

# galassi & ortolani s.p.a.

valvole speciali per l'industria

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## **Instruction Manual**

### **Diaphragm Valve model GS.51-51 DIN G.S.55**

The models GS.51-51DIN diaphragm valves shown here is of the conveyed flow type with a loss of pressure below that of standard seat valves; according to the various operating conditions, the valve body can cast iron, vulcanite and cast iron, glazed cast iron, light alloy, etc., the diaphragm, in any case, consists of the material suitable for the specific service required from the valve. The head, complete with all control parts, consists of standard metals since the diaphragm protects it against any attack from fluids which the valves is supposed to control and check.

The diaphragm is controlled in the opening and closing positions, as a result the valve can operate even under vacuum, it is recommended on the other hand, never to exceed certain value of inner pressure also in connection with the valve size; users should specify on the enquiries, for this type of valves, the peak figures of the pressure and temperature of the fluid with which the valves are in contact.

Therefore for an efficient operation of the valve, we advise you to replace the diaphragm if need be necessary.

#### **To replace of the diaphragm:**

1. To take-off the bolts, the washers, the nuts (part.7-5-4).
2. After this operation, to unscrew through the control wheel (part.1) the plug (part.6).
3. So that come out completely from the cover (part.3).
4. At the end of this operation, we have a block made up of plug (part.6) and diaphragm (part.8).
5. To unscrew the clamping screw for bushing (part.13) that join the two half of the plug (part.6) and take-out the diaphragm (part.8).

#### **To re-assemble:**

Proceed in the reverse order.

For a very good operation of the diaphragm on the body's seat, to screwtight the bolts and the nuts at cross.

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