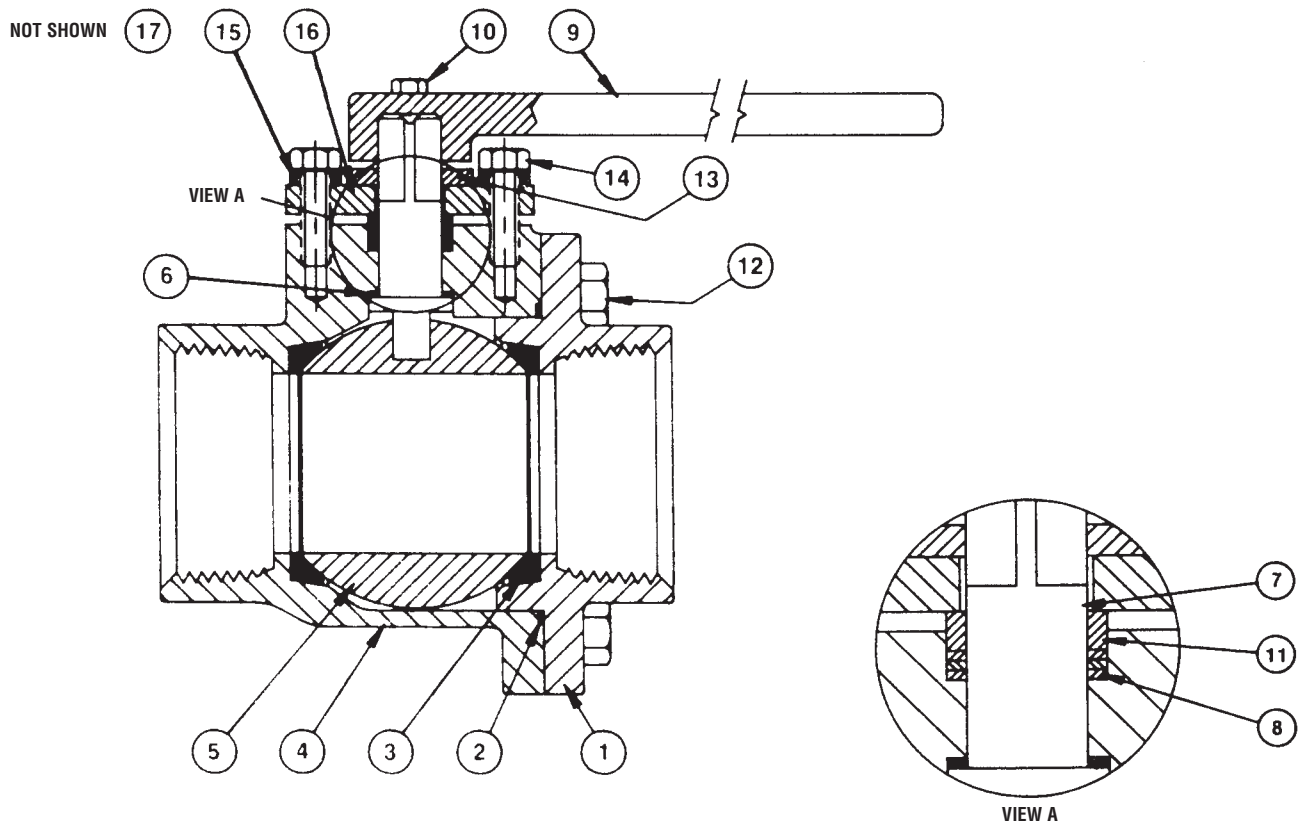


## DI-B800 Threaded End Ball Valve

Model DI-B800: 3"

### Installation, Operation and Maintenance Instructions

FIGURE 1



Part No.	Description
1	Body End
2	Body Seal
3	Seat (2)
4	Body
5	Ball
6	Thrust Washer
7	Stem
8	Stem Packing (3 Rings)

Part No.	Description
9	Handle
10	Handle Bolt
11	Gland
12	Body Bolts (6)
13	Stop Plate
14	Gland Bolts (2)
15	Stop Washer
16	Gland Flange
17	Stop Plate Set Screw

## 1. Installation

- A. Good operating procedure requires periodic observation to ensure that the valve is functioning properly. The frequency of observation will depend on the application.
- B. This valve may be installed in any position, utilizing standard pipe fitting practices. Flow can be in either direction.
- C. Periodically check and tighten body bolts (12) and two gland bolts (14).
- D. If leakage is evident in stem packing area, tighten two gland bolts (14) evenly, a little at a time. If leak persists replacement of stem packing (8) is indicated (See Packing Replacement below).

## 2. Packing Replacement

There must be **no line pressure** on the valve at this time.

- A. Remove lever of tee handle, not shown in Figure 1 (optional equipment).
- B. Loosen "allen" type set screw (17) in stop plate (13) and lift off stop plate.
- C. Completely unscrew both 5/8" gland bolts (14) and remove stop washers (15) and gland flange (16).
- D. Remove stem (7) by following steps 4A through 4D under Seat and Seal Replacement. At this point, push down on stem (7) and remove it from body (4).
- E. Remove thrust washer (6) from stem (7) and remove stem packing (8) and gland (11) from stuffing box.

### Reassembly

- A. Place one thrust washer (6) on stem (7) and insert stem into body (4) and up through the body.
- B. Follow steps A through G of Reassembly procedure under Seat and Seal Replacement.
- C. Three rings of packing (8) are then dropped over the stem (7).
- D. Drop gland (11) over stem (7).

**NOTE:** When stem packing (8) is fully shouldered on stem (7), gland (11) will project approximately 1/8" out of stuffing box.

- E. Gland flange (16) and gland bolts (14) with stop washers (15) are then replaced in that order.
- F. Put stop plate (13) over stem square and tighten set screw (17).
- G. If valve comes equipped with handle, replace.

## 3. Seat and Seal Replacement

There must be no line pressure on the valve at this time.

- A. Unscrew six 1/4" hex head body bolts (12).
- B. Remove body end (1). One seat (3) should come out with body end (1). Remove end seal (2) from body (4).
- C. Rotate stem (7) so ball (5) is in fully closed position and remove ball (5).

**NOTE:** Extreme caution should be taken to avoid damage to the ball surface.

- D. Take out other seat (3).

Flowserve recommends replacement of all soft parts whenever the valve is disassembled for reconditioning (See Section 2, Packing Replacement). The replacement parts can be ordered in kit form.

### Reassembly

- A. Place one seat (3) in body.

**NOTE:** Seats are to be installed with concave surface positioned against the ball.

- B. Turn the stem (7) to a position with the lower stem tang flats parallel to the ball cavity of the body.
- C. Install the ball (5).

**NOTE:** Ball should be carefully examined for nicks, scratches, pitting or corrosion and replaced as necessary.

- D. Put body seal (2) into shouldered counterbore in valve body (4).
- E. Place other seat (3) into body end (1) seat cavity (See NOTE under Reassembly, Section 2A).
- F. Put body end (1) back into body (4) and line up bolt holes.

**NOTE:** Be careful not to damage body seal (2) when putting body end (1) into body (4).

- G. Evenly torque six body bolts (12) back into place.

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