

CENTRIC BUTTERFLY VALVES

BELGICAST RANGE

GOLD

The centric butterfly valve « GOLD range » is the basic solution for bidirectional isolation functions by means of a butterfly valve. It is the perfect choice for installation between two piping flanges, or at the end of pipelines. Due to its extremely short face-to-face dimension, the valve is very compact. Therefore, it allows also the surrounding buildings to be dimensioned very compact and cost-effective. As the valve body is fully covered with a rubber sealing, this valve type can be used in many applications by just adapting the disc coating or material to the application requirements without any huge special effort. The valve is suitable for bidirectional use and is tight in both directions.



MARKETS



Water treatment



Water transmission



Desalination



Water distribution network



Industrial water applications



Irrigation

TECHNICAL DATA

Design acc. to EN593 and EN 1074-2

Face-to-face dimension acc. to EN558 series 20

Nominal Diameter (DN): DN32 to 1800 (according to body design)

Nominal Pressure (PN): PN10 to PN16

Medium Temperature: Standard up to 60°C (other possibility according to liner material)

APPROVALS

DVGW, GOST, ACS, WRAS

ADVANTAGES

COMPACT

Compact and cost-efficient solution that allows economic layout of valve environment.

VERSATILE

Modular design allows easy adaption of valve to application requirements.

PROVEN DESIGN

Reliable product made in Europe successfully installed worldwide.

CHARACTERISTICS

└ **Corrosion protection** ensured by valve body fully covered by rubber liner and appropriate disc coating or material.

└ **Flange gaskets incorporated** in liner. No additional flange gaskets required.

└ **Flexible installation** – Valve can be installed between two piping flanges or at the end of pipeline with our without counter flange (see installation instructions), both installation directions are possible.

└ **Automation** – Standard ISO 5211 connection flange allows use of all different kinds of actuators.

└ **Replaceable rubber liner.**

└ **Wide variety of applications** including drinking water and industrial applications, due to the wide variety of high-grade materials for the liner and disc.

└ **Low operating torques.**

└ **Long service life.**

└ **Easy maintenance** with low costs.

└ **Class tightness Rate A** according to EN 12266-1 (" 0 drops ").

└ **Different options** for operating devices.

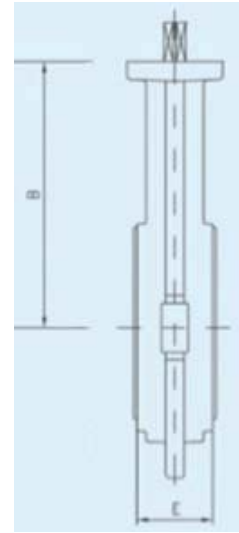
3 BODIES TO SOLVE YOUR CONSTRAINTS OF INSTALLATION



WAFER TYPE



LUG TYPE

DOUBLE
FLANGE TYPE

DN	E (mm)	B (mm)	MAX WEIGHT* (kg)			LUG								WAFER								DOUBLE FLANGE		
			Lug	Wafer	Flanged	EN1092 - PN6	EN1092 - PN10	EN1092 - PN16	ANSI-150	BS Table D	BS Table E	JIS 5K	JIS 10K	EN1092 - PN6	EN1092 - PN10	EN1092 - PN16	ANSI-150	BS Table D	BS Table E	JIS 5K	JIS 10K	EN1092 - PN10	EN1092 - PN16	ANSI-150
32	33	125	1,75	1,2		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
40	33	125	1,84	1,52		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
50	43	140	2,5	2,14		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
65	46	156	3,62	2,98		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
80	46	161	5,39	3,2		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
100	52	181	7,73	4,49		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
125	56	195	9,96	7,6		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
150	56	210	10,97	8,8		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
200	60	237	17,88	12,5		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
250	68	262	27,2	20,34	30	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
300	78	300	39,1	31,1	40	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
350	78	340		45	50									●	●	●						●	●	●
400	102	360		65	71									●	●	●						●	●	●
450	114	390		95	110									●	●	●						●	●	●
500	127	420		125	150									●	●	●						●	●	●
600	154	495		185	225									●	●	●						●	●	●
700	165	575		300	370									●	●	●						●	●	●
800	190	620			510																	●	●	●
900	203	690			650																	●	●	●
1000	216	750			835																	●	●	●
1100	216	795			900																	●	●	●
1200	254	865			1070																	●	●	●
1400	279	980			1280																	●	●	●
1600	318	1090			2100																	●	●	●
1800	356	1290			-																	●	●	●

● : same product.

(*) : maximum weight of the valve free shaft without actuating device, can be lighter depending on flange compatibility.



FEATURES AND BENEFITS

PERFECT CLOSING SYSTEM

The central element of the butterfly valve is the aerodynamically designed valve disc, which is machined spherically. It is mounted centrally in the body in maintenance-free bushings and closes against a single-piece keyed liner, which is firmly anchored in the body thanks to the shape of the internal part of the liner. This way, it seals the complete valve passage resulting in a completely tight seal in both directions of flow.

PROTECTED SHAFT

The design ensures that only the valve disc and liner come into contact with the medium. In contrast, the shaft, which is positively connected with the valve disc, is completely protected. The end of the shaft has involute gearing or a special shape, according to the diameter of the valve, which always guarantees reliable torque transmission without play.

EASY MAINTENANCE

In case it's needed, the liner can be easily replaced at any time. The centring marking helps perform this operation. The disc and the liner can be easily replaced, which reduces maintenance costs, since all the work can be done directly at the set-up location.

ADAPTABILITY TO DIFFERENT APPLICATIONS

Only the disc and the liner are in contact with the fluid, so just by choosing the right materials for these two elements, the valve can be used for different applications, starting with drinking water and finishing with industrial mediums. TALIS offers a wide variety of materials for liner and disc

LINER MATERIAL	ISO	CHEMICAL NAME	APPLICATION EXEMPLE	WORKING TEMP.
EPDM	EPDM	Ethylene-Propylene Terpolymer	Water, weak mineral acids and basis, water ketones, esters	-10° +80°
EPDM-HT			High temperature	-10° +130°
			Normative FDA	-20° +130°
NITRILE	NBR	Acrylonitrile-Butadiene Copolymer	Oils, Greases, Fuel, Gas oil, CO ₂ , CO, H ₂	-10° +80°
HYPALON	CSM	Chlorosulfonated Polyethylene	Moderate resistance to oil, greases and weak acids	-20° +120°
VITON	FPM	Hexafluoropropylene vinylidene fluoride copolymer	Best chemical resistance	-15° +200°
		HFP-VDF-TFE terpolymer	Oxygenated Gasoline	-5° +70°
NATURAL	NR	1,4 cis / Polyisoprene	Very good abrasion resistance	-5° +70°
SILICONE	MVQ	Poly methyl vinyl siloxane	Highest and lowest temperature resistance	-60° +200°
STEAM SILICONE			Steam water	-60° +140°

Orientation information provided by rubber suppliers

Final performance on the rubber will depend on media composition.

NUMEROUS COMBINATIONS TO COVER ALL YOUR APPLICATIONS

OPERATING SYSTEM

- └ Lever
- └ Gear box 1/4 tour
- └ Slider crank gearbox (skg)
- └ Double acting pneumatic actuator
- └ Double acting pneumatic actuator (manual emergency)
- └ Single acting pneumatic actuator
- └ Single acting pneumatic actuator (manual emergency)
- └ Electric actuator 1/4 tour
- └ Elect. Actuator multi-tour + gear box

ACTUATOR OPTIONS

- └ Positions indicator
- └ Position indicator « Namur »
- └ Positioner
- └ Chainwheel
- └ Extensions
- └ Solenoid valve

SHAFT

- └ AISI 420
- └ AISI 316
- └ AISI 316L
- └ Duplex

DISC MATERIAL

- └ GJS 400-15
- └ GJS 400-15 + Halar® coating
- └ CF 8M (AISI 316)
- └ CF 8M (AISI 316) polished
- └ CF 3M (AISI 316 L)
- └ Duplex ASTM A 890 Gr 5A / 6A
- └ Uranus® B6
- └ Hastelloy® C276
- └ AISI 904L
- └ Aluminium Bronze

LINER MATERIAL

- └ EPDM
- └ EPDM (Heat temperature)
- └ NBR
- └ NBR carboxilic
- └ FDM (VITON®)
- └ SILICON
- └ Steam SILICON

INSTALLATION

- └ EN 1092 PN6/10/16,
- └ ANSI-150,
- └ BS Table E/D,
- └ JIS 5K/10K

