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PNEUMATIC ACTUATOR - DOUBLE ACTING



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The pneumatic cylinders of our valves are manufactured and assembled in our own facilities. The maintenance of these cylinders is simple, if an element needs to be replaced, if you have any questions, contact CMO VALVES. Below is an exploded image of the pneumatic drive and a listing of the cylinder components. The upper cover and support cover are usually made of aluminum, but from pneumatic cylinders larger than Ø200 mm, they are made of cast GJS-400.

MANTENANCE

The usual maintenance kit includes: the bushing with its seals and the scraper, if the customer wishes, the plunger is also supplied. Below we show the steps to follow to replace these parts.

1. Place the valve in the closed position and close the pressure in the pneumatic circuit.
2. Loosen the air inlet connections to the cylinder.
3. Release and remove the upper cover (5), the sleeve (4) and the tie rods (16).
4. Loosen the nut (14) that is the union between the plunger (3) and the stem (1), extract the parts. Disassemble the cir-clip (10) and extract the bushing (7) with its gaskets (8,9).
5. Release and remove the support cover (2), in order to remove the scraper (6).
6. Replace the damaged parts with new ones and assemble the drive in the opposite order to that described for disassembly.

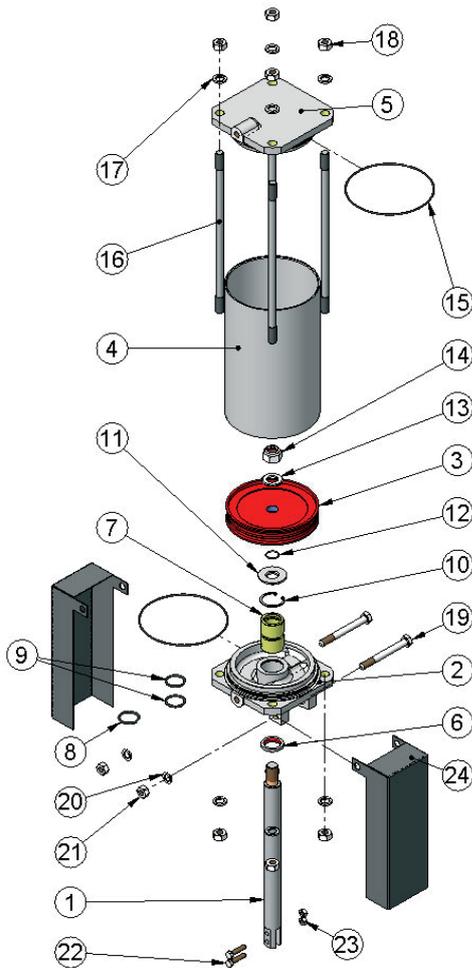


Fig. 1

PNEUMATIC ACTUATOR		
POS.	DESCRIPTION	MATERIAL
1	STEM	AISI-304
2	SUPPORT COVER	ALUMINIUM
3	PLUNGER	S275JR + EPDM
4	CASING	ALUMINIUM
5	UPPERCOVER	ALUMINIUM
6	SCRAPER	NITRILE
7	SOCKET	NYLON
8	OUTER O-RING	NITRILE
9	INNER O-RING	NITRILE
10	CIR-CLIP	STEEL
11	WASHER	ST ZINC
12	O-RING	NITRILE
13	WASHER	ST ZINC
14	SELF-LOCKING NUT	5.6 ZINC
15	O-RING	NITRILE
16	TIES	F-114 ZINC
17	WASHER	ST ZINC
18	NUT	5.6 ZINC
19	SCREW	5.6 ZINC
20	WASHER	ST ZINC
21	NUT	5.6 ZINC
22	SCREW	A-2
23	SELF-LOCKING NUT	A-2
24	PROTECTION	S275JR

Table. 1



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