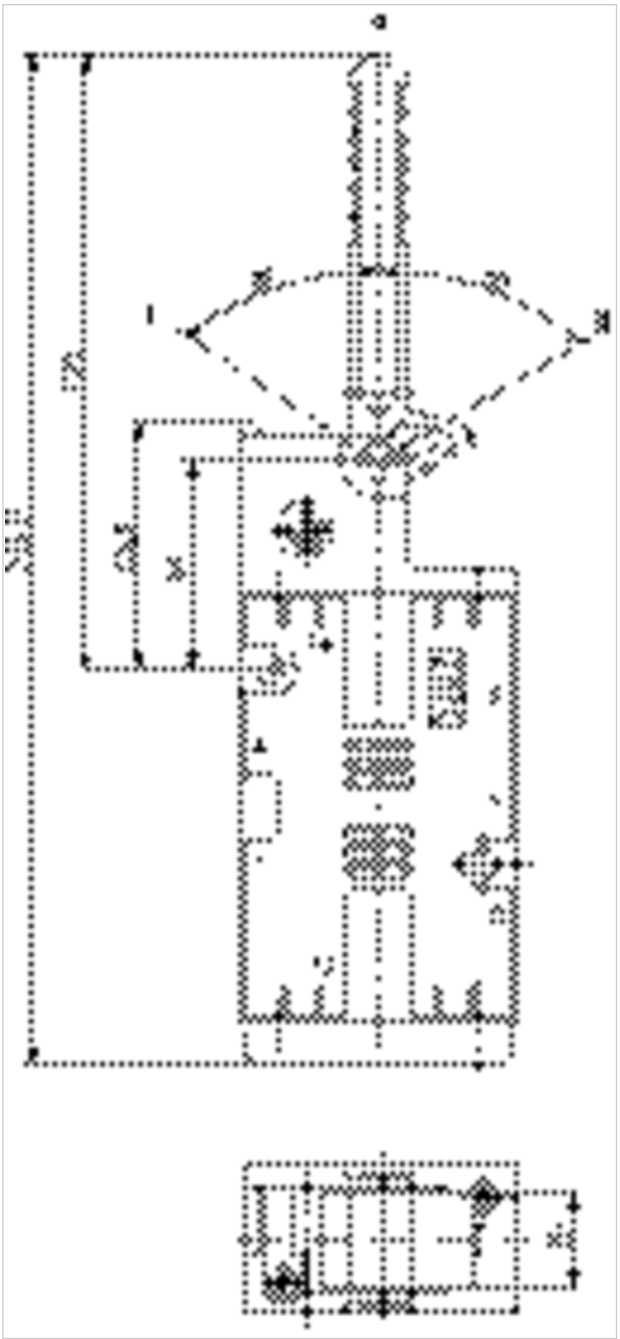

1) Stroke 2) Overstroke
Dimensions of basic valve apply to all types of actuation.

## Dimensions Fig. 2



1) approach angle of rollers max. 30°

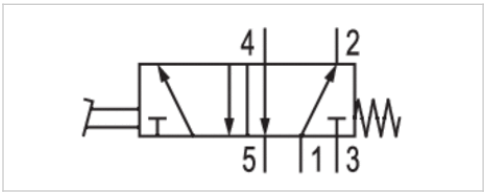
## Dimensions Fig. 3



Position 0: initial position, position I: with detent; manual return, position II: automatic spring return.

# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output G 1/4
- Pipe connection
- suitable for ATEX




| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Mechanical |
| Actuating element | Pedal |
| Switching principle | 5/2 |
| Sealing principle | Soft sealing |
| Nominal flow Qn | 1200 l/min |
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | 0,76 kg |

## Technical data

| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Input | Output |
| 5634670100 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection |
|---|---|
| | Exhaust |
| 5634670100 | G 1/4 |

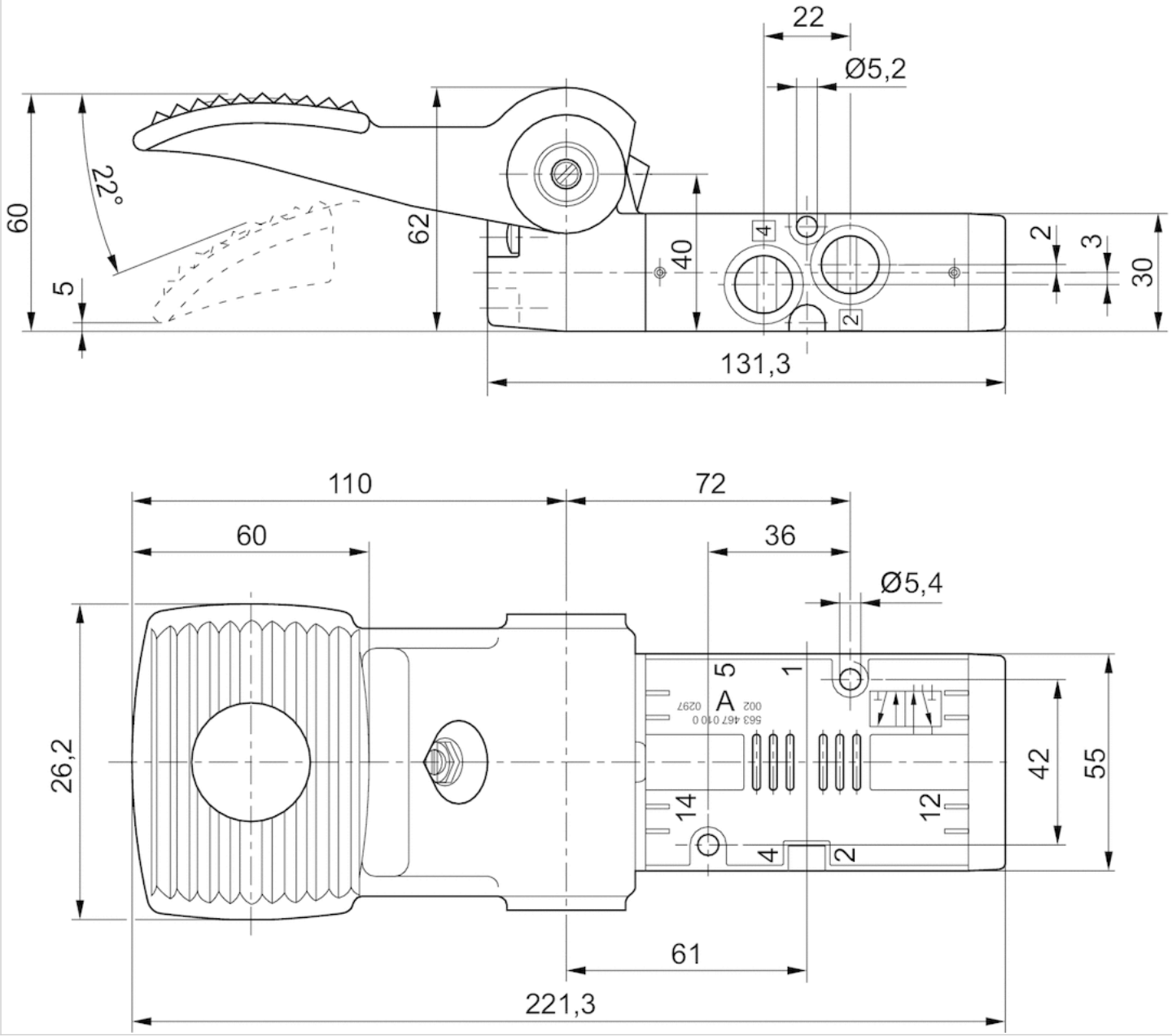
Nominal flow Qn at 6 bar and Δp = 1 bar

## Technical information

| Material | |
|---|---|
| Housing | Die cast zinc, Polyamide, fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

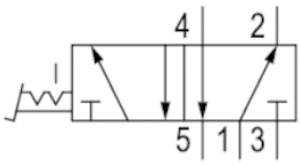
# Dimensions

## Dimensions



# 5/2-directional valve, Series CD07

- Qn = 1200 l/min
- Compressed air connection output G 1/4
- Pipe connection
- suitable for ATEX




| | |
|---|---|
| Version | Spool valve, positive overlapping |
| Activation | Mechanical |
| Lock type | not lockable |
| Actuating element | Pedal, with detent |
| Switching principle | 5/2 |
| Sealing principle | Soft sealing |
| Nominal flow Qn | 1200 l/min |
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 1 mg/m³ |
| Weight | 1,56 kg |

## Technical data

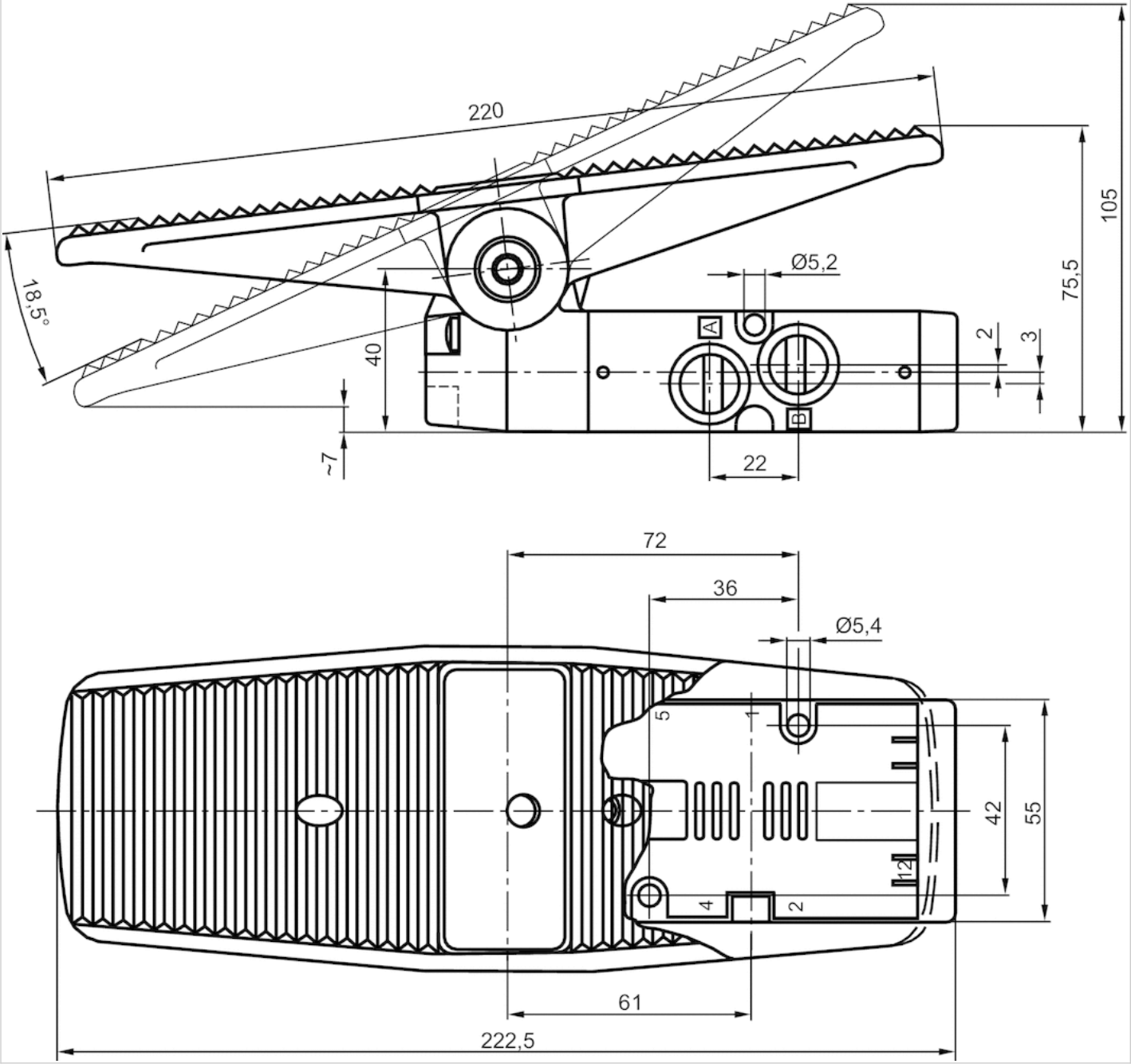
| Part No. | Compressed air connection | Compressed air connection |
|---|---|---|
| | Input | Output |
| 5634695100 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection |
|---|---|
| | Exhaust |
| 5634695100 | G 1/4 |

Nominal flow Qn at 6 bar and Δp = 1 bar

# Dimensions

## Dimensions



# 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

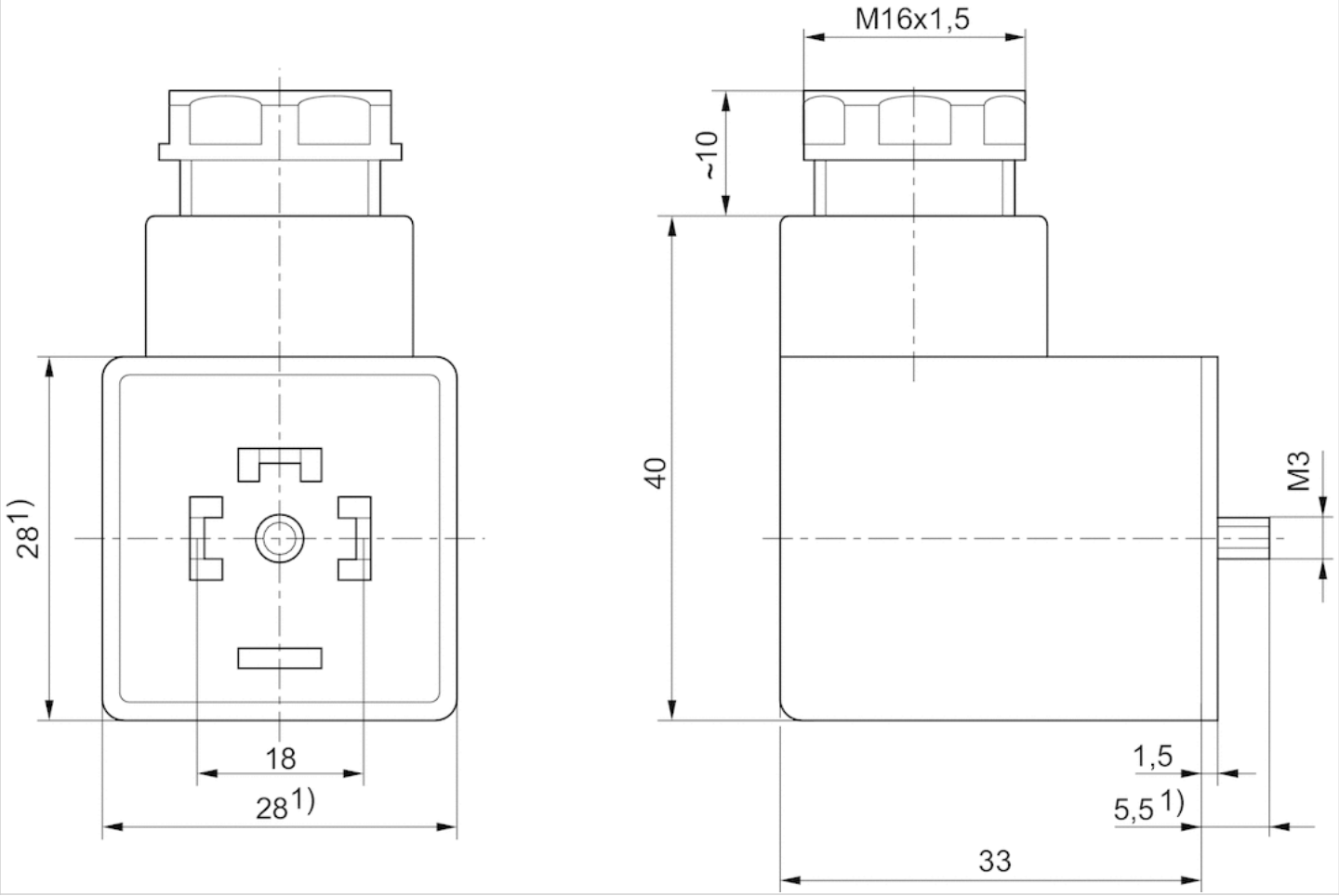
The specified protection class is only valid in assembled and tested state.

## 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

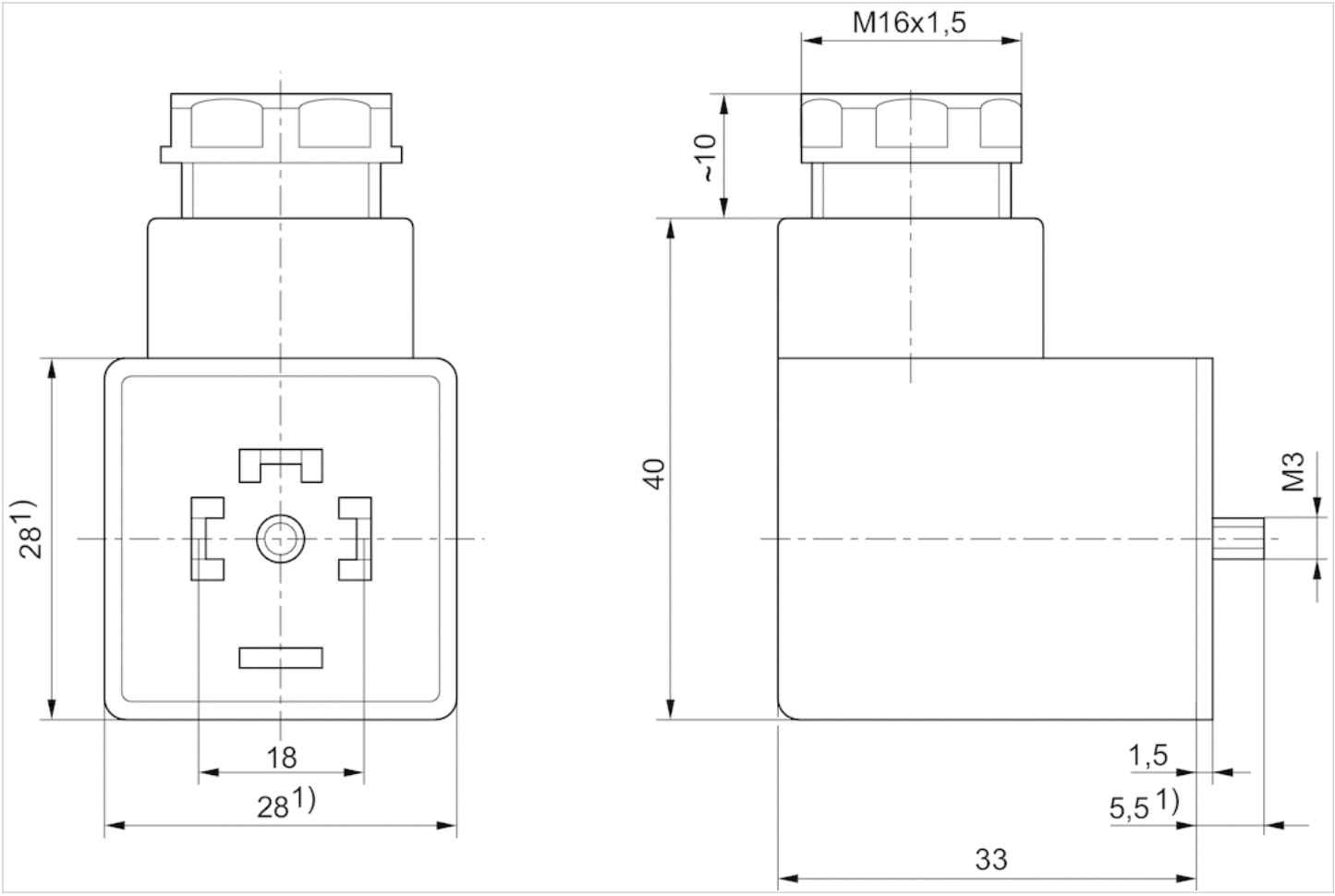
The specified protection class is only valid in assembled and tested state.

## Technical information

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

# Dimensions

## Dimensions



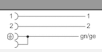

1) Max.

# 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 |

## Dimensions

Fig. 1

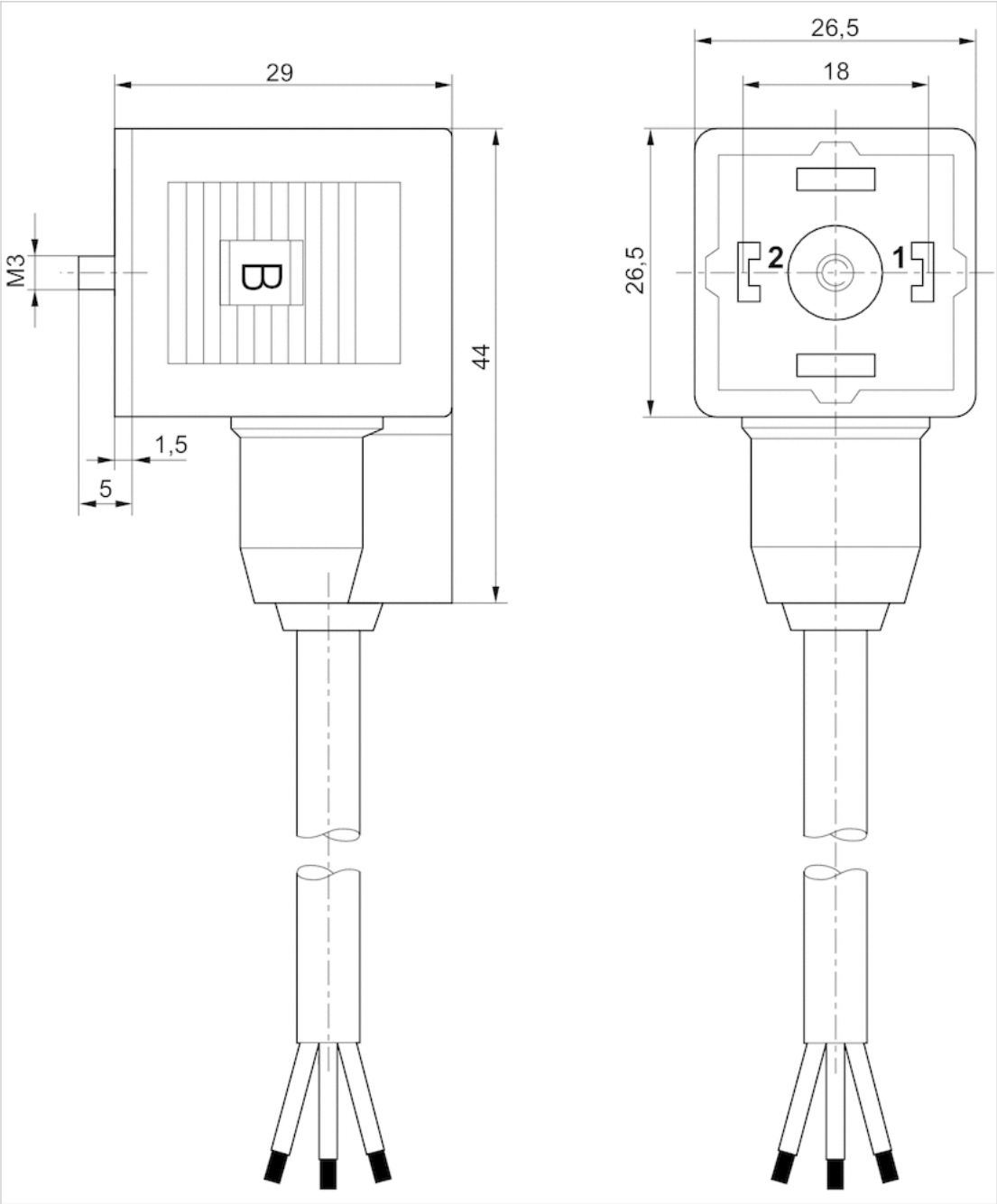
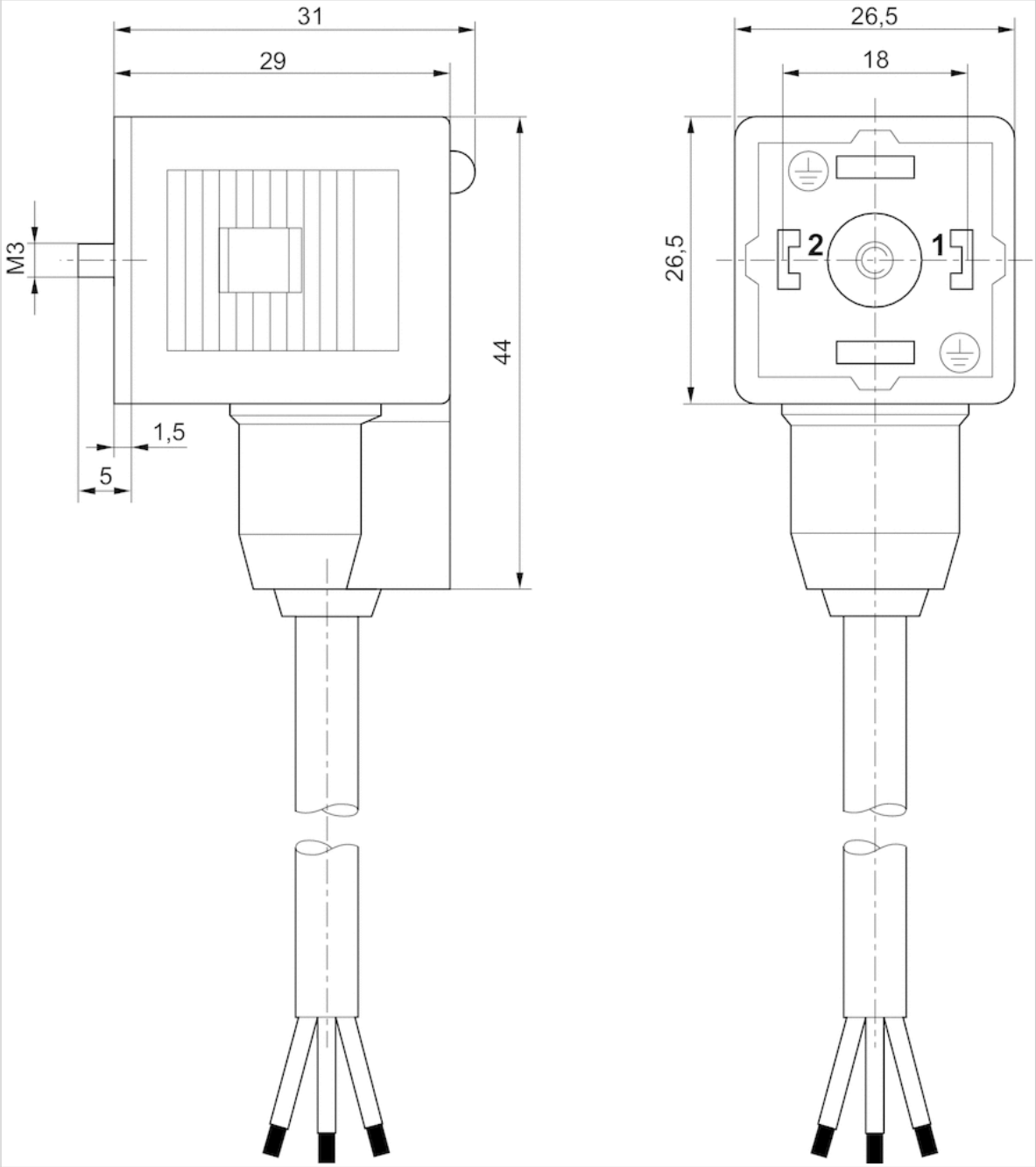
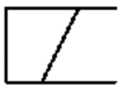


Fig. 2



# Coil, Series CO1

- With valve plug connector
- Coil width 30 mm
- Power consumption,DC 2.1 W
- Holding power,AC 4-4.1 VA
- Switch-on power,AC 4-4.1 VA
- ATEX



| | |
|---|---|
| Certificates | ATEX |
| ATEX class G | II 3G Ex nA IIC T4 Gc X |
| ATEX class D | II 3D Ex tc IIIC T125°C Dc X |
| Ambient temperature min./max. | -10 ... 50 °C |
| Protection class | IP65 |
| Duty cycle ED | 100 % |
| Compatibility index | 13 |
| Weight | See table below |

## Technical data

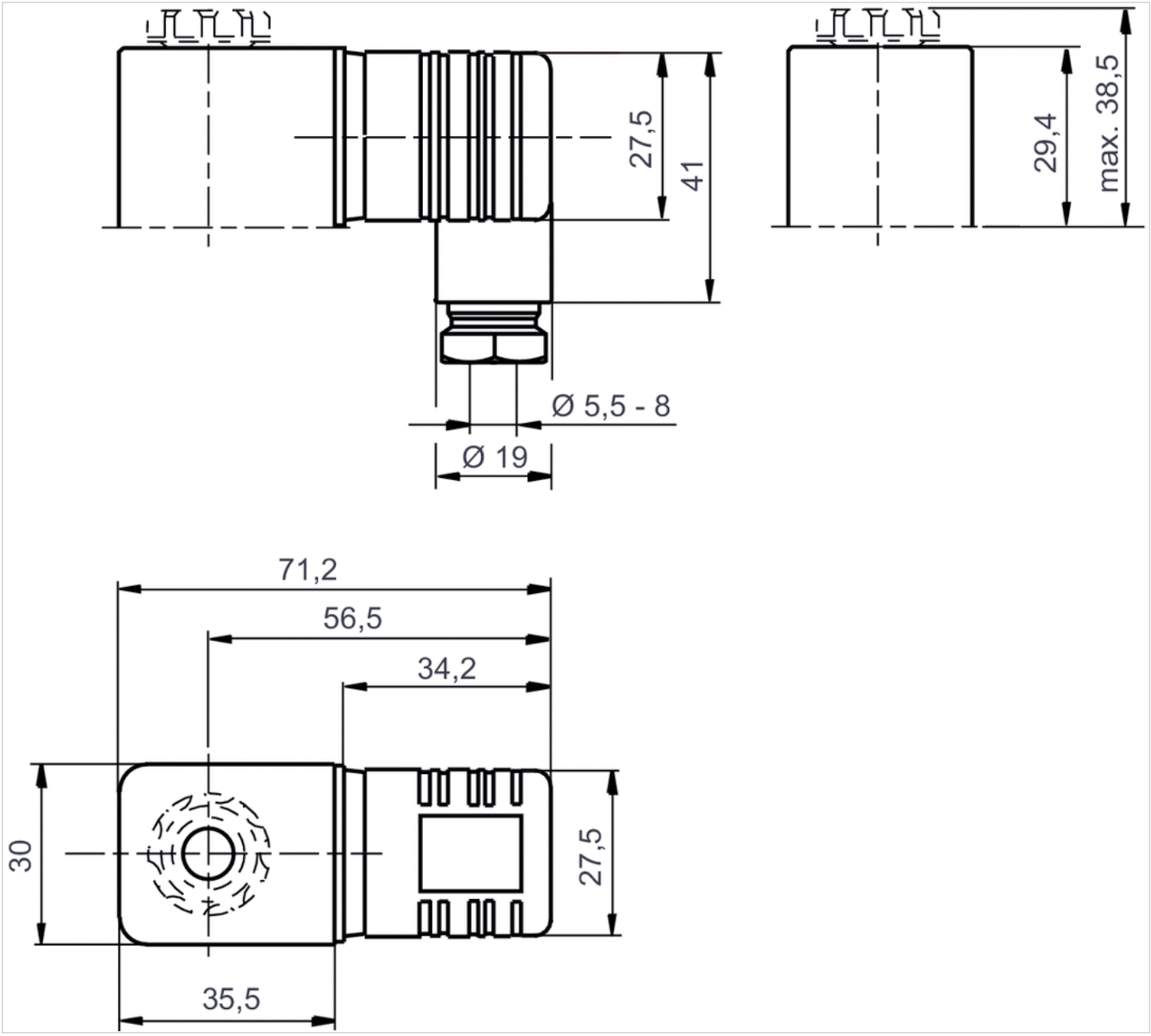
| Part No. | Operationalvoltage | Operationalvoltage | Operationalvoltage | Voltage tolerance |
|---|---|---|---|---|
| | DC | AC 50 Hz | AC 60 Hz | DC |
| R412000144 | 24 V | - | - | -10% / +10% |
| R412000145 | - | 24 V | 24 V | - |
| R412000146 | - | 110 V | 110 V | - |
| R412000147 | - | 230 V | 230 V | - |

| Part No. | Voltage tolerance | Voltage tolerance | Power consumption | Holding power |
|---|---|---|---|---|
| | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz |
| R412000144 | - | - | 2,1 W | - |
| R412000145 | -20% / +10% | -10% / +20% | - | 4 VA |
| R412000146 | -20% / +10% | -10% / +20% | - | 4 VA |
| R412000147 | -20% / +10% | -10% / +20% | - | 4,1 VA |

| Part No. | Switch-on power | Weight |
|---|---|---|
| | AC 50 Hz | |
| R412000144 | - | 0,14 kg |
| R412000145 | 4 VA | 0,134 kg |
| R412000146 | 4 VA | 0,122 kg |
| R412000147 | 4,1 VA | 0,137 kg |

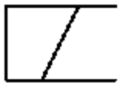
# Dimensions

## 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 |
| ATEX class G | II 2G Ex mb IIC T4 Gb |
| ATEX class D | II 2D Ex mb tb IIIC T130°C Db IP65 |
| Ambient temperature min./max. | -20 ... 50 °C |
| Protection class | IP65 |
| Duty cycle ED | 100 % |
| Compatibility index | 14 |
| Weight | See table below |

## Technical data

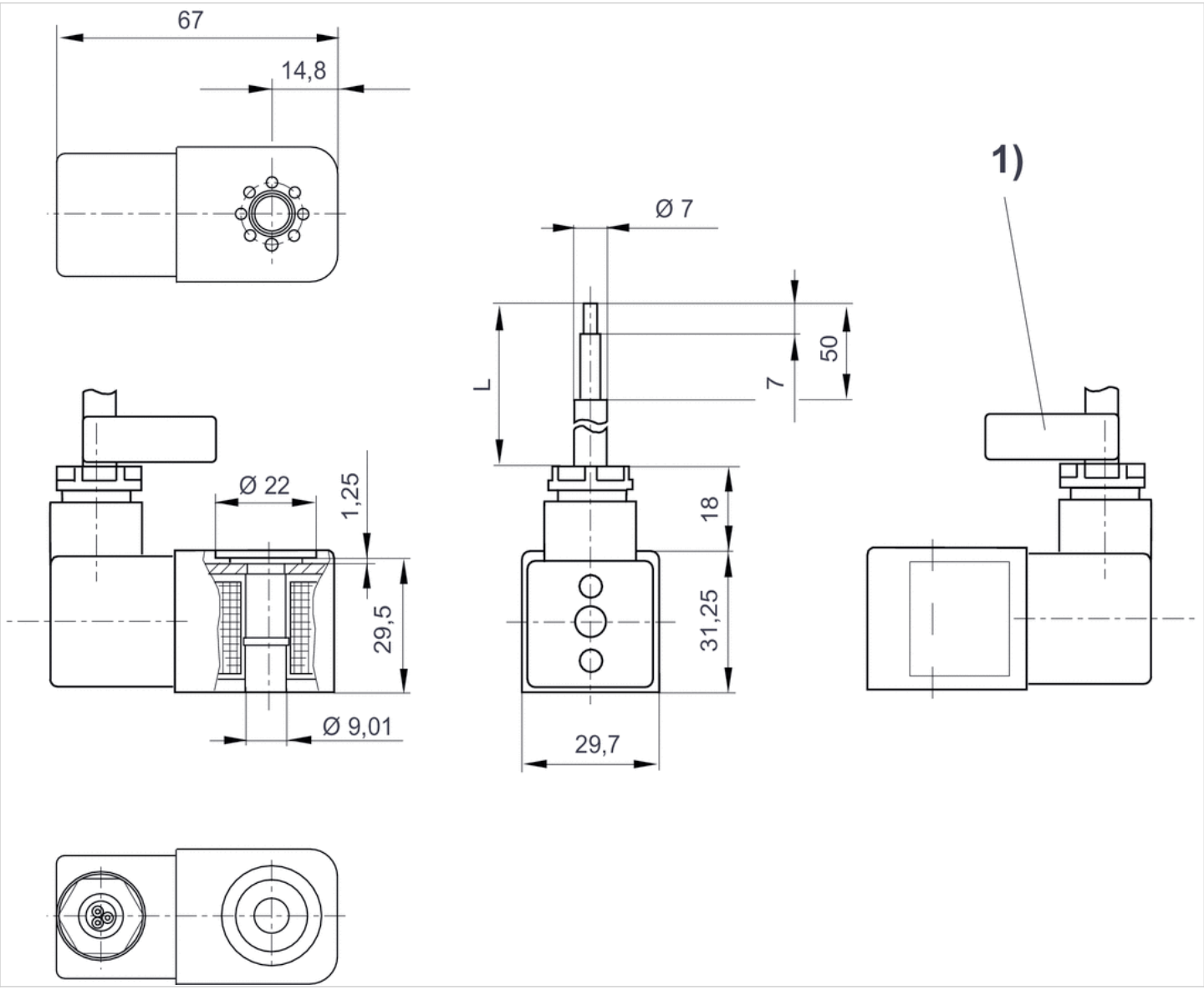
| Part No. | Operationalvoltage | Operationalvoltage | Operationalvoltage | Voltage tolerance |
|---|---|---|---|---|
| | DC | AC 50 Hz | AC 60 Hz | DC |
| 1827414297 | - | 230 V | 230 V | - |
| 1827414298 | - | 230 V | 230 V | - |
| 1827414299 | - | 110 V | 110 V | - |
| 1827414300 | - | 110 V | 110 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 |
| 1827414300 | -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 |
| 1827414300 | 10 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

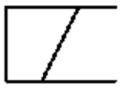



L = cable length
1) Cable ID band with serial number

# 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 | EN 175301-803, form A |
| electrical connections | Plug, 3-pin |
| Ambient temperature min./max. | 50 °C |
| Protection class,With valve plug connector/plug | IP65 |
| Duty cycle ED | 100 % |
| Compatibility index | 14 |
| Weight | 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 |

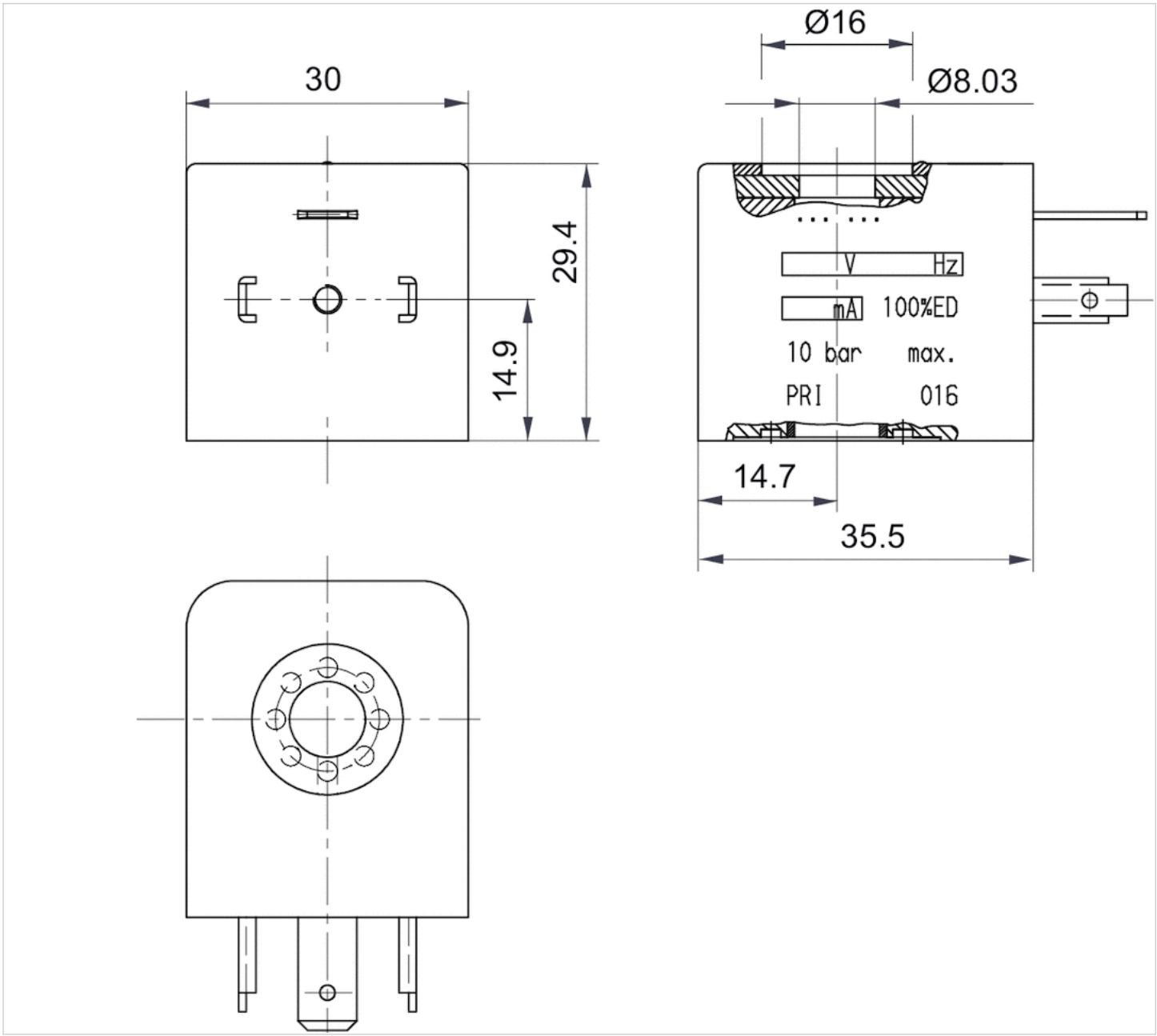
| Part No. | Holding power |
|---|---|
| | AC 60 Hz |
| 5420897022 | - |
| 5428117022 | 3,9 VA |
| 5428117072 | 3,6 VA |
| 5428117082 | 4,2 VA |

## Technical information

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

## Dimensions

### Dimensions



# Adapter, Series CON-VP

- from form A to form C
- Socket, straight, 180°
- Plug, straight, 180°
- unshielded

| | |
|---|---|
| Ambient temperature min./max. | -25 ... 50 °C |
| Operationalvoltage | 42 V, DC |
| Protection class | IP65 |
| Protection class | IP65 |
| Weight | 0,013 kg |

## Technical data

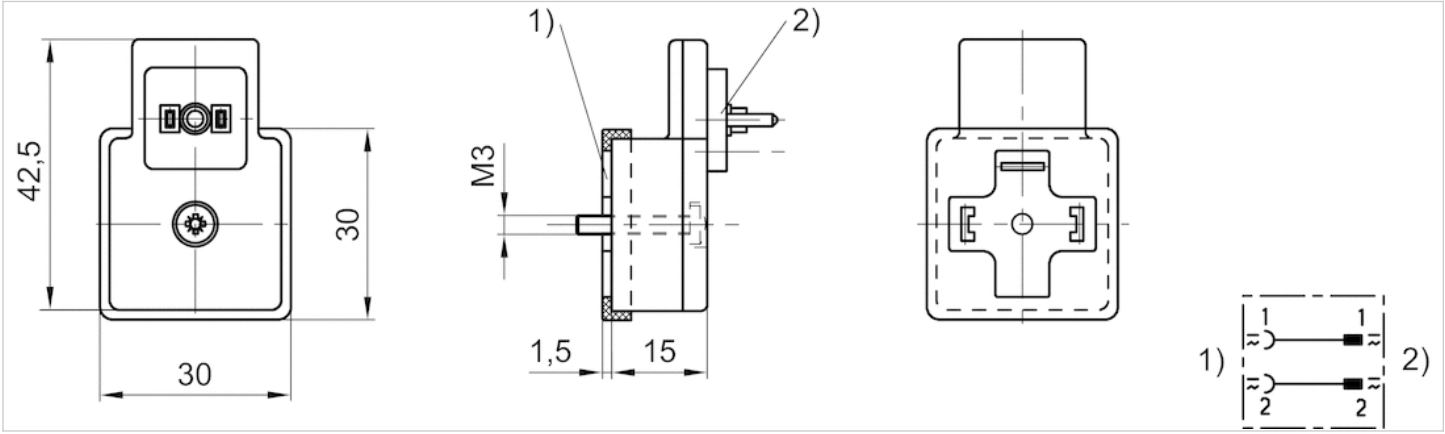
| Part No. | Version | Max. current |
|---|---|---|
| 8946053622 | from form A to form C | 0,5 A |

## Technical information

| Material | |
|---|---|
| Housing | Polyamide |

## Dimensions

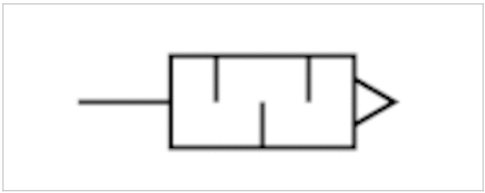
### Dimensions




1) contact as per DIN EN 175301-803, form A
2) contact as per DIN EN 175301-803, form C

# 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 | See table below |
| Weight | See table below |
| Comment | Flow characteristic curves can be found under “Diagrams”. |

## Technical data

| Part No. | Compressed air connection | Sound pressure level | Flow | Delivery unit | Weight |
|---|---|---|---|---|---|
| | | | Qn | | |
| 1827000006 | M5 | 72 dB | 398 l/min | 10 piece | 0,004 kg |
| 8140000700 | M7 | - | - | 10 piece | 0,005 kg |
| 5324001110 | M10x1 | 75 dB | 1747 l/min | 1 piece | 0,011 kg |
| 5324001170 | M12x1,5 | 80 dB | 3049 l/min | 1 piece | 0,019 kg |
| 5324001120 | M14x1,5 | 80 dB | 3390 l/min | 1 piece | 0,018 kg |
| 5324001140 | M22x1,5 | 85 dB | 7223 l/min | 1 piece | 0,071 kg |
| 1827000000 | G 1/8 | 75 dB | 1623 l/min | 10 piece | 0,01 kg |
| R412004817 | G 1/4 | - | 5950 l/min | 10 piece | 0,013 kg |
| 1827000001 | G 1/4 | 79 dB | 3390 l/min | 10 piece | 0,02 kg |
| 1827000002 | G 3/8 | 84 dB | 6554 l/min | 5 piece | 0,05 kg |
| 1827000003 | G 1/2 | 90 dB | 7223 l/min | 2 piece | 0,08 kg |
| 1827000004 | G 3/4 | 92 dB | 8394 l/min | 1 piece | 0,13 kg |
| 1827000005 | G 1 | 102 dB | 12848 l/min | 1 piece | 0,18 kg |

Weight per piece

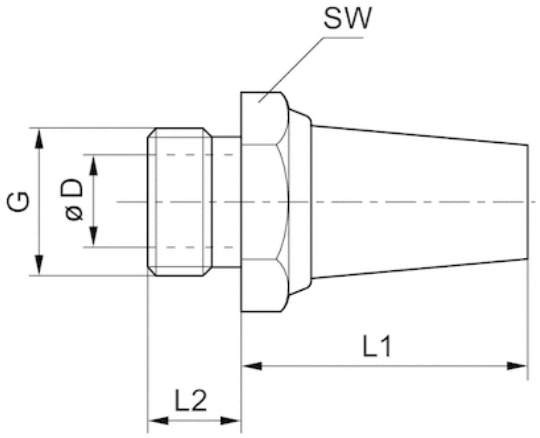
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

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

# Dimensions

## Dimensions

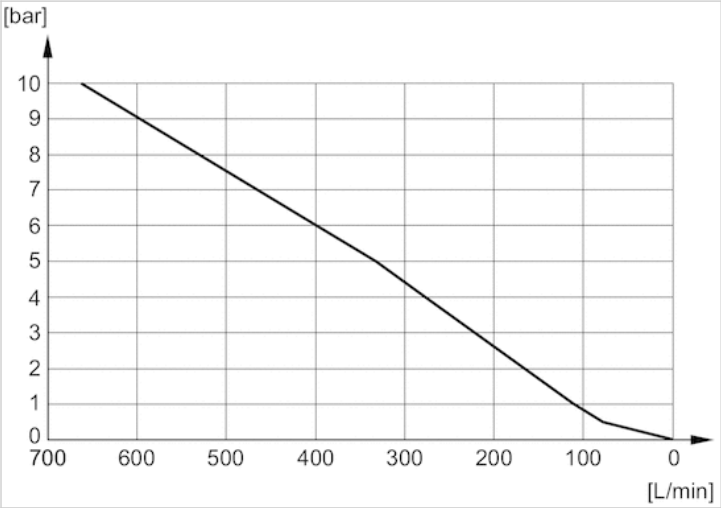



# Dimensions

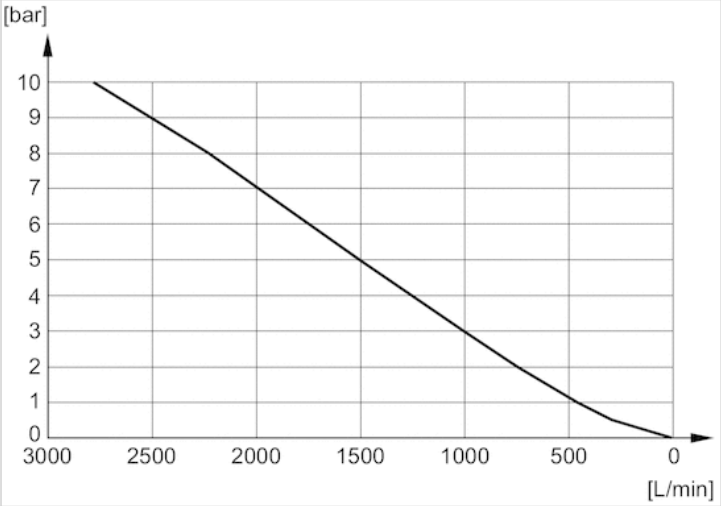
| Part No. | Port G | SW | Ø D | L1 | L2 |
|---|---|---|---|---|---|
| 1827000006 | M5 | 7 | 2.5 | 15 | 5 |
| 8140000700 | M7 | 10 | 4 | 15 | 5 |
| 5324001110 | M10x1 | 13 | 6 | 18 | 6 |
| 5324001170 | M12x1,5 | 17 | 8.5 | 25 | 8 |
| 5324001120 | M14x1,5 | 17 | 8.5 | 25 | 8 |
| 5324001140 | M22x1,5 | 27 | 13 | 45 | 12 |
| 1827000000 | G 1/8 | 13 | 6 | 18 | 6 |
| R412004817 | G 1/4 | 16 | 8.5 | 18.7 | 7.6 |
| 1827000001 | G 1/4 | 17 | 8.5 | 25 | 8 |
| 1827000002 | G 3/8 | 22 | 12 | 34 | 10 |
| 1827000003 | G 1/2 | 27 | 14.5 | 44 | 12 |
| 1827000004 | G 3/4 | 32 | 19 | 66 | 14 |
| 1827000005 | G 1 | 41 | 25 | 66 | 16 |

# Diagrams

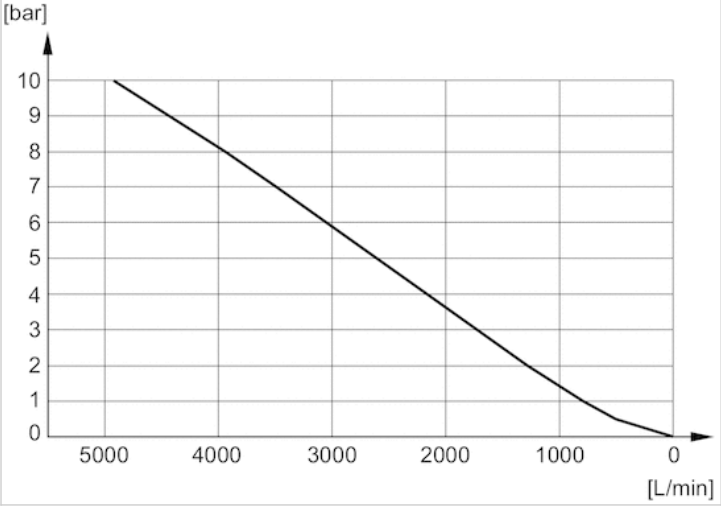
## Flow diagram 1827000006



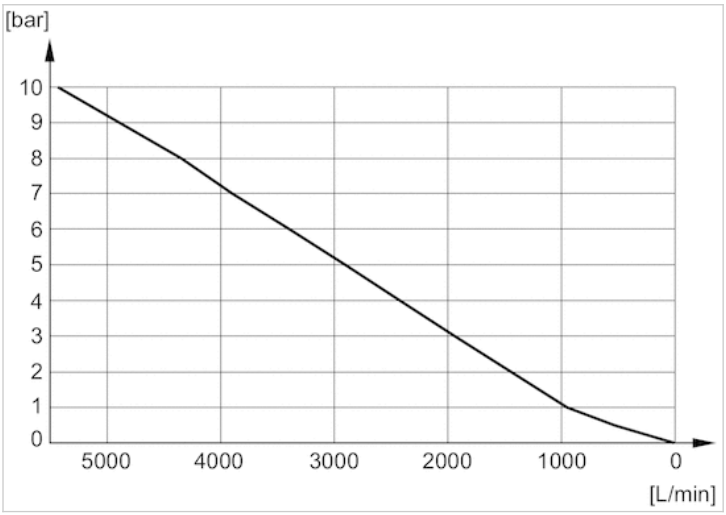

## Flow diagram 5324001110



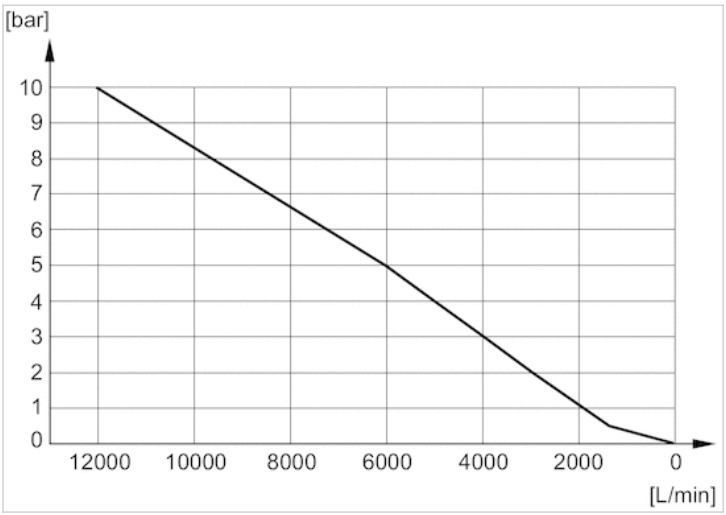

## Flow diagram 5324001170



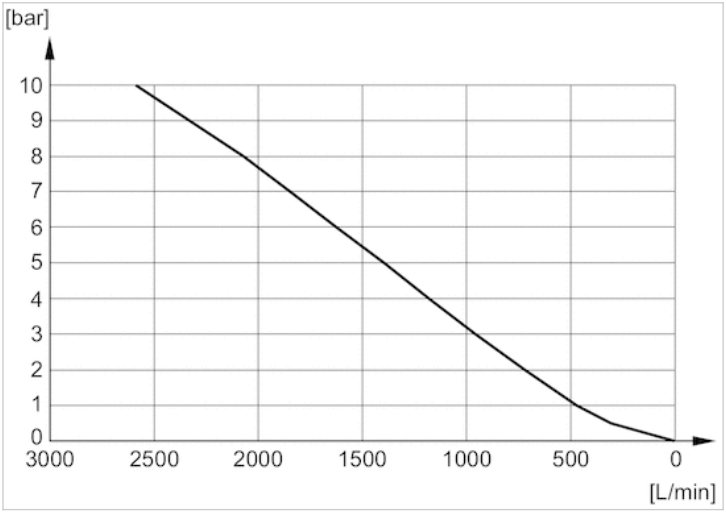
## Flow diagram 5324001120



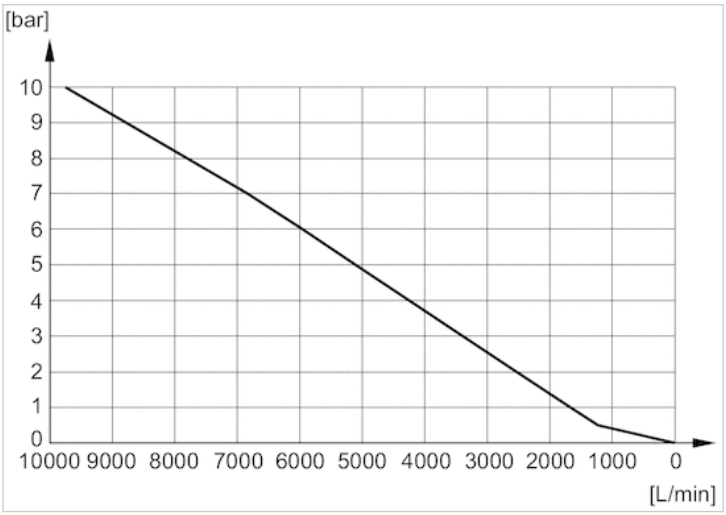

## Flow diagram 5324001140



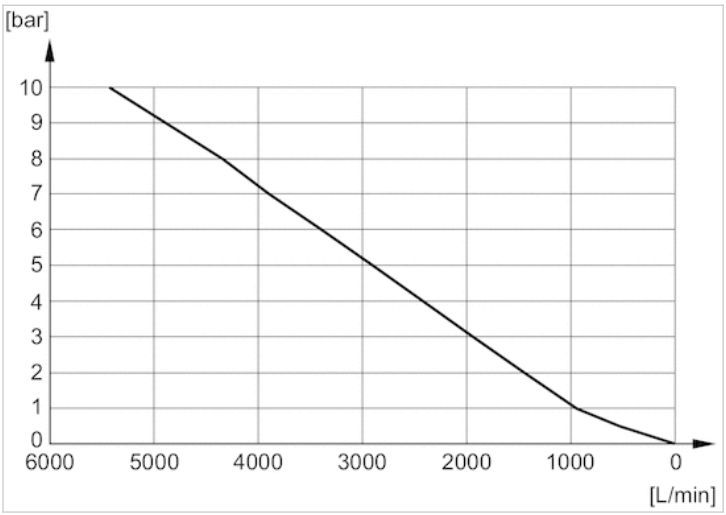

## Flow diagram 1827000000



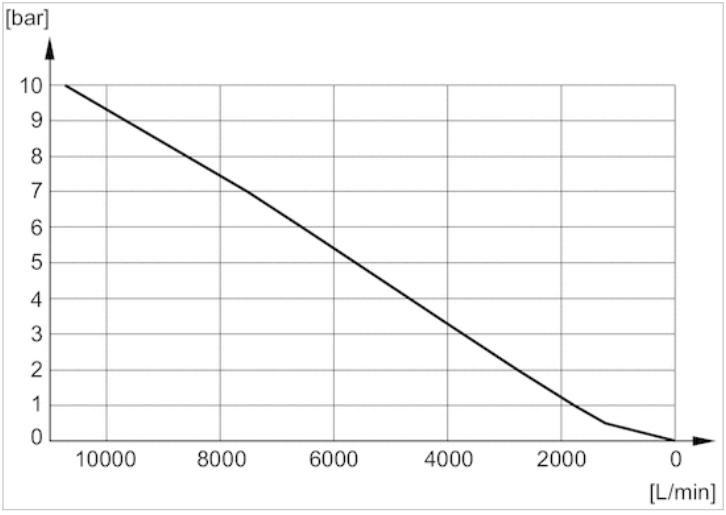
## Flow diagram R412004817



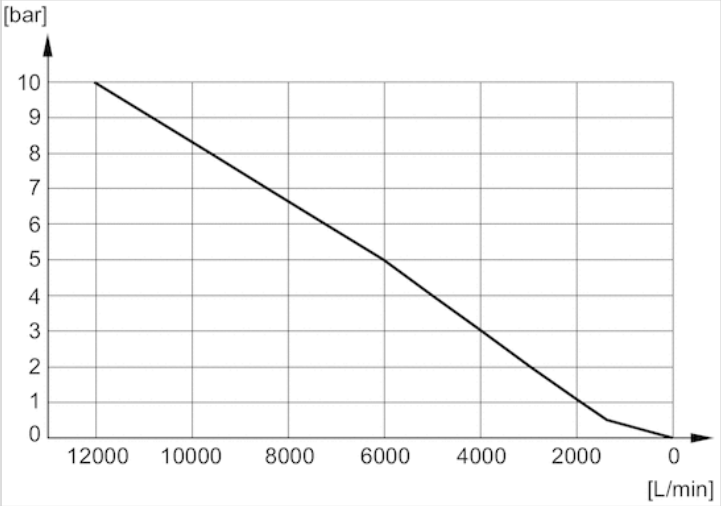

## Flow diagram 1827000001



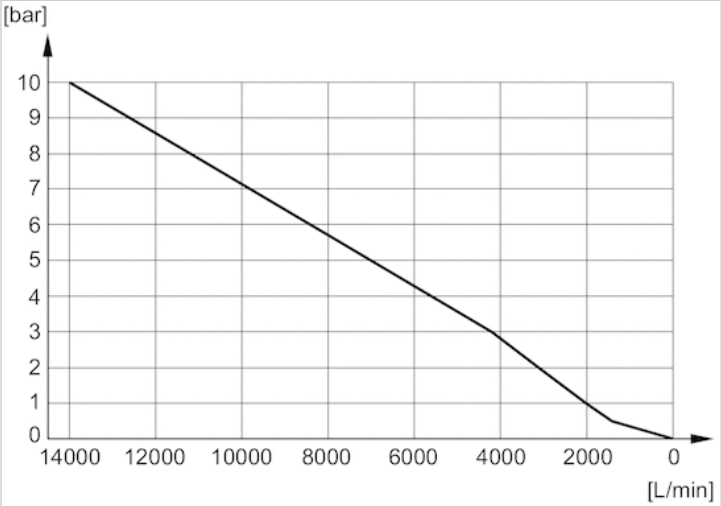

## Flow diagram 1827000002



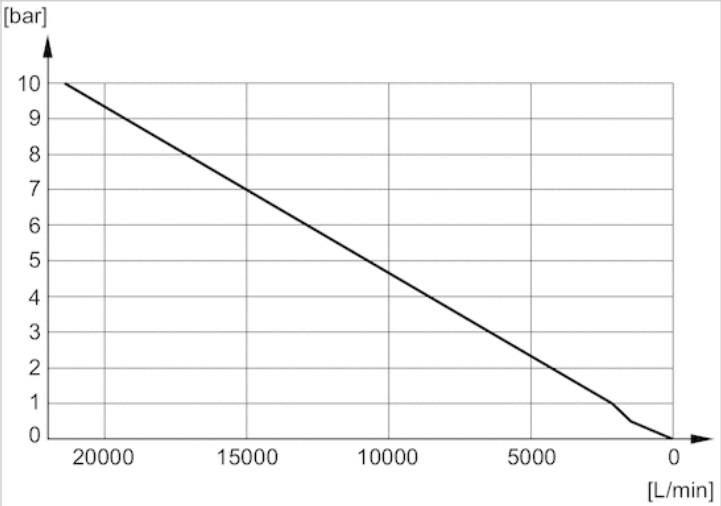
## Flow diagram 1827000003




## Flow diagram 1827000004

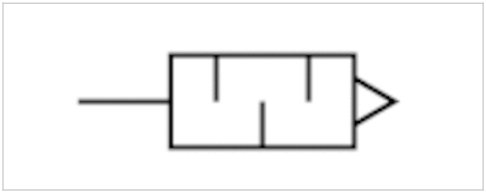



## Flow diagram 1827000005



# 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 | See table below |
| Weight | See table below |
| Comment | Flow characteristic curves can be found under “Diagrams”. |

## Technical data

| Part No. | Compressed air connection | Sound pressure level | Flow | Delivery unit | Weight |
|---|---|---|---|---|---|
| | | | Qn | | |
| 1827000032 | M5 | 79 dB | 252 l/min | 10 piece | 0,005 kg |
| 1827000031 | G 1/8 | 85 dB | 700 l/min | 10 piece | 0,001 kg |
| 1827000033 | G 1/4 | 88 dB | 1116 l/min | 10 piece | 0,01 kg |
| 1827000034 | G 3/8 | 90 dB | 1706 l/min | 5 piece | 0,016 kg |
| 1827000035 | G 1/2 | 85 dB | 2568 l/min | 2 piece | 0,035 kg |
| 8145003400 | G 3/4 | 82 dB | 3260 l/min | 1 piece | 0,095 kg |
| 8145001000 | G 1 | 82 dB | 9485 l/min | 1 piece | 0,057 kg |

Weight per piece

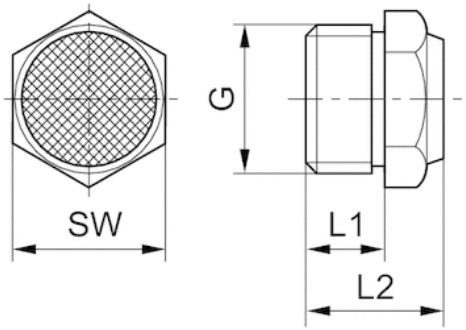
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

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

# Dimensions

## Dimensions



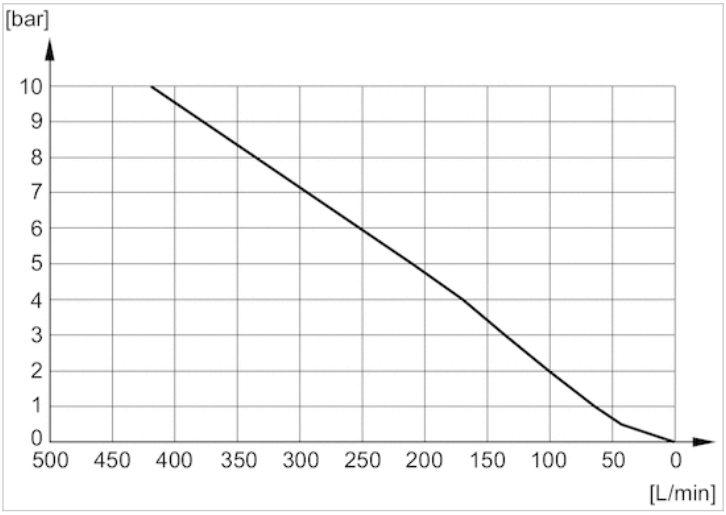

# Dimensions

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

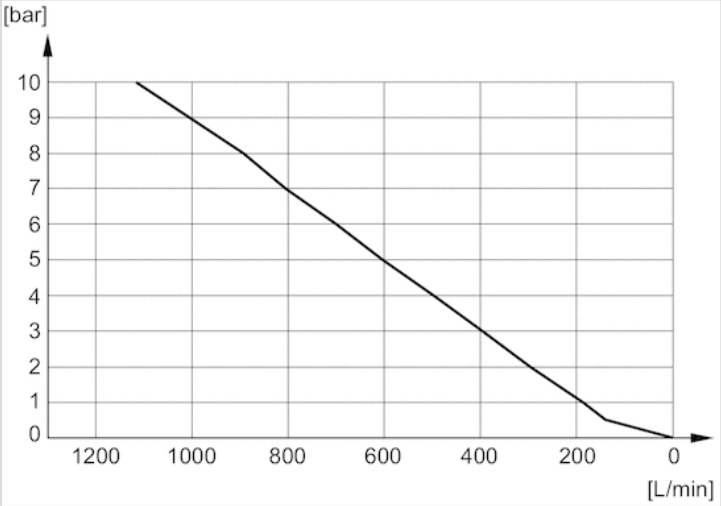
Sound pressure level measured at 6 bar at 1 m distance

# Diagrams

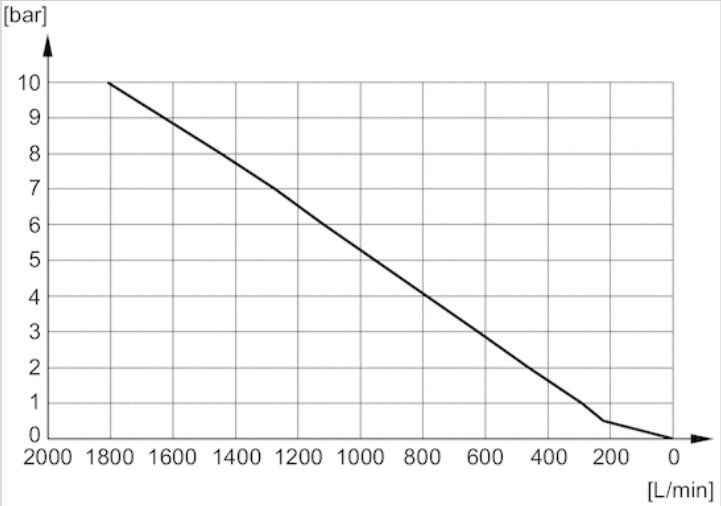
## Flow diagram 1827000032



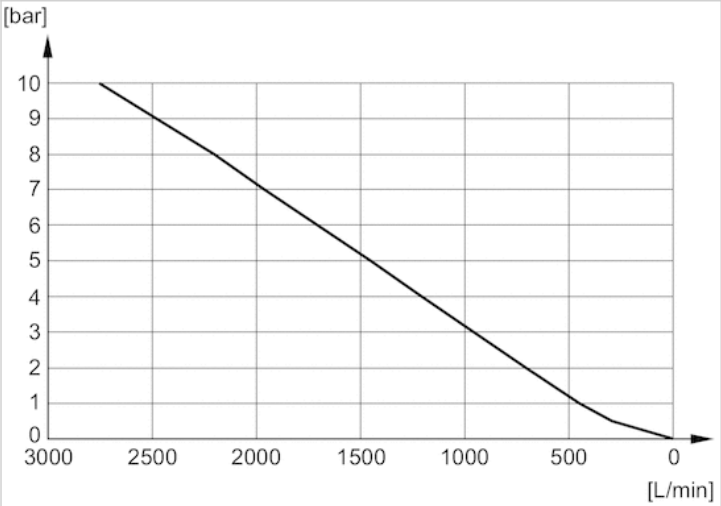
## Flow diagram 1827000031



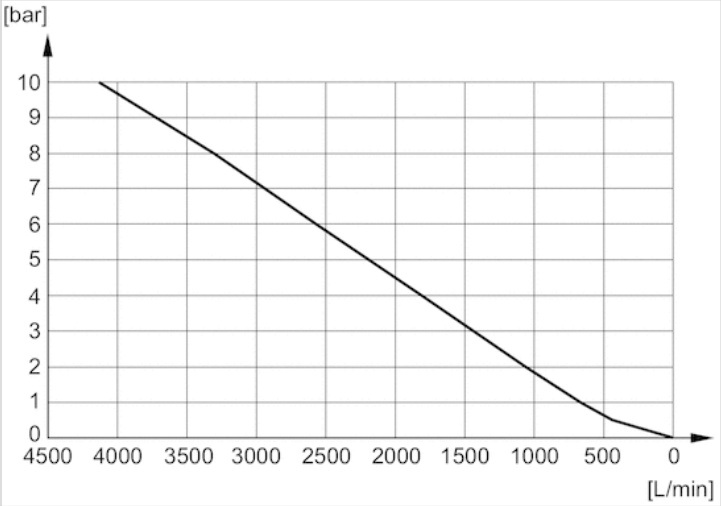

## Flow diagram 1827000033



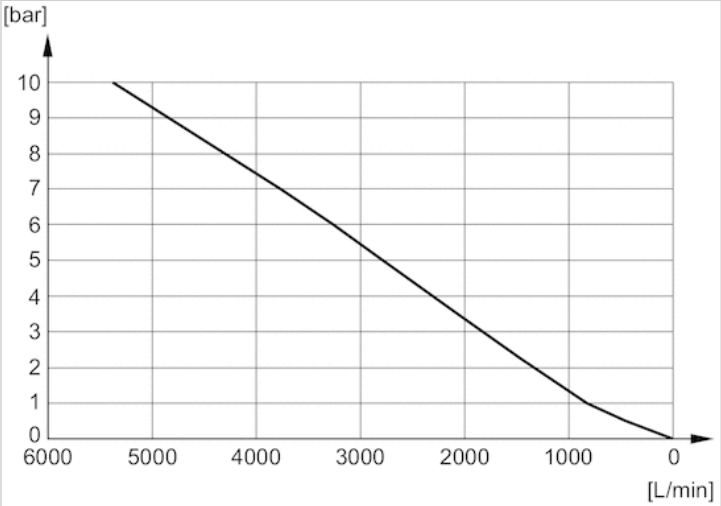

## Flow diagram 1827000034



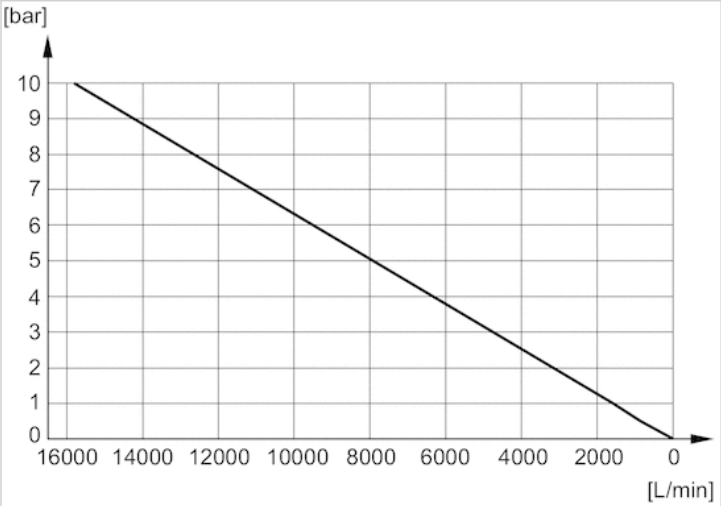
## Flow diagram 1827000035




## Flow diagram 8145003400

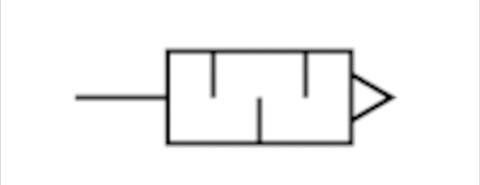



## Flow diagram 8145001000



# Silencers, series SI1

- Sintered bronze



| | |
|---|---|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Comment | Flow characteristic curves can be found under “Diagrams”. |

## Technical data

| Part No. | Compressed air connection | Flow | Delivery unit |
|---|---|---|---|
| | | Qn | |
| 1827430004 | G 1/8 | 311 l/min | 10 piece |
| R414000155 | G 1/4 | 553 l/min | 10 piece |
| R412007875 | G 3/8 | 743 l/min | 5 piece |
| R412007876 | G 1/2 | 1343 l/min | 2 piece |
| R412007877 | G 3/4 | 3585 l/min | 2 piece |
| R412007878 | G 1 | 5012 l/min | 2 piece |

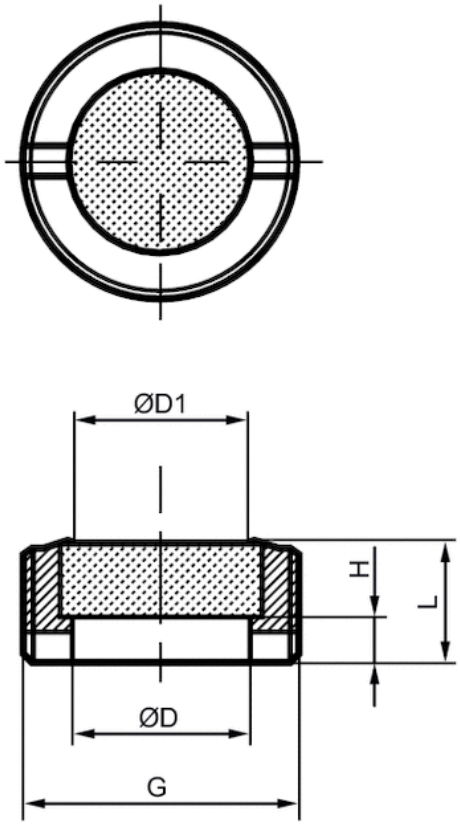
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

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

# Dimensions

## Dimensions

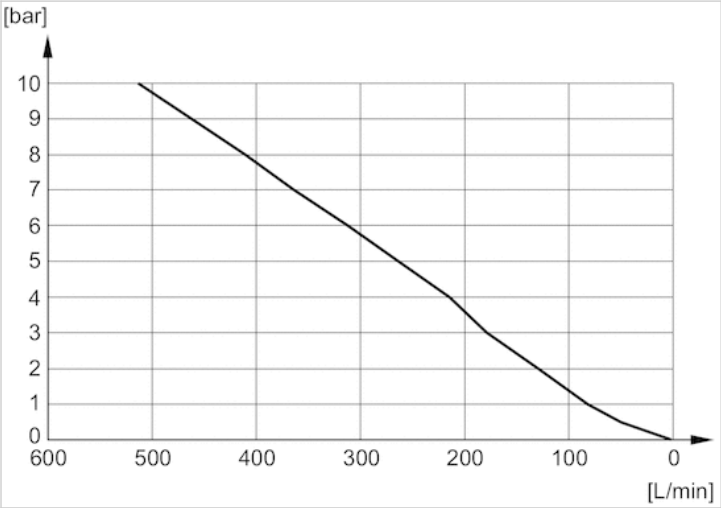



# Dimensions

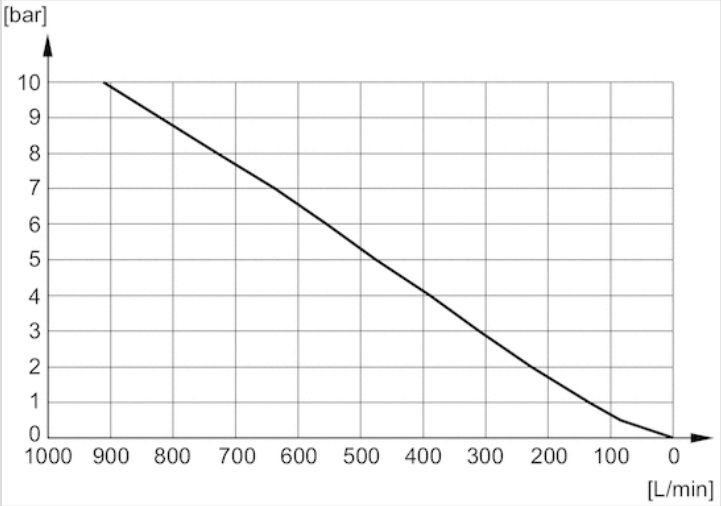
| Part No. | Port G | Ø D | Ø D1 | H | L |
|---|---|---|---|---|---|
| 1827430004 | G 1/8 | 6 | 5 | 2 | 4 |
| R414000155 | G 1/4 | 8 | 6 | 3 | 6 |
| R412007875 | G 3/8 | 10 | 8 | 3 | 7 |
| R412007876 | G 1/2 | 15 | 12 | 5 | 9 |
| R412007877 | G 3/4 | 20 | 17 | 3.4 | 8 |
| R412007878 | G 1 | 26 | 23 | 5.5 | 9.5 |

# Diagrams

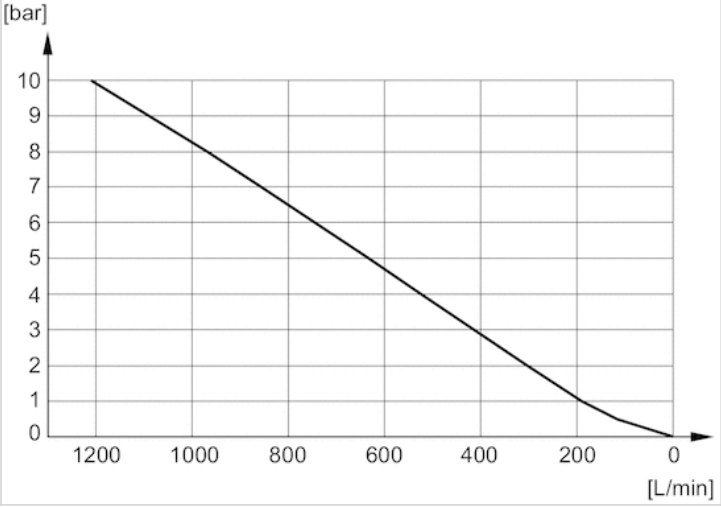
## Flow diagram 1827430004



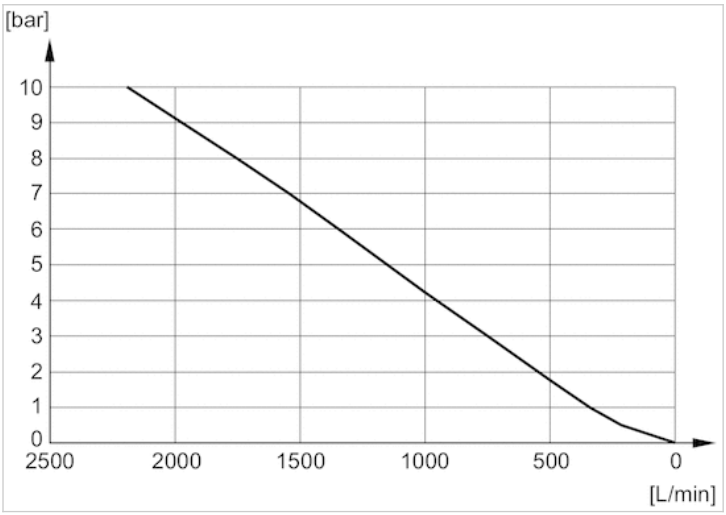

## Flow diagram R414000155



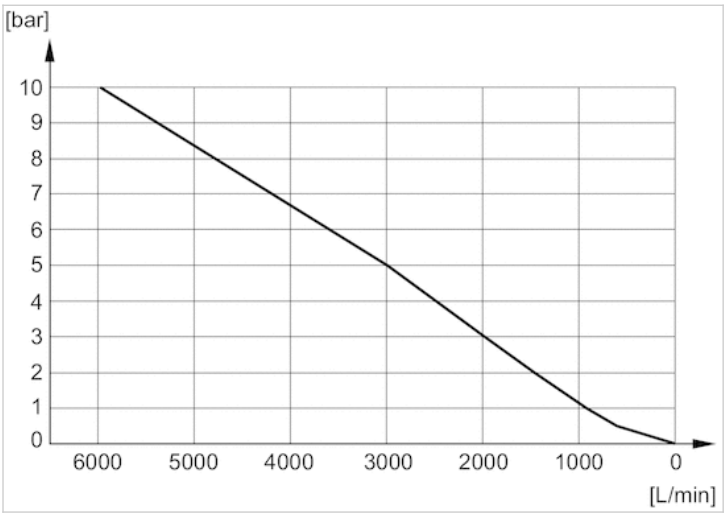

## R412007875



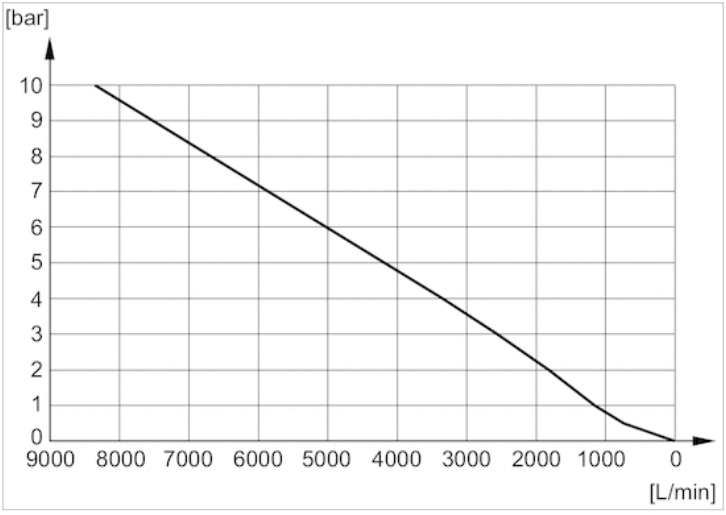
## Flow diagram R412007876




## Flow diagram R412007877

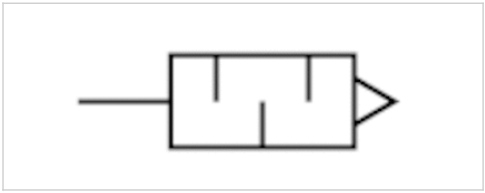



## Flow diagram R412007878



# Silencers, series SI1

- Stainless steel



| | |
|---|---|
| Working pressure min./max. | 0 ... 12 bar |
| Ambient temperature min./max. | -20 ... 150 °C |
| Medium | Compressed air |
| Sound pressure level | See table below |
| Weight | See table below |
| Comment | Flow characteristic curves can be found under “Diagrams”. |

## Technical data

| Part No. | Compressed air connection | Sound pressure level | Flow | Delivery unit | Weight |
|---|---|---|---|---|---|
| | | | Qn | | |
| R412010090 | M5 | 85 dB | 73 l/min | 1 piece | 0,003 kg |
| R412010081 | G 1/8 | 90 dB | 1312 l/min | 1 piece | 0,011 kg |
| R412010082 | G 1/4 | 93 dB | 1852 l/min | 1 piece | 0,021 kg |
| R412010083 | G 3/8 | 101 dB | 2678 l/min | 1 piece | 0,028 kg |
| R412010084 | G 1/2 | 95 dB | 5649 l/min | 1 piece | 0,048 kg |
| R412010085 | G 3/4 | 110 dB | 5945 l/min | 1 piece | 0,076 kg |
| R412010086 | G 1 | 100 dB | 7206 l/min | 1 piece | 0,099 kg |

Weight per piece

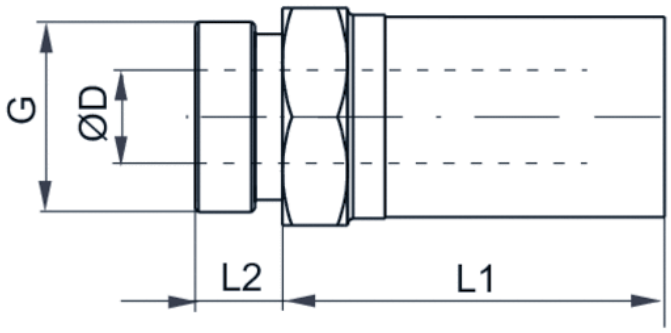
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

| Material | |
|---|---|
| Silencers | Stainless steel |
| Thread | Stainless steel |

# Dimensions

## Dimensions

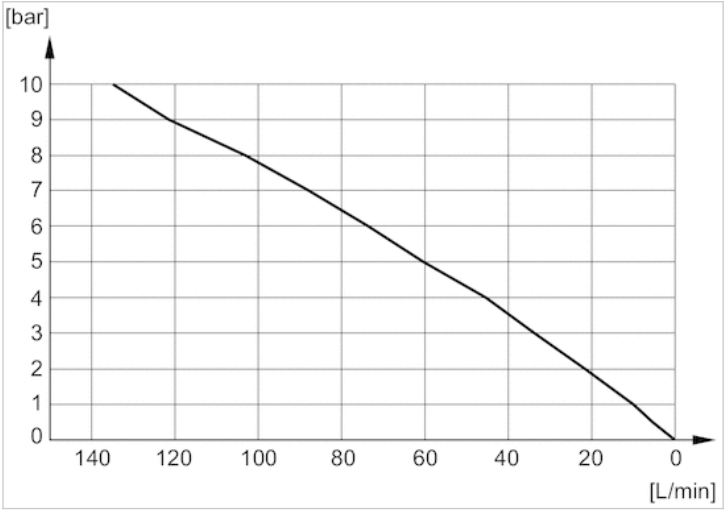



# Dimensions

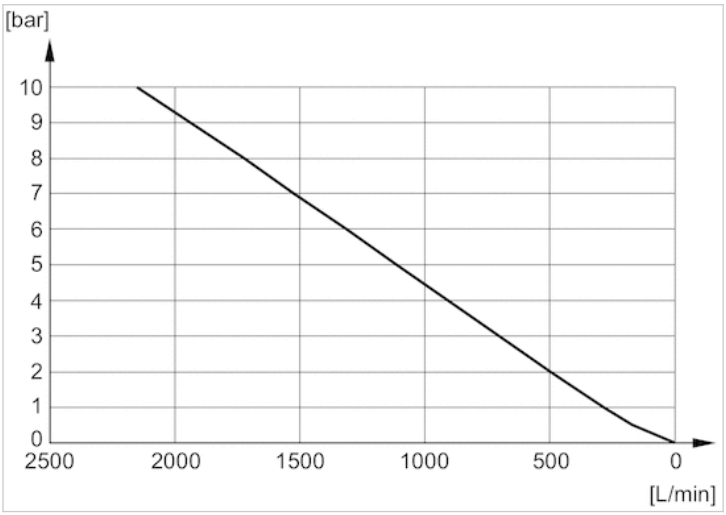
| Part No. | Port G | SW | Ø D | L1 | L2 |
|---|---|---|---|---|---|
| R412010090 | M5 | 8 | 3.1 | 10.5 | 3.5 |
| R412010081 | G 1/8 | 13 | 6.6 | 20 | 6 |
| R412010082 | G 1/4 | 16 | 8.6 | 29.5 | 7.5 |
| R412010083 | G 3/8 | 19 | 12.1 | 33.5 | 7.5 |
| R412010084 | G 1/2 | 24 | 15.3 | 39.5 | 9.5 |
| R412010085 | G 3/4 | 30 | 19.3 | 45 | 10 |
| R412010086 | G 1 | 36 | 25.5 | 49.5 | 11.5 |

# Diagrams

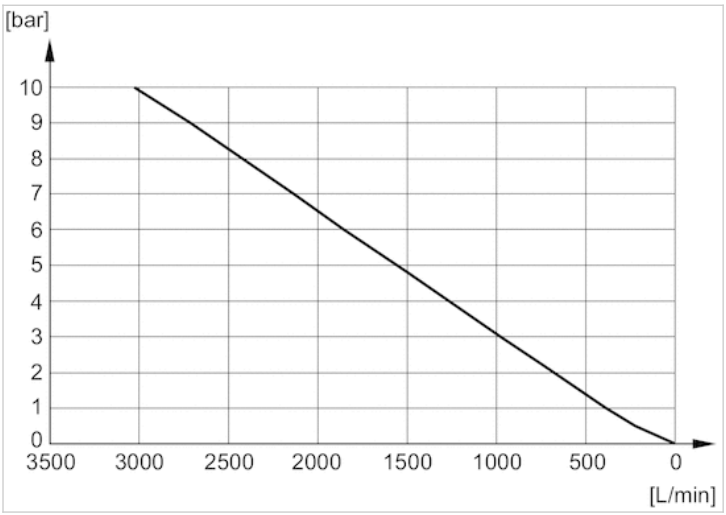
## Flow diagram R412010090



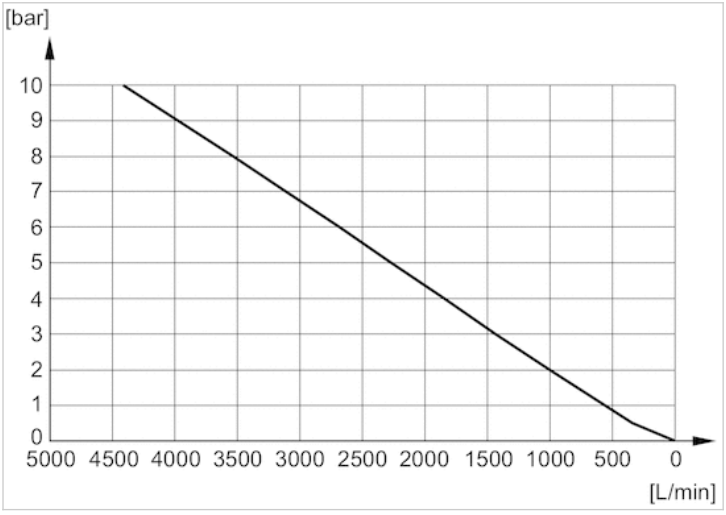
## Flow diagram R412010081



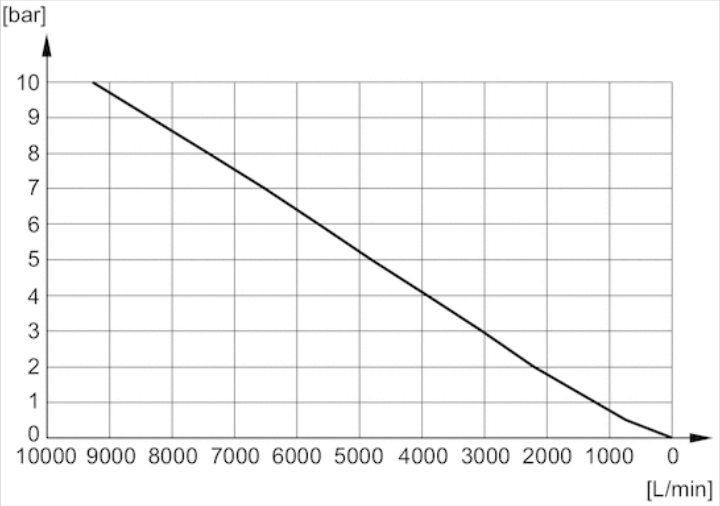

## Flow diagram R412010082



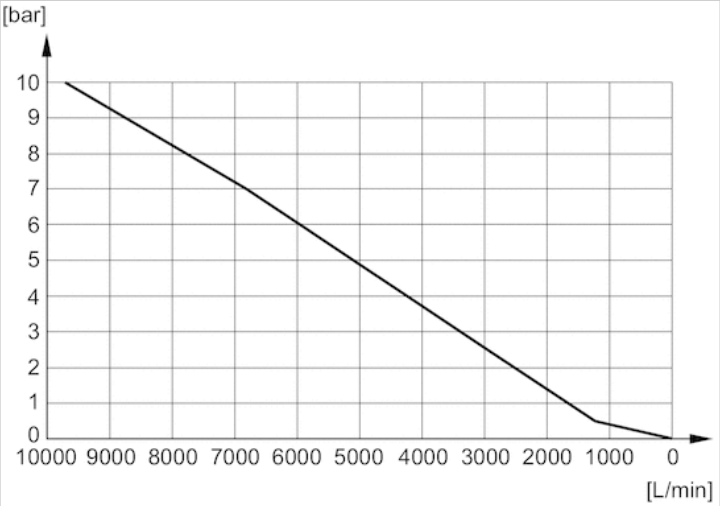

## Flow diagram R412010083



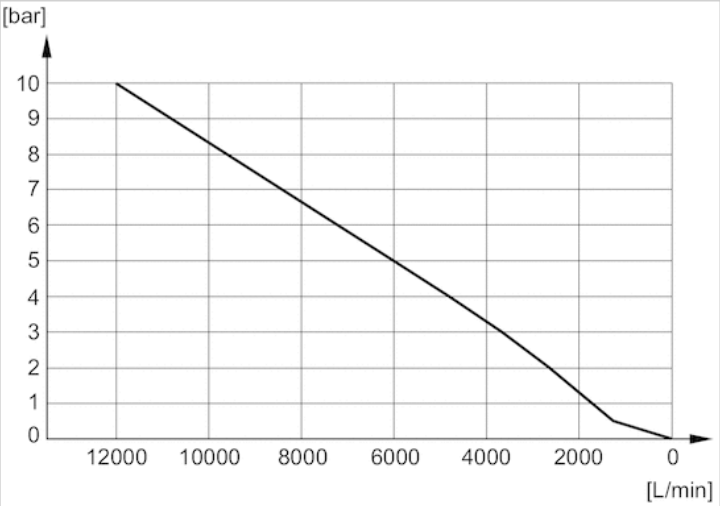
## Flow diagram R412010084




## Flow diagram R412010085

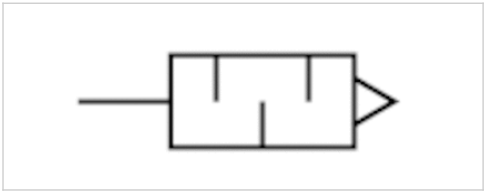



## Flow diagram R412010086



# Silencers, series SI1

- Polyethylene



| | |
|---|---|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Sound pressure level | See table below |
| Weight | See table below |
| Comment | Flow characteristic curves can be found under “Diagrams”. |

## Technical data

| Part No. | Compressed air connection | Sound pressure level | Flow | Delivery unit | Weight |
|---|---|---|---|---|---|
| | | | Qn | | |
| 1827000018 | M5 | - | 381 l/min | 5 piece | 0,001 kg |
| 1827000019 | G 1/8 | 78 dB | 1560 l/min | 5 piece | 0,002 kg |
| 1827000020 | G 1/4 | 80 dB | 3447 l/min | 5 piece | 0,003 kg |
| 1827000021 | G 3/8 | 85 dB | 5682 l/min | 2 piece | 0,008 kg |
| 1827000022 | G 1/2 | 88 dB | 7142 l/min | 1 piece | 0,013 kg |
| 1827000023 | G 3/4 | - | 8356 l/min | 1 piece | 0,04 kg |
| 1827000024 | G 1 | - | 13329 l/min | 1 piece | 0,055 kg |

Weight per piece

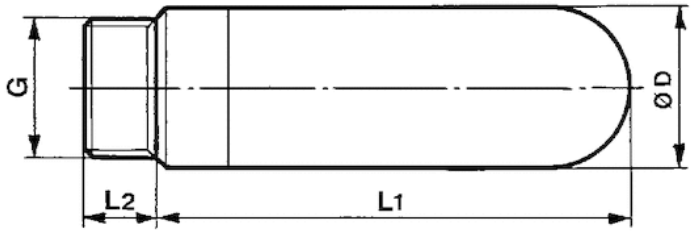
Nominal flow Qn at p1 = 6 bar (absolute) freely discharged. Sound pressure level measured at 6 bar against atmosphere at 1 m distance.

## Technical information

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

# Dimensions

## Dimensions

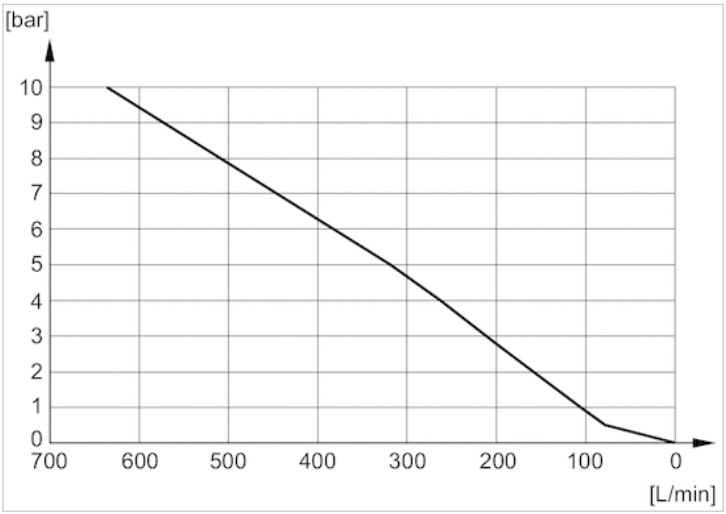



# Dimensions

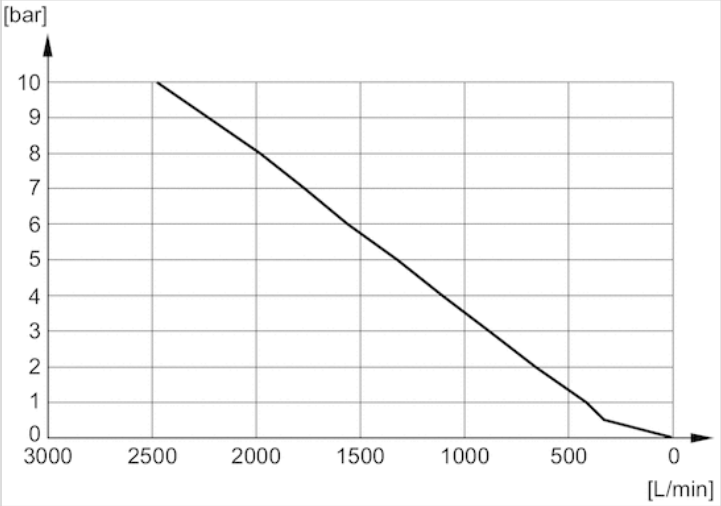
| Part No. | Port G | Ø D | L1 | L2 |
|---|---|---|---|---|
| 1827000018 | M5 | 6.5 | 17.5 | 4 |
| 1827000019 | G 1/8 | 12.5 | 28.5 | 5.5 |
| 1827000020 | G 1/4 | 15.5 | 34.5 | 8 |
| 1827000021 | G 3/8 | 18.5 | 56 | 11.5 |
| 1827000022 | G 1/2 | 23.3 | 66.5 | 11 |
| 1827000023 | G 3/4 | 38.5 | 115.5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

# Diagrams

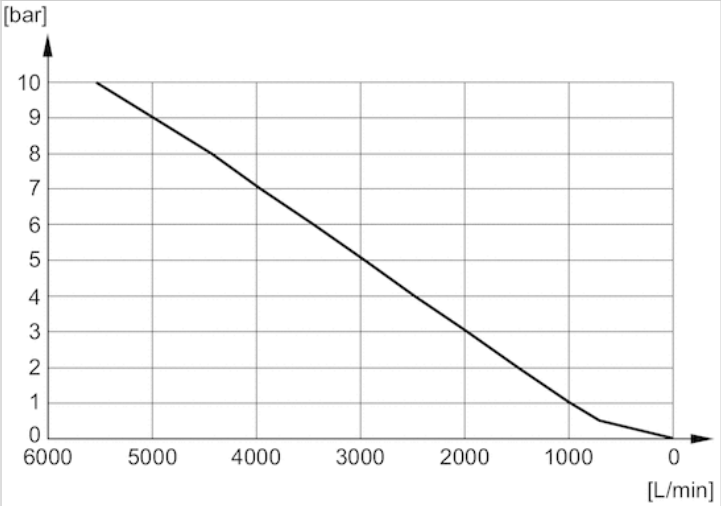
## Flow diagram 1827000018



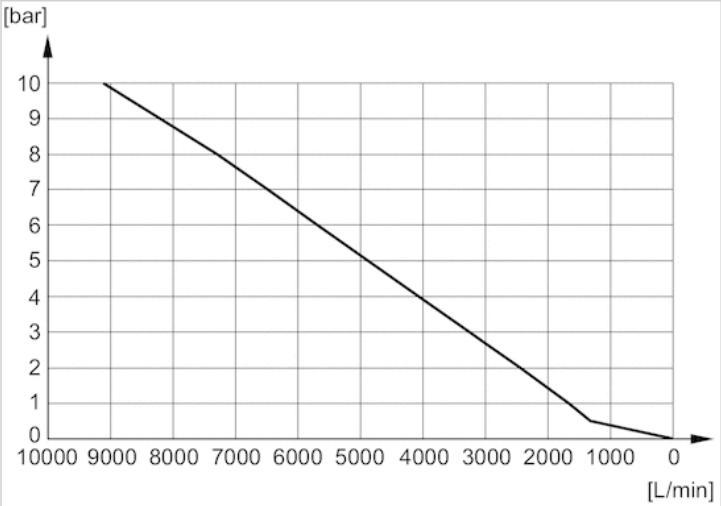
## Flow diagram 1827000019



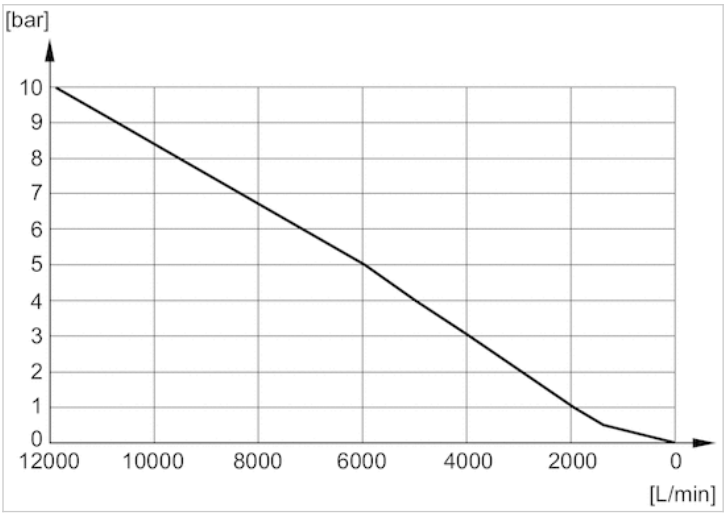

## Flow diagram 1827000020



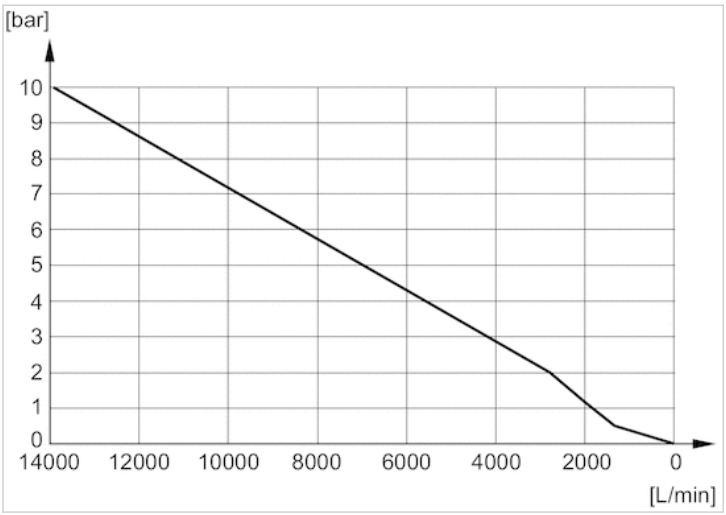

## Flow diagram 1827000021



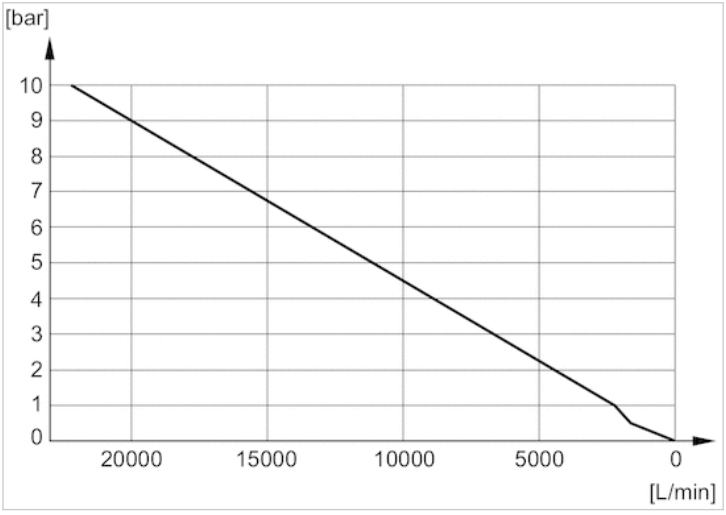
## Flow diagram 1827000022




## Flow diagram 1827000023




## Flow diagram 1827000024



# Blanking plate, for series CD07

| | |
|---|---|
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Number of valve positions,max. | 1 |
| Weight | 0,181 kg |

## Technical data

| Part No. |
|---|
| 3354601024 |

## Technical information

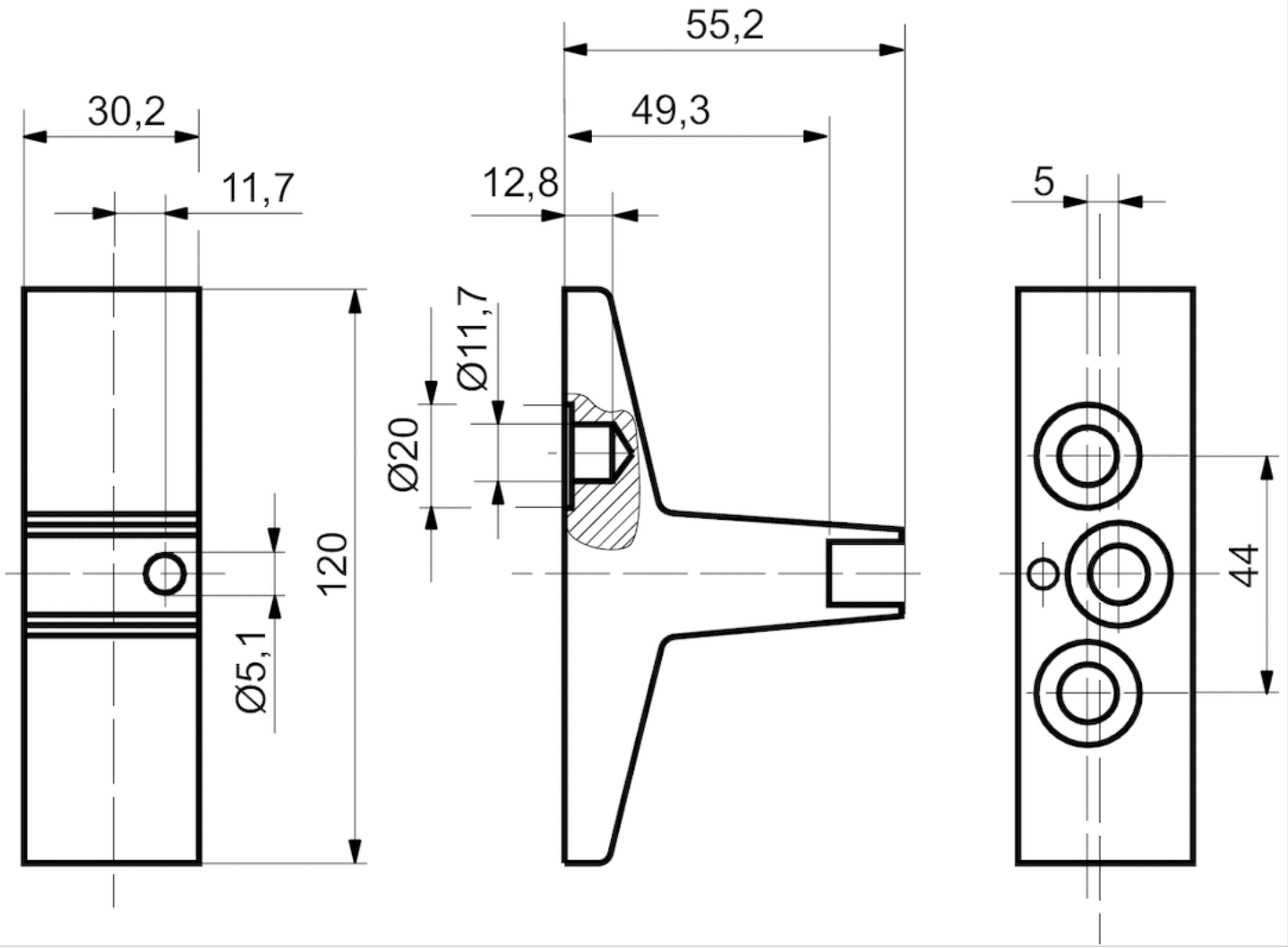
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Base plate | Aluminum |
| Seal | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions



# P-manifold

- for CD07
- 5/2 and 5/3-directional valves

| | |
|---|---|
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Exhaust (3,5) | uncollected exhaust |
| Weight | See table below |

## Technical data

| Part No. | Compressed air connection Input [1] | Number of valve positions | Weight |
|---|---|---|---|
| 3337120222 | Ø 10x1 | 2 | 0,277 kg |
| 3337120232 | Ø 10x1 | 3 | 0,338 kg |
| 3337120242 | Ø 10x1 | 4 | 0,401 kg |
| 3337120252 | Ø 10x1 | 5 | 0,462 kg |
| 3337120262 | Ø 10x1 | 6 | 0,52 kg |
| 3337120272 | Ø 10x1 | 7 | 0,595 kg |
| 3337120282 | Ø 10x1 | 8 | 0,64 kg |
| 3337120292 | Ø 10x1 | 9 | 0,705 kg |
| 3337120302 | Ø 10x1 | 10 | 0,773 kg |
| 3337120312 | Ø 10x1 | 11 | 0,82 kg |
| 3337120322 | Ø 10x1 | 12 | 0,914 kg |

## Technical information

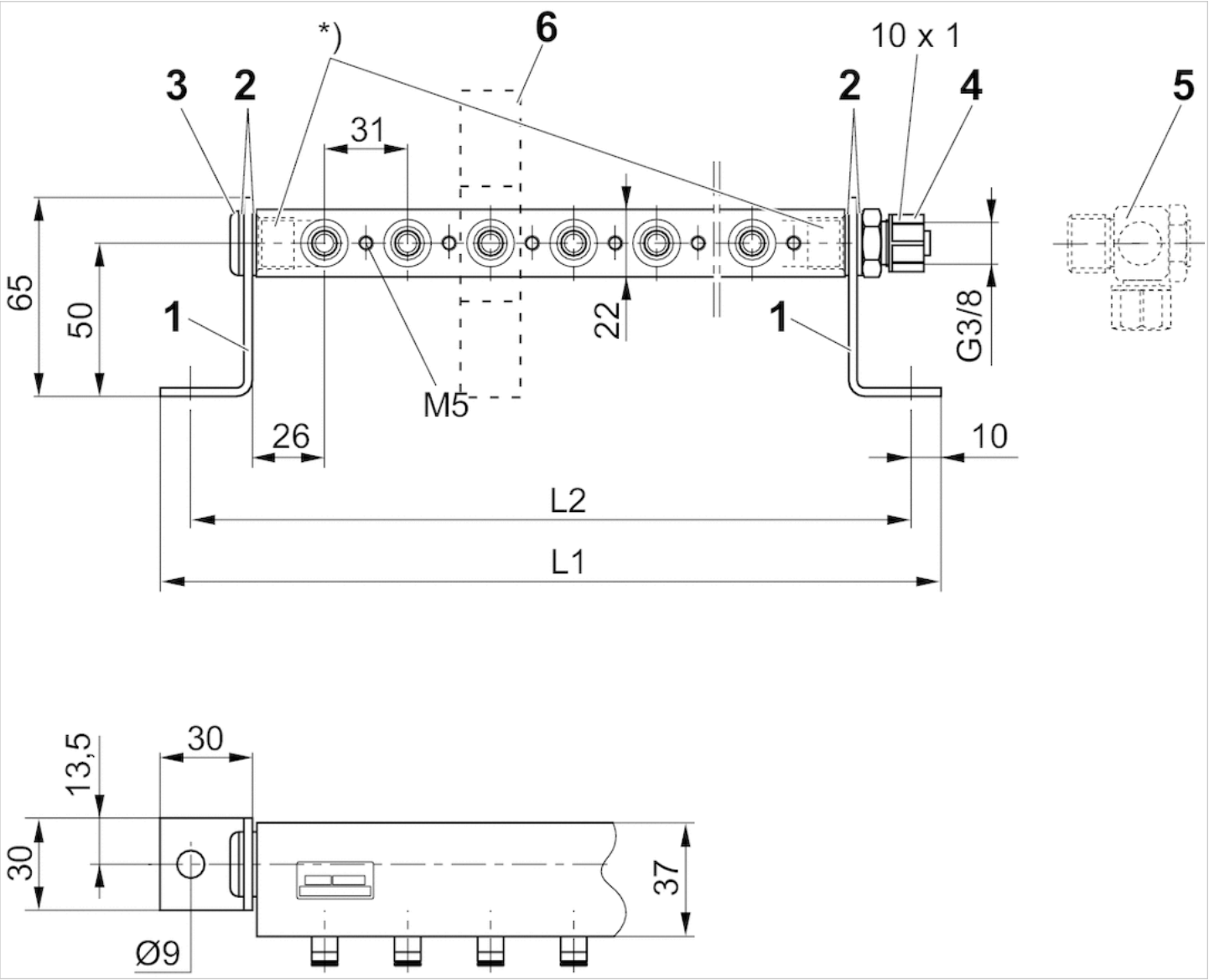
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Base plate | Aluminum, Polyoxymethylene |
| Seal | Acrylonitrile butadiene rubber |
| Mounting bracket | Steel |

# Dimensions

## Dimensions




Angled bracket (1); seal DIN 7603 Al (2); blanking screw G 3/8 ISO 228/1 (3); push-in fittings G 3/8 ISO 228/1, diameter 10x1 (4); valve mounting screws (depending on the valve used): washer, screw, O-ring must be ordered separately: push-in fittings (5)
* Only use fittings with max. length of thread engagement equal to 12 mm.

# Dimensions

| Part No. | L1 | L2 |
|---|---|---|
| 3337120222 | 152 | 132 |
| 3337120232 | 183 | 163 |
| 3337120242 | 214 | 194 |
| 3337120252 | 245 | 225 |
| 3337120262 | 276 | 256 |
| 3337120272 | 307 | 287 |
| 3337120282 | 338 | 318 |
| 3337120292 | 369 | 349 |
| 3337120302 | 400 | 380 |

| Part No. | L1 | L2 |
|---|---|---|
| 3337120312 | 431 | 411 |
| 3337120322 | 462 | 442 |

# R, P, S subbase, Series CD07

| | |
|---|---|
| Compressed air connection | according to ISO 228-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -25 ... 80 °C |
| Medium temperature min./max. | -25 ... 80 °C |
| Medium | Compressed air |
| Exhaust (3,5) | With directional exhaust (3/5) |
| Exhaust type | Ports separated |
| Weight | See table below |

## Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Exhaust [3 / 5] |
|---|---|---|
| 8985072042 | G 1/2 | G 1/2 |
| 8985072062 | G 1/2 | G 1/2 |
| 8985072082 | G 1/2 | G 1/2 |
| 8985072102 | G 1/2 | G 1/2 |
| 8985072122 | G 1/2 | G 1/2 |

| Part No. | Compressed air connection Pilot connection [X] | Number of valve positions | Weight |
|---|---|---|---|
| 8985072042 | G 1/8 | 4 | 1,45 kg |
| 8985072062 | G 1/8 | 6 | 1,94 kg |
| 8985072082 | G 1/8 | 8 | 2,42 kg |
| 8985072102 | G 1/8 | 10 | 2,94 kg |
| 8985072122 | G 1/8 | 12 | 3,4 kg |

## Technical information

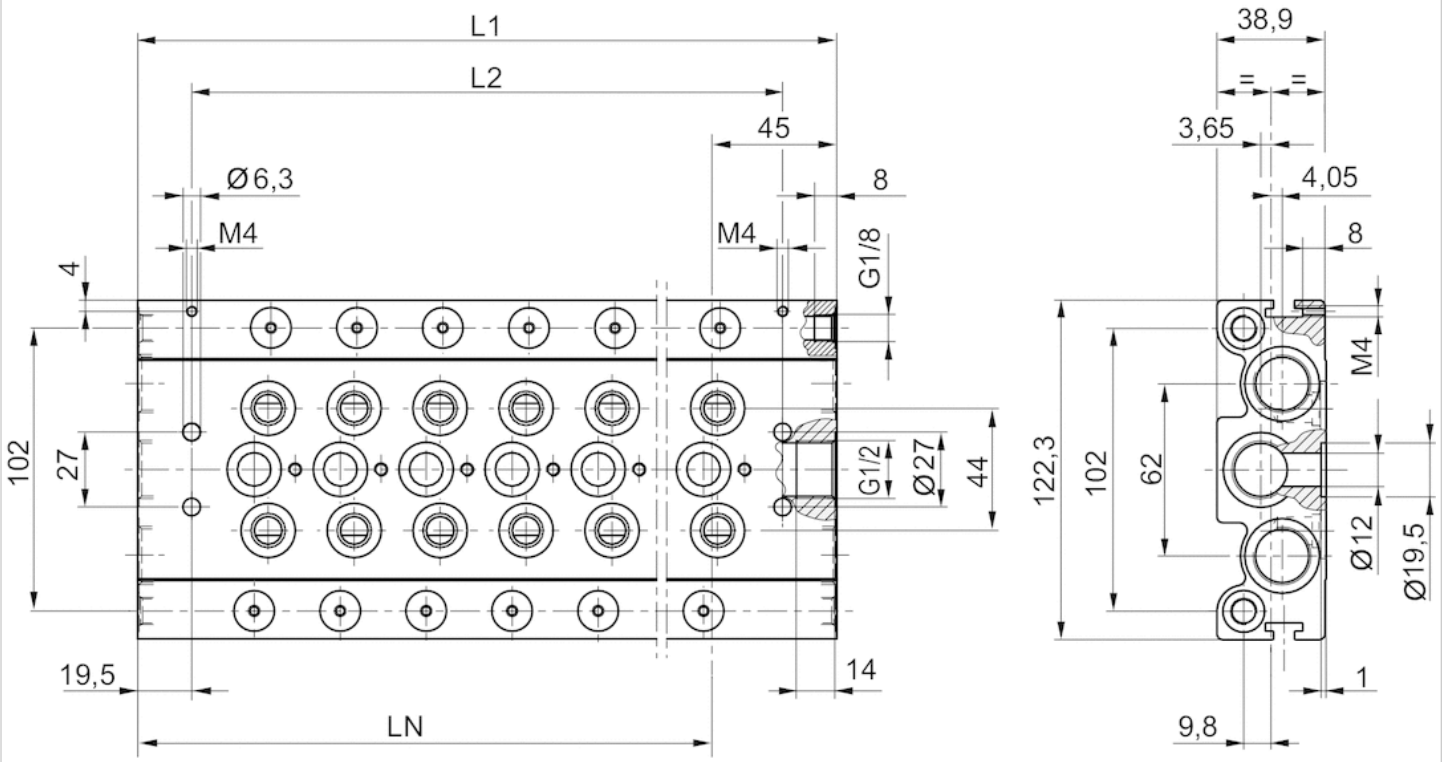
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

## Technical information

| Material | |
|---|---|
| Base plate | Aluminum, Polyoxymethylene |
| Seal | Acrylonitrile butadiene rubber |

# Dimensions

## Dimensions




# Dimensions

| Part No. | L1 | L2 | LN |
|---|---|---|---|
| 8985072042 | 183 | 144 | 138 |
| 8985072062 | 245 | 206 | 200 |
| 8985072082 | 307 | 268 | 262 |
| 8985072102 | 369 | 330 | 324 |
| 8985072122 | 431 | 392 | 386 |

# Accessories, Series CD07

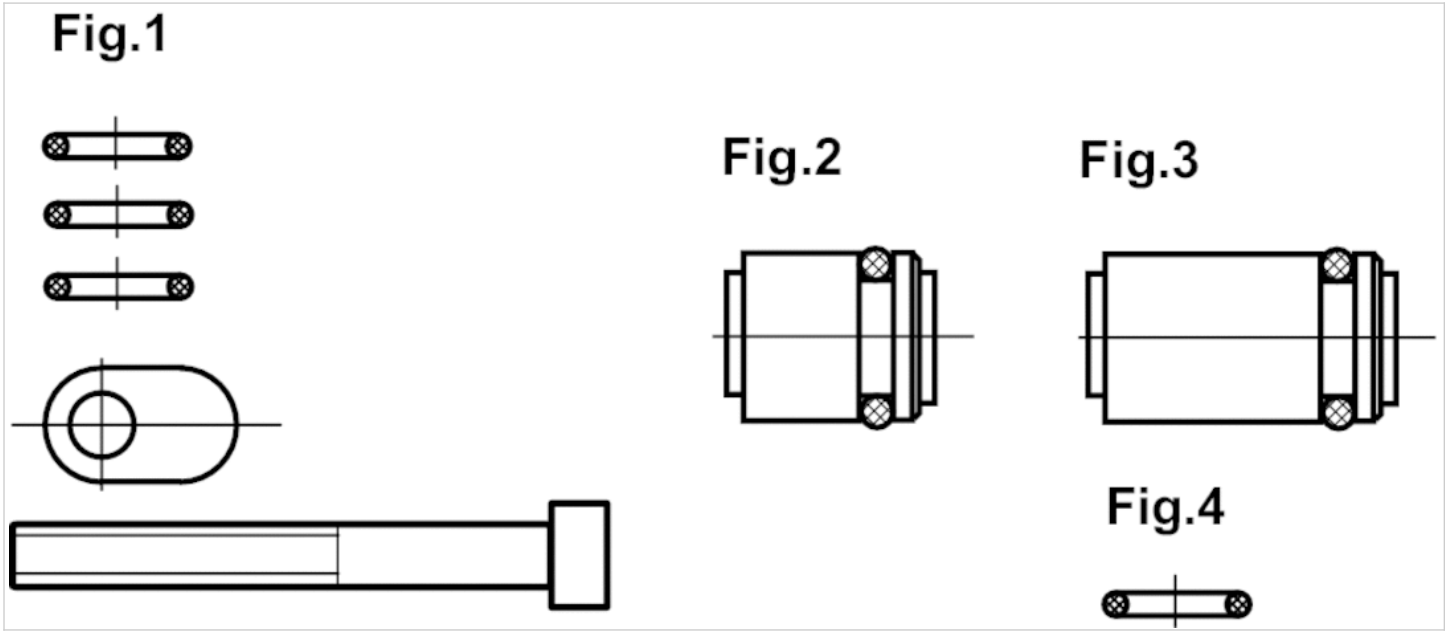
Weight See table below

## Technical data

| Part No. | Fig. | Type |
|---|---|---|
| 3354600002 | Fig. 1 | Mounting kit for 10 valves, delivery includes: 30 seals, 10 washers, and 10 mounting screws. |
| 8970810404 | Fig. 4 | Seal for external pilot |
| 3354600082 | Fig. 2 | P plug |
| 3354600072 | Fig. 3 | R/S plug |

| Part No. | Suitable for | Delivery unit | Weight |
|---|---|---|---|
| 3354600002 | R, P, S subbase | 1 piece | 0,125 kg |
| 8970810404 | R, P, S subbase | 1 piece | 0,001 kg |
| 3354600082 | R, P, S subbase | 1 piece | 0,022 kg |
| 3354600072 | R, P, S subbase | 1 piece | 0,023 kg |

## Dimensions



# Kit, Series CD07

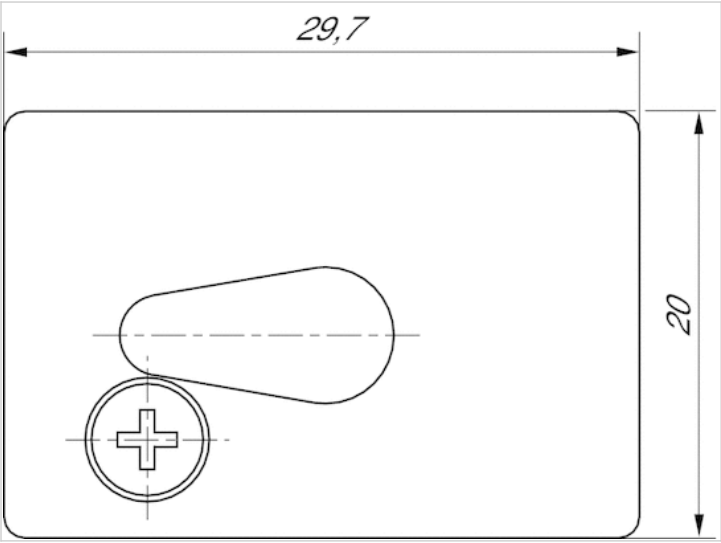
- for manual override

Weight 0,004 kg

## Technical data

| Part No. | Suitable for | Delivery unit |
|---|---|---|
| 5420900002 | Manual override lock | 1 piece |

## Dimensions



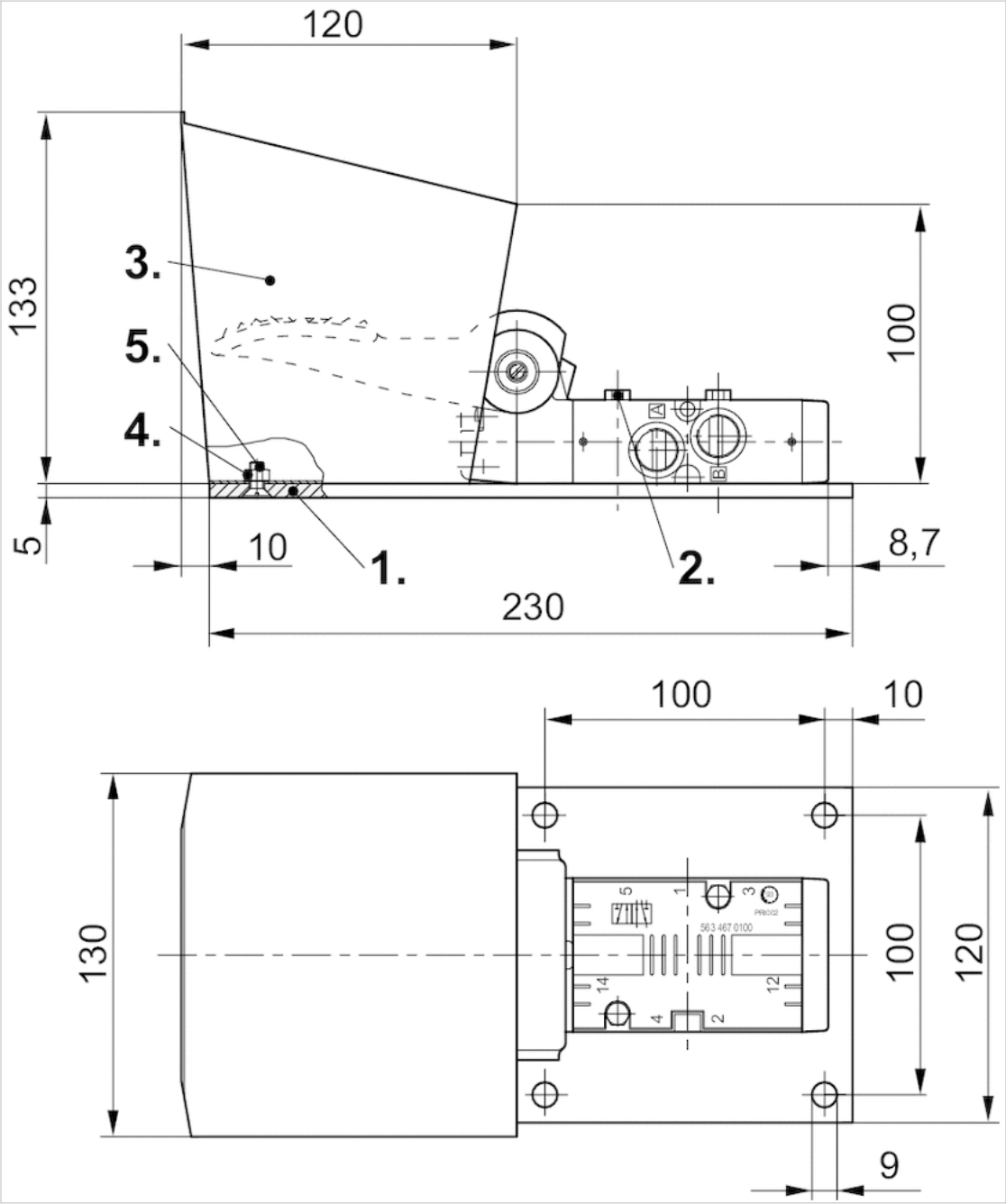
# Accessories, Series CD07

## Technical data

| Part No. | Type | Delivery unit |
|---|---|---|
| 5631174514 | Protective cover | 1 piece |

# Dimensions

## Dimensions




1) Mounting plate
2) Hexagon screw M5x35
3) Protective cover
4) Screw M5x12 (not included in scope of delivery)
5) Hexagonal nut M5 (not included in the delivery contents)

# Accessories, Series CD07

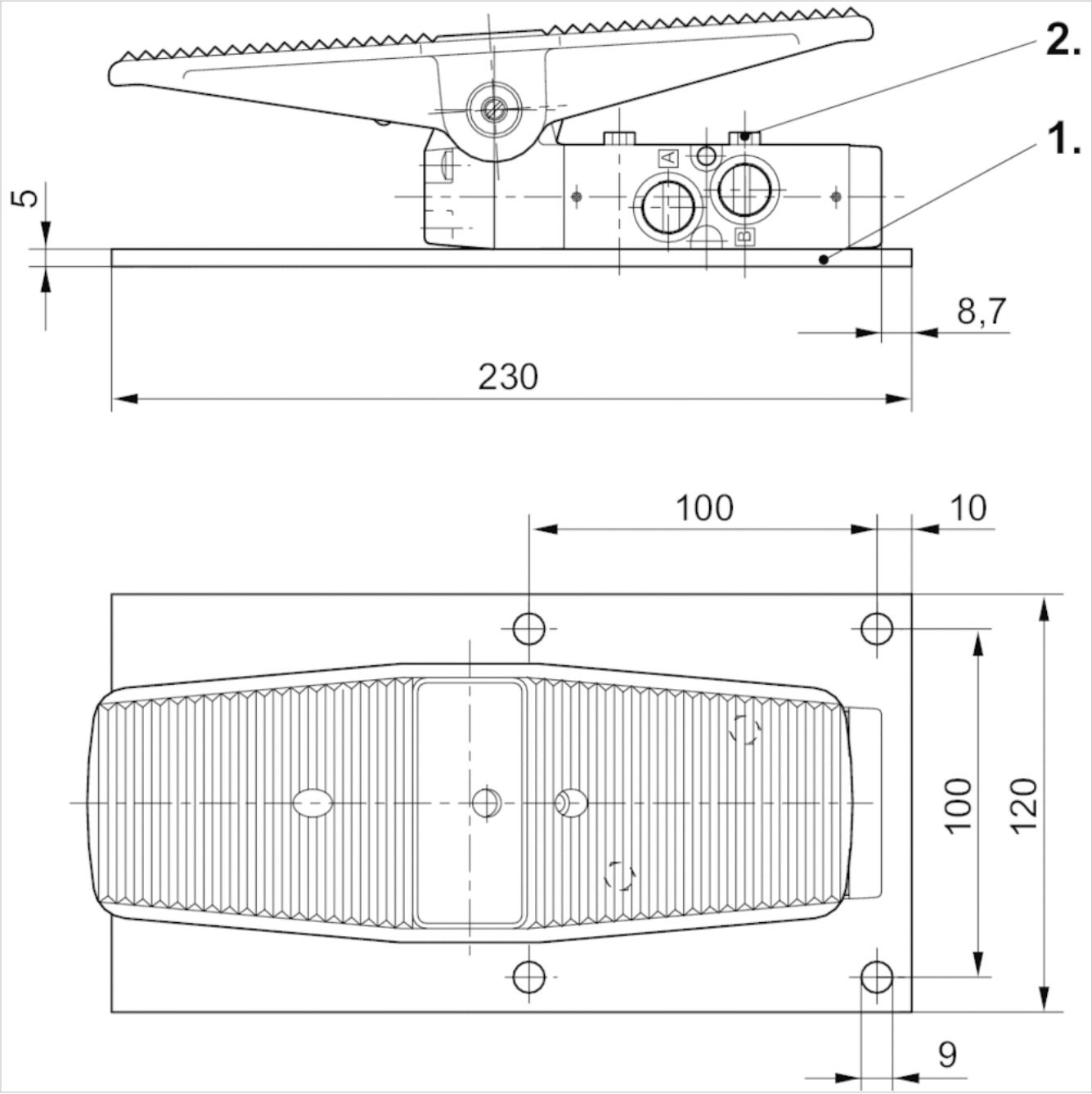
## Technical data

| Part No. | Type | Delivery unit |
|---|---|---|
| 5631171004 | Mounting plate | 1 piece |
| 8101260304 | Hexagon screw M5x35 | 1 piece |

Mounting plate, Hexagon screw M5x35

# Dimensions

## Dimensions




1) Mounting plate
2) Hexagon screw M5x35