

NCBM...02 SERIES

BALL VALVE ACTUATOR - COMPACT MODULATING CONTROL



NCBM...02 SERIES

NCBM series is a compact, low torque valve actuator designed and produced to use in stationary heating, ventilation and air-conditioning systems. Its compact design makes it ideal for tight spaces, ensuring reliable performance. Our wide range of standard valve actuators has been developed to operate and position ball valves of different sizes.

PRODUCT FEATURE

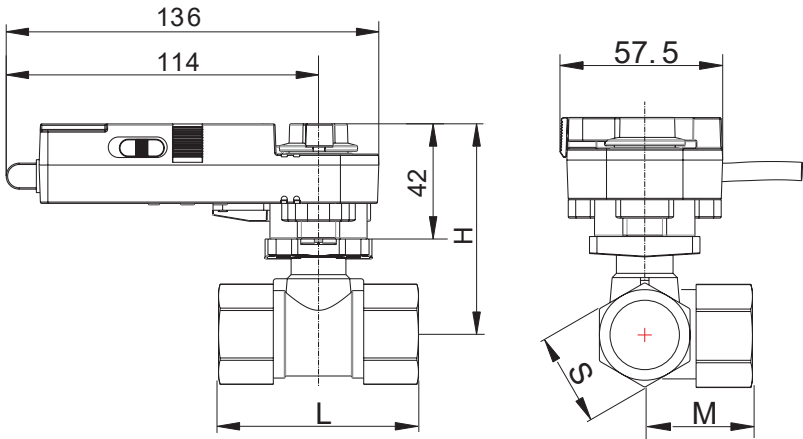
- Torque 2 Nm
- Valve size DN15(1/2“) / DN20(3/4“)
- Power supply AC/DC 24V
- Control modulating DC 0(2)...10 V
- Running time <50 sec
- Shaft dimensions - □ 9.0 mm (fixed)
- Adjustable angle of rotation
- Selectable direction of rotation
- Built-in manual override button

MODEL SELECTION TABLE

MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	AUXILIARY SWITCH
NCBM 1.2-02 LN	2 Nm	AC/DC 24 V ± 10%	<50 sec	-
NCBM 1.2-02 HN	2 Nm	AC/DC 24 V ± 10%	<50 sec	-

DIMENSION (mm)

		DN15	DN20
H	LN	72	77
	HN	108	113
L		60	67
S		25	32
M		30	32



TECHNICAL SPECIFICATION

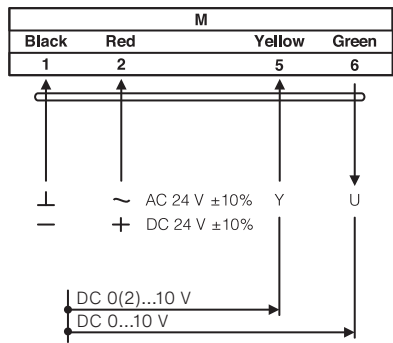
MODEL NUMBER	NCBM 1.2-02
TORQUE	2 Nm
VALVE SIZE	DN15(½") / DN20(¾")
SHAFT DIMENSION	□ 9.0 mm (fixed)*
POWER SUPPLY	AC/DC 24 V ± 10%
FREQUENCY	50...60 Hz
CONTROL SIGNAL (INPUT)	DC 0(2)...10 V
POSITION SIGNAL (OUTPUT)	DC 0...10 V
POWER CONSUMPTION	
• OPERATING	4.0 W
• END POSITION	1.0 W
FOR WIRE SIZING	6.0 VA
ELECTRICAL CONNECTION	1 m Cable
PROTECTION CLASS	Class III ⚡
ANGLE OF ROTATION	90° (95° mechanical)
WEIGHT	0.3 Kg
LIFE CYCLE	60,000 Rotation
SOUND LEVEL	40 dB
IP PROTECTION	IP54
OPERATING TEMPERATURE	-20°...50° as per IEC 721-3-3
NON-OPERATING TEMPERATURE	-30°...+60° C / IEC 721-3-2
AMBIENT HUMIDITY	0%...90% rH non condensing / EN
MAINTENANCE	Maintenance Free
MODE OF OPERATION	Type I / EN 60730-1
EMC	CE & ISO 9000 EN / EEC

*Note that shaft dimension has a tolerance offset of ± 0.2mm.

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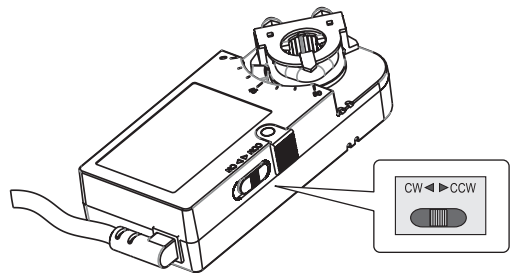
BALL VALVE ACTUATOR - COMPACT MODULATING CONTROL

WIRING DIAGRAM NCBM...02 POWER SUPPLY AC/DC 24V

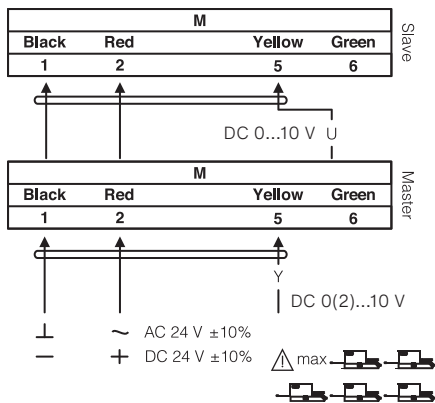


DIRECTION OF ROTATION NCBM...02

Default factory setting: CW.
Direction of rotation can be change by toggling between CW/CCW switch on the actuator's housing.



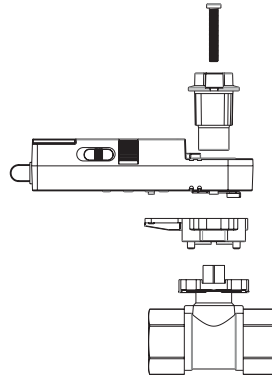
WIRING DIAGRAM NCBM...02 PARALLEL CONNECTION



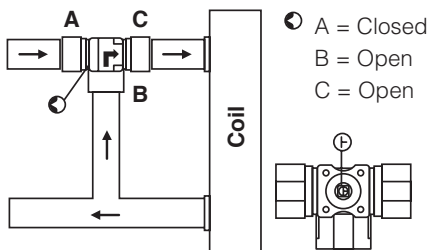
REMARK

Parallel connection of NCBM...02 actuators are limited to 5. Power consumption must be observe.

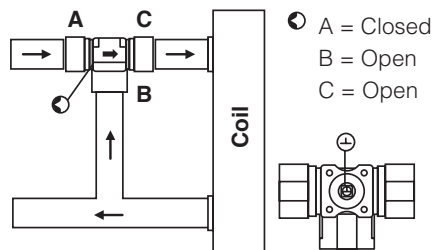
INSTALLATION INSTRUCTION



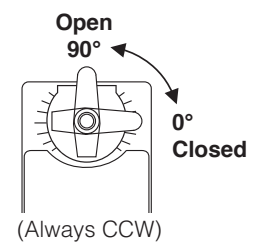
MIXING CLOSED



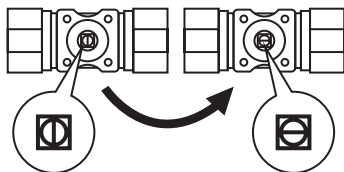
MIXING OPEN



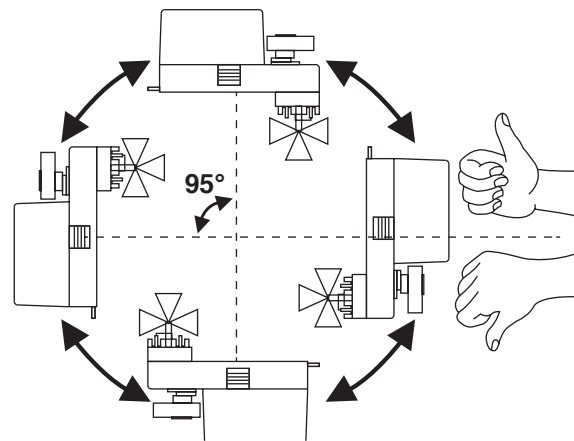
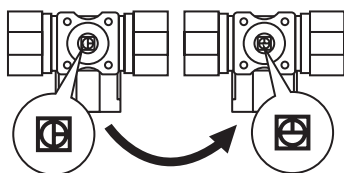
ACTUATOR POSITION



2-way Closed 2-way Open



3-way Closed 3-way Open



IMPORTANT REMARK

For special requirement, consult your local Nenutec's representative.



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 3mm contact gap.)

The performance specifications are nominal and conform to acceptable industry standards. NENUTEC shall not be liable for damages resulting from misapplication or misuse of its products.

Disclaimer:

While we strive for accuracy, product specifications may change without notice. Images are for illustration only. Contact our sales team for the latest information.