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# SD

CMO VALVES

## UNIDIRECTIONAL DAMPER

### APLICATION
Specially designed to be fitted in installations for the transport of fine-grained solid fluid like cement, ash, sand, etc.

### USE
In all kinds of industries in which pneumatic transport is performed, either by pipe with flanges or bar, for other pressures or applications please ask **CMO Valves.**

### WORKING PRESSURES (ΔP)
The standard maximum working pressure is 8 bar in the closing direction and 1 bar for the opposite part.
Other pressures or applications please ask **CMO Valves.**

### CONSTRUCTION
- **Body:** Cast iron, steel, stainless steel, etc.
- **Seal:** - metal/metal - AISI 304 + Estellite
  - Soft-seated - AISI304 + EPDM
- **Shafts:** AISI 304
- **Packing:** Depends on the temperature and working conditions.

### TEMPERATURE
From -10ºC to +900ºC

### ACTUATOR
Manual, pneumatic, electric, etc.

*Fig. 1*

## INSTALLATION

1. The **SD** valve will be assembled in such a way that the fluid penetrates into the valve via the seal, i.e. the fluid circulates in the direction of the arrow.
2. Clean the inside of the valve, taking particular care over the seal.
3. Take particular care not to damage the valve's seal.
4. Tighten the screws on the flanges crossways to the same tightness.
5. We must take special care in maintaining the correct distance between the counterflanges and ensure they are correctly aligned and parallel. The incorrect positioning of the counter-flanges will cause deformations on the body which will lead to handling difficulties.
6. Do not remove the plugs from the cylinder until it is time to connect the air pipes.

## MAINTENANCE

1. Every 6 months or earlier, if necessary, remove the inspection cover and check the condition of the seal, if any wear can be observed. replace it as soon as possible as it will deteriorate quickly once the leak starts.
2. To replace the seal, remove the screws from the O-ring via the inspection cover.
3. Clean the seats on the ring and disc on the valve's body.
4. Fit the new seal with its joints, making sure that it is tightened evenly.
5. Check that the cylinder's damper is working.
6. Place a thin piece of paper on top of the disc, close the valve, the seal must leave an identical marked along the whole circumference.
7. Check that the cylinder's two chambers are not communicated at all.
8. Fit the inspection cover with its seal.
9. Every 6 months or earlier, grease the shaft points.
10. Re-tighten the screw on the external plate.