

typ:

35

2/2 solenoidový ventil nuceně řízený G1/4" - G3", max. 40 bar

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

Turns of control	Farsa wilst swareted					
Type of control	Force-pilot operated					
Design	Piston design					
Connection	Threaded G1/4 - G3 DIN ISO 228/1 (BSP)					
1 (11 (Further connections like NPT 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: -40 °C up to +80 °C Ambient: -40 °C up to +50 °C In consideration of the restrictions described on page 4					
Body material	Brass 2.0402 Stainless steel 1.4581					
Metallic inner parts	Brass and Stainless steel					
Sealing	PTFE					
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request					
Voltage tolerance	-10% / +10%					
Power consumption	.802 = 24 Watt					
Protection class	IP65 acc. to DIN 60529					
Duty factor	100% ED-VDE 0580					
Connection type	Plug, terminal box					
Ex-proof	acc. to 2014/34/EU (ATEX)					

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



2/2 solenoidový ventil nuceně řízený, řada 35, G1/4" - G3"

TECHNICAL FEATURES

				max. pressure for coils							
G Seat			Standard type	.802		.322*		.242		.272	
	Ø mm	value m³/h		NC	NO	NC	NO	NC	NO	NC	NO
1/4	13,5	1,8	.3521/04/	0-40	0-30	0-40	0-40	-	-	-	-
3/8	13,5	4,0	.3522/04/	0-40	0-30	0-40	0-40	-	-	-	-
1/2	13,5	4,5	.3523/04/	0-40	0-30	0-40	0-40	-	-	-	-
3/4	27,5	11,5	.3524/04/	0-16	0-12	0-40	0-25	0-40	0-40	-	-
1	27,5	13,0	.3525/04/	0-16	0-12	0-40	0-25	0-40	0-40	-	-
1 1/4	40	29,0	.3526/04/	-	-	0-25	0-16	0-35	0-35	0-40	0-40
1 1/2	40	33,0	.3527/04/	-	-	0-25	0-10	0-35	0-35	0-40	0-40
2	50	49,0	.3528/04/	-	-	0-6	-	0-16	0-16	0-40	0-40
2 1/2	65	75,0	.3529/1004/	-	-	0-6	-	0-10	0-10	0-10	0-10
3	80	97,0	.3530/1004/	-	-	-	-	0-10	0-10	0-10	0-10

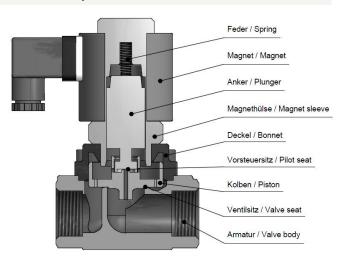
The flow rate mentioned in the table applies to the strongest coil.

^{*} Pressure ratings with options like manual override or position indicator may be lower.

				max. pressure for coils ATEX 🚱					
G	Seat Ø mm	Kv-value m³/h	Standard type	.808	.328*	.248	.278	.358	
1/4	13,5	1,8	.3521/04/	0-30	0-40	-	-	-	
3/8	13,5	4,0	.3522/04/	0-30	0-40	-	-	-	
1/2	13,5	4,5	.3523/04/	0-30	0-40	-	-	-	
3/4	27,5	11,5	.3524/04/	0-12	0-25	0-40	-	-	
1	27,5	13,0	.3525/04/	0-12	0-25	0-40	-	-	
1 1/4	40	29,0	.3526/04/	-	0-16	0-25	0-40	-	
1 1/2	40	33,0	.3527/04/	-	0-16	0-25	0-40	-	
2	50	49,0	.3528/04/	-	0-2	0-10	0-16	0-40	
2 1/2	65	75,0	.3529/1004/	-	-	0-2	0-10	-	
3	80	97,0	.3530/1004/	-	-	0-2	0-10	-	

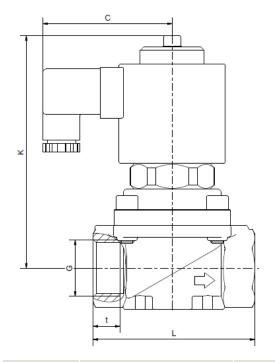
The flow rate mentioned in the table applies to the strongest coil.

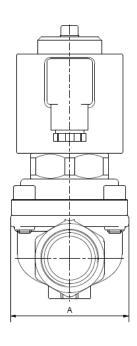
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DIMENSIONS





Coil	.802 /	.808*		.322 /	.242 / .248			
Туре	.3521-23	.3524-25	.3521-23	.3524-25	.3526-27	.3528	.3524-25	.3526-27
G	1/4-1/2	3/4-1	1/4-1/2	3/4-1	1 1/4-1 1/2	2	3/4-1	1 1/4-1 1/2
Α	48	70	48	70	96	112	70	96
С	70	70	77	77	77	77	93	93
K	104	122	148	138	148	183	178	189
L	67	96	64	96	140	168	96	140
t	12	16	12	16	22	22	16	22
kg	1,3	2,1	2,4	3,0	5,0	6,5	4,7	6,5

*Differing dimension "C" for ATEX-coils

Coil		.242 / .248			.352 / .358			
Type	.3528	.3529	.3530	.3526-27	.3528	.3529	.3530	.3528
G	2	2 1/2	3	1 1/4-1 1/2	2	2 1/2	3	2
Α	112	on req.	on req.	96	112	on req.	on req.	112
С	93	93	93	107	107	107	107	107
K	194	232	236	220	238	280	260	306
L	168	175	200	140	168	175	200	168
t	22	22	22	22	22	22	22	22
kg	7,5	9,0	11,0	10,0	12,5	13,0	14,0	23,0

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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 °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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