

### Kit Contents

- 2 seats
- 2 flange seals
- Thrust washer
- 2 stem packing rings
- 4 body bolts
- 4 body nuts
- 4 body washers

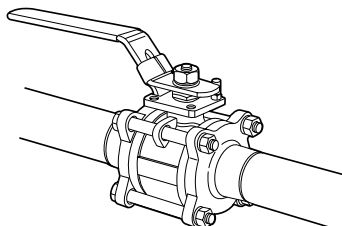
### Safety Instructions

- ⚠ Before servicing any installed valve you must:**
- depressurize system
  - cycle valve
  - purge the valve

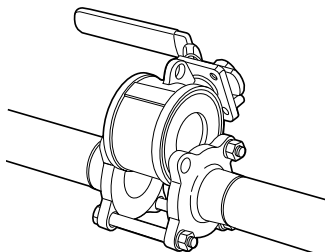
**NOTE:** Refer to the cutaway drawing while following the maintenance instructions.

### Stem Packing Seat and Seal Replacement

1. Cycle the valve and note the effort required to open and close (see step 12).



2. Make sure that the ball is in the open position and loosen the stem nut and the four body bolts. Remove one of the top body bolts and swing out the center section. Remove the seats and flange seals.

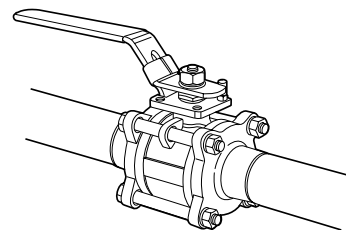


3. Rotate the handle to the closed position. Remove the stem nut, stem washer, handle, and packing bolt.
4. Slide the ball out of the center section and remove the stem and thrust washer. Remove the thrust washer from the stem.
5. Remove the stem packing with a sharp tool or packing removal tool.
6. Examine the machined surfaces of the stem and packing chamber. Remove any residue or burrs with an emery cloth or hand file. Clean the stem with an appropriate solvent. Install the new thrust washer onto the stem.
7. Install the stem and ball. Rotate the ball to the open position.

8. Install two new stem packing rings individually, compressing each ring by hand-tightening the packing bolt.
9. Install the new seats, aligning the notch with the stem.
10. Install the flange seals.
11. Rotate the center section back into position. Align the center section with the flange sections. Install the bolts, washers, and nuts.

Note: Replacement of body bolts, washers, and nuts is optional. New body bolts, washers, and nuts are provided for your convenience.

12. Tighten the four body bolts in a cross pattern sequence. Increase torque gradually until reaching the torque value in the bolts torque table.
13. Place the handle over the stem and cycle the valve and compare the effort required to that noted in Step 1. Adjust the packing bolt until original tightness is achieved.
14. Install the stem washer and stem nut. Tighten the stem nut.
15. Test the valve for proper function and operation.
16. After several hours of operation, inspect the packing area to ensure that valve is leak-tight. Should leakage occur, tighten the packing bolt as required.



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## Bolts Torque

