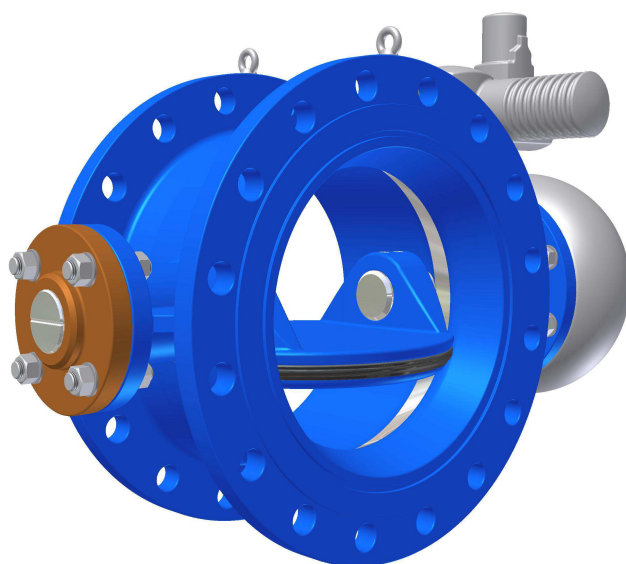




IRUA TECH Ind.
Pol. Ind Erletxe, C-2 nave 3
48960 Galdácano (Vizcaya)
- SPAIN
www.irua.es



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:

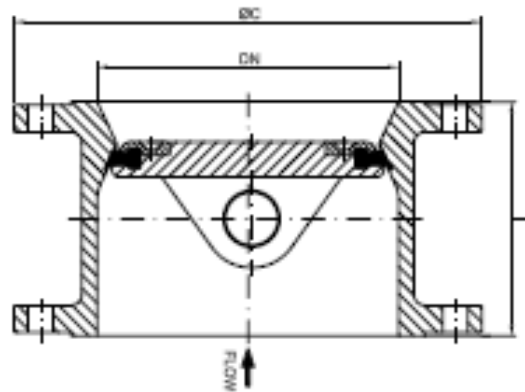
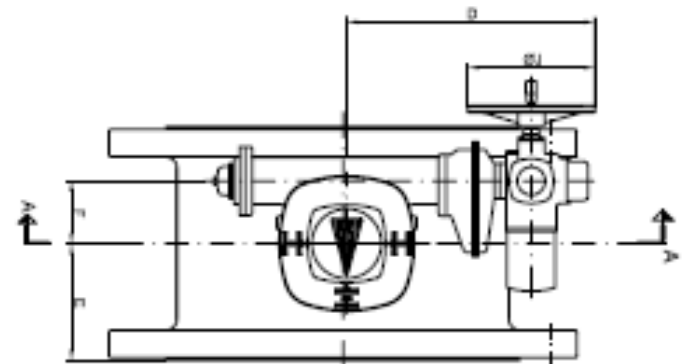
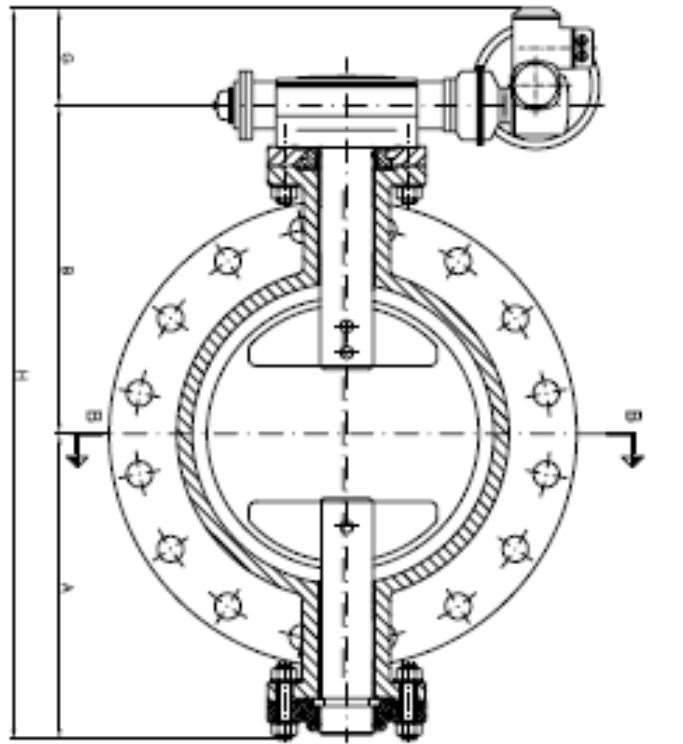
- Electric actuator
- Hydraulic actuator
- Pneumatic actuator

Anti-Burst Valve Features

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

Detection systems: Hydraulic / Differential Pressure Pilot





PN 16

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
A	200	230	260	300	340	380	450	530	620	710	800	900	1000	1150	1300	1450	1600	1750
B	200	230	260	300	340	380	450	530	620	710	800	900	1000	1150	1300	1450	1600	1750
H	200	230	260	300	340	380	450	530	620	710	800	900	1000	1150	1300	1450	1600	1750
D	230	260	290	330	370	410	480	560	650	740	830	920	1010	1160	1310	1460	1610	1760
E	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
F	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
G	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
I	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
J	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160

PN 25

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	800	900	1000
A	240	270	300	340	380	420	500	580	670	760	850	940	1030	1180	1330	1480	1630	1780
B	240	270	300	340	380	420	500	580	670	760	850	940	1030	1180	1330	1480	1630	1780
H	240	270	300	340	380	420	500	580	670	760	850	940	1030	1180	1330	1480	1630	1780
D	270	300	330	370	410	450	520	600	690	780	870	960	1050	1200	1350	1500	1650	1800
E	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
F	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
G	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
I	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160
J	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160	160

ONLY FOR INFORMATION

Note: All dimensions are in millimeters.

Scale	1:1
Drawn by	SAUL
Checked by	SAUL
Approved by	SAUL
Issue	01
Date	11-09-13
Project	VALVE
Part	DOUBLE BUTTERFLY VALVE WITH ELECTRICAL ACTUATOR
Drawing No.	2200
Rev.	0

