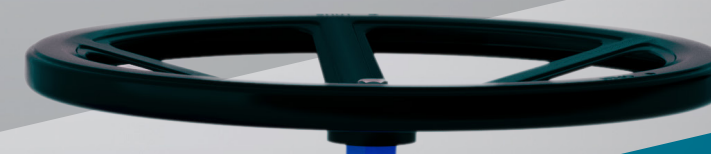


Fucoli-Somepal
can provide
butterfly valves
with manual
gearbox,
electric actuator
or with pneumatic
actuator.

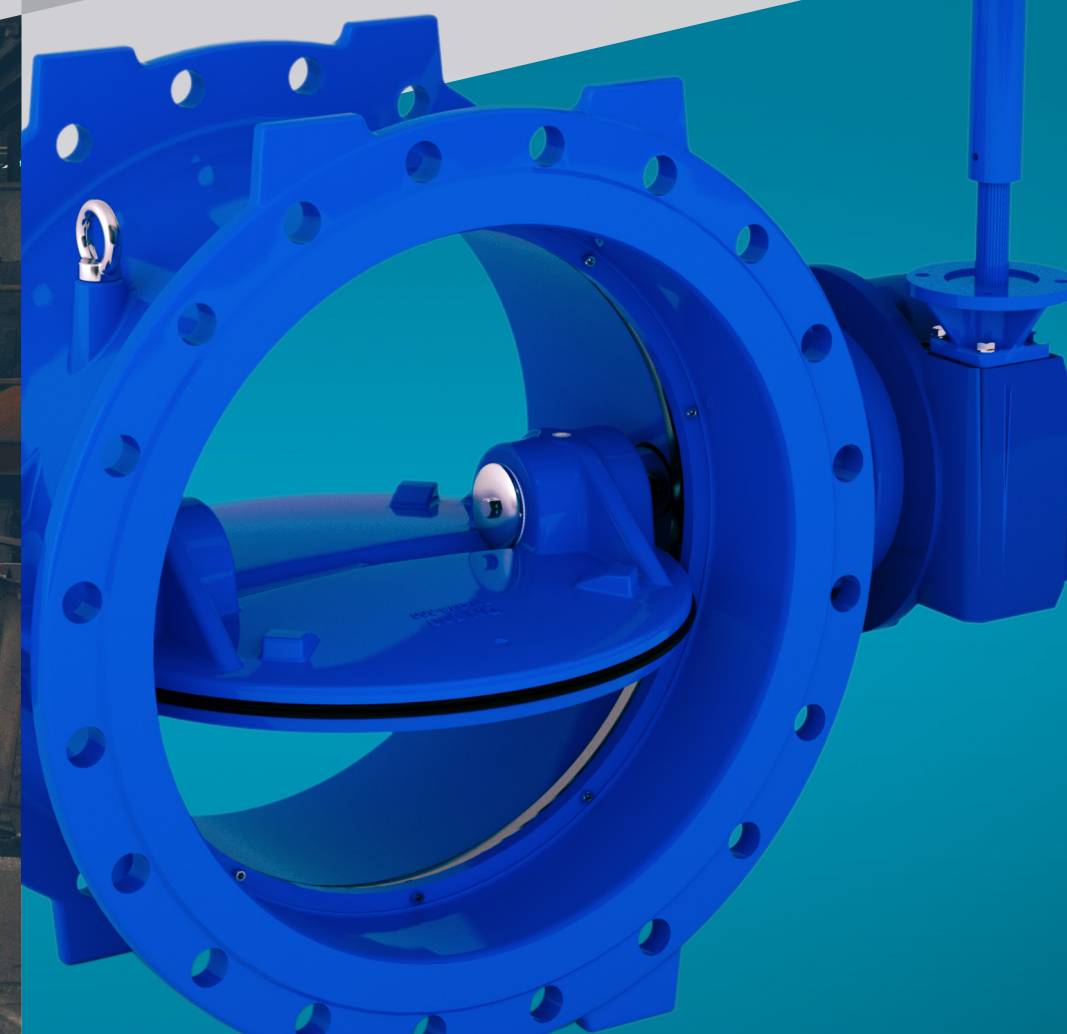


Fucoli Somepal
FUNDIÇÃO DE FERRO, S.A.

SEIT
SINCE 1946



**Butterfly
Valve
Series
DUPLEX**



CONTROL OF THE ENTIRE PRODUCTION PROCESS

The two Fucoli-Somepal factories are located in Portugal, where is controlled the entire production process ensuring a constant quality of its products. The selection of raw materials sources is rigorous and careful. All raw materials before received are analyzed in our laboratory.

Using a modern automatic pouring system, all products are manufactured in ductile cast iron EN-GJS-500-7 (GGG50).

The mechanization of the products is carried out using the latest CNC Machining technologies.

CORROSION PROTECTION

All products has an internal and external excellent corrosion protection. The coating quality is controlled according to the requirements of DIN 30677 and GSK (RAL-GZ662).

Fucoli-Somepal has three coating systems - robotic, automatic and semi-automatic - which is electrostatically applied epoxy coating with a minimum thickness of 250µm.

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BUTTERFLY VALVE SERIES DUPLEX

Based on their long experience in conception and development of the best solutions for water and sewage networks, Fucoli-Somepal introduces the butterfly valve series DUPLEX. The series DUPLEX is a double eccentric and bi-directional sealing valve and was designed to meet the most demanding criteria. Its effectiveness, ensures high reliability.

The butterfly valve Series Duplex has a short-pattern design (face-to-face S14 according EN 558) and is available with nominal diameters from DN 150 to DN 1200 and pressure ratings range from PN 10 to PN 25, covering a wide range of applications.

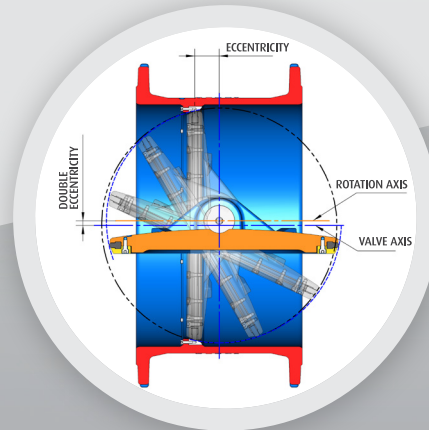
Is designed for isolation or regulation of flows, for use in water treatment plants, pumping stations, irrigation, water supply, deposits, etc.

DOUBLE ECCENTRICITY

The double eccentricity design means that the obturator/shaft axis is offset from the two central axes of the valve. Thus one eccentricity consists in the main seal is offset to the shaft vertical axis. Additionally to this the shaft axis is offset above the pipeline axis.

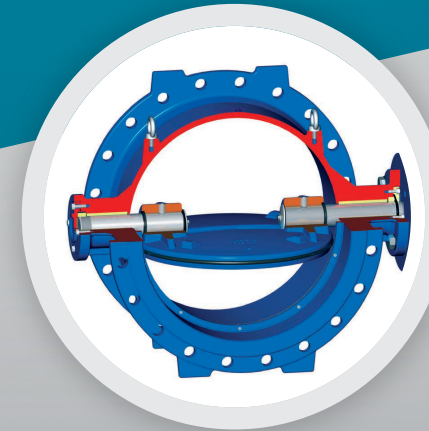
Due to the doble eccentricity when the swivel motion is started for opening, a rotary motion occurs which is superimposed by a translatory motion in addition. When the obturator rotates, moves away from the body seat after a few degrees of opening, the sealing ring moves away from the seat relieving the gasket and minimizing the wear abd tear, this results in a longer service life.

The translational movement enables also the replacement of the obturator sealing ring at any time, even when the valve have been closed for long periods of time.



Advantages

- Requires small installation space both in a pipeline and in a chamber where it will be installed;
- Long life of the valve and low maintenance costs;
- Less wear of the seal as the friction between the seal and the seat of the body disappears a few degrees after its opening;
- Reduced operating torque;
- Bi-directional sealing allowing a perfect seal on both flow directions;
- Easy orings and obturator sealing ring replacement in open position;
- Innovative obturator system stability that prevents its displacement in the transverse direction thereby ensuring a permanent seal.



PRESSURE TESTS AT 100%

All valves are individually hydrostatically tested in the factory at high and low pressure, according to EN 1074-1/2, and EN 12266.

TEST AND CERTIFICATIONS ACCORDING TO EN 1074

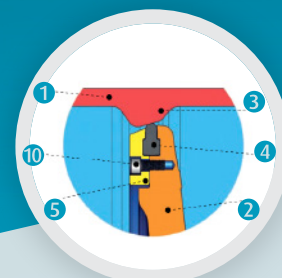
All models of butterfly valves were subjected to rigorous testing according to standard EN1074. The butterfly valves developed and manufactured by Fucoli-Somepal, are certified by AENOR (Spain).



GEARBOX

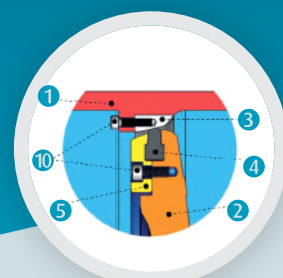
Equipped as standard with gearbox correctly adjusted in the factory, in the opening and closing positions, which guarantee its correct functioning.

Gearbox with worm-gear which blocks the shutter in any position, thus impeding that the impact of the flow changes its position.



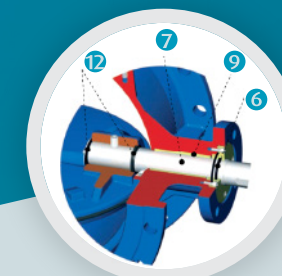
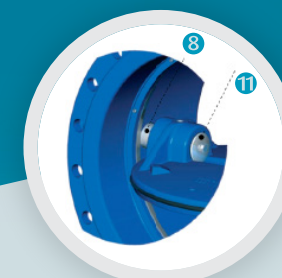
Series DUPLEX 500

In the Series Duplex 500, the sealing is performed between the EPDM sealing ring and the body seat in ductile cast iron EN - GJS-500-7 (GGG50).



Series DUPLEX 304 and DUPLEX 316L

In the Series Duplex 304 and Series Duplex 316L, the sealing is performed between the EPDM sealing ring and a body seat in stainless stell AISI 304 (DUPLEX 304 or in stainless steel AISI 316L (DUPLEX 316L).



COMPONENTS	MATERIAL	STANDARD
1 Body	Ductile Iron EN -GJS -500	DIN EN 1563
2 Obturator	Ductile Iron EN -GJS -500	DIN EN 1563
3 Body seat	Series DUPLEX 500 - Ductile Iron EN - GJS - 500 Series DUPLEX 304 - Stainless Steel 304 Series DUPLEX 316L - Stainless Steel 316L	DIN EN 1563 EN 10088-1 EN 10088-1
4 Obturator sealing ring	EPDM elastomer with CE marking	BS EN 681-1
5 Seal retaining ring	Ductile Iron EN -GJS -500	DIN EN 1563
6 Orings	EPDM elastomer with CE marking	BS EN 681-1
7 Command shaft	Series DUPLEX 500 and DUPLEX 304 - Stainless Steel 304 Series DUPLEX 316L - Stainless Steel 316L	EN 10088-1 EN 10088-1
8 Secondary shaft	Series DUPLEX 500 and DUPLEX 304 - Stainless Steel 304 Series DUPLEX 316L - Stainless Steel 316L	EN 10088-1 EN 10088-1
9 Shafts cover	Bronze	DIN EN 1982
10 Bolts	Stainless Steel A2	EN 10088-1
11 Washer of the shaft	Stainless Steel	AISI 303
12 Sealings	EPDM elastomer with CE marking	BS EN 681-1

butterfly valve series DUPLEX