

MODEL	TORQUE [Nm]	OPENING/ CLOSING TIME	POWER SUPPLY	CONTROL	IP GRADE
MVS210	10	40 s	230 Vac	2p	42
MVS410	10	40 s	24 Vac	2p	42



APPLICATION AND USE

The actuator MVSx16 is used on ball valve installed on the heating or conditioning systems for hot or cool water.

OPERATION

The actuators are without spring return. At the decrease of the ambient temperature the controller with on-off output closes the control contact of the actuator by opening the valve. When it reaches the required temperature, the controller open the contact, closing the valve.

The end of stroke contact closes at fully open valve and opens as soon as the valve starts closing.

End of stroke contact:

Close = Open valve Open = close valve

ACTUATOR	CONTROL		
ACTUATOR	ON*	OFF	
MV\$210 MV\$410			

^{*} factory position without power supply

POSSIBLE CONNECTIONS AND MATCHES

ACTUATORS	BALL VALVES		
MV\$210 MV\$410		VSS2 VSS3 VSS4 VSS5	
	3-way	VSD3 VSD4	

MANUFACTURING CHARACTERISTICS

The housing is in plastic. In the upper part there is a position reference of the valve. It is complete with a 5 wires connection cable (standard length 80 cm), with PG11 cable gland and auxiliary limit contact.

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TECHNICAL CHARACTERISTICS

D	230 Vac (MVS210)		
Power supply:	24 Vac (MVS410)		
Anti-condensation resistance:	YES (only ON/OFF - open position)*		
Unlock position:	NO		
Rotation angle:	90°		
Stroke time (90°):	40 s		
Torque:	10 Nm		
Temp. on work:	-5° C ÷ 50° C		
Stock temp.:	-20° C ÷ 70° C		
Max umidity:	95%		
IP Grade:	IP42		
Certification:	CE		
Dimension:	111x55x68 mm		
Control:	ON-OFF		
Micro aux:	max. 6 (1) A 230 V		
Insulation class:	II		
Elettric motor:	bidirectional		
Gear:	Plastic / steel sintered		
Valve:	1/2" to 1"1/4 - 2/3 way (M/F)		
Cable:	5 pole H05 800 mm crimped		
Cover material:	Nylon light gray		
Weight:	0,30 Kg		

^{*} the anti-condensation resistance is active only on the 230V model when there is a control signal on the black wire (open valve position)

POWER CONSUMPTION [VA]						
MODEL	RUNNING	CLOSING POSITION	OPENING POSITION			
MVS210	~4	0	~1			
MVS410	~4	0	0,5			

The device contains electrical and electronic components and is not allowed to be disposed of as household refuse. All locally valid regulations and requirements must be observed.





1st Issue rev. c 04/2019 DBL537e Page 1

Any mounting position is allowed except the one with the actuator facing down.

Actuators and cable position IP42 guaranteed

Actuators and cable position IP42 not guaranteed

To assemble the MVSx10 actuator on the valve:

 Set the valves with the slot in horizontal position (factory position). A punching on the stem indicates the outlet direction.



- Verify that the indicator on the actuator is in horizontal position (factory position)
- Couple the valve with the actuator and insert the safety pin.

ATTENTION

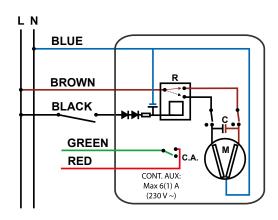
For **2-way valves**, by supplying the actuator without control signal, the valve move to the closed position. The actuator indicator will go in vertical position.

For **3-way valves**, by supplying the actuator without control signal, the valve move to the open position of the A and B ways. The actuator indicator will go in vertical position.

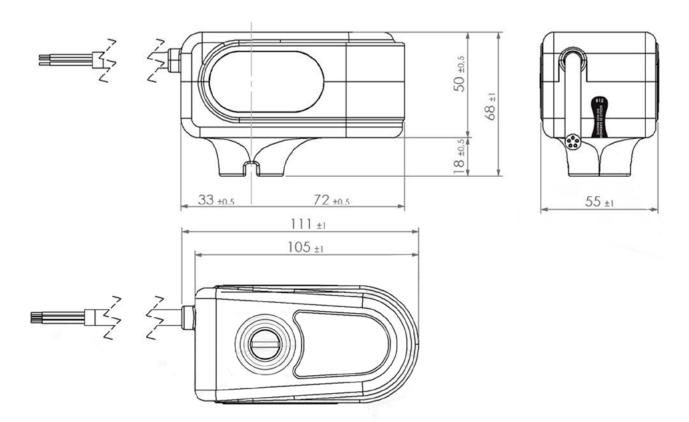
ELECTRIC CONNECTIONS

The actuators must be electrically connected in accordance with local regulations and with the connection diagrams.

Connection diagram 3 micro with relè



DIMENSIONS [mm]



The performances stated in this sheet can be modified without any prior notice

