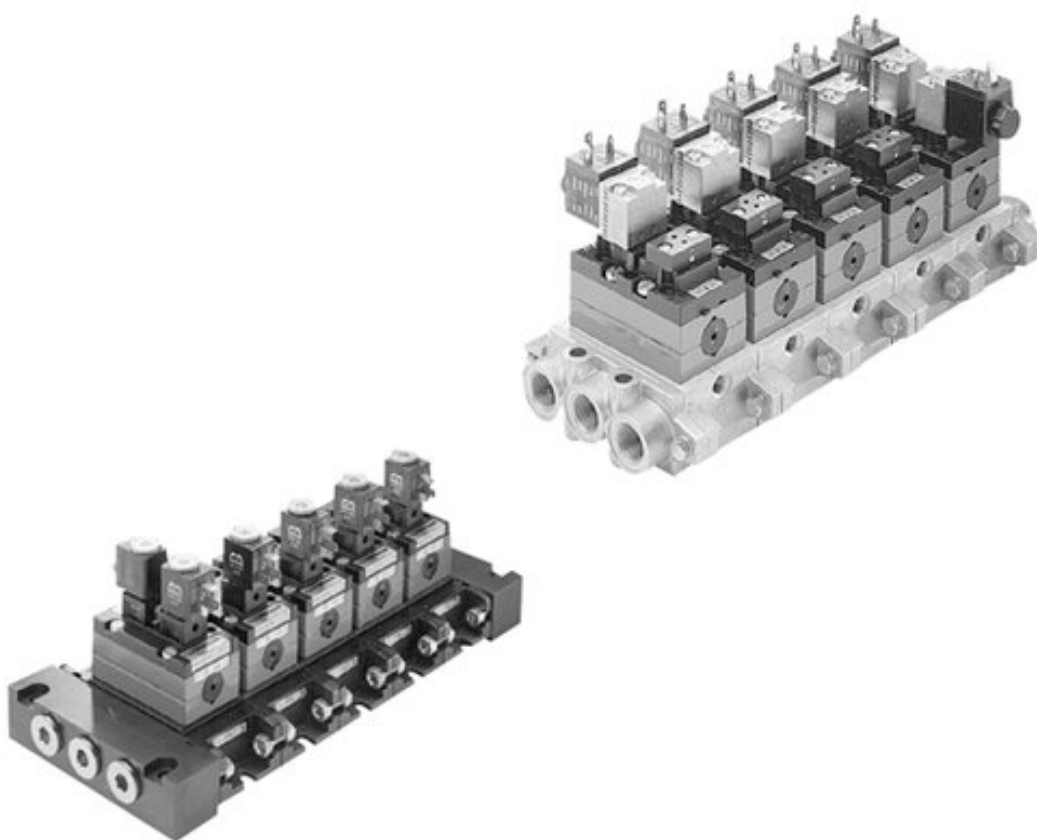


Series 581, size 2

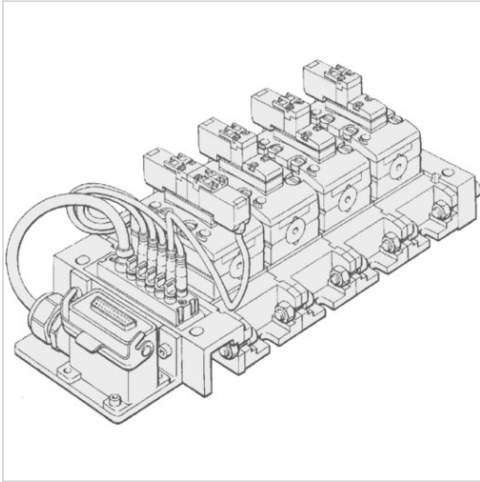


AVENTICS™ Series 581, size 2



Valve system, Series 581, size 2

- Configurable valve systems



Blocking principle
 Standards
 Working pressure min./max.
 Ambient temperature min./max.
 Medium
 Max. particle size
 Oil content of compressed air
 Nominal flow Qn
 Number of valve positions max.
 Protection class with connection
 Voltage tolerance DC

Single base plate principle
 ISO 5599-1, ISO 2
 -0,95 ... 10 bar
 -10 ... 50 °C
 Compressed air
 50 µm
 0 ... 5 mg/m³
 2200 l/min
 10
 IP65 IP67
 -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: |
|--|-------------------------------|--|
| | 15 mm pilot valve width | Compressed air connection output Base plate ISO 5599-1 manual override: without detent |
| | 15 mm pilot valve width | Compressed air connection output Base plate ISO 5599-1 Electrical connection Single plug-in wiring electronic connection module and multiple cable manual override: without detent |
| | 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.

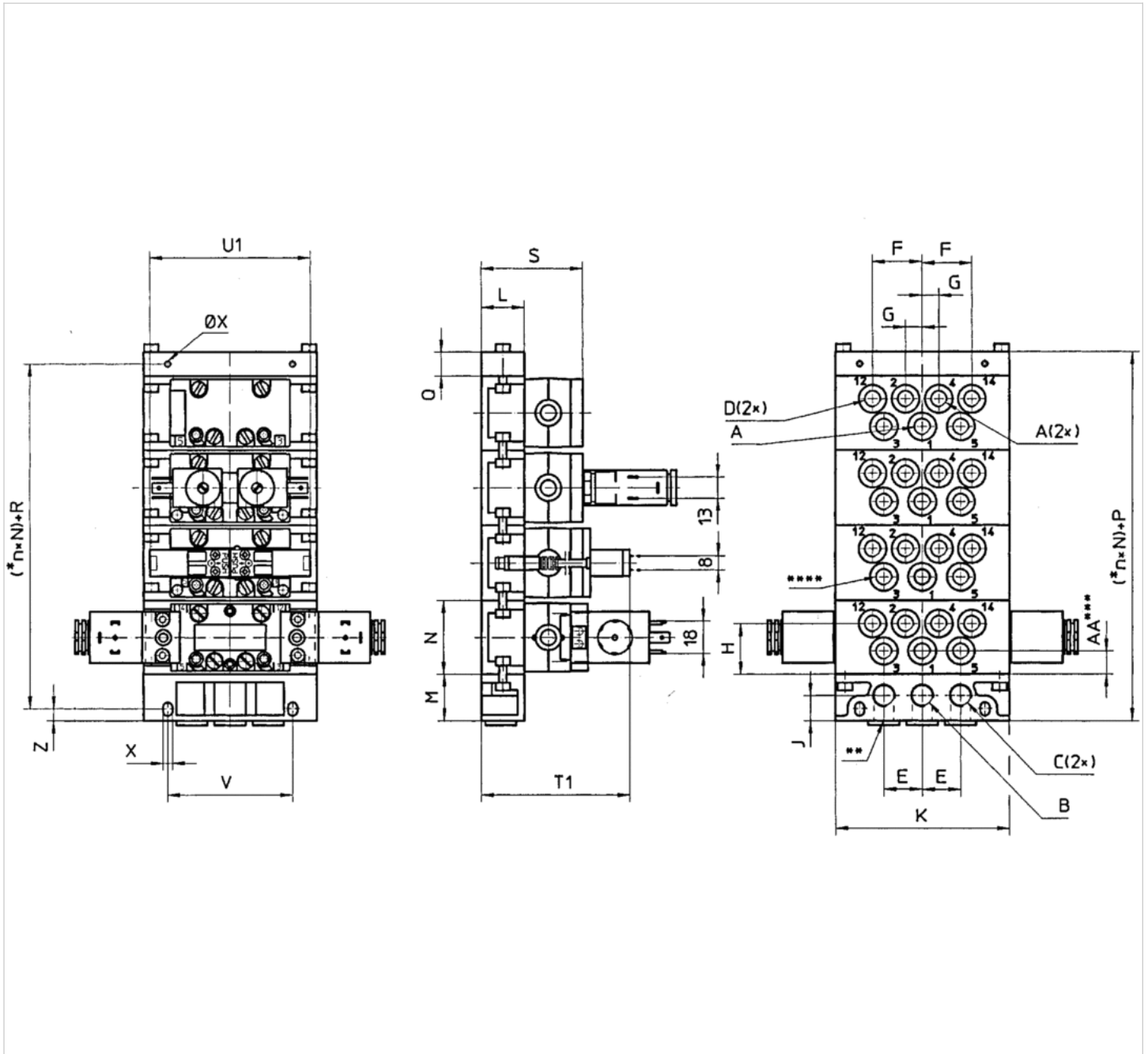
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

15 mm pilot valve width, electronic connection module and multiple cable, 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

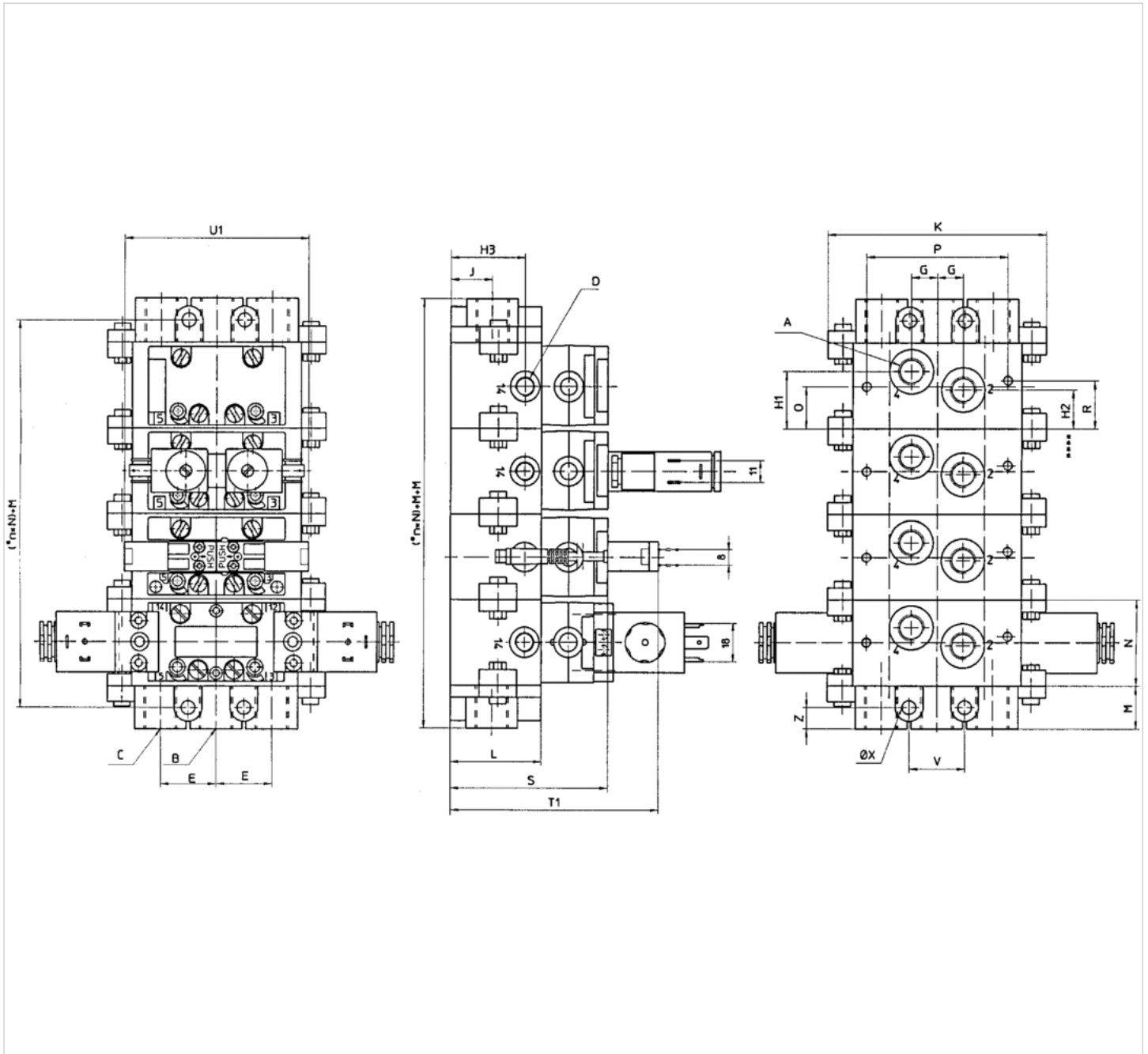
| | | | |
|---|-------|-------|-------|
| A | G 1/4 | G 3/8 | Ø 8 |
| B | G 3/8 | G 1/2 | G 3/8 |
| C | G 3/8 | G 1/2 | G 3/8 |

| A | G 1/4 | G 3/8 | Ø 8 |
|--------------|-------|-------|------|
| D | G 1/8 | G 1/8 | Ø 6 |
| E | 27 | 36 | 27 |
| F | 39 | 52 | 39 |
| G | 13.5 | 17 | 13.5 |
| H | 38 | 33 | 38 |
| J | 20 | 22 | 20 |
| K | 122 | 156 | 122 |
| L | 30 | 37 | 30 |
| M | 34 | 39 | 34 |
| N | 56 | 56 | 56 |
| P (=M+Q) | 49 | 59 | 49 |
| Q | 15 | 20 | 15 |
| R (=Q/2+M-Z) | 34 | 40 | 34 |
| S | 71 | 80 | 71 |
| V | 94 | 118 | 94 |
| X | 6.4 | 8.4 | 6.4 |
| Z | 8 | 10 | 10 |
| AA | 18 | – | – |
| T1 | 105 | 114 | 105 |
| U1 | 93 | 93 | 93 |

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 3/8 |
| B | G 1/2 |
| C | G 1/2 |
| D | G 1/8 |
| E | 34 |
| G | 15 |

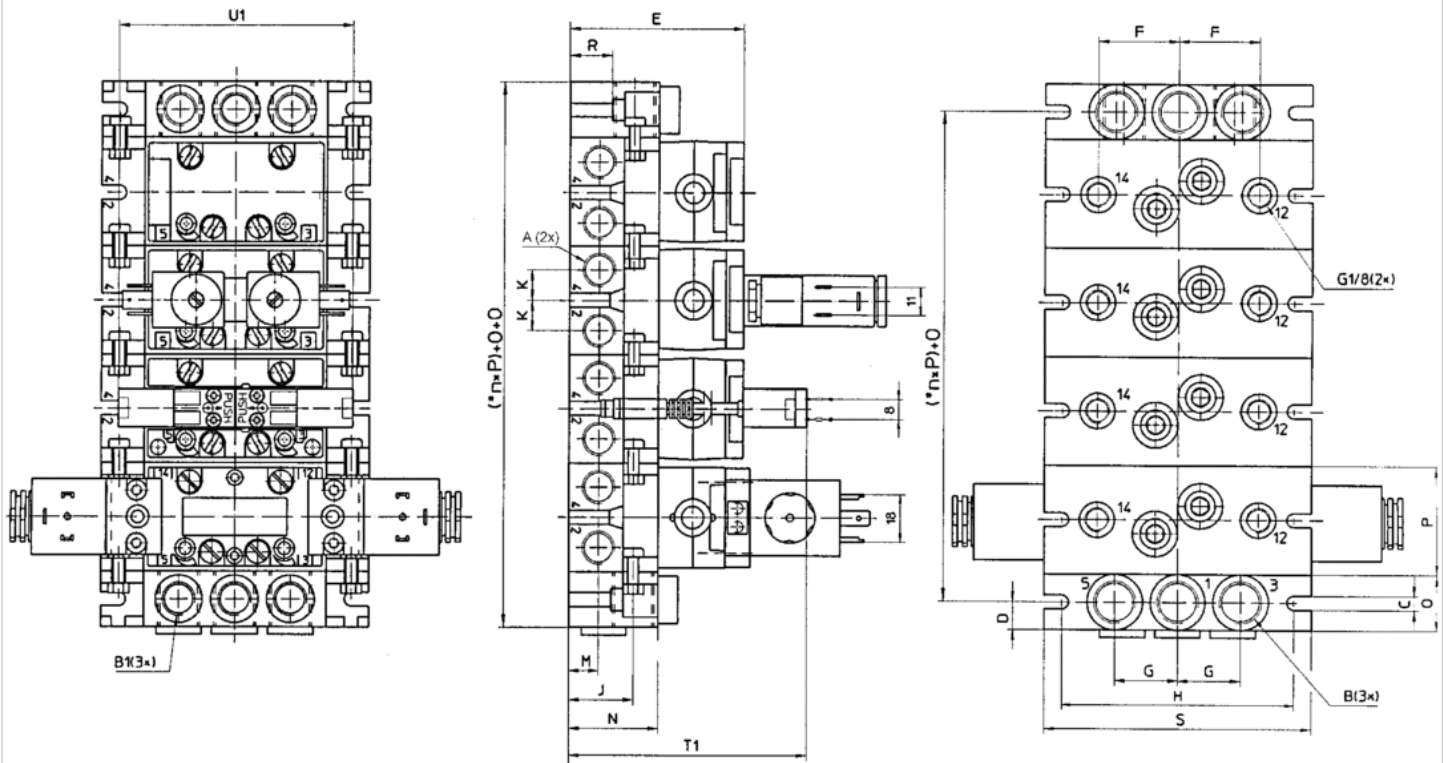
| A | G 3/8 |
|----|-------|
| H1 | 34 |
| H2 | 23 |
| H3 | 38 |
| J | 23 |
| K | 135 |
| L | 47 |
| M | 26 |
| N | 56 |
| P | 86 |
| Q | 28 |
| R | 31 |
| S | 89 |
| V | 35 |
| X | 9 |
| Z | 13 |
| T1 | 122 |
| U1 | 93 |

* n = Number of subbases

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

Dimensions

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



* n = Number of subbases

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

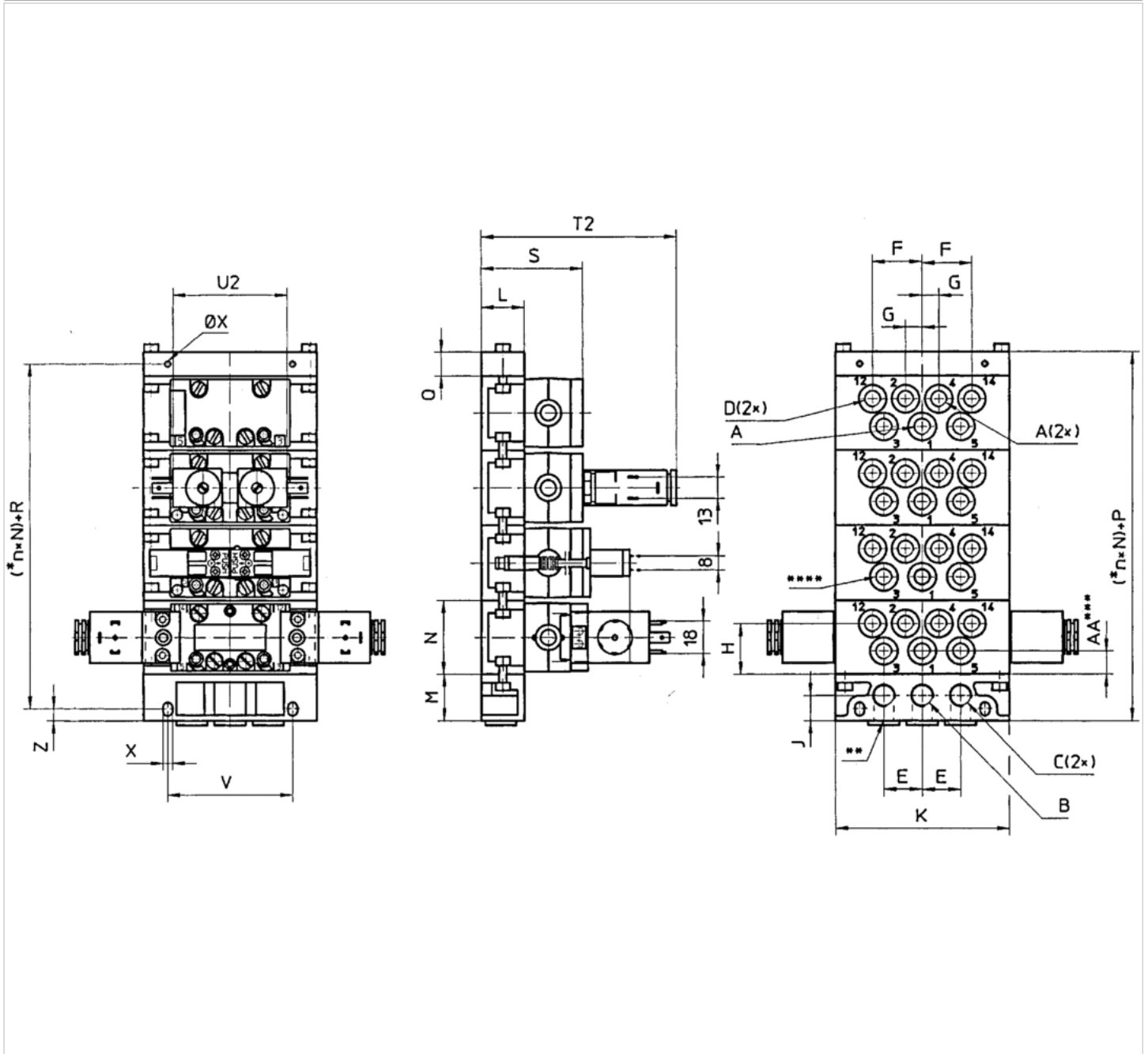
Dimensions

| | |
|----|-------|
| A | G 3/8 |
| B | G 1/2 |
| B1 | G 3/8 |
| C | 6.5 |
| D | 14.5 |
| E | 85 |

| A | G 3/8 |
|----|-------|
| F | 34 |
| G | 29 |
| H | 102 |
| J | 32 |
| R | 20 |
| K | 15 |
| M | 15 |
| N | 43 |
| O | 29 |
| P | 56 |
| S | 120 |
| T1 | 118 |
| U1 | 93 |

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

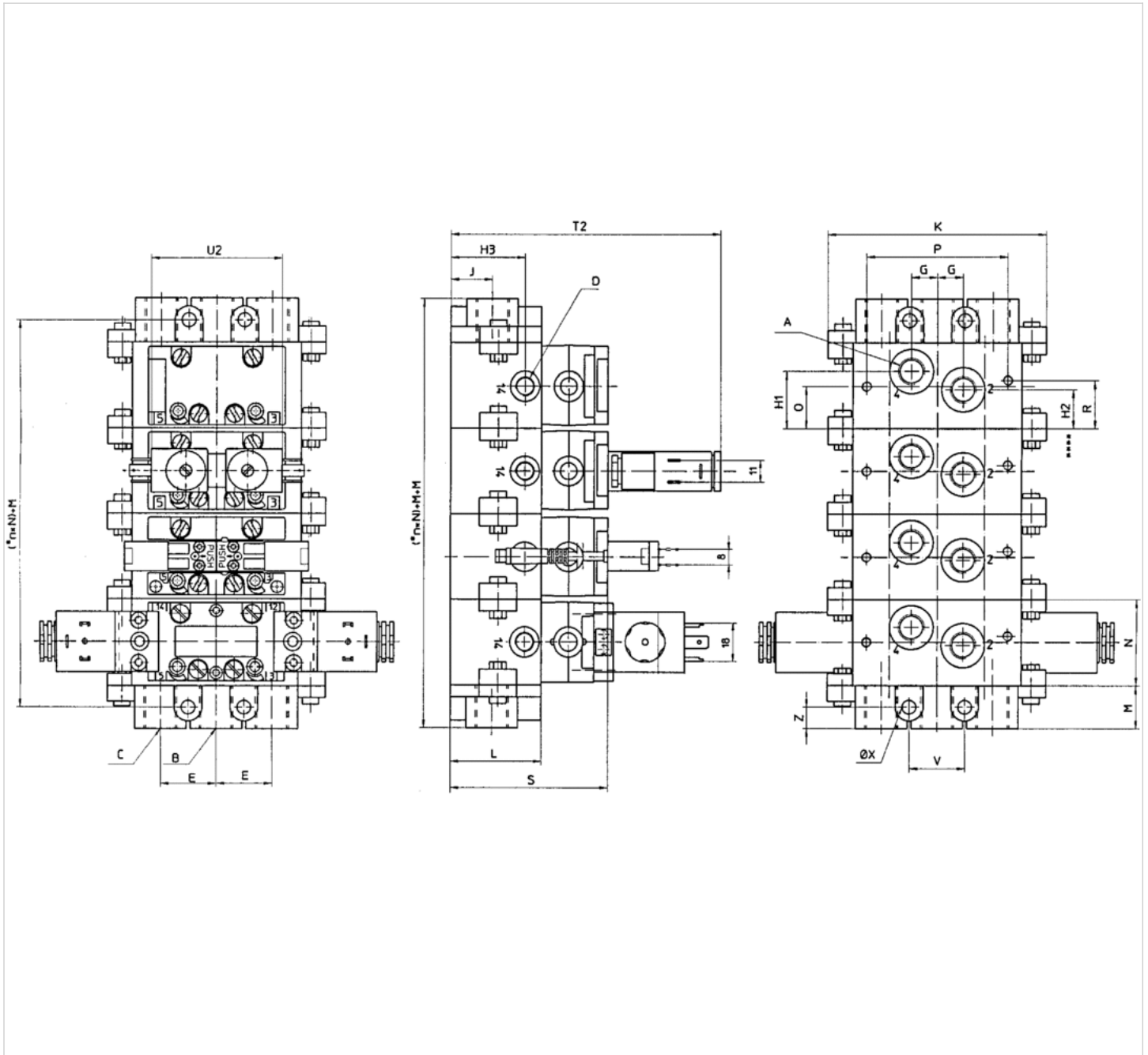
| A | B | C | D | E | F | G | H | J | K | L | M | N | P (=M+Q) | Q | R (=Q/2+M-Z) | S | V | X |
|-------|-------|-------|-------|----|----|------|----|----|-----|----|----|----|----------|----|--------------|----|-----|-----|
| G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 39 | 13.5 | 38 | 20 | 122 | 30 | 34 | 56 | 49 | 15 | 34 | 71 | 94 | 6.4 |
| G 3/8 | G 1/2 | G 1/2 | G 1/8 | 36 | 52 | 17 | 33 | 22 | 156 | 37 | 39 | 56 | 59 | 20 | 40 | 80 | 118 | 8.4 |
| Ø 8 | G 3/8 | G 3/8 | Ø 6 | 27 | 39 | 13.5 | 38 | 20 | 122 | 30 | 34 | 56 | 49 | 15 | 34 | 71 | 94 | 6.4 |

| Z | AA | T2 | U2 |
|----|----|-----|----|
| 8 | 18 | 126 | 68 |
| 10 | - | 135 | 68 |
| 10 | - | 126 | 68 |

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.

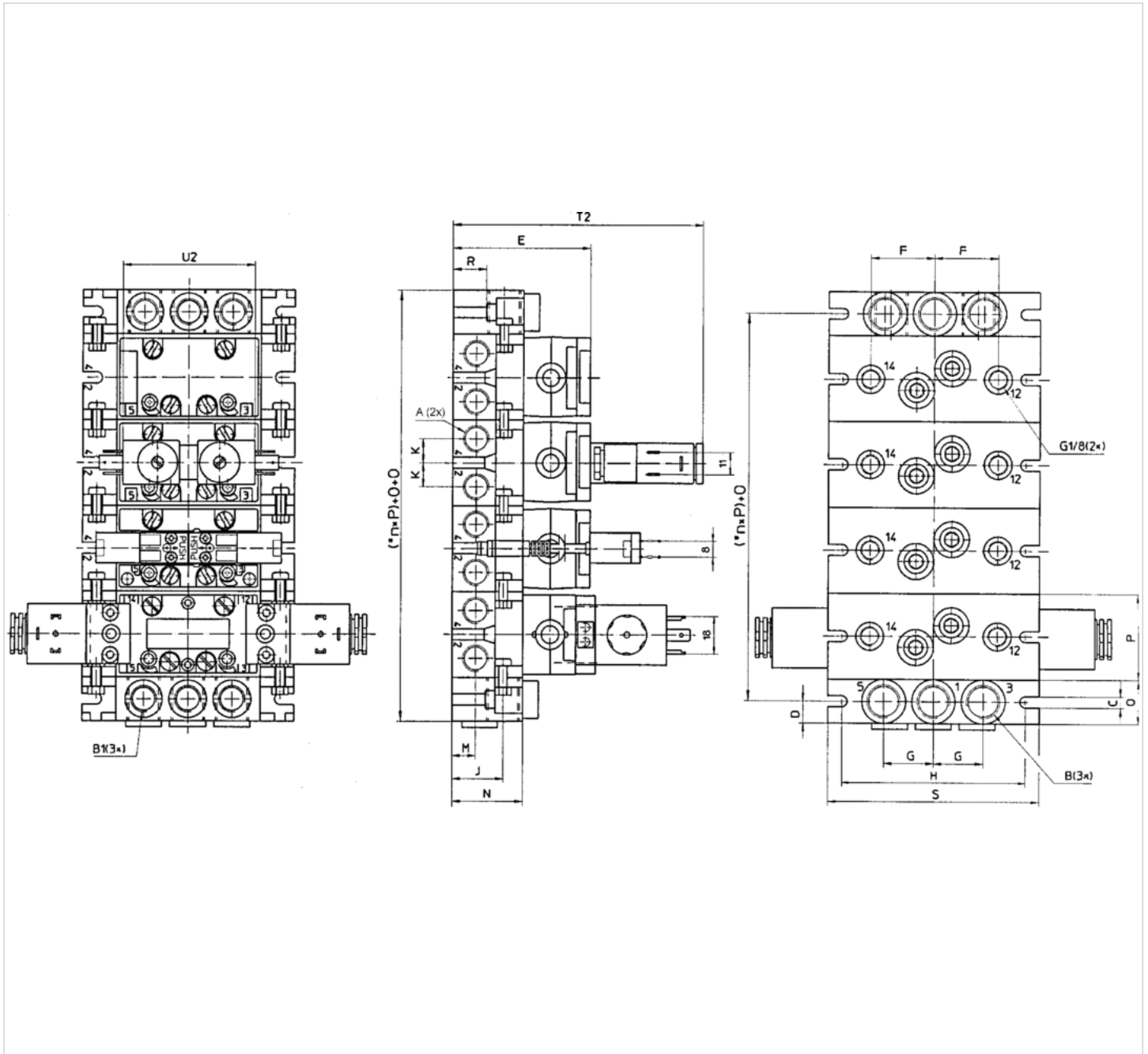
Dimensions

| | |
|---|-------|
| A | G 3/8 |
| B | G 1/2 |
| C | G 1/2 |
| D | G 1/8 |
| E | 34 |
| G | 15 |

| A | G 3/8 |
|----|-------|
| H1 | 34 |
| H2 | 23 |
| H3 | 38 |
| J | 23 |
| K | 135 |
| L | 47 |
| M | 26 |
| N | 56 |
| P | 86 |
| Q | 28 |
| R | 31 |
| S | 89 |
| V | 35 |
| X | 9 |
| Z | 13 |
| T2 | 143 |
| U2 | 68 |

Dimensions

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



* n = Number of subbases

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

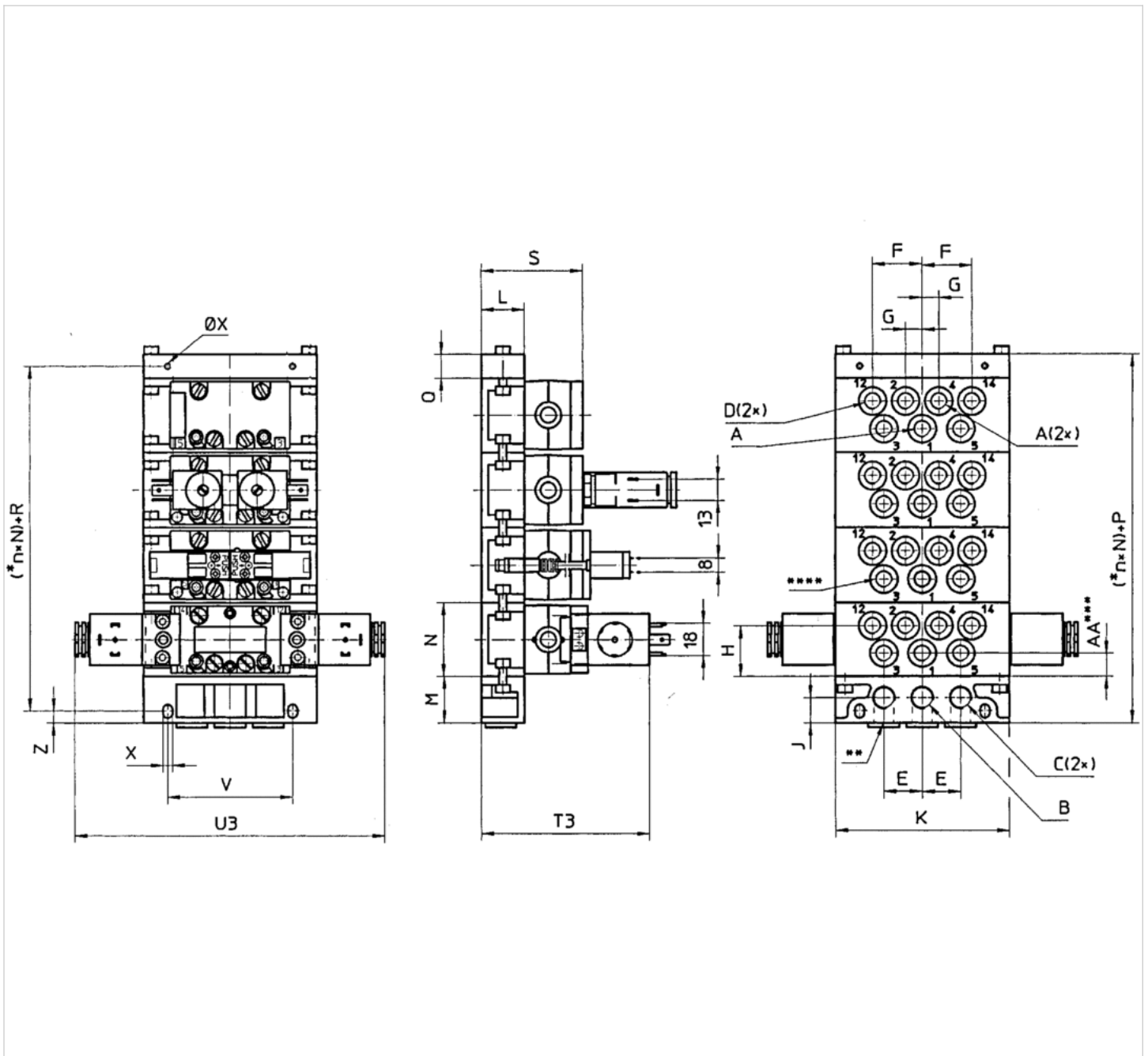
Dimensions

| | |
|----|-------|
| A | G 3/8 |
| B | G 1/2 |
| B1 | G 3/8 |
| C | 6.5 |
| D | 14.5 |
| E | 85 |

| A | G 3/8 |
|----|-------|
| F | 34 |
| G | 29 |
| H | 102 |
| J | 32 |
| R | 20 |
| K | 15 |
| M | 15 |
| N | 43 |
| O | 29 |
| P | 56 |
| S | 120 |
| T2 | 139 |
| U2 | 68 |

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

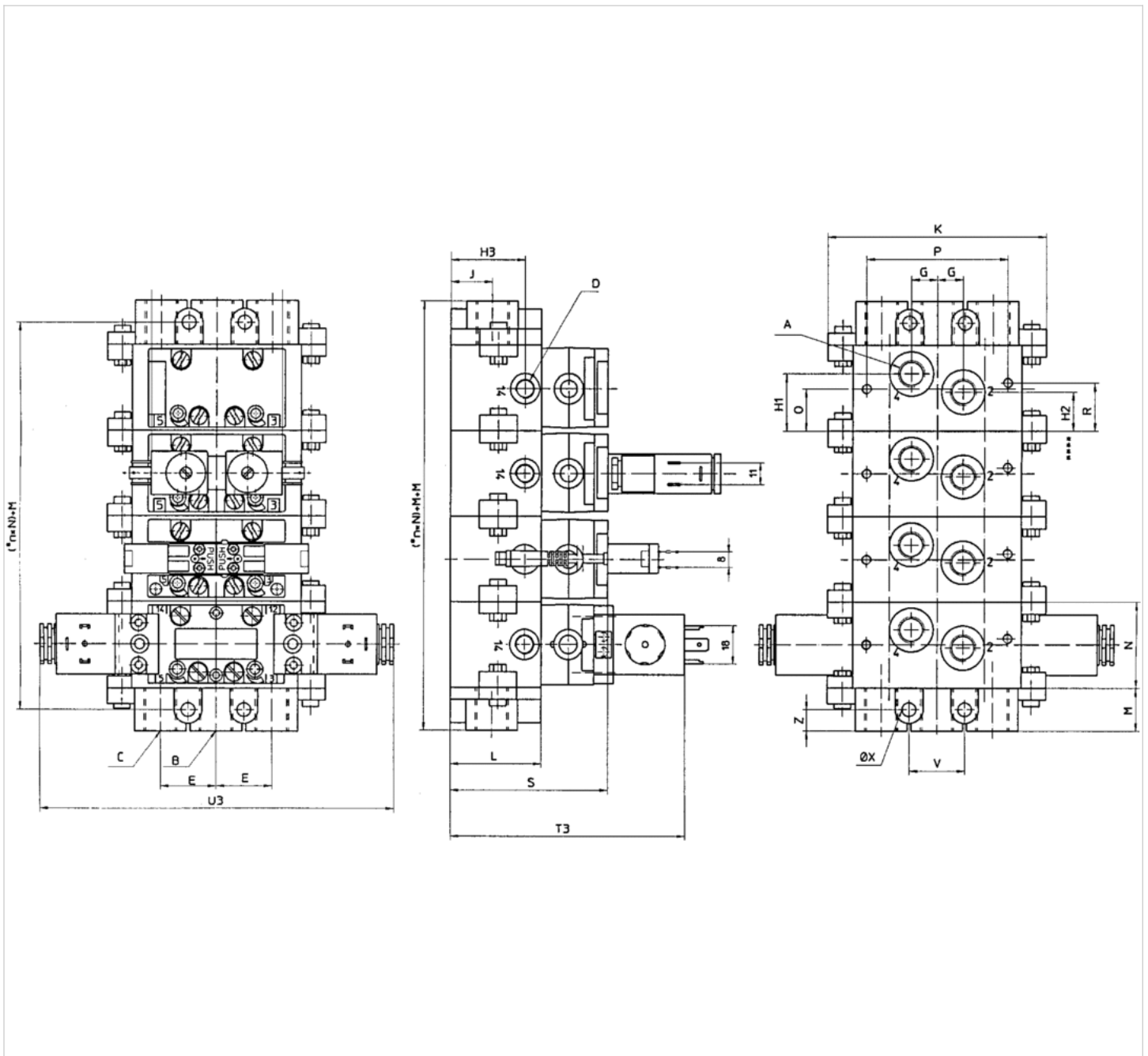
| | | | |
|---|-------|-------|-------|
| A | G 1/4 | G 3/8 | Ø 8 |
| B | G 3/8 | G 1/2 | G 3/8 |
| C | G 3/8 | G 1/2 | G 3/8 |

| A | G 1/4 | G 3/8 | Ø 8 |
|--------------|-------|-------|------|
| D | G 1/8 | G 1/8 | Ø 6 |
| E | 27 | 36 | 27 |
| F | 39 | 52 | 39 |
| G | 13.5 | 17 | 13.5 |
| H | 38 | 33 | 38 |
| J | 20 | 22 | 20 |
| K | 122 | 156 | 122 |
| L | 30 | 37 | 30 |
| M | 34 | 39 | 34 |
| N | 56 | 56 | 56 |
| P (=M+Q) | 49 | 59 | 49 |
| Q | 15 | 20 | 15 |
| R (=Q/2+M-Z) | 34 | 40 | 34 |
| S | 71 | 80 | 71 |
| V | 94 | 118 | 94 |
| X | 6.4 | 8.4 | 6.4 |
| Z | 8 | 10 | 10 |
| AA | 18 | – | – |
| T3 | 114 | 121 | 114 |
| U3 | 132 | 132 | 176 |

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.

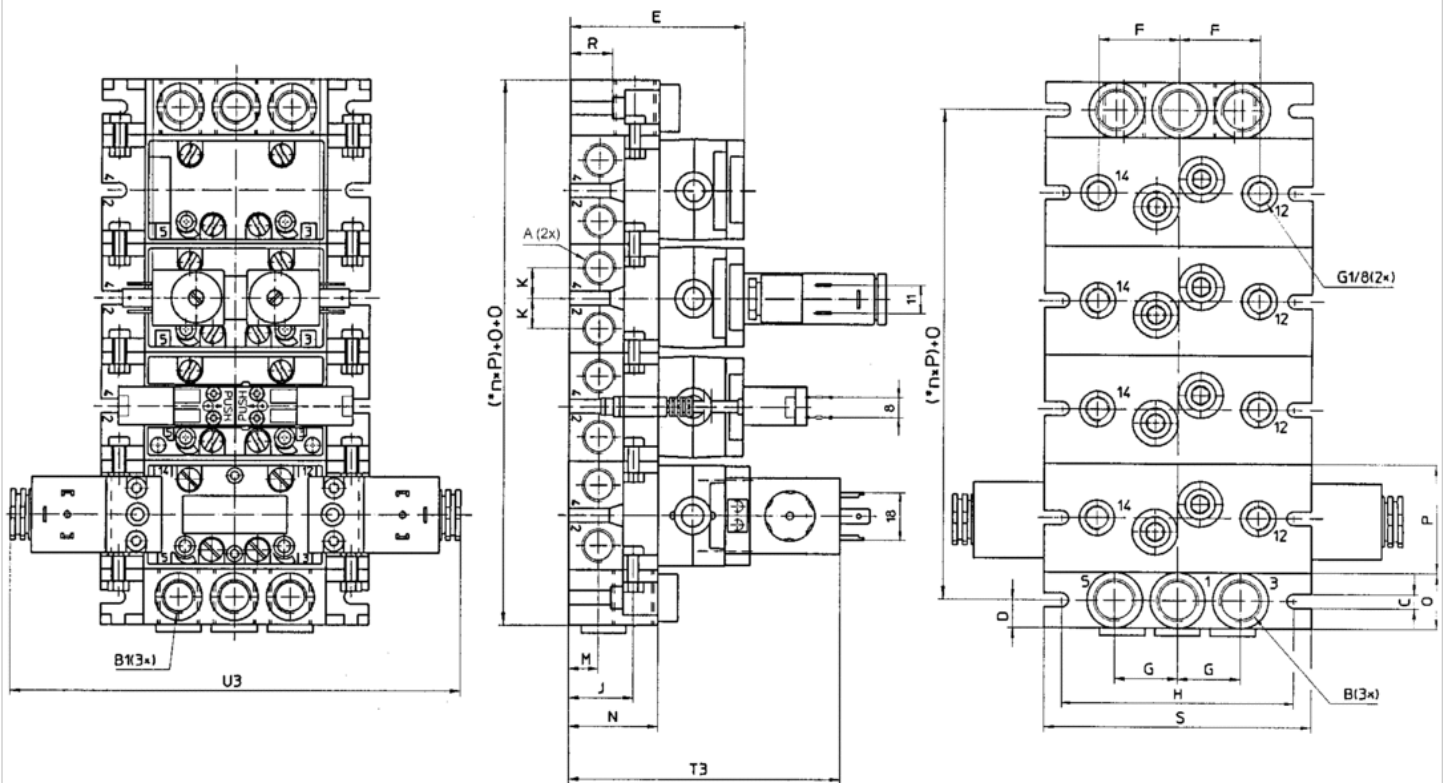
Dimensions

| | |
|---|-------|
| A | G 3/8 |
| B | G 1/2 |
| C | G 1/2 |
| D | G 1/8 |
| E | 34 |
| G | 15 |

| A | G 3/8 |
|----|-------|
| H1 | 34 |
| H2 | 23 |
| H3 | 38 |
| J | 23 |
| K | 135 |
| L | 47 |
| M | 26 |
| N | 56 |
| P | 86 |
| Q | 28 |
| R | 31 |
| S | 89 |
| V | 35 |
| X | 9 |
| Z | 13 |
| T3 | 129 |
| U3 | 132 |

Dimensions

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



* n = Number of subbases

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

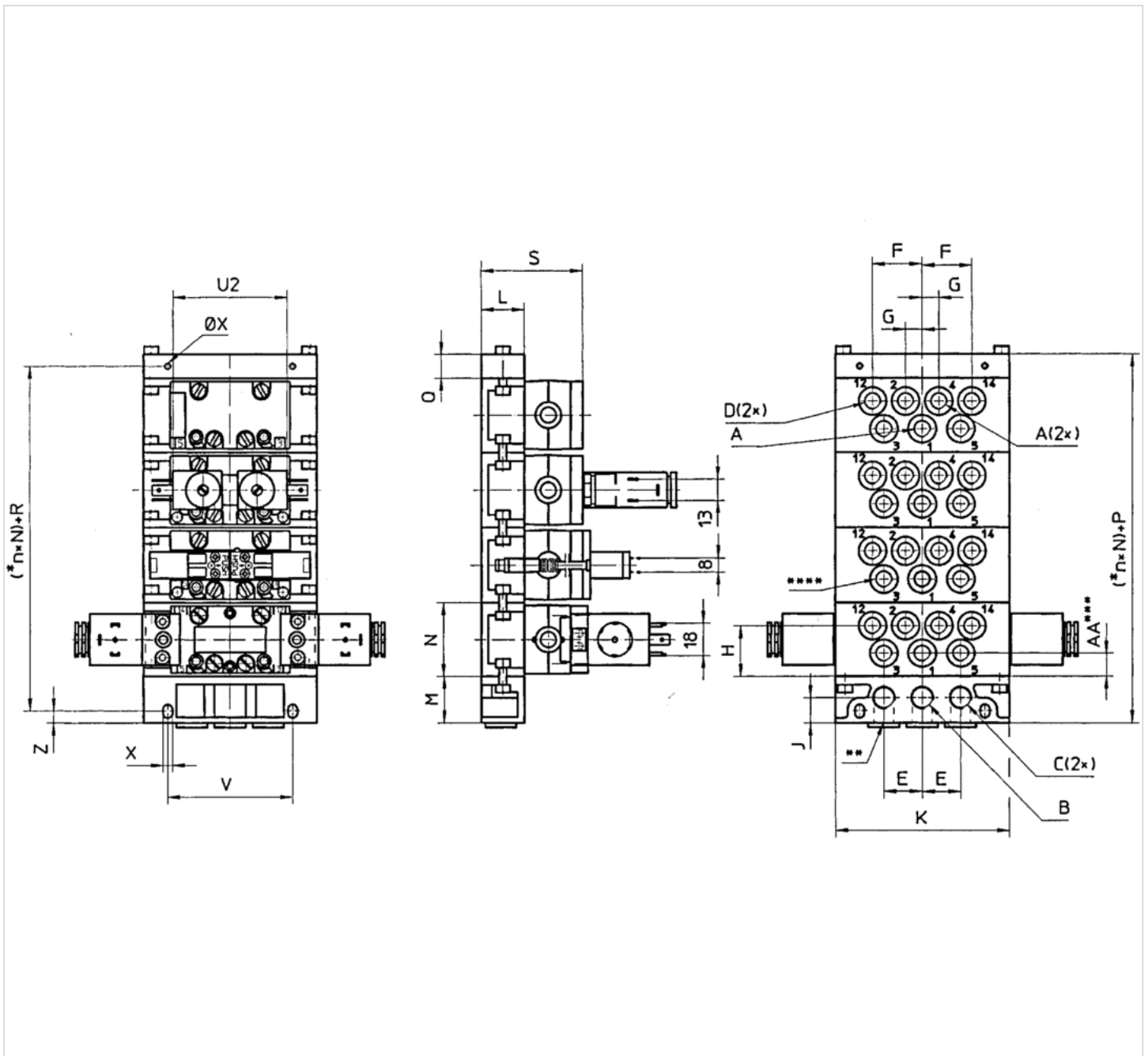
Dimensions

| | |
|----|-------|
| A | G 3/8 |
| B | G 1/2 |
| B1 | G 3/8 |
| C | 6.5 |
| D | 14.5 |
| E | 85 |

| A | G 3/8 |
|----|-------|
| F | 34 |
| G | 29 |
| H | 102 |
| J | 32 |
| R | 20 |
| K | 15 |
| M | 15 |
| N | 43 |
| O | 29 |
| P | 56 |
| S | 120 |
| T3 | 127 |
| U3 | 132 |

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

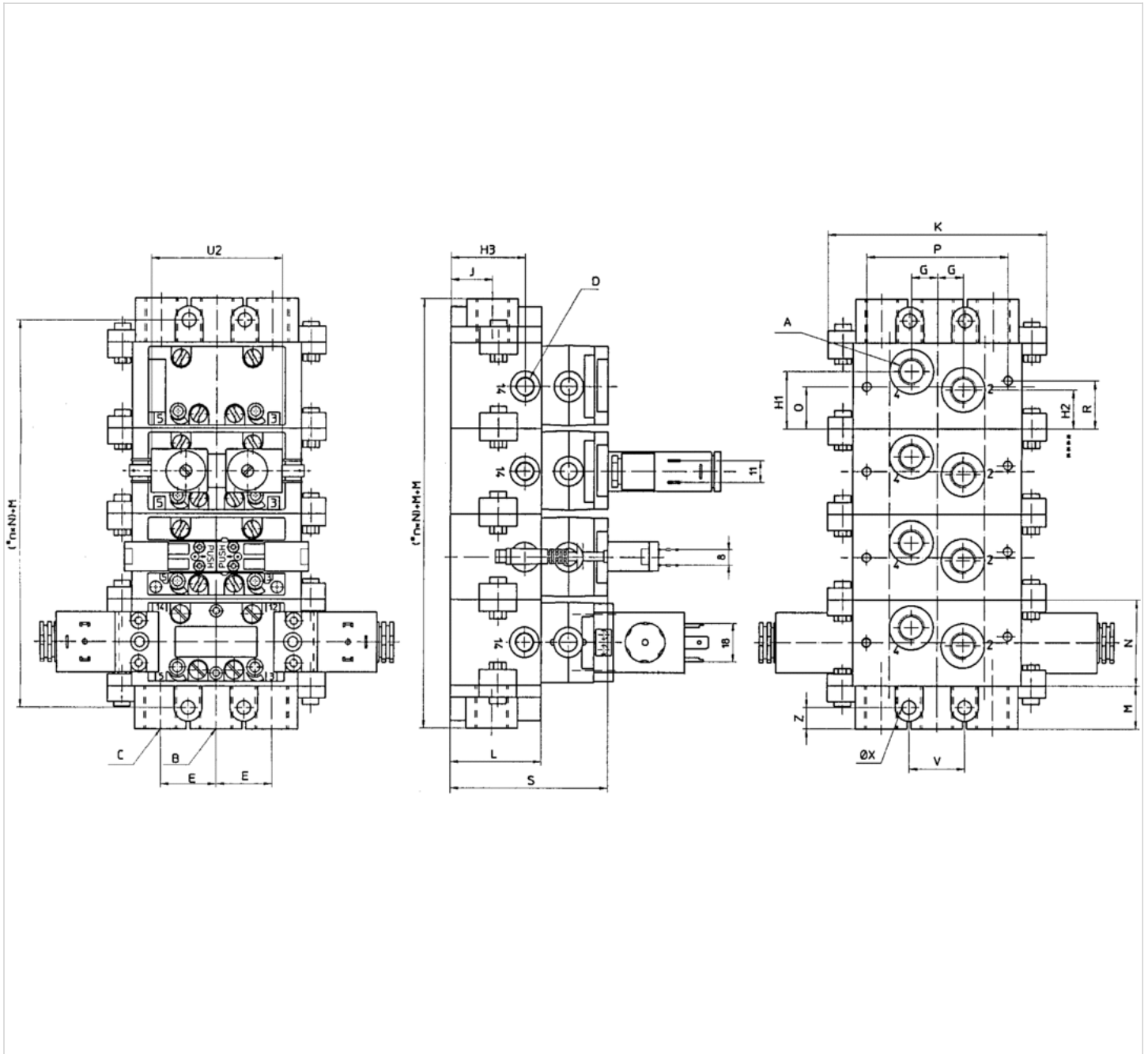
| | | | |
|---|-------|-------|-------|
| A | G 1/4 | G 3/8 | Ø 8 |
| B | G 3/8 | G 1/2 | G 3/8 |
| C | G 3/8 | G 1/2 | G 3/8 |
| D | G 1/8 | G 1/8 | Ø 6 |

| A | G 1/4 | G 3/8 | Ø 8 |
|--------------|-------|-------|------|
| E | 27 | 36 | 27 |
| F | 39 | 52 | 39 |
| G | 13.5 | 17 | 13.5 |
| H | 38 | 33 | 38 |
| J | 20 | 22 | 20 |
| K | 122 | 156 | 122 |
| L | 30 | 37 | 30 |
| M | 34 | 39 | 34 |
| N | 56 | 56 | 56 |
| P (=M+Q) | 49 | 59 | 49 |
| Q | 15 | 20 | 15 |
| R (=Q/2+M-Z) | 34 | 40 | 34 |
| S | 71 | 80 | 71 |
| V | 94 | 118 | 94 |
| X | 6.4 | 8.4 | 6.4 |
| Z | 8 | 10 | 10 |
| AA | 18 | – | – |
| U2 | 68 | 68 | 68 |

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.

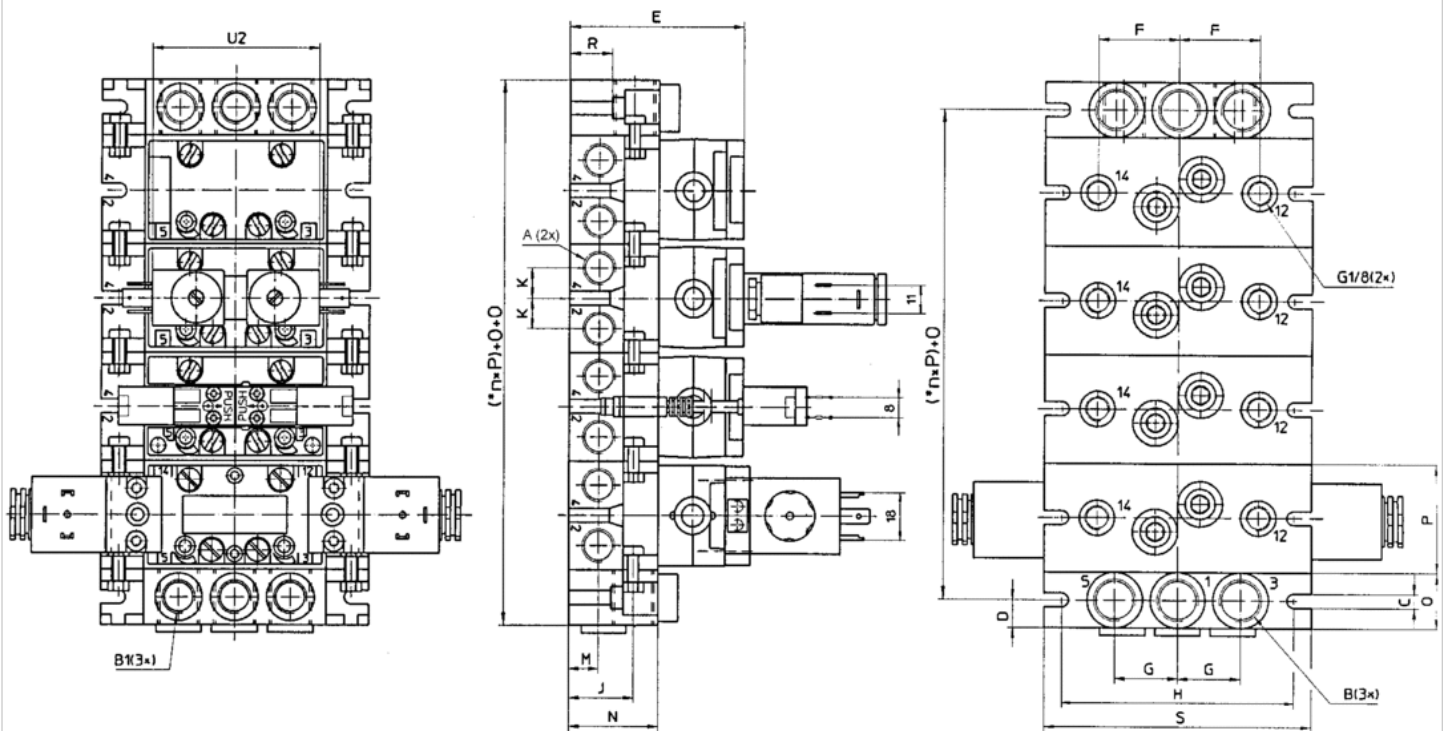
Dimensions

| | |
|---|-------|
| A | G 3/8 |
| B | G 1/2 |
| C | G 1/2 |
| D | G 1/8 |
| E | 34 |
| G | 15 |

| A | G 3/8 |
|----|-------|
| H1 | 34 |
| H2 | 23 |
| H3 | 38 |
| J | 23 |
| K | 135 |
| L | 47 |
| M | 26 |
| N | 56 |
| P | 86 |
| Q | 28 |
| R | 31 |
| S | 89 |
| V | 35 |
| X | 9 |
| Z | 13 |
| U2 | 68 |

Dimensions

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



* n = Number of subbases

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

Dimensions

| | |
|----|-------|
| A | G 3/8 |
| B | G 1/2 |
| B1 | G 3/8 |
| C | 6.5 |
| D | 14.5 |
| E | 85 |

| A | G 3/8 |
|----|-------|
| F | 34 |
| G | 29 |
| H | 102 |
| J | 32 |
| R | 20 |
| K | 15 |
| M | 15 |
| N | 43 |
| O | 29 |
| P | 56 |
| S | 120 |
| U2 | 68 |









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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, ISO 15217, form C
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 μm |
| Oil content of compressed air | 0 ... 5 mg/m^3 |
| Nominal flow Q_n | 2700 l/min |
| Flow conductance C | 10,8 $\text{l}/(\text{s} \cdot \text{bar})$ |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 28 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,3 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812150130 |  |  | 24 V | -10% / +10% |
| 5812151130 |  |  | 24 V | -10% / +10% |
| 5812152130 |  |  | 24 V | -10% / +10% |
| 5812153130 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5812150130 | 2 W | Internal | 3 ... 10 bar |
| 5812151130 | 2 W | Internal | 3 ... 10 bar |
| 5812152130 | 2 W | External | -0,95 ... 10 bar |
| 5812153130 | 2 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812150130 | Plug ISO 15217, form C | - |
| 5812151130 | Plug ISO 15217, form C | with throttle |
| 5812152130 | Plug ISO 15217, form C | - |
| 5812153130 | Plug ISO 15217, form C | 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.

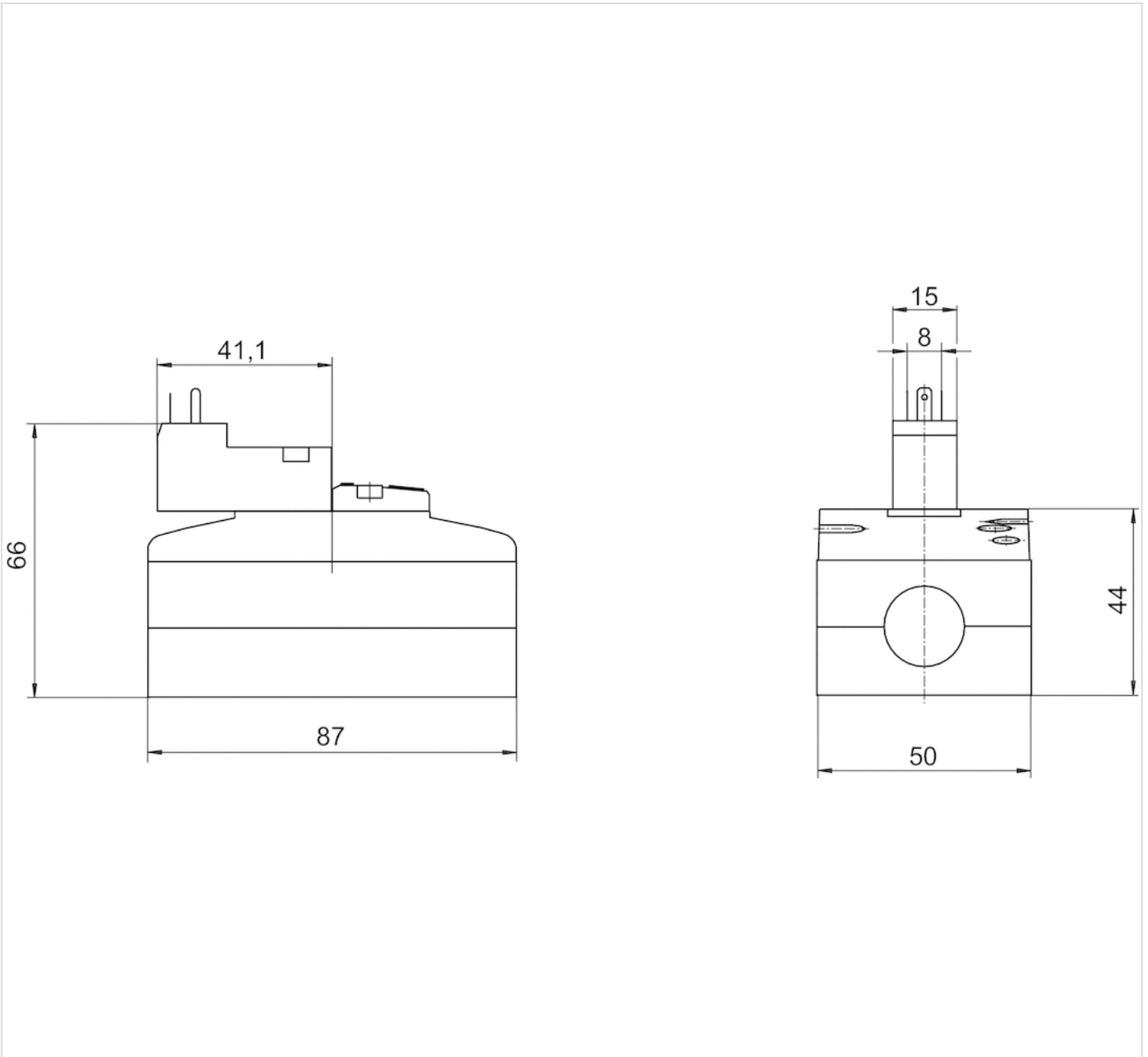
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, ISO 15217, form C
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 13 ms |
| Typ. switch-off time | 13 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,33 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812260130 |  |  | 24 V | -10% / +10% |
| 5812261130 |  |  | 24 V | -10% / +10% |
| 5812262130 |  |  | 24 V | -10% / +10% |
| 5812263130 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5812260130 | 2 W | Internal | 1,5 ... 10 bar |
| 5812261130 | 2 W | Internal | 1,5 ... 10 bar |
| 5812262130 | 2 W | External | -0,95 ... 10 bar |
| 5812263130 | 2 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812260130 | Plug ISO 15217, form C | - |
| 5812261130 | Plug ISO 15217, form C | with throttle |
| 5812262130 | Plug ISO 15217, form C | - |
| 5812263130 | Plug ISO 15217, form C | 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.

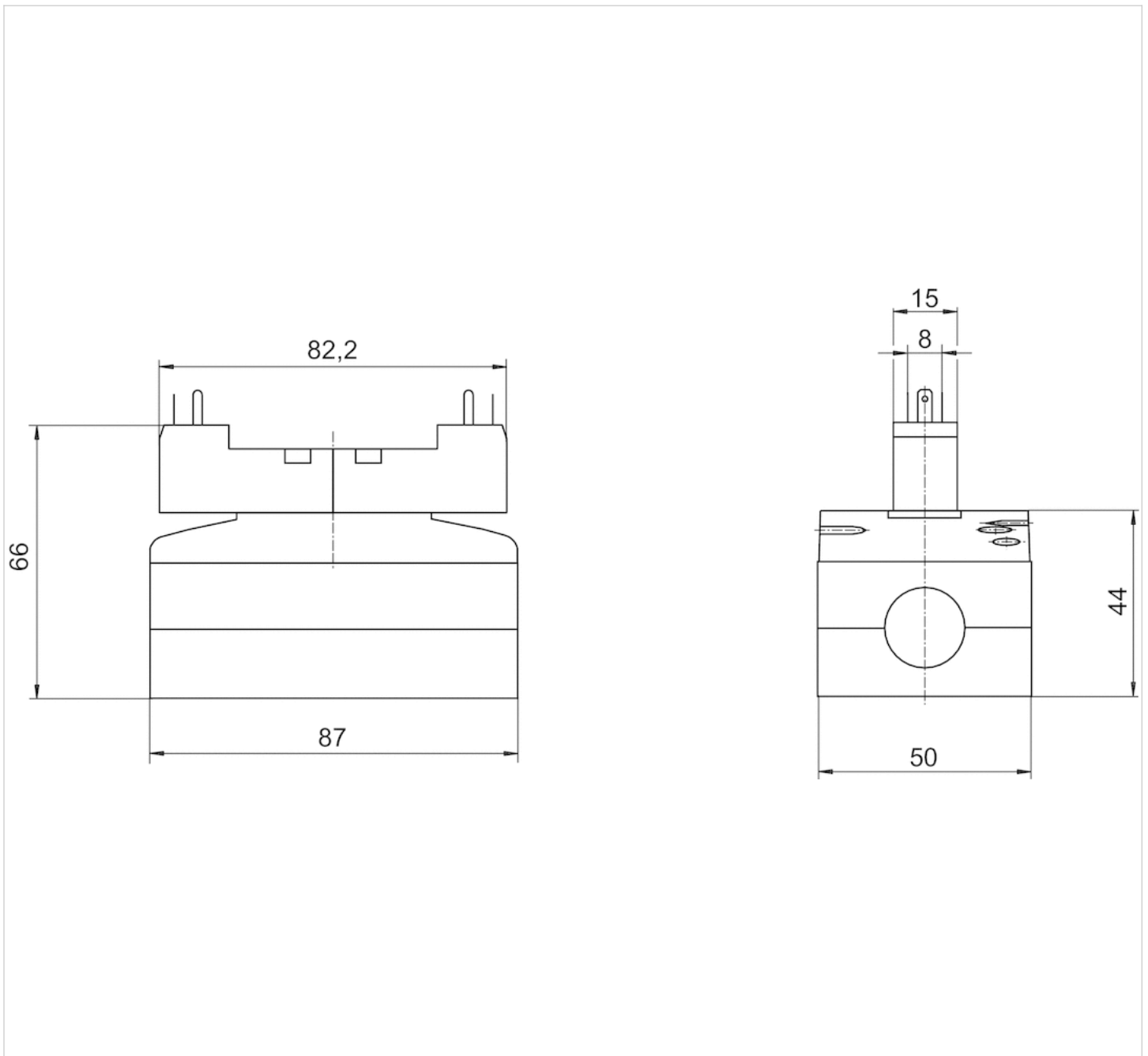
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



























5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, ISO 15217, form C
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 28 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,33 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5812460130 |  |  | closed center | 24 V |
| 5812461130 |  |  | closed center | 24 V |
| 5812462130 |  |  | closed center | 24 V |
| 5812463130 |  |  | closed center | 24 V |
| 5812560130 |  |  | exhausted center | 24 V |
| 5812561130 |  |  | exhausted center | 24 V |
| 5812562130 |  |  | exhausted center | 24 V |
| 5812563130 |  |  | exhausted center | 24 V |
| 5812760130 |  |  | pressurized center | 24 V |
| 5812761130 |  |  | pressurized center | 24 V |
| 5812762130 |  |  | pressurized center | 24 V |
| 5812763130 |  |  | pressurized center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------------------|----------|----------------------------|
| 5812460130 | -10% / +10% | 2 W | Internal | 3 ... 10 bar |
| 5812461130 | -10% / +10% | 2 W | Internal | 3 ... 10 bar |
| 5812462130 | -10% / +10% | 2 W | External | -0,95 ... 10 bar |
| 5812463130 | -10% / +10% | 2 W | External | -0,95 ... 10 bar |
| 5812560130 | -10% / +10% | 2 W | Internal | 3 ... 10 bar |
| 5812561130 | -10% / +10% | 2 W | Internal | 3 ... 10 bar |
| 5812562130 | -10% / +10% | 2 W | External | -0,95 ... 10 bar |
| 5812563130 | -10% / +10% | 2 W | External | -0,95 ... 10 bar |
| 5812760130 | -10% / +10% | 2 W | Internal | 3 ... 10 bar |
| 5812761130 | -10% / +10% | 2 W | Internal | 3 ... 10 bar |
| 5812762130 | -10% / +10% | 2 W | External | -0,95 ... 10 bar |
| 5812763130 | -10% / +10% | 2 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812460130 | Plug ISO 15217, form C | - |
| 5812461130 | Plug ISO 15217, form C | with throttle |
| 5812462130 | Plug ISO 15217, form C | - |
| 5812463130 | Plug ISO 15217, form C | with throttle |
| 5812560130 | Plug ISO 15217, form C | - |
| 5812561130 | Plug ISO 15217, form C | with throttle |
| 5812562130 | Plug ISO 15217, form C | - |
| 5812563130 | Plug ISO 15217, form C | with throttle |
| 5812760130 | Plug ISO 15217, form C | - |
| 5812761130 | Plug ISO 15217, form C | with throttle |
| 5812762130 | Plug ISO 15217, form C | - |
| 5812763130 | Plug ISO 15217, form C | 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.

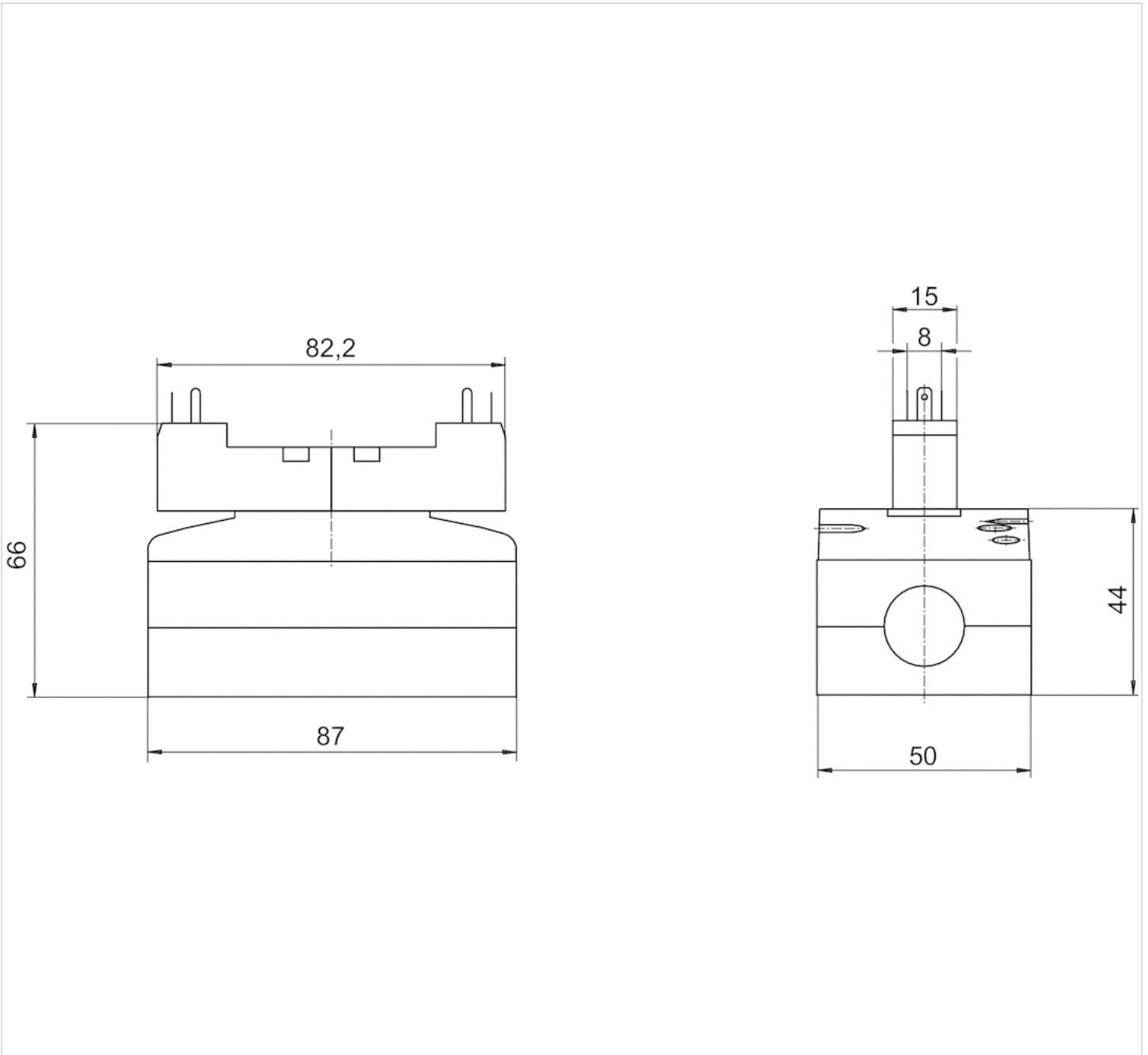
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, 3-pin
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP67 |
| Protective circuit | Z-diode |
| Reverse polarity protection | Protected against polarity reversal |
| LED status display | Green |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 28 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,3 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812150160 |  |  | 24 V | -10% / +10% |
| 5812151160 |  |  | 24 V | -10% / +10% |
| 5812152160 |  |  | 24 V | -10% / +10% |
| 5812153160 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. | Cable length |
|------------|----------------------|----------|----------------------------|--------------|
| 5812150160 | 2,2 W | Internal | 3 ... 10 bar | 0,5 m |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. | Cable length |
|------------|----------------------|----------|----------------------------|--------------|
| 5812151160 | 2,2 W | Internal | 3 ... 10 bar | 0,5 m |
| 5812152160 | 2,2 W | External | -0,95 ... 10 bar | 0,5 m |
| 5812153160 | 2,2 W | External | -0,95 ... 10 bar | 0,5 m |

| Part No. | Electrical connection Pilot valve | Protected against polarity reversal | Throttle |
|------------|-----------------------------------|-------------------------------------|---------------|
| 5812150160 | Plug 3-pin | Protected against polarity reversal | - |
| 5812151160 | Plug 3-pin | Protected against polarity reversal | with throttle |
| 5812152160 | Plug 3-pin | Protected against polarity reversal | - |
| 5812153160 | Plug 3-pin | Protected against polarity reversal | 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.

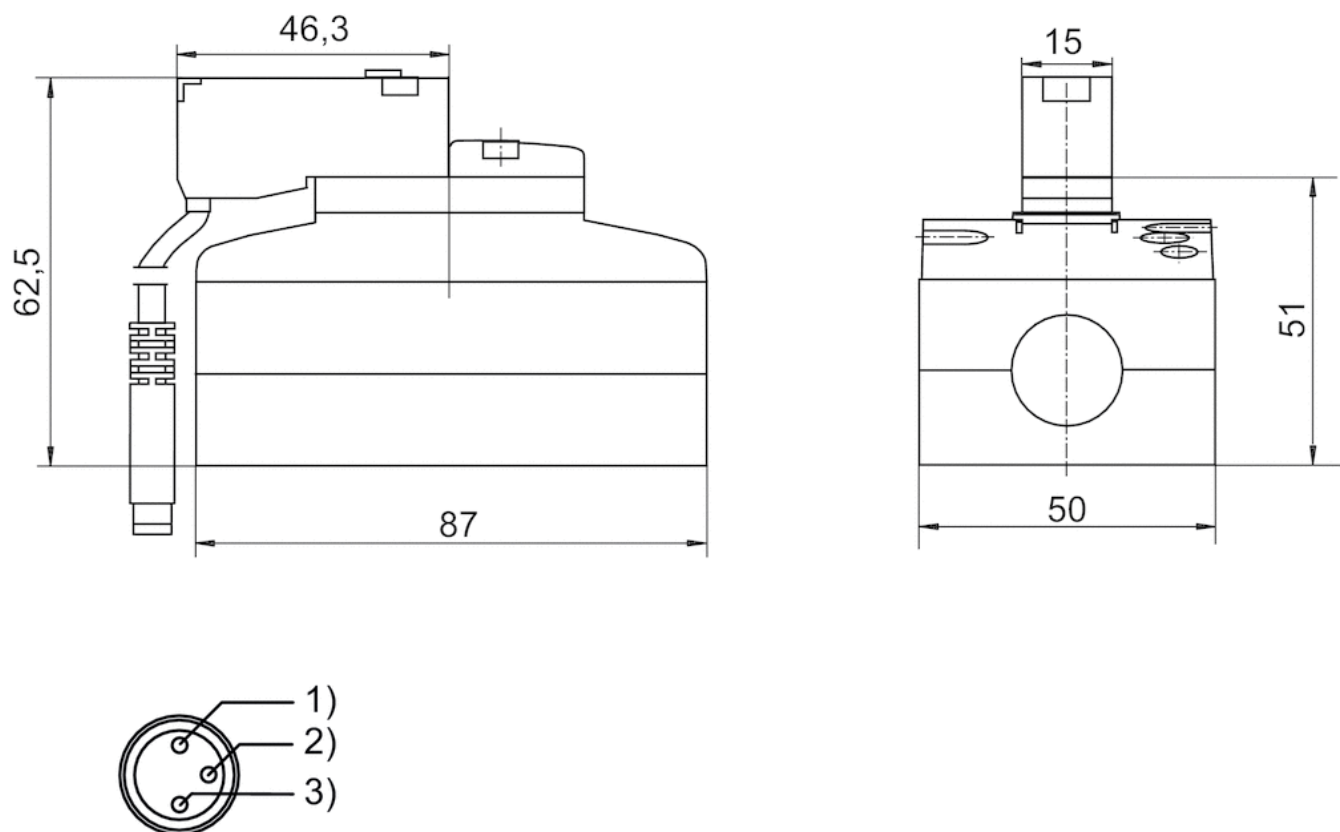
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Pin assignment

- 1) brown (+24 V)
- 2) green/yellow (ground)
- 3) blue (0 V)









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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, 3-pin
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 1,5 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP67 |
| Protective circuit | Z-diode |
| Reverse polarity protection | Protected against polarity reversal |
| LED status display | Green |
| Duty cycle | 100 % |
| Typ. switch-on time | 13 ms |
| Typ. switch-off time | 13 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,33 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812260160 |  |  | 24 V | -10% / +10% |
| 5812261160 |  |  | 24 V | -10% / +10% |
| 5812262160 |  |  | 24 V | -10% / +10% |
| 5812263160 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. | Cable length |
|------------|----------------------|----------|----------------------------|--------------|
| 5812260160 | 2,2 W | Internal | 1,5 ... 10 bar | 0,5 m |
| 5812261160 | 2,2 W | Internal | 1,5 ... 10 bar | 0,5 m |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. | Cable length |
|------------|----------------------|----------|----------------------------|--------------|
| 5812262160 | 2,2 W | External | -0,95 ... 10 bar | 0,5 m |
| 5812263160 | 2,2 W | External | -0,95 ... 10 bar | 0,5 m |

| Part No. | Electrical connection Pilot valve | Protected against polarity reversal | Throttle |
|------------|-----------------------------------|-------------------------------------|---------------|
| 5812260160 | Plug 3-pin | Protected against polarity reversal | - |
| 5812261160 | Plug 3-pin | Protected against polarity reversal | with throttle |
| 5812262160 | Plug 3-pin | Protected against polarity reversal | - |
| 5812263160 | Plug 3-pin | Protected against polarity reversal | 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.

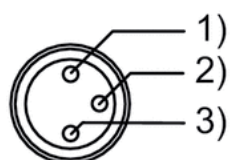
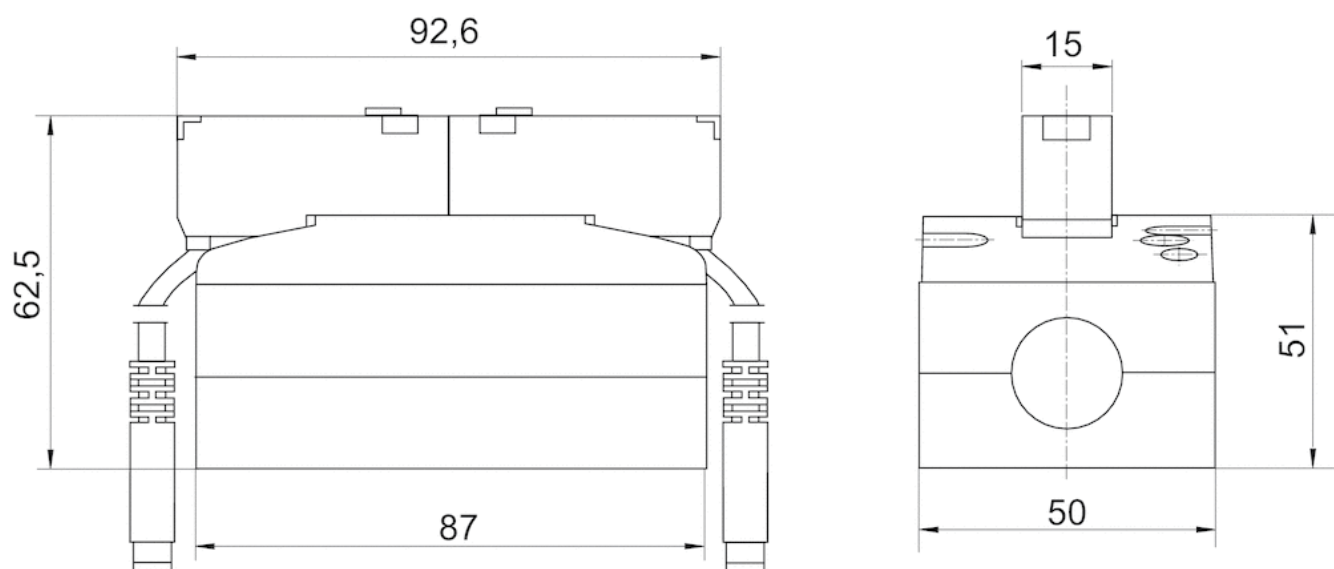
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Pin assignment

- 1) brown (+24 V)
- 2) green/yellow (ground)
- 3) blue (0 V)

























5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, 3-pin
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 3 ... 10 bar |
| Ambient temperature min./max. | -10 ... 50 °C |
| Medium temperature min./max. | -10 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 50 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Nominal flow Q_n | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP67 |
| Protective circuit | Z-diode |
| Reverse polarity protection | Protected against polarity reversal |
| LED status display | Green |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 28 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,33 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5812460160 |  |  | closed center | 24 V |
| 5812461160 |  |  | closed center | 24 V |
| 5812462160 |  |  | closed center | 24 V |
| 5812463160 |  |  | closed center | 24 V |
| 5812560160 |  |  | exhausted center | 24 V |
| 5812561160 |  |  | exhausted center | 24 V |
| 5812562160 |  |  | exhausted center | 24 V |
| 5812563160 |  |  | exhausted center | 24 V |
| 5812760160 |  |  | pressurized center | 24 V |
| 5812761160 |  |  | pressurized center | 24 V |
| 5812762160 |  |  | pressurized center | 24 V |
| 5812763160 |  |  | pressurized center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------------------|----------|----------------------------|
| 5812460160 | -10% / +10% | 2,2 W | Internal | 3 ... 10 bar |
| 5812461160 | -10% / +10% | 2,2 W | Internal | 3 ... 10 bar |
| 5812462160 | -10% / +10% | 2,2 W | External | -0,95 ... 10 bar |
| 5812463160 | -10% / +10% | 2,2 W | External | -0,95 ... 10 bar |
| 5812560160 | -10% / +10% | 2,2 W | Internal | 3 ... 10 bar |
| 5812561160 | -10% / +10% | 2,2 W | Internal | 3 ... 10 bar |
| 5812562160 | -10% / +10% | 2,2 W | External | -0,95 ... 10 bar |
| 5812563160 | -10% / +10% | 2,2 W | External | -0,95 ... 10 bar |
| 5812760160 | -10% / +10% | 2,2 W | Internal | 3 ... 10 bar |
| 5812761160 | -10% / +10% | 2,2 W | Internal | 3 ... 10 bar |
| 5812762160 | -10% / +10% | 2,2 W | External | -0,95 ... 10 bar |
| 5812763160 | -10% / +10% | 2,2 W | External | -0,95 ... 10 bar |

| Part No. | Cable length | Electrical connection Pilot valve | Protected against polarity reversal |
|------------|--------------|-----------------------------------|-------------------------------------|
| 5812460160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812461160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812462160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812463160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812560160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812561160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812562160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812563160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812760160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812761160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812762160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |
| 5812763160 | 0,5 m | Plug 3-pin | Protected against polarity reversal |

| Part No. | Throttle |
|------------|---------------|
| 5812460160 | - |
| 5812461160 | with throttle |
| 5812462160 | - |
| 5812463160 | with throttle |
| 5812560160 | - |
| 5812561160 | with throttle |
| 5812562160 | - |
| 5812563160 | with throttle |
| 5812760160 | - |
| 5812761160 | with throttle |
| 5812762160 | - |
| 5812763160 | 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.

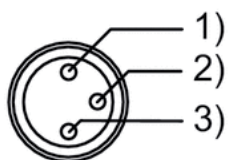
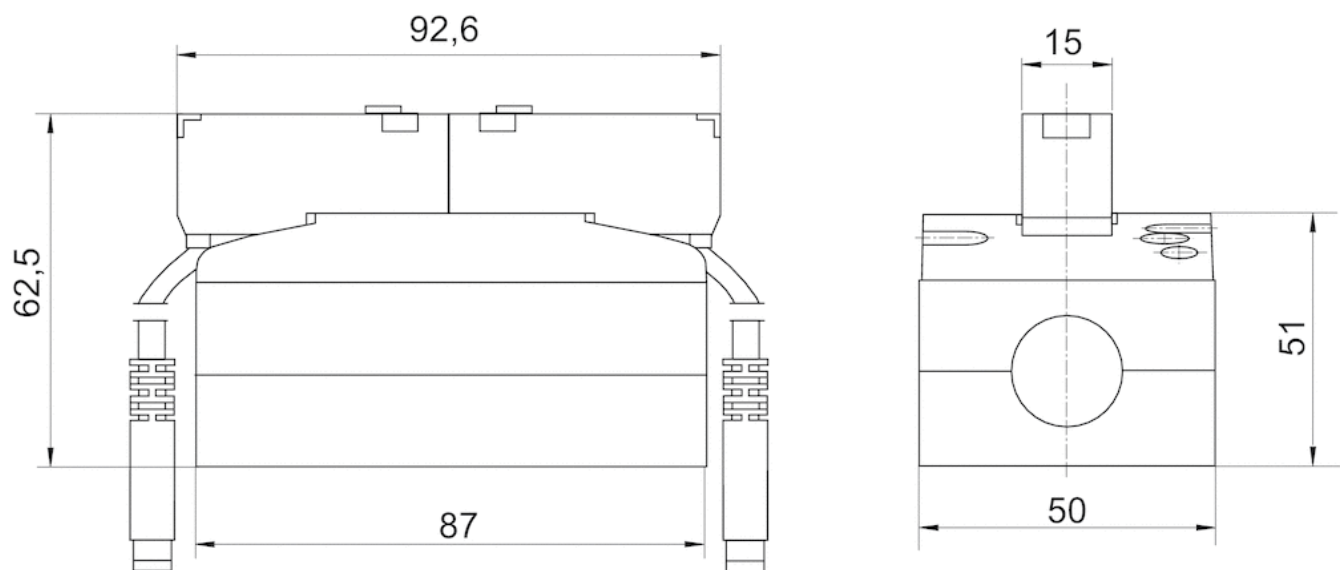
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Pin assignment

- 1) brown (+24 V)
- 2) green/yellow (ground)
- 3) blue (0 V)

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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 46 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,34 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|--|----|------------------------|------------------------------|
| 5812110500 | | | 12 V | - |
| 5812110200 | | | - | 24 V |
| 5812110100 | | | 24 V | - |
| 5812110600 | | | 48 V | - |
| 5812110300 | | | - | - |
| 5812110400 | | | - | 230 V |
| 5812110000 | | | - | - |
| 5812111500 | | | 12 V | - |
| 5812111200 | | | - | 24 V |
| 5812111100 | | | 24 V | - |
| 5812111600 | | | 48 V | - |
| 5812111300 | | | - | - |
| 5812111400 | | | - | 230 V |
| 5812111000 | | | - | - |
| 5812112500 | | | 12 V | - |
| 5812112200 | | | - | 24 V |
| 5812112100 | | | 24 V | - |
| 5812112600 | | | 48 V | - |
| 5812112300 | | | - | - |
| 5812112400 | | | - | 230 V |
| 5812112000 | | | - | - |
| 5812113500 | | | 12 V | - |
| 5812113200 | | | - | 24 V |
| 5812113100 | | | 24 V | - |
| 5812113600 | | | 48 V | - |
| 5812113300 | | | - | - |
| 5812113400 | | | - | 230 V |
| 5812113000 | | | - | - |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|------------------------------|----------------------|----------------------------|----------------------------|
| 5812110500 | - | -10% / +10% | - | - |
| 5812110200 | - | - | -10% / +10% | - |
| 5812110100 | - | -10% / +10% | - | - |
| 5812110600 | - | -10% / +10% | - | - |
| 5812110300 | 110 V | - | - | -10% / +10% |
| 5812110400 | - | - | -10% / +10% | - |
| 5812110000 | - | - | - | - |
| 5812111500 | - | -10% / +10% | - | - |
| 5812111200 | - | - | -10% / +10% | - |
| 5812111100 | - | -10% / +10% | - | - |
| 5812111600 | - | -10% / +10% | - | - |
| 5812111300 | 110 V | - | - | -10% / +10% |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|
| 5812111400 | - | - | -10% / +10% | - |
| 5812111000 | - | - | - | - |
| 5812112500 | - | -10% / +10% | - | - |
| 5812112200 | - | - | -10% / +10% | - |
| 5812112100 | - | -10% / +10% | - | - |
| 5812112600 | - | -10% / +10% | - | - |
| 5812112300 | 110 V | - | - | -10% / +10% |
| 5812112400 | - | - | -10% / +10% | - |
| 5812112000 | - | - | - | - |
| 5812113500 | - | -10% / +10% | - | - |
| 5812113200 | - | - | -10% / +10% | - |
| 5812113100 | - | -10% / +10% | - | - |
| 5812113600 | - | -10% / +10% | - | - |
| 5812113300 | 110 V | - | - | -10% / +10% |
| 5812113400 | - | - | -10% / +10% | - |
| 5812113000 | - | - | - | - |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Holding power AC 60 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| 5812110500 | 5 W | - | - | - |
| 5812110200 | - | 8 VA | - | 10 VA |
| 5812110100 | 5 W | - | - | - |
| 5812110600 | 5 W | - | - | - |
| 5812110300 | - | - | 8 VA | - |
| 5812110400 | - | 8 VA | - | 10 VA |
| 5812110000 | - | - | - | - |
| 5812111500 | 5 W | - | - | - |
| 5812111200 | - | 8 VA | - | 10 VA |
| 5812111100 | 5 W | - | - | - |
| 5812111600 | 5 W | - | - | - |
| 5812111300 | - | - | 8 VA | - |
| 5812111400 | - | 8 VA | - | 10 VA |
| 5812111000 | - | - | - | - |
| 5812112500 | 5 W | - | - | - |
| 5812112200 | - | 8 VA | - | 10 VA |
| 5812112100 | 5 W | - | - | - |
| 5812112600 | 5 W | - | - | - |
| 5812112300 | - | - | 8 VA | - |
| 5812112400 | - | 8 VA | - | 10 VA |
| 5812112000 | - | - | - | - |
| 5812113500 | 5 W | - | - | - |
| 5812113200 | - | 8 VA | - | 10 VA |
| 5812113100 | 5 W | - | - | - |
| 5812113600 | 5 W | - | - | - |
| 5812113300 | - | - | 8 VA | - |
| 5812113400 | - | 8 VA | - | 10 VA |
| 5812113000 | - | - | - | - |

| Part No. | Switch-on power AC 60 Hz | Pilot | Working pressure min./max. | Electrical connection Pilot valve |
|------------|-----------------------------|----------|----------------------------|--------------------------------------|
| 5812110500 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812110200 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812110100 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812110600 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812110300 | 10 VA | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812110400 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812110000 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111500 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111200 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111100 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111600 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111300 | 10 VA | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111400 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812111000 | - | Internal | 3 ... 10 bar | Plug Form B, industry |
| 5812112500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812112200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812112100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812112600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812112300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812112400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812112000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812113000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5812110500 | - | - |
| 5812110200 | - | - |
| 5812110100 | - | - |
| 5812110600 | - | - |
| 5812110300 | - | - |
| 5812110400 | - | - |
| 5812110000 | Basic valve without coil | - |
| 5812111500 | - | with throttle |
| 5812111200 | - | with throttle |
| 5812111100 | - | with throttle |
| 5812111600 | - | with throttle |
| 5812111300 | - | with throttle |
| 5812111400 | - | with throttle |
| 5812111000 | Basic valve without coil | with throttle |
| 5812112500 | - | - |
| 5812112200 | - | - |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5812112100 | - | - |
| 5812112600 | - | - |
| 5812112300 | - | - |
| 5812112400 | - | - |
| 5812112000 | Basic valve without coil | - |
| 5812113500 | - | with throttle |
| 5812113200 | - | with throttle |
| 5812113100 | - | with throttle |
| 5812113600 | - | with throttle |
| 5812113300 | - | with throttle |
| 5812113400 | - | with throttle |
| 5812113000 | 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

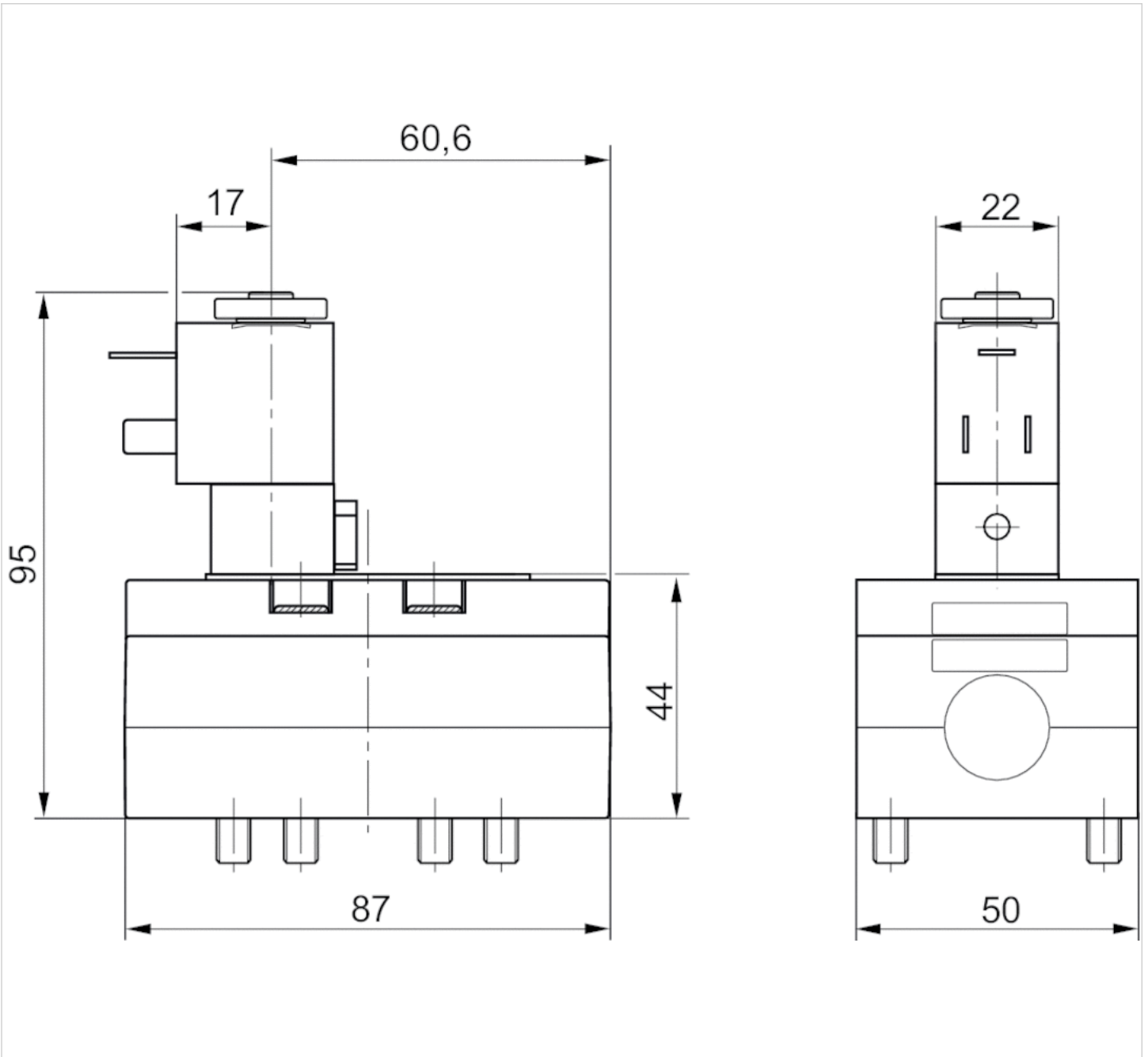
Technical information

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 | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions



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

























































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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700$ 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 12 ms |
| Typ. switch-off time | 12 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5812220500 |  |  | 12 V | - |
| 5812220200 |  |  | - | 24 V |
| 5812220100 |  |  | 24 V | - |
| 5812220600 |  |  | 48 V | - |
| 5812220300 |  |  | - | - |
| 5812220400 |  |  | - | 230 V |
| 5812220000 |  |  | - | - |
| 5812221500 |  |  | 12 V | - |
| 5812221200 |  |  | - | 24 V |
| 5812221100 |  |  | 24 V | - |
| 5812221600 |  |  | 48 V | - |
| 5812221300 |  |  | - | - |
| 5812221400 |  |  | - | 230 V |
| 5812221000 |  |  | - | - |
| 5812222500 |  |  | 12 V | - |
| 5812222200 |  |  | - | 24 V |
| 5812222100 |  |  | 24 V | - |
| 5812222600 |  |  | 48 V | - |
| 5812222300 |  |  | - | - |
| 5812222400 |  |  | - | 230 V |
| 5812222000 |  |  | - | - |
| 5812223500 |  |  | 12 V | - |
| 5812223200 |  |  | - | 24 V |
| 5812223100 |  |  | 24 V | - |
| 5812223600 |  |  | 48 V | - |
| 5812223300 |  |  | - | - |
| 5812223400 |  |  | - | 230 V |
| 5812223000 |  |  | - | - |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|------------------------------|----------------------|----------------------------|----------------------------|
| 5812220500 | - | -10% / +10% | - | - |
| 5812220200 | - | - | -10% / +10% | - |
| 5812220100 | - | -10% / +10% | - | - |
| 5812220600 | - | -10% / +10% | - | - |
| 5812220300 | 110 V | - | - | -10% / +10% |
| 5812220400 | - | - | -10% / +10% | - |
| 5812220000 | - | - | - | - |
| 5812221500 | - | -10% / +10% | - | - |
| 5812221200 | - | - | -10% / +10% | - |
| 5812221100 | - | -10% / +10% | - | - |
| 5812221600 | - | -10% / +10% | - | - |
| 5812221300 | 110 V | - | - | -10% / +10% |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|
| 5812221400 | - | - | -10% / +10% | - |
| 5812221000 | - | - | - | - |
| 5812222500 | - | -10% / +10% | - | - |
| 5812222200 | - | - | -10% / +10% | - |
| 5812222100 | - | -10% / +10% | - | - |
| 5812222600 | - | -10% / +10% | - | - |
| 5812222300 | 110 V | - | - | -10% / +10% |
| 5812222400 | - | - | -10% / +10% | - |
| 5812222000 | - | - | - | - |
| 5812223500 | - | -10% / +10% | - | - |
| 5812223200 | - | - | -10% / +10% | - |
| 5812223100 | - | -10% / +10% | - | - |
| 5812223600 | - | -10% / +10% | - | - |
| 5812223300 | 110 V | - | - | -10% / +10% |
| 5812223400 | - | - | -10% / +10% | - |
| 5812223000 | - | - | - | - |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Holding power AC 60 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| 5812220500 | 5 W | - | - | - |
| 5812220200 | - | 8 VA | - | 10 VA |
| 5812220100 | 5 W | - | - | - |
| 5812220600 | 5 W | - | - | - |
| 5812220300 | - | - | 8 VA | - |
| 5812220400 | - | 8 VA | - | 10 VA |
| 5812220000 | - | - | - | - |
| 5812221500 | 5 W | - | - | - |
| 5812221200 | - | 8 VA | - | 10 VA |
| 5812221100 | 5 W | - | - | - |
| 5812221600 | 5 W | - | - | - |
| 5812221300 | - | - | 8 VA | - |
| 5812221400 | - | 8 VA | - | 10 VA |
| 5812221000 | - | - | - | - |
| 5812222500 | 5 W | - | - | - |
| 5812222200 | - | 8 VA | - | 10 VA |
| 5812222100 | 5 W | - | - | - |
| 5812222600 | 5 W | - | - | - |
| 5812222300 | - | - | 8 VA | - |
| 5812222400 | - | 8 VA | - | 10 VA |
| 5812222000 | - | - | - | - |
| 5812223500 | 5 W | - | - | - |
| 5812223200 | - | 8 VA | - | 10 VA |
| 5812223100 | 5 W | - | - | - |
| 5812223600 | 5 W | - | - | - |
| 5812223300 | - | - | 8 VA | - |
| 5812223400 | - | 8 VA | - | 10 VA |
| 5812223000 | - | - | - | - |

| Part No. | Switch-on power AC 60 Hz | Pilot | Working pressure min./max. | Electrical connection Pilot valve |
|------------|-----------------------------|----------|----------------------------|--------------------------------------|
| 5812220500 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812220200 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812220100 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812220600 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812220300 | 10 VA | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812220400 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812220000 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221500 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221200 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221100 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221600 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221300 | 10 VA | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221400 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812221000 | - | Internal | 1,5 ... 10 bar | Plug Form B, industry |
| 5812222500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812222200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812222100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812222600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812222300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812222400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812222000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223500 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223200 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223100 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223600 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223300 | 10 VA | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223400 | - | External | -0,95 ... 10 bar | Plug Form B, industry |
| 5812223000 | - | External | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5812220500 | - | - |
| 5812220200 | - | - |
| 5812220100 | - | - |
| 5812220600 | - | - |
| 5812220300 | - | - |
| 5812220400 | - | - |
| 5812220000 | Basic valve without coil | - |
| 5812221500 | - | with throttle |
| 5812221200 | - | with throttle |
| 5812221100 | - | with throttle |
| 5812221600 | - | with throttle |
| 5812221300 | - | with throttle |
| 5812221400 | - | with throttle |
| 5812221000 | Basic valve without coil | with throttle |
| 5812222500 | - | - |
| 5812222200 | - | - |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5812222100 | - | - |
| 5812222600 | - | - |
| 5812222300 | - | - |
| 5812222400 | - | - |
| 5812222000 | Basic valve without coil | - |
| 5812223500 | - | with throttle |
| 5812223200 | - | with throttle |
| 5812223100 | - | with throttle |
| 5812223600 | - | with throttle |
| 5812223300 | - | with throttle |
| 5812223400 | - | with throttle |
| 5812223000 | 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.

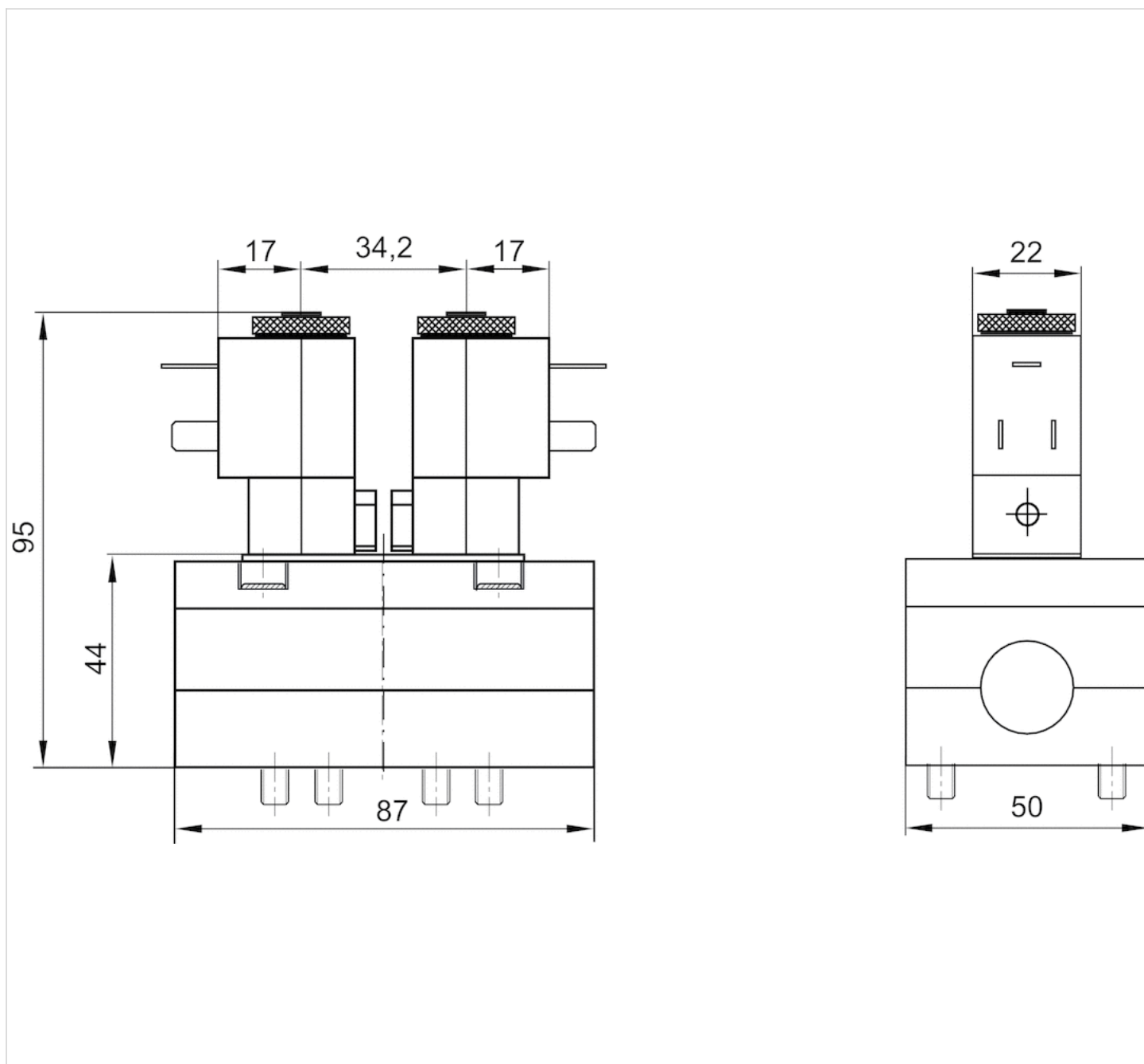
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



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

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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 12 ms |
| Typ. switch-off time | See table below |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,34 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|--|----|------------------------|------------------------------|
| 5812610500 | | | 12 V | - |
| 5812610200 | | | - | 24 V |
| 5812610100 | | | 24 V | - |
| 5812610600 | | | 48 V | - |
| 5812610300 | | | - | - |
| 5812610400 | | | - | 230 V |
| 5812610000 | | | - | - |
| 5812611500 | | | 12 V | - |
| 5812611200 | | | - | 24 V |
| 5812611100 | | | 24 V | - |
| 5812611600 | | | 48 V | - |
| 5812611300 | | | - | - |
| 5812611400 | | | - | 230 V |
| 5812611000 | | | - | - |
| 5812612500 | | | 12 V | - |
| 5812612200 | | | - | 24 V |
| 5812612100 | | | 24 V | - |
| 5812612600 | | | 48 V | - |
| 5812612300 | | | - | - |
| 5812612400 | | | - | 230 V |
| 5812612000 | | | - | - |
| 5812613500 | | | 12 V | - |
| 5812613200 | | | - | 24 V |
| 5812613100 | | | 24 V | - |
| 5812613600 | | | 48 V | - |
| 5812613300 | | | - | - |
| 5812613400 | | | - | 230 V |
| 5812613000 | | | - | - |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|------------------------------|----------------------|----------------------------|----------------------------|
| 5812610500 | - | -10% / +10% | - | - |
| 5812610200 | - | - | -10% / +10% | - |
| 5812610100 | - | -10% / +10% | - | - |
| 5812610600 | - | -10% / +10% | - | - |
| 5812610300 | 110 V | - | - | -10% / +10% |
| 5812610400 | - | - | -10% / +10% | - |
| 5812610000 | - | - | - | - |
| 5812611500 | - | -10% / +10% | - | - |
| 5812611200 | - | - | -10% / +10% | - |
| 5812611100 | - | -10% / +10% | - | - |
| 5812611600 | - | -10% / +10% | - | - |
| 5812611300 | 110 V | - | - | -10% / +10% |

| Part No. | Operational voltage AC 60 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|-------------------------------|
| 5812611400 | - | - | -10% / +10% | - |
| 5812611000 | - | - | - | - |
| 5812612500 | - | -10% / +10% | - | - |
| 5812612200 | - | - | -10% / +10% | - |
| 5812612100 | - | -10% / +10% | - | - |
| 5812612600 | - | -10% / +10% | - | - |
| 5812612300 | 110 V | - | - | -10% / +10% |
| 5812612400 | - | - | -10% / +10% | - |
| 5812612000 | - | - | - | - |
| 5812613500 | - | -10% / +10% | - | - |
| 5812613200 | - | - | -10% / +10% | - |
| 5812613100 | - | -10% / +10% | - | - |
| 5812613600 | - | -10% / +10% | - | - |
| 5812613300 | 110 V | - | - | -10% / +10% |
| 5812613400 | - | - | -10% / +10% | - |
| 5812613000 | - | - | - | - |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Holding power AC 60 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------|---------------------------|---------------------------|-----------------------------|
| 5812610500 | 5 W | - | - | - |
| 5812610200 | - | 8 VA | - | 10 VA |
| 5812610100 | 5 W | - | - | - |
| 5812610600 | 5 W | - | - | - |
| 5812610300 | - | - | 8 VA | - |
| 5812610400 | - | 8 VA | - | 10 VA |
| 5812610000 | - | - | - | - |
| 5812611500 | 5 W | - | - | - |
| 5812611200 | - | 8 VA | - | 10 VA |
| 5812611100 | 5 W | - | - | - |
| 5812611600 | 5 W | - | - | - |
| 5812611300 | - | - | 8 VA | - |
| 5812611400 | - | 8 VA | - | 10 VA |
| 5812611000 | - | - | - | - |
| 5812612500 | 5 W | - | - | - |
| 5812612200 | - | 8 VA | - | 10 VA |
| 5812612100 | 5 W | - | - | - |
| 5812612600 | 5 W | - | - | - |
| 5812612300 | - | - | 8 VA | - |
| 5812612400 | - | 8 VA | - | 10 VA |
| 5812612000 | - | - | - | - |
| 5812613500 | 5 W | - | - | - |
| 5812613200 | - | 8 VA | - | 10 VA |
| 5812613100 | 5 W | - | - | - |
| 5812613600 | 5 W | - | - | - |
| 5812613300 | - | - | 8 VA | - |
| 5812613400 | - | 8 VA | - | 10 VA |
| 5812613000 | - | - | - | - |

| Part No. | Switch-on power AC 60 Hz | Pilot | Working pressure min./max. | Typ. switch-off time |
|------------|-----------------------------|----------|----------------------------|----------------------|
| 5812610500 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812610200 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812610100 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812610600 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812610300 | 10 VA | Internal | 2,7 ... 10 bar | 41 ms |
| 5812610400 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812610000 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611500 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611200 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611100 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611600 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611300 | 10 VA | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611400 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812611000 | - | Internal | 2,7 ... 10 bar | 41 ms |
| 5812612500 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812612200 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812612100 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812612600 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812612300 | 10 VA | External | -0,95 ... 10 bar | 30 ms |
| 5812612400 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812612000 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812613500 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812613200 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812613100 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812613600 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812613300 | 10 VA | External | -0,95 ... 10 bar | 30 ms |
| 5812613400 | - | External | -0,95 ... 10 bar | 30 ms |
| 5812613000 | - | External | -0,95 ... 10 bar | 30 ms |

| Part No. | Electrical connection Pilot valve | basic valve with electrical connector | Throttle |
|------------|--------------------------------------|---------------------------------------|---------------|
| 5812610500 | Plug Form B, industry | - | - |
| 5812610200 | Plug Form B, industry | - | - |
| 5812610100 | Plug Form B, industry | - | - |
| 5812610600 | Plug Form B, industry | - | - |
| 5812610300 | Plug Form B, industry | - | - |
| 5812610400 | Plug Form B, industry | - | - |
| 5812610000 | Plug Form B, industry | Basic valve without coil | - |
| 5812611500 | Plug Form B, industry | - | with throttle |
| 5812611200 | Plug Form B, industry | - | with throttle |
| 5812611100 | Plug Form B, industry | - | with throttle |
| 5812611600 | Plug Form B, industry | - | with throttle |
| 5812611300 | Plug Form B, industry | - | with throttle |
| 5812611400 | Plug Form B, industry | - | with throttle |
| 5812611000 | Plug Form B, industry | Basic valve without coil | with throttle |
| 5812612500 | Plug Form B, industry | - | - |
| 5812612200 | Plug Form B, industry | - | - |

| Part No. | Electrical connection Pilot valve | basic valve with electrical connector | Throttle |
|------------|--------------------------------------|---------------------------------------|---------------|
| 5812612100 | Plug Form B, industry | - | - |
| 5812612600 | Plug Form B, industry | - | - |
| 5812612300 | Plug Form B, industry | - | - |
| 5812612400 | Plug Form B, industry | - | - |
| 5812612000 | Plug Form B, industry | Basic valve without coil | - |
| 5812613500 | Plug Form B, industry | - | with throttle |
| 5812613200 | Plug Form B, industry | - | with throttle |
| 5812613100 | Plug Form B, industry | - | with throttle |
| 5812613600 | Plug Form B, industry | - | with throttle |
| 5812613300 | Plug Form B, industry | - | with throttle |
| 5812613400 | Plug Form B, industry | - | with throttle |
| 5812613000 | Plug Form B, industry | 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

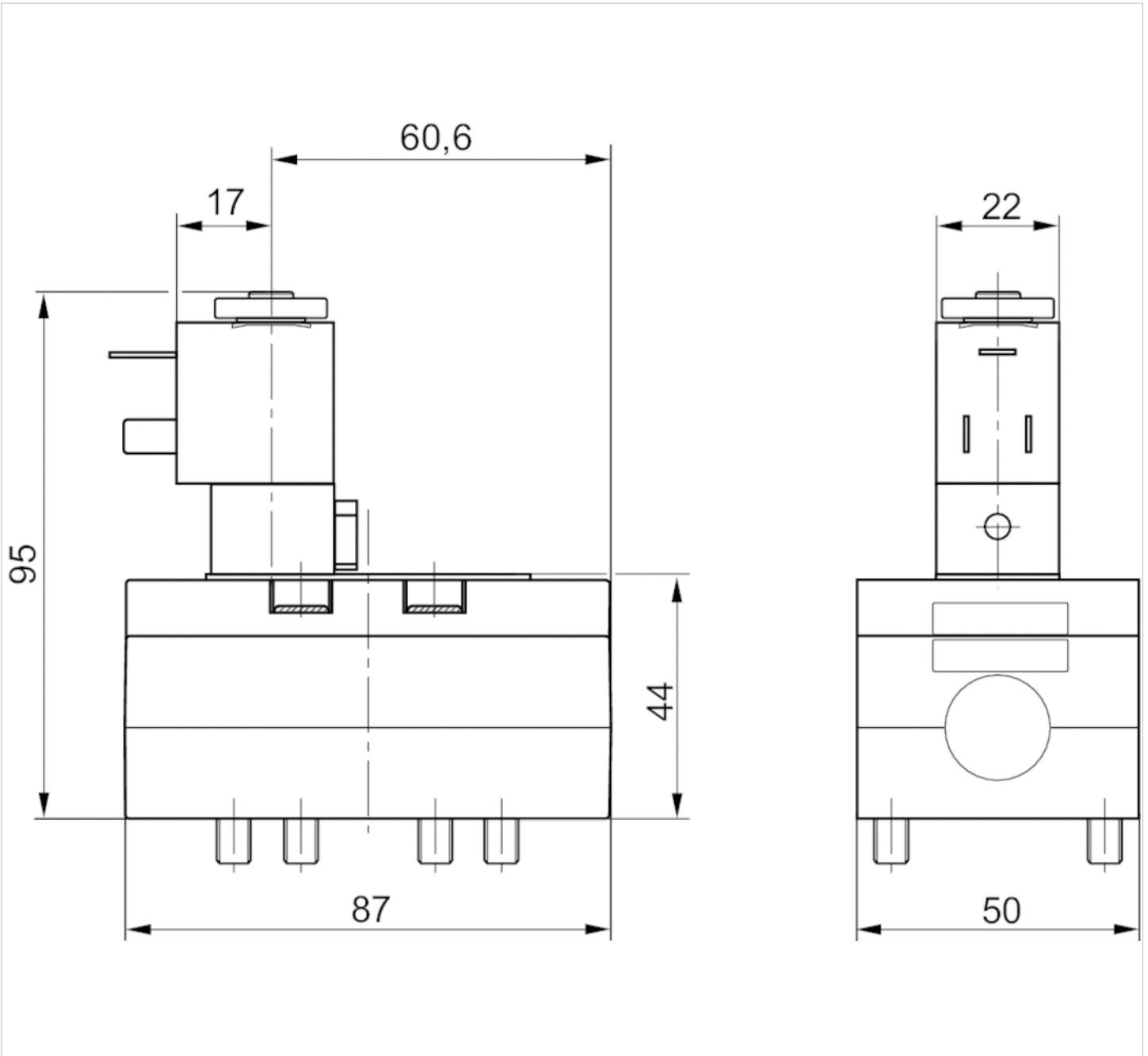
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



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

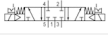

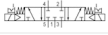

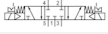



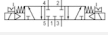

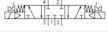



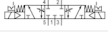

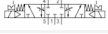

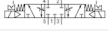

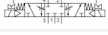

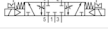

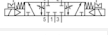

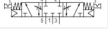

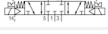



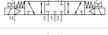



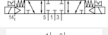

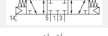

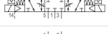

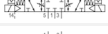

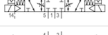

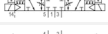

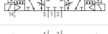

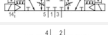



5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center
- $Q_n = 2100$ 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 19 ms |
| Typ. switch-off time | 42 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|---------------|------------------------|
| 5812420500 |  |  | closed center | 12 V |
| 5812420200 |  |  | closed center | - |
| 5812420100 |  |  | closed center | 24 V |
| 5812420600 |  |  | closed center | 48 V |
| 5812420300 |  |  | closed center | - |
| 5812420400 |  |  | closed center | - |
| 5812420000 |  |  | closed center | - |
| 5812421500 |  |  | closed center | 12 V |
| 5812421200 |  |  | closed center | - |
| 5812421100 |  |  | closed center | 24 V |
| 5812421600 |  |  | closed center | 48 V |
| 5812421300 |  |  | closed center | - |
| 5812421400 |  |  | closed center | - |
| 5812421000 |  |  | closed center | - |
| 5812422500 |  |  | closed center | 12 V |
| 5812422200 |  |  | closed center | - |
| 5812422600 |  |  | closed center | 48 V |
| 5812422300 |  |  | closed center | - |
| 5812422400 |  |  | closed center | - |
| 5812422000 |  |  | closed center | - |
| 5812423500 |  |  | closed center | 12 V |
| 5812423200 |  |  | closed center | - |
| 5812423100 |  |  | closed center | 24 V |
| 5812423600 |  |  | closed center | 48 V |
| 5812423300 |  |  | closed center | - |
| 5812423400 |  |  | closed center | - |
| 5812423000 |  |  | closed center | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|------------------------------|------------------------------|----------------------|
| 5812420500 | - | - | -10% / +10% |
| 5812420200 | 24 V | - | - |
| 5812420100 | - | - | -10% / +10% |
| 5812420600 | - | - | -10% / +10% |
| 5812420300 | - | 110 V | - |
| 5812420400 | 230 V | - | - |
| 5812420000 | - | - | - |
| 5812421500 | - | - | -10% / +10% |
| 5812421200 | 24 V | - | - |
| 5812421100 | - | - | -10% / +10% |
| 5812421600 | - | - | -10% / +10% |
| 5812421300 | - | 110 V | - |
| 5812421400 | 230 V | - | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|---------------------------------|---------------------------------|-------------------------|
| 5812421000 | - | - | - |
| 5812422500 | - | - | -10% / +10% |
| 5812422200 | 24 V | - | - |
| 5812422600 | - | - | -10% / +10% |
| 5812422300 | - | 110 V | - |
| 5812422400 | 230 V | - | - |
| 5812422000 | - | - | - |
| 5812423500 | - | - | -10% / +10% |
| 5812423200 | 24 V | - | - |
| 5812423100 | - | - | -10% / +10% |
| 5812423600 | - | - | -10% / +10% |
| 5812423300 | - | 110 V | - |
| 5812423400 | 230 V | - | - |
| 5812423000 | - | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|-------------------------------|-------------------------------|-------------------------|---------------------------|
| 5812420500 | - | - | 5 W | - |
| 5812420200 | -10% / +10% | - | - | 8 VA |
| 5812420100 | - | - | 5 W | - |
| 5812420600 | - | - | 5 W | - |
| 5812420300 | - | -10% / +10% | - | - |
| 5812420400 | -10% / +10% | - | - | 8 VA |
| 5812420000 | - | - | - | - |
| 5812421500 | - | - | 5 W | - |
| 5812421200 | -10% / +10% | - | - | 8 VA |
| 5812421100 | - | - | 5 W | - |
| 5812421600 | - | - | 5 W | - |
| 5812421300 | - | -10% / +10% | - | - |
| 5812421400 | -10% / +10% | - | - | 8 VA |
| 5812421000 | - | - | - | - |
| 5812422500 | - | - | 5 W | - |
| 5812422200 | -10% / +10% | - | - | 8 VA |
| 5812422600 | - | - | 5 W | - |
| 5812422300 | - | -10% / +10% | - | - |
| 5812422400 | -10% / +10% | - | - | 8 VA |
| 5812422000 | - | - | - | - |
| 5812423500 | - | - | 5 W | - |
| 5812423200 | -10% / +10% | - | - | 8 VA |
| 5812423100 | - | - | 5 W | - |
| 5812423600 | - | - | 5 W | - |
| 5812423300 | - | -10% / +10% | - | - |
| 5812423400 | -10% / +10% | - | - | 8 VA |
| 5812423000 | - | - | - | - |

| Part No. | Holding power AC 60 Hz | Switch-on power AC 50 Hz | Switch-on power AC 60 Hz | Pilot |
|------------|---------------------------|-----------------------------|-----------------------------|----------|
| 5812420500 | - | - | - | Internal |
| 5812420200 | - | 10 VA | - | Internal |
| 5812420100 | - | - | - | Internal |
| 5812420600 | - | - | - | Internal |
| 5812420300 | 8 VA | - | 10 VA | Internal |
| 5812420400 | - | 10 VA | - | Internal |
| 5812420000 | - | - | - | Internal |
| 5812421500 | - | - | - | Internal |
| 5812421200 | - | 10 VA | - | Internal |
| 5812421100 | - | - | - | Internal |
| 5812421600 | - | - | - | Internal |
| 5812421300 | 8 VA | - | 10 VA | Internal |
| 5812421400 | - | 10 VA | - | Internal |
| 5812421000 | - | - | - | Internal |
| 5812422500 | - | - | - | External |
| 5812422200 | - | 10 VA | - | External |
| 5812422600 | - | - | - | External |
| 5812422300 | 8 VA | - | 10 VA | External |
| 5812422400 | - | 10 VA | - | External |
| 5812422000 | - | - | - | External |
| 5812423500 | - | - | - | External |
| 5812423200 | - | 10 VA | - | External |
| 5812423100 | - | - | - | External |
| 5812423600 | - | - | - | External |
| 5812423300 | 8 VA | - | 10 VA | External |
| 5812423400 | - | 10 VA | - | External |
| 5812423000 | - | - | - | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5812420500 | 3 ... 10 bar | Plug Form B, industry |
| 5812420200 | 3 ... 10 bar | Plug Form B, industry |
| 5812420100 | 3 ... 10 bar | Plug Form B, industry |
| 5812420600 | 3 ... 10 bar | Plug Form B, industry |
| 5812420300 | 3 ... 10 bar | Plug Form B, industry |
| 5812420400 | 3 ... 10 bar | Plug Form B, industry |
| 5812420000 | 3 ... 10 bar | Plug Form B, industry |
| 5812421500 | 3 ... 10 bar | Plug Form B, industry |
| 5812421200 | 3 ... 10 bar | Plug Form B, industry |
| 5812421100 | 3 ... 10 bar | Plug Form B, industry |
| 5812421600 | 3 ... 10 bar | Plug Form B, industry |
| 5812421300 | 3 ... 10 bar | Plug Form B, industry |
| 5812421400 | 3 ... 10 bar | Plug Form B, industry |
| 5812421000 | 3 ... 10 bar | Plug Form B, industry |
| 5812422500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812422200 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812422600 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5812422300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812422400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812422000 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423200 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812423000 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5812420500 | - | - |
| 5812420200 | - | - |
| 5812420100 | - | - |
| 5812420600 | - | - |
| 5812420300 | - | - |
| 5812420400 | - | - |
| 5812420000 | Basic valve without coil | - |
| 5812421500 | - | with throttle |
| 5812421200 | - | with throttle |
| 5812421100 | - | with throttle |
| 5812421600 | - | with throttle |
| 5812421300 | - | with throttle |
| 5812421400 | - | with throttle |
| 5812421000 | Basic valve without coil | with throttle |
| 5812422500 | - | - |
| 5812422200 | - | - |
| 5812422600 | - | - |
| 5812422300 | - | - |
| 5812422400 | - | - |
| 5812422000 | Basic valve without coil | - |
| 5812423500 | - | with throttle |
| 5812423200 | - | with throttle |
| 5812423100 | - | with throttle |
| 5812423600 | - | with throttle |
| 5812423300 | - | with throttle |
| 5812423400 | - | with throttle |
| 5812423000 | Basic valve without coil | with throttle |

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

Technical information

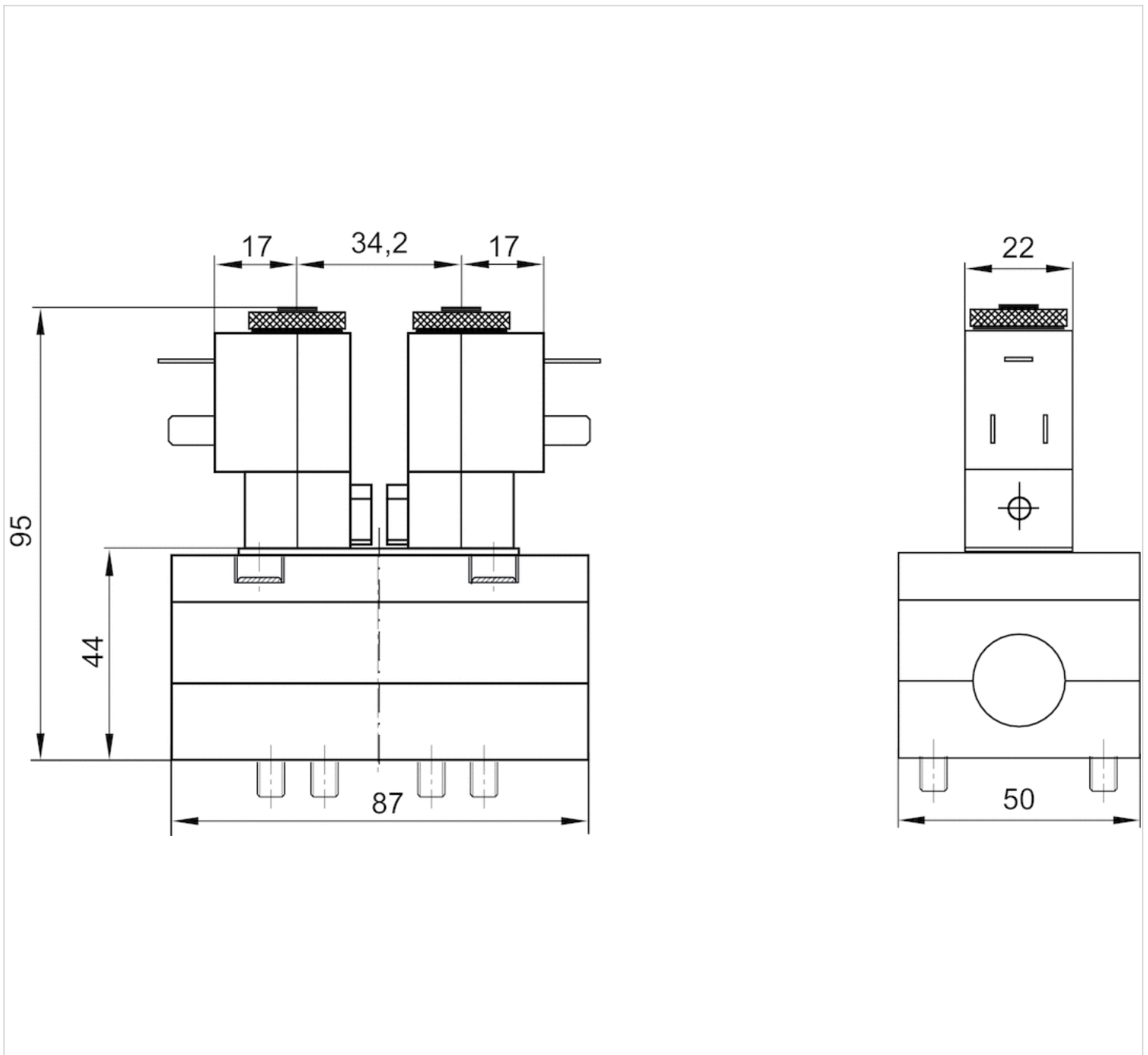
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



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

5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- exhausted center
- $Q_n = 2100$ 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | See table below |
| Typ. switch-off time | See table below |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|--|----|------------------|------------------------|
| 5812520500 | | | exhausted center | 12 V |
| 5812520200 | | | exhausted center | - |
| 5812520100 | | | exhausted center | 24 V |
| 5812520600 | | | exhausted center | 48 V |
| 5812520300 | | | exhausted center | - |
| 5812520400 | | | exhausted center | - |
| 5812520000 | | | exhausted center | - |
| 5812521500 | | | exhausted center | 12 V |
| 5812521200 | | | exhausted center | - |
| 5812521100 | | | exhausted center | 24 V |
| 5812521600 | | | exhausted center | 48 V |
| 5812521300 | | | exhausted center | - |
| 5812521400 | | | exhausted center | - |
| 5812521000 | | | exhausted center | - |
| 5812522500 | | | exhausted center | 12 V |
| 5812522200 | | | exhausted center | - |
| 5812522100 | | | exhausted center | 24 V |
| 5812522600 | | | exhausted center | 48 V |
| 5812522300 | | | exhausted center | - |
| 5812522400 | | | exhausted center | - |
| 5812522000 | | | exhausted center | - |
| 5812523500 | | | exhausted center | 12 V |
| 5812523200 | | | exhausted center | - |
| 5812523100 | | | exhausted center | 24 V |
| 5812523600 | | | exhausted center | 48 V |
| 5812523300 | | | exhausted center | - |
| 5812523400 | | | exhausted center | - |
| 5812523000 | | | exhausted center | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|------------------------------|------------------------------|----------------------|
| 5812520500 | - | - | -10% / +10% |
| 5812520200 | 24 V | - | - |
| 5812520100 | - | - | -10% / +10% |
| 5812520600 | - | - | -10% / +10% |
| 5812520300 | - | 110 V | - |
| 5812520400 | 230 V | - | - |
| 5812520000 | - | - | - |
| 5812521500 | - | - | -10% / +10% |
| 5812521200 | 24 V | - | - |
| 5812521100 | - | - | -10% / +10% |
| 5812521600 | - | - | -10% / +10% |
| 5812521300 | - | 110 V | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|---------------------------------|---------------------------------|-------------------------|
| 5812521400 | 230 V | - | - |
| 5812521000 | - | - | - |
| 5812522500 | - | - | -10% / +10% |
| 5812522200 | 24 V | - | - |
| 5812522100 | - | - | -10% / +10% |
| 5812522600 | - | - | -10% / +10% |
| 5812522300 | - | 110 V | - |
| 5812522400 | 230 V | - | - |
| 5812522000 | - | - | - |
| 5812523500 | - | - | -10% / +10% |
| 5812523200 | 24 V | - | - |
| 5812523100 | - | - | -10% / +10% |
| 5812523600 | - | - | -10% / +10% |
| 5812523300 | - | 110 V | - |
| 5812523400 | 230 V | - | - |
| 5812523000 | - | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|-------------------------------|-------------------------------|-------------------------|---------------------------|
| 5812520500 | - | - | 5 W | - |
| 5812520200 | -10% / +10% | - | - | 8 VA |
| 5812520100 | - | - | 5 W | - |
| 5812520600 | - | - | 5 W | - |
| 5812520300 | - | -10% / +10% | - | - |
| 5812520400 | -10% / +10% | - | - | 8 VA |
| 5812520000 | - | - | - | - |
| 5812521500 | - | - | 5 W | - |
| 5812521200 | -10% / +10% | - | - | 8 VA |
| 5812521100 | - | - | 5 W | - |
| 5812521600 | - | - | 5 W | - |
| 5812521300 | - | -10% / +10% | - | - |
| 5812521400 | -10% / +10% | - | - | 8 VA |
| 5812521000 | - | - | - | - |
| 5812522500 | - | - | 5 W | - |
| 5812522200 | -10% / +10% | - | - | 8 VA |
| 5812522100 | - | - | 5 W | - |
| 5812522600 | - | - | 5 W | - |
| 5812522300 | - | -10% / +10% | - | - |
| 5812522400 | -10% / +10% | - | - | 8 VA |
| 5812522000 | - | - | - | - |
| 5812523500 | - | - | 5 W | - |
| 5812523200 | -10% / +10% | - | - | 8 VA |
| 5812523100 | - | - | 5 W | - |
| 5812523600 | - | - | 5 W | - |
| 5812523300 | - | -10% / +10% | - | - |
| 5812523400 | -10% / +10% | - | - | 8 VA |
| 5812523000 | - | - | - | - |

| Part No. | Holding power AC 60 Hz | Switch-on power AC 50 Hz | Switch-on power AC 60 Hz | Pilot |
|------------|---------------------------|-----------------------------|-----------------------------|----------|
| 5812520500 | - | - | - | Internal |
| 5812520200 | - | 10 VA | - | Internal |
| 5812520100 | - | - | - | Internal |
| 5812520600 | - | - | - | Internal |
| 5812520300 | 8 VA | - | 10 VA | Internal |
| 5812520400 | - | 10 VA | - | Internal |
| 5812520000 | - | - | - | Internal |
| 5812521500 | - | - | - | Internal |
| 5812521200 | - | 10 VA | - | Internal |
| 5812521100 | - | - | - | Internal |
| 5812521600 | - | - | - | Internal |
| 5812521300 | 8 VA | - | 10 VA | Internal |
| 5812521400 | - | 10 VA | - | Internal |
| 5812521000 | - | - | - | Internal |
| 5812522500 | - | - | - | External |
| 5812522200 | - | 10 VA | - | External |
| 5812522100 | - | - | - | External |
| 5812522600 | - | - | - | External |
| 5812522300 | 8 VA | - | 10 VA | External |
| 5812522400 | - | 10 VA | - | External |
| 5812522000 | - | - | - | External |
| 5812523500 | - | - | - | External |
| 5812523200 | - | 10 VA | - | External |
| 5812523100 | - | - | - | External |
| 5812523600 | - | - | - | External |
| 5812523300 | 8 VA | - | 10 VA | External |
| 5812523400 | - | 10 VA | - | External |
| 5812523000 | - | - | - | External |

| Part No. | Working pressure min./max. | Typ. switch-on time | Typ. switch-off time |
|------------|----------------------------|---------------------|----------------------|
| 5812520500 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812520200 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812520100 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812520600 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812520300 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812520400 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812520000 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521500 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521200 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521100 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521600 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521300 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521400 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812521000 | 3 ... 10 bar | 19 ms | 42 ms |
| 5812522500 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812522200 | -0,95 ... 10 bar | 30 ms | 74 ms |

| Part No. | Working pressure min./max. | Typ. switch-on time | Typ. switch-off time |
|------------|----------------------------|---------------------|----------------------|
| 5812522100 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812522600 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812522300 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812522400 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812522000 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523500 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523200 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523100 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523600 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523300 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523400 | -0,95 ... 10 bar | 30 ms | 74 ms |
| 5812523000 | -0,95 ... 10 bar | 30 ms | 74 ms |

| Part No. | Electrical connection Pilot valve | basic valve with electrical connector | Throttle |
|------------|--------------------------------------|---------------------------------------|---------------|
| 5812520500 | Plug Form B, industry | - | - |
| 5812520200 | Plug Form B, industry | - | - |
| 5812520100 | Plug Form B, industry | - | - |
| 5812520600 | Plug Form B, industry | - | - |
| 5812520300 | Plug Form B, industry | - | - |
| 5812520400 | Plug Form B, industry | - | - |
| 5812520000 | Plug Form B, industry | Basic valve without coil | - |
| 5812521500 | Plug Form B, industry | - | with throttle |
| 5812521200 | Plug Form B, industry | - | with throttle |
| 5812521100 | Plug Form B, industry | - | with throttle |
| 5812521600 | Plug Form B, industry | - | with throttle |
| 5812521300 | Plug Form B, industry | - | with throttle |
| 5812521400 | Plug Form B, industry | - | with throttle |
| 5812521000 | Plug Form B, industry | Basic valve without coil | with throttle |
| 5812522500 | Plug Form B, industry | - | - |
| 5812522200 | Plug Form B, industry | - | - |
| 5812522100 | Plug Form B, industry | - | - |
| 5812522600 | Plug Form B, industry | - | - |
| 5812522300 | Plug Form B, industry | - | - |
| 5812522400 | Plug Form B, industry | - | - |
| 5812522000 | Plug Form B, industry | Basic valve without coil | - |
| 5812523500 | Plug Form B, industry | - | with throttle |
| 5812523200 | Plug Form B, industry | - | with throttle |
| 5812523100 | Plug Form B, industry | - | with throttle |
| 5812523600 | Plug Form B, industry | - | with throttle |
| 5812523300 | Plug Form B, industry | - | with throttle |
| 5812523400 | Plug Form B, industry | - | with throttle |
| 5812523000 | Plug Form B, industry | 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.

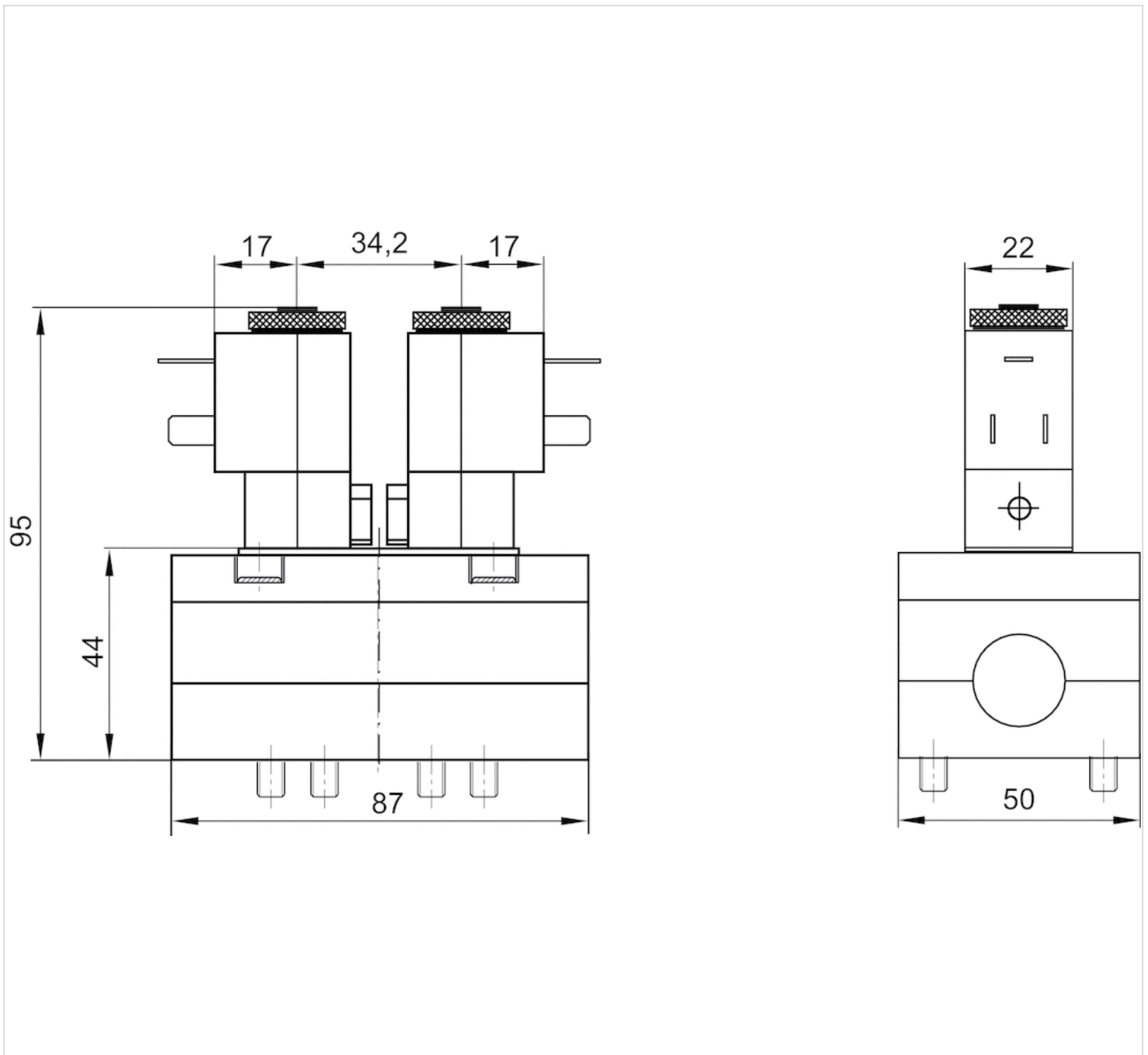
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



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











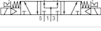





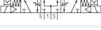

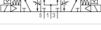

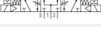

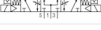

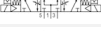





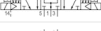











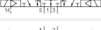

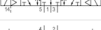

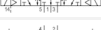

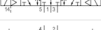

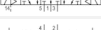



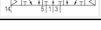

5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- pressurized center
- $Q_n = 2100$ 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 19 ms |
| Typ. switch-off time | 42 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5812720500 |  |  | pressurized center | 12 V |
| 5812720200 |  |  | pressurized center | - |
| 5812720100 |  |  | pressurized center | 24 V |
| 5812720600 |  |  | pressurized center | 48 V |
| 5812720300 |  |  | pressurized center | - |
| 5812720400 |  |  | pressurized center | - |
| 5812720000 |  |  | pressurized center | - |
| 5812721500 |  |  | pressurized center | 12 V |
| 5812721200 |  |  | pressurized center | - |
| 5812721100 |  |  | pressurized center | 24 V |
| 5812721600 |  |  | pressurized center | 48 V |
| 5812721300 |  |  | pressurized center | - |
| 5812721400 |  |  | pressurized center | - |
| 5812721000 |  |  | pressurized center | - |
| 5812722500 |  |  | pressurized center | 12 V |
| 5812722200 |  |  | pressurized center | - |
| 5812722100 |  |  | pressurized center | 24 V |
| 5812722600 |  |  | pressurized center | 48 V |
| 5812722300 |  |  | pressurized center | - |
| 5812722400 |  |  | pressurized center | - |
| 5812722000 |  |  | pressurized center | - |
| 5812723500 |  |  | pressurized center | 12 V |
| 5812723200 |  |  | pressurized center | - |
| 5812723100 |  |  | pressurized center | 24 V |
| 5812723600 |  |  | pressurized center | 48 V |
| 5812723300 |  |  | pressurized center | - |
| 5812723400 |  |  | pressurized center | - |
| 5812723000 |  |  | pressurized center | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|------------------------------|------------------------------|----------------------|
| 5812720500 | - | - | -10% / +10% |
| 5812720200 | 24 V | - | - |
| 5812720100 | - | - | -10% / +10% |
| 5812720600 | - | - | -10% / +10% |
| 5812720300 | - | 110 V | - |
| 5812720400 | 230 V | - | - |
| 5812720000 | - | - | - |
| 5812721500 | - | - | -10% / +10% |
| 5812721200 | 24 V | - | - |
| 5812721100 | - | - | -10% / +10% |
| 5812721600 | - | - | -10% / +10% |
| 5812721300 | - | 110 V | - |

| Part No. | Operational voltage AC 50 Hz | Operational voltage AC 60 Hz | Voltage tolerance DC |
|------------|---------------------------------|---------------------------------|-------------------------|
| 5812721400 | 230 V | - | - |
| 5812721000 | - | - | - |
| 5812722500 | - | - | -10% / +10% |
| 5812722200 | 24 V | - | - |
| 5812722100 | - | - | -10% / +10% |
| 5812722600 | - | - | -10% / +10% |
| 5812722300 | - | 110 V | - |
| 5812722400 | 230 V | - | - |
| 5812722000 | - | - | - |
| 5812723500 | - | - | -10% / +10% |
| 5812723200 | 24 V | - | - |
| 5812723100 | - | - | -10% / +10% |
| 5812723600 | - | - | -10% / +10% |
| 5812723300 | - | 110 V | - |
| 5812723400 | 230 V | - | - |
| 5812723000 | - | - | - |

| Part No. | Voltage tolerance AC 50 Hz | Voltage tolerance AC 60 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|-------------------------------|-------------------------------|-------------------------|---------------------------|
| 5812720500 | - | - | 5 W | - |
| 5812720200 | -10% / +10% | - | - | 8 VA |
| 5812720100 | - | - | 5 W | - |
| 5812720600 | - | - | 5 W | - |
| 5812720300 | - | -10% / +10% | - | - |
| 5812720400 | -10% / +10% | - | - | 8 VA |
| 5812720000 | - | - | - | - |
| 5812721500 | - | - | 5 W | - |
| 5812721200 | -10% / +10% | - | - | 8 VA |
| 5812721100 | - | - | 5 W | - |
| 5812721600 | - | - | 5 W | - |
| 5812721300 | - | -10% / +10% | - | - |
| 5812721400 | -10% / +10% | - | - | 8 VA |
| 5812721000 | - | - | - | - |
| 5812722500 | - | - | 5 W | - |
| 5812722200 | -10% / +10% | - | - | 8 VA |
| 5812722100 | - | - | 5 W | - |
| 5812722600 | - | - | 5 W | - |
| 5812722300 | - | -10% / +10% | - | - |
| 5812722400 | -10% / +10% | - | - | 8 VA |
| 5812722000 | - | - | - | - |
| 5812723500 | - | - | 5 W | - |
| 5812723200 | -10% / +10% | - | - | 8 VA |
| 5812723100 | - | - | 5 W | - |
| 5812723600 | - | - | 5 W | - |
| 5812723300 | - | -10% / +10% | - | - |
| 5812723400 | -10% / +10% | - | - | 8 VA |
| 5812723000 | - | - | - | - |

| Part No. | Holding power AC 60 Hz | Switch-on power AC 50 Hz | Switch-on power AC 60 Hz | Pilot |
|------------|---------------------------|-----------------------------|-----------------------------|----------|
| 5812720500 | - | - | - | Internal |
| 5812720200 | - | 10 VA | - | Internal |
| 5812720100 | - | - | - | Internal |
| 5812720600 | - | - | - | Internal |
| 5812720300 | 8 VA | - | 10 VA | Internal |
| 5812720400 | - | 10 VA | - | Internal |
| 5812720000 | - | - | - | Internal |
| 5812721500 | - | - | - | Internal |
| 5812721200 | - | 10 VA | - | Internal |
| 5812721100 | - | - | - | Internal |
| 5812721600 | - | - | - | Internal |
| 5812721300 | 8 VA | - | 10 VA | Internal |
| 5812721400 | - | 10 VA | - | Internal |
| 5812721000 | - | - | - | Internal |
| 5812722500 | - | - | - | External |
| 5812722200 | - | 10 VA | - | External |
| 5812722100 | - | - | - | External |
| 5812722600 | - | - | - | External |
| 5812722300 | 8 VA | - | 10 VA | External |
| 5812722400 | - | 10 VA | - | External |
| 5812722000 | - | - | - | External |
| 5812723500 | - | - | - | External |
| 5812723200 | - | 10 VA | - | External |
| 5812723100 | - | - | - | External |
| 5812723600 | - | - | - | External |
| 5812723300 | 8 VA | - | 10 VA | External |
| 5812723400 | - | 10 VA | - | External |
| 5812723000 | - | - | - | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5812720500 | 3 ... 10 bar | Plug Form B, industry |
| 5812720200 | 3 ... 10 bar | Plug Form B, industry |
| 5812720100 | 3 ... 10 bar | Plug Form B, industry |
| 5812720600 | 3 ... 10 bar | Plug Form B, industry |
| 5812720300 | 3 ... 10 bar | Plug Form B, industry |
| 5812720400 | 3 ... 10 bar | Plug Form B, industry |
| 5812720000 | 3 ... 10 bar | Plug Form B, industry |
| 5812721500 | 3 ... 10 bar | Plug Form B, industry |
| 5812721200 | 3 ... 10 bar | Plug Form B, industry |
| 5812721100 | 3 ... 10 bar | Plug Form B, industry |
| 5812721600 | 3 ... 10 bar | Plug Form B, industry |
| 5812721300 | 3 ... 10 bar | Plug Form B, industry |
| 5812721400 | 3 ... 10 bar | Plug Form B, industry |
| 5812721000 | 3 ... 10 bar | Plug Form B, industry |
| 5812722500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812722200 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve |
|------------|----------------------------|--------------------------------------|
| 5812722100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812722600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812722300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812722400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812722000 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723500 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723200 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723100 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723600 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723300 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723400 | -0,95 ... 10 bar | Plug Form B, industry |
| 5812723000 | -0,95 ... 10 bar | Plug Form B, industry |

| Part No. | basic valve with electrical connector | Throttle |
|------------|---------------------------------------|---------------|
| 5812720500 | - | - |
| 5812720200 | - | - |
| 5812720100 | - | - |
| 5812720600 | - | - |
| 5812720300 | - | - |
| 5812720400 | - | - |
| 5812720000 | Basic valve without coil | - |
| 5812721500 | - | with throttle |
| 5812721200 | - | with throttle |
| 5812721100 | - | with throttle |
| 5812721600 | - | with throttle |
| 5812721300 | - | with throttle |
| 5812721400 | - | with throttle |
| 5812721000 | Basic valve without coil | with throttle |
| 5812722500 | - | - |
| 5812722200 | - | - |
| 5812722100 | - | - |
| 5812722600 | - | - |
| 5812722300 | - | - |
| 5812722400 | - | - |
| 5812722000 | Basic valve without coil | - |
| 5812723500 | - | with throttle |
| 5812723200 | - | with throttle |
| 5812723100 | - | with throttle |
| 5812723600 | - | with throttle |
| 5812723300 | - | with throttle |
| 5812723400 | - | with throttle |
| 5812723000 | 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.

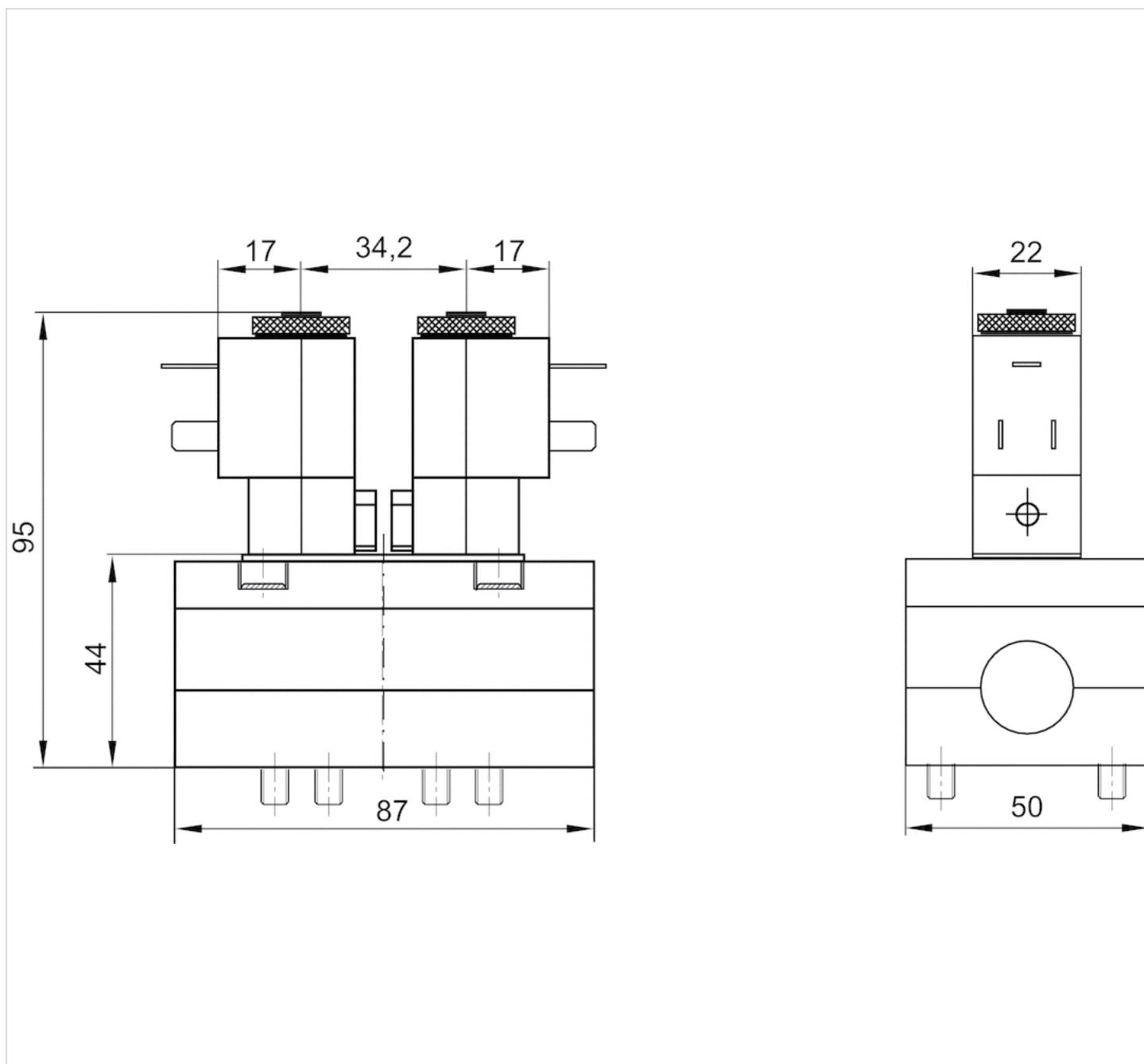
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



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

















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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,56 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5812170540 |  |  | 24 V | 42 V |
| 5812170440 |  |  | - | 230 V |
| 5812171540 |  |  | 24 V | 42 V |
| 5812171440 |  |  | - | 230 V |
| 5812172540 |  |  | 24 V | 42 V |
| 5812172440 |  |  | - | 230 V |
| 5812173540 |  |  | 24 V | 42 V |
| 5812173440 |  |  | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812170540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812170440 | - | -10% / +10% | - | 10,8 VA |
| 5812171540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812171440 | - | -10% / +10% | - | 10,8 VA |
| 5812172540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812172440 | - | -10% / +10% | - | 10,8 VA |
| 5812173540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812173440 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5812170540 | 12 VA | Internal | 3 ... 16 bar |
| 5812170440 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812171540 | 12 VA | Internal | 3 ... 16 bar |
| 5812171440 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812172540 | 12 VA | External | -0,95 ... 16 bar |
| 5812172440 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812173540 | 12 VA | External | -0,95 ... 16 bar |
| 5812173440 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812170540 | Plug EN 175301-803, form A | - |
| 5812170440 | Plug EN 175301-803, form A | - |
| 5812171540 | Plug EN 175301-803, form A | with throttle |
| 5812171440 | Plug EN 175301-803, form A | with throttle |
| 5812172540 | Plug EN 175301-803, form A | - |
| 5812172440 | Plug EN 175301-803, form A | - |
| 5812173540 | Plug EN 175301-803, form A | with throttle |
| 5812173440 | 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.

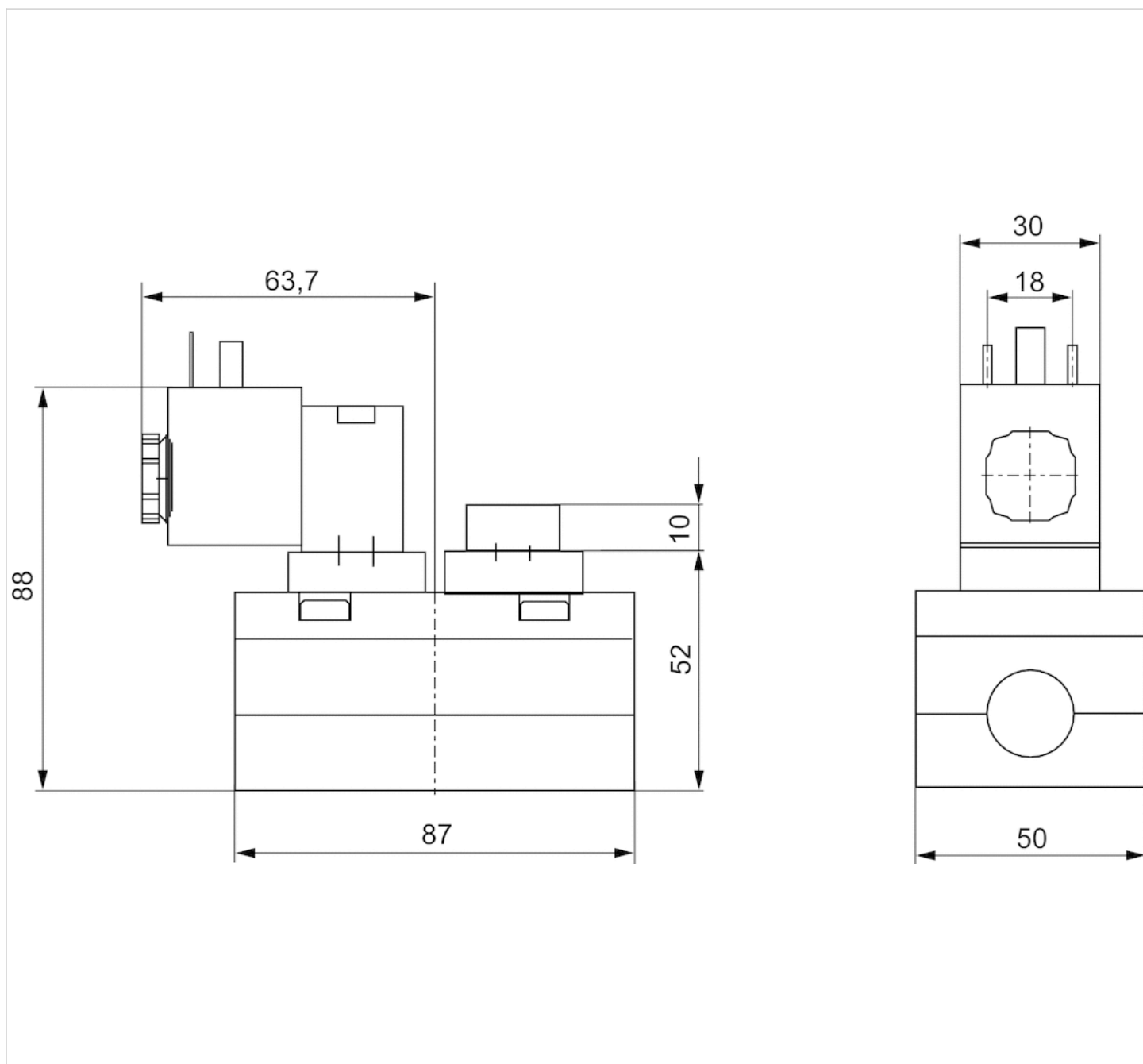
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



















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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700$ 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 14 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,71 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5812290540 |  |  | 24 V | 42 V |
| 5812290440 |  |  | - | 230 V |
| 5812291540 |  |  | 24 V | 42 V |
| 5812291440 |  |  | - | 230 V |
| 5812292540 |  |  | 24 V | 42 V |
| 5812292440 |  |  | - | 230 V |
| 5812293540 |  |  | 24 V | 42 V |
| 5812293440 |  |  | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812290540 | -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 |
|------------|-------------------------|-------------------------------|-------------------------|---------------------------|
| 5812290440 | - | -10% / +10% | - | 10,8 VA |
| 5812291540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812291440 | - | -10% / +10% | - | 10,8 VA |
| 5812292540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812292440 | - | -10% / +10% | - | 10,8 VA |
| 5812293540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812293440 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|-----------------------------|----------|----------------------------|
| 5812290540 | 12 VA | Internal | 1,5 ... 16 bar |
| 5812290440 | 15,2 VA | Internal | 1,5 ... 16 bar |
| 5812291540 | 12 VA | Internal | 1,5 ... 16 bar |
| 5812291440 | 15,2 VA | Internal | 1,5 ... 16 bar |
| 5812292540 | 12 VA | External | -0,95 ... 16 bar |
| 5812292440 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812293540 | 12 VA | External | -0,95 ... 16 bar |
| 5812293440 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812290540 | Plug EN 175301-803, form A | - |
| 5812290440 | Plug EN 175301-803, form A | - |
| 5812291540 | Plug EN 175301-803, form A | with throttle |
| 5812291440 | Plug EN 175301-803, form A | with throttle |
| 5812292540 | Plug EN 175301-803, form A | - |
| 5812292440 | Plug EN 175301-803, form A | - |
| 5812293540 | Plug EN 175301-803, form A | with throttle |
| 5812293440 | 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.

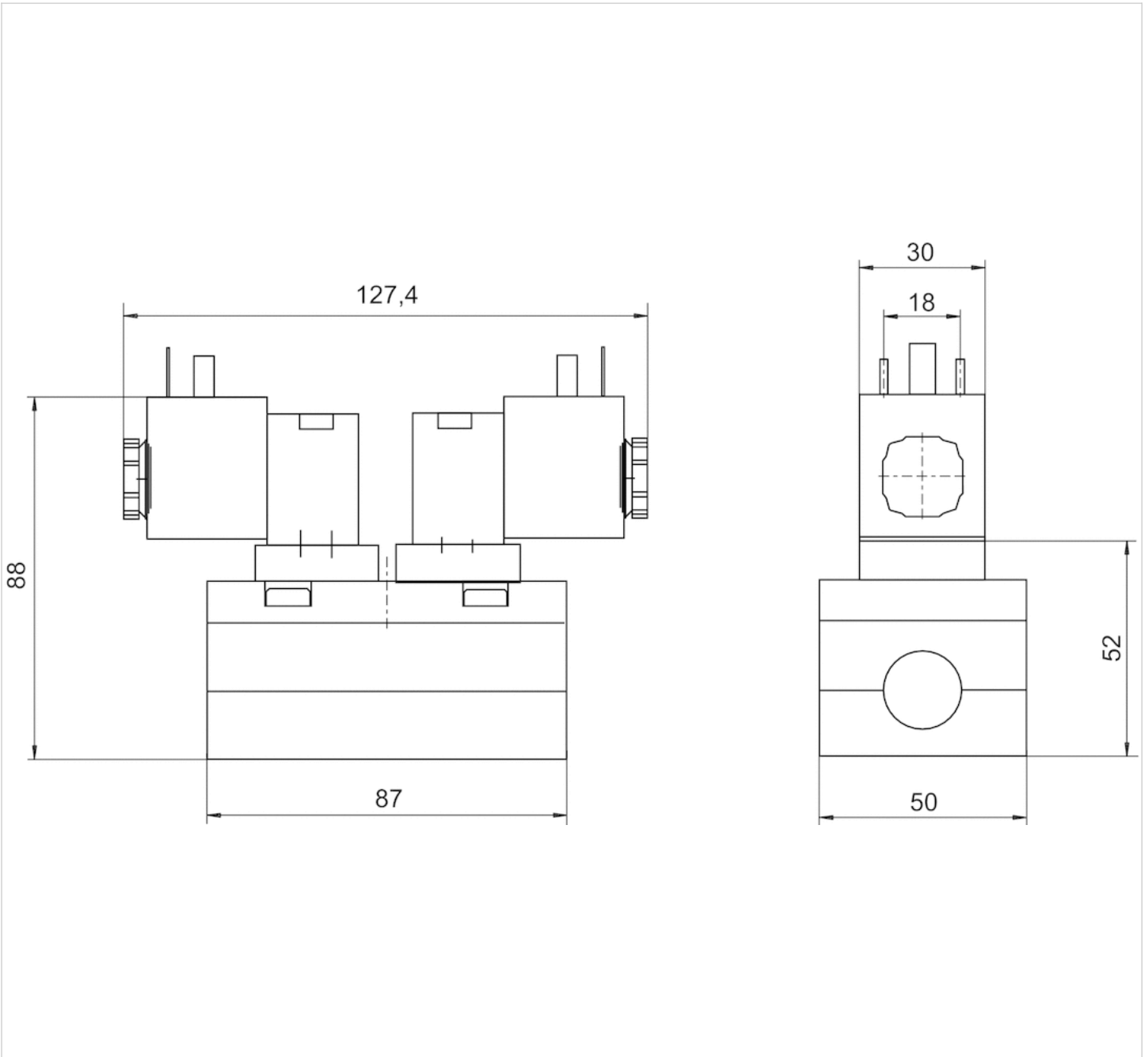
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

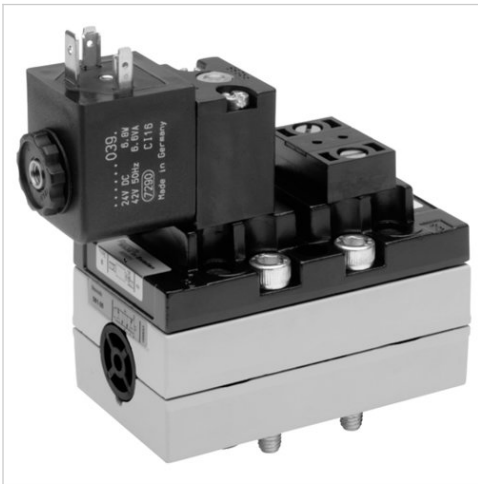
Dimensions

Dimensions



















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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700$ 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,56 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|---|------------------------|------------------------------|
| 5812670540 |  |  | 24 V | 42 V |
| 5812670440 |  |  | - | 230 V |
| 5812671540 |  |  | 24 V | 42 V |
| 5812671440 |  |  | - | 230 V |
| 5812672540 |  |  | 24 V | 42 V |
| 5812672440 |  |  | - | 230 V |
| 5812673540 |  |  | 24 V | 42 V |
| 5812673440 |  |  | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812670540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812670440 | - | -10% / +10% | - | 10,8 VA |
| 5812671540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812671440 | - | -10% / +10% | - | 10,8 VA |
| 5812672540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812672440 | - | -10% / +10% | - | 10,8 VA |
| 5812673540 | -10% / +10% | -10% / +10% | 6,7 W | 7,7 VA |
| 5812673440 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5812670540 | 12 VA | Internal | 2,7 ... 16 bar |
| 5812670440 | 15,2 VA | Internal | 2,7 ... 16 bar |
| 5812671540 | 12 VA | Internal | 2,7 ... 16 bar |
| 5812671440 | 15,2 VA | Internal | 2,7 ... 16 bar |
| 5812672540 | 12 VA | External | -0,95 ... 16 bar |
| 5812672440 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812673540 | 12 VA | External | -0,95 ... 16 bar |
| 5812673440 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812670540 | Plug EN 175301-803, form A | - |
| 5812670440 | Plug EN 175301-803, form A | - |
| 5812671540 | Plug EN 175301-803, form A | with throttle |
| 5812671440 | Plug EN 175301-803, form A | with throttle |
| 5812672540 | Plug EN 175301-803, form A | - |
| 5812672440 | Plug EN 175301-803, form A | - |
| 5812673540 | Plug EN 175301-803, form A | with throttle |
| 5812673440 | 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.

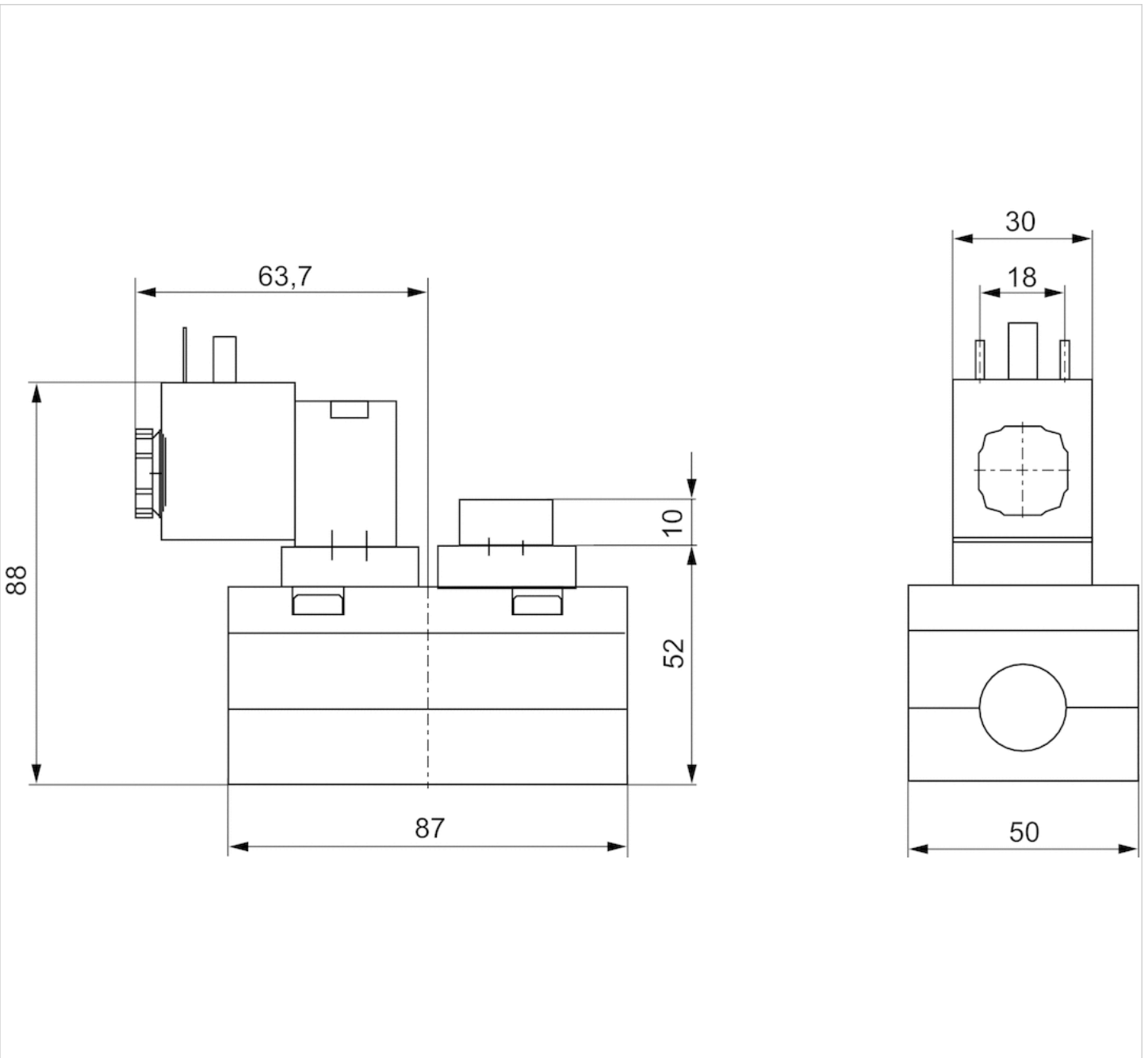
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

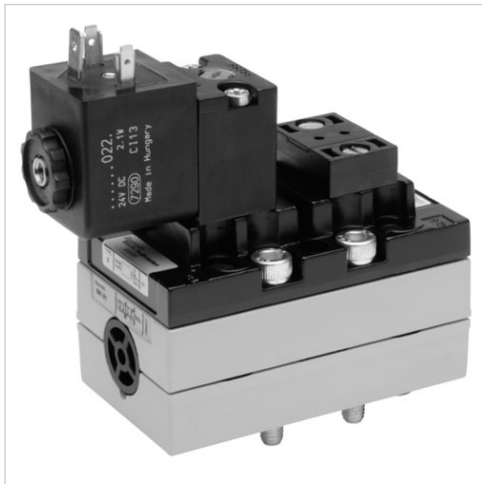
Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,56 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|--------------------------|------------------------|------------------------------|
| 5812170650 |  | TT-R-TT-R-TT-R-TT-R-TT-R | 24 V | - |
| 5812170450 |  | | - | 230 V |
| 5812171650 |  | | 24 V | - |
| 5812171450 |  | | - | 230 V |
| 5812172650 |  | | 24 V | - |
| 5812172450 |  | | - | 230 V |
| 5812173650 |  | | 24 V | - |
| 5812173450 |  | | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812170650 | -10% / +10% | - | 2 W | - |
| 5812170450 | - | -10% / +10% | - | 4,8 VA |
| 5812171650 | -10% / +10% | - | 2 W | - |
| 5812171450 | - | -10% / +10% | - | 4,8 VA |
| 5812172650 | -10% / +10% | - | 2 W | - |
| 5812172450 | - | -10% / +10% | - | 4,8 VA |
| 5812173650 | -10% / +10% | - | 2 W | - |
| 5812173450 | - | -10% / +10% | - | 4,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. | Compatibility index |
|------------|--------------------------|----------|----------------------------|---------------------|
| 5812170650 | - | Internal | 3 ... 10 bar | 14 |
| 5812170450 | 7 VA | Internal | 3 ... 10 bar | 14 |
| 5812171650 | - | Internal | 3 ... 10 bar | 14 |
| 5812171450 | 7 VA | Internal | 3 ... 10 bar | 14 |
| 5812172650 | - | External | -0,95 ... 10 bar | 14 |
| 5812172450 | 7 VA | External | -0,95 ... 10 bar | 14 |
| 5812173650 | - | External | -0,95 ... 10 bar | 14 |
| 5812173450 | 7 VA | External | -0,95 ... 10 bar | 14 |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812170650 | Plug EN 175301-803, form A | - |
| 5812170450 | Plug EN 175301-803, form A | - |
| 5812171650 | Plug EN 175301-803, form A | with throttle |
| 5812171450 | Plug EN 175301-803, form A | with throttle |
| 5812172650 | Plug EN 175301-803, form A | - |
| 5812172450 | Plug EN 175301-803, form A | - |
| 5812173650 | Plug EN 175301-803, form A | with throttle |
| 5812173450 | 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.

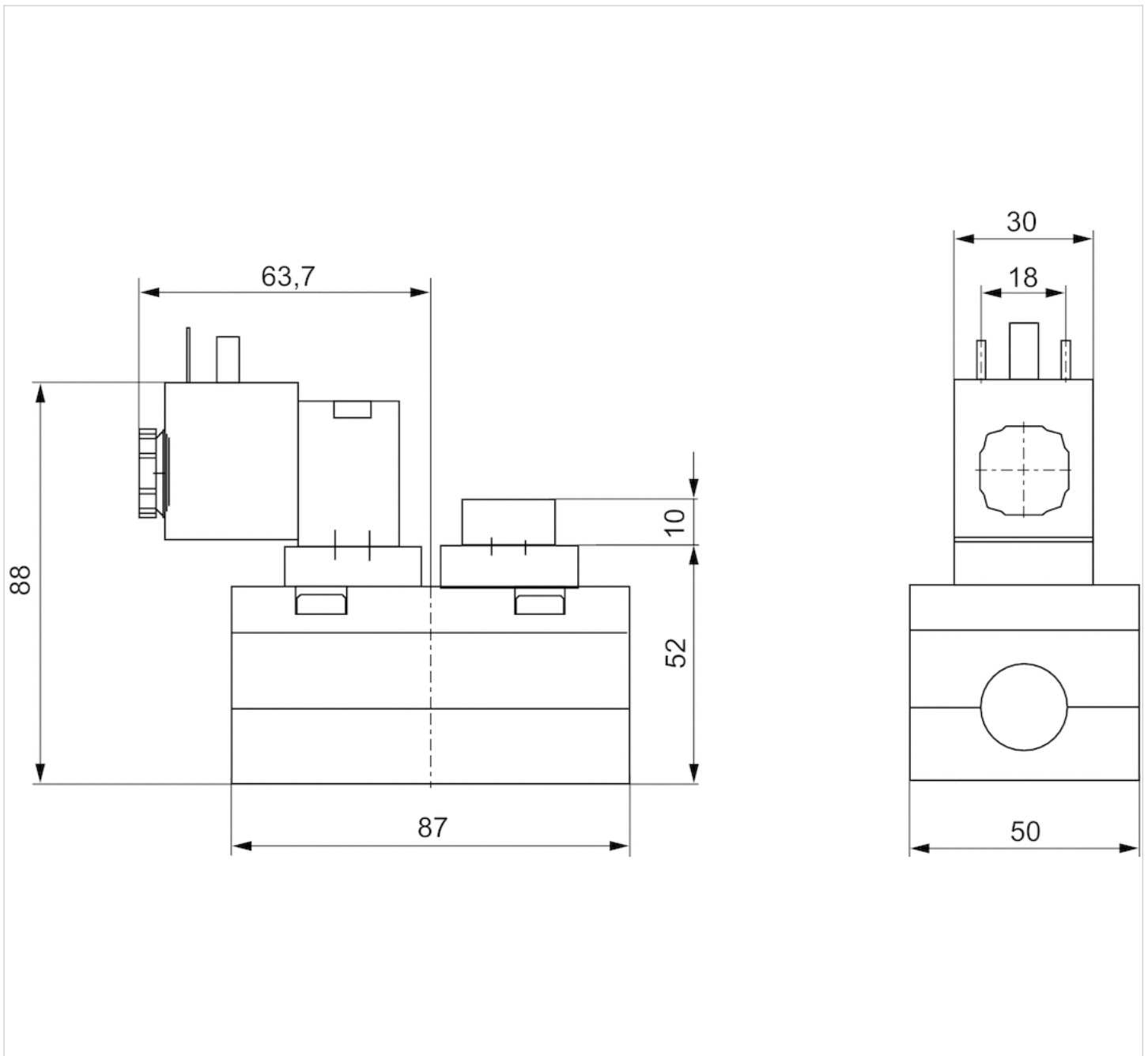
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700$ 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 14 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,71 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|----------|------------------------|------------------------------|
| 5812290650 |  | TT-R-T-R | 24 V | - |
| 5812290450 |  | | - | 230 V |
| 5812291650 |  | TT-R-T-R | 24 V | - |
| 5812291450 |  | | - | 230 V |
| 5812292650 |  | TT-R-T-R | 24 V | - |
| 5812292450 |  | | - | 230 V |
| 5812293650 |  | TT-R-T-R | 24 V | - |
| 5812293450 |  | | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812290650 | -10% / +10% | - | 2 W | - |
| 5812290450 | - | -10% / +10% | - | 4,8 VA |
| 5812291650 | -10% / +10% | - | 2 W | - |
| 5812291450 | - | -10% / +10% | - | 4,8 VA |
| 5812292650 | -10% / +10% | - | 2 W | - |
| 5812292450 | - | -10% / +10% | - | 4,8 VA |
| 5812293650 | -10% / +10% | - | 2 W | - |
| 5812293450 | - | -10% / +10% | - | 4,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. | Compatibility index |
|------------|--------------------------|----------|----------------------------|---------------------|
| 5812290650 | - | Internal | 1,5 ... 10 bar | 14 |
| 5812290450 | 7 VA | Internal | 1,5 ... 10 bar | 14 |
| 5812291650 | - | Internal | 1,5 ... 10 bar | 14 |
| 5812291450 | 7 VA | Internal | 1,5 ... 10 bar | 14 |
| 5812292650 | - | External | -0,95 ... 10 bar | 14 |
| 5812292450 | 7 VA | External | -0,95 ... 10 bar | 14 |
| 5812293650 | - | External | -0,95 ... 10 bar | 14 |
| 5812293450 | 7 VA | External | -0,95 ... 10 bar | 14 |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812290650 | Plug EN 175301-803, form A | - |
| 5812290450 | Plug EN 175301-803, form A | - |
| 5812291650 | Plug EN 175301-803, form A | with throttle |
| 5812291450 | Plug EN 175301-803, form A | with throttle |
| 5812292650 | Plug EN 175301-803, form A | - |
| 5812292450 | Plug EN 175301-803, form A | - |
| 5812293650 | Plug EN 175301-803, form A | with throttle |
| 5812293450 | 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.

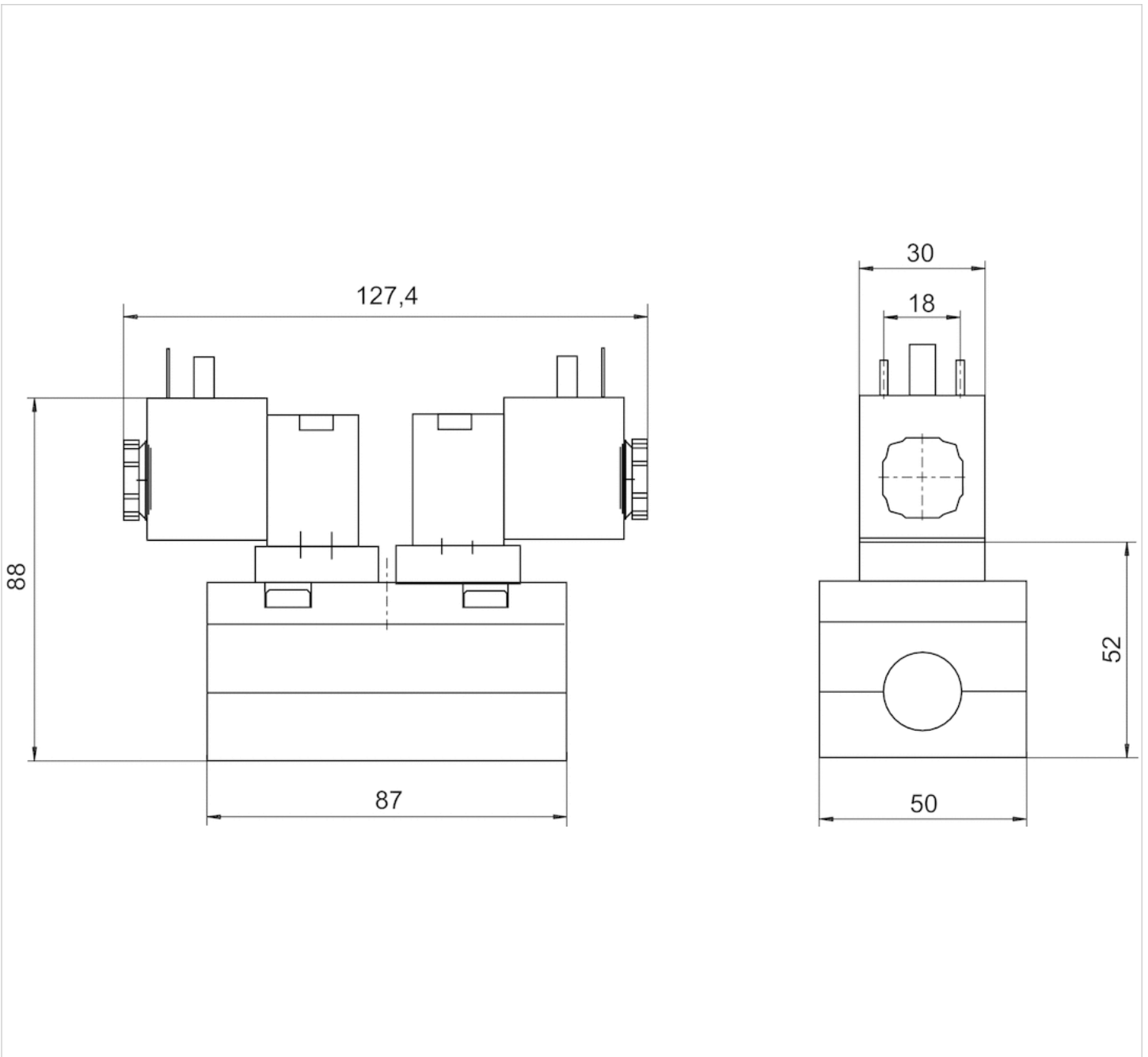
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

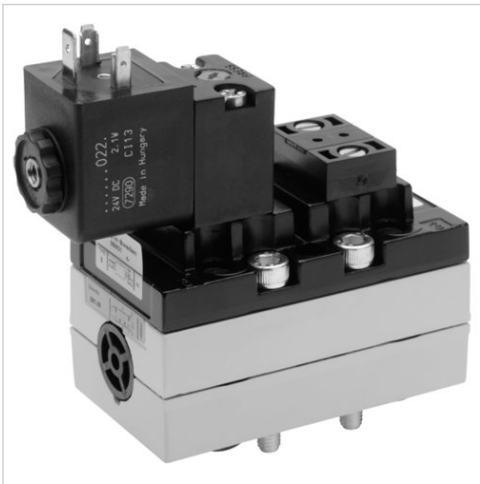
Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700$ 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,56 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|------------------------------------|------------------------|------------------------------|
| 5812670650 |  | TT-R-TT-R-TT-R-TT-R-TT-R-TT-R-TT-R | 24 V | - |
| 5812670450 |  | | - | 230 V |
| 5812671650 |  | | 24 V | - |
| 5812671450 |  | | - | 230 V |
| 5812672650 |  | | 24 V | - |
| 5812672450 |  | | - | 230 V |
| 5812673650 |  | | 24 V | - |
| 5812673450 |  | | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812670650 | -10% / +10% | - | 2 W | - |
| 5812670450 | - | -10% / +10% | - | 4,8 VA |
| 5812671650 | -10% / +10% | - | 2 W | - |
| 5812671450 | - | -10% / +10% | - | 4,8 VA |
| 5812672650 | -10% / +10% | - | 2 W | - |
| 5812672450 | - | -10% / +10% | - | 4,8 VA |
| 5812673650 | -10% / +10% | - | 2 W | - |
| 5812673450 | - | -10% / +10% | - | 4,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. | Compatibility index |
|------------|--------------------------|----------|----------------------------|---------------------|
| 5812670650 | - | Internal | 2,7 ... 10 bar | 14 |
| 5812670450 | 7 VA | Internal | 2,7 ... 10 bar | 14 |
| 5812671650 | - | Internal | 2,7 ... 10 bar | 14 |
| 5812671450 | 7 VA | Internal | 2,7 ... 10 bar | 14 |
| 5812672650 | - | External | -0,95 ... 10 bar | 14 |
| 5812672450 | 7 VA | External | -0,95 ... 10 bar | 14 |
| 5812673650 | - | External | -0,95 ... 10 bar | 14 |
| 5812673450 | 7 VA | External | -0,95 ... 10 bar | 14 |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812670650 | Plug EN 175301-803, form A | - |
| 5812670450 | Plug EN 175301-803, form A | - |
| 5812671650 | Plug EN 175301-803, form A | with throttle |
| 5812671450 | Plug EN 175301-803, form A | with throttle |
| 5812672650 | Plug EN 175301-803, form A | - |
| 5812672450 | Plug EN 175301-803, form A | - |
| 5812673650 | Plug EN 175301-803, form A | with throttle |
| 5812673450 | 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 Q_n at 6 bar and $\Delta p = 1$ bar, 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.

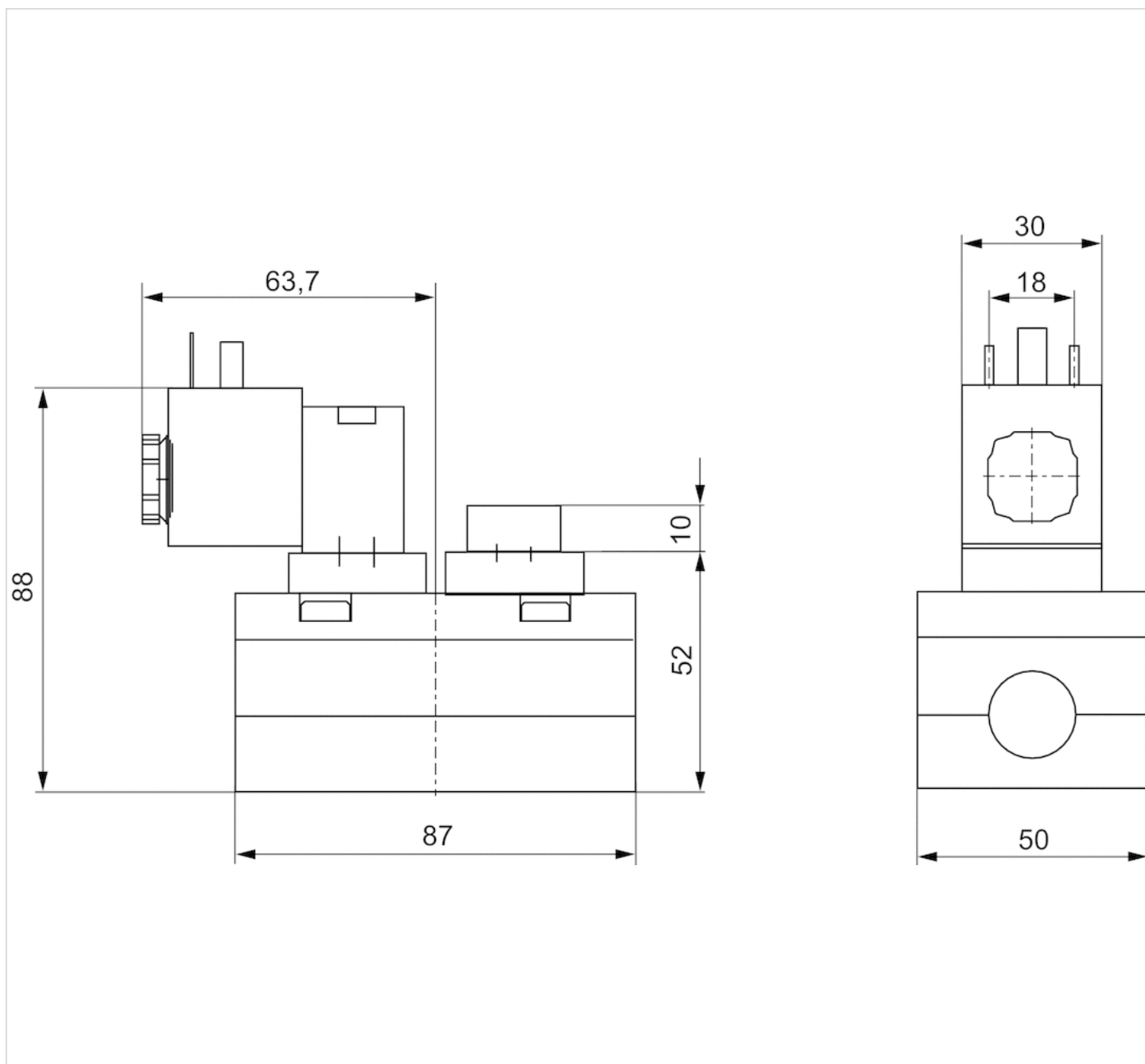
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700$ 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 14 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,71 kg |

Technical data

| Part No. | | Operational voltage DC | Operational voltage AC 50 Hz | Voltage tolerance DC |
|------------|---|------------------------|------------------------------|----------------------|
| 5812290530 |  | 24 V | - | -10% / +10% |
| 5812290430 |  | - | 230 V | - |
| 5812291530 |  | 24 V | - | -10% / +10% |
| 5812291430 |  | - | 230 V | - |
| 5812292530 |  | 24 V | - | -10% / +10% |
| 5812292430 |  | - | 230 V | - |
| 5812293530 |  | 24 V | - | -10% / +10% |
| 5812293430 |  | - | 230 V | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|----------------------------|----------------------|------------------------|--------------------------|
| 5812290530 | -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 |
|------------|-------------------------------|-------------------------|---------------------------|-----------------------------|
| 5812290430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812291530 | -10% / +10% | 6,7 W | - | - |
| 5812291430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812292530 | -10% / +10% | 6,7 W | - | - |
| 5812292430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812293530 | -10% / +10% | 6,7 W | - | - |
| 5812293430 | -10% / +10% | - | 10,8 VA | 15,2 VA |

| Part No. | Pilot | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------|----------------------------|--------------------------------------|---------------|
| 5812290530 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812290430 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812291530 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812291430 | Internal | 1,5 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812292530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812292430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812293530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812293430 | 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.

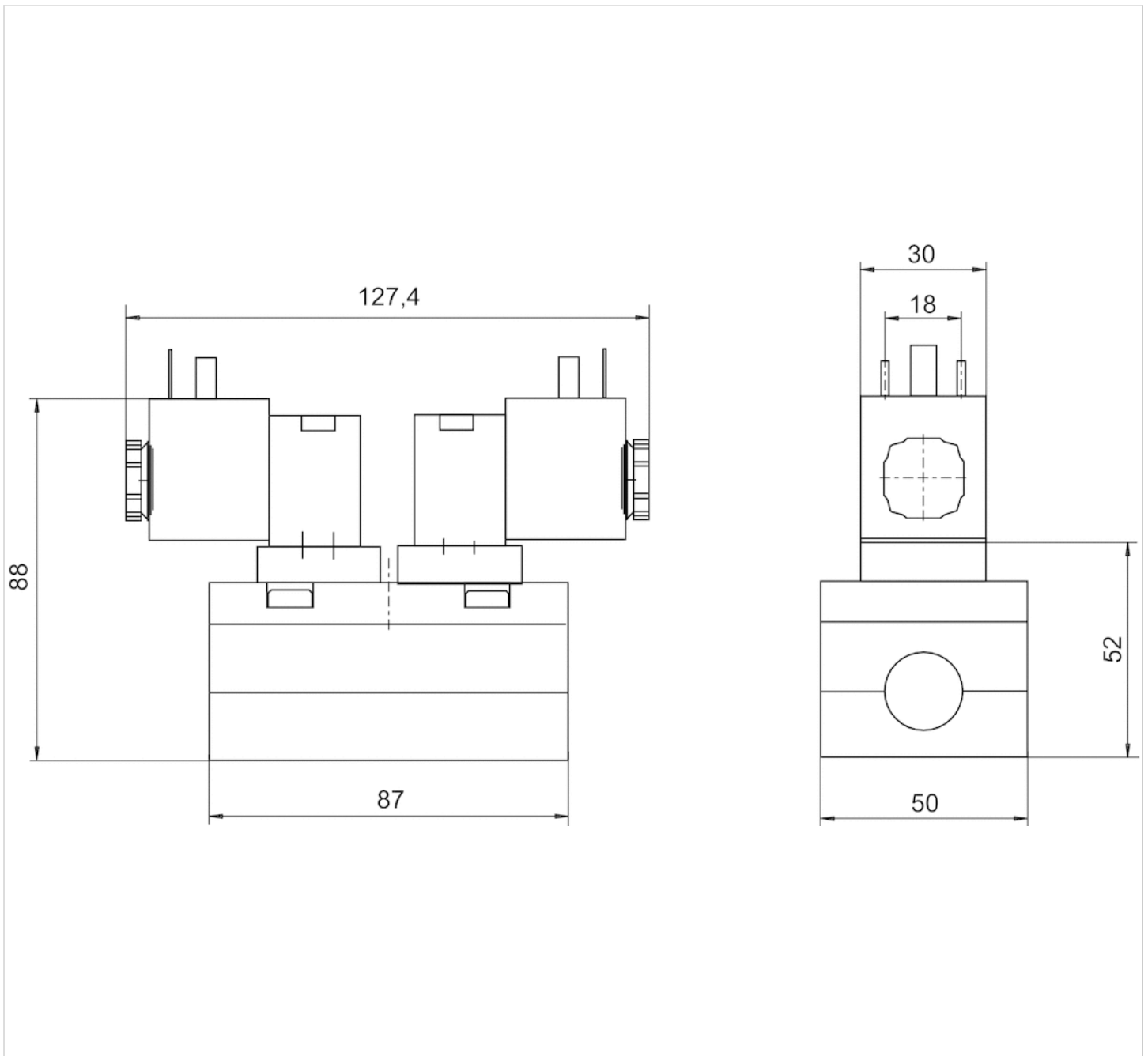
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700$ 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,56 kg |

Technical data

| Part No. | | Operational voltage DC | Operational voltage AC 50 Hz | Voltage tolerance DC |
|------------|---|------------------------|------------------------------|----------------------|
| 5812670530 |  | 24 V | - | -10% / +10% |
| 5812670430 |  | - | 230 V | - |
| 5812671530 |  | 24 V | - | -10% / +10% |
| 5812671430 |  | - | 230 V | - |
| 5812672530 |  | 24 V | - | -10% / +10% |
| 5812672430 |  | - | 230 V | - |
| 5812673530 |  | 24 V | - | -10% / +10% |
| 5812673430 |  | - | 230 V | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------------|-------------------------|---------------------------|-----------------------------|
| 5812670530 | -10% / +10% | 6,7 W | - | - |
| 5812670430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812671530 | -10% / +10% | 6,7 W | - | - |
| 5812671430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812672530 | -10% / +10% | 6,7 W | - | - |
| 5812672430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812673530 | -10% / +10% | 6,7 W | - | - |
| 5812673430 | -10% / +10% | - | 10,8 VA | 15,2 VA |

| Part No. | Pilot | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------|----------------------------|--------------------------------------|---------------|
| 5812670530 | Internal | 2,7 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812670430 | Internal | 2,7 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812671530 | Internal | 2,7 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812671430 | Internal | 2,7 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812672530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812672430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812673530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812673430 | 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 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.

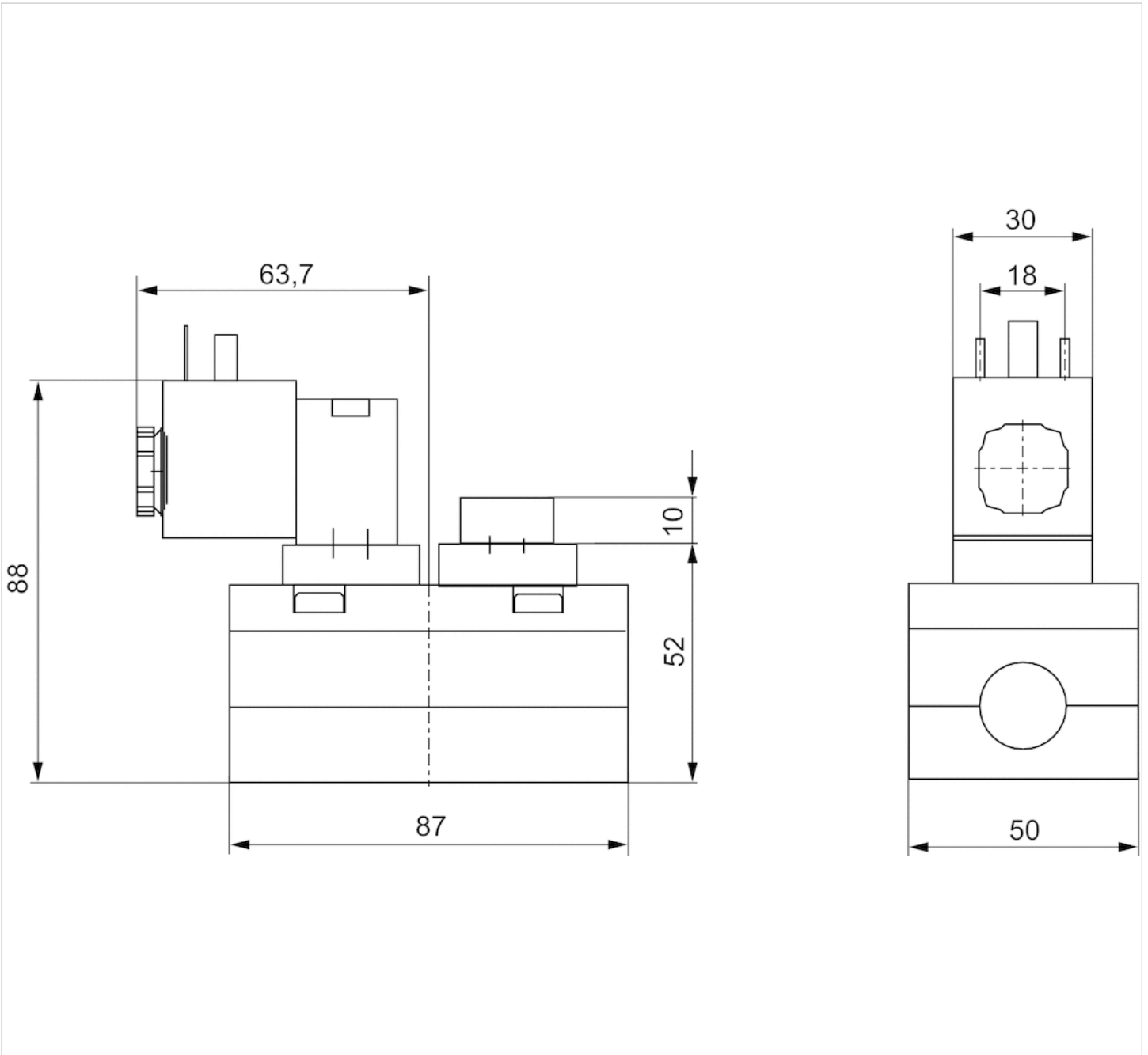
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,56 kg |

Technical data

| Part No. | | Operational voltage DC | Operational voltage AC 50 Hz | Voltage tolerance DC |
|------------|---|------------------------|------------------------------|----------------------|
| 5812170530 |  | 24 V | - | -10% / +10% |
| 5812170430 |  | - | 230 V | - |
| 5812171530 |  | 24 V | - | -10% / +10% |
| 5812171430 |  | - | 230 V | - |
| 5812172530 |  | 24 V | - | -10% / +10% |
| 5812172430 |  | - | 230 V | - |
| 5812173530 |  | 24 V | - | -10% / +10% |
| 5812173430 |  | - | 230 V | - |

| Part No. | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz |
|------------|-------------------------------|-------------------------|---------------------------|-----------------------------|
| 5812170530 | -10% / +10% | 6,7 W | - | - |
| 5812170430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812171530 | -10% / +10% | 6,7 W | - | - |
| 5812171430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812172530 | -10% / +10% | 6,7 W | - | - |
| 5812172430 | -10% / +10% | - | 10,8 VA | 15,2 VA |
| 5812173530 | -10% / +10% | 6,7 W | - | - |
| 5812173430 | -10% / +10% | - | 10,8 VA | 15,2 VA |

| Part No. | Pilot | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------|----------------------------|--------------------------------------|---------------|
| 5812170530 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812170430 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812171530 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812171430 | Internal | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812172530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812172430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812173530 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812173430 | External | -0,95 ... 16 bar | Plug EN 175301-803, form A | 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.

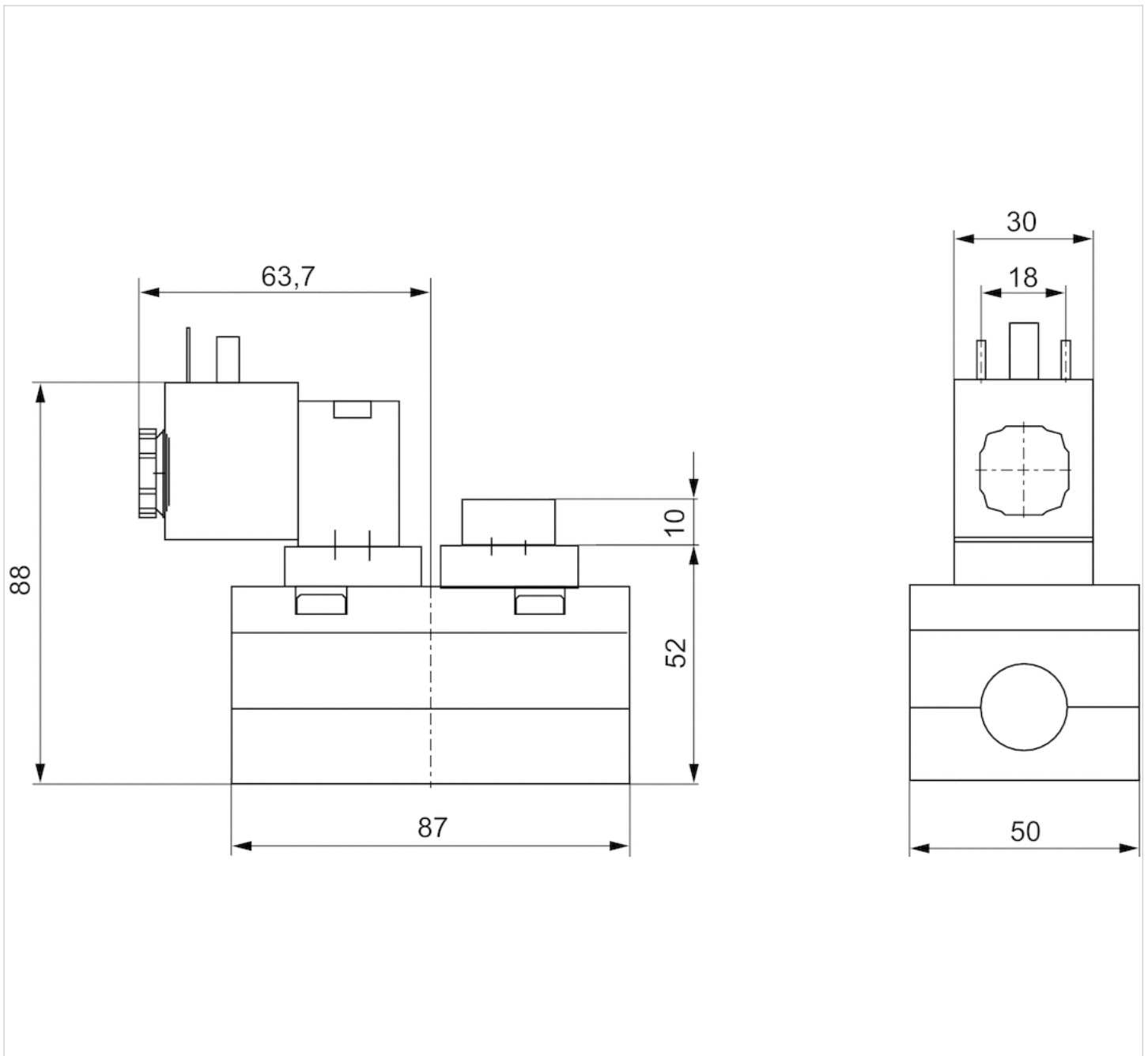
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700$ 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,6 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812170190 |  |  | 24 V | -10% / +10% |
| 5812171190 |  |  | 24 V | -10% / +10% |
| 5812172190 |  |  | 24 V | -10% / +10% |
| 5812173190 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5812170190 | 6 W | Internal | 3 ... 10 bar |
| 5812171190 | 6 W | Internal | 3 ... 10 bar |
| 5812172190 | 6 W | External | -0,95 ... 10 bar |
| 5812173190 | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812170190 | Plug EN 175301-803, form A | - |
| 5812171190 | Plug EN 175301-803, form A | with throttle |
| 5812172190 | Plug EN 175301-803, form A | - |
| 5812173190 | 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.

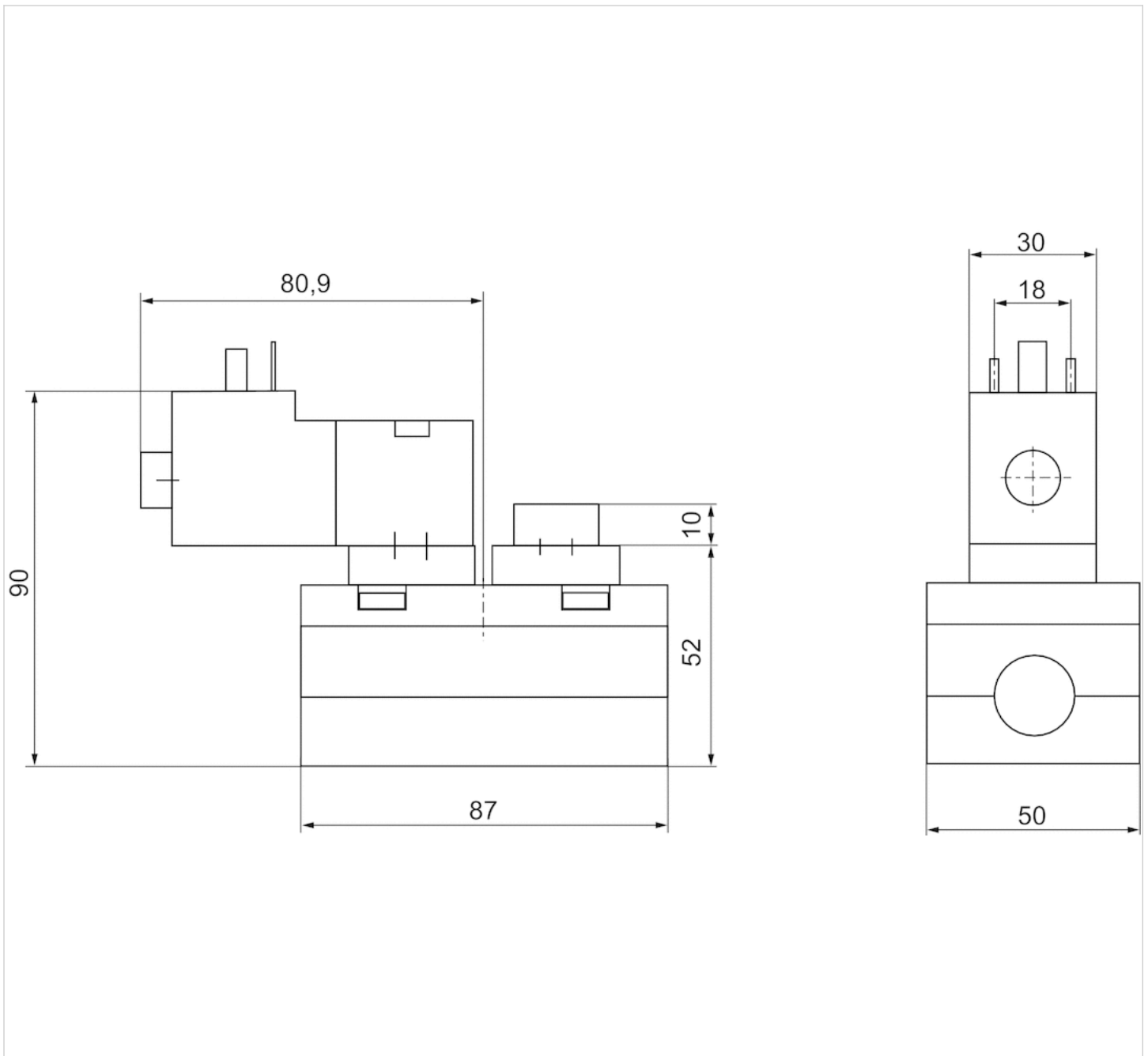
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- $Q_n = 2700$ 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 2 |
| Working pressure min./max. | See table below |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 40 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,6 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812670190 |  |  | 24 V | -10% / +10% |
| 5812671190 |  |  | 24 V | -10% / +10% |
| 5812672190 |  |  | 24 V | -10% / +10% |
| 5812673190 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5812670190 | 6 W | Internal | 2,7 ... 10 bar |
| 5812671190 | 6 W | Internal | 2,7 ... 10 bar |
| 5812672190 | 6 W | External | -0,95 ... 10 bar |
| 5812673190 | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812670190 | Plug EN 175301-803, form A | - |
| 5812671190 | Plug EN 175301-803, form A | with throttle |
| 5812672190 | Plug EN 175301-803, form A | - |
| 5812673190 | 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.

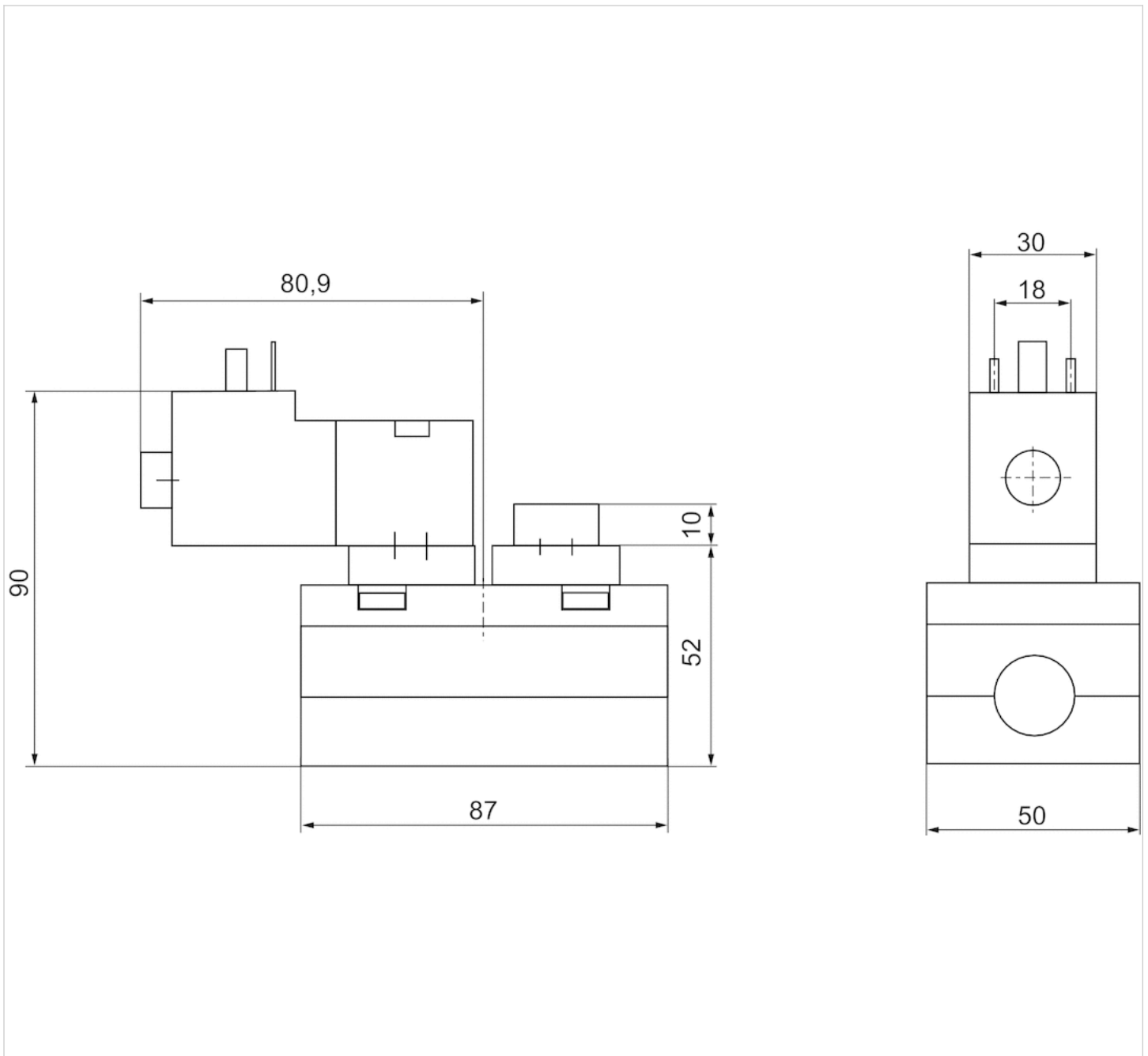
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions











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

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- Qn = 2700 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 2 |
| 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 Qn | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 14 ms |
| Typ. switch-off time | 14 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,79 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812290190 |  |  | 24 V | -10% / +10% |
| 5812291190 |  |  | 24 V | -10% / +10% |
| 5812292190 |  |  | 24 V | -10% / +10% |
| 5812293190 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------|----------------------------|
| 5812290190 | 6 W | Internal | 1,5 ... 10 bar |
| 5812291190 | 6 W | Internal | 1,5 ... 10 bar |
| 5812292190 | 6 W | External | -0,95 ... 10 bar |
| 5812293190 | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812290190 | Plug EN 175301-803, form A | - |
| 5812291190 | Plug EN 175301-803, form A | with throttle |
| 5812292190 | Plug EN 175301-803, form A | - |
| 5812293190 | 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.

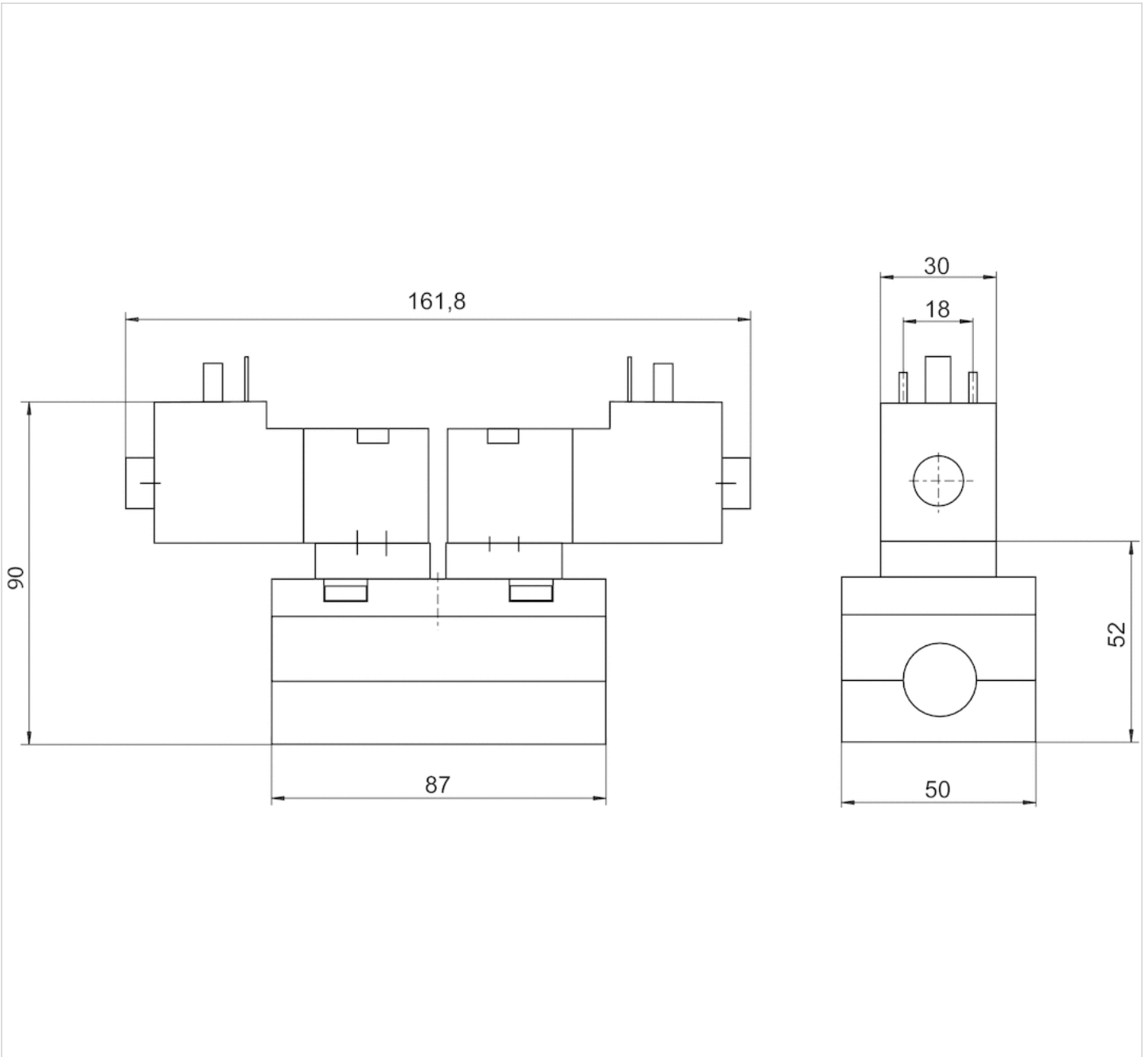
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



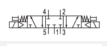

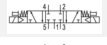



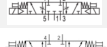

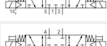

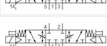

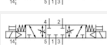

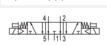







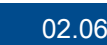

5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- Qn = 2100 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 36 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,71 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|------------------|------------------------|
| 5812490540 |  |  | closed center | 24 V |
| 5812490440 |  |  | closed center | - |
| 5812491540 |  |  | closed center | 24 V |
| 5812491440 |  |  | closed center | - |
| 5812492540 |  |  | closed center | 24 V |
| 5812492440 |  |  | closed center | - |
| 5812493540 |  |  | closed center | 24 V |
| 5812493440 |  |  | closed center | - |
| 5812590540 |  |  | exhausted center | 24 V |
| 5812590440 |  |  | exhausted center | - |
| 5812591540 |  |  | exhausted center | 24 V |
| 5812591440 |  |  | exhausted center | - |

| Part No. | | MO | | Operational voltage DC |
|------------|--|----|--------------------|------------------------|
| 5812592540 | | | exhausted center | 24 V |
| 5812592440 | | | exhausted center | - |
| 5812593540 | | | exhausted center | 24 V |
| 5812593440 | | | exhausted center | - |
| 5812790540 | | | pressurized center | 24 V |
| 5812790440 | | | pressurized center | - |
| 5812791540 | | | pressurized center | 24 V |
| 5812791440 | | | pressurized center | - |
| 5812792540 | | | pressurized center | 24 V |
| 5812792440 | | | pressurized center | - |
| 5812793540 | | | pressurized center | 24 V |
| 5812793440 | | | pressurized center | - |

| Part No. | Operational voltage AC 50 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz |
|------------|------------------------------|----------------------|----------------------------|
| 5812490540 | 42 V | -10% / +10% | -10% / +10% |
| 5812490440 | 230 V | - | -10% / +10% |
| 5812491540 | 42 V | -10% / +10% | -10% / +10% |
| 5812491440 | 230 V | - | -10% / +10% |
| 5812492540 | 42 V | -10% / +10% | -10% / +10% |
| 5812492440 | 230 V | - | -10% / +10% |
| 5812493540 | 42 V | -10% / +10% | -10% / +10% |
| 5812493440 | 230 V | - | -10% / +10% |
| 5812590540 | 42 V | -10% / +10% | -10% / +10% |
| 5812590440 | 230 V | - | -10% / +10% |
| 5812591540 | 42 V | -10% / +10% | -10% / +10% |
| 5812591440 | 230 V | - | -10% / +10% |
| 5812592540 | 42 V | -10% / +10% | -10% / +10% |
| 5812592440 | 230 V | - | -10% / +10% |
| 5812593540 | 42 V | -10% / +10% | -10% / +10% |
| 5812593440 | 230 V | - | -10% / +10% |
| 5812790540 | 42 V | -10% / +10% | -10% / +10% |
| 5812790440 | 230 V | - | -10% / +10% |
| 5812791540 | 42 V | -10% / +10% | -10% / +10% |
| 5812791440 | 230 V | - | -10% / +10% |
| 5812792540 | 42 V | -10% / +10% | -10% / +10% |
| 5812792440 | 230 V | - | -10% / +10% |
| 5812793540 | 42 V | -10% / +10% | -10% / +10% |
| 5812793440 | 230 V | - | -10% / +10% |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz | Pilot |
|------------|----------------------|------------------------|--------------------------|----------|
| 5812490540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5812490440 | - | 10,8 VA | 15,2 VA | Internal |
| 5812491540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5812491440 | - | 10,8 VA | 15,2 VA | Internal |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz | Pilot |
|------------|-------------------------|---------------------------|-----------------------------|----------|
| 5812492540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5812492440 | - | 10,8 VA | 15,2 VA | External |
| 5812493540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5812493440 | - | 10,8 VA | 15,2 VA | External |
| 5812590540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5812590440 | - | 10,8 VA | 15,2 VA | Internal |
| 5812591540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5812591440 | - | 10,8 VA | 15,2 VA | Internal |
| 5812592540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5812592440 | - | 10,8 VA | 15,2 VA | External |
| 5812593540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5812593440 | - | 10,8 VA | 15,2 VA | External |
| 5812790540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5812790440 | - | 10,8 VA | 15,2 VA | Internal |
| 5812791540 | 6,7 W | 7,7 VA | 12 VA | Internal |
| 5812791440 | - | 10,8 VA | 15,2 VA | Internal |
| 5812792540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5812792440 | - | 10,8 VA | 15,2 VA | External |
| 5812793540 | 6,7 W | 7,7 VA | 12 VA | External |
| 5812793440 | - | 10,8 VA | 15,2 VA | External |

| Part No. | Working pressure min./max. | Electrical connection Pilot valve | Throttle |
|------------|----------------------------|--------------------------------------|---------------|
| 5812490540 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812490440 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812491540 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812491440 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812492540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812492440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812493540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812493440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812590540 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812590440 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812591540 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812591440 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812592540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812592440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812593540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812593440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812790540 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812790440 | 3 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812791540 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812791440 | 3 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812792540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812792440 | -0,95 ... 16 bar | Plug EN 175301-803, form A | - |
| 5812793540 | -0,95 ... 16 bar | Plug EN 175301-803, form A | with throttle |
| 5812793440 | -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.

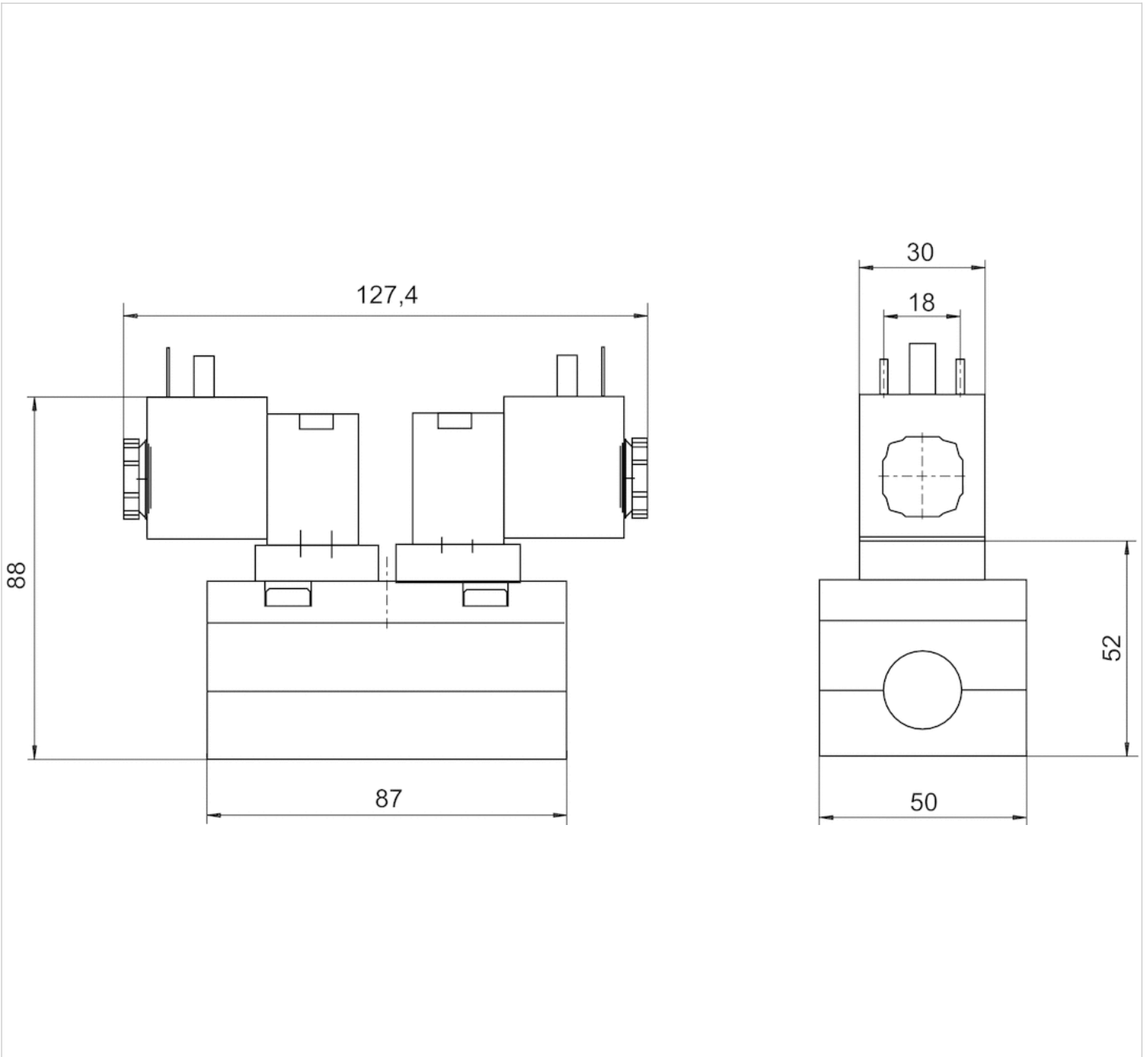
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100$ 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Compatibility index | 14 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 36 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,71 kg |

| Part No. | Operational voltage AC 50 Hz | Voltage tolerance DC | Voltage tolerance AC 50 Hz |
|------------|---------------------------------|-------------------------|-------------------------------|
| 5812790650 | - | -10% / +10% | - |
| 5812790450 | 230 V | - | -10% / +10% |
| 5812791650 | - | -10% / +10% | - |
| 5812791450 | 230 V | - | -10% / +10% |
| 5812792650 | - | -10% / +10% | - |
| 5812792450 | 230 V | - | -10% / +10% |
| 5812793650 | - | -10% / +10% | - |
| 5812793450 | 230 V | - | -10% / +10% |

| Part No. | Power consumption DC | Holding power AC 50 Hz | Switch-on power AC 50 Hz | Pilot |
|------------|-------------------------|---------------------------|-----------------------------|----------|
| 5812490650 | 2 W | - | - | Internal |
| 5812490450 | - | 4,8 VA | 7 VA | Internal |
| 5812491650 | 2 W | - | - | Internal |
| 5812491450 | - | 4,8 VA | 7 VA | Internal |
| 5812492650 | 2 W | - | - | External |
| 5812492450 | - | 4,8 VA | 7 VA | External |
| 5812493650 | 2 W | - | - | External |
| 5812493450 | - | 4,8 VA | 7 VA | External |
| 5812590650 | 2 W | - | - | Internal |
| 5812590450 | - | 4,8 VA | 7 VA | Internal |
| 5812591650 | 2 W | - | - | Internal |
| 5812591450 | - | 4,8 VA | 7 VA | Internal |
| 5812592650 | 2 W | - | - | External |
| 5812592450 | - | 4,8 VA | 7 VA | External |
| 5812593650 | 2 W | - | - | External |
| 5812593450 | - | 4,8 VA | 7 VA | External |
| 5812790650 | 2 W | - | - | Internal |
| 5812790450 | - | 4,8 VA | 7 VA | Internal |
| 5812791650 | 2 W | - | - | Internal |
| 5812791450 | - | 4,8 VA | 7 VA | Internal |
| 5812792650 | 2 W | - | - | External |
| 5812792450 | - | 4,8 VA | 7 VA | External |
| 5812793650 | 2 W | - | - | External |
| 5812793450 | - | 4,8 VA | 7 VA | External |

| Part No. | Working pressure min./max. | Compatibility index | Electrical connection Pilot valve |
|------------|----------------------------|---------------------|--------------------------------------|
| 5812490650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812490450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812491650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812491450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812492650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812492450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812493650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812493450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |

| Part No. | Working pressure min./max. | Compatibility index | Electrical connection Pilot valve |
|------------|----------------------------|---------------------|--------------------------------------|
| 5812590650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812590450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812591650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812591450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812592650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812592450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812593650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812593450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812790650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812790450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812791650 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812791450 | 3 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812792650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812792450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812793650 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |
| 5812793450 | -0,95 ... 10 bar | 14 | Plug EN 175301-803, form A |

| Part No. | Throttle |
|------------|---------------|
| 5812490650 | - |
| 5812490450 | - |
| 5812491650 | with throttle |
| 5812491450 | with throttle |
| 5812492650 | - |
| 5812492450 | - |
| 5812493650 | with throttle |
| 5812493450 | with throttle |
| 5812590650 | - |
| 5812590450 | - |
| 5812591650 | with throttle |
| 5812591450 | with throttle |
| 5812592650 | - |
| 5812592450 | - |
| 5812593650 | with throttle |
| 5812593450 | with throttle |
| 5812790650 | - |
| 5812790450 | - |
| 5812791650 | with throttle |
| 5812791450 | with throttle |
| 5812792650 | - |
| 5812792450 | - |
| 5812793650 | with throttle |
| 5812793450 | 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.

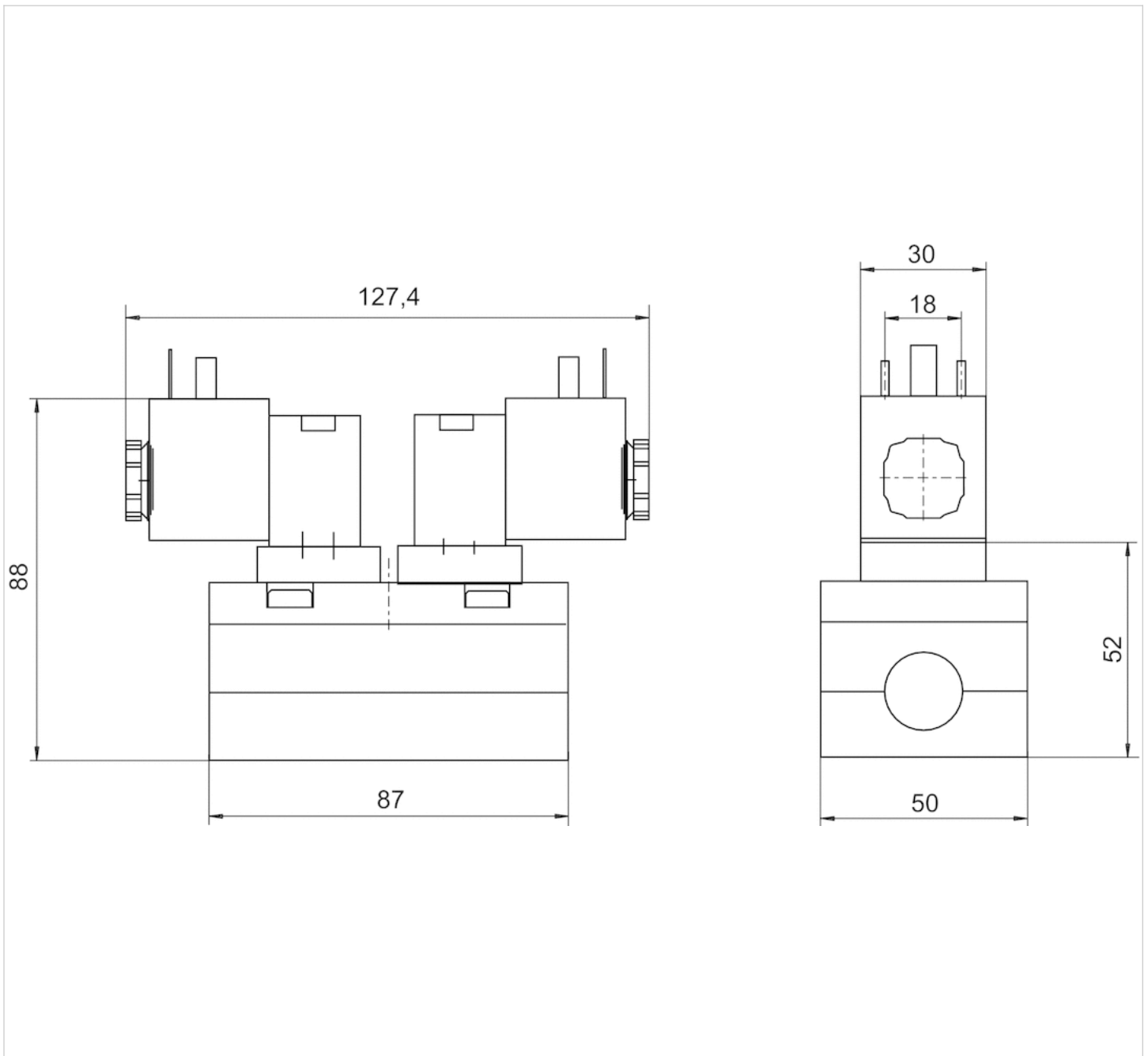
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions





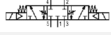
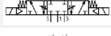
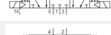
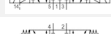
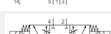
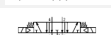


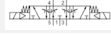

5/3-directional valve, Series 581, size 2

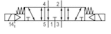


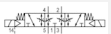

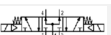
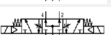

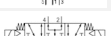
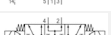
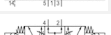
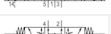
- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- $Q_n = 2100$ l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, EN 175301-803, form A
- Manual override without



| | |
|----------------------------------|-----------------------------|
| Type | Spool valve |
| Sealing principle | Soft sealing |
| Blocking principle | Single base plate principle |
| Connection type | Plate connection |
| Standards | ISO 5599-1, ISO 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 36 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,71 kg |

Technical data

| Part No. | | | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|------------------|------------------------|------------------------------|
| 5812490530 |  | closed center | 24 V | - |
| 5812490430 |  | closed center | - | 230 V |
| 5812491530 |  | closed center | 24 V | - |
| 5812491430 |  | closed center | - | 230 V |
| 5812492530 |  | closed center | 24 V | - |
| 5812492430 |  | closed center | - | 230 V |
| 5812493530 |  | closed center | 24 V | - |
| 5812493430 |  | closed center | - | 230 V |
| 5812590530 |  | exhausted center | 24 V | - |
| 5812590430 |  | exhausted center | - | 230 V |
| 5812591530 |  | exhausted center | 24 V | - |
| 5812591430 |  | exhausted center | - | 230 V |

| Part No. | | | Operational voltage DC | Operational voltage AC 50 Hz |
|------------|---|--------------------|------------------------|------------------------------|
| 5812592530 |  | exhausted center | 24 V | - |
| 5812592430 |  | exhausted center | - | 230 V |
| 5812593530 |  | exhausted center | 24 V | - |
| 5812593430 |  | exhausted center | - | 230 V |
| 5812790530 |  | pressurized center | 24 V | - |
| 5812790430 |  | pressurized center | - | 230 V |
| 5812791530 |  | pressurized center | 24 V | - |
| 5812791430 |  | pressurized center | - | 230 V |
| 5812792530 |  | pressurized center | 24 V | - |
| 5812792430 |  | pressurized center | - | 230 V |
| 5812793530 |  | pressurized center | 24 V | - |
| 5812793430 |  | pressurized center | - | 230 V |

| Part No. | Voltage tolerance DC | Voltage tolerance AC 50 Hz | Power consumption DC | Holding power AC 50 Hz |
|------------|----------------------|----------------------------|----------------------|------------------------|
| 5812490530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812490430 | - | -10% / +10% | - | 10,8 VA |
| 5812491530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812491430 | - | -10% / +10% | - | 10,8 VA |
| 5812492530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812492430 | - | -10% / +10% | - | 10,8 VA |
| 5812493530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812493430 | - | -10% / +10% | - | 10,8 VA |
| 5812590530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812590430 | - | -10% / +10% | - | 10,8 VA |
| 5812591530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812591430 | - | -10% / +10% | - | 10,8 VA |
| 5812592530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812592430 | - | -10% / +10% | - | 10,8 VA |
| 5812593530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812593430 | - | -10% / +10% | - | 10,8 VA |
| 5812790530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812790430 | - | -10% / +10% | - | 10,8 VA |
| 5812791530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812791430 | - | -10% / +10% | - | 10,8 VA |
| 5812792530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812792430 | - | -10% / +10% | - | 10,8 VA |
| 5812793530 | -10% / +10% | -10% / +10% | 6,7 W | - |
| 5812793430 | - | -10% / +10% | - | 10,8 VA |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|--------------------------|----------|----------------------------|
| 5812490530 | - | Internal | 3 ... 16 bar |
| 5812490430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812491530 | - | Internal | 3 ... 16 bar |
| 5812491430 | 15,2 VA | Internal | 3 ... 16 bar |

| Part No. | Switch-on power AC 50 Hz | Pilot | Working pressure min./max. |
|------------|-----------------------------|----------|----------------------------|
| 5812492530 | - | External | -0,95 ... 16 bar |
| 5812492430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812493530 | - | External | -0,95 ... 16 bar |
| 5812493430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812590530 | - | Internal | 3 ... 16 bar |
| 5812590430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812591530 | - | Internal | 3 ... 16 bar |
| 5812591430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812592530 | - | External | -0,95 ... 16 bar |
| 5812592430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812593530 | - | External | -0,95 ... 16 bar |
| 5812593430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812790530 | - | Internal | 3 ... 16 bar |
| 5812790430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812791530 | - | Internal | 3 ... 16 bar |
| 5812791430 | 15,2 VA | Internal | 3 ... 16 bar |
| 5812792530 | - | External | -0,95 ... 16 bar |
| 5812792430 | 15,2 VA | External | -0,95 ... 16 bar |
| 5812793530 | - | External | -0,95 ... 16 bar |
| 5812793430 | 15,2 VA | External | -0,95 ... 16 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|--------------------------------------|---------------|
| 5812490530 | Plug EN 175301-803, form A | - |
| 5812490430 | Plug EN 175301-803, form A | - |
| 5812491530 | Plug EN 175301-803, form A | with throttle |
| 5812491430 | Plug EN 175301-803, form A | with throttle |
| 5812492530 | Plug EN 175301-803, form A | - |
| 5812492430 | Plug EN 175301-803, form A | - |
| 5812493530 | Plug EN 175301-803, form A | with throttle |
| 5812493430 | Plug EN 175301-803, form A | with throttle |
| 5812590530 | Plug EN 175301-803, form A | - |
| 5812590430 | Plug EN 175301-803, form A | - |
| 5812591530 | Plug EN 175301-803, form A | with throttle |
| 5812591430 | Plug EN 175301-803, form A | with throttle |
| 5812592530 | Plug EN 175301-803, form A | - |
| 5812592430 | Plug EN 175301-803, form A | - |
| 5812593530 | Plug EN 175301-803, form A | with throttle |
| 5812593430 | Plug EN 175301-803, form A | with throttle |
| 5812790530 | Plug EN 175301-803, form A | - |
| 5812790430 | Plug EN 175301-803, form A | - |
| 5812791530 | Plug EN 175301-803, form A | with throttle |
| 5812791430 | Plug EN 175301-803, form A | with throttle |
| 5812792530 | Plug EN 175301-803, form A | - |
| 5812792430 | Plug EN 175301-803, form A | - |
| 5812793530 | Plug EN 175301-803, form A | with throttle |
| 5812793430 | Plug EN 175301-803, form A | with throttle |

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

Technical information

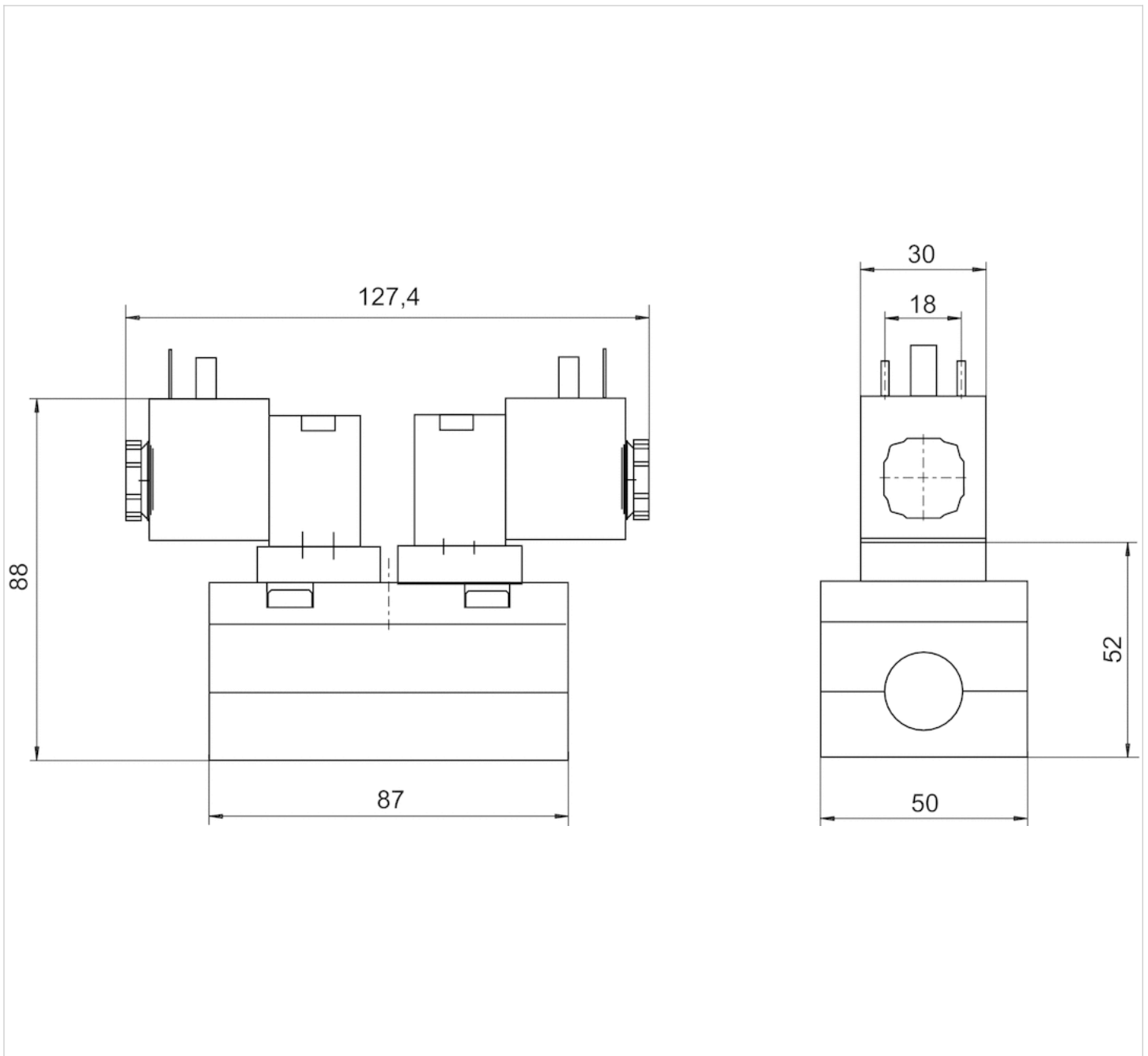
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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



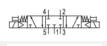



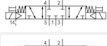



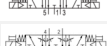

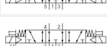

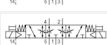

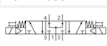



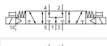



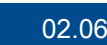

5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center exhausted center pressurized center
- Qn = 2100 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 17 ms |
| Typ. switch-off time | 36 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,79 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5812490190 |  |  | closed center | 24 V |
| 5812491190 |  |  | closed center | 24 V |
| 5812492190 |  |  | closed center | 24 V |
| 5812493190 |  |  | closed center | 24 V |
| 5812590190 |  |  | exhausted center | 24 V |
| 5812591190 |  |  | exhausted center | 24 V |
| 5812592190 |  |  | exhausted center | 24 V |
| 5812593190 |  |  | exhausted center | 24 V |
| 5812790190 |  |  | pressurized center | 24 V |
| 5812791190 |  |  | pressurized center | 24 V |
| 5812792190 |  |  | pressurized center | 24 V |
| 5812793190 |  |  | pressurized center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Working pressure min./max. |
|------------|----------------------|----------------------|----------|----------------------------|
| 5812490190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5812491190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5812492190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5812493190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5812590190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5812591190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5812592190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5812593190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5812790190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5812791190 | -10% / +10% | 6 W | Internal | 3 ... 10 bar |
| 5812792190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |
| 5812793190 | -10% / +10% | 6 W | External | -0,95 ... 10 bar |

| Part No. | Electrical connection Pilot valve | Throttle |
|------------|-----------------------------------|---------------|
| 5812490190 | Plug EN 175301-803, form A | - |
| 5812491190 | Plug EN 175301-803, form A | with throttle |
| 5812492190 | Plug EN 175301-803, form A | - |
| 5812493190 | Plug EN 175301-803, form A | with throttle |
| 5812590190 | Plug EN 175301-803, form A | - |
| 5812591190 | Plug EN 175301-803, form A | with throttle |
| 5812592190 | Plug EN 175301-803, form A | - |
| 5812593190 | Plug EN 175301-803, form A | with throttle |
| 5812790190 | Plug EN 175301-803, form A | - |
| 5812791190 | Plug EN 175301-803, form A | with throttle |
| 5812792190 | Plug EN 175301-803, form A | - |
| 5812793190 | 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.

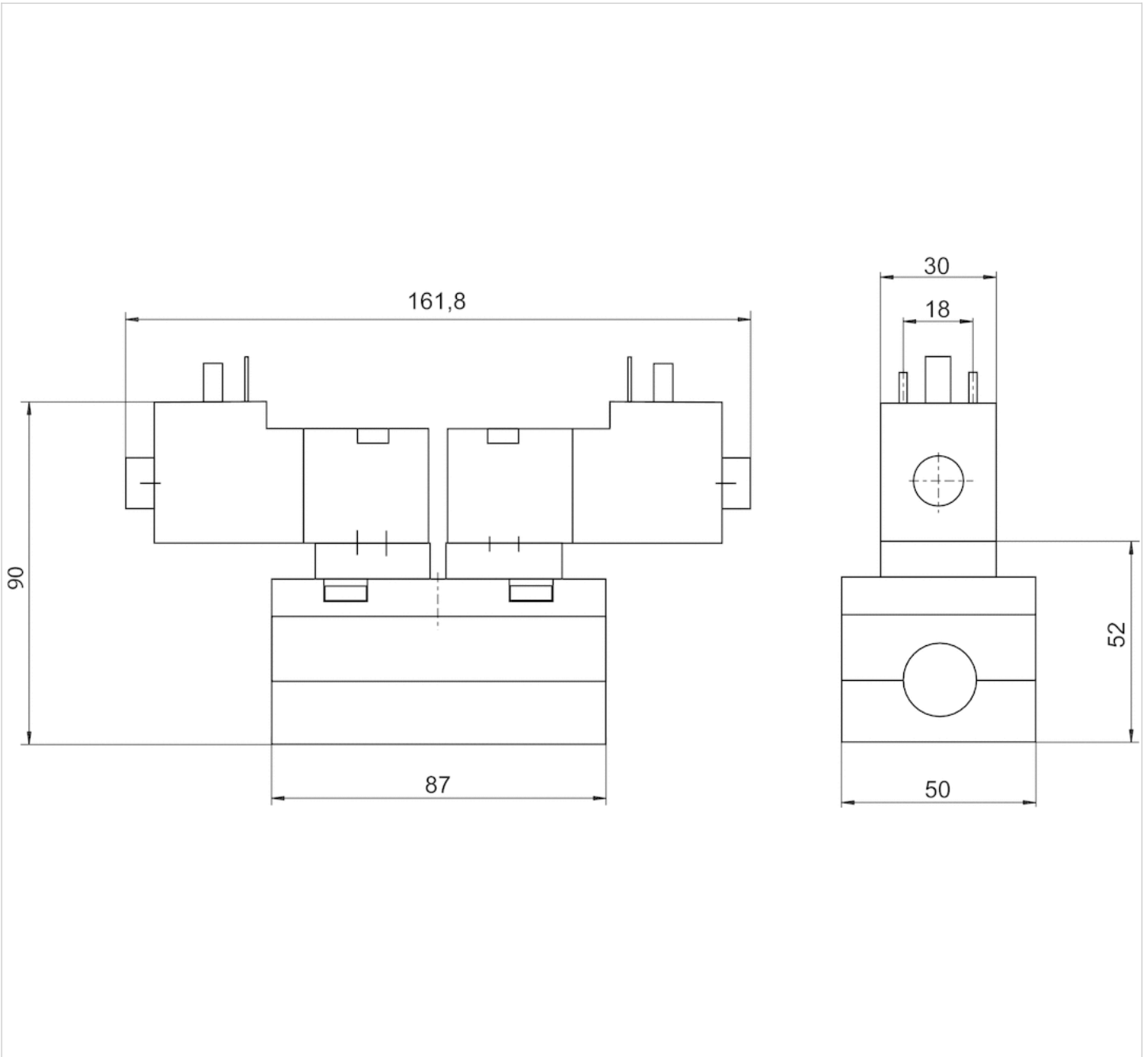
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- With differential piston
- With air spring return
- Qn = 2700 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 2 |
| 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/m³ |
| Nominal flow Qn | 2700 l/min |
| Flow conductance C | 10.8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 35 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3.5 Nm |
| Weight | 0.28 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|--|----|------------------------|----------------------|
| 5812612720 | | | 24 V | -10% / +10% |
| 5812612710 | | | 24 V | -10% / +10% |
| 5812610720 | | | 24 V | -10% / +10% |
| 5812610710 | | | 24 V | -10% / +10% |
| 5812613720 | | | 24 V | -10% / +10% |
| 5812613710 | | | 24 V | -10% / +10% |
| 5812611720 | | | 24 V | -10% / +10% |
| 5812611710 | | | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|-------------------------|----------|--------------------------------------|---------------|
| 5812612720 | 0.35 W | External | Plug M12 4-pin | - |
| 5812612710 | 0.35 W | External | Plug M12 4-pin | - |
| 5812610720 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5812610710 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5812613720 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5812613710 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5812611720 | 0.35 W | Internal | Plug M12 4-pin | with throttle |
| 5812611710 | 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).

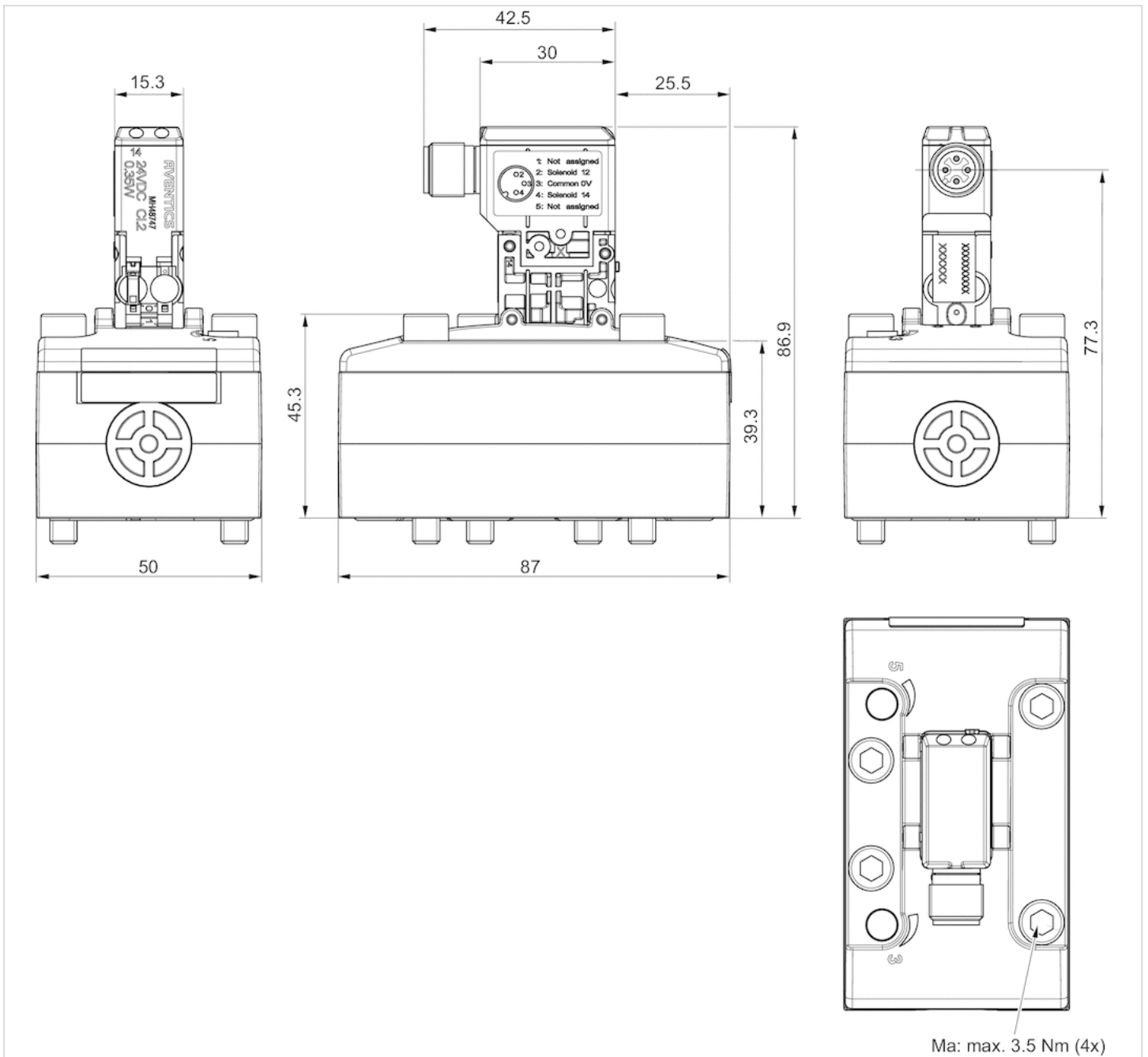
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

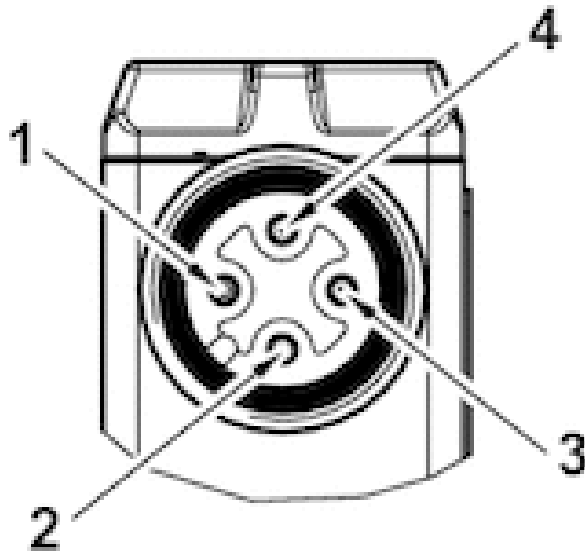
Dimensions

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 2

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10.8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 35 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3.5 Nm |
| Weight | 0.28 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812112720 |  |  | 24 V | -10% / +10% |
| 5812112710 |  |  | 24 V | -10% / +10% |
| 5812110720 |  |  | 24 V | -10% / +10% |
| 5812110710 |  |  | 24 V | -10% / +10% |
| 5812113720 |  |  | 24 V | -10% / +10% |
| 5812113710 |  |  | 24 V | -10% / +10% |
| 5812111720 |  |  | 24 V | -10% / +10% |
| 5812111710 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|-------------------------|----------|--------------------------------------|---------------|
| 5812112720 | 0.35 W | External | Plug M12 4-pin | - |
| 5812112710 | 0.35 W | External | Plug M12 4-pin | - |
| 5812110720 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5812110710 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5812113720 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5812113710 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5812111720 | 0.35 W | Internal | Plug M12 4-pin | with throttle |
| 5812111710 | 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).

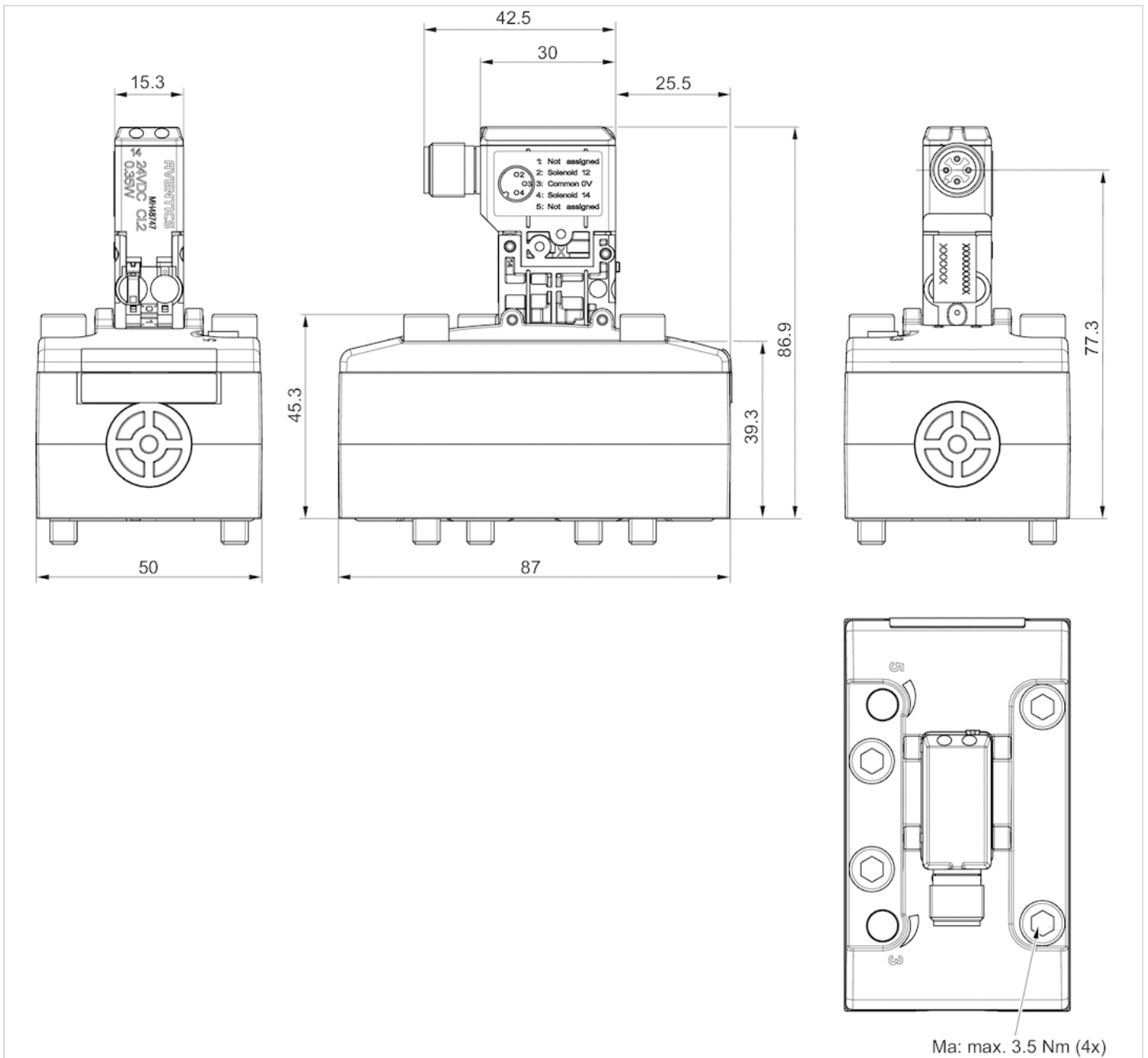
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

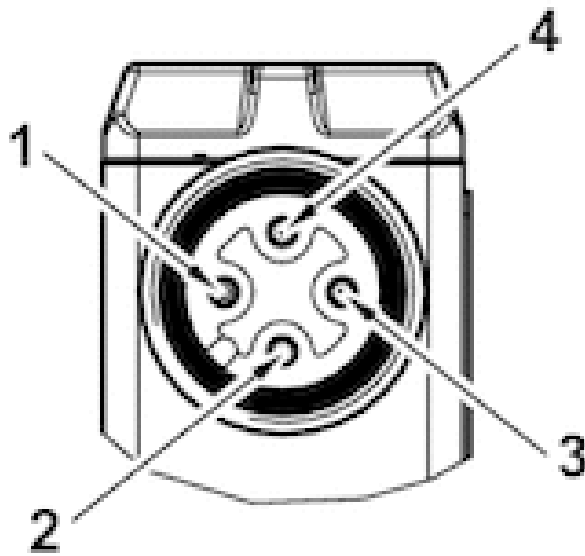
Dimensions

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 2

- ISO 5599-1
- ISO 2
- 5/2
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10.8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 15 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3.5 Nm |
| Weight | 0.28 kg |

Technical data

| Part No. | | MO | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|------------------------|----------------------|
| 5812222720 |  |  | 24 V | -10% / +10% |
| 5812222710 |  |  | 24 V | -10% / +10% |
| 5812220720 |  |  | 24 V | -10% / +10% |
| 5812220710 |  |  | 24 V | -10% / +10% |
| 5812223710 |  |  | 24 V | -10% / +10% |
| 5812223720 |  |  | 24 V | -10% / +10% |
| 5812221720 |  |  | 24 V | -10% / +10% |
| 5812221710 |  |  | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|----------------------|----------|-----------------------------------|----------|
| 5812222720 | 0.35 W | External | Plug M12 4-pin | - |

| Part No. | Power consumption DC | Pilot | Electrical connection Pilot valve | Throttle |
|------------|-------------------------|----------|--------------------------------------|---------------|
| 5812222710 | 0.35 W | External | Plug M12 4-pin | - |
| 5812220720 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5812220710 | 0.35 W | Internal | Plug M12 4-pin | - |
| 5812223710 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5812223720 | 0.35 W | External | Plug M12 4-pin | with throttle |
| 5812221720 | 0.35 W | Internal | Plug M12 4-pin | with throttle |
| 5812221710 | 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).

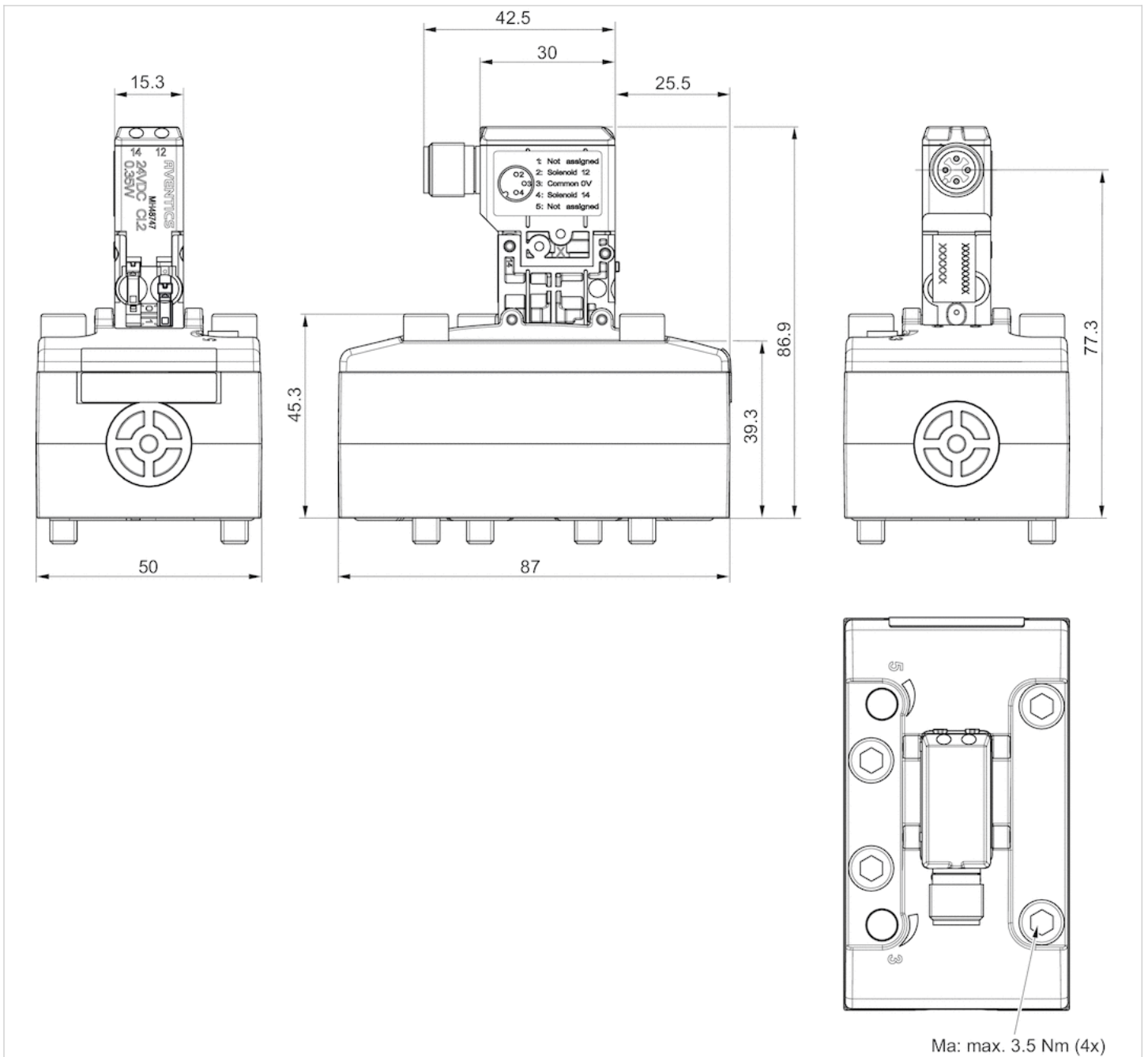
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

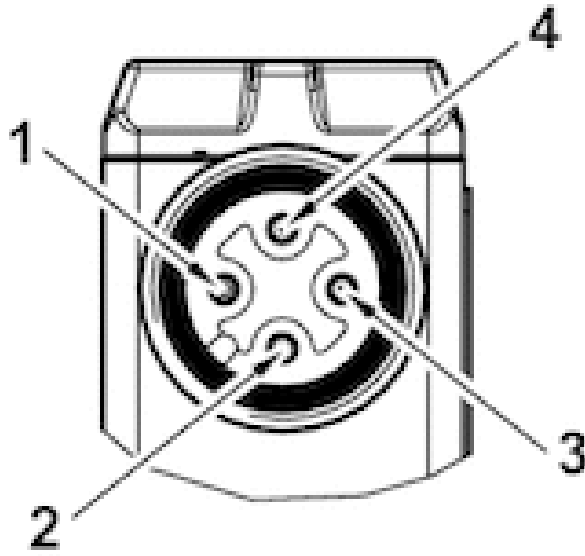
Dimensions

Dimensions



Pin assignments

Pin assignments



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

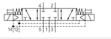

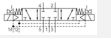

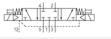

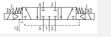

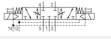

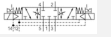

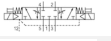

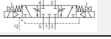

5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- closed center
- $Q_n = 2100$ 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 2 |
| 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 | 2100 l/min |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 35 ms |
| Mounting screw | with hexagon socket |
| Weight | 0.28 kg |

Technical data

| Part No. | | MO | | Operational voltage DC | Voltage tolerance DC |
|------------|---|---|---------------|------------------------|----------------------|
| 5812422720 |  |  | closed center | 24 V | -10% / +10% |
| 5812422710 |  |  | closed center | 24 V | -10% / +10% |
| 5812420720 |  |  | closed center | 24 V | -10% / +10% |
| 5812420710 |  |  | closed center | 24 V | -10% / +10% |
| 5812423720 |  |  | closed center | 24 V | -10% / +10% |
| 5812423710 |  |  | closed center | 24 V | -10% / +10% |
| 5812421720 |  |  | closed center | 24 V | -10% / +10% |
| 5812421710 |  |  | closed center | 24 V | -10% / +10% |

| Part No. | Power consumption DC | Pilot | Flow conductance C-value | Electrical connection Pilot valve |
|------------|----------------------|----------|--------------------------|-----------------------------------|
| 5812422720 | 0.35 W | External | 14.1 l/(s*bar) | Plug M12 4-pin |
| 5812422710 | 0.35 W | External | 14.1 l/(s*bar) | Plug M12 4-pin |
| 5812420720 | 0.35 W | Internal | 8.9 l/(s*bar) | Plug M12 4-pin |

| Part No. | Power consumption DC | Pilot | Flow conductance C-value | Electrical connection Pilot valve |
|------------|-------------------------|----------|-----------------------------|--------------------------------------|
| 5812420710 | 0.35 W | Internal | 8.9 l/(s*bar) | Plug M12 4-pin |
| 5812423720 | 0.35 W | External | 8.9 l/(s*bar) | Plug M12 4-pin |
| 5812423710 | 0.35 W | External | 8.9 l/(s*bar) | Plug M12 4-pin |
| 5812421720 | 0.35 W | Internal | 8.9 l/(s*bar) | Plug M12 4-pin |
| 5812421710 | 0.35 W | Internal | 8.9 l/(s*bar) | Plug M12 4-pin |

| Part No. | Throttle |
|------------|---------------|
| 5812422720 | - |
| 5812422710 | - |
| 5812420720 | - |
| 5812420710 | - |
| 5812423720 | with throttle |
| 5812423710 | with throttle |
| 5812421720 | with throttle |
| 5812421710 | 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).

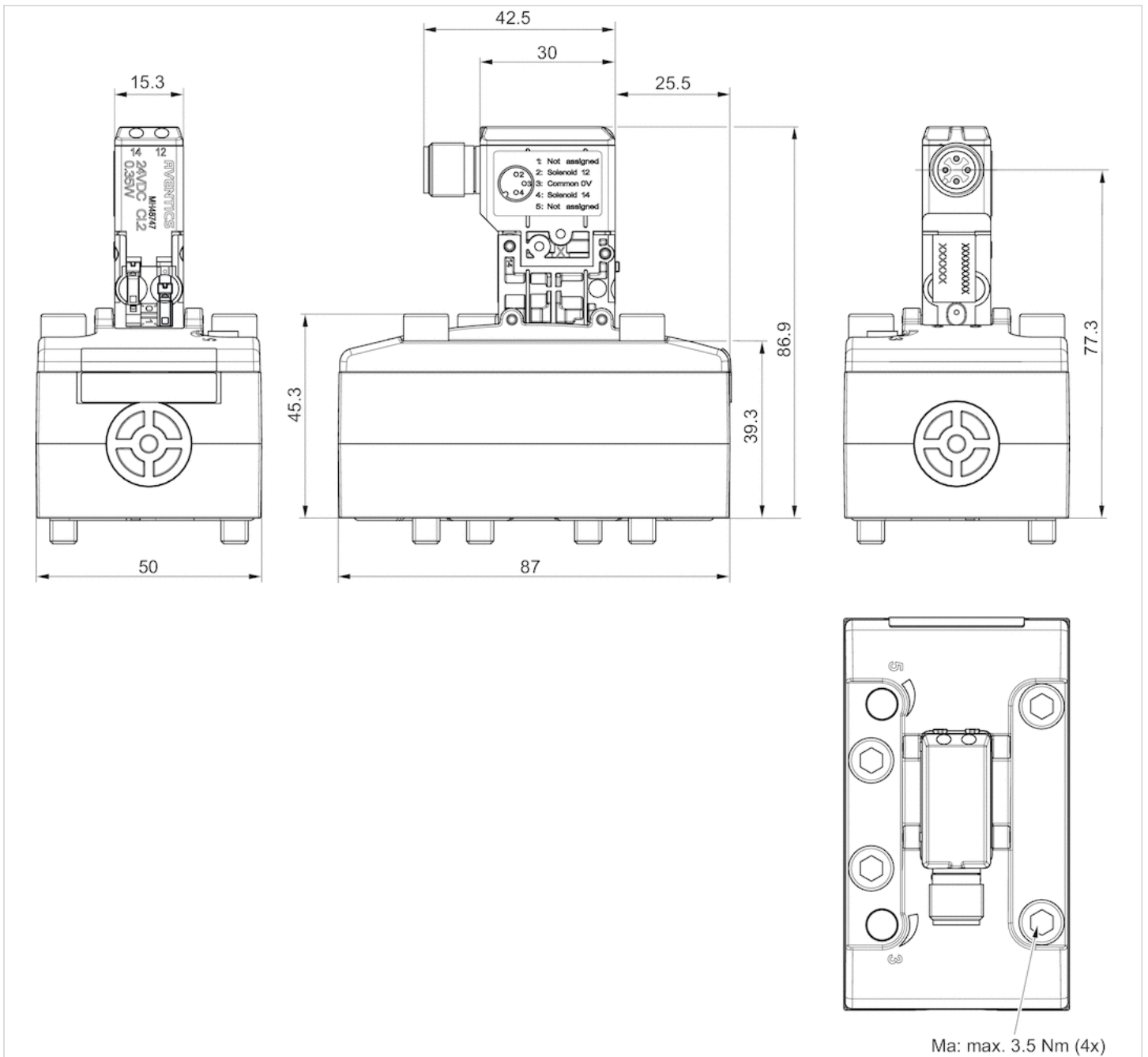
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

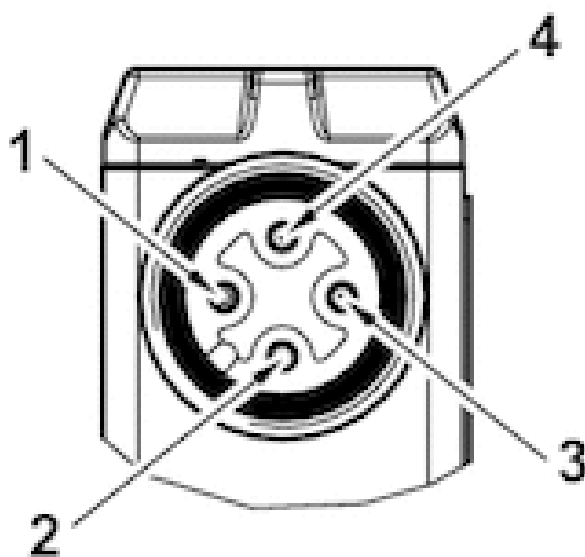
Dimensions

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 2

- ISO 5599-1
- ISO 2
- 5/3
- exhausted center
- $Q_n = 2100 \text{ l/min}$
- 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8.9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 35 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3.5 Nm |
| Weight | 0.28 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|------------------|------------------------|
| 5812522720 |  |  | exhausted center | 24 V |
| 5812522710 |  |  | exhausted center | 24 V |
| 5812520720 |  |  | exhausted center | 24 V |
| 5812520710 |  |  | exhausted center | 24 V |
| 5812523720 |  |  | exhausted center | 24 V |
| 5812523710 |  |  | exhausted center | 24 V |
| 5812521720 |  |  | exhausted center | 24 V |
| 5812521710 |  |  | exhausted center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|----------------------|----------------------|----------|-----------------------------------|
| 5812522720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|----------------------|----------------------|----------|-----------------------------------|
| 5812522710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5812520720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5812520710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5812523720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5812523710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5812521720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5812521710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |

| Part No. | Throttle |
|------------|---------------|
| 5812522720 | - |
| 5812522710 | - |
| 5812520720 | - |
| 5812520710 | - |
| 5812523720 | with throttle |
| 5812523710 | with throttle |
| 5812521720 | with throttle |
| 5812521710 | 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).

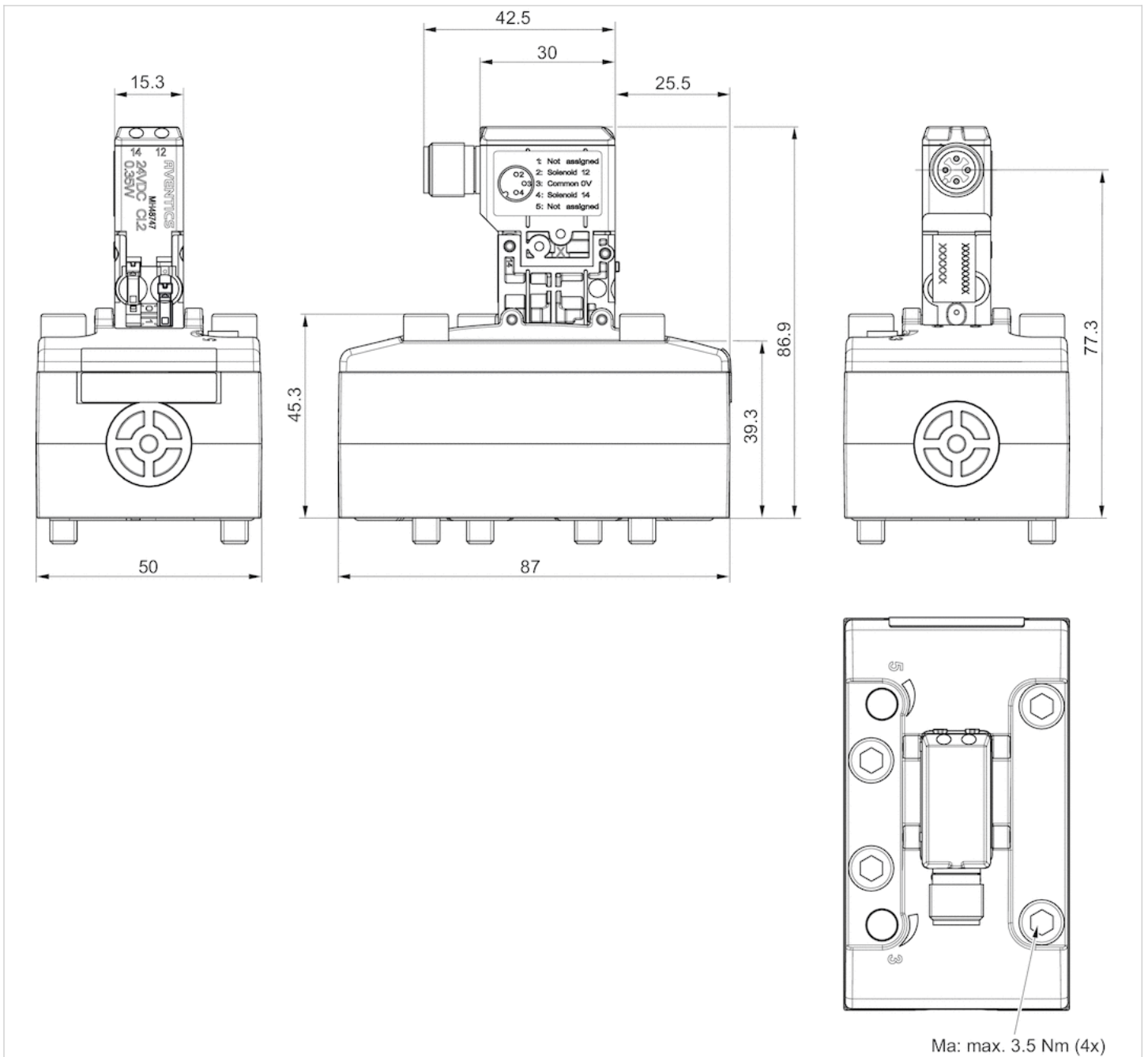
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

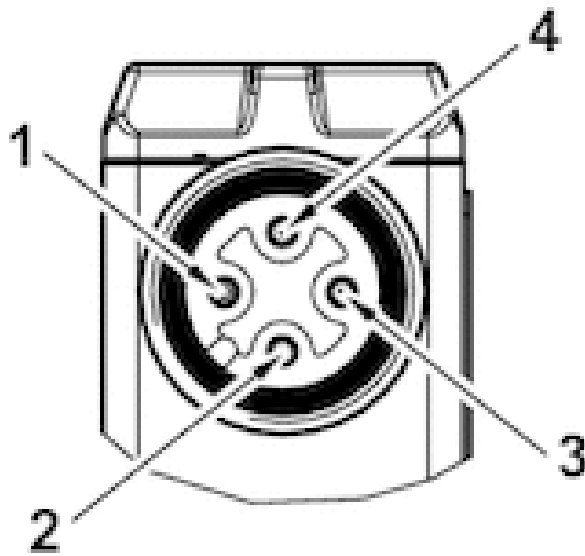
Dimensions

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 2

- ISO 5599-1
- ISO 2
- 5/3
- pressurized center
- Qn = 2100 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8.9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Typ. switch-on time | 15 ms |
| Typ. switch-off time | 35 ms |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3.5 Nm |
| Weight | 0.28 kg |

Technical data

| Part No. | | MO | | Operational voltage DC |
|------------|---|---|--------------------|------------------------|
| 5812722720 |  |  | pressurized center | 24 V |
| 5812722710 |  |  | pressurized center | 24 V |
| 5812720720 |  |  | pressurized center | 24 V |
| 5812720710 |  |  | pressurized center | 24 V |
| 5812723720 |  |  | pressurized center | 24 V |
| 5812723710 |  |  | pressurized center | 24 V |
| 5812721720 |  |  | pressurized center | 24 V |
| 5812721710 |  |  | pressurized center | 24 V |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|----------------------|----------------------|----------|-----------------------------------|
| 5812722720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |

| Part No. | Voltage tolerance DC | Power consumption DC | Pilot | Electrical connection Pilot valve |
|------------|-------------------------|-------------------------|----------|--------------------------------------|
| 5812722710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5812720720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5812720710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5812723720 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5812723710 | -10% / +10% | 0.35 W | External | Plug M12 4-pin |
| 5812721720 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |
| 5812721710 | -10% / +10% | 0.35 W | Internal | Plug M12 4-pin |

| Part No. | Throttle |
|------------|---------------|
| 5812722720 | - |
| 5812722710 | - |
| 5812720720 | - |
| 5812720710 | - |
| 5812723720 | with throttle |
| 5812723710 | with throttle |
| 5812721720 | with throttle |
| 5812721710 | 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).

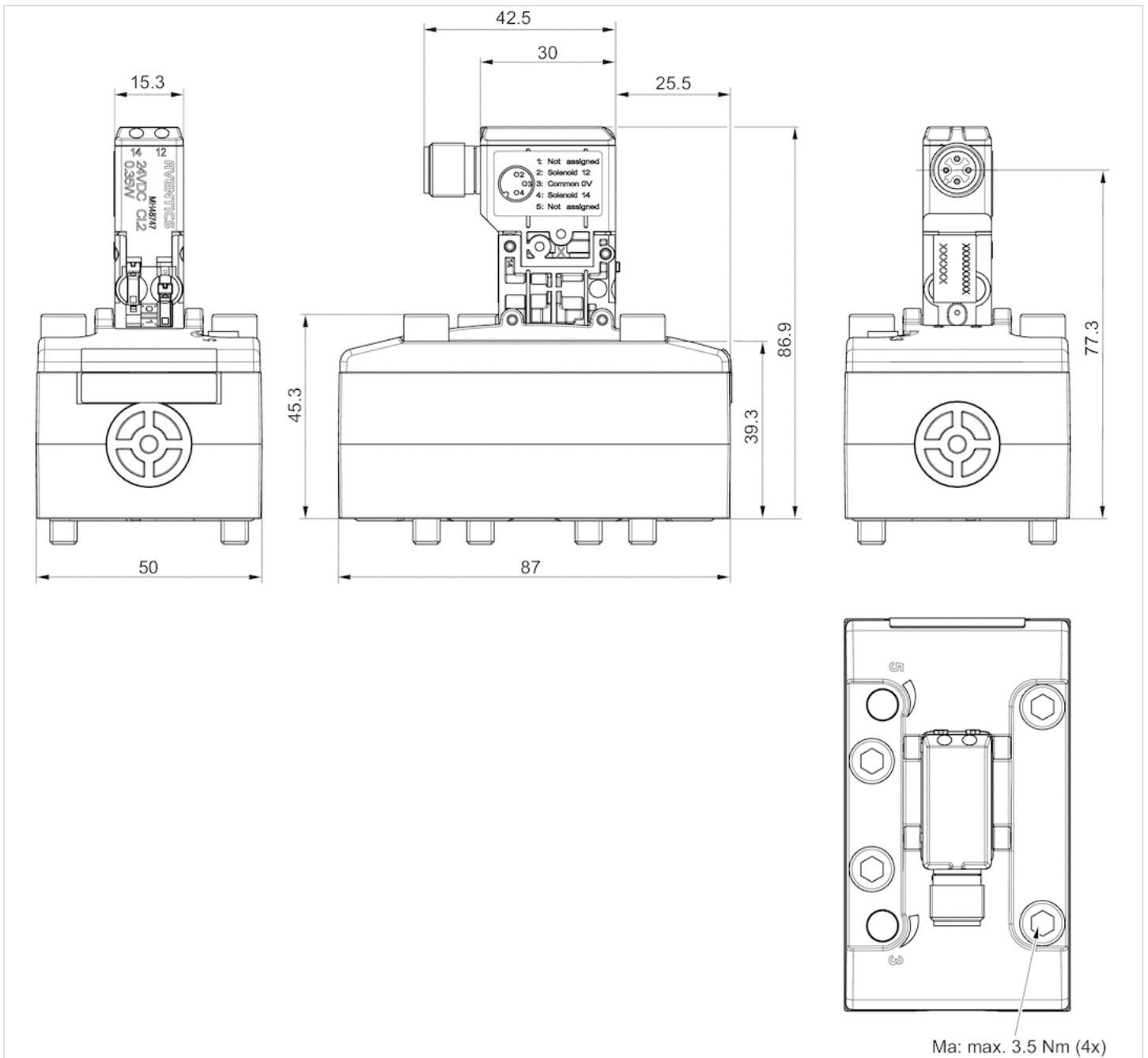
Switch-on power: 1 W for 40 ms

Technical information

| | |
|---------|----------------------------------|
| Housing | Polyamide fiber-glass reinforced |
| Seals | Acrylonitrile butadiene rubber |

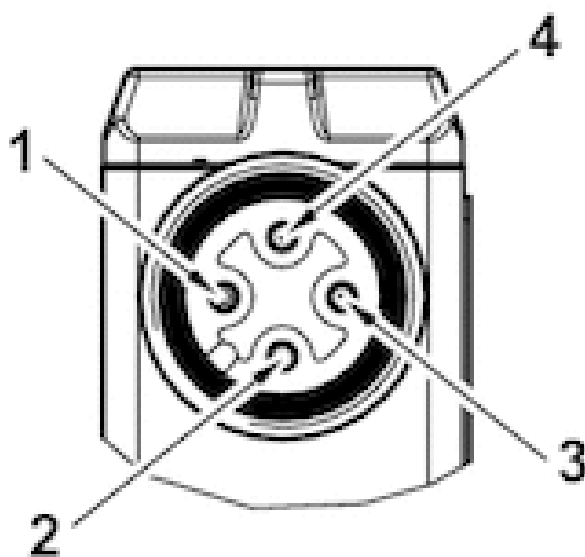
Dimensions

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 2

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Throttle |
|------------|---|---------------|
| 5812180000 |  | - |
| 5812181000 |  | 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

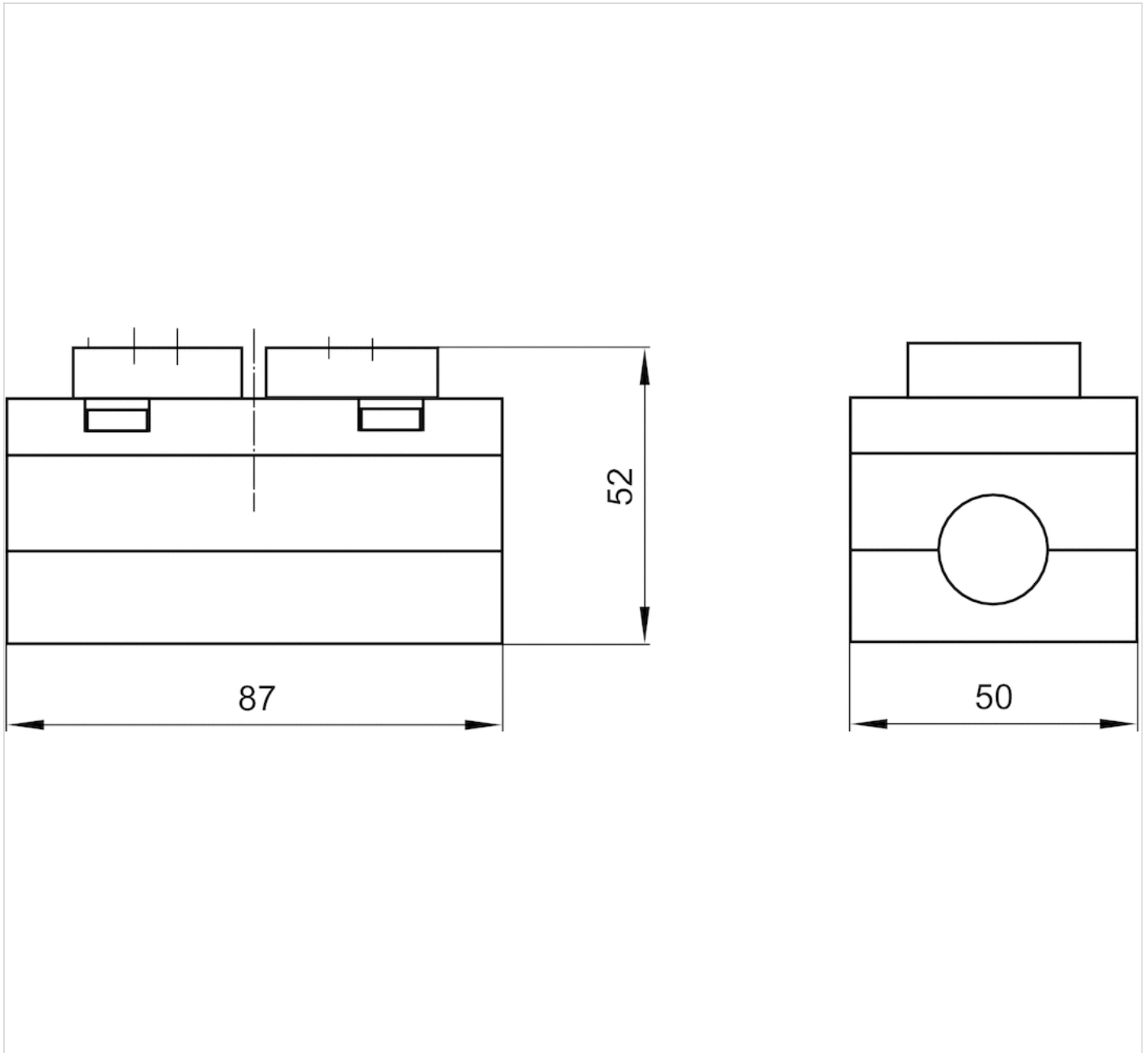
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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 2

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Throttle |
|------------|---|---------------|
| 5812280000 |  | - |
| 5812281000 |  | 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

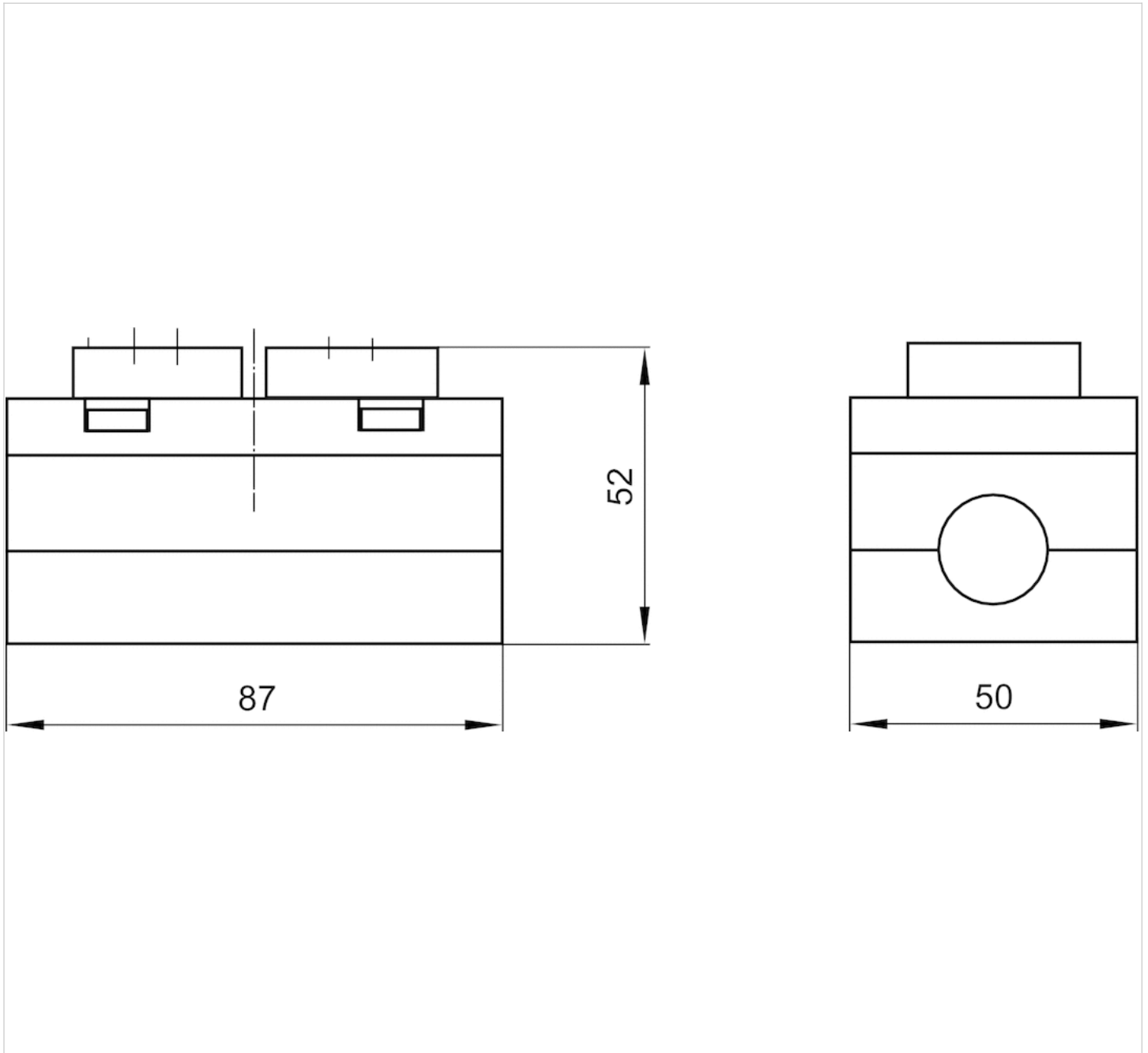
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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 2

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve, with differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 $\text{l}/(\text{s} \cdot \text{bar})$ |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Throttle |
|------------|---|---------------|
| 5812680000 |  | - |
| 5812681000 |  | 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., 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).

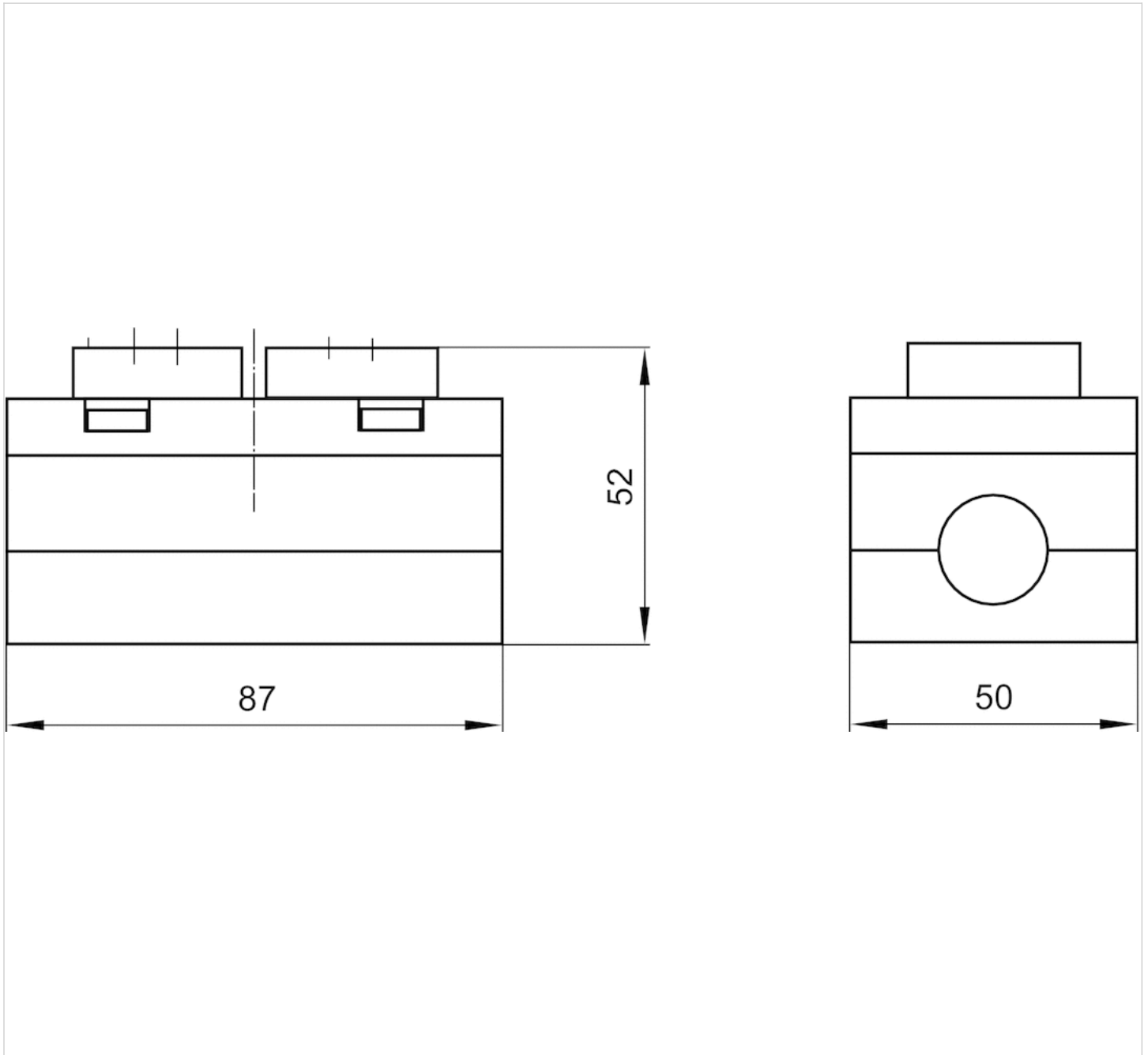
Differential piston, signal 14 has priority
 The minimum pilot pressure at port 14 is dependent on the pressure in port 1.
 valves are fitted with change-over block

Technical information

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

Dimensions

Dimensions




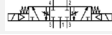
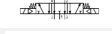

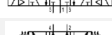
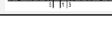
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- 5/3
- Basic valve for CNOMO pilot valve
- closed center exhausted center pressurized center
- $Q_n = 2100 \text{ l/min}$
- 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 2 |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | | Throttle |
|------------|---|--------------------|---------------|
| 5812480000 |  | closed center | - |
| 5812481000 |  | closed center | with throttle |
| 5812580000 |  | exhausted center | - |
| 5812581000 |  | exhausted center | with throttle |
| 5812780000 |  | pressurized center | - |
| 5812781000 |  | 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

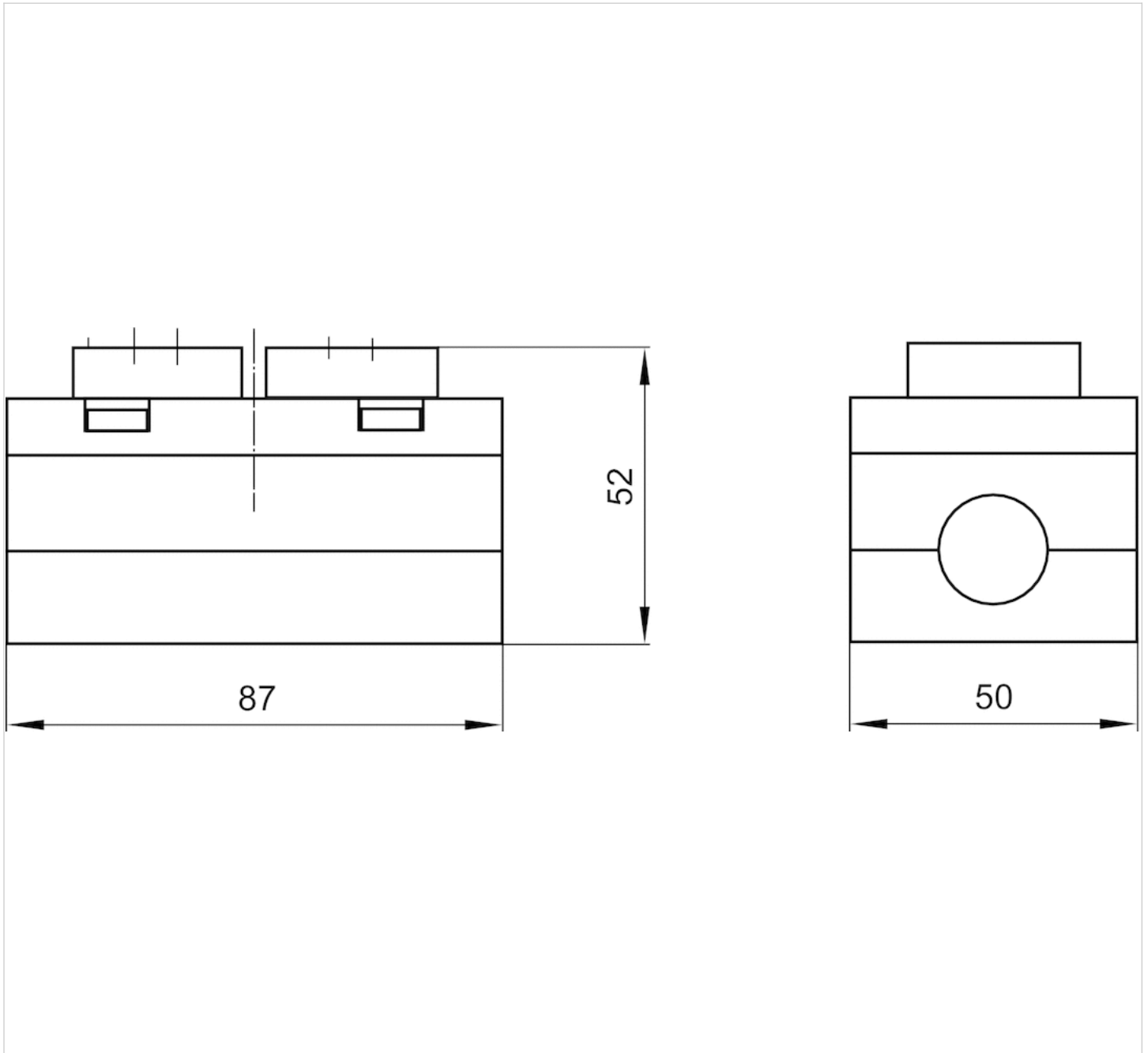
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

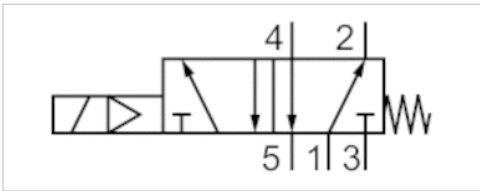
Dimensions

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- With spring return
- single solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| Working pressure min./max. | -0,95 ... 10 bar |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

Part No.

5812180080

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.

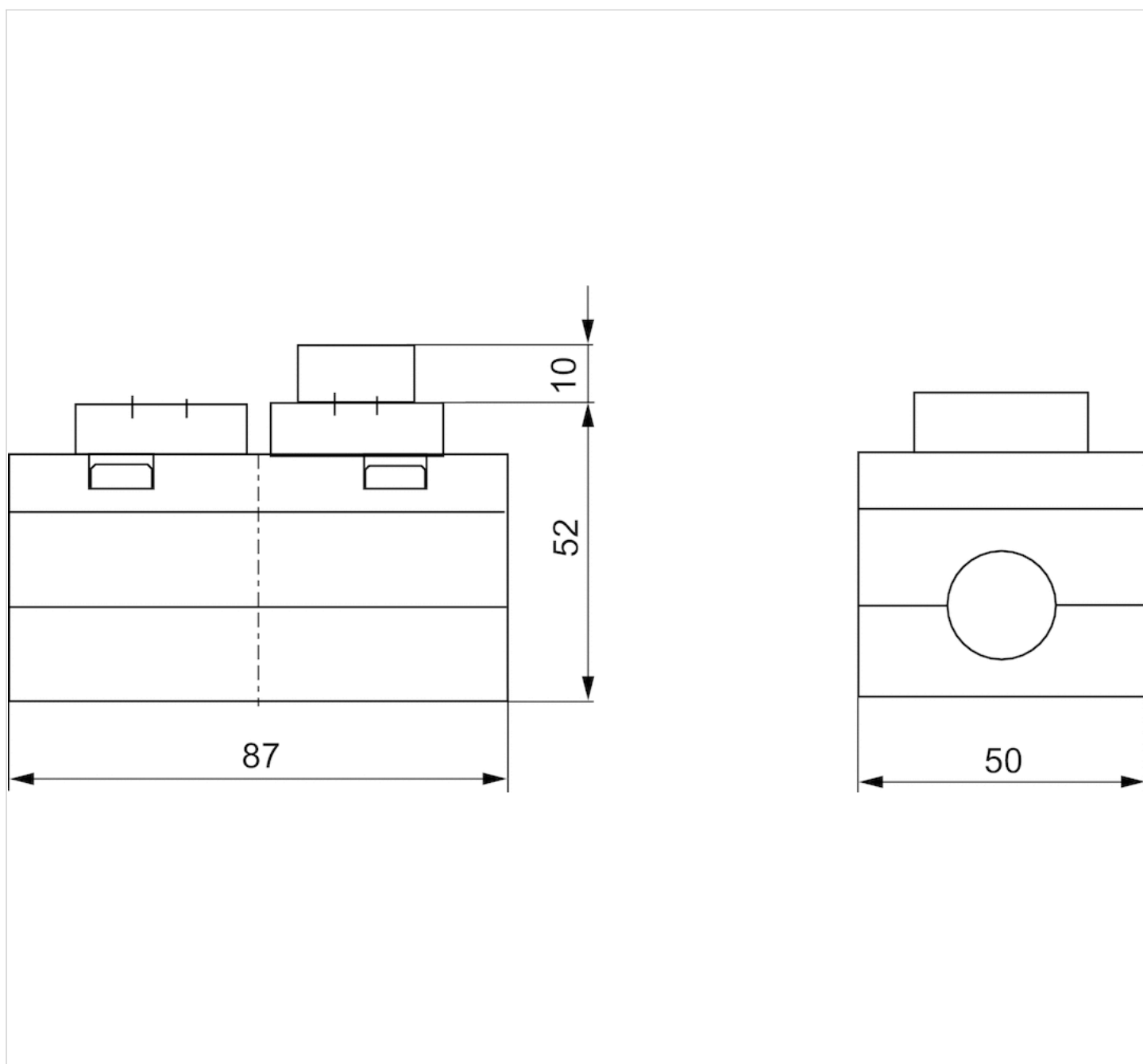
Technical information

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

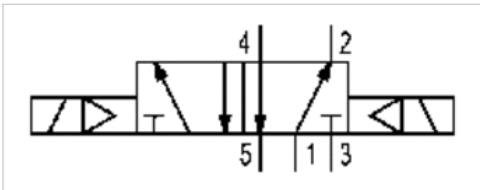
| | |
|---------|--------------------------------|
| Housing | Polyarylamide |
| Seals | Acrylonitrile butadiene rubber |

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve
- double solenoid
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| Working pressure min./max. | -0,95 ... 10 bar |
| 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

Part No.

5812280080

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 .

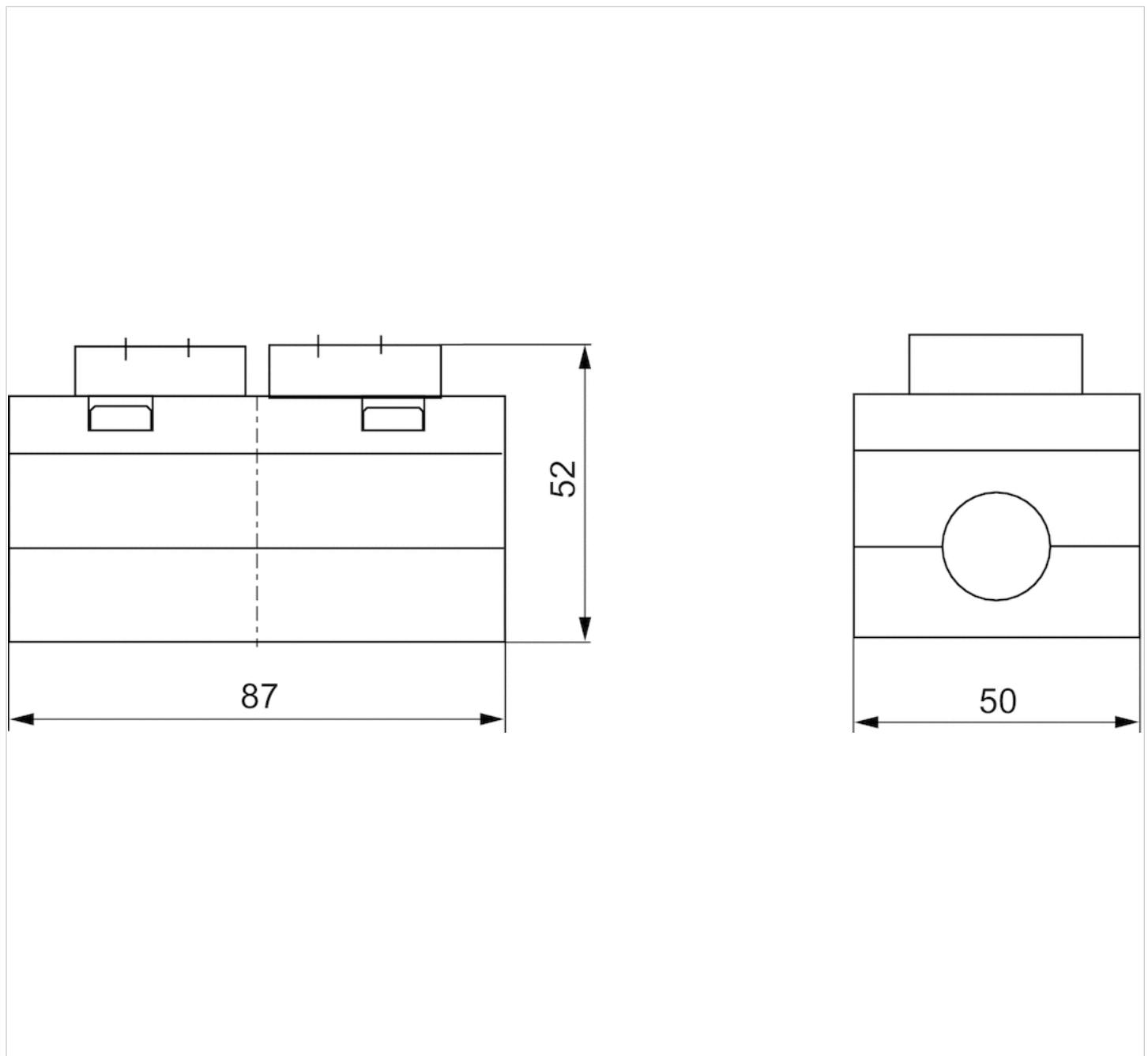
The oil content of compressed air must remain constant during the life cycle.

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

Technical information

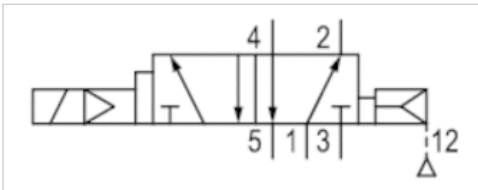
| | |
|---------|--------------------------------|
| Housing | Polyamide |
| Seals | Acrylonitrile butadiene rubber |

Dimensions



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

- ISO 5599-1
- ISO 2
- 5/2
- Basic valve for CNOMO pilot valve, with differential piston
- With air spring return
- $Q_n = 2700 \text{ l/min}$
- 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 2 |
| Working pressure min./max. | -0,95 ... 10 bar |
| Control pressure min./max. | 2,7 ... 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 | 2700 l/min |
| Flow conductance C | 10,8 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

Part No.

5812680080

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., 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).

Differential piston, signal 14 has priority

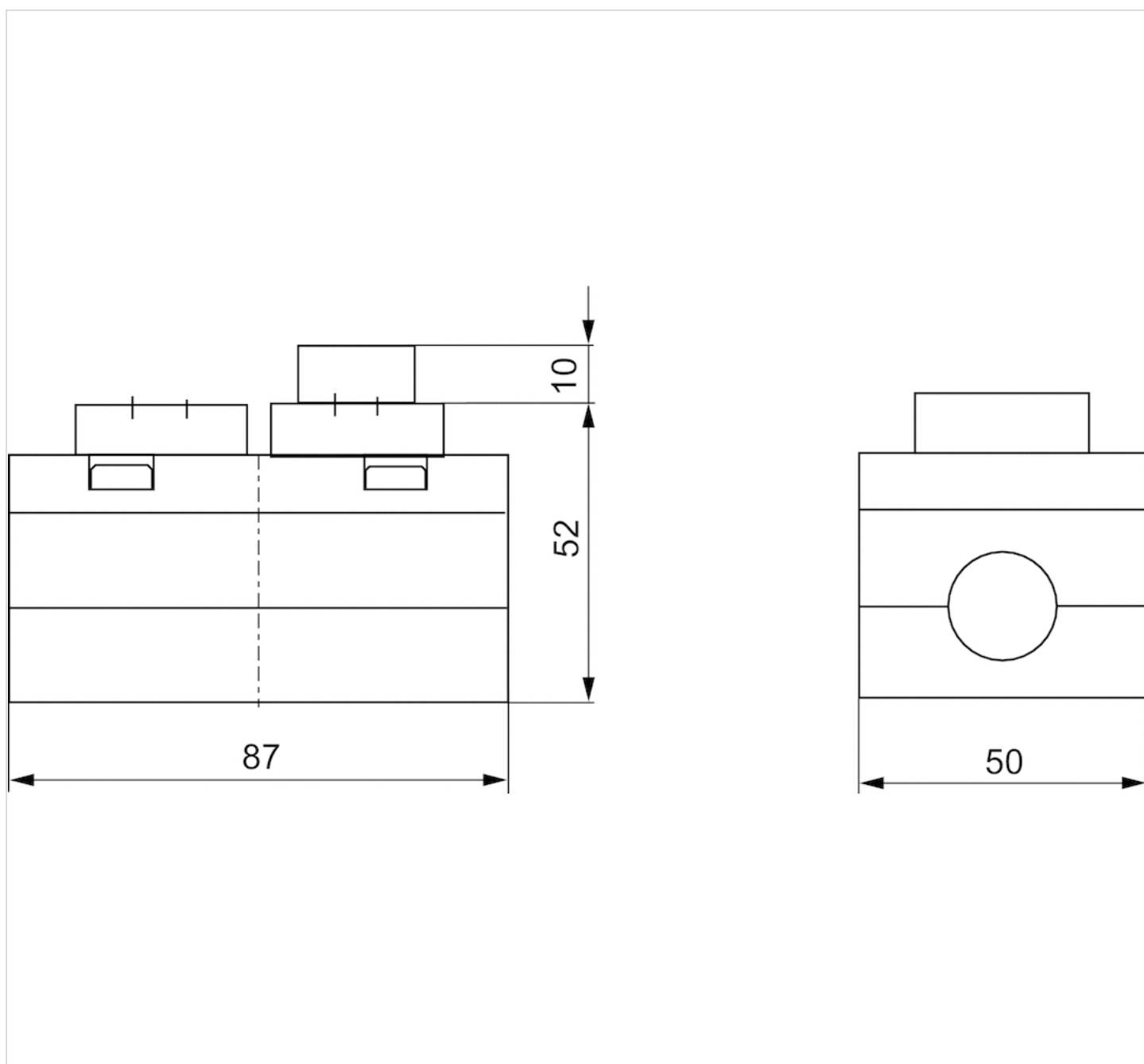
The minimum pilot pressure at port 14 is dependent on the pressure in port 1.

valves are fitted with change-over block

Technical information

| | |
|---------|--------------------------------|
| Housing | Polyamide |
| Seals | Acrylonitrile butadiene rubber |

Dimensions



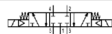

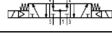
5/3-directional valve, Series 581, size 2

- ISO 5599-1
- ISO 2
- Basic valve for CNOMO pilot valve
- $Q_n = 2100$ 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 2 |
| Working pressure min./max. | -0,95 ... 10 bar |
| 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 | 2100 l/min |
| Flow conductance C | 8,9 l/(s*bar) |
| Protection class with connection | IP65 |
| Duty cycle | 100 % |
| Mounting screw | with hexagon socket |
| Mounting screw tightening torque | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | |
|------------|---|
| 5812480080 |  |
| 5812580080 |  |
| 5812780080 |  |

Nominal flow Q_n 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.

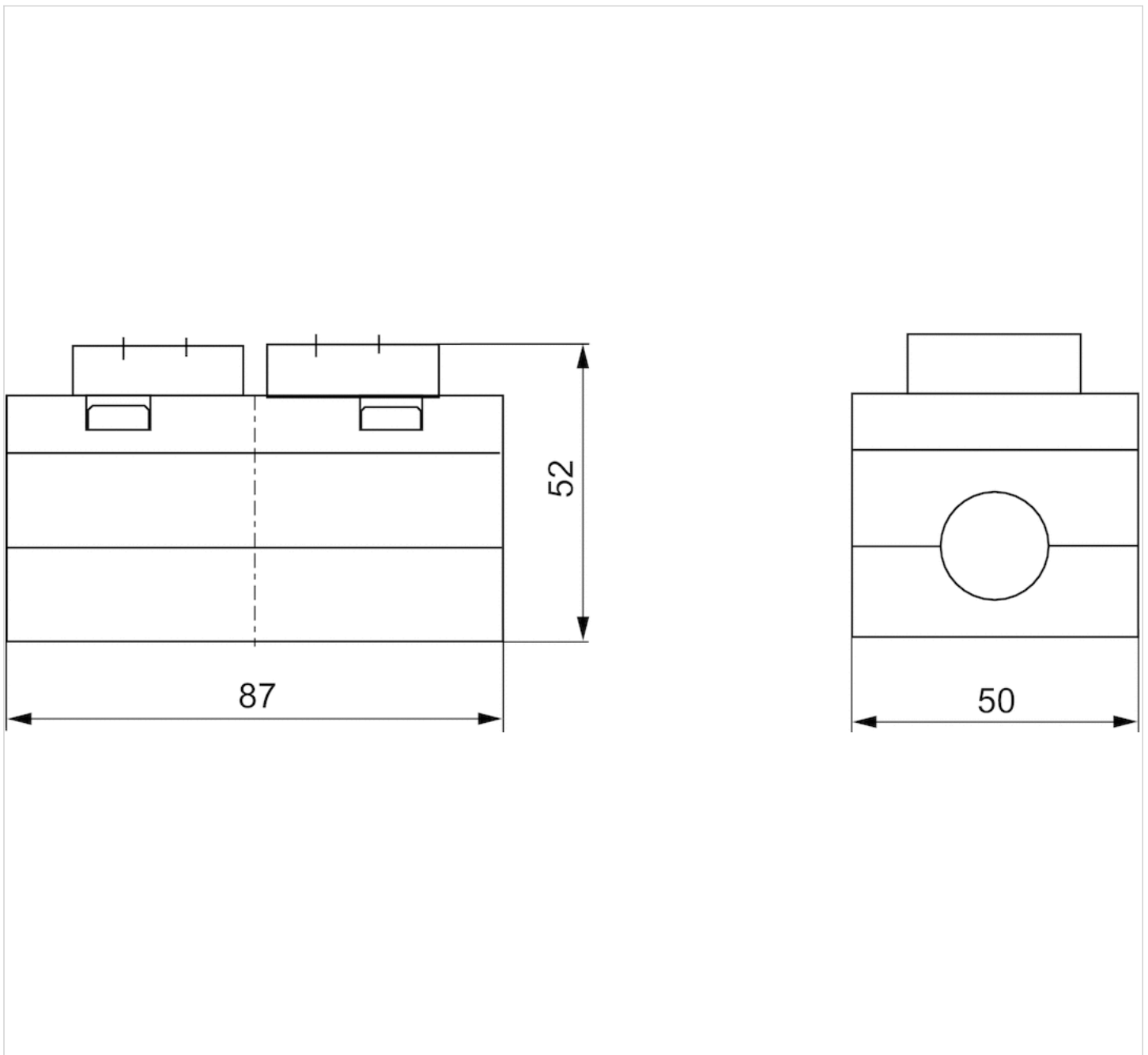
Technical information

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 | Polyamide |
| Seals | Acrylonitrile butadiene rubber |

Dimensions





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

- Single air pilot
- $Q_n = 2700$ 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 2 |
| Nominal flow Q_n | 2700 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 | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5812130000 |  | 11,8 l/(s*bar) | - | |
| 5812131000 |  | 11,8 l/(s*bar) | 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.

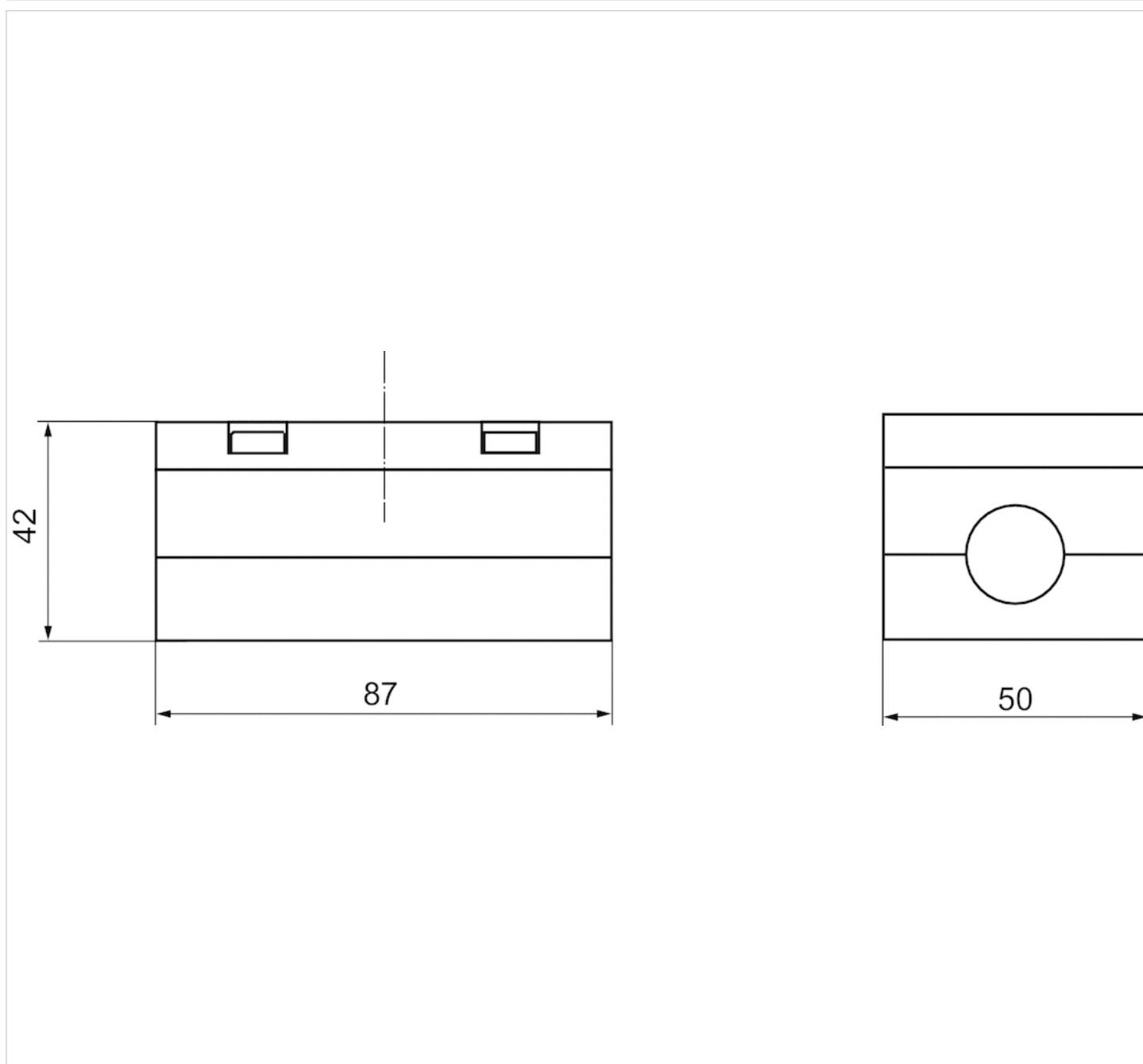
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions





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

- double air pilot
- $Q_n = 2700$ 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 2 |
| Nominal flow Q_n | 2700 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 | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5812230000 |  | 11,8 l/(s*bar) | - | |
| 5812231000 |  | 11,8 l/(s*bar) | 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.

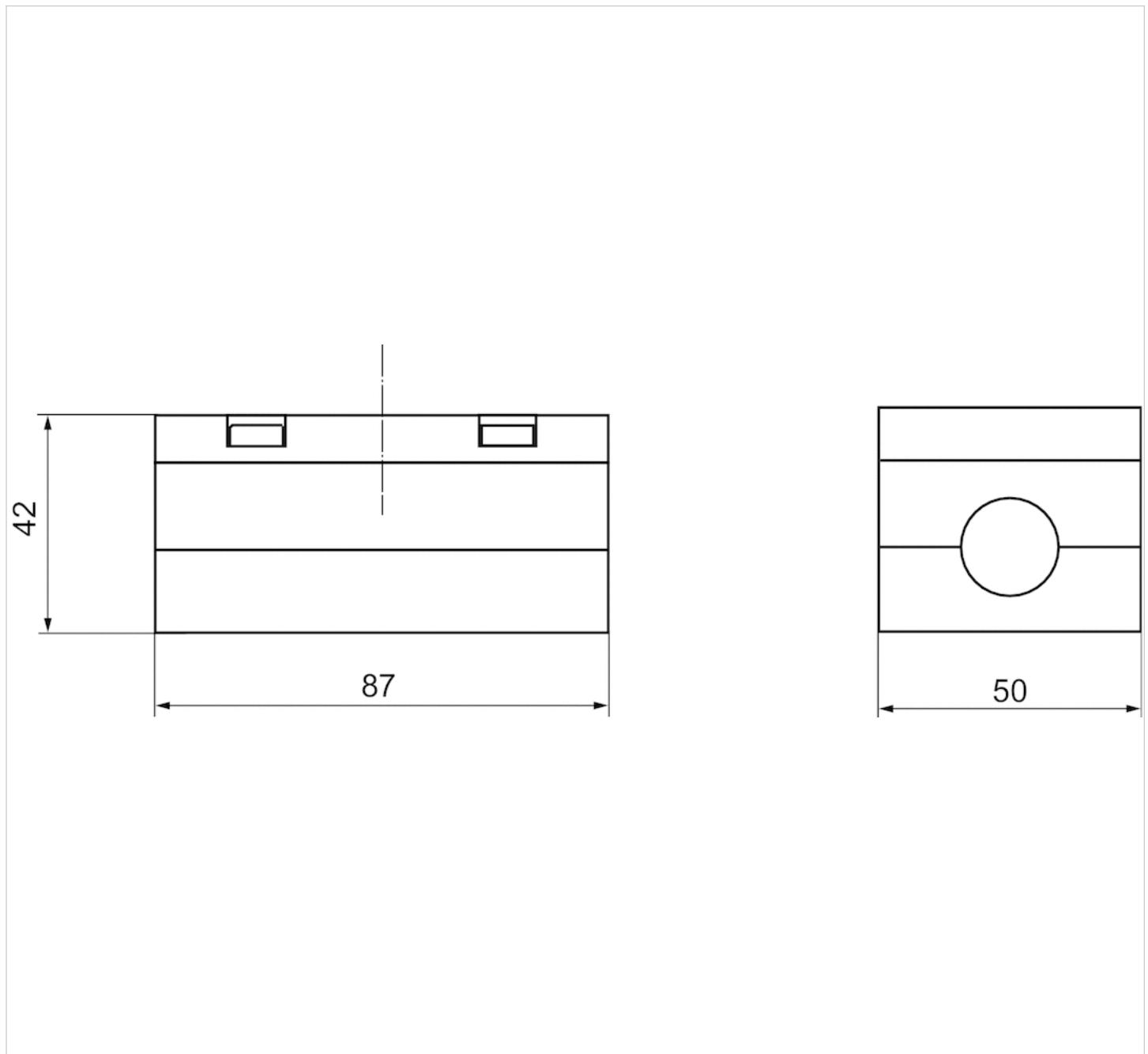
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions





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

- Qn = 2700 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 2 |
| Nominal flow Qn | 2700 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 | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5812330000 |  | 11,8 l/(s*bar) | - | |
| 5812331000 |  | 11,8 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.

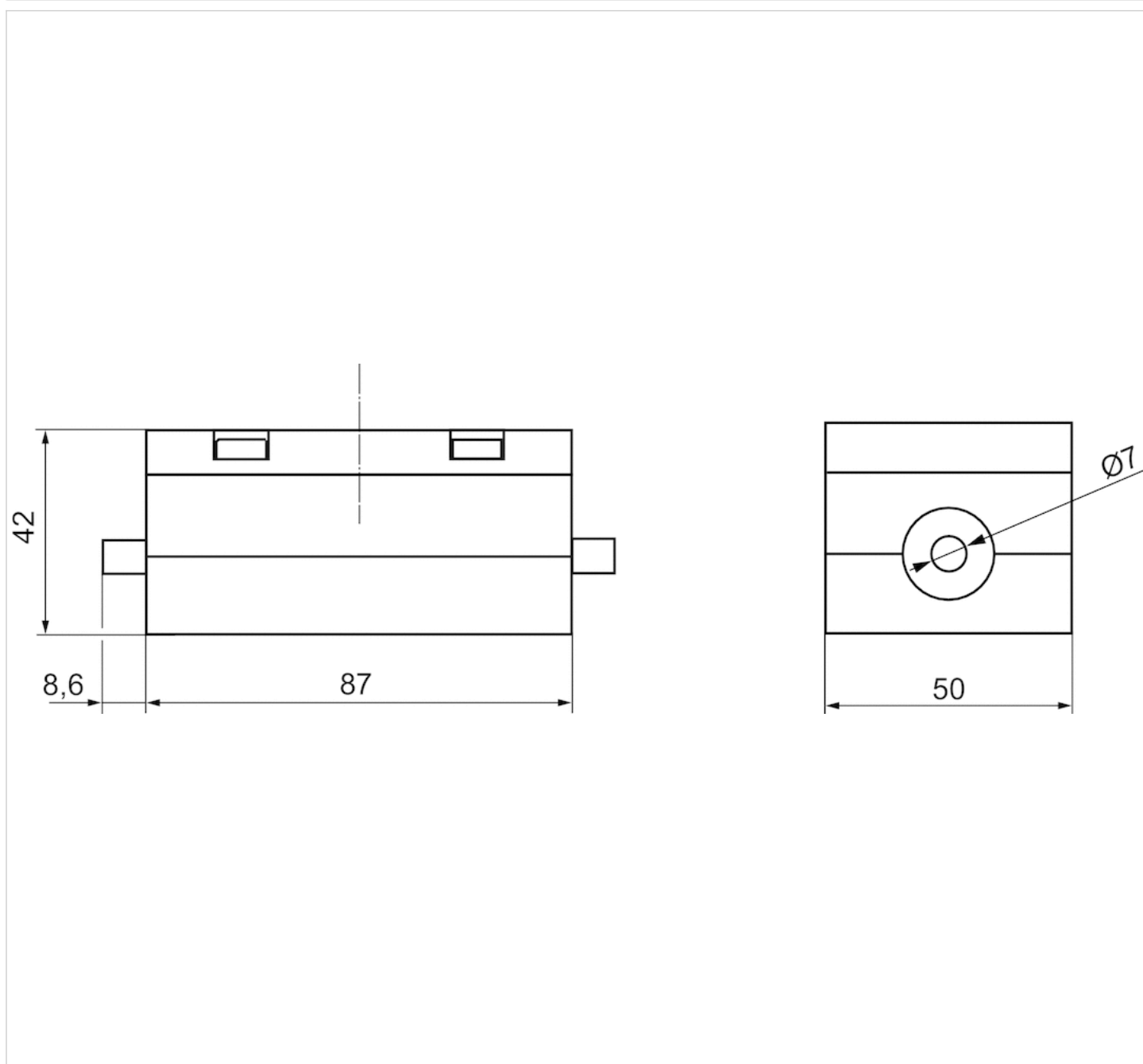
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



With manual override



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

- With differential piston
- $Q_n = 2700$ 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 2 |
| Nominal flow Q_n | 2700 l/min |
| Compressed air connection | Base plate ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Control pressure min./max. | 2,7 ... 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 | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | Flow conductance | Throttle | |
|------------|---|------------------|---------------|--|
| | | C-value | | |
| 5812630000 |  | 11,8 l/(s*bar) | - | |
| 5812631000 |  | 11,8 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.

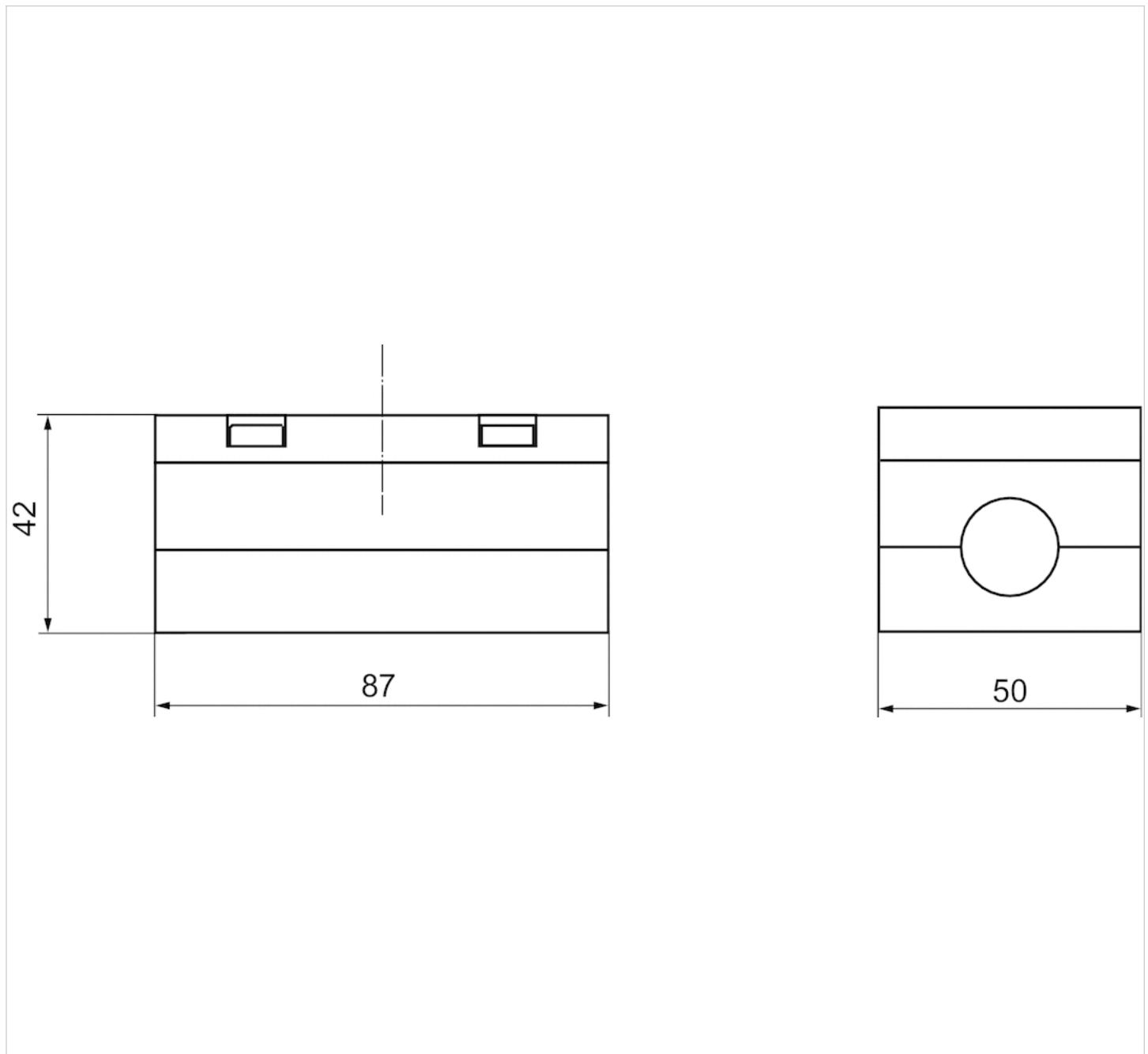
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions









5/3-directional valve, Series 581, size 2

- Qn = 2100 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 2 |
| Nominal flow Qn | 2100 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 | 3,5 Nm |
| Weight | 0,42 kg |

Technical data

| Part No. | | | Flow conductance | Throttle | |
|------------|---|--------------------|------------------|---------------|--|
| | | | C-value | | |
| 5812430000 |  | closed center | 9,6 l/(s*bar) | - | |
| 5812431000 |  | closed center | 9,6 l/(s*bar) | with throttle | |
| 5812530000 |  | exhausted center | 9,6 l/(s*bar) | - | |
| 5812531000 |  | exhausted center | 9,6 l/(s*bar) | with throttle | |
| 5812730000 |  | pressurized center | 9,6 l/(s*bar) | - | |
| 5812731000 |  | pressurized center | 9,6 l/(s*bar) | with throttle | |

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

Technical information

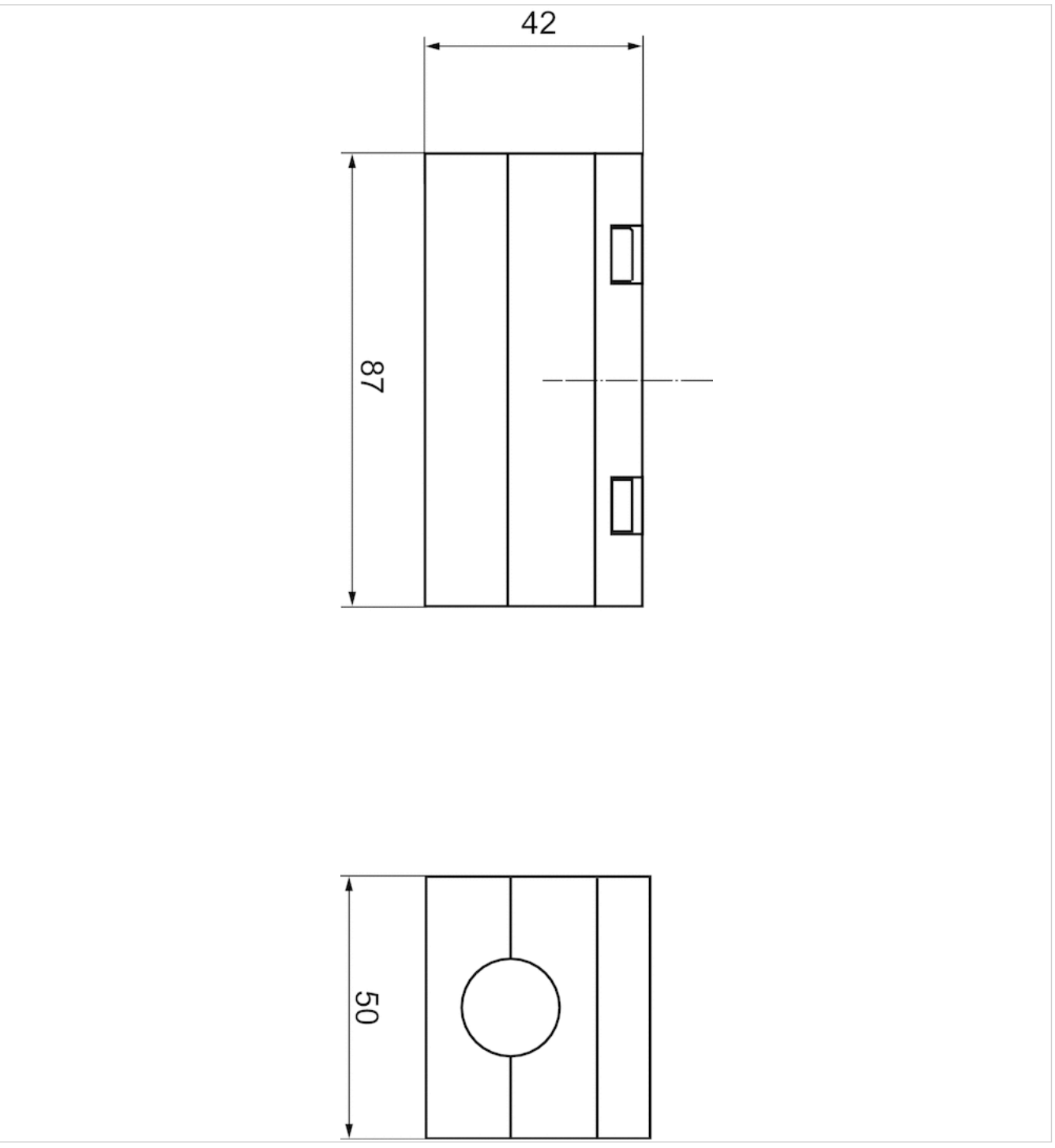
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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 2

5812180100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2700 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
10.8 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

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
3.5 Nm

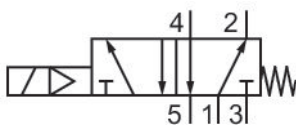
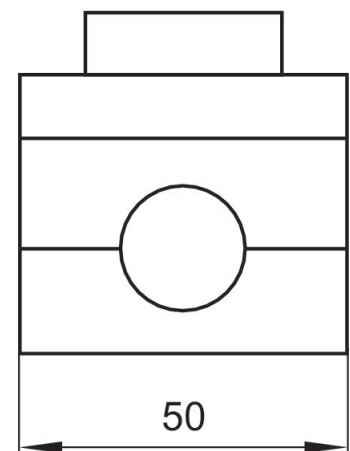
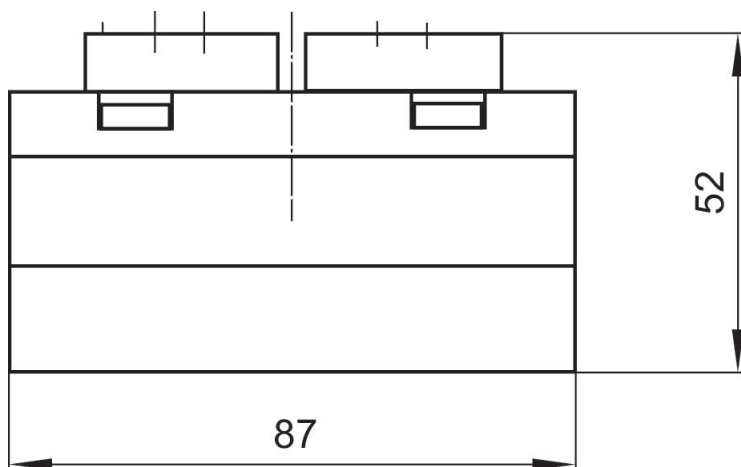
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812180100

Dimensions



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

5812280100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700$ l/min



Technical data

Industry
Industrial

Nominal flow Q_n
2700 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

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
10.8 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

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

Protection class with connection
IP65

Duty cycle
100 %

mounting screws
with hexagon socket

Mounting screw tightening torque
3.5 Nm

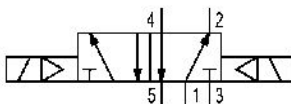
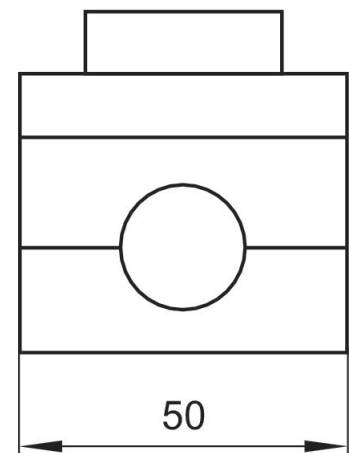
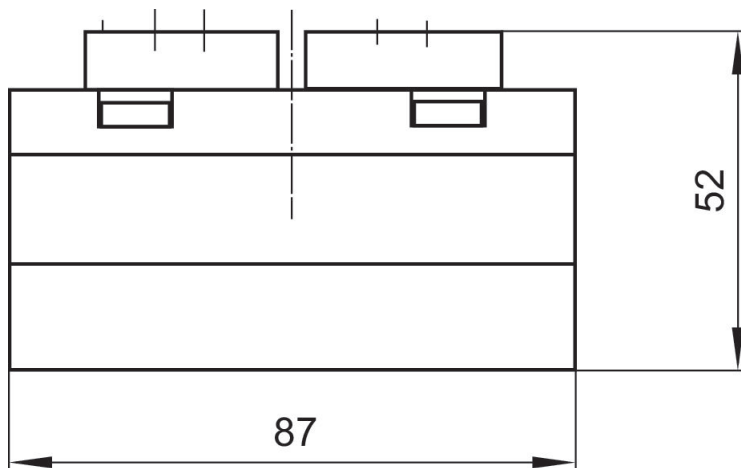
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812280100

Dimensions



5/3-directional valve, Series 581, size 2

5812480100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2100 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

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
8.9 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

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
3.5 Nm

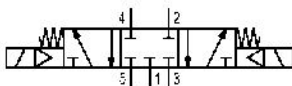
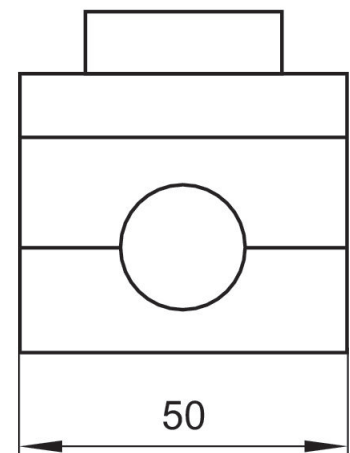
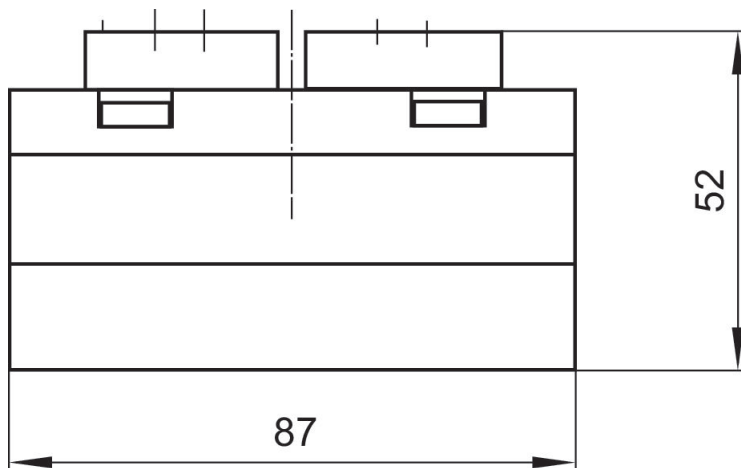
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812480100

Dimensions



5/3-directional valve, Series 581, size 2

5812580100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2100 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

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
8.9 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

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
3.5 Nm

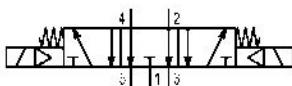
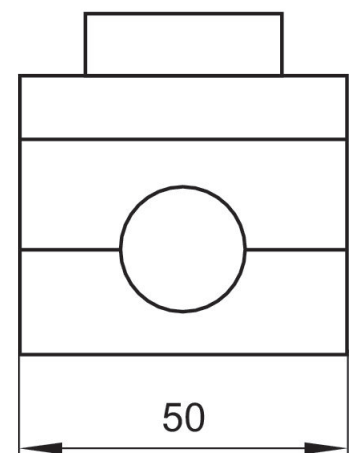
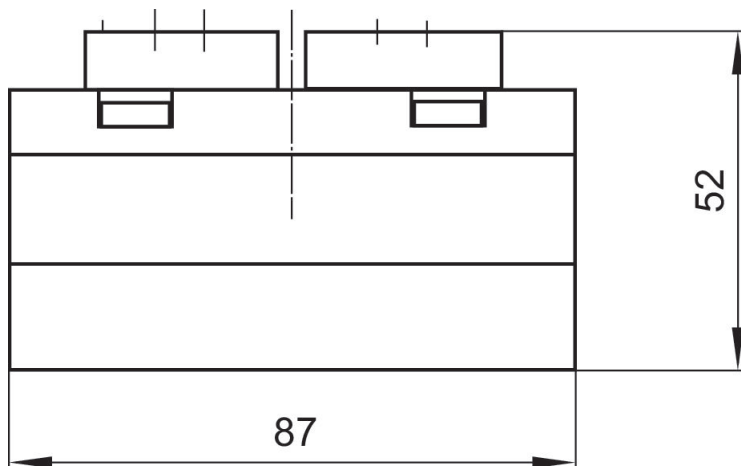
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812580100

Dimensions



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

5812680100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2700 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

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
10.8 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

Control pressure min.
2.7 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
3.5 Nm

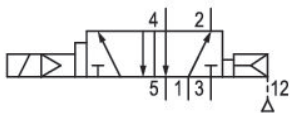
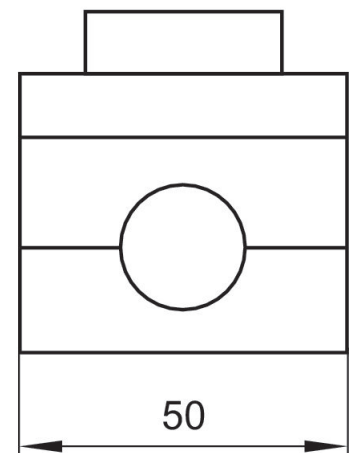
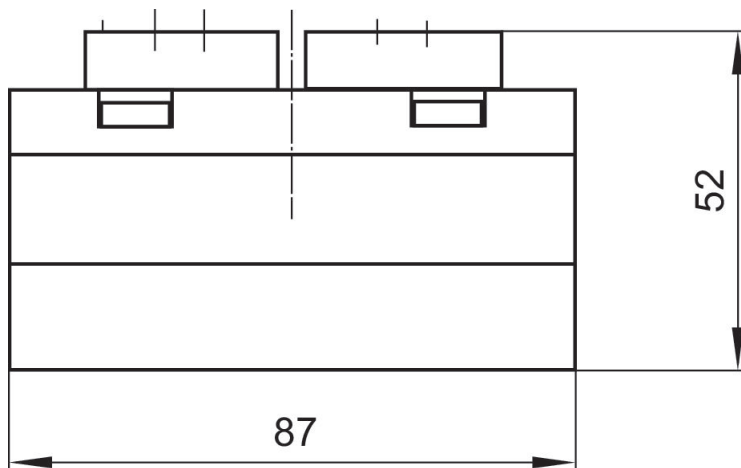
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812680100

Dimensions



5/3-directional valve, Series 581, size 2

5812780100

ISO 5599-1, size 2, series 581

■ $Q_n = 2100 \dots 2700 \text{ l/min}$



Technical data

Industry
Industrial

Nominal flow Q_n
2100 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

Compressed air connection input
Base plate ISO 5599-1

Compressed air connection, exhaust
Base plate ISO 5599-1

Flow conductance C
8.9 l/(s*bar)

basic valve with electrical connector
Basic valve without pilot valve

Frame size
ISO 2

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
3.5 Nm

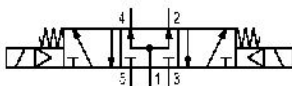
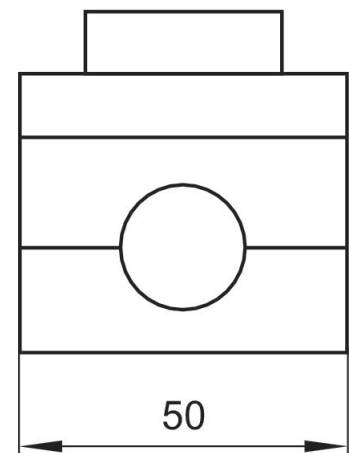
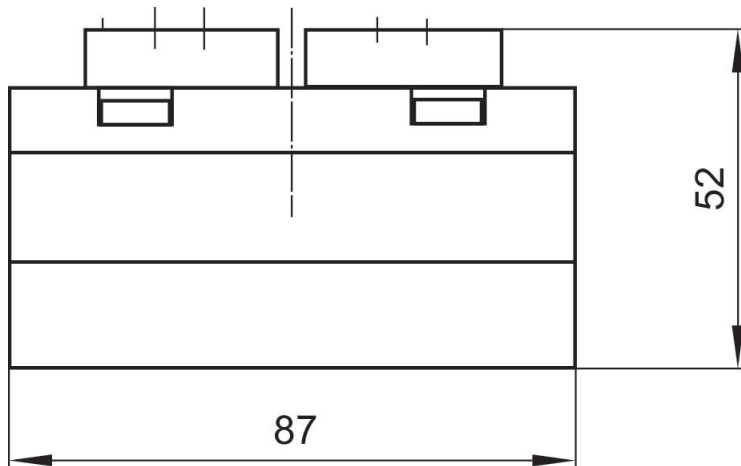
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812780100

Dimensions



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

5812130100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400]]$ l/min]



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2700 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 2

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
11.8 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

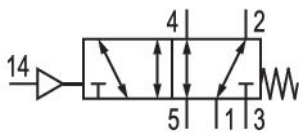
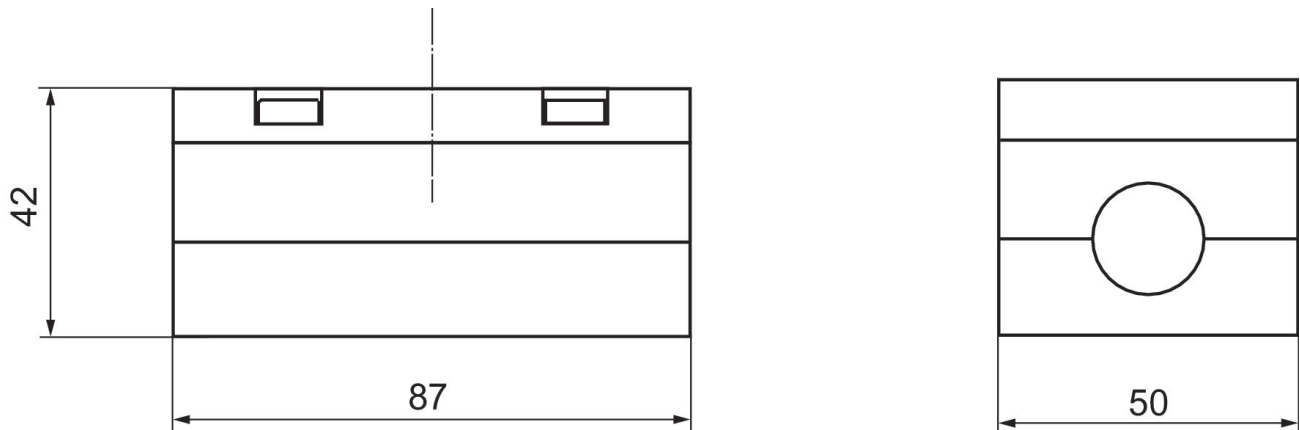
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812130100

Dimensions



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

5812330100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400] \text{ l/min}]$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2700 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 2

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
11.8 l/(s*bar)

Dimensions

Mounting screw
with hexagon socket

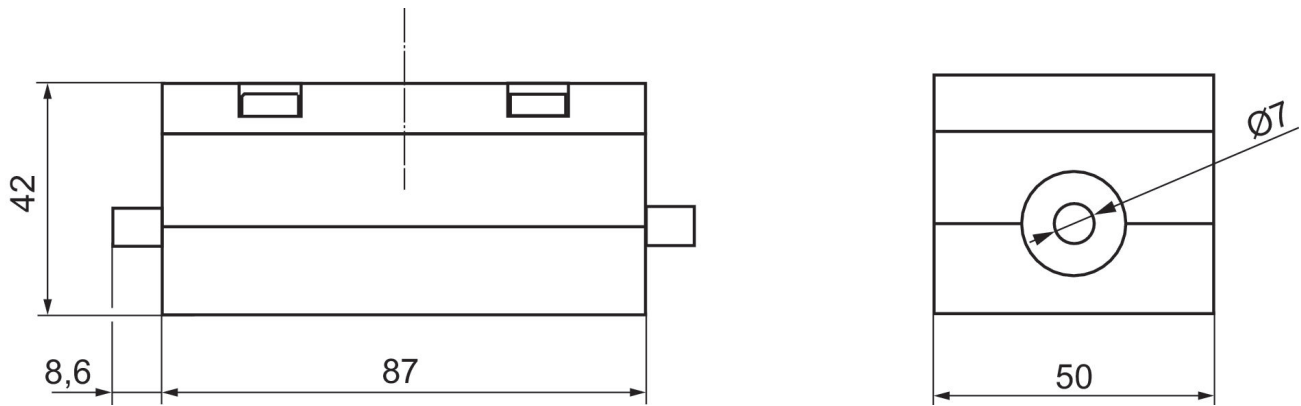
Mounting screw tightening torque
3.5 Nm

Weight
0.42 kg

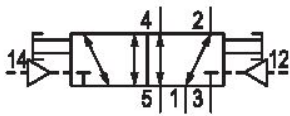
Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812330100



With manual override



5/3-directional valve, Series 581, size 2

5812430100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400]]$ l/min]



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2100 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 2

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
9.6 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

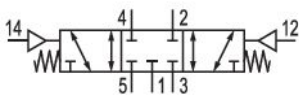
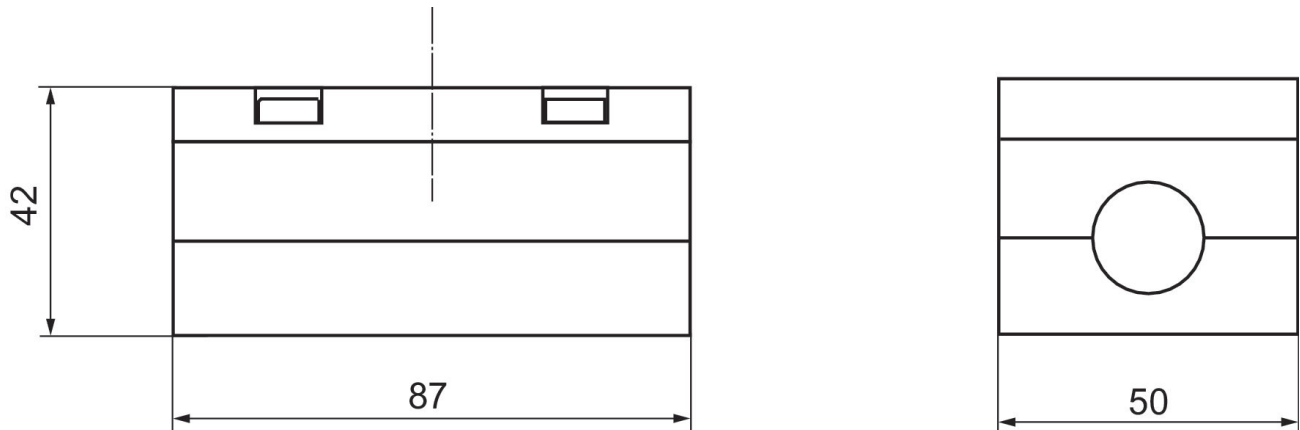
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812430100

Dimensions



5/3-directional valve, Series 581, size 2

5812530100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400]] \text{ l/min}$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2100 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 2

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
9.6 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

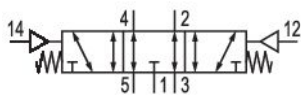
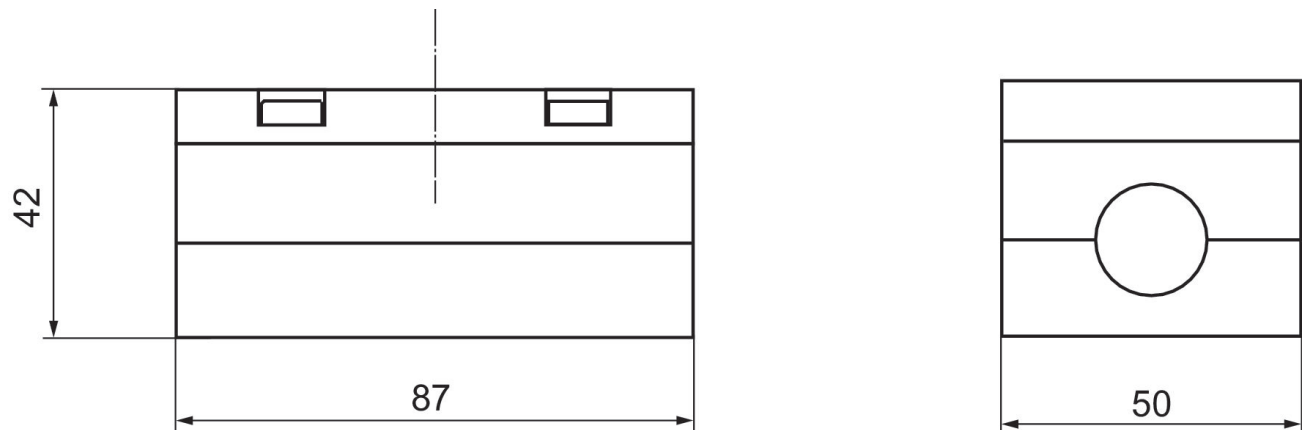
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812530100

Dimensions



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

5812630100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400]] \text{ l/min}$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2700 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 2

Can be assembled into blocks
Can be assembled into blocks

Blocking principle
Single base plate principle

Control pressure min.
2.7 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
11.8 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

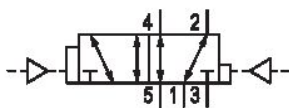
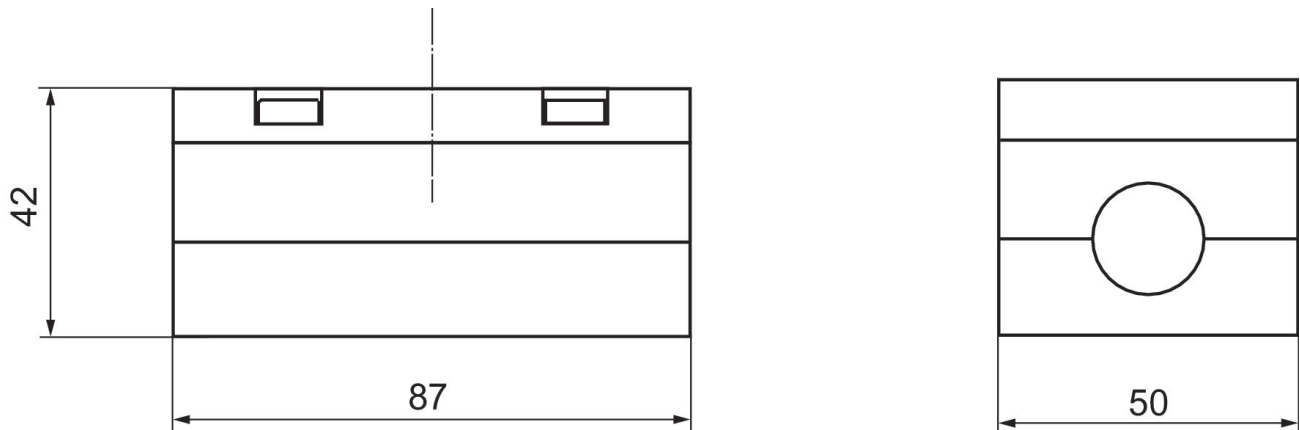
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812630100

Dimensions



5/3-directional valve, Series 581, size 2

5812730100

ISO 5599-1, size 2, series 581

■ $Q_n = [[1400]] \text{ l/min}$



Technical data

Industry
Industrial

Activation
Pneumatically

Nominal flow Q_n
2100 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 2

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
9.6 l/(s*bar)

Mounting screw
with hexagon socket

Mounting screw tightening torque
3.5 Nm

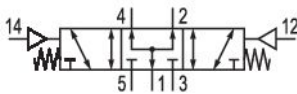
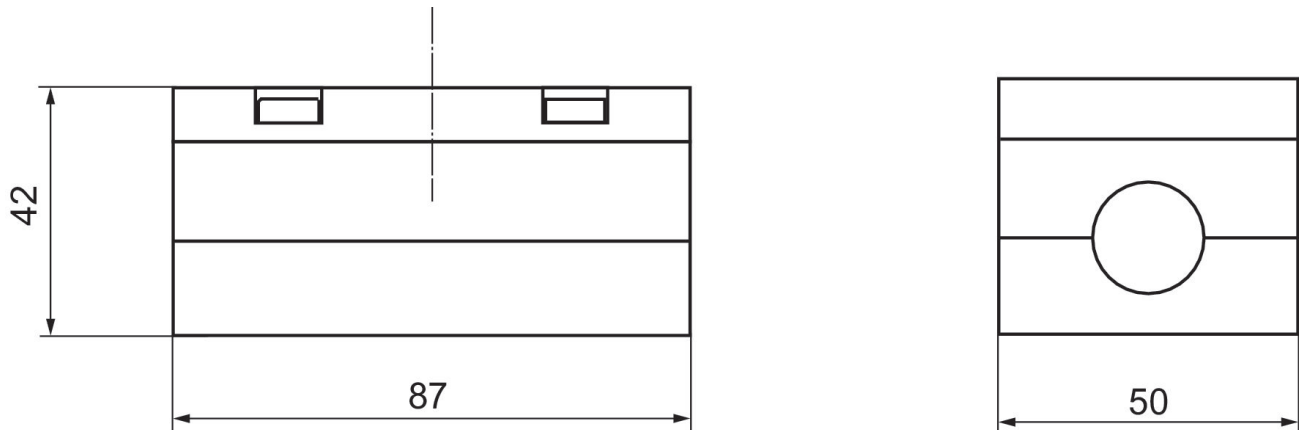
Weight
0.42 kg

Housing material
Aluminum

Seal material
Acrylonitrile butadiene rubber

Part No.
5812730100

Dimensions



Single subbase, thread connections on the side

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 3/8
- Reversed pressure supply permissible



| | |
|-----------------------------------|--------------------------------|
| Standards | 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 |
| Number of valve positions max. | 1 |
| Grid dimension | 57 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 | 0,28 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 1825503146 | G 3/8 | G 3/8 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 1825503146 | G 3/8 | G 1/8 |

| Part No. | Compressed air connection Pilot control exhaust [R] |
|------------|---|
| 1825503146 | 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

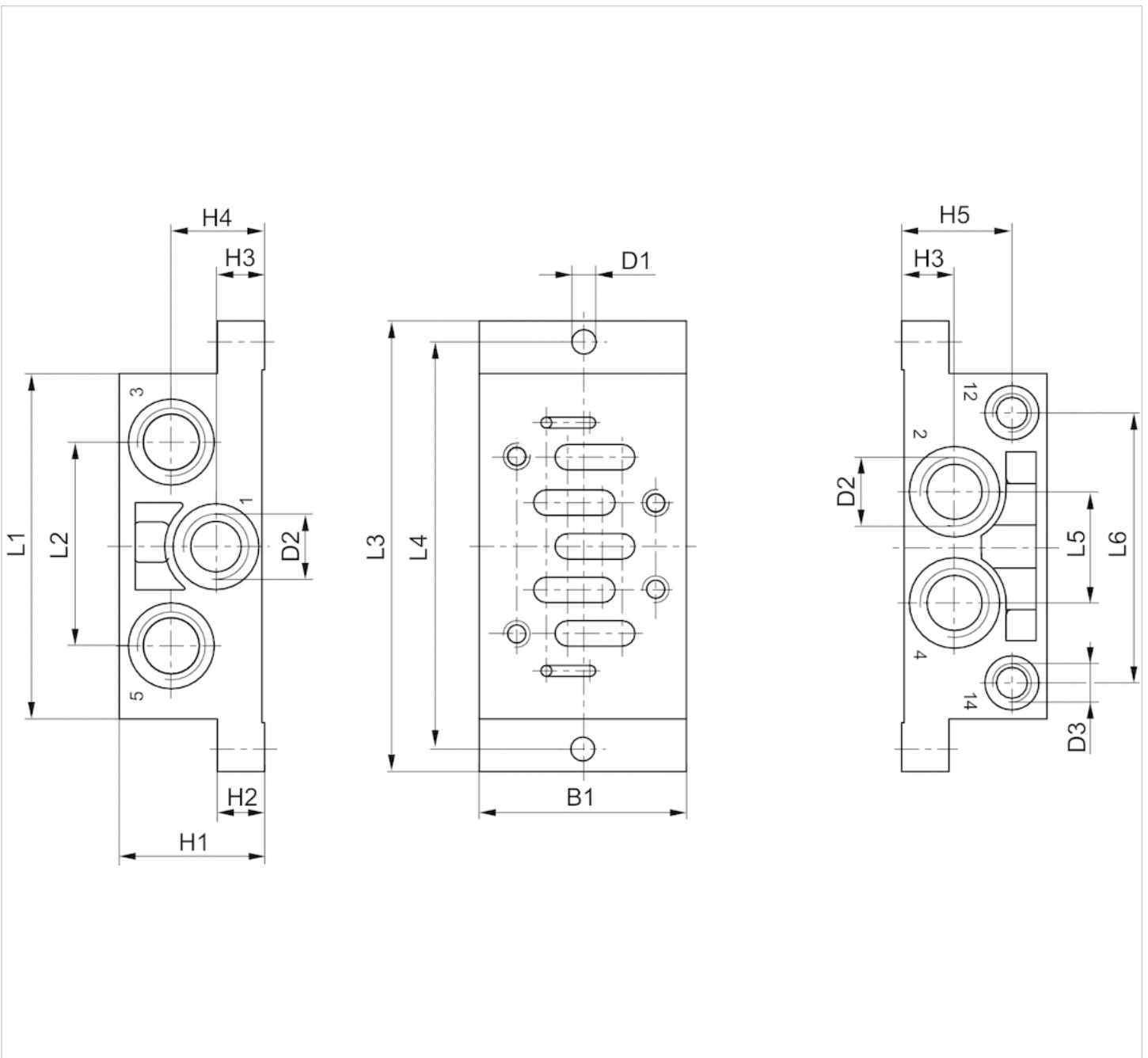
Material

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 |
|------------|------------|----|----|----|----|----|----|-----|-------|-------|----|----|-----|-----|----|----|
| 1825503146 | ISO 2 | 57 | 40 | 13 | 14 | 26 | 30 | 6.6 | G 3/8 | G 1/8 | 95 | 56 | 124 | 112 | 30 | 74 |

*) Ports

Single subbase, thread connections on the bottom

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 3/8
- Reversed pressure supply permissible



| | |
|-----------------------------------|--------------------------------|
| Standards | 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 |
| 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 (12) | Down |
| Direction of pneumatic port (14) | Down |
| Exhaust (3,5) | With directional exhaust (3/5) |
| Exhaust type | Ports separated |
| Weight | 0,325 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 1825503202 | G 3/8 | G 3/8 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 1825503202 | G 3/8 | G 1/8 |

| Part No. | Compressed air connection Pilot control exhaust [R] |
|------------|---|
| 1825503202 | 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

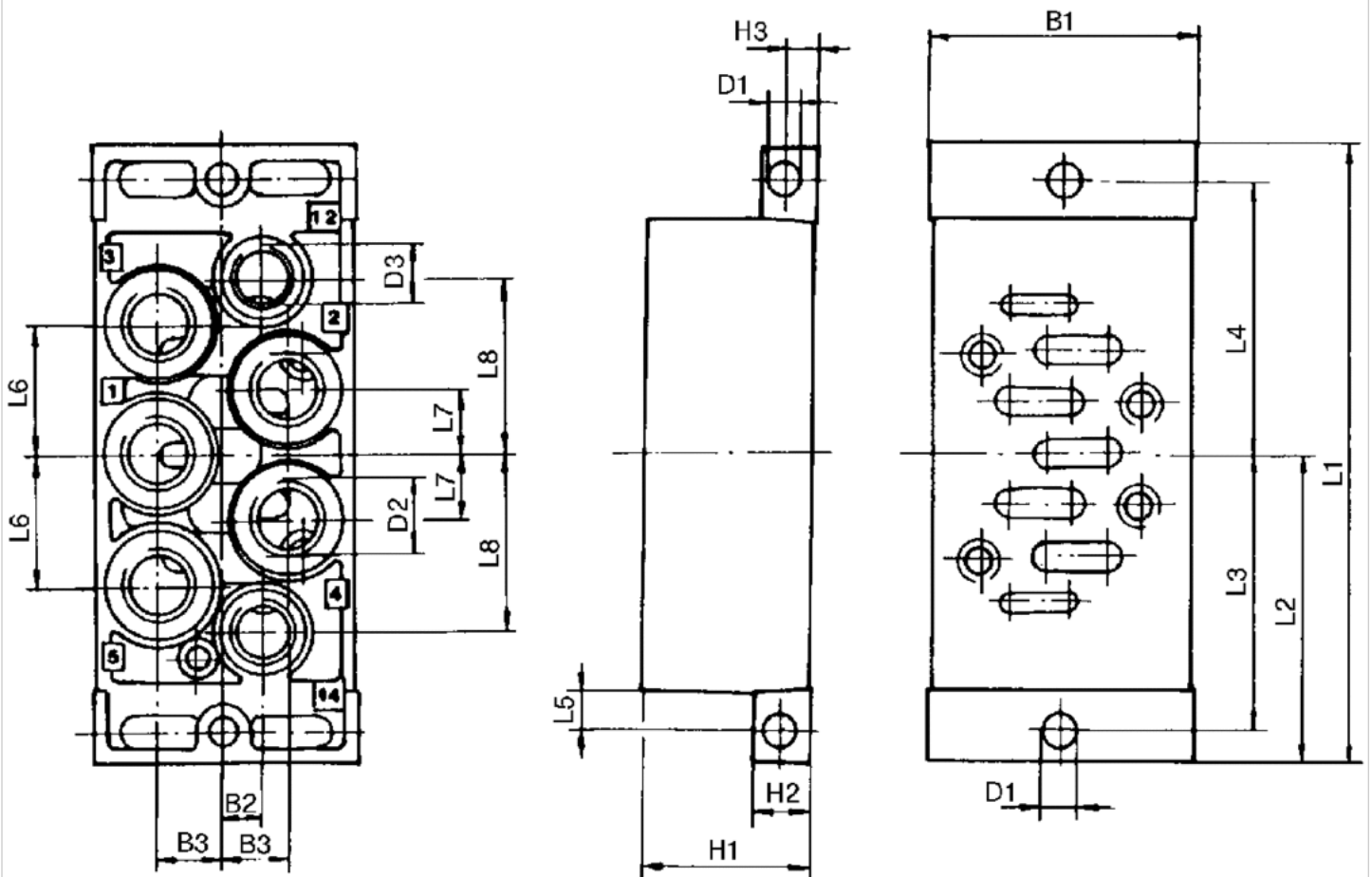
Material

Base plate

Die-cast aluminum

Dimensions

Dimensions



Dimensions

| Part No. | Frame size | B1 | B2 | B3 | D1 | D2 *) | D3 *) | H1 | H2 | H3 | L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 |
|------------|------------|----|----|------|-----|-------|-------|----|----|-----|-----|----|----|----|-----|----|----|------|
| 1825503202 | ISO 2 | 56 | 8 | 13,5 | 6,6 | G 3/8 | G 1/8 | 35 | 13 | 6,5 | 124 | 62 | 56 | 56 | 8,5 | 28 | 14 | 36,5 |

*) Ports

Single subbase, ports on side

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 1/4 G 3/8



| | |
|-----------------------------------|--------------------------------|
| 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 | See table below |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5802710000 | G 1/4 | G 1/4 |
| 5802740000 | G 3/8 | G 3/8 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] | Weight |
|------------|---|---|---------|
| 5802710000 | G 1/4 | G 1/8 | 0,19 kg |
| 5802740000 | G 3/8 | G 1/8 | 0,32 kg |

Technical information

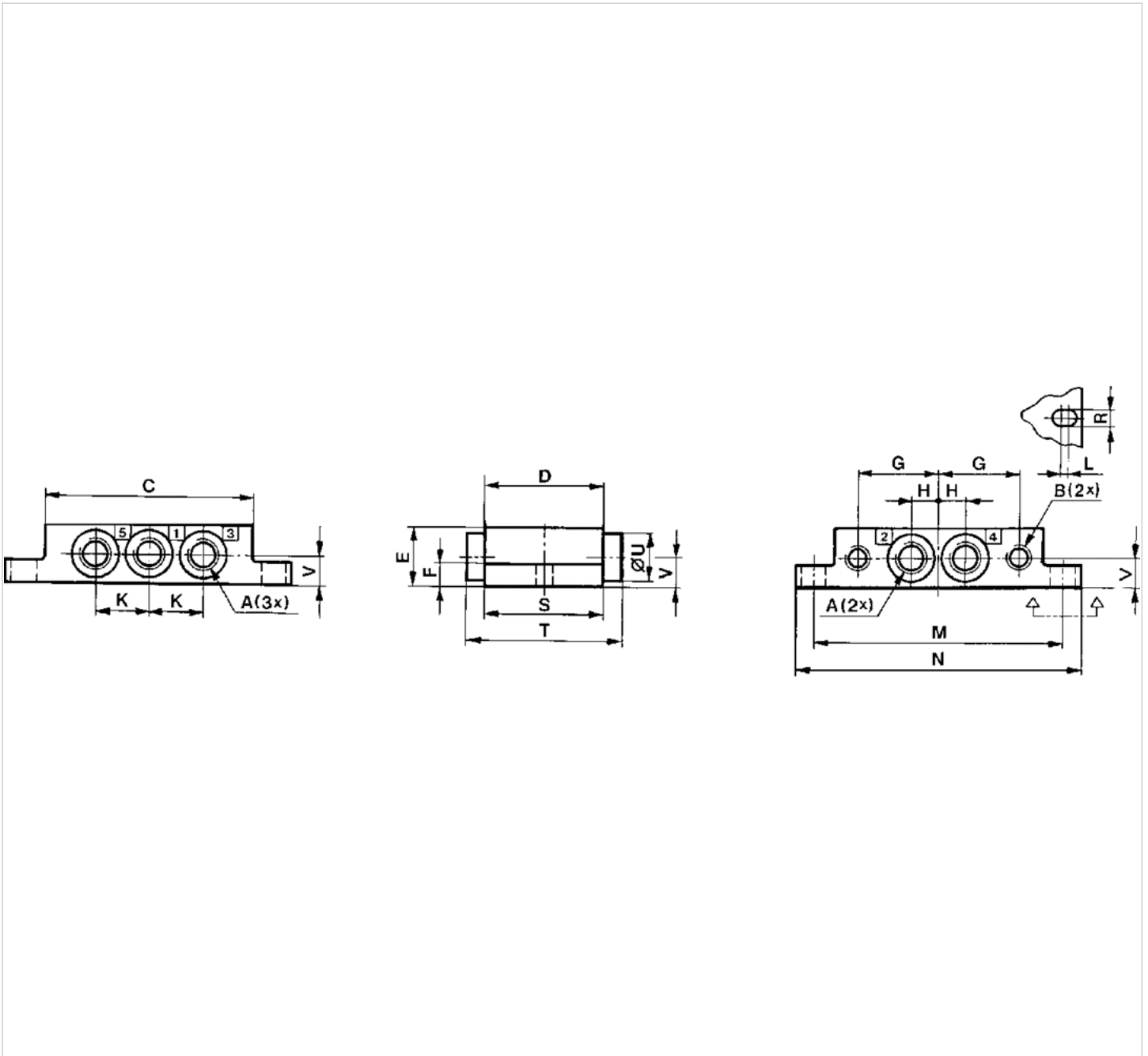
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| Material | |
|------------|----------------------------------|
| Base plate | 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 |
|------------|------------|-------|-------|----|----|----|----|----|----|----|---|-----|-----|-----|----|----|----|------|
| 5802710000 | ISO 2 | G 1/4 | G 1/8 | 86 | 52 | 23 | 8 | 34 | 12 | 24 | 2 | 102 | 115 | 6.4 | 52 | - | - | 11.5 |
| 5802740000 | ISO 2 | G 3/8 | G 1/8 | 86 | 50 | 30 | 13 | 39 | 15 | 30 | 2 | 111 | 124 | 6.4 | 56 | 80 | 27 | 16 |

*) Ports

Single subbase, ports on bottom

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



| | |
|-----------------------------------|---------------------|
| 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 |
| 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 | 0,19 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5802700000 | G 1/4 | G 1/4 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 5802700000 | G 1/4 | G 1/8 |

Technical information

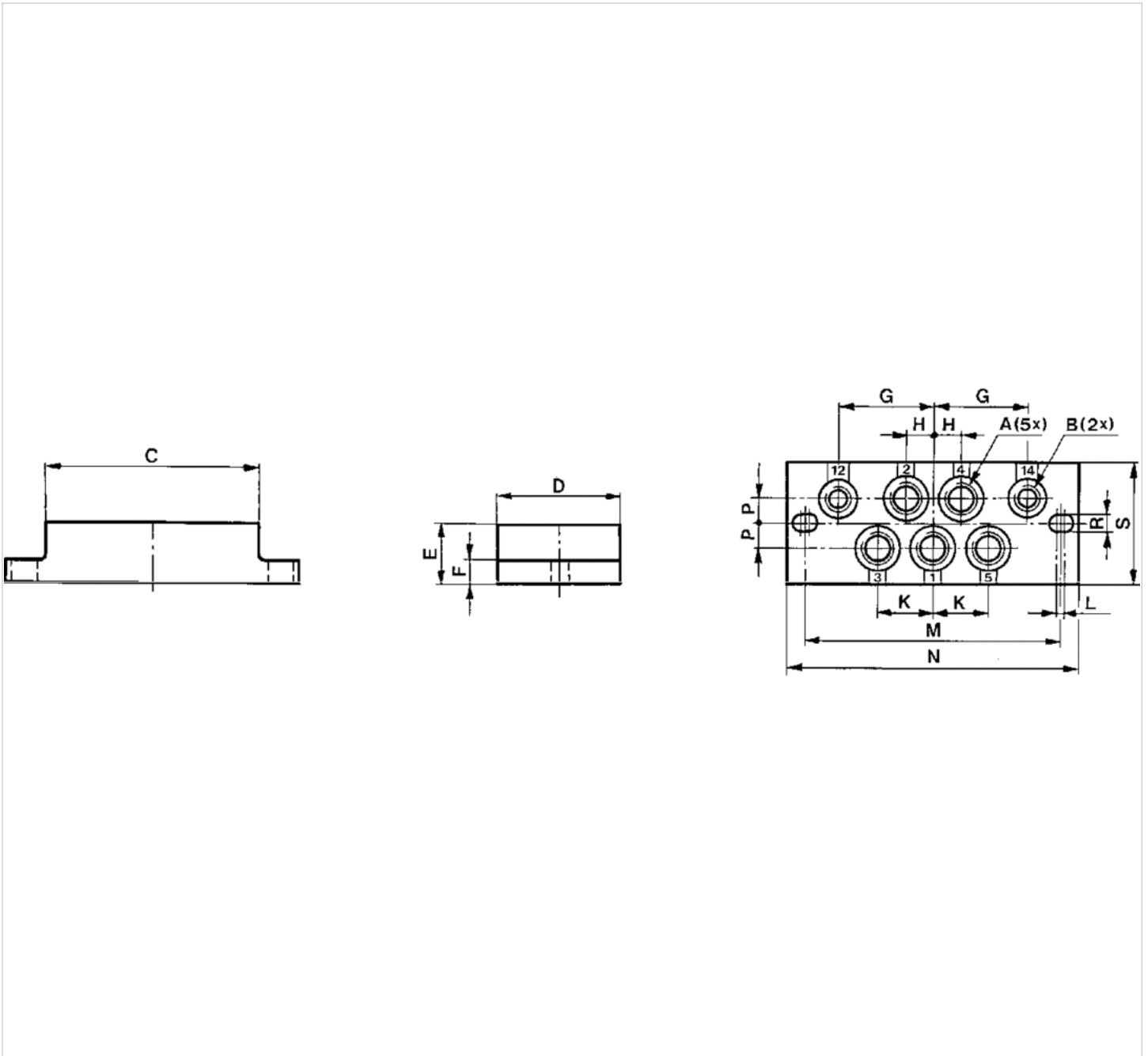
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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 |
|------------|------------|------|------|----|----|----|---|----|----|----|---|-----|-----|----|-----|----|
| 5802700000 | ISO 2 | G1/4 | G1/8 | 86 | 52 | 22 | 8 | 34 | 12 | 24 | 2 | 102 | 115 | 10 | 6.4 | 52 |

*) Ports

Subbase, for direct mounting of ISO valves on cylinders

- standard ISO 5599-1
- Frame size ISO 2
- Compressed air connection output G 3/8



| | |
|-------------------------------|----------------|
| 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 |
| Weight | 0,58 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5802690000 | G 3/8 | G 3/8 |

| Part No. | Compressed air connection Exhaust [3 / 5] | Compressed air connection Pilot connection [12] |
|------------|---|---|
| 5802690000 | G 3/8 | G 1/8 |

Scope of delivery incl. mounting screws

Ø 63 ... 125 mm

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.

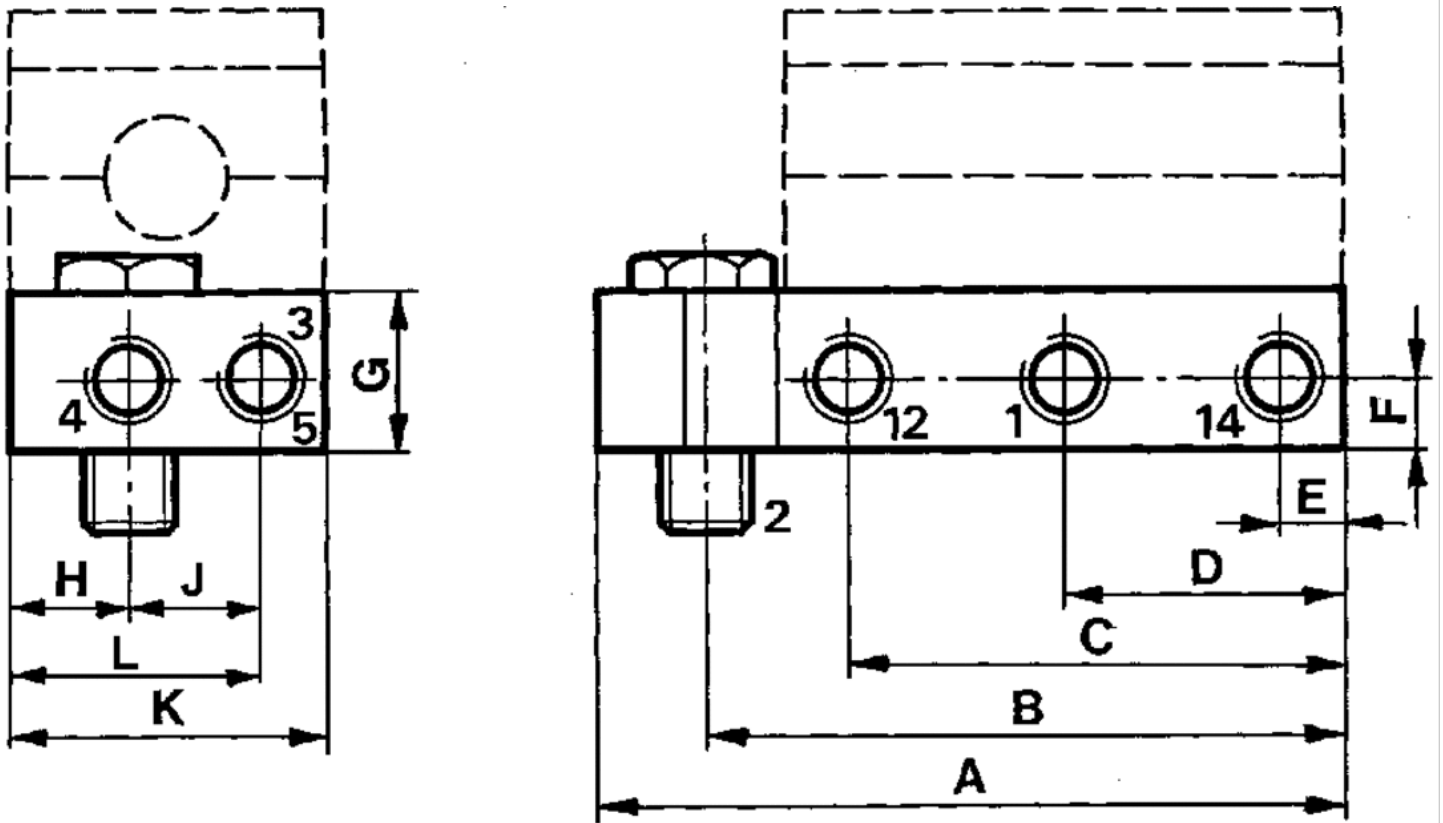
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| Material | |
|------------|-----------------------------------|
| Base plate | Die-cast aluminum, black anodized |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | Frame size | 1, 4, 3, (5) | 2* | 12, 14 | A | B | C | D | E | F | G | H | J | K | L |
|------------|------------|--------------|-------|--------|-----|-------|------|------|------|----|----|----|----|----|------|
| 5802690000 | ISO 2 | G 3/8 | G 3/8 | G 1/8 | 127 | 109.5 | 81.5 | 46.5 | 11.5 | 13 | 32 | 29 | 26 | 60 | 46.5 |

* Two different threaded banjo bolts are supplied with 5801690000 to be used with different cylinders.

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

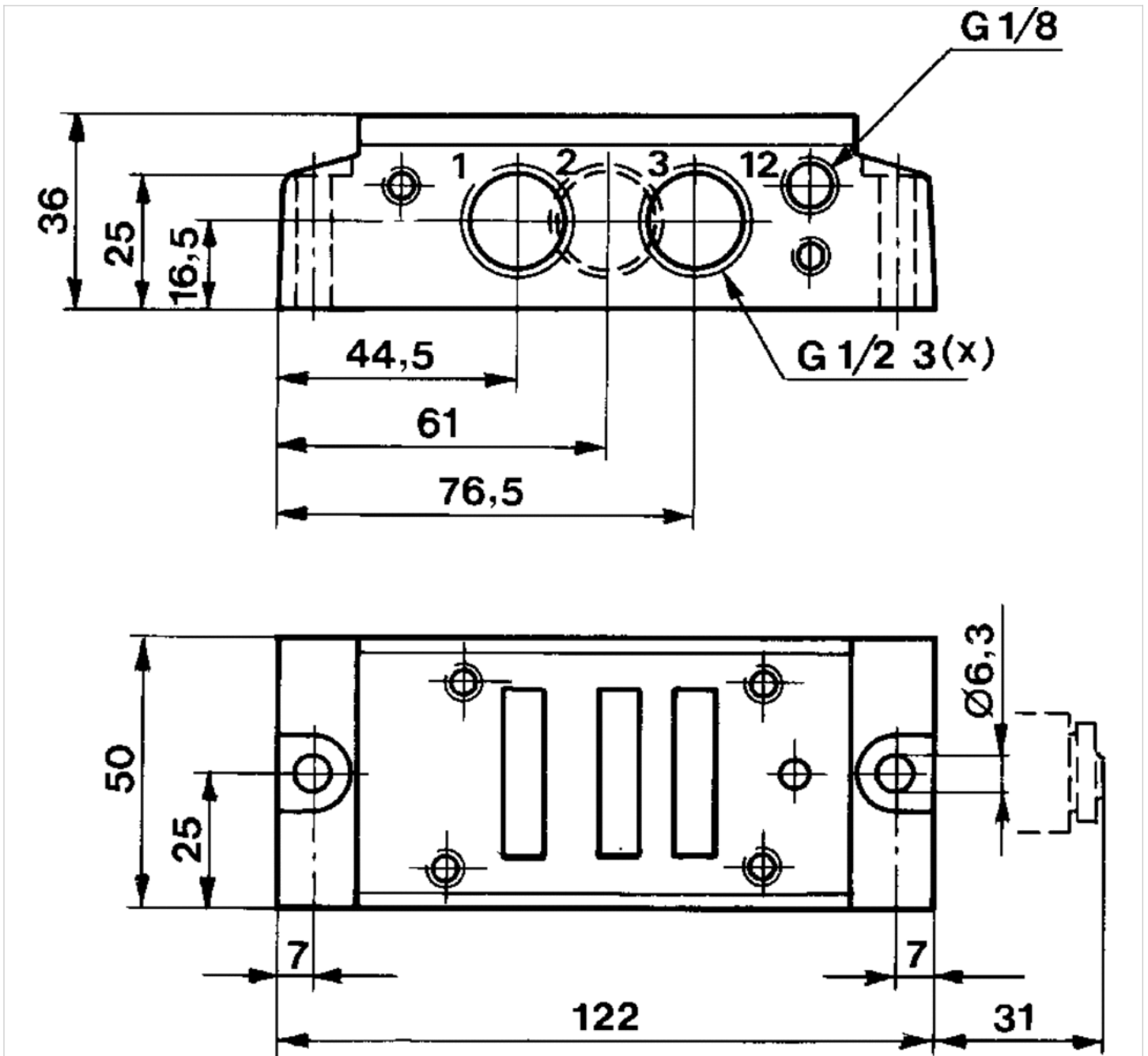
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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



Transition plate

- standard ISO 5599-1
- Frame size ISO 1 ▶ ISO 2
- type F
- Can be assembled into blocks
- Reversed pressure supply permissible



| | |
|-------------------------------|---------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -15 ... 70 °C |
| Medium temperature min./max. | -15 ... 80 °C |
| Medium | Compressed air |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Mounting screw | hexagon head |
| Weight | 0,295 kg |

Technical data

Part No.

1825503164

Technical information

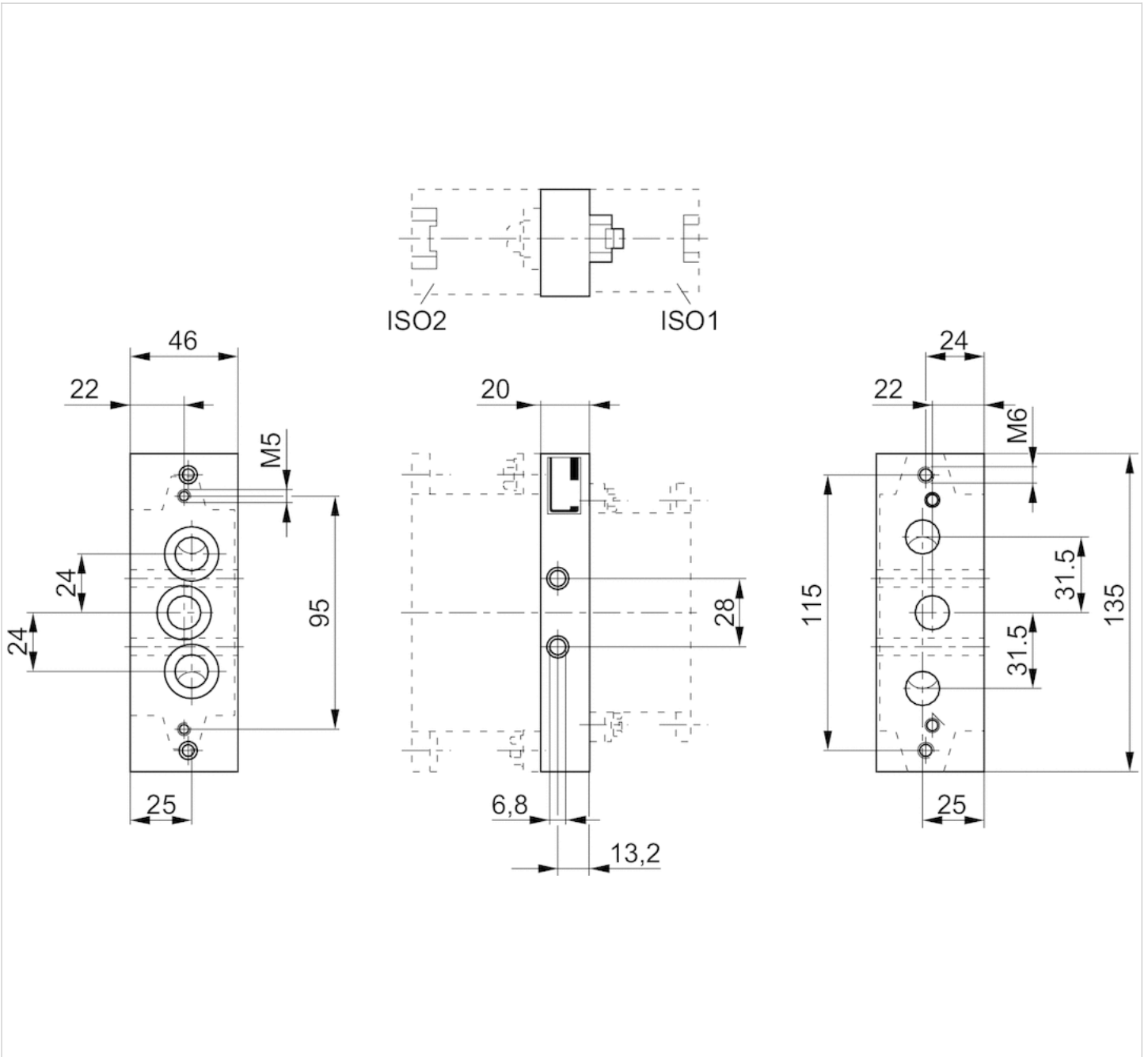
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

Material

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

Dimensions



Transition plate

- standard ISO 5599-1
- Frame size ISO 1 ▶ ISO 3 ISO 2 ▶ ISO 3
- type F
- Can be assembled into blocks
- Reversed pressure supply permissible



| | |
|-------------------------------|---------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -15 ... 70 °C |
| Medium temperature min./max. | -15 ... 80 °C |
| Medium | Compressed air |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Mounting screw | hexagon head |
| Weight | See table below |

Technical data

| Part No. | Frame size | Weight | Fig. |
|------------|---------------|----------|--------|
| 1825503166 | ISO 1 ▶ ISO 3 | 0,825 kg | Fig. 1 |
| 1825503165 | ISO 2 ▶ ISO 3 | 0,79 kg | Fig. 2 |

Technical information

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

Technical information

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

Dimensions

Fig. 1

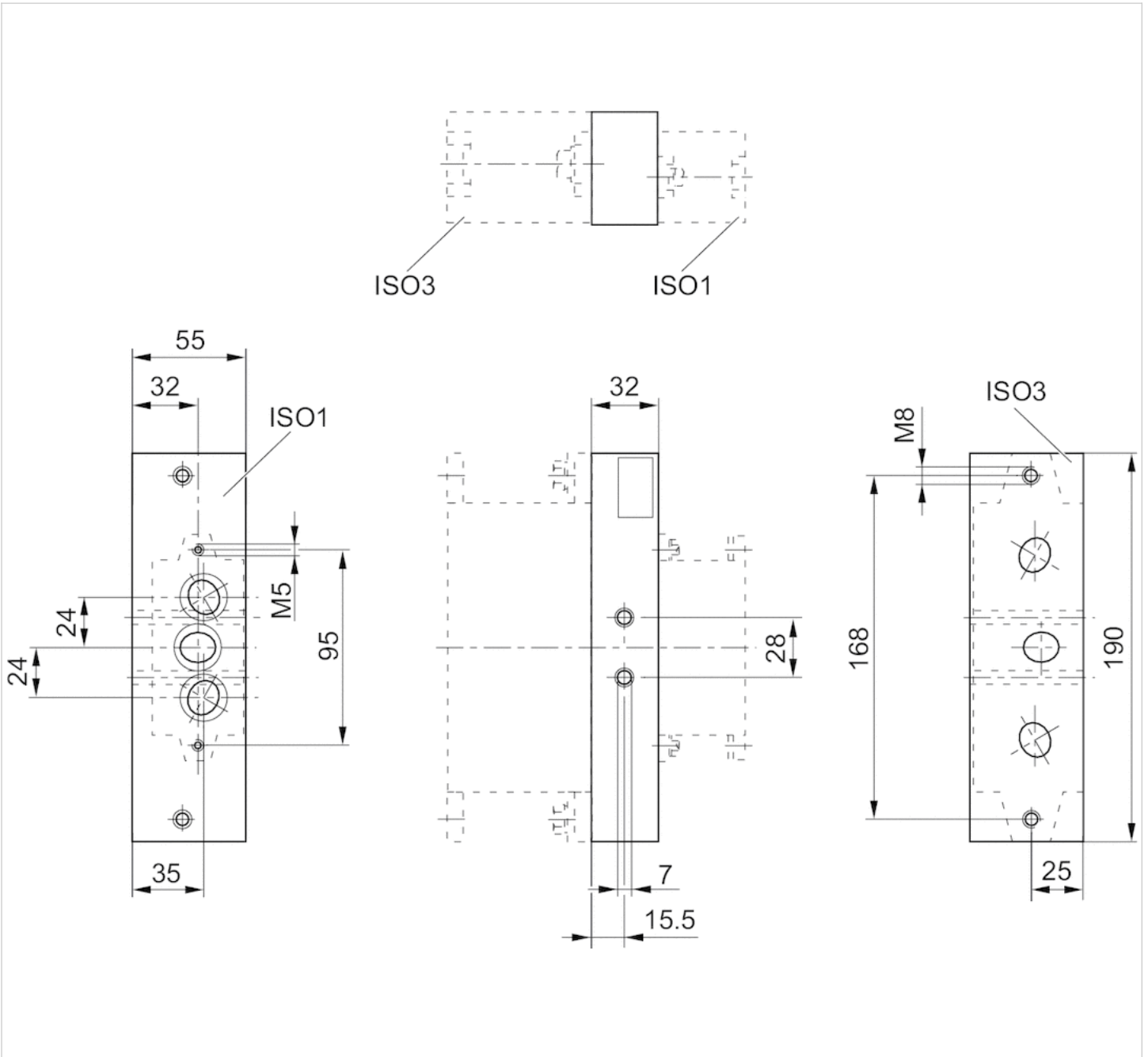
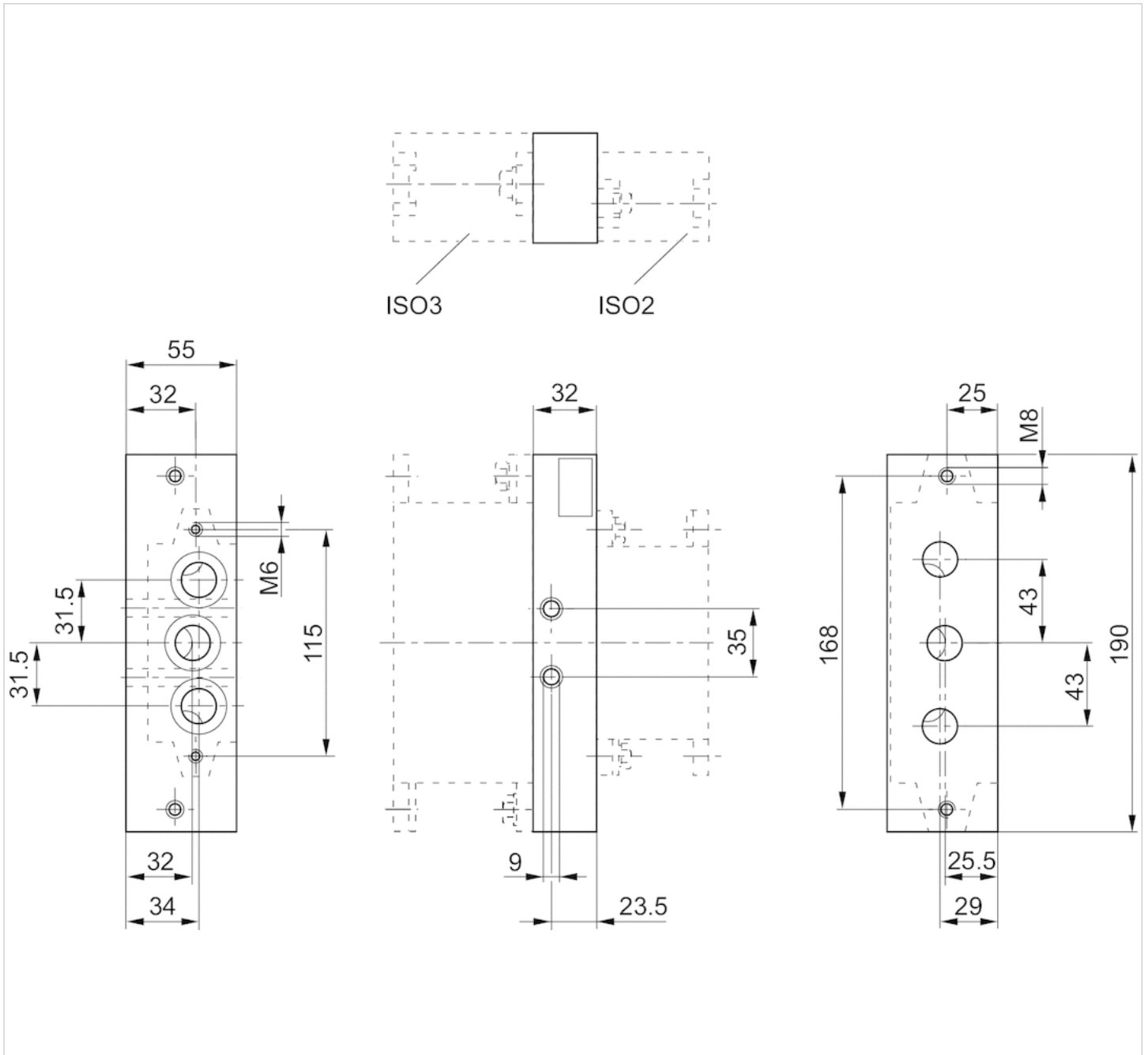


Fig. 2



Base plate, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 2
- type F
- Compressed air connection output G 3/8
- 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 ... 16 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 | 56 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 |
| Mounting screw | hexagon head |
| Weight | 0,378 kg |

Technical data

| Part No. | Compressed air connection Output [2 / 4] | Compressed air connection Pilot connection [12] |
|------------|--|---|
| 1825503147 | G 3/8 | G 1/8 |

| Part No. | Compressed air connection Pilot control exhaust [R] |
|------------|---|
| 1825503147 | G 1/8 |

Scope of delivery incl. seal and mounting screws

Technical information

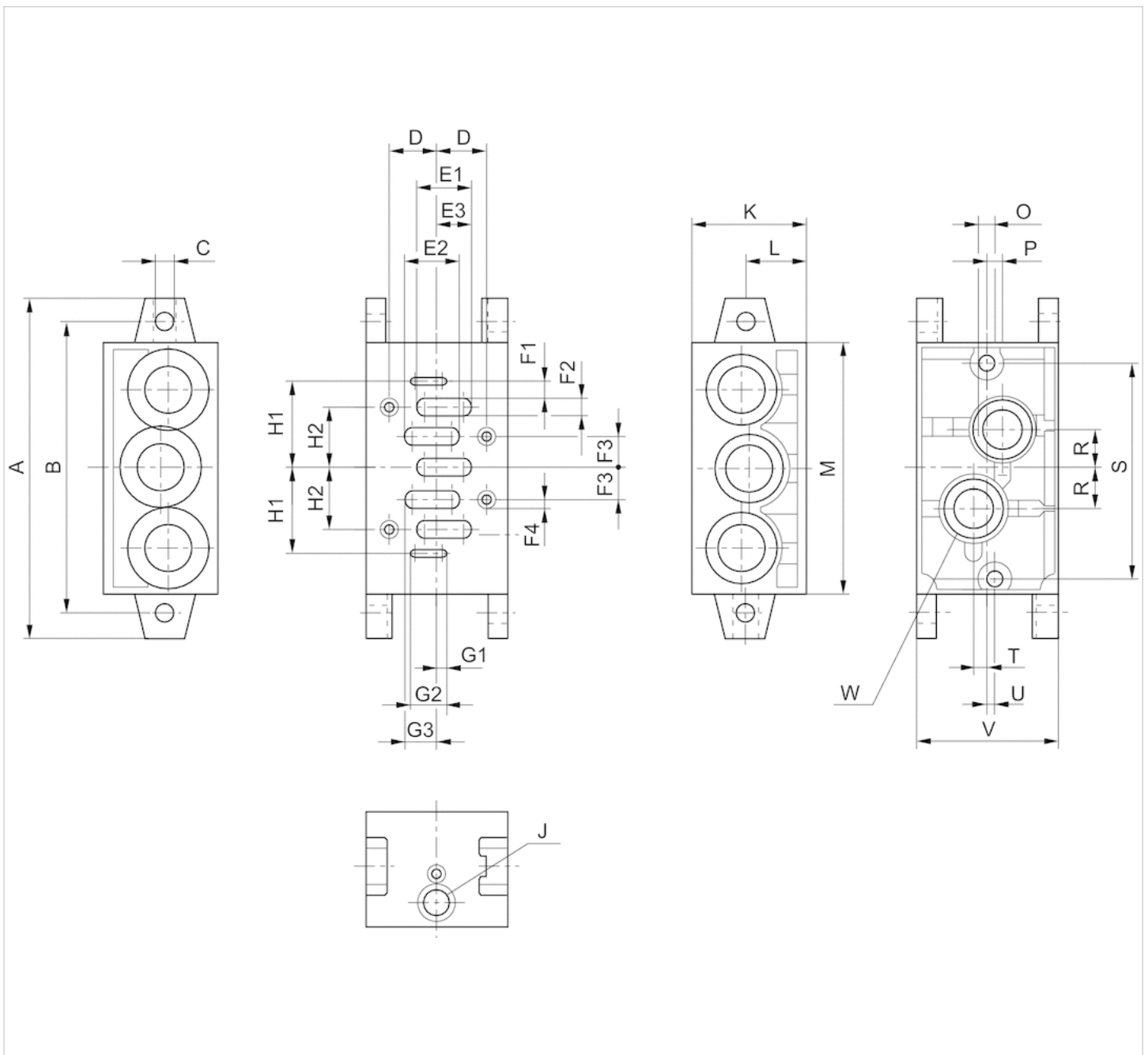
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

| Material | |
|------------|--------------------------------|
| Housing | Die-cast aluminum |
| 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 |
|------------|-----|-----|-----|----|----|----|------|----|----|----|----|----|------|-------|----|----|-------|----|----|-----|----|---|----|
| 1825503147 | 135 | 115 | 6,6 | 19 | 22 | 22 | 13,5 | 3 | 7 | 12 | M6 | 3 | 14,5 | 13,5 | 34 | 24 | G 1/8 | 45 | 24 | 100 | M6 | 6 | 15 |
| S | | T | | | | U | | | | V | | | | W | | | | | | | | | |
| 86 | | 5 | | | | 3 | | | | 56 | | | | G 3/8 | | | | | | | | | |

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 2
- 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. | -15 ... 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 |
| Mounting screw | hexagon head |
| Weight | 0,351 kg |

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Exhaust [3 / 5] |
|------------|---|---|
| 1825503148 | G 1/2 | G 1/2 |

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

Technical information

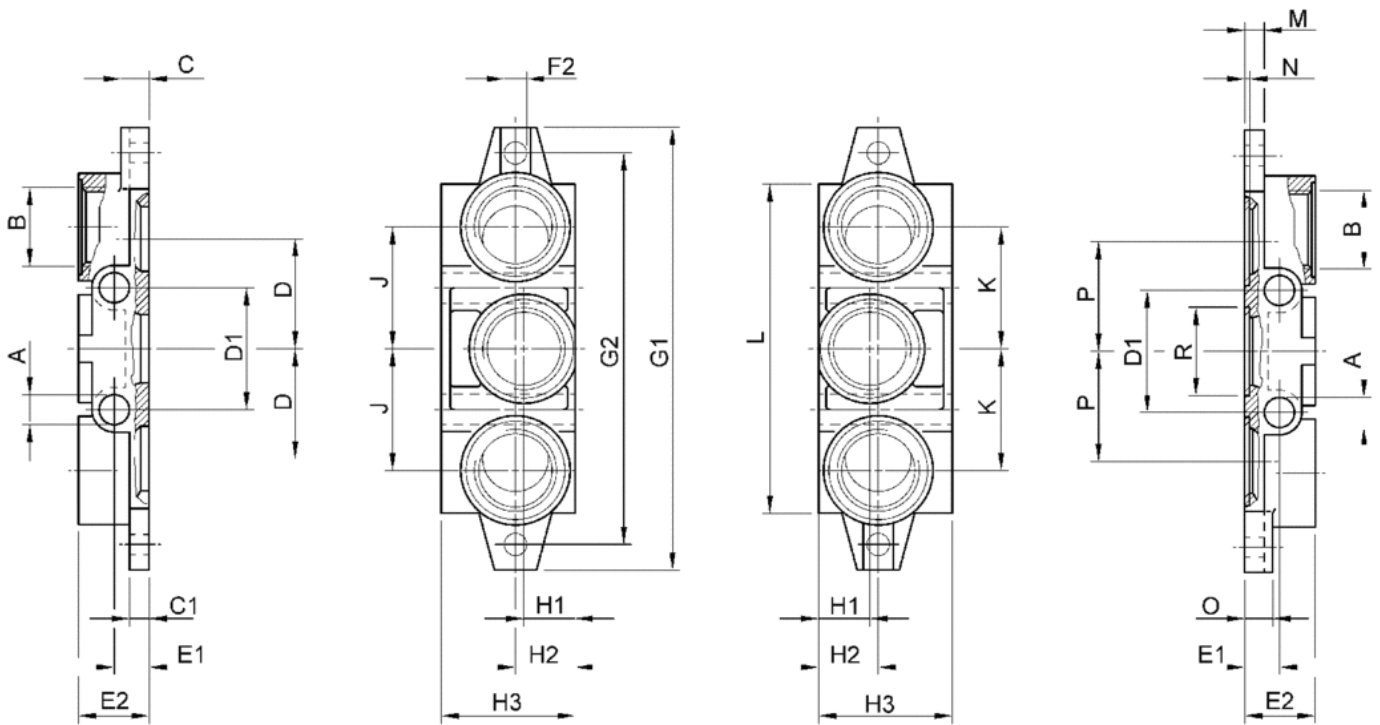
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use 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 | L | M | N | O | P | R |
|------------|---|-------|----|----|------|----|----|----|-------|-----|-----|----|----|----|----|----|-----|---|---|----|------|--------|
| 1825503148 | 9 | G 1/2 | 11 | 8 | 31,5 | 35 | 13 | 26 | Ø 6,6 | 135 | 115 | 23 | 24 | 47 | 34 | 34 | 100 | 8 | 2 | 11 | 31,5 | Ø 28,7 |

End plates for adapter plate

- standard ISO 5599-1
- Frame size ISO 1, ISO 2 ISO 1, ISO 3 ISO 2, ISO 3
- type F
- Can be assembled into blocks
- Reversed pressure supply permissible



| | |
|-----------------------------------|--------------------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -15 ... 70 °C |
| Medium temperature min./max. | -15 ... 80 °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 |
| Mounting screw | hexagon head |
| Weight | See table below |

Technical data

| Part No. | Frame size | Weight |
|------------|--------------|----------|
| 1825503244 | ISO 1, ISO 2 | 0,255 kg |
| 1825503243 | ISO 1, ISO 3 | 0,395 kg |
| 1825503245 | ISO 2, ISO 3 | 0,45 kg |

Scope of delivery: 2 end plates of different sizes 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 .

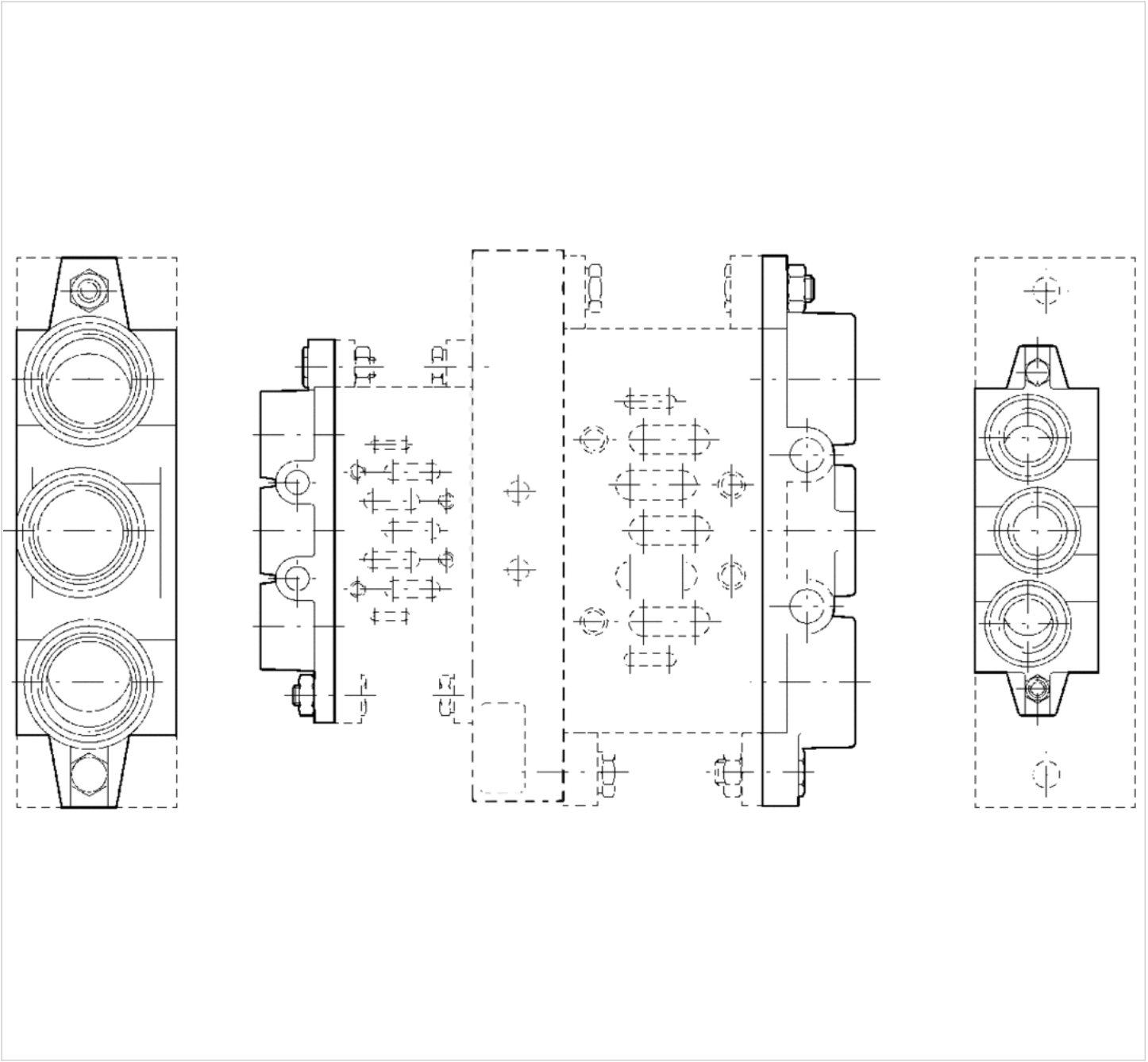
The oil content of compressed air must remain constant during the life cycle.

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

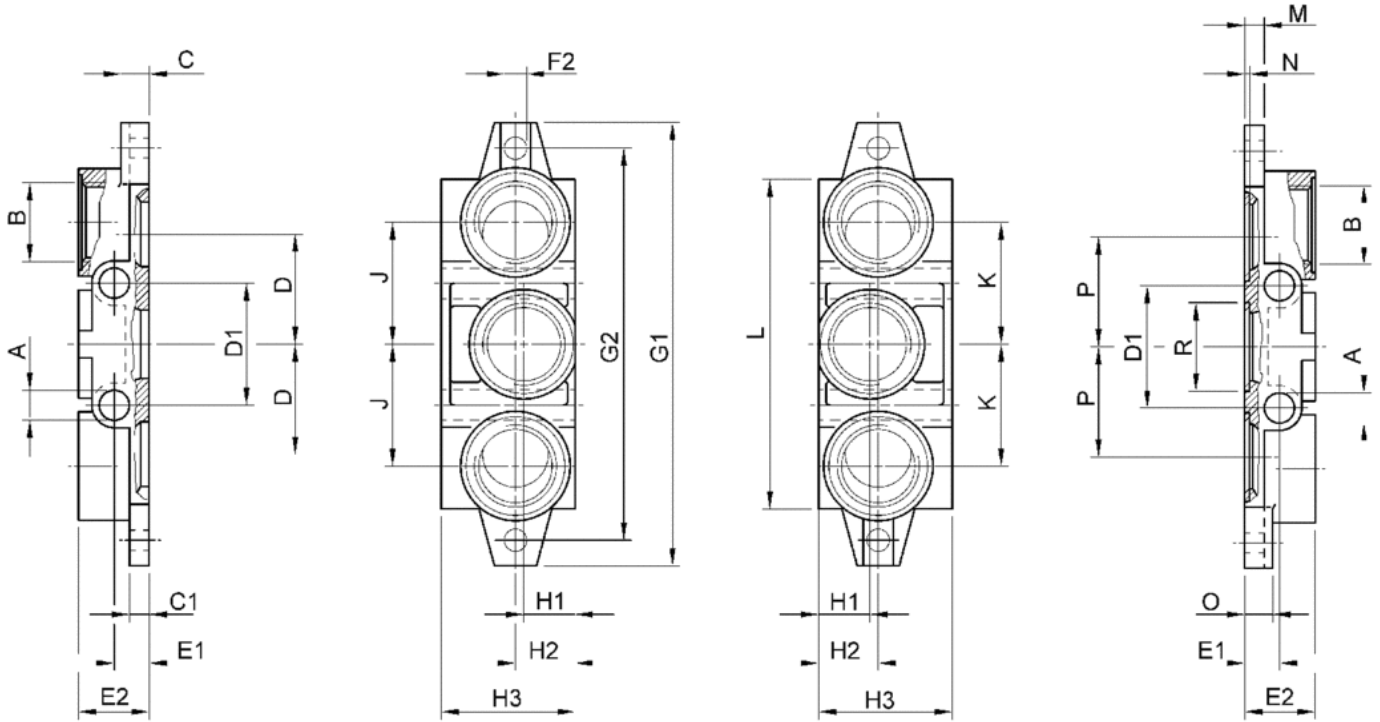
Technical information

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

Dimensions



Dimensions



Dimensions

| | ISO 1 | ISO 2 | ISO 3 |
|----|-------|-------|-------|
| A | 7 | 9 | 12 |
| B | G 3/8 | G 1/2 | G 1 |
| C | 8 | 11 | 12 |
| C1 | 6 | 8 | 8 |
| D | 24 | 31,5 | 47 |
| D1 | 28 | 35 | 52 |
| E1 | 11 | 13 | 15 |
| E2 | 22 | 26 | 32 |
| F2 | Ø 5,5 | Ø 6,6 | Ø 9 |
| G1 | 110 | 135 | 190 |

| | ISO 1 | ISO 2 | ISO 3 |
|----|--------|--------|-------|
| G2 | 95 | 115 | 168 |
| H1 | 22 | 23 | 22 |
| H2 | 22 | 24 | 25 |
| H3 | 46 | 47 | 56 |
| J | 28 | 34 | 52 |
| K | 28 | 34 | 52 |
| L | 85 | 100 | 140 |
| M | 6 | 8 | 8 |
| N | 2 | 2 | 2,7 |
| O | 8 | 11 | 12 |
| P | 24 | 31,5 | 47 |
| R | Ø 22,1 | Ø 28,7 | Ø 38 |

Angle subplate

- standard ISO 5599-1
- Frame size ISO 2
- type F
- Compressed air connection output G 3/8



| | |
|-----------------------------------|---------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | 0 ... 10 bar |
| Ambient temperature min./max. | -15 ... 80 °C |
| Medium temperature min./max. | -15 ... 80 °C |
| Medium | Compressed air |
| Direction of pneumatic port (2,4) | On the side |
| Mounting screw | with hexagon socket |
| Weight | 0,688 kg |

Technical data

| Part No. | Compressed air connection Output [2 / 4] |
|------------|--|
| 1825503204 | G 3/8 |

Technical information

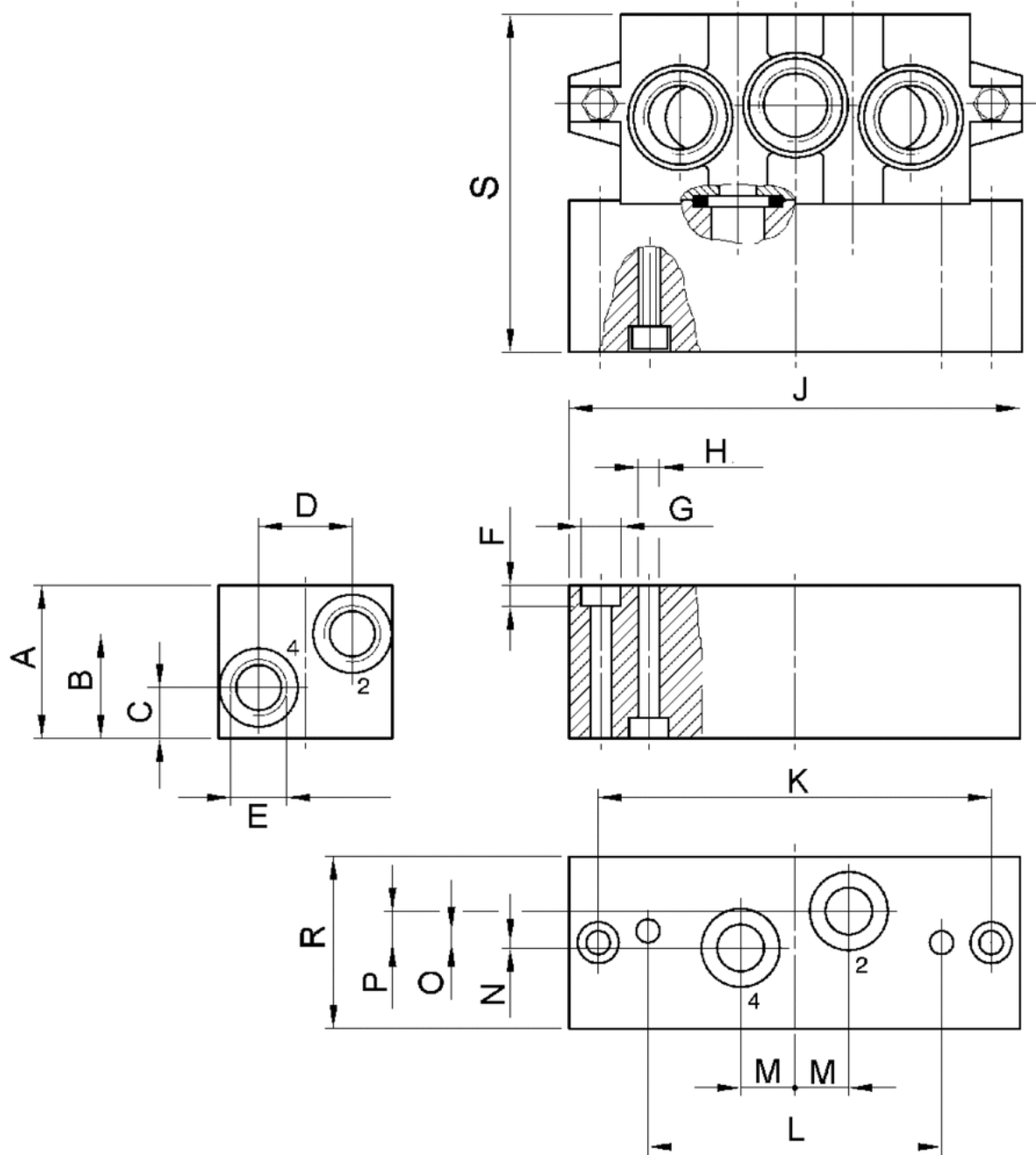
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Dimensions

Dimensions



Dimensions

| Part No. | A | B | C | D | E | F | G | H | J | K | L | M | N | O | P | R | S |
|------------|----|----|----|----|-------|-----|------|-------|-----|-----|----|----|---|---|---|----|----|
| 1825503204 | 40 | 26 | 14 | 29 | G 3/8 | 6,8 | Ø 11 | Ø 6,6 | 135 | 115 | 86 | 15 | 5 | 3 | 6 | 55 | 85 |

Blanking piece

- standard ISO 5599-1, ISO 2

- type F



| | |
|-------------------------------|---------------|
| Standards | ISO 5599-1 |
| Ambient temperature min./max. | -15 ... 80 °C |
| Weight | 0,011 kg |

Technical data

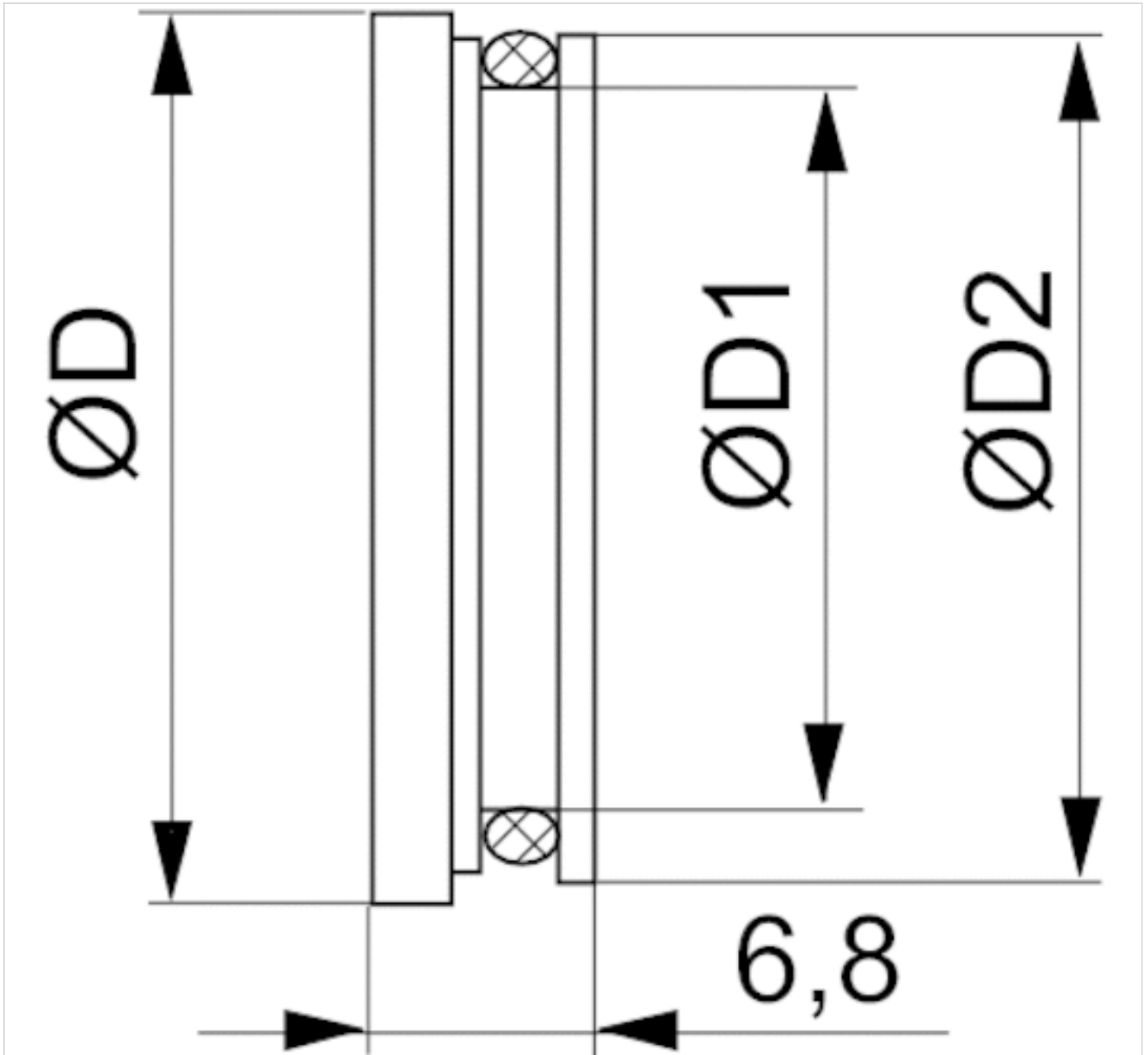
| Part No. | Type | Accessory type | Frame size |
|------------|-----------------------|----------------|------------|
| 1820220023 | Blanking piece, ISO 2 | type F | ISO 2 |

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | Ø D | Ø D1 | Ø D2 |
|------------|-----|------|------|
| 1820220023 | 23 | 14.3 | 18.2 |

Blanking piece, Subbases ISO 5599-1

- standard ISO 5599-1, ISO 2

- type F



Standards

ISO 5599-1

Working pressure min./max.

-0,95 ... 10 bar

Ambient temperature min./max.

-25 ... 70 °C

Technical data

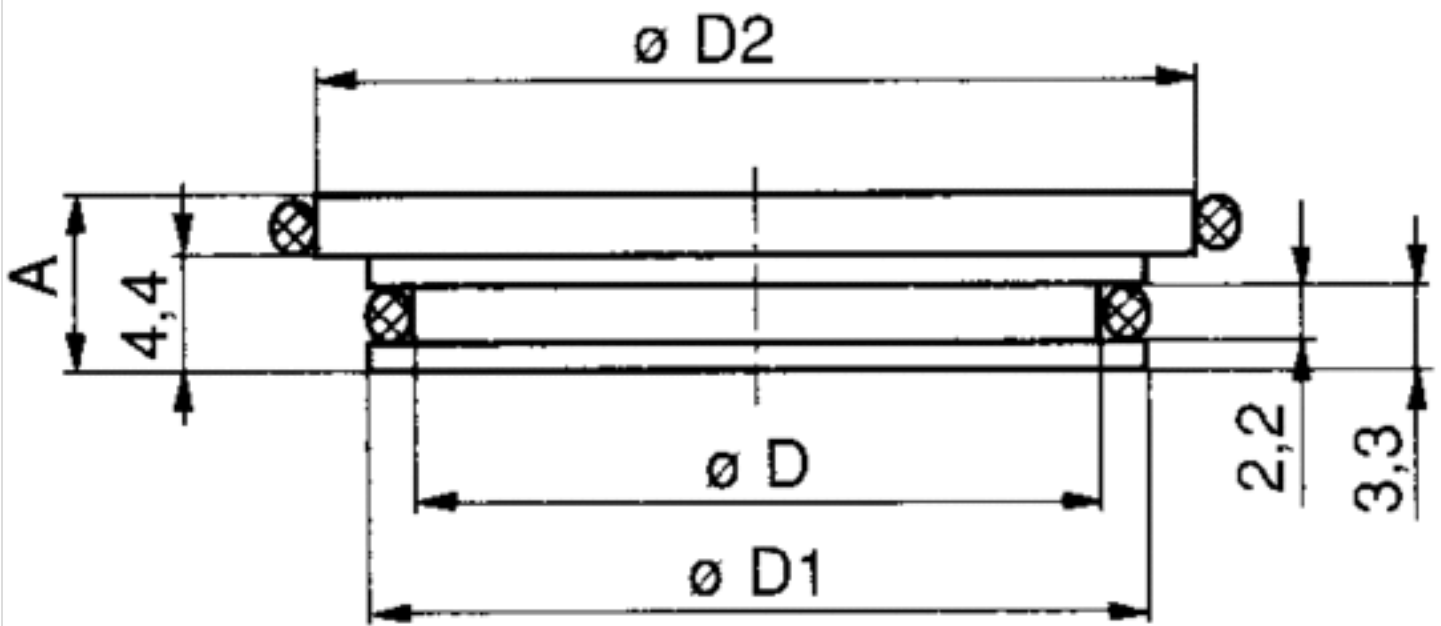
| Part No. | Accessory type | Frame size |
|------------|----------------|------------|
| 8985049022 | type F | ISO 2 |

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Brass |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | Frame size | A | D | D1 | D2 |
|------------|------------|-----|------|------|----|
| 8985049022 | ISO 2 | 6.2 | 15.7 | 18.3 | 23 |

End plate right

- standard ISO 5599-1
- Frame size ISO 1 ISO 2 ISO 3
- type C



| | |
|-------------------------------|------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -15 ... 70 °C |
| Medium temperature min./max. | -15 ... 70 °C |
| Medium | Compressed air |
| Weight | See table below |

Technical data

| Part No. | Frame size | Compressed air connection Input [1] | Compressed air connection Exhaust [3 / 5] | Weight |
|------------|------------|---|---|----------|
| R432037651 | ISO 1 | G 3/8 | G 3/8 | 0,32 kg |
| R432037653 | ISO 2 | G 3/4 | G 3/4 | 0,491 kg |
| R432037655 | ISO 3 | G 1 | G 1 | 1,32 kg |

Scope of delivery incl. seal and mounting screws

Technical information

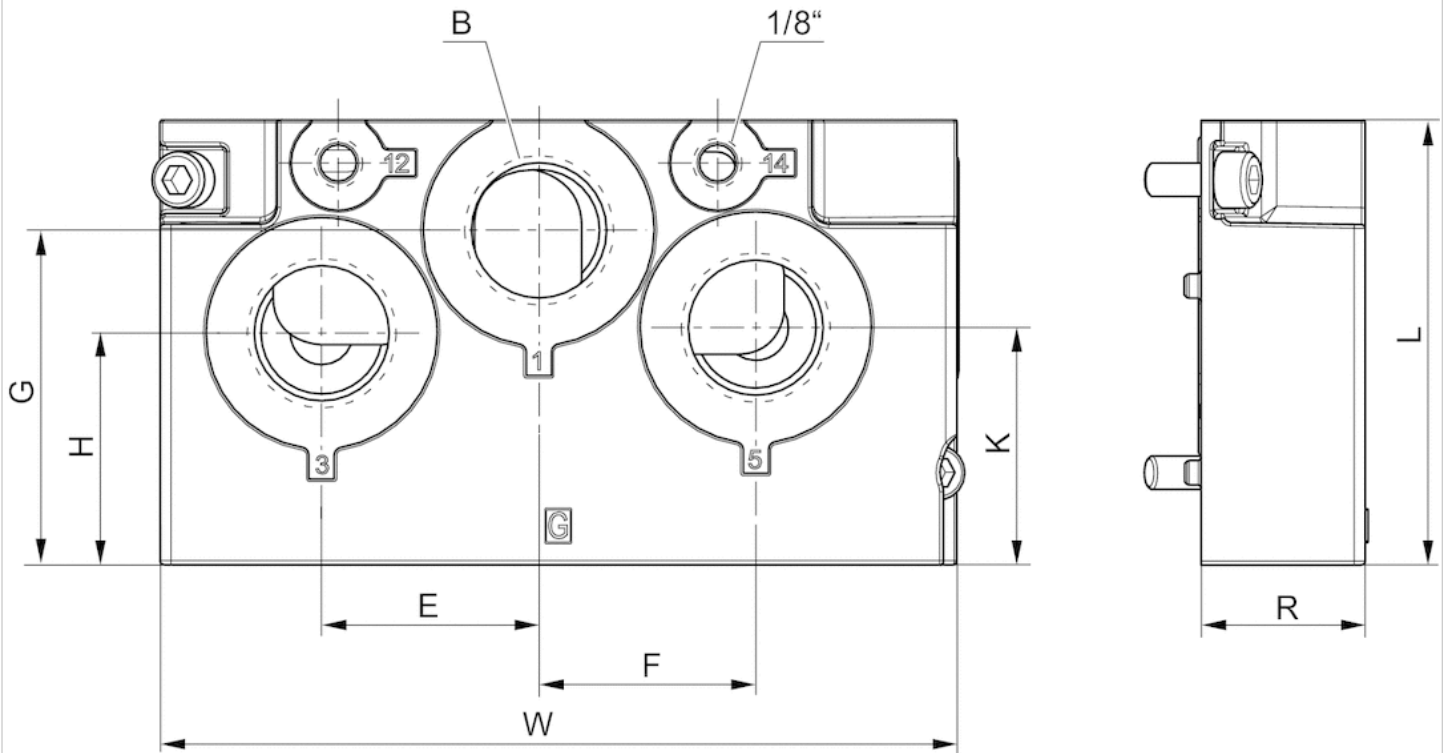
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Technical information

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

Dimensions

Dimensions



Dimensions

| Part No. | Frame size | B | E | F | G | H | J | K | R | L | W |
|------------|------------|-----|----|----|------|------|----|------|------|------|-----|
| R432037651 | ISO 1 | 3/8 | 23 | 18 | 15.5 | 30 | 20 | 37.5 | 25 | 60.6 | 135 |
| R432037653 | ISO 2 | 3/4 | 39 | 39 | 60 | 41.5 | 38 | 42.5 | 29.5 | 79.7 | 143 |
| R432037655 | ISO 3 | 1 | 49 | 49 | 76 | 53 | 32 | 53 | 36 | 100 | 164 |

Base plate

- standard ISO 5599-1
- Frame size ISO 1 ISO 2 ISO 3
- type C
- Compressed air connection output G 3/8 G 1/2 G 3/4
- Can be assembled into blocks



| | |
|-----------------------------------|--------------------------|
| 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 |
| Direction of pneumatic port (1) | Both directions possible |
| Direction of pneumatic port (3,5) | Both directions possible |
| Exhaust type | Ports separated |
| Weight | See table below |

Technical data

| Part No. | Frame size | Compressed air connection Output [2 / 4] | Weight |
|------------|------------|--|----------|
| R432037639 | ISO 1 | G 3/8 | 0,592 kg |
| R432037641 | ISO 2 | G 1/2 | 1,04 kg |
| R432037643 | ISO 3 | G 3/4 | 1,89 kg |

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.

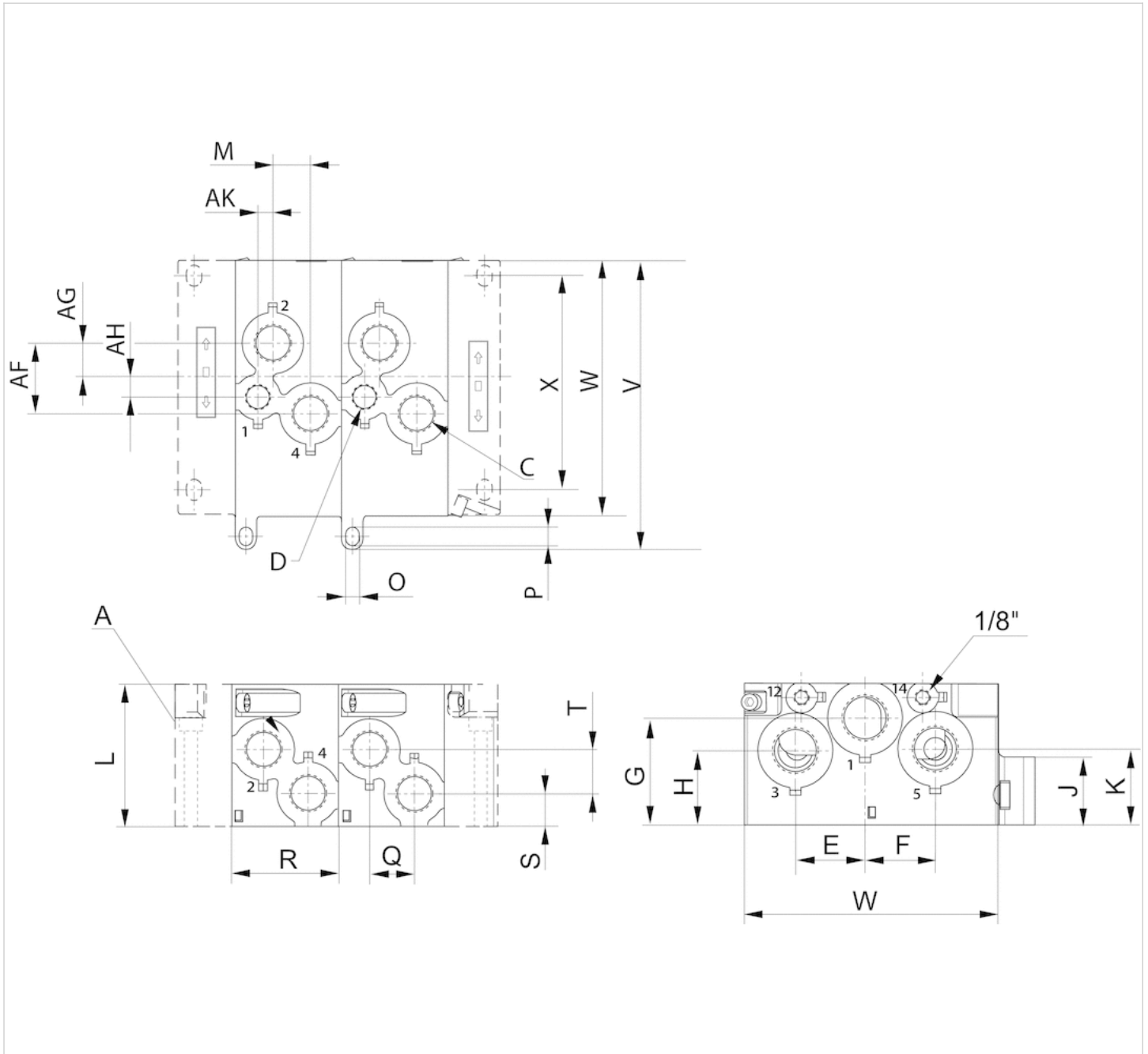
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

| Material | |
|------------|----------------------------------|
| Surface | Painted |
| Base plate | Die-cast aluminum, black painted |
| Seal | Acrylonitrile butadiene rubber |

Dimensions

Dimensions



A = left and right end plates in two versions

Dimensions

| Part No. | A | D | C | AF | AG | AH | AK | E | F | G | H | J | K | L | M | O | P | R |
|------------|-------|-------|-------|------|------|------|------|----|----|------|------|----|------|------|------|-----|-----|------|
| R432037639 | G 1/4 | - | G 3/8 | 23.8 | 11.8 | - | - | 23 | 18 | 15,5 | 30 | 20 | 37,5 | 60.6 | 12 | 5.5 | 8.5 | 45 |
| R432037641 | G 1/2 | G 3/8 | G 1/2 | 39.5 | 19 | 11 | 8.2 | 39 | 39 | 60 | 41,5 | 38 | 42,5 | 79.7 | 21 | 5.5 | 9.3 | 59.5 |
| R432037643 | G 3/4 | G 1/2 | G 3/4 | 46.3 | 25.1 | 11.2 | 15.8 | 49 | 49 | 76 | 53 | 32 | 53 | 100 | 22.5 | 6.3 | 9.3 | 80 |

| Q | S | T | X | W | V |
|----|------|------|-------|-----|-----|
| 18 | 13.3 | 14.7 | 102,5 | 135 | 150 |

| Q | S | T | X | W | V |
|----|------|------|-------|-----|-------|
| 25 | 18 | 24.8 | 119,6 | 143 | 162,5 |
| 38 | 24.5 | 20.5 | 99 | 164 | 183 |

End plate left

- standard ISO 5599-1
- Frame size ISO 1 ISO 2 ISO 3
- type C



| | |
|-------------------------------|------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -0,95 ... 16 bar |
| Ambient temperature min./max. | -15 ... 70 °C |
| Medium temperature min./max. | -15 ... 70 °C |
| Medium | Compressed air |
| Weight | See table below |

Technical data

| Part No. | Frame size | Compressed air connection Input [1] | Compressed air connection Exhaust [3 / 5] | Weight |
|------------|------------|---|---|----------|
| R432037645 | ISO 1 | G 3/8 | G 3/8 | 0,309 kg |
| R432037647 | ISO 2 | G 3/4 | G 3/4 | 0,509 kg |
| R432037649 | ISO 3 | G 1 | G 1 | 1,31 kg |

Scope of delivery incl. seal and mounting screws

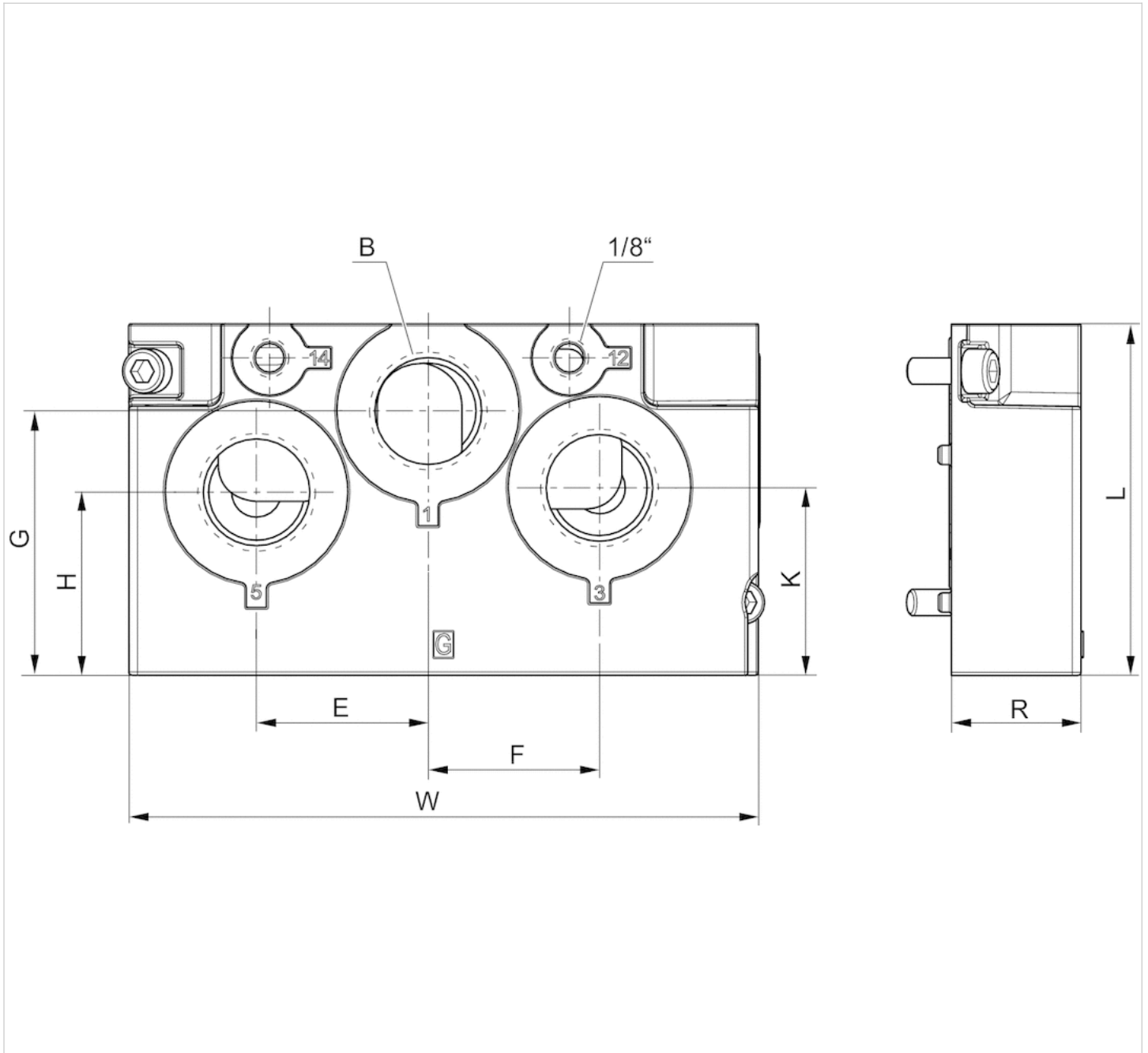
Technical information

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

| Part No. | Frame size | B | E | F | G | H | J | K | L | R | W |
|------------|------------|-----|----|----|------|------|----|------|------|----|-----|
| R432037645 | ISO 1 | 3/8 | 23 | 18 | 15.5 | 30 | 20 | 37.5 | 60.6 | 25 | 135 |
| R432037647 | ISO 2 | 3/4 | 39 | 39 | 60 | 41.5 | 38 | 42.5 | 79.7 | 32 | 143 |
| R432037649 | ISO 3 | 1 | 49 | 49 | 76 | 53 | 32 | 53 | 100 | 37 | 164 |

Blanking piece

- according to ISO 5599

- standard ISO 1 ISO 2 ISO 3

- type C



Weight

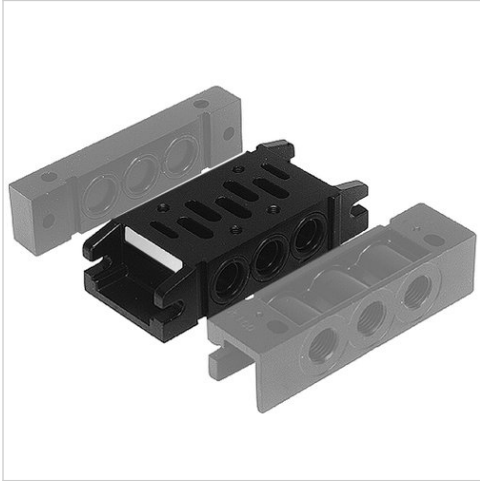
See table below

Technical data

| Part No. | Type | Accessory type | Frame size | Weight |
|------------|----------------|----------------|------------|----------|
| R432038306 | Blanking piece | type C | ISO 1 | 0,009 kg |
| R432037662 | Blanking piece | type C | ISO 2 | 0,009 kg |
| R432037663 | Blanking piece | type C | ISO 3 | 0,02 kg |

Base plate, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 2
- type K
- Compressed air connection output G 1/4 G 3/8
- Can be assembled into blocks



| | |
|-----------------------------------|---------------------|
| 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 (2,4) | Down |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Weight | See table below |

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

Technical data

| Part No. | Compressed air connection Output [2 / 4] | Compressed air connection Pilot connection [12] | Weight |
|------------|--|---|---------|
| 5802720000 | G 1/4 | G 1/8 | 0,27 kg |
| 5802750000 | G 3/8 | G 1/8 | 0,52 kg |

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.

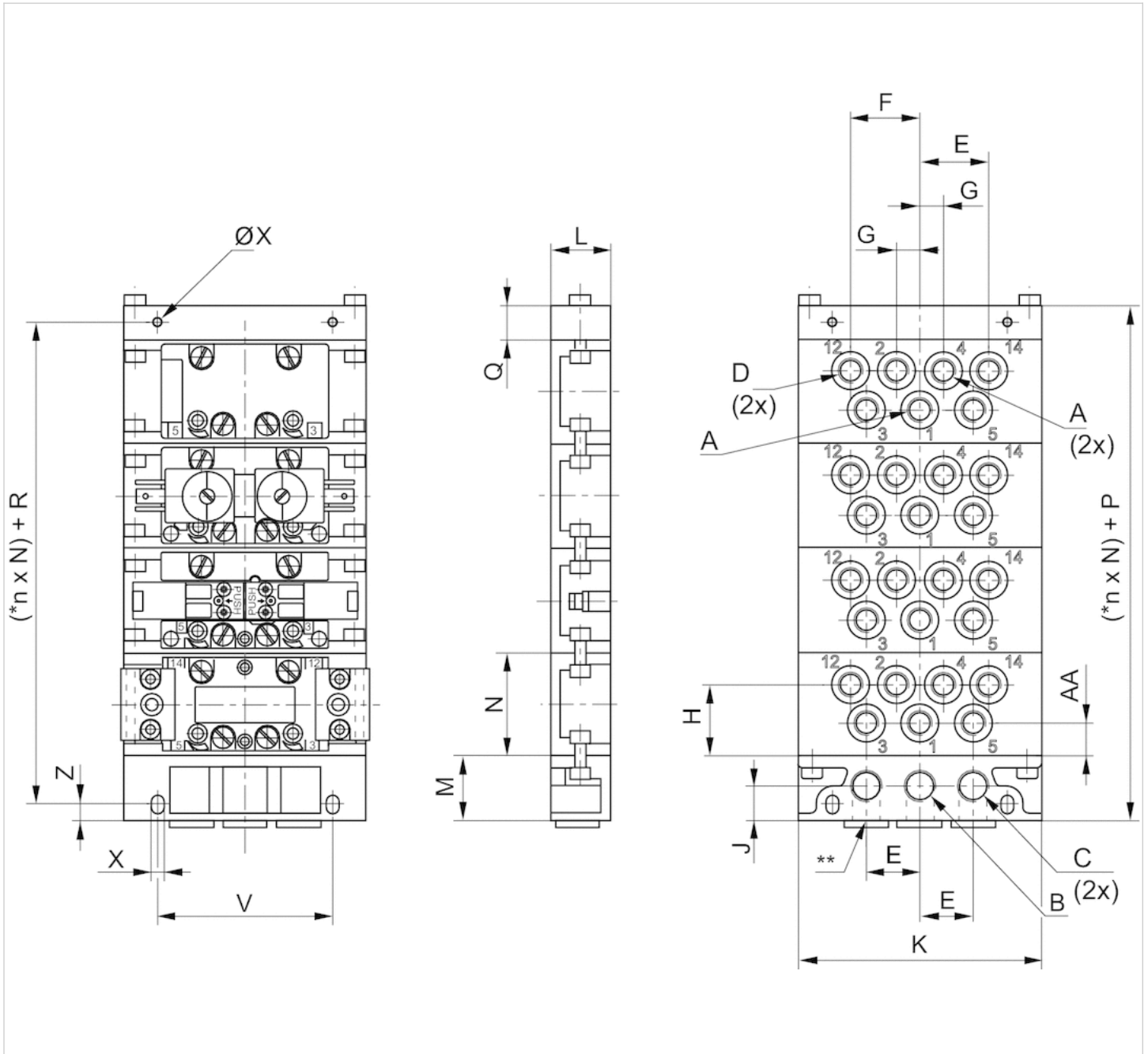
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



* n = Number of subbases.

** Alternative port openings, closed with plugs

Dimensions

| Part No. | * | | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | V | X |
|------------|---|-------|-------|-------|-------|-------|----|----|------|----|----|-----|----|----|----|----|----|----|-----|-----|
| 5802720000 | b | ISO 2 | G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 39 | 13.5 | 38 | 20 | 122 | 30 | 34 | 56 | 49 | 15 | 34 | 94 | 6.4 |
| 5802750000 | c | ISO 2 | G 3/8 | G 1/2 | G 1/2 | G 1/8 | 36 | 52 | 17 | 33 | 22 | 156 | 37 | 39 | 56 | 59 | 20 | 40 | 118 | 8.4 |

| Z | AA |
|---|----|
| 8 | 18 |

| | |
|----|----|
| Z | AA |
| 10 | 13 |

* Intermediate plates designated with the same letters (a-d) can be mounted together without a transition plate.

Intermediate plate for separate air supply, ports 2 and 4 on bottom

- standard ISO 5599-1
- Frame size ISO 2
- type K
- Compressed air connection output G 1/4 G 3/8
- Can be assembled into blocks



| | |
|-----------------------------------|---------------------|
| 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 | See table below |

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

Technical data

| Part No. | Type | Compressed air connection Input [1] |
|------------|--|---|
| 5802670000 | Intermediate plate for separate air supply | G 1/4 |
| 5802680000 | Intermediate plate for separate air supply | G 3/8 |

| Part No. | Compressed air connection Output [2 / 4] | Compressed air connection Pilot connection [12] | Port | Weight |
|------------|--|---|-------|---------|
| 5802670000 | G 1/4 | G 1/8 | - | 0,27 kg |
| 5802680000 | G 3/8 | G 1/8 | G 3/8 | 0,52 kg |

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).

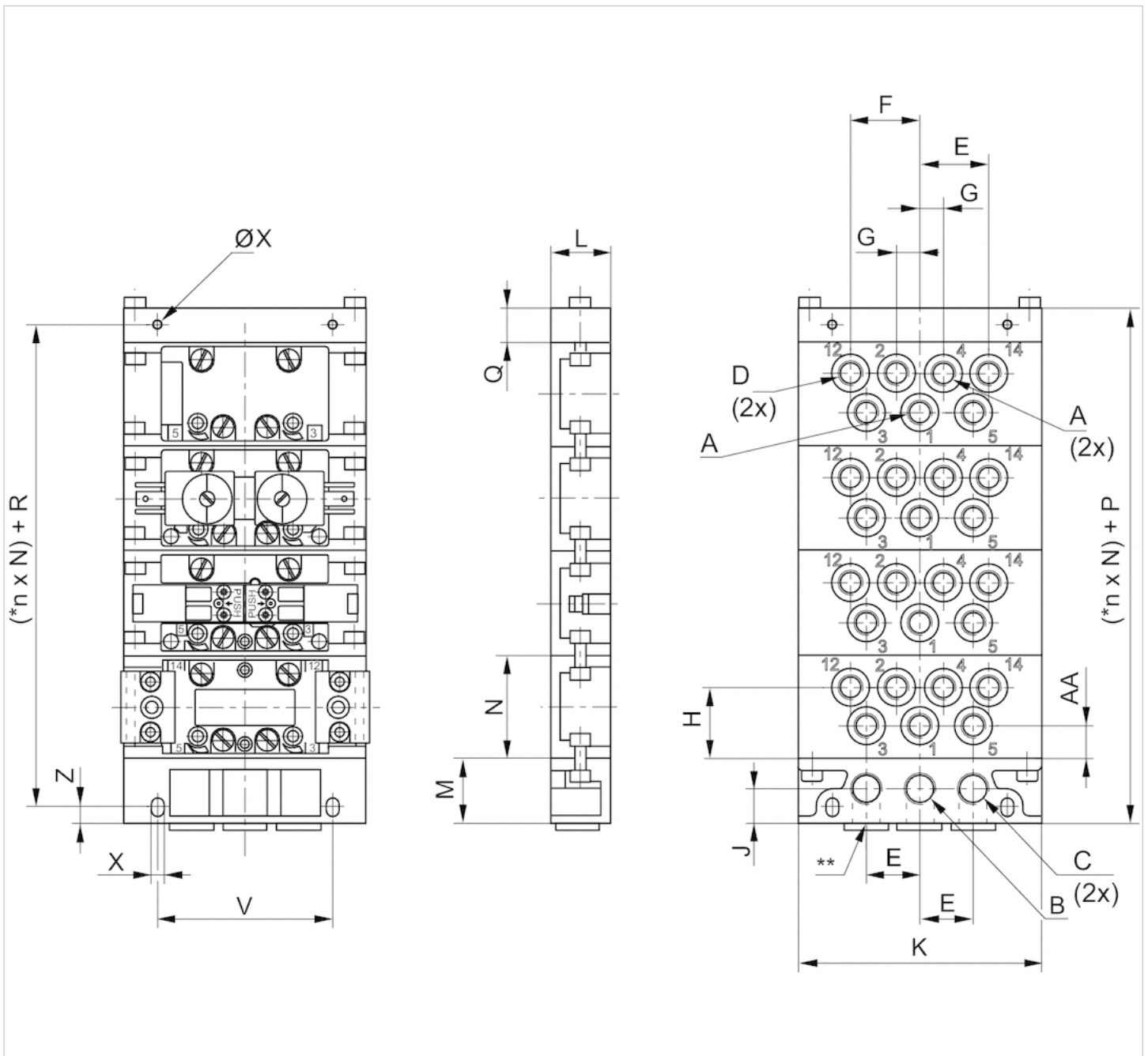
Technical information

Material

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

Dimensions

Dimensions



* n = Number of subbases.

** Alternative port openings, closed with plugs

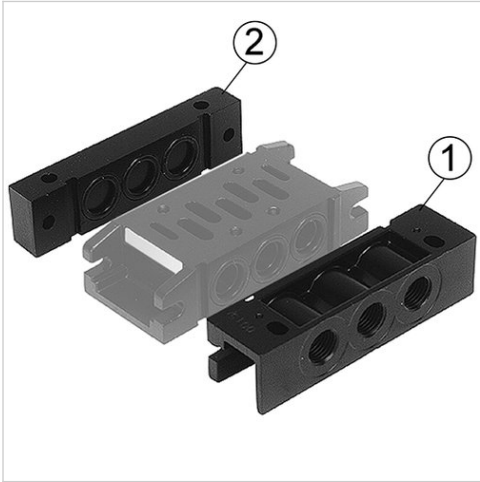
Dimensions

| Part No. | | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R | V | X | Z |
|------------|-------|-------|-------|-------|-------|----|----|------|----|----|-----|----|----|----|----|----|----|-----|-----|----|
| 5802670000 | ISO 2 | G 1/4 | G 3/8 | G 3/8 | G 1/8 | 27 | 39 | 13.5 | 38 | 20 | 122 | 28 | 34 | 56 | 49 | 15 | 34 | 94 | 6.4 | 8 |
| 5802680000 | ISO 2 | G 3/8 | G 1/2 | G 1/2 | G 1/8 | 36 | 52 | 17 | 33 | 22 | 156 | 37 | 39 | 56 | 59 | 20 | 40 | 118 | 8.4 | 10 |

| | | | | | | | | | | | | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| AA | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | | | | | | | |

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 1, ISO 2
- type K
- Can be assembled into blocks



| | |
|-------------------------------|---------------------|
| 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 |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Weight | See table below |

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

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Exhaust [3 / 5] | Weight |
|------------|---|---|---------|
| 5802850000 | G 3/8 | G 3/8 | 0,26 kg |
| 5802860000 | - | - | 0,13 kg |

Technical information

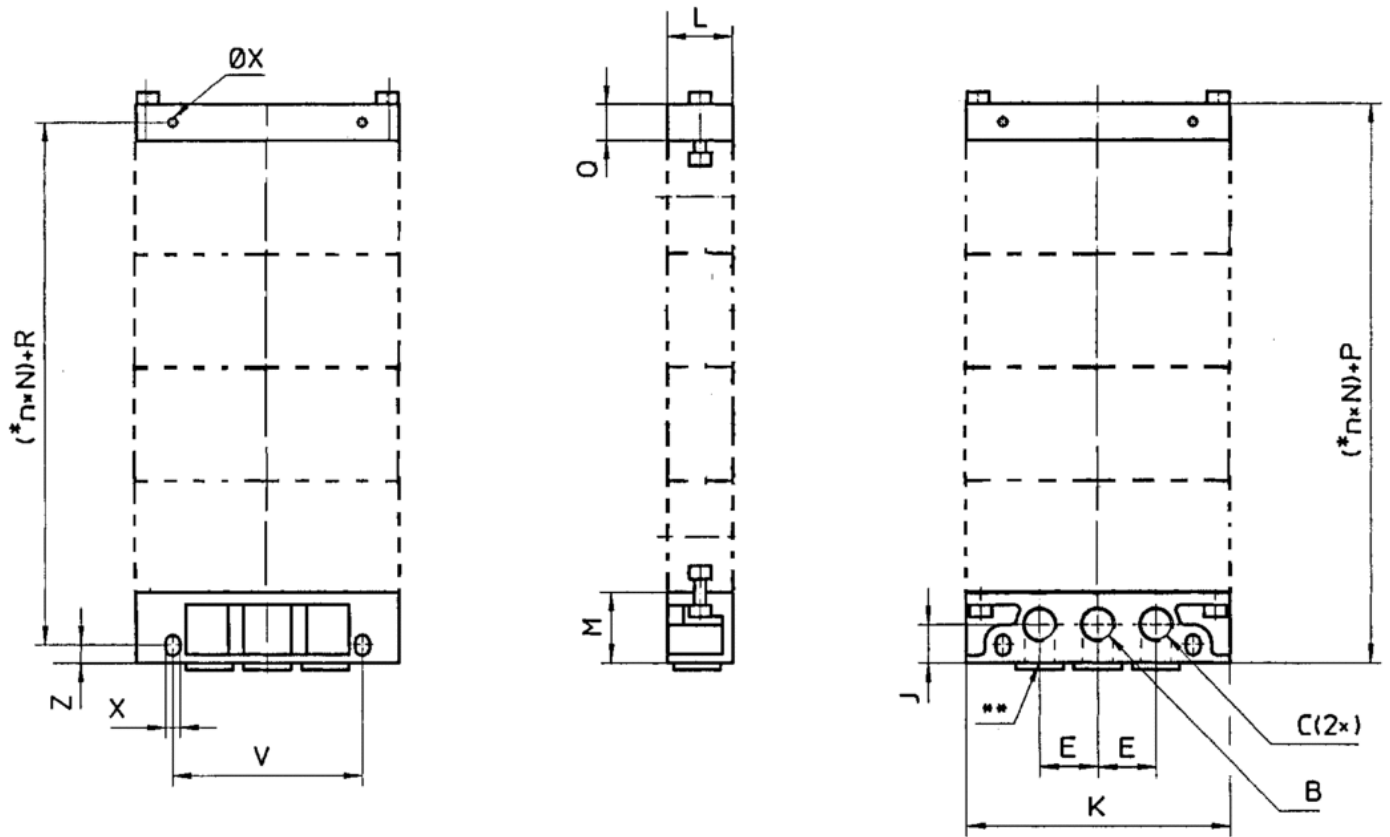
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only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

Technical information

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

Dimensions

Dimensions



* n = Number of subbases.

** Alternative port openings, closed with plugs

Dimensions

| Part No. | | B | C | E | J | K | L | M | P | Q | R | V | X | Z | Weight |
|------------|---------------|-------|-------|----|----|-----|----|----|----|----|----|----|-----|---|---------|
| 5802850000 | ISO 1 , ISO 2 | G 3/8 | G 3/8 | 27 | 20 | 122 | 30 | 34 | 49 | - | 34 | 94 | 6.4 | 8 | 0,26 kg |
| 5802860000 | ISO 1 , ISO 2 | - | - | - | - | 122 | 29 | - | 49 | 15 | 34 | 94 | 6.4 | - | 0,13 kg |

Separator set

- standard ISO 5599-1, ISO 1 ISO 2

- type K



Standards

ISO 5599-1

Ambient temperature min./max.

-20 ... 70 °C

Weight

0,017 kg

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

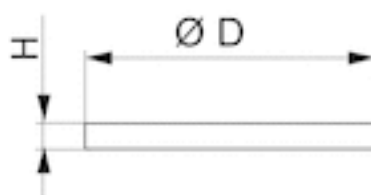
Technical data

| Part No. | Type | Accessory type | Frame size | Delivery unit |
|------------|------|----------------|--------------|---------------|
| 5802880000 | b | type K | ISO 1, ISO 2 | 3 piece |

Technical information

| Material | |
|----------|-------|
| Housing | Brass |

Dimensions



Dimensions

| Part No. | D | H |
|------------|------|---|
| 5802880000 | 17,2 | 2 |

Base plate, Ports 2 and 4 side or bottom

- standard ISO 5599-1
- Frame size ISO 2
- type G
- Compressed air connection output G 3/8
- Can be assembled into blocks



| | |
|-----------------------------------|--------------------------|
| 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 (2,4) | Both directions possible |
| Direction of pneumatic port (14) | Down |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Weight | 0,36 kg |

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

Technical data

| Part No. | Compressed air connection Input [1] | Compressed air connection Output [2 / 4] |
|------------|---|--|
| 5802500000 | G 3/8 | G 3/8 |

| Part No. | Compressed air connection Pilot connection [12] |
|------------|---|
| 5802500000 | G 1/8 |

Scope of delivery incl. seal and mounting screws

Technical information

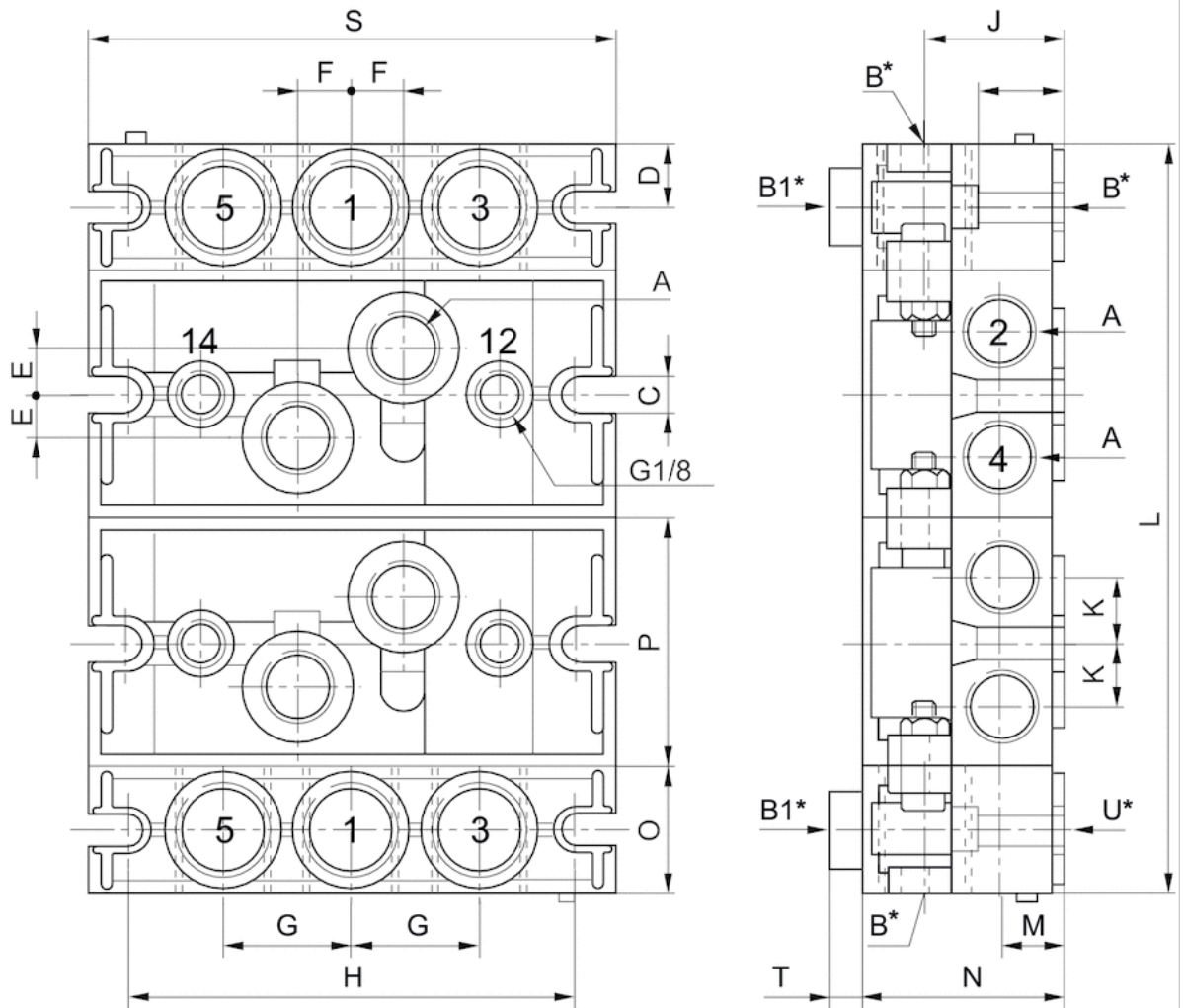
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only 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 | B1 | C | D | E | F | G | H | J | K | L |
|------------|-------|-----------|-----------|-----------|-----|------|----|----|----|-----|----|----|-------------|
| 5802500000 | ISO 2 | 2 x G 3/8 | 3 x G 1/2 | 3 x G 3/8 | 6.5 | 14.5 | 10 | 12 | 29 | 102 | 32 | 15 | n x 56 + 58 |
| M | N | O | P | R | S | T | | | | | | | |
| 15 | 45.7 | 29 | 56 | 20 | 120 | 7 | | | | | | | |

n = number of subbases

End plate left, End plate right

- standard ISO 5599-1
- Frame size ISO 2
- type G
- Can be assembled into blocks
- Base plate principle, multiple
- Reversed pressure supply permissible



Standards

Compressed air connection
 Working pressure min./max.
 Ambient temperature min./max.
 Medium temperature min./max.
 Medium
 Direction of pneumatic port (1)
 Direction of pneumatic port (3,5)
 Exhaust (3,5)
 Exhaust type
 Weight

ISO 5599-1

according to ISO 5599-1
 -1 ... 16 bar
 -20 ... 70 °C
 -20 ... 70 °C
 Compressed air
 Both directions possible
 Both directions possible
 uncollected exhaust
 Ports separated
 0,46 kg

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

Technical data

| Part No. | Compressed air connection | |
|------------|---------------------------|--------------------|
| | Input [1] | Exhaust [3 / 5] |
| 5802510000 | G 1/2 | G 1/2 |

Delivered in pairs with all ports closed. Porting can be in end, top, or bottom (both ends). Porting is selected by drilling through dimensions B*, B1*, or U* on drawing below., 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.

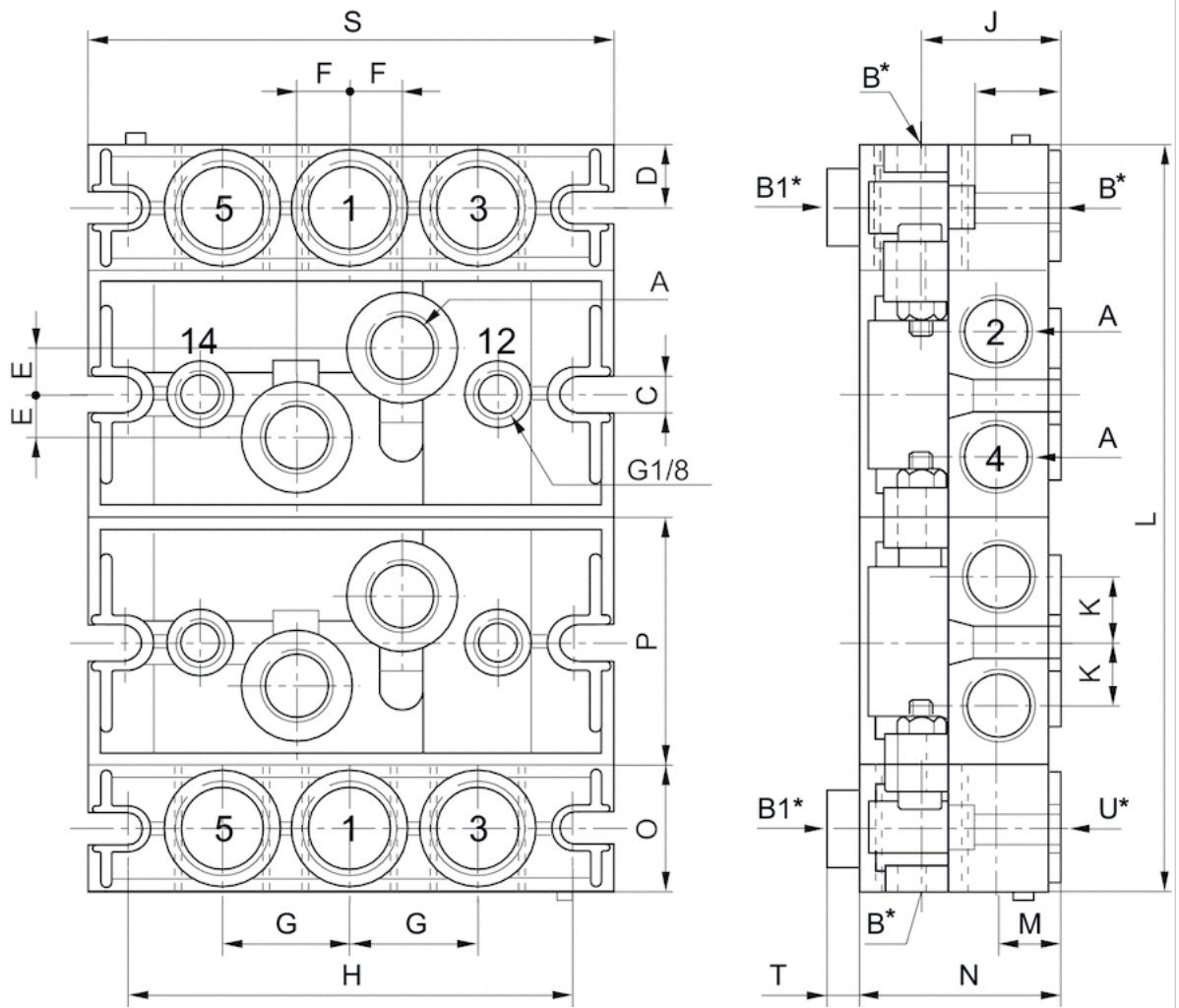
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



Dimensions

| Part No. | | A | B* | B1* | C | D | E | F | G | H | J | K | L |
|------------|-------|-----------|-----------|-----------|-----|------|----|----|----|-----|----|----|-------------|
| 5802510000 | ISO 2 | 2 x G 3/8 | 3 x G 1/2 | 3 x G 1/4 | 6.5 | 14.5 | 10 | 12 | 29 | 102 | 32 | 15 | n x 56 + 58 |

| M | N | O | P | R | S | T | U* |
|----|----|----|----|----|-----|---|-----------|
| 15 | 43 | 29 | 56 | 20 | 120 | 7 | 3 x G 1/2 |

n = number of subbases

*Dimensions B, B1, and U are prepared with threaded connections but must be drilled through as required for the desired porting configuration.

Transition plate

- standard ISO 5599-1
- Frame size ISO 1, ISO 2
- type G
- Can be assembled into blocks
- Reversed pressure supply permissible



| | |
|-------------------------------|---------------------|
| 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 |
| Exhaust (3,5) | uncollected exhaust |
| Exhaust type | Ports separated |
| Weight | 0,27 kg |

Technical data

Part No.

5802520000

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).

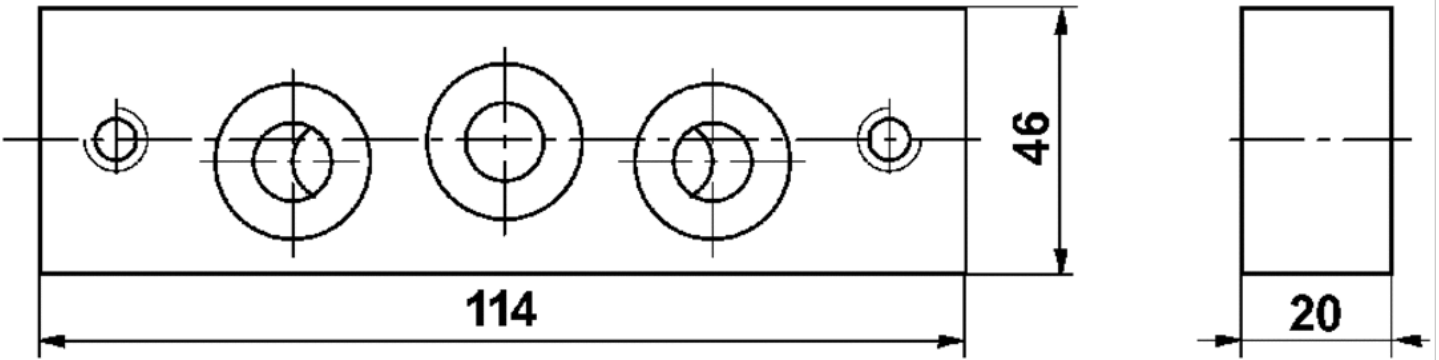
The transition plate is used for combining subbases of different sizes in the same manifold.

Technical information

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

Dimensions

Dimensions



Blanking piece

- standard ISO 5599-1

- type G



Standards

ISO 5599-1

Ambient temperature min./max.

-20 ... 70 °C

Weight

0,025 kg

Technical data

| Part No. | Accessory type |
|------------|----------------|
| 5802530000 | type G |

Technical information

| Material | |
|----------|--------------------------------|
| Housing | Brass |
| Seal | Acrylonitrile butadiene rubber |

Blanking plate

- standard ISO 5599-1

- Frame size ISO 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 |
| Weight | 0,1 kg |

Technical data

Part No.

5802870000

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).

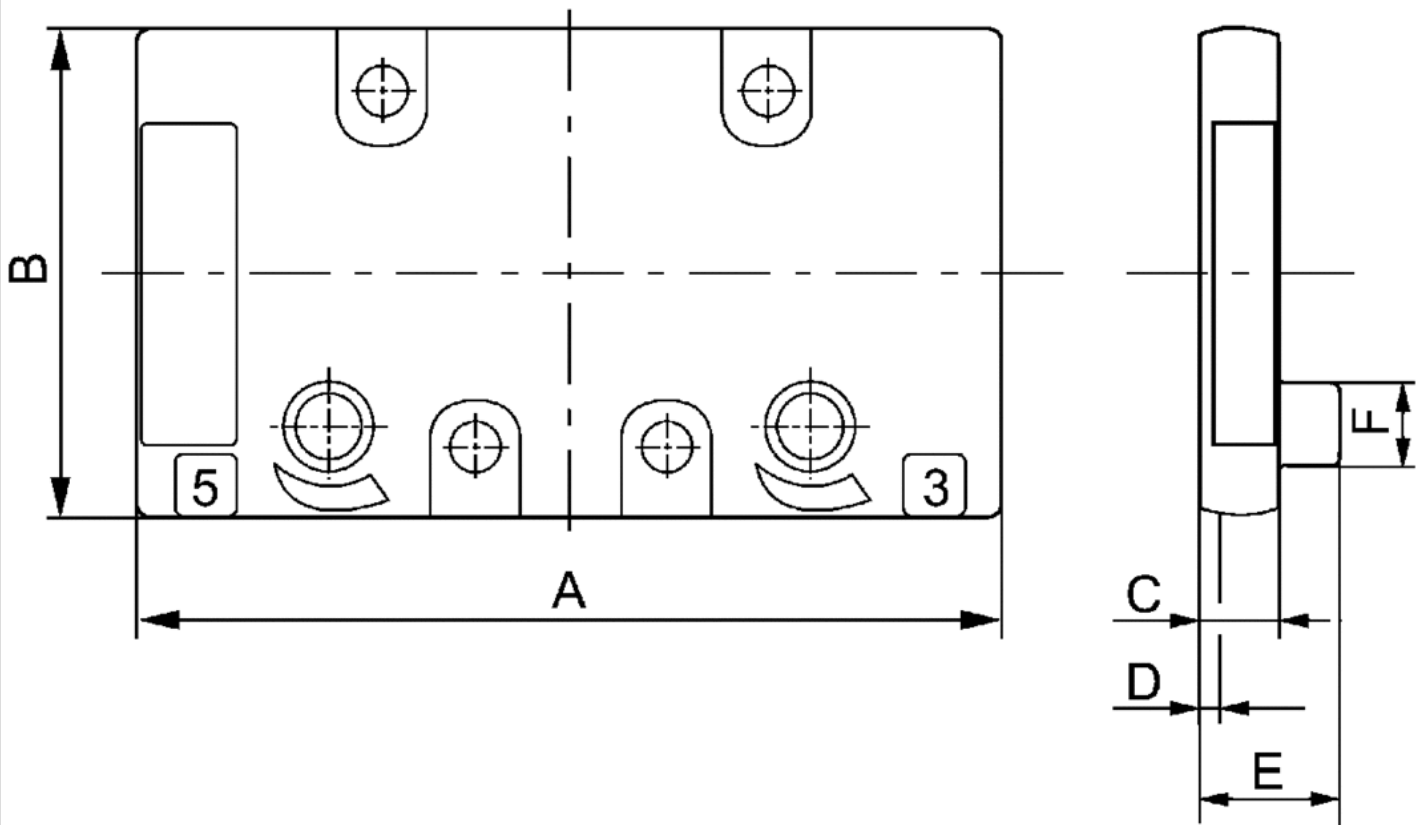
Technical information

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 |
|------------|------|------|---|---|---|---|--------|
| 5802870000 | 86.4 | 49.4 | 9 | 2 | - | - | 0,1 kg |

Blanking plate

- standard ISO 5599-1
- Frame size ISO 2



| | |
|-------------------------------|---------------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | -0,9 ... 16 bar |
| Ambient temperature min./max. | 0 ... 80 °C |
| Medium temperature min./max. | 0 ... 80 °C |
| Medium | Compressed air |
| Mounting screw | with hexagon socket |
| Weight | See table below |

Technical data

| Part No. | Type | Frame size | Weight |
|------------|----------------|------------|----------|
| 1825503176 | Blanking plate | ISO 2 | 0,229 kg |
| 1821A15032 | Gasket ISO 2 | - | - |

Scope of delivery incl. seal and mounting screws

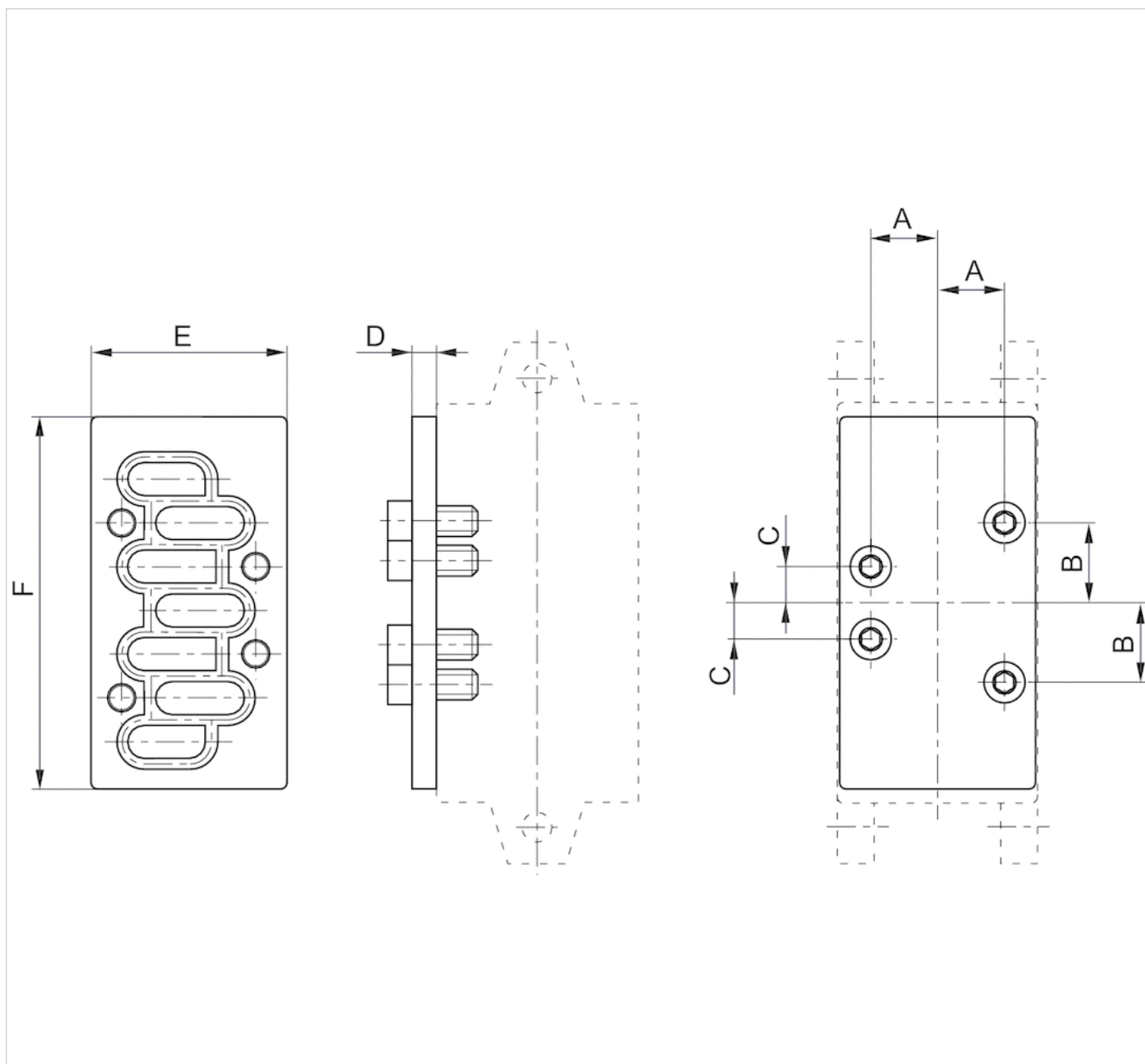
Technical information

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 | Aluminum Die-cast aluminum |
| Seal | Acrylonitrile butadiene rubber |

Dimensions



Dimensions

| Part No. | Frame size | A | B | C | D | E | F |
|------------|------------|----|----|----|----|----|-----|
| 1825503176 | ISO 2 | 19 | 24 | 12 | 15 | 54 | 100 |

Stop plate to exchange valve

- for 581
- size 2
- standard ISO 5599-1



| | |
|-------------------------------|------------------------------|
| standard | ISO 5599-1 |
| Ambient temperature min./max. | -10 ... 50 °C |
| Max. particle size | 50 µm |
| Oil content of compressed air | 40 ... 400 mg/m ³ |
| Weight | 0,329 kg |

Technical data

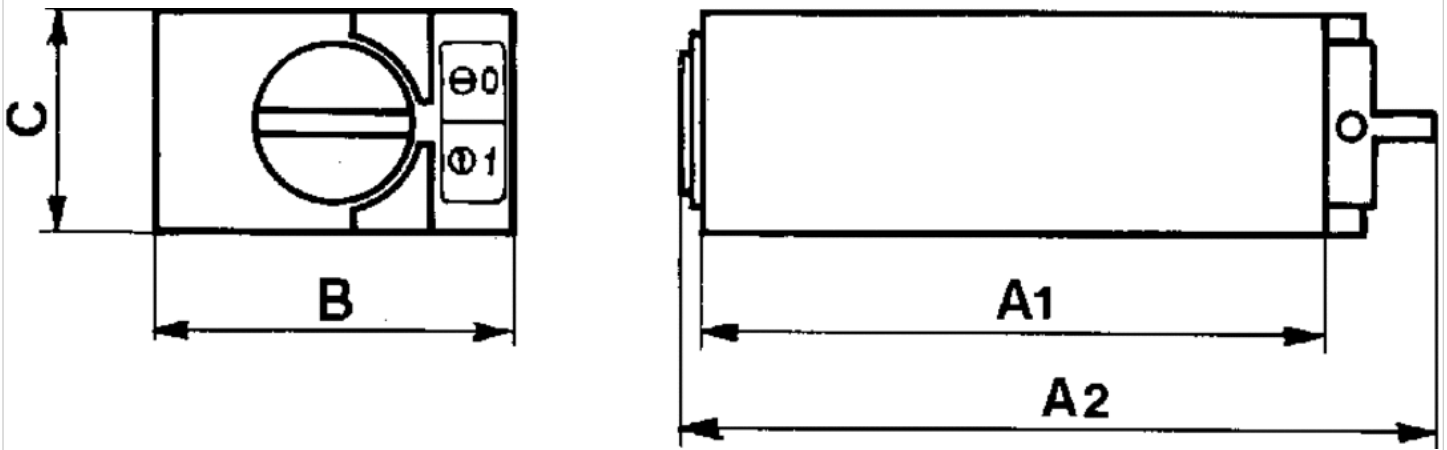
| Part No. |
|------------|
| 5802590000 |

Technical information

| Material | |
|----------|--------------------------|
| Housing | Aluminum, black anodized |

Dimensions

Dimensions



Dimensions

| Part No. | A1 | A2 | B | C |
|------------|----|-----|----|----|
| 5802590000 | 87 | 104 | 50 | 28 |





Pressure regulator

- Qn = 1050-1070 l/min
- standard ISO 5599-1
- Frame size ISO 2
- Controlled port 1 2 2, 4



| | |
|---------------------------------------|---|
| Working pressure min./max. | 12 bar |
| Adjustment range min./max. | 0,5 ... 8 bar |
| Ambient temperature min./max. | -15 ... 50 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 ... 5 mg/m ³ |
| Tightening torque for mounting screws | 5 Nm |
| Weight | See table below |
| | The delivered product may vary from that in the illustration. |

Technical data

| Part No. | | Frame size | Flow | Controlled port | Weight |
|------------|---|------------|------------|-----------------|---------|
| | | | Qn | | |
| R422103092 |  | ISO 2 | 1050 l/min | 1 | 1 kg |
| R422103093 |  | ISO 2 | 1070 l/min | 2 | 1,11 kg |
| R422103094 |  | ISO 2 | 1070 l/min | 2, 4 | 1,6 kg |
| R422103095 |  | ISO 2 | 1050 l/min | 1 | 1 kg |

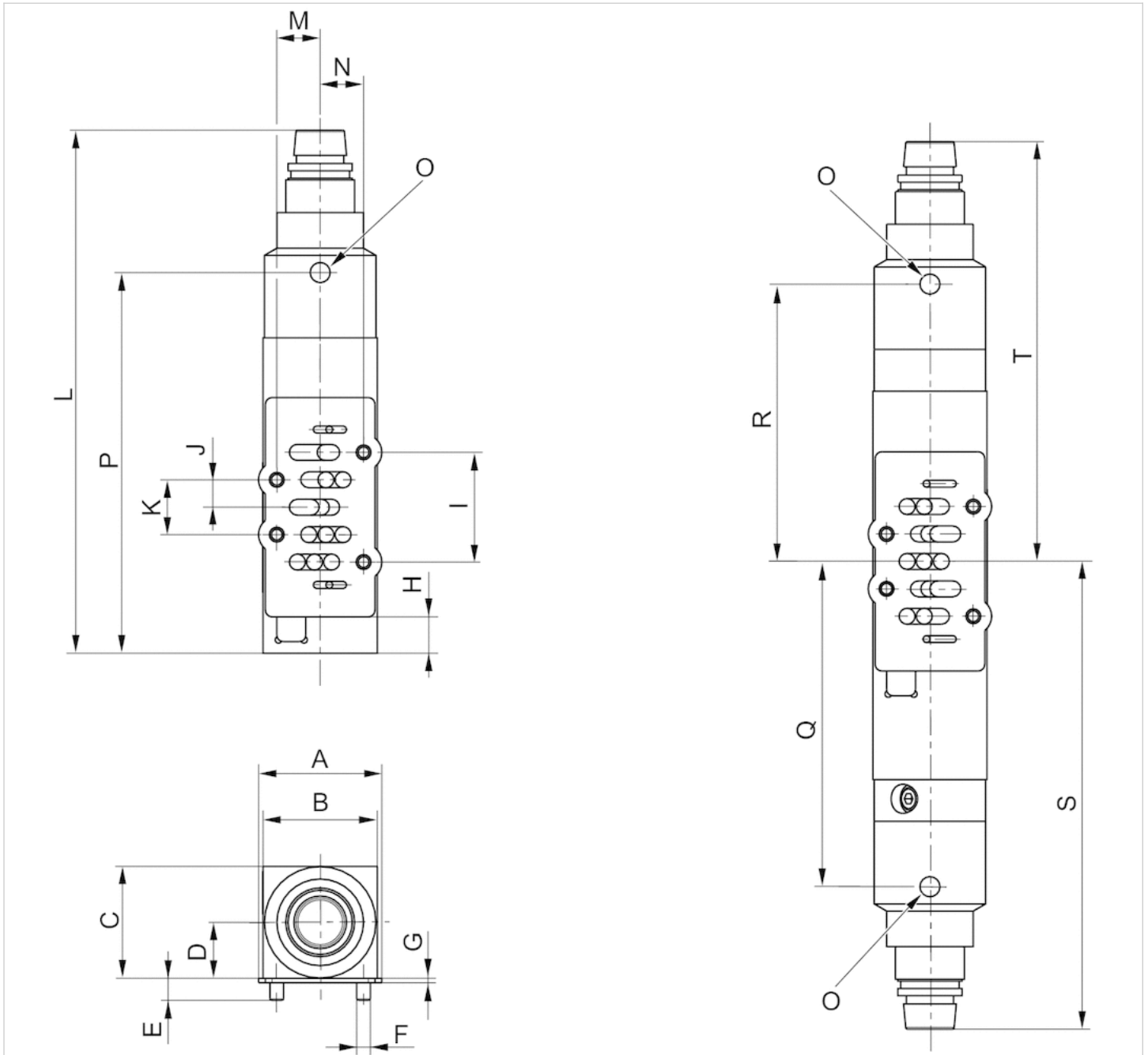
Scope of delivery incl. seal and mounting screws, Order pressure gauge separately, Nominal flow Qn at 6 bar and $\Delta p = 1$ bar .

Technical information

| Material | |
|----------|------------------|
| Housing | Aluminum |
| Seals | Butadiene rubber |

Dimensions

Dimensions



Dimensions

| Part No. | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R |
|------------|----|----|-------|-------|------|----|---|-------|----|----|----|--------|----|----|-------|--------|--------|--------|
| R422103092 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | 15.90 | 48 | 12 | 24 | 228.90 | 19 | 19 | G 1/8 | 166.58 | - | - |
| R422103093 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | 15.90 | 48 | 12 | 24 | 247.20 | 19 | 19 | G 1/8 | 183.84 | - | - |
| R422103094 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | - | 48 | 12 | 24 | - | 19 | 19 | G 1/8 | - | 142.34 | 121.34 |
| R422103095 | 54 | 50 | 48.90 | 24.45 | 9.70 | M6 | 2 | - | 48 | 12 | 24 | - | 19 | 19 | G 1/8 | - | - | - |

| S | T |
|---|---|
| - | - |
| - | - |

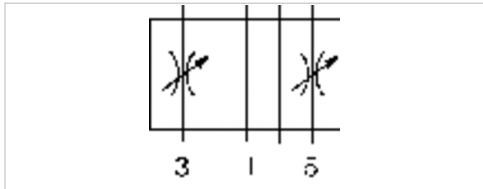
| S | T |
|--------|--------|
| 204.66 | 183.66 |
| - | - |

Throttle plate

- standard ISO 5599-1
- Frame size ISO 2



| | |
|-------------------------------|----------------|
| Standards | ISO 5599-1 |
| Working pressure min./max. | 0 ... 16 bar |
| Ambient temperature min./max. | 0 ... 80 °C |
| Medium temperature min./max. | 0 ... 80 °C |
| Medium | Compressed air |
| Weight | 0,444 kg |



Technical data

| |
|------------|
| Part No. |
| 0821201024 |

Scope of delivery incl. seal and mounting screws

Technical information

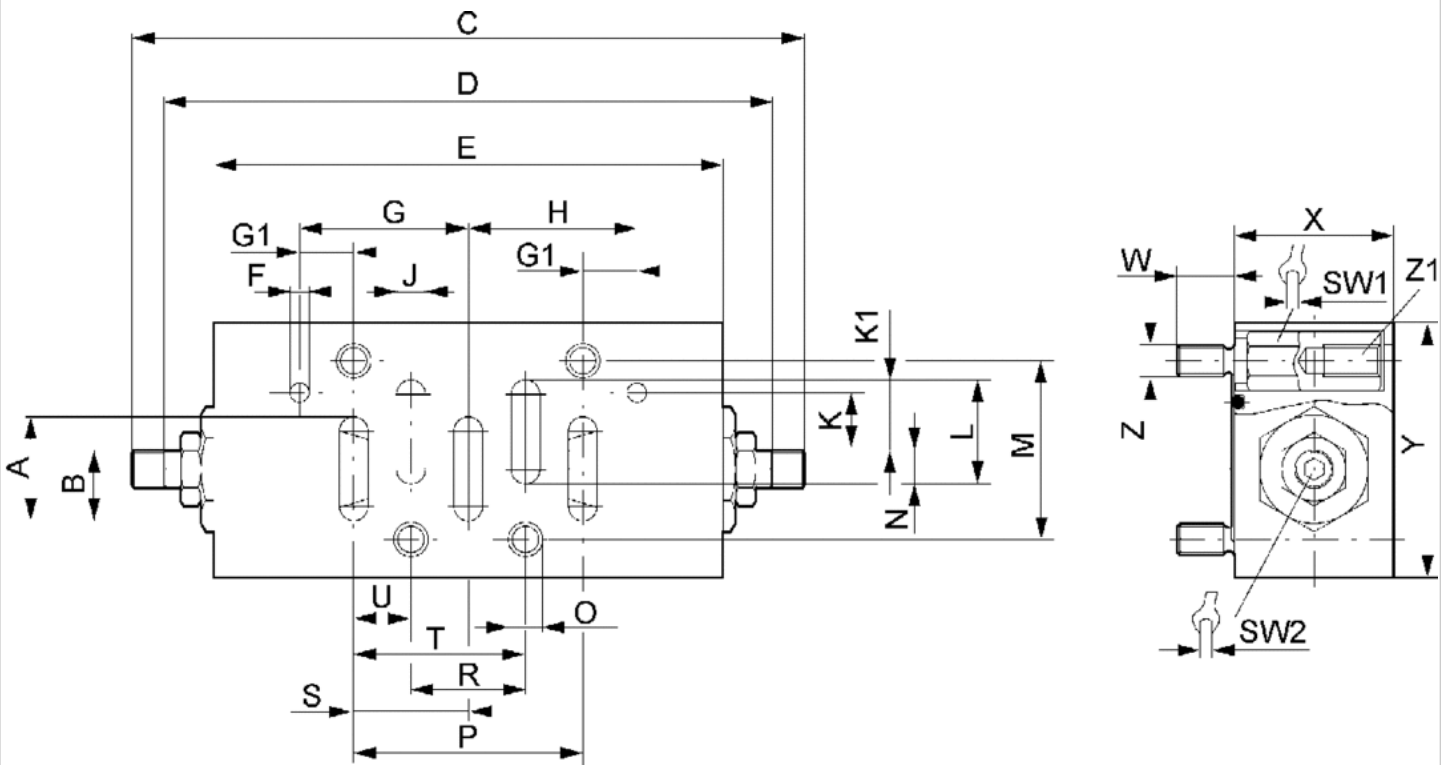
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
 The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
 The oil content of compressed air must remain constant during the life cycle.
 Use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

Dimensions

Dimensions



Dimensions

| Part No. | A | B | C | D | E | F | G | G1 | H | J | K | K1 | L | M | N | O | P | R | S | SW1 | SW2 | T | U |
|------------|----|------|-------|-------|-----|---|----|----|----|---|----|------|----|----|-----|-----|----|----|----|-----|-----|----|----|
| 0821201024 | 22 | 13,5 | 128.6 | 118.6 | 102 | 3 | 34 | 10 | 34 | 7 | 10 | 13.5 | 22 | 38 | 8.5 | 6.2 | 48 | 24 | 24 | 9 | 3 | 36 | 12 |

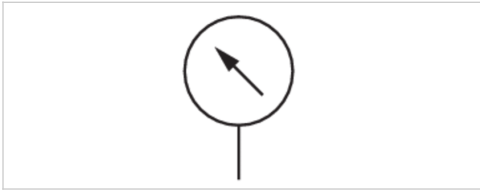
| W | X | Y | Z | Weight | Z1 |
|---|----|----|----|----------|-------|
| 9 | 25 | 55 | M6 | 0,444 kg | M6-10 |

Pressure gauge, Series PG1-SAS

- Back port
- Background color Black
- Scale color White, Grey
- Viewing window Polystyrene
- Units bar
- Units psi



| | |
|--------------------------------|-----------------------------|
| Type | Bourdon tube pressure gauge |
| Standardization | EN 837-1 |
| Class | 2,5 |
| Ambient temperature min./max. | -40 ... 60 °C |
| Medium | Compressed air |
| Main scale unit (outside) | bar |
| Main scale color (outside) | White |
| Secondary scale unit (inside) | psi |
| Secondary scale color (inside) | Grey |
| Background color | Black |
| Pointer color | White |
| Weight | 0,08 kg |



Technical data

| Part No. | Compressed air connection | Nominal diameter | Range of application | Display range | Operating pressure | Scale value |
|------------|---------------------------|------------------|----------------------|---------------|--------------------|-------------|
| R412003857 | G 1/8 | 40 mm | 0 bar ... 8 | 0 bar ... 10 | 0 ... 10 bar | 0,2 |

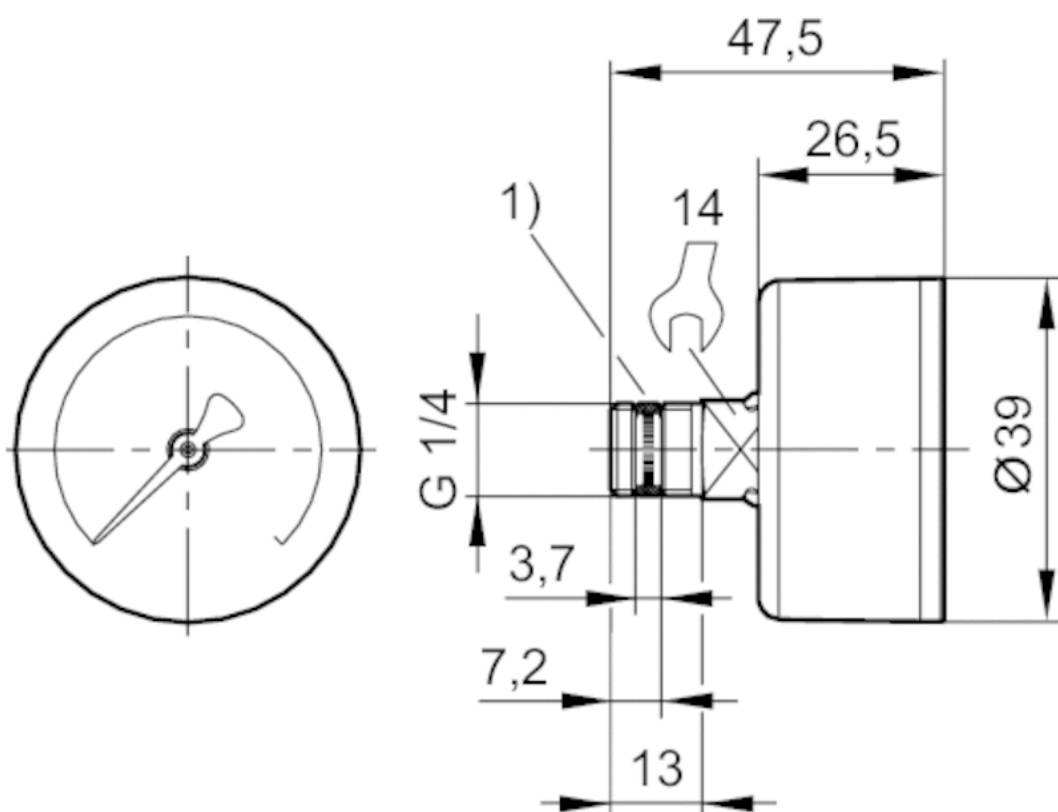
| Part No. | Fig. |
|------------|--------|
| R412003857 | Fig. 4 |

Technical information

| Material | |
|----------------|---------------------------------|
| Housing | Acrylonitrile butadiene styrene |
| Thread | Brass |
| Viewing window | Polystyrene |
| Seal | Polytetrafluorethylene |

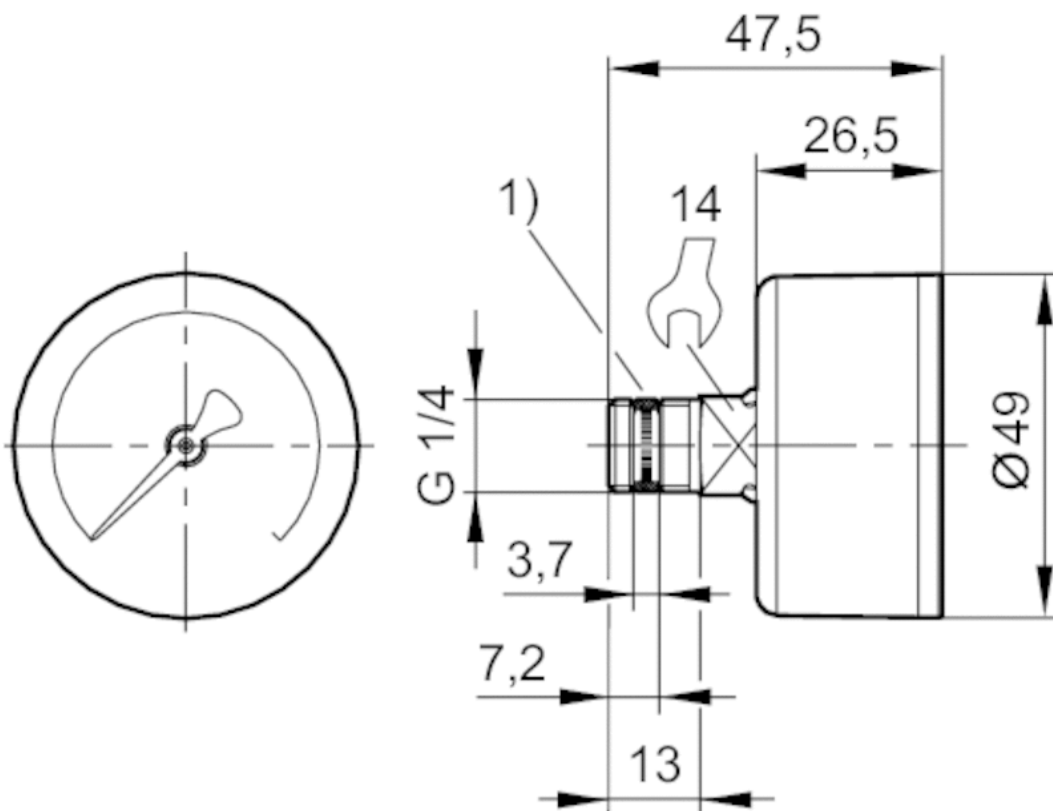
Dimensions

Dimensions in mm, Fig. 1



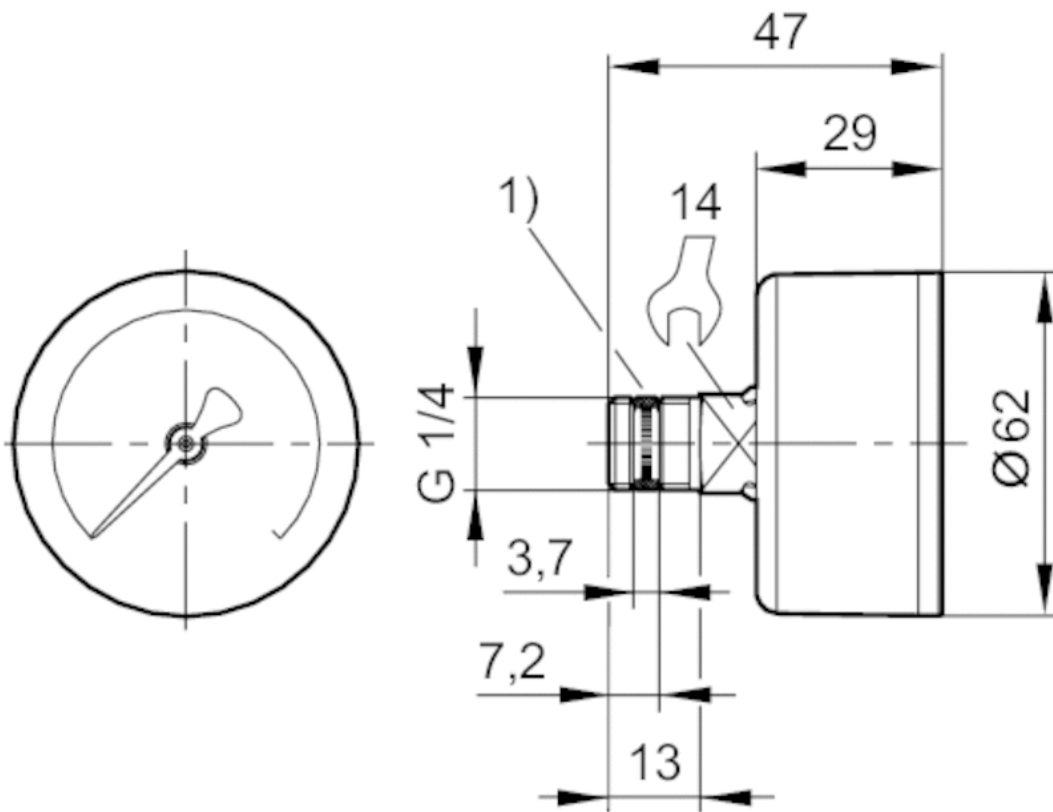
1) Gasket thread

Dimensions in mm, Fig. 2



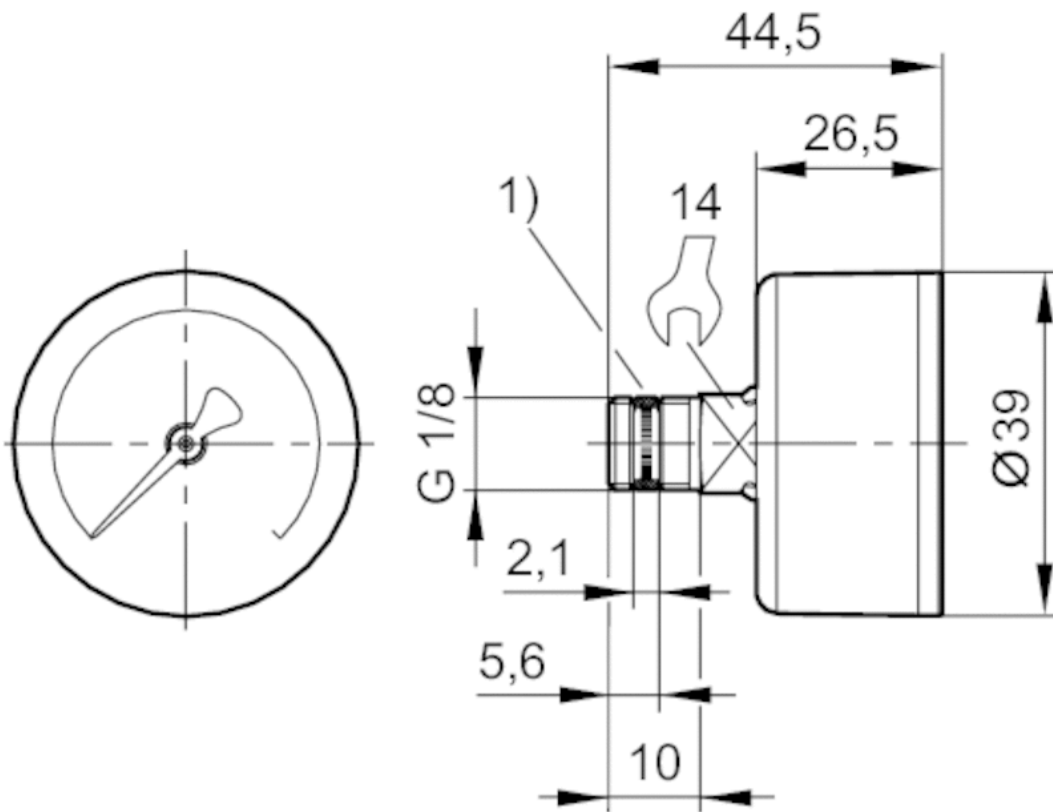
1) Gasket thread

Dimensions in mm, Fig. 3



1) Gasket thread

Dimensions in mm, Fig. 4



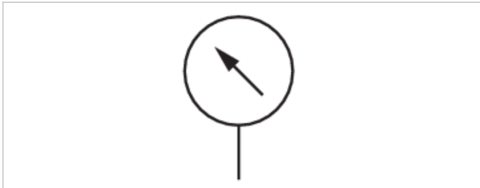
1) Gasket thread

Pressure gauge, Series PG1-ROU

- Port on bottom
- Background color Black
- Scale color White, Red
- Viewing window Polystyrene
- Units bar
- Units psi



| | |
|--------------------------------|-----------------------------|
| Type | Bourdon tube pressure gauge |
| Standardization | EN 837-1 |
| Class | 1,6 |
| Ambient temperature min./max. | -40 ... 60 °C |
| Medium | Compressed air |
| Main scale unit (outside) | bar |
| Main scale color (outside) | White |
| Secondary scale unit (inside) | psi |
| Secondary scale color (inside) | Red |
| Background color | Black |
| Pointer color | White |



Technical data

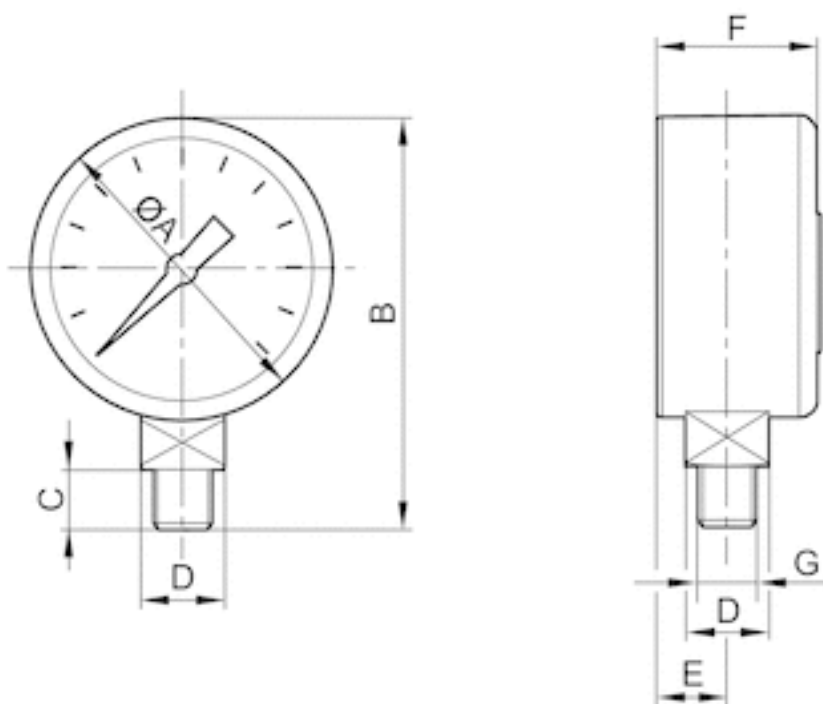
| Part No. | Compressed air connection | Nominal diameter | Range of application | Display range | Operating pressure | Scale value |
|------------|---------------------------|------------------|----------------------|---------------|--------------------|-------------|
| 8901703200 | R 1/8 | 50 mm | 0 ... 10 | 0 bar ... 12 | 0 ... 12 bar | 0,2 |

Technical information

| Material | |
|----------------|---------------------------------|
| Housing | Acrylonitrile butadiene styrene |
| Thread | Brass |
| Viewing window | Polystyrene |

Dimensions

Dimensions



Dimensions in mm

| Compressed air connection | Nominal diameter | $\varnothing A$ | B | C | D | F | E |
|---------------------------|------------------|-----------------|------|----|------|------|----|
| R 1/8 | 50 mm | 50 | 66.5 | 10 | SW14 | 27,5 | 10 |

throttle insert for flow control in 3/5

- for 581

- size 2



Weight

0,025 kg

Technical data

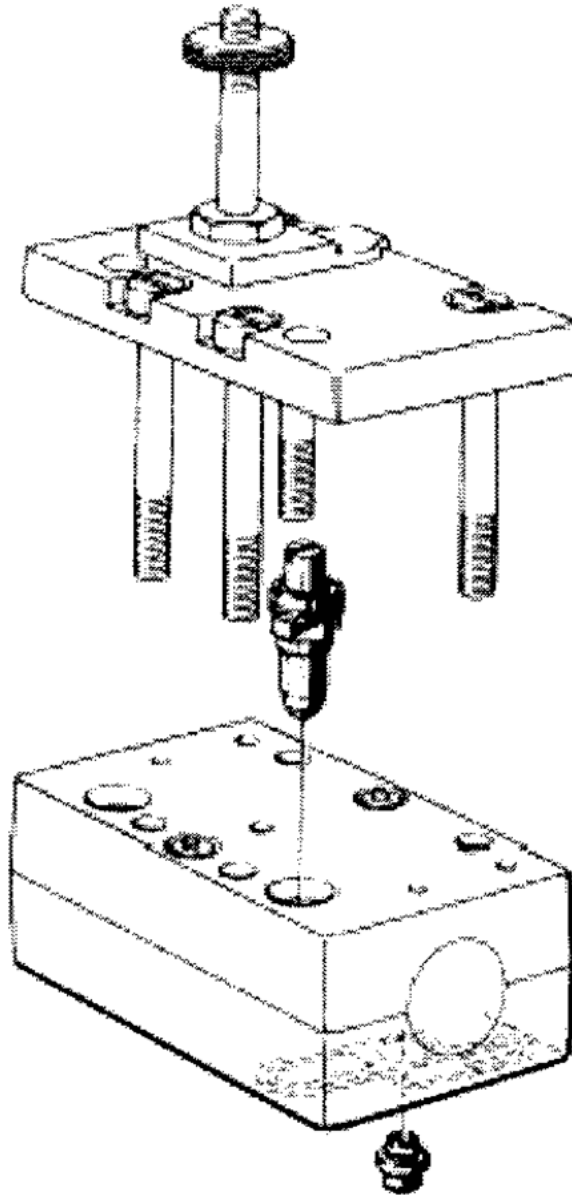
Part No.

5812001000

delivered in pairs incl. plug set

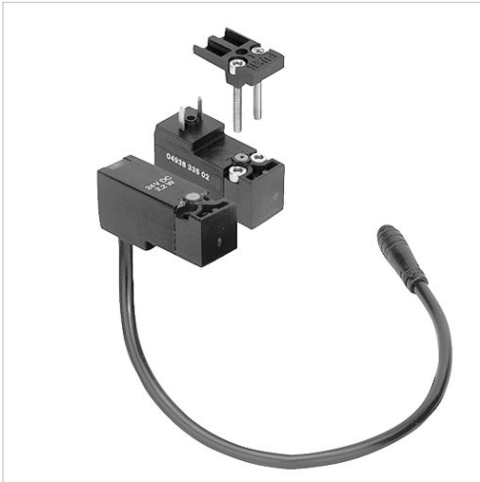
Dimensions

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) |

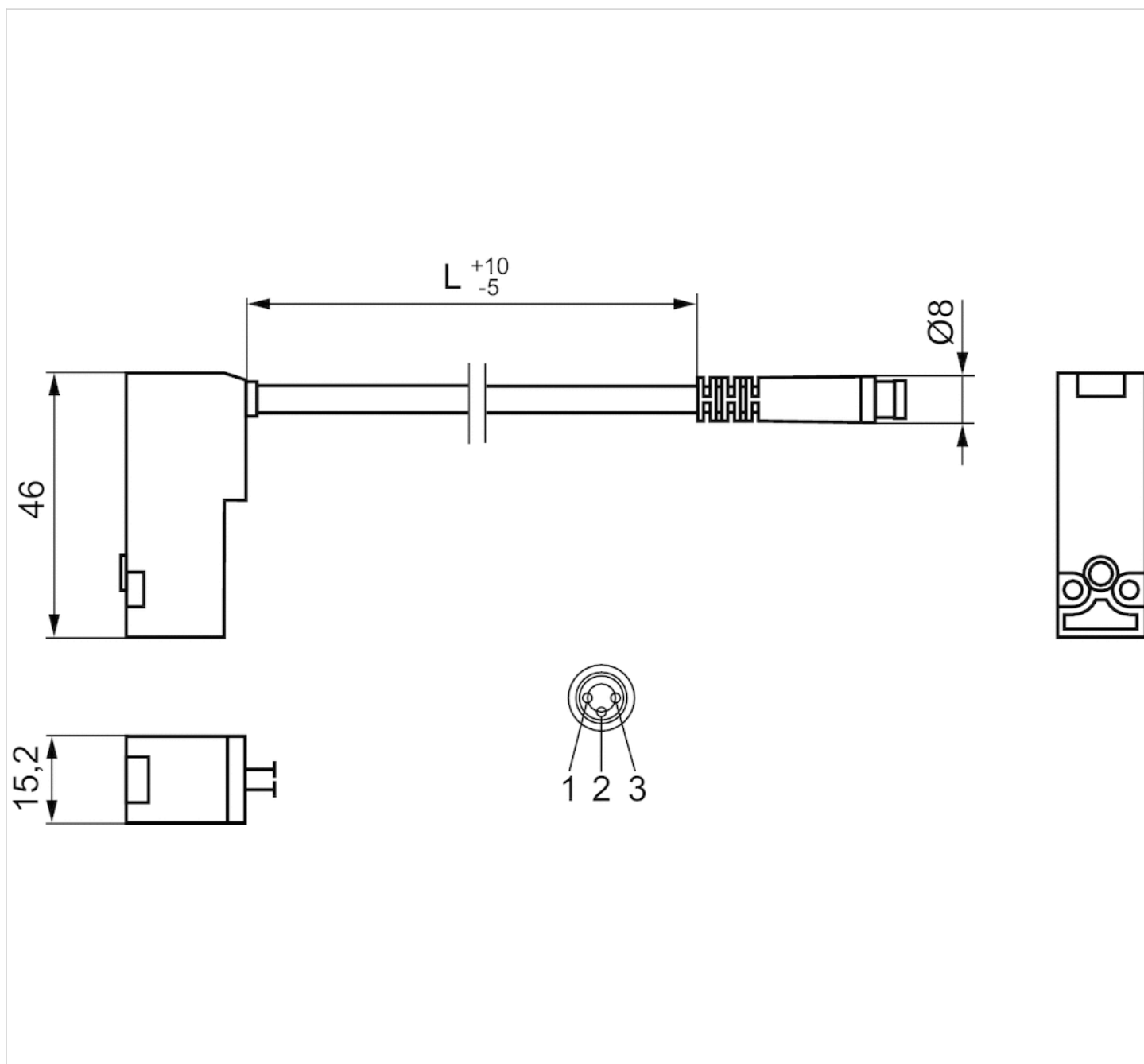
1) For valve plug connectors

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

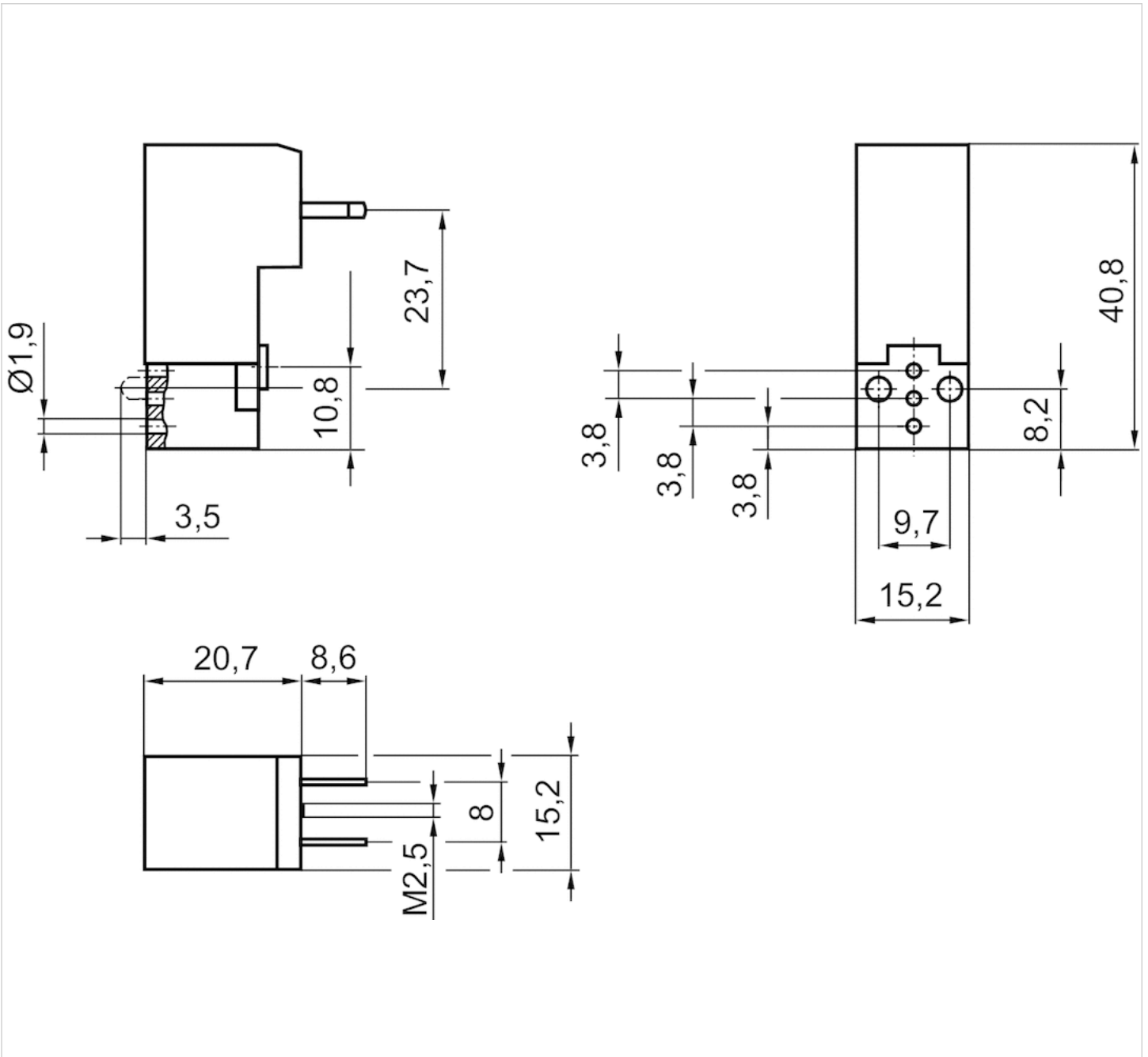
Fig. 1



Pin assignment

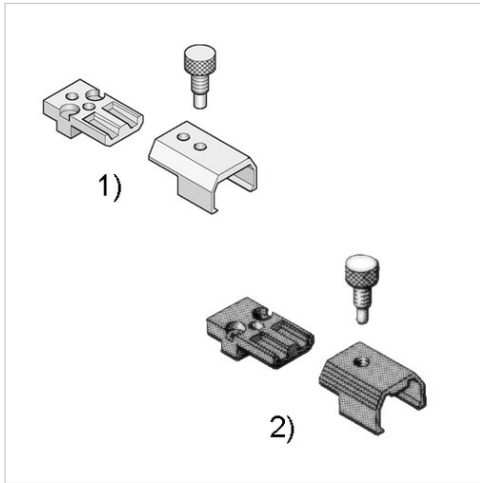
- 1) +24 V
- 2) ground
- 3) 0 V

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

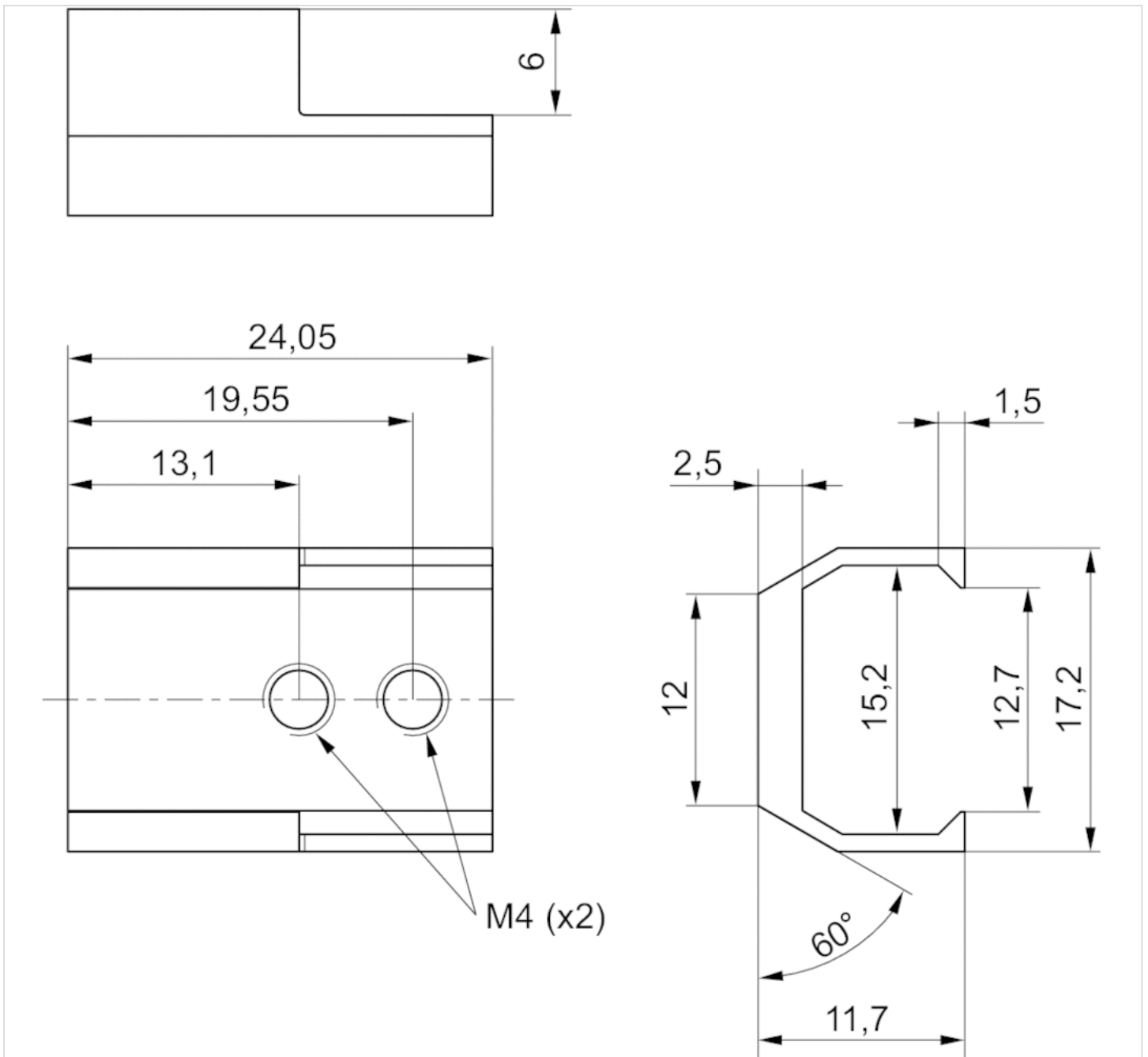
Part No.

0493835718

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

Dimensions

Dimensions

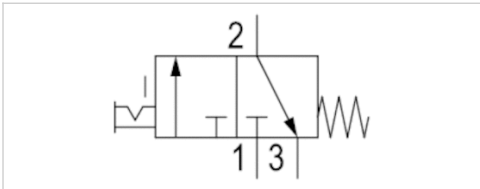


Pilot valve

- 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 | - | - |

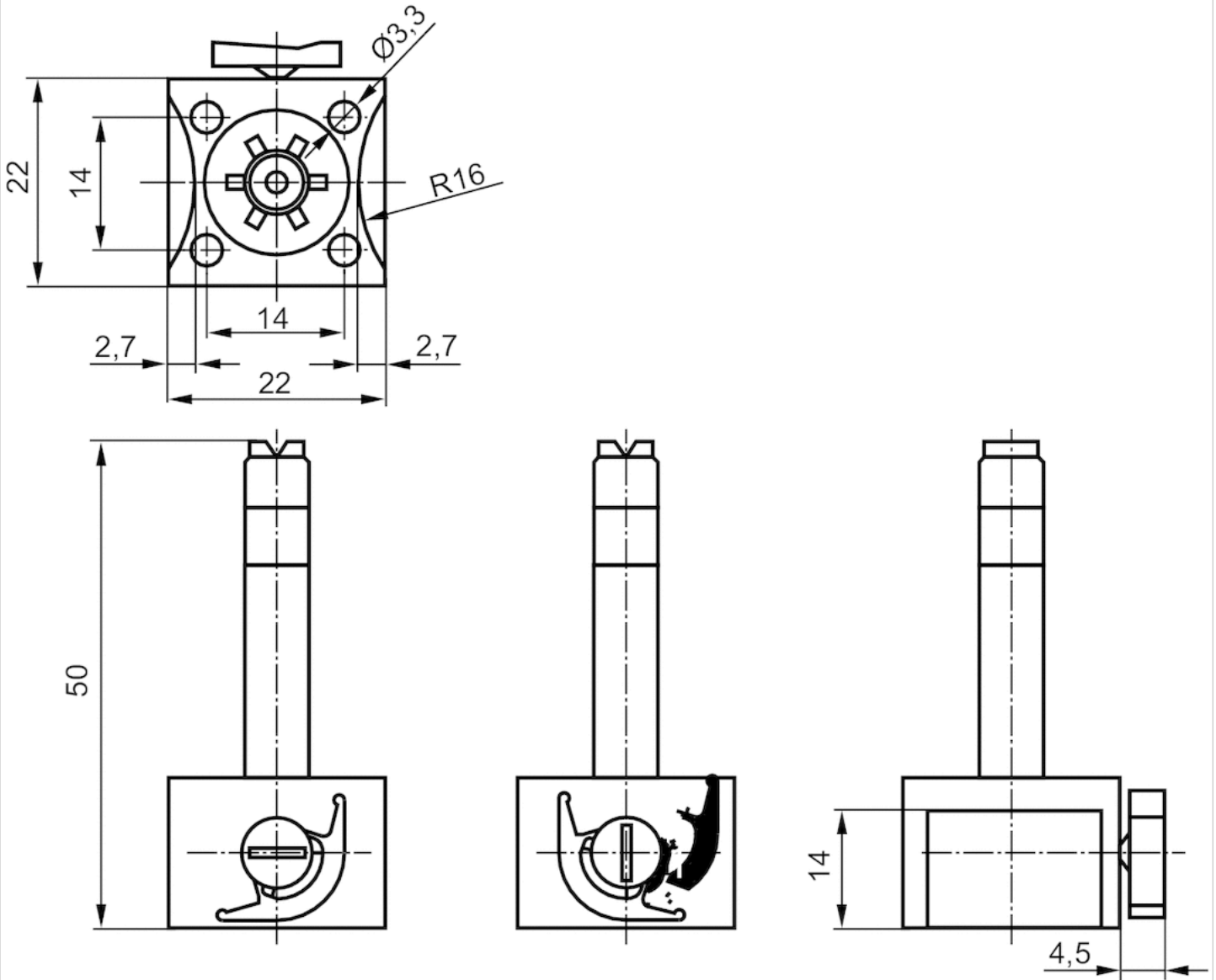
| Part No. | Power consumption DC | Power consumption | Weight |
|------------|----------------------|-----------------------|----------|
| 0493818805 | 5 W | - | 0,031 kg |
| 0493818902 | 2 W | Low power consumption | 0,03 kg |

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 | - |

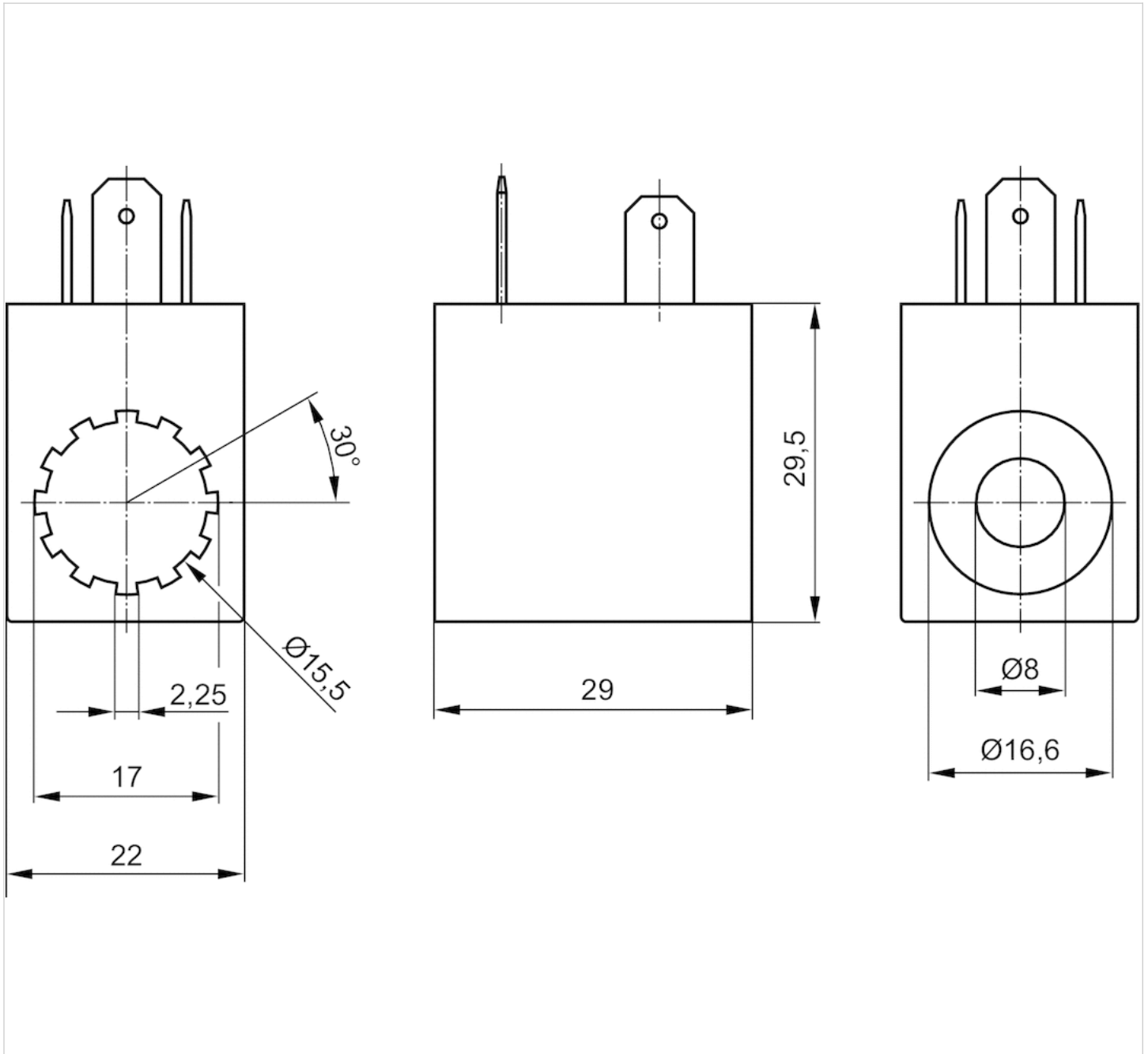
| Part No. | Voltage tolerance | Power consumption | Holding power | Switch-on power |
|------------|-------------------|-------------------|---------------|-----------------|
| | AC 50 Hz | DC | AC 50 Hz | AC 50 Hz |
| 0498317405 | - | 5 W | - | - |
| 0498317502 | - | 5 W | - | - |
| 0498318800 | - | 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!

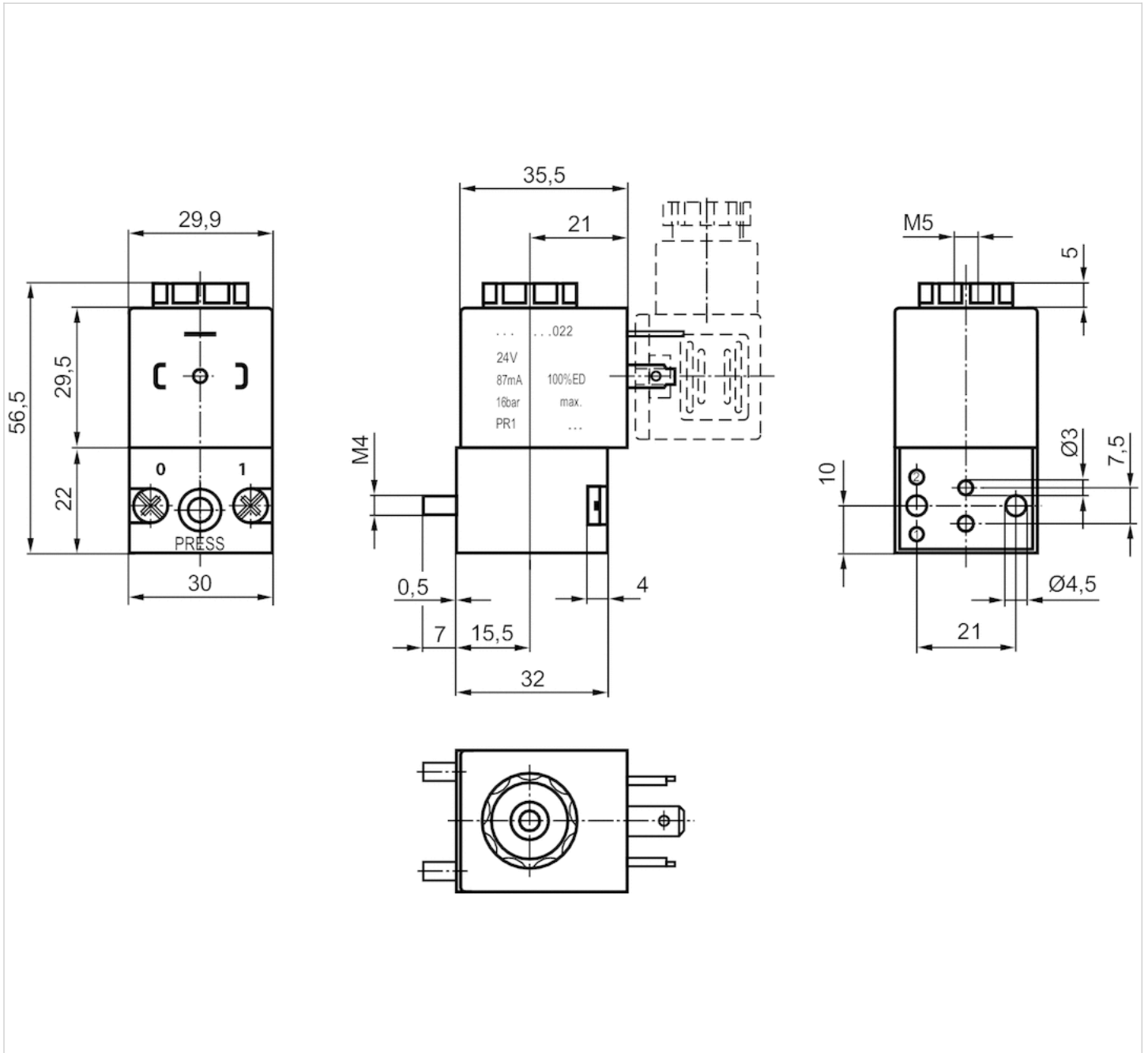
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

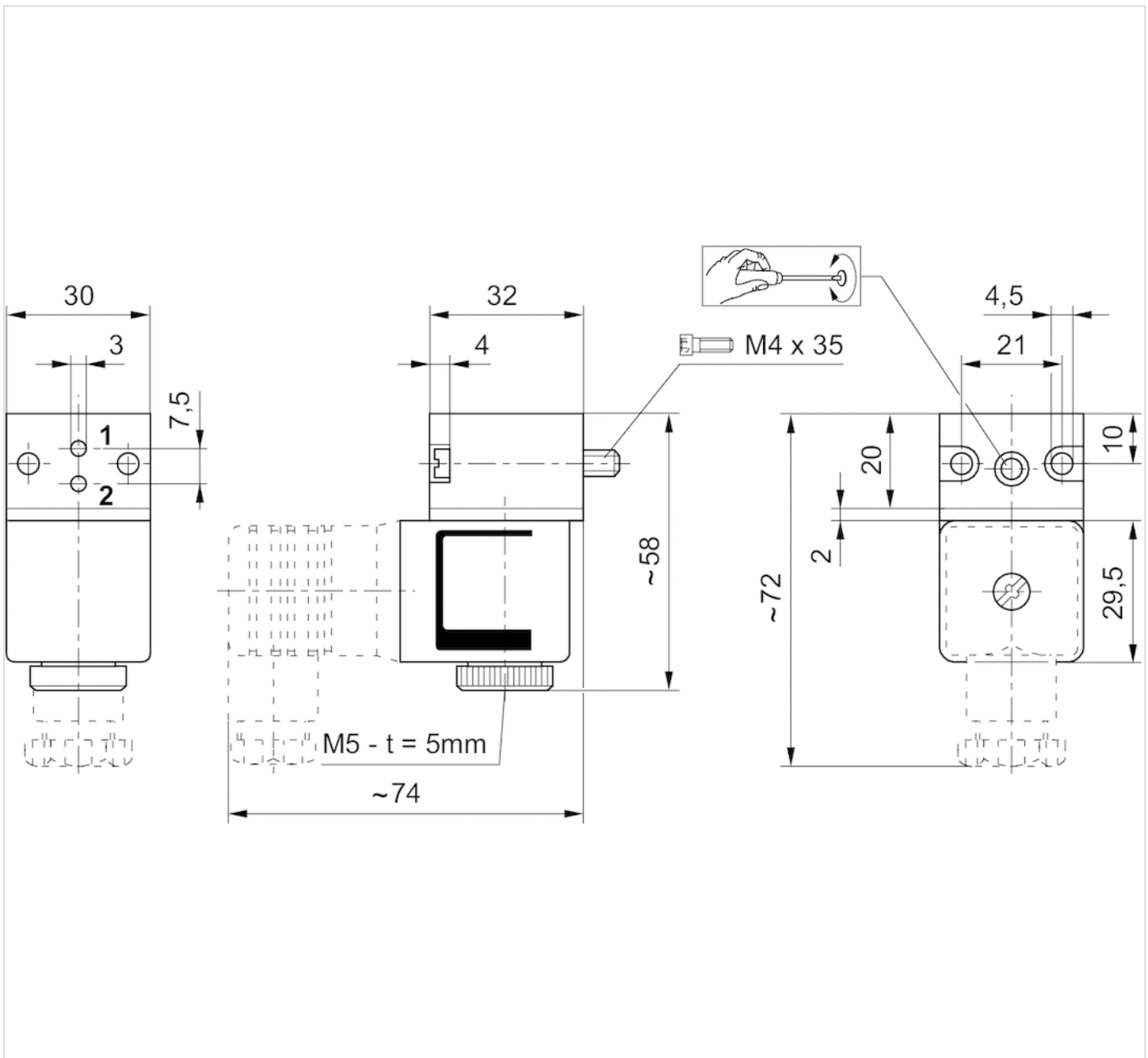
Technical information

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

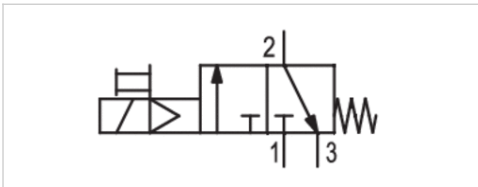
Electrically

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!

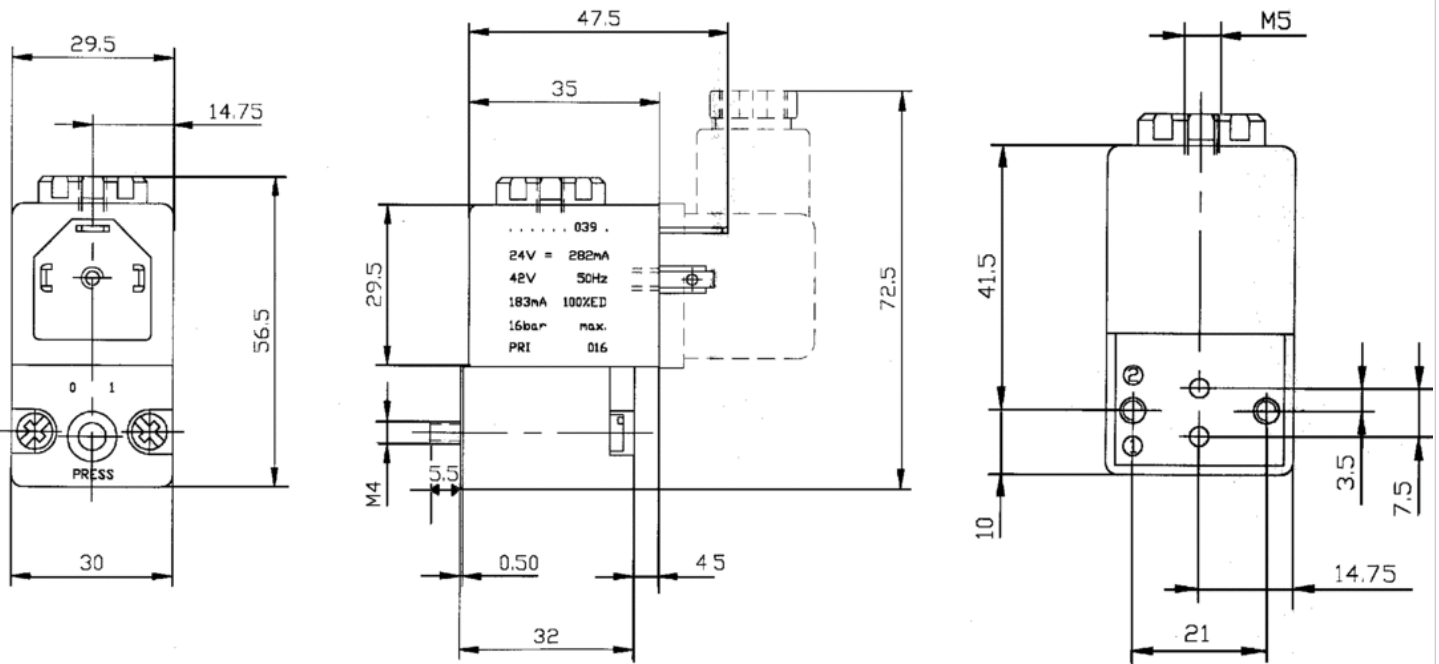
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

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).

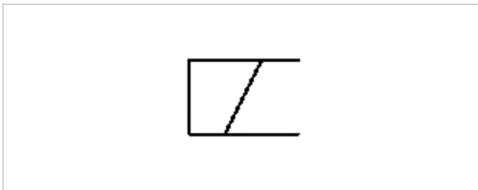
Dimensions

Dimensions



Coil, Series CO1

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



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

Technical data

| Part No. | 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 | - | - |

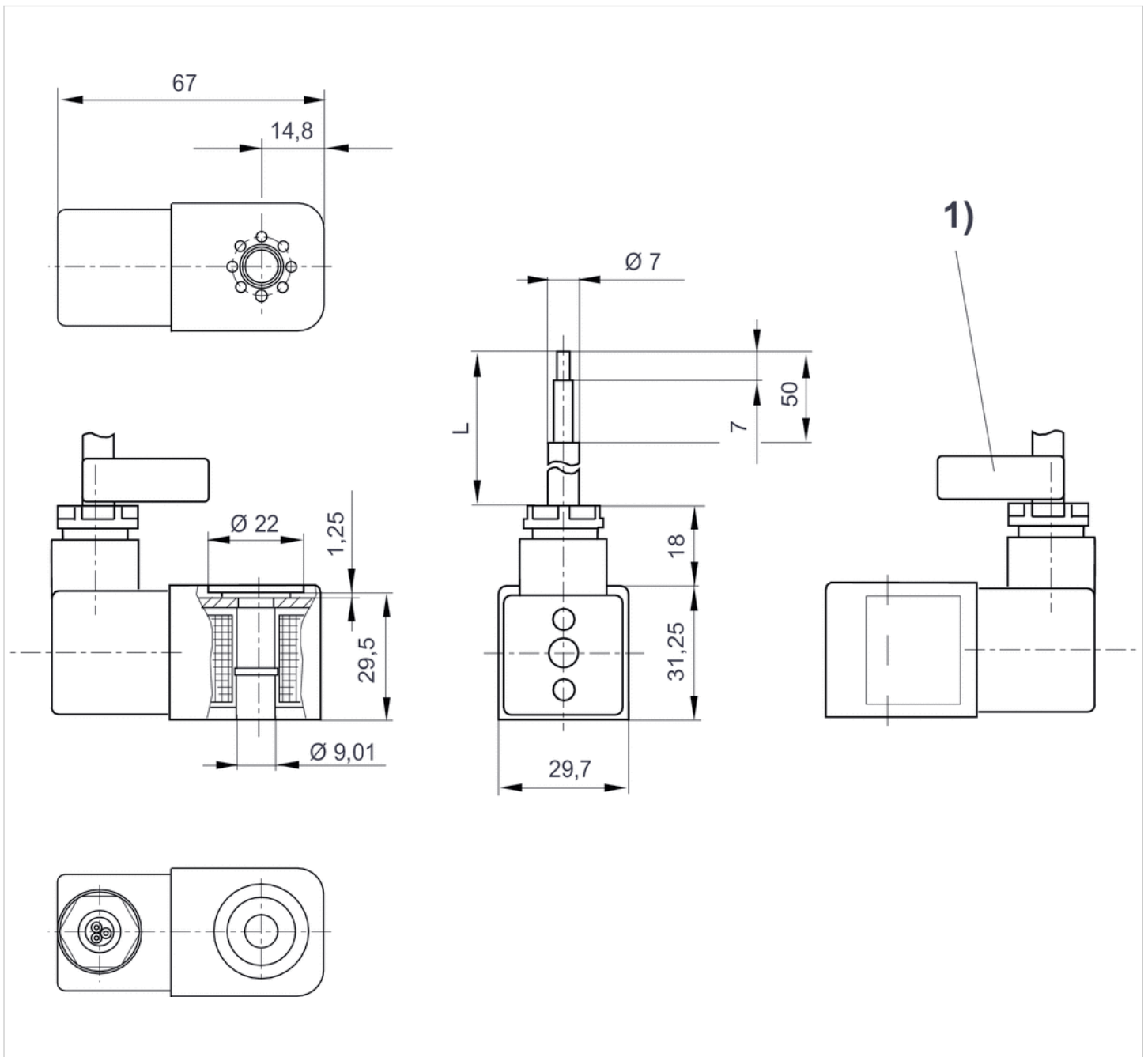
| Part No. | Voltage tolerance | | Power consumption | | Holding power | |
|------------|-------------------|-------------|-------------------|----------|---------------|----------|
| | DC | AC 50 Hz | DC | AC 50 Hz | DC | AC 50 Hz |
| 1827414297 | - | -10% / +10% | - | 3 VA | - | 3 VA |
| 1827414298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

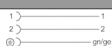






- unshielded

- 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

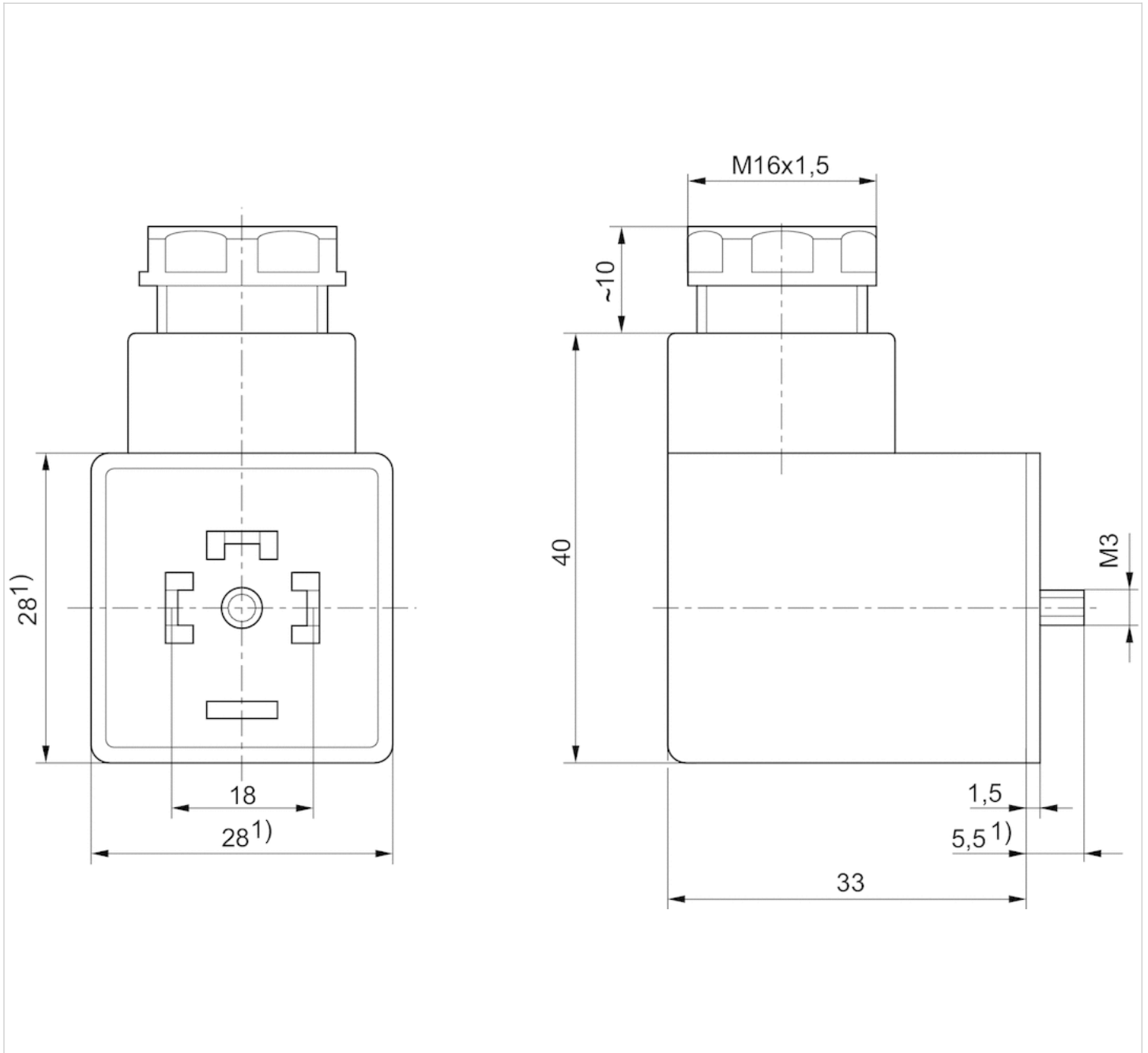
Material

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

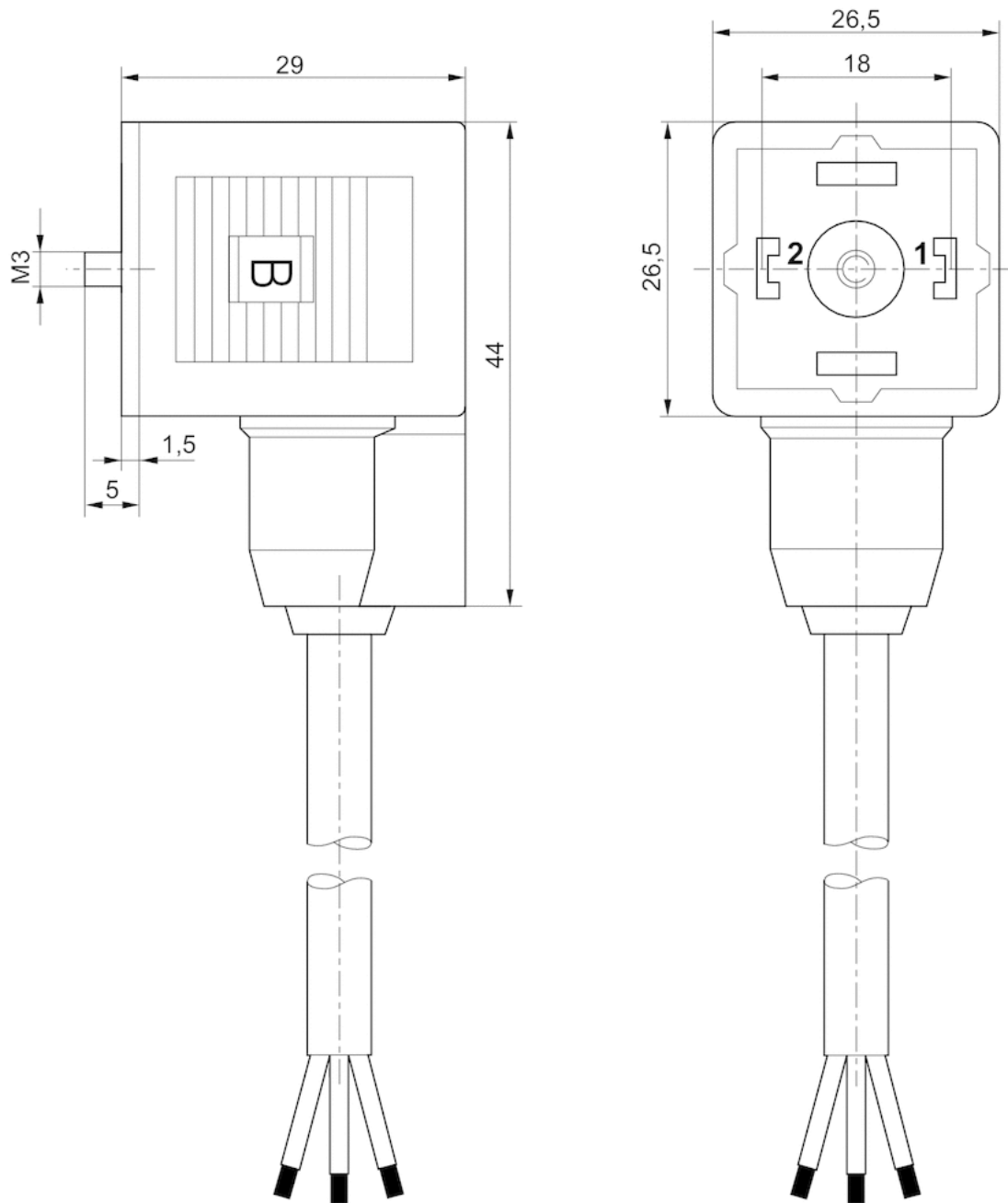
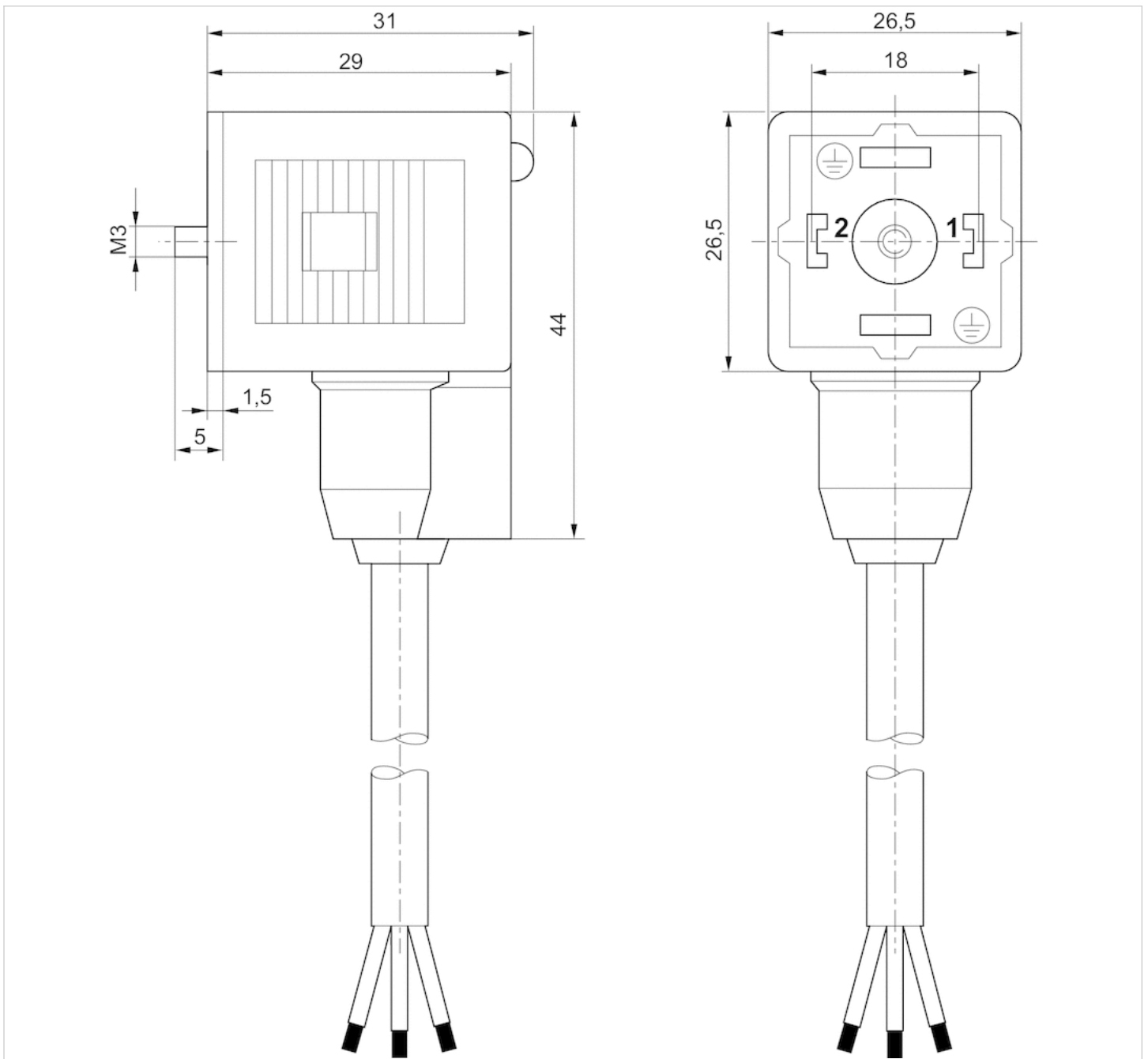


Fig. 2



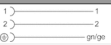

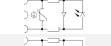

Valve plug connector, series CON-VP

- 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

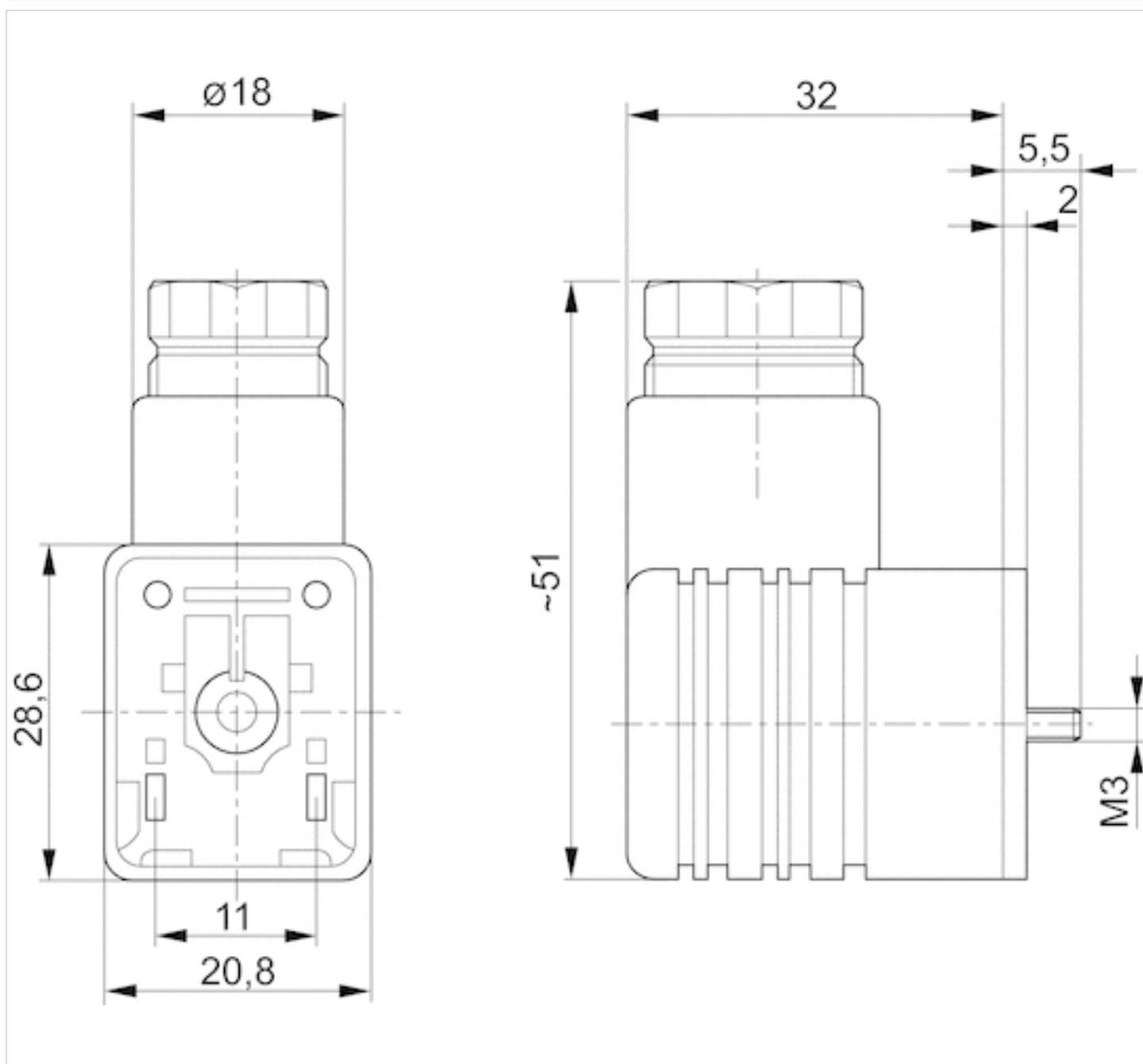
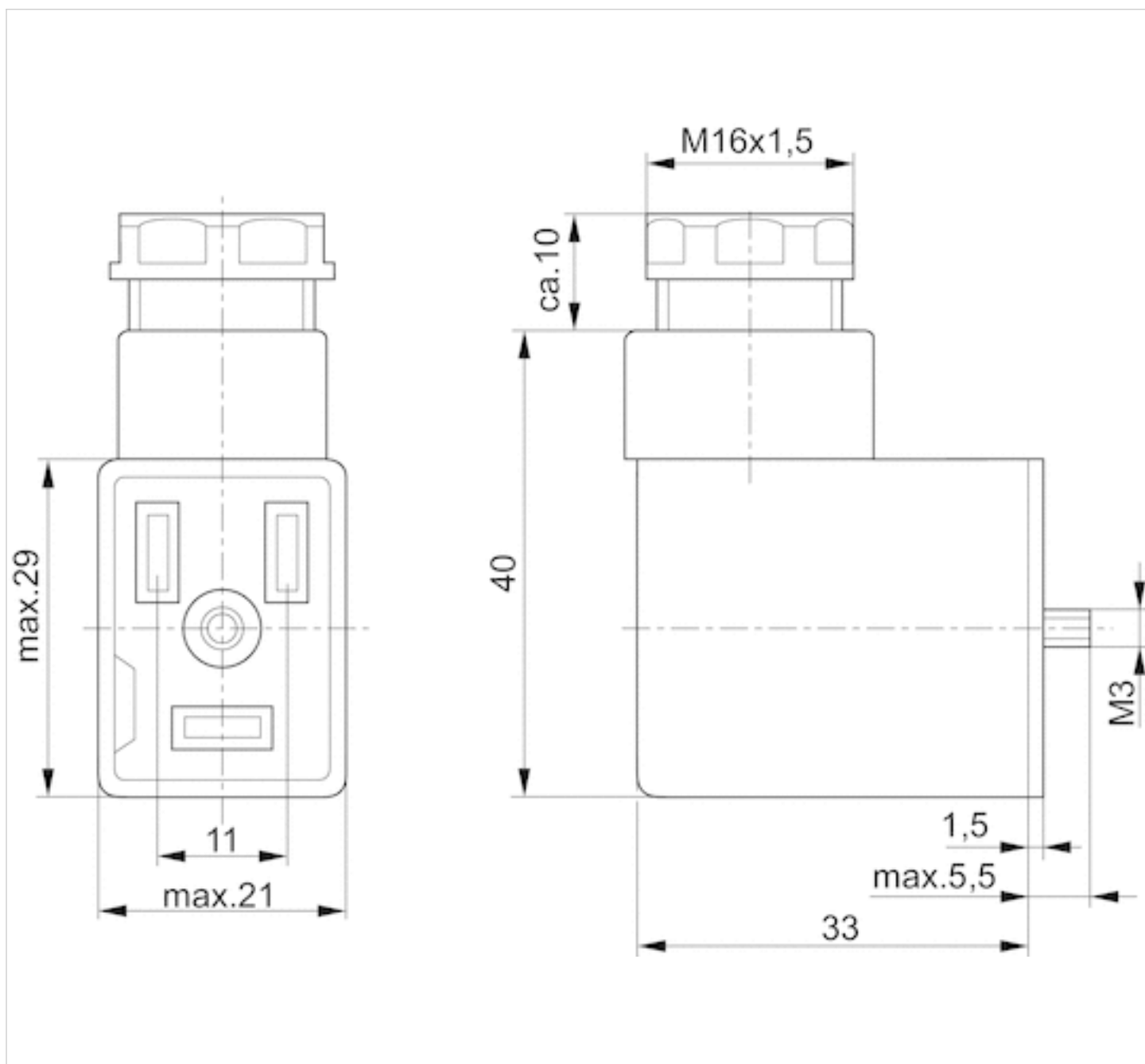


Fig. 2

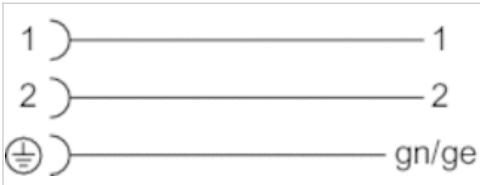


Valve plug connector, series CON-VP

- 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

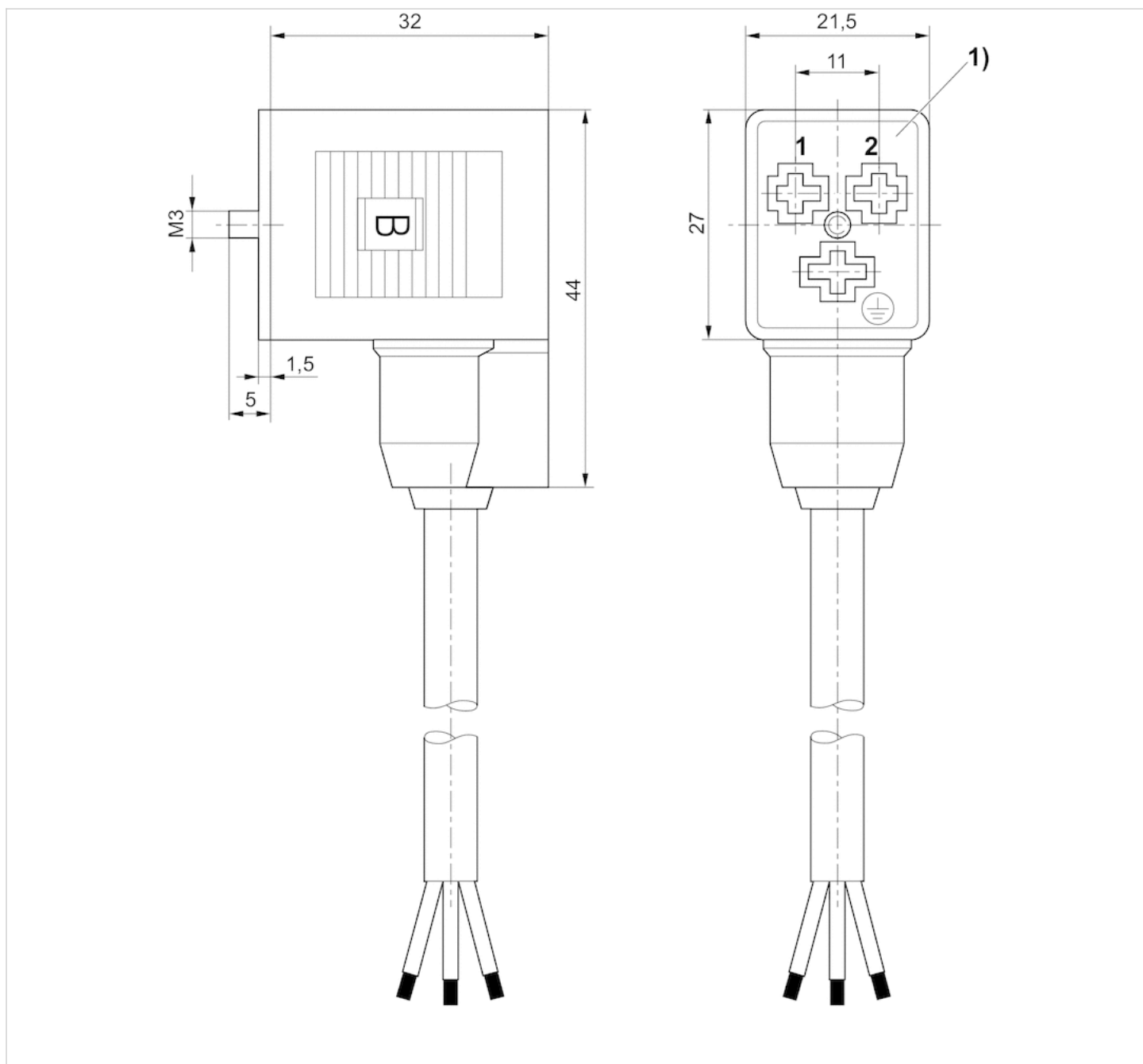
For security reasons, the valve plug connector must be plugged properly and centrally.
The specified protection class is only valid in assembled and tested state.

Technical information

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

Dimensions

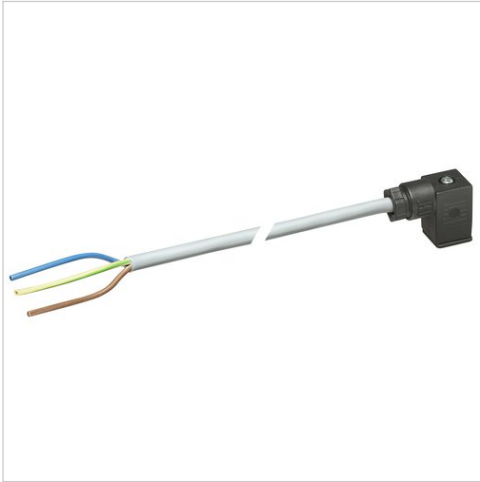
Dimensions



1) 0° female insert





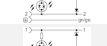

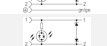
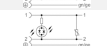
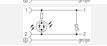

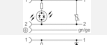
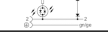

Valve plug connector, series CON-VP

- Socket form C 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 | Max. current | Protective circuit | Contact assignment |
|------------|---|---------------------|--------------|--------------------|--------------------|
| 1834484212 |  | 230 V AC/DC | 6 A | - | 2+E |
| 1834484213 |  | 230 V AC/DC | 6 A | - | 2+E |
| 1834484214 |  | 230 V AC/DC | 6 A | - | 2+E |
| 1834484215 |  | 230 V AC/DC | 6 A | - | 2+E |
| 1834484204 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |
| 1834484205 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |
| 1834484206 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |
| 1834484207 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |
| 1834484208 |  | 230 V AC/DC | 6 A | Varistor | 2+E |
| 1834484209 |  | 230 V AC/DC | 6 A | Varistor | 2+E |
| 1834484210 |  | 230 V AC/DC | 6 A | Varistor | 2+E |
| 1834484211 |  | 230 V AC/DC | 6 A | Varistor | 2+E |
| 1834484236 |  | 24 V AC/DC | 6 A | Z-diode | 2+E |

| Part No. | LED status display | Number of wires | Cable-Ø | Cable length | Weight | Fig. | |
|------------|--------------------|-----------------|---------|--------------|----------|--------|----|
| 1834484212 | - | 3 | 5,9 mm | 3 m | 0,183 kg | Fig. 1 | - |
| 1834484213 | - | 3 | 5,9 mm | 3 m | 0,183 kg | Fig. 2 | - |
| 1834484214 | - | 3 | 5,9 mm | 5 m | 0,308 kg | Fig. 1 | - |
| 1834484215 | - | 3 | 5,9 mm | 5 m | 0,308 kg | Fig. 2 | - |
| 1834484204 | Yellow | 3 | 5,9 mm | 3 m | 0,185 kg | Fig. 1 | 1) |
| 1834484205 | Yellow | 3 | 5,9 mm | 3 m | 0,185 kg | Fig. 2 | 1) |
| 1834484206 | Yellow | 3 | 5,9 mm | 5 m | 0,292 kg | Fig. 1 | 1) |
| 1834484207 | Yellow | 3 | 5,9 mm | 5 m | 0,298 kg | Fig. 2 | 1) |
| 1834484208 | Yellow | 3 | 5,9 mm | 3 m | 0,171 kg | Fig. 1 | 1) |
| 1834484209 | Yellow | 3 | 5,9 mm | 3 m | 0,194 kg | Fig. 2 | 1) |
| 1834484210 | Yellow | 3 | 5,9 mm | 5 m | 0,297 kg | Fig. 1 | 1) |

| Part No. | LED status display | Number of wires | Cable-Ø | Cable length | Weight | Fig. | |
|------------|--------------------|-----------------|---------|--------------|----------|--------|----|
| 1834484211 | Yellow | 3 | 5,9 mm | 5 m | 0,285 kg | Fig. 2 | 1) |
| 1834484236 | Yellow | 3 | 5,9 mm | 10 m | 0,571 kg | Fig. 2 | 1) |

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, Dimensions in mm, 0° female insert

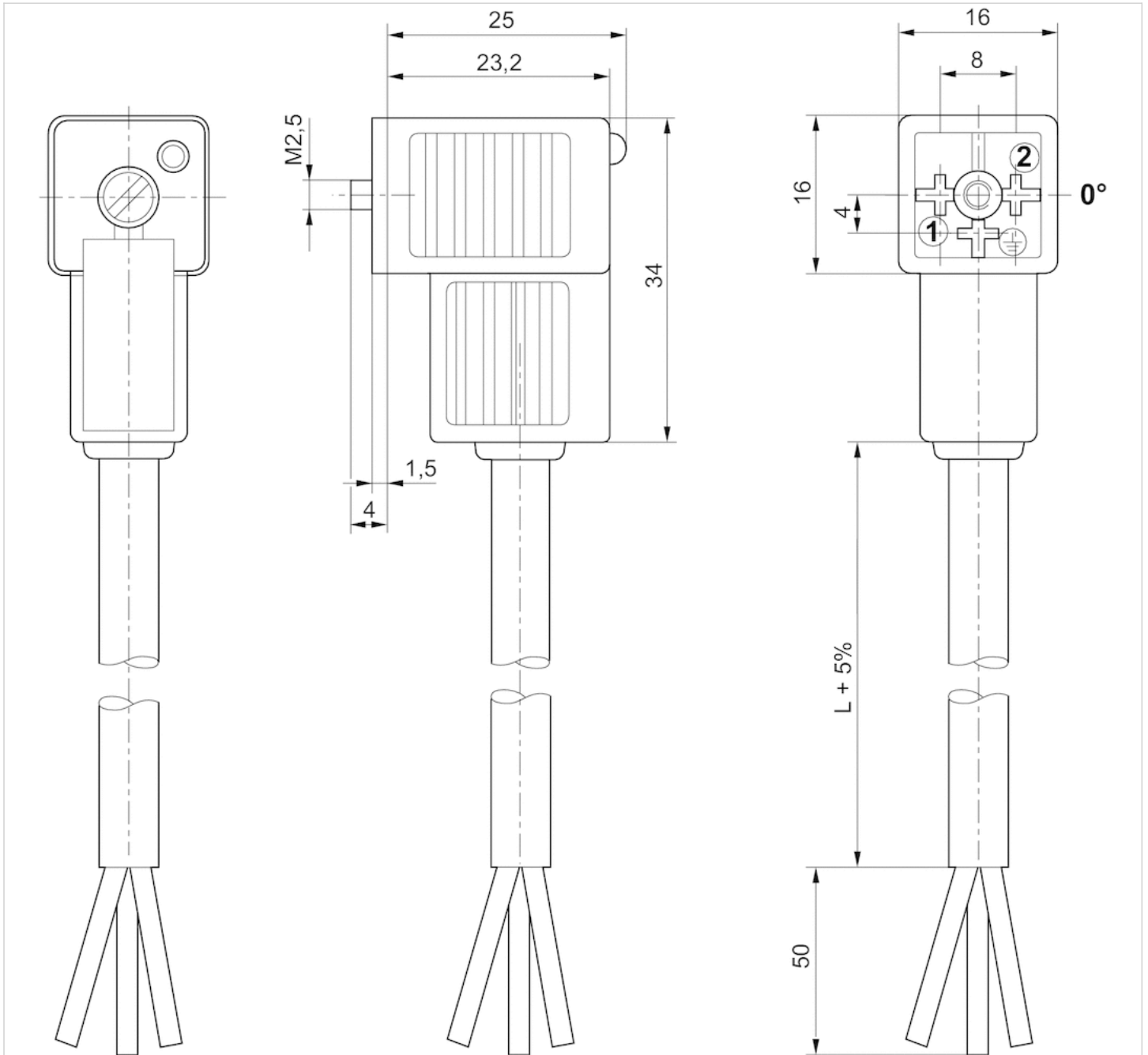
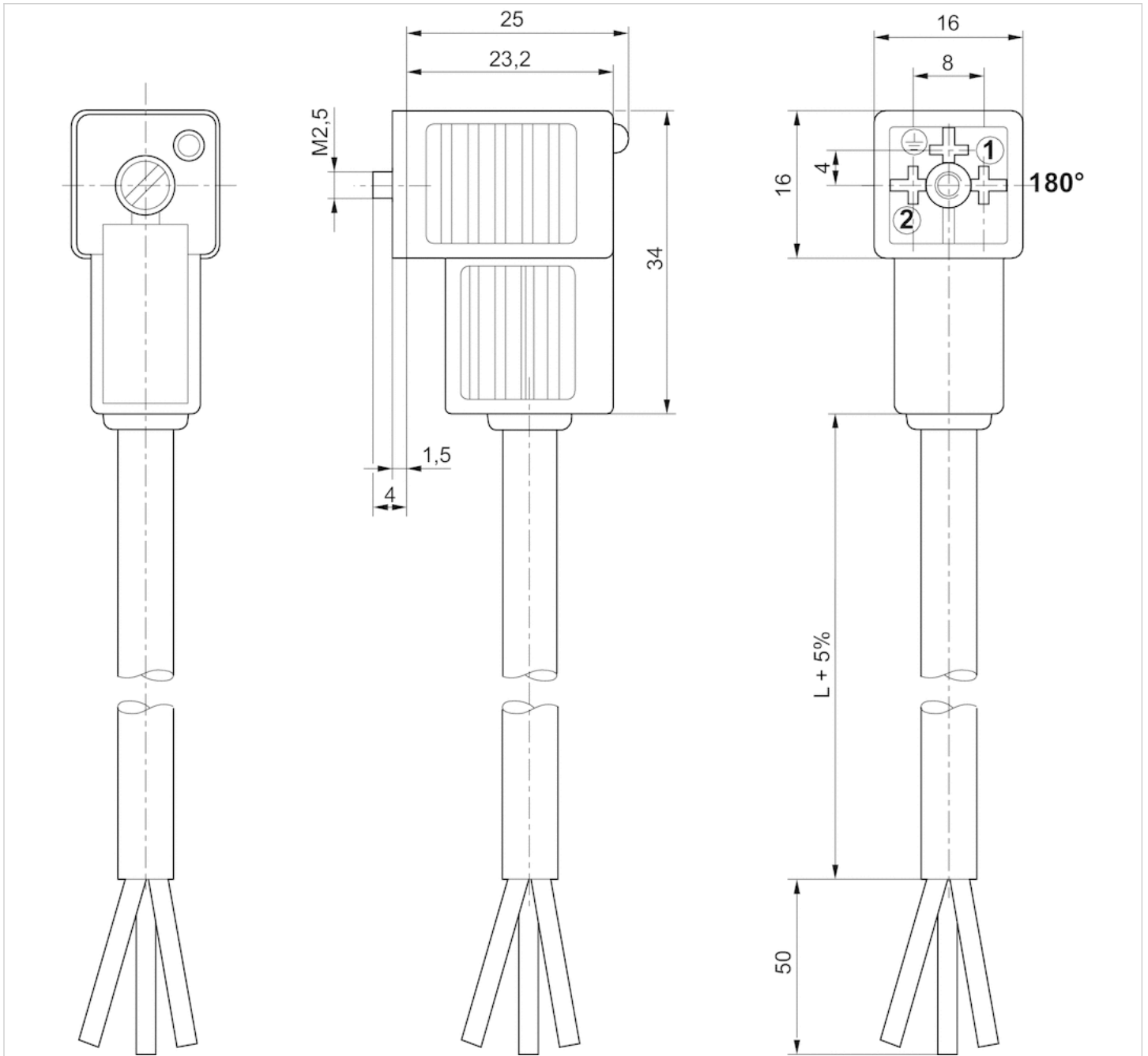


Fig. 2, Dimensions in mm, 180° female insert




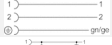

Valve plug connector, series CON-VP

- Socket, form C, 2+E, angled, 90°
- ISO 15217
- unshielded
- with LED Green



| | |
|----------------------------------|-----------------|
| 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. | | Operational voltage | Max. current | Protective circuit | Contact assignment |
|------------|---|---------------------|--------------|--------------------|--------------------|
| 1834484187 |  | 250 / 300 V AC/DC | 6 A | - | 2+E |
| 8941012202 |  | 250 / 300 V AC/DC | 6 A | - | 2+E |
| 4402050330 |  | 24 V AC/DC | - | Z-diode | 2+E |

| Part No. | LED status display | suitable cable-Ø min./max | Seal | Weight |
|------------|--------------------|---------------------------|---------------------------------|----------|
| 1834484187 | - | 4 / 8 mm | caoutchouc/butadiene caoutchouc | 0,012 kg |
| 8941012202 | - | 4 / 8 mm | - | 0,012 kg |
| 4402050330 | Green | - | - | 0,014 kg |

| Part No. | Fig. | |
|------------|--------|----|
| 1834484187 | Fig. 1 | - |
| 8941012202 | Fig. 2 | - |
| 4402050330 | Fig. 3 | 1) |

1)

Technical information

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

Technical information

Material

Seals

caoutchouc/butadiene caoutchouc

Dimensions

Fig. 1

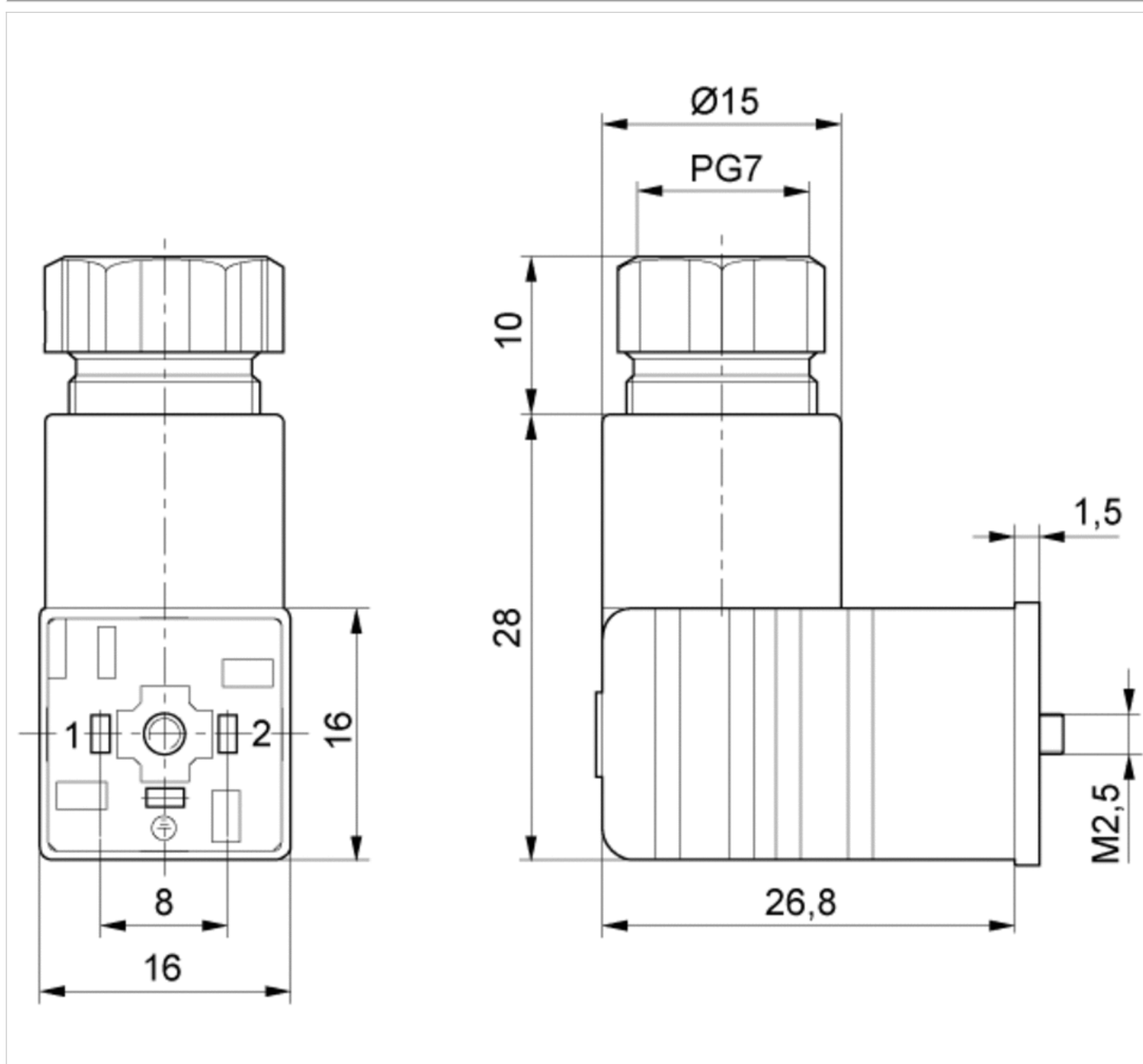


Fig. 2

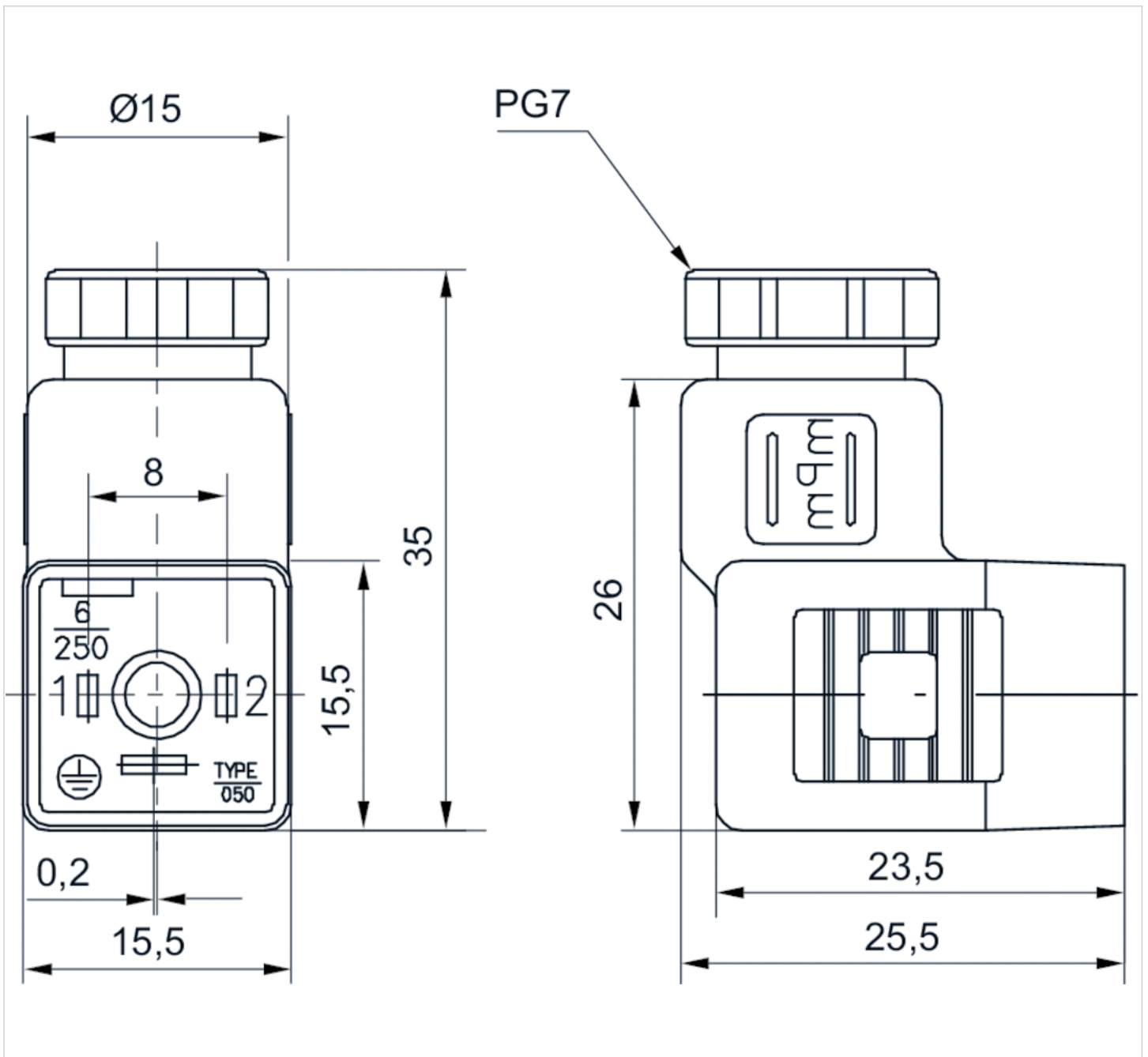
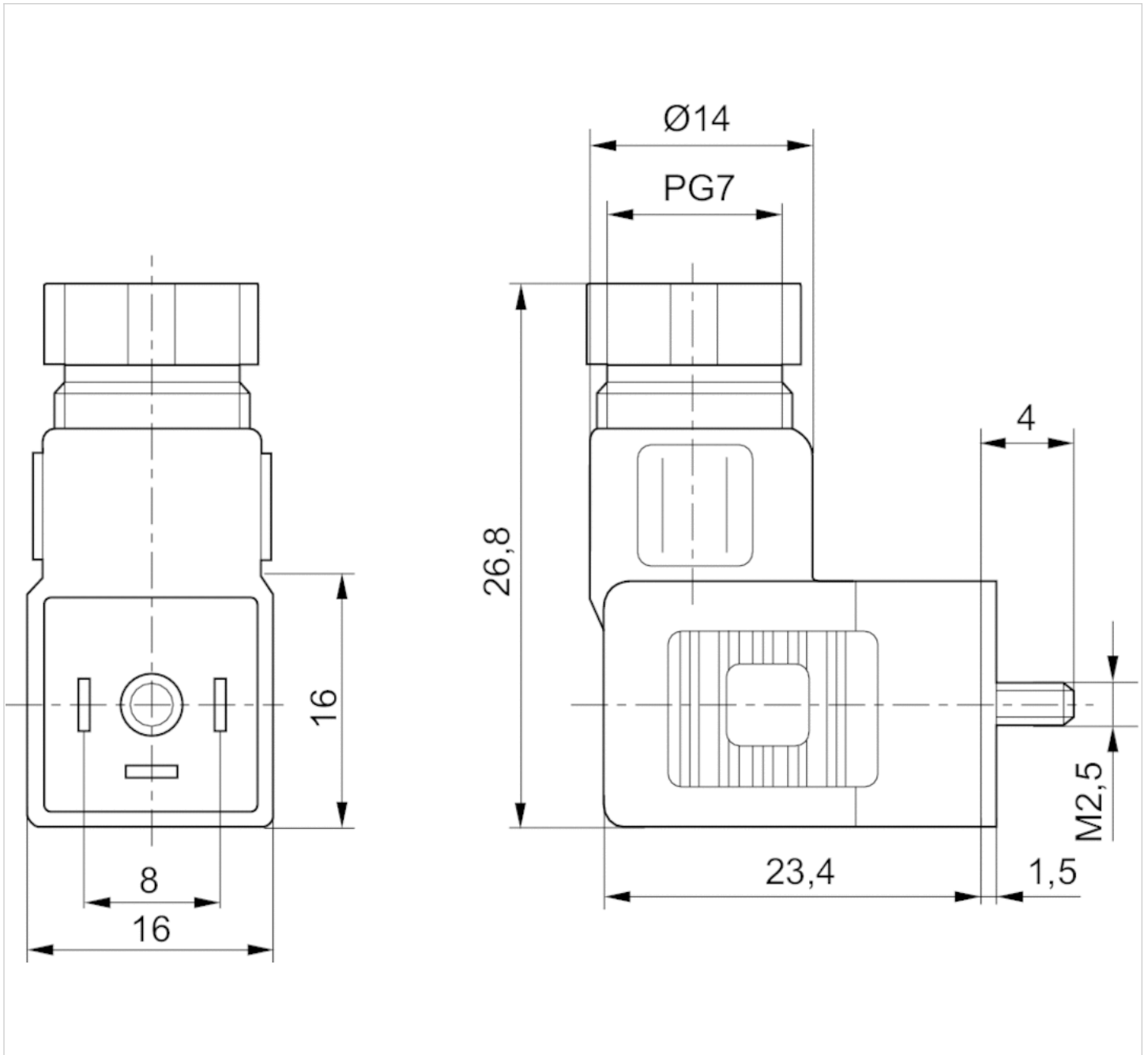


Fig. 3



Adapter, Series CON-AP

- open cable ends 10 x snap Ø8 14-pin
- Socket M8x1 straight 180°
- with cable
- unshielded



| | |
|-------------------------------|----------------------|
| Ambient temperature min./max. | -40 ... 90 °C |
| Operational voltage | 48 V AC/DC |
| Protection class | IP67 |
| Wire cross-section | 0,34 mm ² |
| Weight | See table below |

Technical data

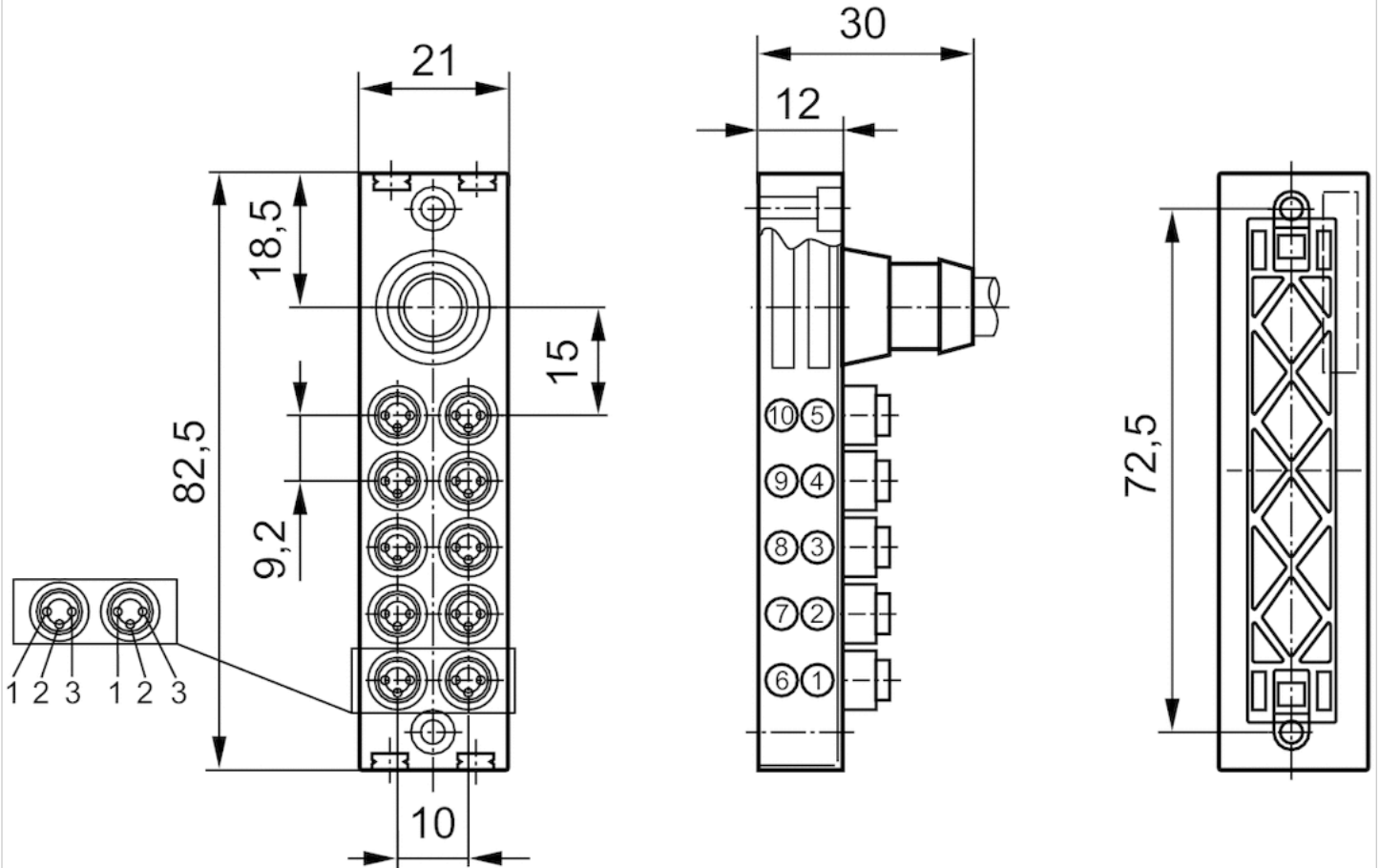
| Part No. | Max. current | Number of wires | Cable-Ø | Cable length | Weight |
|------------|--------------|-----------------|---------|--------------|----------|
| 0493831909 | 2,1 A | 14 | 8,6 mm | 3 m | 0,39 kg |
| 0493832018 | 2,1 A | 14 | 8,6 mm | 10 m | 1,167 kg |

Technical information

| Material | |
|--------------|------------------------|
| Housing | Polyurethane Polyamide |
| Cable sheath | Polyvinyl chloride |

Dimensions

Dimensions

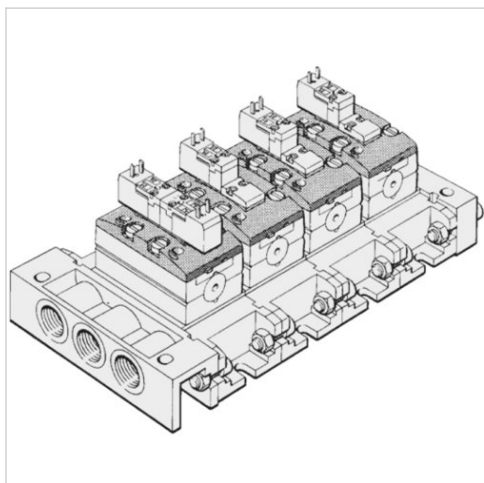


Pin assignment

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

valve cover, with or without pilot valve

- for 581
- size 2
- standard ISO 5599-1



| | |
|-------------------------------|------------------------------|
| standard | ISO 5599-1 |
| Ambient temperature min./max. | -10 ... 50 °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 | Pilot valve width | Weight | |
|------------|--|-------------------|----------|----|
| 0493842706 | 5/2-directional valve, single solenoid | 15 mm | 0,085 kg | 1) |
| 0493842803 | 2x3/2-, 5/2-, 5/3-directional valve | 15 mm | 0,08 kg | 2) |
| 5812010000 | 5/2-directional valve, mono-stable | 22 mm | 1 kg | 3) |
| 5812020000 | 2x3/2-, 5/2-, 5/3-directional valve | 22 mm | 1 kg | 4) |
| 5812050000 | 5/2-directional valve, mono-stable | 22 mm | 0,17 kg | 5) |
| 5812060000 | 2x3/2-, 5/2-, 5/3-directional valve | 22 mm | 0,18 kg | 5) |
| 5812080000 | all | 30 mm | 0,241 kg | - |

1) without pilot valve

2) without pilot valve, For version 12 V DC - 230 V AC, 5 W

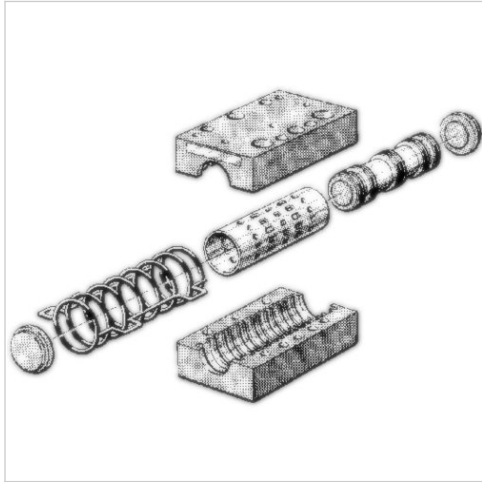
3) with pilot valve without coil, For version 12 V DC - 230 V AC, 5 W

4) with pilot valve without coil

5) with pilot valve without coil, For version 24 V DC, 2 W

valve housing, without cover

- Aluminum
- for 581
- size 2
- 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

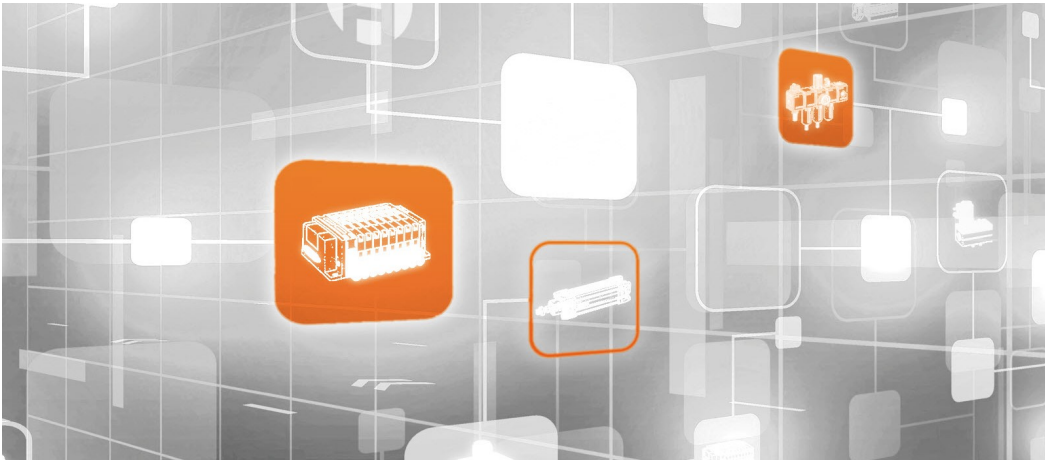
| Part No. | Type | Weight |
|------------|--|----------|
| 5812100000 | 5/2-directional valve, mono-stable | 0,255 kg |
| 5812200000 | 5/2-directional valve, double solenoid | 0,4 kg |
| 5812300000 | 5/2-directional valve, double solenoid, with manual override | 0,4 kg |
| 5812400000 | 5/3-directional valve, closed center | 0,26 kg |
| 5812500000 | 5/3-directional valve, exhausted center | 0,26 kg |
| 5812600000 | 5/2-way solenoid valve, with differential piston | 0,27 kg |
| 5812700000 | 5/3-directional valve, pressurized center | 0,26 kg |

The valve can be changed to a single solenoid version with air return., signal 14 has priority

Technical information

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

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