

**BRAY RECOMMENDED SPECIFICATIONS**

## Series 31U Resilient Seated Valve

**Valve Type:****Bray Series 31U lug or approved equal.****Body:**

- Shall be one-piece lug design with extended neck to allow for 2" of piping insulation.
- Flange hole drilling per international flange standard as specified.
- A non-corrosive bushing and a self-adjusting stem seal shall be provided. No field adjustment shall be necessary to maintain optimum field performance.

**Disc:**

- Disc edge and hub on metal discs shall be spherically machined and hand polished for minimum torque and maximum sealing capability.

**Stem:**

- Shall be high strength two-piece design
- Disc to stem connection shall be an internal double "D" design with no possible leak paths in the disc-to-stem connection. External disc-to-stem connections such as disc screws or pins are not allowed.
- Stem shall be mechanically retained in the body neck and no part of the stem shall be exposed to the line media.

**Seat:**

- Shall be tongue-and-groove seat with a primary hub seal and a molded flange O-ring suitable for weld-neck and slip-on flanges.
- The seat shall totally encapsulate the body isolating it from the line media and no flange gaskets shall be required.

**Testing:**

- Valve shall be tested to 110% of the rated pressure.

**Pressure Ratings:**

Valve shall be rated for bubble-tight shut-off at pressure rating shown below.

**Bi-directional and Dead-End Service:****All Resilient Seated Series 31U Valves:**

- 2"-12" (50mm-300mm) 285 psi (20.0 Bar)