



Value Valves

VF-8 A Series High Performance Triple-Offset Butterfly Valves

VALUE VALVES

VALUE VALVES
VF-8A Series
Triple Offset Butterfly Valve



Flanged Type ▀

END CONNECTION:	Wafer
	Lugged
	Flanged (Short Pattern)
	Flanged (Long Pattern)
ANSI CLASS & SIZES:	150 LB, DN100-DN1200 (4" - 48")
	300 LB, DN100-DN900 (4" - 36")
	600 LB, DN100-DN600 (4" - 24")
TEMPERATURE RANGE:	Remark: Size & rating out of range can be provided upon request
	Laminated Seat : -75 °C~550 °C (-103 °F~1022 °F) Solid metal Seat : -100 °C~760 °C (-148 °F~1400°F)
APPLICATIONS:	Petrochemicals Industry
	Fossil & Cogeneration Power
	Steel Mill
	Refinery
	Cryogenic
	Pulp & Paper
Nuclear Power	



Wafer Type ▀

APPLICABLE STANDARDS

VALVE DESIGN & PRESSURE/ TEMPERATURE RATINGS:	ASME B16.34 API 609	
PRESSURE TESTING:	API 598 ISO 5208	
FLANGE DRILLING:	ASME B16.5 ASME B 16.47 ISO 7005 EN 1092	 
MOUNTING FLANGE:	ISO 5211	 
FACE TO FACE:	API 609 ISO 5752 ASME B16.10	 
FIRE SAFE APPROVAL:	API 607 ISO 10497	
FUGITIVE EMISSION APPROVAL:	ANSI/ISA-SP-93 ISO15848 TA LUFT	
CRYOGENIC:	BS 6364	
MARKING:	MSS-SP-25 ASME B16.34	
LEAKAGE CLASS:	ANSI FCI 70-2 Class V ISO 5208 RATE A	
MANUFACTURING QUALITY:	ISO 9001 PED 2014/68/EU (Module H) ATEX 2014/34/EU SIL 3 (SEE REMARK BELOW)	
CERTIFICATION:	API 609 Monogram API 607 ISO 15848 ISO 10497 TR CU 010 TR CU 032	

REMARK:

The valves are suitable for use in a safety instrumented system up to SIL 2 (low demand mode).
The valves may be used in a redundant architecture up to SIL 3.



VALUE VALVES

DESIGN FEATURES

DISC INDICATION

Disc indication marked at the shaft end to clearly identify the disc opening degree at any time.

DISC HARD FACE

The standard disc is built with a Stellite weld overlay or Hard chrome plated, hard face provides increased hardness and wear resistance with long service life.

SEALING DESIGN

The soft sealing of graphite for laminated seat is placed on the body which reducing the possibility of graphite gets wear further leads to leakage. The graphite is positioned in the notch of the sealing seat in order to allow for easy repair.

We provides
& laminated seat $-75\text{--}550\text{ }^{\circ}\text{C}$ ($-103\text{--}1022\text{ }^{\circ}\text{F}$)
& solid metal seat as well. $-100\text{--}760\text{ }^{\circ}\text{C}$ ($-148\text{--}1400\text{ }^{\circ}\text{F}$)

DUST PROOF DESIGN

A set of bushing design prevents the ingress of foreign material into the shaft area.

SHAFT STRENGTH UPGRADED

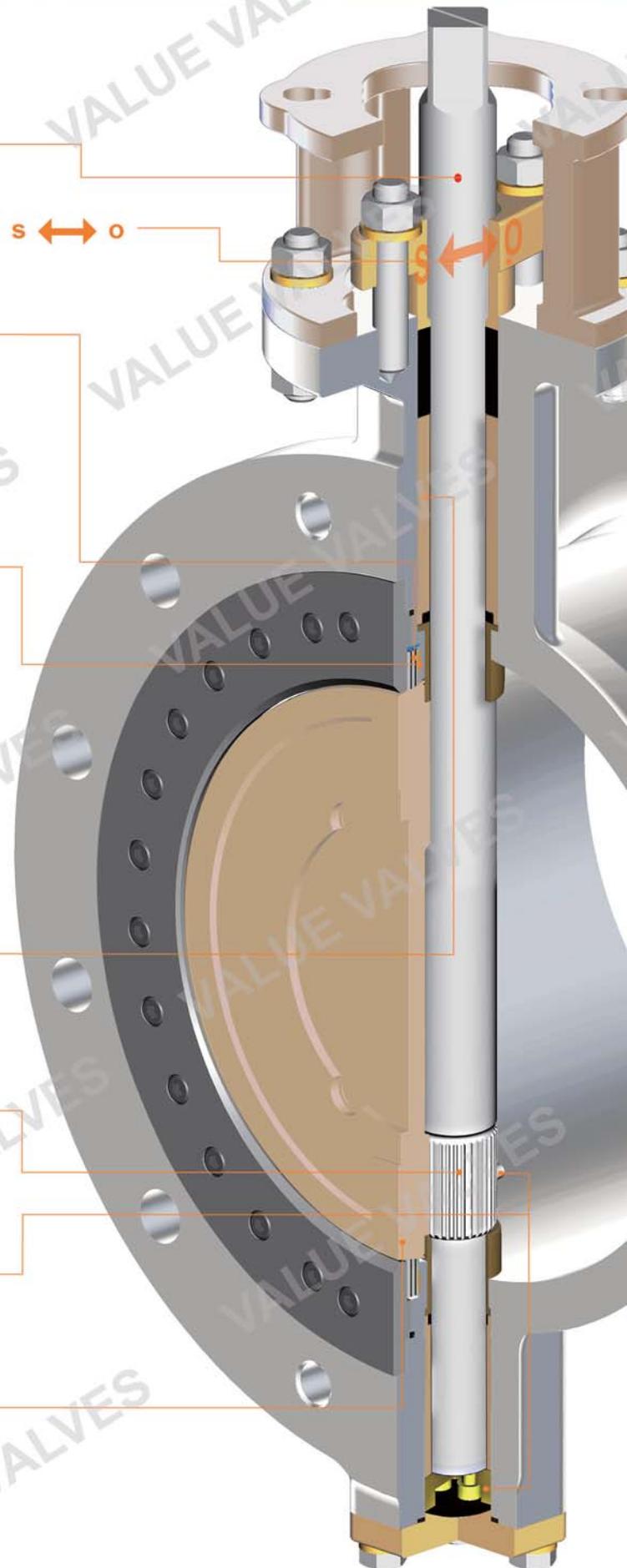
Shaft strength increased by splined shaft without drilling on the shaft for taper pin.

BLOW-OUT PROTECTION

Both the shaft stop and bottom cover offers reliable blowout protection.

DISC

Pin-less design provides easily maintenance work.



DESIGN FEATURES

For flanged end valve, the shaft is positioned at the flange side which reduced the possibility of external leakage caused by the ambient temperature changed.

BI-DIRECTIONAL SHUTOFF DESIGN

The floating sealing design is self-adjustable and the sealing surfaces of an elliptical sealing system are completely in contact at the final position only. This mechanism provides flawless bubble tight shutoff.



VF-878A



VF-873A



Jacketed Valve



Customized Valve

VF-87A

ANSI CLASS 150LB

TORQUE CHART (Nm)

Including 30% Safety Factor

Operating Differential Pressure

Size		Flow Direction	6.25 bar		12.5 bar		25 bar	
			End to Close (Nm)	Break to Open (Nm)	End to Close (Nm)	Break to Open (Nm)	End to Close (Nm)	Break to Open (Nm)
mm	inch							
100	4	Shaft Side	108	108	108	108	108	132
100	4	Bidirectional	108	129	108	129	149	179
150	6	Shaft Side	187	187	187	187	187	236
150	6	Bidirectional	187	224	187	224	285	343
200	8	Shaft Side	205	205	205	205	205	338
200	8	Bidirectional	205	246	205	246	380	456
250	10	Shaft Side	380	380	380	380	380	600
250	10	Bidirectional	380	456	380	456	691	829
300	12	Shaft Side	541	541	541	541	541	898
300	12	Bidirectional	541	649	541	649	1030	1237
350	14	Shaft Side	654	654	654	666	654	1223
350	14	Bidirectional	654	785	688	826	1375	1650
400	16	Shaft Side	862	862	862	909	862	1679
400	16	Bidirectional	862	1034	943	1132	1886	2263
450	18	Shaft Side	1097	1097	1097	1198	1097	2226
450	18	Bidirectional	1097	1316	1247	1497	2495	2994
500	20	Shaft Side	1192	1192	1192	1396	1192	2622
500	20	Bidirectional	1192	1430	1464	1757	2927	3513
600	24	Shaft Side	1730	1730	1730	2305	1730	4365
600	24	Bidirectional	1730	2075	2406	2886	4811	5774
650	26	Shaft Side	3003	3003	3003	4310	3003	8314
650	26	Bidirectional	3003	3604	4605	5526	9210	11051
700	28	Shaft Side	4366	4366	4366	7634	4366	14711
700	28	Bidirectional	4366	5240	7950	9541	15901	19082
750	30	Shaft Side	5007	5580	5007	10470	5007	20249
750	30	Bidirectional	5390	6468	10781	12937	21561	25873
800	32	Shaft Side	5775	5898	5775	11106	5775	21520
800	32	Bidirectional	5785	6942	11570	13884	23140	27768
900	36	Shaft Side	8506	8506	8506	14947	8506	29055
900	36	Bidirectional	8506	10207	15809	18971	31618	37942
1000	40	Shaft Side	11185	11185	11185	19627	11185	37986
1000	40	Bidirectional	11185	13422	20596	24715	41193	49431
1050	42	Shaft Side	12419	13174	12419	25081	12419	48980
1050	42	Bidirectional	13149	15779	26297	31557	52595	63114
1100	44	Shaft Side	13630	14459	13630	27526	13630	53755
1100	44	Bidirectional	14431	17317	28861	34634	57724	69268
1200	48	Shaft Side	19425	19425	19425	31177	19425	60045
1200	48	Bidirectional	19425	23310	32753	39304	65506	78607

VF-88A

ANSI CLASS 300LB

TORQUE CHART (Nm)

Including 30% Safety Factor

Operating Differential Pressure

Size		Flow Direction	12.5 bar		25 bar		50 bar	
			End to Close (Nm)	Break to Open (Nm)	End to Close (Nm)	Break to Open (Nm)	End to Close (Nm)	Break to Open (Nm)
mm	inch							
100	4	Shaft Side	188	188	188	188	188	236
100	4	Bidirectional	188	226	188	226	272	326
150	6	Shaft Side	358	358	356	358	358	533
150	6	Bidirectional	358	429	356	429	599	719
200	8	Shaft Side	420	420	420	486	420	842
200	8	Bidirectional	420	504	441	529	882	1058
250	10	Shaft Side	775	775	775	775	775	1379
250	10	Bidirectional	775	930	775	930	1521	1826
300	12	Shaft Side	1097	1097	1097	1121	1097	2030
300	12	Bidirectional	1097	1317	1128	1354	2256	2707
350	14	Shaft Side	1324	1324	1324	1445	1324	2626
350	14	Bidirectional	1324	1589	1447	1736	2894	3473
400	16	Shaft Side	1749	1749	1749	2434	1749	4490
400	16	Bidirectional	1749	2098	2406	2887	4813	5775
450	18	Shaft Side	2216	2216	2216	2784	2216	5124
450	18	Bidirectional	2216	2659	2784	3340	5567	6681
500	20	Shaft Side	2399	2399	2399	3588	2399	6662
500	20	Bidirectional	2399	2879	3554	4264	7107	8529
600	24	Shaft Side	3459	3459	3459	5464	3459	10257
600	24	Bidirectional	3459	4151	5484	6582	10969	13162
650	26	Shaft Side	5095	5095	5095	7838	9376	15281
650	26	Bidirectional	5095	6194	10610	12732	17420	19575
700	28	Shaft Side	6730	6730	6730	10212	15292	20305
700	28	Bidirectional	6730	8237	15734	18880	29616	25989
750	30	Shaft Side	9702	9702	9702	15093	17628	28030
750	30	Bidirectional	9702	11723	18142	21770	34149	37654
800	32	Shaft Side	12674	12674	12674	19974	19974	35754
800	32	Bidirectional	12674	15208	20550	24660	38682	49319
900	36	Shaft Side	20605	20605	16240	25592	25592	45252
900	36	Bidirectional	20605	24725	26330	31596	49561	62420

VF-89A

ANSI CLASS 600LB

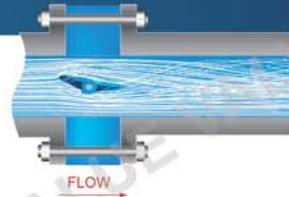
TORQUE CHART (Nm)

Including 30% Safety Factor

Operating Differential Pressure

Size		Flow Direction	27.5 bar		55 bar		110 bar	
			End to Close (Nm)	Break to Open (Nm)	End to Close (Nm)	Break to Open (Nm)	End to Close (Nm)	Break to Open (Nm)
mm	inch							
100	4	Shaft Side	382	382	382	409	382	719
100	4	Bldirectional	382	458	387	464	774	929
150	6	Shaft Side	700	700	700	934	700	1691
150	6	Bldirectional	700	840	898	1077	1795	2154
200	8	Shaft Side	1333	1333	1333	1355	1333	2467
200	8	Bldirectional	1333	1599	1378	1654	2758	3309
250	10	Shaft Side	2142	2142	2142	2266	2142	4234
250	10	Bldirectional	2142	2571	2397	2876	4793	5752
300	12	Shaft Side	2775	2775	2775	3300	2775	6169
300	12	Bldirectional	2775	3330	3424	4109	6847	8217
350	14	Shaft Side	3622	3622	3622	3953	3622	7371
350	14	Bldirectional	3622	4346	4142	4971	8285	9942
400	16	Shaft Side	5010	5010	5010	8361	8361	10724
400	16	Bldirectional	5010	6010	7925	9510	15850	19020
450	18	Shaft Side	6339	6339	6339	10582	10582	19346
450	18	Bldirectional	6339	7607	10030	12037	20061	24073
500	20	Shaft Side	8448	8448	8448	13634	8448	25023
500	20	Bldirectional	8448	10138	13079	15695	26159	31390
600	24	Shaft Side	8931	11536	8931	19298	8931	34822
600	24	Bldirectional	8931	11536	17310	20773	34621	41545

CV FLOW COEFFICIENT



CV FLOW COEFFICIENT

VF-87_A Series - 150LB

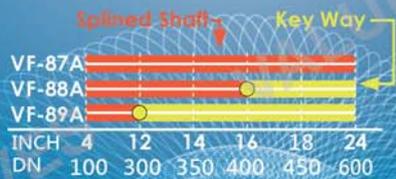
Size		Percent of Rated Travel									
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
100	4	17	38	67	107	148	194	251	300	319	296
150	6	33	78	146	231	336	461	625	795	919	893
200	8	50	138	254	377	552	770	1021	1294	1475	1525
250	10	92	230	410	620	896	1253	1677	2155	2536	2687
300	12	132	362	642	958	1377	1864	2473	3092	3671	3810
350	14	118	279	608	1036	1673	2575	3730	5015	6564	6843
400	16	348	454	856	1458	2320	3488	5082	6915	8584	9280
450	18	463	735	1336	2212	3345	4765	6274	7963	9688	11170
500	20	490	975	1645	2576	3944	5603	7837	10396	12825	13386
600	24	640	1395	2250	3636	5587	8333	11611	14717	18754	21216
700	28	440	1220	2420	4110	6160	9390	14450	20100	26631	28000
750	30	642	1568	2994	5204	8413	12976	19748	27306	30500	31500
800	32	680	1662	3172	5514	8912	13746	20922	28928	34240	36000
900	36	788	2043	3924	7221	11451	17885	26682	38300	42610	44800
1000	40	1350	2750	5200	8900	14500	21900	29700	40015	55069	57900
1050	42	1200	2900	5600	9200	15000	23200	35500	50000	61800	65000
1100	44	1302	3145	6074	9978	16269	25163	38504	54231	67029	70500
1200	48	1505	3636	7022	11535	18808	29089	44512	62692	77488	81500

VF-88_A Series - 300LB

Size		Percent of Rated Travel									
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
100	4	13	40	70	112	132	161	186	206	203	196
150	6	30	98	168	239	313	380	439	515	587	601
200	8	47	156	286	420	582	680	837	991	1153	1240
250	10	94	232	414	769	1093	1181	1448	1746	2372	2401
300	12	151	377	637	941	1289	1637	2101	2497	2754	2797
350	14	219	504	822	1185	1654	2143	2617	3178	3919	4336
400	16	208	478	898	1474	2211	3208	4387	5399	6632	6942
450	18	260	660	1192	1979	2937	4271	5586	6965	8378	9117
500	20	350	969	1651	2807	4451	5807	7650	9580	11758	12736
600	24	498	1267	2127	3375	5098	7344	9714	12196	15139	16356
700	28	381	988	1898	3492	6000	9460	14320	20000	23550	24500
750	30	429	1111	2135	3929	6700	11100	17300	23800	28900	30300
800	32	500	1400	2700	4900	7800	12100	18600	26500	30900	32100
900	36	610	1580	3400	6400	11100	17600	26800	35100	40800	42500

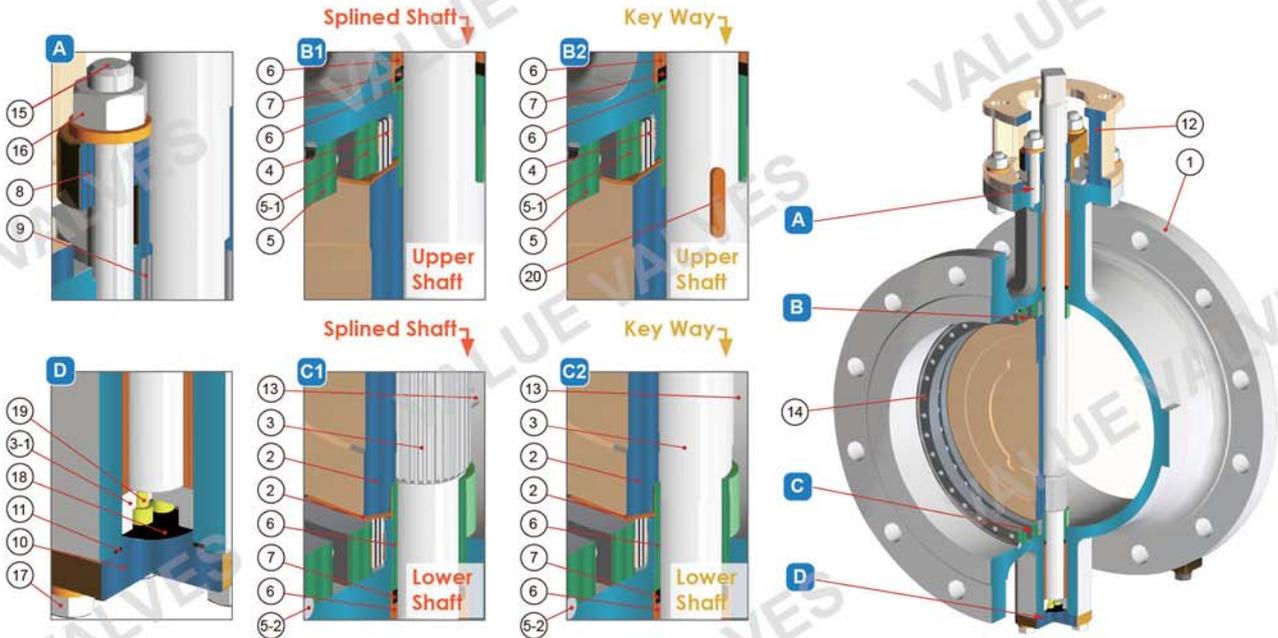
VF-89_A Series - 600LB

Size		Percent of Rated Travel									
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
100	4	15	27	45	95	125	265	320	420	560	512
150	6	40	67	114	189	280	385	488	585	652	605
200	8	60	139	256	405	569	808	981	1169	1272	1225
250	10	80	212	398	622	858	1230	1474	1753	1892	1845
300	12	134	291	548	900	1303	1744	2207	2623	2921	2886
350	14	209	485	854	1299	1856	2452	3001	3671	3741	3483
400	16	198	819	1280	1880	2571	3402	4039	4557	4877	4710
450	18	388	942	1613	2385	3191	4078	4907	5622	5848	5547
500	20	476	1157	1981	2929	3919	5009	6026	6905	7182	6812
600	24	593	1289	2340	3667	5283	7085	8778	10778	12351	12011



Flange(Long) Type / Flange(Gate) Type

PARTS AND MATERIALS



No.	Name	Materials	Spare Parts	No.	Name	Materials	Spare Parts
1	BODY	A216 Gr. WCB		5	BODY RETAINER	A351 Gr. CF8	
		A351 Gr. CF8M				A351 Gr. CF8M	
		A351 Gr. CF8M		5-1	SEAT RETAINER	SAME AS BODY RETAINER	
2	DISC	A216 Gr. WCB		5-2	STOP RING	SAME AS BODY RETAINER	
		A351 Gr. CF8		6	BUSHING	STAINLESS STEEL	*
		A351 Gr. CF8M		7	SEAL	GRAPHITE	*
	DISC HARD FACE	HARD CHROME PLATED		8	GLAND	A351 Gr. CF8	
		STELLITE		A351 Gr. CF8M			
		WELD OVERLAY		9	GLAND PACKING	GRAPHITE	*
3	SHAFT	A182 Gr. F6a		10	BOTTOM COVER	A216 Gr. WCB	
		A479 XM-19		A351 Gr. CF8M			
		UNS S32205		11	BOTTOM COVER GASKET	GRAPHITE	*
3-1	SHAFT STOP	A182 Gr. F6a		12	YOKE	A351 CF8	
		A479 XM-19				A216 Gr. WCB	
		UNS S32205				FCD	
4	MATEL SEAT	A240 Gr. 304	*	13	STOP STUD	A193 Gr. B8M	*
		A240 Gr. 316		14	STUD	A193 Gr. B8	
		UNS S32205		15	STUD	A193 Gr. B8	
		A479 XM-19		16	NUT	A194 Gr. 8	
	LAMINATED SEAT	A240 Gr. 304+GRAPHITE		17	BOLT	A193 Gr. B8	
		A240 Gr. 316+GRAPHITE		18	LOCK PLATE	RTFE+316SS	
		UNS S32205+GRAPHITE		19	SOCKET BOLT	A193 Gr. B8	
	A479 XM-19+GRAPHITE		20	KEY WAY	SAME AS SHAFT		

Remark: 1. Other dimensions please consult with Value Valves.
 2. Materials other than standard upon request.
 3. VF-89 series has KEY WAY on both the upper and lower shafts.

VF-870A VF-873A

ANSI CLASS 150

DN 100~1200
INCH 4~48

DIMENSIONS



VF-873A LUG TYPE

VF-870A WAFER TYPE

Unit : mm

Size		Face to Face	Dimensions					Mounting flange (ISO 5211)				Shaft end			
mm	Inch		L	H1	H2	H3	C	C1	VALVE		Yoke		φB	B1	Key (H*W)
								Type	ØM	Type	M1				
100	4	54	162	165	70	78	22	F10	125	F10/F07	102	18	23	-	14
150	6	57	197	215	70	130	45	F10	125	F10/F07	102	22	23	-	17
200	8	64	212	230	80	174	65	F12	150	F12/F10	125	28	28	-	22
250	10	71	252	275	80	220	85	F12	150	F12/F10	125	28	28	-	22
300	12	81	291	315	100	268	104	F14	175	F14/F12	140	35	37	-	27
350	14	92	326	355	100	305	121	F14	175	F14/F12	140	34.85	55	10*8	-
400	16	102	359	390	120	353	141	F16	210	F16/F14	165	49.7	65	16*10	-
450	18	114	384	415	120	398	159	F16	210	F16/F14	165	49.7	65	16*10	-
500	20	127	414	455	120	445	177	F16	210	F16/F14	165	59.7	80	18*12	-
600	24	154	479	540	150	540	214	F25	300	F25	300	59.7	80	18*12	-
650	26	165	483	543	150	560	221	F30	350	F30	350	69.7	110	18*12	-
700	28	165	543	590	150	605	243	F30	350	F30	350	74.7	110	20*12	-
750	30	190	573	620	180	644	253	F35	415	F35	415	79.5	110	24*16	-
800	32	190	598	655	180	690	276	F35	415	F35	415	89.5	110	25*14	-
900	36	203	641	695	180	781	322	F35	415	F35	415	99.3	150	28*16	-
1000	40	216	740	820	200	866	355	F40	475	F40	475	104.3	180	28*16	-
1050	42	254	756	840	200	903	359	F40	475	F40	475	114.3	180	32*18	-
1100	44	254	777	880	200	948	381	F40	475	F40	475	114.3	180	32*18	-
1200	48	254	816	934	200	1058	436	F40	475	F40	475	129.3	180	36*20	-

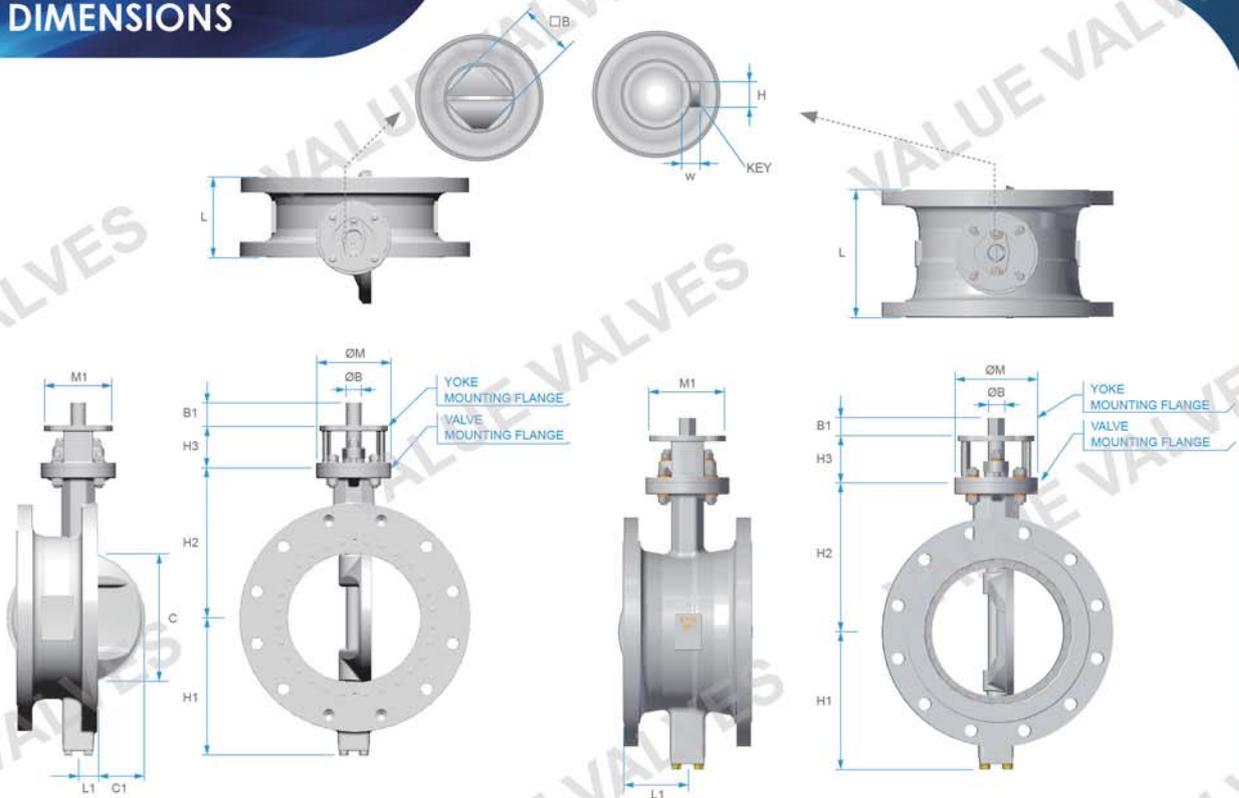
* Other dimensions please consult with Value Valves. *Inside Pipe Diameter > C

DN 100~1200
INCH 4~48

VF-876A VF-877A VF-878A

ANSI CLASS 150LB

DIMENSIONS



VF-876A FLANGE TYPE

VF-877A VF-878A FLANGE TYPE

Unit : mm

Size		Face to Face						Dimensions					Mounting flange (ISO 5211)				Shaft end			
mm	Inch	VF-876A		VF-877A		VF-878A		H1	H2	H3	VF-876A		VALVE		Yoke		φB	B1	Key (H*W)	□B
		L1	L	L1	L	L1	L				C	C1	Type	ØM	Type	M1				
100	4	27	127	95	190	95	229	162	165	70	70	17	F10	125	F10/F07	102	18	23	-	14
150	6	28.5	140	105	210	105	267	197	215	70	125	39	F10	125	F10/F07	102	22	23	-	17
200	8	32	152	115	230	115	292	212	230	80	168	57	F12	150	F12/F10	125	28	28	-	22
250	10	35.5	165	125	250	125	330	252	275	80	215	76	F12	150	F12/F10	125	28	28	-	22
300	12	40.5	178	135	270	135	356	291	315	100	263	96	F14	175	F14/F12	140	35	37	-	27
350	14	46	190	145	290	145	381	326	355	100	299	110	F14	175	F14/F12	140	34.85	55	10*8	-
400	16	51	216	155	310	155	406	359	390	120	347	130	F16	210	F16/F14	165	49.7	65	16*10	-
450	18	57	222	165	330	165	432	384	415	120	392	148	F16	210	F16/F14	165	49.7	65	16*10	-
500	20	63.5	229	175	350	175	457	414	455	120	439	166	F16	210	F16/F14	165	59.7	80	18*12	-
600	24	77	267	195	390	195	508	479	540	150	533	203	F25	300	F25	300	59.7	80	18*12	-
650	26	82.5	292	215	430	215	559	483	543	150	552	207	F30	350	F30	350	69.7	110	18*12	-
700	28	82.5	292	215	430	215	610	543	590	150	598	230	F30	350	F30	350	74.7	110	20*12	-
750	30	95	318	235	470	235	610	573	620	180	637	240	F35	415	F35	415	79.5	110	24*16	-
800	32	95	318	235	470	235	660	598	655	180	682	262	F35	415	F35	415	89.5	110	25*14	-
900	36	101.5	330	255	510	255	711	641	695	180	767	295	F35	415	F35	415	99.3	150	28*16	-
1000	40	108	410	275	550	-	-	740	820	200	857	338	F40	475	F40	475	104.3	180	28*16	-
1050	42	127	410	315	630	-	-	756	840	200	892	341	F40	475	F40	475	114.3	180	32*18	-
1100	44	127	470	315	630	-	-	777	880	200	938	364	F40	475	F40	475	114.3	180	32*18	-
1200	48	127	470	315	630	-	-	816	934	200	1047	419	F40	475	F40	475	129.3	180	36*20	-

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

VF-880A VF-883A Series

DN 100~900
INCH 4~36

ANSI CLASS 300

DIMENSIONS



VF-883A LUG TYPE

VF-880A WAFER TYPE

Unit : mm

Size		Face to Face	Dimensions					Mounting flange (ISO 5211)				Shaft end		
mm	Inch	L	H1	H2	H3	C	C1	VALVE		Yoke		φB	B1	Key (H*W)
							Type	ØM	Type	M1				
100	4	54	162	165	70	78	22	F10	125	F10/F07	70	17.9	35	6*6
150	6	61	197	215	70	130	45	F10	125	F10/F07	70	21.85	45	8*8
200	8	75	227	260	80	171	60	F12	150	F12/F10	125	29.85	45	8*8
250	10	85	271	310	100	222	83	F14	175	F14/F12	140	37.7	65	10*8
300	12	94	313	335	120	269	104	F16	210	F16/F14	140	44.7	65	12*8
350	14	117	356	368	120	294	110	F16	210	F16/F14	165	49.7	80	16*10
400	16	133	388	410	150	341	127	F25	300	F25	300	59.7	80	18*12
450	18	149	418	450	150	381	141	F25	300	F25	300	64.7	90	18*12
500	20	159	453	485	150	426	160	F30	350	F30	350	74.7	110	20*12
600	24	181	520	568	150	511	194	F30	350	F30	350	79.5	120	24*16
650	26	210	554	595	180			F35	415	F35	415	99.3	100	28*16
700	28	229	589	685	180			F35	415	F35	415	104.3	105	28*16
750	30	230	634	735	180			F40	475	F40	475	114.3	115	32*18
800	32	241	664	765	200			F40	475	F40	475	119.3	120	32*18
900	36	241	704	780	200			F40	475	F40	475	134.3	135	36*20

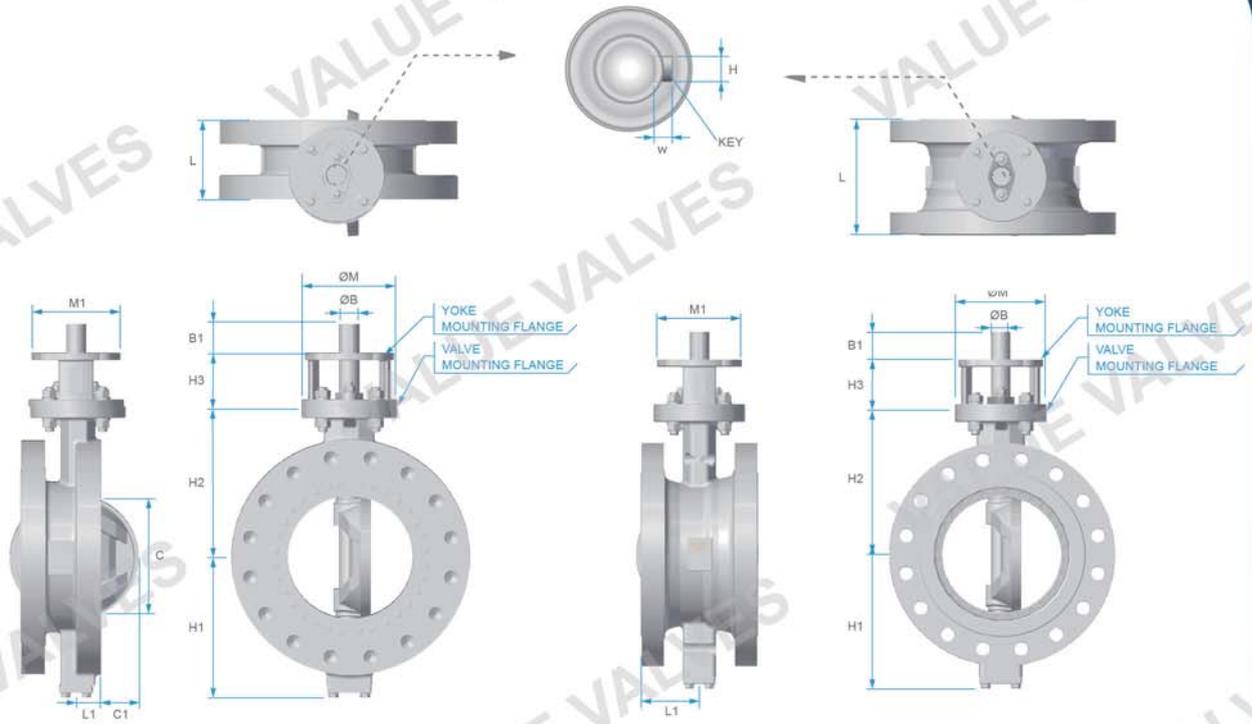
* Other dimensions please consult with Value Valves. * Inside Pipe Diameter > C

DN 100~900
INCH 4~36

VF-886A VF-887A VF-888A

ANSI CLASS 300LB

DIMENSIONS



VF-886A FLANGE TYPE ■

VF-887A VF-888A FLANGE TYPE ■

Unit : mm

Size		Face to Face						Dimensions				Mounting flange (ISO 5211)				Shaft end			
mm	Inch	VF-886A		VF-887A		VF-888A		H1	H2	H3	VF-886A		VALVE		Yoke		φB	B1	Key (H*W)
		L1	L	L1	L	L1	L				C	C1	Type	ØM	Type	M1			
100	4	27	127	95	190	95	305	162	165	70	70	17	F10	125	F10/F07	70	17.9	35	6*6
150	6	32.5	140	105	210	105	403	197	215	70	121	35	F10	125	F10/F07	70	21.85	45	8*8
200	8	38.5	152	115	230	115	418	227	260	80	162	50	F12	150	F12/F10	125	29.85	45	8*8
250	10	46.5	165	125	250	125	457	271	310	100	209	66	F14	175	F14/F12	140	37.7	65	10*8
300	12	52	178	135	270	135	502	313	335	120	256	85	F16	210	F16/F14	140	44.7	65	12*8
350	14	62.5	190	145	290	145	762	356	368	120	279	90	F16	210	F16/F14	165	49.7	80	16*10
400	16	70.5	216	155	310	155	838	388	410	150	326	107	F25	300	F25	300	59.7	80	18*12
450	18	78.5	222	165	330	165	914	418	450	150	367	122	F25	300	F25	300	64.7	90	18*12
500	20	83.5	229	175	350	175	991	453	485	150	411	139	F30	350	F30	350	74.7	110	20*12
600	24	94.5	267	195	390	195	1143	520	568	150	496	172	F30	350	F30	350	79.5	120	24*16
650	26	—	292	205	410	205	1245	554	595	180	—	—	F35	415	F35	415	99.3	150	28*16
700	28	—	292	215	430	215	1346	589	685	180	—	—	F35	415	F35	415	104.3	180	28*16
750	30	—	318	225	450	225	1397	634	735	180	—	—	F40	475	F40	475	114.3	180	32*18
800	32	—	318	235	470	235	1525	664	765	200	—	—	F40	475	F40	475	119.3	200	32*18
900	36	—	330	255	510	255	1727	704	780	200	—	—	F40	475	F40	475	134.3	200	36*20

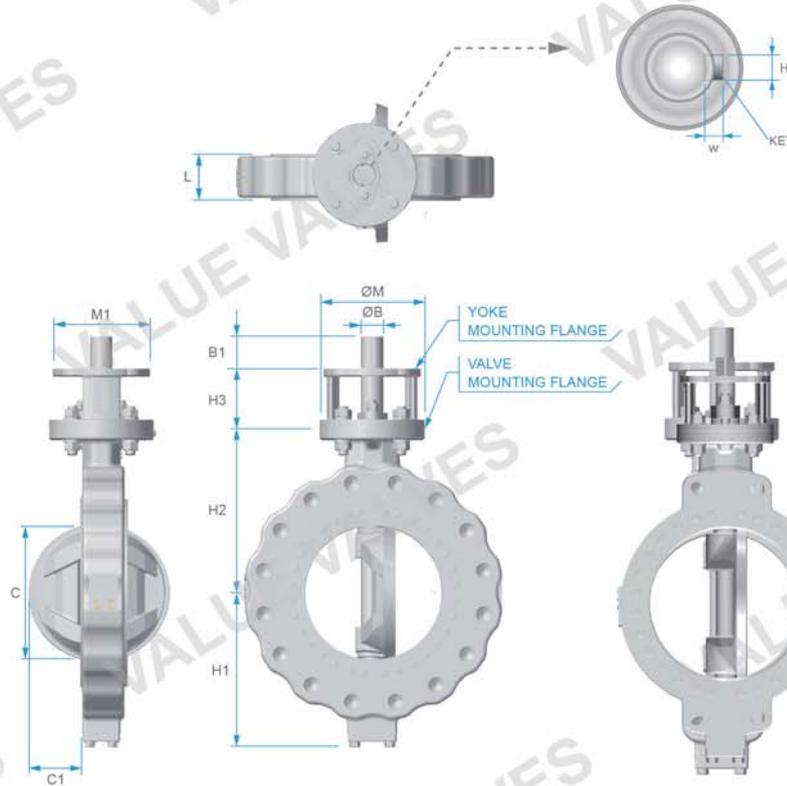
* Other dimensions please consult with Value Valves. *Inside Pipe Diameter > C

VF-890A VF-893A Series

DN 100~600
INCH 4~24

ANSI CLASS 600

DIMENSIONS



VF-893A LUG TYPE

VF-890A WAFER TYPE

Unit : mm

Size		Face to Face	Dimensions					Mounting flange (ISO 5211)				Shaft end		
mm	Inch	L	H1	H2	H3	C	C1	VALVE		Yoke		φB	B1	Key
								Type	ØM	Type	M1			
100	4	64	181	200	80	80	24	F12	150	F12/F10	125	27.85	55	8*8
150	6	78	246	240	100	128	42	F14	175	F14/F12	140	31.85	65	8*8
200	8	102	265	310	120	166	53	F16	210	F16/F14	165	41.7	70	12*8
250	10	117	309	355	150	199	65	F25	300	F25	300	44.7	80	12*8
300	12	140	351	405	150	242	78	F25	300	F25	300	59.7	110	18*12
350	14	155	376	450	150	275	91	F30	350	F30	350	69.7	110	20*12
400	16	178	414	495	180	320	106	F35	415	F35	415	79.5	150	24*16
450	18	200	445	520	180	357	116	F35	415	F35	415	89.5	180	25*14
500	20	216	488	580	180	400	133	F35	415	F35	415	99.3	180	32*18
600	24	232	566	620	200	490	170	F40	475	F40	475	119.3	200	32*18

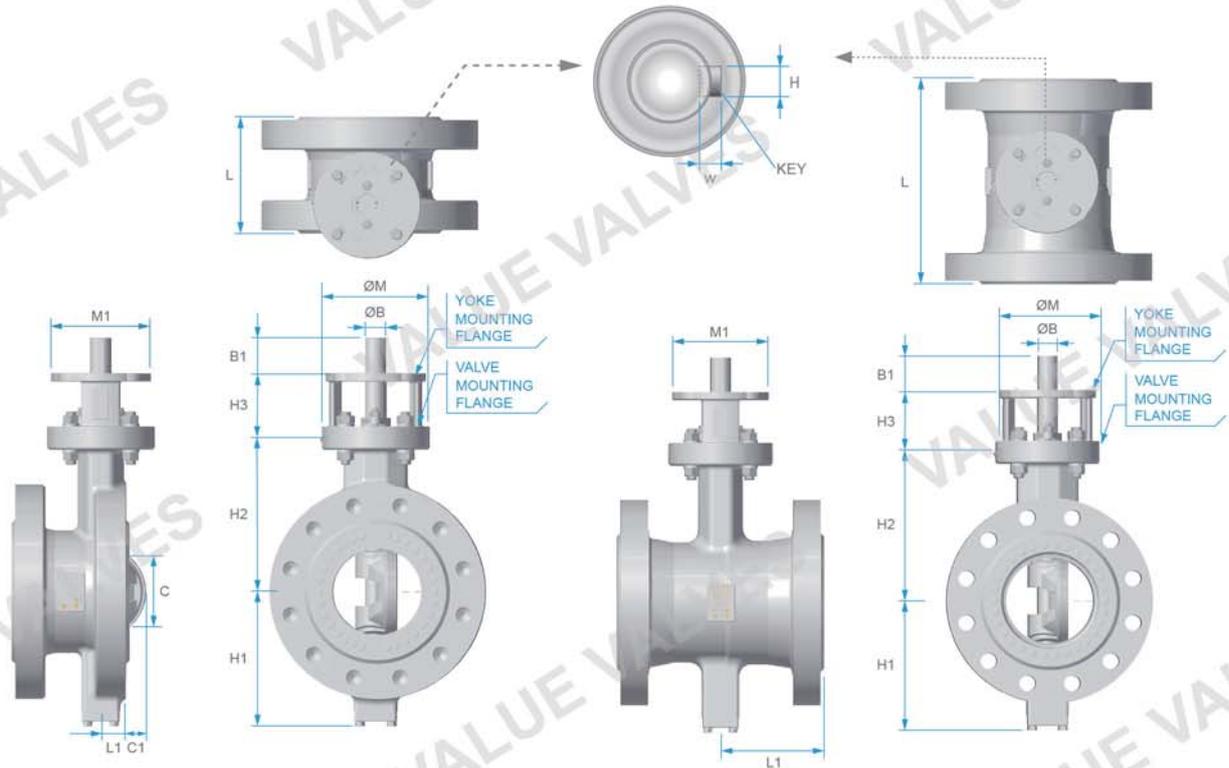
* Other dimensions please consult with Value Valves. *Inside Pipe Diameter > C

DN 100~600
INCH 4~24

VF-896A 897A 898A

ANSI CLASS 600LB

DIMENSIONS



VF-896A FLANGE TYPE

VF-897A VF-898A FLANGE TYPE

Unit : mm

Size		Face to Face						Dimensions					Mounting flange (ISO 5211)			Shaft end			
mm	Inch	VF-896A		VF-897A		VF-898A		H1	H2	H3	C	C1	VALVE		Yoke		φB	B1	Key
		L1	L	L1	L	L1	L						Type	ØM	Type	M1			
100	4	37	190	-	-	-	-	181	200	80	42	5	F12	150	F12/F10	125	27.85	55	8*8
150	6	44	210	201.5	403	201.5	559	246	240	100	103	23	F14	175	F14/F12	140	31.85	65	8*8
200	8	56	230	209.6	419	209.6	660	265	310	120	138	32	F16	210	F16/F14	165	41.7	70	12*8
250	10	63.5	250	251	457	251	787	309	355	150	169	40	F25	300	F25	300	44.7	80	12*8
300	12	75	270	251	502	251	838	351	405	150	212	53	F25	300	F25	300	59.7	110	18*12
350	14	82.5	290	286	572	286	889	376	450	150	244	63	F30	350	F30	350	69.7	110	20*12
400	16	94	310	305	610	305	991	414	495	180	289	77	F35	415	F35	415	79.5	150	24*16
450	18	105	330	330	660	330	1092	445	520	180	325	88	F35	415	F35	415	89.5	180	25*14
500	20	113	350	355.5	711	355.5	1194	488	580	180	366	101	F35	415	F35	415	99.3	180	32*18
600	24	121	395	393.5	787	393.5	1391	566	620	200	461	138	F40	475	F40	475	119.3	200	32*18

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

PRESSURE TEMPERATURE RATING

WCB

Material		WCB*(a)		
Temp.		Bar	Bar	Bar
°F	°C	150LB	300LB	600LB
-21 to 101	-29 to 38	19.6	51.1	102.1
122	50	19.2	50.1	100.2
212	100	17.7	46.6	93.2
302	150	15.8	45.1	90.2
392	200	13.8	43.8	87.6
482	250	12.1	41.9	83.9
572	300	10.2	39.8	79.6
617	325	9.3	38.7	77.4
662	350	8.4	37.6	75.1
707	375	7.4	36.4	72.7
752	400	6.5	34.7	69.4
797	425	5.5	28.8	57.5
842	450	4.6	23.0	46.0
887	475	3.7	17.4	34.9
932	500	2.8	11.8	23.5
1001	538	1.4	5.9	11.8

NOTE:

a. Upon prolonged exposure to temperatures above 425 °C, the carbide phase of steel may be converted graphite. Permissible, but not recommended for prolonged use above 425 °C.

b. At temperatures above 538°C, use only when the carbon content is 0.04% or higher.

c. Flanged-end valve ratings terminate at 538 °C.

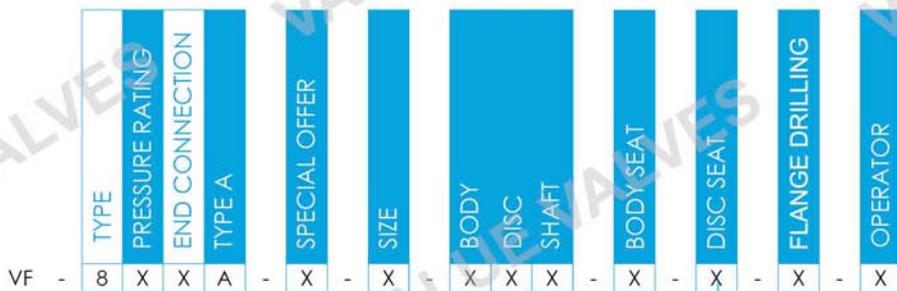
CF8

Material		CF8*(b)		
Temp.		Bar	Bar	Bar
°F	°C	150LB	300LB	600LB
-21 to 101	-29 to 38	19.0	49.6	99.3
122	50	18.3	47.8	95.6
212	100	15.7	40.9	81.7
302	150	14.2	37.0	74.0
392	200	13.2	34.5	69.0
482	250	12.1	32.5	65.0
572	300	10.2	30.9	61.8
617	325	9.3	30.2	60.4
662	350	8.4	29.6	59.3
707	375	7.4	29.0	58.1
752	400	6.5	28.4	56.9
797	425	5.5	28.0	56.0
842	450	4.6	27.4	54.8
887	475	3.7	26.9	53.9
932	500	2.8	26.5	53.0
1001	538	1.4	24.4	48.9
1022	550	1.4*(c)	23.6	47.1
1067	575	1.4*(c)	20.8	41.7
1112	600	1.4*(c)	16.9	33.8
1157	625	1.4*(c)	13.8	27.6
1202	650	1.4*(c)	11.3	22.5
1247	675	1.4*(c)	9.3	18.7
1292	700	1.4*(c)	8.0	16.1
1337	725	1.4*(c)	6.8	13.5
1382	750	1.4*(c)	5.8	11.6
1427	775	1.4*(c)	4.6	9.0
1472	800	1.2*(c)	3.5	7.0
1501	816	1.0*(c)	2.8	5.9

CF8M

Material		CF8M*(b)		
Temp.		Bar	Bar	Bar
°F	°C	150LB	300LB	600LB
-21 to 101	-29 to 38	19.0	49.6	99.3
122	50	18.4	48.1	96.2
212	100	16.2	42.2	84.4
302	150	14.8	38.5	77.0
392	200	13.2	35.7	71.3
482	250	12.1	33.4	66.8
572	300	10.2	31.6	63.2
617	325	9.3	30.9	61.8
662	350	8.4	30.3	60.7
707	375	7.4	29.9	59.8
752	400	6.5	29.4	58.9
797	425	5.5	29.1	59.3
842	450	4.6	28.8	57.7
887	475	3.7	28.7	57.3
932	500	2.8	28.2	56.5
1001	538	1.4	25.2	50.0
1022	550	1.4*(c)	25.0	49.8
1067	575	1.4*(c)	24.0	47.9
1112	600	1.4*(c)	19.9	39.8
1157	625	1.4*(c)	15.8	31.6
1202	650	1.4*(c)	12.7	25.3
1247	675	1.4*(c)	10.3	20.6
1292	700	1.4*(c)	8.4	16.8
1337	725	1.4*(c)	7.0	14.0
1382	750	1.4*(c)	5.9	11.7
1427	775	1.4*(c)	4.6	9.0
1472	800	1.2*(c)	3.5	7.0
1501	816	1.0*(c)	2.8	5.0

GENERAL ORDERING INFORMATION



PRESSURE RATING	
7	ANSI CLASS 150LB
8	ANSI CLASS 300LB
9	ANSI CLASS 600LB
0	OTHERS

END CONNECTION	
0	WAFER
3	LUG
6	FLANGE (SHORT)
7	FLANGE (LONG)
8	FLANGE (GATE)

SPECIAL OFFER	
H	HIGH TEMP. (350°C~760°C) (662°F ~1400°F)
L	CRYOGENIC (-40°C~-100°C) (-40°F ~-148°F)
J	JACKET
E	EMISSION
0	OTHERS

SIZE	mm
04	100
06	150
08	200
10	250
12	300
14	350
16	400
18	450
20	500
24	600
26	650
28	700
30	750
32	800
34	850
36	900
38	950
40	1000
42	1050
44	1100
46	1150
48	1200

BODY		DISC		SHAFT	
WB	WCB	WB	WCB	XM	XM-19
13	CF8	13	CF8	D2	SS 32205
14	CF8M	14	CF8M	10	A182 F6a
0	OTHER	0	OTHER	63	SS 630
				0	OTHER

OTHER MATERIALS					
BODY		DISC		SHAFT	
LB	LCB	LB	LCB	IN	INCONEL
42	WC6	42	WC6	MO	MONEL
3L	CF3	3L	CF3	HA	HASTELLOY
6L	CF3M	6L	CF3M	20	ALLOY 20
8M	CG8M	8M	CG8M	TI	TI
7L	CG3M	7L	CG3M	TT	316Ti
IN	INCONEL	IN	INCONEL	D3	S32750
MO	MONEL	MO	MONEL		
HA	HASTELLOY	HA	HASTELLOY		
20	ALLOY20	20	ALLOY20		
TI	TI	TI	TI		
TT	316Ti	TT	316Ti		
5A	A890 5A	5A	A890 5A		

OPERATOR	
N	BARE SHAFT
G	GEAR BOX
P	PNEUMATIC
E	ELECTRIC

DISC SEAT	
ST6	STELLITE #6
ST2	STELLITE #21
HP	HARD CHROME PLATED

BODY SEAT		
M-34	MATEL SEAT	A240 Gr. 304
M-16	MATEL SEAT	A240 Gr. 316
M-D2	MATEL SEAT	UNS S32205
M-XM	MATEL SEAT	A479 XM-19
M-63	MATEL SEAT	SS 630
L-34G	LAMINATED SEAT	A240 Gr. 304+GRAPHITE
L-16G	LAMINATED SEAT	A240 Gr. 316+GRAPHITE
L-D2G	LAMINATED SEAT	UNS S32205+GRAPHITE
L-XMG	LAMINATED SEAT	A479 XM-19+GRAPHITE
0	LAMINATED SEAT	OTHER

FLANGE DRILLING	
A	ANSI 150LB
B	PN10
C	PN16
D	PN20
E	PN25
F	JIS 10K
G	JIS 16K
H	JIS 20K
K	A.S. 10 Table E
L	ANSI 300LB
M	PN40
N	300LB PN50
O	JIS 30K
P	JIS 40K
Q	600LB ANSI 600LB
R	900LB ANSI 900LB

Note: Example
VF-870A-E-08-WB13XM-M-D2-ST6-P-N

Shall be a:

Triple offset butterfly valve(8) - ANSI 150LB(7) - Wafer Type(0) - TYPE A(A) - Emission(E) - DN200(08)
WCB Body(WB) - CF8 Disc(13) - Shaft in XM-19(XM) - Body seat in UNS S32205(M-D2)
Disc seat in Stellite #6(ST6) - Flange Drilling in JIS 40K (P) - Bare Shaft(N)

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

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



www.valuevalves.com

VALUE VALVES CO., LTD.

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

VALUE VALVES (SuZhou) LTD.

TEL : +86-512-66558783
FAX : +86-512-66553063
ADD : No.2, WangShan Road, Economic Development Zone,
WangShan, Photoelectricity Industrial Park, Suzhou,
Jiang Su, China 215104

