

TRI-SEAL QUARTER FLEX HIGH PERFORMANCE BUTTERFLY VALVES

SIZES 2.5" - 36"

SUGGESTED SPECIFICATIONS

GENERAL

High performance butterfly valves shall be Quarter-Flex butterfly valves Model 1150,1151, 2150, or 2151 as manufactured by McWane Plant & Industrial, LLC. When required by the purchaser valves shall be manufactured in the United States using 100% domestic castings and materials.

REFERENCE STANDARDS

High Performance Butterfly Valves shall meet or exceed API 609 8th Ed.

VALVE BODY

The valve body shall be constructed of Carbon Steel ASTM 216 WCB or A 351 Stainless Steel ASTM A351 Grade CF8M. The valve body shall be lugged or wafer style. ANSI CL 150 valves size 3"-24" shall meet AWWA C519 lay length requirements.

VALVE SHAFT

The valve shaft shall be a heavy-duty one-piece shaft (in sizes 2 1/2" -16") constructed of high strength 17-4 PH or 316 Stainless Steel. The shaft shall be internally retained by a snap ring located above the packing area (non-wetted area) that provides safe tamper- proof retention and shall not interfere with packing adjustments, eliminating the need of removal of the shaft when replacing packing. The valve shaft shall be a double offset shaft design that reduces seat wear and enhances sealing by providing a camming action that lifts the disc off the seat. The double offset design shall result in full 360° sealing contact, ensuring no leakage occurs when in the fully closed position.

VALVE BEARINGS

Valve bearings shall be RPTFE-lined, 316 Stainless Steel bearings that maximize corrosion resistance and minimize shaft deflection.

VALVE SEATS

The valve seat shall be PTFE or RPTFE capable of providing bi-directional bubble tight sealing. The valve seat shall provide effective low pressure sealing capability. The valve seat shall assure a bubble tight closure when line pressure increases. When the direction of the flow is reversed the seat functions in the same manner, once again achieving tight shutoff.

INTEGRALLY CAST TRAVEL STOP

The valve shall have an integrally cast travel stop that provides proper disc positioning and prevents seat damage due to the disc rotating beyond the closed position.

VALVE ACTUATOR

The high-performance butterfly valve shall be capable of being actuated by a 10-position locking lever, geared operator with handwheel, geared operator with 2" square operating nut, or electric motor operator.

TESTING

Each valve and valve actuator shall be assembled, adjusted, and tested as a unit by the valve manufacturer in accordance with the testing requirements of API-598.



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