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valvole speciali per l'industria

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Instruction Manual

Diaphragm Valve model GS.52-52/A

These models GS.52-52/A diaphragm valves, of the guided flow type, are normally open and are closed by a hydropneumatic cylinder with spring return.

The valve body and diaphragm can be supplied to customers' specifications and made of the materials most suitable for the various fluids flowing through them.

To maintain the valve in full efficiency, we therefore recommend replacement when necessary of the diaphragm, the set of packings, and the hydropneumatic cylinder spring.

To replace the diaphragm:

1. Remove the bolts, washers and nuts (part.15-14-11).
2. Remove the hydropneumatic unit
3. Remove the bolts, washers, nuts (part.7-5-4) and support (part.3).
4. To change the diaphragm take out the screws (part.13) holding the plug (part.6), and the old diaphragm can then be removed.
5. When re-assembling the parts, to ensure an efficient seal on the seat of the valve body, tighten bolts, washers and nuts (part.7-5-4) working crosswise.

To replace the packing and spring:

1. Remove the bolts, washers and nuts (part.15-14-11) and then lift out the hydropneumatic unit.
2. Unscrew the bronze nut (part.24). (If the valve is model gs.52/A, first remove the socket-headed screw (part.29) and take out the valve's manual structure.)
- 3 Remove the pin (part.1).
- 4 Unscrew the nuts, bolts and washers (part.16-18-17)
5. Packings and spring can then be replaced with new ones.
6. The small w-shaped packing (part.10) is placed in the cover (part.19), the large w-shaped packings (part.23) is placed in the piston (part.22), while the spring (part.20) is placed in its seat inside the cylinder (part.21).

Before re-assembling the unit, see that the inside of the cylinder is perfectly clean. During remounting oil all parts with silicon oil. Condensed air must be free of condensate.

N.B. All part numbers will be found in our technical and parts catalogue.