

TECHNICAL SPECIFICATION

TRIAD ST HIGH PERFORMANCE BUTTERFLY VALVES STHW/STHL

High Performance Butterfly Valves shall be series ST manufactured by Triad Process Equipment,

Valve seats shall be available in (PTFE / RTFE) NBR, EPDM, VITON or Metal (A240/ 316 / 304). Both soft seats and Metal seats will be interchangeable. The metal seats shall provide for an ANSI Class IV shut off on temperatures to 700° F. The valve seats shall be flexible in design and provide for bi directional bubble tight service.

The valve body shall be suitable for dead end service. The valve body shall be drilled from the top of the valve and all the way to the inside bottom in order to accommodate the shaft. Valves that are drilled from both top and bottom are unacceptable because they create a potential leak path on the bottom of the valve.

The disc shall be of a double off-set configuration with a conical angled disc design providing maximum flow, minimal resistance and high Cv.

The stem shall be 17-4 stainless steel and be guided by stainless steel mesh impregnated with PTFE. Stem packing shall be graphite coated meshed stainless steel.

The valve shall be of the modern direct-mount actuator design with actuator flange and stem machined and drilled to the latest ISO 5211 standards. The valve shall incorporate this design to accept ISO 5211 actuators and eliminate the use of brackets. The valve shall have packing adjustment nuts that are located under the actuator flange and can be easily adjusted with the actuator in place.

The retainer ring shall have a surface finish that is 125 to 200 AARH and shall be compatible with both standard gasket and spiral wound gasket designs. Outside diameter shall be recessed within gasket sealing surface to prevent external leakage.

The valve rating and design shall be to the following:

Top flange mounting pad: ISO 5211

Basic Design: API 609, MSS-SP-68, BS 5155, ISO 5752

Shell/Seat Test: API 598, MSS-SP-61

Seat Hydro: Class 150 (360 psig)

Class 300 (740 psig)

Pressure / Temp Rating: ANSI B16.34

Metal to Metal seat leakage is rated at Class IV per ASME/FCI 70-2