



- NABA...02/05 (S1) LN series
- NENUTEC standard valve actuators are especially designed and produced for applications in the HVAC systems.
- Our wide range of NENUTEC standard valve actuators has been developed to operate and position ball valves of different sizes.

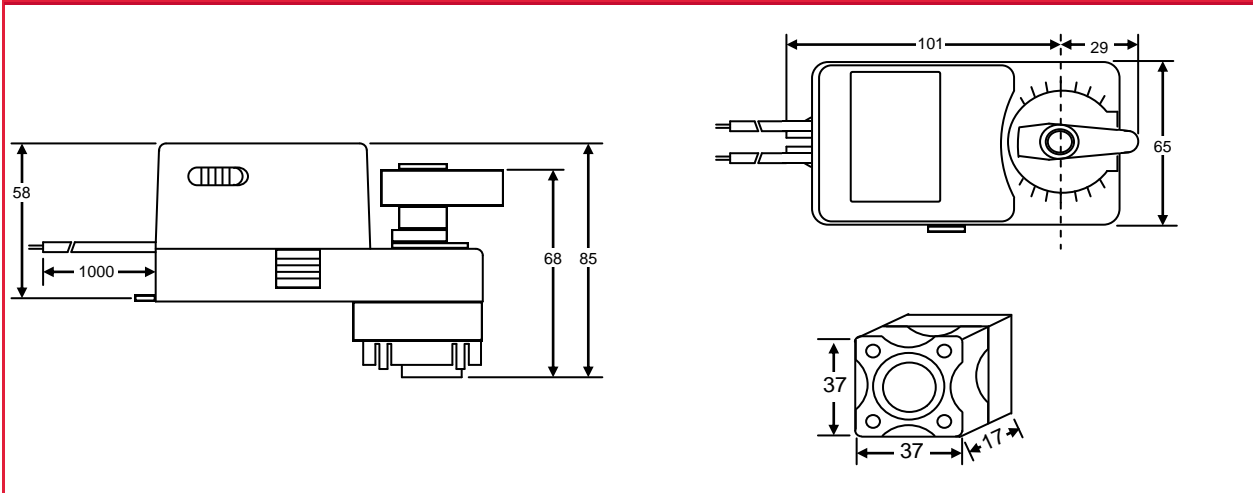
Product Features

- 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 and AC 230 V
- Control 2 Point and 3 Point
- 1 adjustable auxiliary switch (SPDT)
- Shaft dimensions
 - 9.0 mm square (fix)
- 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 /
2 Nm	60...90 sec	AC/DC 24 V ± 10%	No	NABA 1-02
2 Nm	60...90 sec	AC/DC 24 V ± 10%	1 x SPDT	NABA 1-02
2 Nm	60...90 sec	AC 230 V ± 10%	No	NABA 2-02
2 Nm	60...90 sec	AC 230 V ± 10%	1 x SPDT	NABA 2-02
5 Nm	70...100 sec	AC/DC 24 V ± 10%	No	NABA 1-05
5 Nm	70...100 sec	AC/DC 24 V ± 10%	1 x SPDT	NABA 1-05
5 Nm	70...100 sec	AC 230 V ± 10%	No	NABA 2-05
5 Nm	70...100 sec	AC 230 V ± 10%	1 x SPDT	NABA 2-05

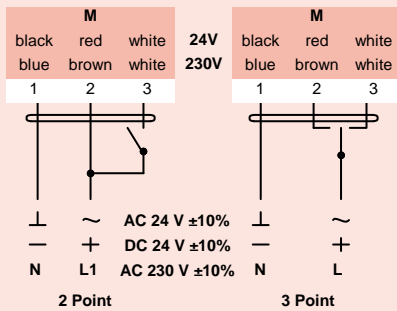
Actuator Dimensions (mm)



Technical Specification

	NABA 1... (S1)	NABA 2... (S1)
Torque	2 Nm / 5 Nm	
Valve Size	DN15(1/2") / DN20(3/4"), DN25(1"), DN32(1 1/4")	
Shaft dimensions	9.0 mm square (fix)	
Power Supply	AC/DC 24 V ± 10%	
Frequency	50...60Hz	
Control Signal	2 point and 3 point	
Power Consumption		
-Operating	2.0 W	
-At the end stops	2.0 W	
For wire sizing	4.0 VA	12.0 VA
Auxiliary Switches Rating (Amp and Voltage)	3 (1.5) A, AC 250 V	
Protection Class	III	II
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	
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	
Maintenance	Maintenance free	
Mode of Operation	Type I / EN 60730-1	
EMC	CE and ISO 9000 EN / EEC... Requirements	

Wiring Diagram NABA 1/2...(S1) Power Supply AC/DC 24 V - AC 230 V



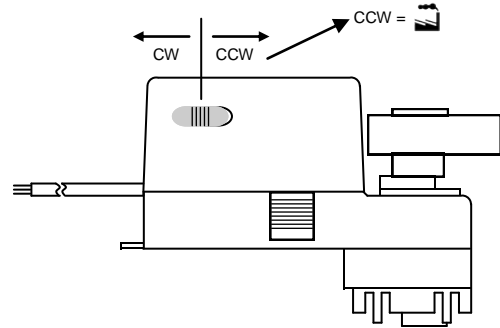
⚠ Connect via safety isolating trans-

Changing Direction of Rotation NABA 1/2...(S1)

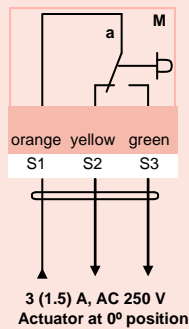
Factory-set CCW!

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

Ball valve actuators must operate CCW!



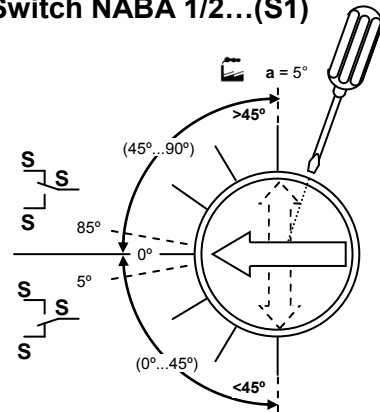
Wiring Diagram NABA 1/2...(S1) Auxiliary Switch



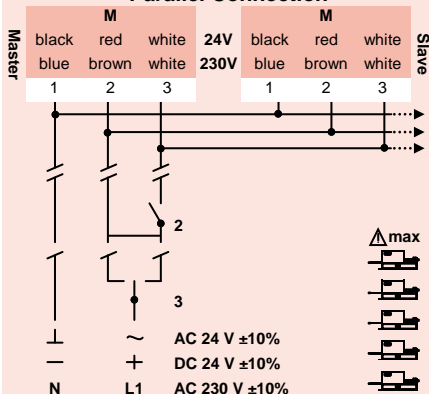
Adjustment of Auxiliary Switch NABA 1/2...(S1)

Switch a factory-set at 5°

The auxiliary switch can be optimally adjusted between 0°...90°.

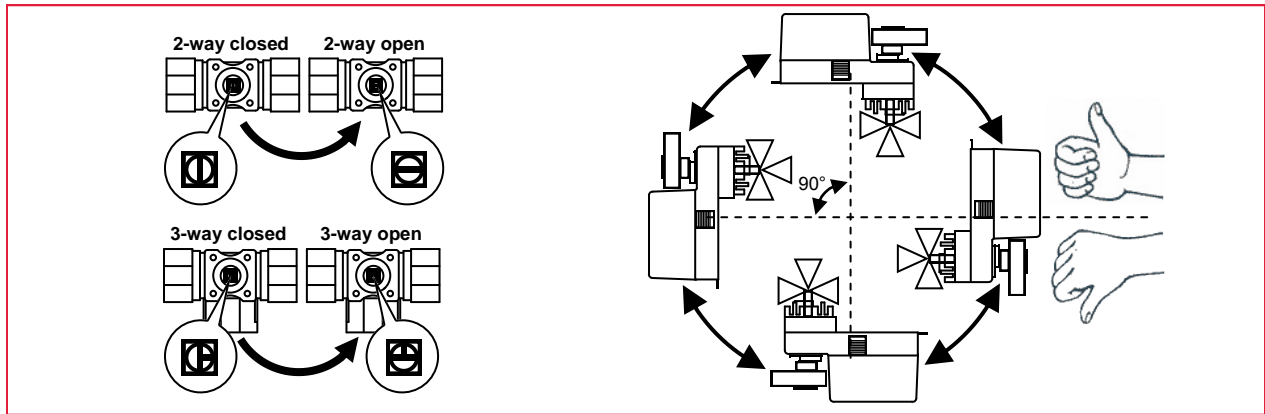
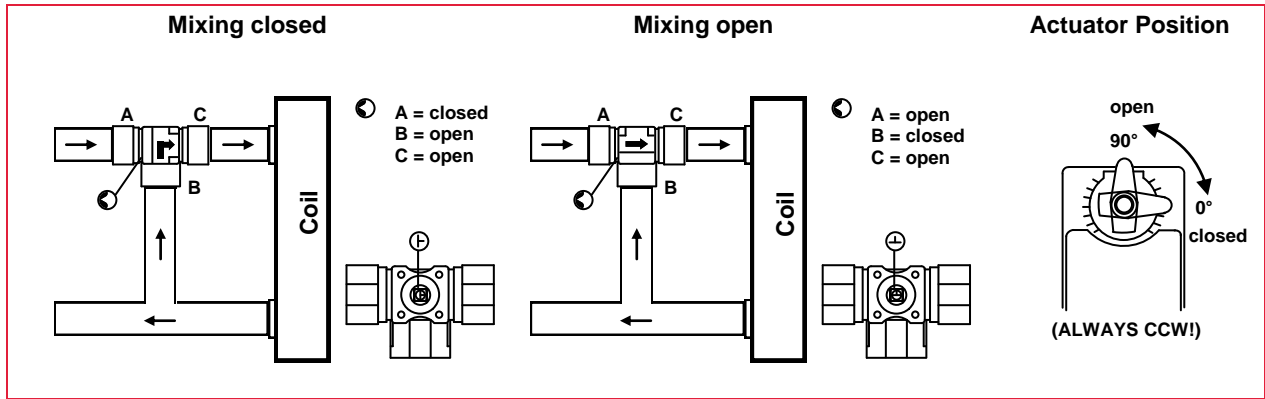


Wiring Diagram NABA 1/2...(S1) Parallel Connection



Remark

Parallel connection of several NABA...(S1) actuators is possible. The power consumption must be observed.



OEM Customised Version on Request

TELIMA/NENUTEC offers you actuators in customised versions, e.g. with your own brand name, with colour-coordinated applications and with your particular demand. Please contact us for further information.

Important Remark

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

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).

Main Office :

NENUTEC®
NENUTEC ASIA PACIFIC PTE LTD
 7030 Ang Mo Kio Ave 5 #08-55
 Northstar@AMK
 Singapore 569 880
 Phone : +65 6570 3233
 Fax : +65 6570 6783
 Email : info@nenutec.com.sg
 Website : www.nenutec.com.sg

Headquarter:

TELIMA AG
 Schachenstrasse 80
 CH-8645 Jona / Switzerland
 Phone : +41 55 212 40 60
 Fax : +41 55 212 40 69
 Email : info@telima.ch
 Website : www.nenutec.com

