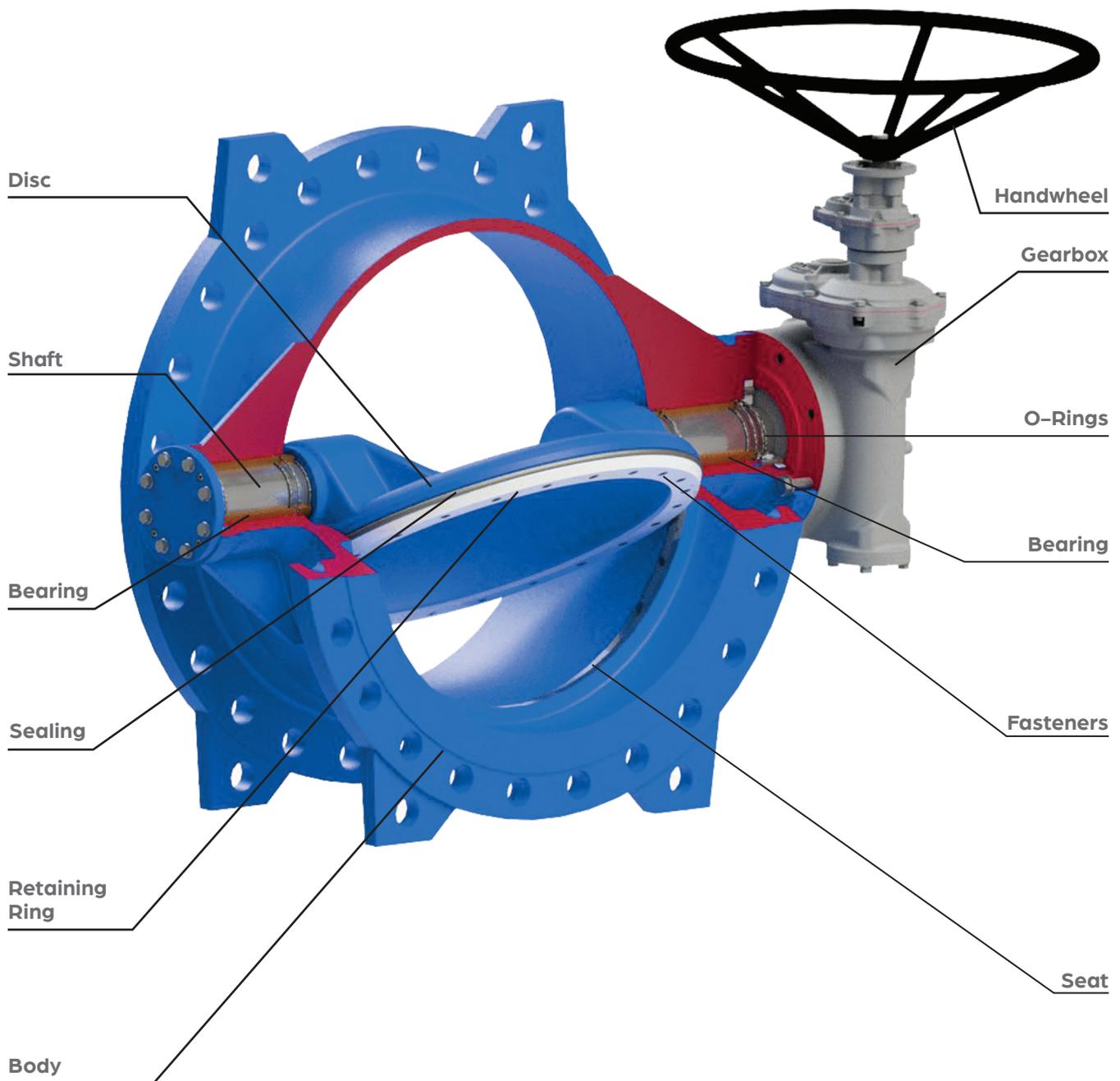


## BUTTERFLY VALVE





CTV Armaturen & Penstocks GmbH

**EN 558 SERIES 14  
(DIN 3202 – F4)  
DOUBLE ECCENTRIC**



**Available Pressures**

- PN 10
- PN 16
- PN 25
- PN 40
- ANSI at request

**Paint:**

DN100-1800 -- Electrostatic Fusion Bonded Powder Epoxy Blue  
DN2000-2600 -- Two Pack Liquid Epoxy Blue

Parts	Main Materials	Optional Materials
Body Disc Gearbox	Ductile Iron	Carbon Steel Stainless Steel Nickel Aluminium Bronze
Shaft	X20Cr13	Monel Duplex Stainless Steel
Bearings	Bronze	PTFE
Seat	SS Alloy Weld Overlay	
Retaining Ring	SS 304	SS 316, SS 316L, St 37
Seals	EPDM	NBR
Fasteners	SS 304	SS 316, SS 316L
Handwheel	Steel	
NOTES	<p>Different Flange Drillings are available such as ISO, EN, ANSI etc.</p> <p>Standard Operating Temperature is -10°C to +80°C.</p> <p>All RAL Colors are available.</p> <p>Potable Water Certified Coating is available.</p> <p>Thermoset and Thermoplastic Coatings are available.</p> <p>CTV welcomes you for any other options and designs.</p>	

# EN 558 SERIES 14 (DIN 3202 – F4) DOUBLE ECCENTRIC



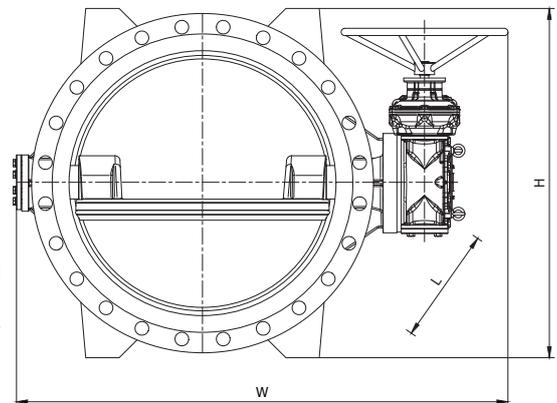
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## APPLICATION

CTV Butterfly Valves are used for isolation purposes and provide drip tight sealing once they are closed. When open, the disc rotates to horizontal position, thereby allowing free flow. CTV Butterfly Valves are not suitable for regulation purposes.

## FEATURES

- Closed end disc design & shaft sealing system provides corrosion-free operation.
- High Kv & low head loss thanks to CFD perfected disc design.
- Actuators are available upon request.
- Double eccentric design & robust worm gearbox provide low operating torque values.
- Suitable for above or underground installations with handwheel, fixed or telescopic extension spindle and surface box accessories.
- Optional disc locking mechanism is available upon request, allowing gearbox replacement under pressure.
- A, B, C and D Configurations are available upon request for different gearbox positions and disc opening directions.
- Imbus Retaining Ring Fasteners are totally sunk on the Retaining Ring and are out of the way of the water flow.



## DOUBLE ECCENTRIC DESIGN – DURABILITY AND LOW TORQUE VALUES

CTV Butterfly Valves are in Double Eccentric design. The disc is positioned in the body with two eccentricity. First eccentricity moves the disc sealing axis away from the disc/shaft rotating axis. As a result, body sealing surface and disc sealing gasket matches perfectly, providing drip tight sealing. Second eccentricity moves the disc axis away from the body axis. Therefore, even with a small degree of rotation, sealing gasket moves away from the body surface. As a result, during valve opening/closing; friction is very low, preventing deformation of the gasket and enabling low operating torque values.

## POLISHED STAINLESS STEEL WELD OVERLAY BODY SEAT – MADE TO OPERATE FOR DECADES

Stainless steel sealing surface of the valve is fitted to the body by weld overlay. Welding is done by special Automated Welding Robot, surface is polished to provide seamless surface and checked by penetration testing. As a result of this process, wear resistance of the seat is maximized, where sealing material cannot be removed from the body. Furthermore corrosion resistance is increased, since there are no uncoated threads on the body.

		DIMENSIONS (mm)									
DN	L	W			H			Weight (kg)			
		PN10/16	PN25	PN40	PN10/16	PN25	PN40	PN10	PN16	PN25	PN40
100	190	442	464	464	230	246	246	30	30	32	32
125	200	477	477	477	260	280	280	32	32	44	44
150	210	504	504	504	296	312	312	38	38	49	49
200	230	554	554	612	350	370	400	54	54	65	75
250	250	656	759	756	416	448	470	75	75	128	128
300	270	713	836	833	470	500	540	95	95	130	155
350	290	823	887	880	530	578	600	135	135	194	240
400	310	877	986	986	590	644	680	170	170	235	305
450	330	945	1038	1134	660	700	705	228	228	258	421
500	350	1010	1177	1207	730	760	780	300	340	405	510
600	390	1153	1299	1336	860	880	910	340	410	550	679
700	430	1334	1437	1534	940	990	1025	574	574	791	1380
800	470	1469	1587	1726	1060	1120	1170	645	730	1010	1445
900	510	1590	1749	1891	1160	1220	1280	1020	1010	1378	1980
1000	550	1754	1897	-	1290	1356	-	1085	1235	1710	-
1100	590	1878	-	-	1390	-	-	1500	1500	-	-
1200	630	1967	2122	-	1520	1560	-	1940	2040	2425	-
1300	670	2210	-	-	1620	-	-	2580	2580	-	-
1400	710	2251	2476	-	1720	1790	-	2740	2840	3700	-
1500	750	2370	2870	2884	1820	1900	1940	2944	2944	5500	5900
1600	790	2522	-	-	1960	-	-	3740	3900	-	-
1800	870	3108	-	-	2150	-	-	5140	5340	-	-
2000	950	3378	3508	-	2360	2460	-	6435	7275	9500	-
2200	1030	3628	-	-	2590	-	-	8650	9820	-	-
2400	1110	3920	-	-	2790	-	-	10970	-	-	-
2600	900	4148	-	-	3000	-	-	13200	-	-	-

CTV Butterfly Valves have divided two-piece shaft that is guiding the disc. One of these shafts transfers the gearbox rotation force to the disc. In case of an operation of the gearbox, the shaft rotates in its axis and moves the attached disc to open or close the valve. The second shaft is used to guide the disc to the body of the valve. Friction of guiding is lowered by the bronze bearings on the body. CTV Butterfly Valves have Closed End Disc Design, and shaft bearing system is isolated from the medium by o-rings. As a result, high corrosion resistance and durability is achieved.

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