

NEBA SERIES BALL VALVE ELECTRONIC RETURN ACTUATOR

2 Point Control 10 Nm



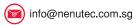
NENUTEC ASIA PACIFIC PTE LTD

7030 Ang Mo Kio Ave 5 #03-56 Northstar @ AMK Singapore 569 880









NEBA SERIES BALL VALVE ELECTRONIC RETURN ACTUATOR

2 Point Control 10 Nm



NEBA...10 (S1) HN SERIES

NEBA electronic return ball valve actuator is especially designed and produced for applications in the HVAC systems. Our wide range of standard valve actuators has been developed to operate and position ball valves of different sizes.

PRODUCT FEATURE

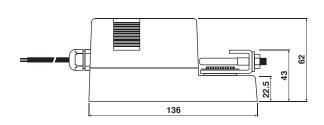
- Torque 10 Nm
- Valve size DN40(1½") / DN50(2")
- Power supply AC/DC 24 V and AC 230 V
- Shaft dimensions □ 9.0 mm (fixed)
- Selectable direction of rotation of reversing actuator
- Actuator with 1 m cable connection

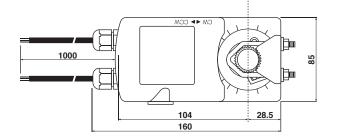
MODEL SELECTION TABLE

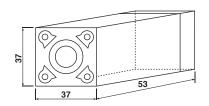
MODEL / TYPE	TORQUE	POWER SUPPLY	RUNNING TIME	RETURN	AUXILIARY SWITCH
NEBA 1-10 HN	10 Nm	AC/DC 24 V ± 10%	6080 sec	40 sec	-
NEBA 1-10 S1 HN	10 Nm	AC/DC 24 V ± 10%	6080 sec	40 sec	1 x SPDT (Adjustable)
NEBA 2-10 HN	10 Nm	AC 230 V ± 10%	6080 sec	40 sec	-
NEBA 2-10 S1 HN	10 Nm	AC 230 V ± 10%	6080 sec	40 sec	1 x SPDT (Adjustable)



DIMENSION (mm)







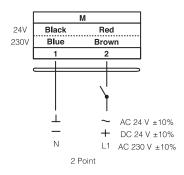
TECHNICAL SPECIFICATION

MODEL NUMBER	NEBA 1-10 (S1) HN	NEBA 2-10 (S1) HN
TORQUE	10 Nm	10 Nm
VALVE SIZE	DN40(1½") / DN50(2")	DN40(1½") / DN50(2")
SHAFT DIMENSION	□ 9.0 mm (fixed)	☐ 9.0 mm (fixed)
POWER SUPPLY	AC/DC 24 V ± 10%	AC 230 V ± 10%
FREQUENCY	5060 Hz	5060 Hz
CONTROL SIGNAL	2 control	2 control
POWER CONSUMPTION		
OPERATING	7.2 W	7.2 W
END POSITION	1.2 W	1.2 W
FOR WIRE SIZING	140 VA	10 VA
ELECTRICAL CONNECTION	1 m Cable	1 m Cable
AUXILIARY SWITCH RATING	3 (1.5) A, AC 250 V	3 (1.5) A, AC 250 V
PROTECTION CLASS	Class III 🕪	Class III 🗆
ANGLE OF ROTATION	90° (95° mechanical)	90° (95° mechanical)
WEIGHT	< 0.8 Kg	< 1.2 Kg
LIFE CYCLE	60,000 Rotation	60,000 Rotation
SOUND LEVEL	40 dB	40 dB
IP PROTECTION	IP54	IP54
OPERATING TEMPERATURE	-20°50° as per IEC 721-3-3	-20°50° as per IEC 721-3-3
NON-OPERATING TEMPERATURE	-30°+60° C / IEC 721-3-2	-30°+60° C / IEC 721-3-2
AMBIENT HUMIDITY	5%95% rH non condensing / EN	5%95% rH non condensing / EN
MAINTENANCE	Maintenance Free	Maintenance Free
MODE OF OPERATION	Type I / EN 60730-1	Type I / EN 60730-1
EMC	CE & ISO 9000 EN / EEC	CE & ISO 9000 EN / EEC

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WIRING DIAGRAM NEBA...10 (S1) HN POWER SUPPLY AC/DC 24V / AC 230V

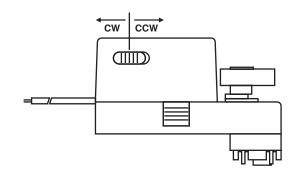


↑ Connect via safety isolating transformer

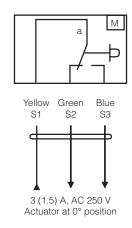
DIRECTION OF ROTATION NEBA...10 (S1) HN

Default factory setting: CCW.

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



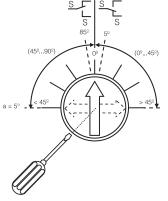
WIRING DIAGRAM NEBA...10 (S1) HN AUXILIARY SWITCH



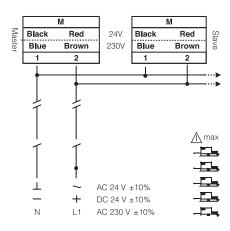
AUXILIARY SWITCH NEBA...10 (S1) HN

Switch a factory-set at 5°.

The auxiliary switch can be optimally adjusted between $0^{\circ}...90^{\circ}$.



WIRING DIAGRAM NEBA... 10 (S1) HN PARALLEL CONNECTION



REMARK

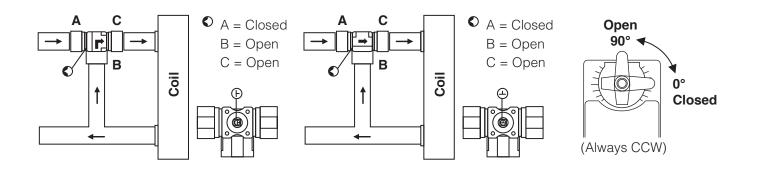
Parallel connection of NEBA... 10 (S1) HN actuators are limited to 5. Power consumption must be observe.

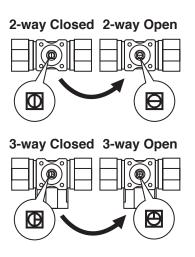


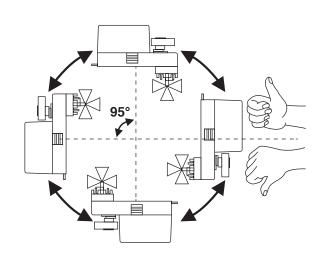
MIXING CLOSED

MIXING OPEN

ACTUATOR POSITION







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.



Connect via safety isolating transformer.

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.