

Climate
Control

IMI Heimeier

M106 actuator for Globo



Ball valves

For Globo ball valves from DN 10 to DN 32

M106 actuator

Easy installation by change of the Globo operating toggle.
Application e.g. for On/Off-control in heating or drinking water systems. The actuator is also suitable for ball valves with heat insulation shell.

Key features

Easy subsequent installation

By change of the Globo operating toggle

Use for ON/OFF control with 230 V / 24 V

In heating or drinking water systems

Suitable for use with IMI Heimeier insulation shells

The actuator is outside of the insulation

With handwheel

In case of manual emergency actuation



Technical description

Applications area:

On/Off-control with Globo ball valves DN 10 - 32

Power supply:

230 V AC +6% / -10%
24 V AC +10% / -10%

Frequency:

50/60 Hz $\pm 5\%$.

Power consumption:

3,5 VA

Input signal:

3-point

Ingress protection:

IP 43

Protection class:

(according to EN 61140)
II (230V variant)
III (24V variant)

Temperature:

Medium temperature: max. 80°C
Ambient temperature 0°C to 50°C

Actuating time:

At 50 Hz/90°: 130s

End position switch-off:

Fixed at 90°

Angle of rotation:

90°

Operating mode:

S4-50% ED c/h 1200, EN 60034-1

Adjusting torque:

8 Nm

Cable:

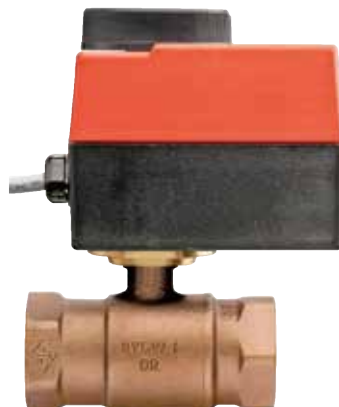
1,5 m, three wire (0,5 mm²) with wire end ferrule

Construction

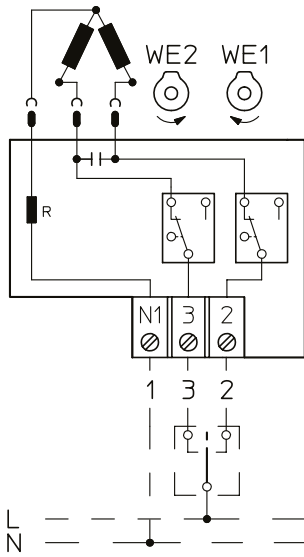
Globo ball valve



Globo ball valve with M106 actuator



Connection diagram



Attention:

Connecting several actuators via one output contact is not permitted! One coupling relay must be provided for each actuator.

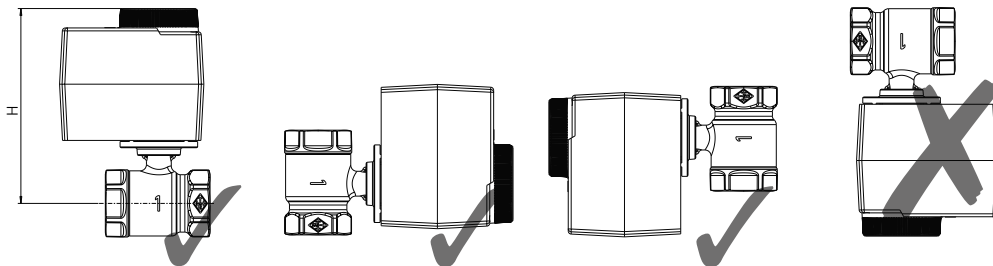
Installation

Enclosure protection:

IP 43
EN 60529

IP 43
EN 60529

IP 43
EN 60529



DN Globo	H
10	121,5
15	121,5
20	124,5
25	127
32	130,5

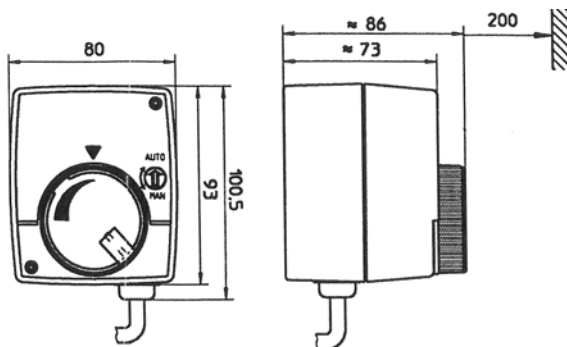
Troubleshooting table

Disturbances	Possible reasons	Trouble-shooting
1. Actuator does not work	<ul style="list-style-type: none"> • The rotary knob is in the MAN position instead of AUTO. • Power failure. • Fuse defective. (in the control cabinet) • Actuator connected incorrectly. • Short circuit through: <ul style="list-style-type: none"> - Humidity - Wrong connection • Motor has winding damage (blown), e.g. due to excessive voltage or defective electronics. 	<ul style="list-style-type: none"> • Turn the rotary knob to the AUTO position, engage the gearbox. • Determine and eliminate the cause. • Determine and eliminate the cause. Replace fuse. • Correct the connection according to the circuit diagram (in / on the hood). • Determine the cause exactly <ul style="list-style-type: none"> - Dry the actuator, replace screwconnections if necessary and/or attach a protective hood. - Correct connection (see above). • Determine the cause, measure power supply, compare with label, replace the motor, remove the actuator if necessary and send it in for repair.
2. Actuator runs unstable, that means commuting between clockwise and counterclockwise rotation.	<ul style="list-style-type: none"> • Voltage drop due to too long connecting cables and/or too small cross section. • Grid fluctuations greater than the admissible tolerance. 	<ul style="list-style-type: none"> • Measure power supply on actuator, if necessary, recalculate and replace the connecting cables. • Improve grid conditions.
3. Actuator temporarily fails or initializes often	<ul style="list-style-type: none"> • Cable has loose contact. 	<ul style="list-style-type: none"> • Check and tighten the connections (terminal strip / connection cable).
4. Actuator does not move into the end positions. Actuator does not close/open.	<ul style="list-style-type: none"> • Motor capacitor defect. • System pressure too high. • Foreign objects in the actuator 	<ul style="list-style-type: none"> • Replace the main board. • Correct the system pressure. • Remove foreign objects and clean the actuating element.

Articles

M106 actuator for Globo ball valves

DN 10 to DN 32



Power supply	EAN	Article No
230 V	4024052902811	0600-00.700
24 V	4024052040025	0600-01.700

Delivery without ball valve.