

Type 55 Butterfly Valves

1.0 Scope:

All requirements are for Type 55 Butterfly Valves and accessories.

2.0 Materials:

Ductile Cast Iron – FCD-S With Epoxy PowderCoat
PTFE - Teflon® Polytetrafluoroethylene
EPDM – Ethylene Propylene Diene Terpolymer Rubber
Nitrile – Nitrile Butadiene Rubber
Neoprene – Polychloroprene

3.0 Valves:

Type-55 Butterfly valves shall feature a powder coat finish cast ductile iron body with PTFE disc and seat. The PTFE seat shall be Neoprene backed for chemical resistance and flexibility over a wide range of temperatures. Valves shall feature a 304 SS stem with full engagement thru the valve body and disc. Valves 2" – 5" shall feature a lever handle with 19 position throttling plate and trigger padlock provision. Valves 2" – 10" feature gear operators which shall be worm gear design, self-locking Plasgear™ as manufactured by Asahi/America Inc. Valves shall be rated to 150 psi from -5°F thru 210°F sizes 2" – 10" and 100 psi as manufactured by Asahi/America Inc.

3.1 Operators

Type 55-IS 2" – 8" (Lever Type standard sizes 2" – 8")
(Gear Type standard sizes 2" – 10")

Lever Handle to be Asahi Standard valve handle color Red

Gear-operator to be Asahi Plasgear™ all plastic construction with SS trim submersible type gear-operator for valves sizes 2" – 10".

3.2 Approved Manufacturer

Valves shall be provided by Asahi/America, Inc. of Lawrence, MA with no approved equals. Manufacturer must be ISO-9001 certified.

3.3 Pressure vs. Temperature

Valves shall have a pressure rating of:

150 psi at 70°F sizes 2" – 10"

4.0 Accessories:

4.1 Stem Extensions

Stem extensions where required should be designed, built and provided by the Asahi/America, Inc., and be 1 of 5 styles:

Style LBF-A Two piece extension with outer housing 100% sealed either free standing or supported design.

Style GBF-A Two piece extension with outer housing 100% sealed either free standing or supported design.

Style LBF-B Single piece extension either free standing or supported design

Style GBF-B Single piece extension either free standing or supported design.

Style GBF-C Single piece extension for the gear handwheel only either free standing or supported design.

4.2 Actuation

Actuation where required should be designed, built and provided by Asahi/America, Inc., and be either pneumatic (Series 79P) or electric (Series 94, 92, or 10) type. All actuation accessories to be provided and installed by Asahi/America, Inc. in accordance with manufacturers requirements.

4.3 Lugs

There shall be no provision for Lug style body.

4.4 Operating Nuts

Where required 2" square operating nuts can be installed on Lever type or Gear type Butterfly valves. On Gear type valves, the gear operator must remain on top of valve body and only the handwheel from gear-operator is replaced by 2" square operating nut.

Materials of construction – Anodized Aluminum.

4.5 Chain Operators

Where required for overhead applications, chain operators manufactured by Babbitt Steam may be installed on Gear-operated butterfly valves. Chain must be weldless loop style chain supplied from Babbitt Steam.

Materials of construction: Chain Operator – Cast Iron

Chain – Hot Galvanized steel, others by request.

5.0 Installation Procedures:

All valve joints shall be prepared using flanged connections to accept either wafer style or lugged butterfly valves. The bolt diameters and torque values should be according to manufacturer's standard and requirements put forth in Type 55IS Butterfly valve Operation and Maintenance manuals. All accessories should be installed in accordance with the manufacturer's requirements as well as any facility requirements.