Servo-controlled solenoid valve NC, DN 10

Product Information

Series 1.010.115



A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Servo-controlled
- Sormally 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 equalizers
- dish washers
- ice machines
- washing machines
- water treatment

Possible approvals

Approved versions available on request:

- KTW/W270
- SVGW
- WRAS
- NSF 169
- VDE
- UL
- CSA
- Others on request

Description

2/2-way solenoid valve of nominal diameter DN 10 for use with cold and heated potable water and physically and chemically similar media. The valve is servo-controlled and normally closed (NC).

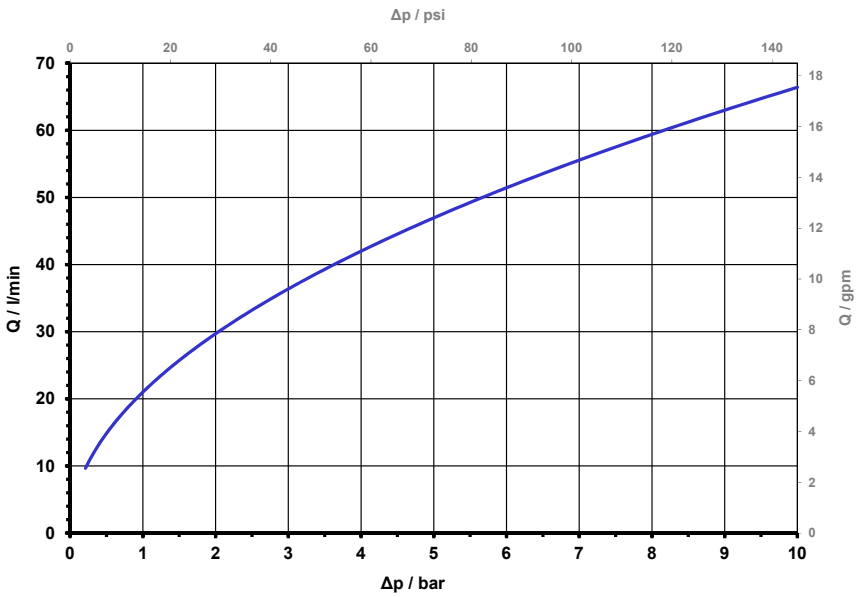
Valves of this design are single chamber valves with the inlet ninety degrees to the outlet and can be manufactured with various connections.

Coil systems for common voltage and frequency ranges are available.

Electrical operating safety is achieved by insulation class F and can be supported by an integrated protective circuit.

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.

typical performance curve

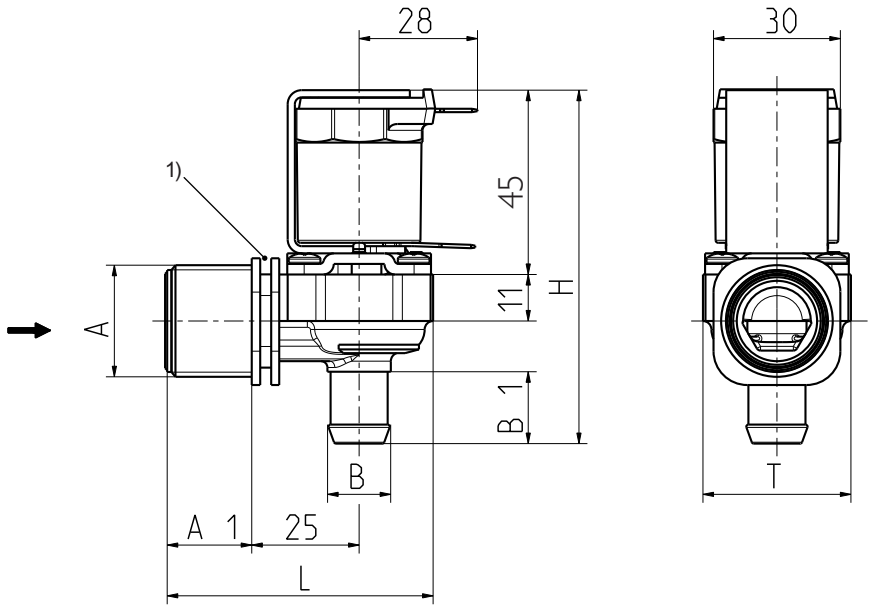


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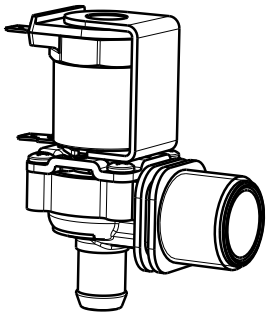
1) Fixing groove

Technical Data

Type	solenoid valve	
Construction	2/2-way single chamber, 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	90	°C max.
T-Ambient	70 (60	°C max. °C max. USA and coils MS.024, MS.025)
DN	10	mm
p-Operating	0,2 - 10	bar
Cv-value	20	l/min
Flow regulator	on request	
Pressure surge	according to EN 60730	
Coil type	MS.006, MS.024, MS.025	
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	IP 00 up to IP 68 according to EN 60529	
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	I	according to EN 60730 (for incorporation in class I)

Materials

Valve body	PA 66 glass fibre reinforced PPE on request PEI on request (T-medium max. 30 °C)
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 (Inlet)	Stainless steel POM on request (Tm : 65 °C; 90 °C / 1 h)



Options



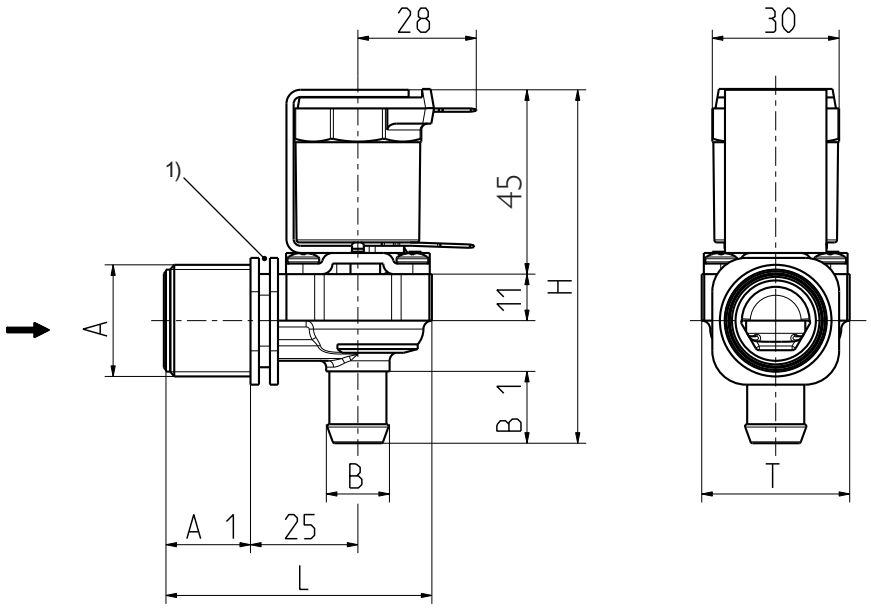


Special star-shaped inner contour in the spout for a smoother spray pattern.
* See page 3 "Options"

MS.006 (IP00)	
MS.024 (IP65)	
MS.025 (IP67, IP68)	

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1) Fixing groove

Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	Ø B	B1	L	H	T
PA 66	G 3/4	20	14,5 nozzle	17	63	85	35
PA 66	G 3/4	20	11,5 nozzle	16	63	85	35
PPE	G 3/4	20	14,5 nozzle	17	63	85	35
PA 66	G 3/4	20	14,5 nozzle with G 1/8 female Ø 12	17	63	85	35
PA 66	G 3/4	20	G 1/4 x 12	17	63	85	35
PA 66	G 3/4	20	14,5 nozzle with M10x1 female Ø 12	17	63	85	35
PA 66	G 3/4	20	14,5 nozzle with 1/8 NPT female	17	63	85	35
PA 66	G 3/4 inner Ø 20	20	14,5 nozzle	17	63	85	35
PA 66	G 3/4 inner Ø 20	20	14,5 nozzle with M10x1x12 female Ø	17	63	85	35
PEI	G 3/4	20	14,5 nozzle	17	63	85	35
PA 66	G 3/4	12	14,5 nozzle	17	55	85	35
PA 66	G 3/4	20	14,5 nozzle internally star shaped *	17	63	85	35
PPE	.75-11,5NH	20	11,5 nozzle	17	63	85	35

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