



® **DPV-UK LTD**
Broadpiece, Mereside, Soham,
Cambridgeshire, CB7 5EL, England, U.K.

Tel : 44 1353 725 540

Fax : 44 1353 722 227

Email: sales@dpv-uk.com

**INSTALLATION, OPERATION & MAINTENANCE MANUAL
FOR
FORGED GATE, GLOBE AND PISTON or SWING CHECK VALVES
BOLTED BONNET or WELDED BONNET EXECUTION**

**Forged Material
Bolted or Welded Bonnets
Outside screw
Rising Stem
Screwed ends, Socket weld ends or butt weld ends**

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1. **Valve Installation**

- 1.1 Forged gate and globe valves can be installed in any position but normally the stem is in vertical position.
Check valves can be installed both in horizontal and vertical (upwards) position.
During assembling operation on the line make sure that wedge/disc is in closed position
- 1.2 Make sure the pipe line is thoroughly cleaned to avoid that foreign material could damages the seating surface of the valve.

To remove the valve from the line:

1. Close the valve completely;
2. During the cutting operation proceed with care in order to prevent possible damage to the seats;
3. After removal from the line, proceed to an accurate cleaning of the ends.

Forged valves do not require excessive care for a good operation.

Following instructions will help to provide for a satisfactory and long service life.

After installation of the valve provide for cleaning the internal parts of the body.

The presence of foreign materials between the seats and the wedge could seriously damage the tightness.



2. **Stem Packing (only for gate and globe valves)**

2.1 During the operation, in case of leakage through the stem packing, tighten the gland packing nuts.

If the leakage does not stop it is useless to over-tighten the gland packing nuts.

It is necessary to replace the stem packing as follows:

1. Open the valve completely on order to realize the tightness of the stem on the backseat;
2. Screw off the gland packing nut;
3. Lift up the gland follower;
4. By means of an iron wire take off the packing;
5. Insert the new stem packing paying care to press it within the gland follower;
6. Screw on the gland packing nuts in their original position.

3. **Swing Check & Piston Check Bonnet Gasket**

3.1 During the operation, in case of leakage between body and bonnet, tighten the union nut.

If the leakage does not stop it is necessary to replace the bonnet gasket as follows:

1. Screw off the union nuts completely and take off the bonnet cover;
2. Lift up the bonnet;
3. Replace the bonnet gasket after having thoroughly cleaned the flange surfaces;
4. Insert the bonnet and tighten the bolting.



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4. Maintenance Instructions

- 4.1 For Forged valves, spare parts are limited to gland packing and bonnet gaskets. If replacement of the gasket and or packing does not solve any leakage then we would suggest replacing the complete valve.