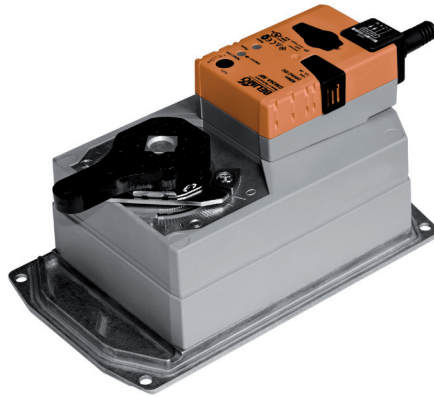


Rotary actuator for butterfly valves

- Nominal torque <90 Nm (not constant)
- Nominal voltage AC/DC 24 V
- Control Open-close


Technical data

| | | |
|------------------------|--|---|
| Electrical data | Nominal voltage | AC/DC 24 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 19.2...28.8 V / DC 19.2...28.8 V |
| | Power consumption in operation | 4 W |
| | Power consumption in rest position | 2 W |
| | Power consumption for wire sizing | 6 VA |
| | Connection supply / control | Cable 1 m, 3 x 0.75 mm ² |
| | Parallel operation | No |
| Functional data | Torque motor | Max. <90 Nm (not constant) |
| | Manual override | Gear disengagement with push-button, can be locked |
| | Running time motor | 150 s / 90° |
| | Sound power level motor | 45 dB(A) |
| | Position indication | Mechanically (integrated) |
| Safety | Protection class IEC/EN | III Safety extra-low voltage |
| | Protection class UL | UL Class 2 Supply |
| | Degree of protection IEC/EN | IP54 |
| | Degree of protection NEMA/UL | NEMA 2, UL Enclosure Type 2 |
| | EMC | CE according to 2004/108/EC |
| | Certification IEC/EN | IEC/EN 60730-1 and IEC/EN 60730-2-14 |
| | Certification UL | cULus according to UL 60730-1A, UL 60730-2-14 and CAN/CSA E60730-1:02 |
| | Mode of operation | Type 1 |
| | Rated impulse voltage supply / control | 0.8 kV |
| | Control pollution degree | 3 |
| Mechanical data | Ambient temperature | -30...50 °C |
| | Non-operating temperature | -40...80 °C |
| | Ambient humidity | 95% r.h., non-condensing |
| | Maintenance | Maintenance-free |
| | Connection flange | F05 |
| Weight | Weight approx. | 4.2 kg |

Safety notes

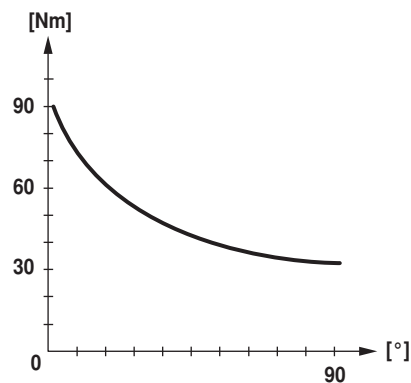

- This device has been designed for use in stationary heating, ventilation and air conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The switch for changing the direction of rotation may not be adjusted.
- The angle of rotation is not permitted to be subjected to mechanical limitation. It is forbidden to alter the mechanical end stops.
- The device may only be opened at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- Cables must not be removed from the device.

Safety notes

- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- Because of its non-constant torque, the actuator is neither suitable nor released for motorisation with valves from other manufacturers. No legal entitlement can be claimed, even after extensive testing. Belimo will not be held liable and will provide no warranty.

Product features

| | |
|------------------------------------|--|
| Simple direct mounting | Simple direct mounting on the butterfly valve. The mounting orientation in relation to the butterfly valve can be selected in 90° (angle) increments. |
| Manual override | Manual override with push-button possible (the gear is disengaged for as long as the button is pressed or remains locked). |
| High functional reliability | The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached. |
| Combination valve/actuator | For valves with the following mechanical specifications in accordance with ISO 5211 F05: - Square stem head SW = 14 mm for form-fit coupling of the rotary actuator. - Hole circle d = 50 mm |
| Torque not constant | Due to the non linear torque characteristic the actuator can only be used for butterfly valves and not for other armatures. |



Accessories

| | Description | Type |
|-------------------------------|---|---------|
| Electrical accessories | Auxiliary switch, add-on, 1 x SPDT | S1A |
| | Auxiliary switch, add-on, 2 x SPDT | S2A |
| | Feedback potentiometer 140 Ohm, add-on | P140A |
| | Feedback potentiometer 200 Ohm, add-on | P200A |
| | Feedback potentiometer 500 Ohm, add-on | P500A |
| | Feedback potentiometer 1 kOhm, add-on | P1000A |
| | Feedback potentiometer 2.8 kOhm, add-on | P2800A |
| | Feedback potentiometer 5 kOhm, add-on | P5000A |
| | Feedback potentiometer 10 kOhm, add-on | P10000A |

Electrical installation

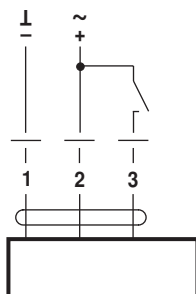


Notes

- Connection via safety isolating transformer.

Wiring diagrams

AC/DC 24 V, open-close

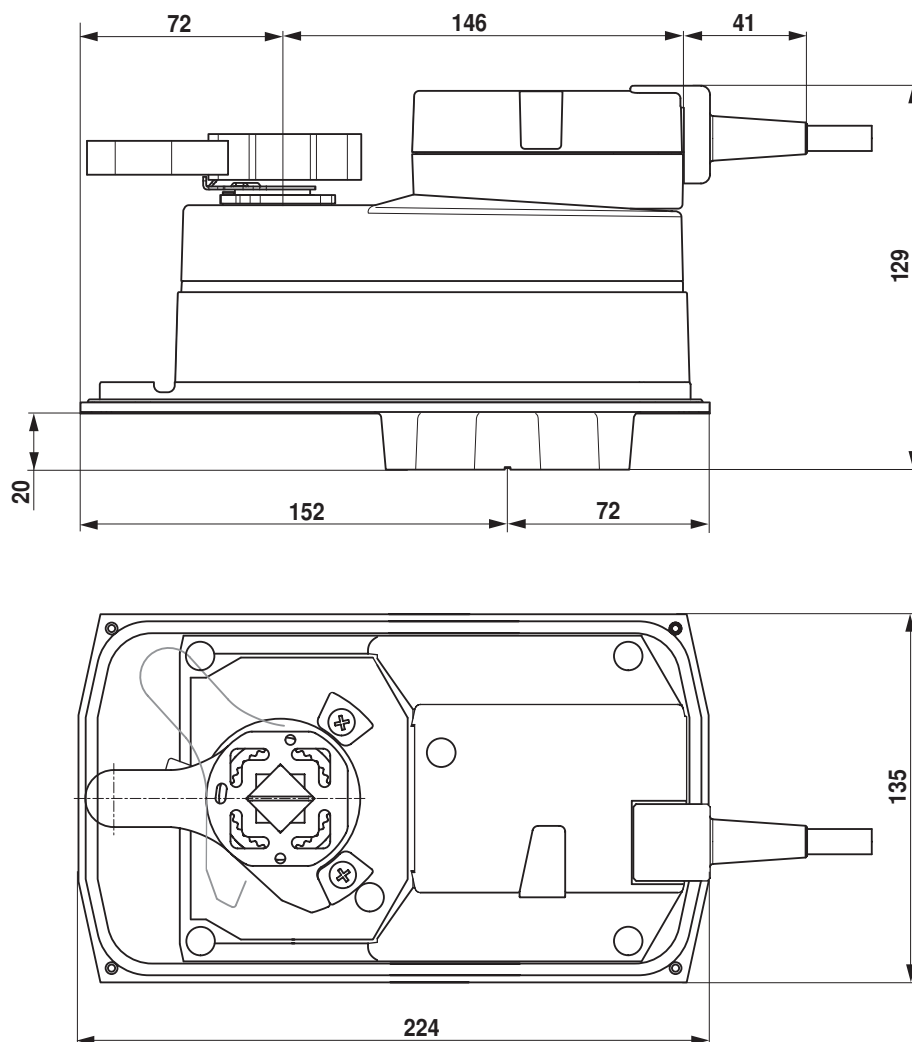


Cable colours:

- 1 = black
- 2 = red
- 3 = white

Dimensions [mm]

Dimensional drawings



Further documentation

- Overview Valve-actuator combinations
- Data sheets for butterfly valves
- Installation instructions for actuators and/or butterfly valves
- General notes for project planning