

### Sample Specifications

#### 1.0 Butterfly Valves – FK

##### 1.1 Material

- The valve body shall be made of glass reinforced polypropylene (GRPP) obtained from homopolymer polypropylene (PPH).
- The valve disc shall be made of stabilized PP homopolymer compound, also containing a RAL 7032 pigment, which shall meet or exceed the requirements of Type I Polypropylene according to ASTM D4101-86.
- or The valve disc shall be made of PVC compound which shall meet or exceed the requirements of cell classification 12454 according to ASTM D1784.
- or The valve disc shall be made of Corzan® CPVC compound which shall meet or exceed the requirements of 23447 according to ASTM D1784.
- or The valve disc shall be made of virgin, non-regrind PVDF compound which shall meet or exceed the requirements of Table 1 according to ASTM D3222.
- These compounds shall be listed with NSF to Standard 61 for potable water.
- The valve shaft shall be made of 420 stainless steel.

##### 1.2 Seats

- The disc liner shall be made of EPDM which shall be listed with NSF to Standard 61 for potable water.
- or The disc liner shall be made of FPM which shall be listed with NSF to Standard 61 for potable water.

##### 1.3 Seals

- The o-ring seals shall be made of EPDM which shall be listed with NSF to Standard 61 for potable water.
- or The o-ring seals shall be made of FPM which shall be listed with NSF to Standard 61 for potable water.

- 1.4** All other wetted and non-wetted parts of the valves shall be listed with NSF to Standard 61 for potable water.

#### 2.0 Connections

##### 2.1 Flanged style

- The ANSI 150 flanged connections shall conform to the dimensional standard ANSI B16.5.

#### 3.0 Design Features

- The valve shall be of either wafer or lugged design (specifier must select one).
- The lugged style shall feature permanently integrated stainless steel lugs.
- Manual control of the valve shall be achieved through the use of either a lever handle or mounted gear box (specifier must select one).
- The shaft shall have standard ISO square dimensions for direct mounting of actuators.
- The disc seat shall be a trapezoidal elastomeric liner and provide a bubble tight seal.
- The liner shall completely isolate the valve body from the process flow.
- The liner shall function as a flange gasket on both sides of the valve.
- The body cavity shall feature special channeling to prevent liner slippage and compression.
- The disc, seats, and seals shall be the only wetted parts.
- Teflon® seated o-ring seals shall prevent the stainless steel shaft from becoming wetted.
- The handle shall incorporate a transparent PVC plug and tag holder for valve identification.

##### 3.1 Pressure Rating

- Valve sizes 1-1/2" through 10" shall be rated at 150 psi at 73°F.
- Valve sizes 12" shall be rated at 120 psi at 73°F.
- Valve sizes 14" shall be rated at 100 psi
- Valve sizes 16" shall be rated at 85 psi

##### 3.2 Markings

- All valves shall be marked to indicate size, material designation, and manufacturers name or trade mark.

##### 3.3 Color Coding

- All valves shall be color-coded beige gray.

- 4.0** All valves shall be by IPEX or approved equal.

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