TRIPLE ECCENTRIC METAL TO METAL BUTTERFLY VALVES

DESIGN FEATURES AND APPLICATION

Application
Triple eccentric butterfly valves are designed in triple offset construction, laminated seat or metal to metal seal that can withstand high temperature and high pressures, for long service life. The high performance butterfly valves can be used to shut-off or flow control. Mainly used in industrial pipelines with corrosive medium and widely used in metallurgy iron and steel industry, power plant, petroleum, chemical industry, heat supply, inflammable gas, municipal water supply and drainage and etc.

Replacement for in particular ball valves and gate valves when pigable in N/A.

Service
CRUDE OIL, JET FUEL, KEROSENE, GASOLINE, ACID GAS, SOUR GAS, NATURAL GAS, SYNGAS, CARBON DIOXIDE, FLARE GAS, TAIL GAS, ETHYLENE, ETHYLENE GLYCOL, ETHYLBENZENE, BUTADIENE, STYRENE, HYDROGEN, OXYGEN, NITRIC, ACRYLIC, SULPHURIC, HYDROCHLORIC, HYDROFLUORIC, ACETIC ACID, HYDROGEN PEROXIDE, ALCOHOLS, AMMONIA, AMINES, CHLORINE, VINYL CHLORIDE, STEAM, GEOTHERMAL STEAM, HEAT TRANSFER FLUIDS, FLUE GAS, COKE OVEN GAS, POTABLE WATER, SEA WATER, WASTE WATER.

Design Features
1. Bi-directional and zero leakage
2. Inherent fire safe design
3. Low external emission due to stem packing design
4. Low torque and low wear
5. Suitable for flow regulation
6. Compact F-F, Light weight
THE CONCEPT OF TRIPLE ECCENTRIC

OFFSET 1
The shaft is placed behind the plane of the seating surface to provide a continuous seat path.

OFFSET 2
The shaft is placed to one side of the pipe/valve centerline to allow the displacement of the seal from the seat during the 90° opening.

OFFSET 3
The seat and seal cone centerlines are inclined in respect to the pipe/valve centerline. This third offset completely eliminates rubbing.