

Flap Closure

DS-KLV / DS-KLG



Features

- Pneumatic actuated shut-off valves for screw dosing devices of the DSR-25 / DSR-10 series or devices supplied by the customer.
- Compact design requiring minimal installation space.
- Flap actuation by solenoid valve.
- Initiators to monitor the flap position.
- Exceptionally service friendly.
- Robust construction for unfailing reliability, even under the harsh operating conditions.
- Tested and verified according to European CE standard.

Application

- As a shut-off element for dosing devices handling dry, powdered and granular bulk materials.
- The flap closure prevents the bulk material from shooting into the empty dosing hopper during filling.
- To avoid in-flight-material when filling containers in subsequent processes, for instance when weighing one or more components with the revolving hopper scales of the types ED-90 and ED-91.

Operating principal

- The closure flap is actuated by a double-acting pneumatic cylinder which, in turn, is controlled by a 5/2-way solenoid valve with an exhaust-air throttle.
- Initiators monitor the closure flap position.

Standard equipment

- Type DS-KLV:
 - Supporting ring made of normal steel, matching the outside screw tube diameters of 40, 60 and 90 mm; secured with screws and hose band-clip.
 - Closure flap with rubber washer.
 - Emergency closure spring in the event of a breakdown of the pneumatic system.
 - Clamping screws and hose band clips for mounting on the supporting tube.
 - Pneumatic system consisting of double-acting pneumatic cylinder, solenoid valve with coil, exhaust-air throttle and various screw connections.

- A solenoid valve power supply failure automatically closes the closure flap.
- Initiator to monitor the "CLOSED" flap position.
- Surfaces of normal steel parts are galvanized.
- Type DS-KLG:
 - Dust-tight case made of normal steel, with supporting ring matching the nominal screw tube diameters of 40, 60 and 90 mm; secured with screws.
 - Closure flap with rubber washer.
 - Emergency closure spring in the event of a of pneumatic system breakdown.
 - Clamping screws for mounting on the supporting tube.
 - Pneumatic system consisting of double-acting pneumatic cylinder, solenoid valve with coil, exhaust-air throttling and various screw connections.
 - A solenoid valve power supply failure automatically closes the closure flap.
 - Read contact to monitor the "CLOSED" flap position.
 - Read contact to monitor the "OPEN" flap position.
 - The surfaces of the normal steel parts are galvanized.

Accessories

- Type DS-KLV:
 - Steel parts made of stainless steel, 1.4301.
 - Initiator to monitor the "OPEN" flap position.
 - Rubber washer material according to the buyer's specifications.
- Type DS-KLG:
 - Steel parts made of stainless steel, 1.4301.
 - Connection for a dust-extracting facility.
 - Down pipe with cuff collar; length according to the customer's specifications.
 - Rubber washer material according to the buyer's specifications.

Technical data

- Solenoid supply voltage 24 V_{DC}; 4.5 W.
- Operating pressure of the pneumatic system 4.5 to 6 bar.
- Permissible ambient temperature -20°C to +80°C.

