

MARPAC[®] By McCANNA

DI-B800 THREADED END BALL VALVE

MODEL DI-B800: 3"

INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

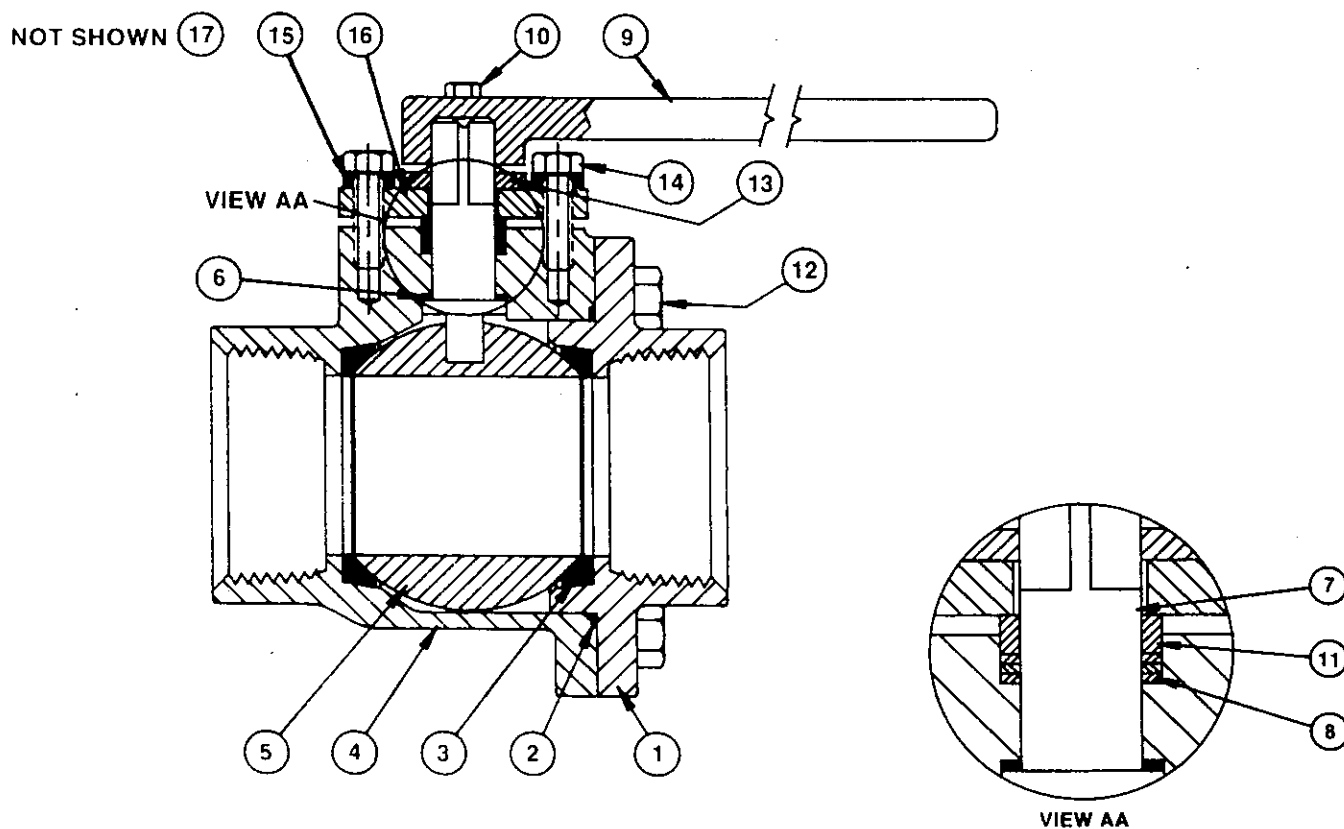


FIGURE 1

No.	Description	No.	Description
1	Body End	10	Handle Bolt
2	Body Seal	11	Gland
3.	Seat (2)	12	Body Bolts (6)
4	Body	13	Stop Plate
5	Ball	14	Gland Bolts (2)
6	Thrust Washer	15	Stop Washer
7	Stem	16	Gland Flange
8	Stem Packing (3 Rings)	17	Stop Plate Set Screw
9	Handle		

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).

McCANNA recommends replacement of all soft parts whenever the valve is disassembled for re-conditioning (See Section 2 for 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, A above).

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.

NOTICE

McCANNA Valves are designed and manufactured using good workmanship and materials, and they meet all applicable industry standards. McCANNA, Inc. is anxious to avoid injuries and property damage which could result from misapplication of the product. Proper valve selection is imperative. Examples of the misapplications or misuse of a valve include but are not limited to use in a service in which the pressure/temperature rating is exceeded or in a chemical service incompatible with the valve materials; use of undersized valve actuators; use of extremely fast valve actuation and/or continuous valve cycling on standard valves; making modifications of the product of any kind; failure to use caution in operating valves in high temperature, high pressure, or highly hazardous services; and the failure to maintain valves as recommended. The right is reserved to change or modify product design or construction without prior notice and without incurring any obligation to make such changes and modification on products previously or subsequently sold.

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