

RECOMMENDED SPECIFICATIONS FOR BRAY SERIES 31U VALVES



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.
- Material shall be polyester coated ductile iron, Carbon Steel or uncoated Nickel Aluminum Bronze
- 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 a high strength, two-piece design.
- Disc to stem connection shall be and internal double "D" design with no possible leak paths in disc-to-stem connection. External disc-to-stem connections such as disc screws or pins are not allowed.
- Stem shall be mechanically retained in body neck and no part of the stem shall be exposed to line media.

Seat:

- Shall be tongue-and-groove bonded seat with a primary hub seal and a molded 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.

Pressure Ratings:

- Valve shall be rated for bi-directional tight shut-off at full pressure rating.
- Valve shall be tested to 110% of the full pressure rating.
- **Bi-directional and Dead-End Service:**

All Series 31U Valves:

2'-20" (50mm-500mm)
285 psi (20 Bar)