DOUBLE ECCENTRIC BUTTERFLY VALVES

General Catalogue
DOUBLE ECCENTRIC BUTTERFLY VALVE

Description

Butterfly valves are isolating valves (ON – OFF) and can be installed either horizontally or vertically.

According to the type of connection can be double flanged or wafer type.

Double eccentric butterfly valve type is when the disk´s point of rotation lies both horizontally and vertically outside the sealing plane.

Disk design to withstand the maximum differential pressure in either direction of flow

Disc closure seating in resilient type

Disc contoured to get the lowest possible resistance to flow and for throttling operation with minimum vibration

With self-lubricating bronze bearing bushes to achieve a long and safe service life

Main fields of applications

Municipal water systems in drinking water supply networks or water treatment plants.

Hydro-power plants in pressurized conduits and for closures in the event of emergency (Anti Burst).

Technical Details

Design Pressure: PN10/ PN16/ PN25/ PN40

Sizes: DN300 – DN2000 (12” – 80”)

For water up to max. 70°C

Max. fluid speed is 4,9 m/s (acc. To AWWAC C504)
Bi-directional service
Low head loss
Rugged global design
Easily replaceable seal retaining ring for field service
Self lubricated bushes
Hand wheel and worm gear operation

**Standards:**

AWWA C-504-80

AWWA M49 “Butterfly Valves: Torque Head Loss and Cavitation Analysis

Design according to ASME section VIII, AWWA C504-80 & DIN3840

Certification: Material and test certificates available upon request

**Sizes DN200 – DN1.200**

Material:

Body: Ductile Iron EN-GJS-450-10

Valve Disc: Ductile Iron EN-GJS-450-10

Shaft: Stainless Steel BS 970 part 4 Gr 431

Retaining Ring: Stainless Steel BS 970 part 4 Gr 431

Bush Bearing: Aluminum bronze

Sealing Rubber: Ethylene Propylene Rubber (EPDM) or Nitrile Rubber (NBR)

Hand wheel: Ductile Iron BS 2789

Seat: AISI-316

Flanges: EN 1092

Distance between flanges: DIN3202 part 3 serie F4

External and Internal Bolting: SST A4
Coating: Body and Disc: Internal and External 300 microns thickness of fusion bonded epoxy coating. According to AWWA C213-79

Hydraulic tests acc to DIN 3840:

Body test pressure: 1,5 times body rated pressure
Seat Leakage test: 1,1 times body rated pressure

Any other type of material and coating available upon request

**Sizes DN500 – DN2000**

Material:

Body: Carbon Steel GGG50 / Stainless Steel AISI 304
Valve Disc: Carbon Steel GGG50 / Stainless Steel AISI 304
Shaft: Stainless Steel BS 970 part 4
Gr 431
Retaining Ring: Stainless Steel BS 970 part 4 Gr 431
Bush Bearing: Aluminum bronze
Sealing Rubber: Ethylene Propylene Rubber (EPDM) or Nitrile Rubber (NBR)
Hand wheel: Ductile Iron BS 2789
Seat: AISI-316
Flanges: EN 1092
Distance between flanges: DIN3202 part 3 serie F4
External and Internal Bolting:SST A4

Coating: Body and Disc: Internal and External 300 microns thickness of fusion bonded epoxy coating. According to AWWA C213-79

Hydraulic tests acc to DIN 3840:

Body test pressure: 1,5 times body rated pressure
Seat Leakage test: 1,1 times body rated pressure

Any other type of material and coating available upon request
Accessories:

Extension Spindle

Different types of gear boxes, electric or hydraulic actuators

Prepared for by-pass

Prepared for tele-control

Special materials for Seawater applications, etc

Actuator types:

• Electric actuator

• Hydraulic actuator

• Pneumatic actuator

Anti-Burst Valve Features

All devices of the detection system are external to make easy the maintenance work

Detection systems: Hydraulic / Differential Pressure Pilot