

Technical Data Sheet Type 72

CONTROLS SUPPLY CHAIN VALVES ACTUATORS INSTRUMENTATIONS

3/2-way solenoid valve

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NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Direct operated piston design valve. No differential pressure is necessary for operation. When energized, the valve seat is opened directly. In standard (NC) the valve closes with spring power.

Solenoid valve for gaseous and liquid media

GSR Ventiltechnik

TECHNICAL SPECIFICATIONS

Type of control	Direct operated, no pressure difference necessary						
Design	Piston design						
Connection	Threaded G1/8 - G1/2 DIN ISO 228/1 (BSP) Further connections like NPT on request						
Installation	Preferable with actuator upright						
Pressure	0 - 90 bar (see table on page 2)						
Medium	Clean, neutral, gaseous and liquid media						
Viscosity	22 mm²/s						
Temperature range	Medium: -10 °C up to +80 °C Ambient: -10 °C up to +50 °C In consideration of the restrictions described on page 4						
Body material	Brass 2.0401 / 2.0402 Stainless steel 1.4305 Stainless steel 1.4571						
Metallic inner parts	Messing und Edelstahl						
Sealing	FKM, EPDM, PTFE						
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request						
Voltage tolerance	-10% / +10%						
Power consumption	.182 = 6,8 Watt .178 = 5,2 Watt .032 = 11 Watt .148 = 10 Watt .012 = 18,5 Watt						
Protection class	IP65 acc. to DIN 60529						
Duty factor	100% ED-VDE 0580						
Connection type	Plug						
Ex-proof	acc. to 2014/34/EG(ATEX) Further Ex-proof on request						

VALVE FEATURES

- No pressure difference required
- High life time
- Simple compact valve design
- Low weight
- High-quality materials
- Reliable and sturdy sealing elements
- Long-term availability of spare parts

FUNCTION

NC – non pressurized closed

ed closed NO – non-pressurized open





CERTIFICATES



ORDERING SYSTEM

Type		Co	nn.		Hou	using		Seal				Coil			0	ption
. 7	2	3	1	1	1	0	0	2	1		1	8	2	-	н	А
	4. 5.				08	St.ste St. st Brass	eel 1	.4571		8	Explo acc. t	ard IP sion p to dire 34/EU	roof			
	.1	1.0 m 1.5 m 2.0 m	m				02 04 06	FKM PTFE EPDM								
		2.5 m														

TECHNICAL FEATURES

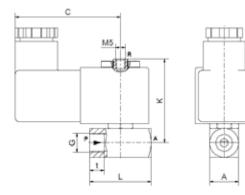
				max. pressi	ATEX			
Seat Ø mm	Kv-value m³/h	Standard type	.182	.032	.012	.012-NO	.178	.148
1,0	0,06	.7230/1004/	-	-	0-90	-	-	-
1,0	0,06	.7230/1002/	0-10	0-25	0-50	0-25	0-10	0-20
1,5	0,09	.7231/1002/	0-8	0-15	0-25	0-15	0-5	0-10
2,0	0,13	.7232/1002/	0-6	0-11	0-22	0-11	0-3	0-8
2,5	0,16	.7233/1002/	-	0-8	0-15	0-8	-	0-6
3,0	0,20	.7234/1002/	-	0-6	0-10	0-5	-	0-3

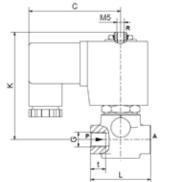
Design 2

The flow rate mentioned in the table applies to the strongest coil.

DIMENSIONS

Design 1 Brass with coil .182 (.178) and all stainless steel variations





(TTT)

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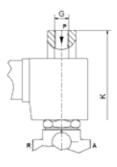
Forged brass with coil .032 / .012 (.148)

Detail NO - normally open

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Type 72



Coil	.182 / .178*	.032 / .148*	.012	.012-NO
Туре	.7230-34	.7230-34	.7230-34	.7230-34
G	1/8	1/8	1/8	1/8
А	15	28	28	28
С	55	59	61	61
К	44	72	72	85
L	32	40	40	40
t	7,5	10	10	10
kg	0,2	0,4	0,5	0,55

*Differing dimension "C" for ATEX-coils

Dimensions for connection sizes G1/4, G3/8 and G1/2 on request.

INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- 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.

Heating and power of solenoid coils

The GSR default solenoid valves are designed for continuous operation (100% ED = power-on time) under normal operating conditions. The pulling force of a solenoid coil is basically influenced by three elements:

- The self-heating of the magnetic coil
- The medium temperature
- The ambient temperature

GSR solenoid coils are by default designed for a maximum ambient temperature of +35 °C. This specification applies for the maximum allowable operating pressure specified in the data sheet of the corresponding valve, 100% duty cycle and a medium temperature of +80 °C.

A higher ambient temperature is possible, when lower values are applied for the other influencing parameters. When the max. operation pressure and max. ambient temperature of +50 °C is given the medium temperature is not allowed to be higher than max. +50 °C. In addition to that, deviations from the default design temperature range are possible, e.g. when temperature coils or other constructive measures are used. Please contact the GSR headquarters to discuss the specific application.

More precise specifications and technical data with regard to the operating conditions can be found in the data sheets of the solenoid coils and the solenoid valve regarded. Please observe that the surface temperature of a permanently loaded coil can amount up to +120 $^{\circ}$ C, solely by the self-heating of the coil. The power consumption of our default solenoid valves was calculated to DIN VDE 05820 for a coil temperature of +20 $^{\circ}$ C.

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Stand: 07.17, MK-MG, Version 1.

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