

RECOMMENDED SPECIFICATIONS FOR BRAY SERIES 35/36 VALVES



Valve Type:

- **Bray Series 35 or Series 36 double flanged or approved equal.**

Body:

- Shall be one piece double flanged design
- Material shall be polyester coated cast iron
- Flange hole drilling per international flange standard as specified.
- Provided with upper and lower bronze stem bearings to absorb actuator side thrust and minimize friction torque.
- Equipped with an externally adjustable stem packing system that allows packing adjustment without removing the actuator.

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 one-piece design.
- Disc to stem connection shall be an internal connection 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.
- Shall be provided with a blow-out proof stem retention system to assure full retention of the stem in the unlikely event of an internal stem failure.

Seat:

- Shall be tongue-and-groove 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**

- **(With downstream flanges and disc in closed position):**

- **All Series 35 Valves:**

- 22"-120" (550mm-3000mm)
75 psi (5.2 Bar)

- **All Series 36 Valves:**

- 22"-120" (550mm-3000mm)
150 psi (10.3 Bar)

- **Dead-End Service**

- **(No downstream flanges and disc in closed position):**

- **All Series 35 Valves:**

- 22"-120" (550mm-3000mm)
30 psi (2.1 Bar)

- **All Series 36 Valves:**

- 22"-120" (550mm-3000mm)
50 psi (3.4 Bar)