



BM Series | Ball Valve Actuator 2 Nm / 5 Nm

Modulating Control



PRODUCT FEATURES

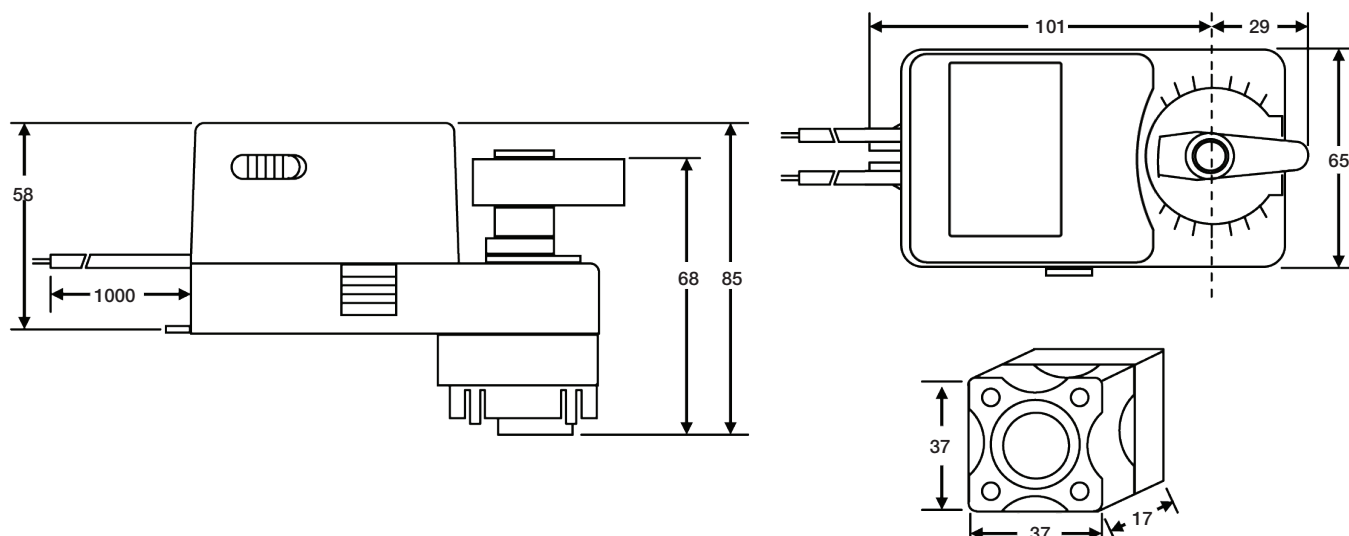
- Torque 2 Nm / 5 Nm
- Valve size DN15(1/2"), DN20(3/4"), DN25(1"), DN32(1 1/4")
- Power Supply AC/DC 24 V
- Control Modulating DC 0...10 V
- Shaft dimensions
 - □ 9.0 mm square (fixed)
- Selectable direction of rotation
- Actuator with 1000 mm cable connection
- Customer version on request

MODEL SELECTION TABLE


Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
2 Nm	60...90 sec	AC/DC 24 V ± 10%	No	02BM - 24
5 Nm	70...100 sec	AC/DC 24 V ± 10%	No	05BM - 24

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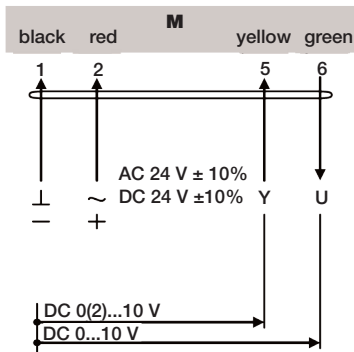
TECHNICAL SPECIFICATION

	02/05 BM
Torque	2 Nm / 5 Nm
Valve Size	DN15(½") / DN20(¾"), DN25(1"), DN32(1¼")
Shaft dimensions	□ 9.0 mm square (fix)
Power Supply	AC/DC 24 V ± 10%
Frequency	50-60Hz
Control Signal (Input)	DC 0...10 V
Position Signal (Output)	DC 0...10 V
Power Consumption	
- Operating	2.0 W
- End Position	2.0 W
For Wire Sizing	4.0 VA
Protection Class	III 
Angle of Rotation	0°...90° (95° mechanical)
Angle of Limiting	mechanical end stop
Weight	< 0.8 Kg
Life Cycle	60,000 rotation
Sound Level	40 dB (A)
IP Protection	IP54 (dust protected & protected against splash water)
Operating Temperature	-20°...50° as per IEC 721-3-3
Non-Operating Temperature	-30°...+60° C / IEC 721-3-2
Ambient Humidity	5%...95% rH non condensing / EN 60730-1
Maintenance	Maintenance free
Mode of Operation	Type I / EN 60730-1
EMC	CE according to 89 / 336 / EEC

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Wiring Diagram 02/05 BM Power Supply AC/DC 24 V

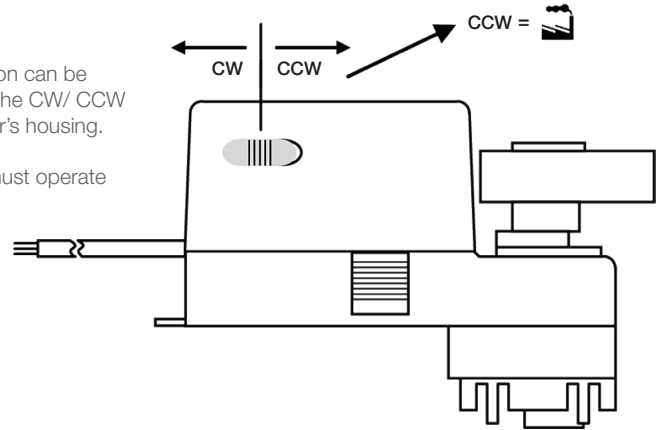


Changing Direction of Rotation 02/05 BM

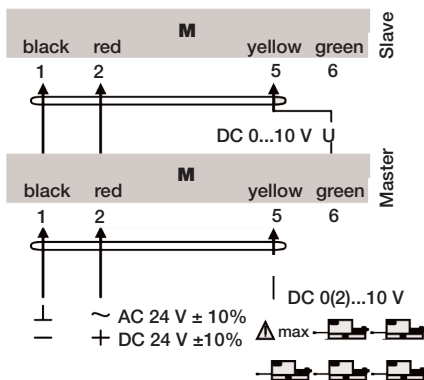
Factory-set CCW!

The direction of rotation can be changed by pushing the CW/ CCW switch on the actuator's housing.

Ball valve actuators must operate CCW!



Wiring Diagram 02/05 BM Parallel Connection



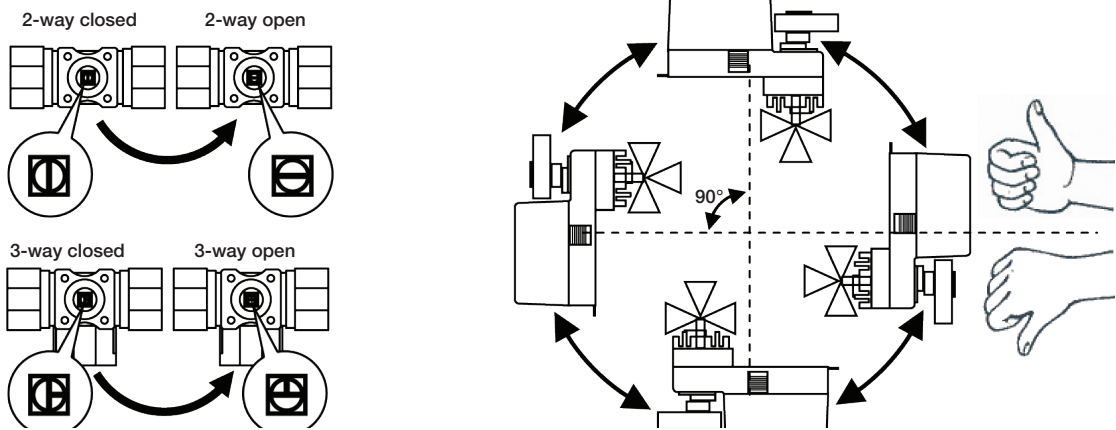
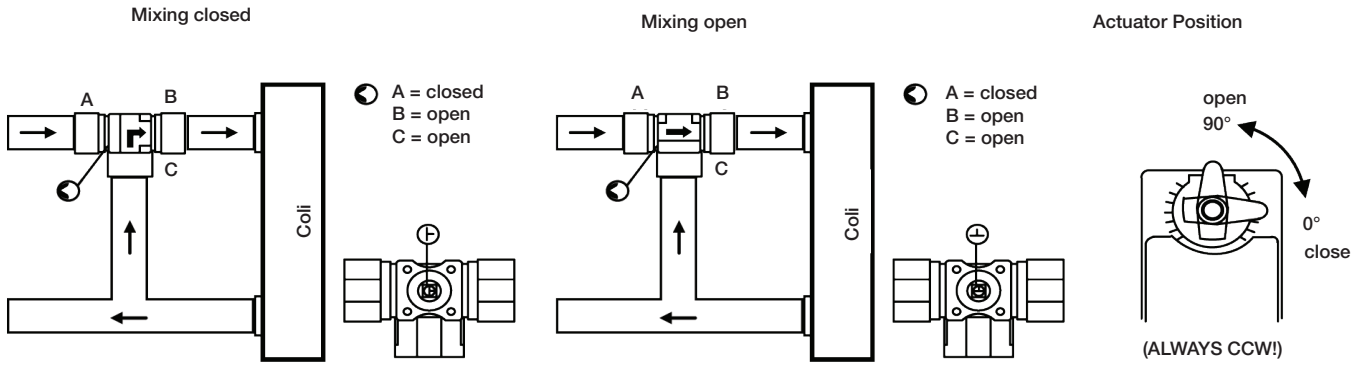
Remark

When 02/05 BM actuators operate in parallel, the output signal $U = DC\ 0...10\ V$ (terminal 6) of the master actuator must be connected to terminal 5 of the next slave actuator.

The power consumption must be observed.

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This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.



AC / DC 24 V: Connect via safety isolating transformer.

AC 230 V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm contact gap).