



Value Valves

VF-264 SERIES

**AWWA Double Flanged Type
Butterfly Valves**

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**AWWA Double Flanged Type
Butterfly Valve**

PRODUCT CHARACTERISTICS

- 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 20,000V DC 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

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.



DESIGN 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.

SPECIAL OFFER

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



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CV FLOW COEFFICIENT

Size		Percent of Rated Travel									
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
350	14	131	338	593	941	1394	1981	2755	3661	4395	4546
400	16	177	471	828	1317	1947	2738	3800	5108	6116	6347
450	18	235	615	1081	1662	2481	3630	5086	6670	7996	8320
500	20	312	824	1451	2314	3431	4872	6750	8919	10671	11065
600	24	471	1237	2181	3458	5176	7428	10259	13398	15938	16555
700	28	649	1702	3003	4727	7076	10190	14114	18493	22053	22902
750	30	749	1950	3461	5609	8363	11854	16306	21341	25493	26419
800	32	918	2406	4254	6797	10036	14376	20037	26179	31205	32595
900	36	1227	3216	5685	9051	13424	19282	26822	35031	41894	43747
1000	40	1563	4094	7229	11562	17155	24600	34173	44570	53285	55755
1050	42	1760	4625	8168	13075	19385	27774	38583	50335	60113	62274
1100	44	1930	5074	8947	14308	21273	30536	42374	55207	65972	68365
1200	48	2323	6095	10738	17138	25519	36610	50763	66289	79232	82089
1350	54	3056	7953	11374	20741	33067	47487	65886	85950	102505	106365
1500	60	3867	10055	17739	28135	41816	60061	83376	108938	130040	134671
1650	66	4864	12746	22508	35735	53182	76222	105738	139646	171041	181849
1800	72	5944	15526	27423	43558	64805	92812	128838	170527	209041	222165
2000	78	7565	19660	34722	55103	81918	117515	163321	215818	264368	281352
2200	88	9341	24377	43189	68280	101647	145994	202608	267627	328273	349117
2400	96	11579	29748	52701	83478	124378	178589	247555	326643	400755	425460
2600	104	13896	32527	62138	100223	149254	214445	297564	392864	481987	512096

Note:

1. Other dimensions please consult with Value Valves.
2. The pressure-drop corresponding to the spring action, is referred to the normal torque type.
3. 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).
4. Cv=1.17Kv
5. Where the Kv value denotes the rate in m³/hr for water at 25°C (77 °F) flowing under pressure differential 1 kg/cm³

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

$$Q = C_v \sqrt{\frac{\Delta P}{G_L}}$$

TORQUE CHART (Nm)

Including 30% Safety Factor

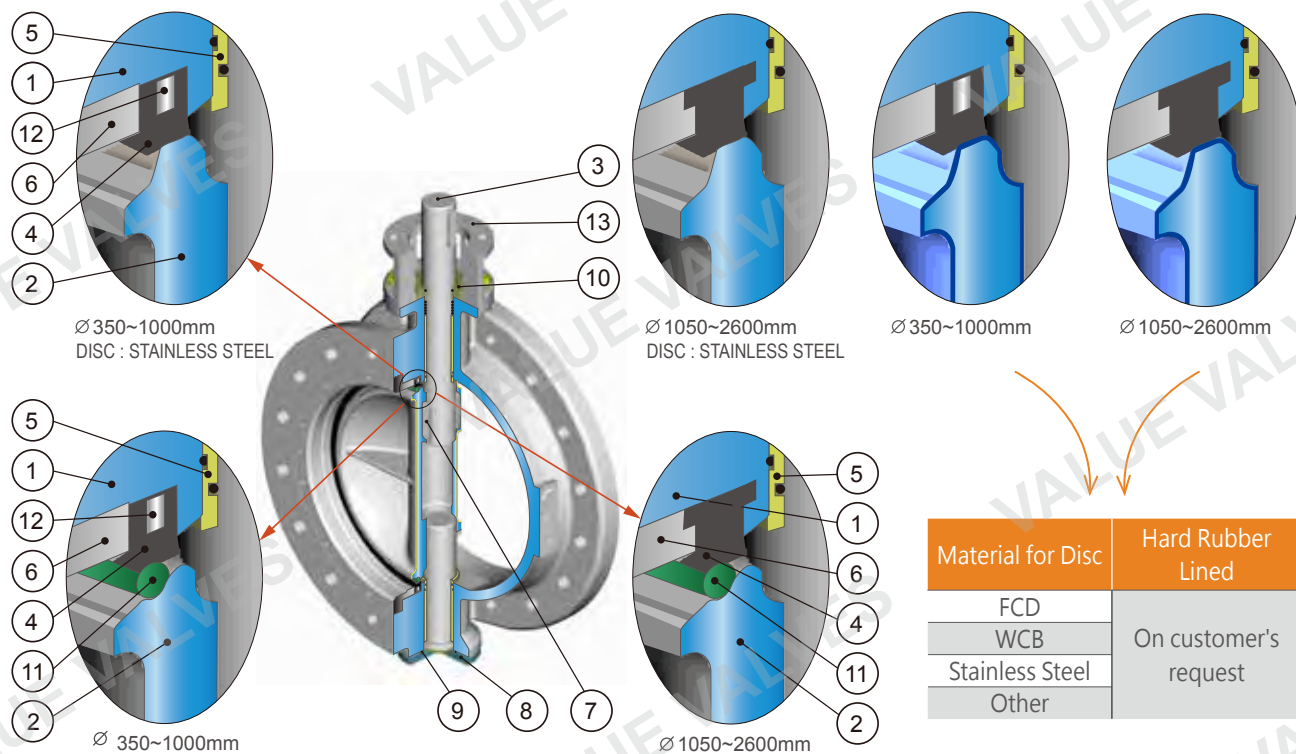
SIZE		扭力 (Nm)			
mm	inch	3kg/cm²	4.5kg/cm²	7.5kg/cm²	10kg/cm²
350	14	325	330	625	890
400	16	475	490	875	1340
450	18	650	675	1200	1825
500	20	850	950	1725	2425
600	24	1450	1625	2675	3950
700	28	2125	2525	4125	6025
750	30	2450	2890	4730	6890
800	32	3175	3780	6025	8690
900	36	4550	5410	8425	12050
1000	40	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 torque chart, note the following:

1. Seating / unseating torque valves above included friction bearing torque for stated Δp.
2. Do not apply a safety factor to above torque valves when determining actuator out put torque requirement.
3. Other dimensions please consult with Value Valves.
4. Test medium: water / room temperature

VF-264 AWWA Double Flanged Type Butterfly Valve

PARTS AND MATERIALS

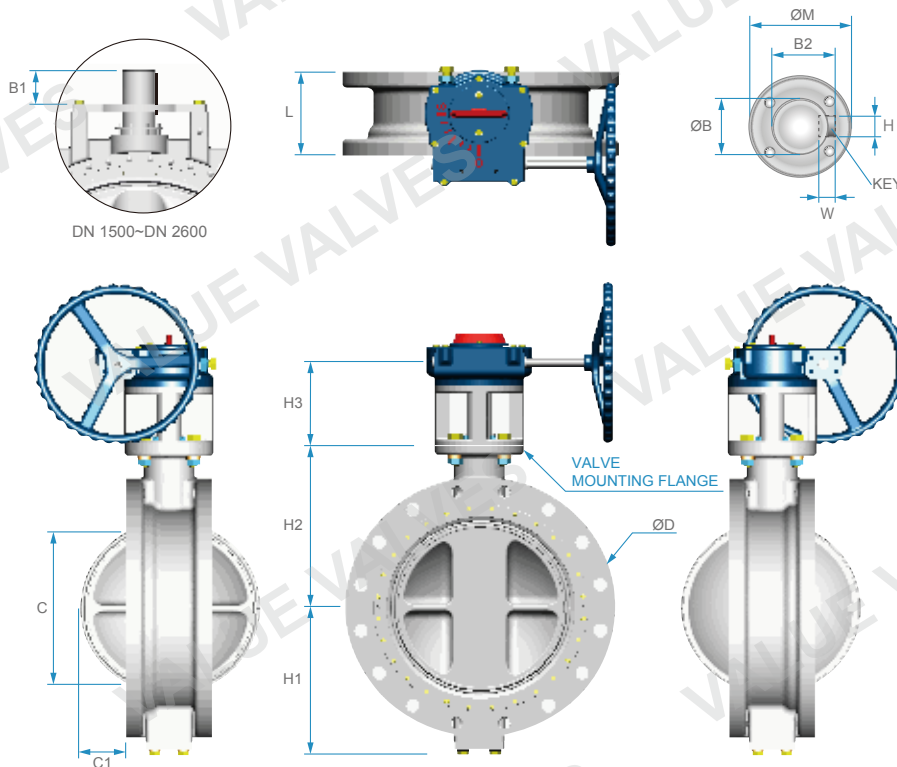


No.	Name	Mettrial	Specification		Remark
			JIS	ASTM	
1	BODY	CAST IRON	FC 200	A126-B	
		DUCTILE IRON	FCD 450	A536-65-45-12	
2	DISC	DUCTILE IRON	FCD 450	A536-65-45-12	(1)
		STAINLESS STEEL	SCS 13A	A351 CF8	
			SCS 14A	A351 CF8M	
		WCB	SC 480	A216 GR WCB	
3	SHAFT	STAINLESS STEEL	SUS 410	A182 F6A	
			SUS 316	A182 F316	
		MONEL K 500			
4	SEAT	MONEL 400			
		NBR(NITRILE)			-10°C ~ 90°C (14 °F ~194 °F)
		EPDM			-20°C ~120°C (-4 °F ~248 °F)
		NEOPRENE			0°C ~ 80°C (32 °F ~176 °F)
		FKM			-18°C ~204°C (-0.4 °F ~400 °F)
5	BUSHING	BRONZE	BC 6	B62	
6	RETAINER RING	DUCTILE IRON	FCD 450	A536-65-45-12	
7	KEY	STAINLESS STEEL	SUS 410	A182 F6A	Material must be the same with the shaft.
			SUS316	A182 F316	
		MONEL K 500	N05500 (ons number)	N05500 (ons number)	
		MONEL 400	N04400 (ons number)	N04400 (ons number)	
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	

1. The body and disc could be hard rubber lined as customer's request.
2. Each materials can provide on different process of customer's requirements.
3. " * " Value Valves offer high quality replacement parts for our own product.
4. When Temp. $\leq -10^{\circ}\text{C}$ (14 °F), please consult Value Valves.

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DIMENSIONS



Unit : mm

Size		Face to Face	Dimensions						Mounting flange (ISO 5211)		Shaft end			
mm	Inch	L	H1	H2	H3	φD	C	C1	VALVE		φB	B1	B2	KEY
									Type	φM				H*W
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

1. *Other dimensions please consult with Value Valves.
2. Inside Pipe Diameter > C

VF-264 AWWA Double Flanged Type Butterfly Valve

General Ordering Information



VF	-	TYPE	-	PRESSURE RATING	-	SIZE	-	MATERIALS			-	SEAT	-	FLANGE DRILLING	-	OPERATOR
		264A		X		X		X	X	X		X		X		X

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.



VF-8 Series 136 inch
High Performance
Triple-Offset Butterfly Valves



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