Servo-controlled Solenoid Valve NC, DN 7

Product Information

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 44.007.126



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 hydraulic 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 7, with integrated dirt strainer, 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 straight valves 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.

Applications

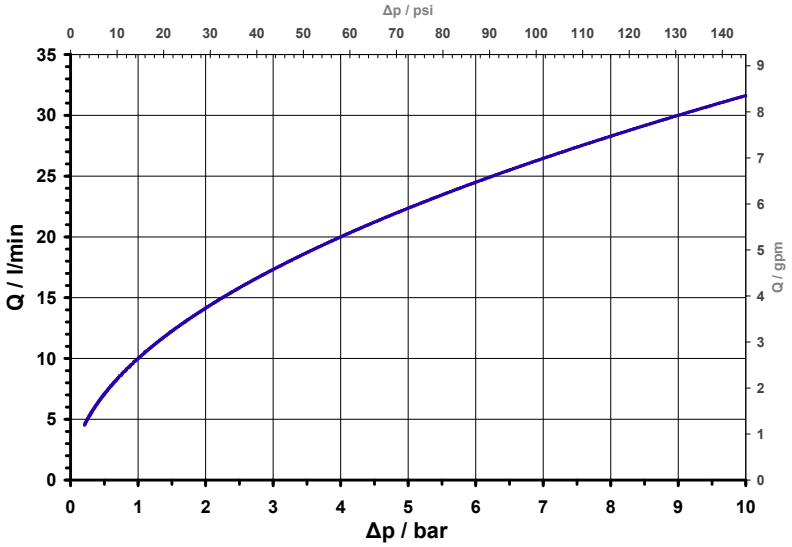
- Steam appliances
- Dental appliances
- Hot / cold drink dispensers
- Industrial appliances
- Air conditioning
- Agricultural implements
- Pollution equipment
- Temperature equalisers
- Dish washers
- Ice machines
- Washing machines
- Water treatment

Possible Approvals

Approved versions available on request:

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

Typical Performance Curve

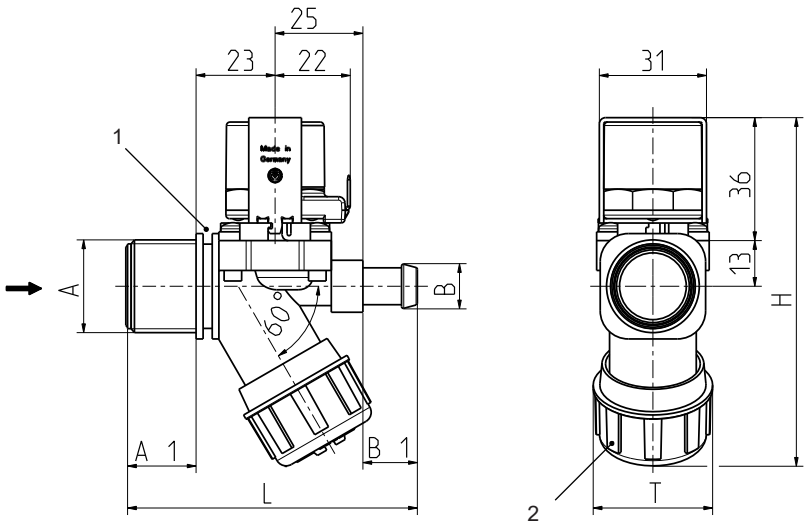


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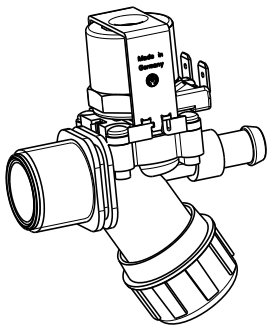


1) Fixing groove

2) Screw Cap
Screw on with a tightening torque of up to 2 Nm up to the stop.
Then turn 15° to 20° in the opposite direction to the left.

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)	POM (in inlet) stainless steel on request



Technical Data

Type	solenoid valve with integrated dirt strainer	
Construction	2/2-way single chamber straight valve, 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.028)
DN	7	mm
p-Operating	0,2 - 10 (0,2 - 6	bar bar VMQ-membrane)
Cv-value	10	l/min
Flow regulator	on request	
Pressure surge	according to EN 60730	
Coil type	MS 26, MS 28	
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	6,5 W	7,5 VA (AC only)
Protection Type	IP 00 up to IP 68	
Coil connections	flat tabs 6,3 x 0,8 mm several cable connections (IP67, IP68)	
Insulation class	F	according to EN 60730
Protection class	I	according to EN 60730 (for incorporation in class I)
Mesh size	0,16	mm ID: 005524

Options

Material	Inlet		Outlet		Length	Height	
	Ø A	A1	Ø B	B1	L	H	
PA 66	G 3/4	20,0	G 3/4	20,0	92,0	100,0	
PA 66	G 1/2	15,0	G 1/2	17,0	83,0	100,0	
PA 66	G 3/4	20,0	12,0 nozzle	15,5	83,0	100,0	
PA 66	G 3/4	20,0	14,5 nozzle	17,0	84,5	100,0	on request
PA 66	G 3/8	13,0	G 3/8	12,2	73,5	100,0	on request

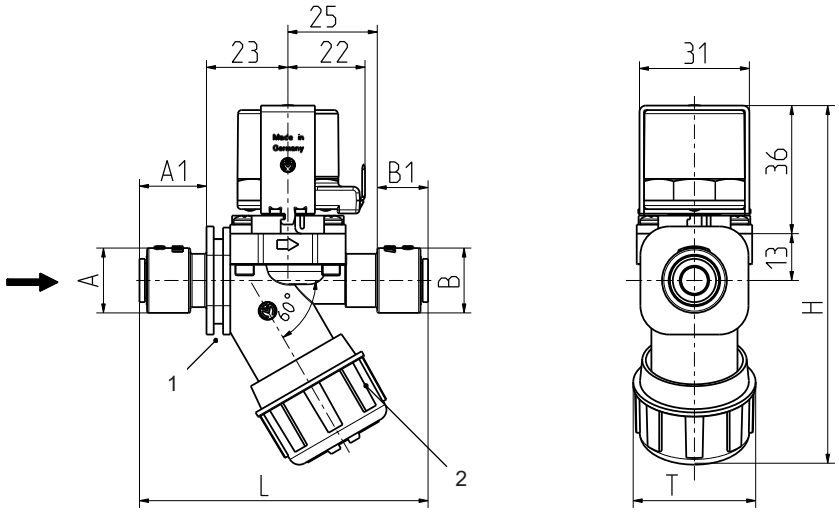
MS.026 (IP00)	
MS.028 (IP68)	

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2) Screw Cap
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Then turn 15° to 20° in the opposite direction to the left.

Options

Material	Inlet		Outlet		Length	Height
	Ø A	A1	Ø B	B1	L	H
PA 66	JG 8	16,5	JG 8	12,0	80,0	100,0
PA 66	JG 10	21,0	JG 10	15,0	88,0	100,0
PA 66	JG 12	26,0	JG 12	25,0	103,0	100,0
PA 66	JG 5/16 "	16,5	JG 5/16 "	12,0	80,0	100,0
PA 66	JG 3/8 "	21,0	JG 3/8 "	15,0	88,0	100,0
PA 66	JG 1/2 "	26,0	JG 1/2 "	25,0	103,0	100,0

JG = John Guest connections - on request

Other connection combinations on request

⚠ Warning Notice ⚠

Before working on the valve, carefully observe the following warning notice.

! ATTENTION !
Danger of scalding from escaping hot water!
Observe the following points for safe handling of the valve:

- Make sure that your pipe system is pressureless.
- Please note that there may still be hot residual water in the valve and in the connected pipe system.
- Only open the valve when there is sufficient cooling time if you operate your system in hot water.
- After closing the valve, carefully check for escaping water.

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