

DOUBLE EXCENTRIC BUTTERFLY VALVE TYPE TECWAT

TECHNICAL PASSPORT

PN16 FLANGED DOUBLE EXCENTRIC BUTTERFLY VALVE WITH IP67 GEAR BOX AND HANDWHEEL

VP 4248-08EP

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.

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.
- Asymmetric sealing pressure depending on the installation direction
- 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



ACS

DRY SHAFT

STANDARDS

Design	Complies with standard EN 593	
Face to face	Face to face according to standard NF EN 558 series 14.	
Connection	ISO PN16 flange mounting according to standard EN1092-2.	
Tests	Hydraulic tests carried out according to the standard EN12266-1:	
	Preferred mounting direction -Body : 24 bar -Seat : 17.6 bar	Reverse direction -Body : 24 bar -Seat : 11.2 bar

PRODUCT APPROVALS

Certificat WRAS n° 1607394

Health compliance certificate n° 19 ACC LY 582



EN 1074

ACS

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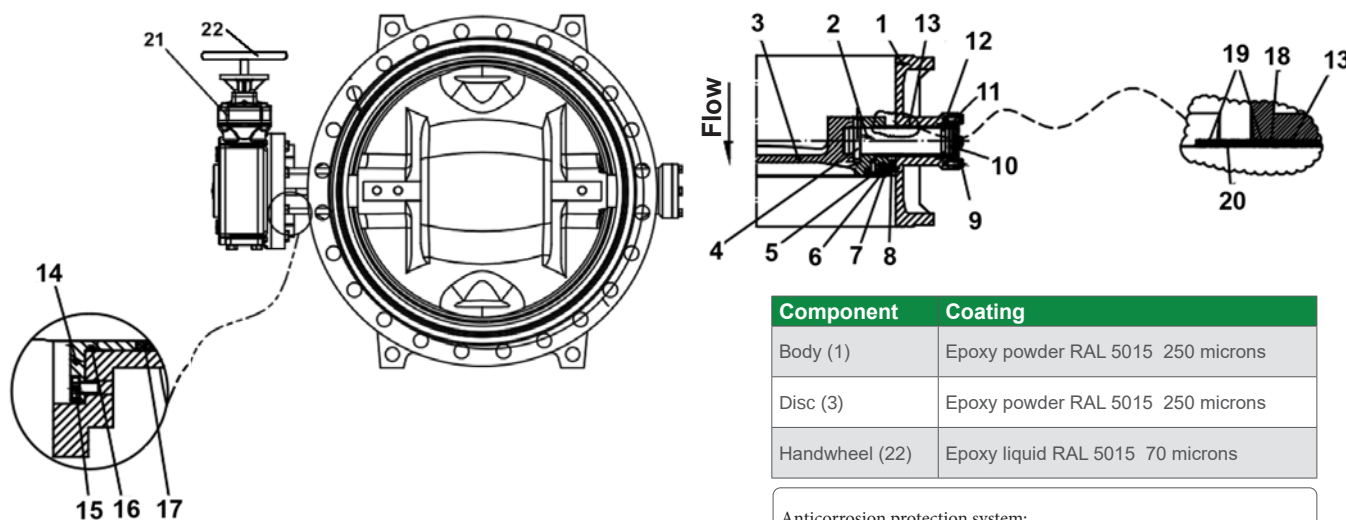


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CONSTRUCTION



Component	Coating
Body (1)	Epoxy powder RAL 5015 250 microns
Disc (3)	Epoxy powder RAL 5015 250 microns
Handwheel (22)	Epoxy liquid RAL 5015 70 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 EN GJS-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 EN GJS-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 EN GJS-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 EN GJS-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 EN GJS-500-7	GGG 50	ASTM 80-55-06	BS 500/7
22	Handwheel	Steel	S235JR	ASTM A36, A283C	UNS K02502

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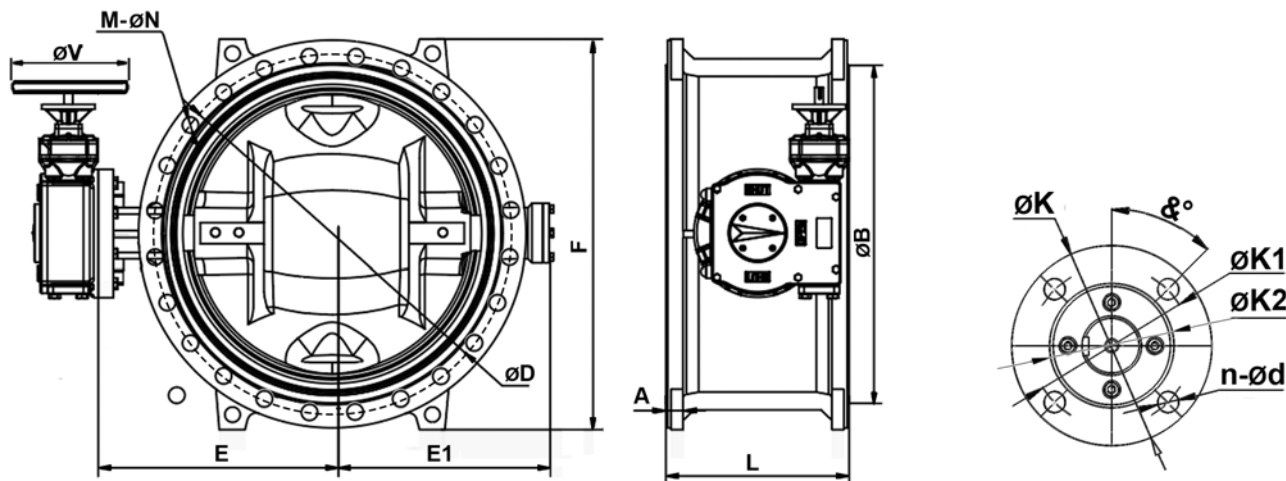


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DIMENSIONS



DN		ØD	A	L	M-ØN	E	E1	F	ØB	ISO 5211	ØK	ØK1	ØK2	&°	n-Ød	Nbr	Torque* Nm	ØV	Weight (kg)
mm	inch																		
100	4"	180	19	190	8-Ø19	168	120	250	156	F07	90	70	55	45°	4-Ø10	7,3	23,0	200	23
125	5"	210	19	200	8-Ø19	185	137	260	184	F10	125	102	70	45°	4-Ø12	9,3	20,7	200	28
150	6"	240	19	210	8-Ø23	195	155	310	211	F10	125	102	70	45°	4-Ø12	9,3	20,7	200	31
200	8"	295	20	230	12-Ø23	235	190	350	266	F10	125	102	70	45°	4-Ø12	9,3	35,1	200	52
250	10"	355	22	250	12-Ø28	275	218	405	319	F12	150	125	85	45°	4-Ø14	9,5	57,0	200	90
300	12"	410	24.5	270	12-Ø28	290	270	460	370	F14	175	140	100	45°	4-Ø18	10,0	75,8	200	103
350	14"	470	26.5	290	16-Ø28	340	295	530	429	F14	175	140	100	45°	4-Ø18	34,0	34,1	300	153
400	16"	525	28	310	16-Ø31	370	320	590	480	F14	175	140	100	45°	4-Ø18	40,0	42,5	300	178
450	18"	585	30	330	20-Ø31	400	343	650	548	F14	175	140	100	45°	4-Ø18	46,8	43,9	300	245
500	20"	650	34.5	350	20-Ø34	430	375	735	609	F16	210	165	130	45°	4-Ø22	54,3	60,9	400	316
600	24"	770	36	390	20-Ø37	505	455	855	720	F16	210	165	130	45°	4-Ø22	60,5	71,3	400	442
700	28"	840	39.5	430	24-Ø37	550	510	920	794	F25	300	254	200	22.5°	8-Ø18	98,8	79,6	500	613
800	32"	950	43	470	24-Ø41	624	570	1045	901	F25	300	254	200	22.5°	8-Ø18	154,3	58,5	500	808
900	36"	1050	46.5	510	28-Ø41	685	625	1145	1001	F30	350	298	230	22.5°	8-Ø18	154,3	85,7	500	1130
1000	40"	1170	50	550	28-Ø44	765	700	1275	1112	F30	350	298	230	22.5°	8-Ø18	198,5	89,5	500	1404
1100	44"	1270	53.5	590	32-Ø44	795	735	1375	1218	F30	350	298	230	22.5°	8-Ø22	255,0	94,5	600	2229
1200	48"	1390	57	630	32-Ø50	878	804	1480	1328	F30	350	298	230	22.5°	8-Ø22	255,0	87,5	600	2308
1400	56"	1590	60	710	36-Ø50	1045	950	1715	1530	F35	415	356	260	22.5°	8-Ø32	435,3	92,3	600	3735
1500	60"	1710	62.5	750	36-Ø57	1100	1000	1850	1640	F35	415	356	260	22.5°	8-Ø32	435,3	97,4	600	3389
1600	64"	1820	65	790	40-Ø57	1155	1095	1955	1750	F40	475	406	300	22.5°	8-Ø40	414,5	174,5	600	4459
1800	72"	2020	70	870	44-Ø57	1280	1190	2155	1950	F40	475	406	300	22.5°	8-Ø40	692,3	129,0	600	-
2000	80"	2230	75	950	48-Ø62	1440	1330	2375	2150	F48	560	483	370	15°	12-Ø40	480,5	260,1	600	-

* Values without safety factor

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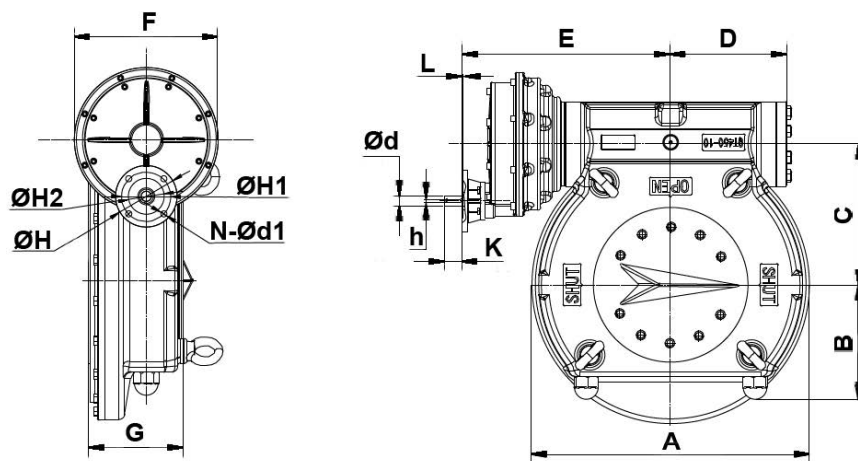


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GEAR BOX DIMENSIONS



PN16	A	B	C	D	E	F	G	h	Ød	K	L	ØH	ØH1	ØH2	N-Ød1
DN100	90	52	44	38	70	-	63	4	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	225	112	112	98	261	105	117.5	6	20	45	3	125	102	70	4-Ø12
DN600	260	122	124	98	261	105	114	6	20	45	3	125	102	70	4-Ø12
DN700	300	134	145	142	303	138	152.5	6	20	45	3	125	102	70	4-Ø12
DN800	310	148.8	157	148	334	160	150	6	20	45	3	125	102	70	4-Ø12
DN900	392	161.8	182	180	366	160	165	6	20	45	3	125	102	70	4-Ø12
DN1000	405	146.5	200	191	397	210	196	6	20	45	3	125	102	70	4-Ø12
DN1200	442	196.5	222	207	423.5	267	193	6	20	45	3	125	102	70	4-Ø12
DN1400-DN1500	543	220.6	248.5	240	464	292	196	6	20	45	3	125	102	70	4-Ø12

WORKING CONDITIONS

Maximum working pressure : 16 bar.
Maximum working temperature : +80 °C.

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