



PNEUMATIC ACTUATORS

PNEUMATIC ACTUATORS FOR THE OPENING AND CLOSING OF DAMPERS IN AIR CONDITIONING SYSTEMS

Pneumatic actuators for Type JZ and JZ-Low leakage multileaf dampers

- Change of the damper blade position for two different operating situations
- Control input signal: Operating pressure of 1.2 – 6 bar
- Pneumatic actuator, single acting or double acting
- Torque 8 – 70 Nm
- Retrofit possible

Optional equipment and accessories

- Solenoid valve 24 V or 230 V
- Limit switches

Application



Application

- Pneumatic actuators for opening and closing
- Opening and closing of Type JZ and JZ-Low leakage multileaf dampers

Special characteristics

- Different opening and closing times can be set using throttle valves
- Interdependent torque and operating pressure (double acting actuator)
- Maintaining the blade position without additional power
- Short running times
- Resistant to overload, temperature fluctuations and electromagnetic effects
- Compressed air is easy to store

Description



Parts and characteristics

- 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.

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

Different opening and closing times can be set using throttle valves.

Double acting pneumatic actuators

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 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

- Different opening and closing times can be set using throttle valves
- Interdependent torque and operating pressure (double acting actuator)
- Maintaining the blade position without additional power
- Short running times
- Resistant to overload, temperature fluctuations and electromagnetic effects
- Compressed air is easy to store