

Nº BH-009/BV-2

**BUTTERFLY VALVE
DN200-1800**

Double Eccentric Butterfly Valve 2 offset, bi-directional sealing (BH-009/BV-2)

Description:

Double eccentric butterfly valve is a shut-off bidirectional valve with a double offset of the disc. The disc seal ring is completely unstressed when the valve is in open position.

Features:

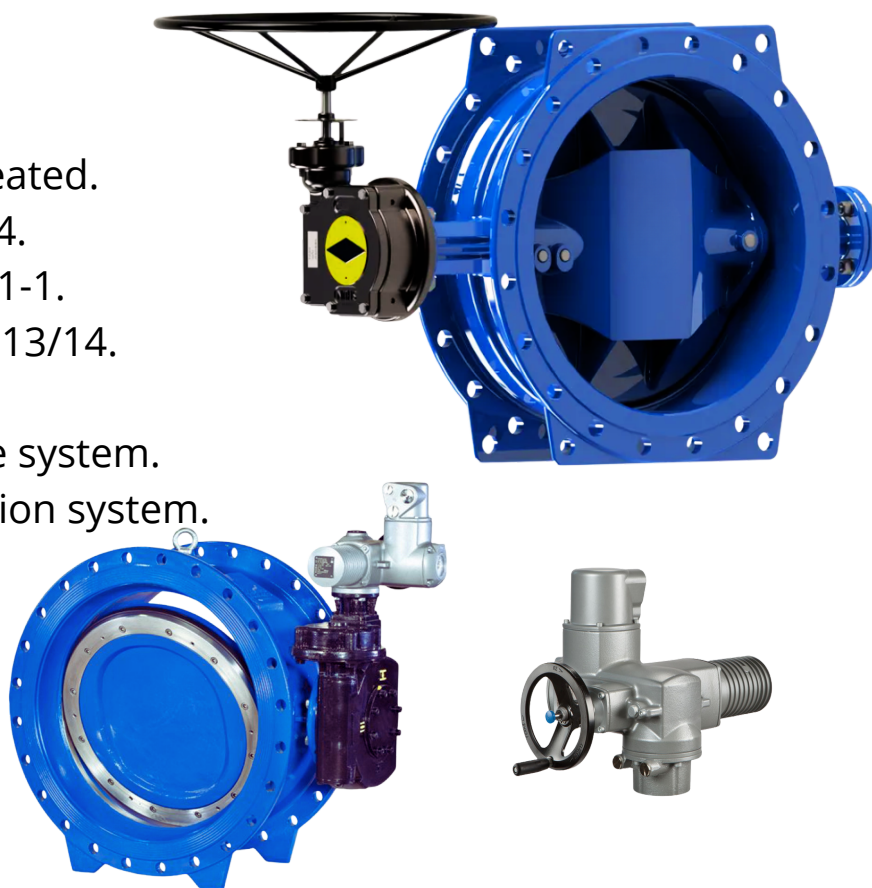
Disc seat with high quality rubber, regains original shape. 100% sealing - self-adjusting elastomer seat attached to disc and retaining ring. Bi-directional flow sealing. SS retaining ring fastened with A2-70 screws and extra dowel pins. Reduced sensitivity for cavitation. Less contact area of disc seal when closing, and less stress during the opening disc. Complete tightness - self-adjusting elastomer seat attached to the disc and the retaining ring. Easy maintenance and handling.

Standards:

- 100% tested to EN 12266-1.
- Confirm to EN593 resilient seated.
- Flanges to EN-1092/2, BS4504.
- EPDM disc seat ring to EN 681-1.
- Face to face: EN558-1, series 13/14.

Applications:

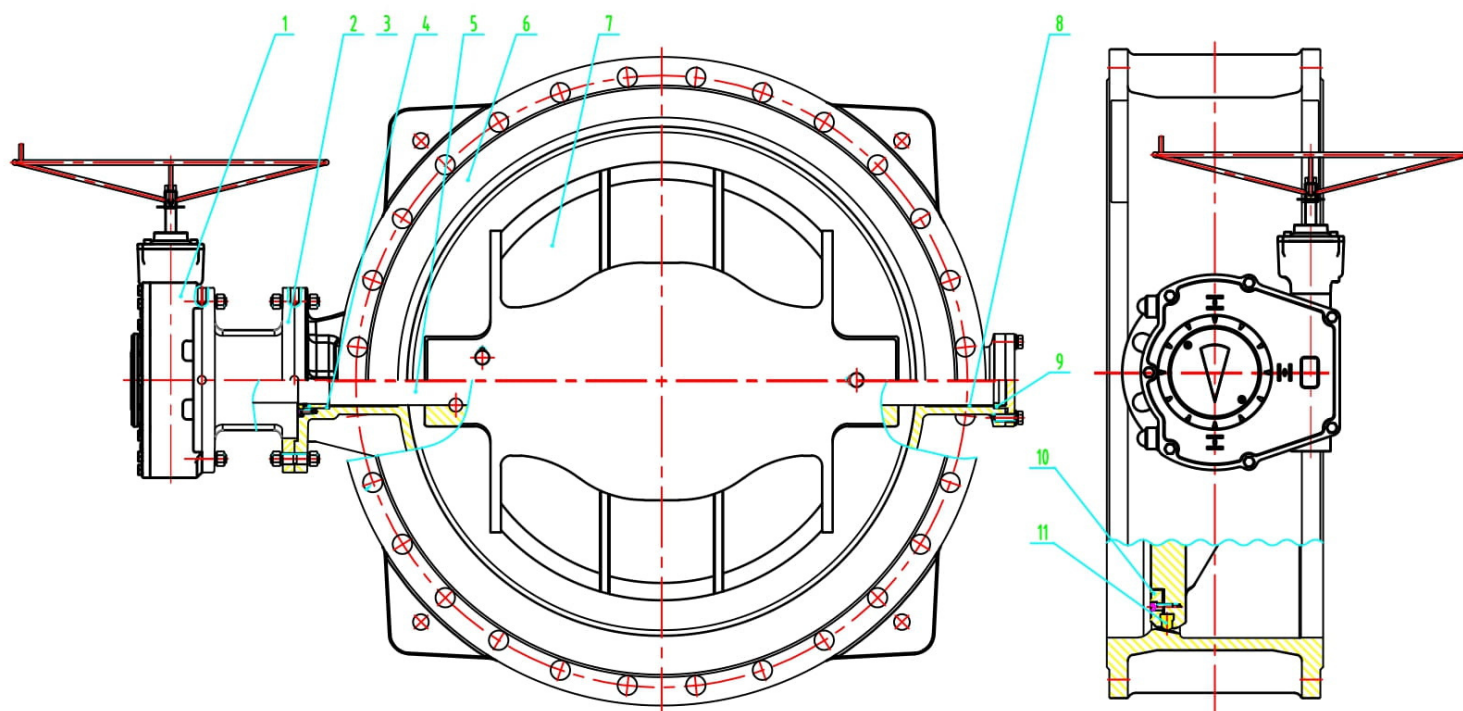
- Water and neutral liquid pipe system.
- Water distribution/transmission system.
- Cooling water system.
- Industrial waste water.
- Filtering system.



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MATERIAL LIST



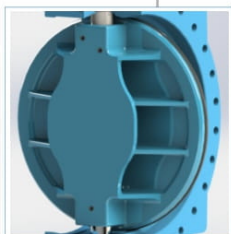
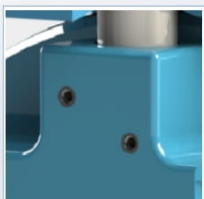
No.	Component	Standard Material	Note
1	Manual gearbox	assembly set	
2	Neck flange	ductile cast iron GJS 500-7	
3	Sealing sleeve	CuZn39Pb1 Brass	
4	X Ring	NBR	
5	Stem	stainless steel AISI 420	
6	Body	ductile cast iron GJS 500-7	
7	Disc	ductile cast iron GJS 500-7	
8	Bearing	stainless steel SF-1S	
9	Split snap ring	ZCuZn25Al6Fe6Mn6	
10	Sealing ring plate	stainless steel	
11	Disc seat ring	EPDM	

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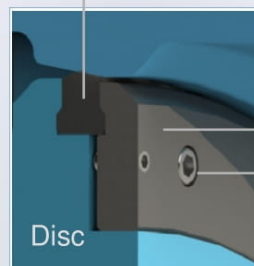
DESIGN FEATURES

- **Disc-Stem connection**
 - high stem strength
 - high connection reliability



- **DISC: Arch shape (flow-efficient design)**
 - provide larger flow area
 - stable flow state
 - minimized head loss
 - low energy consumption

Disc sealing ring



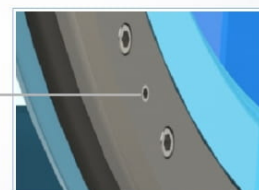
Retaining Ring

Fastening screw

Disc

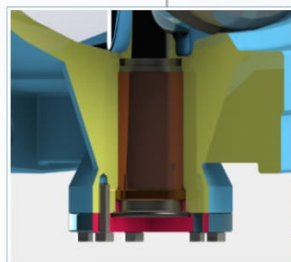


Body Seat
well welded
low friction
low operating torque



extra locking PINs between fastening screws make sure stable fastening of retaining ring, after long period working, sealing ring can be restored by fastening screws and locking PINs

- **self-lubricating bearings**
 - minimize static friction coefficient
 - get low operating torque

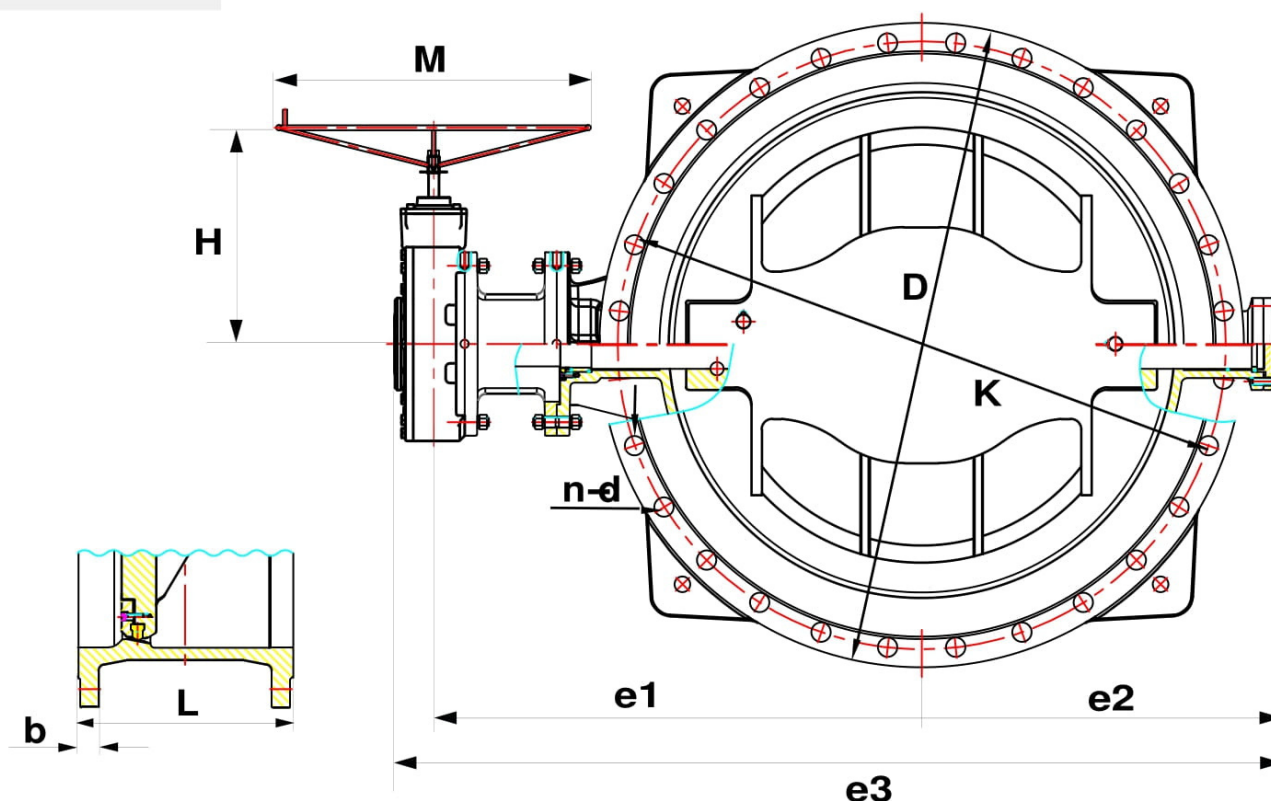


Tail-opening ring is used as a plane bearing to bear the axial force of the stem. Valve can be mounted horizontally or vertically.

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DIMENSIONS



SIZE	Outline dimensions						Flange dimensions EN1092 (mm)							
							PN10				PN16			
DN	L	H	e1	e2	e3	M	D	K	b	n-φ	D	K	b	n-φ
DN200	230	225	314	174	524	300	340	295	20	8-φ23	340	295	20	12-φ23
DN250	250	275	354	200	603	400	405	350	22	12-φ23	405	355	22	12-φ28
DN300	270	275	388	258	695	500	445	400	24.5	12-φ23	460	410	24.5	12-φ28
DN350	290	305	446	292	790	500	505	460	24.5	16-φ23	520	470	25.5	16-φ28
DN400	310	304	522	331	910	600	565	515	24.5	16-φ28	580	525	28.0	16-φ31
DN450	330	305	535	365	953	600	615	565	25.5	20-φ28	640	585	30.0	20-φ31
DN500	350	305	566	405	1028	600	670	620	26.5	20-φ28	715	650	31.5	20-φ34
DN600	390	382	662	468	1195	500	780	725	30	20-φ31	840	770	36.0	20-φ37
DN700	430	382	627	520	1212	500	895	840	32.5	24-φ31	910	840	39.5	24-φ37
DN800	470	403	680	583	1338	600	1015	950	35	24-φ34	1025	950	43.0	24-φ40
DN900	510	435	725	635	1435	600	1115	1050	37.5	28-φ34	1125	1050	46.5	28-φ40
DN1000	550	570	826	695	1620	600	1230	1160	40	28-φ37	1255	1170	50.0	28-φ43
DN1200	630	600	972	820	1910	700	1455	1380	45	32-φ40	1485	1390	57.0	32-φ49
DN1400	710	620	1140	928	2140	700	1675	1590	46	36-φ43	1685	1590	60.0	36-φ49
DN1600	790	665	1270	1050	2410	700	1915	1820	49	40-φ49	1930	1820	65.0	40-φ56
DN1800	870	720	1410	1175	2680	700	2130	2020	70	44-φ49	2130	2020	70.0	44-φ56