

Technical Data Sheet Type 46



2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Pilot operated piston design 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 high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, no pressure difference required				
Design	Piston design				
Connection	Threaded G1/4 - G1/2 DIN ISO 228/1 (BSP) Further connections like NPT on request				
Installation	Preferable with actuator upright				
Pressure	1 - 100 bar (see table on page 2)				
Medium	Clean, neutral, gaseous and liquid media				
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	Stainless steel 1.4581				
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	.012 = 18 Watt .148 = 10 Watt				
Protection class	IP65 acc. to DIN 60529				
Duty factor	100% ED-VDE 0580				
Connection type	Plug				
Ex-proof	acc. to 2014/34/EU (ATEX) Further Ex-proof on request				

VALVE FEATURES

- For high pressure applications up to 100 bar
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non energized closed

NO - non-energized open





CERTIFICATES



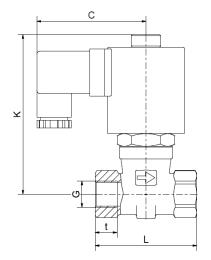


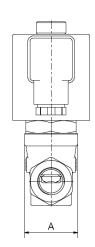


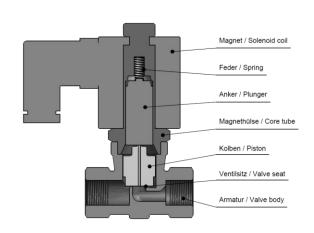




				max.	pressure for	coils	max. pre	essure for co	ils ATEX
G	Seat Ø mm	Kv-value m³/h	Standard type	.012	.802	.802-NO	.148	.808	.808-NO
1/4	8,0	1,0	.4621/0804/	5-80	1-100	1-70	5-60	1-100	1-70
3/8	8,0	1,2	.4622/0804/	5-80	1-100	1-70	5-60	1-100	1-70
1/2	8,0	2,0	.4623/0804/	5-80	1-100	1-70	5-60	1-100	1-70







Coil		.012 /.148*			.802 /.808*	
Type	4621	4622	4623	4621	4622	4623
G	1/4	3/8	1/2	1/4	3/8	1/2
Α	34	34	34	34	34	34
С	61	61	61	70	70	70
K	91	91	91	102	102	102
L	65	65	65	65	65	65
t	14	14	14	14	14	14
kg	0,7	0,65	0,6	1,2	1,15	1,1
*Differing dimens	sion "C" for ATEX-c	oils				



- 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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Stand: 02.18, MK-MG, Version 1.



Technical Data Sheet Type 3/045



3/2-way Solenoid valve UN - Universal design

Direct operated Design. 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 high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Direct operated
Design	Poppet design
Connection	Threaded G1/8 - G1/2 DIN ISO 228/1 (BSP) Further connections like NPT on request
Installation	With actuator upright
Pressure	0 - 250 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
max. 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	Stainless steel 1.4571
Metallic inner parts	Brass and Stainless steel
Sealing	PEEK
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	.272 = 100 Watt .278 = 47 Watt & .352 = 150 Watt .358 = 75 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) Further Ex-proof on request

VALVE FEATURES

- For high pressure applications up to 250 bar
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC – non pressurized closed

NO - non-pressurized open





CERTIFICATES





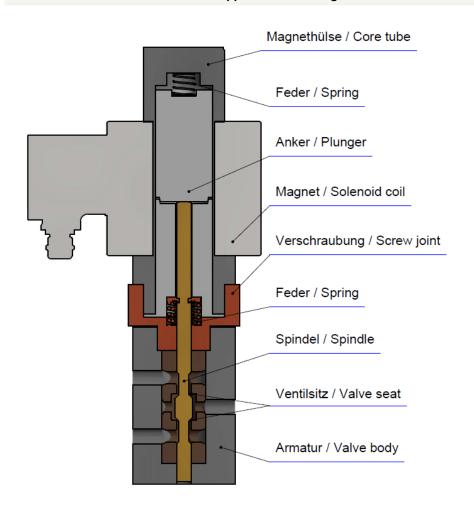


		Туре				Conr	nect.		Ноц	ısing	Se	eal			Actu	ator	
3	/	0	4	5	-	2	3	-	0	8	1	5	-		2	7	2
					21 22	G 1/8 G 1/4 G 3/8 G 1/2			08	St.ste	el 1.4 15	571 PEEK		8	Stand Explo acc. t 2014/3	sion p o dire	roof

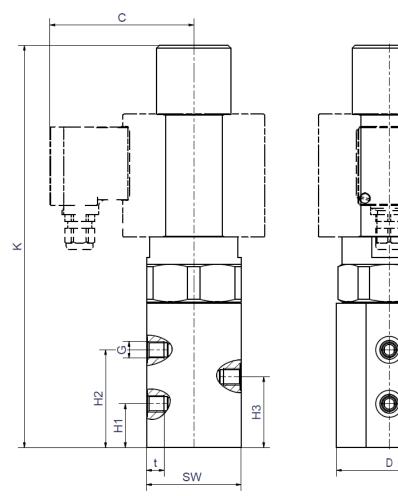


				max. press	ure for coils		ure for coils EX
G	Seat Ø mm	Kv-value m³/h	Standard type	.272	.352	.278	.358
1/8	10,0	1,2	3/045-20-0815-	0-200	0-250	0-150	0-210
1/4	10,0	1,2	3/045-21-0815-	0-200	0-250	0-150	0-210
3/8	10,0	1,2	3/045-22-0815-	0-200	0-250	0-150	0-210
1/2	10,0	1,2	3/045-23-0815-	0-200	0-250	0-150	0-210

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







Coil		.272	/ .278			.352	/ .358	
Type	3/045-20	3/045-21	3/045-22	3/045-23	3/045-20	3/045-21	3/045-22	3/045-23
G	1/8	1/4	3/8	1/2	1/8	1/4	3/8	1/2
С	107	107	107	107	127	127	127	127
K	299	299	299	299	332	332	332	332
D	78	78	78	78	78	78	78	78
SW	70	70	70	70	70	70	70	70
H1	32,5	32,5	32,5	32,5	32,5	32,5	32,5	32,5
H2	72,5	72,5	72,5	72,5	72,5	72,5	72,5	72,5
НЗ	52,5	52,5	52,5	52,5	52,5	52,5	52,5	52,5
t	12,5	13,0	13,0	15,0	12,5	13,0	13,0	15,0
kg	10,9	11,3	11,2	10,8	22,6	22,6	22,6	22,5



- 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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Stand: 04.18, MK-MG, Version 1.



Technical Data Sheet Type 2/529



2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Pilot operated piston design. 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 high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, pressure difference is required
Design	Piston design
Connection	Threaded G1/4 - G2 DIN ISO 228/1 (BSP) Other connections like NPT on request
Installation	Preferable with actuator upright
Pressure	1 - 450 bar (see table page 2)
Medium	Clean, neutral, gaseous and liquid medium
max. viscosity	22 mm²/s
Temperature range	Medium: -40 °C bis +80 °C Ambient: -40 °C bis +50 °C In consideration of the restrictions described on page 4
Body material	Stainless steel 1.4571
Metallic inner parts	Stainless steel
Sealing	PTFE, PEEK at the seat
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Power consumption	.802 = 24 Watt .848 = 23 Watt .322 = 30 Watt .328 = 24 Watt .242 = 46 Watt .248 = 30 Watt .248
Type of control	IP65 acc. to DIN 60529
Duty factor	100% ED-VDE 0580
Connection type	Plug / Terminal box
Ex-proof	acc. to 2014/34/EG(ATEX) Further Ex-proof on request

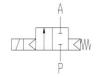
VALVE FEATURES

- For high pressure applications up to 450 bar
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non energized closed

NO - non-energized open





CERTIFICATES







Special design for a temperature range**up to +180** °C and as pressure operating valve **up to 600 bar** available Specifications and drawings on request.

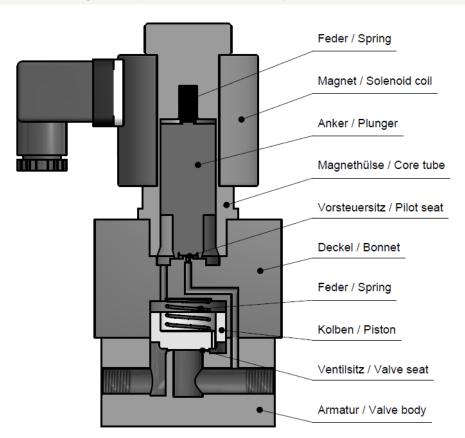
ORDERING SYSTEM

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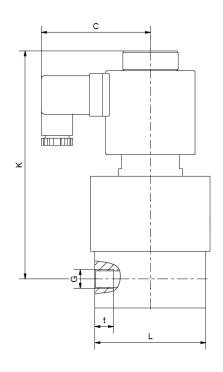
				max.	pressure for	coils	max. press	ure for coils@)
G	Seat Ø mm	Kv-value m³/h	Standard type	.802	.322	.242	.848	.328	.248
1/4	12	1,8	2/529-21-0815-	1-150	1-300	1-450	1-150	1-250	1-350
3/8	12	3,3	2/529-22-0815-	1-150	1-300	1-450	1-150	1-250	1-350
1/2	12	3,8	2/529-23-0815-	1-150	1-300	1-450	1-150	1-250	1-350
3/4	25	11,5	2/529-24-0815-	1-150	1-220	1-450	1-150	1-220	1-350
1	25	13,0	2/529-25-0815-	1-150	1-220	1-450	1-150	1-220	1-350
1 1/4	40	22,0	2/529-26-0815-	-	-	1-330	-	-	1-250
1 1/2	40	24,0	2/529-27-0815-	-	-	1-330	-	-	1-250
2	50	32,0	2/529-28-0815-	-	-	1-330	-	-	1-250

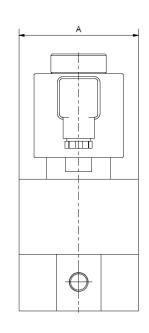
The flow rate mentioned in the table applies to the strongest coil. Pressure ratings with option manual override may be lower.



DIMENSIONS







Coil			.802/.808*					.322/.328*		
Type	2/529-21	2/529-22	2/529-23	2/529-24	2/529-25	2/529-21	2/529-22	2/529-23	2/529-24	2/529-25
G	1/4	3/8	1/2	3/4	1	1/4	3/8	1/2	3/4	1
Α	84	84	84	110	110	84	84	84	110	110
С	70	70	70	70	70	77	77	77	77	77
K	143,5	143,5	151,5	159	159	161	161	161	176	176
L	78	78	78	101	101	78	78	78	101	101
t	13	13	15	16	18	13	13	15	16	18
kg	3,8	3,8	4,0	6,6	6,4	5,2	5,2	5,2	7,8	7,7

*Differing dimension "C" for ATEX-coils

Coil				.242	/.248			
Type	2/529-21	2/529-22	2/529-23	2/529-24	2/529-25	2/529-26	2/529-27	2/529-28
G	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Α	84	84	84	110	110	155	155	170
С	92,5	92,5	92,5	92,5	92,5	92,5	92,5	92,5
K	181,5	181,5	181,5	200	200	228	228	242
L	78	78	78	101	101	140	140	155
t	13	13	15	16	18	22	22	27
kg	6,7	6,6	6,6	9,3	9,3	18,8	18,6	24,6



- 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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Stand: 08.19, MK-MG, Version 1.



Technical Data Sheet Type 8/000



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

Pilot operated Piston design. 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 high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Pilot operated, pressure difference necessary
Design	Piston design
Connection	Threaded G1/4 & G1/2 DIN ISO 228/1 (BSP) Further connections like NPT on request
Installation	Preferable with actuator upright
Pressure	5 - 350 bar (see table on page 2)
Medium	Clean and neutral gases Optional for liquids
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	Stainless steel 1.4301
Metallic inner parts	Stainless steel
Sealing	PEEK
Supply voltage	AC~ 24V, 110V, 230V DC= 12V, 24V Other supply voltages on request
Voltage tolerance	-10% / +10%
Voltage tolerance Power consumption	
Power	-10% / +10% .032 = 11 Watt .012 = 18 Watt .048 = 10 Watt
Power consumption	-10% / +10% .032 = 11 Watt .012 = 18 Watt .048 = 10 Watt & .148 = 10 Watt &
Power consumption Protection class	-10% / +10% .032 = 11 Watt .012 = 18 Watt .048 = 10 Watt (a) .148 = 10 Watt (b) IP65 acc. to DIN 60529

VALVE FEATURES

- For high pressure applications up to 350 bar
- Pressure difference is required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements
- Option WA: for liquids

FUNCTION

NC - non energized closed



CERTIFICATES





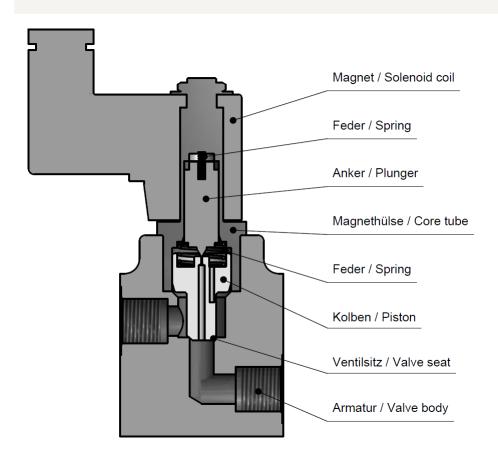


Special design for liquids available Specifications and drawings on request.

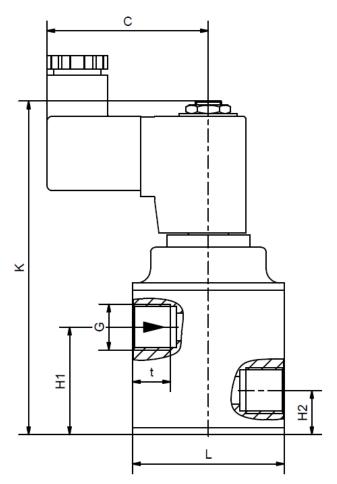


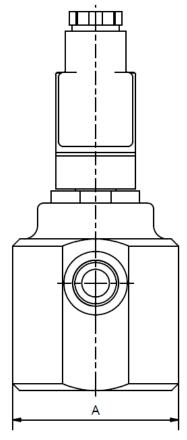


				max. pressure for coils		oils max. pressure with option WA with coily type		
G	Seat Ø mm	Kv-value m³/h	Standard type	.032	.148 / .048	.032	.012	.148 / .048
1/4	8	1,2	8/000-48	5-350	5-350	3-80	3-150	3-80
3/8	8	1,2	8/000-58	5-350	5-350	3-80	3-150	3-80
1/2	8	1,2	8/000-68	5-350	5-350	3-80	3-150	3-80
1/2	15	2,5	8/000-23	5-350	5-350	3-80	3-150	3-80









Coil	.032 / .012 / .048 / .148						
Туре	8/000-48	8/000-58	8/000-68	8/000-23			
G	1/4	3/8	1/2	1/2			
Α	60	60	72	72			
С	59	59	59	59			
H1	39	39	39	39			
H2	16	16	16	16			
K	121	121	121	121			
L	55	54	65	65			
t	13,5	13,5	15	15			
kg	1,5	1,5	2	2,1			
*Differing dimension "C" for ATEX-coils							



- 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.
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Heating and power of solenoid coils

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- 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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Stand: 03.19, MK-MG, Version 1.



Technical Data Sheet Type 8/100



2/2-way pressure controlled valve NC - Valve normally closed

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

In standard (NC) the valve closes with spring power.

Pressure controlled valve for high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Piston design
Connection	Threaded G1/8 - G1/4 - DIN ISO 228/1 (BSP)
	Threaded 7/16 UNF - 9/16 UNF (Autoclave)
Installation	Preferable with actuator upright
Pressure	0 - 1200 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid media
Viscosity	22 mm²/s
Temperature range	Medium: -40 °C up to +80 °C Ambient: -40 °C up to +60 °C
Body material	Stainless steel1.4301
Metallic inner parts	Stainless steel
Sealing	PEEK, metallic
Pilot pressure	4 - 10 bar
Pilot medium	Clean and neutral gases

Pilot valve

A7231/1002/....



3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

- For high pressure applications up to 1200 bar
- No pressure difference required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non energized closed



CERTIFICATES

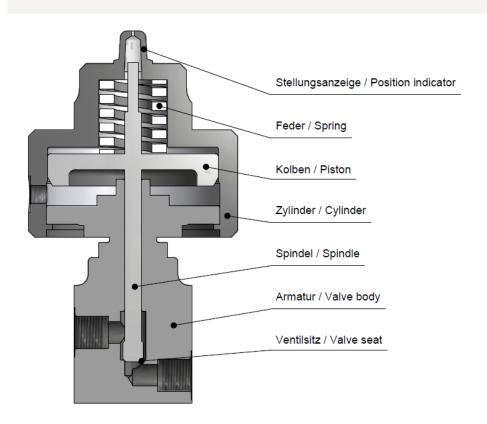




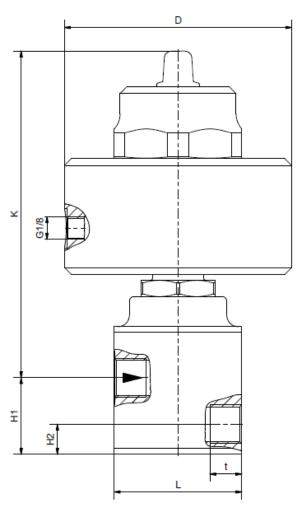


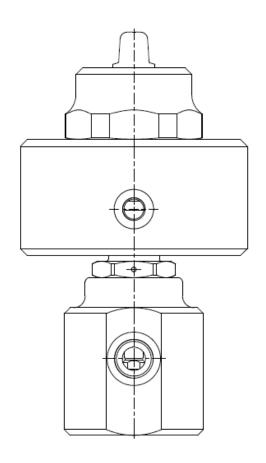


					max. pressure	with actuator	
G	Seat Ø mm	Kv-value m³/h	Standard type	7303	7505	7008	7013
1/8	1,0		8/100-31-1215	0-500	-	-	-
1/4	4,0		8/100-45-1215	-	0-500	-	-
1/4	8,0		8/100-49-1215	-	-	0-400	-
7/16 UNF	0,5		8/100-3E-1215TT	0-1000	-	-	-
9/16 UNF	4,0		8/100-45-1215TT	-	-	0-700	-
9/16 UNF	8,0		8/100-49-1215TT	-	-	-	0-1200









Туре	8/100-31	8/100-45	8/100-49	8/100-3E-TT	8/100-45-TT	8/100-49-TT
G	1/8	1/4	1/4	7/16 UNF	9/16 UNF	9/16 UNF
D	on request	61	98	on request	98	149
K		143	141		141	192
H1		33	33		33	33
H2		13	13		13	13
L		55	55		55	55
t		13,5	13,5		10	10
kg		2,3	2,6		2,6	4,9



- 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.

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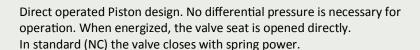
Stand: 01.17, MK-MG, Version 1.



Technical Date Sheet Type 52-S

2/2-way solenoid valve

NC - Valve normally closed (Standard) NO - Valve normally open (optional)



Solenoid valve for high pressure applications up to 150 bar



TECHNICAL SPECIFICATIONS

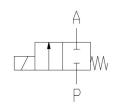
TECHNICAL SPECIFICATIONS					
Type of control:	Direct operated				
Design:	Piston design				
Connection:	Threaded G1/4 DIN ISO 228 (BSP) Other connections like NPT on request				
Installation:	Preferable with actuator upright				
Pressure range:	0 - 150 bar (see table on page 2)				
Medium:	Clean, neutral, liquid or gaseous				
Viscosity:	22 mm²/s				
Temperature range:	Medium -40°C bis $+80^{\circ}\text{C}$ Ambient -40°C bis $+50^{\circ}\text{C}$ The max.ambient temperature depends on the combined operating conditions.				
Body material:	Brass 2.0401 Stainless steel 1.4305 Stainless steel 1.4571				
Metallic inner parts:	Brass and stainless steel				
Sealing:	PTFE				
Supply voltage:	AC~ 24V, 110V, 230V DC= 12V, 24V, 110V Othersupply voltages on request				
Voltage tolerance:	-10%/+10%				
Power consumption:	.032 = 11 Watt .148 = 10 Watt .012 = 18 Watt				
Protection dass:	IP65 acc. to DIN EN 60529				
Duty factor:	100% ED-VDE 0580				
Connection type:	Plug				
Ex-proof:	acc. to 2014/34/EG (ATEX)				

VAIVE FEATURES

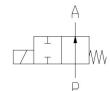
- For high pressure applications up to 150 bar
- No pressure difference necessary
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non-energized closed



NO - non-energized open



CERTIFICATES





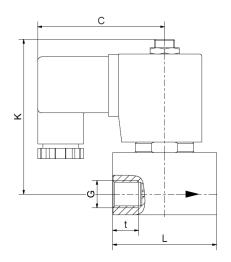


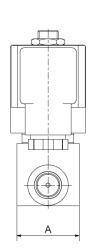




		max. pressure for coils						
Orifice	Kv-value	Standard type	.03	2-S	.012	2-S	.148-S	(ATEX)
mm	m³/h		NC	NO	NC	NO	NC	NO
1,0	0,06	.5240/04/	0-150	-	0-150	0-150	0-150	0-150
1,2	0,08	.524L/04/	0-90	-	0-130	0-130	0-60	0-90
1,5	0,09	.5241/04/	-	-	0-120	-	-	-

DIMENSIONS





Coil	.032	.012 / .148*			
G	1/4	1/4			
Α	30	30			
С	59	61			
К	75	75			
L	50	50			
t	12	12			
kg	0,35	0,35			
* Different dimension "C" for ATEX-coils					

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.

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Technical Data Sheet Type 55

G S R Ventiltechnik

2/2-way solenoid valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Direct operated piston design. 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 high pressure applications

TECHNICAL SPECIFICATIONS

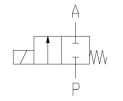
Type of control:	Direct operated			
Design:	Piston design			
Connection:	Threaded G1/4 DIN ISO 228 (BSP) Other connections like NPT on request			
Installation:	Preferable with actuator upright			
Pressure range:	0-900 bar (see table on pages 2 & 3)			
Medium:	Clean, neutral, liquid or gaseous			
Viscosity:	22 mm²/s			
Temperature range:	Medium -40 °C bis +80 °C Ambient -40 °C bis +50 °C The max.ambient temperature depends on the combi- ned operating conditions.			
Body material:	Brass 2.0401 Stainless steel 1.4301 Stainless steel 1.4462 Stainless steel 1.4571			
Metallic inner parts:	Brass and stainless steel			
Sealing:	PTFE, PEEK, PCTFE, XHPU			
Supply voltage:	AC~ 24V, 110V, 230V DC= 12V, 24V, 110V Other supply voltages on request			
Voltage tolerance:	-10%/+10%			
Power consumption:	.032 = 11 Watt .148 = 10 Watt .012 = 18 Watt .702 = 25 Watt .692 = 25 Watt .802 = 24 Watt .322 = 30 Watt .328 = 24 Watt .242 = 46 Watt .248 = 30 Watt			
Protection dass:	IP65 acc. to DIN EN 60529			
Duty factor:	100% ED-VDE 0580			
Connection type:	Plug, terminal box			
	acc. to 2014/34/EG (ATEX)			

VAIVE FEATURES

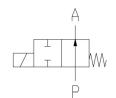
- For high pressure application 900 bar
- No pressure difference required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non energized closed



NO - non-energized open

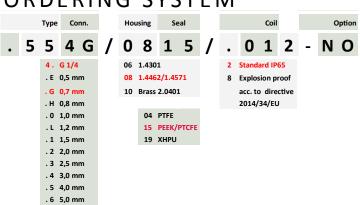


CERTIFICATES







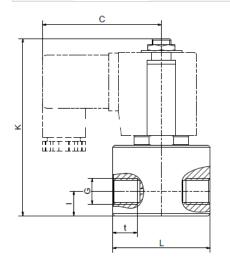


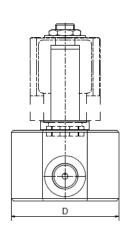
TECHNICAL FEATURES // DIMENSIONS



[with coils .032 // .012 // .148]

					max. press	ure for coils		
Seat	Kv-value	Standard type	.03	32-S	.01	.2-S	.148-S	(ATEX)
mm	m³/h		NC	NO	NC	NO	NC	NO
0,5	0,015	.554E/0615/	0-300	0-300	-	-	0-250	0-250
0,7	0,02	.554G/0615/	0-210	0-210	0-500	0-500	0-170	0-170
0,8	0,025	.554H/1004(0615)/	0-170	-	0-250	0-250	0-170	0-170
1,0	0,06	.5540/1004(0604)/	-	-	0-200	0-200	-	-



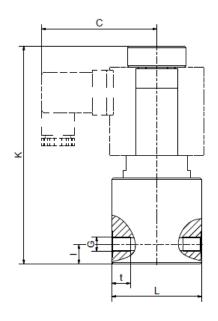


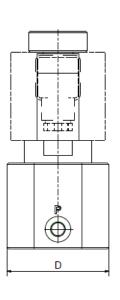
Coil	.032-S	.012-S / .148-S*			
G	1/4	1/4			
С	59	61			
D	68	68			
K	90,5	90,5			
I	12,5	12,5			
L	60	60			
t	12,5	12,5			
kg	0,9	0,9			
* Different dimension "C" for ATEX coils					

TECHNICAL FEATURES // DIMENSIONS

[with coils .802 // .808]

			max. pressure for coils			
Seat	Kv-value	Standard type	.802	.808 (ATEX)		
mm	m³/h		NC	NC		
0,5	0,015	.554E/0815/	0-900	0-900		
0,7	0,02	.554G/0815/	0-600	0-500		
0,8	0,025	.554H/0815/	0-450	0-350		





Coil	.802 / .808*		
G	1/4		
С	70		
D	68		
K	122		
I	12,5		
L	60		
t	12,5		
kg	1,9		
* Different dimension "	C" for ATEX coils		

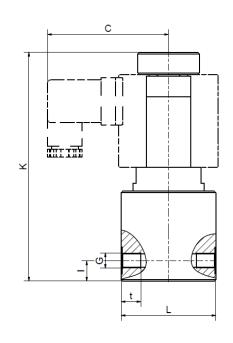
TECHNICAL FEATURES // DIMENSIONS

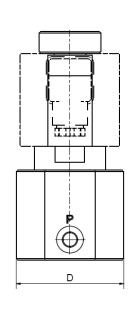


[with coils .702 // .692-NO // .802 // .322 // .242] [with coils acc. to ATEX // .808 // .328 // .248]

Brass	Brass max. pressure for coils															
Seat	Kv-value	Standard	.702	.692	.8	02	.808 (ATEX)	.3	22	.328 (ATEX)	.2	42	.248 (ATEX)
mm	m³/h	type	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
1,0	0,06	.5540/1004/	-	-	0-200	0-100	0-200	0-100	0-200	0-200	-	-	-	-	-	-
1,5	0,09	.5541/1004/	0-100	0-80	0-140	0-80	0-140	0-80	0-200	0-180	0-120	0-80	-	-	-	-
2,0	0,13	.5542/1004/	0-80	0-40	0-100	0-50	0-100	0-50	0-180	0-160	0-90	0-70	0-200	0-200	0-200	0-200
2,5	0,16	.5543/1004/	0-50	0-28	0-50	0-40	0-50	0-40	0-110	0-110	0-60	0-60	0-200	0-180	0-200	0-100
3,0	0,2	.5544/1004/	0-35	0-20	0-40	0-25	0-40	0-25	0-80	0-100	0-40	0-40	0-150	0-120	0-150	0-70
4,0	0,35	.5545/1004/	0-16	0-12	0-25	0-15	0-25	0-15	0-40	0-35	0-25	0-25	0-100	0-60	0-80	0-60
5,0	0,5	.5546/1004/	0-12	0-6	0-16	0-9	0-16	0-9	0-28	0-20	0-12	0-12	0-60	0-40	0-40	0-30
6,0	0,75	.5547/1004/	0-10	0-4	0-12	0-6	0-10	0-6	0-20	0-14	0-10	0-10	0-45	0-30	0-25	0-20

Stair	Stainless steel max. pressure for coils															
Seat	Kv-value	Standard	.702 /	.692	.8	02	.808 (ATEX)	.3	22	.328 (ATEX)	.2	42	.248 (ATEX)
mm	m³/h	type	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
1,0	0,06	.5540/06/	-	-	0-350	0-100	0-200	0-100	0-350	0-350	0-300	0-200	0-450	0-400	0-450	0-350
1,5	0,09	.5541/06/	0-100	0-80	0-140	0-80	0-140	0-80	0-330	0-180	0-120	0-80	0-410	0-300	0-320	0-250
2,0	0,13	.5542/06/	0-80	0-40	0-100	0-50	0-100	0-50	0-180	0-160	0-90	0-70	0-300	0-200	0-250	0-200
2,5	0,16	.5543/0604/	0-50	0-28	0-50	0-40	0-50	0-40	0-110	0-110	0-60	0-60	0-200	0-180	0-200	0-100
3,0	0,2	.5544/0604/	0-35	0-20	0-40	0-25	0-40	0-25	0-80	0-100	0-40	0-40	0-150	0-120	0-150	0-70
4,0	0,35	.5545/0604/	0-16	0-12	0-25	0-15	0-25	0-15	0-40	0-35	0-25	0-25	0-100	0-60	0-80	0-60
5,0	0,5	.5546/0604/	0-12	0-6	0-16	0-9	0-16	0-9	0-28	0-20	0-12	0-12	0-60	0-40	0-40	0-30
6,0	0,75	.5547/0604/	0-10	0-4	0-12	0-6	0-10	0-6	0-20	0-14	0-10	0-10	0-45	0-30	0-25	0-20





Coil	.702 / .692	.802 / .808*	.322 / .328	.242 / .248
G	1/4	1/4	1/4	1/4
С	67	70	77	92,5
D	68	68	68	68
K	109	113	145	166
I	12,5	12,5	13	13
L	60	60	60	60
t	12,5	12,5	12,5	12,5
kg	1,9	2,0	3,0	4,4
* Different	dimension (C" for ATEX co	nils	



- 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.

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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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Status: 08.18, MK-MG, Version 1.



Technical Data Sheet Type 1/041



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 high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Force-pilot operated				
Design	Piston design				
Connection	Threaded G1/4 - G2 DIN ISO 228/1 (BSP) Further connections like NPT on request				
Installation	With actuator upright				
Pressure	0 - 130 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: -10 °C up to +50 °C In consideration of the restrictions described on page 4				
Body material	Brass 2.0401 Stainless steel 1.4408				
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	.242 = 46 Watt .248 = 30 Watt .272 = 100 Watt .278 = 47 Watt .352 = 150 Watt .358 = 75 Watt .358				
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) Further Ex-proof on request				

VALVE FEATURES

- For high pressure applications up to 450 bar
- No pressure difference required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements
- Pneumatic actuator on request

FUNCTION

NC - non energized closed

NO - non-energized open





CERTIFICATES









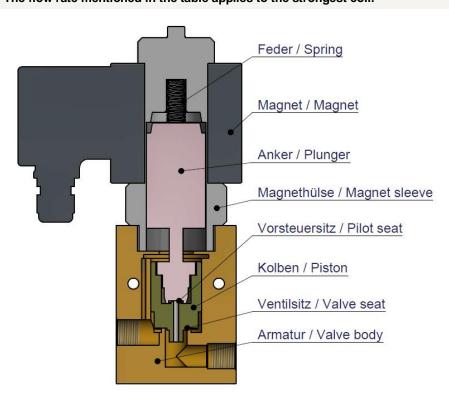


				m	ax. pressure for co	ils
G	Seat Ø mm	Kv-value m³/h	Standard type	.242	.272	.352
1/4	13	1,8	1/041-2104-	0-70	0-100	0-130
3/8	13	3,3	1/041-2204-	0-70	0-100	0-130
1/2	13	3,8	1/041-2304-	0-70	0-100	0-130
3/4	25	11,5	1/041-2404-	0-70	0-100	0-100
1	25	13,0	1/041-2504-	0-70	0-100	0-100
1 1/4	32	22,0	1/041-2604-	-	0-70	0-100
1 1/2	40	24,0	1/041-2704-	-	0-70	0-100
2	50	32,0	1/041-2804-	-	0-70	0-80

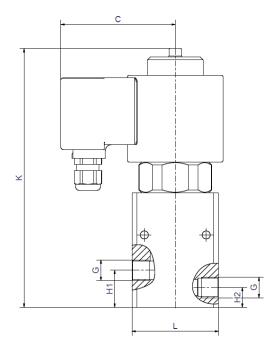
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The flow rate mentioned i	in the table	abblies to the	s stronuest con.

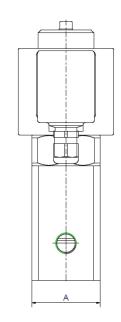
				max. pressure for	or coils ATEX 🐼
G	Seat Ø mm	Kv-value m³/h	Standard type	.278	.358
1/4	13	1,8	1/041-2104-	0-70	0-100
3/8	13	3,3	1/041-2204-	0-70	0-100
1/2	13	3,8	1/041-2304-	0-70	0-100
3/4	25	11,5	1/041-2404-	0-70	0-100
1	25	13,0	1/041-2504-	0-70	0-100
1 1/4	32	22,0	1/041-2604-	-	0-70
1 1/2	40	24,0	1/041-2704-	-	0-70
2	50	32,0	1/041-2804-	-	0-70

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









Coil	242	.242 / .248 .272 / .278						
			1/0.11.01/.00					
Type	1/041-21(-23)	1/041-24(-25)	1/041-21(-23)	1/041-24(-25)	1/041-26(-27)	1/041-28		
G	1/4 - 1/2	3/4 - 1	1/4 - 1/2	3/4 - 1	1 1/4 - 1 1/2	2		
С	92	92	106	106	106	106		
H1	30	45	30	45	33	38,5		
H2	16	25	16	25	33	38,5		
K	210	255	252	260	310	297		
Α	55	65	55	65	96	119		
L	70	100	70	100	140	168		
t	14	17	14	17	22	24		
kg	5,2	9,0	9,0	12,0	15,0	21,2		

Coil		.352	/ .358	
Type	1/041-21(-23)	1/041-24(-25)	1/041-26(-27)	1/041-28
G	1/4 - 1/2	3/4 - 1	1 1/4 - 1 1/2	2
С	126	126	126	126
H1	30	45	33	38,5
H2	16	25	33	38,5
K	326	359	368	363
Α	55	65	96	119
L	70	100	140	168
t	14	17	22	24
kg	22,0	24,5	27,0	48,6



- 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

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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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Stand: 12.17, MK-MG, Version 1.



Technical Data Sheet Type 75HD



3/2-Way solenoid valve

In rest position P is normally closed towards A and A is normally open towards R.

When energized the solenoid lifts the sealing element from the valve seat and opens P towards A and closes A towards R.

The valve works without pressure difference. The valve resets by spring power.

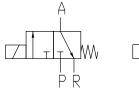
■ Solenoid valve for neutral, gaseous and liquid media

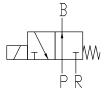
TECHNICAL SPECIFICATIONS VALVE FEATURES

Type of control:	direct acting, no press	ure difference is required			
Design:	Piston design				
Connection:	Threaded G ¹ / ₄ , DIN ISO Other sizes and connections				
Installation:	Actuator only in uprig	ht position			
Pressure:	0-300 bar (see table page 2)				
Medium:	Clean, neutral, gaseou	us and liquid medium			
Viscosity:	22 mm²/s				
Temperature range:	Medium: -30 °C up to Ambient: -30 °C up to In consideration of the restri	o +50 °C			
Body material:	Brass 2.0401 Stainless steel 1.4301 (AISI 304)				
Metallic inner parts:	Brass and Stainless steel				
Sealing:	PTFE, Optional: PEEK				
Supply voltage:	AC~ 24V, 110V, 230V DC= 12V, 24V, 110V Other supply voltages on rec				
Voltage tolerance:	-10% / +10%				
Power consumption:	.802 = 24 Watt .322 = 30 Watt .242 = 46 Watt	.808 = 24 Watt			
Protection class:	IP65 according to DIN	EN 60529			
Duty factor:	100% ED-VDE 0580				
Connection type:	Plug / Terminal box				
Ex-proof:	Ex e mb II T4 Further Ex-proof on request.				

- For high pressure applications up to 300 bar
- No pressure difference is required
- High life time
- Simple compact valve design
- Reliable and sturdy sealing elements
- Long-term availability of spare parts
- High-quality materials
- NO (non energized open) on request

FUNCTION





CERTIFICATES



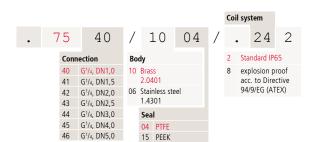






In special design also available for temperatures up to +180 °C.

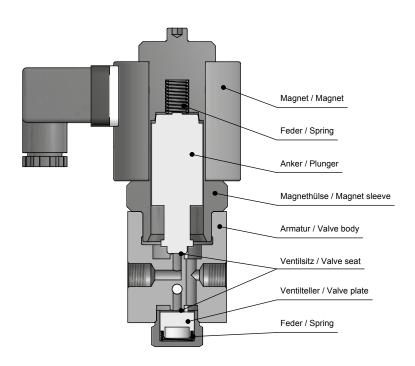
Specifications and drawings on request.



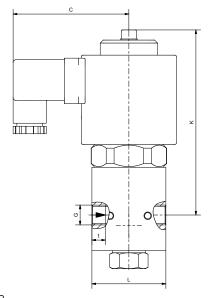


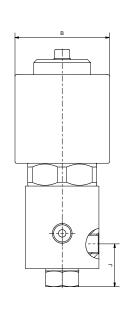
						max. pressure			
G	Seat Ø mm	Kv-value m³/h	Standard type				ATEX 😥		
				.802	.322	.242*	.808.	.248	
1/4	1,0	0,06	.7540/04/	0-100	0-160	0-300	0-100	0-300	
1/4	1,5	0,09	.7541/04/	0-75	0-130	0-280	0-75	0-210	
1/4	2,0	0,13	.7542/04/	0-45	0-100	0-250	0-45	0-180	
1/4	2,5	0,16	.7543/04/	0-28	0-75	0-200	0-28	0-160	
1/4	3,0	0,20	.7544/04/	0-20	0-60	0-150	0-20	0-90	
1/4	4,0	0,35	.7545/04/	0-16	0-20	0-85	0-16	0-60	
1/4	5,0	0,50	.7546/04/	0-16	0-20	0-55	0-16	0-38	

The flow rate mentioned in the table applies to the *marked coil.



Coil	.802/ .808*	.322	.242/ .248*						
Type	754.	754.	754.						
G	1/4	1/4	1/4						
В	49	63	77						
С	70	77	93						
J	28,5	28,5	38						
K	90	122	142						
L	50x50	50x50	60x60						
t	9	9	12						
kg	1,5	2,1	4,7						
*Differing di	mension "C" for AT	EX-coils							







- 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

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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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State: 11/2015, MK-MG, Version 2.





Technical Data Sheet Type 2/529PN



2/2-way pressure operated valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

Pilot operated piston design valve. The mentioned minimum pressure difference between inlet and outlet is necessary for proper operation.

In standard (NC) the valve closes with spring power.

Pressure controlled valve for high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Pilot-pressure operated				
Design	piston design valve				
Connection	Threaded G1/2 - G2 DIN ISO 228/1 (BSP)				
Installation	Preferable with actuator upright				
Pressure	1 - 600 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: -10 °C up to +60 °C				
Body material	Stainless steel 1.4571				
Metallic inner parts	Stainless steel				
Sealing	PEEK				
Pilot pressure	4 - 10 bar max pressure with at least 6 bar				
Pilot medium	Clean and neutral gases Other pilot media on request				

Pilot valve

2/131-31-1702-C182



3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Aluminum / Stainless steel / FKM with Cnomo-coil as well as with integrated screw connection for easy assembly

A7231/1002/....



3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

- For high pressure applications up to 600 bar
- Pressure difference is required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non pressurized closed

NO – non pressurized open





CERTIFICATES

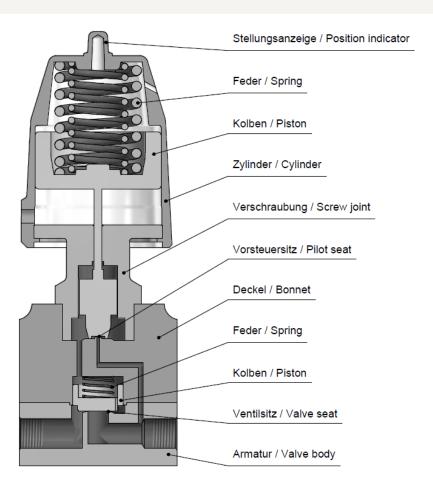




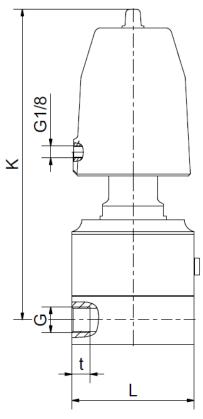
		_	\	•••	•		•		•		•						
		Туре				Coni	nect.		Hou	using	S	eal			Actu	ator	
2	/	5	2	9	-	2	3	-	0	8	1	5	-	7	5	0	5
						G 1/2 G 3/4			08	St.ste	el 1.4	571		7. No 8. No		closed open	d
					26 27	G 1 G 1 1 G 1 1 G 2					15	PEEK		. 3 Ac	t. Stair	l actuat nless s n. nick	teel
					20											. 5 50	

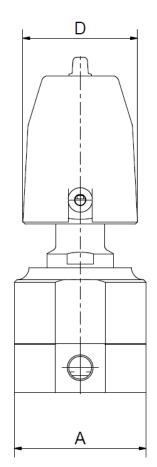


G Seat Ø mm Kv-value m³/h Standard type 7505 7008 1/2 13 3,8 2/529-23-0815- 1-300 1-600 3/4 25 11,5 2/529-24-0815- 1-300 1-600 1 25 13,0 2/529-25-0815- 1-300 1-600 1 1/4 32 22,0 2/529-26-0815- 1-200 1-600 1 1/2 40 24,0 2/529-27-0815- 1-200 1-600 2 50 32,0 2/529-28-0815- 1-200 1-600					max. pressure	with actuator
3/4 25 11,5 2/529-24-0815- 1-300 1-600 1 25 13,0 2/529-25-0815- 1-300 1-600 1 1/4 32 22,0 2/529-26-0815- 1-200 1-600 1 1/2 40 24,0 2/529-27-0815- 1-200 1-600	G	- C C C C		Standard type	7505	7008
1 25 13,0 2/529-25-0815- 1-300 1-600 1 1/4 32 22,0 2/529-26-0815- 1-200 1-600 1 1/2 40 24,0 2/529-27-0815- 1-200 1-600	1/2	13	3,8	2/529-23-0815-	1-300	1-600
1 1/4 32 22,0 2/529-26-0815- 1-200 1-600 1 1/2 40 24,0 2/529-27-0815- 1-200 1-600	3/4	25	11,5	2/529-24-0815-	1-300	1-600
1 1/2 40 24,0 2/529-27-0815- 1-200 1-600	1	25	13,0	2/529-25-0815-	1-300	1-600
	1 1/4	32	22,0	2/529-26-0815-	1-200	1-600
2 50 32,0 2/529-28-0815- 1-200 1-600	1 1/2	40	24,0	2/529-27-0815-	1-200	1-600
	2	50	32,0	2/529-28-0815-	1-200	1-600









Actuator			7.0	05		
Type	2/529-23	2/529-24	2/529-25	2/529-26	2/529-27	2/529-28
G	1/2	3/4	1	1 1/4	1 1/2	2
Α	84	110	110	155	155	170
D	62	62	62	62	62	62
K	211	226	226	248	248	301
L	78	101	101	140	140	155
t	15	16	18	22	22	27
kg	5,1	7,4	7,0	17,0	16,5	on req.
Actuator			7.0	n8		
				30		
Туре	2/529-23	2/529-24	2/529-25	2/529-26	2/529-27	2/529-28
Type G	2/529-23 1/2	2/529-24 3/4			2/529-27 1 1/2	2/529-28 2
			2/529-25	2/529-26		
G	1/2	3/4	2/529-25 1	2/529-26 1 1/4	1 1/2	2
G A	1/2 108	3/4 120	2/529-25 1 120	2/529-26 1 1/4 160	1 1/2 160	2 170
G A D	1/2 108 94	3/4 120 94	2/529-25 1 120 94	2/529-26 1 1/4 160 94	1 1/2 160 94	2 170 94
G A D K	1/2 108 94 255	3/4 120 94 278	2/529-25 1 120 94 278	2/529-26 1 1/4 160 94 313	1 1/2 160 94 313	2 170 94 321



- 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.

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Stand: 09.17, MK-MG, Version 1.



Technical Data Sheet Type 1/921



3/2-way valve Universal design

Direct pressure controlled valve. The valve seat is opened against a spring force via the control medium.

■ Pressure controlled valve for high pressure applications

TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated				
Design	Piston design				
Connection	Threaded G1/4 - G1 DIN ISO 228/1 (BSP) Other connections like NPT on request				
Installation	Preferable with actuator upright				
Pressure	0 - 500 bar (see table on page 2)				
Medium	Clean, neutral, gaseous and liquid Media				
Viscosity	22 mm²/s				
Viscosity Temperature range	22 mm²/s Medium: -10 °C to +80 °C Ambient: -10 °C to +60 °C In consideration of the restrictions described on page 4				
,	Medium: -10 °C to +80 °C Ambient: -10 °C to +60 °C				
Temperature range	Medium: -10 °C to +80 °C Ambient: -10 °C to +60 °C In consideration of the restrictions described on page 4				
Temperature range Body material	Medium: -10 °C to +80 °C Ambient: -10 °C to +60 °C In consideration of the restrictions described on page 4 Stainless steel 1.4571				
Temperature range Body material Metallic inner parts	Medium: -10 °C to +80 °C Ambient: -10 °C to +60 °C In consideration of the restrictions described on page 4 Stainless steel 1.4571 Stainless steel				

Pilot valve

A7231/1002/....



3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

- For high pressure applications up to 500 bar
- No pressure difference required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC - non energized closed

NO - non-energized open

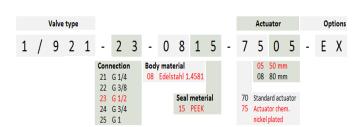




CERTIFICATES

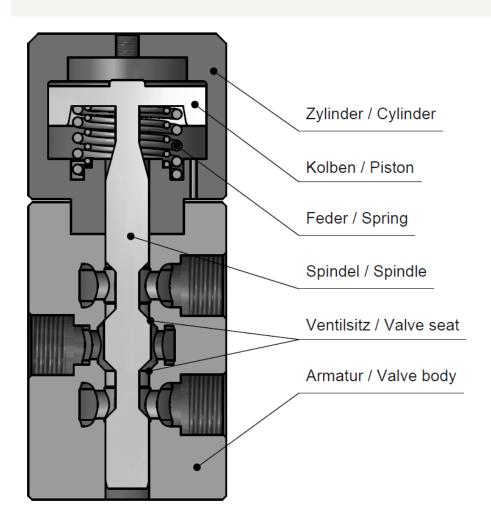




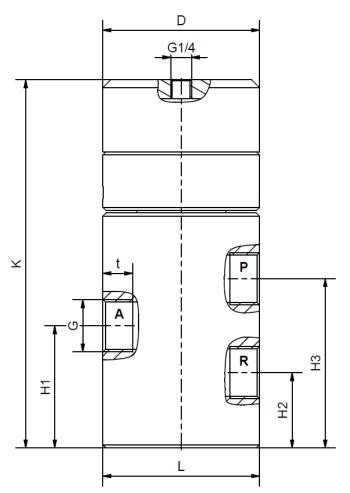


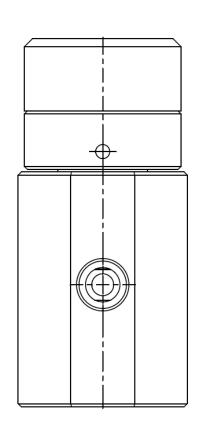


		max. pressure at 6 bar pilot pressure			
G	Seat Ø mm	Kv-value m³/h	Standard type	Actuator 7.05	Actuator 7.08
1/4	10	1,0	1/921-21-0815	0-320	0-500
3/8	10	1,0	1/921-22-0815	0-320	0-500
1/2	10	1,2	1/921-23-0815	0-320	0-500
3/4	22	7,0	1/921-24-0815	0-100	0-350
1	22	8,0	1/921-25-0815	0-100	0-350









Actuator	7.05						7.08					
Туре	1/921-21	1/921-22	1/921-23	1/921-24	1/921-25	1/921-21	1/921-22	1/921-23	1/921-24	1/921-25		
G	1/4	3/8	1/2	3/4	1	1/4	3/8	1/2	3/4	1		
D	78	78	78	78	78	100	100	100	100	100		
H1	52,5	52,5	52,5	78	78	52,5	52,5	52,5	78	78		
H2	32,5	32,5	32,5	48	48	32,5	32,5	32,5	48	48		
Н3	72,5	72,5	72,5	108	108	72,5	72,5	72,5	108	108		
K	188	188	188	230	230	197	197	197	235	235		
L	70	70	70	100	100	70	70	70	100	100		
t	12,5	12,5	14,5	17	19	12,5	12,5	14,5	17	19		
kg	6	6	6	11,8	11,8	7,9	7,9	7,9	13,2	13,2		



- 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

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Stand: 04.17, MK-MG, Version 1.