Product Information

Mono-Stable Cartridge Valve, DN 7

A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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Series 50.007.101 mono M28



Characteristics

- Servo-controlled
- Pretested functional unit
- Suitable for the thermal as well as chemical disinfection
- Long term performance capability
- Internal triple pollution protection
- Compact design
- Optimized Cv-value for DN 7
- Optimized water hammer characteristic by low noise emission according to EN 60730-2-8 and EN 15091
- Easy to assemble and service
- Standard connection
- Cylindrical design
- Low power consumption
- Any fitting position
- Suitable for spray and jet water
- High operational safety through the use of high quality material
- Hygiene benefit by 100% final testing with air

Description

2/2-way solenoid cartridge servo controlled valve of DN 7 in monostable version, to be used particularly in electronically controlled sanitary fittings.

The design outline had been reduced so far, that integration in appropriate components while using a minimum amount of space is given.

Positive properties are extended due to the simple “screw in” version, which supports easy assembly, service and tests by the customer.

The design of a separate valve seat by the customer is not required, as otherwise needed when solely using a pilot valve.

The flow rate of the cartridge valve has been optimised in such a way, that the nominal diameter of DN 7 fulfils the standard requirements for sanitary tap ware. In addition, we offer a version that has been optimized against water hammer according to EN 60730-2-8.

By using our special valve bodies, an extended variety of attachment combinations can be achieved (see data sheet 50.007.126 or 50.007.52x).

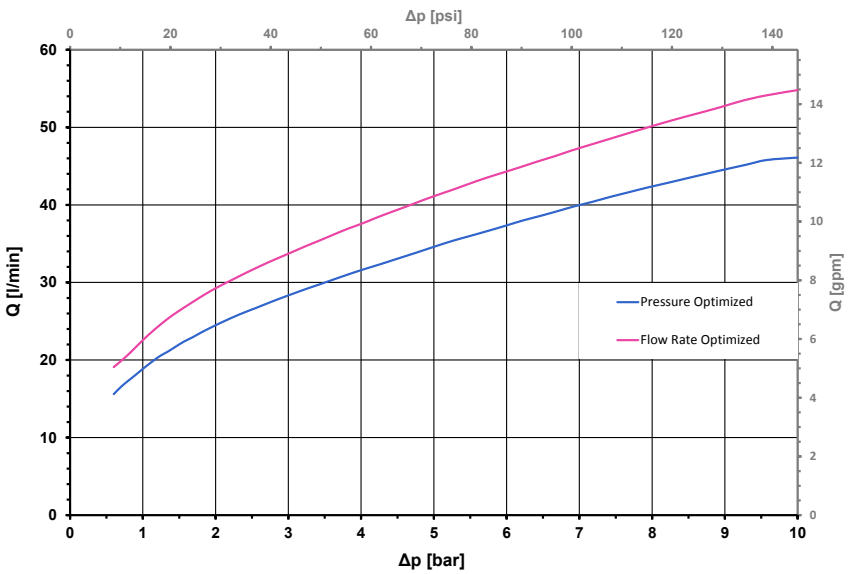
Applications

- Sanitary fittings: urinal, shower or bidet
- Irrigation systems
- Industrial appliances

Possible approvals

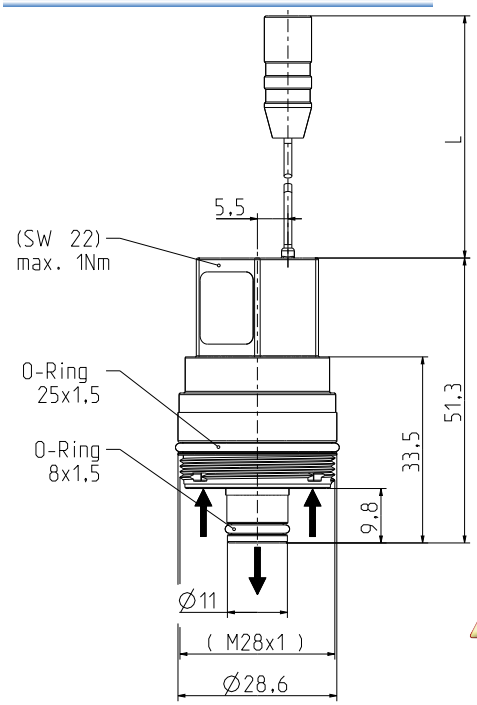
- KTW/W270
- NSF 61
- WRAS
- ACS
- Other approved versions available on request

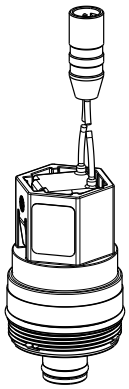
typical performance curve



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⚠ Before screw in o-rings are to be greased with silicone grease.

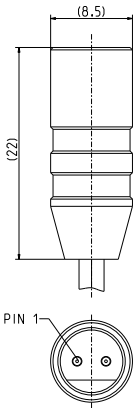
⚠ Max. Torque for screw in: 1Nm

Options

ID	Connection Type	Cable Length L
098018	Twin strands with male connector	167 ± 5 mm
098023		95 ± 5 mm
098027		295 ± 5 mm
098030	Twin strands without connector	150 ± 5 mm
098031	Twin strands with JST XHP-2 connector	147 ± 5 mm
Other Connection Types on Request		

Materials

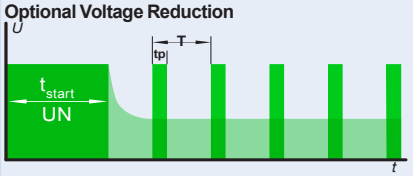
Valve body	PA 6/6
Seal support	PPSU
Plunger guide	LCP
Plunger	stainless steel
Membrane and sealings	EPDM
Filter	stainless steel (in inlet)



Male Connector	
Polarity of Connector:	
strand color RED (PIN 1)	PLUS(+) pulse to open
strand color BLUE	MINUS(-)

Technical Data

Type	Cartridge Valve	
Construction	2/2-way Screw-in, Servo Controlled	
Function	NC (normally closed)	
Connection	Thread M28 x 1	
Fitting Position	Any	
Media	Cold and heated potable water and physically and chemically similar media	
T-Medium	5 - 70	°C.
T-Ambient	5 - 60	°C
DN	7	mm
p-Operating	0,5 - 10,0	bar
Cv-Value **Pressure Optimized** **Flow Rate Optimized**	 17,3 21	 l/min l/min
Pressure Surge	According to EN 60730-2-8	
Burst Pressure	According to EN 60730-2-8	
Nominal Voltage	12 24	V DC V DC
	Other Voltages on Request	
Voltage Tolerance	-15 % +10 %	
Optional Voltage Reduction		



t_{start} : 100 ms tp:T ≥ 1:3 [>100Hz] PWM
t_{start} : 100 ms tp:T ≥ 1:4 [>1kHz] PWM

Nominal Power 12 V DC 24 V DC	 1,7 W 1,8 W	
Protection Type	IP 65	Higher IP-classes on request
Insulation Class	B	According to EN 60730-2-8

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

Hygiene advantage by air testing prior to delivery

Testing according EN 15091 and adjustment of the valve in the fitting upon request

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Screw-in Contour

