



**Series 61.010.126**



Optimally usable in conjunction with MT 40 flowmeter turbine

**Description**

Control system consisting of a proportional valve with a nominal diameter of DN 10 and a cable plug with corresponding electronics. The controlled system can be used optimally with the upstream measuring turbine MT 40. The controlled system is used for the continuous control of volume flows and is suitable for drinking water and physically and chemically similar media. The valve is normally closed (NC).

The data determined in the measuring turbine, is forwarded to the control electronics. The coil current is modulated via pulse width modulation (PWM) of the electronics. The modulation of the current and thus of the magnetic field causes a continuous raising or lowering of the valve core. This electronic system therefore provides an adjustable volume flow.

The electrical operational safety is guaranteed by the electrical insulation coordination, which corresponds to the VDE 110 regulations. The manufacturing process includes a 100% electrical safety test in accordance with the VDE 0631 Part 1000 regulations.

Due to the use of high-quality insulating materials, continuous operation (100% ED) is possible even at high ambient and media temperatures. The solenoid valve with glass-fibre reinforced polyamide housing is suitable for hot water.

The valve can only be operated with the appliance inlets supplied by A.u.K. Müller.

**Applications**

- String regulators
- Industrial appliances
- Cooling systems

**Possible approvals**

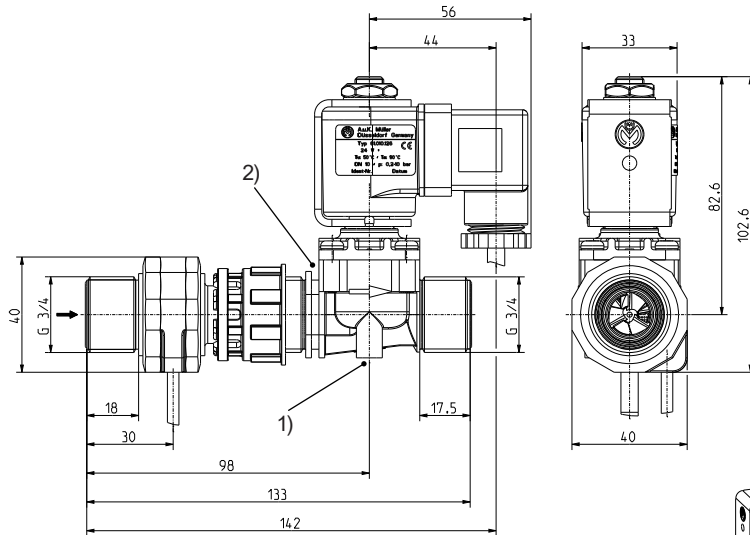
Approved versions available on request:

- DVGW confirmation of conformity hygiene (system 1+ with external monitoring)
- KTW - BWGL
- ACS
- NSF 61
- WRAS
- Others on request

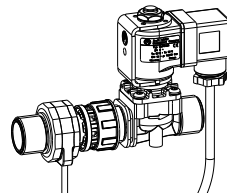
**Characteristics**

- Continuous volume flow within the control range
- Electronics expandable e.g. flow control to a temperature setpoint
- Normally closed (NC)
- Suitable for hot water up to 90 °C
- Optimized water hammer characteristic by low noise emission according to EN 60730
- Long term performance capability
- High operating safety through the use of high quality materials and 100% final testing of the products

Series 61.010.126



- 1) Fixing possibility for self tapping screw  $\varnothing$  4,2
- 2) Fixing groove



Technical Data

Type	servo solenoid valve with electronics and measuring turbine	
Construction	2/2-way single chamber straight valve	
Function	NC (normally closed)	
Fitting position	any, preferably with coil upwards	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 90	°C
T-Ambient	5 - 60	°C
DN valve	10	mm
p-Operating	0,5 - 10	bar
Flow factor Kv	21	l/min
Adjustment range	6 - 40 l/min	
Pressure surge	according to EN 60730	
Coil type	MS 42	
Nominal voltages	24	V DC
	other voltages on request	
Voltage tolerance	±10%	
Duty cycle	100%	
Nominal power	11 W	
Insulation class	H	according to EN 60730
Protection class of the coil	see Coils	according to EN 60730
Control options	Analogue	0 - 10 V 0 - 20 mA 4 - 20 mA
	Digital	UART

Materials

Valve body	PA 66 glass fibre reinforced PA 6/6 on request PPO on request
Turbine body	PPSU
Sensor body	PA 66
Plunger guide	stainless steel
Plunger and spring	stainless steel
Turbine shaft	stainless steel
Turbine bearing	Ruby plastic plain bearing
Membrane and sealings	EPDM VMQ (on request) NBR (on request)
Coil coating	Epoxy resin
Filter (inlet)	stainless steel (in inlet) POM (on request)

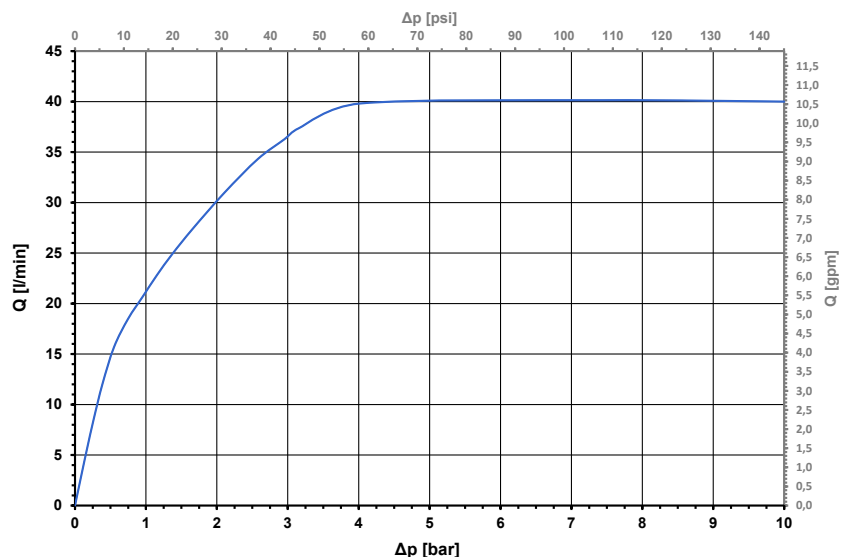
Coils

MS 42  
(IP65)

Protection class II

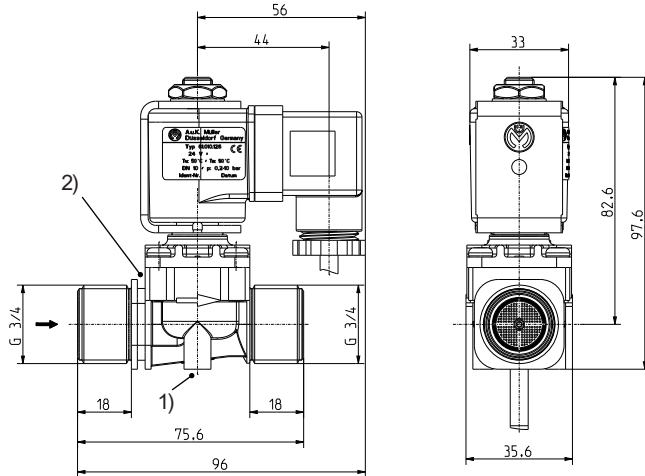


Typical Performance Curve





**Series 61.010.126**



- 1) Fixing possibility for self tapping screw  $\varnothing 4,2$
- 2) Fixing groove

**Technical Data**

<b>Type</b>	servo solenoid valve with electronics	
<b>Construction</b>	2/2-way single chamber straight valve	
<b>Function</b>	NC (normally closed)	
<b>Fitting position</b>	any, preferably with coil upwardly	
<b>Media</b>	cold and heated potable water and physically and chemically similar media	
<b>T-Medium</b>	90	°C max.
<b>T-Ambient</b>	70	°C max.
<b>DN</b>	10	mm
<b>p-Operating</b>	0,5 - 10 bar	
<b>Flow factor Kv</b>	24	l/min
<b>Pressure surge</b>	according to EN 60730	
<b>Coil type</b>	MS 42	
<b>Nominal voltages</b>	24	V DC
	other voltages on request	
<b>Voltage tolerance</b>	$\pm 10\%$	
<b>Duty cycle</b>	100%	
<b>Nominal power</b>	11 W	
<b>Insulation class</b>	H	according to EN 60730
<b>Protection class</b>	see coils	according to EN 60730
<b>Control options</b>	Analogue	0 - 10 V 0 - 20 mA 4 - 20 mA
	Digital	UART

**Materials**

<b>Valve body</b>	PA 66 glass fibre reinforced PA 6/6 on request PEI on request (T-medium max. 30 °C)
<b>Plunger guide</b>	stainless steel
<b>Plunger and spring</b>	stainless steel
<b>Membrane and sealings</b>	EPDM NBR (on request) VMQ (on request)
<b>Coil coating</b>	epoxy resin
<b>Filter (Inlet)</b>	stainless steel POM on request

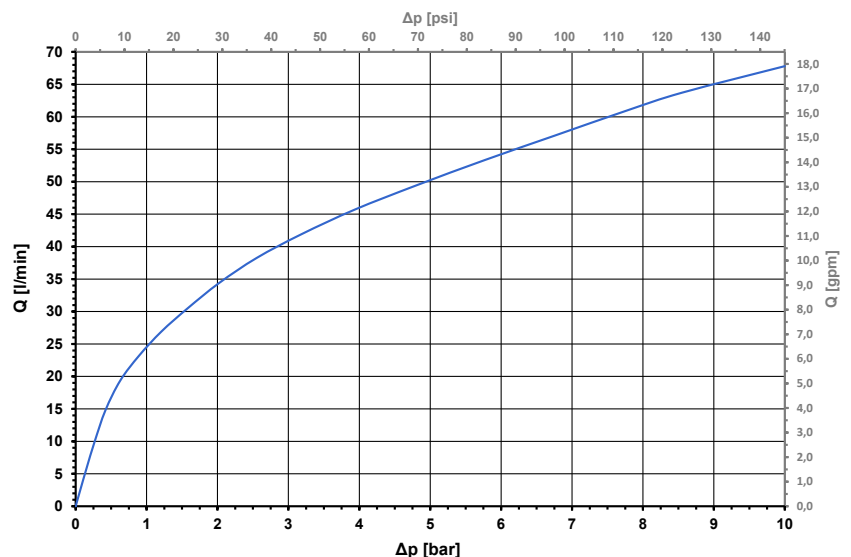
**Coils**


**MS 42**  
(IP65)

Protection class II



Typical Performance Curve





Solenoid valves  
Control valves  
Special valves and systems

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