Product Information

Servo-controlled solenoid valve NC, DN 10

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 1.010.126



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 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

Possible approvals

Approved versions available on request:

- KTW/W270
- NSF 169
- UL
- SVGW
- ACS
- WRAS
- 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).

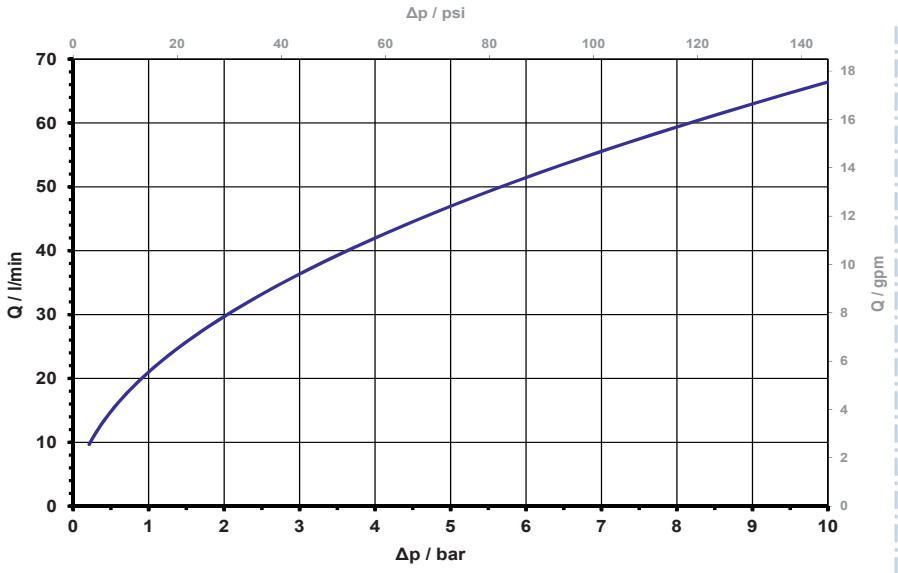
Valves of this design are single chamber straight valves and can be manufactured with various connections variants as male or female threads and swivel nuts.

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

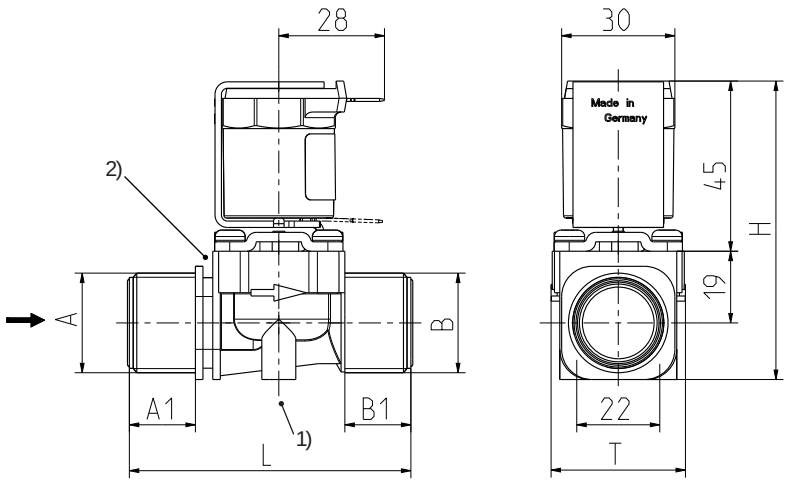


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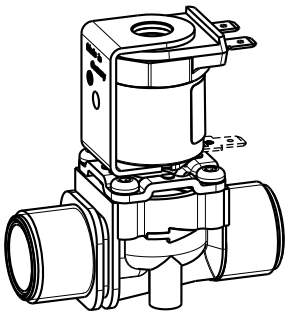
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1) Fixing possibility for self tapping screw Ø 4,2
2) Fixing groove



Technical Data

Type	solenoid valve		
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.024, MS.025)	
DN	10	mm	
p-Operating	0,2 - 10	bar	
Cv-value	21	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 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 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

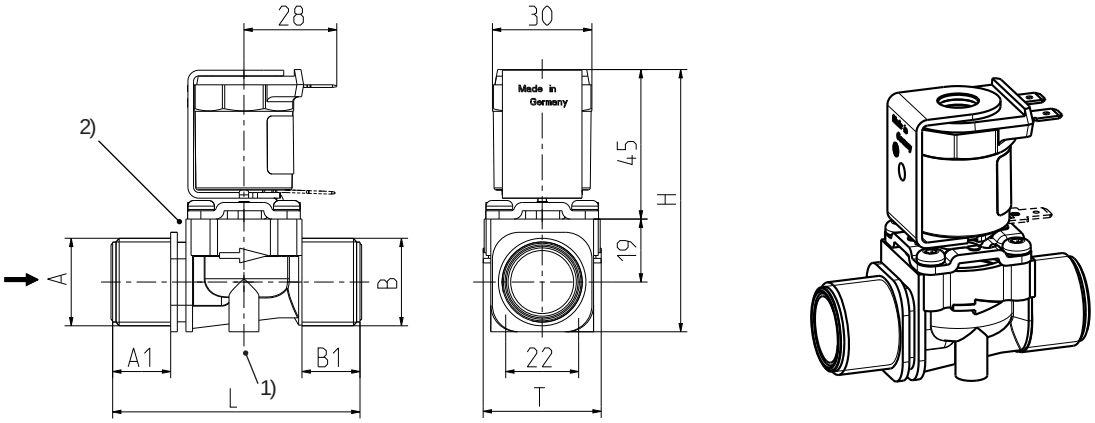
Valve body	PA 66 glass fibre reinforced PA 66 glass fibre reinforced PPE on request PEI on request (T-medium max. 30 °C)
Plunger guide	stainless steel
Plunger and spring	stainless steel
Membrane and sealings	EPDM NBR (on request) VMQ (on request)
Coil coating	PBT, PET or epoxy resin
Filter (Inlet)	stainless steel POM on request (Tm : 65 °C; 90 °C / 1 h)

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

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Valve housing variants with male thread



1) Fixing possibility for self tapping screw Ø 4,2
2) Fixing groove

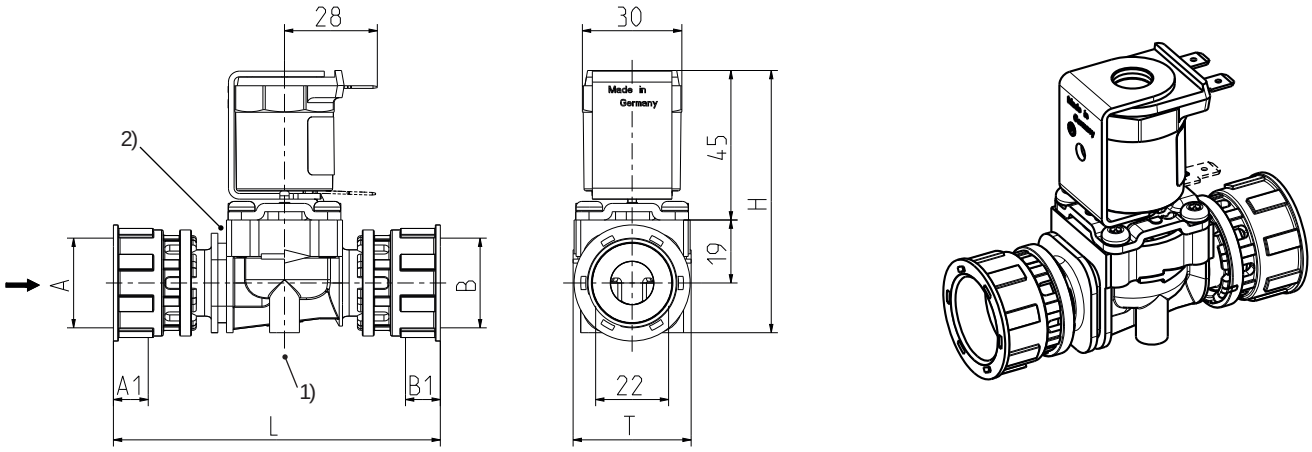
Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	Ø B	B1	L	H	T
PA 66 or PA6/6	G 3/4	18	G 3/4	18	76	79	36
PA 66 or PA6/6	G 1/2	15	G 1/2	15	70	79	36
PA 66 or PA6/6	G 3/8	13	G 3/8	13	66	79	36
PA 66 or PA6/6	G 3/4	18	G 1/2	15	73	79	36
PA 66 or PA6/6	G 3/4	18	G 3/8	13	71	79	36
PA 66	G 1/2	15	G 3/4	18	73	79	36
PA 66	G 1/2	15	G 3/8	13	68	79	36
PA 66	G 3/8	13	G 3/4	18	71	79	36
PA 66	G 3/8	13	G 1/2	15	68	79	36
PA 66 or PA6/6	G 3/4 (no fixing clip possible)	10	G 3/4	10	55	79	36
PPE	G 3/8	13	G 3/8	13	66	79	36
PA 66	G 3/4	18	G 3/4	10	68	79	36
PA 66 or PA6/6	G 3/8	13	12,0 nozzle	17	70	79	36
PPE	12,0 nozzle	17	12,0 nozzle	17	74	79	36
PA 66 or PA6/6	G 3/4	14,5	G 3/4	14,5	69	79	36
PA 66	G 3/4	18	G 3/4 swivel nut	10,5	87	79	36
PA 66	G 3/4 swivel nut	10,5	G 3/4	18	87	79	36
PA 66	G 3/8	13	G 3/4 swivel nut	10,5	82	79	36
PA 66	G 3/4	18	12,0 nozzle	17	75	79	36
PA 66	G 3/4	18	15,0 nozzle*	30	90	79	36
PA 66	15,0 nozzle*	30	G 3/4	18	88	79	36
PPE	G 1/2	15	G 1/2	15	70	79	36
PPE	G 3/4	18	G 3/4	18	76	79	36
PA 66	3/8" JG**	10	3/8" JG**	10	60	79	36
* Compatible to modular fitting system, series 11.000 or for John Guest							
**John Guest cartridge in valve body							
Other variants on request.							

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Valve housing variants with swivel nut

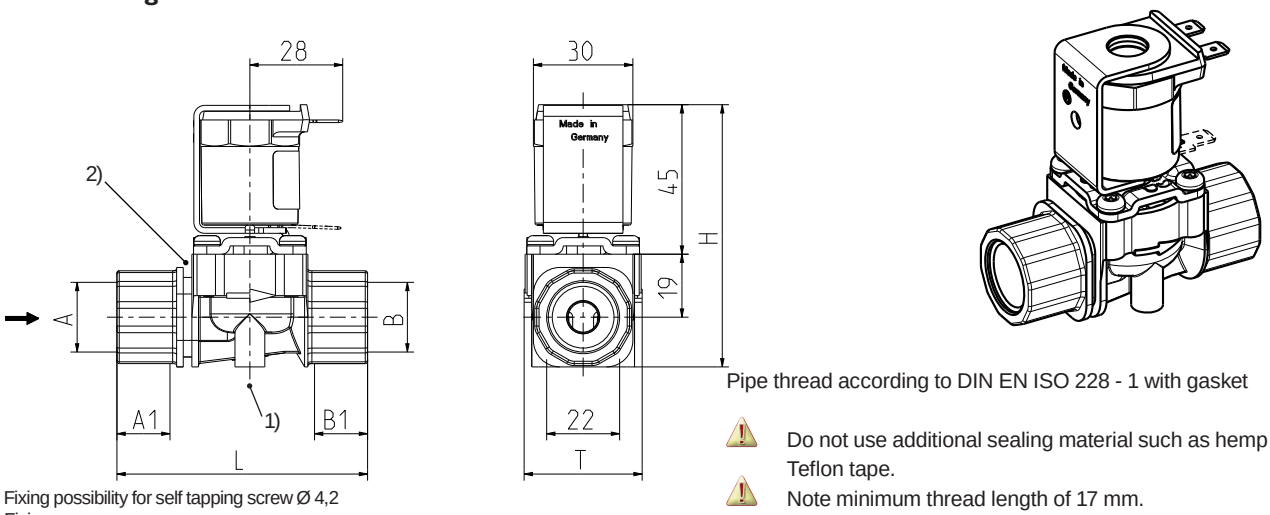


1) Fixing possibility for self tapping screw Ø 4,2
2) Fixing groove

Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	Ø B	B1	L	H	T
PA 6/6	G 3/4 swivel nut	10,5	G 3/4 swivel nut	10,5	99	79	36
PA 6/6	G 1/2 swivel nut	11,5	G 1/2 swivel nut	11,5	99	79	36
Other variants on request.							

Valve housing variants with female thread



Pipe thread according to DIN EN ISO 228 - 1 with gasket

Do not use additional sealing material such as hemp or Teflon tape.

Note minimum thread length of 17 mm.

1) Fixing possibility for self tapping screw Ø 4,2
2) Fixing groove

Options

Material	Inlet		Outlet		Length	Height	Depth
	Ø A	A1	Ø B	B1	L	H	T
PA 6/6	G 1/2 female	16	G 1/2 female	16	76	79	36
Other variants on request.							

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