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VALUE

Value Valves

VF-264 SERIES

AWWA Double Flanged Type Butterfly Valves

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AWWA Double Flanged Type Butterfly Valve

FEATURES AND BENEFITS

- VF-264 Flanged butterfly valve is designed and manufactured as per AWWA C504 (14”-72”) and C516 (78” – 104”) short type.
- The valve design is based on a double eccentric geometry of the disc rotating center. It allows a 360° continuous sealing between body seat and disc seat.
- As the disc with double eccentric design the disc seat will leave from the body seat after the valve slightly open. It offers a long life service.

- The body and disc could be hard rubber lined as customer's request to prevent corrosion from seawater. The rubber liner is tested by 20,000VDC of holiday test to make sure there is no pin hole exist

- The valve sizes 30" and up the seat ring could be replaced without remove the valve from pipeline.

- Bi-direction tight shut off.

SPECIFICATIONS

- Designed and Manufactured:
  AWWA C504 (14" - 72") (350mm - 1800mm)
  AWWA C516 (78" - 104")(2000mm - 2600mm)
- Sizes: 14" – 104" (350mm – 2600mm)
- Temperature range: -20˚C - 120˚C (-4 ˚F - 248 ˚F)
- Pressure rating: AWWA Pressure Classes 25B、75B & 150B

* For any other special offers, please contact Value Valves.

VALUE VALVES

OPTIONS

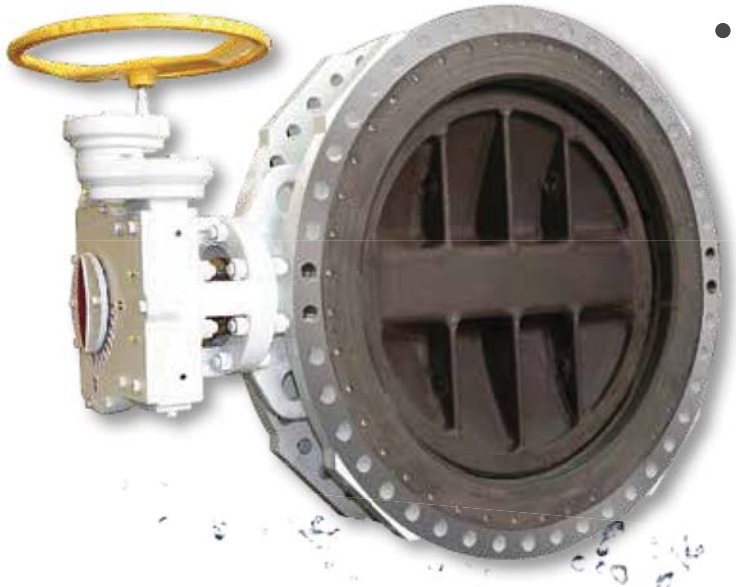
- Floor stands
- Lantern glands
- Mechanical shaft locking devices
- Hard rubber lining Body & Disc.
- Extension stem.
- Extension gearbox shaft.

*Other requirements please consult to Value Valves Co., Ltd.

APPLICATIONS

- Water works
- Water treatment
- Seawater
- Exhaust
- Condensate of power plan

APPLICABLE STANDARDS



- Body style: Flange Type
- Body shell thickness: AWWA C504, C516
- Mounting: ISO5211
- Design & Pressure：AWWA C504, C516
- Face to Face：AWWA C504, C516
- Inspection and Testing: AWWA C504, C516
- Standard Marketing System: MSS-SP-25

(Other flange connection please contacts with Value Valves Co., Ltd.)

*Technical information is only for reference. Value Valves Co., Ltd. reserves the right to change without previous notice.

TORQUE CHART (Nm)

SIZE		TORQUE CHART (Nm)			
mm	inch	3kg/cm2	4.5kg/cm2	7.5kg/cm2	10kg/cm2
350	14	325	330	625	890
400	16	475	490	875	1340
450	18	650	675	1200	1825
500	20	850	950	1725	2425
600	24	1450	1625	2675	3950
700	28	2125	2525	4125	6025
750	30	2450	2890	4730	6890
800	32	3175	3780	6025	8690
900	36	4550	5410	8425	12050
1000	40	6025	7310	11500	16275
1050	42	6650	8060	12675	17940
1100	44	8075	9800	15100	21950
1200	48	10200	12550	19500	28125
1350	54	14325	17840	26775	39300
1500	60	19975	24600	36660	53210
1650	66	24200	29770	44360	64375
1800	72	28800	35430	52790	76625
2000	78	35560	43740	65175	94590
2200	88	43030	52925	78850	114450
2400	96	51225	62975	93825	136200
2600	104	60125	73925	110125	159875

To Use The Torque Chart, Note The Following:

1. Seating/Unseating torque values above included friction bearing torque for stated ΔP.
2. Do not apply a safety factor to above torque values when determining actuator output torque requirement.

CV FLOW COFFICIENT

Size		Degree of disc rotation(°)								
mm	inch	10°	20°	30°	40°	50°	60°	70°	80°	90°
350	14	145	386	681	1115	1672	2444	3482	4378	4546
400	16	197	540	952	1561	2333	3345	4863	6090	6347
450	18	261	703	1243	1942	3019	4546	6347	7960	8320
500	20	347	943	1668	2744	4117	6004	8492	10627	11065
600	24	523	1415	2509	4091	6261	9178	12780	15869	16555
700	28	721	1947	3456	5575	8577	12609	17627	21959	22902
750	30	832	2230	3988	6690	10036	14582	20329	25390	26419
800	32	1020	2753	4897	8063	12008	17927	24961	31051	32595
900	36	1363	3679	6544	10722	16126	24017	33367	41688	43747
1000	40	1737	4683	8320	13724	20586	30622	42460	53010	55755
1050	42	1955	5292	9401	15525	23245	34568	47950	59873	62274
1100	44	2144	5807	10293	16984	25561	37999	52582	65706	68365
1200	48	2581	6973	12352	20329	30708	45462	63132	78915	82089
1350	54	3396	9092	15954	26333	39801	59015	81918	102076	106365
1500	60	4297	11494	20415	33281	50351	74627	103791	129525	134671
1650	66	5404	14582	25905	42288	64076	94441	132098	169840	181849
1800	72	6604	17756	31566	51552	78058	114942	161263	207583	222165
2000	78	8406	22473	39972	65191	98644	145822	204152	262481	281352
2200	88	10379	27877	49751	80632	122662	180992	253045	325957	349117
2400	96	12866	33968	60730	98644	150111	221307	308801	398010	425460
2600	104	15440	40916	72997	118373	180134	265912	371419	478642	512096

Note:
1.The pressure-drop corresponding to the spring action, is refered to the normal torque type.
2.Cv=The number of U.S. Gallons/minute that will result in 1 psi pressure lose across the valve at temp of 15.6˚C (60 ˚F).
3.Cv=1.17Kv
4.Where the Kv value denotes the rate in m3/Hr for water at 25˚C flowing under pressure differential 1 Kg/cm^3

$$Q = C_V \sqrt{\frac{\triangle P}{G_L}}$$

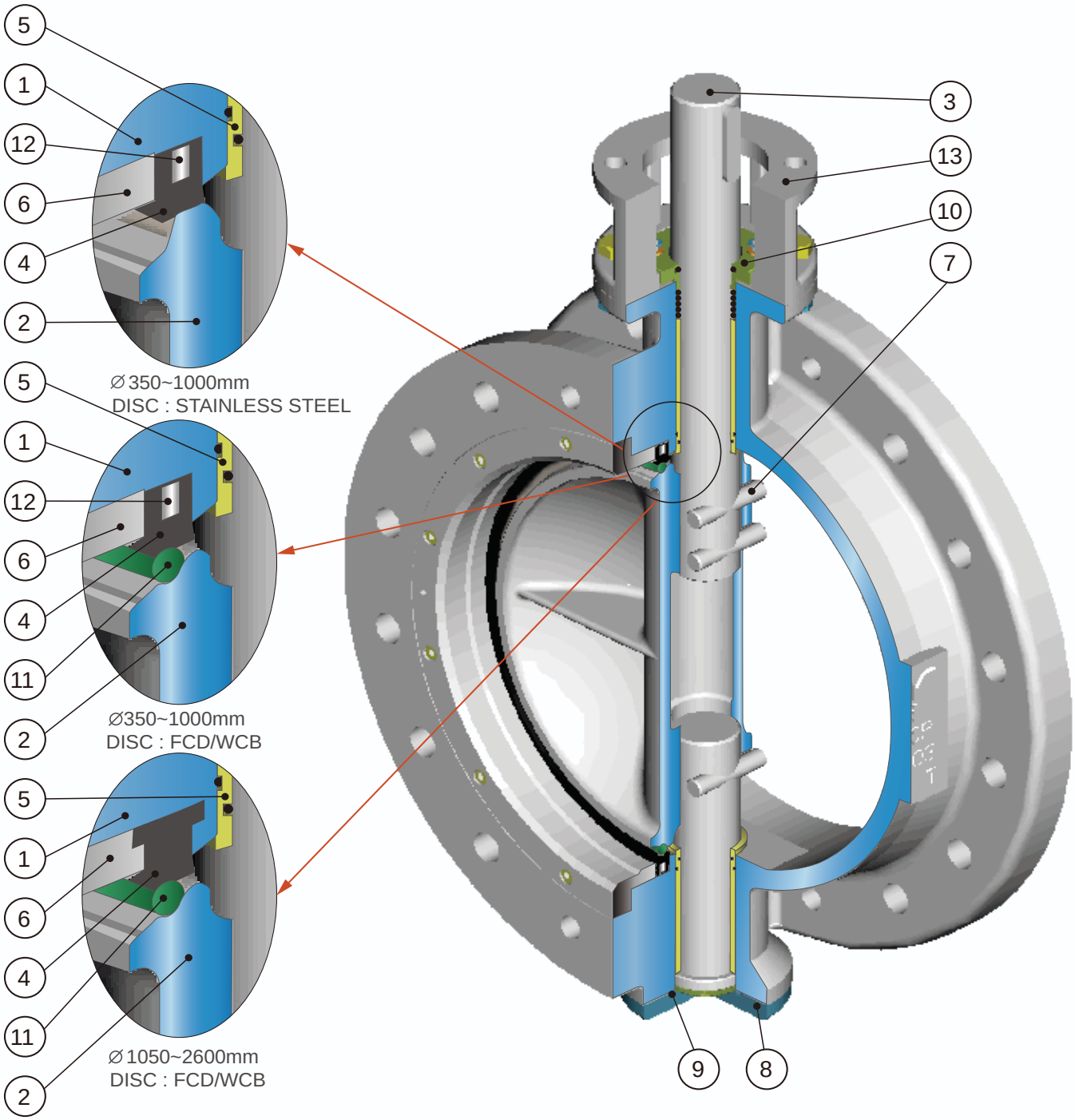
Q=Flow in gpm
(U.S. gallons per minute)
△ p=pressure drop through the valve (psi)
G_L= specific gravity(for water at 15.6˚C (60 ˚F) =1)

PART AND MATERIALS VF-264

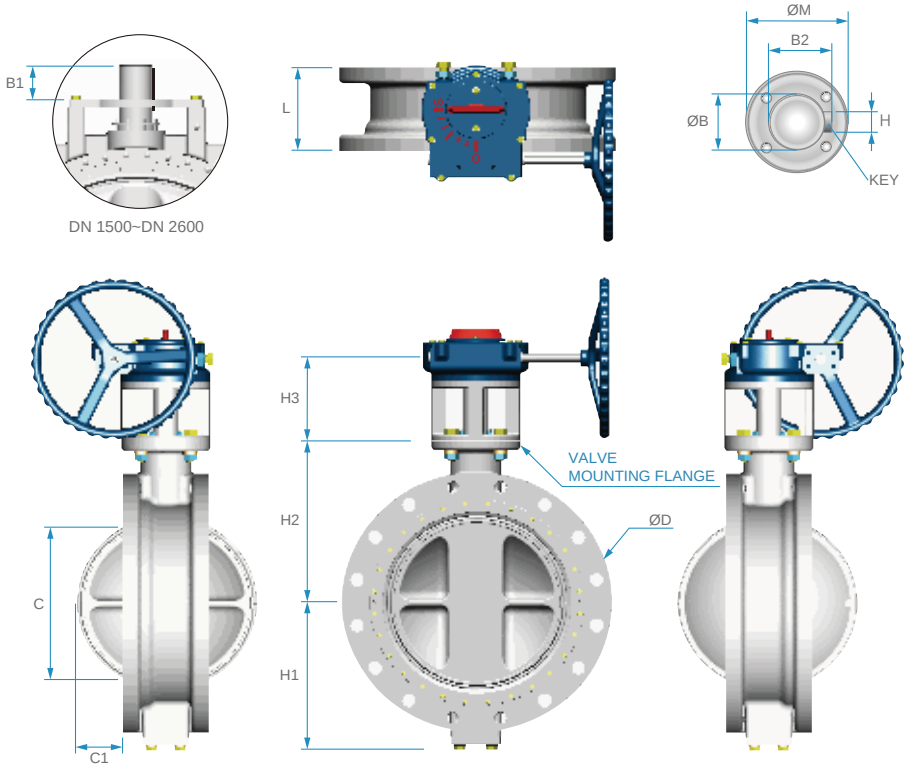
No.	Name	Metrrial	Specification		Remark
			JIS	ASTM	
1	BODY	CAST IRON	FC 200	A126-B	*(1)
		DUCTILE IRON	FCD 450	A536-65-45-12	*(1)
2	DISC	DUCTILE IRON	FCD 450	A536-65-45-12	*(1)
		STAINLESS STEEL	SCS 13A	A351 CF8	
			SCS 14A	A351 CF8M	
		WCB	SC480	A216 GRWCB	
3	STEM	STAINLESS STEEL	SUS 410	A182 F6A	
			SUS316	A182 F316	
		MONEL K 500			
		MONEL 400			
4	SEAT	NBR(NITRILE)			-10℃ ~80℃ (14 ℉ ~176 ℉)
		EPDM			-20℃ ~120℃ (-4 ℉ ~248 ℉)
		NEOPRENE			0℃ ~80℃ (32 ℉ ~176 ℉)
		VITON			-18℃ ~204℃ (-0.4 ℉ ~400 ℉)
5	BUSHING	BRONZE	BC 6	B62	
6	RETAINER RING	DUCTILE IRON	FCD 450	A536-65-45-12	
7	PIN	STAINLESS STEEL	SUS 316	A182 F316	
8	BOTTOM COVER	CAST IRON	FC 200	A126-B	
		DUCTILE IRON	FCD 450	A536-65-45-12	
9	O-RING	NBR(NITRILE)			
10	GLAND	BRONZE	BC6	B62	
11	DISC EDGE RING	STAINLESS STEEL	SUS 316	A182 F316	
		MONEL 400			
12	METAL RING	STEEL	SUS 400	A36	
13	YOKE	DUCTILE IRON	FCD 450	A536-65-45-12	

*Each materials can provide on different process of customer's requirements.
*(1)The body and disc could be hard rubber lined as customer's request.

PART AND MATERIALS VF-264



DOUBLE FLANGE TYPE DIMENSION VF-264

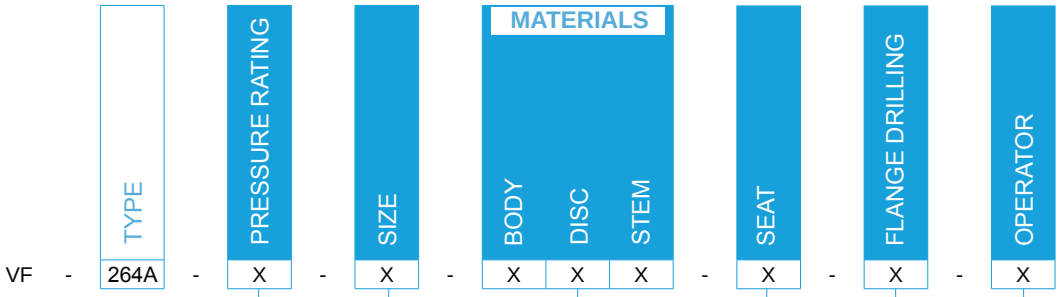


Unit : mm

Size		Face to Face	Dimensions						Mounting flange (ISO 5211)		Shaft end			
									VALVE					KEY
mm	Inch	L	H1	H2	H3	φD	C	C1	Type	φM	φB	B1	B2	W*H
350	14	203	302	320	152	535	247	58.5	F14	140	44.7	70	47.7	12*8
400	16	203	332	326	152	597	267	83	F14	140	54.7	70	58.7	16*10
450	18	203	366	395	206	640	379	114	F16	165	59.7	85	64.2	18*12
500	20	203	391	400	206	700	429	135	F16	165	59.7	85	64.2	18*12
600	24	203	449	455	206	815	548.5	190	F16	165	69.7	85	74.2	18*12
700	28	305	549	552	295	927	606	187	F25	254	84.5	110	92.5	24*16
750	30	305	551	575	295	985	674	218	F25	254	89.5	110	94.5	25*14
800	32	305	602	616	295	1060	724	240	F25	254	84.5	110	92.5	24*16
900	36	305	632	690	346	1170	828	289	F30	298	99.3	150	105.3	28*16
1000	40	305	734	789	346	1289	926	335	F30	298	104.3	150	110.3	28*16
1050	42	305	733	789	346	1347	945	345	F30	298	114.3	150	121.3	32*18
1100	44	305	773	800	346	1405	1016	378	F30	298	114.3	180	121.3	32*18
1200	48	381	822	880	310	1512	1091	718	F35	356	129.3	180	137.3	36*20
1350	54	381	871	930	310	1626	1255	466	F35	356	149	180	158	40*22
1500	60	381	998	1100	161	1854	1404	549	F40	406	160	170	169	40*22
1650	66	457	1078	1185	161	2032	1534	573	F40	406	179	190	189	45*25
1800	72	457	1177	1280	314	2197	1683	644	F48	483	190	200	201	50*28
2000	78	508	1277	1380	314	2362	1880	718	F48	483	205	220	231	50*28
2200	88	580	1397	1500	314	2642	2081	791	F48	483	203	240	214	50*28
2400	96	580	1558	1650	221	2877	2293	893	F48	483	203	240	214	50*28
2600	104	580	1596	1700	221	3048	2486	987	F60	603	260	300	272	63*32

*Other dimensions please consult with Value Valves.

General Ordering Information VF-264



PRESSURE RATING	
1	AWWA Pressure Classes 25B
2	AWWA Pressure Classes 75B
3	AWWA Pressure Classes 150B
END CONNECTION	
FLANGE (SHORT)	

OPERATOR	
N	BARE SHAFT
G	GEAR BOX
P	PNEUMATIC
E	ELECTRIC
H	HYDRAULIC
L	LEVER

SIZE	mm
14	350
16	400
18	450
20	500
24	600
26	650
28	700
30	750
32	800
36	900
40	1000
42	1050
44	1100
48	1200
54	1350
60	1500
66	1650
72	1800
78	2000
88	2200
96	2400
104	2600

BODY		DISC		STEM	
F0	A126-B	D5	65-45-12	10	A182 F6A
D5	65-45-12	13	CF8	16	F316
0	OTHER	14	CF8M	5M	MONEL K500
		WB	WCB	4M	MONEL 400
		0	OTHER	0	OTHER

FLANGE DRILLING	
A	ASME B16.5 150LB
B	ISO 7005-1 PN10
C	ISO 7005-1 PN16
D	ISO 7005-1 PN20
E	ISO 7005-1 PN25
F	JIS 10K
G	JIS 16K
H	JIS 20K
K	B.S. 10 Table E

SEAT	
NB	NBR(NITRILE)
EP	EPDM
CR	NEOPRENE
VT	VITON
0	OTHER

Note: Example
VF-264-1-14-F01310-NB-F-E

Shall be a: Flanged Type Butterfly Valve(264)
AWWA Pressure Classes 25B(1)●DN350(14)
A126-B Body(F0)●CF8 Disc(13)●A182 F6A STEM (10)
NBR SEAT(NB)● JIS 10K(F)●ELECTRIC(E)

* For any other special offers, please contact Value Valves.

www.valuevalves.com

VALUE VALVES CO., LTD.

TEL : +886-2-22698000
FAX : +886-2-22686600
E-MAIL : sales@valuevalves.com.tw
ADD : No.9, Chung Shan Rd., Tu-Cheng Industrial District, New Taipei City, Taiwan 236

VALUE VALVES (SuZhou) LTD.

TEL : +86-512-66558783
FAX : +86-512-66553063
E-MAIL : sales@valuevalves.com.cn
ADD : No.2, WangShan Road, Economic Development Zone, WangShan, Photoelectricity Industrial Park, Suzhou, Jiang Su, China 215104

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