TYPE 46TK

2/2-way solenoid valve
NC - Valve normally closed

Pilot operated piston valve
The mentioned minimum pressure difference between inlet and outlet is necessary for proper operation.
In standard (NC) the valve closes with spring power.

- **Solenoid valve for cryonic fluids**

TECHNICAL SPECIFICATIONS

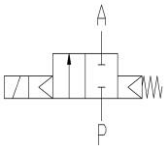
Type of control	Pilot operated, differential pressure necessary
Design	Piston design
Connection	Sleeve connection G1/4 - G1/2 DIN ISO 228/1 (BSP) Further connections like NPT on request
Installation	Preferable with actuator upright
Pressure	St.steel 1.4581: 1 - 16 bar St.steel 1.4404: 1 - 30 bar (see table on page 2)
Medium	Clean and neutral liquids
Max. viscosity	22 mm²/s
Temperature range	Medium: -196 °C / +80 °C Environment: -55 °C / +50 °C Taking into account other influencing parameters
Body material	Stainless steel 1.4581 Stainless steel 1.4404
Metallic inner parts	Stainless steel
Sealing	PTFE
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	S802 = 24 Watt
Protection class	IP65 according to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	terminal box

VALVE FEATURES

- Low temperature design -196 °C
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

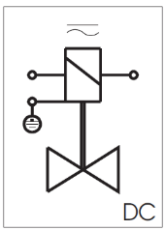
FUNCTION

NC – non energized closed

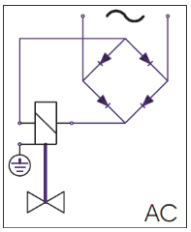


CONNECTION DIAGRAM

For AC/DC coils



For DC coils
w/ integr. rectifier



CERTIFICATES

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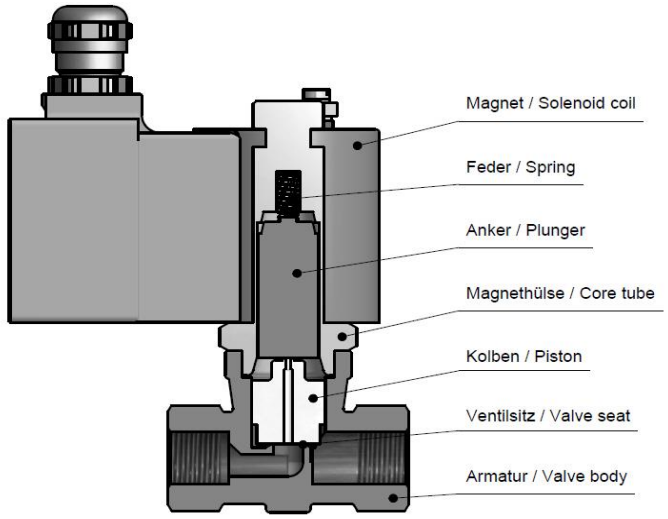
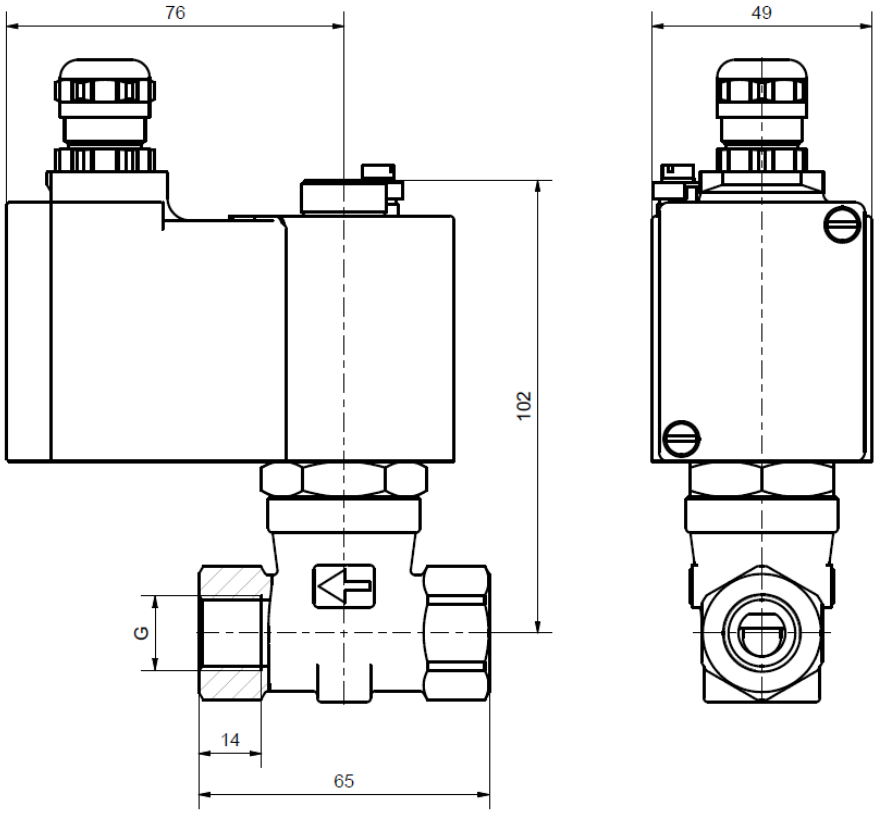
TECHNICAL FEATURES

				max. pressure for coils S802	
G	Seat Ø mm	Kv-value m³/h	Standard type	St.steel 1.4581	St.steel 1.4404
1/4	8,0	1,0	K4621/08(06)04/	1-16	1-30
3/8	8,0	1,2	K4622/08(06)04/	1-16	1-30
1/2	8,0	2,0	K4623/08(06)04/	1-16	1-30



DIMENSIONS



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INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **For information on the heating and performance of solenoid coils, refer to the corresponding "Coils" data sheet.**
- **Detailed production-specific drawings and other technical information will be made available when an order is placed.**

PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since, in addition to high temperatures, high pressures and high flow rates must also be taken into account when selecting the materials.

All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.

ORDERING CODE

Type	Connection		Body	Sealing		Coil		Option
K46	**23**	**/**	**08**	**04**	**/**	**S80**	**2**	**-** **TK**

21	G 1/4	06	St.steel 1.4404	80	24 W	2	Standard IP65
22	G 3/8	08	St.steel 1.4581				
23	G 1/2						

04	PTFE

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