DOUBLE EXCENTRIC BUTTERFLY VALVE TYPE TECWAT

Tecofi
VALVE MANUFACTURER - FRANCE

TECHNICAL PASSPORT

PN10 FLANGED DOUBLE EXCENTRIC BUTTERFLY VALVE WITH IP67 GEAR BOX AND SQUARE

VP 4208-051

APPLICATION

Tecwat type butterfly valves are intended to be used for ON/OFF operations in fluid transfer circuits.

Area of use: water networks, production plants, pumping stations, fire circuits on industrial site, etc.

Fluids: water, drinking water.



ACS

DRY SHAFT

GENERAL CHARACTERISTICS

TECWAT model: long pattern.

-Design according to NF EN 595.
-Range : from DN100 to DN2000.
-Bi-directional sealing with a preferred mounting direction indicated by the arrow on the body.
-Pinned stem/disc connection.
-Double eccentric butterfly valve prevents wear due to the stainless steel seat attached to the body.
-Seal on disc retained by a stainless steel retaining ring.
-Optimized maneuvering torque.
-Low pressure drop.
-Operating by IP67 gear box.
-Equipped with an ISO 5210 actuator mounting plate.
-Clockwise closing

STANDARDS

Design	Complies with standard EN 593
Face to face	Face to face according to standard NF EN 558 series 14.
Connection	ISO PN10 flange mounting according to standard EN1092-2.
Tests	Hydraulic tests carried out according to the standard EN12266-1: -Body : 15 bar -Seat : 11 bar

PRODUCT APPROVALS

Certificat WRAS n° 1607394

EAC WRAS APPROVED PRODUCT

EN 1074

Health compliance certificate n° 19 ACC LY 582

ACS

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Tecofi France
83 rue Marcel Mérieux - 69960 Corbas
Tél. +33 (0)4 72 79 05 79 - Fax. +33 (0)4 78 90 19 19
E-mail : sales@tecofi.fr - **www.tecofi.fr**

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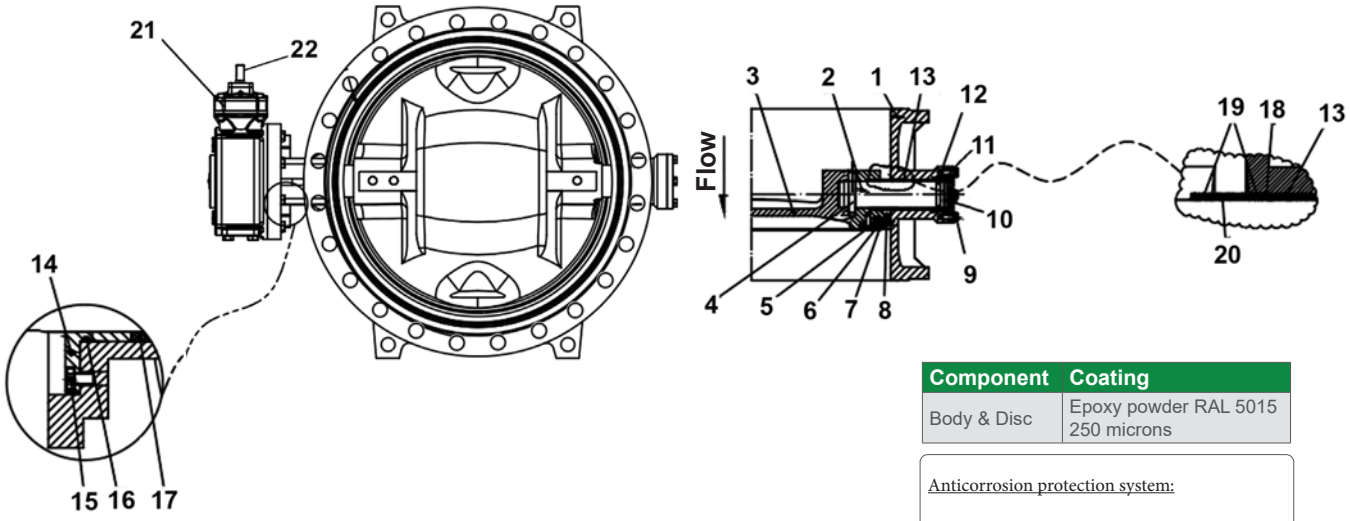
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CONSTRUCTION



Component	Coating
Body & Disc	Epoxy powder RAL 5015 250 microns

Anticorrosion protection system:

The valve body and disc are coated with a paint system corresponding to a C5 – Medium durability (C5M) classification, in accordance with the principles of NF EN ISO 12944.

Pos.	Description	Material	Equivalences		
			DIN	ASTM	BS
1	Body	Ductile iron ENGJS-500-7	GGG 50	ASTM 80-55-06	BS 500/7
2	Shaft	Stainless steel 420	1.4021	AISI 420	420 S 37
3	Disc	Ductile iron ENGJS-500-7	GGG 50	ASTM 80-55-06	BS 500/7
4	Pin	Stainless steel 420	1.4021	AISI 420	420 S 37
5	Bolt	Stainless steel X5CrNi 18 10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
6	Retaining ring	Stainless steel X5CrNi 18 10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
7	Disc seal	EPDM			
8	Body seal	Stainless steel X5CrNi 18 10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
9	Rear cover bolt	Stainless steel X5CrNi 18 10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
10	Rear cover	Ductile iron ENGJS-500-7	GGG 50	ASTM 80-55-06	BS 500/7
11	Rear cover seal	NBR			
12	Stop gasket	Stainless steel X5CrNi 18 10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
13	Shaft bush	Al-Bronze	G-CuAl10Fe	C95200	ZCuAl10Fe3
14	Gland packing	Ductile iron ENGJS-500-7	GGG 50	ASTM 80-55-06	BS 500/7
15	Gland bolt	Stainless steel X5CrNi 18 10	X5CrNi 18 10	A 182 AISI 304	1449-2 304 S15
16	Rear cover seal	NBR			
17	Shaft bush	Al-Bronze	G-CuAl10Fe	C95200	ZCuAl10Fe3
18	O ring	EPDM			
19	O ring	EPDM			
20	Sealing sleeve	Al-Bronze	G-CuAl10Fe	C95200	ZCuAl10Fe3
21	Gear box	Ductile iron ENGJS-500-7	GGG 50	ASTM 80-55-06	BS 500/7
22	Square	Stainless steel			

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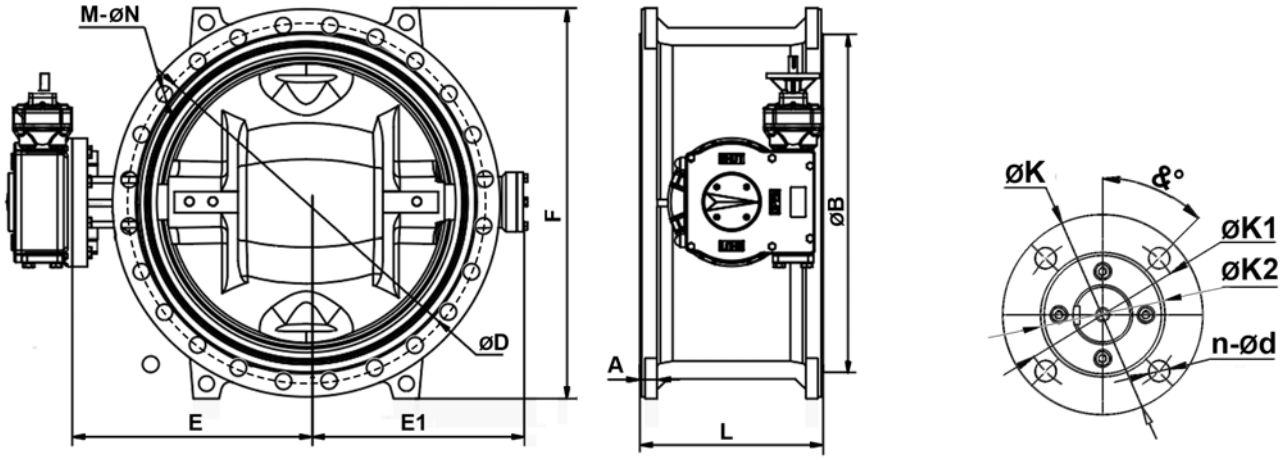
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DIMENSIONS



DN		ØD	A	L	M-ØN	E	E1	F	ØB	ISO 5211	ØK	ØK1	ØK2	&°	n-Ød	Nbr	Torque* Nm	Weight (kg)
mm	inch																	
100	4"	180	19	190	8-Ø19	168	120	250	156	F07	90	70	55	45°	4-Ø10	7,3	8,0	20,0
125	5"	210	19	200	8-Ø19	185	137	260	184	F10	125	102	70	45°	4-Ø12	9,3	20,7	24,0
150	6"	240	20	210	8-Ø23	195	155	310	211	F10	125	102	70	45°	4-Ø12	9,3	20,7	31,0
200	8"	295	20	230	8-Ø23	235	190	350	266	F10	125	102	70	45°	4-Ø12	9,3	20,3	46,6
250	10"	350	22	250	12-Ø23	275	218	405	319	F12	150	125	85	45°	4-Ø14	9,5	51,0	61,3
300	12"	400	24.5	270	12-Ø23	290	270	460	370	F14	175	140	100	45°	4-Ø18	10,0	45,8	107,0
350	14"	460	24.5	290	16-Ø23	340	295	530	429	F14	175	140	100	45°	4-Ø18	34,0	34,1	133,8
400	16"	515	24.5	310	16-Ø28	370	320	590	480	F14	175	140	100	45°	4-Ø18	40,0	42,5	175,0
450	18"	565	25.5	330	20-Ø28	400	343	650	530	F14	175	140	100	45°	4-Ø18	46,8	43,9	210,0
500	20"	620	26.5	350	20-Ø28	430	375	735	582	F16	210	165	130	45°	4-Ø22	63,8	42,0	240,3
600	24"	725	30	390	20-Ø31	505	455	855	682	F16	210	165	130	45°	4-Ø22	54,3	69,1	351,3
700	28"	840	32.5	430	24-Ø31	550	510	920	794	F25	300	254	200	22.5°	8-Ø18	78,0	80,6	455,8
800	32"	950	35	470	24-Ø34	624	570	1045	901	F25	300	254	200	22.5°	8-Ø18	88,5	81,5	609,8
900	36"	1050	37.5	510	28-Ø34	685	625	1145	1001	F25	300	254	200	22.5°	8-Ø18	154,3	75,2	880,0
1000	40"	1160	40	550	28-Ø37	765	700	1275	1112	F25	300	254	200	22.5°	8-Ø18	154,3	92,2	1082,0
1100	44"	1270	42.5	590	32-Ø37	795	735	1375	1218	F30	350	298	230	22.5°	8-Ø22	216,5	90,7	
1200	48"	1380	45	630	32-Ø41	878	804	1480	1328	F30	350	298	230	22.5°	8-Ø22	216,5	92,4	1601,0
1400	56"	1590	46	710	36-Ø44	1045	950	1715	1530	F35	415	356	260	22.5°	8-Ø32	387,5	88,5	
1500	60"	1700	46	750	36-Ø44	1100	1000	1850	1640	F35	415	356	260	22.5°	8-Ø32	363,3	94,4	
1600	64"	1820	49	790	40-Ø50	1155	1095	1955	1750	F40	475	406	300	22.5°	8-Ø40	594,5	97,3	
1800	72"	2020	52	870	44-Ø50	1280	1190	2155	1950	F40	475	406	300	22.5°	8-Ø40	784,5	91,0	
2000	80"	2230	55	950	48-Ø50	1440	1330	2375	2150	F48	560	483	370	15°	12-Ø40	905,3	110,5	

* Values without safety factor

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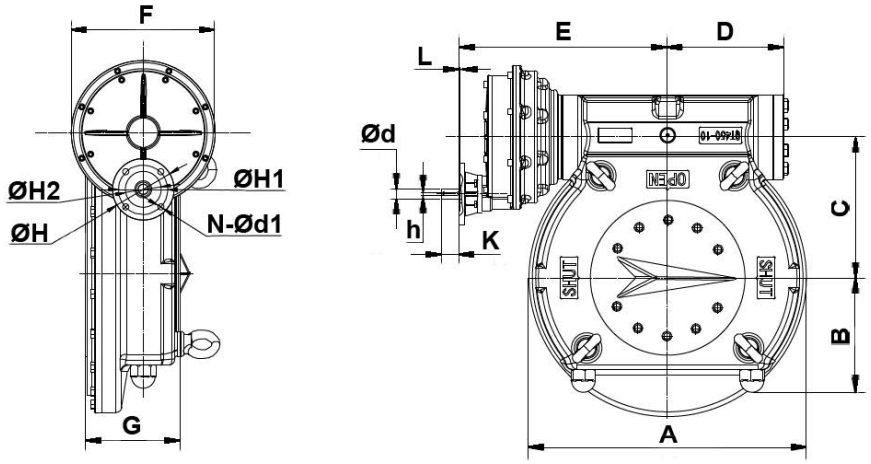
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GEAR BOX DIMENSIONS



DN	A	B	C	D	E	F	G	h	ød	K	L	øH	øH1	øH2	N-ød1
DN100	90	52	44	38	70	-	63	6	20	45	3	125	102	70	4-ø12
DN125-DN200	125	65	52	49	89.5	-	67.5	6	20	45	3	125	102	70	4-ø12
DN250	150	74	62	57.5	114.5	-	70.5	6	20	45	3	125	102	70	4-ø12
DN300	175	89	79	67	124	-	95	6	20	45	3	125	102	70	4-ø12
DN350	175	89	79	67	230	105	95	6	20	45	3	125	102	70	4-ø12
DN400	175	99	89	78	241	105	99	6	20	45	3	125	102	70	4-ø12
DN450	197	102	101	78	241	105	100	6	20	45	3	125	102	70	4-ø12
DN500-DN600	225	112	112	98	261	105	117.5	6	20	45	3	125	102	70	4-ø12
DN700	300	137	129	110	289	138	124	6	20	45	3	125	102	70	4-ø12
DN800	300	134	145	142	303	138	152.5	6	20	45	3	125	102	70	4-ø12
DN900	310	148.8	157	148	330	160	150	6	20	45	3	125	102	70	4-ø12
DN1000	392	161.8	182	180	366	160	165	6	20	45	3	125	102	70	4-ø12
DN1200	392	164	180	179	380	186	183.5	6	20	45	3	125	102	70	4-ø12
DN1400	466	196.5	230	203	434	292	188.5	6	20	45	3	125	102	70	4-ø12
DN1500	543	220.6	248.5	240	464	292	196	6	20	45	3	125	102	70	4-ø12

WORKING CONDITIONS

Maximum working pressure : 10 bar.
Maximum working temperature : + 80 °C.

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