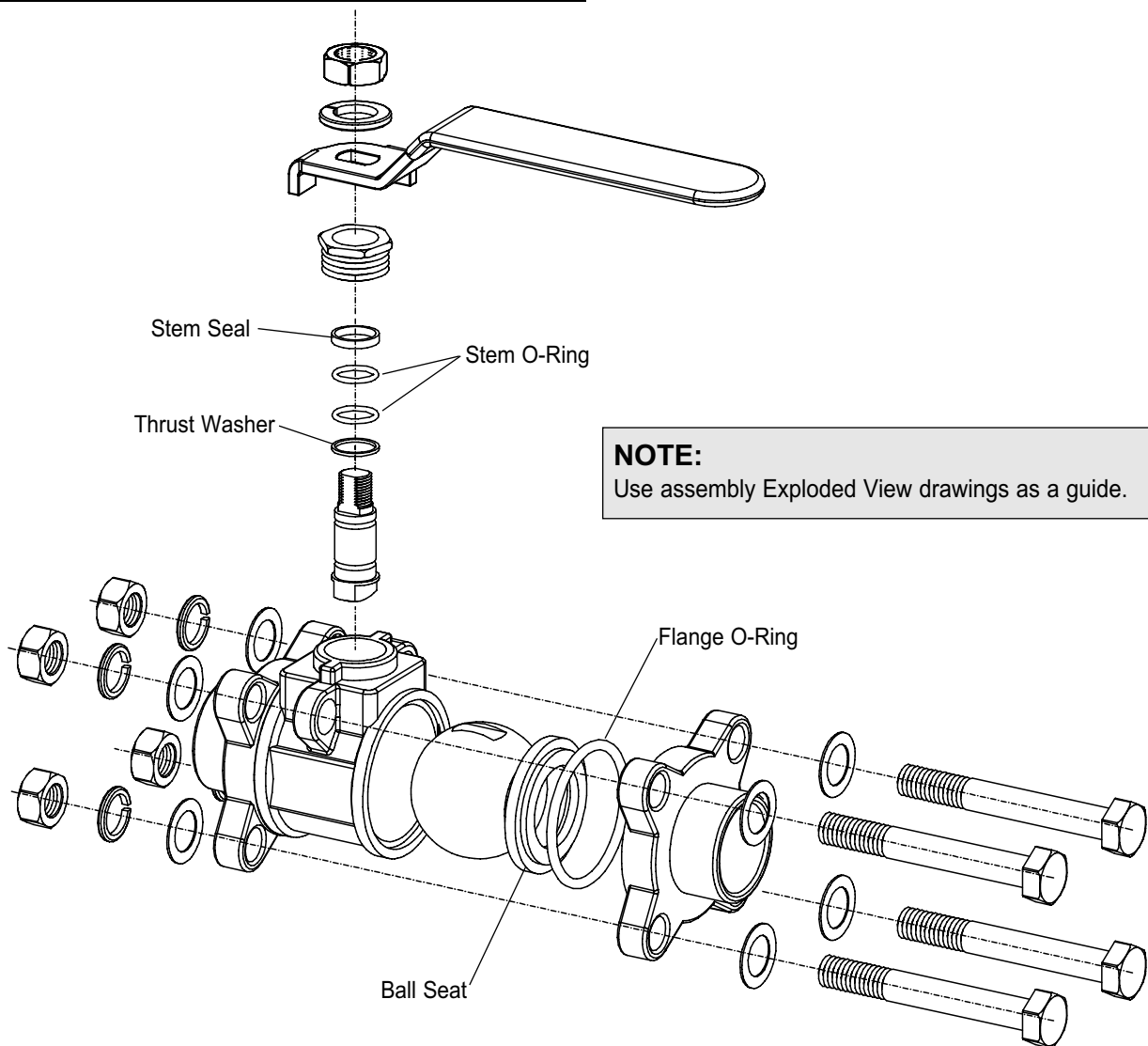
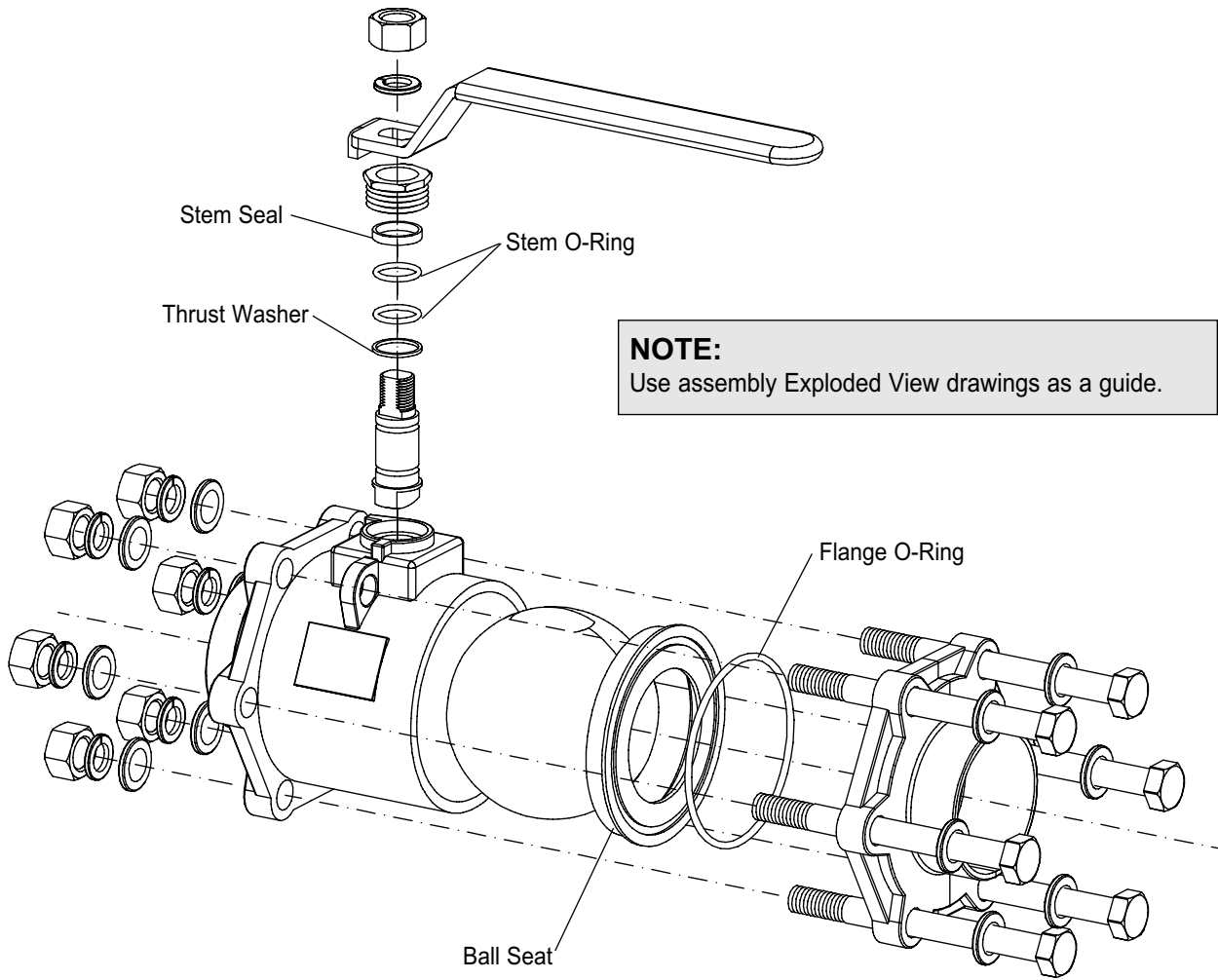


<input type="checkbox"/> 1/2" Valve	Part Number: 6-290571-00
<input type="checkbox"/> 3/4" Valve	Part Number: 6-290572-00
<input type="checkbox"/> 1" Valve	Part Number: 6-290573-00
<input type="checkbox"/> 1-1/4" Valve	Part Number: 6-290574-00
<input type="checkbox"/> 1-1/2" Valve	Part Number: 6-290575-00
<input type="checkbox"/> 2" Valve	Part Number: 6-290576-00
<input type="checkbox"/> 2-1/2" Valve	Part Number: 6-290577-00
<input type="checkbox"/> 3" Valve	Part Number: 6-290578-00
<input type="checkbox"/> 4" Valve	Part Number: 6-290579-00

1/2" Through 2" Valve Configuration



2-1/2", 3" and 4" Valve Configuration



NOTE:
Use assembly Exploded View drawings as a guide.

Definition of Statements

Statements in these instructions preceded by the following words are of special significance.

⚠ WARNING: Means there is a possibility of injury or death to yourself or others.

⚠ CAUTION: Means there is a possibility of damage to unit or other property.

NOTE: Indicates points of particular interest for more efficient and convenient operation.

Installation

⚠ CAUTION:

Replacement of valve seals requires all tools, valve components including work area, be free of oil, grease, and other contaminants during disassembly, assembly, and installation of valve seals. Person performing seal replacement should be careful to wear clean plastic gloves and not to rub hands on clothing that may be contaminated with oil, grease, etc.

⚠ CAUTION:

Take care not to damage any seating surfaces of valve body or flanges when removing valve body.

NOTE:

Use assembly Exploded View drawings as a guide.

⚠ WARNING:

Shut off gas service and provide positive locking service in pipe line in which valve is located.

Step 1: Initial Preparation

- Vent residual gas from this pipe line.

Step 2: Removal of Center Section

- Turn valve handle to open position.

For 1/2" through 2" Valves

- Remove nearest bolt on upper half of valve body and loosen remaining three.

For 2-1/2" through 4" Valves

- Remove two nearest bolts on upper half of valve body and loosen remaining four.
- Carefully remove valve body section from between end flanges.

Step 3: Removal of Ball, Ball Seats and Body Seals

- Turn valve handle to 45° OFF position.
- Remove o-ring seals from valve body.
- Remove Teflon® ball seats by placing finger into ball hole behind Teflon® seal and remove seal. Turn valve handle to complete off position.
- Push ball out of valve body.

NOTE:

If replacing ball seats and valve flange o-ring seals only, proceed to step 7.

Step 4: Removal of Valve Stem and Stem Seal

- Remove stem nut and lift lock washer off valve handle.
- Remove stem gland nut from valve body.

NOTE:

Valve stem may require additional pressure to remove it from valve body, use care when applying this additional pressure.

- Remove valve stem by pushing it down into valve body.
- Remove valve stem seal from valve body.

NOTE:

This may require cutting through seal, then prying seal toward bore center.

⚠ CAUTION:

Take care not to damage internal threads or seating surfaces of valve body while removing stem seal.

- Discard stem seal.

Step 5: Replacing Stem Seal

⚠ CAUTION:

Make certain all valve components are free of oil, grease and other contaminants prior to reassembly.

- Place new valve stem seal from repair kit into top of valve body.

Step 6: Replacing Stem O-rings and Teflon® Thrust Washer

- Remove two o-rings from valve stem.
- Remove stem thrust Teflon® washer from valve stem.
- Discard old seals.
- First replace Teflon® stem thrust washer.
- Replace two stem o-ring seals.
- Insert valve stem up through center of valve body.
- Place gland nut over valve stem, thread it into top of valve body and tighten securely.
- Place valve handle onto stem in proper orientation and secure it in place with stem lock washer and nut.

Installation

Step 7: Replacing Ball Seats and Flange O-rings

⚠ CAUTION:

Make certain all valve components are free of oil, grease and other contaminants prior to reassembly.

- Turn valve handle to OFF position.
- Place ball into valve body with slots in top of ball keyed to flat surface on bottom of valve stem and slide ball into center of body.
- Place one new Teflon® ball seat from repair kit into one end of valve body with curved surface of ball seat facing into valve body.
- Place remaining new Teflon® ball seat from repair kit into valve body with curved surface of ball seat against ball.
- Place one new flange o-ring seal in the groove space between the ball Teflon® seal and inside diameter of valve body.
- Place remaining new flange O-ring seal in other side of valve body.

Step 8: Replacing Valve Body Between Existing Flanges

⚠ CAUTION:

Make certain end flanges are free of oil, grease and other contaminants prior to reassembly.

- Turn valve handle to OPEN position, place valve body with new seals in place between end flanges in same orientation as noted prior to disassembly.
- Reinstall valve body bolt(s) removed during disassembly and hand tighten all bolts and hex nuts.
- Before applying torque to the flange bolts, turn valve to CLOSED position.
- Using a crossing pattern, torque hex nuts in 1/4 turn increments to indicated torque requirements:

Valve size (inches)	Torque (inch-lbs)
1/2	61
3/4 and 1	104
1-1/4	217
1-1/2	260
2, 2-1/2, 3 and 4	390

Step 9: Testing

⚠ CAUTION:

Prior to turning on gas service to repaired valve, make sure someone is able to shut-off gas service to valve, if for some reason the replaced valve body was not installed properly and is leaking to atmosphere.

- Turn valve handle to OPEN position.
- Turn on gas service to valve and test for leaks per applicable code (for example, NFPA 99).

