Axial valve DN 5

Product Information

Series 51.005.125



A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Characteristics

- Servo-controlled
- Pretested functional unit
- Long term performance capability
- Internal triple pollution protection
- Compact design
- Optimized water hammer characteristic by low noise emission according to EN 60730
- Easy to assemble and service
- Low power consumption
- Any fitting position
- High operating safety through the use of high quality and 100% final testing of the products

Applications

- Sanitary tap-ware

Approvals

Approved versions available on request:

- KTW-BWGL System 1+
- ACS
- WRAS
- NSF 61

Description

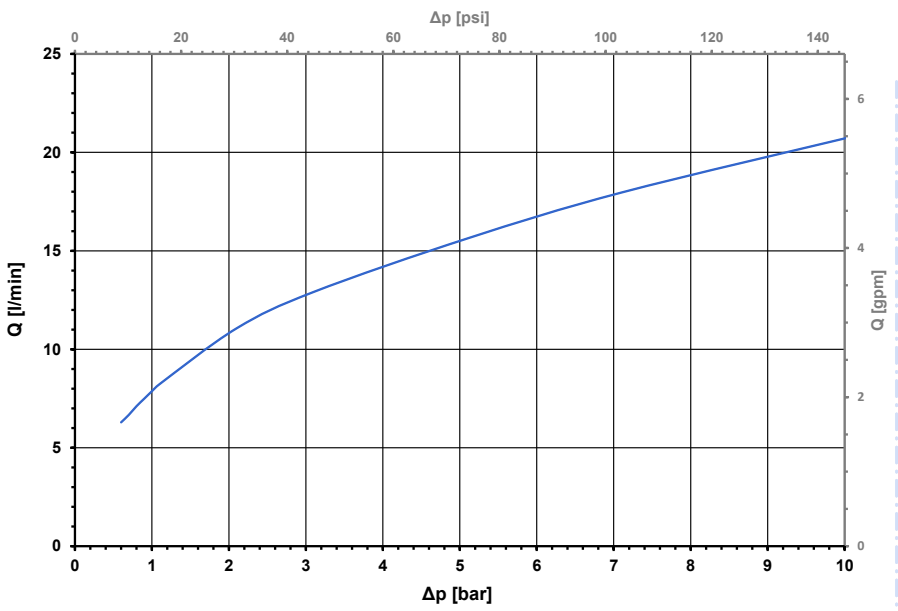
2/2-way solenoid servo controlled valve of DN 5, to be used particularly in electronically controlled sanitary fittings as bi stable (latching) and monostable version.

The power consumption is minimised by the use of impulse control to increase long term performance, durability and battery life.

The design outline had been reduced so far that integration in appropriate components, while using a minimum amount of space, is given. There is no need to design a valve seat by the user.

For easy integration various connection options are available. As inlet either a plug-in or flange connector with an integrated filter for pre-filtering are obtainable. Alternatively 6 or 8 mm push-fit connectors are offered, for which the pre-filtering has to be carried out on site. For the outlet either a plug-in connector or push-fit connectors with 6 or 8 mm are available.

Typical Performance Curve
Inlet/outlet: plug-in connector (ID 64561)

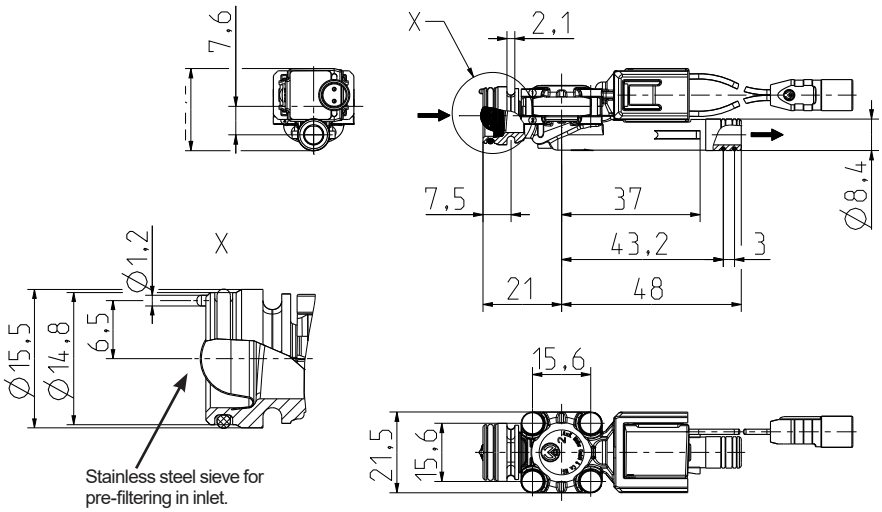


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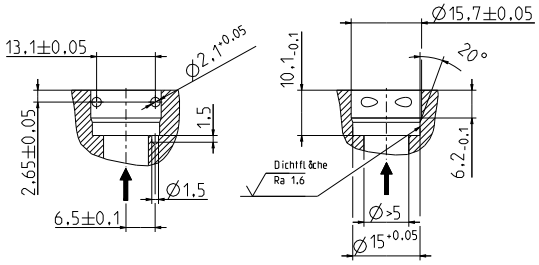
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Inlet/outlet: plug-in connector

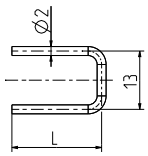
Note: To avoid damage to the valve, make sure that the lines are exactly aligned with the input and output connections of the valve.



Screw in contour



Retaining clip for fixing



Due to the different installation conditions and resulting variations in length, the retaining clip is to be implemented by the customer.

Materials

Valve body, seal retainer	PA 6/6 glass fibre reinforced
Plunger guide	LCP
Plunger and spring	Stainless steel
Membrane and sealings	EPDM
Membrane insert	PSU
Filter	Stainless steel
Coil coating	Hotmelt



Coil connection - Options

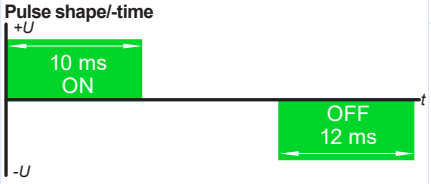
ID	Inlet*	Outlet*	Cv-value	Function	Nominal voltage	
64561	Plug-in connector Ø 14,8	Plug-in connector Ø 8,4 with 2 o-rings	7,6 l/min	bistable (latching)	6 V DC	on request
64551	Flange connector	Push-fit connector 6 mm	5,2 l/min			
64552		Push-fit connector 8 mm	7,5 l/min			
64554	Push-fit connector 6 mm	Push-fit connector 6 mm	4,6 l/min			
64555	Push-fit connector 8 mm	Push-fit connector 8 mm	7,3 l/min			

* Monostable versions and other connectors or combinations for inlet and outlet on request.

Technical Data

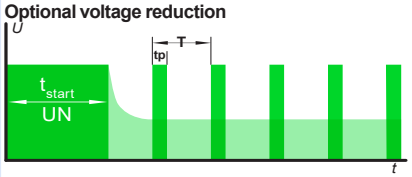
Type	cartridge valve	
Construction	2/2-way screw-in, servo controlled	
Connection	Plug-in connection, flange or push-fit	
Fitting position	any, preferably with coil upward	
Media	cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 70 (5 - 80	°C °C max 10 min)
T-Ambient	5 - 60	°C
DN	5	mm
p-Operating	0,5 - 10,0	bar
Cv-value	see options	
pressure surge	according to EN 60730 / EN15091	
Function	**bistable (latching) pulse controlled**	
Nominal voltage	6	V DC
	other voltages on request	
Operating voltage	4,0 - 6,9 V DC open/close at T-Ambient 25 °C	

Pulse shape/-time



Nominal power	1,4	W
Function	**monostable (NC)**	
Nominal voltage	12 24	V DC V DC
	other voltages on request	
Voltage tolerance	-15 % / +10 %	

Optional voltage reduction



t_{start} : 100 ms dutycycle ≥ 33% [>100Hz] PWM
t_{start} : 100 ms dutycycle ≥ 25% [>1kHz] PWM

Nominal power 12 V DC 24 V DC	 1,7 W 1,8 W	
Protection class	III for PELV power supply	
Protection type	IP 65	according to EN 60529
	higher on request	
Insulation class	B	according to EN 60730

Good resistance to thermal (e.g., T-medium 80 ° C/10 minutes) and chemical disinfection.

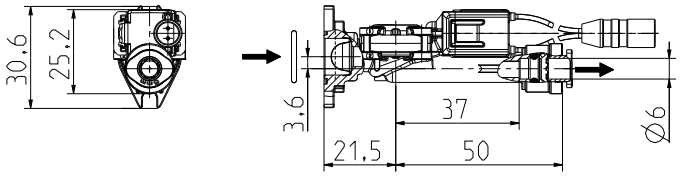
Hygiene advantage by air testing prior to delivery.

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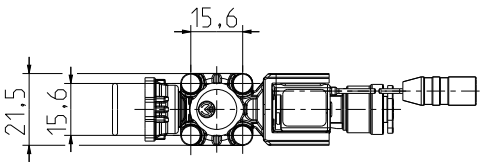
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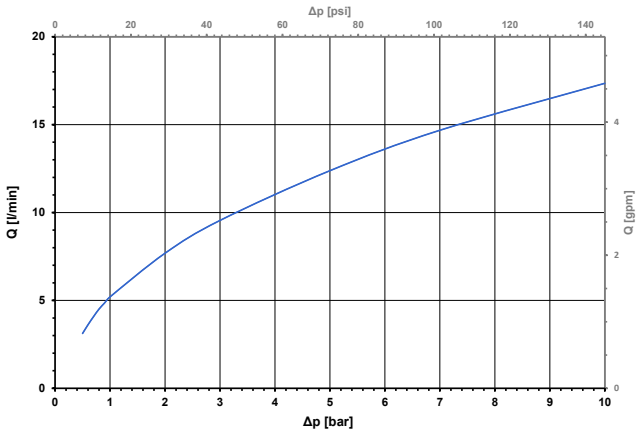
Optional connection variants

Inlet: flange with stainless steel sieve for pre-filtering
Outlet: 6 mm push-fit connector

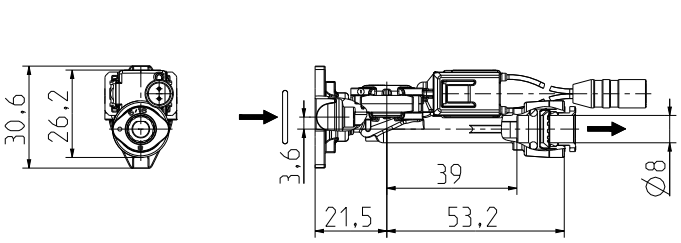




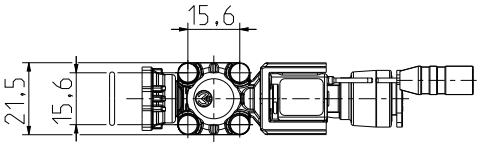


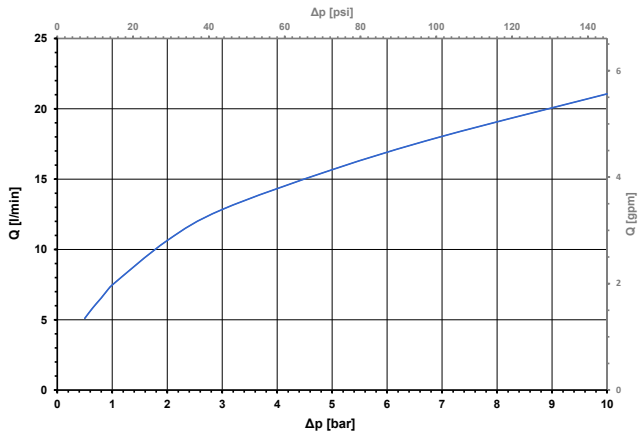


Inlet: flange with stainless steel sieve for pre-filtering
Outlet: 8 mm push-fit connector









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