

Double Eccentric Type Butterfly Valve



Description

Double eccentric butterfly valves, so called high performance butterfly valves, these valves are characterized by their long service time, low maintenance and reduced friction between the seal and the gasket.

Their first eccentric is the offset between the shaft Centre line and the disc trunnion Centre line. Second eccentric is the offset between the body center line and the disc centre line. This design offers excellent controllability, bubble tight shut-off and a smooth operation, plus a reduced flow resistance.

Features

- ✓ Resilient seated , Face-to-face dimension
- ✓ Flange connection on both sides
- ✓ Low headloss, minimized flow restriction and high energy-efficiency
- ✓ Disc bearing in maintenance-free bushings, sealed by means of O-rings
- ✓ Polygon-connection of shaft and disc without additional security elements required, closed bearing-eyes for uninterrupted corrosion protection
- ✓ Corrosion- and wear-resistant overlay welded seat
- ✓ Optimum corrosion protection by epoxy powder coating according to GSK guidelines
- ✓ Standard actuation by robust and maintenance-free slider-crank gearbox, protection class IP 68, with integrated position indicator
- ✓ Modular actuation concept that allows use of hand wheel, electric actuator, extension spindle, hydraulic drop weight actuator, pneumatic actuator or chain wheel
- ✓ The double offset disc design ensures minimal seat wear and provides excellent throttling capabilities.
- ✓ Adjustable mechanical stopper provided on valve body ensures precise closing of the disc without over/under travel.
- ✓ Axial thrust bearing provided on valve ensures precise positioning of the disc and prevents unequal loading of the valve seat, it also enables installation of valve in any orientation of required.

Technical Specifications

Feature	Value
Valve Type	Double offset disc double flanged Butterfly valve
Body Type	Double flanged
Seat Type	Fully replaceable fitted on the disc periphery
End Connection	Flanged
Size Range	300 NB to 3000 NB
Operating temperature range	0C to 180C (Depending on MOC)
Pressure Rating	PN 10/PN16/PN25/PN40/PN63
Seat Leakage	Tight shut off
Operation	Worm gear, Pneumatic & Electric actuators

Codes & Standards

Conformity to Codes and Standards

- ✓ Complies with the requirements of European Pressure Equipment Directive PED 97 / 23 / EC
- ✓ Complies with the requirements of ATEX 94/9/EC

General Design & Manufacturing	EN593/ API 609
Face to Face Dimensions	Short pattern EN593 / API609 / ISO 5752 series-13 / AWWA C504
Top Flange Drilling	ISO 5211
Valve Inspection & Testing	API 598 / EN593
Flange Standard Conformity	BSEN 1092- PN6 / PN10 / PN16
	WRAS Approved Coating & EPDM