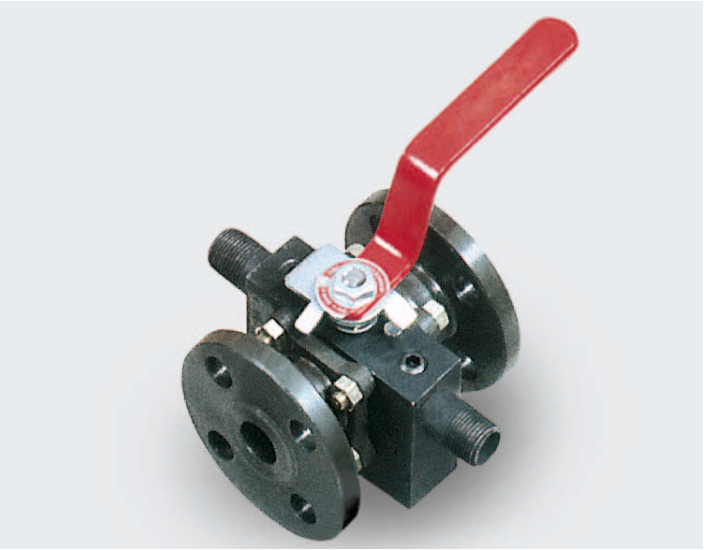
## Jacketed Ball Valves



Jacketed ball valves designed to handle highly viscous materials or materials that solidify at ambient temperatures, are available from VALBOL for use with steam or other heat transfer media. These valves ensure free flow through the valve and prevent clogging when the valve is closed.
Series K44 valves offer all the advantages of VALBOL Series 44 three-piece and Series K51 Series the advantages of 51/52 flanged valves:

- Downstream seat sealing.
- Low operational torque.
- Bottom entry.
- Blowout-proof stem.
- Multiple stem seal rings in a deep packing box assure zero leakage.

## AVAILABLE TYPES

### K44, Three-piece Jacketed Ball Valves

VALBOL Series K44 ball valves provide the best performance for the least installed cost in the 1/2” – 2.1/2” size range. Three-piece construction also means that the valve functions as both valve and union. This is a valuable feature in welded piping systems where line breaks are required.

### K51, One-piece Flanged Jacketed Ball Valves

VALBOL K51 ball valves are the full type jacket. Integral to the valve, this jacket extends from one flange to the other, with oversize flanges (generally one size larger than the valve size), and with a face-to-face dimension corresponding to the basic valve. A 3” (DN 80) valve assembly, for example, has 4” (DN 100) flanges to allow enough bolting clearance outside the jacket while maintaining the face-to-face dimension of the standard 3” (DN 80) valve.Both types of jackets are rated for heat transfer media pressures up to 150 psi (10.3 bar).

## Easily Automated for On/Off or Modulating Control

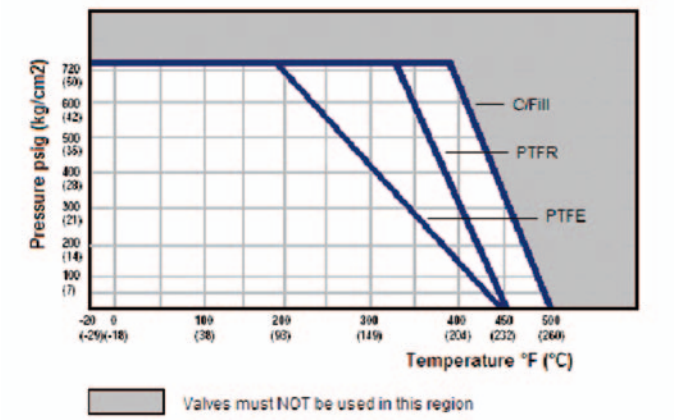
The lightweight, compact design of the Series K44 & K51 valves combined with VALBOL own Series 39 pneumatic actuators creates a control package that’s small yet efficient. WORCESTER actuators are engineered to match the performance of the valve for optimum power and safety. A wide range of options is available to complement your pneumatic or electric package, from computer compatible controls to limit switches. For ON/OFF or throttling applications, when used with a positioner, the actuated K Series valve is a dependable, precise unit. Because VALBOL supplies all the elements of your control packages, we are your single source if you ever need replacement parts or service.

## Reduced Installation and Maintenance Costs

- Quarter-turn for ease of operation.
- Wrench indicates direction of flow.
- Unique stem seal compensates for wear and temperature fluctuations.
- Resilient seats give bubble tight sealing.
- Seat design gives low torque and reduced seat wear.
- Available with variety of pipe ends: Flanged, screwed, socket weld or butt weld.
- Easily adaptable to either pneumatic or electric actuators for field mounting.
- Compact, safe, bottom entry adjustable stem.
- Cannot be removed when valve is under pressure.
- Smooth two-way flow path for maximum Cv.
- Separate body seals prevent atmospheric leakage.

## Cv Data & Pressure/Temperature Ratings Seat & Seal Materials

| Valve Size | Cv (USGPM) |
|---|---|
| 2.1/2” | 130 |
| 3” | 400 |
| 4” | 720 |
| 6” | 1020 |




## Specifications

**Sizes:** 1/2”, 3/4”, 1”, 1.1/4”, 1.1/2”, 2”.
**Style:** K44 three-piece.
**Sizes:** 2.1/2”, 3”, 4”, 6”.
**Style:** K51 one - piece.
**Rating:** ANSI Class 150.
**Ends:** Flanged Screwed, Socket Weld, Butt Weld.
**Body:** Carbon Steel, Type 316 Stainless Steel.
**Ball & Stem:** Type 316 Stainless Steel.
**Seats:** PTFE, RTFE (Reinforced Teflon), C/Fill, UHMWPE.
**Body Seals:** PTFE, coated Stainless Steel
“S” gasket or UHMWPE

**Max. Pressure:** 720 psi.
**Max. Temp:** 450°F for PTFE and Reinforced RTFE seats & 500°F for C/Fill seats.
**Leakage Rate:** Bubble tight.
**Service*:** Manual On/off, Automated On/off, Throttling Control.
**Flow:** Bi-Directional.

## Standards:

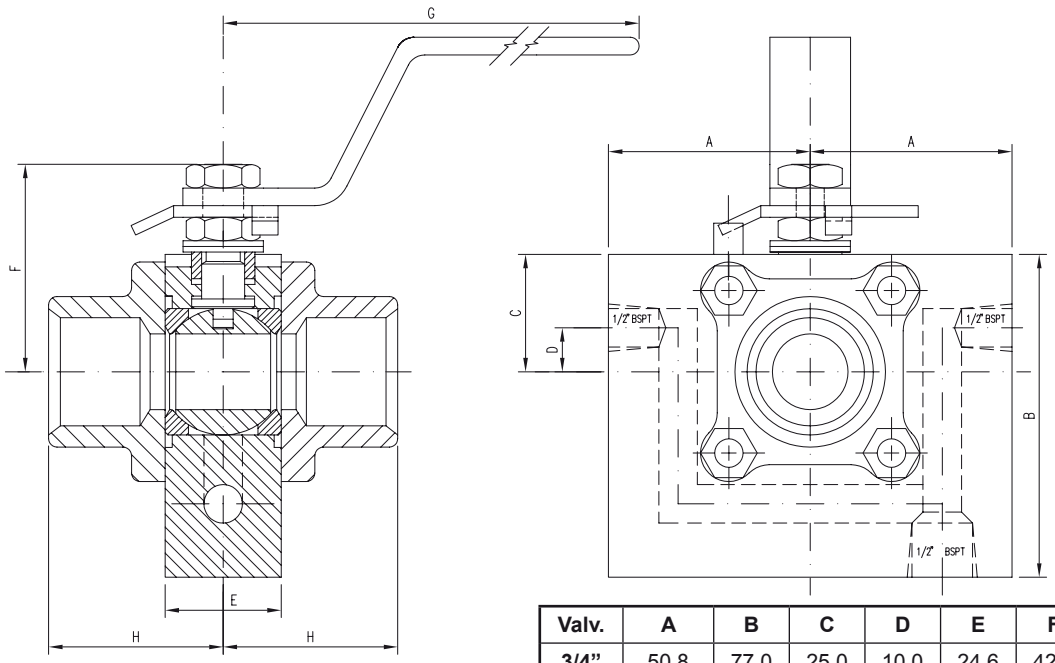
Screwed valves meet ANSI B2.1
SW valves meet ANSI B16.11
BW valves meet ANSI B16.25

## Materials and Construction

**Body:** Carbon Steel*, 316 Stainless Steel
**Pipe End:** Brass, 316 Stainless Steel, Carbon Steel*
**Ball:** 316 Stainless Steel
**Seat:** PTFE, RTFE (Glass Filled), C/fill.umbe Part Qty Material
**Stem:** 316 Stainless Steel
**Body Seal:** PTFE, TFE coated 316 S.S..
**Stem Seal:** RTFE (Glass Filled)
**Centering Washer:** 316 Stainless Steel
**Follower:** Stainless Steel

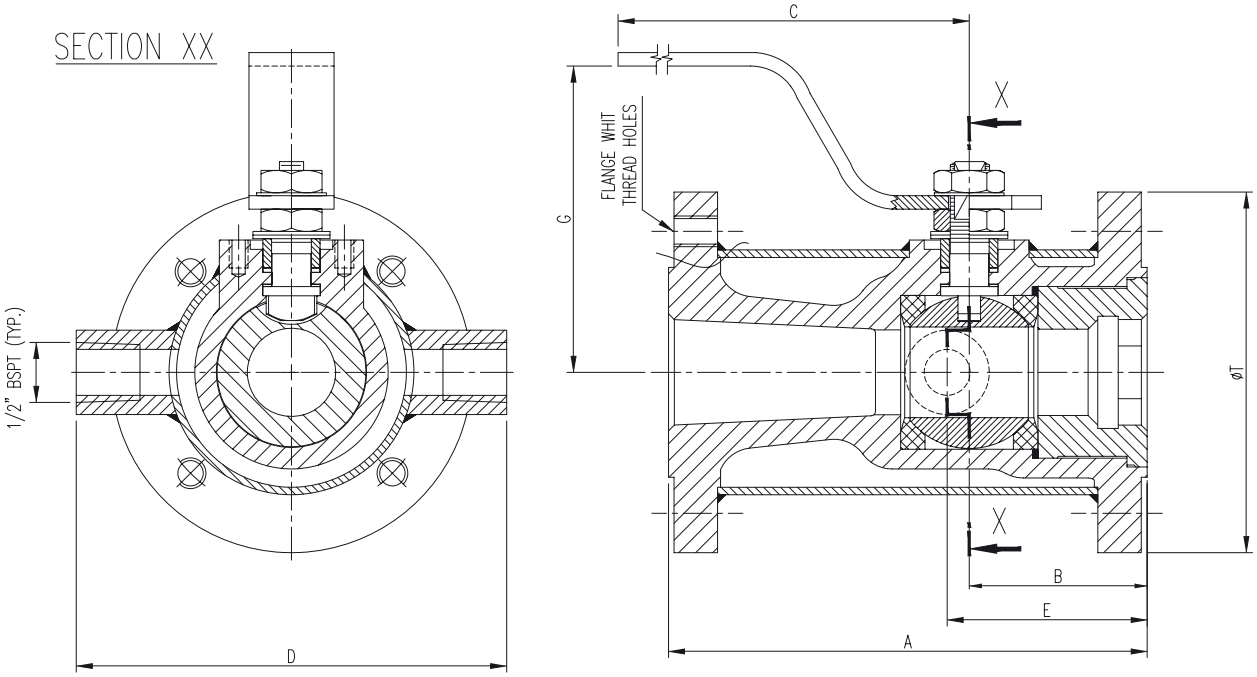
**Stop Plate:** Carbon Steel / Coated
**Retaining Nut:** Carbon Steel/Zinc Plated or Stainless Steel
**Seat Retainer:** Carbon Steel, 316 Stainless Steel.
Wrench Bolt, Wrench Nut, Stop Screw, Body Bolt, Body Nut.

## Dimensions K44




| Valv. | A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|---|
| 3/4" | 50.8 | 77.0 | 25.0 | 10.0 | 24.6 | 42.9 | 108.0 | 35.4 |
| 1" | 56.0 | 88.0 | 32.0 | 12.0 | 31.6 | 55.6 | 146.0 | 47.3 |
| 1 1/4" | 60.0 | 95.0 | 35.0 | 19.0 | 41.2 | 60.7 | 146.0 | 53.6 |
| 1 1/2" | 63.0 | 106.0 | 43.0 | 22.0 | 48.3 | 73.4 | 117.8 | 57.5 |
| 2" | 68.0 | 115.0 | 47.0 | 25.0 | 56.2 | 78.1 | 117.8 | 63.2 |
| 2 1/2" | 82.0 | 140.0 | 62.0 | 40.0 | 72.7 | 104.0 | 260.0 | 74.3 |

## Dimensions K51




| Valv. | A | B | C | D | E | G | T |
|---|---|---|---|---|---|---|---|
| 1" | 127.0 | 57.1 | 165.1 | 120.0 | 63.5 | 89.0 | 108.0 |
| 1 1/2" | 165.1 | 62.7 | 190.5 | 152.0 | 82.6 | 111.3 | 127.0 |
| 2" | 177.8 | 68.2 | 190.5 | 160.0 | 88.9 | 116.0 | 152.4 |

**Válvulas Worcester de Argentina S.A. | Valbol**
Osvaldo Cruz 3333 (C1293ADL) C.A.B.A. - Argentina | **Tel.**: (5411) 5533-5200 / **Fax.**: (5411) 5533-5290 / **E-mail**: mail@valbol.com.ar / **www.valbol.com.ar**