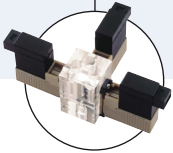


2/2 and 3/2 way Flipper Solenoid Valve, with hermetic isolation of fluid



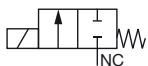
Type 6604 can be combined with...



Manifolds

Thanks to the patented Bürkert flipper technology, the direct-acting Type 6604 solenoid valve is unique. It combines fast, precise switching behaviour with reliable media separation, and the design eliminates heat transfer between fluid and coil. The use of high quality materials makes it possible to also use it where high chemical resistance is required. The optional impulse model works with the smallest energy requirement, and is therefore especially suitable for battery operation; the heat transfer to the medium is negligible for this model. A minimal dead volume and gap-free internal design make it possible to use it in medical, analytical and laboratory technology.

Circuit function A



2/2 way direct-acting solenoid valve, normally closed

Circuit function T



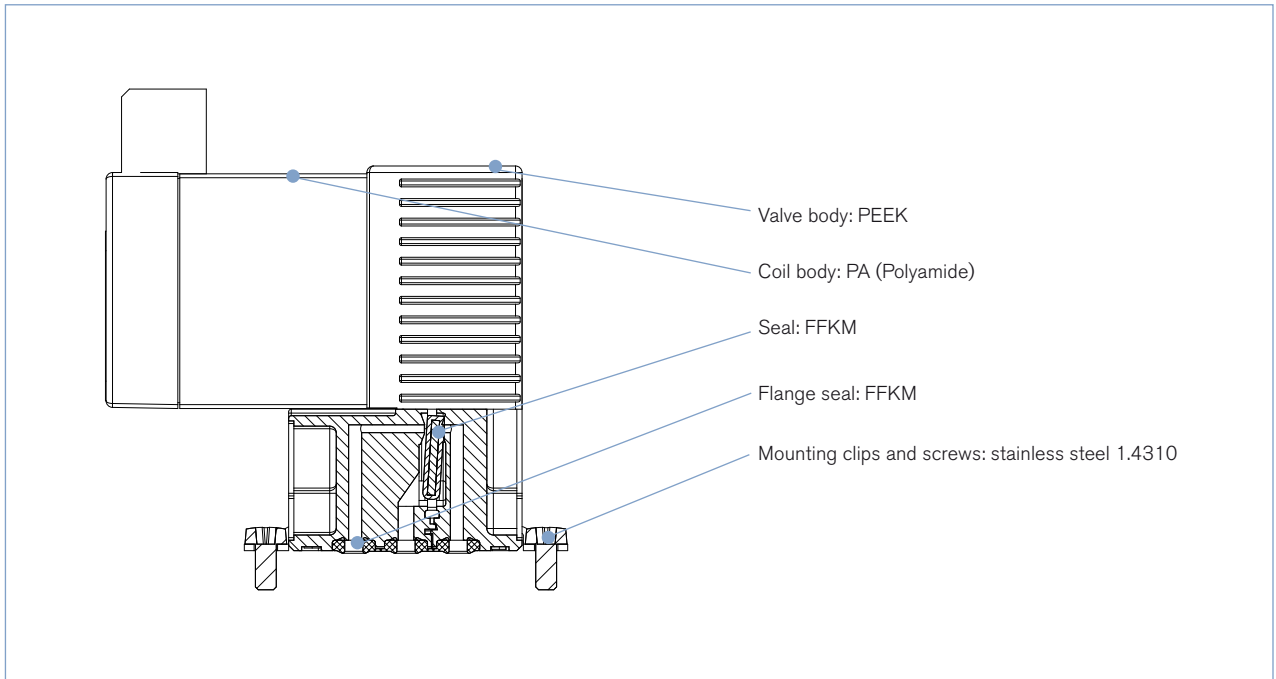
3/2 way direct-acting solenoid valve, flow direction optional

- Low internal volume
- High chemical resistance
- Low power consumption
- Optional impulse model
- High back pressure tightness
- DN0.6 mm

| Technical data | |
|---|--|
| Orifice | DN0.6 mm |
| Body material | PEEK |
| Seal material | FFKM (Perfluorelastomer) |
| Medium | Resistant to neutral and aggressive liquids and gases, see Bürkert chemical resistance chart; technical vacuum |
| Medium temperature | 0 to +50 °C |
| Ambient temperature | max. +55 °C |
| Viscosity | max. 21 mm ² /s |
| Internal volume | Fluid chamber 3/2 way versions 2/2 way versions |
| | ca. 15µl ca. 45µl ca. 35µl |
| Port connection | Flange UNF 1/4"-28, M3 Tube spigot on request |
| Manual override | Push manual override |
| Operating voltage | 6, 12, 24 V DC * |
| Voltage tolerance | ± 10 % |
| Power consumption | 1.5 W |
| Duty cycle | 100 % continuous rating |
| Manifold mounting (in case Medium or ambient temperature higher +40 °C) | 40 % intermittent rating (within 10 min) |
| Cycling function | Monostable or bistable (option) |
| Electrical connections | Rectangular plug or 2 single flying leads, 300 mm |
| Protection class | IP40 with rectangular plug |
| Mounting (sub-base valve) | with holders and mounting screw |
| Installation | As required, preferably with flange downwards |

* 10 % residual ripple allowed

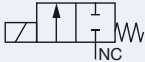

















Materials



Phase out

Ordering chart flange connection (other versions on request)























All valves with PEEK body and FFKM seal, rectangular plug types delivered without plug (see Accessories).
The delivery of each valve includes 2 holders with cheese head M 1.6 × 5 screws.

| Circuit function | Orifice [mm] | K _v value water [m ³ /h] | K _v value II water [l/min] | Q ₉₀ value air [l/min] | Pressure range [bar] | Cycling function | Voltage/Frequency [V/Hz] * | Electrical connection | Article no. | | | | | |
|--|--------------------------|--|---------------------------------------|-----------------------------------|----------------------|--------------------------|----------------------------|--|--|--|--|--|----------------------|--|
|  2/2 way direct-acting solenoid valve, normally closed | 0.6 | 0.006 | 0.1 | 6.4 | Vac -3 | monostable | 12/DC | Rectangular plug 5.08 mm | 140463  | | | | | |
| | | | | | | | | Flying leads, 300 mm | 140465  | | | | | |
| | | | | | | | 24/DC | Rectangular plug 5.08 mm | 140464  | | | | | |
| | | | | | | | | | | | | | Flying leads, 300 mm | 140466  |
| | | | | | | bistable (impulse drive) | 06/DC | Rectangular plug 5.08 mm | 140467  | | | | | |
| | | | | | | | | Flying leads, 300 mm | 140468  | | | | | |
| 12/DC | Rectangular plug 5.08 mm | 143170  | | | | | | | | | | | | |
| | | | | | | | Flying leads, 300 mm | 145467  | | | | | | |
|  3/2 way direct-acting solenoid valve, flow direction optional | 0.6 | 0.006 | 0.1 | 6.4 | Vac -3 | monostable | 12/DC | Rectangular plug 5.08 mm | 140469  | | | | | |
| | | | | | | | | Flying leads, 300 mm | 140471  | | | | | |
| | | | | | | | 24/DC | Rectangular plug 5.08 mm | 140470  | | | | | |
| | | | | | | | | | | | | | Flying leads, 300 mm | 140472  |
| | | | | | | bistable (impulse drive) | 06/DC | Rectangular plug 5.08 mm | 140473  | | | | | |
| | | | | | | | | Flying leads, 300 mm | 140474  | | | | | |
| 12/DC | Rectangular plug 5.08 mm | 141388  | | | | | | | | | | | | |
| | | | | | | | Flying leads, 300 mm | 145470  | | | | | | |

* 10% residual ripple allowed

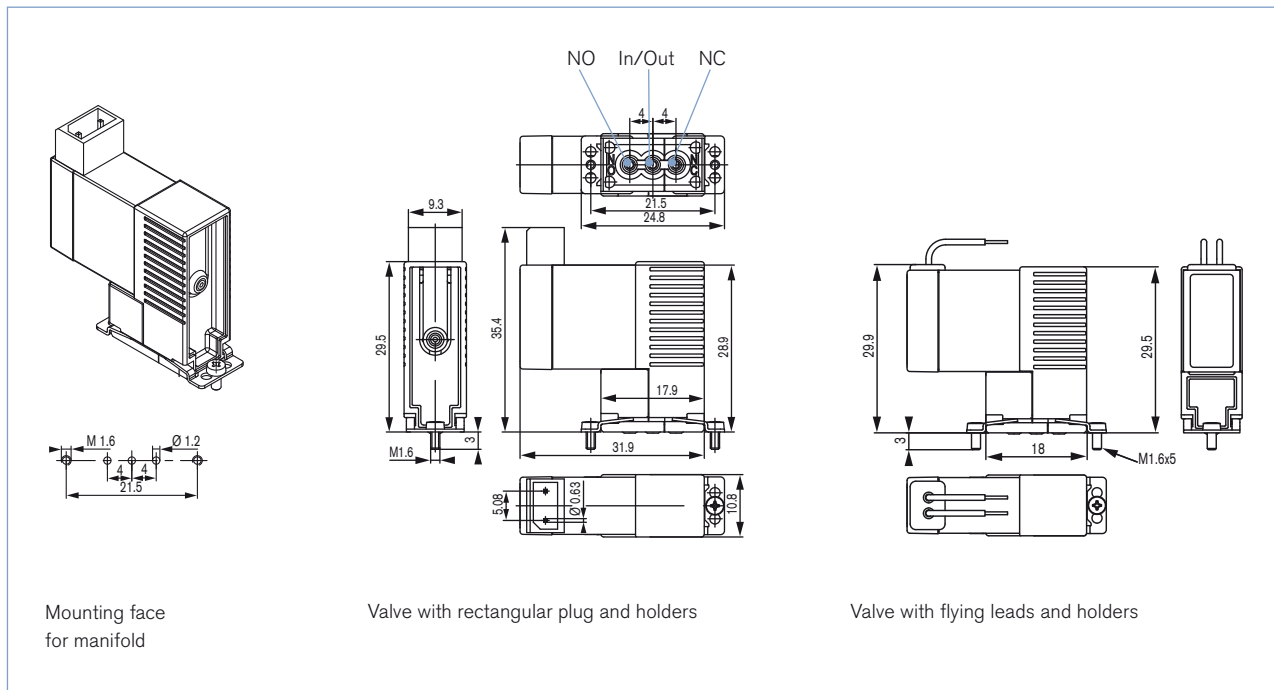
Ordering chart with tube spigots sideways and UNF 1/4-28 (other versions on request)

All valves with PEEK body and FFKM seal, rectangular plug types delivered without plug (see Accessories).

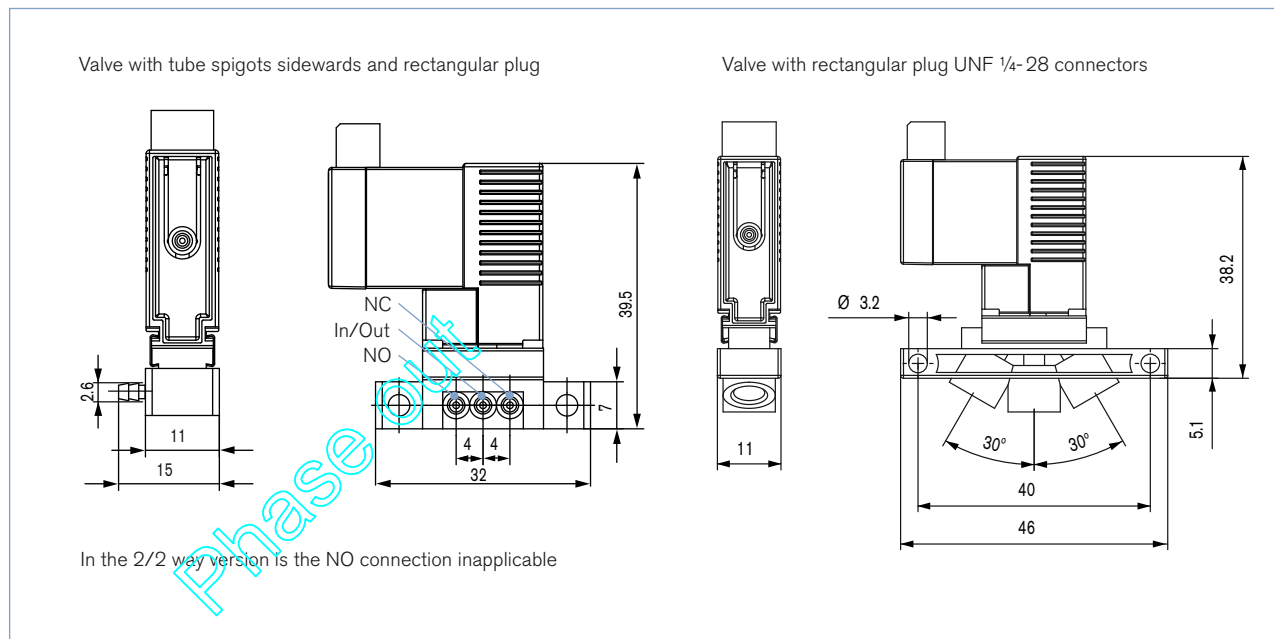
| Circuit function | Orifice [mm] | K _v value water [m ³ /h] | K _v value II water [l/min] | Q ₉₀ value air [l/min] | Pressure range [bar] | Cycling function | Voltage/Frequency [V/Hz] * | Electrical connection | Article no. tube spigots sideways | Article no. UNF 1/4 - 28 | | | | | |
|--|--------------------------|--|---------------------------------------|-----------------------------------|----------------------|--------------------------|----------------------------|--|--|--|--|--|----------------------|--|--|
|  2/2 way direct-acting solenoid valve, normally closed | 0.6 | 0.006 | 0.1 | 6.4 | Vac -3 | monostable | 12/DC | Rectangular plug 5.08 mm | 145617  | - | | | | | |
| | | | | | | | | Flying leads, 300 mm | 145620  | - | | | | | |
| | | | | | | | 24/DC | Rectangular plug 5.08 mm | 145621  | 154533  | | | | | |
| | | | | | | | | | | | | | Flying leads, 300 mm | 221181  | 189583  |
| | | | | | | bistable (impulse drive) | 06/DC | Rectangular plug 5.08 mm | 145618  | | | | | | |
| | | | | | | | | Flying leads, 300 mm | 145616  | | | | | | |
| 12/DC | Rectangular plug 5.08 mm | 145624  | | | | | | | | | | | | | |
| | | | | | | | Flying leads, 300 mm | 145622  | - | | | | | | |
|  3/2 way direct-acting solenoid valve, flow direction optional | 0.6 | 0.006 | 0.1 | 6.4 | Vac -3 | monostable | 12/DC | Rectangular plug 5.08 mm | 145624  | - | | | | | |
| | | | | | | | | Flying leads, 300 mm | 145622  | - | | | | | |
| | | | | | | | 24/DC | Rectangular plug 5.08 mm | 145625  | 154534  | | | | | |
| | | | | | | | | | | | | | Flying leads, 300 mm | 145626  | 189564  |
| | | | | | | bistable (impulse) | 06/DC | Rectangular plug 5.08 mm | 145623  | | | | | | |
| | | | | | | | | Flying leads, 300 mm | 145627  | | | | | | |
| 12/DC | Rectangular plug 5.08 mm | 145624  | | | | | | | | | | | | | |
| | | | | | | | Flying leads, 300 mm | 145627  | - | | | | | | |

* 10% residual ripple allowed

Dimensions [mm]



Valve dimensions [mm] with tube spigots sideways and UNF 1/4 - 28



DTS 1000049952 EN Version: L Status: PO (Phase out) | Phase out | printed: 14.11.2024

Ordering chart accessories

| Accessories | Feature | Article no. |
|---------------------------------|--------------------------|-------------|
| Rectangular cable plug | with 3 m cable | 133486 |
| | with 300 mm flying leads | 644068 |
| | with 2 single contacts | 644067 |
| Single manifold stainless steel | with 3x M3 connection | 644684 |
| Multi-station manifolds in PEEK | 2 valves | 659285 |
| | 3 valves | 659286 |
| | 4 valves | 659287 |
| | 5 valves | 653131 |
| | 6 valves | 659288 |
| | 7 valves | 659289 |
| | 8 valves | 659290 |
| | 9 valves | 659291 |
| | 10 valves | 651379 |

Other accessories on request:

- Fittings and tubes (see also type TVU003)
- Rectangular cable plug, grid spacing 5.08 mm, for plate mounting
- Customized manifolds

Manifold dimensions [mm]

Single manifold M3, stainless steel

Multi-station manifold, PEEK

| No. of valve positions | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------------------|----|----|----|----|----|----|----|-----|-----|
| Dimensions A [mm] | 33 | 44 | 55 | 66 | 77 | 88 | 99 | 110 | 121 |

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In case of special application conditions, please consult for advice.

Subject to alterations
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