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 01.010.521



## 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

## 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 with female thread at in- and outlet in different dimensions.

Coil systems for common voltage and frequency ranges are available.

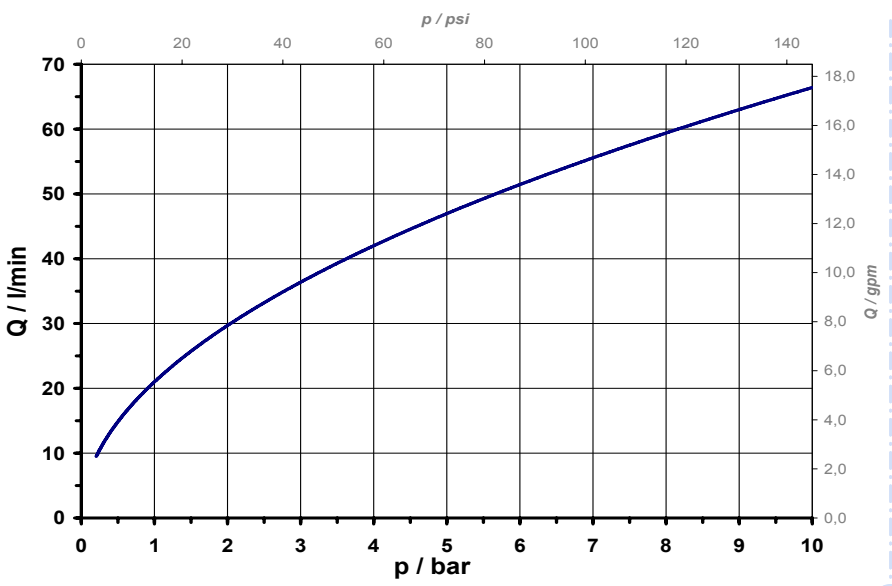
Electrical operating safety is achieved by insulation class F and can be supported by an integrated protective circuit.

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.

## 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

typical performance curve

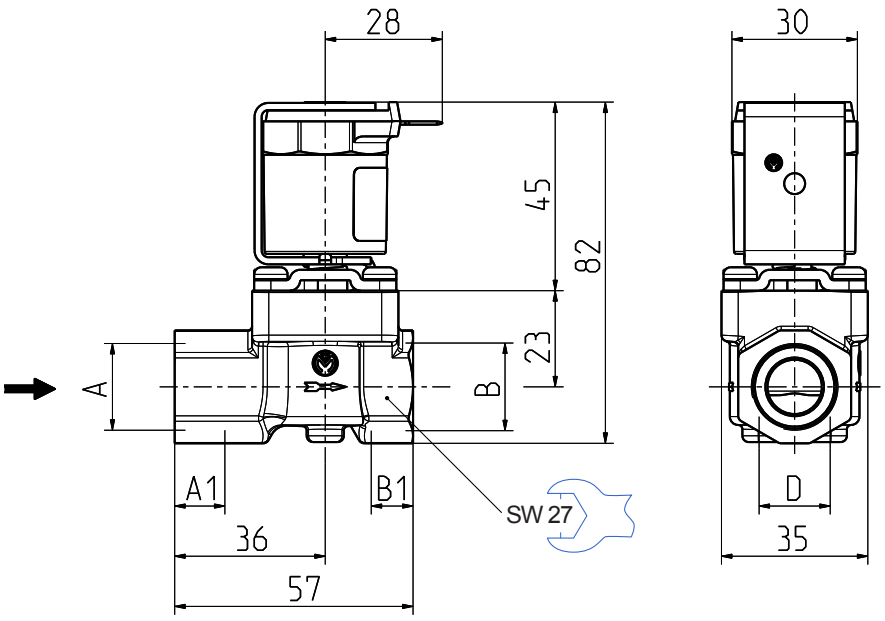



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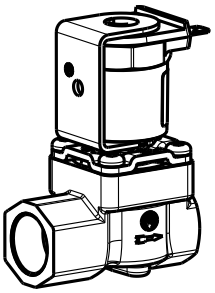



## Technical Data

| | | |
|---|---|---|
| **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<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** | 21 | l/min |
| **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<br>plug socket<br>according to<br>EN 175301-803 (IP65),<br>several cable connections<br>(IP67, IP68) | |
| **Insulation class** | F | according to EN 60730 |
| **Protection class** | I | according to EN 60730<br>(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 |



## Options

| Material | Inlet | | Outlet | | Length | Height | Depth |
|---|---|---|---|---|---|---|---|
| | Ø A | A1 | Ø B | B1 | | | |
| brass | G 1/2 female | 12,0 | G 1/2 female | 10,0 | 57,0 | 82,0 | 35,0 |
| brass | G 3/8 female | 12,0 | G 3/8 female | 10,0 | 57,0 | 82,0 | 35,0 |

(on request D = 18 mm - 2 x threaded hole M4x6 as fixing alternative)

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



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