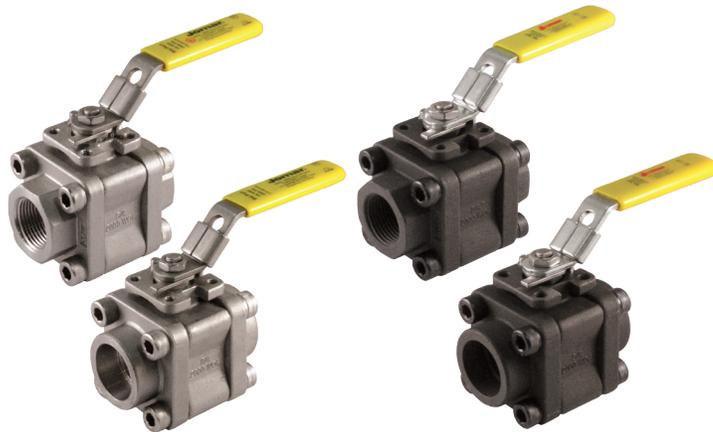
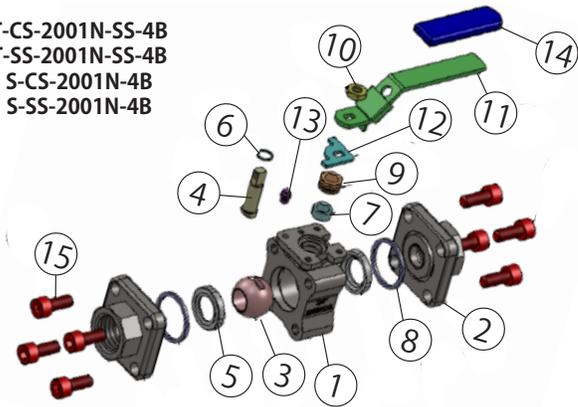


3 Piece 4 Bolt • Threaded & Socket Weld Connections



T-CS-2001N-SS-4B
 T-SS-2001N-SS-4B
 S-CS-2001N-4B
 S-SS-2001N-4B



Installation:

Threaded Valves:

1. The valve may be installed for flow in either direction. Use standard piping practices when installing valves with threaded parts. When tightening the valve to the pipe, apply the wrench to the end cap nearest the pipe being worked. Adjust packing prior to installation.
2. When installing the above valves, be sure that the threads on the mating pipe are free from excessive grit, dirt, or burrs.
3. Take care to assure that any pipe sealants used are not so excessively applied to the pipe threads that the valve seats, ball and/or cavity becomes fouled.

Socket-Weld Valves:

Only a qualified installer should weld, as outlined in Section IX of the ASME Boiler Constriction Code. For stainless steel valves, use E316L welding rod.

1. Turn the valve to the full open position.
2. Remove the handle or actuator.
3. Weld by applying a 1/8" weld 360° around each end cap.

CAUTION: DO NOT heat the center section above 350°. Use a temperature stick and a wet cloth wrapped around the center section to prevent overheating.

4. After sufficient cooling of the valve, install the handle or actuator.

Operation:

1. The valves shall be used in temperature ranges from 14°F-320°F and shall not be used in an environment outside this range.
2. The valve's pressure ratings is cast on the valve body; user shall make sure the fluid pressure does not exceed the valve's rated pressure.
3. Any inappropriate operation may cause leakage or other problems, in case of emergency, you must release the fluid inside the pipeline and then follow procedures.
4. Operating torques shall not exceed the data shown on Torque Table. Over-torquing can bend the stem, causing operational failure.

Material Specifications

No.	Part
1	Body
2	Body Cap (2)
3	Ball
4	Stem
5	Seat (2)
6	Stem Seal
7	Stem Packing
8	Union Seal (2)
9	Gland
10	Handle Nut
11	Handle
12	Stopper Plate
13	Lock Pin
14	Plastic
15	Cap Bolt (8)

Maintenance:

Periodically observe the valve to be sure of proper performance. More frequent observation is recommended under extreme operating conditions. Routine maintenance consists of tightening the stem nut 1/4 turn periodically to compensate for the wear caused by the stem's turning against the resilient stem packing seal.

Disassembly:

NOTE: If complete disassembly becomes necessary, replacement of all seats and seals is recommended.

1. Unscrew the cap bolt and body cap.
2. Take out the seat, ball, and union seal.
3. Remove the handle nut, handle, and stopper plate. Then, press the stem from the top into the valve body and remove it through the body.
4. Remove the stem packing from the body.
5. Remove the stem seal.

Assembly:

The following instructions are for in-line assembly. For bench assembly, it may be more convenient.

1. Air-blast the valve body. Insert the stem seal into the stem. Then insert the stem into the stem bore and up out the top of the valve.
2. Place a wrench through the body on the bottom of the stem blade to hold the stem stationary. Then, install the stem packing and gland into the stem and tighten the gland until snug.
3. Align the stem blade inside the valve body with the ball. Insert the ball and rotate the stem to the fully closed position.
4. Working at either end of the valve body, place a seat into the valve body. Push the seat snugly against the closed ball.
5. Place a union seal into the machined sealing groove of the body. Be certain the groove and seal are clean.
6. Repeat step 4 and 5 for assembly of the opposite end of the valve.
7. Turn the stem to the fully open position.
8. Swing the entire body assembly back into the properly aligned and interlocked position between the body caps, being careful not to scratch the union seals. The body caps may have to be spread slightly to accept the valve body.
9. Close the valve.
10. Bolt the valve together with cap bolts. Tighten the bolts evenly, alternating between them to the torque listed in the Torque Table.
11. Turn the ball one revolution at least once.
12. Install lock pin, stopper plate, and handle over the stem. Insert the handle nut into the stem. Tighten the handle nut until snug.
13. Cycle the valve slowly twice to ensure permanent position of the ball between the two seats.

Torque

Size	Cap Nut Torque	Maximum Operating Torque
1/2"	221	105
3/4"		185
1"	398	225
1-1/4"	708	260
1-1/2"		400
2"		550

Warning: A yellow triangle with a black exclamation mark inside, indicating a warning.

For your safety, it is important that the following precautions be taken prior to removal of the valve from the line or before any disassembly.

1. Wear any protective clothing or equipment normally required when working with the fluid involved.
2. De-pressurize the line and cycle the valve as follows:
 - A. Place the valve in the open position and drain the line
 - B. Cycle the valve to relieve residual pressure in the body cavity before removing the valve from the line.
 - C. After removal and before any disassembly, cycle the valve again several times.
3. This valve is not to be used for unstable gases, H_2SO_4 , HF, HCl, and other dangerous fluids. If you have questions regarding the used fluid, please contact Jomar Valve at csr@jomar.com or (586) 268-1220.