TROX® TECHNIK
The art of handling air

EXPLOSION-PROOF ACTUATORS

FOR OPENING AND CLOSING MULTILEAF DAMPERS INSTALLED IN POTENTIALLY EXPLOSIVE ATMOSPHERES (ATEX)

Explosion-proof actuators for Type JZ and JZ-Low leakage multileaf dampers

- ATEX-compliant construction and parts

- Approved for gases, mists and vapours in zones 1 and 2, and for dusts in zones 21 and 22
- Supply voltage 24 V AC/DC or 230 V AC
- Pneumatic actuators with torque 8 – 70 Nm
- Electric actuator with torque 15 or 30 Nm
- Pneumatic: Double acting or single acting actuator for a positive lock connection with a multileaf damper
- Electric: Spring return actuator for a positive lock connection with a multileaf damper

Optional equipment and accessories

- Solenoid valve 24 V or 230 V
- Limit switches

Application

Application

- Explosion-proof actuators for opening and closing
- Opening and closing of Type JZ and JZ-Low leakage multileaf dampers
- For use in potentially explosive atmospheres (ATEX)
- For steel or stainless steel multileaf dampers with brass or stainless steel bearings

Special characteristics

- ATEX mark and certification
- Approved for gases, mists and vapours in zones 1 and 2, and for dusts in zones 21 and 22

Description

Parts and characteristics

Construction and materials comply with the EU directive and guidelines for use in potentially explosive atmospheres (ATEX)

Electric

- Actuators with overload protection
- Control input signal: 2-wire control (3-point, open/close)
- Spring return actuator for damper blade safety function
- Auxiliary switch for capturing the end positions
- Crank handle for manual operation

Pneumatic

- Pneumatic actuators, single acting or double acting
- Control input signal: 1-wire control of a solenoid valve
- Optional limit switch for capturing the end positions
- Safety function with double acting actuators (power off)
- Safety function with single acting actuators (pressure off)

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Functional description

The actuator moves the blades of a multileaf damper into OPEN or CLOSED position.

Electric spring return actuator

Control input signal with 2-wire control (3-point).

Double acting pneumatic actuators

The easiest way to generate the control input signal is electrically, using solenoid valves.

The multileaf damper is opened and closed with compressed air. For this purpose, the actuator has two tube connections. Compressed air is applied to one tube connection while the other connection remains open such that the air can escape from the corresponding chamber of the actuator. For the other direction of rotation, the process is reversed.

Single acting pneumatic actuators

The easiest way to generate the control input signal is electrically, using solenoid valves.

The multileaf damper is closed with compressed air and opened with spring force. The actuator has one tube connection. This tube connection is for compressed air. For the other direction of rotation the connection remains open.

Special characteristics

- ATEX mark and certification
- Approved for gases, mists and vapours in zones 1 and 2, and for dusts in zones 21 and 22