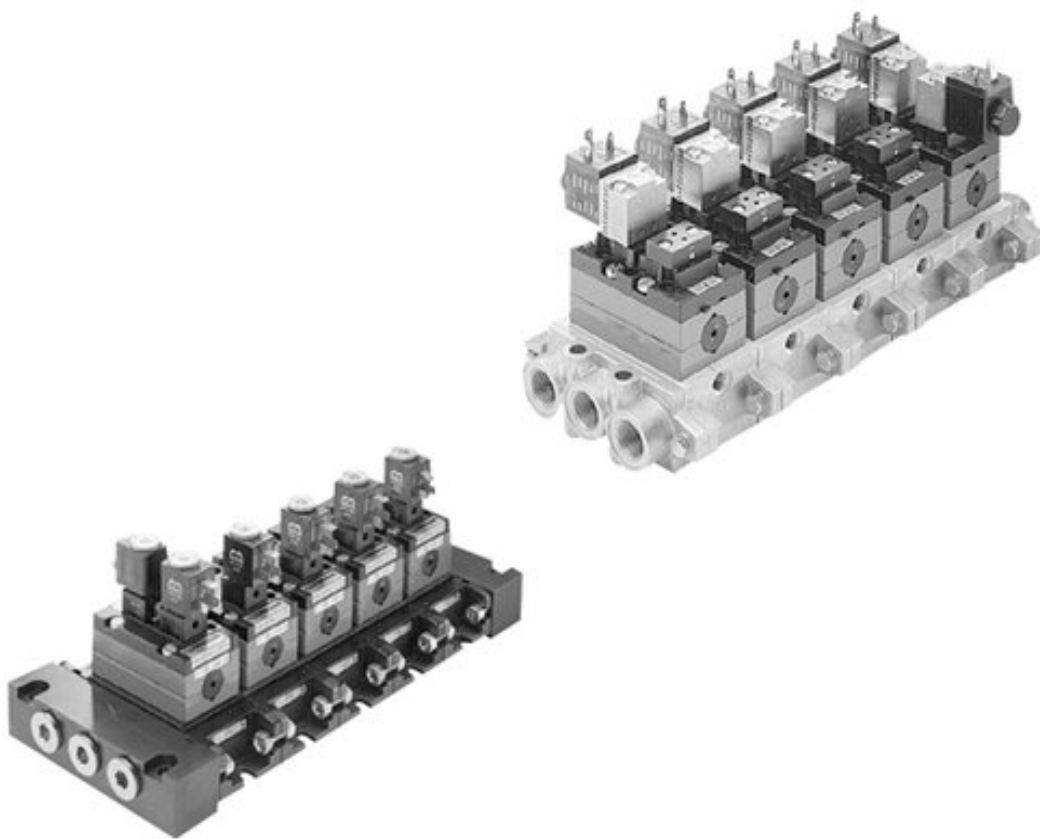


Series 581, size 4

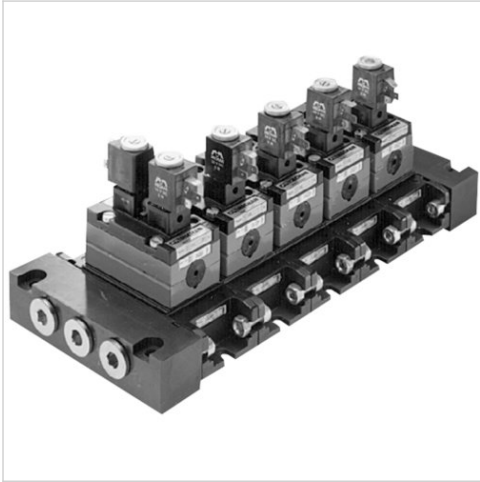


AVENTICS™ Series 581, size 4



Valve system, Series 581, size 4


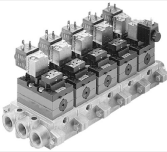
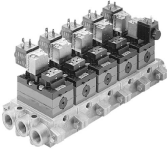

- Configurable valve systems



| | |
|----------------------------------|-----------------------------|
| Blocking principle | Single base plate principle |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 5000 l/min |
| Protection class with connection | IP65 |
| Voltage tolerance DC | -10% / +10% |
| Voltage tolerance AC 50 Hz | -10% / +10% |

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Overview of variants

| | Version | You have the following options: |
|---|-------------------------------|---|
|  | 22 mm pilot valve width | Compressed air connection output Base plate ISO 5599-1 Electrical connection Single plug-in wiring Valve plug connector form B industry Manual override: with detent |
|  | 30 mm CNOMO pilot valve width | Compressed air connection output Base plate ISO 5599-1 Manual override: with detent |
|  | 30 mm CNOMO pilot valve width | Compressed air connection output Base plate ISO 5599-1 manual override: without detent |
|  | Pneumatically operated | Compressed air connection output Base plate ISO 5599-1 |

Technical information

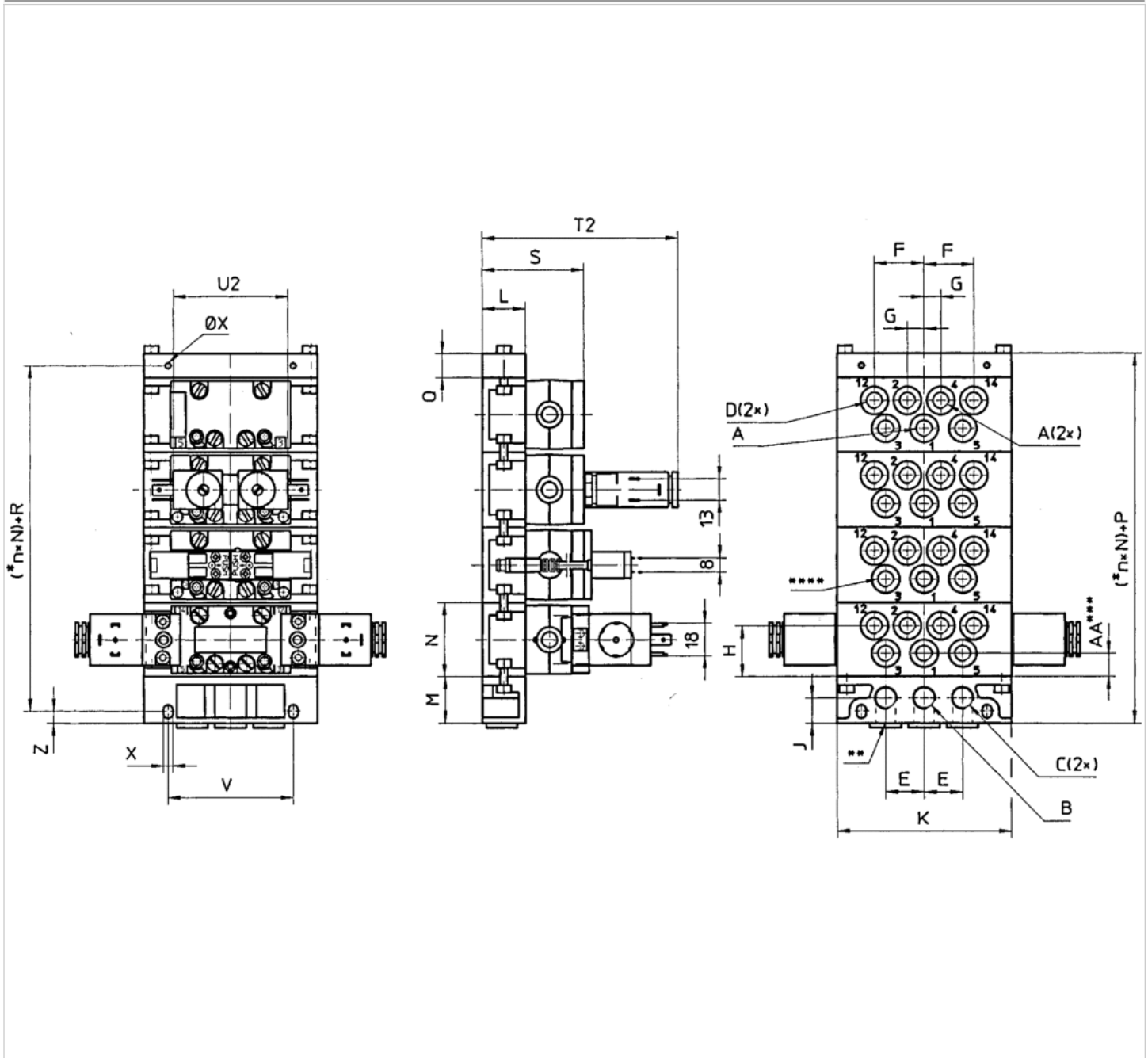
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| | |
|----------|----------------------------------|
| Material | |
| Plug box | Polyamide fiber-glass reinforced |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

22 mm pilot valve width, valve plug connector without standard (form B industry), all ports on bottom



* n = number of subbases.

** Alternative port openings, closed with plugs.

*** Only on subbases with separate intake.

**** Subbase 5801680000 can also be connected to port 3 and 5.

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

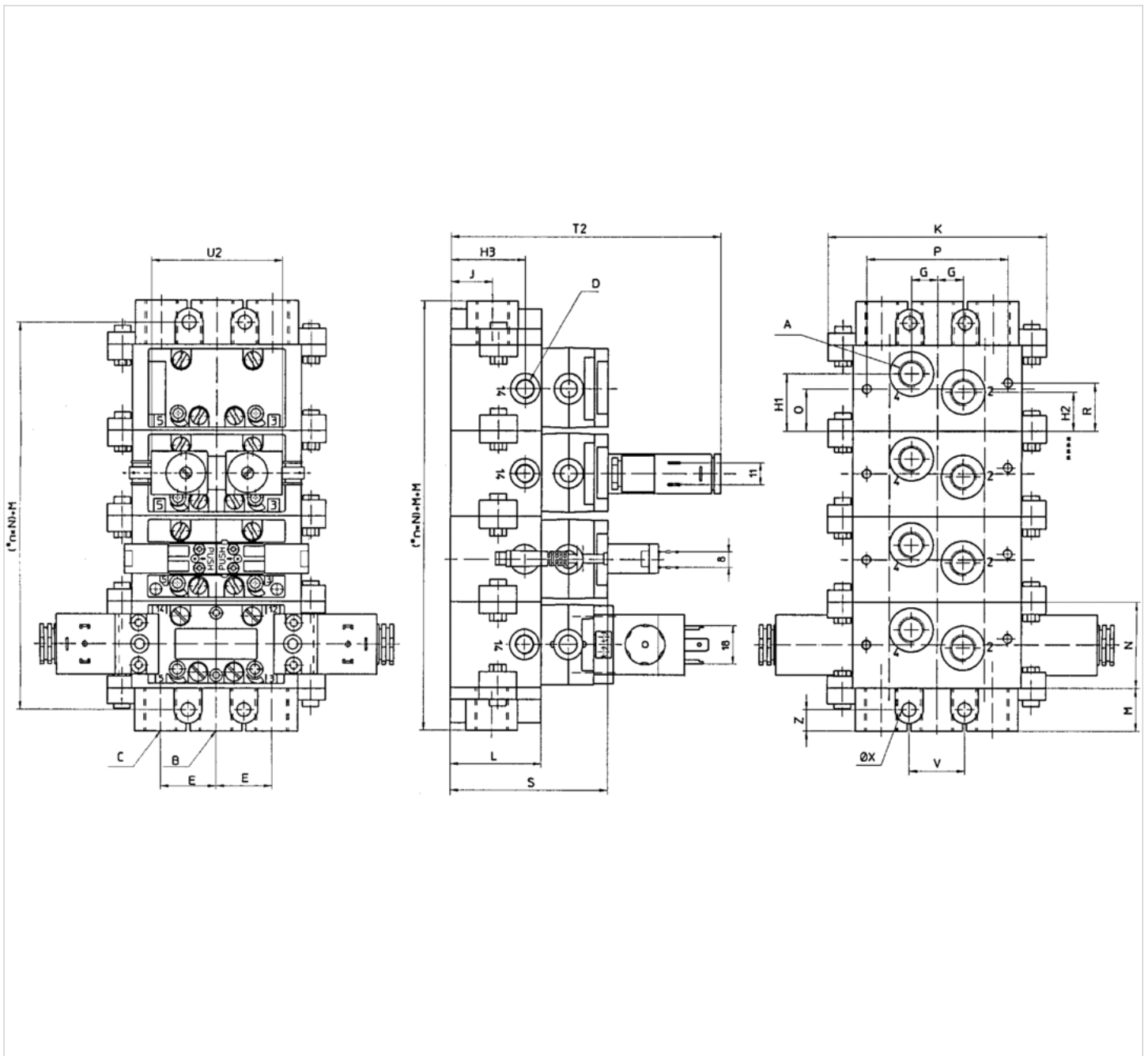
Dimensions

| | |
|--------------|-------|
| A | G 1/2 |
| B | G 3/4 |
| C | G 3/4 |
| D | G 1/8 |
| E | 44 |
| F | 60.5 |
| G | 22 |
| H | 53.5 |
| J | 24 |
| K | 190 |
| L | 43 |
| M | 44 |
| N | 82 |
| P (=M+Q) | 64 |
| Q | 20 |
| R (=Q/2+M-Z) | 45 |
| S | 105 |
| V | 146 |
| X | 8.4 |
| Z | 10 |
| T2 | 159 |
| U2 | 144 |

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

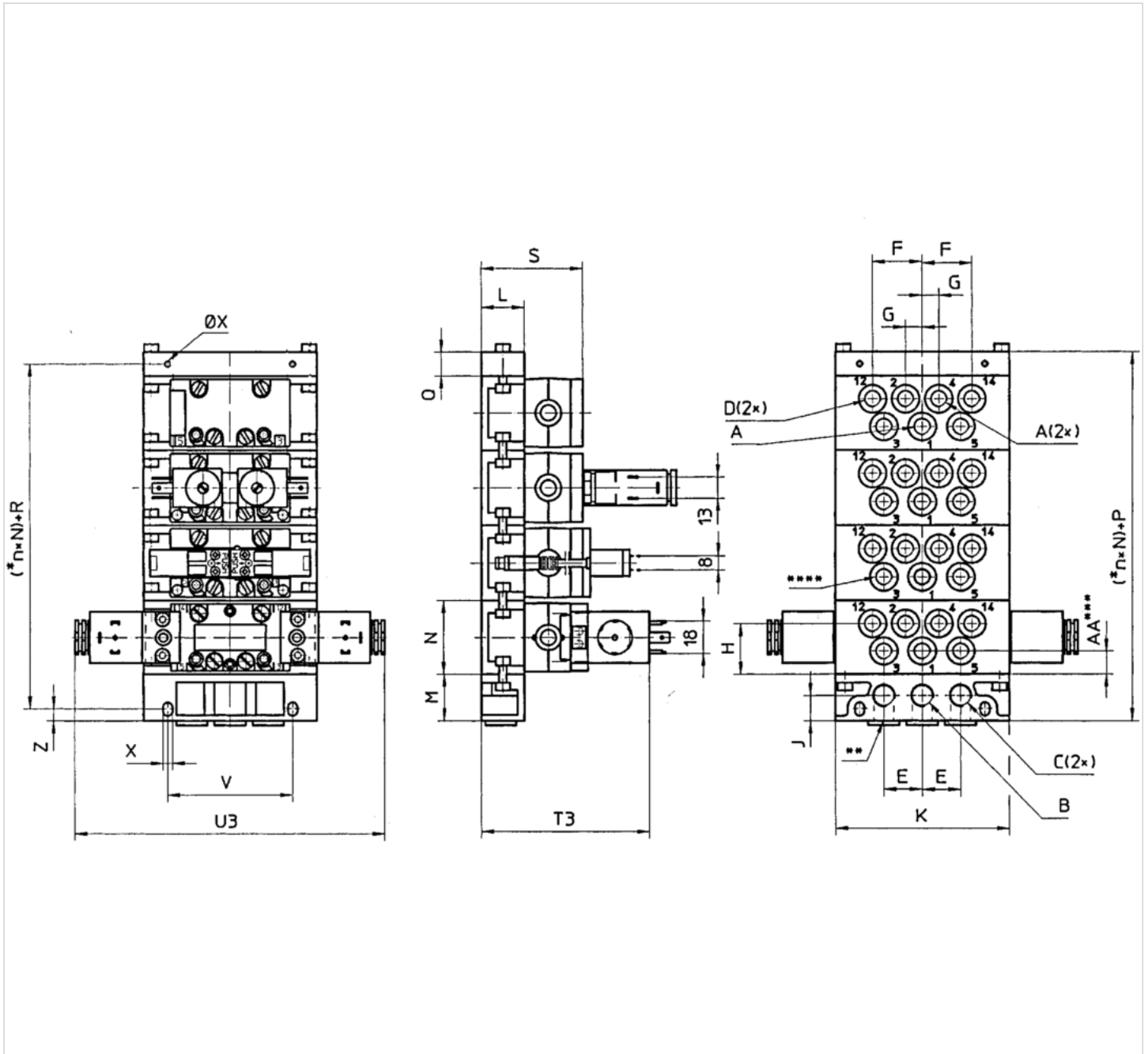
Dimensions

| | |
|---|-------|
| A | G 3/4 |
| B | G 1 |
| C | G 3/4 |
| D | G 1 |
| E | 54 |
| G | 26 |

| A | G 3/4 |
|----|-------|
| H1 | 50 |
| H2 | 33 |
| H3 | 48 |
| J | 30 |
| K | 215 |
| L | 58 |
| M | 30 |
| N | 82 |
| P | 142 |
| Q | 41 |
| R | 44 |
| S | 124 |
| V | 56 |
| X | 12 |
| Z | 15 |
| T2 | 174 |
| U2 | 144 |

Dimensions

30 mm CNOMO pilot valve width, all ports on bottom



Base plate ISO 5599-1

* n = number of subbases.

** Alternative port openings, closed with plugs.

*** Only on subbases with separate intake.

**** Subbase 5801680000 can also be connected to port 3 and 5.

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

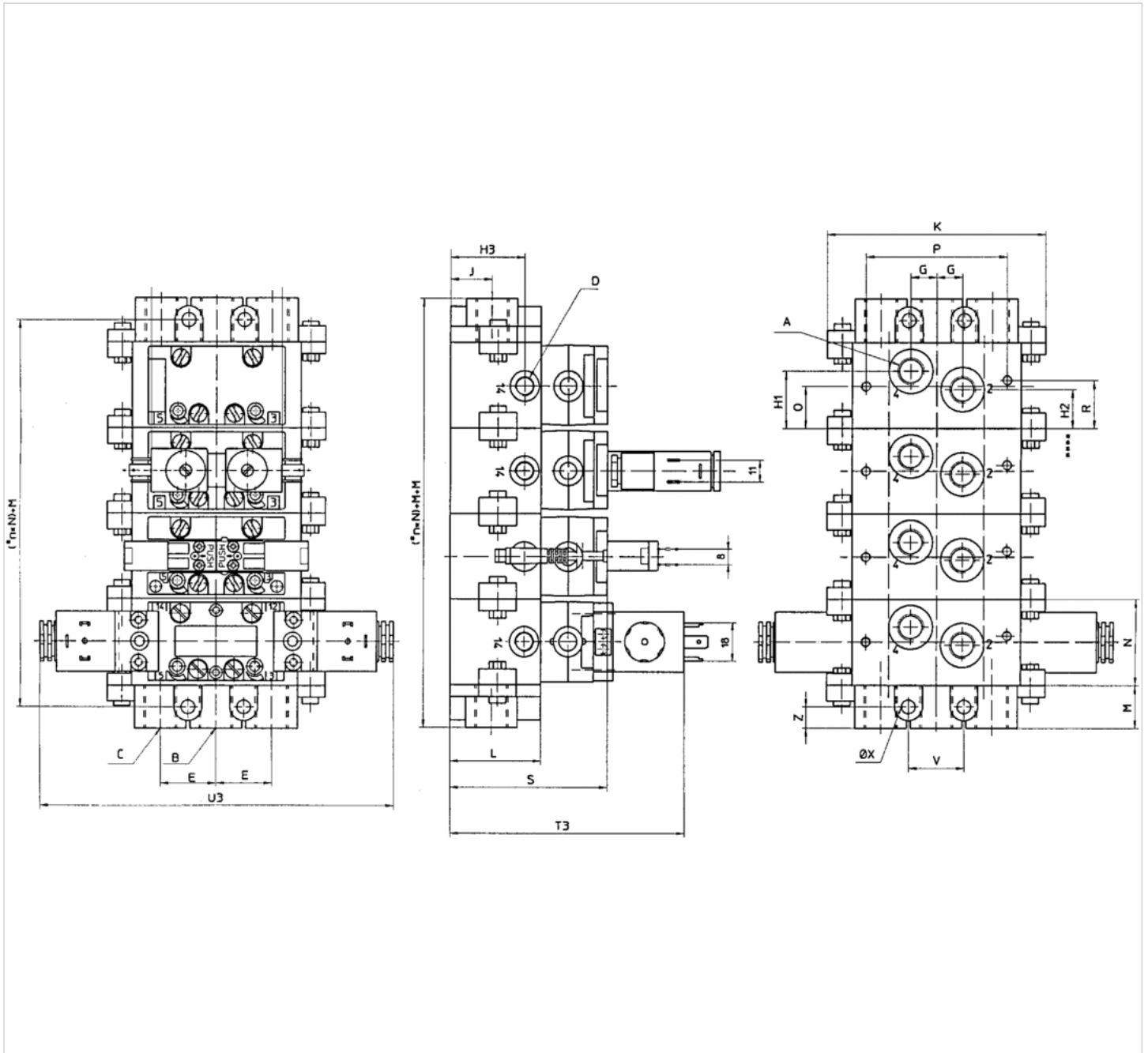
| | |
|---|-------|
| A | G 1/2 |
| B | G 3/4 |
| C | G 3/4 |

| | |
|--------------|-------|
| A | G 1/2 |
| D | G 1/8 |
| E | 44 |
| F | 60.5 |
| G | 22 |
| H | 53.5 |
| J | 24 |
| K | 190 |
| L | 43 |
| M | 44 |
| N | 82 |
| P (=M+Q) | 64 |
| Q | 20 |
| R (=Q/2+M-Z) | 45 |
| S | 105 |
| V | 146 |
| X | 8.4 |
| Z | 10 |
| T3 | 148 |
| U3 | 144 |

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

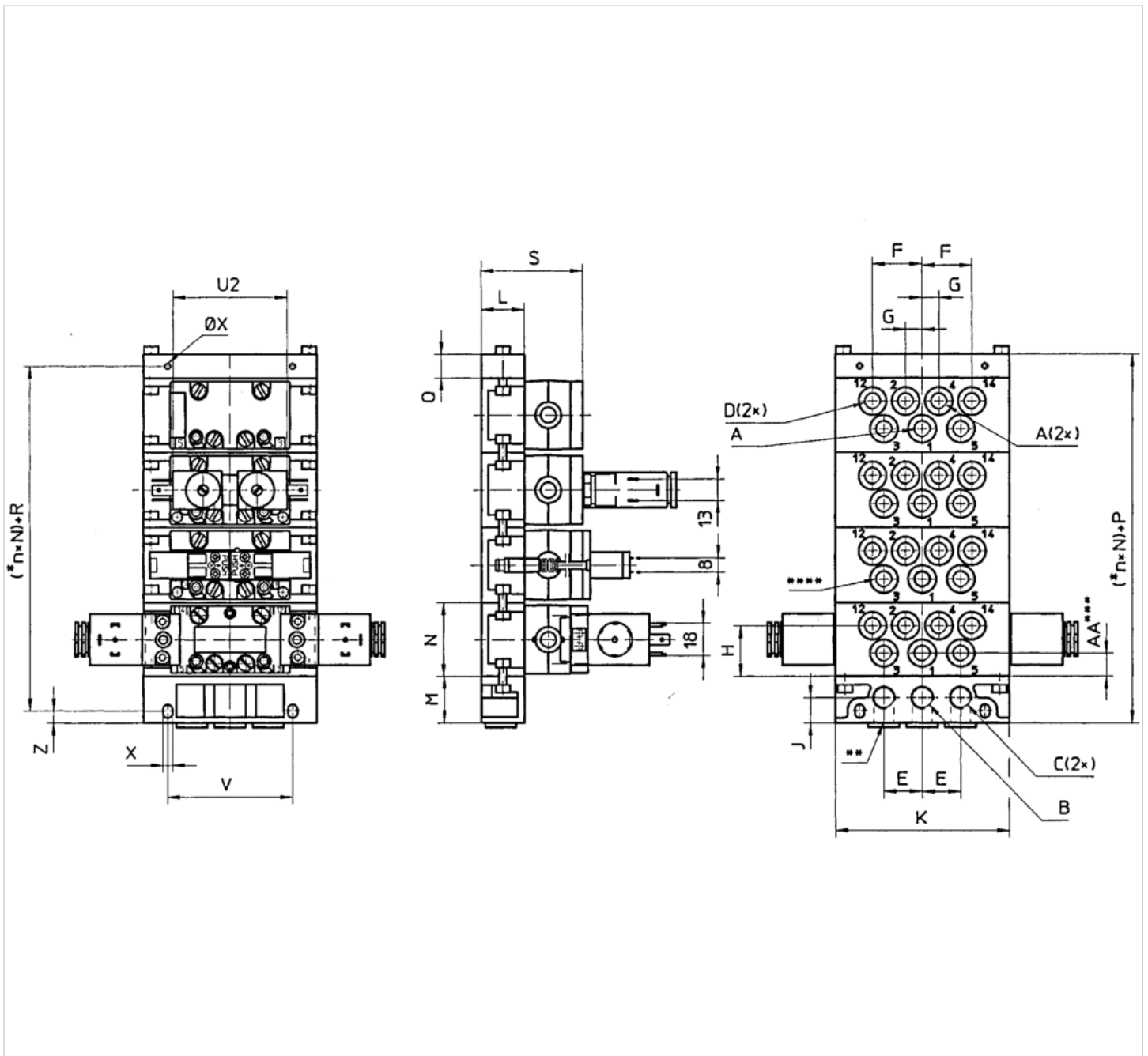
Dimensions

| | |
|---|-------|
| A | G 3/4 |
| B | G 1 |
| C | G 3/4 |
| D | G 1 |
| E | 54 |
| G | 26 |

| A | G 3/4 |
|----|-------|
| H1 | 50 |
| H2 | 33 |
| H3 | 48 |
| J | 30 |
| K | 215 |
| L | 58 |
| M | 30 |
| N | 82 |
| P | 142 |
| Q | 41 |
| R | 44 |
| S | 124 |
| V | 56 |
| X | 12 |
| Z | 15 |
| T3 | 163 |
| U3 | 144 |

Dimensions

Pneumatically operated, all ports on bottom



* n = number of subbases.

** Alternative port openings, closed with plugs.

*** Only on subbases with separate intake.

**** Subbase 5801680000 can also be connected to port 3 and 5.

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

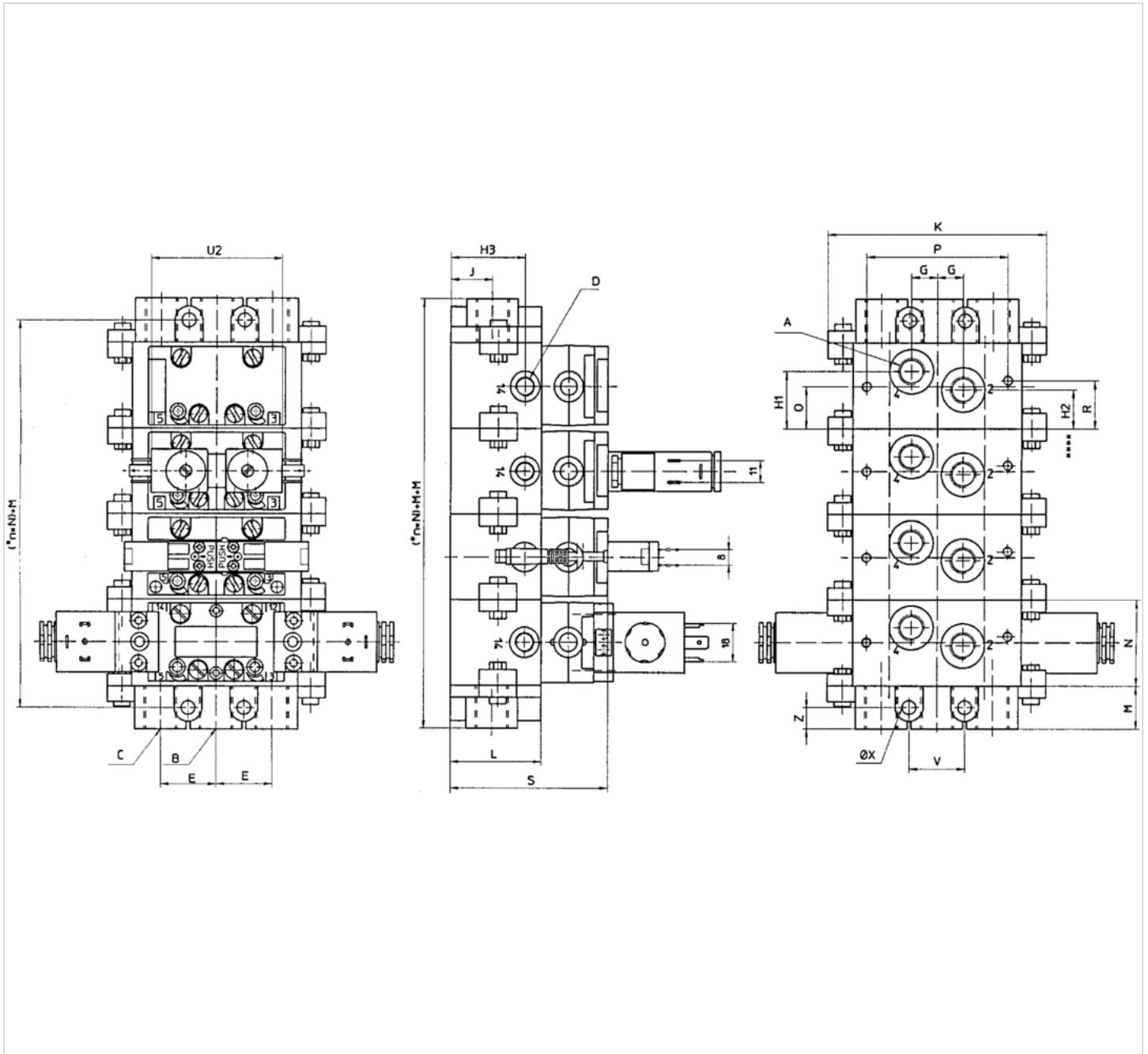
| | |
|---|-------|
| A | G 1/2 |
| B | G 3/4 |
| C | G 3/4 |
| D | G 1/8 |

| A | G 1/2 |
|--------------|-------|
| E | 44 |
| F | 60.5 |
| G | 22 |
| H | 53.5 |
| J | 24 |
| K | 190 |
| L | 43 |
| M | 44 |
| N | 82 |
| P (=M+Q) | 64 |
| Q | 20 |
| R (=Q/2+M-Z) | 45 |
| S | 105 |
| V | 146 |
| X | 8.4 |
| Z | 10 |
| U2 | 144 |

A = ports 2 and 4 in the intermediate plate ↔ B = port 1 in the supply plate ↔ C = ports 3 and 5 in the supply plate ↔ D = ports 12 and 14 in the intermediate plate

Dimensions

Dimensions, ports 2 and 4 on bottom, Ports 12 and 14 on side



* n = Number of subbases

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Dimensions

| | |
|---|-------|
| A | G 3/4 |
| B | G 1 |
| C | G 3/4 |
| D | G 1 |
| E | 54 |
| G | 26 |

| A | G 3/4 |
|----|-------|
| H1 | 50 |
| H2 | 33 |
| H3 | 48 |
| J | 30 |
| K | 215 |
| L | 58 |
| M | 30 |
| N | 82 |
| P | 142 |
| Q | 41 |
| R | 44 |
| S | 120 |
| V | 56 |
| X | 12 |
| Z | 15 |
| U2 | 144 |

























































5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 22 ms |
| Typ. switch-off time | 98 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,36 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5814110500 |  |  | 12 V | - |
| 5814110200 |  |  | - | 24 V |
| 5814110100 |  |  | 24 V | - |
| 5814110600 |  |  | 48 V | - |
| 5814110300 |  |  | - | - |
| 5814110400 |  |  | - | 230 V |
| 5814110000 |  |  | - | - |
| 5814111500 |  |  | 12 V | - |
| 5814111200 |  |  | - | 24 V |
| 5814111100 |  |  | 24 V | - |
| 5814111600 |  |  | 48 V | - |
| 5814111300 |  |  | - | - |
| 5814111400 |  |  | - | 230 V |
| 5814111000 |  |  | - | - |
| 5814112500 |  |  | 12 V | - |
| 5814112200 |  |  | - | 24 V |
| 5814112100 |  |  | 24 V | - |
| 5814112600 |  |  | 48 V | - |
| 5814112300 |  |  | - | - |
| 5814112400 |  |  | - | 230 V |
| 5814112000 |  |  | - | - |
| 5814113500 |  |  | 12 V | - |
| 5814113200 |  |  | - | 24 V |
| 5814113100 |  |  | 24 V | - |
| 5814113600 |  |  | 48 V | - |
| 5814113300 |  |  | - | - |
| 5814113400 |  |  | - | 230 V |
| 5814113000 |  |  | - | - |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|------------------------------|----------------------|----------------------------|----------------------------|
| 5814110500 | - | -10% / +10% | - | - |
| 5814110200 | - | - | -10% / +10% | - |
| 5814110100 | - | -10% / +10% | - | - |
| 5814110600 | - | -10% / +10% | - | - |
| 5814110300 | 110 V | - | - | -10% / +10% |
| 5814110400 | - | - | -10% / +10% | - |
| 5814110000 | - | - | - | - |
| 5814111500 | - | -10% / +10% | - | - |
| 5814111200 | - | - | -10% / +10% | - |
| 5814111100 | - | -10% / +10% | - | - |
| 5814111600 | - | -10% / +10% | - | - |
| 5814111300 | 110 V | - | - | -10% / +10% |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|
| 5814111400 | - | - | -10% / +10% | - |
| 5814111000 | - | - | - | - |
| 5814112500 | - | -10% / +10% | - | - |
| 5814112200 | - | - | -10% / +10% | - |
| 5814112100 | - | -10% / +10% | - | - |
| 5814112600 | - | -10% / +10% | - | - |
| 5814112300 | 110 V | - | - | -10% / +10% |
| 5814112400 | - | - | -10% / +10% | - |
| 5814112000 | - | - | - | - |
| 5814113500 | - | -10% / +10% | - | - |
| 5814113200 | - | - | -10% / +10% | - |
| 5814113100 | - | -10% / +10% | - | - |
| 5814113600 | - | -10% / +10% | - | - |
| 5814113300 | 110 V | - | - | -10% / +10% |
| 5814113400 | - | - | -10% / +10% | - |
| 5814113000 | - | - | - | - |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Holding power AC 60 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| 5814110500 | 5 W | - | - | - |
| 5814110200 | - | 8 VA | - | 10 VA |
| 5814110100 | 5 W | - | - | - |
| 5814110600 | 5 W | - | - | - |
| 5814110300 | - | - | 8 VA | - |
| 5814110400 | - | 8 VA | - | 10 VA |
| 5814110000 | - | - | - | - |
| 5814111500 | 5 W | - | - | - |
| 5814111200 | - | 8 VA | - | 10 VA |
| 5814111100 | 5 W | - | - | - |
| 5814111600 | 5 W | - | - | - |
| 5814111300 | - | - | 8 VA | - |
| 5814111400 | - | 8 VA | - | 10 VA |
| 5814111000 | - | - | - | - |
| 5814112500 | 5 W | - | - | - |
| 5814112200 | - | 8 VA | - | 10 VA |
| 5814112100 | 5 W | - | - | - |
| 5814112600 | 5 W | - | - | - |
| 5814112300 | - | - | 8 VA | - |
| 5814112400 | - | 8 VA | - | 10 VA |
| 5814112000 | - | - | - | - |
| 5814113500 | 5 W | - | - | - |
| 5814113200 | - | 8 VA | - | 10 VA |
| 5814113100 | 5 W | - | - | - |
| 5814113600 | 5 W | - | - | - |
| 5814113300 | - | - | 8 VA | - |
| 5814113400 | - | 8 VA | - | 10 VA |
| 5814113000 | - | - | - | - |

| Part No. | Switch-on power AC 60 Hz | Pilot | Working pressure min./max. | Electrical connection Pilot valve |
|------------|-----------------------------|----------|----------------------------|--------------------------------------|
| 5814110500 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814110200 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814110100 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814110600 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814110300 | 10 VA | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814110400 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814110000 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111500 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111200 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111100 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111600 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111300 | 10 VA | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111400 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814111000 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5814112500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814112200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814112100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814112600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814112300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814112400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814112000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814113000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814110500 | - | - |
| 5814110200 | - | - |
| 5814110100 | - | - |
| 5814110600 | - | - |
| 5814110300 | - | - |
| 5814110400 | - | - |
| 5814110000 | Basic valve without coil | - |
| 5814111500 | - | with throttle |
| 5814111200 | - | with throttle |
| 5814111100 | - | with throttle |
| 5814111600 | - | with throttle |
| 5814111300 | - | with throttle |
| 5814111400 | - | with throttle |
| 5814111000 | Basic valve without coil | with throttle |
| 5814112500 | - | - |
| 5814112200 | - | - |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814112100 | - | - |
| 5814112600 | - | - |
| 5814112300 | - | - |
| 5814112400 | - | - |
| 5814112000 | Basic valve without coil | - |
| 5814113500 | - | with throttle |
| 5814113200 | - | with throttle |
| 5814113100 | - | with throttle |
| 5814113600 | - | with throttle |
| 5814113300 | - | with throttle |
| 5814113400 | - | with throttle |
| 5814113000 | Basic valve without coil | with throttle |

Connection 12 must be connected with atmospheres, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

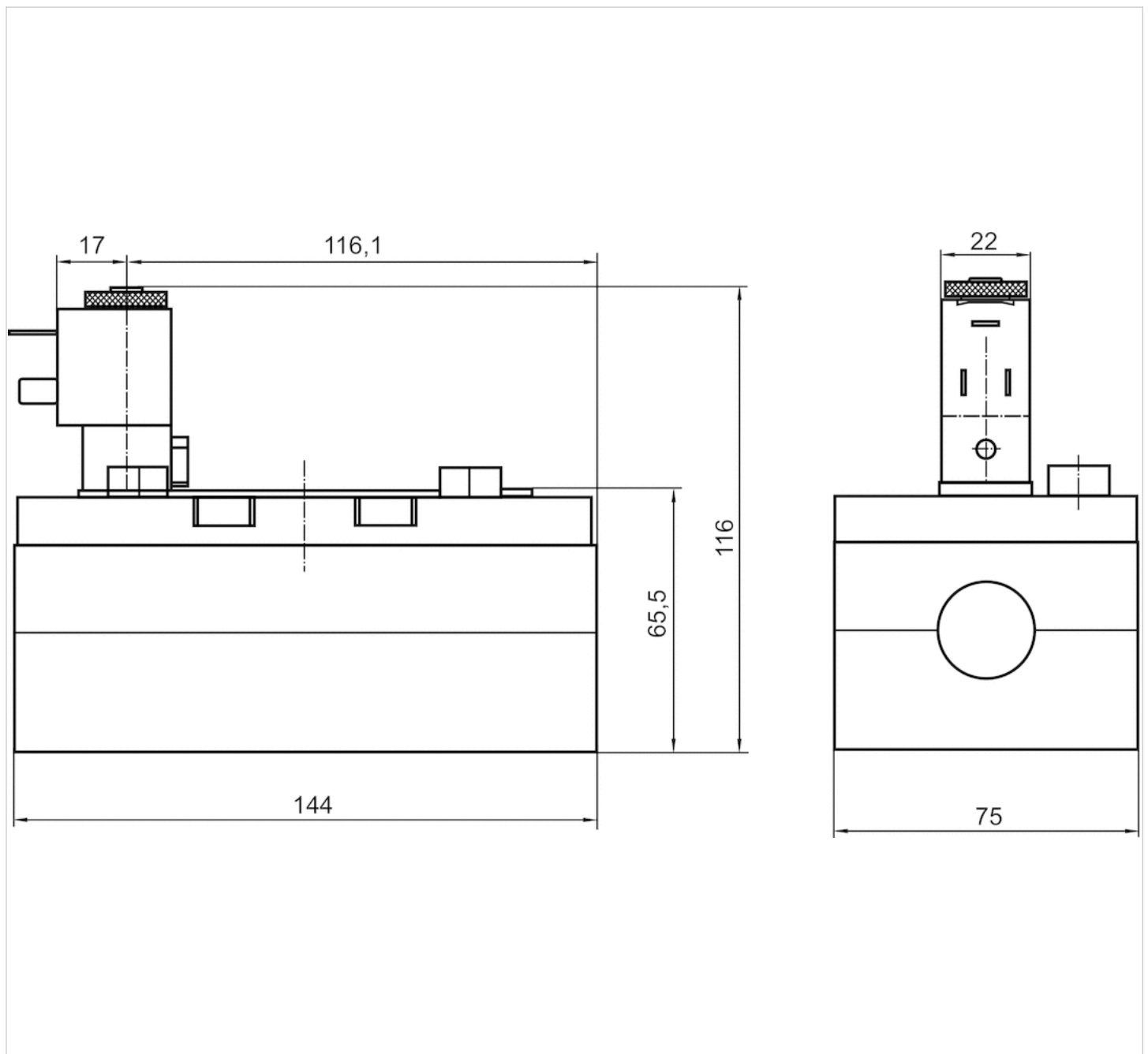
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



The pilot valves can be loosened and turned through 180°.

























































5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 23 ms |
| Typ. switch-off time | 64 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,36 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5814610500 |  |  | 12 V | - |
| 5814610200 |  |  | - | 24 V |
| 5814610100 |  |  | 24 V | - |
| 5814610600 |  |  | 48 V | - |
| 5814610300 |  |  | - | - |
| 5814610400 |  |  | - | 230 V |
| 5814610000 |  |  | - | - |
| 5814611500 |  |  | 12 V | - |
| 5814611200 |  |  | - | 24 V |
| 5814611100 |  |  | 24 V | - |
| 5814611600 |  |  | 48 V | - |
| 5814611300 |  |  | - | - |
| 5814611400 |  |  | - | 230 V |
| 5814611000 |  |  | - | - |
| 5814612500 |  |  | 12 V | - |
| 5814612200 |  |  | - | 24 V |
| 5814612100 |  |  | 24 V | - |
| 5814612600 |  |  | 48 V | - |
| 5814612300 |  |  | - | - |
| 5814612400 |  |  | - | 230 V |
| 5814612000 |  |  | - | - |
| 5814613500 |  |  | 12 V | - |
| 5814613200 |  |  | - | 24 V |
| 5814613100 |  |  | 24 V | - |
| 5814613600 |  |  | 48 V | - |
| 5814613300 |  |  | - | - |
| 5814613400 |  |  | - | 230 V |
| 5814613000 |  |  | - | - |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|------------------------------|----------------------|----------------------------|----------------------------|
| 5814610500 | - | -10% / +10% | - | - |
| 5814610200 | - | - | -10% / +10% | - |
| 5814610100 | - | -10% / +10% | - | - |
| 5814610600 | - | -10% / +10% | - | - |
| 5814610300 | 110 V | - | - | -10% / +10% |
| 5814610400 | - | - | -10% / +10% | - |
| 5814610000 | - | - | - | - |
| 5814611500 | - | -10% / +10% | - | - |
| 5814611200 | - | - | -10% / +10% | - |
| 5814611100 | - | -10% / +10% | - | - |
| 5814611600 | - | -10% / +10% | - | - |
| 5814611300 | 110 V | - | - | -10% / +10% |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|
| 5814611400 | - | - | -10% / +10% | - |
| 5814611000 | - | - | - | - |
| 5814612500 | - | -10% / +10% | - | - |
| 5814612200 | - | - | -10% / +10% | - |
| 5814612100 | - | -10% / +10% | - | - |
| 5814612600 | - | -10% / +10% | - | - |
| 5814612300 | 110 V | - | - | -10% / +10% |
| 5814612400 | - | - | -10% / +10% | - |
| 5814612000 | - | - | - | - |
| 5814613500 | - | -10% / +10% | - | - |
| 5814613200 | - | - | -10% / +10% | - |
| 5814613100 | - | -10% / +10% | - | - |
| 5814613600 | - | -10% / +10% | - | - |
| 5814613300 | 110 V | - | - | -10% / +10% |
| 5814613400 | - | - | -10% / +10% | - |
| 5814613000 | - | - | - | - |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Holding power AC 60 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| 5814610500 | 5 W | - | - | - |
| 5814610200 | - | 8 VA | - | 10 VA |
| 5814610100 | 5 W | - | - | - |
| 5814610600 | 5 W | - | - | - |
| 5814610300 | - | - | 8 VA | - |
| 5814610400 | - | 8 VA | - | 10 VA |
| 5814610000 | - | - | - | - |
| 5814611500 | 5 W | - | - | - |
| 5814611200 | - | 8 VA | - | 10 VA |
| 5814611100 | 5 W | - | - | - |
| 5814611600 | 5 W | - | - | - |
| 5814611300 | - | - | 8 VA | - |
| 5814611400 | - | 8 VA | - | 10 VA |
| 5814611000 | - | - | - | - |
| 5814612500 | 5 W | - | - | - |
| 5814612200 | - | 8 VA | - | 10 VA |
| 5814612100 | 5 W | - | - | - |
| 5814612600 | 5 W | - | - | - |
| 5814612300 | - | - | 8 VA | - |
| 5814612400 | - | 8 VA | - | 10 VA |
| 5814612000 | - | - | - | - |
| 5814613500 | 5 W | - | - | - |
| 5814613200 | - | 8 VA | - | 10 VA |
| 5814613100 | 5 W | - | - | - |
| 5814613600 | 5 W | - | - | - |
| 5814613300 | - | - | 8 VA | - |
| 5814613400 | - | 8 VA | - | 10 VA |
| 5814613000 | - | - | - | - |

| Part No. | Switch-on power AC 60 Hz | Pilot | Working pressure min./max. | Electrical connection Pilot valve |
|------------|-----------------------------|----------|----------------------------|--------------------------------------|
| 5814610500 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814610200 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814610100 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814610600 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814610300 | 10 VA | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814610400 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814610000 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611500 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611200 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611100 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611600 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611300 | 10 VA | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611400 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814611000 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814612500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814612200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814612100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814612600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814612300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814612400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814612000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814613000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814610500 | - | - |
| 5814610200 | - | - |
| 5814610100 | - | - |
| 5814610600 | - | - |
| 5814610300 | - | - |
| 5814610400 | - | - |
| 5814610000 | Basic valve without coil | - |
| 5814611500 | - | with throttle |
| 5814611200 | - | with throttle |
| 5814611100 | - | with throttle |
| 5814611600 | - | with throttle |
| 5814611300 | - | with throttle |
| 5814611400 | - | with throttle |
| 5814611000 | Basic valve without coil | with throttle |
| 5814612500 | - | - |
| 5814612200 | - | - |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814612100 | - | - |
| 5814612600 | - | - |
| 5814612300 | - | - |
| 5814612400 | - | - |
| 5814612000 | Basic valve without coil | - |
| 5814613500 | - | with throttle |
| 5814613200 | - | with throttle |
| 5814613100 | - | with throttle |
| 5814613600 | - | with throttle |
| 5814613300 | - | with throttle |
| 5814613400 | - | with throttle |
| 5814613000 | Basic valve without coil | with throttle |

Differential piston, signal 14 has priority, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

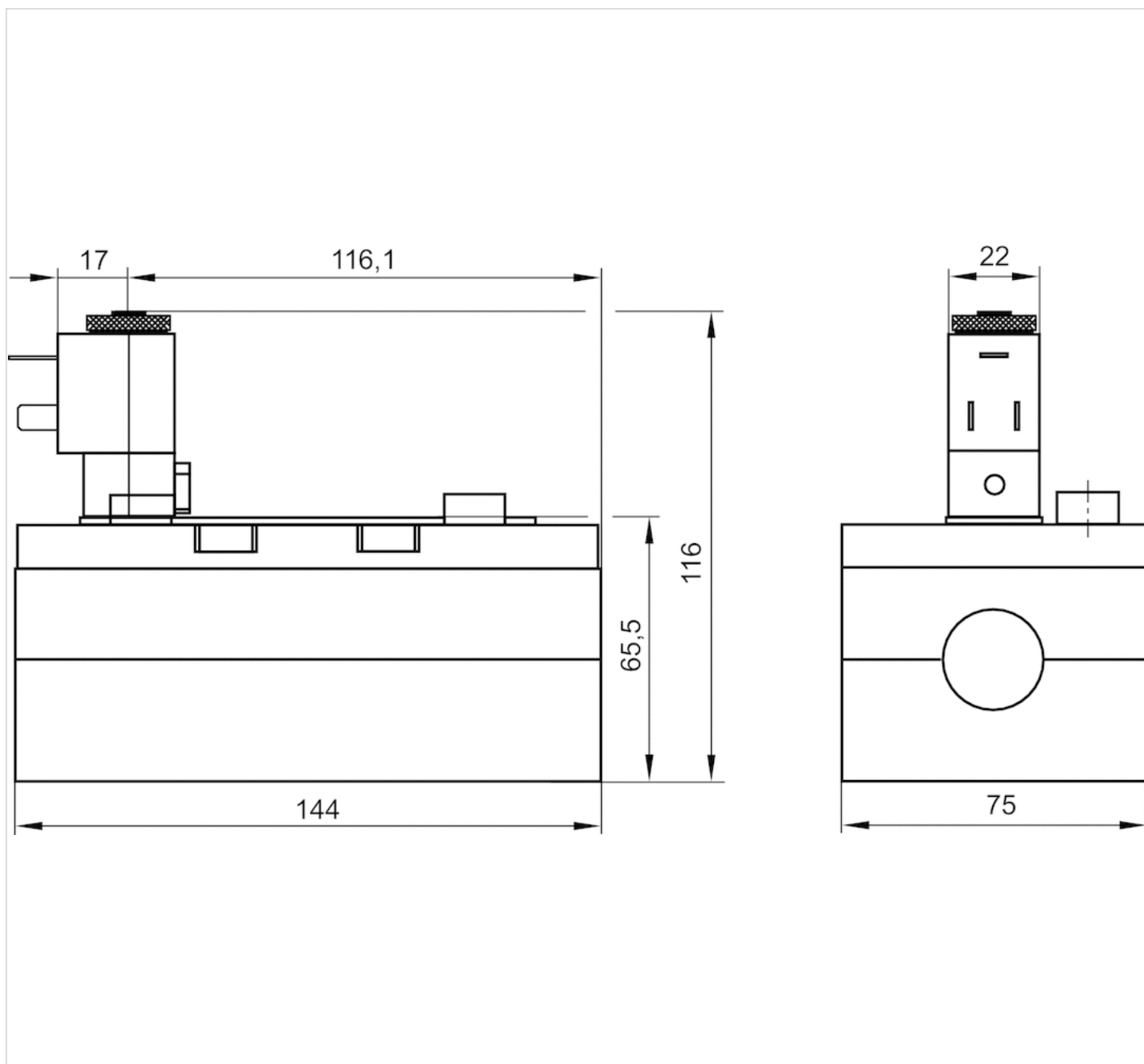
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



The pilot valves can be loosened and turned through 180°.

























































5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 16 ms |
| Typ. switch-off time | 16 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,44 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5814220500 |  |  | 12 V | - |
| 5814220200 |  |  | - | 24 V |
| 5814220100 |  |  | 24 V | - |
| 5814220600 |  |  | 48 V | - |
| 5814220300 |  |  | - | - |
| 5814220400 |  |  | - | 230 V |
| 5814220000 |  |  | - | - |
| 5814221500 |  |  | 12 V | - |
| 5814221200 |  |  | - | 24 V |
| 5814221100 |  |  | 24 V | - |
| 5814221600 |  |  | 48 V | - |
| 5814221300 |  |  | - | - |
| 5814221400 |  |  | - | 230 V |
| 5814221000 |  |  | - | - |
| 5814222500 |  |  | 12 V | - |
| 5814222200 |  |  | - | 24 V |
| 5814222100 |  |  | 24 V | - |
| 5814222600 |  |  | 48 V | - |
| 5814222300 |  |  | - | - |
| 5814222400 |  |  | - | 230 V |
| 5814222000 |  |  | - | - |
| 5814223500 |  |  | 12 V | - |
| 5814223200 |  |  | - | 24 V |
| 5814223100 |  |  | 24 V | - |
| 5814223600 |  |  | 48 V | - |
| 5814223300 |  |  | - | - |
| 5814223400 |  |  | - | 230 V |
| 5814223000 |  |  | - | - |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|------------------------------|----------------------|----------------------------|----------------------------|
| 5814220500 | - | -10% / +10% | - | - |
| 5814220200 | - | - | -10% / +10% | - |
| 5814220100 | - | -10% / +10% | - | - |
| 5814220600 | - | -10% / +10% | - | - |
| 5814220300 | 110 V | - | - | -10% / +10% |
| 5814220400 | - | - | -10% / +10% | - |
| 5814220000 | - | - | - | - |
| 5814221500 | - | -10% / +10% | - | - |
| 5814221200 | - | - | -10% / +10% | - |
| 5814221100 | - | -10% / +10% | - | - |
| 5814221600 | - | -10% / +10% | - | - |
| 5814221300 | 110 V | - | - | -10% / +10% |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|
| 5814221400 | - | - | -10% / +10% | - |
| 5814221000 | - | - | - | - |
| 5814222500 | - | -10% / +10% | - | - |
| 5814222200 | - | - | -10% / +10% | - |
| 5814222100 | - | -10% / +10% | - | - |
| 5814222600 | - | -10% / +10% | - | - |
| 5814222300 | 110 V | - | - | -10% / +10% |
| 5814222400 | - | - | -10% / +10% | - |
| 5814222000 | - | - | - | - |
| 5814223500 | - | -10% / +10% | - | - |
| 5814223200 | - | - | -10% / +10% | - |
| 5814223100 | - | -10% / +10% | - | - |
| 5814223600 | - | -10% / +10% | - | - |
| 5814223300 | 110 V | - | - | -10% / +10% |
| 5814223400 | - | - | -10% / +10% | - |
| 5814223000 | - | - | - | - |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Holding power AC 60 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| 5814220500 | 5 W | - | - | - |
| 5814220200 | - | 8 VA | - | 10 VA |
| 5814220100 | 5 W | - | - | - |
| 5814220600 | 5 W | - | - | - |
| 5814220300 | - | - | 8 VA | - |
| 5814220400 | - | 8 VA | - | 10 VA |
| 5814220000 | - | - | - | - |
| 5814221500 | 5 W | - | - | - |
| 5814221200 | - | 8 VA | - | 10 VA |
| 5814221100 | 5 W | - | - | - |
| 5814221600 | 5 W | - | - | - |
| 5814221300 | - | - | 8 VA | - |
| 5814221400 | - | 8 VA | - | 10 VA |
| 5814221000 | - | - | - | - |
| 5814222500 | 5 W | - | - | - |
| 5814222200 | - | 8 VA | - | 10 VA |
| 5814222100 | 5 W | - | - | - |
| 5814222600 | 5 W | - | - | - |
| 5814222300 | - | - | 8 VA | - |
| 5814222400 | - | 8 VA | - | 10 VA |
| 5814222000 | - | - | - | - |
| 5814223500 | 5 W | - | - | - |
| 5814223200 | - | 8 VA | - | 10 VA |
| 5814223100 | 5 W | - | - | - |
| 5814223600 | 5 W | - | - | - |
| 5814223300 | - | - | 8 VA | - |
| 5814223400 | - | 8 VA | - | 10 VA |
| 5814223000 | - | - | - | - |

| Part No. | Switch-on power AC 60 Hz | Pilot | Working pressure min./max. | Electrical connection Pilot valve |
|------------|-----------------------------|----------|----------------------------|--------------------------------------|
| 5814220500 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814220200 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814220100 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814220600 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814220300 | 10 VA | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814220400 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814220000 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221500 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221200 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221100 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221600 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221300 | 10 VA | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221400 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814221000 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5814222500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814222200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814222100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814222600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814222300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814222400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814222000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5814223000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814220500 | - | - |
| 5814220200 | - | - |
| 5814220100 | - | - |
| 5814220600 | - | - |
| 5814220300 | - | - |
| 5814220400 | - | - |
| 5814220000 | Basic valve without coil | - |
| 5814221500 | - | with throttle |
| 5814221200 | - | with throttle |
| 5814221100 | - | with throttle |
| 5814221600 | - | with throttle |
| 5814221300 | - | with throttle |
| 5814221400 | - | with throttle |
| 5814221000 | Basic valve without coil | with throttle |
| 5814222500 | - | - |
| 5814222200 | - | - |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814222100 | - | - |
| 5814222600 | - | - |
| 5814222300 | - | - |
| 5814222400 | - | - |
| 5814222000 | Basic valve without coil | - |
| 5814223500 | - | with throttle |
| 5814223200 | - | with throttle |
| 5814223100 | - | with throttle |
| 5814223600 | - | with throttle |
| 5814223300 | - | with throttle |
| 5814223400 | - | with throttle |
| 5814223000 | Basic valve without coil | with throttle |

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

Technical information

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

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

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

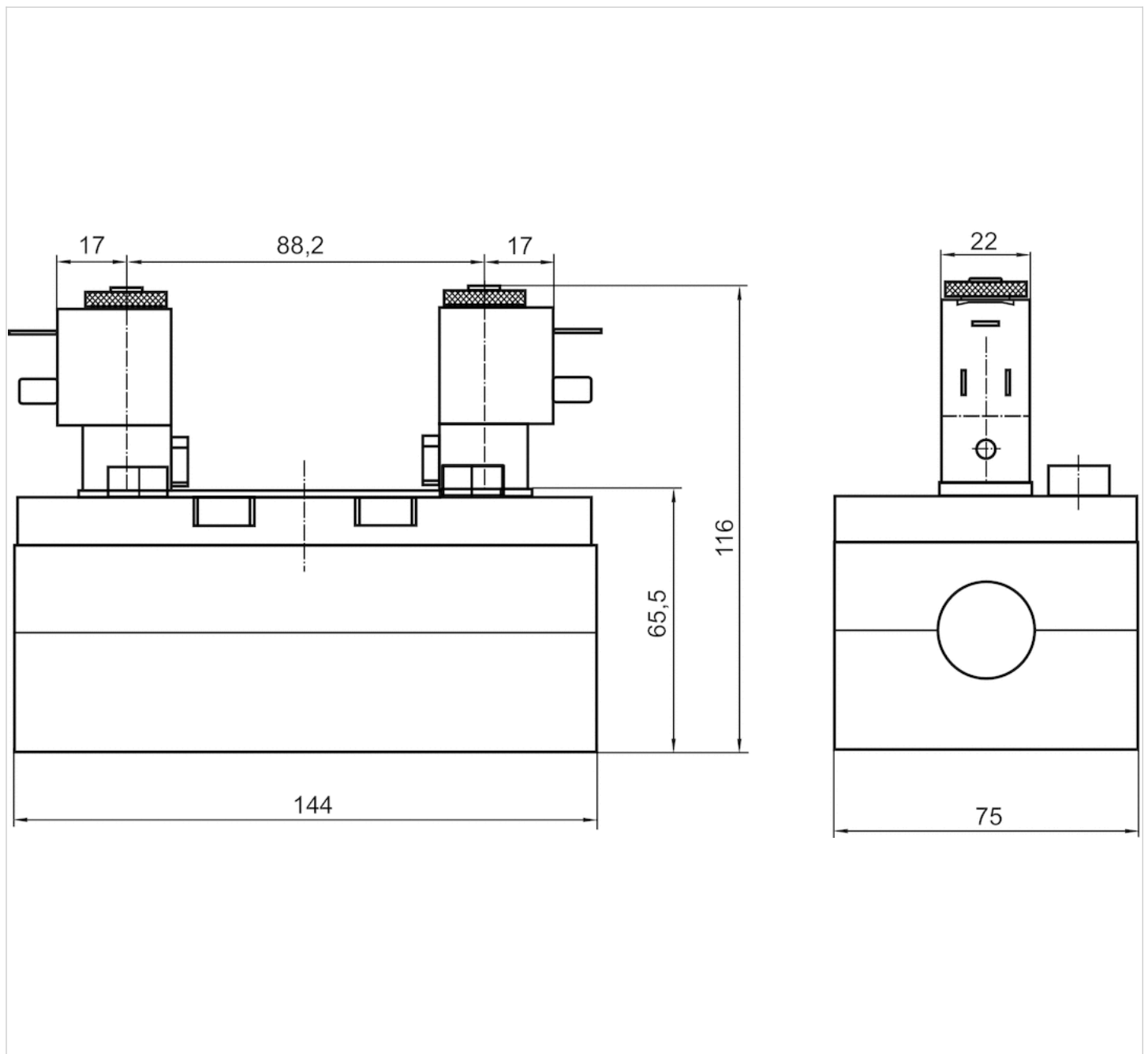
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



The pilot valves can be loosened and turned through 180°.





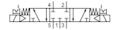

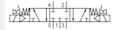







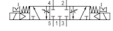

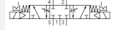

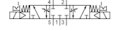

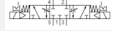

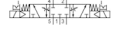

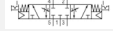

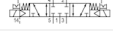

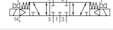

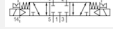
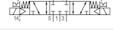

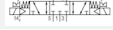

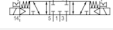

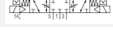

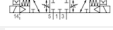

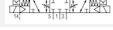

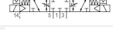
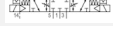

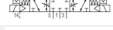



5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center
- closed center
- $Q_n = 5000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 30 ms |
| Typ. switch-off time | 74 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,44 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|---------------|------------------------|
| 5814420500 |  |  | closed center | 12 V |
| 5814420200 |  |  | closed center | - |
| 5814420100 |  |  | closed center | 24 V |
| 5814420600 |  |  | closed center | 48 V |
| 5814420300 |  |  | closed center | - |
| 5814420400 |  |  | closed center | - |
| 5814420000 |  |  | closed center | - |
| 5814421500 |  |  | closed center | 12 V |
| 5814421200 |  |  | closed center | - |
| 5814421100 |  |  | closed center | 24 V |
| 5814421600 |  |  | closed center | 48 V |
| 5814421300 |  |  | closed center | - |
| 5814421400 |  |  | closed center | - |
| 5814421000 |  |  | closed center | - |
| 5814422500 |  |  | closed center | 12 V |
| 5814422200 |  |  | closed center | - |
| 5814422100 |  |  | closed center | 24 V |
| 5814422600 |  |  | closed center | 48 V |
| 5814422300 |  |  | closed center | - |
| 5814422400 |  |  | closed center | - |
| 5814422000 |  |  | closed center | - |
| 5814423500 |  |  | closed center | 12 V |
| 5814423200 |  |  | closed center | - |
| 5814423100 |  |  | closed center | 24 V |
| 5814423600 |  |  | closed center | 48 V |
| 5814423300 |  |  | closed center | - |
| 5814423400 |  |  | closed center | - |
| 5814423000 |  |  | closed center | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|------------------------------|------------------------------|----------------------|
| 5814420500 | - | - | -10% / +10% |
| 5814420200 | 24 V | - | - |
| 5814420100 | - | - | -10% / +10% |
| 5814420600 | - | - | -10% / +10% |
| 5814420300 | - | 110 V | - |
| 5814420400 | 230 V | - | - |
| 5814420000 | - | - | - |
| 5814421500 | - | - | -10% / +10% |
| 5814421200 | 24 V | - | - |
| 5814421100 | - | - | -10% / +10% |
| 5814421600 | - | - | -10% / +10% |
| 5814421300 | - | 110 V | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|---------------------------------|---------------------------------|-------------------------|
| 5814421400 | 230 V | - | - |
| 5814421000 | - | - | - |
| 5814422500 | - | - | -10% / +10% |
| 5814422200 | 24 V | - | - |
| 5814422100 | - | - | -10% / +10% |
| 5814422600 | - | - | -10% / +10% |
| 5814422300 | - | 110 V | - |
| 5814422400 | 230 V | - | - |
| 5814422000 | - | - | - |
| 5814423500 | - | - | -10% / +10% |
| 5814423200 | 24 V | - | - |
| 5814423100 | - | - | -10% / +10% |
| 5814423600 | - | - | -10% / +10% |
| 5814423300 | - | 110 V | - |
| 5814423400 | 230 V | - | - |
| 5814423000 | - | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|-------------------------------|-------------------------------|-------------------------|---------------------------|
| 5814420500 | - | - | 5 W | - |
| 5814420200 | -10% / +10% | - | - | 8 VA |
| 5814420100 | - | - | 5 W | - |
| 5814420600 | - | - | 5 W | - |
| 5814420300 | - | -10% / +10% | - | - |
| 5814420400 | -10% / +10% | - | - | 8 VA |
| 5814420000 | - | - | - | - |
| 5814421500 | - | - | 5 W | - |
| 5814421200 | -10% / +10% | - | - | 8 VA |
| 5814421100 | - | - | 5 W | - |
| 5814421600 | - | - | 5 W | - |
| 5814421300 | - | -10% / +10% | - | - |
| 5814421400 | -10% / +10% | - | - | 8 VA |
| 5814421000 | - | - | - | - |
| 5814422500 | - | - | 5 W | - |
| 5814422200 | -10% / +10% | - | - | 8 VA |
| 5814422100 | - | - | 5 W | - |
| 5814422600 | - | - | 5 W | - |
| 5814422300 | - | -10% / +10% | - | - |
| 5814422400 | -10% / +10% | - | - | 8 VA |
| 5814422000 | - | - | - | - |
| 5814423500 | - | - | 5 W | - |
| 5814423200 | -10% / +10% | - | - | 8 VA |
| 5814423100 | - | - | 5 W | - |
| 5814423600 | - | - | 5 W | - |
| 5814423300 | - | -10% / +10% | - | - |
| 5814423400 | -10% / +10% | - | - | 8 VA |
| 5814423000 | - | - | - | - |

| Part No. | Holding power AC 60 Hz | Switch-on power AC 50 Hz | Switch-on power AC 60 Hz | Pilot |
|------------|---------------------------|-----------------------------|-----------------------------|----------|
| 5814420500 | - | - | - | Internal |
| 5814420200 | - | 10 VA | - | Internal |
| 5814420100 | - | - | - | Internal |
| 5814420600 | - | - | - | Internal |
| 5814420300 | 8 VA | - | 10 VA | Internal |
| 5814420400 | - | 10 VA | - | Internal |
| 5814420000 | - | - | - | Internal |
| 5814421500 | - | - | - | Internal |
| 5814421200 | - | 10 VA | - | Internal |
| 5814421100 | - | - | - | Internal |
| 5814421600 | - | - | - | Internal |
| 5814421300 | 8 VA | - | 10 VA | Internal |
| 5814421400 | - | 10 VA | - | Internal |
| 5814421000 | - | - | - | Internal |
| 5814422500 | - | - | - | External |
| 5814422200 | - | 10 VA | - | External |
| 5814422100 | - | - | - | External |
| 5814422600 | - | - | - | External |
| 5814422300 | 8 VA | - | 10 VA | External |
| 5814422400 | - | 10 VA | - | External |
| 5814422000 | - | - | - | External |
| 5814423500 | - | - | - | External |
| 5814423200 | - | 10 VA | - | External |
| 5814423100 | - | - | - | External |
| 5814423600 | - | - | - | External |
| 5814423300 | 8 VA | - | 10 VA | External |
| 5814423400 | - | 10 VA | - | External |
| 5814423000 | - | - | - | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5814420500 | 3 ... 10 bar | Plug Form B, industry |
| 5814420200 | 3 ... 10 bar | Plug Form B, industry |
| 5814420100 | 3 ... 10 bar | Plug Form B, industry |
| 5814420600 | 3 ... 10 bar | Plug Form B, industry |
| 5814420300 | 3 ... 10 bar | Plug Form B, industry |
| 5814420400 | 3 ... 10 bar | Plug Form B, industry |
| 5814420000 | 3 ... 10 bar | Plug Form B, industry |
| 5814421500 | 3 ... 10 bar | Plug Form B, industry |
| 5814421200 | 3 ... 10 bar | Plug Form B, industry |
| 5814421100 | 3 ... 10 bar | Plug Form B, industry |
| 5814421600 | 3 ... 10 bar | Plug Form B, industry |
| 5814421300 | 3 ... 10 bar | Plug Form B, industry |
| 5814421400 | 3 ... 10 bar | Plug Form B, industry |
| 5814421000 | 3 ... 10 bar | Plug Form B, industry |
| 5814422500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814422200 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5814422100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814422600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814422300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814422400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814422000 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423200 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814423000 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814420500 | - | - |
| 5814420200 | - | - |
| 5814420100 | - | - |
| 5814420600 | - | - |
| 5814420300 | - | - |
| 5814420400 | - | - |
| 5814420000 | Basic valve without coil | - |
| 5814421500 | - | with throttle |
| 5814421200 | - | with throttle |
| 5814421100 | - | with throttle |
| 5814421600 | - | with throttle |
| 5814421300 | - | with throttle |
| 5814421400 | - | with throttle |
| 5814421000 | Basic valve without coil | with throttle |
| 5814422500 | - | - |
| 5814422200 | - | - |
| 5814422100 | - | - |
| 5814422600 | - | - |
| 5814422300 | - | - |
| 5814422400 | - | - |
| 5814422000 | Basic valve without coil | - |
| 5814423500 | - | with throttle |
| 5814423200 | - | with throttle |
| 5814423100 | - | with throttle |
| 5814423600 | - | with throttle |
| 5814423300 | - | with throttle |
| 5814423400 | - | with throttle |
| 5814423000 | Basic valve without coil | with throttle |

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

Technical information

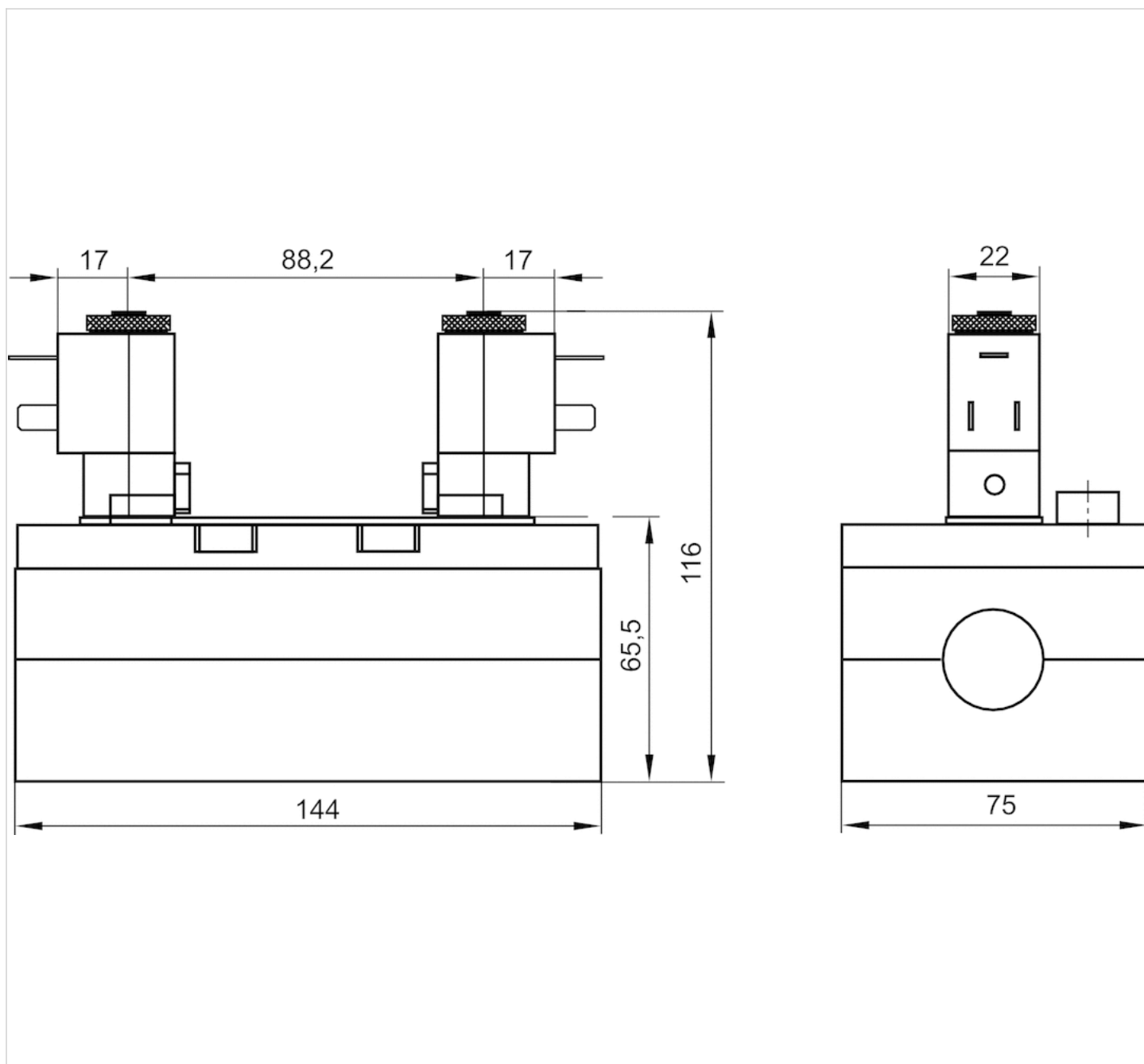
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



The pilot valves can be loosened and turned through 180°.

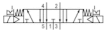
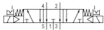

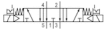

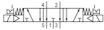

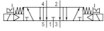











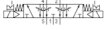

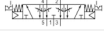
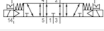

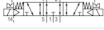

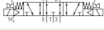


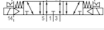

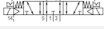

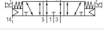














5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- exhausted center
- exhausted center
- $Q_n = 5000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 30 ms |
| Typ. switch-off time | 74 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,44 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|------------------|------------------------|
| 5814520500 |  |  | exhausted center | 12 V |
| 5814520200 |  |  | exhausted center | - |
| 5814520100 |  |  | exhausted center | 24 V |
| 5814520600 |  |  | exhausted center | 48 V |
| 5814520300 |  |  | exhausted center | - |
| 5814520400 |  |  | exhausted center | - |
| 5814520000 |  |  | exhausted center | - |
| 5814521500 |  |  | exhausted center | 12 V |
| 5814521200 |  |  | exhausted center | - |
| 5814521100 |  |  | exhausted center | 24 V |
| 5814521600 |  |  | exhausted center | 48 V |
| 5814521300 |  |  | exhausted center | - |
| 5814521400 |  |  | exhausted center | - |
| 5814521000 |  |  | exhausted center | - |
| 5814522500 |  |  | exhausted center | 12 V |
| 5814522200 |  |  | exhausted center | - |
| 5814522100 |  |  | exhausted center | 24 V |
| 5814522600 |  |  | exhausted center | 48 V |
| 5814522300 |  |  | exhausted center | - |
| 5814522400 |  |  | exhausted center | - |
| 5814522000 |  |  | exhausted center | - |
| 5814523500 |  |  | exhausted center | 12 V |
| 5814523200 |  |  | exhausted center | - |
| 5814523100 |  |  | exhausted center | 24 V |
| 5814523600 |  |  | exhausted center | 48 V |
| 5814523300 |  |  | exhausted center | - |
| 5814523400 |  |  | exhausted center | - |
| 5814523000 |  |  | exhausted center | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|------------------------------|------------------------------|----------------------|
| 5814520500 | - | - | -10% / +10% |
| 5814520200 | 24 V | - | - |
| 5814520100 | - | - | -10% / +10% |
| 5814520600 | - | - | -10% / +10% |
| 5814520300 | - | 110 V | - |
| 5814520400 | 230 V | - | - |
| 5814520000 | - | - | - |
| 5814521500 | - | - | -10% / +10% |
| 5814521200 | 24 V | - | - |
| 5814521100 | - | - | -10% / +10% |
| 5814521600 | - | - | -10% / +10% |
| 5814521300 | - | 110 V | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|---------------------------------|---------------------------------|-------------------------|
| 5814521400 | 230 V | - | - |
| 5814521000 | - | - | - |
| 5814522500 | - | - | -10% / +10% |
| 5814522200 | 24 V | - | - |
| 5814522100 | - | - | -10% / +10% |
| 5814522600 | - | - | -10% / +10% |
| 5814522300 | - | 110 V | - |
| 5814522400 | 230 V | - | - |
| 5814522000 | - | - | - |
| 5814523500 | - | - | -10% / +10% |
| 5814523200 | 24 V | - | - |
| 5814523100 | - | - | -10% / +10% |
| 5814523600 | - | - | -10% / +10% |
| 5814523300 | - | 110 V | - |
| 5814523400 | 230 V | - | - |
| 5814523000 | - | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|-------------------------------|-------------------------------|-------------------------|---------------------------|
| 5814520500 | - | - | 5 W | - |
| 5814520200 | -10% / +10% | - | - | 8 VA |
| 5814520100 | - | - | 5 W | - |
| 5814520600 | - | - | 5 W | - |
| 5814520300 | - | -10% / +10% | - | - |
| 5814520400 | -10% / +10% | - | - | 8 VA |
| 5814520000 | - | - | - | - |
| 5814521500 | - | - | 5 W | - |
| 5814521200 | -10% / +10% | - | - | 8 VA |
| 5814521100 | - | - | 5 W | - |
| 5814521600 | - | - | 5 W | - |
| 5814521300 | - | -10% / +10% | - | - |
| 5814521400 | -10% / +10% | - | - | 8 VA |
| 5814521000 | - | - | - | - |
| 5814522500 | - | - | 5 W | - |
| 5814522200 | -10% / +10% | - | - | 8 VA |
| 5814522100 | - | - | 5 W | - |
| 5814522600 | - | - | 5 W | - |
| 5814522300 | - | -10% / +10% | - | - |
| 5814522400 | -10% / +10% | - | - | 8 VA |
| 5814522000 | - | - | - | - |
| 5814523500 | - | - | 5 W | - |
| 5814523200 | -10% / +10% | - | - | 8 VA |
| 5814523100 | - | - | 5 W | - |
| 5814523600 | - | - | 5 W | - |
| 5814523300 | - | -10% / +10% | - | - |
| 5814523400 | -10% / +10% | - | - | 8 VA |
| 5814523000 | - | - | - | - |

| Part No. | Holding power AC 60 Hz | Switch-on power AC 50 Hz | Switch-on power AC 60 Hz | Pilot |
|------------|---------------------------|-----------------------------|-----------------------------|----------|
| 5814520500 | - | - | - | Internal |
| 5814520200 | - | 10 VA | - | Internal |
| 5814520100 | - | - | - | Internal |
| 5814520600 | - | - | - | Internal |
| 5814520300 | 8 VA | - | 10 VA | Internal |
| 5814520400 | - | 10 VA | - | Internal |
| 5814520000 | - | - | - | Internal |
| 5814521500 | - | - | - | Internal |
| 5814521200 | - | 10 VA | - | Internal |
| 5814521100 | - | - | - | Internal |
| 5814521600 | - | - | - | Internal |
| 5814521300 | 8 VA | - | 10 VA | Internal |
| 5814521400 | - | 10 VA | - | Internal |
| 5814521000 | - | - | - | Internal |
| 5814522500 | - | - | - | External |
| 5814522200 | - | 10 VA | - | External |
| 5814522100 | - | - | - | External |
| 5814522600 | - | - | - | External |
| 5814522300 | 8 VA | - | 10 VA | External |
| 5814522400 | - | 10 VA | - | External |
| 5814522000 | - | - | - | External |
| 5814523500 | - | - | - | External |
| 5814523200 | - | 10 VA | - | External |
| 5814523100 | - | - | - | External |
| 5814523600 | - | - | - | External |
| 5814523300 | 8 VA | - | 10 VA | External |
| 5814523400 | - | 10 VA | - | External |
| 5814523000 | - | - | - | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5814520500 | 3 ... 10 bar | Plug Form B, industry |
| 5814520200 | 3 ... 10 bar | Plug Form B, industry |
| 5814520100 | 3 ... 10 bar | Plug Form B, industry |
| 5814520600 | 3 ... 10 bar | Plug Form B, industry |
| 5814520300 | 3 ... 10 bar | Plug Form B, industry |
| 5814520400 | 3 ... 10 bar | Plug Form B, industry |
| 5814520000 | 3 ... 10 bar | Plug Form B, industry |
| 5814521500 | 3 ... 10 bar | Plug Form B, industry |
| 5814521200 | 3 ... 10 bar | Plug Form B, industry |
| 5814521100 | 3 ... 10 bar | Plug Form B, industry |
| 5814521600 | 3 ... 10 bar | Plug Form B, industry |
| 5814521300 | 3 ... 10 bar | Plug Form B, industry |
| 5814521400 | 3 ... 10 bar | Plug Form B, industry |
| 5814521000 | 3 ... 10 bar | Plug Form B, industry |
| 5814522500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814522200 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5814522100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814522600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814522300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814522400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814522000 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523200 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814523000 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814520500 | - | - |
| 5814520200 | - | - |
| 5814520100 | - | - |
| 5814520600 | - | - |
| 5814520300 | - | - |
| 5814520400 | - | - |
| 5814520000 | Basic valve without coil | - |
| 5814521500 | - | with throttle |
| 5814521200 | - | with throttle |
| 5814521100 | - | with throttle |
| 5814521600 | - | with throttle |
| 5814521300 | - | with throttle |
| 5814521400 | - | with throttle |
| 5814521000 | Basic valve without coil | with throttle |
| 5814522500 | - | - |
| 5814522200 | - | - |
| 5814522100 | - | - |
| 5814522600 | - | - |
| 5814522300 | - | - |
| 5814522400 | - | - |
| 5814522000 | Basic valve without coil | - |
| 5814523500 | - | with throttle |
| 5814523200 | - | with throttle |
| 5814523100 | - | with throttle |
| 5814523600 | - | with throttle |
| 5814523300 | - | with throttle |
| 5814523400 | - | with throttle |
| 5814523000 | Basic valve without coil | with throttle |

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

Technical information

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

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

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

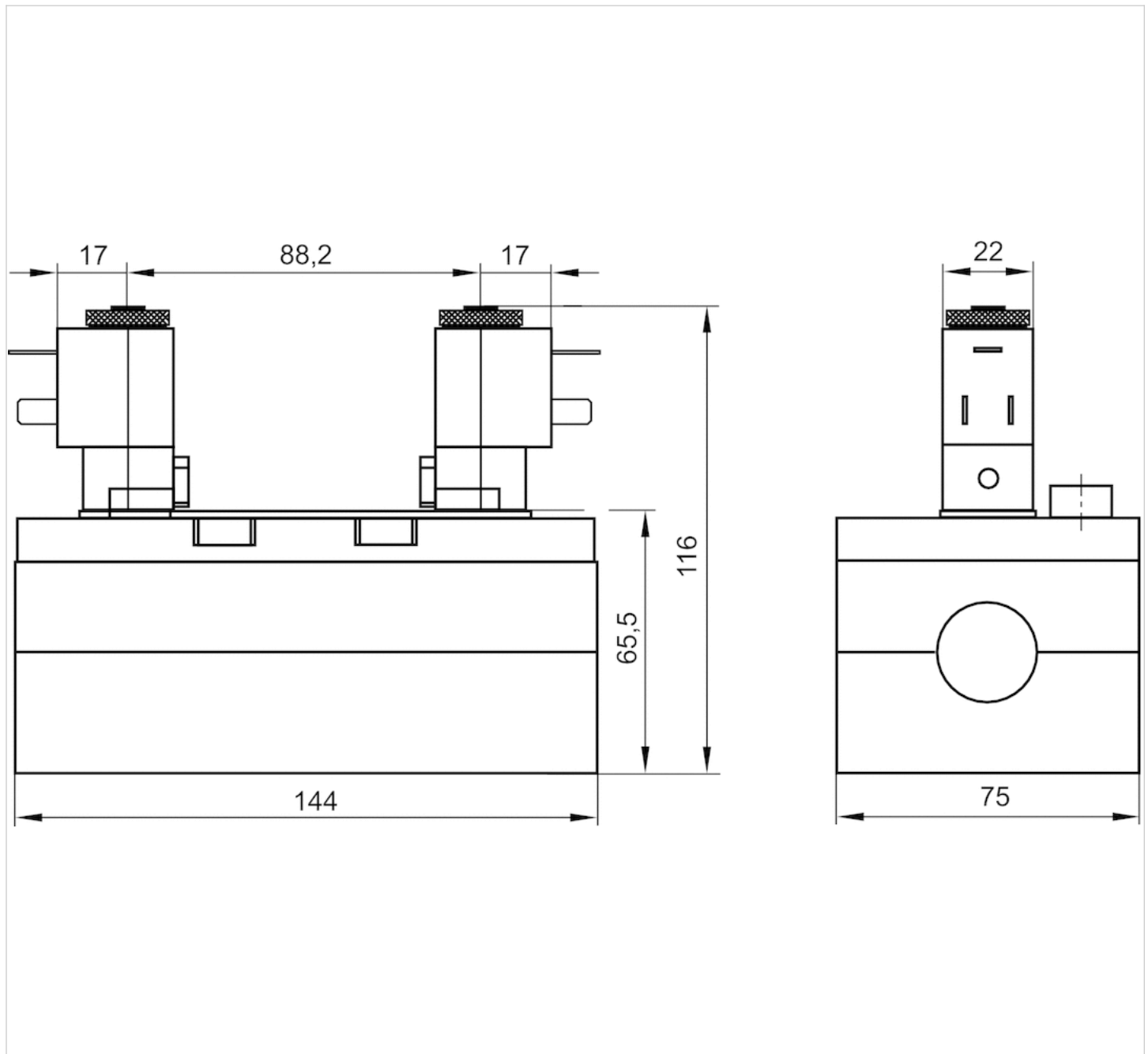
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



The pilot valves can be loosened and turned through 180°.

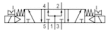

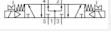

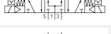

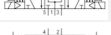

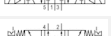



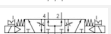

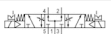

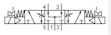

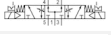

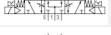

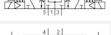

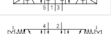

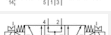

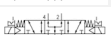



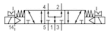





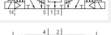

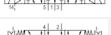

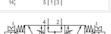

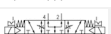



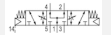







5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- pressurized center
- $Q_n = 5000$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, Form B, industry
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 30 ms |
| Typ. switch-off time | 74 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,44 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5814720500 |  |  | pressurized center | 12 V |
| 5814720200 |  |  | pressurized center | - |
| 5814720100 |  |  | pressurized center | 24 V |
| 5814720600 |  |  | pressurized center | 48 V |
| 5814720300 |  |  | pressurized center | - |
| 5814720400 |  |  | pressurized center | - |
| 5814720000 |  |  | pressurized center | - |
| 5814721500 |  |  | pressurized center | 12 V |
| 5814721200 |  |  | pressurized center | - |
| 5814721100 |  |  | pressurized center | 24 V |
| 5814721600 |  |  | pressurized center | 48 V |
| 5814721300 |  |  | pressurized center | - |
| 5814721400 |  |  | pressurized center | - |
| 5814721000 |  |  | pressurized center | - |
| 5814722500 |  |  | pressurized center | 12 V |
| 5814722200 |  |  | pressurized center | - |
| 5814722100 |  |  | pressurized center | 24 V |
| 5814722600 |  |  | pressurized center | 48 V |
| 5814722300 |  |  | pressurized center | - |
| 5814722400 |  |  | pressurized center | - |
| 5814722000 |  |  | pressurized center | - |
| 5814723500 |  |  | pressurized center | 12 V |
| 5814723200 |  |  | pressurized center | - |
| 5814723100 |  |  | pressurized center | 24 V |
| 5814723600 |  |  | pressurized center | 48 V |
| 5814723300 |  |  | pressurized center | - |
| 5814723400 |  |  | pressurized center | - |
| 5814723000 |  |  | pressurized center | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|------------------------------|------------------------------|----------------------|
| 5814720500 | - | - | -10% / +10% |
| 5814720200 | 24 V | - | - |
| 5814720100 | - | - | -10% / +10% |
| 5814720600 | - | - | -10% / +10% |
| 5814720300 | - | 110 V | - |
| 5814720400 | 230 V | - | - |
| 5814720000 | - | - | - |
| 5814721500 | - | - | -10% / +10% |
| 5814721200 | 24 V | - | - |
| 5814721100 | - | - | -10% / +10% |
| 5814721600 | - | - | -10% / +10% |
| 5814721300 | - | 110 V | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|---------------------------------|---------------------------------|-------------------------|
| 5814721400 | 230 V | - | - |
| 5814721000 | - | - | - |
| 5814722500 | - | - | -10% / +10% |
| 5814722200 | 24 V | - | - |
| 5814722100 | - | - | -10% / +10% |
| 5814722600 | - | - | -10% / +10% |
| 5814722300 | - | 110 V | - |
| 5814722400 | 230 V | - | - |
| 5814722000 | - | - | - |
| 5814723500 | - | - | -10% / +10% |
| 5814723200 | 24 V | - | - |
| 5814723100 | - | - | -10% / +10% |
| 5814723600 | - | - | -10% / +10% |
| 5814723300 | - | 110 V | - |
| 5814723400 | 230 V | - | - |
| 5814723000 | - | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|-------------------------------|-------------------------------|-------------------------|---------------------------|
| 5814720500 | - | - | 5 W | - |
| 5814720200 | -10% / +10% | - | - | 8 VA |
| 5814720100 | - | - | 5 W | - |
| 5814720600 | - | - | 5 W | - |
| 5814720300 | - | -10% / +10% | - | - |
| 5814720400 | -10% / +10% | - | - | 8 VA |
| 5814720000 | - | - | - | - |
| 5814721500 | - | - | 5 W | - |
| 5814721200 | -10% / +10% | - | - | 8 VA |
| 5814721100 | - | - | 5 W | - |
| 5814721600 | - | - | 5 W | - |
| 5814721300 | - | -10% / +10% | - | - |
| 5814721400 | -10% / +10% | - | - | 8 VA |
| 5814721000 | - | - | - | - |
| 5814722500 | - | - | 5 W | - |
| 5814722200 | -10% / +10% | - | - | 8 VA |
| 5814722100 | - | - | 5 W | - |
| 5814722600 | - | - | 5 W | - |
| 5814722300 | - | -10% / +10% | - | - |
| 5814722400 | -10% / +10% | - | - | 8 VA |
| 5814722000 | - | - | - | - |
| 5814723500 | - | - | 5 W | - |
| 5814723200 | -10% / +10% | - | - | 8 VA |
| 5814723100 | - | - | 5 W | - |
| 5814723600 | - | - | 5 W | - |
| 5814723300 | - | -10% / +10% | - | - |
| 5814723400 | -10% / +10% | - | - | 8 VA |
| 5814723000 | - | - | - | - |

| Part No. | Holding power AC 60 Hz | Switch-on power AC 50 Hz | Switch-on power AC 60 Hz | Pilot |
|------------|---------------------------|-----------------------------|-----------------------------|----------|
| 5814720500 | - | - | - | Internal |
| 5814720200 | - | 10 VA | - | Internal |
| 5814720100 | - | - | - | Internal |
| 5814720600 | - | - | - | Internal |
| 5814720300 | 8 VA | - | 10 VA | Internal |
| 5814720400 | - | 10 VA | - | Internal |
| 5814720000 | - | - | - | Internal |
| 5814721500 | - | - | - | Internal |
| 5814721200 | - | 10 VA | - | Internal |
| 5814721100 | - | - | - | Internal |
| 5814721600 | - | - | - | Internal |
| 5814721300 | 8 VA | - | 10 VA | Internal |
| 5814721400 | - | 10 VA | - | Internal |
| 5814721000 | - | - | - | Internal |
| 5814722500 | - | - | - | External |
| 5814722200 | - | 10 VA | - | External |
| 5814722100 | - | - | - | External |
| 5814722600 | - | - | - | External |
| 5814722300 | 8 VA | - | 10 VA | External |
| 5814722400 | - | 10 VA | - | External |
| 5814722000 | - | - | - | External |
| 5814723500 | - | - | - | External |
| 5814723200 | - | 10 VA | - | External |
| 5814723100 | - | - | - | External |
| 5814723600 | - | - | - | External |
| 5814723300 | 8 VA | - | 10 VA | External |
| 5814723400 | - | 10 VA | - | External |
| 5814723000 | - | - | - | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5814720500 | 3 ... 10 bar | Plug Form B, industry |
| 5814720200 | 3 ... 10 bar | Plug Form B, industry |
| 5814720100 | 3 ... 10 bar | Plug Form B, industry |
| 5814720600 | 3 ... 10 bar | Plug Form B, industry |
| 5814720300 | 3 ... 10 bar | Plug Form B, industry |
| 5814720400 | 3 ... 10 bar | Plug Form B, industry |
| 5814720000 | 3 ... 10 bar | Plug Form B, industry |
| 5814721500 | 3 ... 10 bar | Plug Form B, industry |
| 5814721200 | 3 ... 10 bar | Plug Form B, industry |
| 5814721100 | 3 ... 10 bar | Plug Form B, industry |
| 5814721600 | 3 ... 10 bar | Plug Form B, industry |
| 5814721300 | 3 ... 10 bar | Plug Form B, industry |
| 5814721400 | 3 ... 10 bar | Plug Form B, industry |
| 5814721000 | 3 ... 10 bar | Plug Form B, industry |
| 5814722500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814722200 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5814722100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814722600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814722300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814722400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814722000 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723200 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5814723000 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5814720500 | - | - |
| 5814720200 | - | - |
| 5814720100 | - | - |
| 5814720600 | - | - |
| 5814720300 | - | - |
| 5814720400 | - | - |
| 5814720000 | Basic valve without coil | - |
| 5814721500 | - | with throttle |
| 5814721200 | - | with throttle |
| 5814721100 | - | with throttle |
| 5814721600 | - | with throttle |
| 5814721300 | - | with throttle |
| 5814721400 | - | with throttle |
| 5814721000 | Basic valve without coil | with throttle |
| 5814722500 | - | - |
| 5814722200 | - | - |
| 5814722100 | - | - |
| 5814722600 | - | - |
| 5814722300 | - | - |
| 5814722400 | - | - |
| 5814722000 | Basic valve without coil | - |
| 5814723500 | - | with throttle |
| 5814723200 | - | with throttle |
| 5814723100 | - | with throttle |
| 5814723600 | - | with throttle |
| 5814723300 | - | with throttle |
| 5814723400 | - | with throttle |
| 5814723000 | Basic valve without coil | with throttle |

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

Technical information

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

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

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

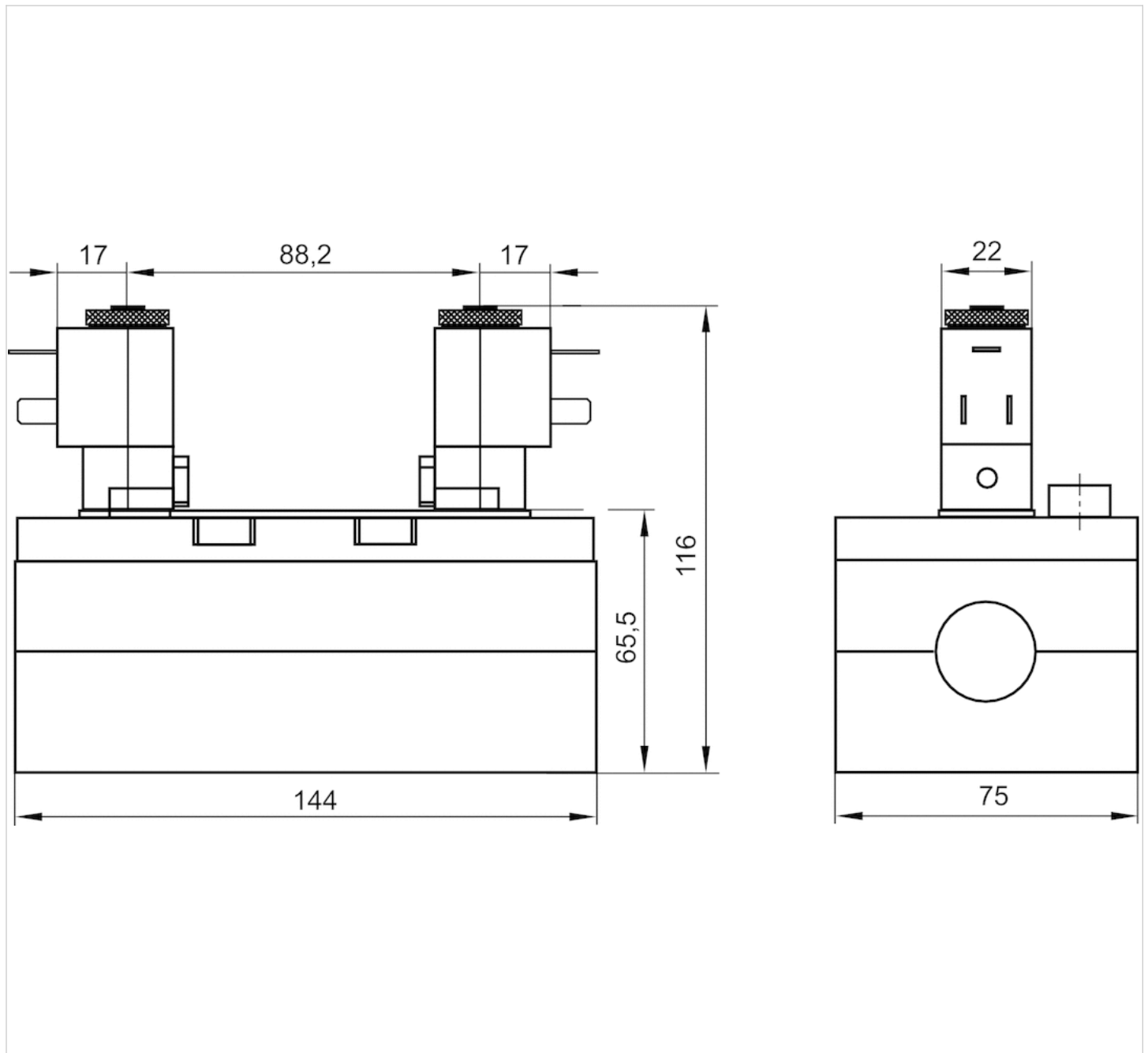
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



The pilot valves can be loosened and turned through 180°.

















5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5814170540 |  |  | 24 V | 42 V |
| 5814170440 |  |  | - | 230 V |
| 5814171540 |  |  | 24 V | 42 V |
| 5814171440 |  |  | - | 230 V |
| 5814172540 |  |  | 24 V | 42 V |
| 5814172440 |  |  | - | 230 V |
| 5814173540 |  |  | 24 V | 42 V |
| 5814173440 |  |  | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814170540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814170440 | - | -10% / +10% | - | 10,8 VA |
| 5814171540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814171440 | - | -10% / +10% | - | 10,8 VA |
| 5814172540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814172440 | - | -10% / +10% | - | 10,8 VA |
| 5814173540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814173440 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5814170540 | 12 VA | Internal | 3 ... 16 bar |
| 5814170440 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814171540 | 12 VA | Internal | 3 ... 16 bar |
| 5814171440 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814172540 | 12 VA | External | -0,95 ... 16 bar |
| 5814172440 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814173540 | 12 VA | External | -0,95 ... 16 bar |
| 5814173440 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814170540 | Plug EN 175301-803, form A | - |
| 5814170440 | Plug EN 175301-803, form A | - |
| 5814171540 | Plug EN 175301-803, form A | with throttle |
| 5814171440 | Plug EN 175301-803, form A | with throttle |
| 5814172540 | Plug EN 175301-803, form A | - |
| 5814172440 | Plug EN 175301-803, form A | - |
| 5814173540 | Plug EN 175301-803, form A | with throttle |
| 5814173440 | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

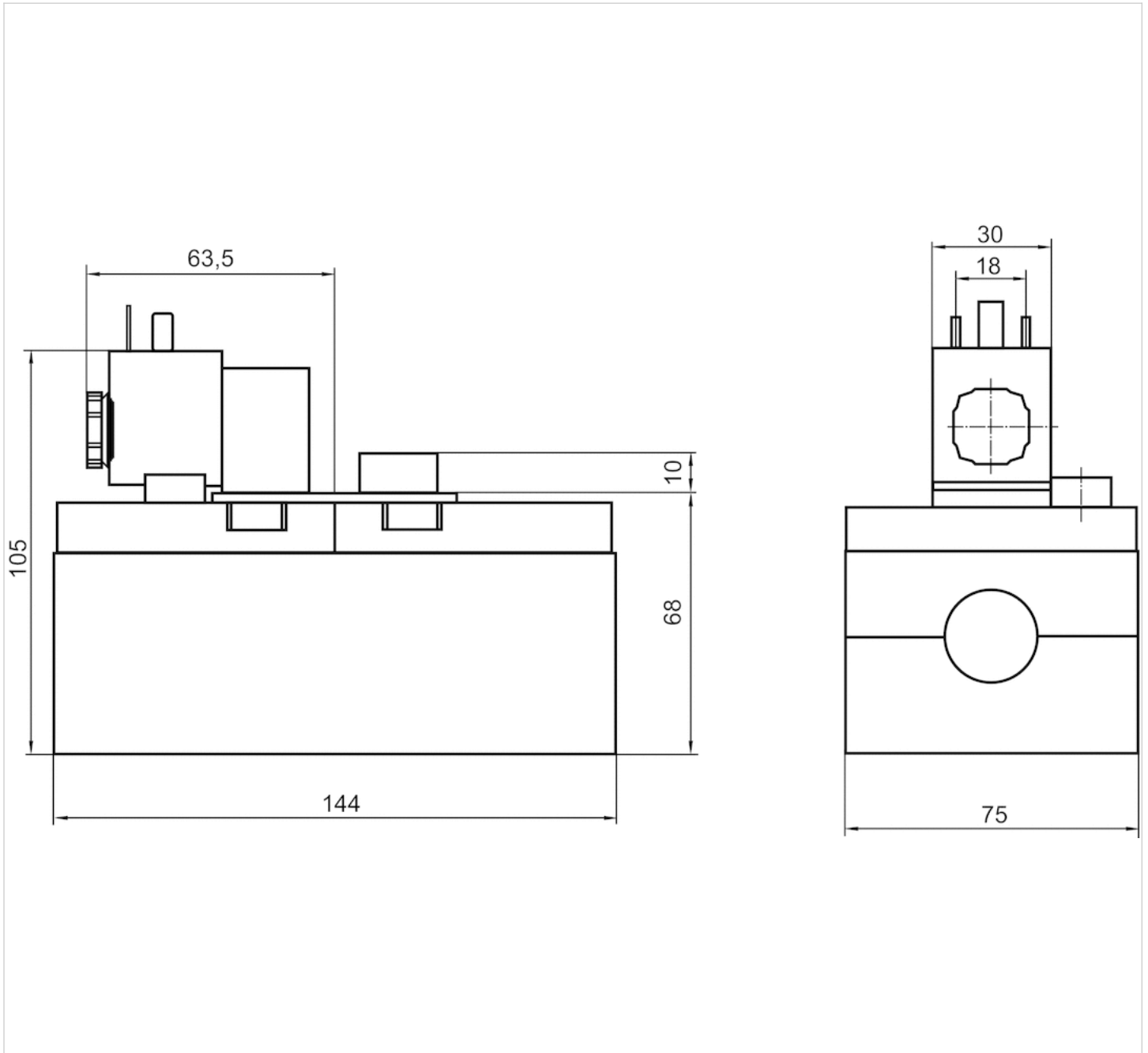
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



















5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 21 ms |
| Typ. switch-off time | 21 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,57 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5814290540 |  |  | 24 V | 42 V |
| 5814290440 |  |  | - | 230 V |
| 5814291540 |  |  | 24 V | 42 V |
| 5814291440 |  |  | - | 230 V |
| 5814292540 |  |  | 24 V | 42 V |
| 5814292440 |  |  | - | 230 V |
| 5814293540 |  |  | 24 V | 42 V |
| 5814293440 |  |  | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814290540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814290440 | - | -10% / +10% | - | 10,8 VA |
| 5814291540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814291440 | - | -10% / +10% | - | 10,8 VA |
| 5814292540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814292440 | - | -10% / +10% | - | 10,8 VA |
| 5814293540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814293440 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5814290540 | 12 VA | Internal | 1,5 ... 16 bar |
| 5814290440 | 15,2 VA | Internal | 1,5 ... 16 bar |
| 5814291540 | 12 VA | Internal | 1,5 ... 16 bar |
| 5814291440 | 15,2 VA | Internal | 1,5 ... 16 bar |
| 5814292540 | 12 VA | External | -0,95 ... 16 bar |
| 5814292440 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814293540 | 12 VA | External | -0,95 ... 16 bar |
| 5814293440 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814290540 | Plug EN 175301-803, form A | - |
| 5814290440 | Plug EN 175301-803, form A | - |
| 5814291540 | Plug EN 175301-803, form A | with throttle |
| 5814291440 | Plug EN 175301-803, form A | with throttle |
| 5814292540 | Plug EN 175301-803, form A | - |
| 5814292440 | Plug EN 175301-803, form A | - |
| 5814293540 | Plug EN 175301-803, form A | with throttle |
| 5814293440 | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

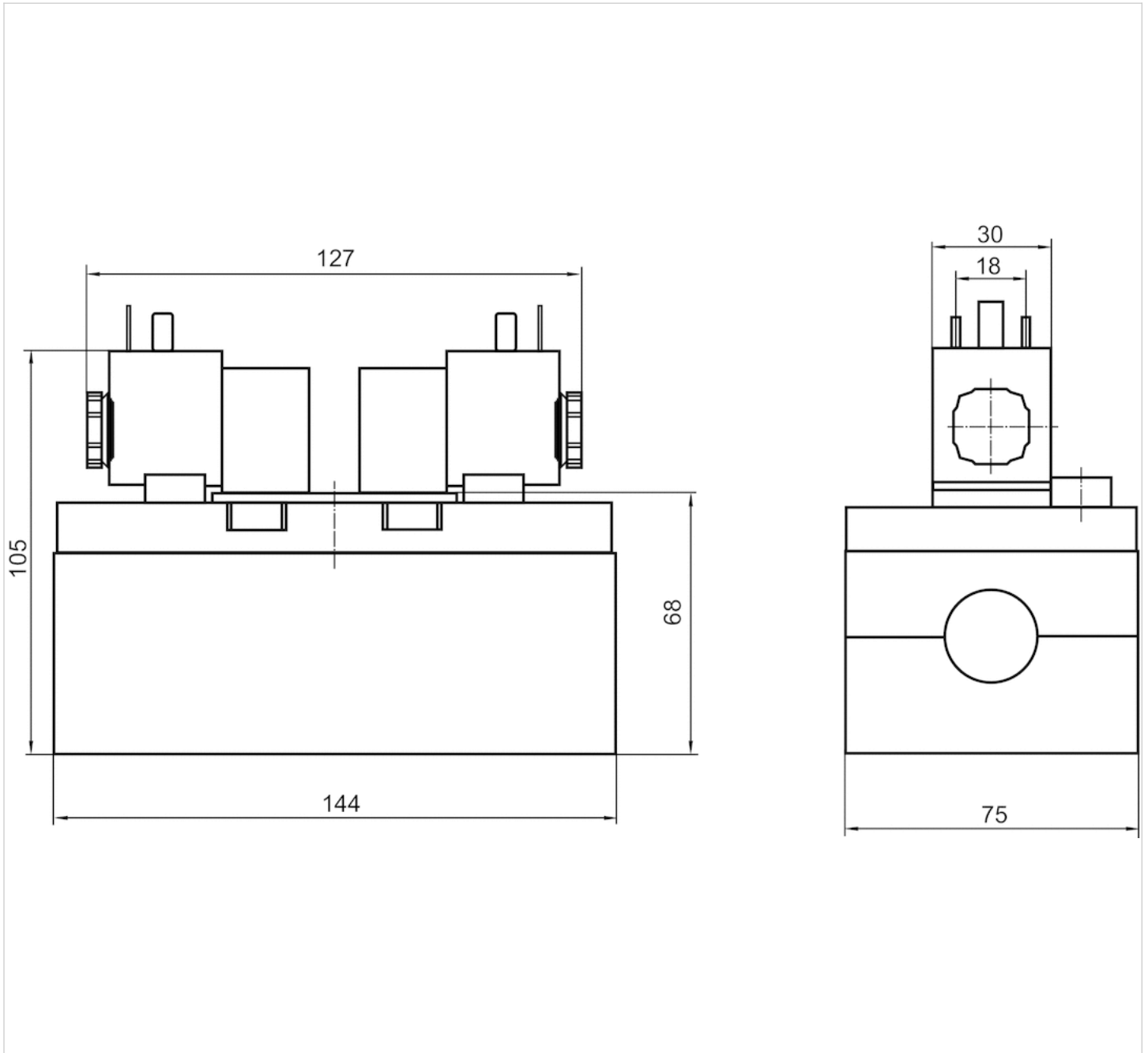
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



















5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5814670540 |  |  | 24 V | 42 V |
| 5814670440 |  |  | - | 230 V |
| 5814671540 |  |  | 24 V | 42 V |
| 5814671440 |  |  | - | 230 V |
| 5814672540 |  |  | 24 V | 42 V |
| 5814672440 |  |  | - | 230 V |
| 5814673540 |  |  | 24 V | 42 V |
| 5814673440 |  |  | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814670540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814670440 | - | -10% / +10% | - | 10,8 VA |
| 5814671540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814671440 | - | -10% / +10% | - | 10,8 VA |
| 5814672540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814672440 | - | -10% / +10% | - | 10,8 VA |
| 5814673540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5814673440 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5814670540 | 12 VA | Internal | 1,5 ... 16 bar |
| 5814670440 | 15,2 VA | Internal | 1,5 ... 16 bar |
| 5814671540 | 12 VA | Internal | 1,5 ... 16 bar |
| 5814671440 | 15,2 VA | Internal | 1,5 ... 16 bar |
| 5814672540 | 12 VA | External | -0,95 ... 16 bar |
| 5814672440 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814673540 | 12 VA | External | -0,95 ... 16 bar |
| 5814673440 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814670540 | Plug EN 175301-803, form A | - |
| 5814670440 | Plug EN 175301-803, form A | - |
| 5814671540 | Plug EN 175301-803, form A | with throttle |
| 5814671440 | Plug EN 175301-803, form A | with throttle |
| 5814672540 | Plug EN 175301-803, form A | - |
| 5814672440 | Plug EN 175301-803, form A | - |
| 5814673540 | Plug EN 175301-803, form A | with throttle |
| 5814673440 | Plug EN 175301-803, form A | with throttle |

Differential piston, signal 14 has priority, The minimum pilot pressure at port 14 is dependent on the pressure in port 1., Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

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.

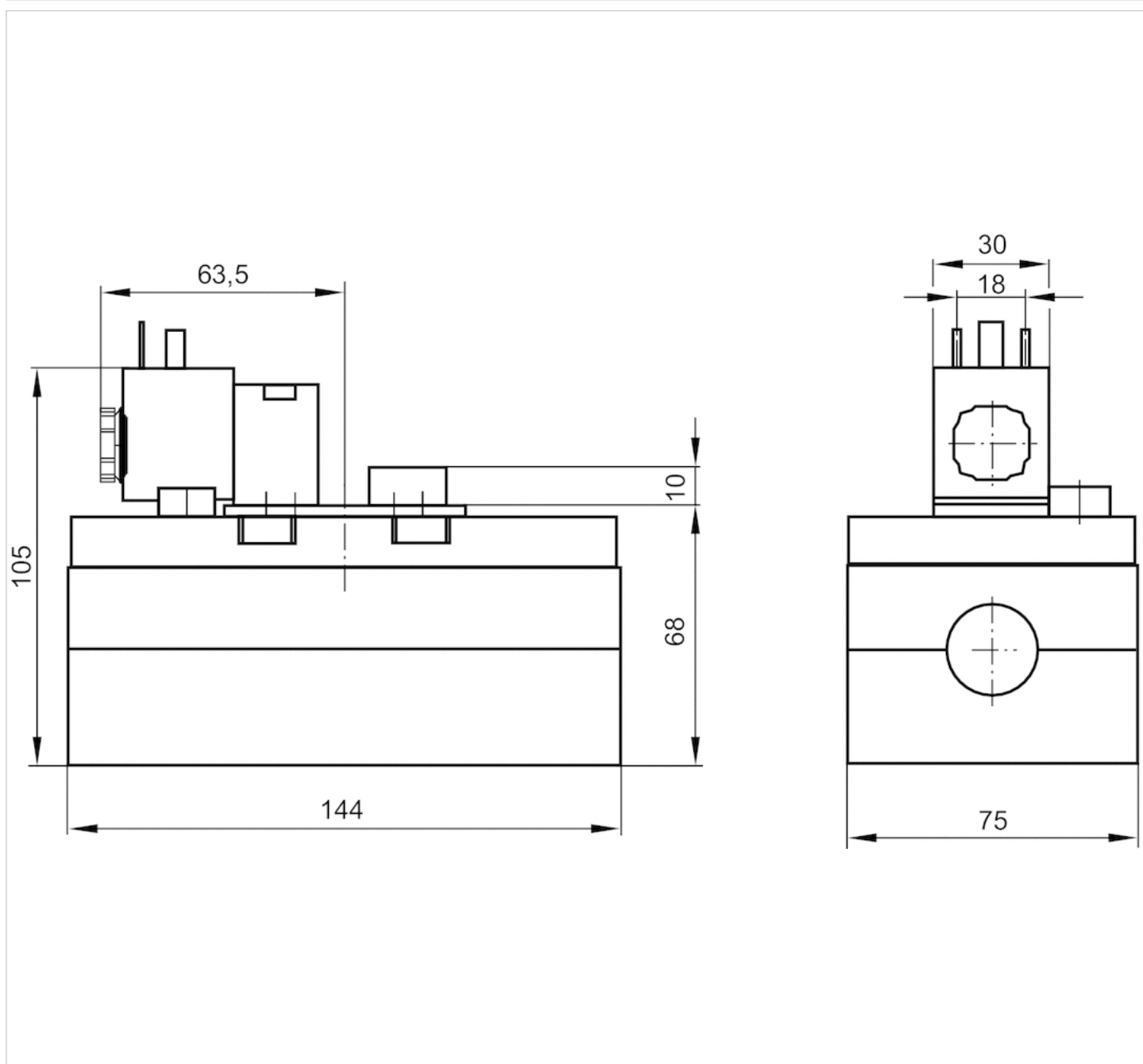
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|--|--------------------------|------------------------|------------------------------|
| 5814170650 | | TT-R-TT-R-TT-R-TT-R-TT-R | 24 V | - |
| 5814170450 | | | - | 230 V |
| 5814171650 | | | 24 V | - |
| 5814171450 | | | - | 230 V |
| 5814172650 | | | 24 V | - |
| 5814172450 | | | - | 230 V |
| 5814173650 | | | 24 V | - |
| 5814173450 | | | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814170650 | -10% / +10% | - | 2 W | - |
| 5814170450 | - | -10% / +10% | - | 4,8 VA |
| 5814171650 | -10% / +10% | - | 2 W | - |
| 5814171450 | - | -10% / +10% | - | 4,8 VA |
| 5814172650 | -10% / +10% | - | 2 W | - |
| 5814172450 | - | -10% / +10% | - | 4,8 VA |
| 5814173650 | -10% / +10% | - | 2 W | - |
| 5814173450 | - | -10% / +10% | - | 4,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. | Compatibility index |
|------------|--------------------------|----------|----------------------------|---------------------|
| 5814170650 | - | Internal | 3 ... 10 bar | 14 |
| 5814170450 | 7 VA | Internal | 3 ... 10 bar | 14 |
| 5814171650 | - | Internal | 3 ... 10 bar | 14 |
| 5814171450 | 7 VA | Internal | 3 ... 10 bar | 14 |
| 5814172650 | - | External | -0,95 ... 10 bar | 14 |
| 5814172450 | 7 VA | External | -0,95 ... 10 bar | 14 |
| 5814173650 | - | External | -0,95 ... 10 bar | 14 |
| 5814173450 | 7 VA | External | -0,95 ... 10 bar | 14 |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814170650 | Plug EN 175301-803, form A | - |
| 5814170450 | Plug EN 175301-803, form A | - |
| 5814171650 | Plug EN 175301-803, form A | with throttle |
| 5814171450 | Plug EN 175301-803, form A | with throttle |
| 5814172650 | Plug EN 175301-803, form A | - |
| 5814172450 | Plug EN 175301-803, form A | - |
| 5814173650 | Plug EN 175301-803, form A | with throttle |
| 5814173450 | Plug EN 175301-803, form A | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

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.

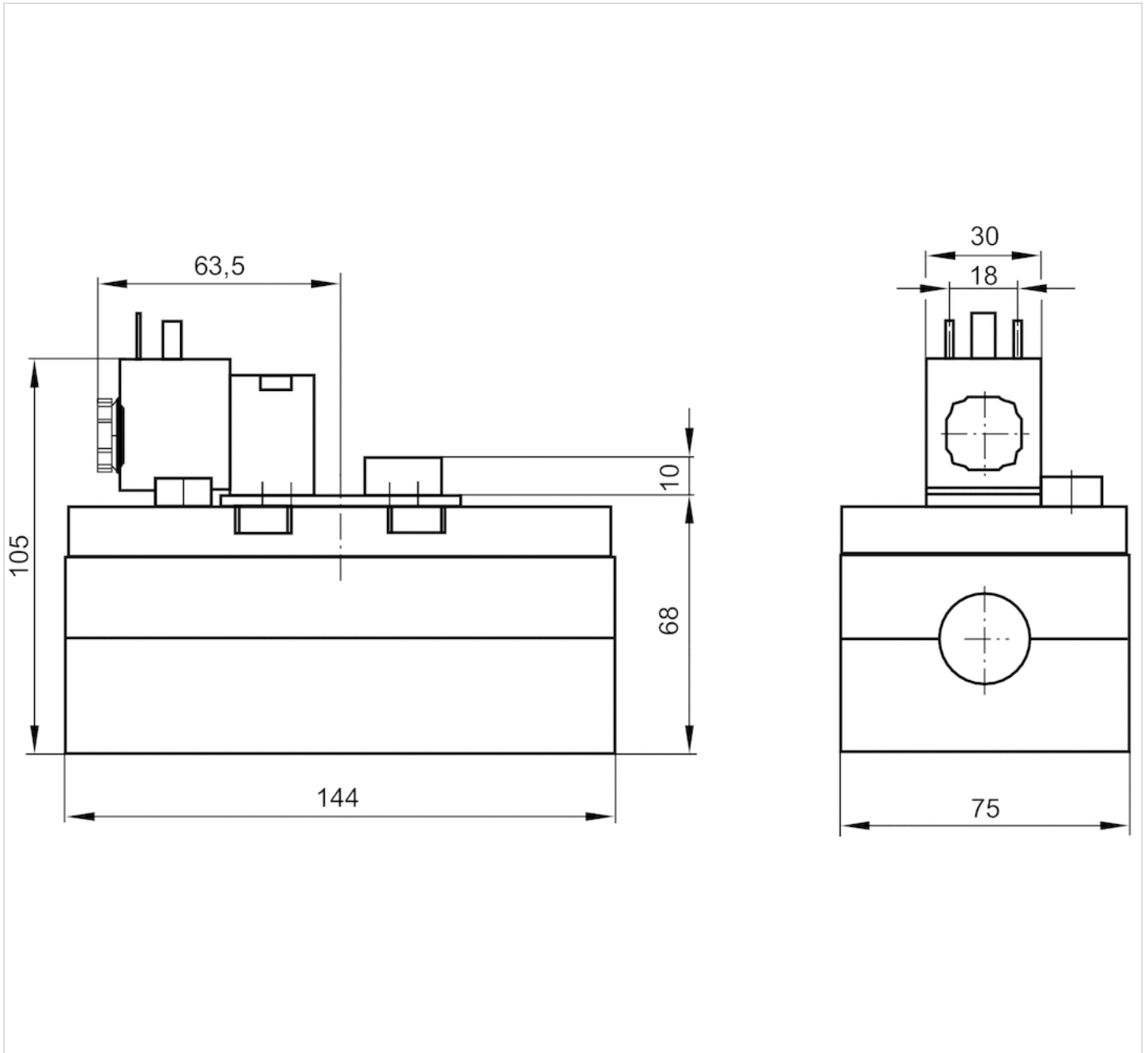
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- Qn = 6000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m³ |
| Nominal flow Qn | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 21 ms |
| Typ. switch-off time | 21 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,57 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|----------------------------------|------------------------|------------------------------|
| 5814290650 |  | TT-R-T-R-T-R-T-R-T-R-T-R-T-R-T-R | 24 V | - |
| 5814290450 |  | | - | 230 V |
| 5814291650 |  | | 24 V | - |
| 5814291450 |  | | - | 230 V |
| 5814292650 |  | | 24 V | - |
| 5814292450 |  | | - | 230 V |
| 5814293650 |  | | 24 V | - |
| 5814293450 |  | | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814290650 | -10% / +10% | - | 2 W | - |
| 5814290450 | - | -10% / +10% | - | 4,8 VA |
| 5814291650 | -10% / +10% | - | 2 W | - |
| 5814291450 | - | -10% / +10% | - | 4,8 VA |
| 5814292650 | -10% / +10% | - | 2 W | - |
| 5814292450 | - | -10% / +10% | - | 4,8 VA |
| 5814293650 | -10% / +10% | - | 2 W | - |
| 5814293450 | - | -10% / +10% | - | 4,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. | Compatibility index |
|------------|--------------------------|----------|----------------------------|---------------------|
| 5814290650 | - | Internal | 1,5 ... 10 bar | 14 |
| 5814290450 | 7 VA | Internal | 1,5 ... 10 bar | 14 |
| 5814291650 | - | Internal | 1,5 ... 10 bar | 14 |
| 5814291450 | 7 VA | Internal | 1,5 ... 10 bar | 14 |
| 5814292650 | - | External | -0,95 ... 10 bar | 14 |
| 5814292450 | 7 VA | External | -0,95 ... 10 bar | 14 |
| 5814293650 | - | External | -0,95 ... 10 bar | 14 |
| 5814293450 | 7 VA | External | -0,95 ... 10 bar | 14 |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814290650 | Plug EN 175301-803, form A | - |
| 5814290450 | Plug EN 175301-803, form A | - |
| 5814291650 | Plug EN 175301-803, form A | with throttle |
| 5814291450 | Plug EN 175301-803, form A | with throttle |
| 5814292650 | Plug EN 175301-803, form A | - |
| 5814292450 | Plug EN 175301-803, form A | - |
| 5814293650 | Plug EN 175301-803, form A | with throttle |
| 5814293450 | Plug EN 175301-803, form A | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

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.

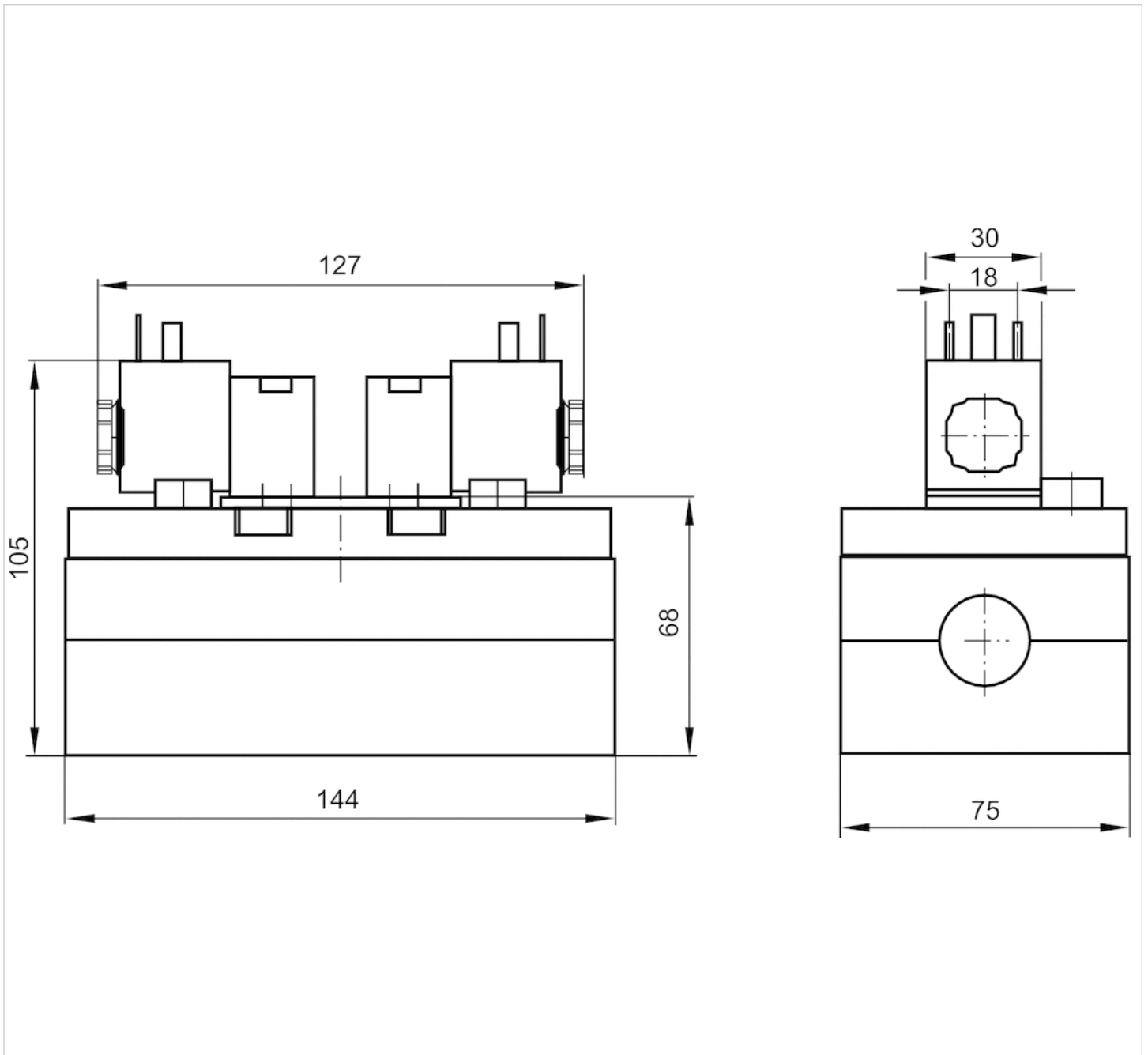
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|--------------------|------------------------|------------------------------|
| 5814670650 |  | TTR-TR-TR-TR-TR-TR | 24 V | - |
| 5814670450 |  | | - | 230 V |
| 5814671650 |  | | 24 V | - |
| 5814671450 |  | | - | 230 V |
| 5814672650 |  | | 24 V | - |
| 5814672450 |  | | - | 230 V |
| 5814673650 |  | | 24 V | - |
| 5814673450 |  | | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814670650 | -10% / +10% | - | 2 W | - |
| 5814670450 | - | -10% / +10% | - | 4,8 VA |
| 5814671650 | -10% / +10% | - | 2 W | - |
| 5814671450 | - | -10% / +10% | - | 4,8 VA |
| 5814672650 | -10% / +10% | - | 2 W | - |
| 5814672450 | - | -10% / +10% | - | 4,8 VA |
| 5814673650 | -10% / +10% | - | 2 W | - |
| 5814673450 | - | -10% / +10% | - | 4,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. | Compatibility index |
|------------|--------------------------|----------|----------------------------|---------------------|
| 5814670650 | - | Internal | 1,5 ... 10 bar | 14 |
| 5814670450 | 7 VA | Internal | 1,5 ... 10 bar | 14 |
| 5814671650 | - | Internal | 1,5 ... 10 bar | 14 |
| 5814671450 | 7 VA | Internal | 1,5 ... 10 bar | 14 |
| 5814672650 | - | External | -0,95 ... 10 bar | 14 |
| 5814672450 | 7 VA | External | -0,95 ... 10 bar | 14 |
| 5814673650 | - | External | -0,95 ... 10 bar | 14 |
| 5814673450 | 7 VA | External | -0,95 ... 10 bar | 14 |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814670650 | Plug EN 175301-803, form A | - |
| 5814670450 | Plug EN 175301-803, form A | - |
| 5814671650 | Plug EN 175301-803, form A | with throttle |
| 5814671450 | Plug EN 175301-803, form A | with throttle |
| 5814672650 | Plug EN 175301-803, form A | - |
| 5814672450 | Plug EN 175301-803, form A | - |
| 5814673650 | Plug EN 175301-803, form A | with throttle |
| 5814673450 | Plug EN 175301-803, form A | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

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).

Differential piston, signal 14 has priority

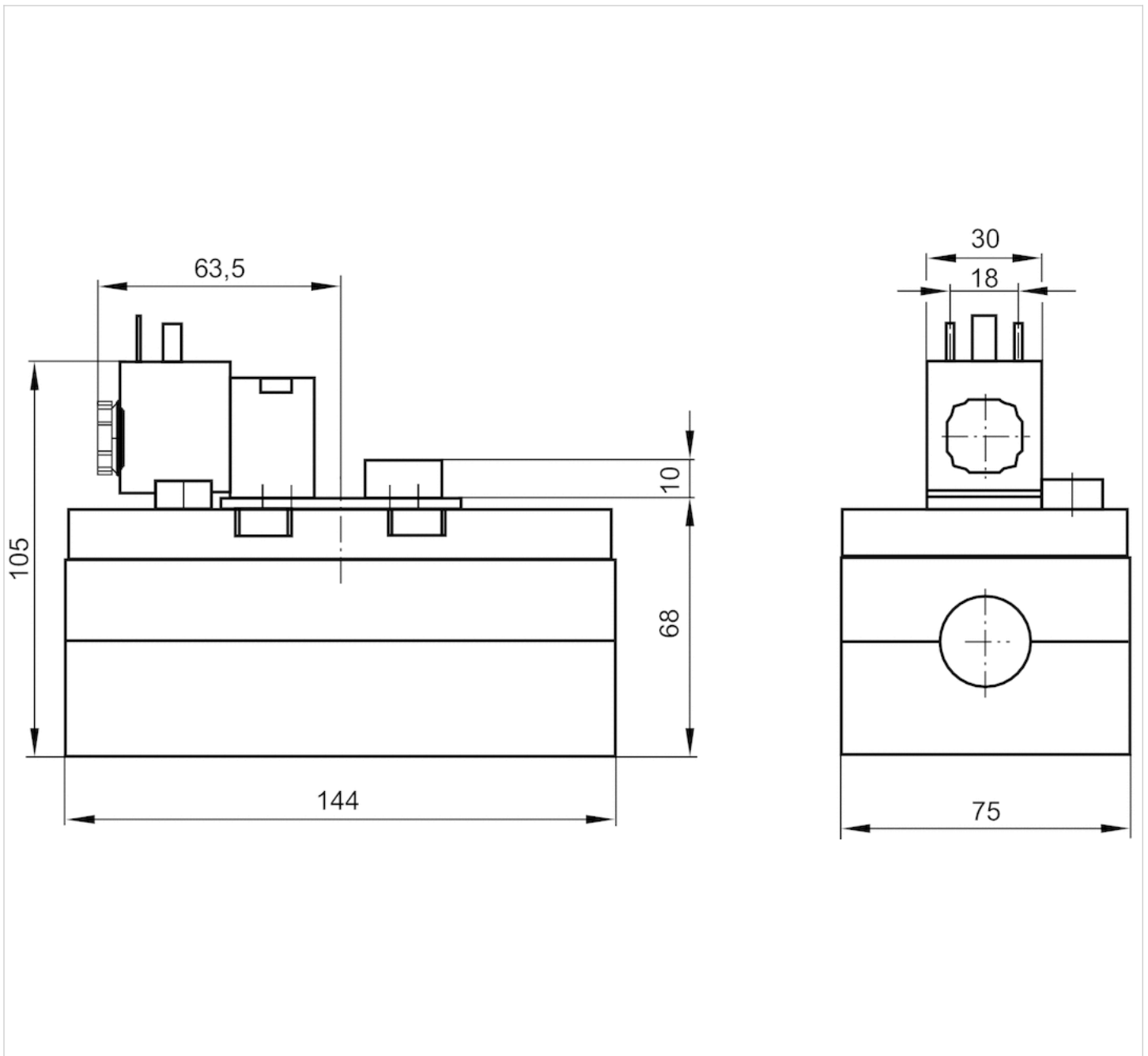
The minimum pilot pressure at port 14 is dependent on the pressure in port 1.

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 21 ms |
| Typ. switch-off time | 21 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,57 kg |

Technical data

| Part No. | | Operational voltage DC | Operational voltage AC 50 Hz | Voltage tolerance DC |
|------------|---|------------------------|------------------------------|----------------------|
| 5814290530 |  | 24 V | - | -10% / +10% |
| 5814290430 |  | - | 230 V | - |
| 5814291530 |  | 24 V | - | -10% / +10% |
| 5814291430 |  | - | 230 V | - |
| 5814292530 |  | 24 V | - | -10% / +10% |
| 5814292430 |  | - | 230 V | - |
| 5814293530 |  | 24 V | - | -10% / +10% |
| 5814293430 |  | - | 230 V | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|----------------------------|----------------------|------------------------|--------------------------|
| 5814290530 | -10% / +10% | 6,7 W | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------------|-------------------------|---------------------------|-----------------------------|
| 5814290430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814291530 | -10% / +10% | 6,7 W | - | - |
| 5814291430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814292530 | -10% / +10% | 6,7 W | - | - |
| 5814292430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814293530 | -10% / +10% | 6,7 W | - | - |
| 5814293430 | -10% / +10% | - | 10,8 VA | 15,2 VA |

| Part No. | Pilot | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------|----------------------------|--------------------------------------|---------------|
| 5814290530 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814290430 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814291530 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814291430 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814292530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814292430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814293530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814293430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

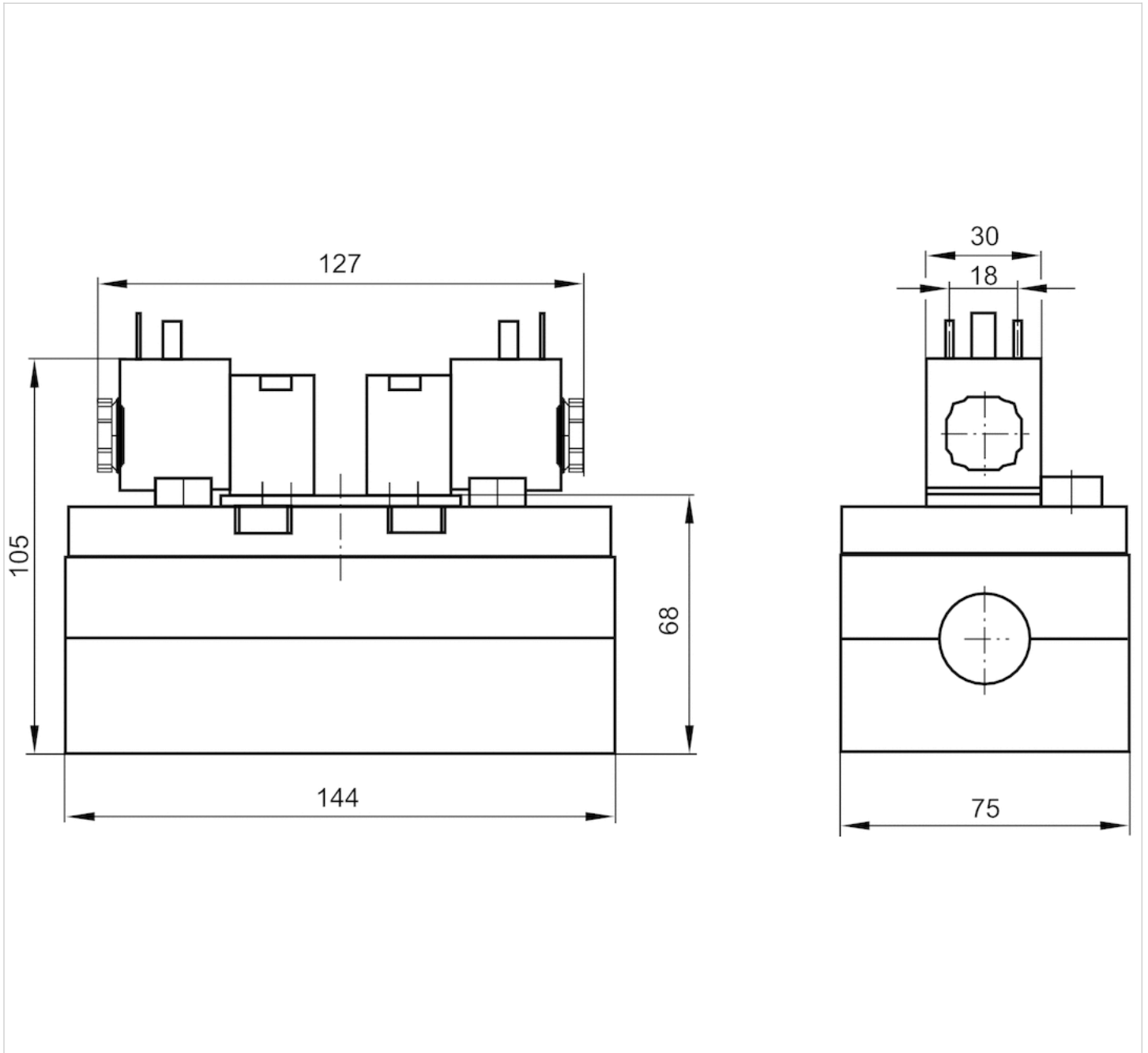
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,4 kg |

Technical data

| Part No. | | Operational voltage DC | Operational voltage AC 50 Hz | Voltage tolerance DC |
|------------|---|------------------------|------------------------------|----------------------|
| 5814670530 |  | 24 V | - | -10% / +10% |
| 5814670430 |  | - | 230 V | - |
| 5814671530 |  | 24 V | - | -10% / +10% |
| 5814671430 |  | - | 230 V | - |
| 5814672530 |  | 24 V | - | -10% / +10% |
| 5814672430 |  | - | 230 V | - |
| 5814673530 |  | 24 V | - | -10% / +10% |
| 5814673430 |  | - | 230 V | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------------|-------------------------|---------------------------|-----------------------------|
| 5814670530 | -10% / +10% | 6,7 W | - | - |
| 5814670430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814671530 | -10% / +10% | 6,7 W | - | - |
| 5814671430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814672530 | -10% / +10% | 6,7 W | - | - |
| 5814672430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814673530 | -10% / +10% | 6,7 W | - | - |
| 5814673430 | -10% / +10% | - | 10,8 VA | 15,2 VA |

| Part No. | Pilot | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------|----------------------------|--------------------------------------|---------------|
| 5814670530 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814670430 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814671530 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814671430 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814672530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814672430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814673530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814673430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |

Differential piston, signal 14 has priority, The minimum pilot pressure at port 14 is dependent on the pressure in port 1., Nominal flow Qn at 6 bar and $\Delta p = 1$ bar

Technical information

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

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

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

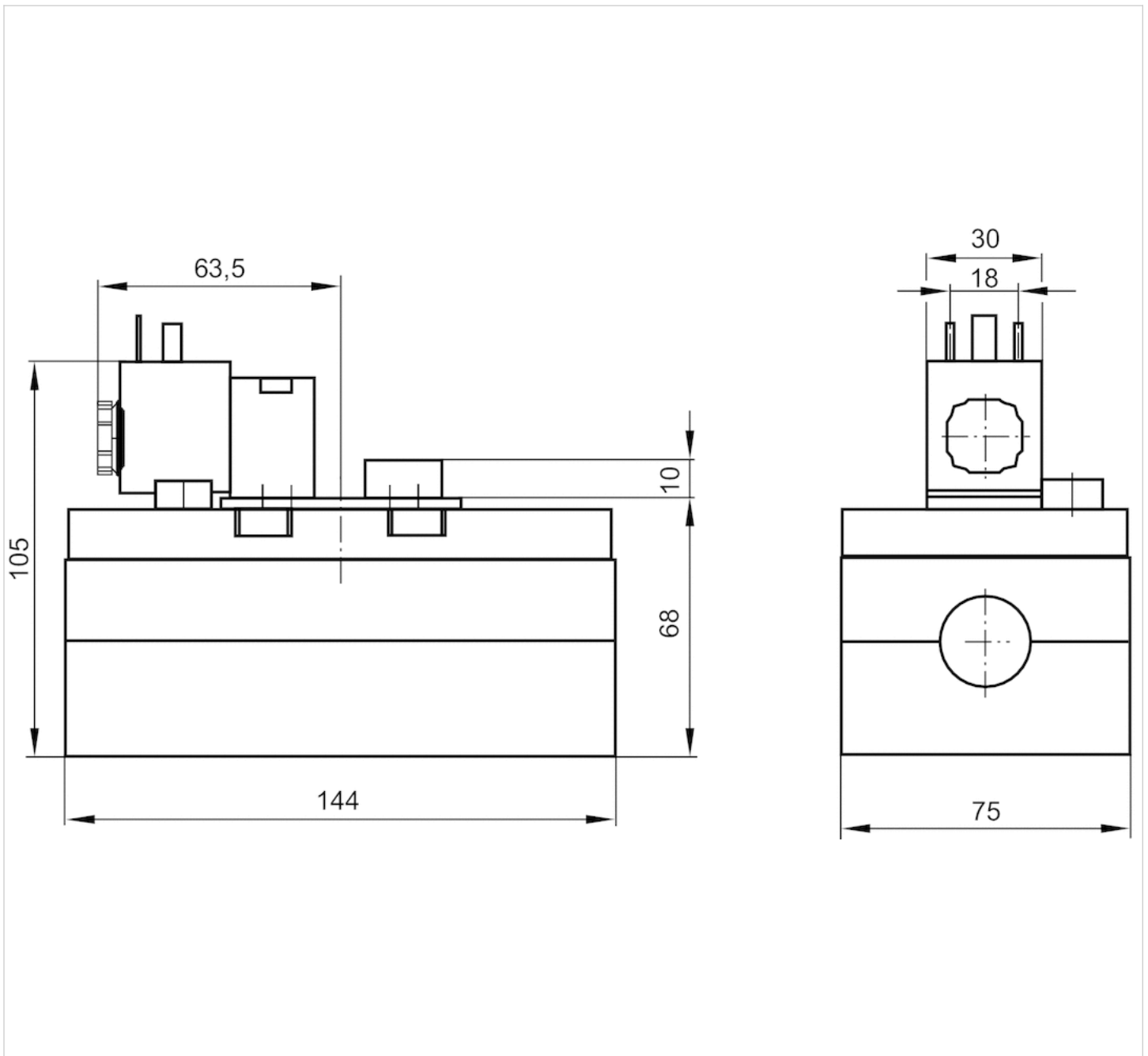
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,4 kg |

Technical data

| Part No. | | Operational voltage DC | Operational voltage AC 50 Hz | Voltage tolerance DC |
|------------|---|------------------------|------------------------------|----------------------|
| 5814170530 |  | 24 V | - | -10% / +10% |
| 5814170430 |  | - | 230 V | - |
| 5814171530 |  | 24 V | - | -10% / +10% |
| 5814171430 |  | - | 230 V | - |
| 5814172530 |  | 24 V | - | -10% / +10% |
| 5814172430 |  | - | 230 V | - |
| 5814173530 |  | 24 V | - | -10% / +10% |
| 5814173430 |  | - | 230 V | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------------|-------------------------|---------------------------|-----------------------------|
| 5814170530 | -10% / +10% | 6,7 W | - | - |
| 5814170430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814171530 | -10% / +10% | 6,7 W | - | - |
| 5814171430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814172530 | -10% / +10% | 6,7 W | - | - |
| 5814172430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5814173530 | -10% / +10% | 6,7 W | - | - |
| 5814173430 | -10% / +10% | - | 10,8 VA | 15,2 VA |

| Part No. | Pilot | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------|----------------------------|--------------------------------------|---------------|
| 5814170530 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814170430 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814171530 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814171430 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814172530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814172430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814173530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814173430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

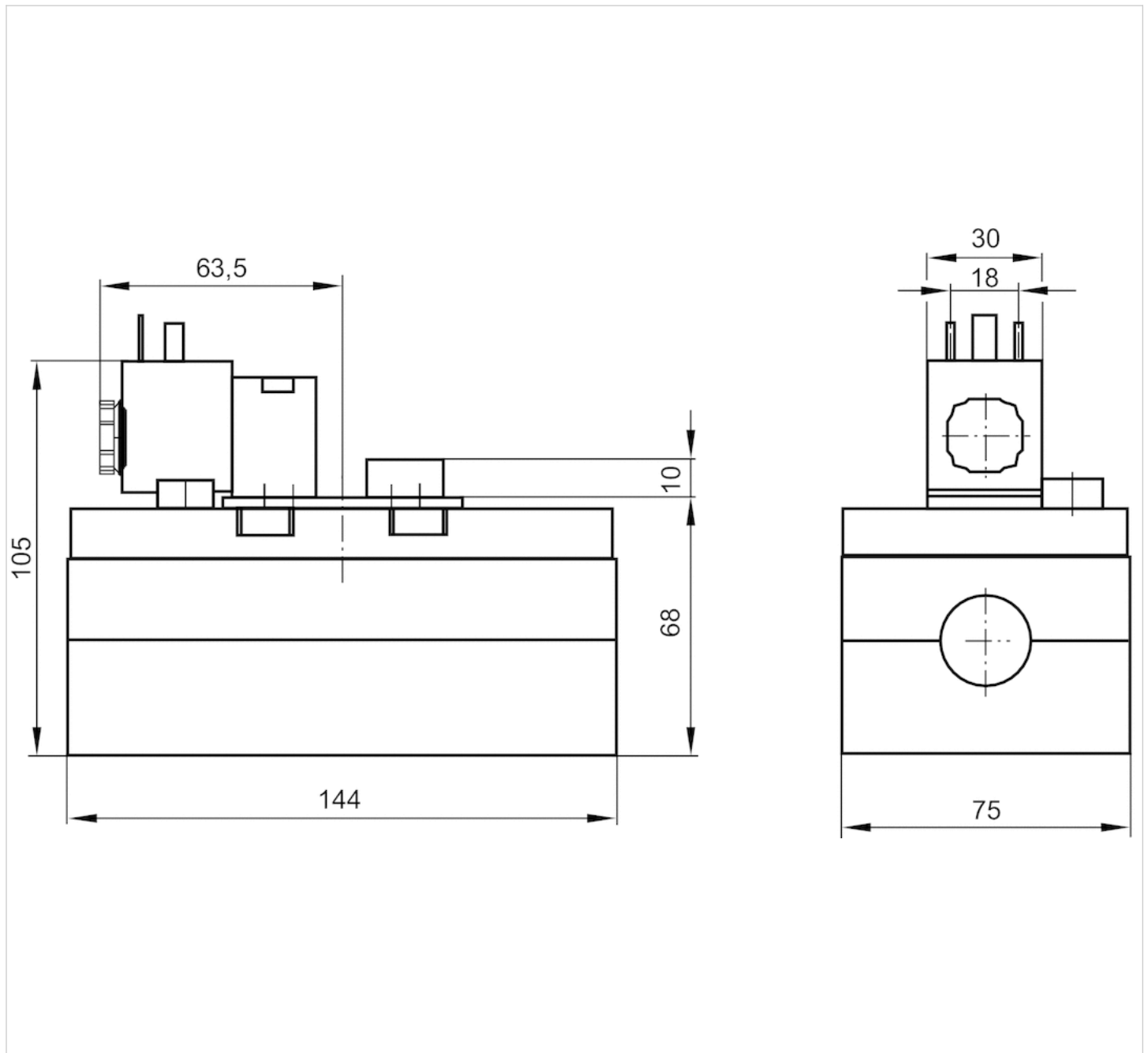
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 21 ms |
| Typ. switch-off time | 21 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,65 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5814290190 |  |  | 24 V | -10% / +10% |
| 5814291190 |  |  | 24 V | -10% / +10% |
| 5814292190 |  |  | 24 V | -10% / +10% |
| 5814293190 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5814290190 | 6 W | Internal | 1,5 ... 10 bar |
| 5814291190 | 6 W | Internal | 1,5 ... 10 bar |
| 5814292190 | 6 W | External | -0,95 ... 10 bar |
| 5814293190 | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5814290190 | Plug EN 175301-803, form A | - |
| 5814291190 | Plug EN 175301-803, form A | with throttle |
| 5814292190 | Plug EN 175301-803, form A | - |
| 5814293190 | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

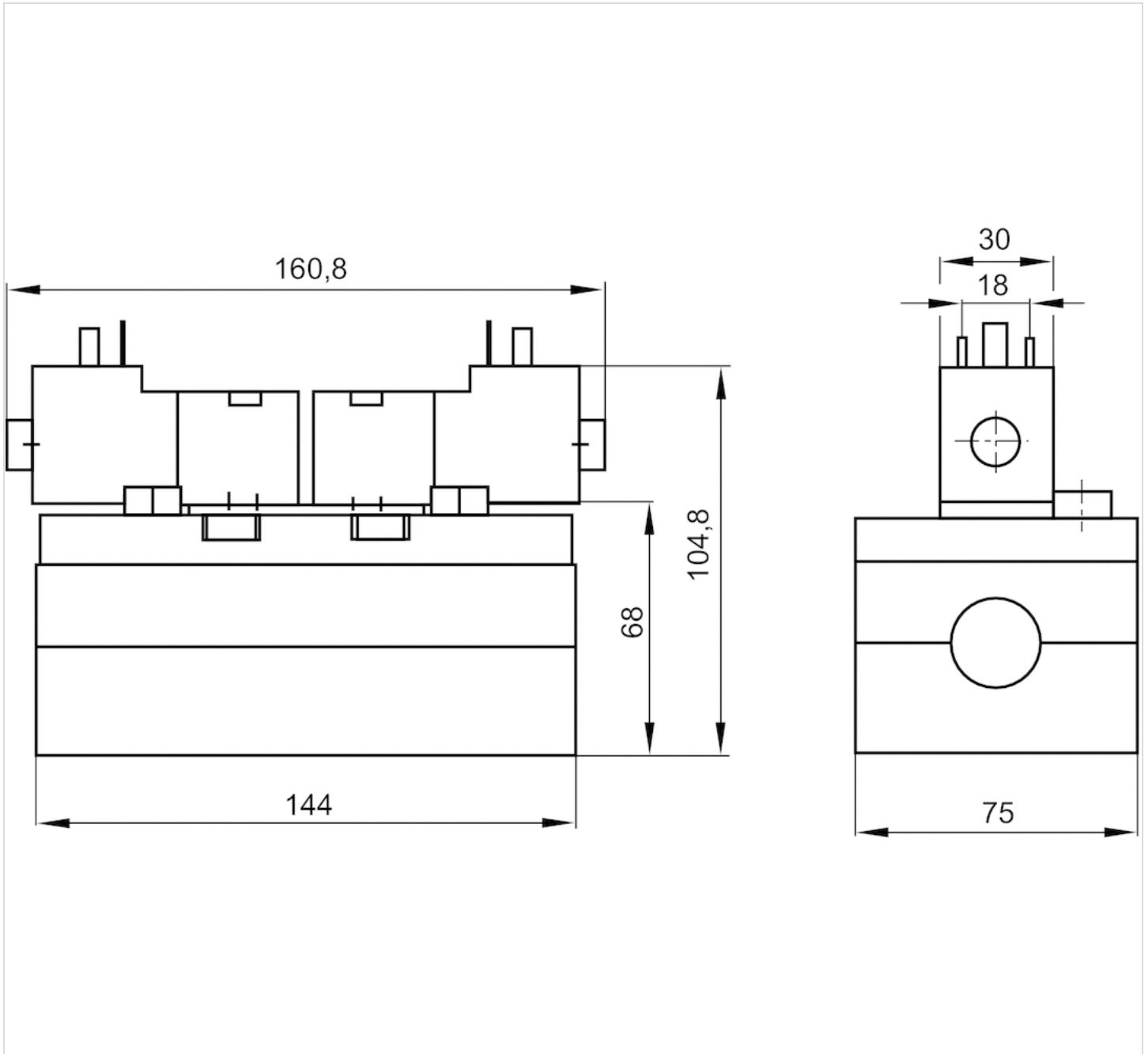
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,44 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5814670190 |  |  | 24 V | -10% / +10% |
| 5814671190 |  |  | 24 V | -10% / +10% |
| 5814672190 |  |  | 24 V | -10% / +10% |
| 5814673190 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5814670190 | 6 W | Internal | 1,5 ... 10 bar |
| 5814671190 | 6 W | Internal | 1,5 ... 10 bar |
| 5814672190 | 6 W | External | -0,95 ... 10 bar |
| 5814673190 | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5814670190 | Plug EN 175301-803, form A | - |
| 5814671190 | Plug EN 175301-803, form A | with throttle |
| 5814672190 | Plug EN 175301-803, form A | - |
| 5814673190 | Plug EN 175301-803, form A | with throttle |

Differential piston, signal 14 has priority, The minimum pilot pressure at port 14 is dependent on the pressure in port 1., Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

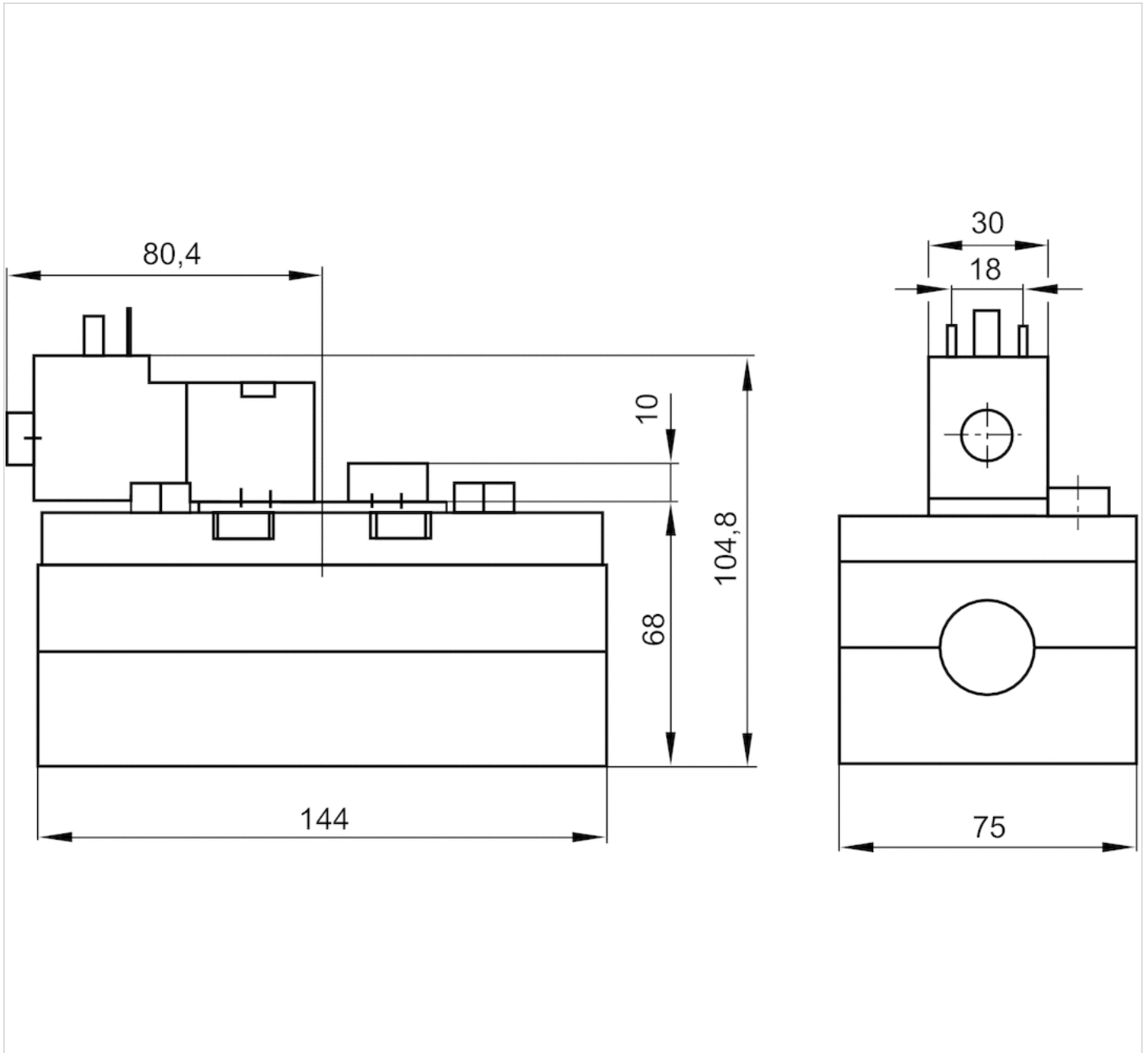
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 33 ms |
| Typ. switch-off time | 77 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,44 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5814170190 |  |  | 24 V | -10% / +10% |
| 5814171190 |  |  | 24 V | -10% / +10% |
| 5814172190 |  |  | 24 V | -10% / +10% |
| 5814173190 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5814170190 | 6 W | Internal | 3 ... 10 bar |
| 5814171190 | 6 W | Internal | 3 ... 10 bar |
| 5814172190 | 6 W | External | -0,95 ... 10 bar |
| 5814173190 | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5814170190 | Plug EN 175301-803, form A | - |
| 5814171190 | Plug EN 175301-803, form A | with throttle |
| 5814172190 | Plug EN 175301-803, form A | - |
| 5814173190 | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

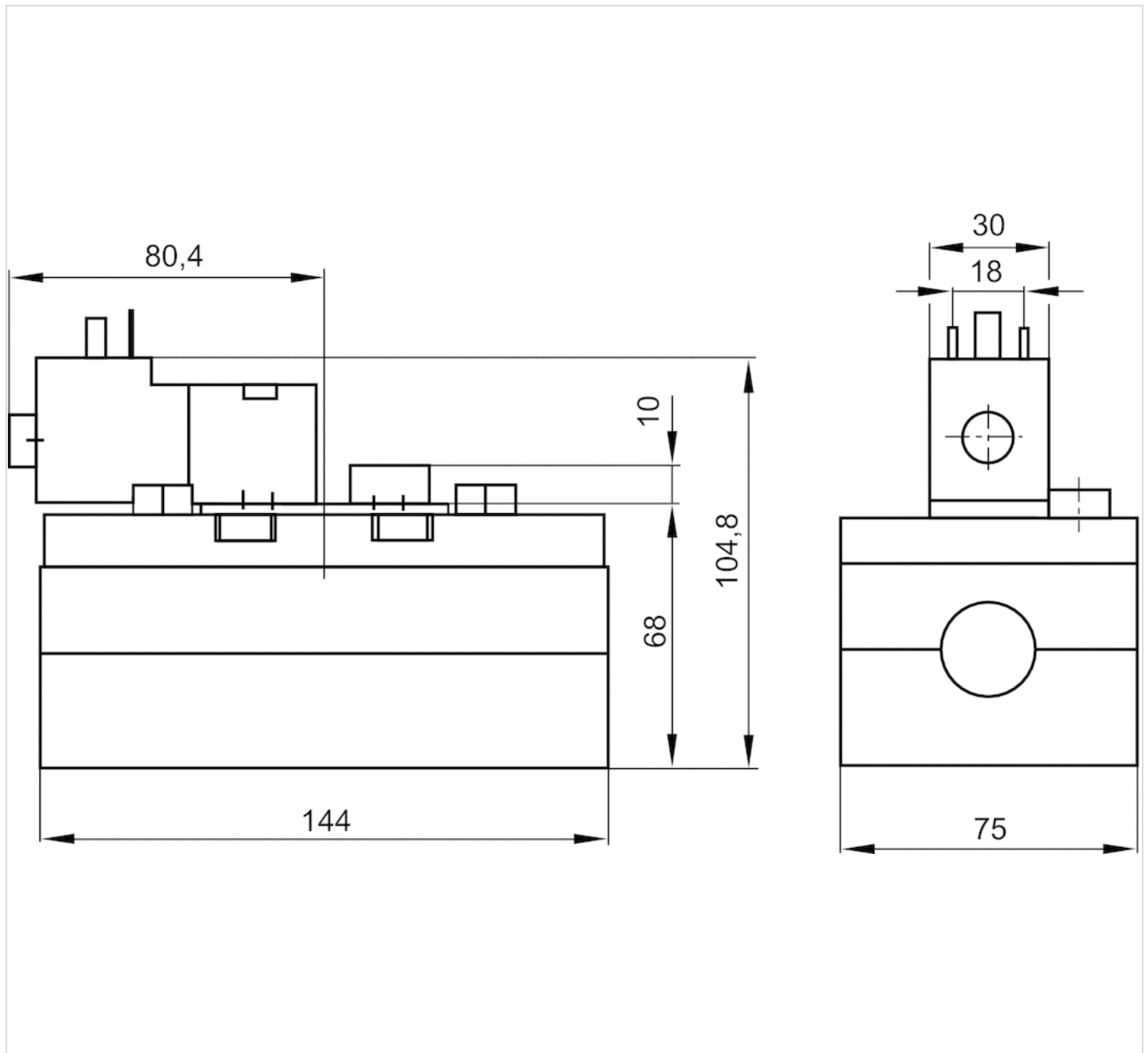
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions





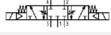
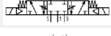
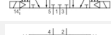
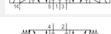
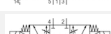
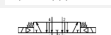


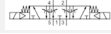

5/3-directional valve, Series 581, size 4

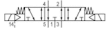


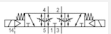

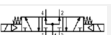
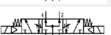

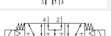
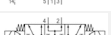
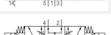
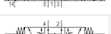
- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 26 ms |
| Typ. switch-off time | 68 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,57 kg |

Technical data

| Part No. | | | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|------------------|------------------------|------------------------------|
| 5814490530 |  | closed center | 24 V | - |
| 5814490430 |  | closed center | - | 230 V |
| 5814491530 |  | closed center | 24 V | - |
| 5814491430 |  | closed center | - | 230 V |
| 5814492530 |  | closed center | 24 V | - |
| 5814492430 |  | closed center | - | 230 V |
| 5814493530 |  | closed center | 24 V | - |
| 5814493430 |  | closed center | - | 230 V |
| 5814590530 |  | exhausted center | 24 V | - |
| 5814590430 |  | exhausted center | - | 230 V |
| 5814591530 |  | exhausted center | 24 V | - |
| 5814591430 |  | exhausted center | - | 230 V |

| Part No. | | | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|--------------------|------------------------|------------------------------|
| 5814592530 |  | exhausted center | 24 V | - |
| 5814592430 |  | exhausted center | - | 230 V |
| 5814593530 |  | exhausted center | 24 V | - |
| 5814593430 |  | exhausted center | - | 230 V |
| 5814790530 |  | pressurized center | 24 V | - |
| 5814790430 |  | pressurized center | - | 230 V |
| 5814791530 |  | pressurized center | 24 V | - |
| 5814791430 |  | pressurized center | - | 230 V |
| 5814792530 |  | pressurized center | 24 V | - |
| 5814792430 |  | pressurized center | - | 230 V |
| 5814793530 |  | pressurized center | 24 V | - |
| 5814793430 |  | pressurized center | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5814490530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814490430 | - | -10% / +10% | - | 10,8 VA |
| 5814491530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814491430 | - | -10% / +10% | - | 10,8 VA |
| 5814492530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814492430 | - | -10% / +10% | - | 10,8 VA |
| 5814493530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814493430 | - | -10% / +10% | - | 10,8 VA |
| 5814590530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814590430 | - | -10% / +10% | - | 10,8 VA |
| 5814591530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814591430 | - | -10% / +10% | - | 10,8 VA |
| 5814592530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814592430 | - | -10% / +10% | - | 10,8 VA |
| 5814593530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814593430 | - | -10% / +10% | - | 10,8 VA |
| 5814790530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814790430 | - | -10% / +10% | - | 10,8 VA |
| 5814791530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814791430 | - | -10% / +10% | - | 10,8 VA |
| 5814792530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814792430 | - | -10% / +10% | - | 10,8 VA |
| 5814793530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5814793430 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5814490530 | - | Internal | 3 ... 16 bar |
| 5814490430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814491530 | - | Internal | 3 ... 16 bar |
| 5814491430 | 15,2 VA | Internal | 3 ... 16 bar |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|-----------------------------|----------|----------------------------|
| 5814492530 | - | External | -0,95 ... 16 bar |
| 5814492430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814493530 | - | External | -0,95 ... 16 bar |
| 5814493430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814590530 | - | Internal | 3 ... 16 bar |
| 5814590430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814591530 | - | Internal | 3 ... 16 bar |
| 5814591430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814592530 | - | External | -0,95 ... 16 bar |
| 5814592430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814593530 | - | External | -0,95 ... 16 bar |
| 5814593430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814790530 | - | Internal | 3 ... 16 bar |
| 5814790430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814791530 | - | Internal | 3 ... 16 bar |
| 5814791430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5814792530 | - | External | -0,95 ... 16 bar |
| 5814792430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5814793530 | - | External | -0,95 ... 16 bar |
| 5814793430 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5814490530 | Plug EN 175301-803, form A | - |
| 5814490430 | Plug EN 175301-803, form A | - |
| 5814491530 | Plug EN 175301-803, form A | with throttle |
| 5814491430 | Plug EN 175301-803, form A | with throttle |
| 5814492530 | Plug EN 175301-803, form A | - |
| 5814492430 | Plug EN 175301-803, form A | - |
| 5814493530 | Plug EN 175301-803, form A | with throttle |
| 5814493430 | Plug EN 175301-803, form A | with throttle |
| 5814590530 | Plug EN 175301-803, form A | - |
| 5814590430 | Plug EN 175301-803, form A | - |
| 5814591530 | Plug EN 175301-803, form A | with throttle |
| 5814591430 | Plug EN 175301-803, form A | with throttle |
| 5814592530 | Plug EN 175301-803, form A | - |
| 5814592430 | Plug EN 175301-803, form A | - |
| 5814593530 | Plug EN 175301-803, form A | with throttle |
| 5814593430 | Plug EN 175301-803, form A | with throttle |
| 5814790530 | Plug EN 175301-803, form A | - |
| 5814790430 | Plug EN 175301-803, form A | - |
| 5814791530 | Plug EN 175301-803, form A | with throttle |
| 5814791430 | Plug EN 175301-803, form A | with throttle |
| 5814792530 | Plug EN 175301-803, form A | - |
| 5814792430 | Plug EN 175301-803, form A | - |
| 5814793530 | Plug EN 175301-803, form A | with throttle |
| 5814793430 | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

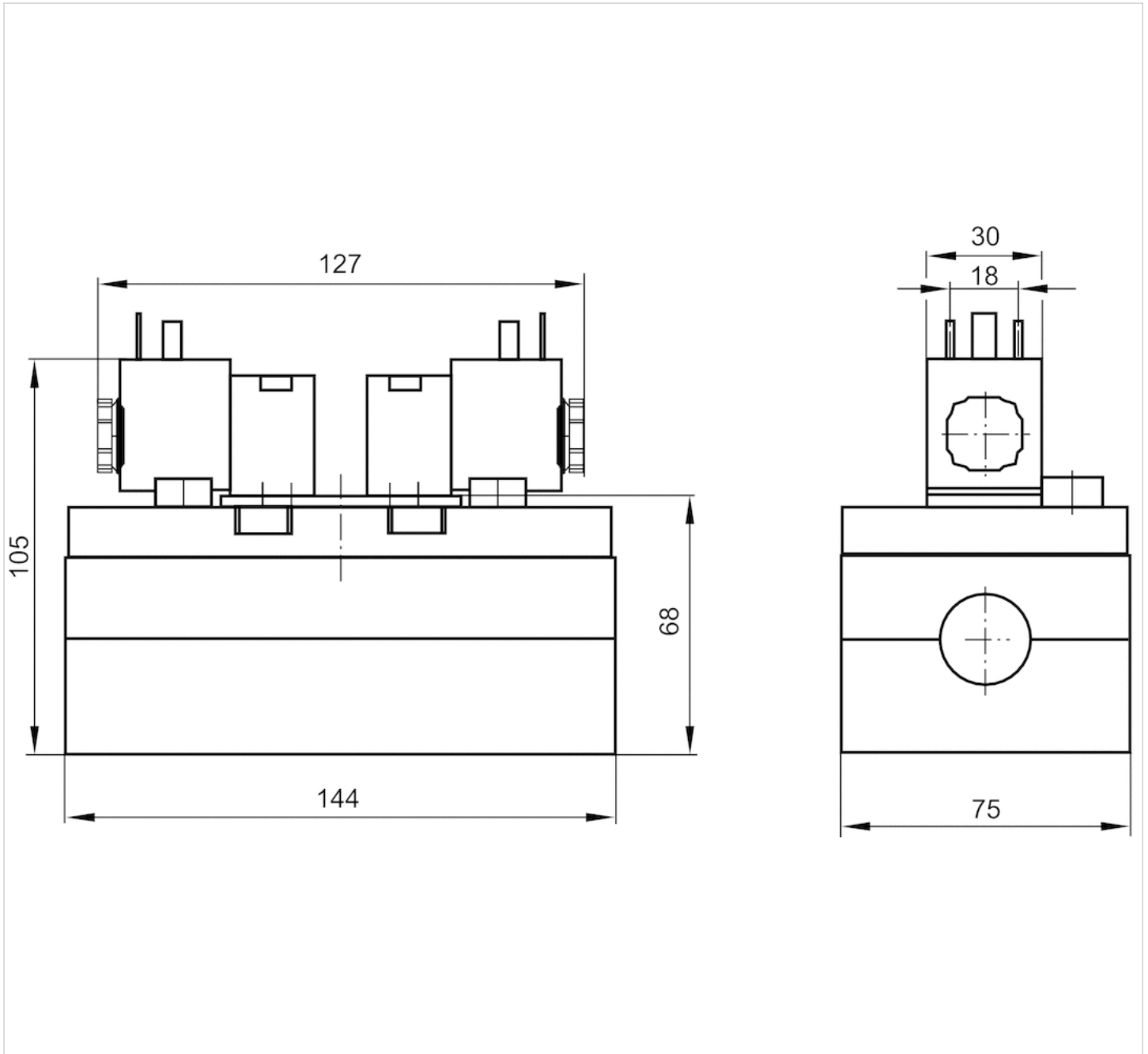
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



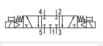

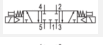



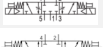

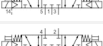





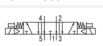









5/3-directional valve, Series 581, size 4

















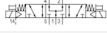

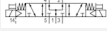

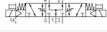

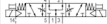

- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 26 ms |
| Typ. switch-off time | 68 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,57 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|------------------|------------------------|
| 5814490540 |  |  | closed center | 24 V |
| 5814490440 |  |  | closed center | - |
| 5814491540 |  |  | closed center | 24 V |
| 5814491440 |  |  | closed center | - |
| 5814492540 |  |  | closed center | 24 V |
| 5814492440 |  |  | closed center | - |
| 5814493540 |  |  | closed center | 24 V |
| 5814493440 |  |  | closed center | - |
| 5814590540 |  |  | exhausted center | 24 V |
| 5814590440 |  |  | exhausted center | - |
| 5814591540 |  |  | exhausted center | 24 V |
| 5814591440 |  |  | exhausted center | - |

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5814592540 |  |  | exhausted center | 24 V |
| 5814592440 |  |  | exhausted center | - |
| 5814593540 |  |  | exhausted center | 24 V |
| 5814593440 |  |  | exhausted center | - |
| 5814790540 |  |  | pressurized center | 24 V |
| 5814790440 |  |  | pressurized center | - |
| 5814791540 |  |  | pressurized center | 24 V |
| 5814791440 |  |  | pressurized center | - |
| 5814792540 |  |  | pressurized center | 24 V |
| 5814792440 |  |  | pressurized center | - |
| 5814793540 |  |  | pressurized center | 24 V |
| 5814793440 |  |  | pressurized center | - |

| Part No. | Operational voltage AC 50 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz |
|------------|------------------------------|----------------------|----------------------------|
| 5814490540 | 42 V | -10% / +10% | -10% / +10% |
| 5814490440 | 230 V | - | -10% / +10% |
| 5814491540 | 42 V | -10% / +10% | -10% / +10% |
| 5814491440 | 230 V | - | -10% / +10% |
| 5814492540 | 42 V | -10% / +10% | -10% / +10% |
| 5814492440 | 230 V | - | -10% / +10% |
| 5814493540 | 42 V | -10% / +10% | -10% / +10% |
| 5814493440 | 230 V | - | -10% / +10% |
| 5814590540 | 42 V | -10% / +10% | -10% / +10% |
| 5814590440 | 230 V | - | -10% / +10% |
| 5814591540 | 42 V | -10% / +10% | -10% / +10% |
| 5814591440 | 230 V | - | -10% / +10% |
| 5814592540 | 42 V | -10% / +10% | -10% / +10% |
| 5814592440 | 230 V | - | -10% / +10% |
| 5814593540 | 42 V | -10% / +10% | -10% / +10% |
| 5814593440 | 230 V | - | -10% / +10% |
| 5814790540 | 42 V | -10% / +10% | -10% / +10% |
| 5814790440 | 230 V | - | -10% / +10% |
| 5814791540 | 42 V | -10% / +10% | -10% / +10% |
| 5814791440 | 230 V | - | -10% / +10% |
| 5814792540 | 42 V | -10% / +10% | -10% / +10% |
| 5814792440 | 230 V | - | -10% / +10% |
| 5814793540 | 42 V | -10% / +10% | -10% / +10% |
| 5814793440 | 230 V | - | -10% / +10% |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz | Pilot |
|------------|----------------------|------------------------|--------------------------|----------|
| 5814490540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5814490440 | - | 10,8 VA | 15,2 VA | Internal |
| 5814491540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5814491440 | - | 10,8 VA | 15,2 VA | Internal |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz | Pilot |
|------------|-------------------------|---------------------------|-----------------------------|----------|
| 5814492540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5814492440 | - | 10,8 VA | 15,2 VA | External |
| 5814493540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5814493440 | - | 10,8 VA | 15,2 VA | External |
| 5814590540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5814590440 | - | 10,8 VA | 15,2 VA | Internal |
| 5814591540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5814591440 | - | 10,8 VA | 15,2 VA | Internal |
| 5814592540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5814592440 | - | 10,8 VA | 15,2 VA | External |
| 5814593540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5814593440 | - | 10,8 VA | 15,2 VA | External |
| 5814790540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5814790440 | - | 10,8 VA | 15,2 VA | Internal |
| 5814791540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5814791440 | - | 10,8 VA | 15,2 VA | Internal |
| 5814792540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5814792440 | - | 10,8 VA | 15,2 VA | External |
| 5814793540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5814793440 | - | 10,8 VA | 15,2 VA | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------------------------|--------------------------------------|---------------|
| 5814490540 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814490440 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814491540 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814491440 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814492540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814492440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814493540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814493440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814590540 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814590440 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814591540 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814591440 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814592540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814592440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814593540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814593440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814790540 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814790440 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814791540 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814791440 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814792540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814792440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5814793540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5814793440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |

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

Technical information

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

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

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

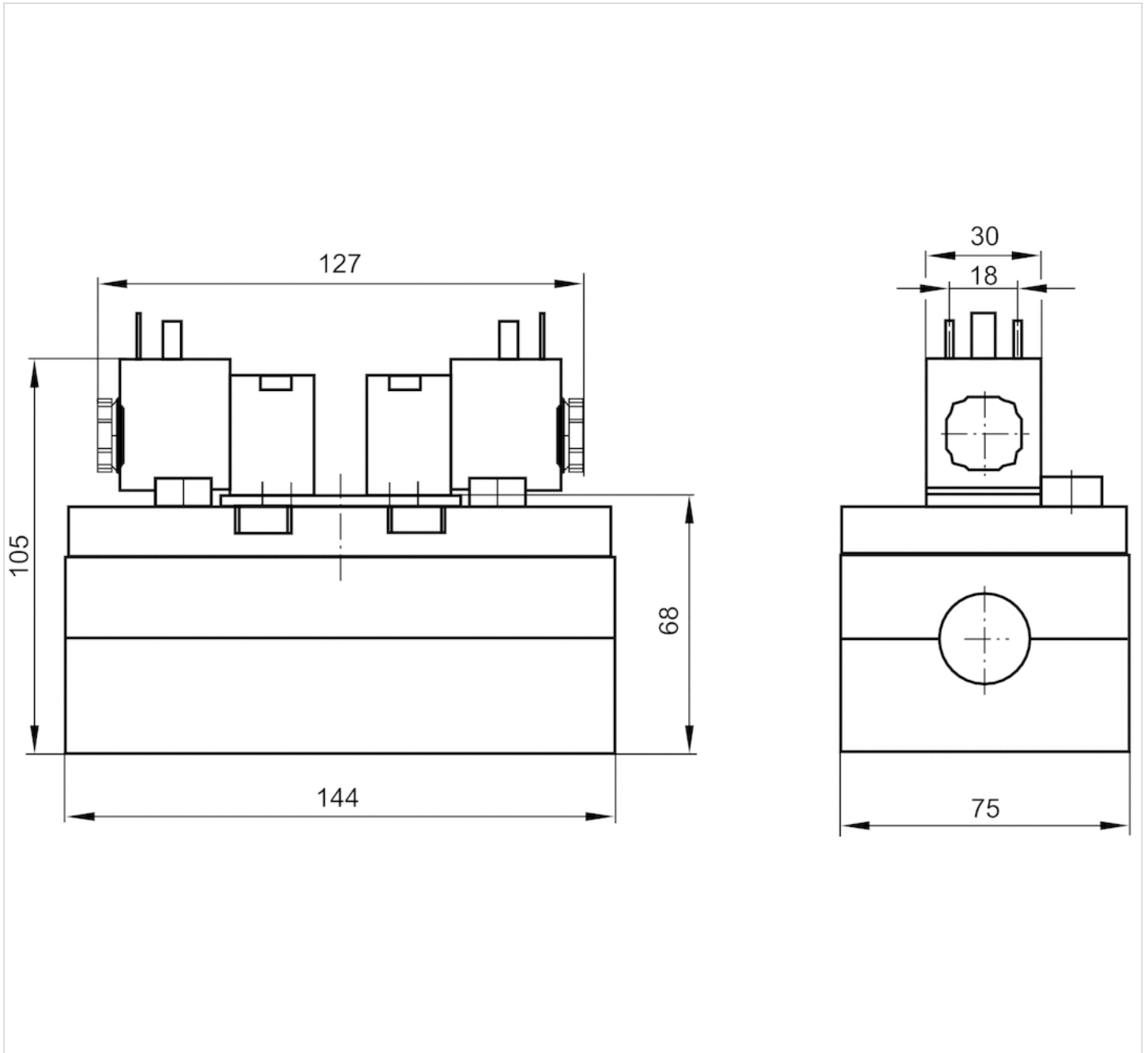
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override with detent, without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 26 ms |
| Typ. switch-off time | 68 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,57 kg |

| Part No. | Operational voltage AC 50 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|
| 5814790650 | - | -10% / +10% | - |
| 5814790450 | 230 V | - | -10% / +10% |
| 5814791650 | - | -10% / +10% | - |
| 5814791450 | 230 V | - | -10% / +10% |
| 5814792650 | - | -10% / +10% | - |
| 5814792450 | 230 V | - | -10% / +10% |
| 5814793650 | - | -10% / +10% | - |
| 5814793450 | 230 V | - | -10% / +10% |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz | Pilot |
|------------|-------------------------|---------------------------|-----------------------------|----------|
| 5814490650 | 2 W | - | - | Internal |
| 5814490450 | - | 4,8 VA | 7 VA | Internal |
| 5814491650 | 2 W | - | - | Internal |
| 5814491450 | - | 4,8 VA | 7 VA | Internal |
| 5814492650 | 2 W | - | - | External |
| 5814492450 | - | 4,8 VA | 7 VA | External |
| 5814493650 | 2 W | - | - | External |
| 5814493450 | - | 4,8 VA | 7 VA | External |
| 5814590650 | 2 W | - | - | Internal |
| 5814590450 | - | 4,8 VA | 7 VA | Internal |
| 5814591650 | 2 W | - | - | Internal |
| 5814591450 | - | 4,8 VA | 7 VA | Internal |
| 5814592650 | 2 W | - | - | External |
| 5814592450 | - | 4,8 VA | 7 VA | External |
| 5814593650 | 2 W | - | - | External |
| 5814593450 | - | 4,8 VA | 7 VA | External |
| 5814790650 | 2 W | - | - | Internal |
| 5814790450 | - | 4,8 VA | 7 VA | Internal |
| 5814791650 | 2 W | - | - | Internal |
| 5814791450 | - | 4,8 VA | 7 VA | Internal |
| 5814792650 | 2 W | - | - | External |
| 5814792450 | - | 4,8 VA | 7 VA | External |
| 5814793650 | 2 W | - | - | External |
| 5814793450 | - | 4,8 VA | 7 VA | External |

| Part No. | Working pressure min./max. | Compatibility index | Electrical connection Pilot valve |
|------------|----------------------------|---------------------|--------------------------------------|
| 5814490650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814490450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814491650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814491450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814492650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814492450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814493650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814493450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |

| Part No. | Working pressure min./max. | Compatibility index | Electrical connection Pilot valve |
|------------|----------------------------|---------------------|--------------------------------------|
| 5814590650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814590450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814591650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814591450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814592650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814592450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814593650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814593450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814790650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814790450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814791650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814791450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814792650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814792450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814793650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5814793450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |

| Part No. | Throttle |
|------------|---------------|
| 5814490650 | - |
| 5814490450 | - |
| 5814491650 | with throttle |
| 5814491450 | with throttle |
| 5814492650 | - |
| 5814492450 | - |
| 5814493650 | with throttle |
| 5814493450 | with throttle |
| 5814590650 | - |
| 5814590450 | - |
| 5814591650 | with throttle |
| 5814591450 | with throttle |
| 5814592650 | - |
| 5814592450 | - |
| 5814593650 | with throttle |
| 5814593450 | with throttle |
| 5814790650 | - |
| 5814790450 | - |
| 5814791650 | with throttle |
| 5814791450 | with throttle |
| 5814792650 | - |
| 5814792450 | - |
| 5814793650 | with throttle |
| 5814793450 | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar, MO = Manual override, An operating pressure of up to 16 bar is possible in the version with manual override without detent.

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.

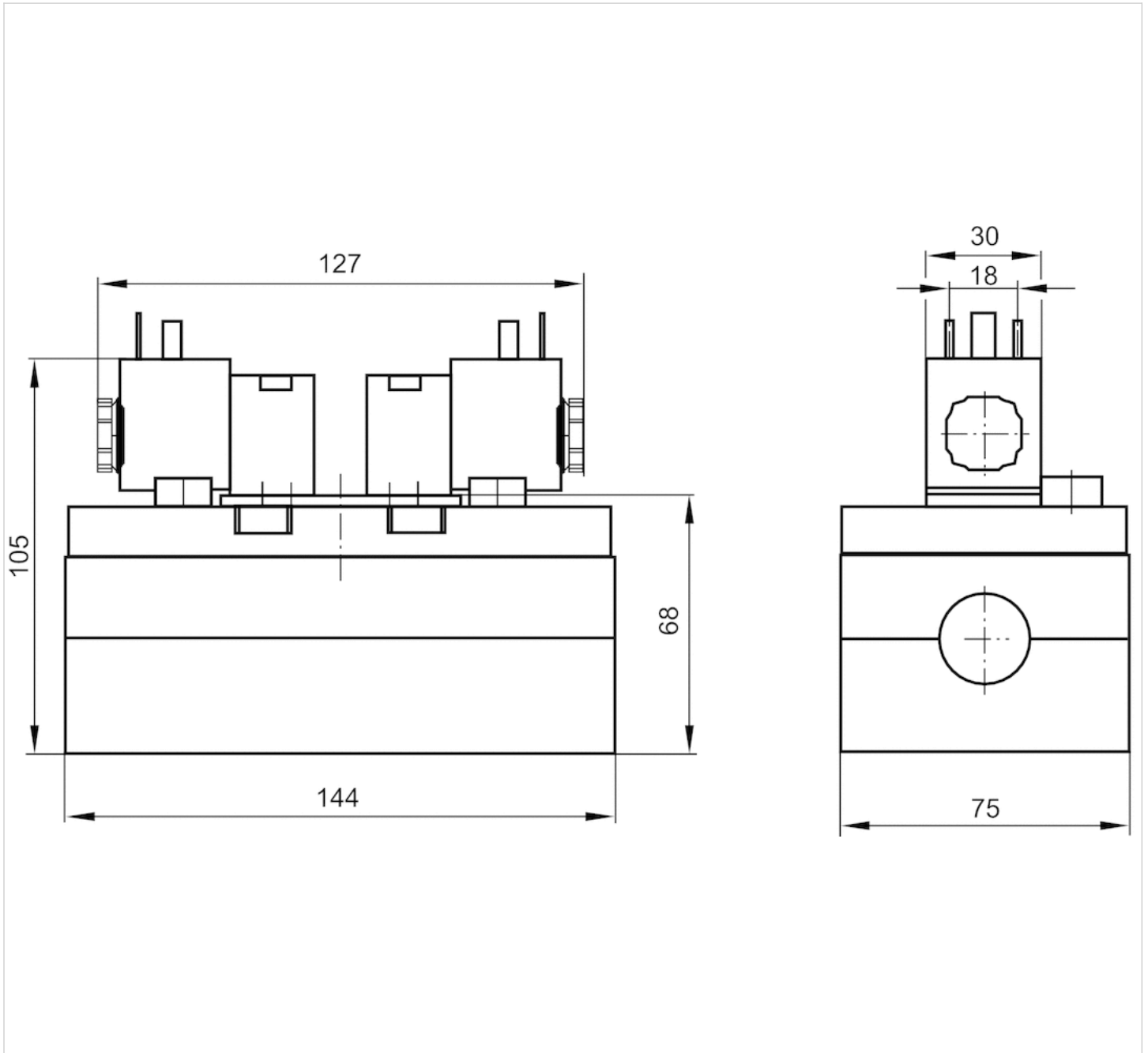
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



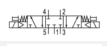



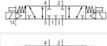



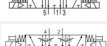

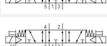

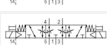

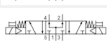



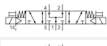



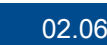

5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center exhausted center pressurized center
- Qn = 5000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 26 ms |
| Typ. switch-off time | 68 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,65 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5814490190 |  |  | closed center | 24 V |
| 5814491190 |  |  | closed center | 24 V |
| 5814492190 |  |  | closed center | 24 V |
| 5814493190 |  |  | closed center | 24 V |
| 5814590190 |  |  | exhausted center | 24 V |
| 5814591190 |  |  | exhausted center | 24 V |
| 5814592190 |  |  | exhausted center | 24 V |
| 5814593190 |  |  | exhausted center | 24 V |
| 5814790190 |  |  | pressurized center | 24 V |
| 5814791190 |  |  | pressurized center | 24 V |
| 5814792190 |  |  | pressurized center | 24 V |
| 5814793190 |  |  | pressurized center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------------------|----------|----------------------------|
| 5814490190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5814491190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5814492190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5814493190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5814590190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5814591190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5814592190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5814593190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5814790190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5814791190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5814792190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5814793190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5814490190 | Plug EN 175301-803, form A | - |
| 5814491190 | Plug EN 175301-803, form A | with throttle |
| 5814492190 | Plug EN 175301-803, form A | - |
| 5814493190 | Plug EN 175301-803, form A | with throttle |
| 5814590190 | Plug EN 175301-803, form A | - |
| 5814591190 | Plug EN 175301-803, form A | with throttle |
| 5814592190 | Plug EN 175301-803, form A | - |
| 5814593190 | Plug EN 175301-803, form A | with throttle |
| 5814790190 | Plug EN 175301-803, form A | - |
| 5814791190 | Plug EN 175301-803, form A | with throttle |
| 5814792190 | Plug EN 175301-803, form A | - |
| 5814793190 | Plug EN 175301-803, form A | with throttle |

Nominal flow Q_n 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.

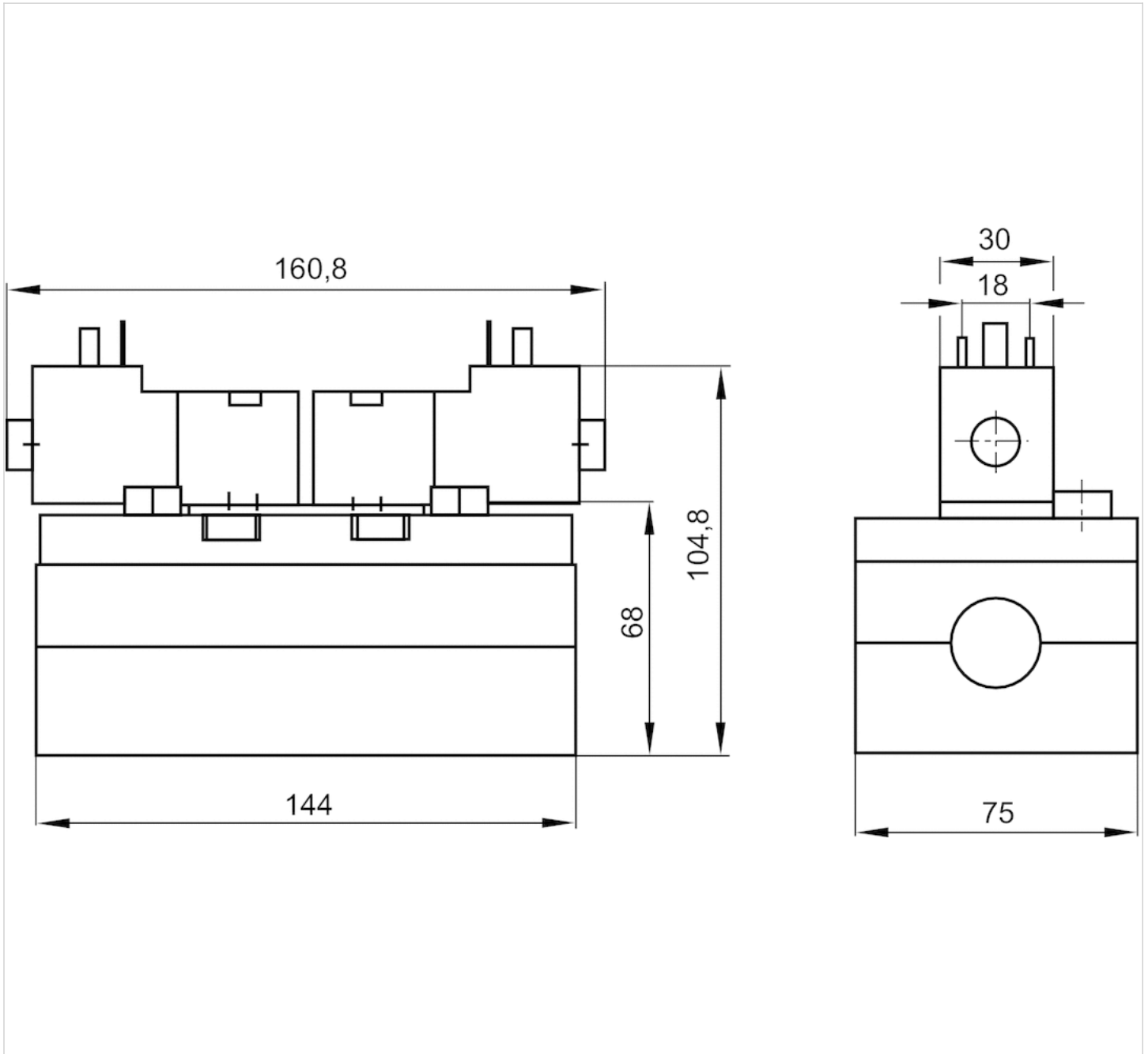
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



















5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0.95 ... 10 bar |
| Control 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 | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24.5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 20 ms |
| Typ. switch-off time | 80 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1.4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5814612720 |  |  | 24 V | -10% / +10% |
| 5814612710 |  |  | 24 V | -10% / +10% |
| 5814610720 |  |  | 24 V | -10% / +10% |
| 5814610710 |  |  | 24 V | -10% / +10% |
| 5814613720 |  |  | 24 V | -10% / +10% |
| 5814613710 |  |  | 24 V | -10% / +10% |
| 5814611720 |  |  | 24 V | -10% / +10% |
| 5814611710 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|-------------------------|----------|--------------------------------------|---------------|
| 5814612720 | 0.35 W | External | Plug M12 4-pin | - |
| 5814612710 | 0.35 W | External | Plug M12 4-pin | - |
| 5814610720 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5814610710 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5814613720 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5814613710 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5814611720 | 0.35 W | Internal | Plug M12 4-pin | with throttle |
| 5814611710 | 0.35 W | Internal | Plug M12 4-pin | with throttle |

Differential piston, signal 14 has priority, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

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

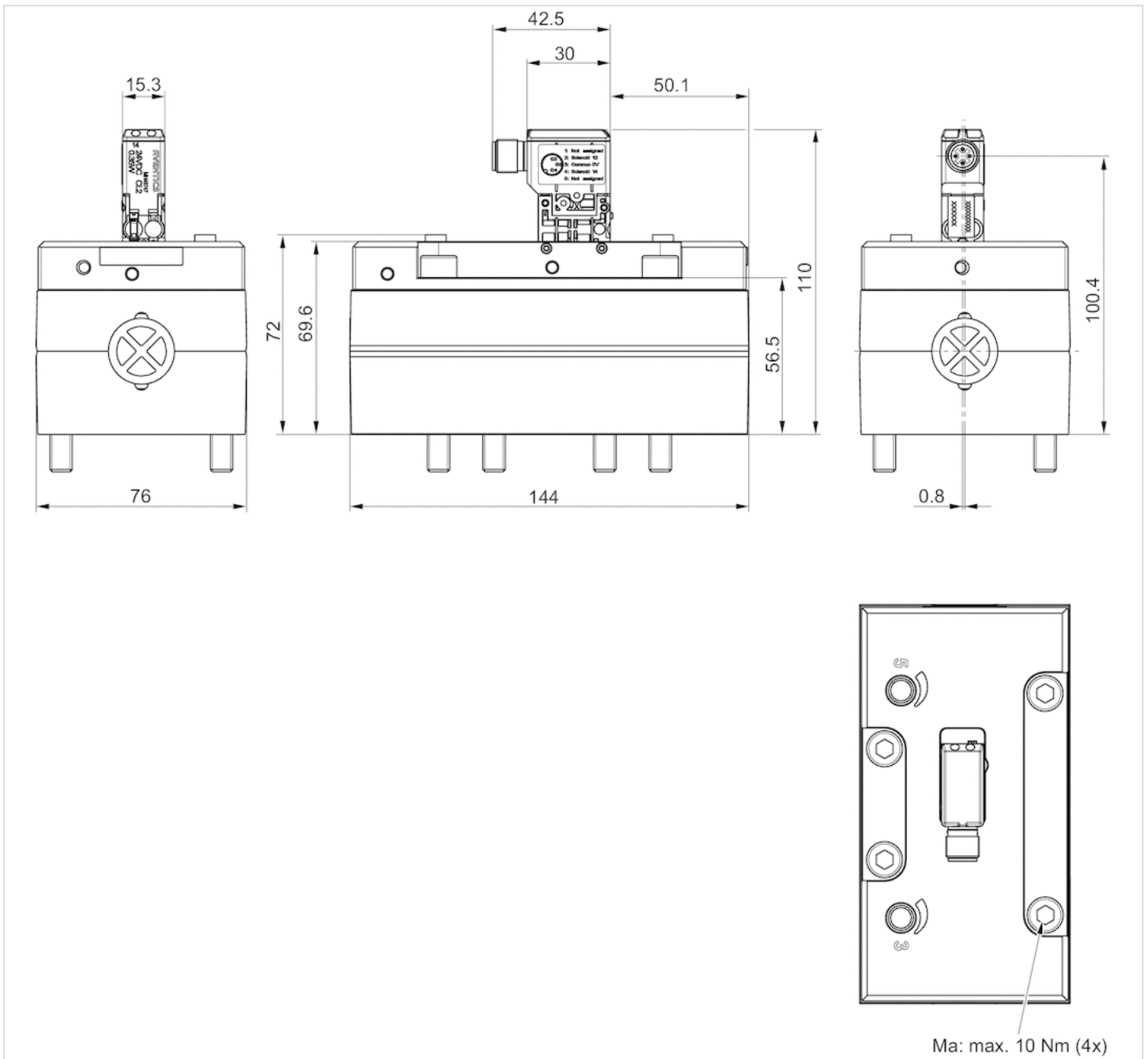
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

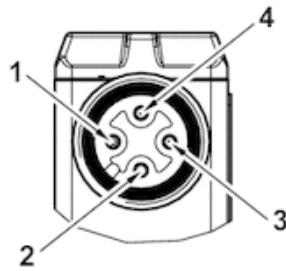
Dimensions

Dimensions



Pin assignments

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

















5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0.95 ... 10 bar |
| Control 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 | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24.5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 20 ms |
| Typ. switch-off time | 80 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1.4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5814112720 |  |  | 24 V | -10% / +10% |
| 5814112710 |  |  | 24 V | -10% / +10% |
| 5814110720 |  |  | 24 V | -10% / +10% |
| 5814110710 |  |  | 24 V | -10% / +10% |
| 5814113720 |  |  | 24 V | -10% / +10% |
| 5814113710 |  |  | 24 V | -10% / +10% |
| 5814111720 |  |  | 24 V | -10% / +10% |
| 5814111710 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|-------------------------|----------|--------------------------------------|---------------|
| 5814112720 | 0.35 W | External | Plug M12 4-pin | - |
| 5814112710 | 0.35 W | External | Plug M12 4-pin | - |
| 5814110720 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5814110710 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5814113720 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5814113710 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5814111720 | 0.35 W | Internal | Plug M12 4-pin | with throttle |
| 5814111710 | 0.35 W | Internal | Plug M12 4-pin | with throttle |

Connection 12 must be connected with atmospheres, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar, MO = Manual override

Technical information

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

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

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

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

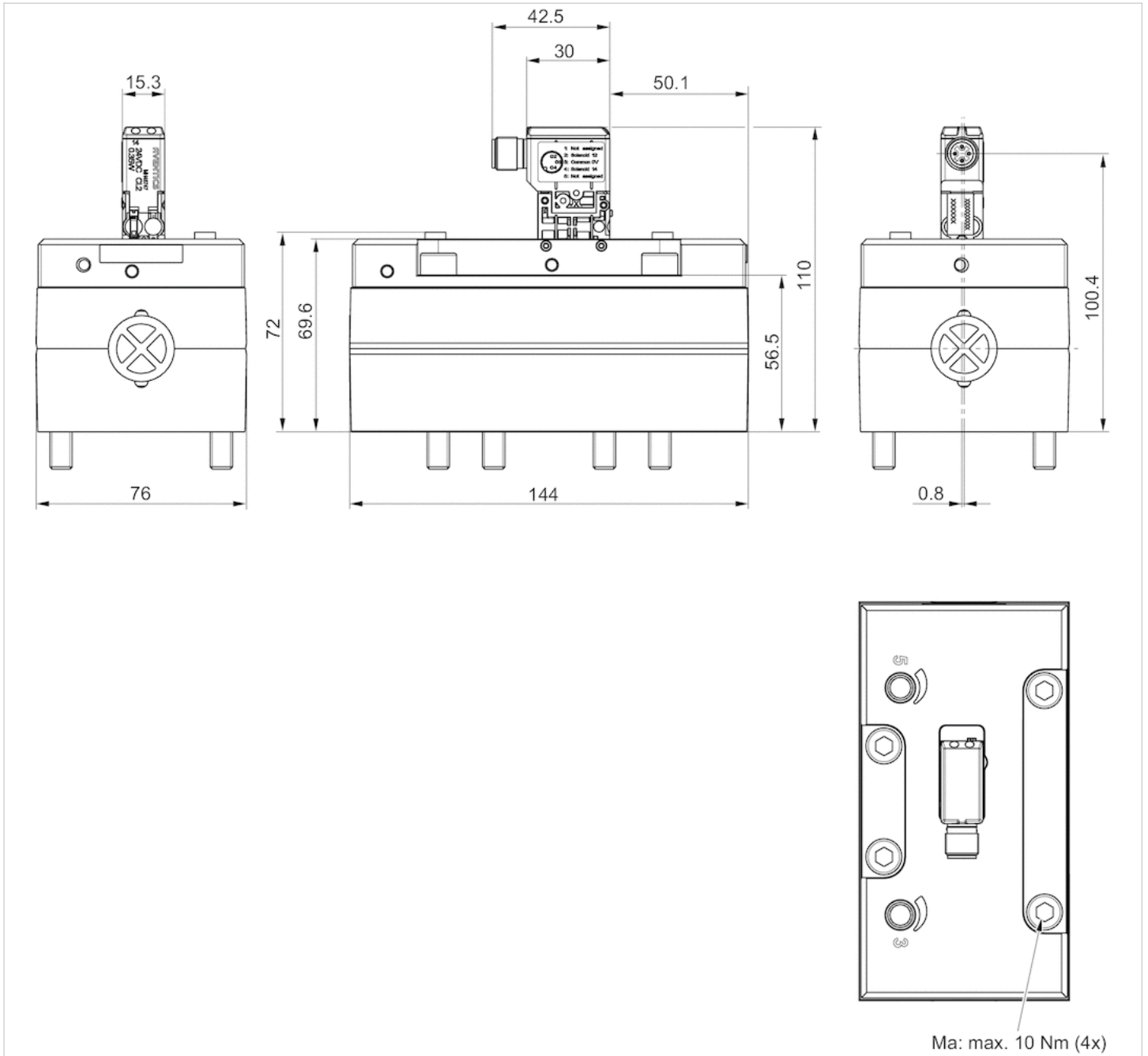
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

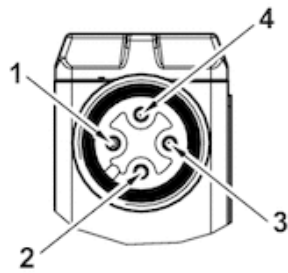
Dimensions

Dimensions



Pin assignments

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

















5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- double solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0.95 ... 10 bar |
| Control 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 | 5 μm |
| Oil content of compressed air | 0 ... 5 mg/m^3 |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24.5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 17 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1.4 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5814222720 |  |  | 24 V | -10% / +10% |
| 5814222710 |  |  | 24 V | -10% / +10% |
| 5814220720 |  |  | 24 V | -10% / +10% |
| 5814220710 |  |  | 24 V | -10% / +10% |
| 5814223720 |  |  | 24 V | -10% / +10% |
| 5814223710 |  |  | 24 V | -10% / +10% |
| 5814221720 |  |  | 24 V | -10% / +10% |
| 5814221710 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|----------------------|----------|-----------------------------------|----------|
| 5814222720 | 0.35 W | External | Plug M12 4-pin | - |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|-------------------------|----------|--------------------------------------|---------------|
| 5814222710 | 0.35 W | External | Plug M12 4-pin | - |
| 5814220720 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5814220710 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5814223720 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5814223710 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5814221720 | 0.35 W | Internal | Plug M12 4-pin | with throttle |
| 5814221710 | 0.35 W | Internal | Plug M12 4-pin | with throttle |

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

Technical information

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

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

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

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

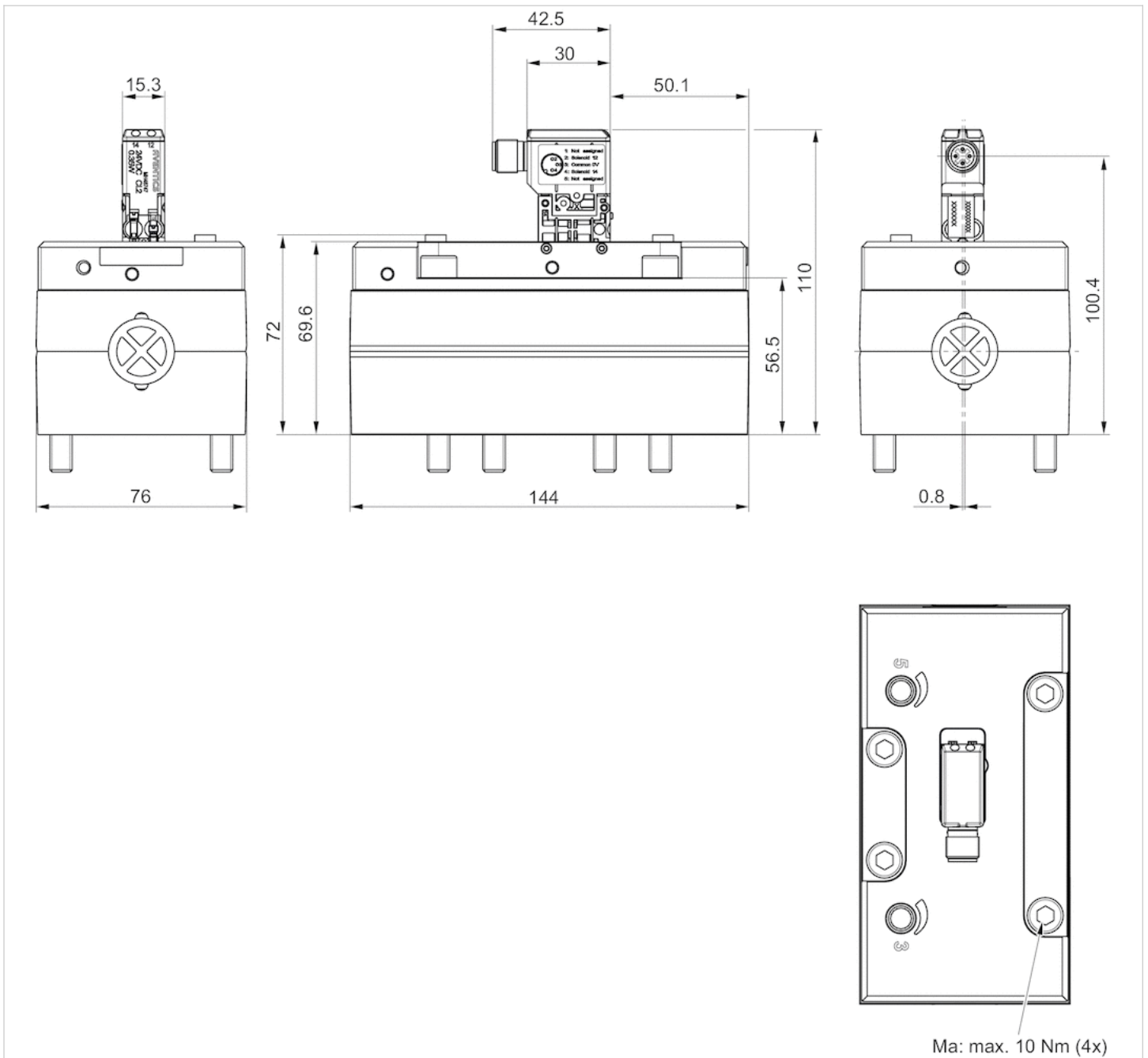
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

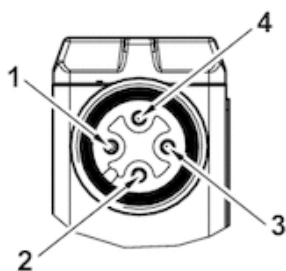
Dimensions

Dimensions



Pin assignments

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

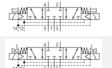







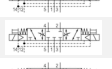







5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- closed center
- closed center
- $Q_n = 5000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0.95 ... 10 bar |
| Control 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 | 5 μm |
| Oil content of compressed air | 0 ... 5 mg/m^3 |
| Nominal flow Q_n | 5000 l/min |
| Flow conductance C | 15.5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 20 ms |
| Typ. switch-off time | 80 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | See table below |

Technical data

| Part No. | | MO | | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|---------------|------------------------|----------------------|
| 5814422720 |  |  | closed center | 24 V | -10% / +10% |
| 5814422710 |  |  | closed center | 24 V | -10% / +10% |
| 5814420720 |  |  | closed center | 24 V | -10% / +10% |
| 5814420710 |  |  | closed center | 24 V | -10% / +10% |
| 5814423710 |  |  | closed center | 24 V | -10% / +10% |
| 5814423720 |  |  | closed center | 24 V | -10% / +10% |
| 5814421720 |  |  | closed center | 24 V | -10% / +10% |
| 5814421710 |  |  | closed center | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle | Weight |
|------------|----------------------|----------|-----------------------------------|---------------|---------|
| 5814422720 | 0.35 W | External | Plug M12 4-pin | - | 1.4 kg |
| 5814422710 | 0.35 W | External | Plug M12 4-pin | - | 1.44 kg |
| 5814420720 | 0.35 W | Internal | Plug M12 4-pin | - | 1.44 kg |
| 5814420710 | 0.35 W | Internal | Plug M12 4-pin | - | 1.44 kg |
| 5814423710 | 0.35 W | External | Plug M12 4-pin | with throttle | 1.44 kg |
| 5814423720 | 0.35 W | External | Plug M12 4-pin | with throttle | 1.44 kg |
| 5814421720 | 0.35 W | Internal | Plug M12 4-pin | with throttle | 1.44 kg |
| 5814421710 | 0.35 W | Internal | Plug M12 4-pin | with throttle | 1.44 kg |

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

Technical information

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

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

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

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

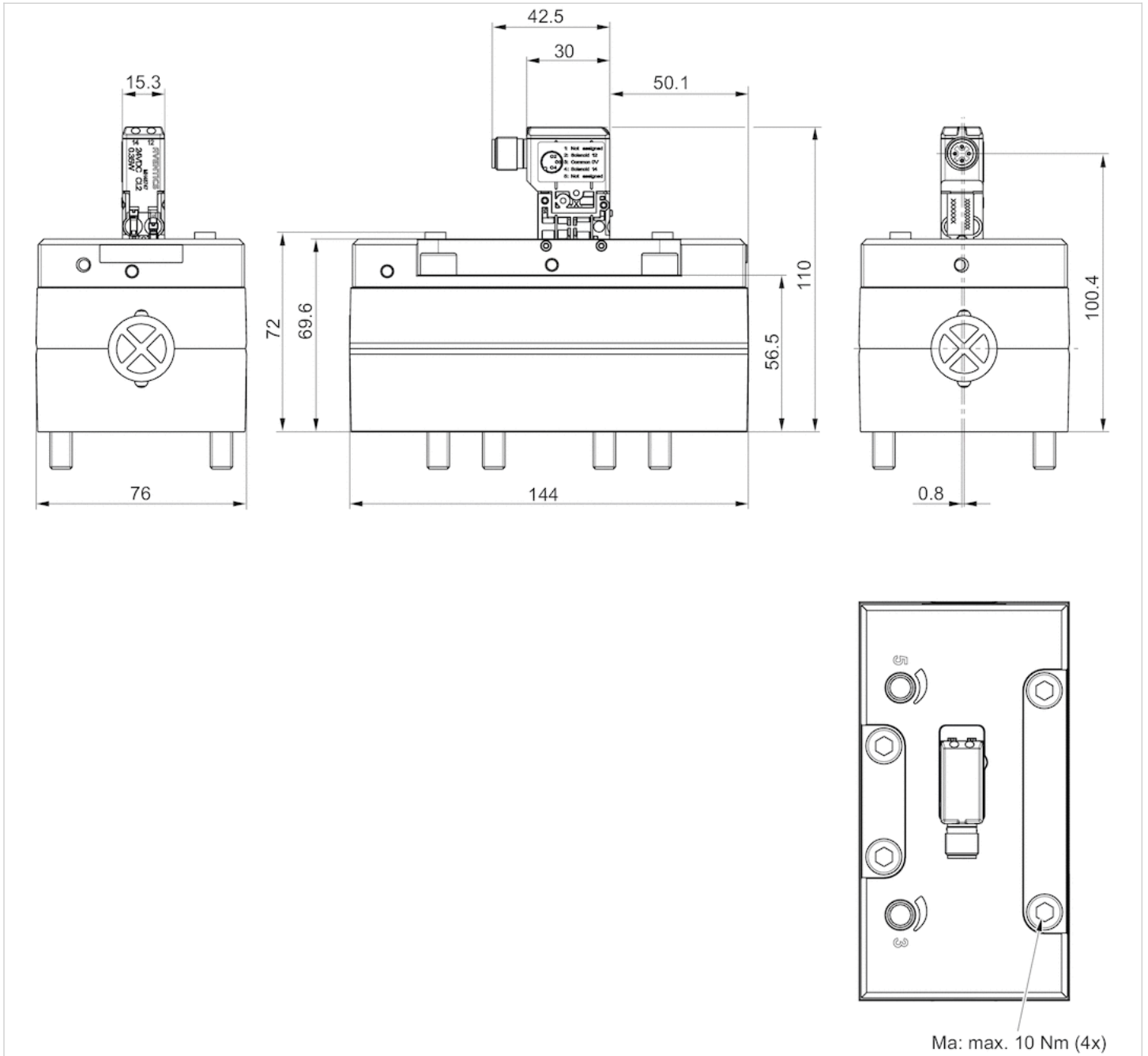
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

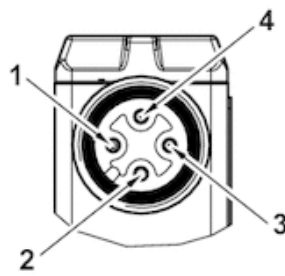
Dimensions

Dimensions



Pin assignments

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

















5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- exhausted center
- exhausted center
- $Q_n = 5000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0.95 ... 10 bar |
| Control 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 | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 5000 l/min |
| Flow conductance C | 15.5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 20 ms |
| Typ. switch-off time | 80 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | See table below |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|------------------|------------------------|
| 5814522720 |  |  | exhausted center | 24 V |
| 5814522710 |  |  | exhausted center | 24 V |
| 5814520720 |  |  | exhausted center | 24 V |
| 5814520710 |  |  | exhausted center | 24 V |
| 5814523720 |  |  | exhausted center | 24 V |
| 5814523710 |  |  | exhausted center | 24 V |
| 5814521720 |  |  | exhausted center | 24 V |
| 5814521710 |  |  | exhausted center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|----------------------|----------------------|----------|-----------------------------------|
| 5814522720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814522710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814520720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5814520710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5814523720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814523710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814521720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5814521710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |

| Part No. | Throttle | Weight |
|------------|---------------|---------|
| 5814522720 | - | 1.4 kg |
| 5814522710 | - | 1.44 kg |
| 5814520720 | - | 1.44 kg |
| 5814520710 | - | 1.44 kg |
| 5814523720 | with throttle | 1.44 kg |
| 5814523710 | with throttle | 1.44 kg |
| 5814521720 | with throttle | 1.44 kg |
| 5814521710 | with throttle | 1.44 kg |

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

Technical information

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

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

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

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

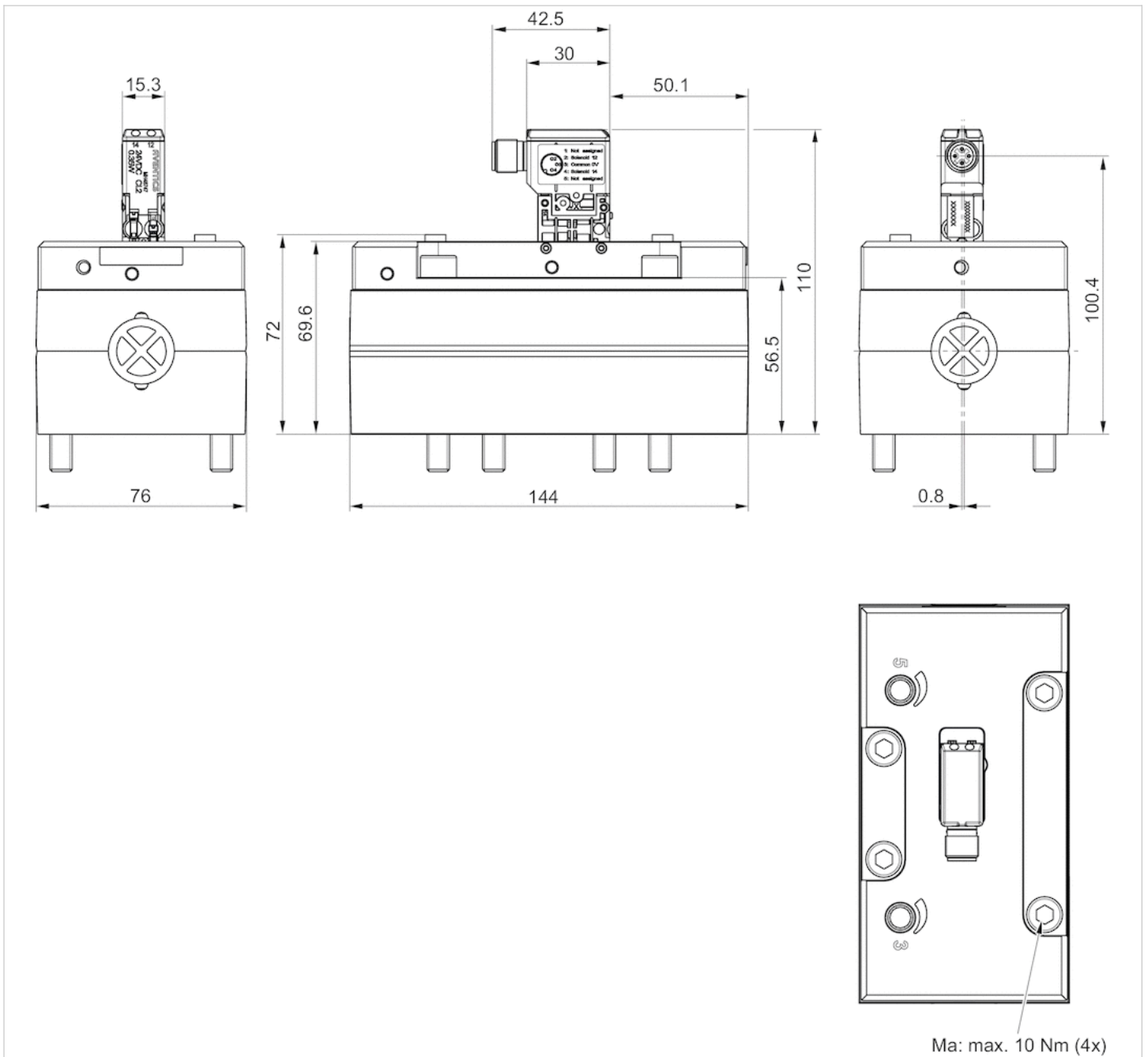
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

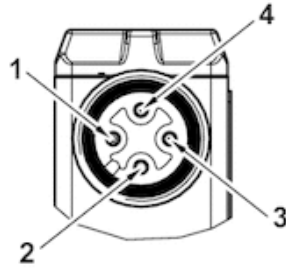
Dimensions

Dimensions



Pin assignments

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14

















5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- pressurized center
- Qn = 5000 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0.95 ... 10 bar |
| Control 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 | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Qn | 5000 l/min |
| Flow conductance C | 15.5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 20 ms |
| Typ. switch-off time | 80 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1.4 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5814722720 |  |  | pressurized center | 24 V |
| 5814722710 |  |  | pressurized center | 24 V |
| 5814720720 |  |  | pressurized center | 24 V |
| 5814720710 |  |  | pressurized center | 24 V |
| 5814723720 |  |  | pressurized center | 24 V |
| 5814723710 |  |  | pressurized center | 24 V |
| 5814721720 |  |  | pressurized center | 24 V |
| 5814721710 |  |  | pressurized center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|----------------------|----------------------|----------|-----------------------------------|
| 5814722720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|-------------------------|-------------------------|----------|--------------------------------------|
| 5814722710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814720720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5814720710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5814723720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814723710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5814721720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5814721710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |

| Part No. | Throttle |
|------------|---------------|
| 5814722720 | - |
| 5814722710 | - |
| 5814720720 | - |
| 5814720710 | - |
| 5814723720 | with throttle |
| 5814723710 | with throttle |
| 5814721720 | with throttle |
| 5814721710 | with throttle |

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

Technical information

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

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

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

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

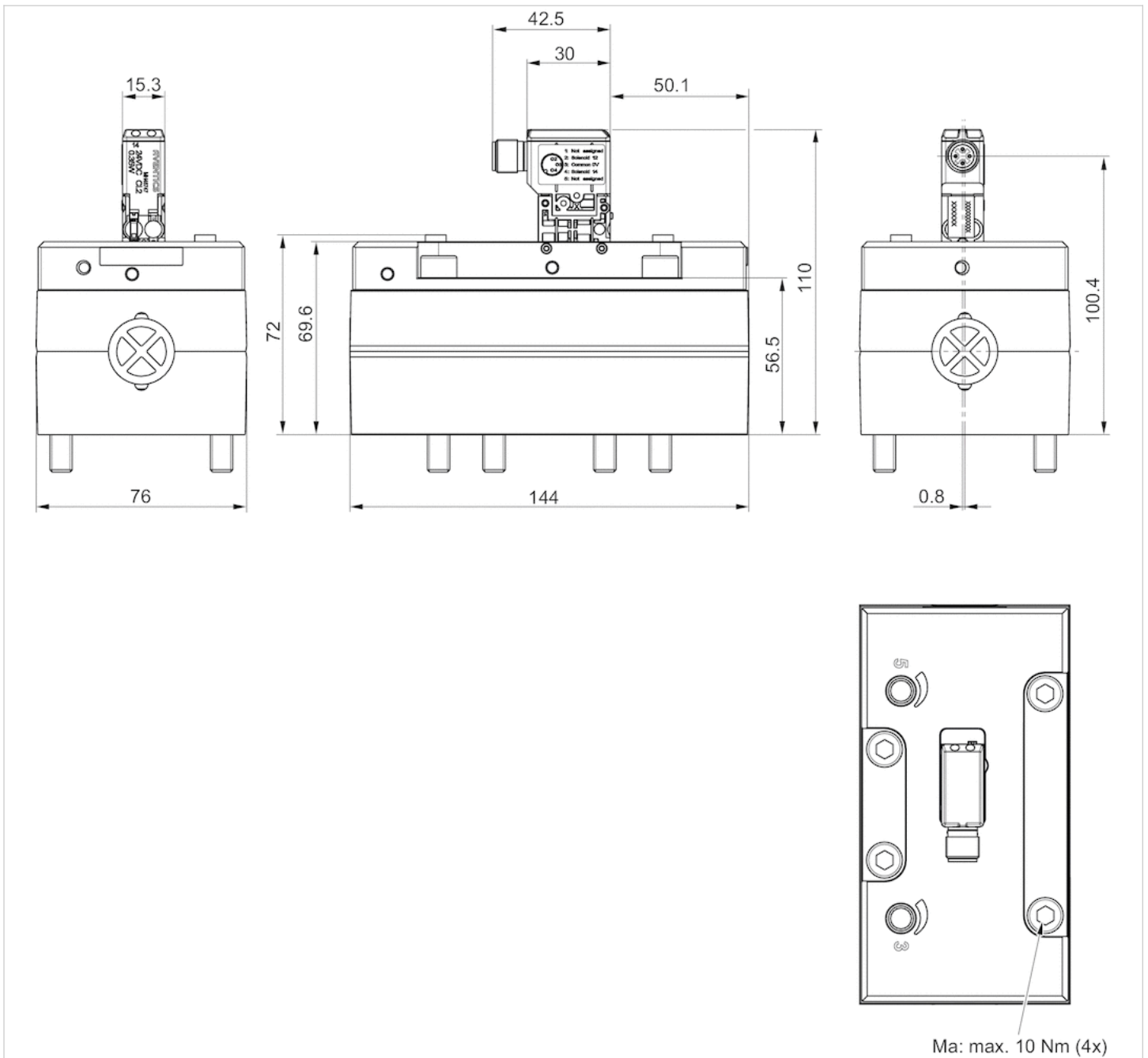
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

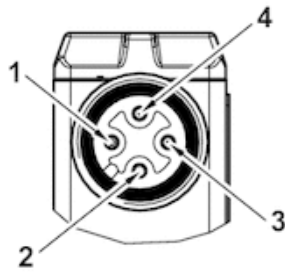
Dimensions

Dimensions



Pin assignments

Pin assignments



- 1) not assigned
- 2) Coil 12
- 3) 0 V DC
- 4) Coil 14


5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- Basic valve for CNOMO pilot valve
- With spring return
- single solenoid
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



| | |
|---------------------------------------|---------------------------------|
| Type | Spool valve |
| basic valve with electrical connector | Basic valve without pilot valve |
| Pilot | External Internal |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Throttle |
|------------|---|---------------|
| 5814180000 |  | - |
| 5814181000 |  | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min./max is the same as the control pressure min./max.

Technical information

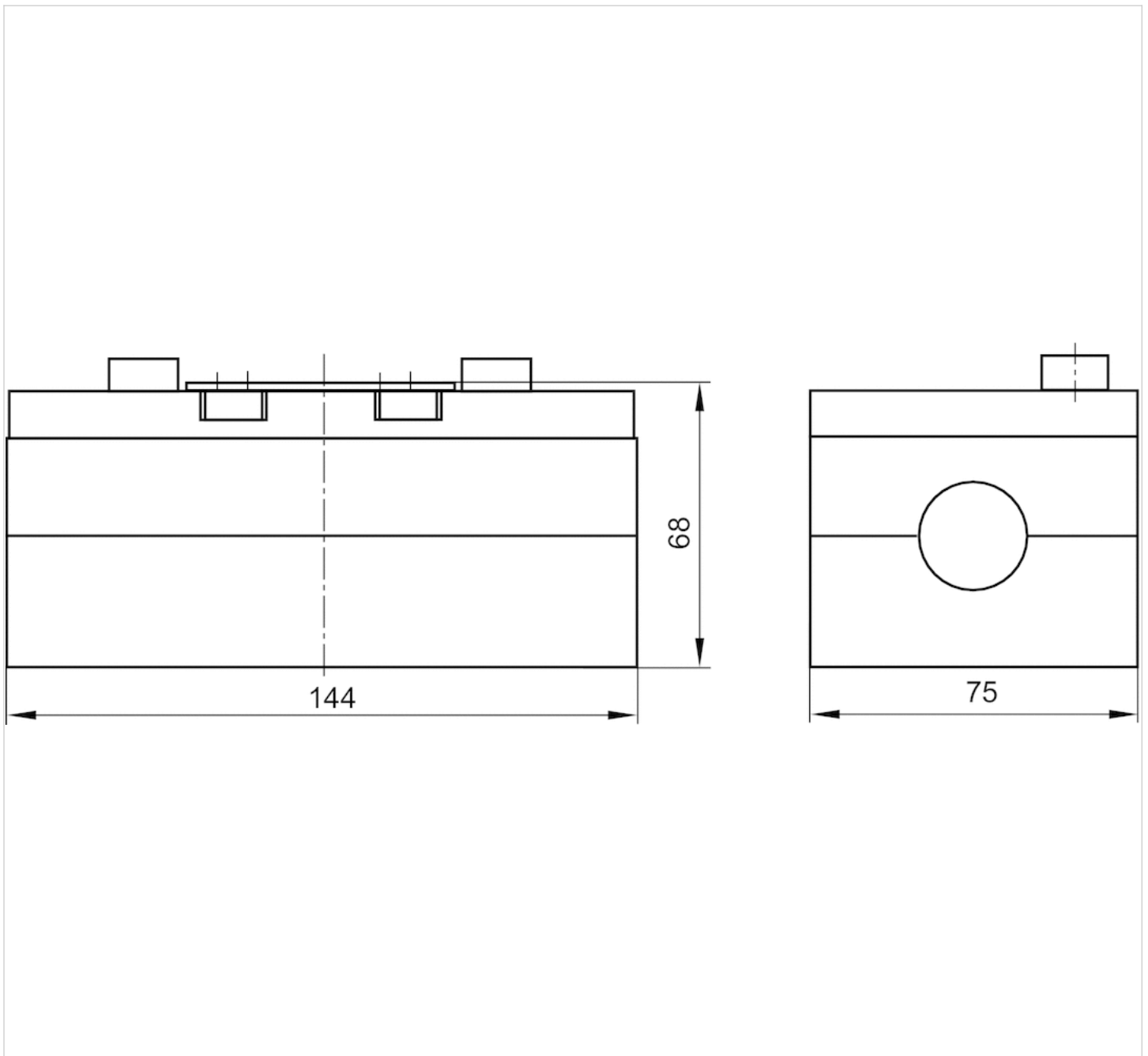
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- Basic valve for CNOMO pilot valve
- double solenoid
- Qn = 6000 l/min
- Compressed air connection output Base plate ISO 5599-1



| | |
|---------------------------------------|---------------------------------|
| Type | Spool valve |
| basic valve with electrical connector | Basic valve without pilot valve |
| Pilot | External Internal |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| | |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m³ |
| Nominal flow Qn | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Compressed air connection | according to ISO 5599 |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Throttle |
|------------|--|---------------|
| 5814280000 | | - |
| 5814281000 | | with throttle |

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

The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

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.

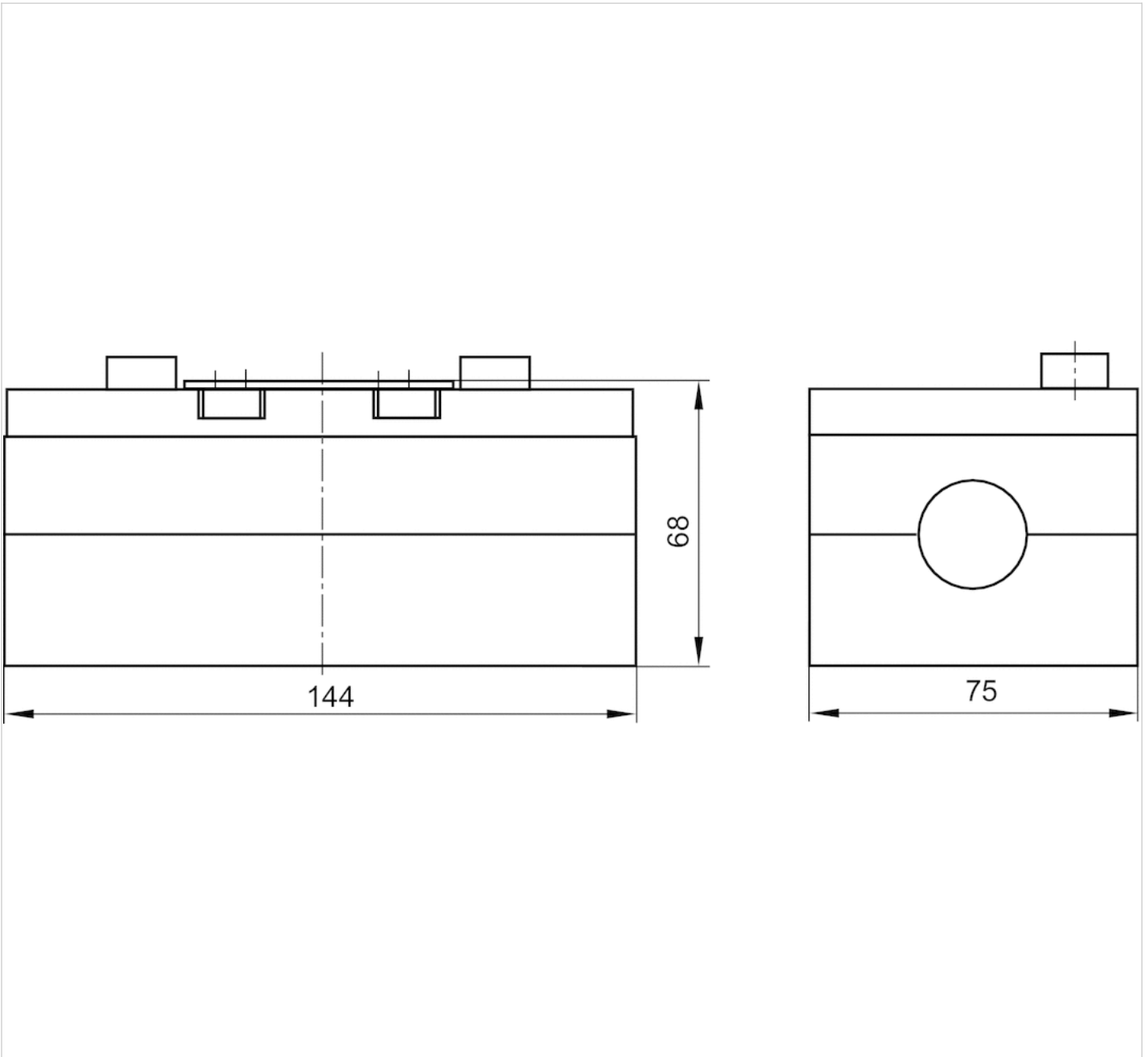
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions




5/2-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/2
- Basic valve for CNOMO pilot valve, with differential piston
- With air spring return
- $Q_n = 6000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



| | |
|---------------------------------------|---------------------------------|
| Type | Spool valve |
| basic valve with electrical connector | Basic valve without pilot valve |
| Pilot | External Internal |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 6000 l/min |
| Flow conductance C | 24,5 l/(s*bar) |
| Compressed air connection | according to ISO 5599 |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Throttle |
|------------|---|---------------|
| 5814680000 |  | - |
| 5814681000 |  | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

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).

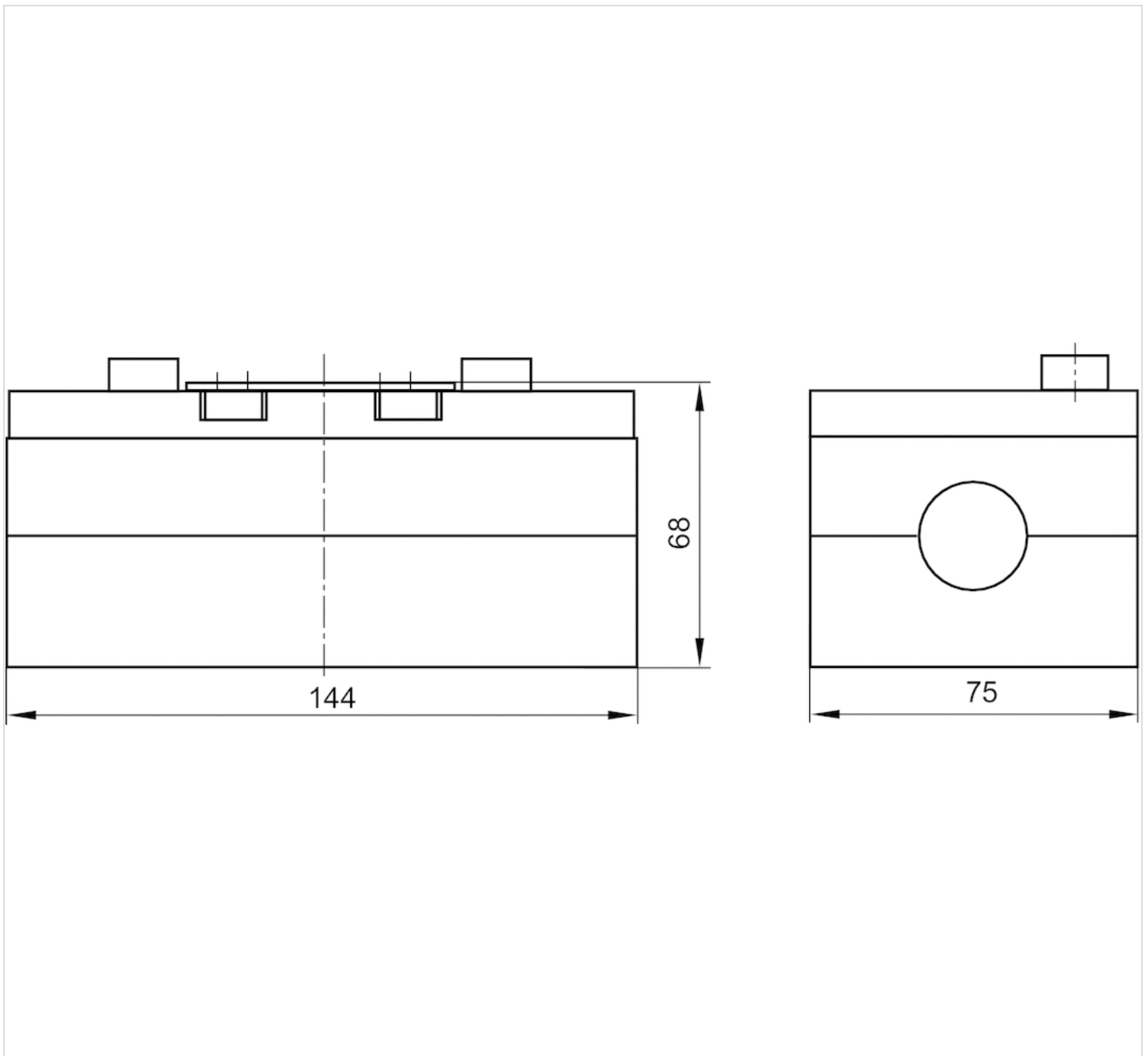
For internal pilot the working pressure min/max is the same as the control pressure min/max.
 Differential piston, signal 14 has priority

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



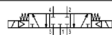
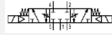
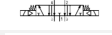

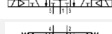
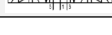
5/3-directional valve, Series 581, size 4

- ISO 5599-1
- ISO 4
- 5/3
- Basic valve for CNOMO pilot valve
- closed center exhausted center pressurized center
- $Q_n = 5000 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1



| | |
|---------------------------------------|---------------------------------|
| Type | Spool valve |
| basic valve with electrical connector | Basic valve without pilot valve |
| Pilot | External Internal |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 5000 l/min |
| Flow conductance C | 15,5 l/(s*bar) |
| Compressed air connection | according to ISO 5599 |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | | Throttle |
|------------|---|--------------------|---------------|
| 5814480000 |  | closed center | - |
| 5814481000 |  | closed center | with throttle |
| 5814580000 |  | exhausted center | - |
| 5814581000 |  | exhausted center | with throttle |
| 5814780000 |  | pressurized center | - |
| 5814781000 |  | pressurized center | with throttle |

Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$, The pilot can be set by turning the seal under the valve cover by 180°. For internal pilot the working pressure min/max is the same as the control pressure min/max.

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.

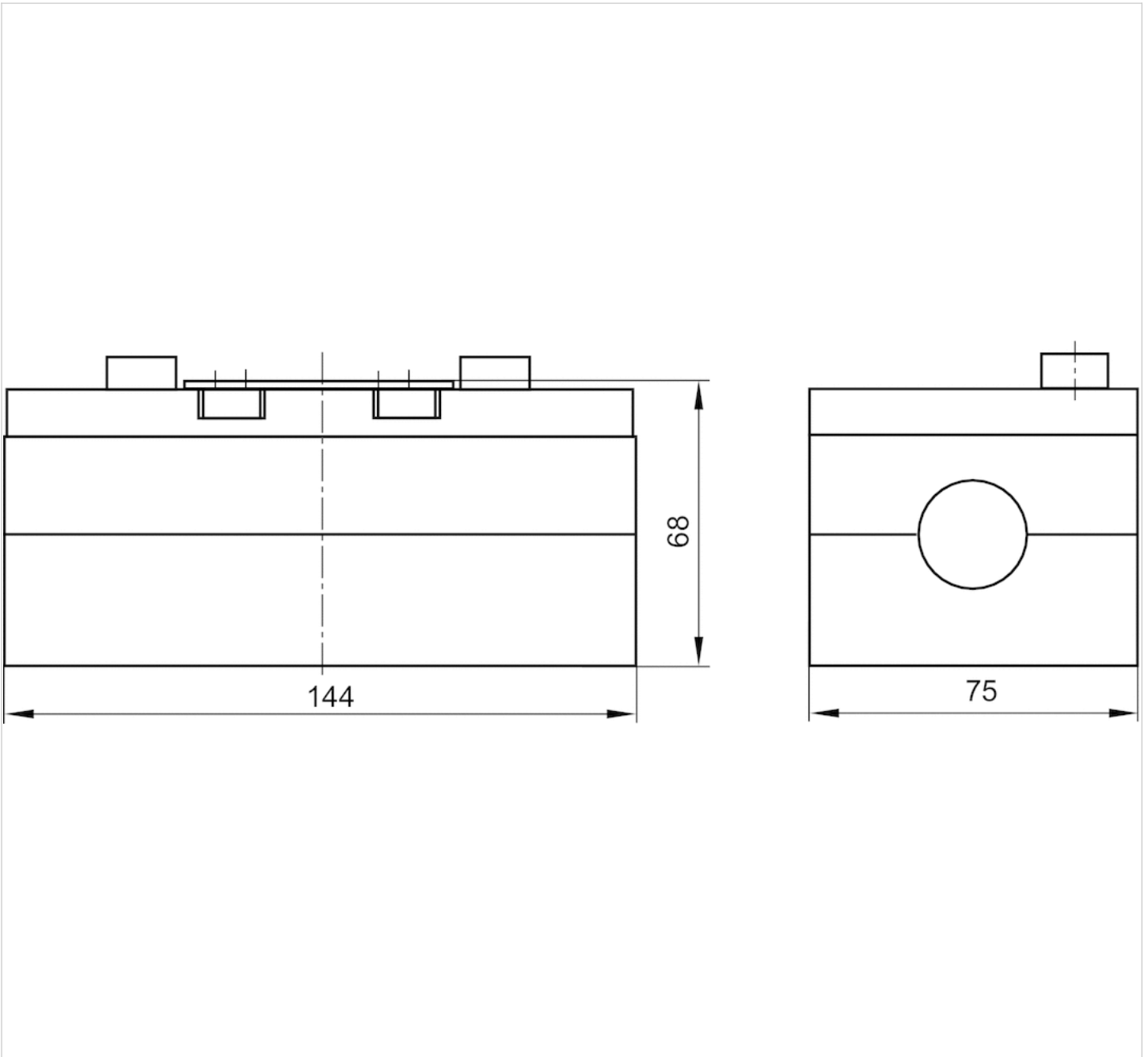
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions





5/2-directional valve, Series 581, size 4

- Single air pilot
- $Q_n = 6000 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Blocking principle | Single base plate principle |
| Sealing principle | Soft sealing |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Nominal flow Q_n | 6000 l/min |
| Compressed air connection | Base plate ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air class 6-4-3 |
| Max. particle size | 50 μm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5814130000 |  | 24,5 l/(s*bar) | - | |
| 5814131000 |  | 24,5 l/(s*bar) | with throttle | |

Connection 12 must be connected with atmospheres, Nominal flow Q_n at 6 bar and $\Delta p = 1 \text{ bar}$

Technical information

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

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

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

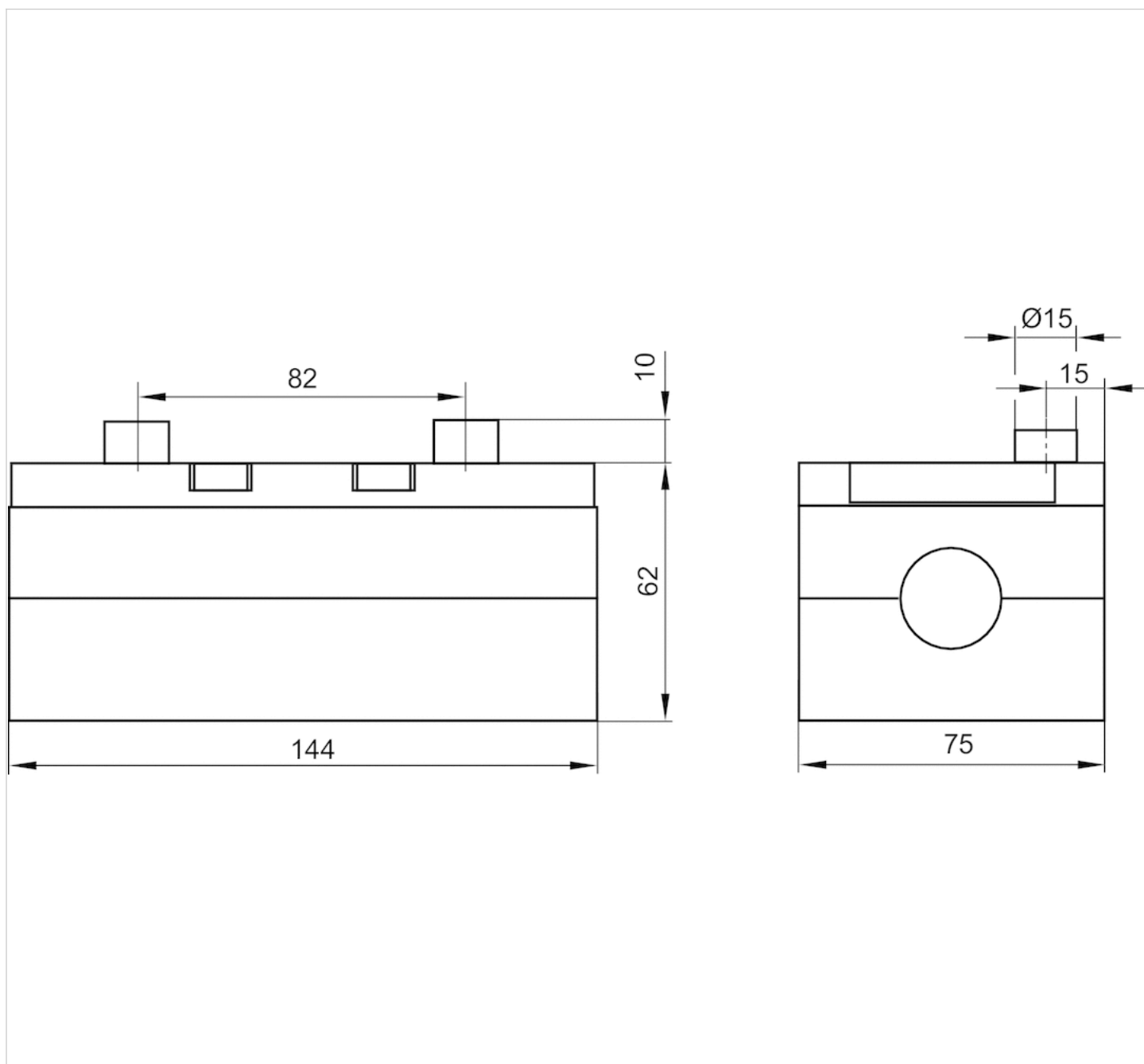
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions





5/2-directional valve, Series 581, size 4

- double air pilot
- $Q_n = 6000 \text{ l/min}$
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Blocking principle | Single base plate principle |
| Sealing principle | Soft sealing |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Nominal flow Q_n | 6000 l/min |
| Compressed air connection | Base plate ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air class 6-4-3 |
| Max. particle size | 50 μm |
| Oil content of compressed air | 0 ... 5 mg/m^3 |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5814230000 |  | 24,5 l/(s*bar) | - | |
| 5814231000 |  | 24,5 l/(s*bar) | with throttle | |

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

Technical information

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

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

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

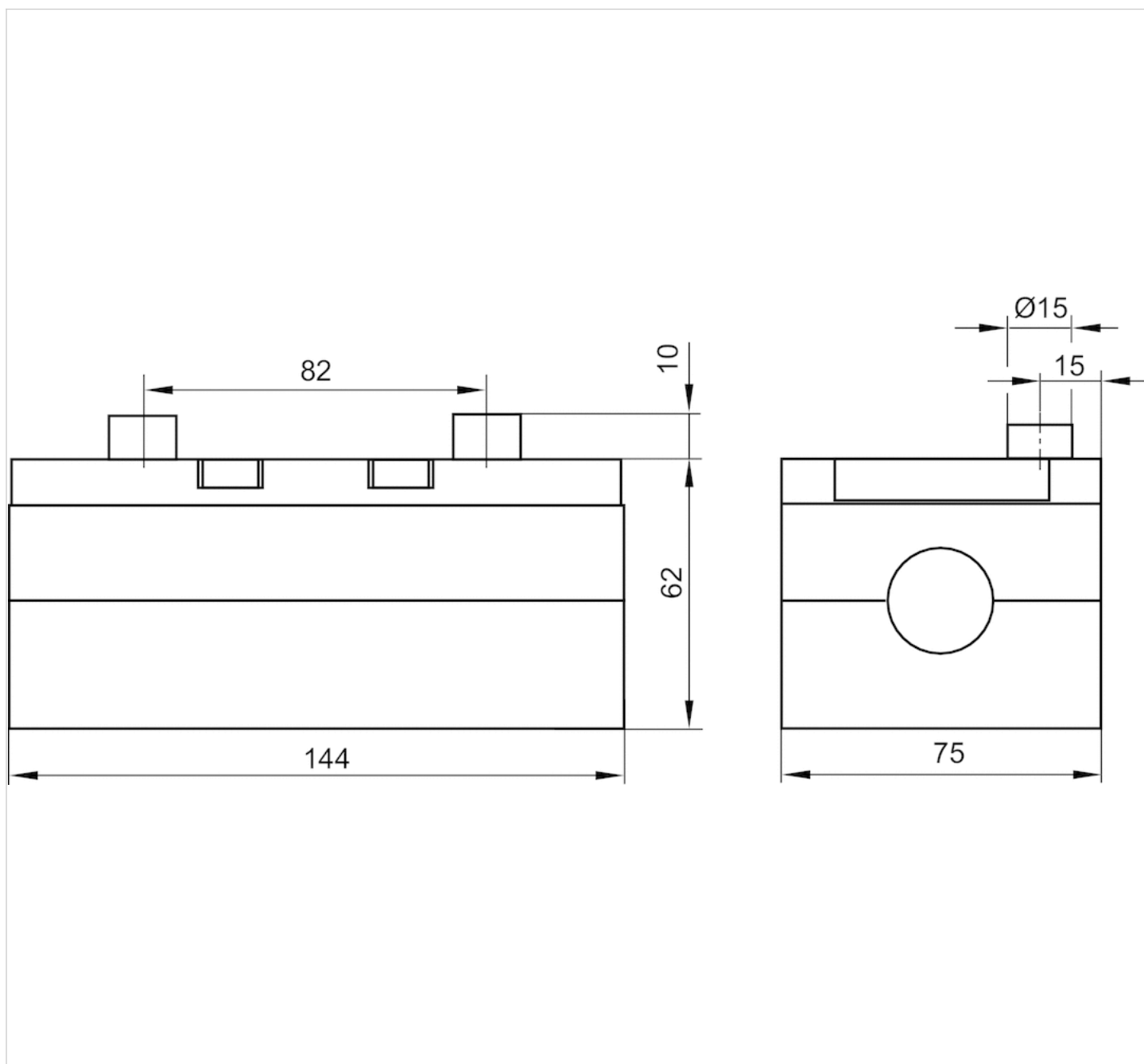
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions





5/2-directional valve, Series 581, size 4

- Qn = 6000 l/min
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks
- Manual override with detent



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Blocking principle | Single base plate principle |
| Sealing principle | Soft sealing |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Nominal flow Qn | 6000 l/min |
| Compressed air connection | Base plate ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air class 6-4-3 |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5814330000 |  | 24,5 l/(s*bar) | - | |
| 5814331000 |  | 24,5 l/(s*bar) | with throttle | |

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

Technical information

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

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

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

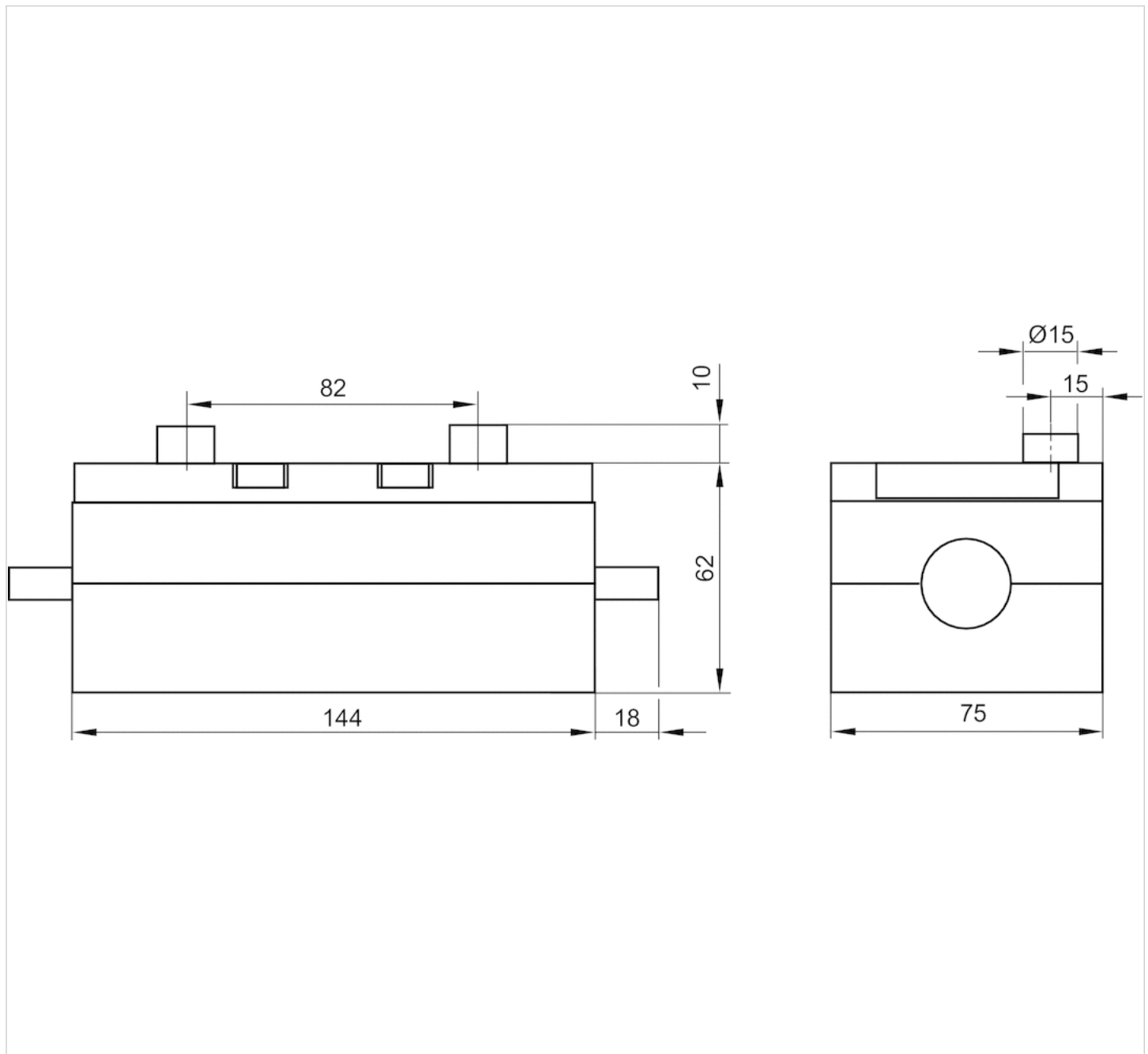
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions





5/2-directional valve, Series 581, size 4

- With differential piston
- $Q_n = 6000$ l/min
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Blocking principle | Single base plate principle |
| Sealing principle | Soft sealing |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Nominal flow Q_n | 6000 l/min |
| Compressed air connection | Base plate ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 1,5 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air class 6-4-3 |
| Max. particle size | 50 μm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5814630000 |  | 24,5 l/(s*bar) | - | |
| 5814631000 |  | 24,5 l/(s*bar) | with throttle | |

Differential piston, signal 14 has priority, Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

Technical information

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

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

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

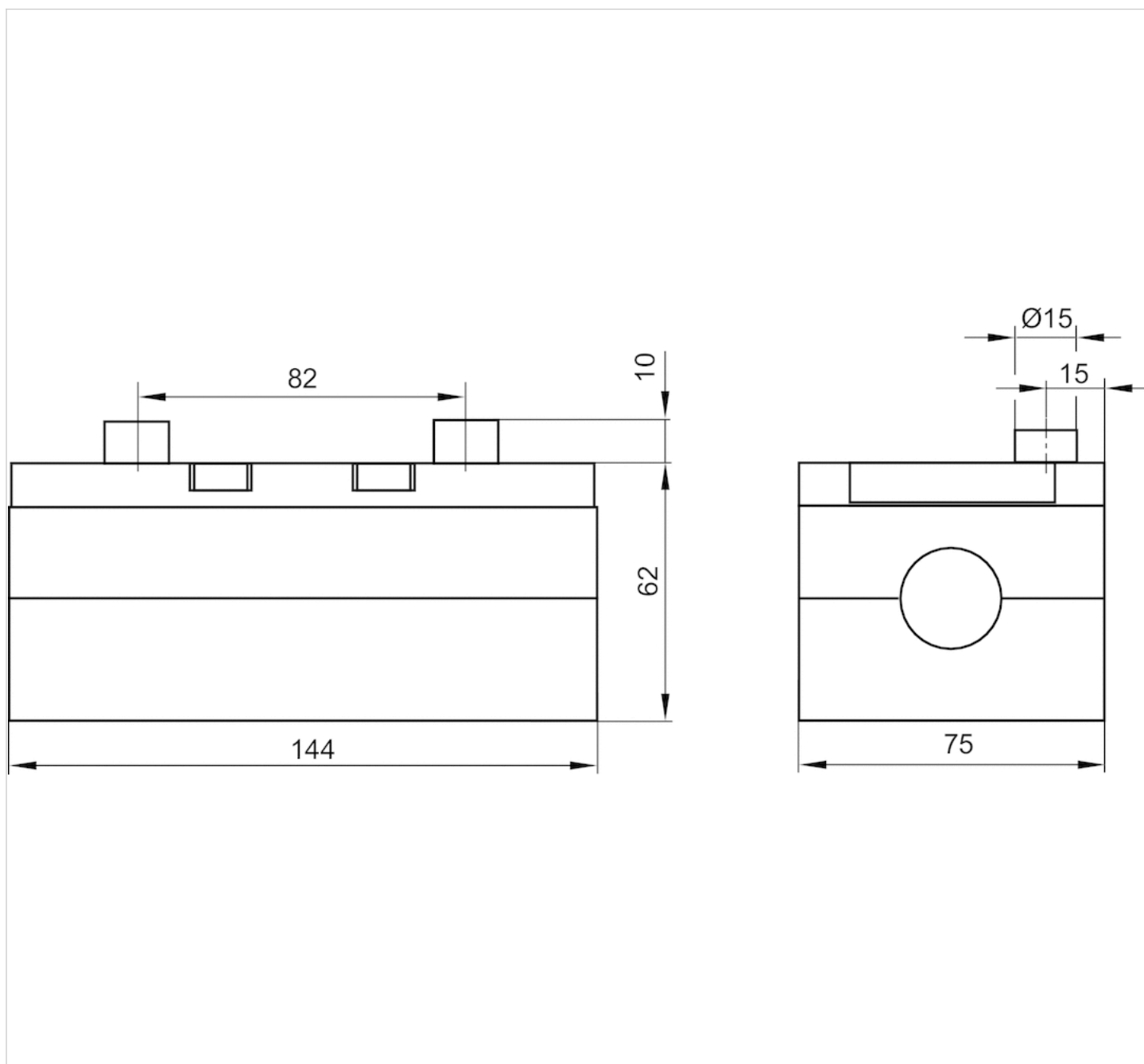
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions









5/3-directional valve, Series 581, size 4

- Qn = 5000 l/min
- Plate connection
- Compressed air connection output Base plate ISO 5599-1
- Can be assembled into blocks



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Blocking principle | Single base plate principle |
| Sealing principle | Soft sealing |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 4 |
| Nominal flow Qn | 5000 l/min |
| Compressed air connection | Base plate ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 3 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air class 6-4-3 |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 10 Nm |
| Weight | 1,28 kg |

Technical data

| Part No. | | | Flow conductance | Throttle | |
|------------|---|--------------------|------------------|---------------|--|
| | | | C-value | | |
| 5814430000 |  | closed center | 15,5 l/(s*bar) | - | |
| 5814431000 |  | closed center | 15,5 l/(s*bar) | with throttle | |
| 5814530000 |  | exhausted center | 15,5 l/(s*bar) | - | |
| 5814531000 |  | exhausted center | 15,5 l/(s*bar) | with throttle | |
| 5814730000 |  | pressurized center | 15,5 l/(s*bar) | - | |
| 5814731000 |  | pressurized center | 15,5 l/(s*bar) | with throttle | |

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

Technical information

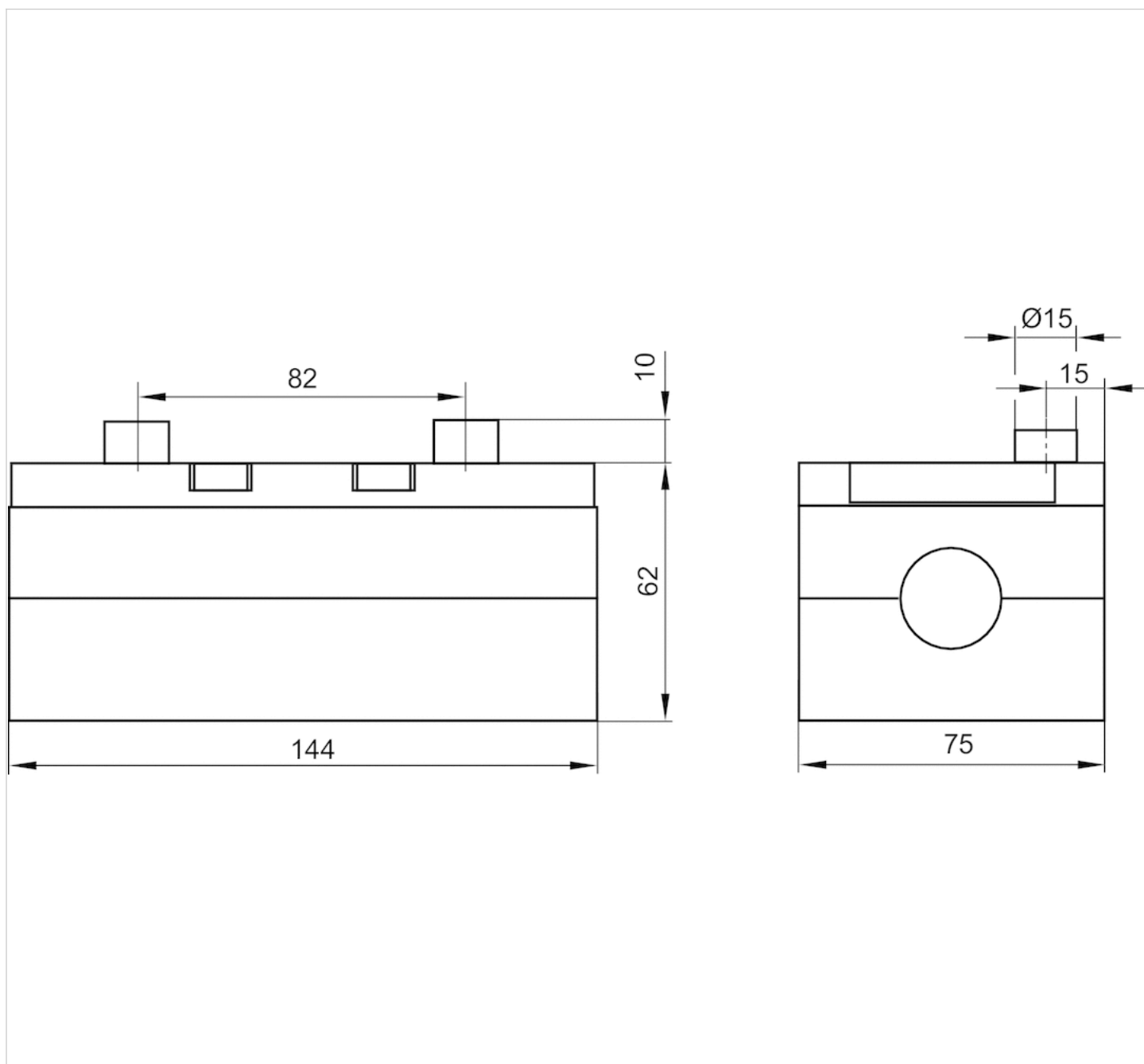
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| | |
|---------|--------------------------------|
| Housing | Aluminum |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



5/2-directional valve, Series 581, size 4

5814180000

ISO 5599-1, size 4, series 581

■ $Q_n = 5000 \dots 6000 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
6000 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Actuating control
Single Solenoid

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Return
With spring return

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
24.5 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 4

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
10 Nm

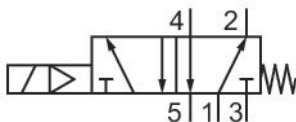
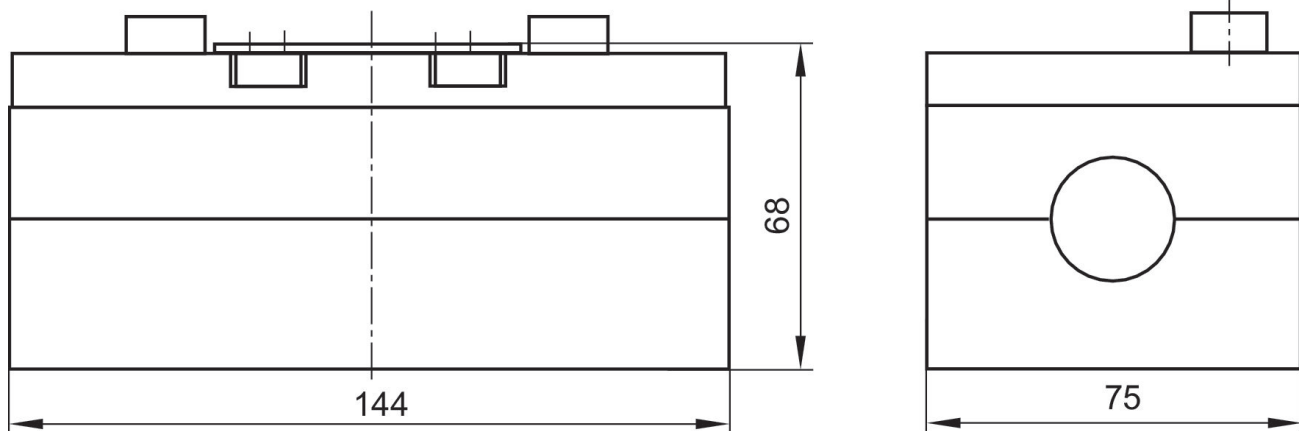
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814180000

Dimensions



5/2-directional valve, Series 581, size 4

5814280100

ISO 5599-1, size 4, series 581

■ $Q_n = 5000 \dots 6000 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
6000 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Actuating control
Double Solenoid

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Flow conductance C
24.5 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 4

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Standard compressed air connection
according to ISO 5599

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
10 Nm

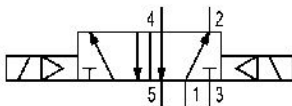
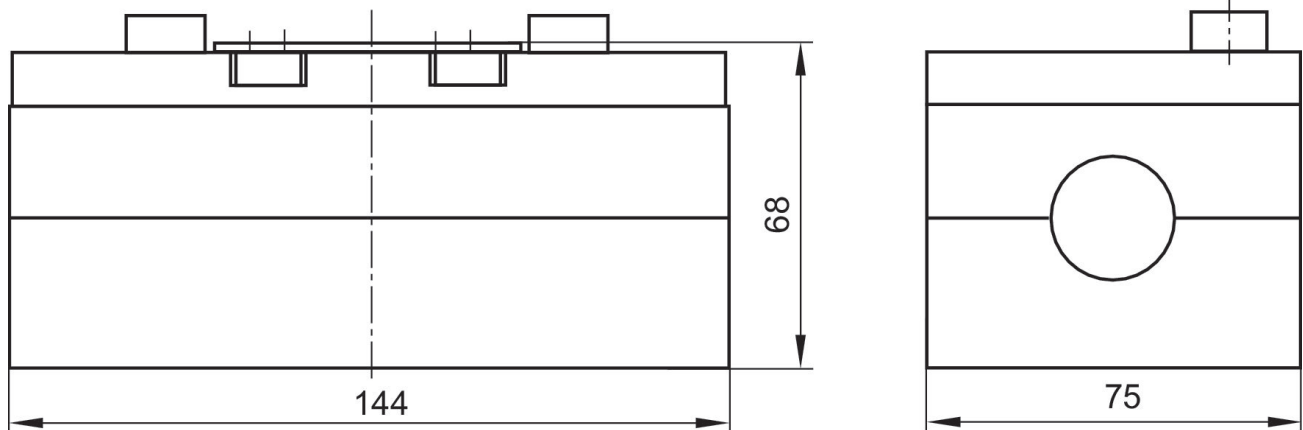
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814280100

Dimensions



5/3-directional valve, Series 581, size 4

5814480100

ISO 5599-1, size 4, series 581

■ $Q_n = 5000 \dots 6000 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
5000 l/min

Switching principle
5/3

Version
Closed Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Flow conductance C
15.5 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 4

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Standard compressed air connection
according to ISO 5599

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
10 Nm

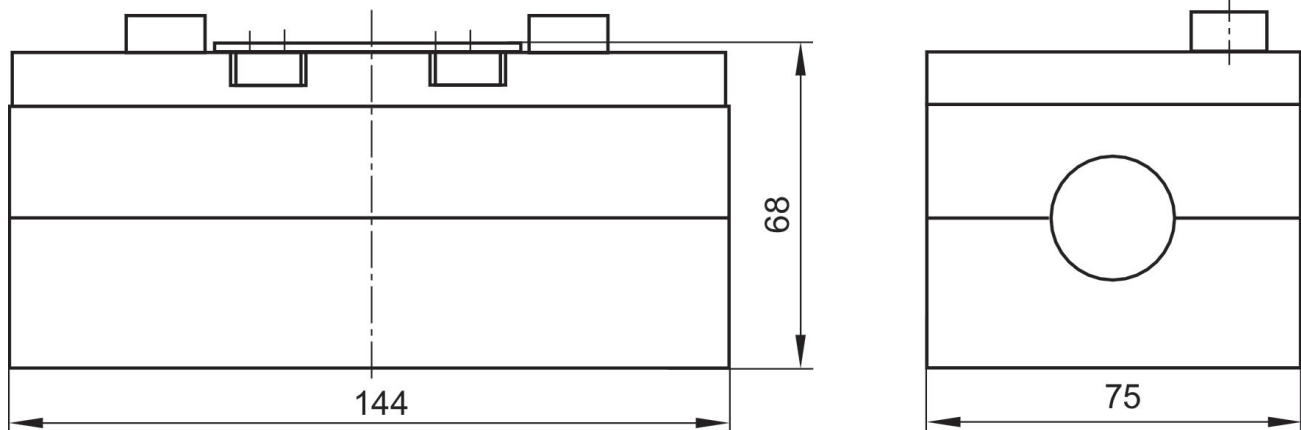
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814480100

Dimensions



5/3-directional valve, Series 581, size 4

5814580100

ISO 5599-1, size 4, series 581

■ $Q_n = 5000 \dots 6000 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
5000 l/min

Switching principle
5/3

Version
Exhausted Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Flow conductance C
15.5 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 4

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Standard compressed air connection
according to ISO 5599

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
10 Nm

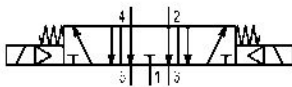
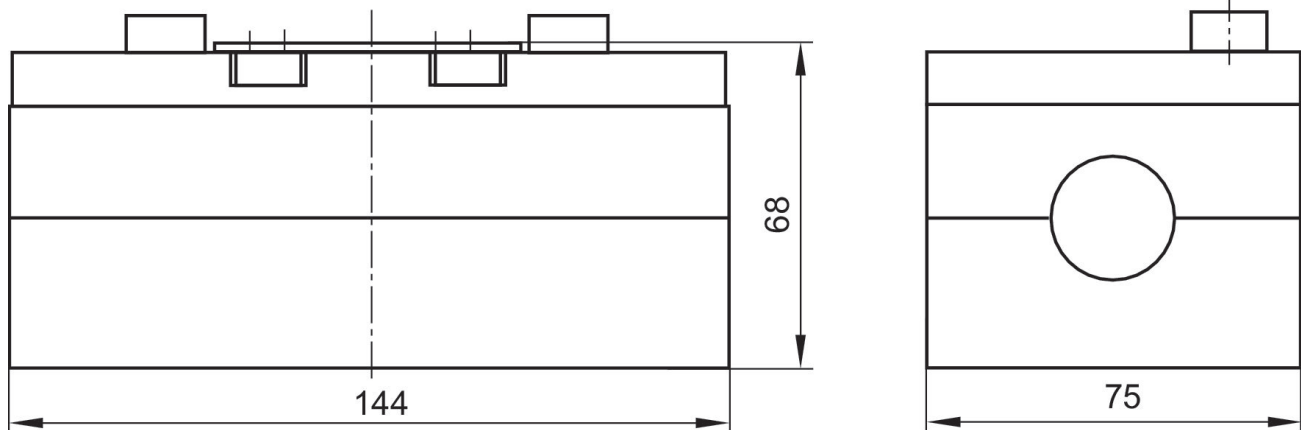
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814580100

Dimensions



5/2-directional valve, Series 581, size 4

5814680100

ISO 5599-1, size 4, series 581

■ $Q_n = 5000 \dots 6000 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
6000 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Return
with air spring return

Flow conductance C
24.5 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 4

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Standard compressed air connection
according to ISO 5599

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
10 Nm

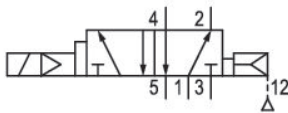
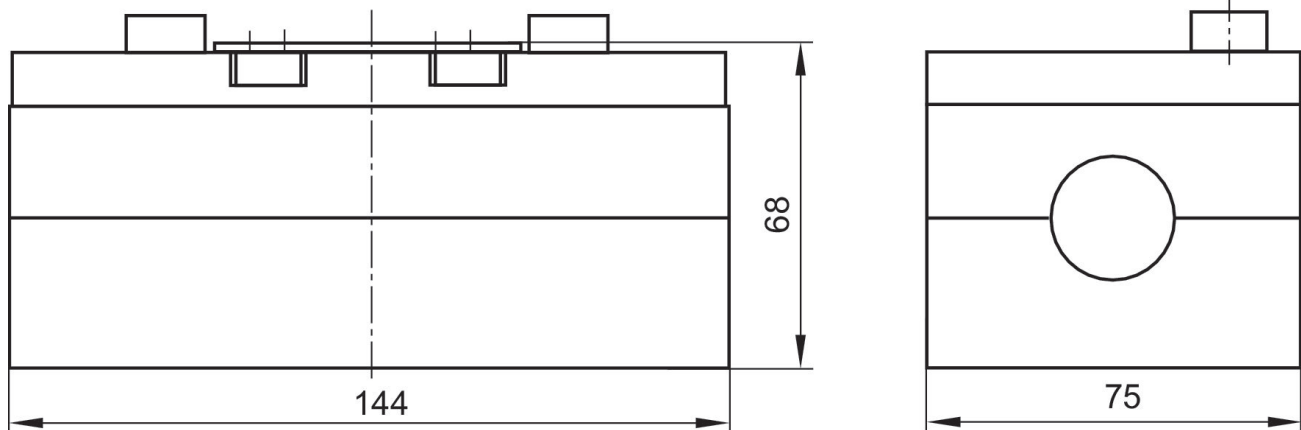
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814680100

Dimensions



5/3-directional valve, Series 581, size 4

5814780100

ISO 5599-1, size 4, series 581

■ $Q_n = 5000 \dots 6000 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
5000 l/min

Switching principle
5/3

Version
Pressurized Center

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

Pilot
External
Internal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Pilot valve width
30 mm

Valve type
Spool valve

Blocking principle
Single base plate principle

Connection type
Plate connection

Flow conductance C
15.5 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 4

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Standard compressed air connection
according to ISO 5599

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
10 Nm

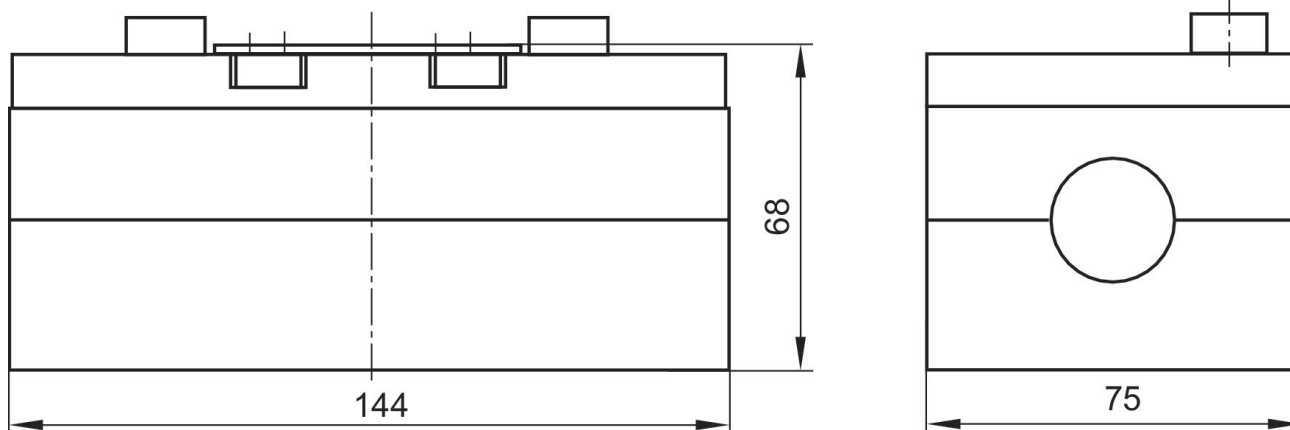
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814780100

Dimensions



5/2-directional valve, Series 581, size 4

5814130100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
6000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
24.5 l/(s*bar)

Dimensions

Mounting screw
with hexagon socket

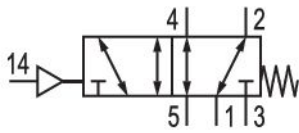
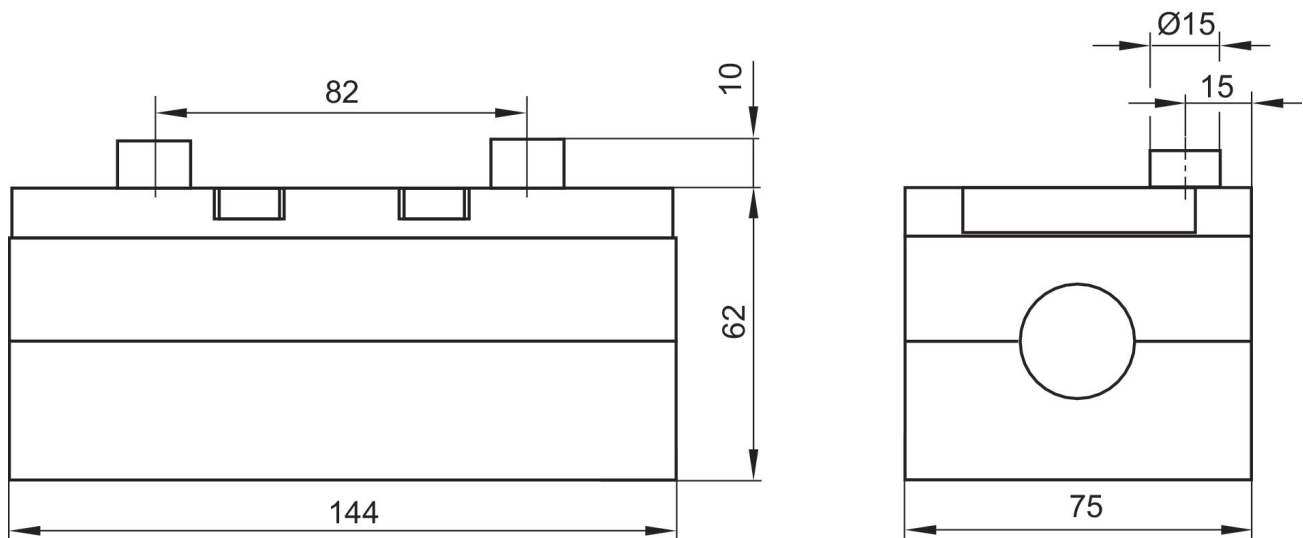
Mounting screw tightening torque
10 Nm

Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814130100



5/2-directional valve, Series 581, size 4

5814230100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
6000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
24.5 l/(s*bar)

Dimensions

Mounting screw
with hexagon socket

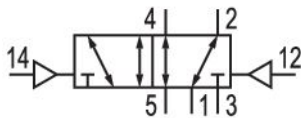
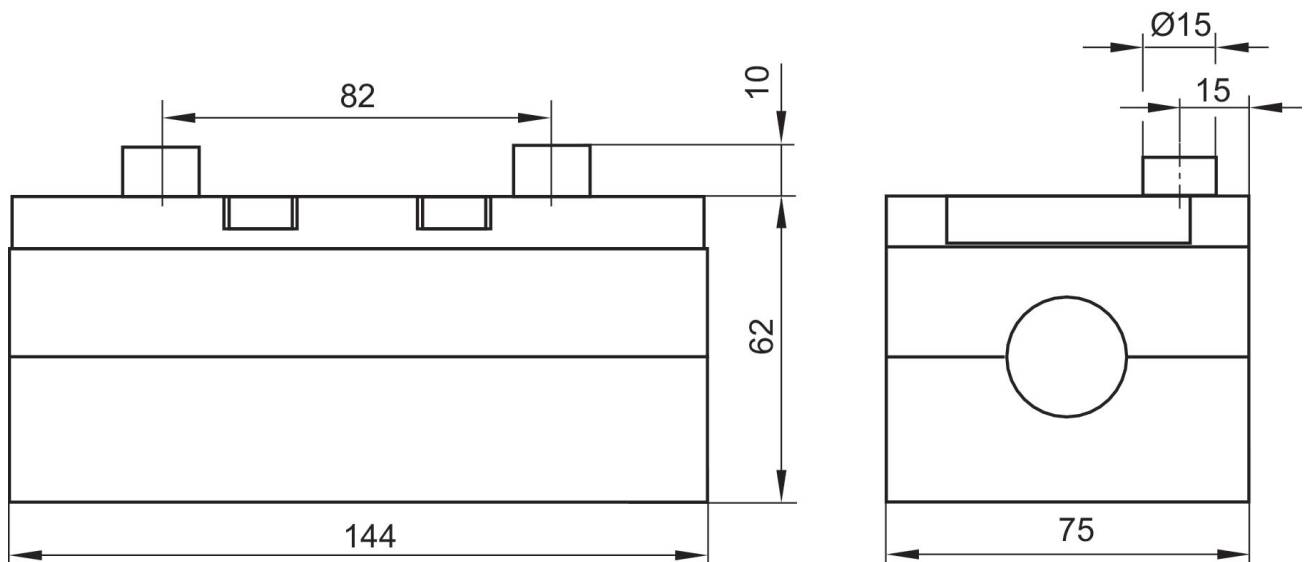
Mounting screw tightening torque
10 Nm

Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814230100



5/2-directional valve, Series 581, size 4

5814330100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
6000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Manual override
with detent

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
24.5 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
10 Nm

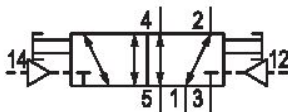
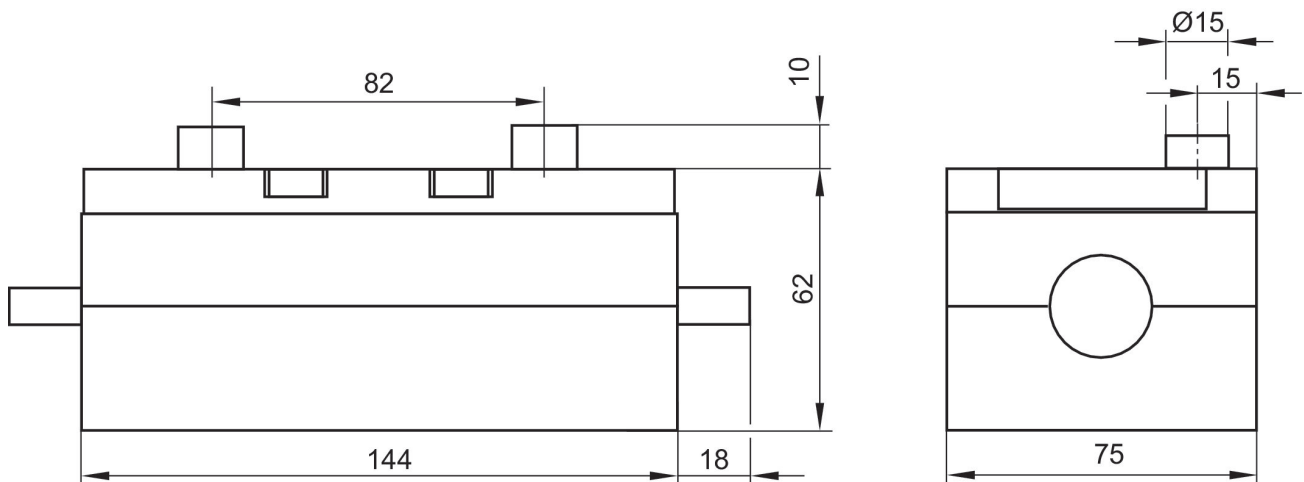
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814330100

Dimensions



5/3-directional valve, Series 581, size 4

5814430100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
5000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

version pneumatic port
Closed Center

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
15.5 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
10 Nm

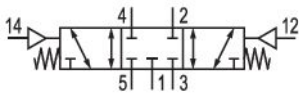
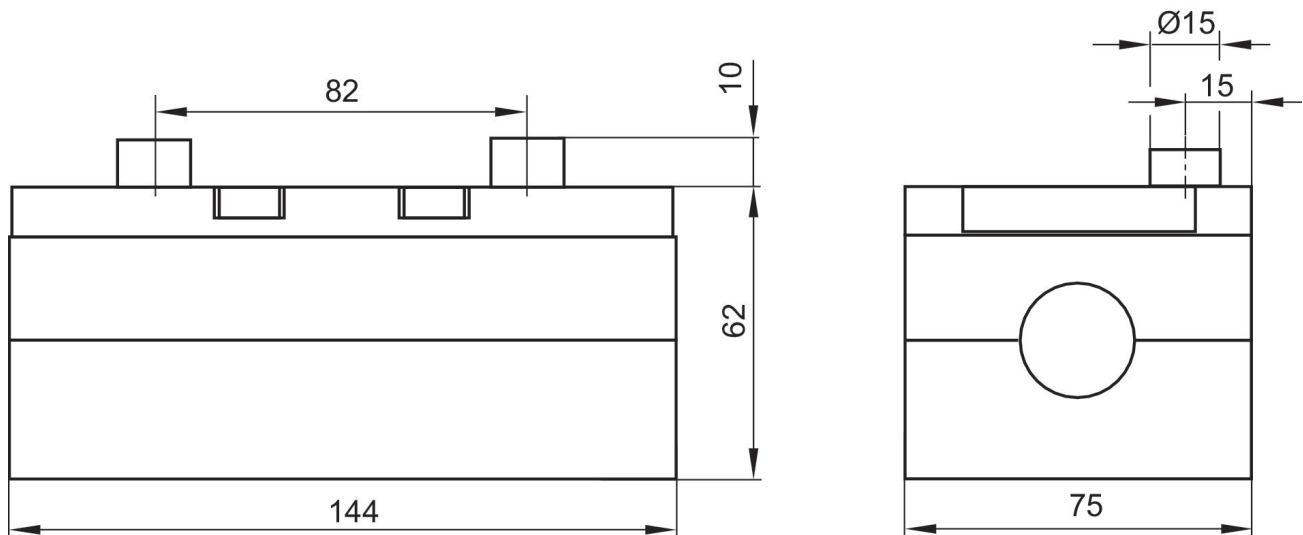
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814430100

Dimensions



5/3-directional valve, Series 581, size 4

5814530100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
5000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

version pneumatic port
Exhausted Center

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
15.5 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
10 Nm

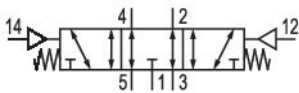
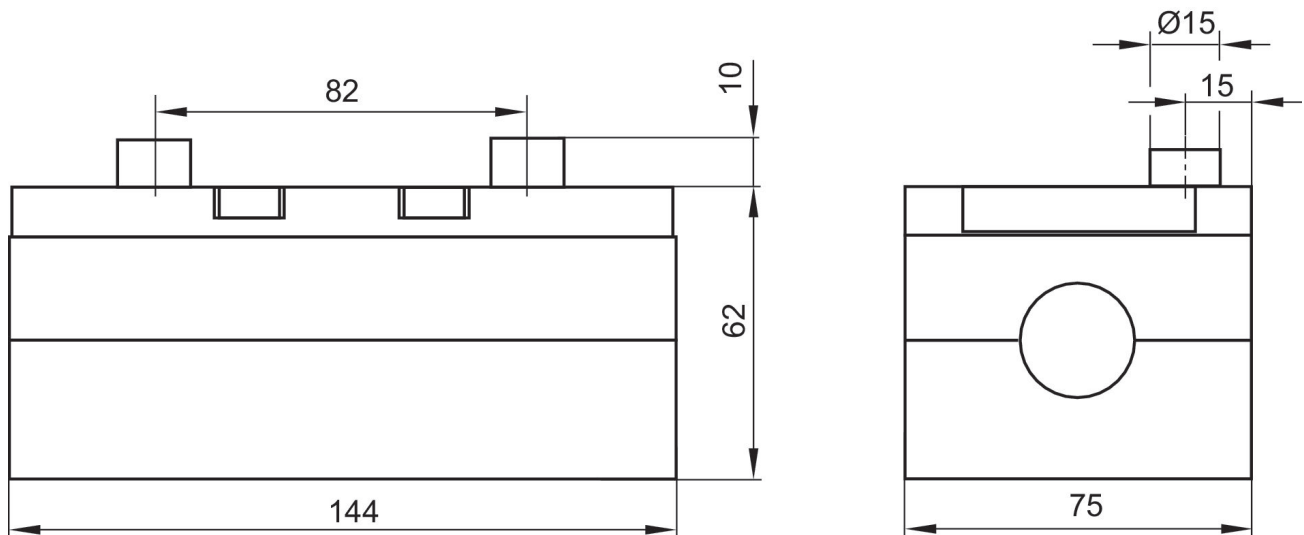
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814530100

Dimensions



5/2-directional valve, Series 581, size 4

5814630100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
6000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
1.5 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
24.5 l/(s*bar)

Dimensions

Mounting screw
with hexagon socket

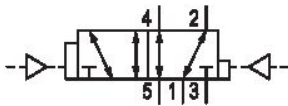
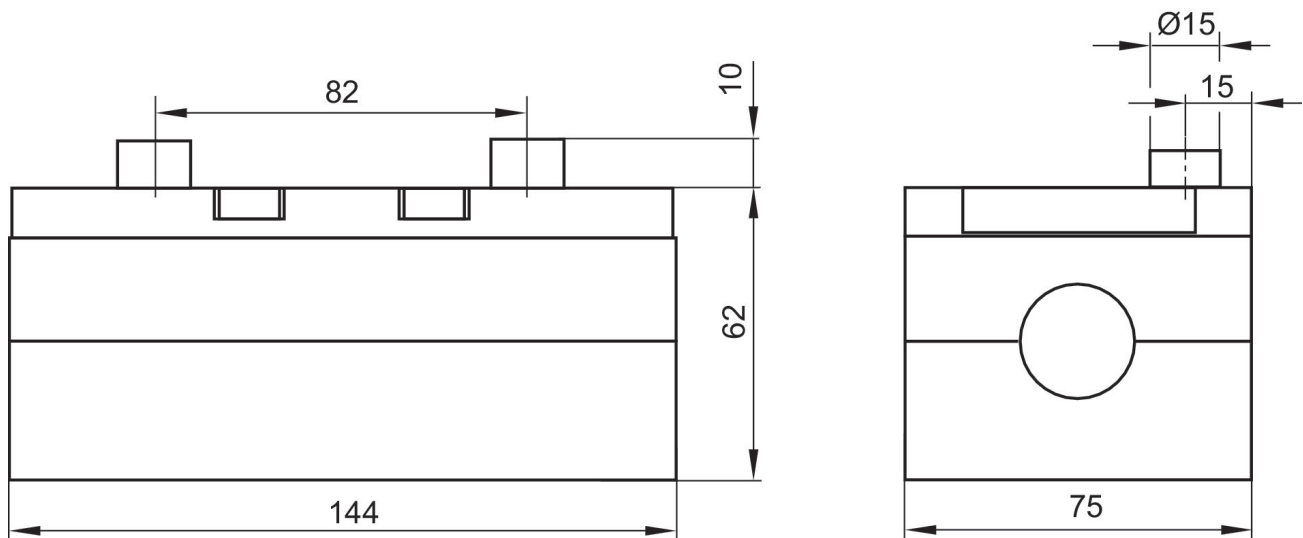
Mounting screw tightening torque
10 Nm

Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814630100



5/3-directional valve, Series 581, size 4

5814730100

ISO 5599-1, size 4, series 581

■ $Q_n = 1400$ l/min



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
5000 l/min

Compressed air connection output
Base plate ISO 5599-1

Connection type
Plate connection

Working pressure min.
-0.95 bar

Working pressure max
16 bar

Sealing principle
Soft Seal

ATEX
ATEX

II 2G Ex h IIC T6 Gb

II 2D Ex h IIIC T85°C Db IP65

Standards
ISO 5599-1

Valve type
Spool valve

Version
ISO 4

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
3 bar

Control pressure max.
16 bar

Min. ambient temperature
-20 °C

Max. ambient temperature
70 °C

Min. medium temperature
-20 °C

Max. medium temperature
70 °C

Medium
Compressed air

Max. particle size
50 µm

Oil content of compressed air min.
0 mg/m³

Oil content of compressed air max.
5 mg/m³

version pneumatic port
Pressurized Center

Compressed air connection input
Base plate ISO 5599-1

Flow conductance C
15.5 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
10 Nm

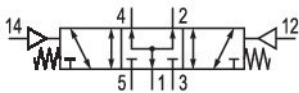
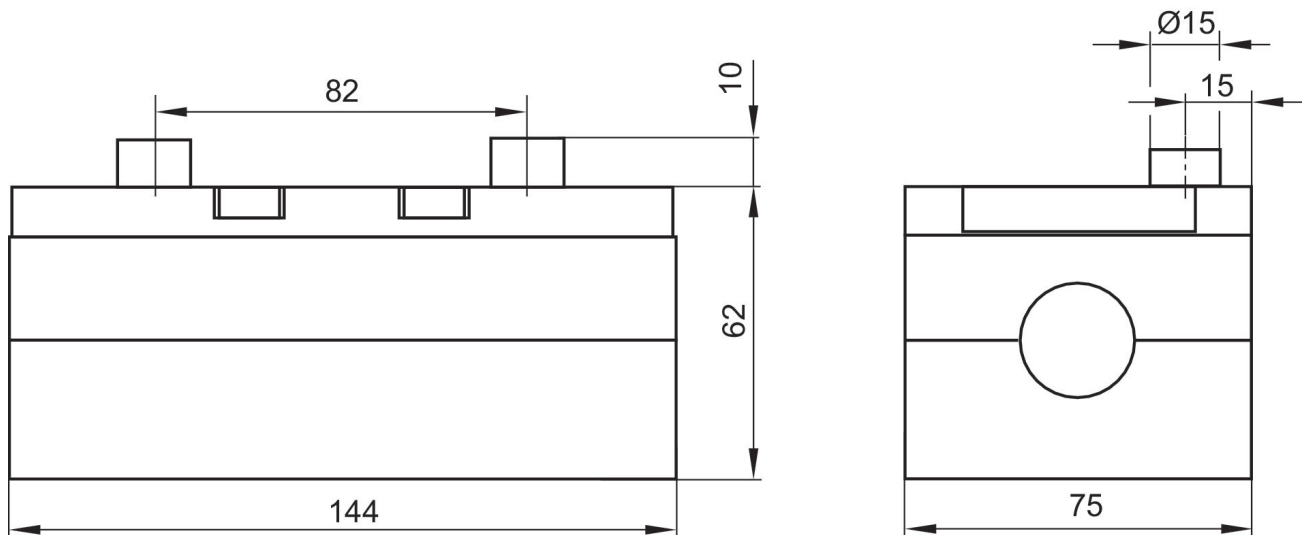
Weight
1.28 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5814730100

Dimensions



Single subbase, thread connections on the side

- standard ISO 5599-1
- Frame size ISO 4
- Compressed air connection output G 3/4
- Reversed pressure supply permissible



| | |
|-----------------------------------|--------------------------------|
| Standards | ISO 5599-1 |
| Compressed air connection | according to ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Ambient temperature min./max. | -25 ... 70 °C |
| Medium temperature min./max. | -25 ... 70 °C |
| Medium | Compressed air |
| Number of valve positions max. | 1 |
| Grid dimension | 85 mm |
| Direction of pneumatic port (1) | On the side |
| Direction of pneumatic port (3,5) | On the side |
| Direction of pneumatic port (2,4) | On the side |
| Direction of pneumatic port (12) | On the side |
| Direction of pneumatic port (14) | On the side |
| Exhaust (3,5) | With directional exhaust (3/5) |
| Exhaust type | Ports separated |
| Weight | 0,99 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 8985041404 | G 3/4 | G 3/4 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 8985041404 | G 3/4 | G 1/8 |

| Part No. | Compressed air connection Pilot control exhaust [R] |
|------------|---|
| 8985041404 | G 1/8 |

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).

For use with HV series valves, the ambient temperature is -25 °C...200 °C and the medium temperature is -25 °C...120 °C.
 Reversed pressure supply is not permitted for HV series valves.

Technical information

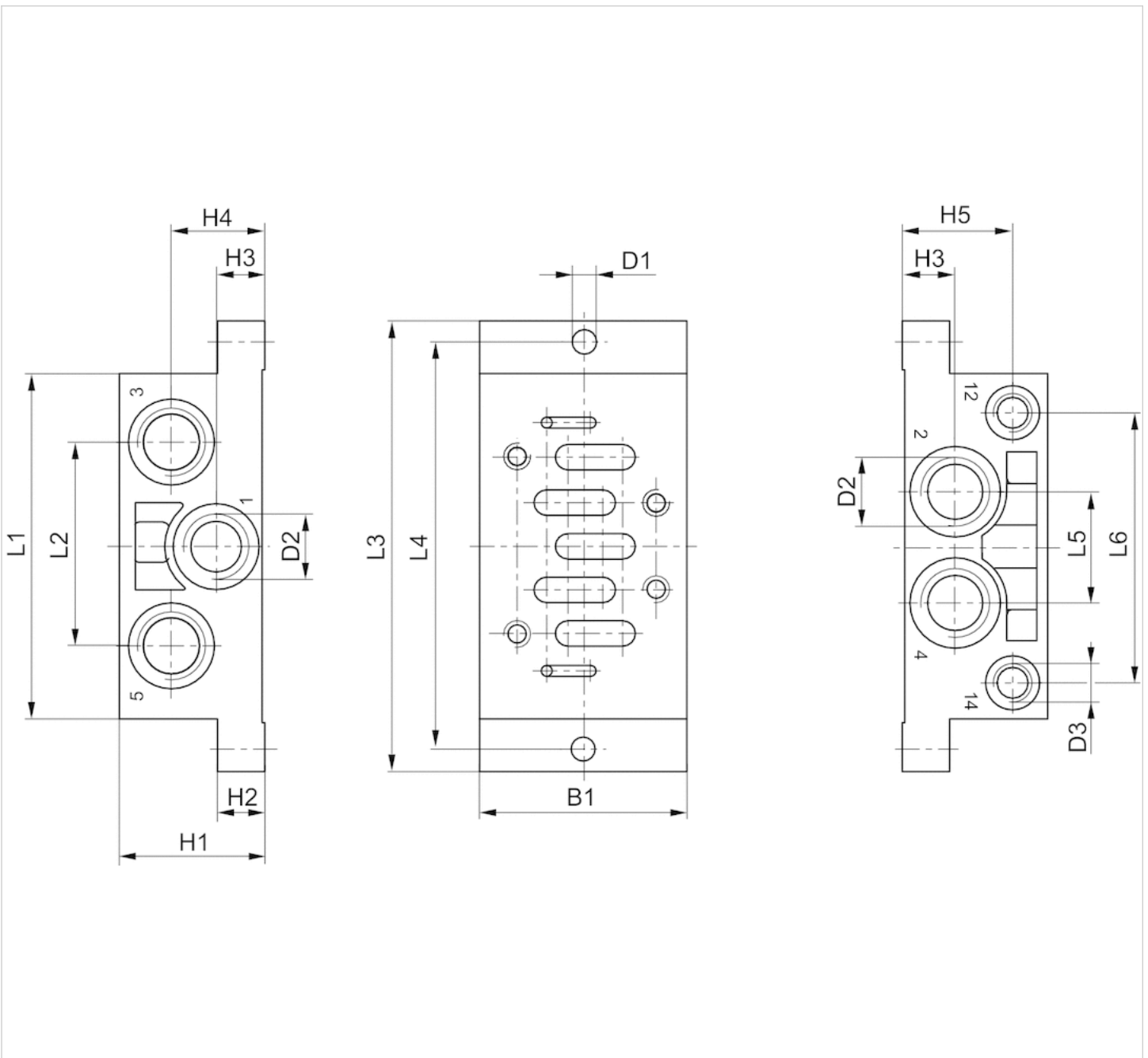
Material

Base plate

Die-cast aluminum

Dimensions

Fig. 1



Dimensions

| Part No. | Frame size | B1 | H1 | H2 | H3 | H4 | H5 | D1 | D2 *) | D3 *) | L1 | L2 | L3 | L4 | L5 | L6 |
|------------|------------|----|----|----|----|----|----|----|-------|-------|-----|----|-----|-----|----|-----|
| 8985041404 | ISO 4 | 85 | 42 | 19 | 22 | 22 | 30 | 9 | G 3/4 | G 1/8 | 148 | 90 | 186 | 170 | 42 | 111 |

*) Ports

Single subbase, ports on side

- standard ISO 5599-1
- Frame size ISO 4
- Compressed air connection output G 1/2



| | |
|-----------------------------------|--------------------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -1 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Number of valve positions max. | 1 |
| Direction of pneumatic port (1) | On the side |
| Direction of pneumatic port (3,5) | On the side |
| Direction of pneumatic port (2,4) | On the side |
| Direction of pneumatic port (14) | On the side |
| Exhaust (3,5) | With directional exhaust (3/5) |
| Exhaust type | Ports separated |
| Weight | 0,63 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5804710000 | G 1/2 | G 1/2 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 5804710000 | G 1/2 | G 1/8 |

Technical information

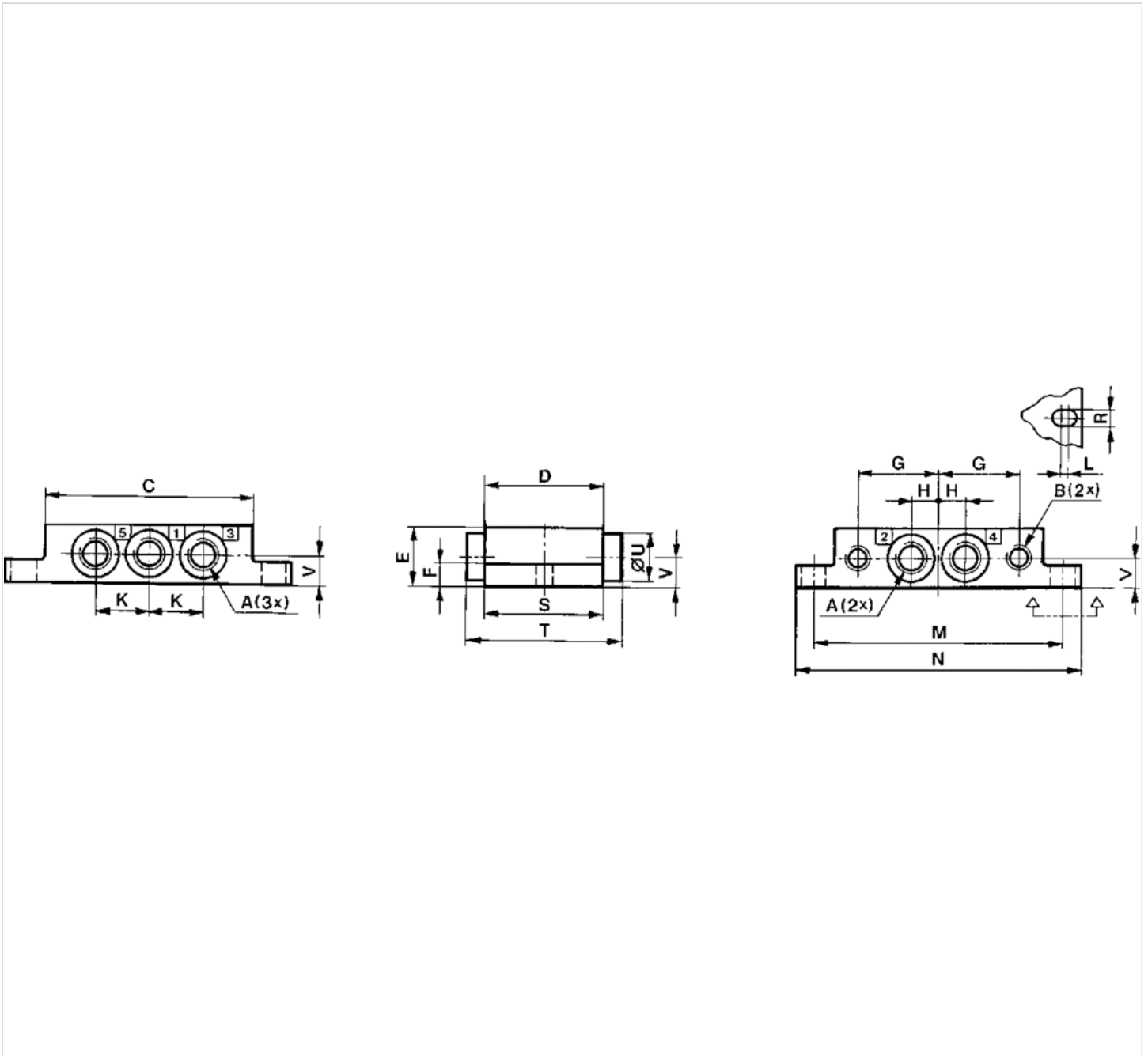
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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 | Die-cast aluminum, black painted |

Dimensions

Dimensions



Dimensions

| Part No. | Frame size | A *) | B *) | C | D | E | F | G | H | K | L | M | N | R | S | T | U | V |
|------------|------------|-------|-------|-----|----|----|----|------|----|----|---|-----|-----|-----|----|---|---|----|
| 5804710000 | ISO 4 | G 1/2 | G 1/8 | 142 | 76 | 37 | 10 | 55.5 | 20 | 40 | 2 | 175 | 190 | 8.4 | 76 | - | - | 21 |

*) Ports

Single subbase, ports on bottom

- standard ISO 5599-1
- Frame size ISO 4
- Compressed air connection output G 1/2



| | |
|-----------------------------------|---------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -1 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Number of valve positions max. | 1 |
| Direction of pneumatic port (1) | Down |
| Direction of pneumatic port (3,5) | Down |
| Direction of pneumatic port (2,4) | Down |
| Direction of pneumatic port (14) | Down |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Weight | 0,63 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5804700000 | G 1/2 | G 1/2 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 5804700000 | G 1/2 | G 1/8 |

Technical information

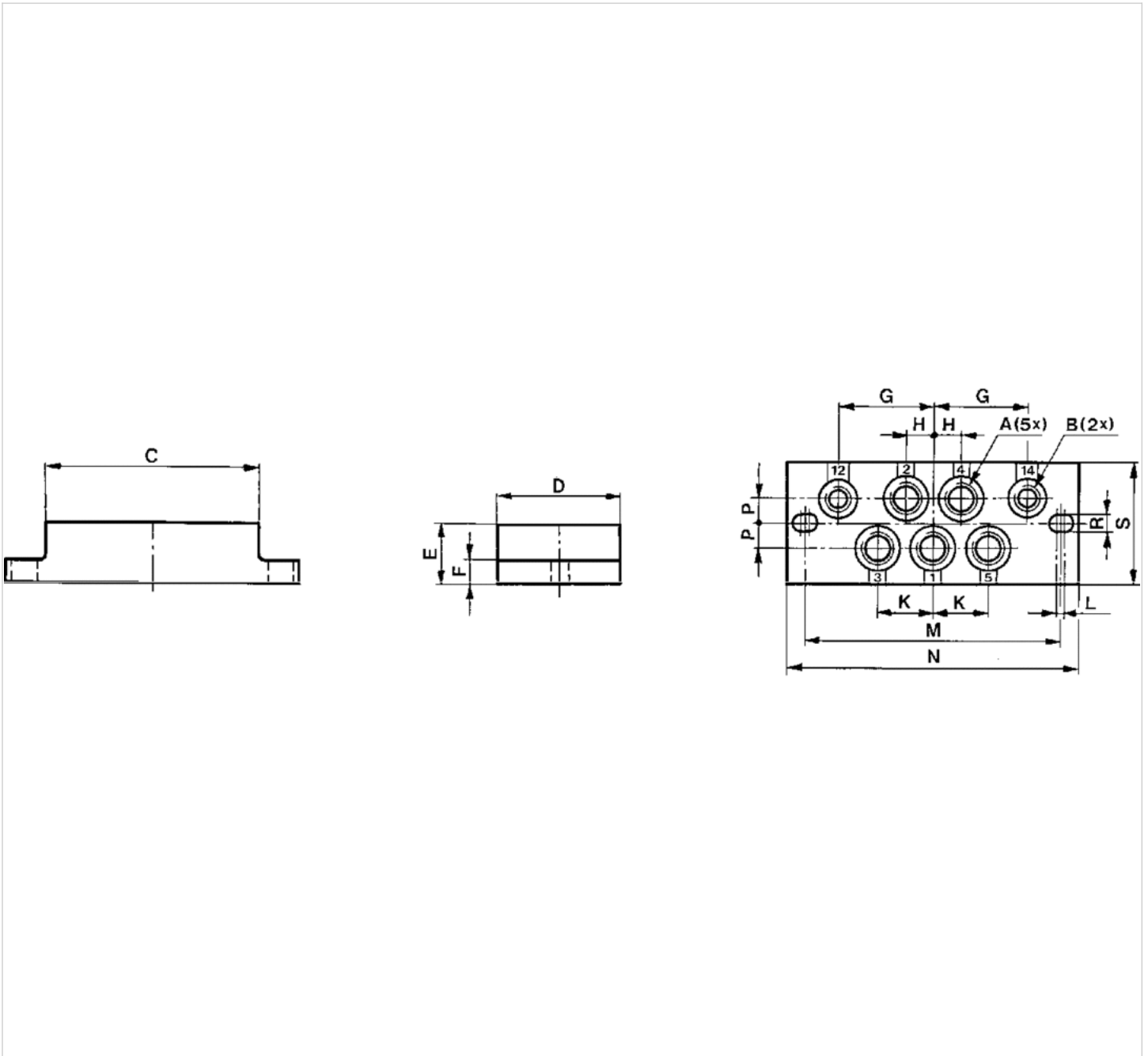
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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 | Die-cast aluminum, black painted |

Dimensions

Dimensions



Dimensions

| Part No. | Frame size | A *) | B *) | C | D | E | F | G | H | K | L | M | N | P | R | S |
|------------|------------|------|------|-----|----|----|----|------|----|----|---|-----|-----|----|-----|----|
| 5804700000 | ISO 4 | G1/2 | G1/8 | 142 | 76 | 37 | 10 | 55.5 | 20 | 40 | 2 | 175 | 190 | 13 | 8.4 | 76 |

*) Ports

Single subbase, for soft-start valve

- Compressed air connection output G 1/2



| | |
|--------------------------------|---------------------|
| Working pressure min./max. | -1 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Number of valve positions max. | 1 |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Weight | 0,34 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5834710000 | G 1/2 | G 1/2 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 5834710000 | G 1/2 | G 1/8 |

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).

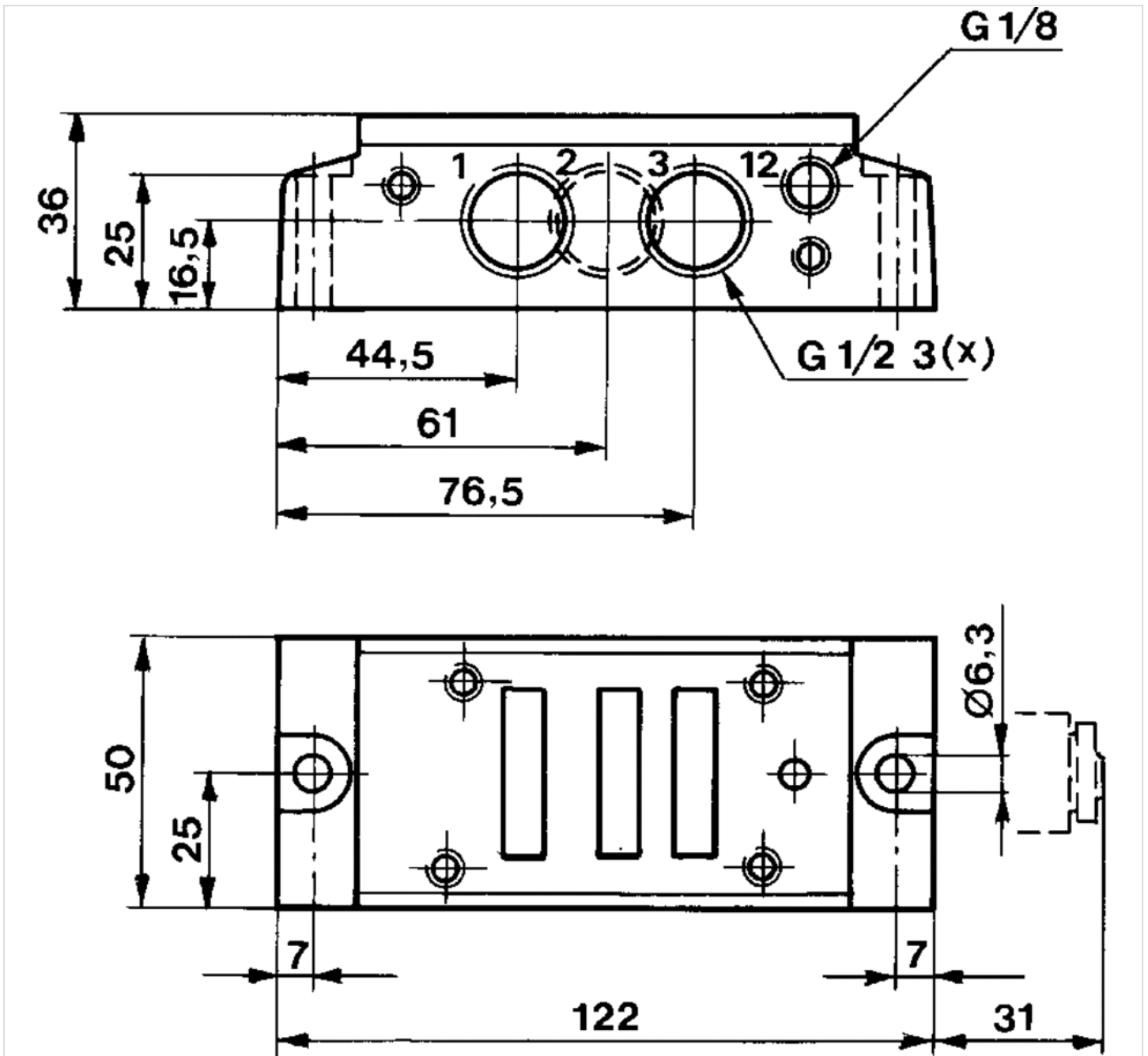
Technical information

Material

| | |
|------------|----------------------------------|
| Base plate | Die-cast aluminum, black painted |
|------------|----------------------------------|

Dimensions

Dimensions



Base plate, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 4
- type F
- Compressed air connection output G 3/4
- Can be assembled into blocks
- Single base plate principle
- Reversed pressure supply permissible
- With collective pilot air exhaust



| | |
|-----------------------------------|--------------------------------|
| Standards | ISO 5599-1 |
| Compressed air connection | according to ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Ambient temperature min./max. | -25 ... 70 °C |
| Medium temperature min./max. | -25 ... 70 °C |
| Medium | Compressed air |
| Number of valve positions max. | 1 |
| Grid dimension | 82 mm |
| Direction of pneumatic port (1) | On the side |
| Direction of pneumatic port (3,5) | On the side |
| Direction of pneumatic port (2,4) | Down |
| Direction of pneumatic port (12) | On the side |
| Direction of pneumatic port (14) | On the side |
| Exhaust (3,5) | With directional exhaust (3/5) |
| Exhaust type | Ports separated |
| Weight | 1,37 kg |

Technical data

| Part No. | Compressed air connection Output [2 / 4] | Compressed air connection Pilot connection [12] |
|------------|--|---|
| 8985041422 | G 3/4 | G 1/8 |

| Part No. | Compressed air connection Pilot control exhaust [R] |
|------------|---|
| 8985041422 | G 1/8 |

Scope of delivery incl. seal and mounting screws

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).

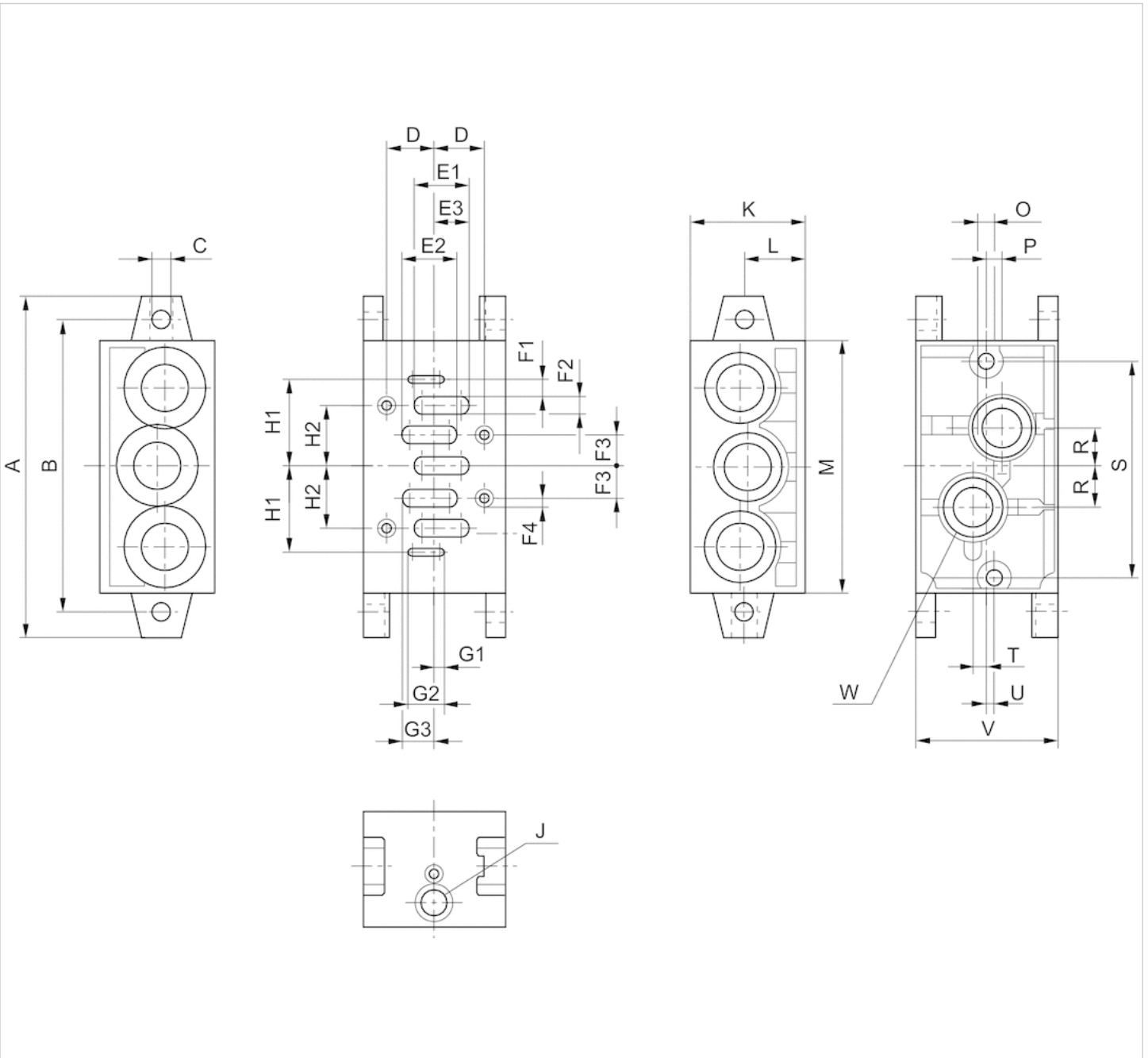
Technical information

Material

| | |
|------------|--------------------------------|
| Base plate | Die-cast aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | A | B | C | D | E1 | E2 | E3 | F1 | F2 | F3 | F4 | G1 | G2 | G3 | H1 | H2 | J | K | L | M | O | P | R | S | T | U | V |
|------------|-----|-----|----|---|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|-----|----|---|----|---|---|---|----|
| 8985041422 | 215 | 184 | 11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 55 | 30 | 142 | M8 | 8 | 26 | — | 9 | 3 | 82 |

| |
|-------|
| W |
| G 3/4 |

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 4
- type F
- Can be assembled into blocks
- Base plate principle, multiple
- Reversed pressure supply permissible



| | |
|-----------------------------------|--------------------------------|
| Standards | ISO 5599-1 |
| Compressed air connection | according to ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -25 ... 70 °C |
| Medium temperature min./max. | -25 ... 70 °C |
| Medium | Compressed air |
| Direction of pneumatic port (1) | On the side |
| Direction of pneumatic port (3,5) | On the side |
| Exhaust (3,5) | With directional exhaust (3/5) |
| Exhaust type | Ports separated |
| Weight | 1,32 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Exhaust [3 / 5] |
|------------|---|---|
| 8985041442 | G 1 | G 1 |

Scope of delivery: 2 end plates including seal and mounting screws

Technical information

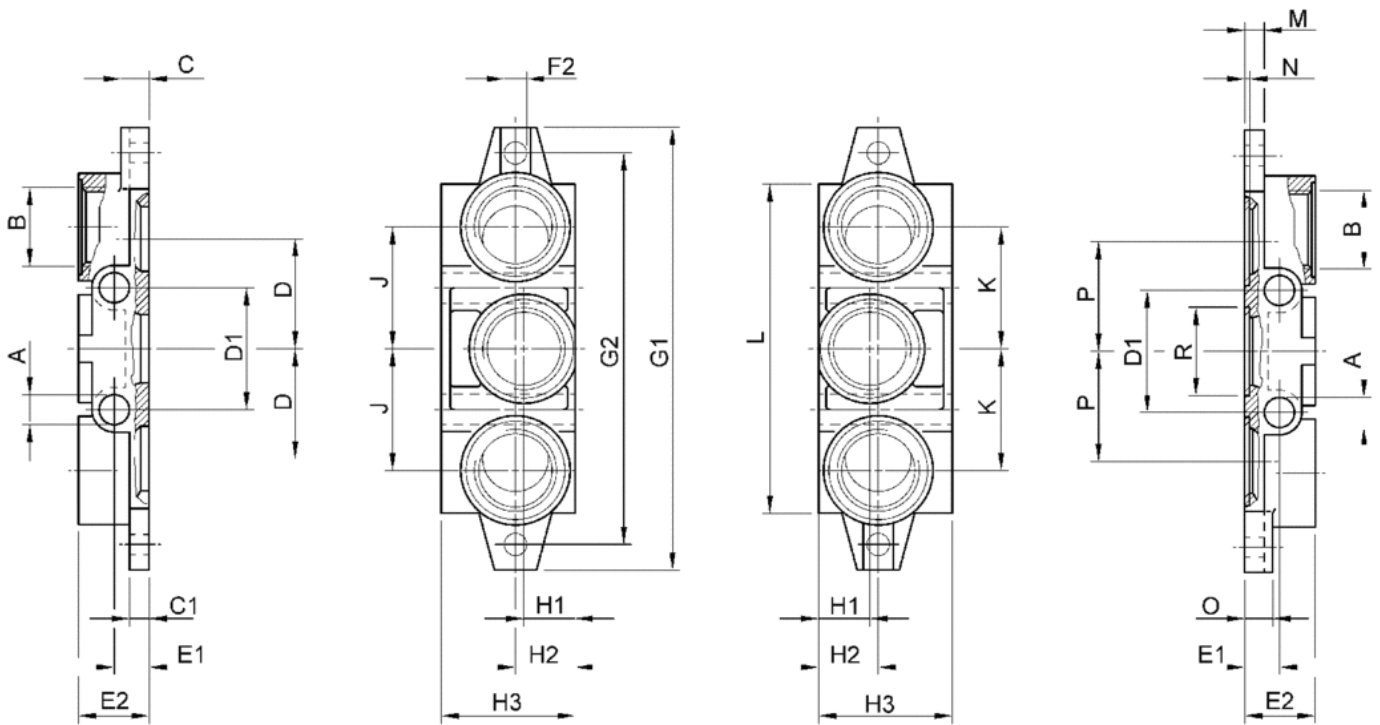
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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 | Die-cast aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | A | B | C | C1 | D | D1 | E1 | E2 | F2 | G1 | G2 | H1 | H2 | H3 | J | K | M | N | O | P | R |
|------------|----|-----|----|----|----|----|----|----|------|-----|-----|----|----|----|----|----|----|-----|----|----|--------|
| 8985041442 | 12 | G 1 | 19 | 12 | 54 | 56 | 15 | 30 | Ø 11 | 215 | 148 | 30 | 30 | 58 | 54 | 54 | 12 | 2,7 | 19 | 54 | Ø 44,1 |

Blanking plate

- standard ISO 5599-1

- Frame size ISO 4



| | |
|--------------------------------|----------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -1 ... 16 bar |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Number of valve positions max. | 1 |
| Weight | 0,27 kg |

Technical data

Part No.

5804870000

Scope of delivery incl. seal and mounting screws

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).

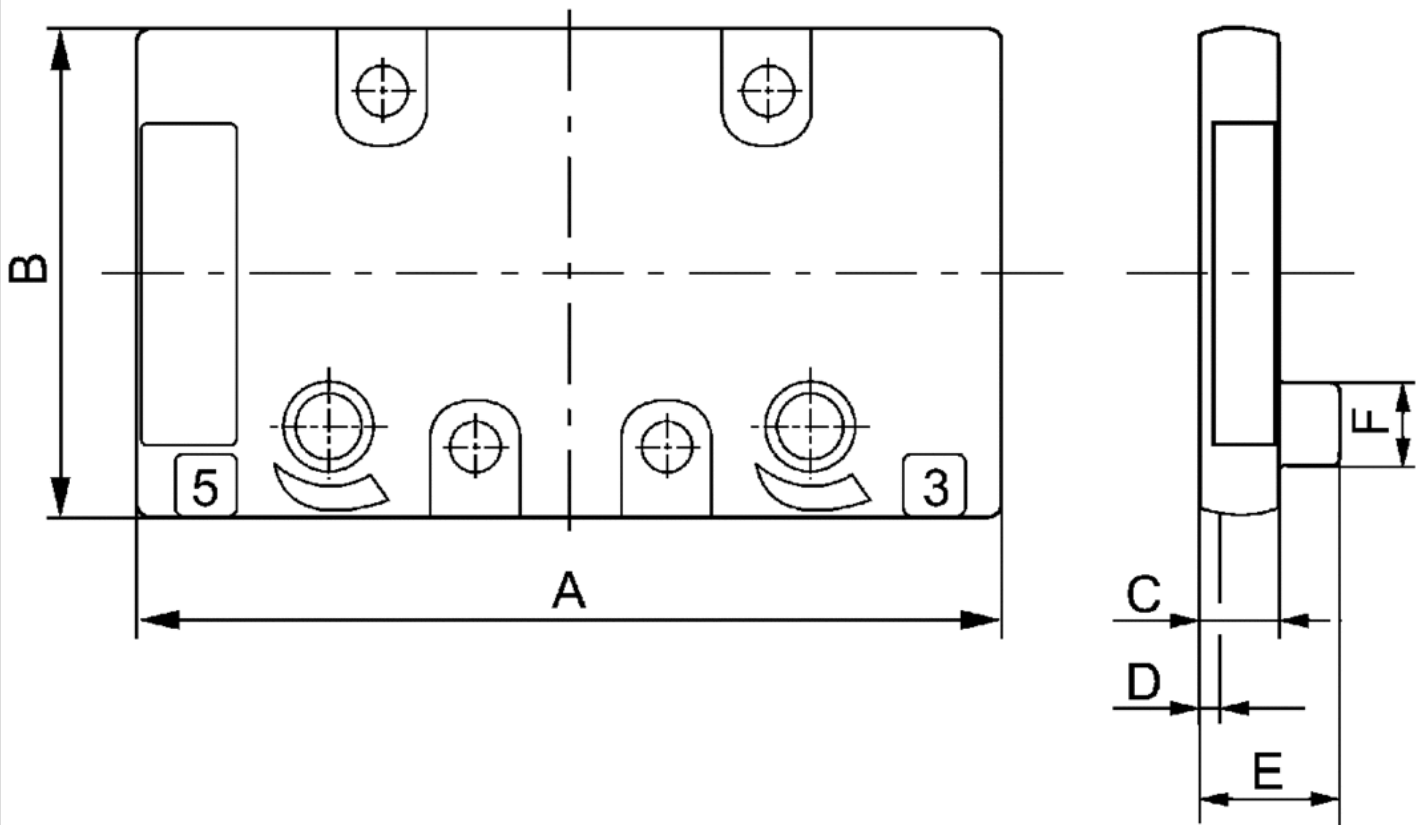
Technical information

Material

| | |
|------------|----------------------------------|
| Housing | Die-cast aluminum, black painted |
| Base plate | Die-cast aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | A | B | C | D | E | F | Weight |
|------------|-------|------|----|---|----|----|---------|
| 5804870000 | 142.5 | 74.5 | 10 | 2 | 20 | 15 | 0,27 kg |

throttle insert for flow control in 3/5

- for 581, size 4



Weight

0,1 kg

Technical data

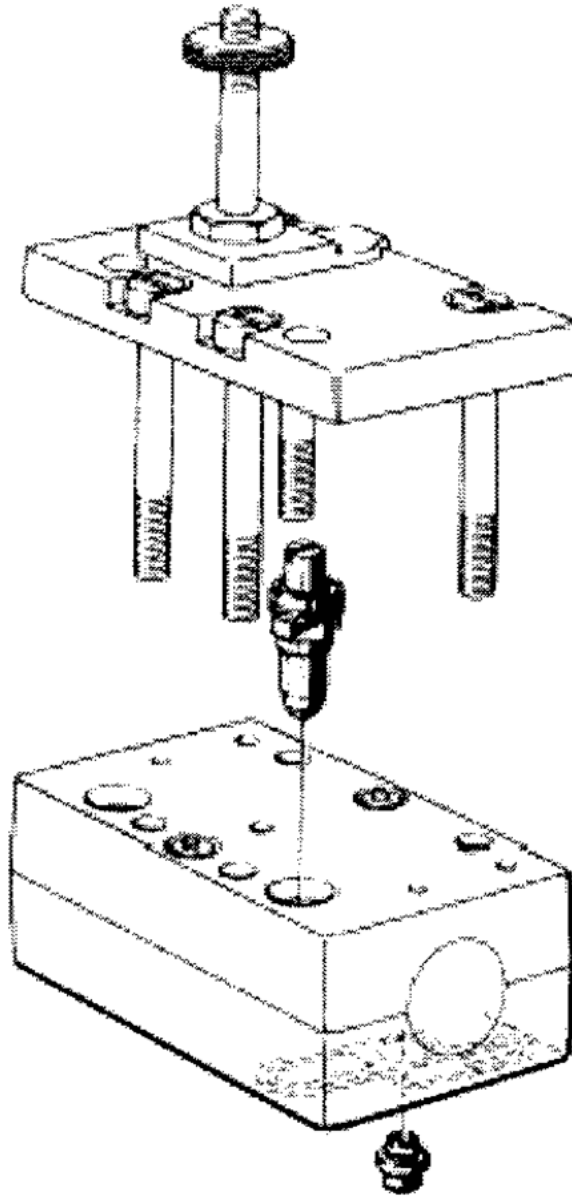
Part No.

5814001000

delivered in pairs incl. plug set

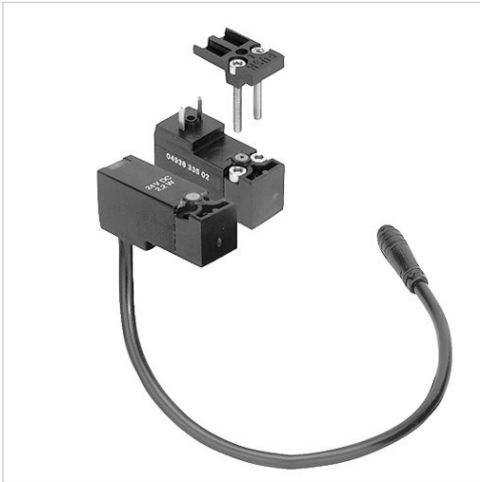
Dimensions

Dimensions



Pilot valve

- 581, Modular system
- Manual override without detent



| | |
|----------------------------------|-----------------|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Protection class with connection | See table below |
| LED status display | Green |
| Duty cycle | 100 % |
| Weight | See table below |

Technical data

| Part No. | Operational voltage DC | Power consumption DC | Cable length | Protection class |
|------------|------------------------|----------------------|--------------|------------------|
| 0493833308 | 24 V | 2,2 W | 0,2 m | IP67 |
| 0493832506 | 24 V | 2,2 W | 0,35 m | IP67 |
| 0493833103 | 24 V | 2,2 W | 0,5 m | IP67 |
| 0493838601 | 24 V | 2,2 W | 5 m | IP67 |
| 0493833502 | 24 V | 2 W | - | IP65 |

| Part No. | Power consumption | Weight | Fig. | |
|------------|-----------------------|----------|--------|----|
| 0493833308 | - | 0,05 kg | Fig. 1 | - |
| 0493832506 | - | 0,056 kg | Fig. 1 | - |
| 0493833103 | - | 0,058 kg | Fig. 1 | - |
| 0493838601 | - | 0,1 kg | Fig. 1 | - |
| 0493833502 | Low power consumption | 0,04 kg | Fig. 2 | 1) |

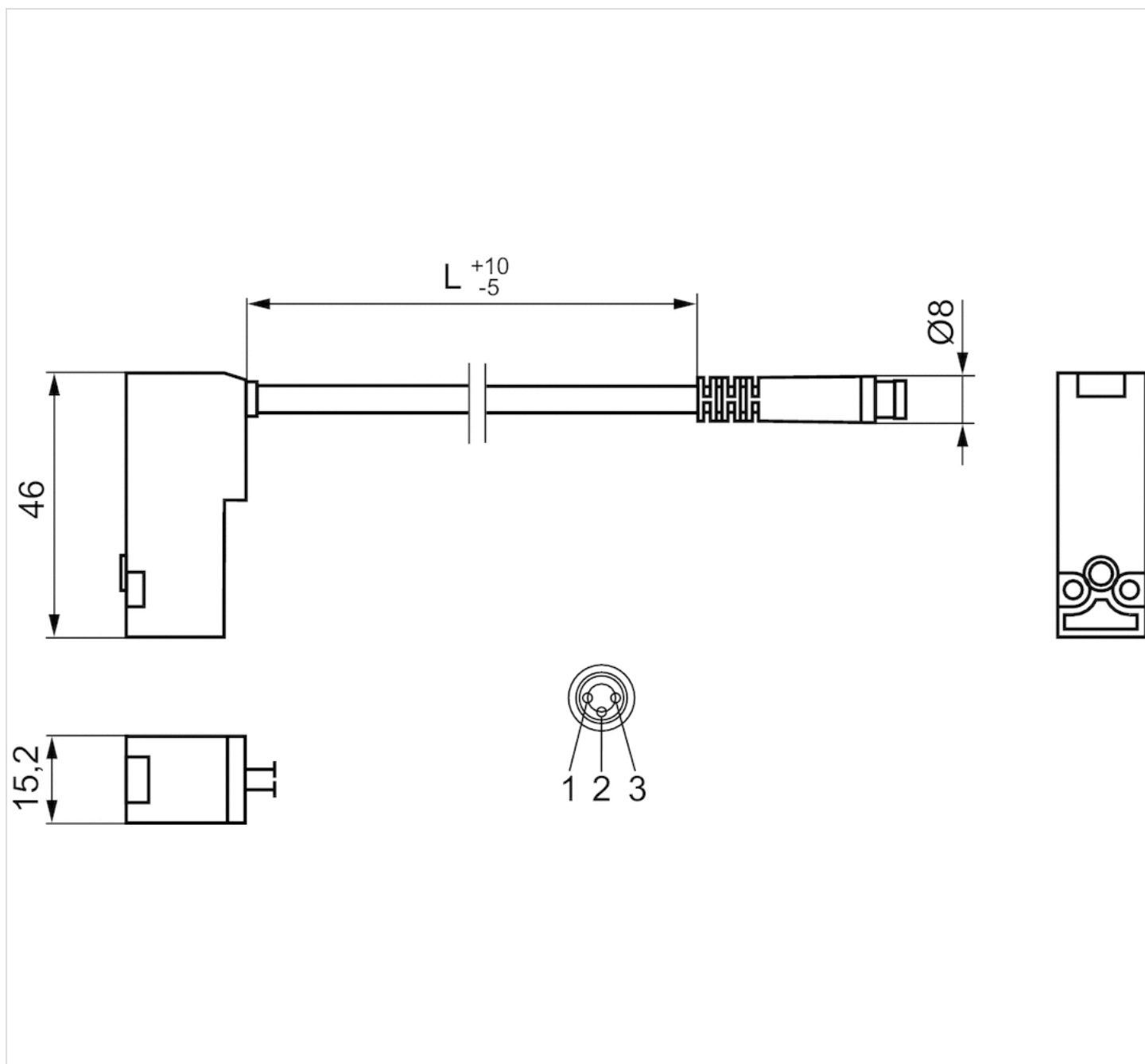
1) For valve plug connectors

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).

Dimensions

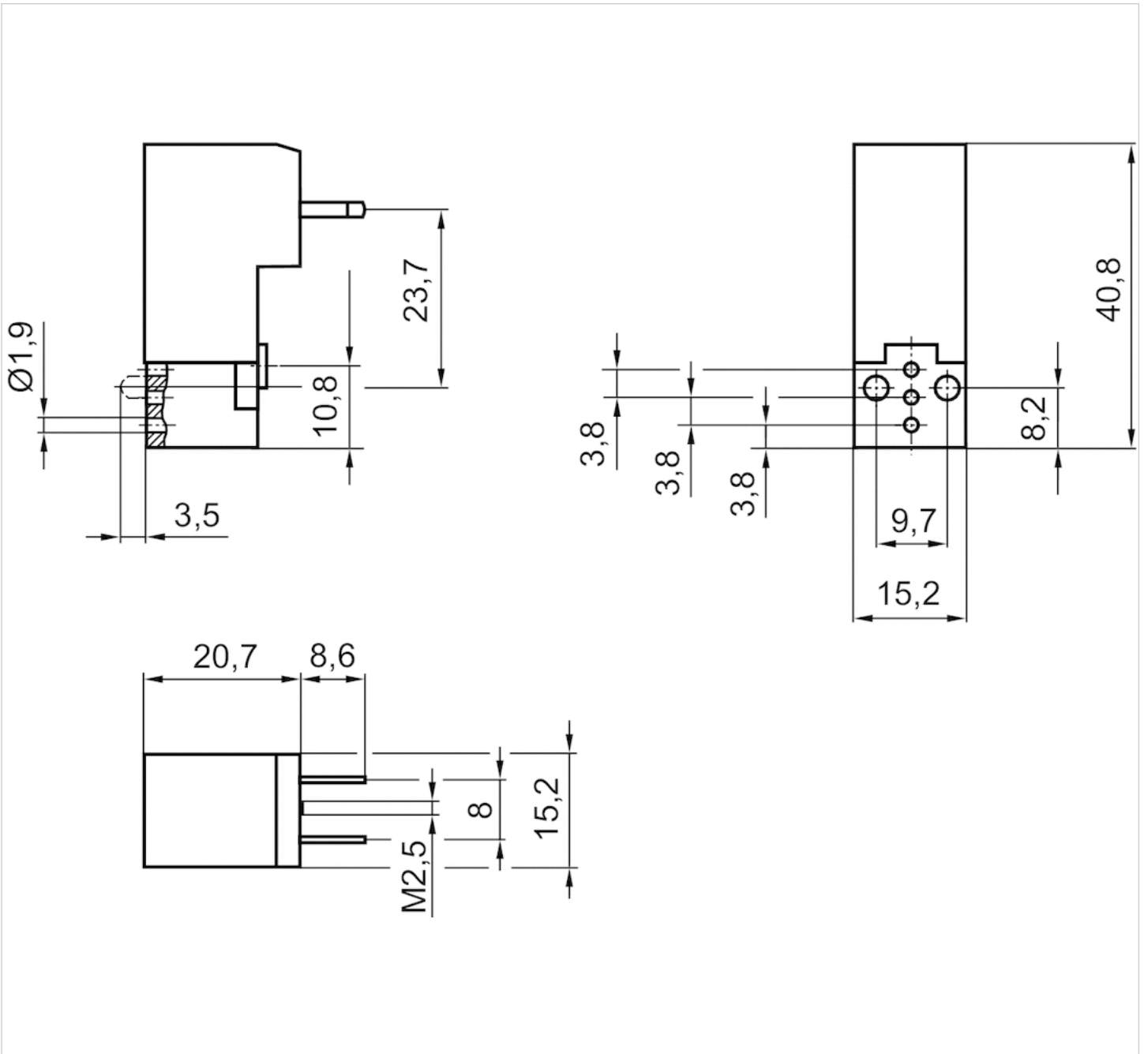
Fig. 1



Pin assignment

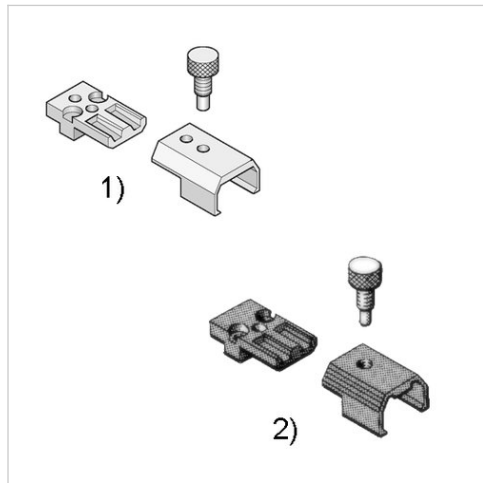
- 1) +24 V
- 2) ground
- 3) 0 V

Fig. 2



Control unit for manual override

- for 581



Weight

0,03 kg

An example configuration is illustrated.
The delivered product may thus deviate
from the illustration.

Technical data

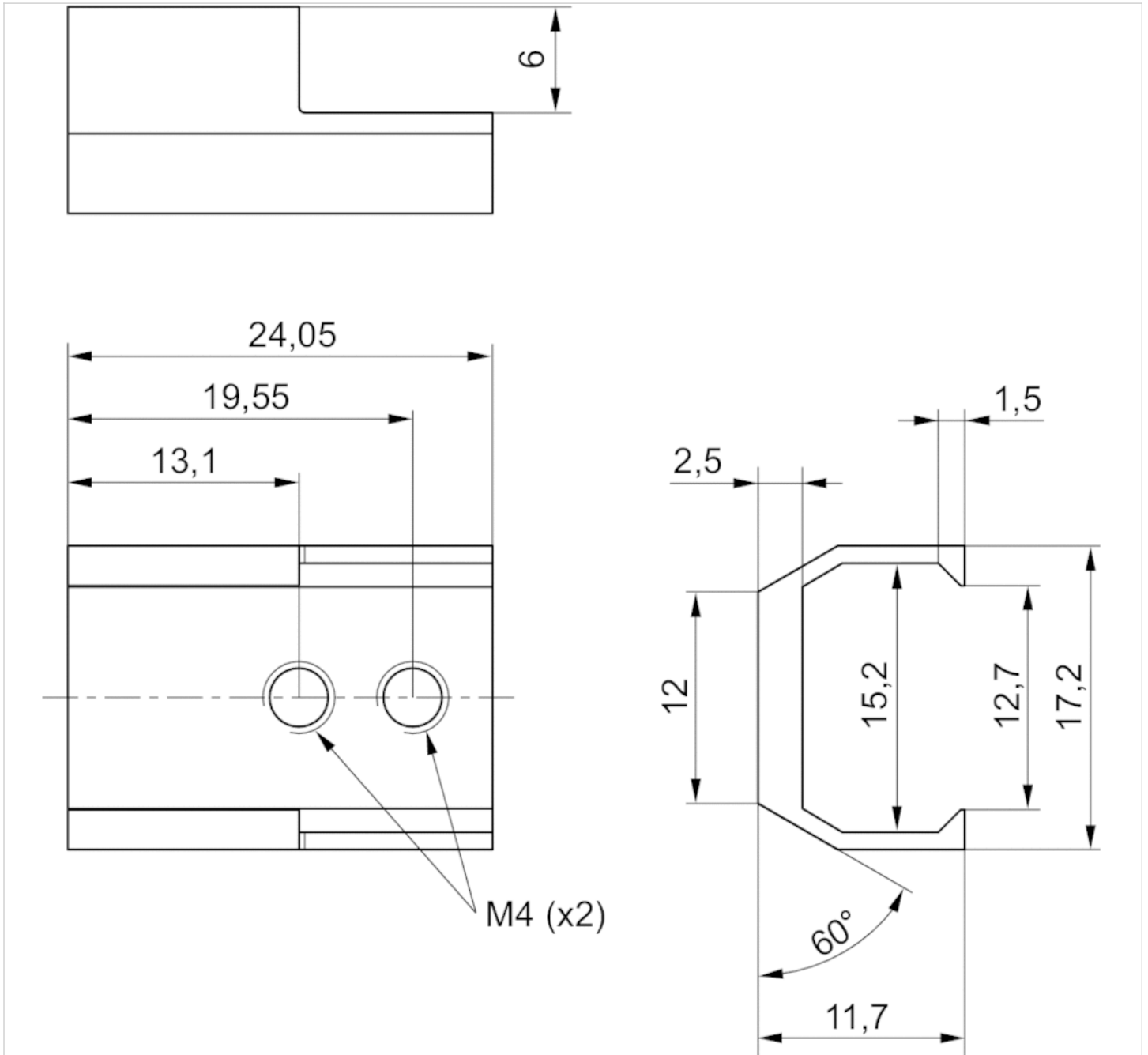
Part No.

0493835718

Version as of August 1, 2014, compatible with old applications, Version before August 1, 2014, 6 controls per set

Dimensions

Dimensions

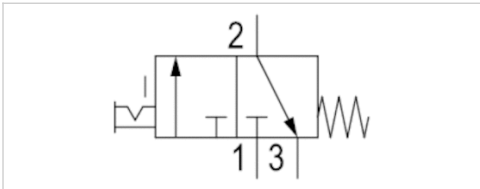


Pilot valve

- 581, Modular system
- Manual override with detent



| | |
|----------------------------------|-----------------|
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Weight | See table below |



Technical data

| Part No. | Operational voltage DC | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz |
|------------|------------------------|------------------------------|------------------------------|
| 0493818805 | 24 V | 230 V | 110 V |
| 0493818902 | 24 V | - | - |

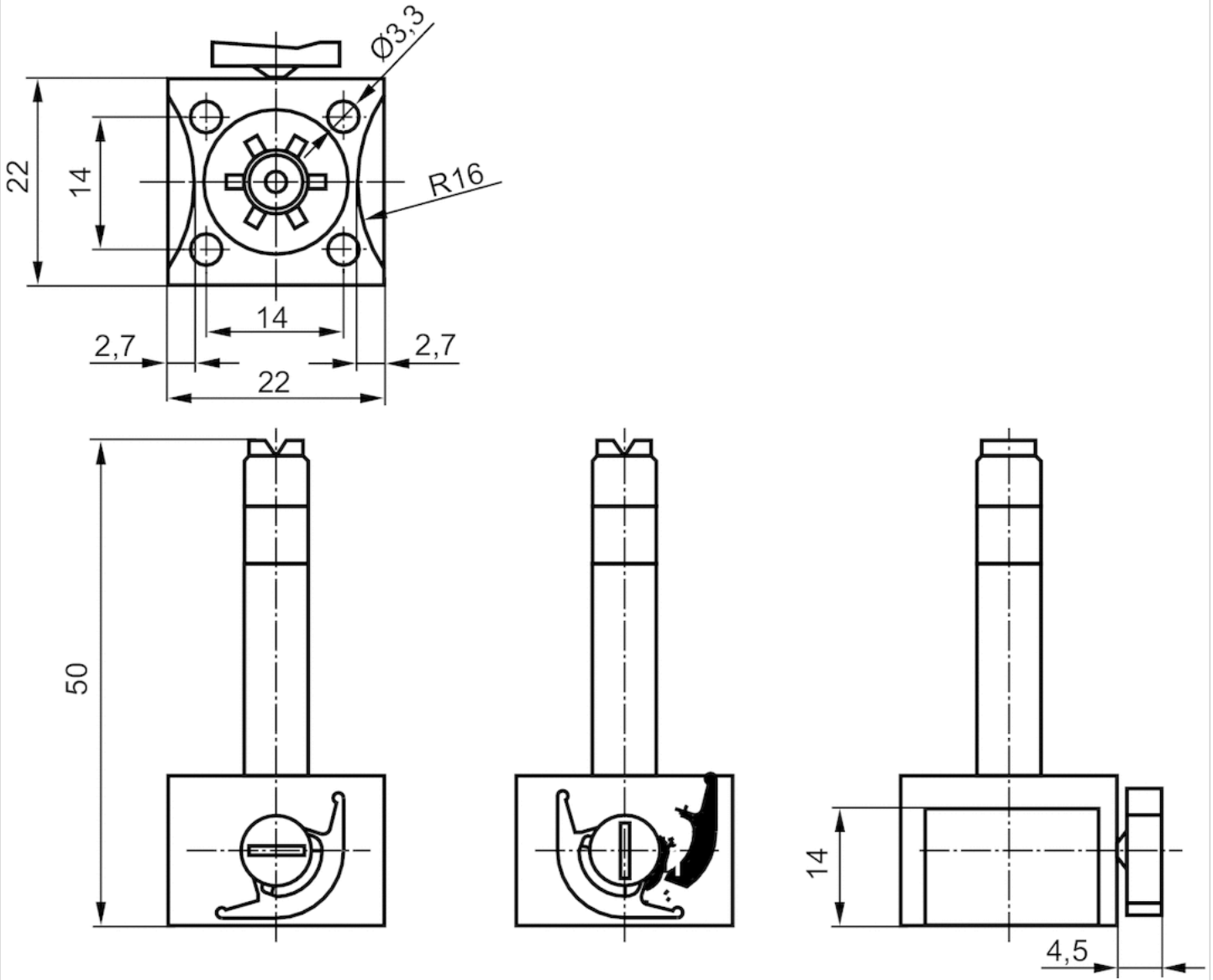
| Part No. | Power consumption DC | Power consumption | Weight |
|------------|----------------------|-----------------------|----------|
| 0493818805 | 5 W | - | 0,031 kg |
| 0493818902 | 2 W | Low power consumption | 0,03 kg |

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).

Dimensions

Dimensions



Coil, Series C01

- Form B, industry
- Coil width 22 mm
- Power consumption DC 2-5 W
- Holding power AC 8 VA
- Switch-on power AC 10 VA



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

ISO 6952
Plug, Form B, industry
50 °C
IP65

100 %
See table below

An example configuration is illustrated.
The delivered product may thus deviate
from the illustration.

Technical data

| Part No. | Operational voltage | Operational voltage | Voltage tolerance |
|------------|---------------------|---------------------|-------------------|
| | DC | AC 50 Hz | DC |
| 0498317405 | 12 V | - | - |
| 0498317502 | 24 V | - | -10% / +10% |
| 0498318800 | 24 V | - | -10% / +10% |
| 0498317618 | 48 V | - | - |
| 0498317707 | 110 V | - | -10% / +10% |
| 0498317804 | 220 V | - | -10% / +10% |
| 0498316905 | - | 24 V | - |
| 0498317006 | - | 48 V | - |
| 0498317103 | - | 110 V | - |
| 0498322506 | - | 230 V | - |

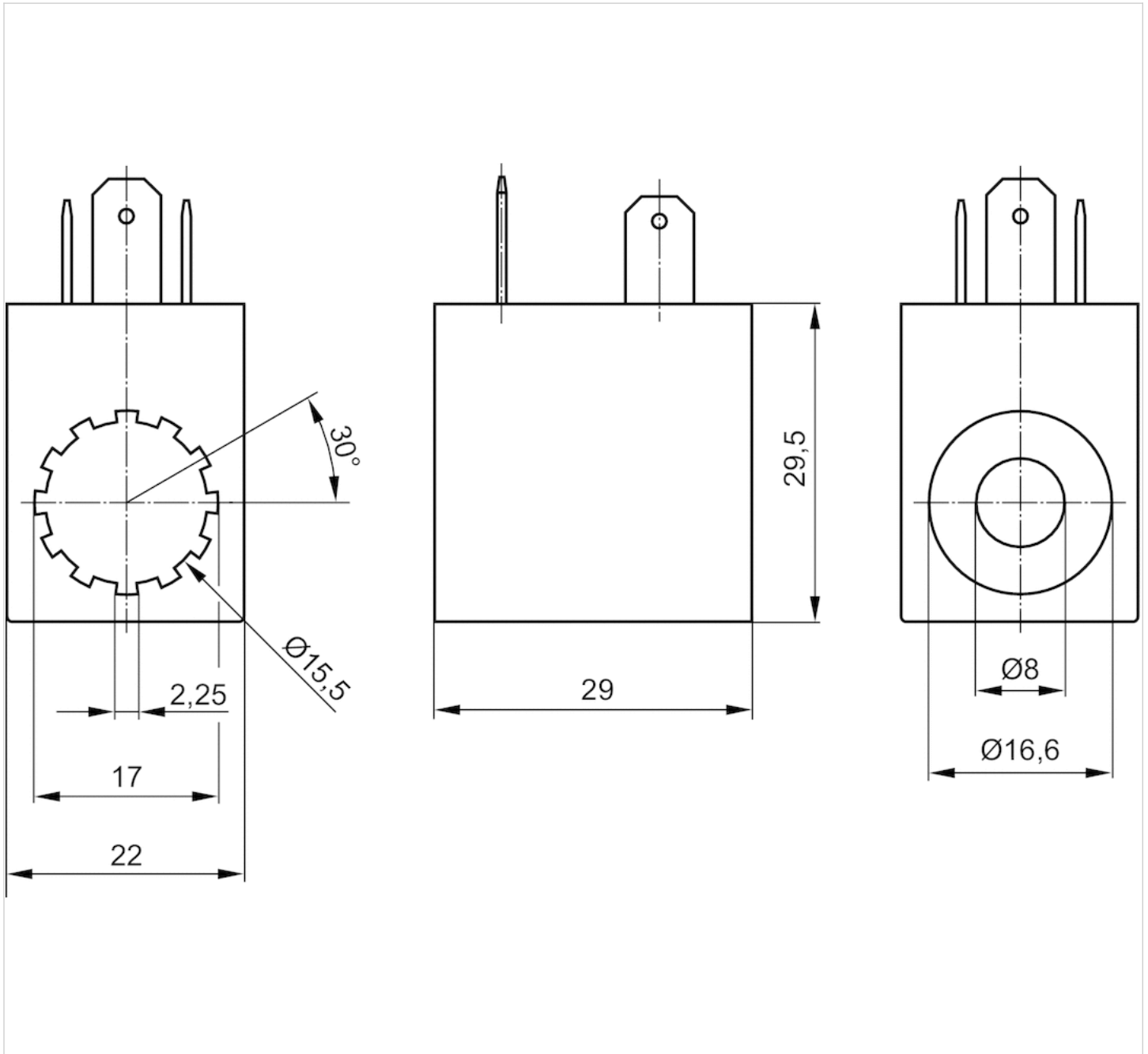
| Part No. | Voltage tolerance | Power consumption | Holding power | Switch-on power |
|------------|-------------------|-------------------|---------------|-----------------|
| | AC 50 Hz | DC | AC 50 Hz | AC 50 Hz |
| 0498317405 | - | 5 W | - | - |
| 0498317502 | - | 5 W | - | - |
| 0498318800 | - | 2 W | - | - |
| 0498317618 | - | 5 W | - | - |
| 0498317707 | - | 5 W | - | - |
| 0498317804 | - | 5 W | - | - |
| 0498316905 | -10% / +10% | - | 8 VA | 10 VA |
| 0498317006 | -10% / +10% | - | 8 VA | 10 VA |
| 0498317103 | -10% / +10% | - | 8 VA | 10 VA |
| 0498322506 | -10% / +10% | - | 8 VA | 10 VA |

| Part No. | Weight | |
|------------|----------|----|
| 0498317405 | 0,054 kg | - |
| 0498317502 | 0,051 kg | - |
| 0498318800 | 0,051 kg | 1) |
| 0498317618 | 0,054 kg | - |
| 0498317707 | 0,054 kg | - |
| 0498317804 | 0,054 kg | - |
| 0498316905 | 0,054 kg | - |
| 0498317006 | 0,054 kg | - |
| 0498317103 | 0,051 kg | - |
| 0498322506 | 0,054 kg | - |

1) Low power consumption

Dimensions

Dimensions



Pilot valve

- CNOMO / NFE 49-003-1

- 581, Modular system



Standards

Working pressure min./max.

Ambient temperature min./max.

Medium

Protection class with connection

Duty cycle

Weight

CNOMO / NFE 49-003-1

See table below

-10 ... 50 °C

Compressed air



















IP65

100 %

See table below

An example configuration is illustrated.
The delivered product may thus deviate
from the illustration.

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5428110080 |  |  | - | 230 V |
| 5420890020 |  |  | 24 V | - |
| 5420850020 |  | - | 24 V | - |
| 5428150080 |  | - | - | 230 V |
| 5420890030 |  |  | 48 V | - |
| 5420890070 |  |  | 110 V | - |
| 5420890080 |  |  | 220 V | - |
| 5428110020 |  |  | - | 24 V |
| 5428110040 |  |  | - | 48 V |
| 5428110070 |  |  | - | 110 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5428110080 | - | -20% / +10% | - | 8 VA |
| 5420890020 | -10% / +10% | - | 2 W | - |
| 5420850020 | -10% / +10% | - | 6,7 W | - |
| 5428150080 | - | -20% / +10% | - | 8 VA |
| 5420890030 | -10% / +10% | - | 2 W | - |
| 5420890070 | -10% / +10% | - | 2 W | - |
| 5420890080 | -10% / +10% | - | 2 W | - |
| 5428110020 | - | -20% / +10% | - | 8 VA |
| 5428110040 | - | -20% / +10% | - | 8 VA |
| 5428110070 | - | -20% / +10% | - | 8 VA |

| Part No. | Switch-on power AC 50 Hz | Working pressure min./max. | Power consumption |
|------------|--------------------------|----------------------------|-------------------|
| 5428110080 | 10 VA | 0 ... 10 bar | - |

| Part No. | Switch-on power AC 50 Hz | Working pressure min./max. | Power consumption |
|------------|-----------------------------|----------------------------|-----------------------|
| 5420890020 | - | 0 ... 10 bar | Low power consumption |
| 5420850020 | - | 0 ... 16 bar | - |
| 5428150080 | 10 VA | 0 ... 16 bar | - |
| 5420890030 | - | 0 ... 10 bar | Low power consumption |
| 5420890070 | - | 0 ... 10 bar | Low power consumption |
| 5420890080 | - | 0 ... 10 bar | Low power consumption |
| 5428110020 | 10 VA | 0 ... 10 bar | - |
| 5428110040 | 10 VA | 0 ... 10 bar | - |
| 5428110070 | 10 VA | 0 ... 10 bar | - |

| Part No. | Weight |
|------------|----------|
| 5428110080 | 0,17 kg |
| 5420890020 | 0,17 kg |
| 5420850020 | 0,206 kg |
| 5428150080 | 0,162 kg |
| 5420890030 | 0,17 kg |
| 5420890070 | 0,17 kg |
| 5420890080 | 0,17 kg |
| 5428110020 | 0,17 kg |
| 5428110040 | 0,17 kg |
| 5428110070 | 0,17 kg |

MO = Manual override, pilot valve 30x22 mm with CNOMO porting configuration

Technical information

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

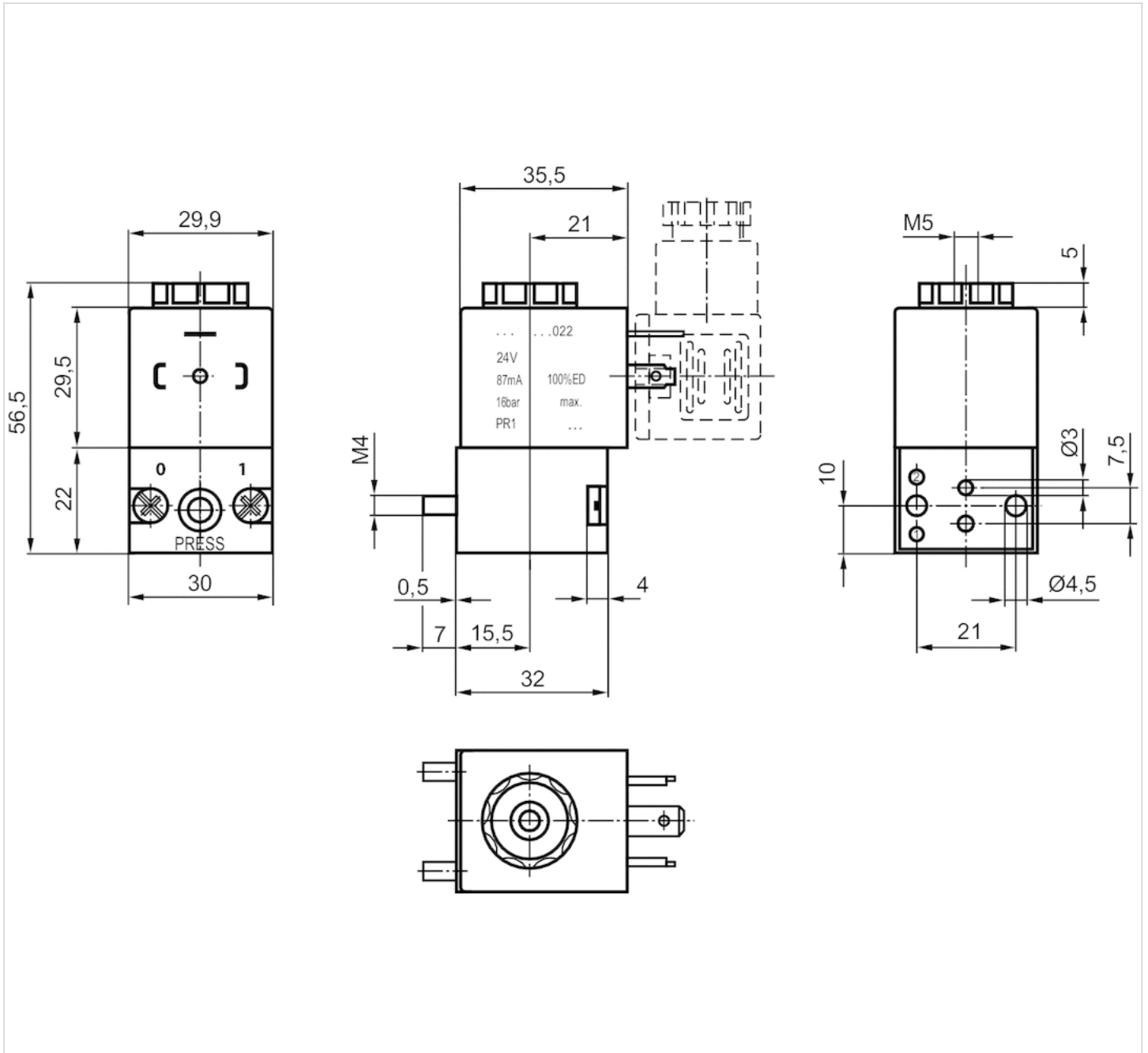
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

Dimensions

Dimensions



































3/2-directional valve, Series DO30

- 3/2
- Pilot valve width : 30 mm
- Plate valve with pipe connection
- Compressed air connection output : CNOMO
- Electrical connection : Plug, EN 175301-803, form A
- Manual override : without detent with detent
- With spring return



| | |
|----------------------------------|---------------------------|
| Type | Poppet valve |
| Activation | Electrically |
| Sealing principle | Soft sealing |
| Standards | CNOMO / NFE 49-003-1 |
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow 1 ▶ 2 | See table below |
| Nominal flow 2 ▶ 3 | See table below |
| Protection class with connection | IP65 |
| Compatibility index | See table below |
| Duty cycle | 100 % |
| Mounting on manifold strip | P-strip |
| mounting screws | M4 |
| Weight | See table below |

Technical data

| Part No. | | MO | Compressed air connection | |
|------------|--|--|---------------------------|--------|
| | | | Input | Output |
| 0820019527 |  |  | CNOMO | CNOMO |
| 0820019526 |  |  | CNOMO | CNOMO |
| 0820019529 |  |  | CNOMO | CNOMO |
| 0820019528 |  |  | CNOMO | CNOMO |
| 0820019525 |  |  | CNOMO | CNOMO |
| 0820019985 |  |  | CNOMO | CNOMO |
| 0820019986 |  |  | CNOMO | CNOMO |
| 0820019987 |  |  | M5 | CNOMO |
| 0820019982 |  |  | M5 | CNOMO |
| 0820019502 |  |  | CNOMO | CNOMO |
| 0820019501 |  |  | CNOMO | CNOMO |
| 0820019504 |  |  | CNOMO | CNOMO |
| 0820019503 |  |  | CNOMO | CNOMO |
| 0820019500 |  |  | CNOMO | CNOMO |
| 0820019980 |  |  | CNOMO | CNOMO |
| 0820019981 |  |  | CNOMO | CNOMO |

| Part No. | Compressed air connection | | Operational voltage | |
|------------|---------------------------|--|---------------------|----------|
| | Exhaust | | DC | AC 50 Hz |
| 0820019527 | M5 | | - | 24 V |
| 0820019526 | M5 | | 24 V | - |
| 0820019529 | M5 | | 24 V | - |
| 0820019528 | M5 | | - | - |
| 0820019525 | M5 | | - | 230 V |
| 0820019985 | M5 | | - | - |
| 0820019986 | M5 | | - | - |
| 0820019987 | CNOMO | | - | - |
| 0820019982 | CNOMO | | - | - |
| 0820019502 | M5 | | - | 24 V |
| 0820019501 | M5 | | 24 V | - |
| 0820019504 | M5 | | 24 V | - |
| 0820019503 | M5 | | - | - |
| 0820019500 | M5 | | - | 230 V |
| 0820019980 | M5 | | - | - |
| 0820019981 | M5 | | - | - |

| Part No. | Operational voltage | | Voltage tolerance | |
|------------|---------------------|--|-------------------|-------------|
| | AC 60 Hz | | AC 50 Hz | AC 60 Hz |
| 0820019527 | - | | -10% / +10% | - |
| 0820019526 | - | | - | - |
| 0820019529 | - | | - | - |
| 0820019528 | 110 V | | - | -10% / +10% |
| 0820019525 | - | | -10% / +10% | - |
| 0820019985 | - | | - | - |
| 0820019986 | - | | - | - |

| Part No. | Operational voltage | Voltage tolerance | |
|------------|---------------------|-------------------|-------------|
| | | AC 50 Hz | AC 60 Hz |
| 0820019987 | - | - | - |
| 0820019982 | - | - | - |
| 0820019502 | - | -10% / +10% | - |
| 0820019501 | - | - | - |
| 0820019504 | - | - | - |
| 0820019503 | 110 V | - | -10% / +10% |
| 0820019500 | - | -10% / +10% | - |
| 0820019980 | - | - | - |
| 0820019981 | - | - | - |

| Part No. | Power consumption | Holding power | Holding power | Switch-on power |
|------------|-------------------|---------------|---------------|-----------------|
| | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz |
| 0820019527 | - | 8 VA | - | 11,5 VA |
| 0820019526 | 4,5 W | - | - | - |
| 0820019529 | 2,7 W | - | - | - |
| 0820019528 | - | - | 5,6 VA | - |
| 0820019525 | - | 9,1 VA | - | 12,6 VA |
| 0820019985 | - | - | - | - |
| 0820019986 | - | - | - | - |
| 0820019987 | - | - | - | - |
| 0820019982 | - | - | - | - |
| 0820019502 | - | 8 VA | - | 11,5 VA |
| 0820019501 | 4,5 W | - | - | - |
| 0820019504 | 2,7 W | - | - | - |
| 0820019503 | - | - | 5,6 VA | - |
| 0820019500 | - | 9,1 VA | - | 12,6 VA |
| 0820019980 | - | - | - | - |
| 0820019981 | - | - | - | - |

| Part No. | Switch-on power | Nominal flow 1 ▶ 2 | Nominal flow 2 ▶ 3 | Compatibility index |
|------------|-----------------|--------------------|--------------------|---------------------|
| | AC 60 Hz | | | |
| 0820019527 | - | 68 l/min | 90 l/min | 15 |
| 0820019526 | - | 68 l/min | 90 l/min | 15 |
| 0820019529 | - | 54 l/min | 80 l/min | 14 |
| 0820019528 | 9,5 VA | 68 l/min | 90 l/min | 15 |
| 0820019525 | - | 68 l/min | 90 l/min | 15 |
| 0820019985 | - | 68 l/min | 90 l/min | 15 |
| 0820019986 | - | 54 l/min | 80 l/min | 14 |
| 0820019987 | - | 72 l/min | 105 l/min | 15 |
| 0820019982 | - | 72 l/min | 105 l/min | 15 |
| 0820019502 | - | 65 l/min | 80 l/min | 15 |
| 0820019501 | - | 65 l/min | 80 l/min | 15 |
| 0820019504 | - | 54 l/min | 80 l/min | 14 |
| 0820019503 | 9,5 VA | 65 l/min | 80 l/min | 15 |
| 0820019500 | - | 65 l/min | 80 l/min | 15 |
| 0820019980 | - | 65 l/min | 80 l/min | 15 |
| 0820019981 | - | 54 l/min | 80 l/min | 14 |

| Part No. | basic valve with electrical connector | Power consumption | ATEX |
|------------|---------------------------------------|--------------------------|-------------------|
| 0820019527 | - | Higher voltage tolerance | - |
| 0820019526 | - | Higher voltage tolerance | - |
| 0820019529 | - | Low power consumption | - |
| 0820019528 | - | Higher voltage tolerance | - |
| 0820019525 | - | Higher voltage tolerance | - |
| 0820019985 | Basic valve without coil | Higher voltage tolerance | suitable for ATEX |
| 0820019986 | Basic valve without coil | Low power consumption | suitable for ATEX |
| 0820019987 | Basic valve without coil | Higher voltage tolerance | suitable for ATEX |
| 0820019982 | Basic valve without coil | Higher voltage tolerance | suitable for ATEX |
| 0820019502 | - | Higher voltage tolerance | - |
| 0820019501 | - | Higher voltage tolerance | - |
| 0820019504 | - | Low power consumption | - |
| 0820019503 | - | Higher voltage tolerance | - |
| 0820019500 | - | Higher voltage tolerance | - |
| 0820019980 | Basic valve without coil | Higher voltage tolerance | suitable for ATEX |
| 0820019981 | Basic valve without coil | Low power consumption | suitable for ATEX |

| Part No. | Weight | |
|------------|---------|----|
| 0820019527 | 0,16 kg | - |
| 0820019526 | 0,16 kg | - |
| 0820019529 | 0,16 kg | - |
| 0820019528 | 0,16 kg | - |
| 0820019525 | 0,16 kg | - |
| 0820019985 | 0,06 kg | 1) |
| 0820019986 | 0,07 kg | - |
| 0820019987 | 0,08 kg | - |
| 0820019982 | 0,06 kg | - |
| 0820019502 | 0,16 kg | - |
| 0820019501 | 0,16 kg | - |
| 0820019504 | 0,16 kg | - |
| 0820019503 | 0,16 kg | - |
| 0820019500 | 0,16 kg | - |
| 0820019980 | 0,06 kg | 1) |
| 0820019981 | 0,06 kg | - |

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

1) pilot valve without coil

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.

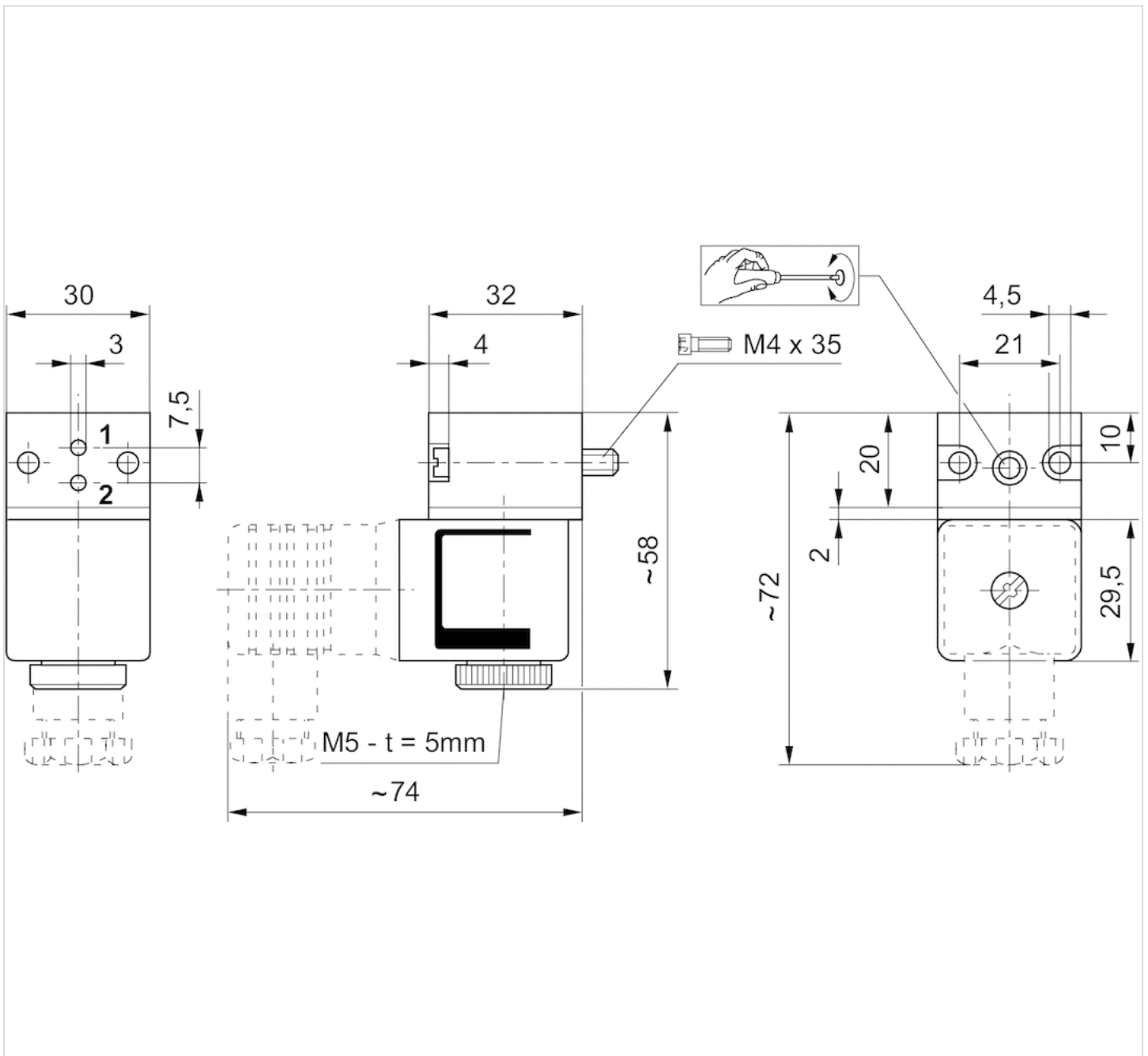
Technical information

Material

| | |
|---------|------------------|
| Housing | Plastic |
| Seals | Fluorocaoutchouc |

Dimensions

Dimensions



t = depth

3/2-directional valve

- Manual override : without detent



Activation

Working pressure min./max.

Ambient temperature min./max.

Medium

Weight

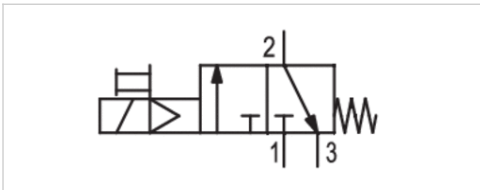
Electrically

0 ... 16 bar

-10 ... 50 °C

Compressed air Compressed air

0,15 kg



Technical data

| Part No. | Operational voltage | | Voltage tolerance |
|------------|---------------------|----------|-------------------|
| | DC | AC 50 Hz | DC |
| 5420800390 | 24 V | 42 V | -10% / +10% |
| 5428200380 | - | 230 V | - |
| 5428200370 | - | 110 V | - |

| Part No. | Voltage tolerance | Power consumption | Holding power | Switch-on power |
|------------|-------------------|-------------------|---------------|-----------------|
| | AC 50 Hz | DC | AC 50 Hz | AC 50 Hz |
| 5420800390 | -20% / +10% | 6,7 W | - | - |
| 5428200380 | -20% / +10% | - | 8 VA | 10 VA |
| 5428200370 | -20% / +10% | - | 8 VA | 10 VA |

Nominal flow Q_n with secondary pressure 6 bar at $\Delta p = 1$ bar

Technical information

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

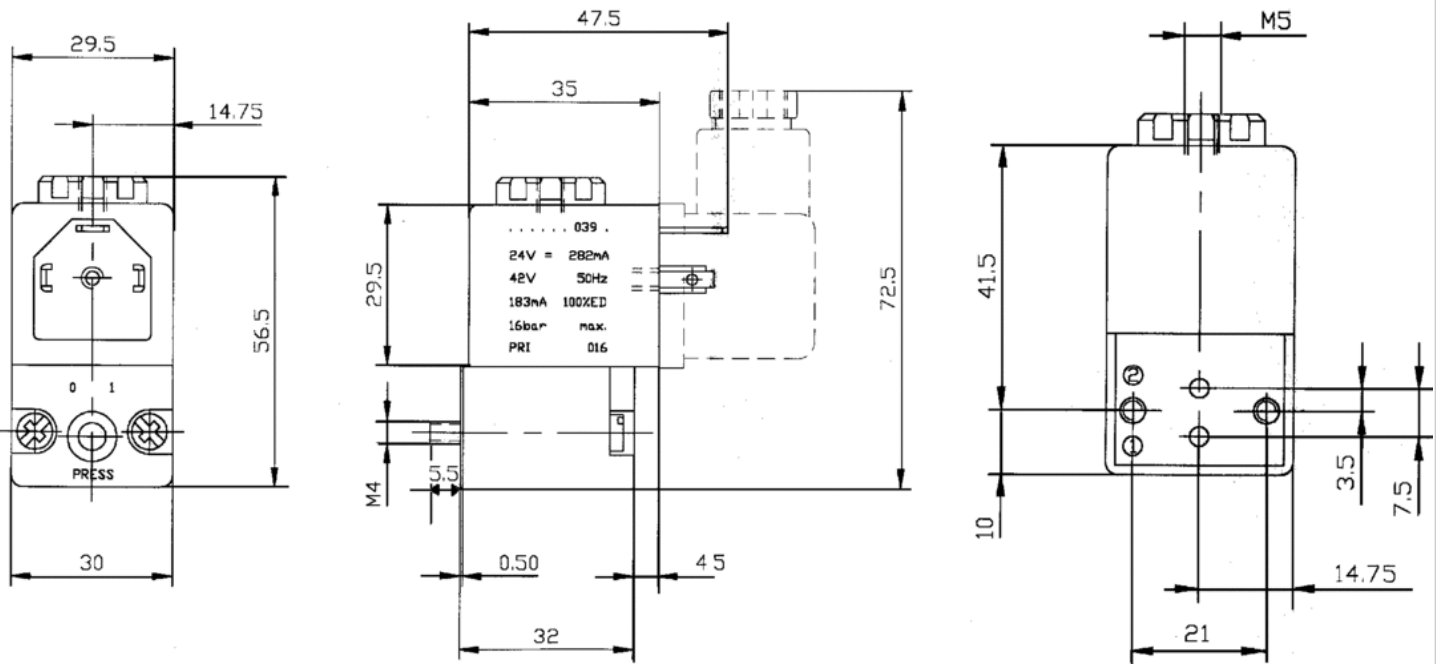
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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

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

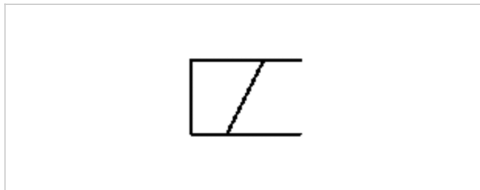
Dimensions

Dimensions



Coil, Series C01

- 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. | Operational voltage | | Operational voltage |
|------------|---------------------|----------|---------------------|
| | DC | AC 50 Hz | AC 60 Hz |
| 1827414297 | - | 230 V | 230 V |
| 1827414298 | - | 230 V | 230 V |
| 1827414299 | - | 110 V | 110 V |
| 1827414301 | - | 24 V | 24 V |
| 1827414303 | 24 V | - | - |
| 1827414304 | 24 V | - | - |

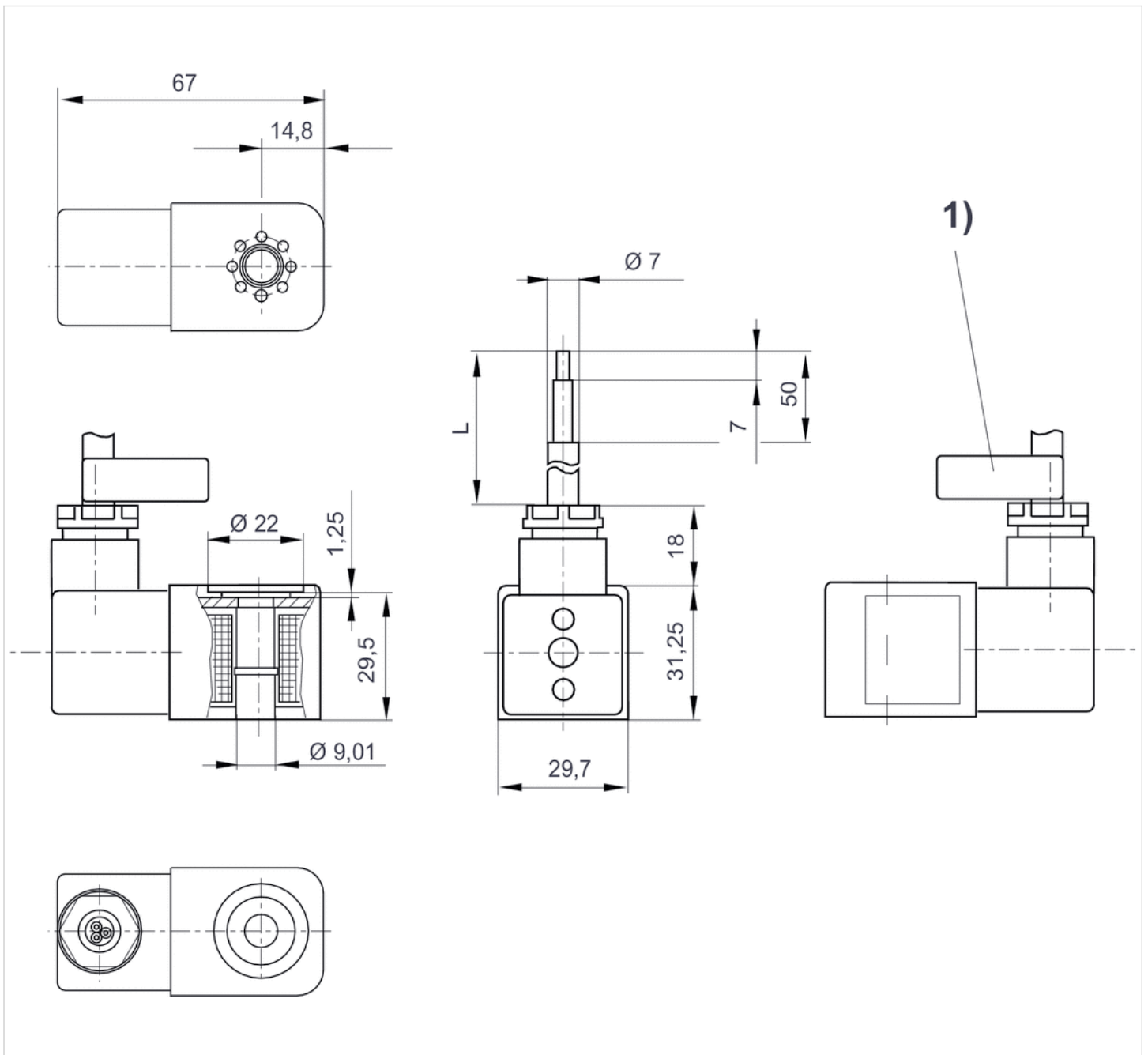
| Part No. | Voltage tolerance | | Power consumption | Holding power |
|------------|-------------------|-------------|-------------------|---------------|
| | DC | AC 50 Hz | DC | AC 50 Hz |
| 1827414297 | - | -10% / +10% | - | 3 VA |
| 1827414298 | - | -10% / +10% | - | 3 VA |
| 1827414299 | - | -10%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

| Part No. | Switch-on power | | Cable length | Weight |
|------------|-----------------|--|--------------|---------|
| | AC 50 Hz | | | |
| 1827414297 | 3,1 VA | | 3 m | 0,38 kg |

| Part No. | Switch-on power | Cable length | Weight |
|------------|-----------------|--------------|---------|
| | AC 50 Hz | | |
| 1827414298 | 3,1 VA | 10 m | 0,91 kg |
| 1827414299 | 3 VA | 3 m | 0,38 kg |
| 1827414301 | 3 VA | 3 m | 0,38 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

Valve plug connector, series CON-VP

- Socket, 2+E, angled, 90° Socket, 3+E, angled, 90°

- EN 175301-803








- unshielded

- with LED Yellow Red Green green/red



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

Technical data

| Part No. | | Electrical connection | Operational voltage | Max. current |
|------------|---|-----------------------|---------------------|--------------|
| | | 1 | | |
| 1834484048 |  | Socket 2+E angled 90° | - | 10 A |
| 1834484059 |  | Socket 3+E angled 90° | - | 10 A |
| 1834484101 |  | Socket 2+E angled 90° | 24 V AC/DC | - |
| 1834484102 |  | Socket 2+E angled 90° | 110 V AC | - |
| 1834484103 |  | Socket 2+E angled 90° | 230 V AC | - |
| 8941016112 |  | Socket 2+E angled 90° | 230 V AC | - |
| 8941012462 |  | Socket 3+E angled 90° | 24 V DC | 8 A |

| Part No. | Protective circuit | Contact assignment | LED status display | suitable cable-Ø min./max |
|------------|--------------------|--------------------|--------------------|---------------------------|
| 1834484048 | - | 2+E | - | 6 / 8 mm |
| 1834484059 | - | 3+E | - | 6 / 8 mm |
| 1834484101 | Z-diode | 2+E | Yellow | 6 / 8 mm |
| 1834484102 | Varistor | 2+E | Red | 6 / 8 mm |
| 1834484103 | Varistor | 2+E | Red | 6 / 8 mm |
| 8941016112 | Varistor | 2+E | Green | 6 / 10 mm |
| 8941012462 | - | 3+E | green/red | 4,5 / 11 mm |

| Part No. | Seal | Weight | |
|------------|---------------------------------|----------|----|
| 1834484048 | caoutchouc/butadiene caoutchouc | 0,03 kg | 1) |
| 1834484059 | caoutchouc/butadiene caoutchouc | 0,03 kg | 1) |
| 1834484101 | Silicone caoutchouc | 0,03 kg | 2) |
| 1834484102 | caoutchouc/butadiene caoutchouc | 0,03 kg | 1) |
| 1834484103 | Silicone caoutchouc | 0,025 kg | 1) |
| 8941016112 | caoutchouc/butadiene caoutchouc | 0,03 kg | 1) |
| 8941012462 | caoutchouc/butadiene caoutchouc | 0,03 kg | 2) |

- 1) Profile seal
- 2) Flat gasket

Technical information

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

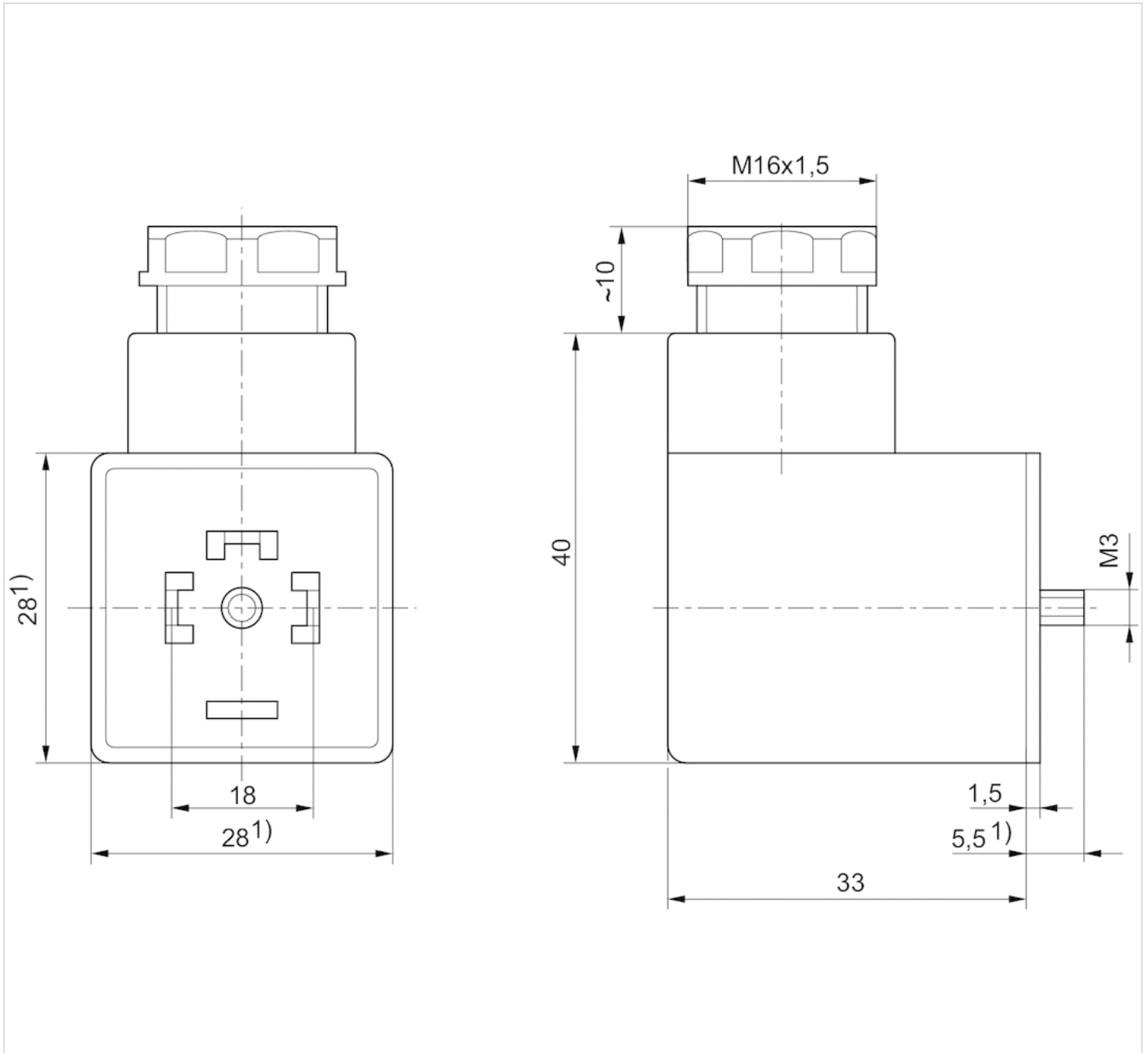
Technical information

Material

| | |
|-------|---|
| Seals | caoutchouc/butadiene caoutchouc Silicone caoutchouc |
|-------|---|

Dimensions

Dimensions



1) Max.

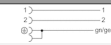


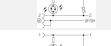
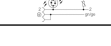
Valve plug connector, series CON-VP

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



| | |
|----------------------------------|----------------------|
| Ambient temperature min./max. | -20 ... 80 °C |
| Operational voltage | See table below |
| Protection class | IP67 |
| Wire cross-section | 0,75 mm ² |
| Mounting screw tightening torque | 0,4 Nm |
| Weight | See table below |

Technical data

| Part No. | | Operational voltage | 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

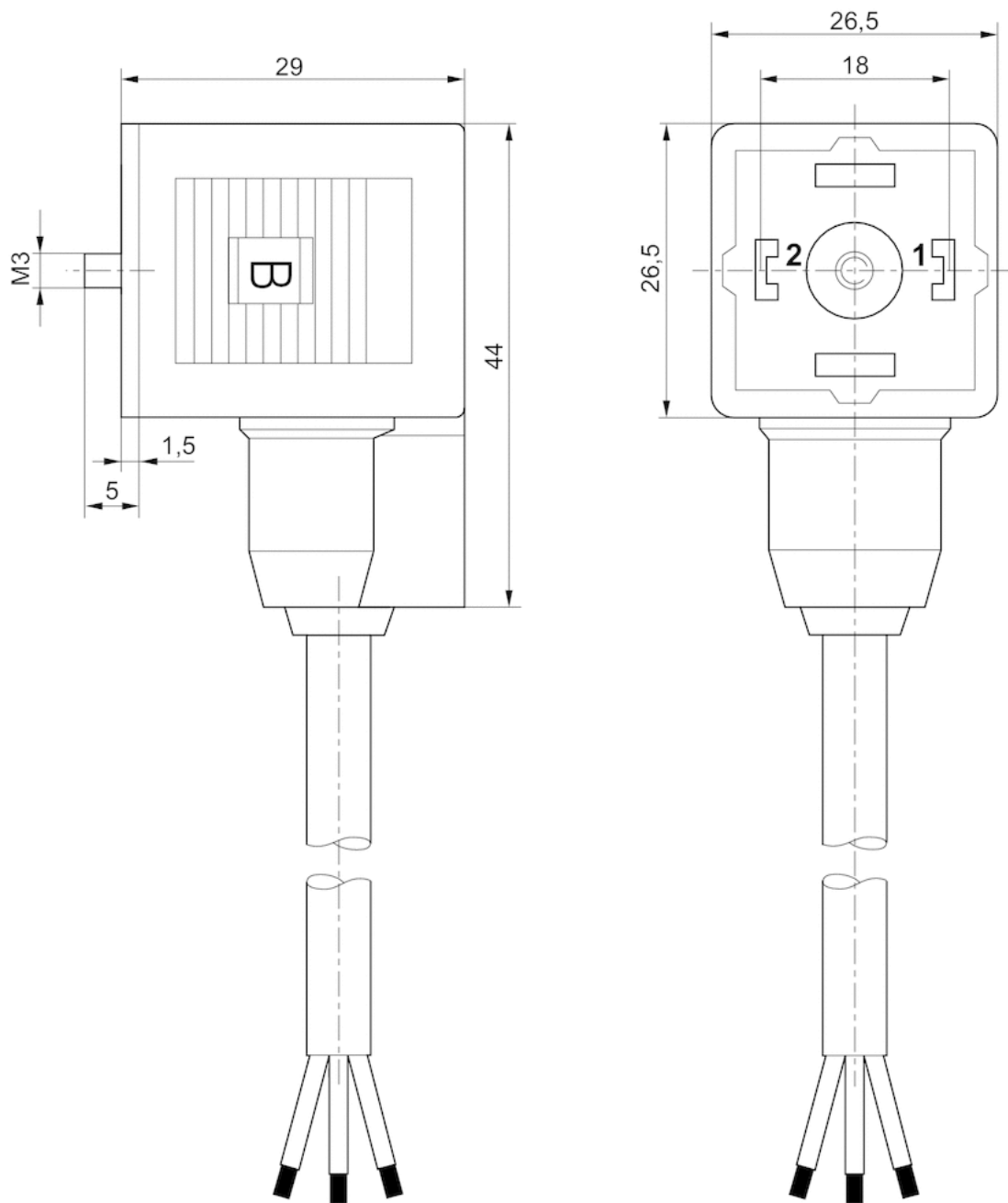
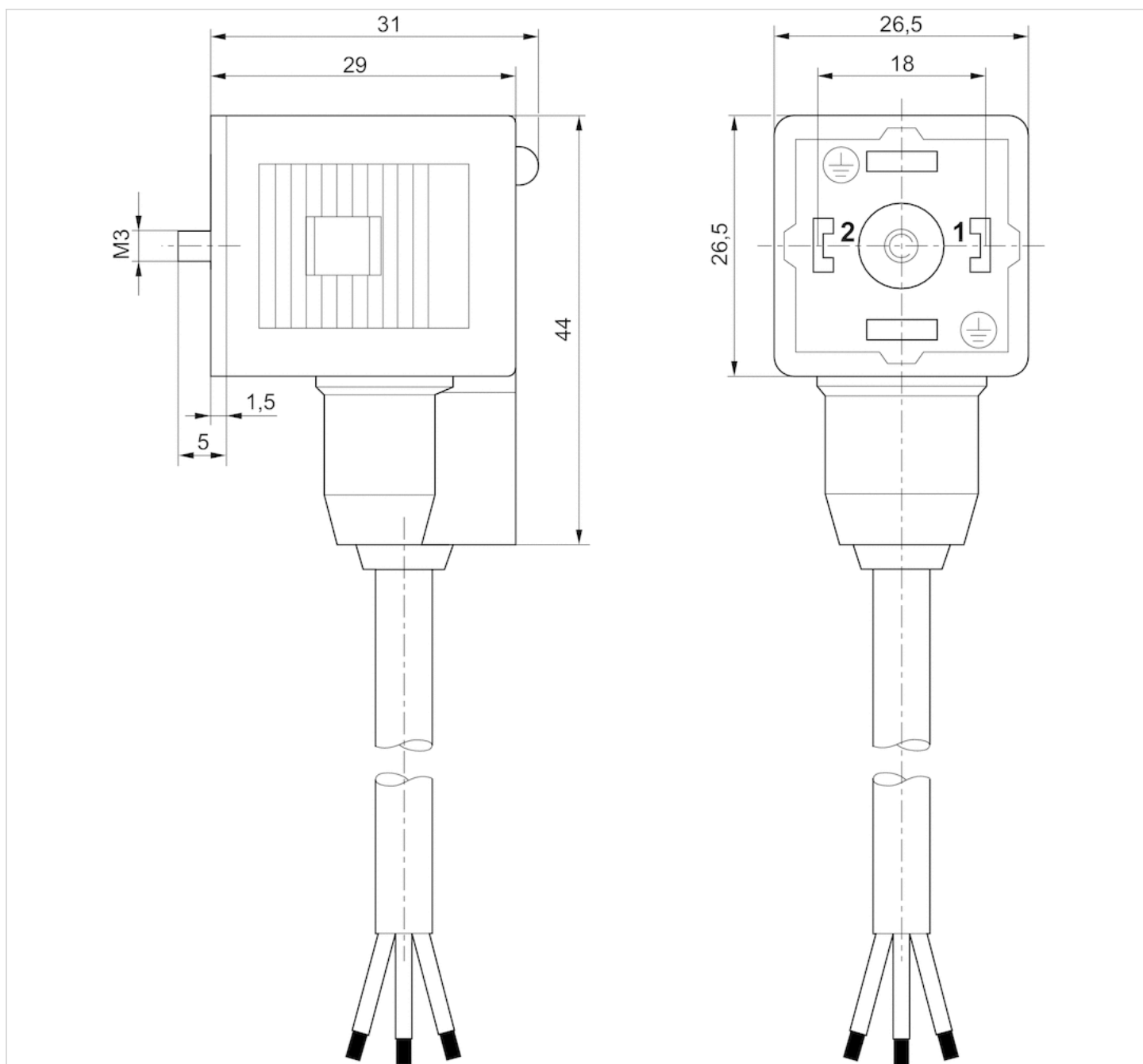


Fig. 2



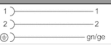

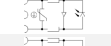

Valve plug connector, series CON-VP

- Socket, Form B, industry, 2+E, angled, 90°
- Industry standard
- unshielded
- with LED Yellow Red



| | |
|----------------------------------|-----------------|
| Connection type | Screws |
| Ambient temperature min./max. | -25 ... 50 °C |
| Operational voltage | See table below |
| Protection class | IP65 |
| Mounting screw tightening torque | 0,4 Nm |
| Weight | 0,02 kg |

Technical data

| Part No. | | Operational voltage | Max. current | Protective circuit | Contact assignment |
|------------|---|---------------------|--------------|--------------------|--------------------|
| 1834484051 |  | - | 10 A | - | 2+E |
| 1834484107 |  | 24 V AC/DC | - | Z-diode | 2+E |
| 1834484108 |  | 110 V AC | - | Varistor | 2+E |
| 1834484109 |  | 230 V AC | - | Varistor | 2+E |

| Part No. | LED status display | suitable cable-Ø min./max | Seal | Fig. | |
|------------|--------------------|---------------------------|---------------------------------|--------|----|
| 1834484051 | - | 4 / 8 mm | caoutchouc/butadiene caoutchouc | Fig. 1 | 1) |
| 1834484107 | Yellow | 6 / 8 mm | Silicone caoutchouc | Fig. 2 | 2) |
| 1834484108 | Red | 6 / 8 mm | Silicone caoutchouc | Fig. 2 | 1) |
| 1834484109 | Red | 4 / 8 mm | Silicone caoutchouc | Fig. 2 | 2) |

1) Profile seal

2) Flat gasket,

Technical information

For security reasons, the valve plug connector must be plugged properly and centrally.
The specified protection class is only valid in assembled and tested state.

Technical information

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

Dimensions

Fig. 1

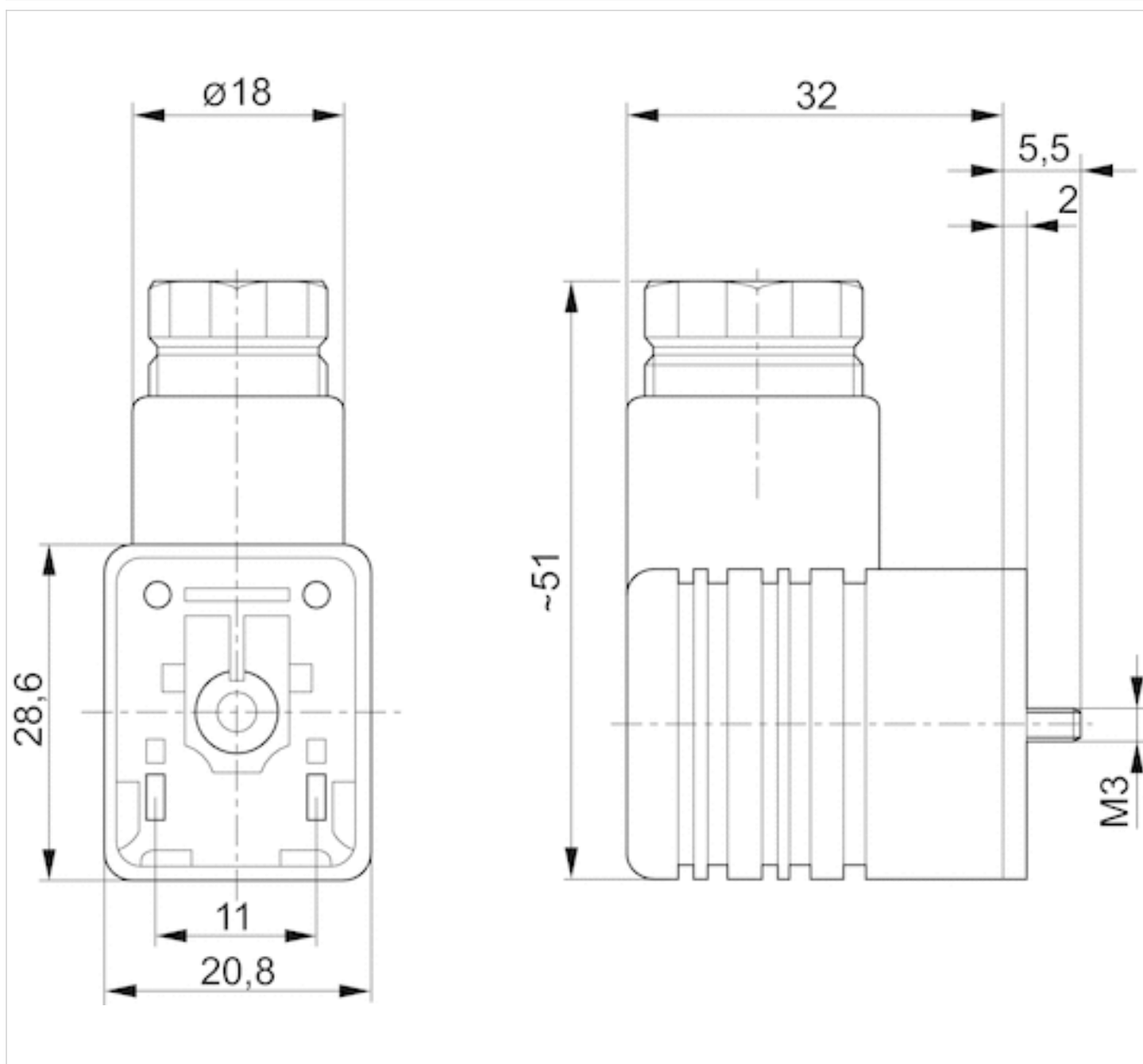
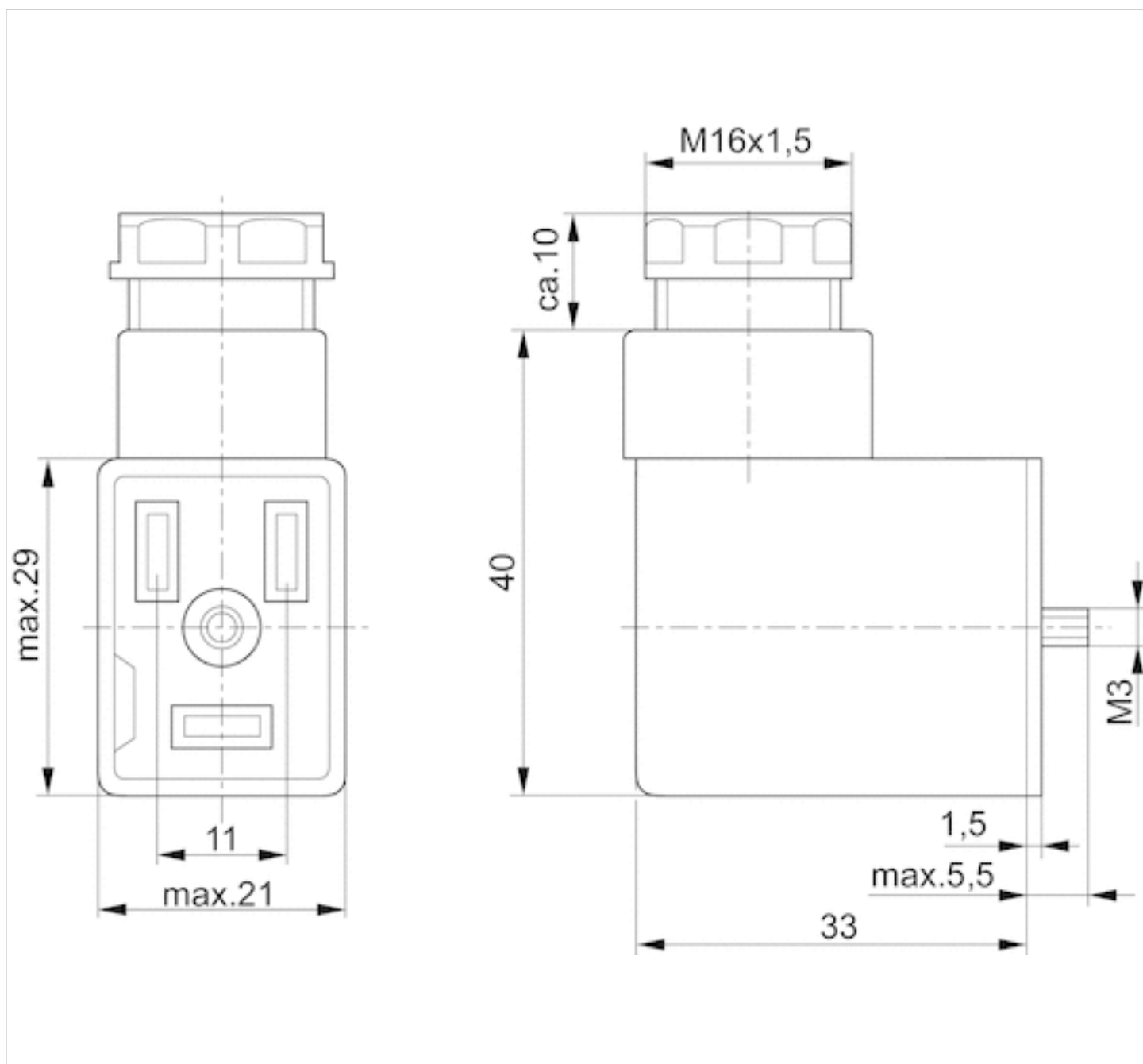


Fig. 2

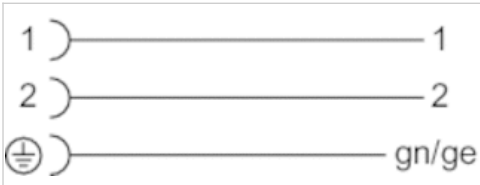


Valve plug connector, series CON-VP

- Socket Form B, industry 2+E angled 90°
- open cable ends 3-pin
- with cable
- unshielded



| | |
|----------------------------------|----------------------|
| Ambient temperature min./max. | -20 ... 80 °C |
| Protection class | IP67 |
| Wire cross-section | 0,75 mm ² |
| Mounting screw tightening torque | 0,4 Nm |
| Weight | 0,02 kg |



Technical data

| Part No. | Max. current | Contact assignment | Number of wires | Cable-Ø | Cable length |
|------------|--------------|--------------------|-----------------|---------|--------------|
| 8946201912 | 4 A | 2+E | 3 | 5,9 mm | 3 m |

Technical information

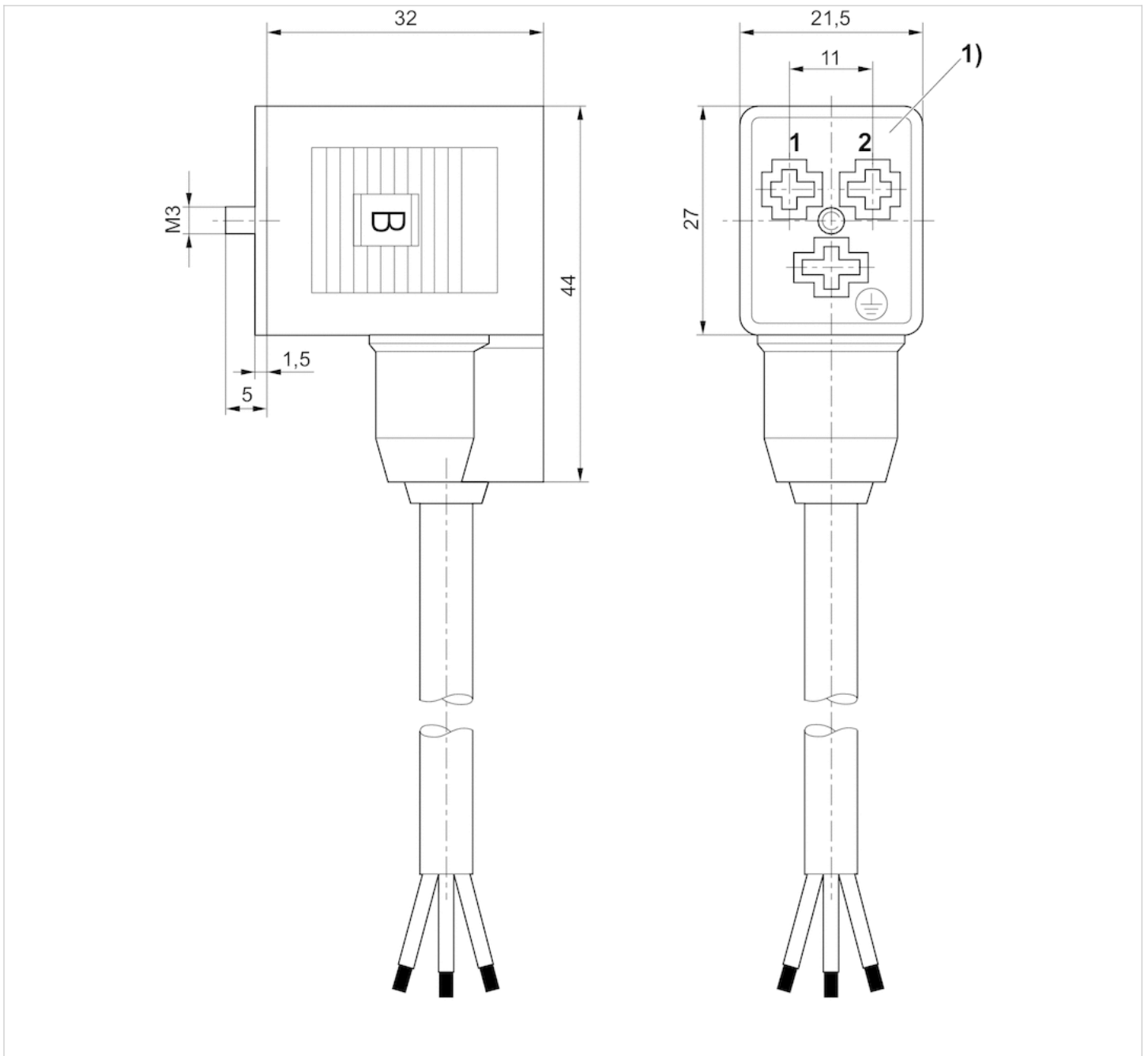
For security reasons, the valve plug connector must be plugged properly and centrally.
The specified protection class is only valid in assembled and tested state.

Technical information

| Material | |
|--------------|--------------------|
| Cable sheath | Polyvinyl chloride |

Dimensions

Dimensions



1) 0° female insert

Valve cover seal, Valve housing seal

- for 581, size 4



Weight

See table below

Technical data

| Part No. | Type | Weight |
|------------|--|----------|
| 0490428402 | Valve cover seal, electrically operated valves | 0,015 kg |
| 0490428518 | Valve cover seal, pneumatically operated valves | 0,001 kg |
| 0490428607 | Valve cover seal, for valves with logic function | 0,015 kg |
| 0486704306 | Valve housing seal, between housing and base plate | 0,003 kg |

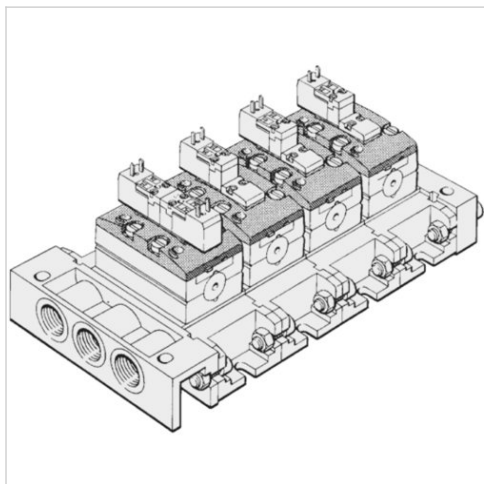
Technical information

| Material | |
|----------|---------------------------------|
| Housing | caoutchouc/butadiene caoutchouc |

valve cover, with or without pilot valve

- for 581, size 4

- standard ISO 5599-1



standard

Ambient temperature min./max.

Medium

Max. particle size

Oil content of compressed air

Weight

ISO 5599-1

-10 ... 50 °C

Compressed air

50 µm

40 ... 400 mg/m³

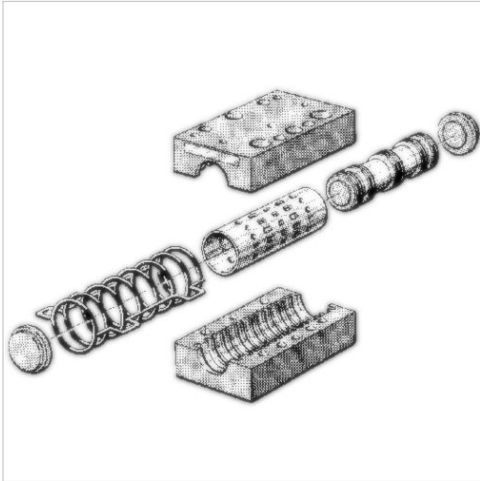
See table below

Technical data

| Part No. | Type | Pilot valve width | Weight |
|------------|-------------------------------------|-------------------|---------|
| 5814010000 | 5/2-directional valve, mono-stable | 22 mm | 1 kg |
| 5814020000 | 2x3/2-, 5/2-, 5/3-directional valve | 22 mm | 0,39 kg |
| 5814050000 | 5/2-directional valve, mono-stable | 22 mm | 0,38 kg |
| 5814060000 | 2x3/2-, 5/2-, 5/3-directional valve | 22 mm | 0,39 kg |
| 5814080000 | all | 30 mm | 1,7 kg |

valve housing, without cover

- Aluminum
- for 581, size 4
- standard ISO 5599-1



| | |
|-------------------------------|------------------------------|
| standard | ISO 5599-1 |
| Ambient temperature min./max. | -20 ... 70 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 40 ... 400 mg/m ³ |
| Weight | See table below |

Technical data

| Part No. | Type | Weight | |
|------------|--|----------|----|
| 5814100000 | 5/2-directional valve, mono-stable | 0,842 kg | - |
| 5814200000 | 5/2-directional valve, double solenoid | 0,833 kg | - |
| 5814300000 | 5/2-directional valve, double solenoid, with manual override | 1,1 kg | 1) |
| 5814600000 | 5/2-way solenoid valve, with differential piston | 0,83 kg | 2) |
| 5814400000 | 5/3-directional valve, closed center | 1,1 kg | - |
| 5814500000 | 5/3-directional valve, exhausted center | 1,1 kg | - |
| 5814700000 | 5/3-directional valve, pressurized center | 1,1 kg | - |

1) The valve can be changed to a single solenoid version with air return.

2) signal 14 has priority

Technical information

| Material | |
|----------|----------|
| Housing | Aluminum |

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