



Description

- NABM...10 (S1) series
- MAPLE standard valve actuators are especially designed and produced for applications in the HVAC systems.
- Our wide range of MAPLE standard valve actuators has been developed to operate and position ball valves of different sizes.

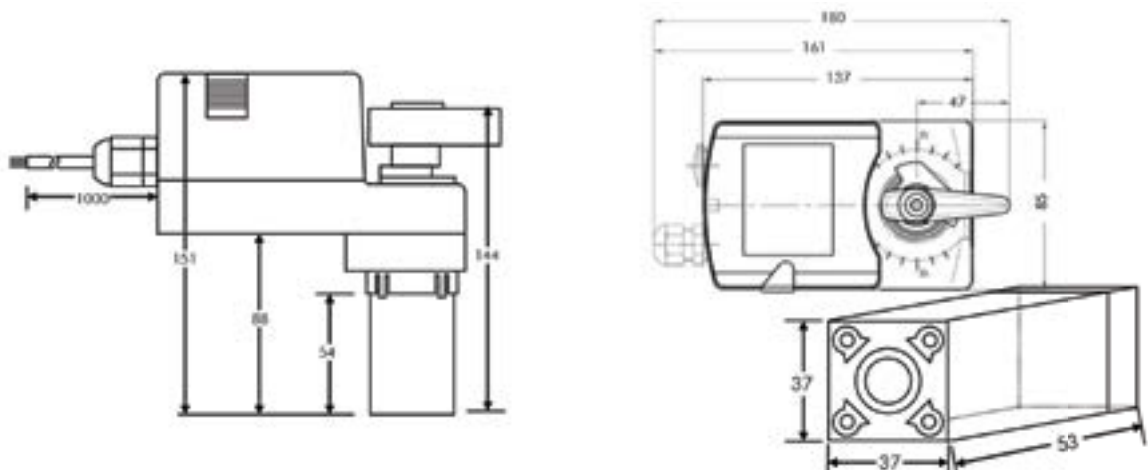
Features

- Torque 10 Nm
- Valve size DN40(1 1/2"), DN50(2")
- Power Supply AC/DC 24 V
- Control Modulating DC 0(2)...10 V
- 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

Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
10 Nm	100...150 sec	AC/DC 24 V \pm 10%	No	NABM 1-10
10 Nm	100...150 sec	AC/DC 24 V \pm 10%	1 x SPDT	NABM 1-10 S1

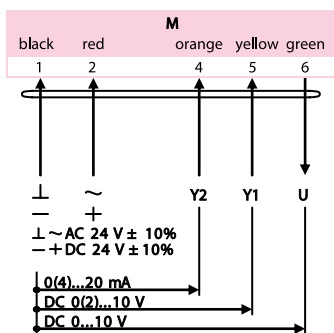
Actuator Dimensions *Unit : mm*



Technical Specifications

Torque	10 Nm
Valve Size	DN40(1½"), DN50(2")
Shaft Dimensions	□ 9.0 mm square (fix)
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	2.0 W
- End Position	4.0 W
For Wire Sizing	4.0 VA
Auxiliary Switch Rating	3 (1.5) A, AC 250 V
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	IP 54 (dust protected & protected against splash water)
Operating Temperature	-20°...+50° C / IEC 721-3-3
Non-Operating Temperature	-30°...+60° C / IEC 721-3-2
	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

Wiring Diagram NABM 1.1...(S1)
Power Supply AC/DC 24 V

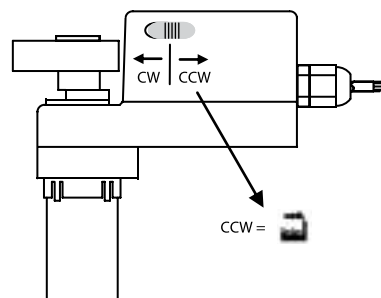


Changing Direction of Rotation NABM 1.1...(S1)

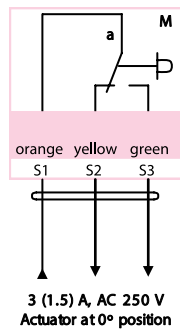
Factory-set CCW!

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

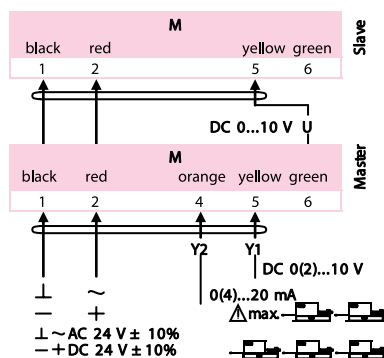
Ball valve actuators must operate CCW!



**Wiring Diagram NABM 1.1...(S1)
Auxiliary Switch**



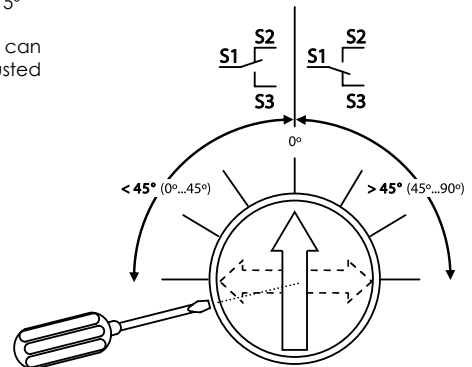
**Wiring Diagram NABM 1.1...(S1)
Parallel Connection**



Adjustment of Auxiliary Switch NABM 1.1...(S1)

Switch a factory-set at 5°

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



Remark

When NABM...(S1) 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.

