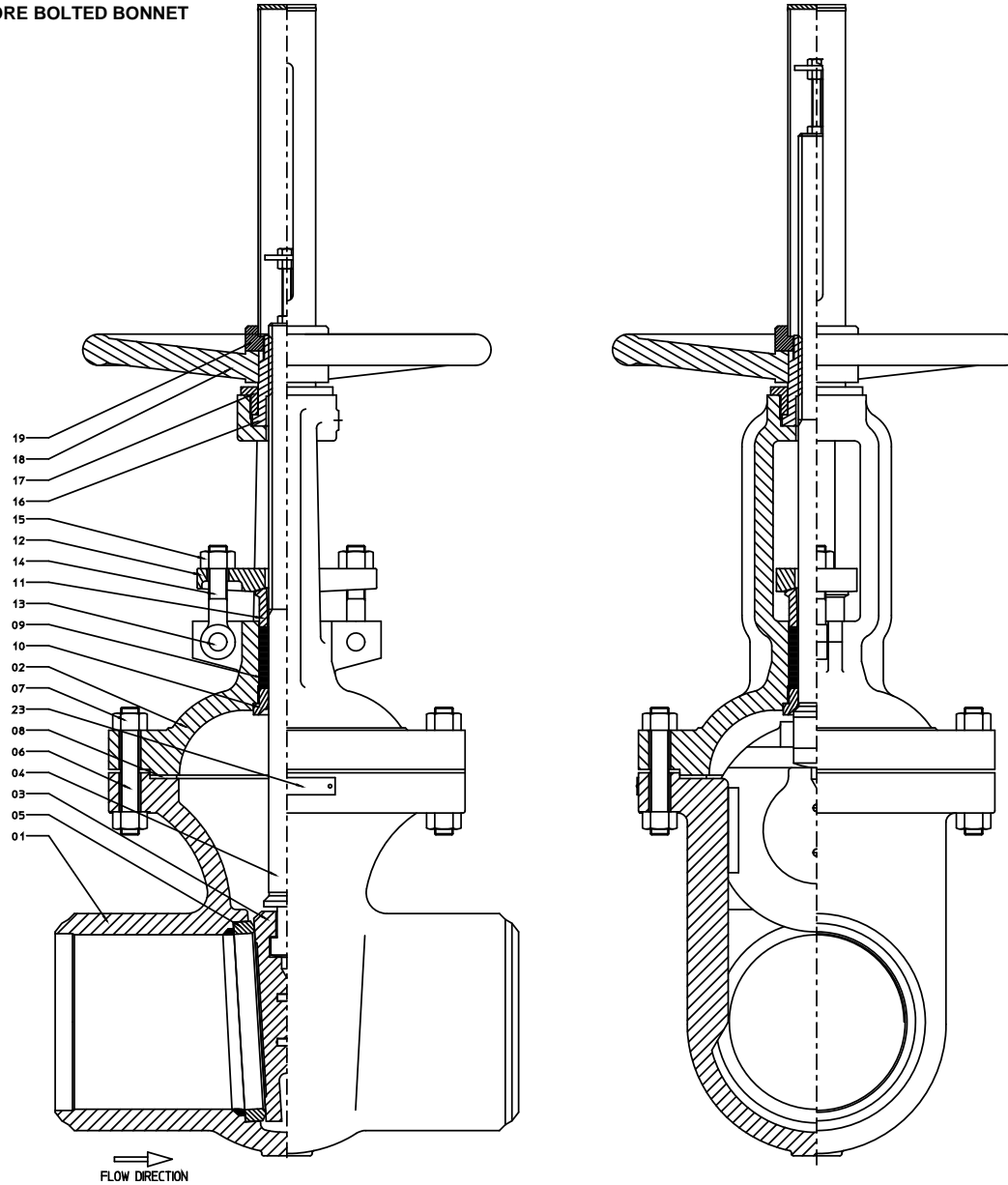


DISASSEMBLY & ASSEMBLY LARGE BORE BOLTED BONNET  
DOUBLE DISC WEDGE GATE VALVE



**DISASSEMBLY & ASSEMBLY LARGE BORE BOLTED BONNET  
DOUBLE DISC WEDGE GATE VALVE**

1. Caution, before any attempt is made to disassemble, verify that the valve is sufficiently cooled down, depressurised, isolated from system pressure and secured against accidental pressurisation.
2. Unscrew the gland bolting (14) by removing the nuts (15).
3. Loosen the handwheel nut (19) and remove the handwheel (18) from the yoke sleeve (16).
4. In case the valve is equipped with a gearbox or actuator, remove it from the valve by loosening the bolting from, below the top flange and rotate the gearbox clockwise to remove it from the stem (04).
5. Unscrew and remove the bonnet bolting (06) by loosening the nuts (07).
6. Remove the bonnet (02) together with the stem (04) and disc(s) (03) from the valve body (01) using a rope or sling to hoist these parts. During removal of the disc(s) (03) make sure these parts do not prematurely detach from the stem (04) since this will cause damage to both the disc(s) (03) and seat(s) (05). The use of chains is prohibited.
7. Disconnect the disc(s) (03) from the stem (04) by sliding them of the T-lock construction.
8. Remove the gland flange (12), gland (11) from the bonnet (02) and slide the stem (04) down out of the stuffing box whilst preventing the backseat (10) from damaging.
9. Remove the packing (09) from the stuffing box.

**INSPECTION PRIOR TO RE-ASSEMBLY**

1. Thoroughly clean all parts with solvent and a clean cloth.
2. Examine the following parts for signs of damage, i.e. pitting, erosion or scratches:
  - A. SEAT(S) (05) – Sealing surface
  - B. DISC(S) (03) – Sealing surface
  - C. STEM (04) – Packing and backseat area
  - D. BACKSEAT (10) – Sealing surface



**IN CASE SEVERE DAMAGE IS OBSERVED,  
USE REPLACEMENT PARTS INSTEAD!**

3. Insert the stem (04) from the bottom through the bonnet (02) whilst preventing the backseat (10) from damaging.
4. Prepare the disc assembly by installing the pins into the provided holes located in the disc(s) and connect the disc(s) (03) to the T-lock located on the stem (04).
5. Place a replacement gasket (08) on top of the valve body (01) and put the bonnet (02) together with the stem (04) and disc(s) (03) in place.

6. Insert the bonnet bolting (06) and tighten the nuts (07) in a star pattern, torque the nuts (07) to specification, applicable torque values are given in our IOM.
7. Insert a new packing (09) in the stuffing box located in the bonnet (02) and place the gland (11) on top of it.
8. Place the gland flange (12) on top of the gland (11) and tighten the gland bolting (14-15).
9. Install the handwheel (18) on the yoke sleeve(16) and place the handwheel nut (19) on top of it.
10. In case the valve is equipped with a gearbox or actuator, rotate it counter clockwise on the stem (04) and install the bolting through the yoke flange.
11. Pressurise the system and inspect the valve visually for signs of leakage after start-up.
12. In case leakage is observed, tighten the bonnet nuts (07) and / or the gland nuts (15) until the leaking stops.
13. The valve is now ready for use.



**Important:**

**After starting up the system, once the valve has reached its working temperature and pressure, it is recommended to tighten the bonnet nuts (07) to provide optimum sealing.**