Product Information

Mono-Stable Cartridge Valve, DN 7

Series 50.007.101 mono M29



A. u. K. Müller

Solenoid valves
Control valves
Special valves and systems

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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 mono stable 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 to apply, as otherwise is needed, if a pilot valve will solely be used.

The flow rate of the cartridge valve has been optimized 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 bodys, an extended variety of application can be achieved (see data sheet 50.007.126 or 50.007.52x).

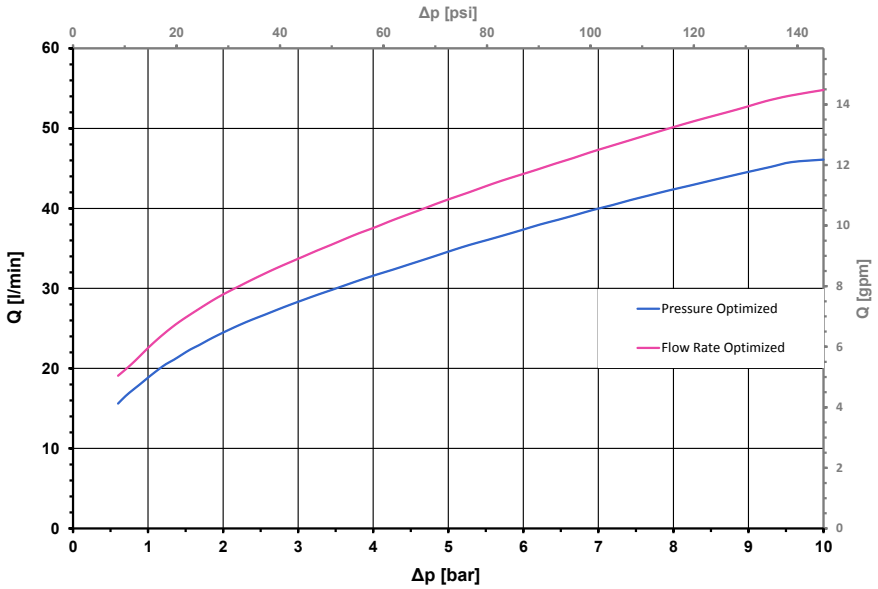
Applications

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

Possible approvals

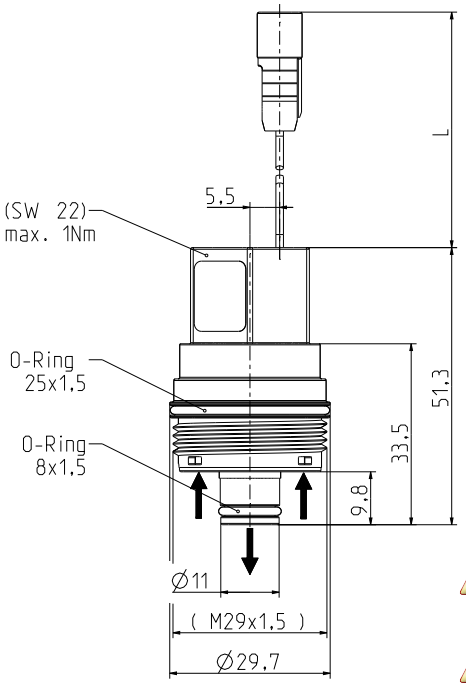
- KTW/W270
- NSF 61
- WRAS
- ACS
- Other a pproved versions available on request

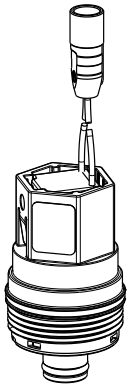
typical performance curve



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Series 50.007.101 mono M29





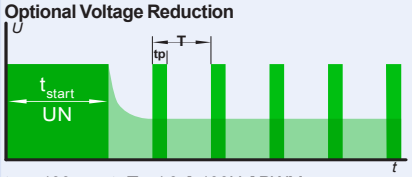
⚠ Before screw-in O-rings are to be greased with silicone grease

⚠ Max. Torque for Screw-in: 1 Nm

Technical Data

Type	Cartridge Valve	
Construction	2/2-way Screw-in, Servo Controlled	
Function	NC (Normally Closed)	
Connection	Thread M29 x 1,5	
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

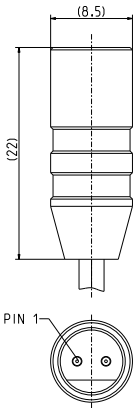
Testing according to EN 15091 and adjustment of the valve in the fitting upon request

Options

Connection Type	Standard Cable Length L
With leads and connector	95 ± 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(-)

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Screw-in Contour

