

Technical Data Sheet Type 24





2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Force-pilot operated piston design valve. No differential pressure is necessary for operation. In standard (NC) the valve closes with spring power.

Solenoid valve for gaseous and liquid media

TECHNICAL SPECIFICATIONS

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Type of control	Force pilot operated no pressure difference required					
Design	Piston design					
Connection	Flanges DN65 - DN300 EN 1092-1 Form B1/B2 Other flange connections like ASME on request					
Installation	With actuator upright					
Pressure	0 - 40 bar (see table on page 2)					
Medium	Clean, neutral, gaseous and liquid media					
max. viscosity	22 mm²/s					
Temperature range	Medium: -30 °C up to +80 °C Ambient: -30 °C up to +50 °C Taking into account the limitations as described in the data sheet 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	NBR, FKM, EPDM, PTFE					
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request					
Voltage tolerance	-10% / +10%					
Power consumption	.242 = 46 Watt .248 = 30 Watt .272 = 100 Watt .278 = 47 Watt .352 = 150 Watt .358 = 75 Watt .402 = 250 Watt					
Protection class	IP65 acc. to DIN 60529					
Duty factor	100% ED-VDE 0580					
Connection type	Terminal box					
Ex-proof	acc. to 2014/34/EU (ATEX)					

Other Ex degrees of protection upon request.

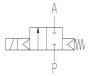
VALVE FEATURES

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

FUNCTION

NC - non energized closed

NO - non-energized open





CERTIFICATES







ORDERING SYSTEM



Wolf Process Automation Limited

Tel: +353 45 831575 Email: info@wpa.ie Web: www.wpa.ie

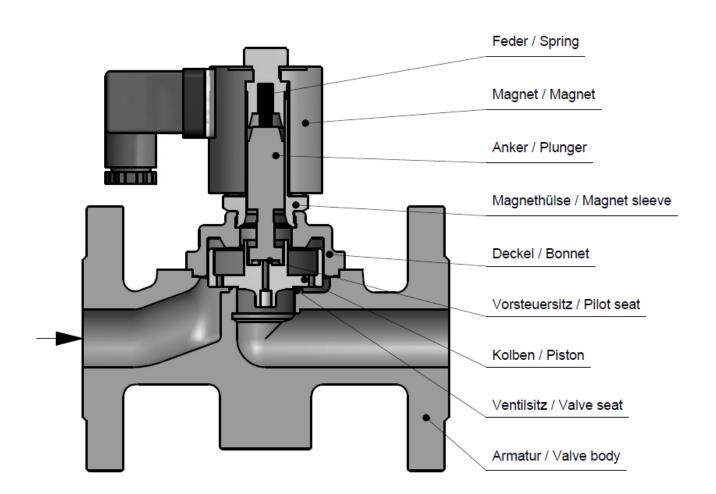
TECHNICAL FEATURES





			max. pressure for coils				max. pressure for coils ATEX			
DN	Kv-value m³/h	Standard type	.242	.272	.352.	.402	.248	.278	.358	
65	75,0	.2407/01/	0-16	0-40	0-40	-	0-4	0-16	0-40	
80	97,0	.2408/01/	0-16	0-25	0-40	-	0-2	0-16	0-40	
100	143,0	.2409/01/	-	0-25	0-40	-	-	0-10	0-40	
125	240,0	.2410/01/	-	0-16	0-40	-	-	0-5	0-25	
150	370,0	.2411/01/	-	0-8	0-16	0-40	-	-	0-10	
200	625,0	.2412/01/	-	-	0-8	0-40	-	-	0-4	
250	950,0	.2413/01/	-	-	-	0-16	-	-	-	
300	1400,0	.2414/01/	-	-	-	0-16	-	-	-	

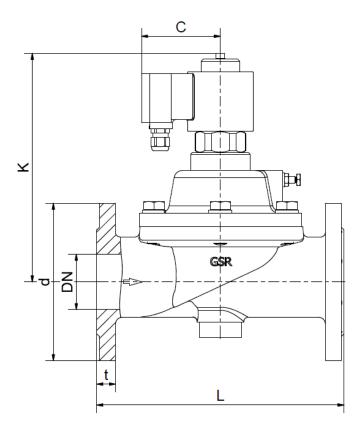
The flow rate mentioned in the table applies to the strongest coil. Max. pressure 16 bar with EN-GJL-250 body PN16

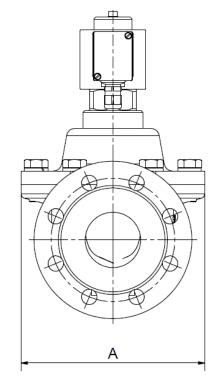




DIMENSIONS







coil	.242/.248		.272/.278						
Туре	.2407	.2408	.2407	.2408	.2409	.2410	.2411		
DN	65	80	65	80	100	125	150		
Α	215	245	215	245	270	235	265		
С	93	93	107	107	107	107	107		
d	185	200	185	200	235	270	285		
K	270	275	295	295	320	330	360		
L	290	310	290	310	350	400	480		
t	22	24	22	24	24	26	28		
kg	27,0	35,0	30,5	38,5	61,0	59,0	70,5		

coil	.352/.358						.402			
Type	.2407	.2408	.2409	.2410	.2411	.2412	.2411	.2412	.2413	.2414
DN	65	80	100	125	150	200	150	200	250	300
Α	215	245	270	235	265	345	265	345	415	500
С	127	127	127	127	127	127	158	158	158	158
d	185	200	235	270	285	340	285	340	405	460
K	380	390	380	390	450	485	615	on req.	on req.	on req.
L	290	310	350	400	480	600	480	600	730	850
t	22	24	24	26	28	34	28	34	38	42
kg	43,0	50,0	61,0	70,0	91,0	145,0	140,0	on req.	on req.	on req.

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(non-ATEX) 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 °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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Wolf Process Automation Limited Tel: +353 45 831575 Email: info@wpa.ie

Web: www.wpa.ie

