

# galassi & ortolani s.p.a.

valvole speciali per l'industria

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## **Instruction Manual**

### **Butterfly Valve model GS.38-38W**

The butterfly valves, models GS.38 and GS.38W are operated by a double-acting hydropneumatic actuator. Adoption of large-diameter cylinders ensures that the valves can function even where flow pressures are relatively low. To maintain a high level of efficiency we recommend replacing when necessary the coupling, the butterfly, the packing on the hydropneumatic cylinder, the drive pin and the rack.

#### **To replace the coupling and the butterfly :**

1. Remove the bolts, washers, nuts (part.9-10-11) and slide out the hydropneumatic unit.
2. Remove the bolts, washers, nuts (part.12-13-14) and lift-off the top part of the valve body (part.3) from the lower (part.4).
3. With the butterfly disk in the open position, press down the coupling and slide out the butterfly.

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

1. Slide the longer butterfly shaft into the hole in the coupling, press down the coupling and insert the shorter end.
2. Insert the butterfly with the coupling into the valve body seats; bolt and fit in the hydropneumatic unit.

#### **To replace the packing in the hydropneumatic unit:**

1. Remove the bolts and washers (part.17-23) from the cylinder end, loosen the cylinder so that it comes away from the rack (part.18).
2. Remove the pin (part.33).
3. Remove the bolts, washers, nuts (part.28-29-30) and slide out the cap (part.26), piston (part.20) and cylinder (part.19).
4. The small packings (part.25-32) are situated in the cylinder (part.19) and cap (part.26) while the large packings (part.21) are in the piston (part.20).

Before re-assembling make sure that the inside of the cylinder is perfectly clean; during mounting oil everything with silicon oil; for efficient operation use compressed air free of condensation.

#### **To replace the drive pin and rack:**

1. Remove the bolts, nuts, washers (part.9-10-11) and slide out the hydropneumatic unit.
2. Remove the bolts and washers (part.17-23) from both sides, slide off the cap (part.15) and unscrew the hydropneumatic cylinder.
3. Remove the socket-head screw (part.2) and take off the flange (part.27).
4. Take out the drive pin (part.1) and the rack (part.18).
5. Before remounting, grease the drive pin and the rack and then remount them.

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