

# galassi & ortolani s.p.a.

valvole speciali per l'industria

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## **Instruction Manual**

### **Collet valve, Model GS.27**

Sleeve valve, Model GS.27, is normally closed. Valve may be opened both manually and pneumatically. Drive mechanism (buffer-tie rod) is fully closed within valve body. When necessary, replacement of sleeve – gasket set – spring, therefore, is suggested for an excellent valve operation.

#### **Sleeve replacement:**

1. Unscrew and remove bolt, nut and washers (items 27-11-26).
2. Unscrew hexagon socket head (item 30) and remove pneumatic structure.
3. Unscrew screw socket (item 28) and nut (item 4) and remove washer (item 5).
4. Unscrew and remove bolt, nut and washers (items 15-13-14).
5. Unscrew and remove socket head screw and washer (items 29) and replace sleeve.

#### **Gasket set and spring replacement:**

1. Let air in cylinder and screw flywheel beating it to cover bushing (item 25), then remove air.
2. Unscrew and remove bolt, nut and washers (items 27-11-26).
3. Remove hexagon socket head (item 30) and take out pneumatic structure.
4. Remove bronze nut (item 24), bolt, nut and washer (items 18-16-17).
5. Remove cylinder (item 21).
6. By unscrewing flywheel, pneumatic structure (piston item 22 – spring item 20 – cover item 19) will be fully disassembled.
7. Small “w-shaped” gasket (item 10) is in proper seat inside cylinder.  
Large “w-shaped” gasket (item 23) is placed in piston slot (item 22).  
Spring is inside cover (item 19).  
O-ring is inside cylinder (item 2).

When mounting, ensure that cylinder is perfectly cleaned, then oil the whole with silicone oil.

#### **Pneumatic structure mounting**

1. Insert spring (item 20) into cover (item 19).
2. Insert piston with threaded rod (item 22) into cover and screw the whole by flywheel, until piston upper level rests on cover level.
3. Insert structure thus completed into cylinder and screw bolt, nut and washer (items 18-16-17).

4. Screw bronze nut bringing it to original size, then assemble pneumatic structure with valve body.

Instrument air, that is free from condensate, is suggested for a better pneumatic structure operation.

**NB.** All item numbers refer to our technical catalogue.