# 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

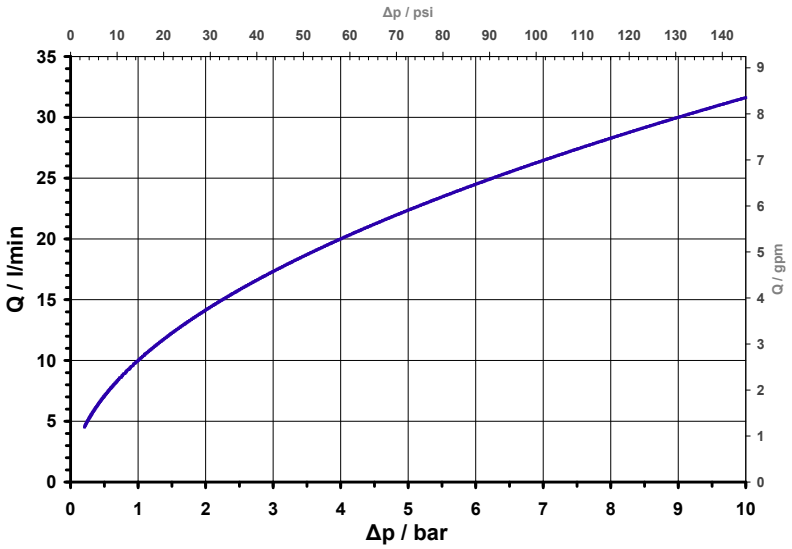
- Steam appliances
- Dental appliances
- Hot / cold drink dispensers
- Industrial appliances
- Air conditioning
- Agricultural implements
- Pollution equipment
- Temperature equalisers
- Dish washers
- Ice machines
- Washing machines
- Water treatment

## 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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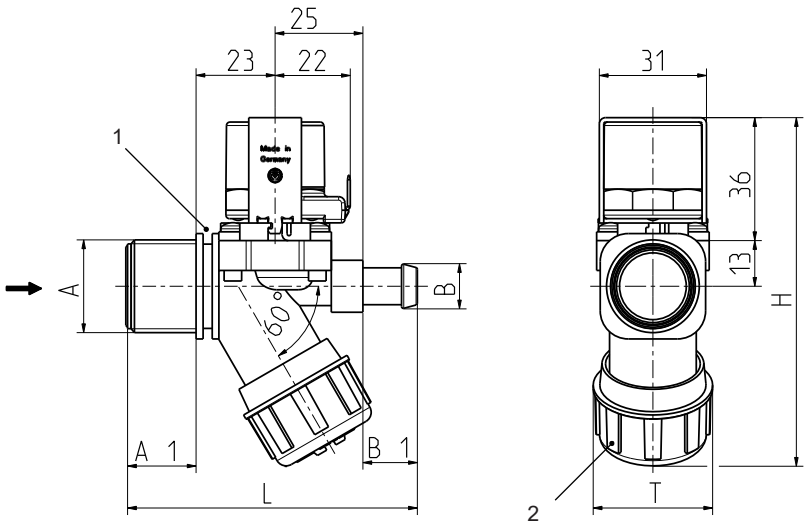
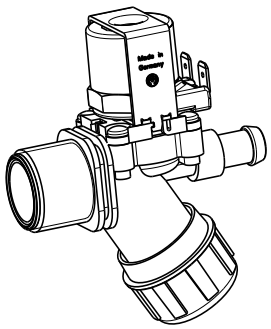



1) Fixing groove

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<br>PPE on request<br>PEI on request (T-medium max. 30 °C) |
| **Plunger guide** | stainless steel |
| **Plunger and spring** | stainless steel |
| **Membrane and sealings** | EPDM<br>NBR (on request)<br>VMQ (on request) |
| **Coil coating** | PBT,PET or epoxy resin |
| **Filter** (inlet) | POM (in inlet)<br>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<br>(60 | °C max.<br>°C max. USA and coils MS.028) | |
| **DN** | 7 | mm | |
| **p-Operating** | 0,2 - 10<br>(0,2 - 6 | bar<br>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<br>110<br>110 - 127<br>24<br>12<br>24<br>12 | V AC<br>V AC<br>V AC<br>V AC<br>V AC<br>V DC<br>V DC | 50-60 Hz<br>50 Hz<br>60 Hz<br>50/60 Hz<br>50/60 Hz |
| | 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<br>several cable connections (IP67, IP68) | | |
| **Insulation class** | F | according to EN 60730 | |
| **Protection class** | I | according to EN 60730<br>(for incorporation in class I) | |
| **Mesh size** | 0,16 | mm<br>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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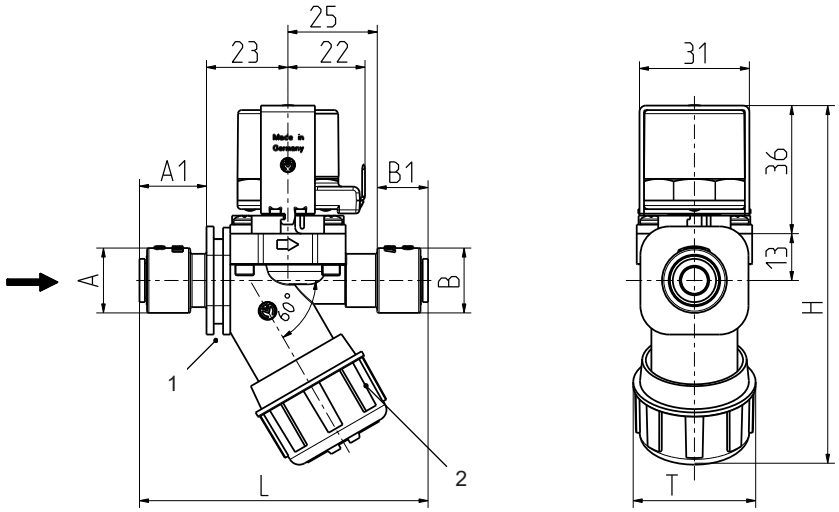


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## Options

| 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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