Bi Stable Plug-in Cartridge Valve, DN 5

Series 50.005.850 bi



Description

2/2-way solenoid cartridge servo controlled valve of DN 5 in bi stable version, for the control of potable water. The valve is especially suitable for use in electronically controlled, battery driven sanitary fittings.

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

The design outline has been reduced so far that the integration of the functional component in the system is possible, while using a minimum amount of space.

The design of a separate valve seat by the customer is not required, as otherwise needed if a pilot valve will solely be used.

The rate of flow of the cartridge valve has been optimized in such a way, that the nominal diameter of DN 5 fulfils the standard requirements for sanitary tap ware.

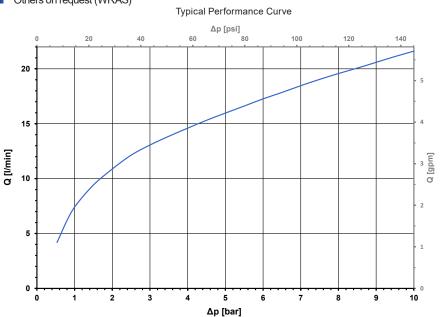
Applications

- Automatic fittings
- Sanitary fittings
- Pilot system for valves with a larger nominal diameter

Approvals

Approved versions available on request:

- KTW-BWGL System 1+
- ACS
- NSF 61
- Others on request (WRAS)





A. u. K. Müller

Solenoid valves Control valves Special valves and systems

A.u.K. Müller GmbH & Co. KG Dresdener Str. 162 D-40595 Düsseldorf/Germany

Tel.:	+49(0)211-7391-0
Fax:	+49(0)211-7391-281

e-mail: info@akmueller.de Internet: www.akmueller.de

Characteristics

Servo-controlled

- Pretested functional unit
- Suitable for the thermal as well as chemical disinfection
- Long term performance capability
 - Internal double pollution protection
- Compact, cylindrical design
- Optimized flow factor Kv for DN 5 (7,5 l/min at 1 bar)
- Optimized water hammer characteristic by low noise emission according to EN 60730 and EN 15091*
- Easy to assemble and service
- Low power consumption
- Any fitting position
- Suitable for spray and jet water
- High operating safety through the use of high quality material and hygiene benefit by 100% final testing with air

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

© copyright A.u.K. Müller, subject to changes without prior notice

E4021

1

Bi Stable Plug-in Cartridge Valve, DN 5

A. u. K. Müller

Туре

Construction

Function

Media

T-Medium

T-Ambient

p-Operating

Flow factor Kv

Pressure surge

Burst pressure

Operating

Nominal voltage 6

DN

Connection

Fitting position

Technical Data

cartridge valve

(M4) or clamped

any

media

5-70

5 - 60

0,5 - 10,0

5

7,5

2/2-way, servo controlled

bi stable, pulse controlled

plug mounted, secured with screws

cold and heated potable water and physically and chemically similar

> °C °C

mm

bar

l/min

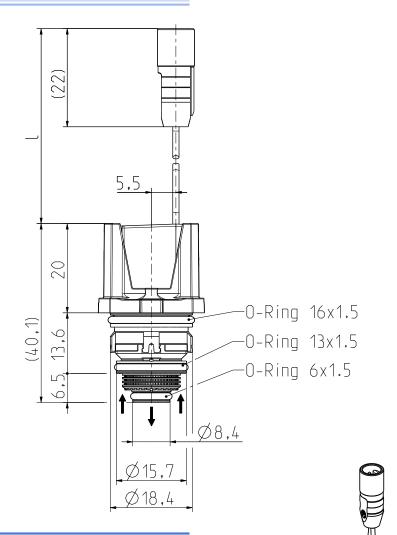
V DC

according to EN 60730

according to EN 60730

4,0 - 6,9 V DC open/close

Series 50.005.850 bi



Materials			
Valve body	PA 6/6		
Seal support	PPSU		
Plunger guide	LCP		
Plunger	stainless steel		
Membrane and sealings	EPDM		
Filter	POM		

Options				
Connection type	Standard cable length L			
with leads and connector	85 ± 5 mm			
	Connection type			

Others on request.

voltage			
	at T-ambient 25 °C		
Pulse shape/-time +U	9		
10 ms ON			
		OFF 12 ms	
-U			
Nominal power	1,4 W	@6V	
Protection Type	IP 65		
Insulation class	В	according to EN 60730	
Protection class	Ш	according to EN 60730	
Good resistance to 10 minutes) and che			
Hygiene advantage	by air testing	prior to delivery.	

Male connector

Polarity of connector: strand color RED Pin 1 strand color BLACK

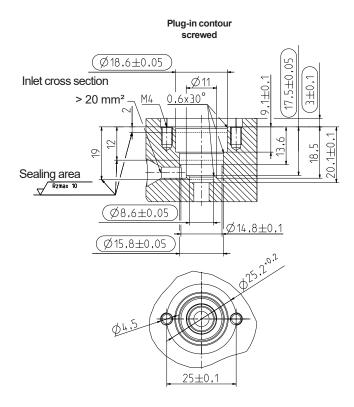
PLUS(+) pulse to open MINUS(-)

6

Bi Stable Plug-in Cartridge Valve, DN 5

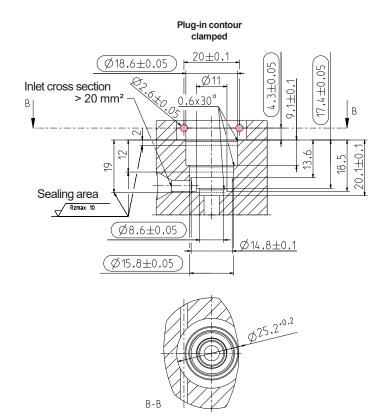
A. u. K. Müller

Series 50.005.850 bi



CT





Proposal for clamp





3



A. u. K. Müller

Solenoid valves Control valves Special valves and systems

A.u.K. Müller GmbH & Co. KG Dresdener Str. 162 D-40595 Düsseldorf/Germany

Tel.:	+49(0)211-7391-0
Fax:	+49(0)211-7391-281

e-mail: info@akmueller.de Internet: www.akmueller.de

(4)