Servo-controlled solenoid valve NC, DN 13

Series 01.013.225



A.u.K. Müller

Solenoid valves Control valves Special valves and systems

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Characteristics

- servo-controlled
- normally closed (NC)
- solenoid replaceable while medium circuit remains untouched, solenoid rotatable 4x90°
- suitable for hot water up to 90 °C
- similar performance for alternating or direct current
- long term performance capability
- optimized water hammer characteristic by low noise emission according to EN 60730
- high operating safety by the use of high quality materials and 100% final testing of the products

Applications

- steam appliances
- dental appliances
- hot / cold drink dispensers
- industrial appliances
- air conditioning
- agricultural implements
- pollution equipment
- temperature equalisers
- dish washers
- ice machines
- washing machines
- water treatment

Approvals

Approved variants available on request:

MRAS





- KTW BWGL System 1+
- DVGW CERT hot water 85 °C
- WRAS
- UL 60 °C
- VDE / ENEC
- Other approvals on request

Description

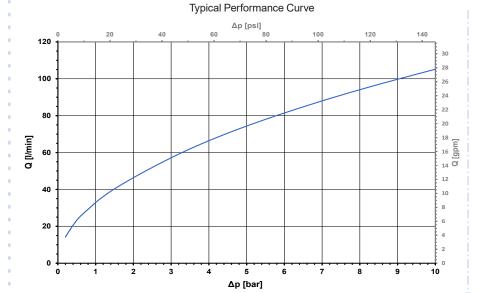
2/2-way solenoid valve of nominal diameter DN 13 for use with cold and heated potable water and physically and chemically similar media. The valve is servo-controlled and normally closed (NC).

Valves of this design are double chamber straight valves and can be manufactured with various connections.

Coil systems for common voltage and frequency ranges are available.

The electrical operational safety is guaranteed by the electrical insulation coordination, which corresponds to the VDE 110 regulations. The manufacturing process includes a 100% electrical safety test in accordance with the VDE 0631 Part 1000 regulations.

By using high quality insulation materials, continuous duty (100 % ED) at higher medium temperatures is possible. The glass fibre reinforced polyamide valve body persists hot water. Protection against corrosion of inner parts exposed to the medium is achieved by using stainless steel.



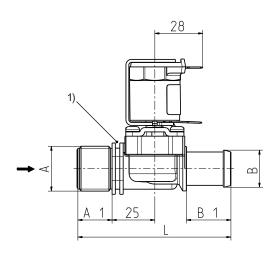
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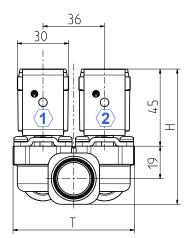
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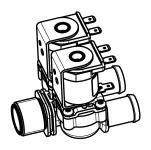
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1) Fixing groove (1), (2) valve chamber

Materials					
Valve body	PA 66 glass fibre reinforced PPE on request PEI on request				
Plunger guide	stainless steel				
Plunger and spring	stainless steel				
Membrane and sealings	EPDM NBR (on request) VMQ (on request)				
Coil coating	PBT,PET or epoxy resin				
Filter	POM (in inlet) stainless steel on request				



Tec	chnica	Da	ta		
Туре	solenoid v	alve			
Construction	2/2-way 2 chamber straight valve, servo-controlled				
Function	NC (norma	ally clos	ed)		
Fitting position	any, prefer	ably wit	th coil upwardly		
Media	cold and heated potable water and physically and chemically similar media				
T-Medium	5-90	°C			
T-Ambient	5 - 70 (5 - 60	°C °C UL and coils M 24, MS 25)			
DN	13	mm			
p-Operating	0,2 - 10	bar			
Flow factor Kv	33	I/min			
Flow regulator	on request				
Pressure surge	according to EN IEC 60730-2-8				
Coil type	MS 06, MS	3 24, M	S 25		
Nominal voltages	220 - 240 110 110 - 127 24 12 24 12	V AC V AC V AC V AC V DC V DC	50-60 Hz 50 Hz 60 Hz 50/60 Hz 50/60 Hz		
	other volta	iges on request			
Voltage tolerance	+10% -15	%			
Duty cycle	100%				
Nominal power	8,5 W	13 VA (AC only)			
Protection Type	see coils				
Coil connections	flat tabs 6,3 x 0,8 mm plug socket according to EN 175301-803 (IP65), several cable connections (IP68)				
Insulation class	F	according to EN 60730			
Protection class	see coils	according to EN 60730 (for incorporation in class I)			

Options							
Material	Inlet		Outlet		Length	Height	Depth
	ØA	A1	ØB	B1	L	Н	Т
PA 66	G 3/4	20,0	2 x 21,0 nozzle	26,0	90,0	80,0	71,0
PA 66	G 3/4	20,0	1 x 21,0 nozzle 1 1 x 14,5 nozzle 2	26,0 17,0	90,0	80,0	71,0
PA 66	.75-11,5 NH	20,0	1 x 21,0 nozzle 1 1 x 14,5 nozzle 2	26,0 17,0	90,0	80,0	71,0
PPE	.75-11,5 NH	20,0	1 x 21,0 nozzle 1 1 x 14,5 nozzle 2	26,0 17,0	90,0	80,0	71,0

Coils						
		MS 06	MS 24	MS 25		
Protection Type according to ISO 206653 / DIN EN 60529		IP 00	IP 65	IP 65 / 68		
Protection class DIN EN 61140 / DIN EN 60730	with protective conductor system		-	-		
	II with reinforced insulation					
	III for SELV or PFLV		$\langle \parallel \rangle$	$\langle \hat{\mathbb{I}} \rangle$		