

Keckley Ball Valves

Installation, Operating, and Maintenance Instructions

2-Piece Socket Weld & Butt Weld Seal-Welded Ball Valves (with PEEK Seats ONLY): (BVSC, BVS3, BVS6)

I. Initial Inspection

- A. Remove valve from packaging; remove thread protectors and discard, if so equipped.
- B. Inspect pipe threads for any damage caused in shipment or handling.
- C. Confirm Valve Size is correct for installation.

II. Installation

- A. NOTE: Extreme care must be used to insure seats and seals are not damaged!!.
- B. Inspect piping to be welded to valve for correct preparation and any damage.
- C. Place handle in FULL OPEN POSITION.
- D. Wrap a rag that has been soaked with WATER around center of valve body and secure. Do not wet weld ends.
- E. Insert piping into one socket weld end (or align pipe to butt weld end) and “tack” weld in two spots.
- F. Wait one minute, then insert piping into opposite weld end and “tack” weld in two spots.
- G. Before welding, confirm valve location, orientation, and clearance is acceptable.
- H. Weld Pipe to one end of valve using appropriate wire/filler materials as quickly as possible.
- I. Allow assembly to cool for at least 5 minutes.
- J. Confirm rag is still wet - if not, re-soak rag and re-secure to center of valve body.
- K. Repeat item H for opposite side.

III. Operation

- A. After Installation, confirm handle has adequate clearance by rotating 90 degrees from open to closed position and back to open.
- B. All Keckley ball valves are designed for on-off operation only. DO NOT attempt to “throttle” with Keckley ball valves, unless they are specifically designed for and tagged “FOR THROTTLING SERVICE”.
- C. If application is in STEAM PIPING, be cautious when operating valve-handle will be HOT!



IV. Initial Pressurization of System

- A. Upon initial pressurization of piping system, check all connections for leaks and correct if required.
- B. Once system reaches “Steady State” conditions of operating pressure and operating temperature, it will be necessary to make initial stem packing adjustment. Tighten Part #9, “Stem Packing Gland” to 0 in-lbs on 1/4”-1/2” sizes, 110 in-lbs on 3/4”-1” sizes, and 130 in-lbs on 1 1/4”-2” sizes.

V. Maintenance

- A. Keckley Ball Valves require no maintenance other than periodic stem packing adjustment in applications where many cycles of on-off operation occur on a weekly basis.
- B. In high-cycle applications, check stem packing area regularly to confirm there is no leakage from stem packing. If leakage occurs, follow step #IV-B to correct.

VI. Repair and reconditioning

- A. None of the Keckley Ball Valves listed are field repairable or shop rebuild-able.