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

- ISO 5599-1
- ISO 2
- 5/2
- With spring return
- single solenoid
- Qn = 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. 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/m³

Nominal flow Qn 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

Mounting screw with hexagon socket

40 ms

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 | | <u>-</u> | 24 V | - |
| 5812170450 | | | - | 230 V |
| 5812171650 | | - - - | 24 V | - |
| 5812171450 | | - | - | 230 V |
| 5812172650 | | | 24 V | - |
| 5812172450 | | <u>-</u> | - | 230 V |
| 5812173650 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | <u>-</u> | 24 V | - |
| 5812173450 | 1 1 2 W | <u>-</u> | - | 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 Qn at 6 bar and Δp = 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).

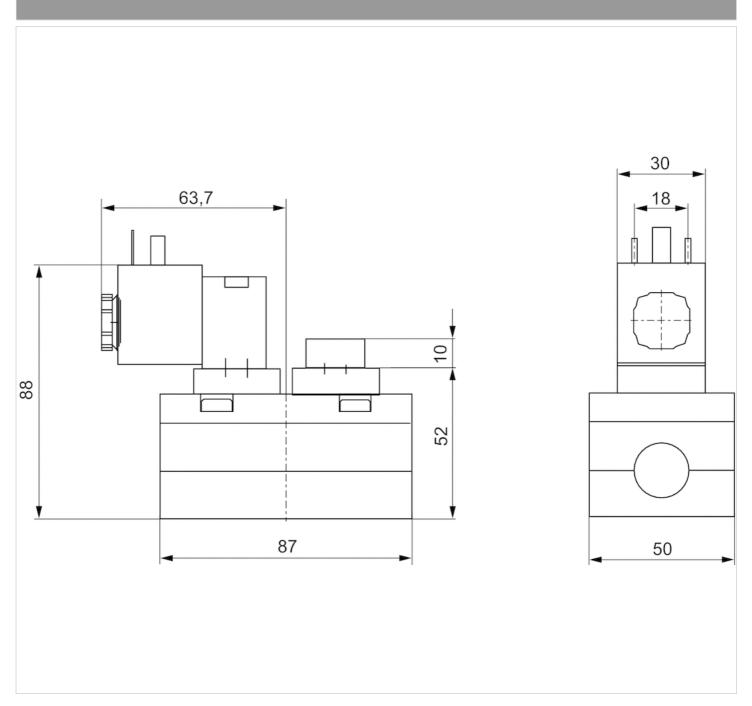
Technical information

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



Dimensions

Dimensions



Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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