RUBBER SEATED BUTTERFLY VALVE SIZES, 3”-20”

Suggested Specifications

GENERAL

Butterfly valves shall be manufactured in accordance with the latest revision of AWWA C504, Class 150B and conform to NSF Standard 61. The manufacturer shall have produced AWWA butterfly valves for a minimum of five years. All valves shall be either Pratt Model 2FII or Monoflange MKII as manufactured by us.

VALVE BODY

Valve bodies shall be constructed of ASTM A126, Class B cast iron for flanged valves or ASTM A48, Class 40 for wafer style. Flanged valves shall be fully faced and drilled in accordance with ANSI Standard B16.1, Class 125.

VALVE SEATS

Rubber body seats shall be of one piece construction, simultaneously molded and bonded into a recessed cavity in the valve body. Seats may not be located on the disc or be retained by segments and/or screws. For wafer style valves, the seat shall cover the entire inner surface of the valve body and extend over the outside face of the valve body to form a flange gasket.

VALVE BEARINGS

Valve bearings shall be of a self-lubricating, nonmetallic material to effectively isolate the disc-shaft assembly from the valve body. Metal-to-metal thrust bearings in the flow stream are not allowed.

VALVE DISC

The disc shall be a lens-shaped design to afford minimal pressure drop and line turbulence.

Materials of construction shall be:

- 3"-6" — ASTM A351 gr. CF8N stainless steel disc
- 8"-20" — ASTM A126, Class B cast iron disc with a stainless steel type 316 edge

Discs shall be retained by stainless steel pins which extend through the full diameter of the shaft to withstand the specified line pressure up to valve rating and the torque required to operate the valve. Disc stops located in the flow stream are not allowed.

VALVE SHAFTS

Valve shafts shall be of stainless steel type 304. At the operator end of the valve shaft, a shaft seal utilizing “V” type chevron packing shall be utilized. “O” ring and/or “u” cup packing is not allowed.

PAINTING

All surfaces of the valve interior shall be clean, dry and free from grease before painting. The valve interior and exterior, except for disc edge, rubber seat and finished portions shall be evenly coated with an NSF61 approved 2-part liquid epoxy. Minimum dry film thickness shall be 8 Mils minimum.

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