# Servo-controlled solenoid valve NC, DN 10

Product Information

## Series 01.010.511




**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 circuitry 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

## 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).

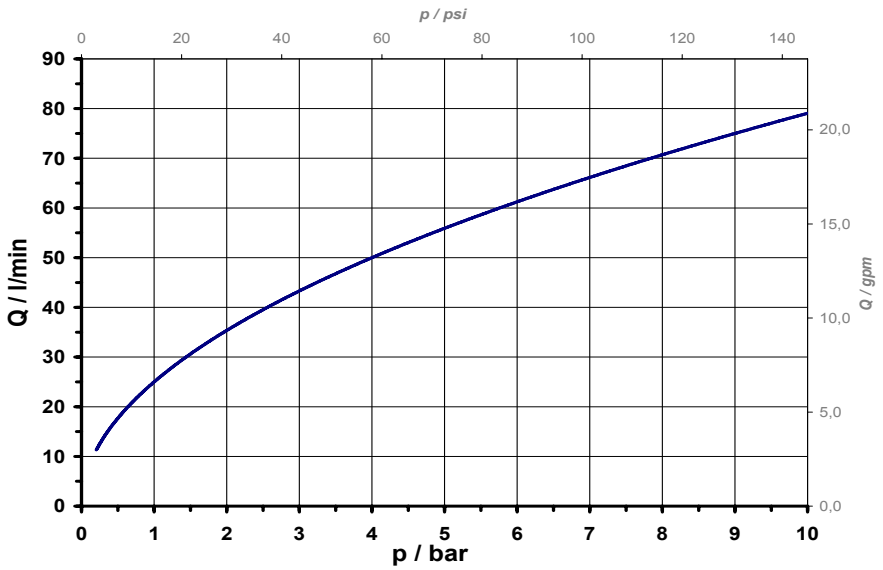
Valves of this design are single chamber valves with the inlet ninety degrees to the outlet and with male thread both at the inlet and the outlet in different dimensions.

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. Protection against corrosion of inner parts exposed to the medium is achieved by using stainless steel.

typical performance curve

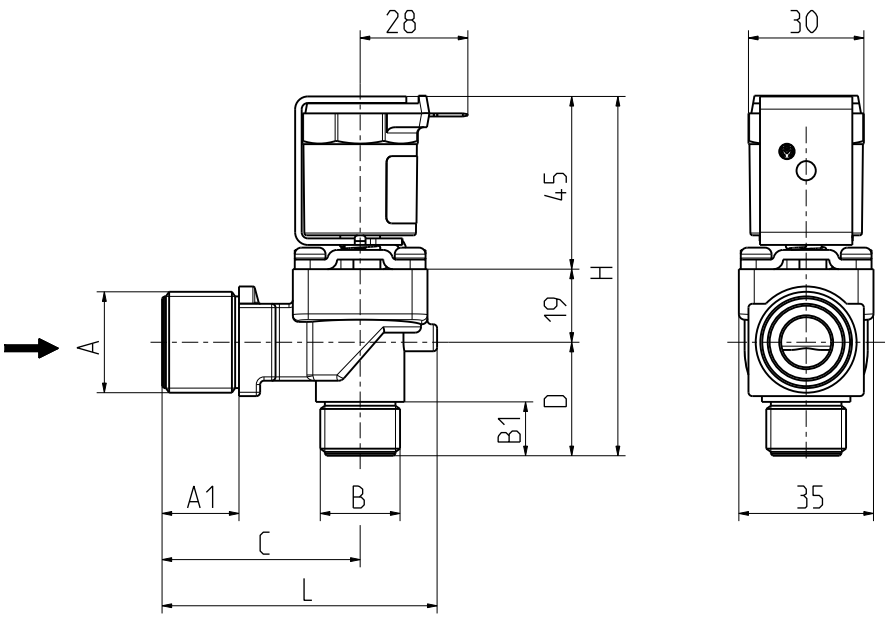



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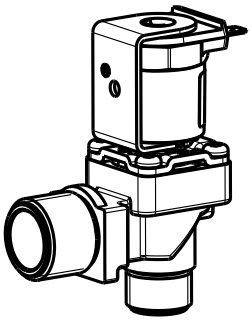



## Technical Data

| | | |
|---|---|---|
| **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** | 90 | °C max. |
| **T-Ambient** | 70<br>(60 | °C max.<br>°C max. USA and coils MS.024, MS.025) |
| **DN** | 10 | mm |
| **p-Operating** | 0,2 - 10 | bar |
| **Cv-value** | 25 | l/min |
| **Flow regulator** | on request | |
| **Pressure surge** | according to EN 60730 | |
| **Coil type** | MS.006, MS.024, MS.025 | |
| **Nominal voltages** | 220 - 240<br>110<br>110 - 127<br>24<br>12<br>24<br>12 | V AC 50-60 Hz<br>V AC 50 Hz<br>V AC 60 Hz<br>V AC 50/60 Hz<br>V AC 50/60 Hz<br>V DC<br>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 | |
| **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** | brass CW617N |
| **Plunger guide** | stainless steel |
| **Plunger and spring** | stainless steel |
| **Membrane and sealings** | EPDM<br>NBR (on request) |
| **Coil coating** | PBT,PET or epoxy resin |
| **Filter** | stainless steel (in inlet) |



## Options

| Material | Inlet | | Outlet | | | | Length | Height |
|---|---|---|---|---|---|---|---|---|
| | Ø A | A1 | Ø B | B1 | C | D | L | H |
| brass | G 3/4 | 20 | G 1/2 | 14 | 50 | 29,5 | 70 | 94,5 |
| brass | G 1/2 | 12 | G 1/2 | 12 | 29,5 | 23 | 49,5 | 88 |
| brass | G 1/2 | 8,5 | G 1/2 clamping nut | 13,5 | 26 | 17,5 | 46 | 82,5 |

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



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