

**3-way Resilient Seated Butterfly Valves**

Valves shall be of the resilient seated type, ANSI Class 125 (150# bolt hole pattern). Body shall be cast iron, fully lugged style rated for 175 psi close off through 12 inch. A 2inch extension neck will be provided to accommodate insulation.

Seat shall be field replaceable peroxide cured EPDM rubber rated from -40 to 250 degree F.

Disc materials shall be aluminum-bronze, stainless steel or Nylon-11 coated ductile iron. Shafts shall be stainless steel.

Valves shall be Bray Series 31 or approved equal.

2 valves shall mounted to a class 125 cast iron tee at 9 o'clock and 6 o'clock positions or 3 o'clock and 6 o'clock positions. Actuated valve shall be the master with connecting linkage to the other as slave. Linkage and mounting parts shall be made of steel.

Electric motor operators for 3-way butterfly assembly shall be 120 vac rated for continuous duty and protected by an integral thermal overload and operate on a 30 second timing cycle. Each actuator shall be equipped with minimum of two form "C" limit switches for indication and mechanical travel stops. Operators will accept a 3-point signal or in modulating applications come equipped with a servo. Servo inputs and feedback outputs shall be field selectable to accept 4-20 ma, 0-20 ma, 0-5 vdc or 0-10 vdc ranges. Actuators used outdoors shall be equipped with a thermostatically controlled 120 vac heating element.

Operator enclosure shall be NEMA 4 rated for outdoor use. Cover removal shall require less than 4 inches of headroom. Operators shall be equipped with a minimum of two conduit entries, captive cover bolts, a prominent color-coded beacon style position indicator, and a de-clutching manual hand wheel override which when operates a power cut off switch on engagement.

All valves and actuators shall be factory assembled and tested as a unit.

Operators shall be Bray Series 70 or approved equivalent.