

BRAY RECOMMENDED SPECIFICATIONS**Series 20/21 Resilient Seated Valve****The Valve shall be Bray Series 20 Wafer or Series 21 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, 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.

The valve disc and stem shall be one-piece, high capacity design and the disc edge and hub on metal discs shall be spherically machined and hand polished for minimum torque and maximum sealing capability. If a PTFE or rubber-covered disc-stem is required, the entire disc base material must be encapsulated with no part of the disc or stem exposed to the line media. The valve seat shall be a tongue-and groove design 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 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 with Metal Disc-Stem: 150 psi (10.3 Bar) on sizes 1"-20" (25mm-500mm)

All valves with Rubber Molded Disc-Stem: 100 psi (7.0 Bar) on sizes 2"-20" (50mm-500mm)

All valves with Metal Disc-Stem/PTFE Seats: 150 psi (10.3 Bar) on sizes 2"-20" (50mm-500mm)

All valves with Molded PTFE Disc-Stem/PTFE Seats: 100 psi (7.0 Bar) on sizes 2"-20" (50mm-500mm)

For Dead-end Service (Series 21 Valves only):

All valves : 75 psi (5.2 Bar) on sizes 1"-12" (25mm-300mm)

All valves: 50 psi (3.4 Bar) on sizes 14"-20" (350mm-500mm)

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, NSF/ANSI 61-2008 (Potable Water) Certification, SIL, ABS, Bureau Veritas, DNV