

**BRAY RECOMMENDED SPECIFICATIONS****Series 22/23 Resilient Seated Valve****The Valve shall be Bray Series 22 Wafer or Series 23 Lug or approved equal.**

The valve body shall be two-piece wafer or lug design with extended neck to allow for 2" of piping insulation and have flange hole drilling per international flange standards and be provided with a non-corrosive bushing and self-adjusting stem seal. Flange locating holes shall be provided on wafer bodies to allow for quick and precise alignment during valve installation. PTFE impregnated steel bearing shall be provided in the upper and lower valve journal for precision alignment of the upper and lower stem. Body bolts shall be 316 stainless steel and reinforced PTFE gaskets shall be placed between the body halves.

The valve disc edge and hub on metal discs shall be spherically machined and hand polished for minimum torque and maximum sealing capability. PTFE discs shall have a 1/8" (3mm) minimum thickness of pure, virgin PTFE encapsulated over 316 stainless steel on sizes 2"-12" (25mm-300mm) and 17-4PH stainless steel on sizes 14"-24" (350mm-600mm). The 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 screws or pins are not allowed. The valve stem shall be one-piece design and be mechanically retained in the body neck and no part of the stem shall be exposed to the line media

The valve seat shall be designed to reduce seating/unseating torque and shall include a resilient seat energizer extending completely around the seat including the disc hub area. Seat materials shall be pure, virgin PTFE, Conductive PTFE or UHMWPE with 1/8" (3mm) minimum thickness. The seat shall totally encapsulate the body isolating the body from the line media and no flange gaskets shall be required.

The wafer or lug valves shall be rated for bubble-tight shut-off per the following:

For Bidirectional Service:

All valves: 150 psi (10.3 Bar) on sizes 2"-24" (50mm-600mm)

For Dead-end Service (Series 23 Valves only):

All valves : 75 psi (5.2 Bar) on sizes 2"-12" (50mm-300mm)

All valves: 50 psi (3.4 Bar) on sizes 14"-24" (350mm-600mm)

The valve shall be tested for tight shut-off to 110% of the rated pressure.

The Valve shall have the following approvals and certifications: CE/PED Certification, SIL, ABS, Bureau Veritas, DNV