

10 Nm| MODULATING CONTROL



## NEBM...10 (S1) HN SERIES

NEBM series electronic return valve actuators are 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.

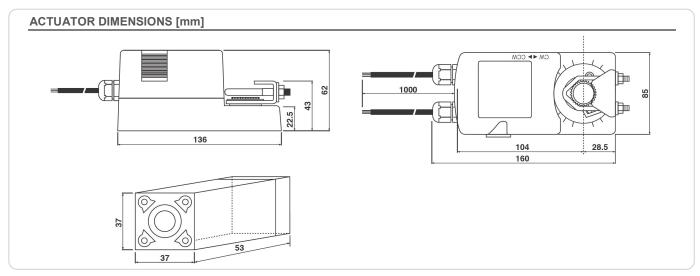
Torque: 10 Nm
Valve size DN40(1½") / DN50(2")
Power supply 24V <sub>AC/DC</sub>
 Control Modulating 0(2)10 V <sub>DC</sub> & 0(4)20 mA
Shaft dimension – 9 mm square (fixed)
Direction of rotation selectable by switch
Actuator with 1 m connection cable
Optional 1 adjustable SPDT auxiliary switch

The appearance of the product may differ from the illustration. Technical specifications are subject to change.

MODEL SELECTION TABLE					
Model/type	Torque	Power supply	Running time	Emergency function	Auxiliary switch
NEBM 1.1-10 HN	10 Nm	$24 V_{AC/DC} \pm 10\%$	6570 s	40 s	-
NEBM 1.1-10S1 HN	10 Nm	$24 V_{AC/DC} \pm 10\%$	6570 s	40 s	1 x SPDT (adjustable)



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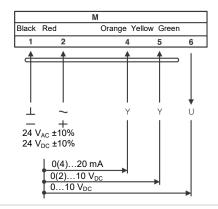


	NEBM 1-10 (S1) HN	
Torque	10 Nm	
Valve size	DN40(1½") / DN50(2")	
Shaft dimensions	□ 9.0 mm (fixed)	
Power supply	24 V <sub>AC/DC</sub> ± 10%	
Frequency	5060Hz	
Control signal (Input)	0(2) 10 V <sub>DC</sub> / 0(4)20 mA	
Position signal (output)	010 V <sub>DC</sub>	
Power consumption		
In operation	7.2 W	
End position	1.2 W	
Rated power	14.0 VA	
Electrical connections	1 m Cable	
Auxiliary switch rating	3 (1.5) A / 250 V <sub>AC</sub>	
Protection class	Class III Ф	
Angle of rotation	90° (95° mechanical limitation)	
Weight	<0.8 kg	
Durability	60,000 rotations	
Sound level	40 dB	
IP protection class	IP54	
Working temperature range	-20°C50°C as per IEC 721-3-3	
Storage temperature	-30°C+60°C / IEC 721-3-2	
Ambient humidity	595% rH (non condensing) / EN	
Maintenance	Maintenance free	
Principle of operation	Type 1 (acc. to EN 60730-1)	
Electromagnetic compatibility	CE & ISO 9000 to EN / EEC	



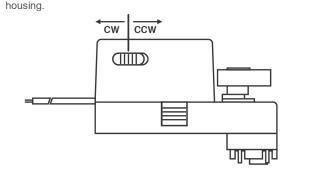
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# WIRING DIAGRAM NEBM...10 (S1) HN POWER SUPPLY 24 V<sub>AC/DC</sub>

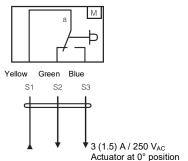


#### **DIRECTION OF ROTATION NEBM...10 (S1) HN**

Factory setting: clockwise (CW). Direction of rotation can be changed by toggling between CW/CCW switch on the actuator housing.

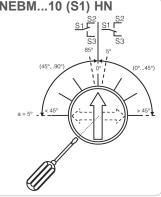


#### WIRING DIAGRAM NEBM...10 (S1) HN AUXILIARY SWITCH

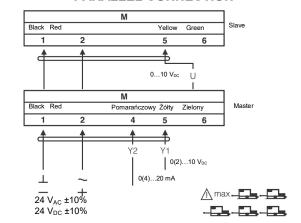


#### **AUXILIARY SWITCH NEBM...10 (S1) HN**

Switch **a** factory-set at 5°. The auxiliary switch can be adjusted in the range 0°...90°.



# WIRING DIAGRAM NEBM...10 (S1) HN PARALLEL CONNECTION

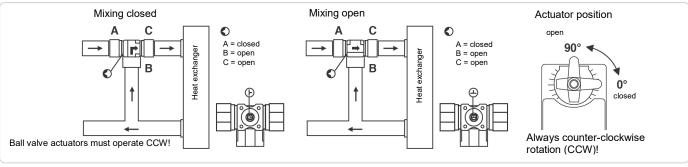


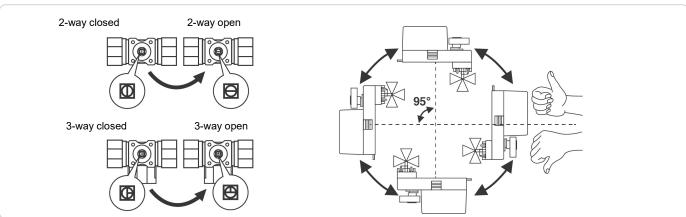
#### **REMARK**

During parallel operation, the output signal (terminal 6, 0...10  $V_{\text{DC}}$  of the master actuator must be connected to terminal 5 of the next slave actuator.



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

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

230 V<sub>AC</sub>: 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.)

Consult NENUTEC representatives for specific requirements and material selections for your intended application.

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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.

#### **CUSTOMISED VERSION**

NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colourcoordinated applications and with your particular demand on request.

For further information please contact us or our local representative.

#### Nenutec Polska

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