Product Information

Servo-controlled solenoid valve NC, DN 13

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 01.013.115



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

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 single chamber valves with the inlet ninety degrees to the outlet.

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.

Applications

- Steam appliances
- Hot / cold drink dispensers
- Industrial appliances
- Air conditioning
- Agricultural implements
- Pollution equipment
- Temperature equalisers
- Dish washers
- Ice machines
- Washing machines
- Water treatment

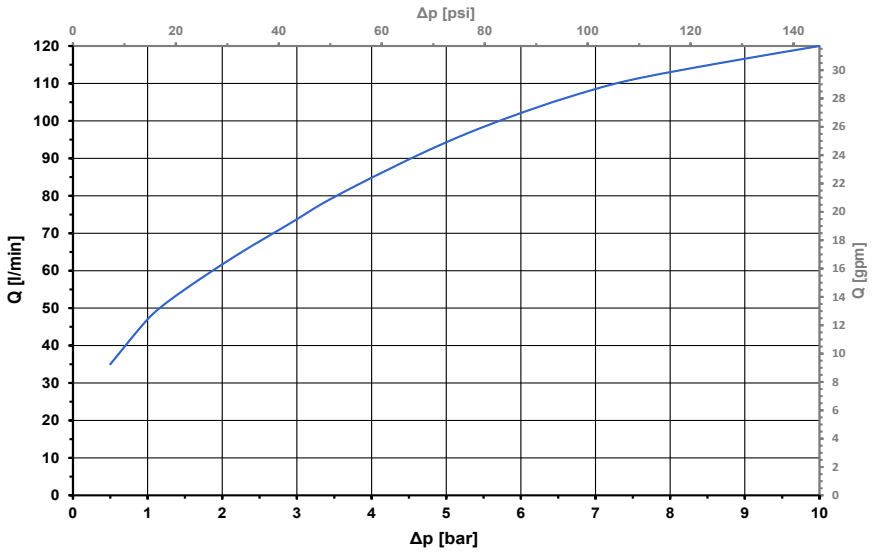
Approvals

Approved versions available on request:

KTW - BWGL WRAS c UL us

- EC 1935/2004
- KTW-BWGL (cold and hot water)
- WRAS
- UL
- Other approvals on request

Typical Performance Curve

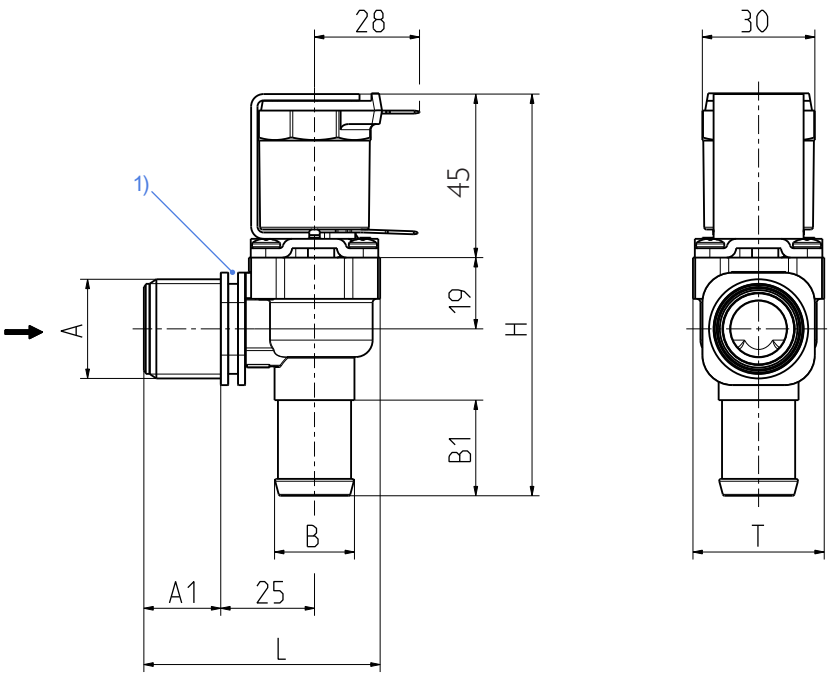


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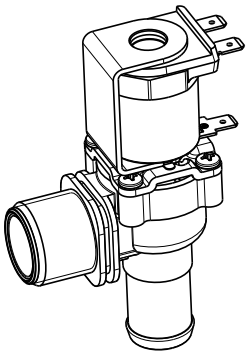
1) Fixing groove

Technical Data

Type	solenoid valve	
Construction	2/2-way single chamber valve, inlet ninety degree to outlet, servo-controlled	
Function	NC (normally closed)	
Fitting position	any, preferably with 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 MS.024, MS.025)
DN	13	mm
p-Operating	0,2 - 10	bar
Flow factor KV	47	l/min
Flow regulator	on request	
Pressure surge	according to EN 60730	
Coil type	MS 06, MS 24, MS 25	
Nominal voltages	220 - 240 110 110 - 127 24 12 24 12	V AC 50-60 Hz V AC 50 Hz V AC 60 Hz V AC 50/60 Hz V AC 50/60 Hz V DC V DC
	other voltages 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 (IP67, IP68)	
Insulation class	F	according to EN 60730
Protection class	see coils	according to EN 60730

Materials

Valve body	PA 66 glass fibre reinforced
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	stainless steel



Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	ØB	B1	L	H	T
PA 66	G 3/4	20	21,0 nozzle	25,5	63	109	35

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	**I** with protective conductor system		-	-
	II with reinforced insulation			
	III for SELV or PELV			

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