

## MB3, MB6

The MB3 and MB6 are compact actuators for the VB210R, VB310R, VB200R and VB300R.

A 'pop top' connection between the valve and actuator provides a fast and easy installation.

Actuators are available in both spring return and non-spring return versions for floating, proportional and 2-position control.



## Specification

Supply Voltage		Materials	Thermoplastic base and cover.
Proportional and Modulating	24 Vac +25%, -15% @ 50/60 Hz.	Electrical Connection	Terminal Block
Two-Position	24 Vac 50/60, (+25%, -15%). 24 Vdc (+/-20%)	Cable Gland (M20)	5...9mm O/D
Manual Operation		Shipping & Storage Temp. Limits	-40...76°C
Floating / Modulation	Hand lever	Operating Temperature Range (at media temp. limits).	
Two Position	Hex Key (5/32")	Floating	0...60°C
Proportional Control (Field Selectable)	0...10 V, 0-5V, 5-10V, 4...20 mA Direct or reverse acting	Proportional	0...60°C
		Two-Position	0...76°C
		Humidity	5...95% relative humidity, non-condensing
		Enclosure Rating (Horizontal and Vertical Mounting)	IP31

## Two-Position Actuators

Part No.	Type Designation	Spring Return Action (Valve Normal Position)	Stroke Time, sec. 50/60 Hz	Spring Return Time, sec. 50/60 Hz	VA @ 24 V ac/dc	Power Consumption ac/dc
MB6-SO-24T	MB6 SRO-24T T31 00	Normally Open	50 sec.	35	3.5/1.8	2.3/1.6 W
MB6-SC-24T	MB6 SRC-24T T31 00	Normally Closed				

## Three Point Floating Actuators (Increase/Decrease)

Part No.	Type Designation	Spring Return Action (Valve Normal Position)	Stroke Time, sec. 50/60 Hz	Time-out Delay, sec. 50/60 Hz	VA	Power Consumption
MB3-24F	MB3-24F T31 00	None	160/135	N/A <sup>a</sup>	2.3	2.5 W
MB3-SO-24F	MB3 SRO-24F T31 T3	Normally Open		3.2 <sup>b</sup>	3.0 W	
MB3-SC-24F	MB3 SRC-24F T31 T3	Normally Closed				

a. No Time-out feature. Controller must provide time-out after 3 minutes on time.

b. Size transformer for each spring actuators at 10VA

## Proportional Actuators (0...10 V, 0...5V, 5...10V, 4...20 mA)

Part No.	Type Designation	Spring Return Action (Valve Normal Position)	Stroke Time, sec. 50/60 Hz	Time-out Delay, sec. 50/60 Hz	VA	Power Consumption
MB3-24M	MB3-24M T31 00	None	160/135	200/166	2.7 <sup>c</sup>	2.5 W
MB3-SO-24M	MB3 SRO-24M T31 00	Normally Open			2.7 <sup>c</sup>	
MB3-SC-24M	MB3 SRC-24M T31 00	Normally Closed				

c. Size transformer for each spring actuators at 10VA