

TILTING DISC CHECK VALVE

General

The check valve shall be the Henry Pratt Series tilting disc check valve as manufactured by Henry Pratt Company. The tilting disc check valve shall consist of a circular disc with conical rim, hinged about a fixed pivot above its center-line and offset from the plane of the seat, sealing against a body seat clamped between the two sections of the valve body.

Valve Construction

The body shall be two-piece, consisting of an entrance and a discharge section bolted together at an angle with the pipeline. An O-ring seal in a groove between the body flanges shall be in place to prevent leakage between the flanges when bolted together. The valve shall be complete with ANSI class flanges to mate with adjacent equipment.

A body seat shall be clamped in place in a slot between the two body sections. The body seat shall have a conical finish to mate with the disc seat. There shall be an inspection port provided in both the entrance and discharge sections to provide visual access both upstream and downstream of the disc. An indicator shall be provided to show disc position for the full range of travel. Bosses shall be cast in both the entrance and discharge sections to allow for a top or bottom mounted oil dashpot for controlled opening and closing.

All valve castings shall be ductile iron ASTM A536 Grade 65-45-12. The disc and body seat ring shall be ASTM A 276 Type 304. The hinge-pin shall be stainless steel ASTM A276 Type 304. The bearing sleeve shall be Bronze B62. Materials of construction warrant the UL listed dual ANSI/NSF 62 and ANSI/NSF 372 certifications.

Testing

Seat and leakage testing shall be in strict accordance with AWWA Standard C-508 latest edition for Swing Check Valves. Rated working pressure of the check valve line is 250 psi.

Coating

Coating shall be a NSF61 approved epoxy.



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