

Technical Data Sheet Type 24



2/2-Way solenoid valve Valve normally closed (NC).

When energized the solenoid first opens the pilot hole and then lifts directly or supported by a pressure difference the piston from the valve seat. The valve is closed by spring power.

■ Solenoid valve for clean, neutral, gaseous and liquid media

TECHNICAL SPECIFICATIONS VALVE FEATURES

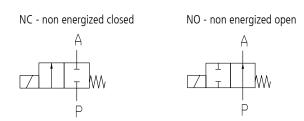
Type of control:	Force pilot operated, no pressure difference required						
Design:	Piston design						
Connection:	Flanges acc. to EN 1092-1 Form B1/B2 Other flange connections like ASME or JIS on request						
Installation:	Actuator only in upright position Lying position of actuator on request						
Pressure:	0-40 bar (see table page 2)						
Medium:	Clean, neutral, gaseous and liquid medium						
Viscosity:	22 mm ² /s						
Temperature range:	Medium: -30 °C up to +80 °C Ambient: -30 °C up to +50 °C In consideration of the restrictions described on page 4						
Body material:	Spheroidal graphite iron EN-GJS-400-18-LT Cast iron EN-GJL-250 Cast steel GP240 GH Stainless steel 1.4581						
Metallic inner parts:	Brass and stainless steel						
Sealing:	PTFE Optional: NBR, FKM, EPDM						
Supply voltage:	AC~ 24V, 110V, 230V DC= 12V, 24V, 110V Other supply voltages on request						
Voltage tolerance:	-10% / +10%						
Power consumption:	.272 = 100 Watt .278 = 47 Watt ₩ .352 = 150 Watt .358 = 75 Watt ₩ .402 = 250 Watt .248 = 30 Watt ₩						
Protection class:	IP65 according to DIN EN 60529						
Duty factor:	100% ED-VDE 0580						
Connection type:	Terminal box						
Ex-proof:	Ex e mb II T4 Further Ex-proof on request.						

- - High life time
 - Simple compact valve design
 - Reliable and sturdy sealing elements

■ No pressure difference is required

- Long-term availability of spare parts
- High-quality materials

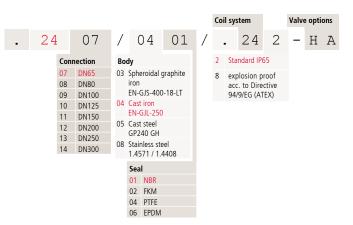
FUNCTION



CERTIFICATES



ORDERING SYSTEM

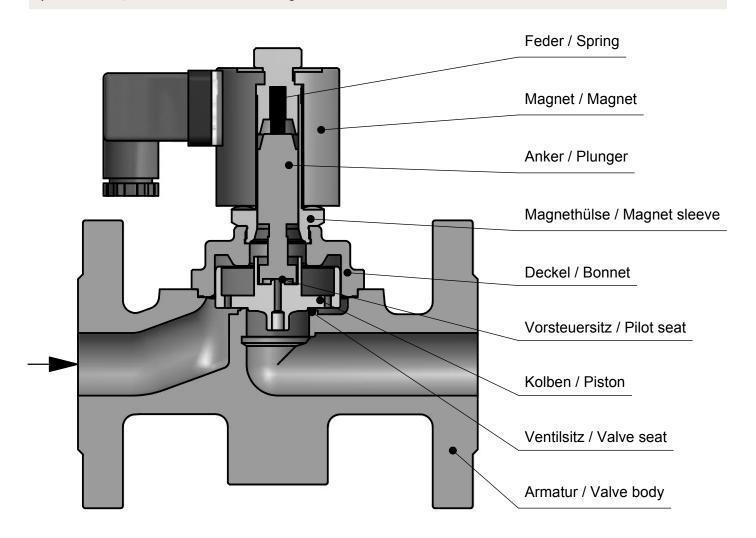


TECHNICAL FEATURES



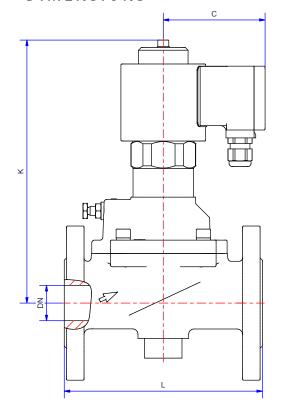
DN S	DN Seat Ø mm Kv-value m³/h		Standard type				ATEX €			
			.242	.272	.352	.402	.248	.278	.358	
65	65	75,0	.2407/0.0./	0-16	0-40* (-)	-	-	0-4	0-25 (0-16)	0-40 (-)
80	80	97,0	.2408/0.0./	0-16	0-25 (-)	0-40* (-)	-	0-2	0-16	0-40 (-)
100	100	143,0	.2409/0.0./	-	0-25 (0-16)	0-40* (-)	-	-	0-16	0-40 (0-16)
125	125	240,0	.2410/0.0./	-	0-16	0-40* (-)	-	-	0-8	0-16
150	150	370,0	.2411/0.0./	-	-	0-16	0-40* (-)	-	-	0-10
200	200	625,0	.2412/0.0./	-	-	0-8	0-16*	-	-	0-4
250	250	950,0	.2413/0.0./	-	-	-	0-16*	-	-	0-1
300	300	1400,0	.2414/0.0./	-	-	-	0-16*	-	-	-

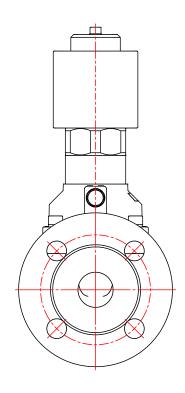
The flow rate mentioned in the table applies to the *marked coil. Specifications in () are valid for EN-GJL-250 housing with PN16.



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DIMENSIONS





Coil	.242/	.248*	.272/.278*						
Туре	.2407	.2408	.2407	.2408	.2409	.2410	.2411		
DN	65	80	65	80	100	125	150		
С	93	93	107	107	107	107	107		
K	270	315	310	345	400	355	359		
L	290	310	290	310	350	400	480		
kg	35,0	44,0	38,0	47,0	63,0	80,0	87,0		

Coil			.352/.358*		.402				
Type	.2408	.2409	.2410	.2411	.2412	.2411	.2412	.2413	.2414
DN	80	100	125	150	200	150	200	250	300
С	120	120	120	127	127	158	158	158	158
K	480	560	420	600	660	600	660	720	750
L	310	350	400	480	600	480	600	730	850
kg	39,0	60,0	87,0	95,0	108,0	140,0	158,0	235,0	320,0

Flange dimensions acc. to EN 1092-1 and DIN 3202-F1 *Differing dimension "C" for ATEX-coils

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 +40 °C. This specification applies for the maximum allowable operating pressure specified in the data sheet of the corresponding valve 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 °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 °C.

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