

### Sample Specification

#### 1.0 Butterfly Valves – FE

##### 1.1 Material

- The valve body and disc shall be made of PVC compound which shall meet or exceed the requirements of cell classification 12454 according to ASTM D1784.
- The valve shaft shall be made of zinc plated steel.

##### 1.2 Seats

- The disc liner shall be made of EPDM.

##### 1.3 Seals

- The o-ring seals shall be made of EPDM.

#### 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 wafer design.
- 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 shaft from becoming wetted.
- The handle shall incorporate a transparent PVC plug and tag holder for valve identification.

#### 3.1 Pressure Rating

- All valves sizes 1-1/2" through 2" shall be rated at 232 psi at 73°F.
- All valves sizes 2-1/2" through 8" shall be rated at 150 psi at 73°F.
- All valves sizes 10" through 12" shall be rated at 75 psi at 73°F.
- The handle shall incorporate a transparent PVC plug and tag holder for valve identification.

#### 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 dark gray.

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

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- PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings

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