Servo-direct stepper motor controlled valve, DN 10

Series 10.010.126 - sds



Description

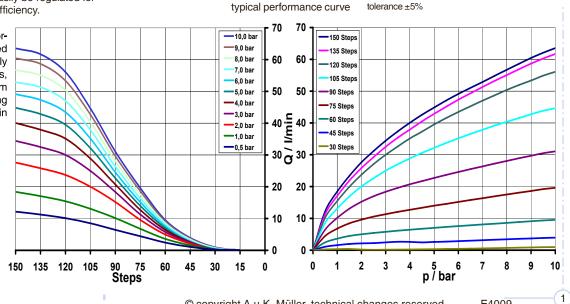
The 2/2 way servo-direct motorized valve has a 10mm orifice, but a continuously variable stroke to accurately control the flow through the valve. It can function with low inlet pressures and flow rates, similar in nature to a direct acting valve without a complete shut off function.

The stepper motor drive part of the valve is completely separated from the medium by means of special PTFE bellows. This valve has been specifically developed for applications that require continuous adjustment of the flow rate. For example the flow through an instant flash heater can easily be regulated for maximum accuracy and efficiency.

Alternatively, by incorporating the motorized valve in thermostatically controlled heating systems, the flow rate into the system can be controlled according to ambient temperature in the room.

Applications

- Thermostatically controlled heating system
- Instant flash heater
- Hot and cold vending machines
- Industrial equipment
- Air conditioning
- Agriculture equipment
- Cleaning equipment
- Temperature equalizers
- Dishwashers
- Washing machines
- Water treatment equipment



A.u.K. Müller

Solenoid valves Control valves Special valves and systems

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Characteristics

- Servo-direct controlled valve
- Stepper motor, medium separated by PTFE bellows
- Long term performance capability
- Medium temperature up to 80°C
- continuous opertion
- No water hammer
- High operating safety by usage of high quality material and 100% final testing

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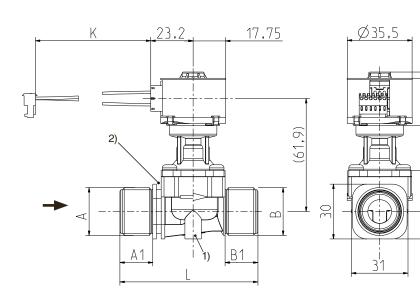
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1) Fixing possibility for self tapping screw Ø 4,2 2) Fixing groove

Materials Valve body PA 66 glass fibre reinforced PPE on request PEI on request **Retention gland** PPE PA 66 glass fibre reinforced

Nozzle

cone

Filter

(inlet)

Membrane

Bellow and sealing

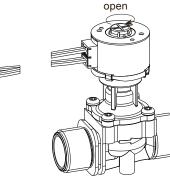
on request PA6/6

PTFE

EPDM

stainless steel

POM on request

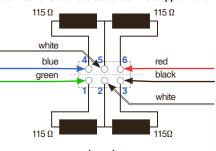


				Options		
Material	Inlet		Outlet		Length	Strand
	ØA	A1	ØВ	B1	L	К
PA 66	G 3/4	18,0	G 3/4	18,0	76,0	
PA 66	G 1/2	15,0	G 1/2	15,0	70,0	
PA 66	G 3/8	13,0	G 3/8	13,0	66,0	
PA 66	G 3/4	18,0	G 1/2	15,0	73,0	115 mm
PA 66	G 3/4	18,0	G 3/8	13,0	71,0	other lengths on
PA 66	G 1/2	15,0	G 3/4	18,0	73,0	request
PA 66	G 1/2	15,0	G 3/8	13,0	68,0	
PA 66	G 3/8	13,0	G 3/4	18,0	71,0	
PA 66	G 3/8	13,0	G 1/2	15,0	68,0	

Technical Data

type	stepper motorized valve		
construction	2/2-way single chamber straight valve, servo-, direct controlled		
function	continuously adjustable stroke		
fitting position	any, preferably actor upwards		
media	potable water and physically and chemically similar media		
T-Medium	80	°C max.	
T-Ambient	60	°C max.	
DN	10	mm	
p-Operating	0 - 10	bar	
Cv-value	20	l/min (completely open)	
actuator type	stepper motor unipolar		
steps (open - closed)	150	max.	
nominal voltage	18 V DC		
Voltage tolerance	±5%		
duty cycle	100%		
Nominal power	6 W		
Protection Type	IP 00		
Motor connection leads	6 x 0,22² / AWG 24 (AWM Style 1007)		
plug	AMP Tyco MTA 100 3-644563-6		
Insulation class	В	according to EN 60730	

connections and lead colours of the stepper motor



pulse scheme 0 ш IV I. Ш ÷ ÷ ÷ 1 2 -----3 ÷ + 4 ÷ ÷ 5 -----6 ÷ ÷ ÷ close open step frequency \leq 40 Hz \mathcal{C} $\mathbf{\mathbf{S}}$ \supset Ì

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