VALUEVALVES

VF-9 Series

Double Eccentric

Value Valves is the only company in Taiwan and one of the small number companies in Asia could announce that it has successfully completed the Safety Integrity Level 3 according to IEC 61508-1 and ISO 9001 of VF-9 Series high performance butterfly valves in full series by TUV.

FEATURES AND BENEFITS

- It Awarded the PED Module H Pressure equipment container verification.
- . Body hardness accord to API 598 and ASME B16.34.
- VF-94/VF-95/VF-96 Series ANSI CLASS 300 LB: Special dust-proof design of shaft to prevent the corrosion fluids into the shaft and cause stuck. It's suitable for most of the applications of Petrochemical, Oil Refining, Air Separation · CDA with different temperature and pressure.
- Emission test to TA-LUFT, ISO 15848-1, ANSI/ISA-SP-93.
- · The full series passed the GOST.
- Manufacture License of Special Equipment People's Republic test to TSG D7002.
- VF-93 and VF-96 Series metal seat design for leakage rated at ANSI FCI 70-2-2003 Table 1 CLASS V
- The full series obtained the SIL3 certificate according to IEC 61508-1.
- The mounting top meets ISO 5211 which could be easy to install actuators and extension stem used for high and low temperature.
- One-Piece shaft design is Blow-Out Proof ATEX according to ATEX 94/9/CE Group II Category 2 GD and is equipped with Anti-Static devices.
- · Size:

ANSI CLASS 150LB : 2"~48"(50mm~1200mm); ANSI CLASS 300LB : 2.5"~24"(65mm~600mm) =

Pressure Rating : - -

ANSI CLASS 150LB : PN25 ANSI CLASS 350LB : PN50



- Patented Seat Retainer Ring attaches without bolts allowing complete uninterrupted seal face with all VF-9 series.
- VF-9 series is designed to be 90 degrees rotary and torque seated, the seat is chosen by Teflon Seat and Metal Seat.
- The design of heating jacket and flashing nozzles are available on customers' requirement which apply to the temperature changes prevent fluid crystallization.
- Temperatures Range:
 VF-91/VF-94 Series-Soft Seat:-20 °F ~410 °F (-29°C ~ 210°C)
 VF-92/VF-95 Series- Fire Seat:-20 °F ~410 °F (-29°C ~ 210°C)
 VF-93/VF-96 Series-Metal Seat:-20 °F ~932 °F (-29 °C ~ 500°C)
- · Three types with different applications:
 - VF-91 & 94 series, soft seat design with temperature using limits.
 Usually apply to the temperature under 427 °F (220°C).
 - VF-92 & 95 series. Fire safe design with API 607.
 - VF-93 and VF-96 series, is suitable for the normal atmospheric temperature location of Petrochemical industry, the high temperature over 932 °F (500°C)location of Petrochemical and Oil Refining. Value Valves VF-9 series can be provided on customer's requirements.
- Standard material is A216WCB · A351CF8 · A351CF8M, more detail please consult with VALUE VALVESCO ..LTD.













APPLICATIONS

Oil Refining

Air Separation

Fossil & Cogeneration Power

Petrochemical

Steel Mill

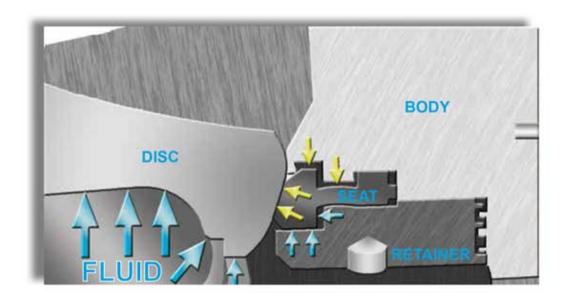
LNG

Refinery

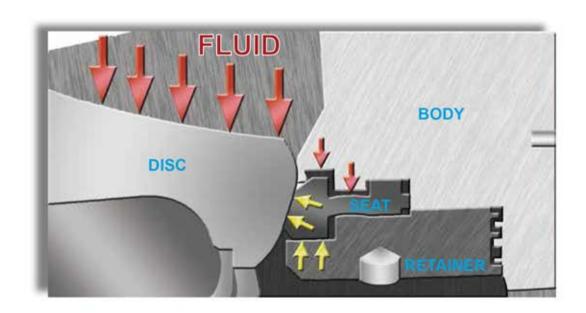
Pulp & Paper

CDA

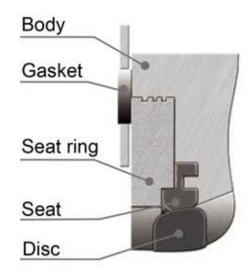
PRESS ASSISTED to GIVE BI-DIRECTIONAL



Special design of floatable retainer and seat cause the better sealing effect, bi-directional function, and increase the life cycle upper to two million times.



SPECIFICATION



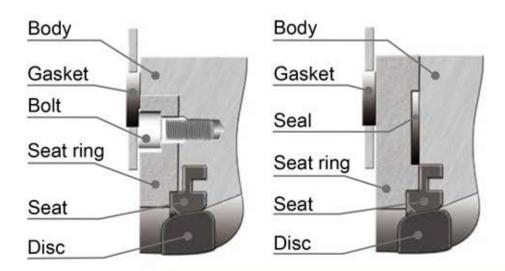
Value's Patent Design

Special twin thread design between Body and Retainer to offer:

- Wider sealing face between flanges.
- 100% sealing between retainer and body.
- When long time storage, valve was in fully closed position and the seat ring was fix by retainer, it will not cause PTFE enlarge.
- The retainer has to be at upstream when valve was installed at dead end of pipeline.
- NOTE: Retanining ring must be up stream for dead end service.

Conventional Design

- The seat retainer of some brands extended as a flange surface, which has to be sealed by a gasketand increase a risk of leakage.
- Most of the seat retainer was fixed by socket bolts, which caused reducing sealing face between flanges and increase a risk of leakage.
- When long time storage, valve was in fully closed position and the seat ring was fix by retainer, it maycause PTFE enlarge and leaking when service.



JIS 10K · 16K · 20K

TORQUE CHART (Nm) - including 30% Safety Factor

ISO PN 10~PN 25

			-	VF	-91_Series		
Si	ize		1	Differential pre	essure (kg/cm	²)	
mm	inch	0	5	10	15	20	25
50	2"	13	15	17	20	22	25
65	2.5"	19	22	29	35	41	51
80	3"	26	29	37	44	51	59
100	4"	35	41	51	61	77	85
125	5"	51	64	76	89	105	127
150	6"	62	83	103	118	147	176
200	8"	89	114	147	166	204	242
250	10"	150	211	261	309	394	489
300	12"	196	294	374	539	625	828
350	14"	382	539	784	980	1176	1323
400	16"	573	686	980	1176	1372	1568
450	18"	783	963	1225	1470	1666	1911
500	20"	1000	1411	1764	2058	2470	2822
600	24"	1225	1680	2205	2660	3045	3325

				VF	-92_Series		
Si	ize			Differential pre	ssure (kg/cm	')	Arron
mm	inch	0	5	10	15	20	25
50	2"	29	32	39	43	49	59
65	2.5"	37	46	61	69	83	97
80	3"	50	61	76	92	107	127
100	4"	76	88	103	118	140	162
125	5"	118	137	170	194	223	242
150	6"	147	196	225	265	294	333
200	8"	176	235	294	353	421	480
250	10"	255	323	421	480	568	647
300	12"	333	470	549	686	862	1009
350	14"	461	725	833	990	1196	1421
400	16"	657	960	1264	1509	1686	1882
450	18"	843	1058	1362	1705	2087	2646
500	20"	1078	1382	1803	2166	2920	3410
600	24"	1274	1617	2225	2783	3783	4704

			T	VF	-93_Series		**
Si	ze			Differential pre	essure (kg/cm	²)	
mm	inch	0	5	10	15	20	25
50	2"	39	49	59	65	75	82
65	2.5"	46	56	78	102	127	147
80	3"	56	71	88	118	140	167
100	4"	78	102	122	157	178	216
125	5"	108	140	154	182	211	248
150	6"	137	169	199	232	265	319
200	8"	206	255	294	333	372	434
250	10"	265	333	402	470	578	686
300	12"	372	461	559	735	931	1176
350	14"	539	676	843	1019	1245	1421
400	16"	764	990	1225	1490	1764	2058
450	18"	902	1107	1441	1803	2205	2871
500	20"	1294	1411	1882	2352	2940	3410
600	24"	1529	1764	2176	2940	4077	6076

ANSI CLASS 300LB

JIS 30K - 40K

ISO PN 40~PN 50

TORQUE CHART (Nm)-including 30% Safety Factor

			_		VF-94	Series		-
Si	ze			Different	tial pressure	(kg/cm²)		140
mm	inch	0	10	15	20	30	40	50
65	2.5"	19	29	35	41	53	63	75
80	3"	26	37	44	51	76	91	108
100	4"	35	51	61	77	110	131	155
125	5"	51	76	89	105	159	189	224
150	6"	75	109	125	168	228	272	322
200	8"	102	156	199	248	321	384	455
250	10"	206	382	476	583	764	934	1106
300	12"	434	616	704	852	1067	1230	1456
350	14"	461	900	1132	1368	1658	1918	2270
400	16"	695	1227	1524	1712	2102	2461	2912
450	18"	953	1967	2053	2242	2803	3406	4031
500	20"	1212	2300	2322	2477	2956	3480	4118
600	24"	3040	5300	6074	6197	6890	7191	8510

Si	ze			Differen	tial pressure	(ka/cm²)		
mm .	inch	0	10	15	20	30	40	50
65	2.5"	37	61	69	83	83	90	101
80	3"	50	76	92	107	113	129	145
100	4"	76	103	118	140	150	171	192
125	5"	118	170	194	223	234	267	301
150	6"	144	289	289	337	337	385	433
200	8"	433	458	458	610	610	762	762
250	10"	533	685	685	762	762	1066	1143
300	12"	533	839	914	1066	1066	1143	1312

					VF-96	Series				
Si	ze	Differential pressure (kg/cm²)								
mm	inch	0	10	15	20	30	40	50		
65	2.5"	46	78	102	127	130	130	140		
80	3"	56	88	118	140	150	163	155		
100	4"	78	122	157	178	180	196	223		
125	5"	108	154	182	211	211	234	267		
150	6"	192	240	240	240	288	337	385		
200	8"	381	458	533	533	610	610	761		
250	10"	685	991	991	1066	1066	1219	1219		
300	12"	761	991	1066	1066	1295	1446	1676		

^{*}VF-95_ and VF-96_ Series, 14" and up please contact to Value Valves. *Other dimensions please consult with Value Valves.

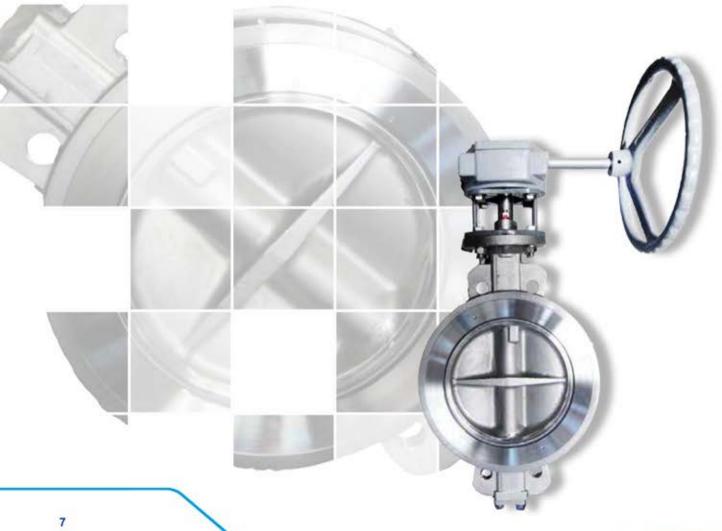
ISO PN 10-PN 25

CV FLOW COEFFICIENT

VF-91_ / VF-92_ / VF-93_Series

					0			150 L	В		
Si	ze				Pe	ercent of F	Rated Tra	vel			
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
50	2"	4	13	26	39	72	126	153	204	233	153
65	2.5"	7	23	45	66	122	214	258	345	393	259
80	3"	10	34	68	101	185	324	391	523	596	392
100	4"	11	41	72	110	214	375	416	541	575	613
125	5"	17	53	106	157	290	506	611	816	931	958
150	6"	24	77	152	226	417	728	880	1176	1340	1379
200	8"	42	137	271	402	546	765	993	1303	1450	1750
250	10"	125	305	492	279	554	768	984	2060	2440	2667
300	12"	170	415	669	965	1300	1755	3059	3454	3849	4366
350	14"	222	506	796	1165	1614	2241	3122	4230	5360	5964
400	16"	172	537	902	1324	1904	2485	3703	5395	6887	7762
450	18"	392	946	1456	2040	2816	3918	5416	7061	8535	9354
500	20"	513	1197	1834	2558	3505	4943	7188	9097	11011	11824
600	24"	845	1861	2752	3911	5501	7664	10840	14424	18347	19862

^{*}Other dimensions please consult with Value Valves.



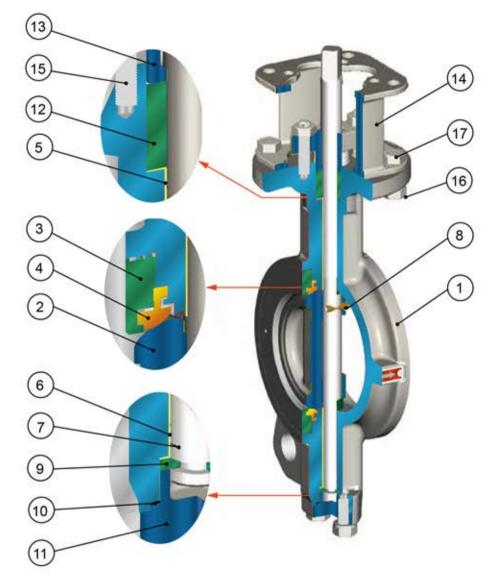
VF-94_ / VF-95_ / VF-96_Series

								300L	В		
Si	ze				P	ercent of F	Rated Trav	/el			
mm	inch	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
65	2.5"	7	23	45	66	122	214	258	345	393	259
80	3"	10	34	68	101	185	324	391	523	596	392
100	4"	11	41	72	110	214	375	416	541	575	613
125	5"	17	53	106	157	290	506	611	816	931	958
150	6"	21	67	149	217	350	680	800	950	1250	1270
200	8"	34	119	235	369	533	719	970	1227	1514	1631
250	10"	72	213	391	579	804	1058	1436	1870	2313	2492
300	12"	104	297	516	798	1171	1660	2299	2996	3816	3985
350	14"	122	384	678	1042	1527	2106	2893	3824	4580	4792
400	16"	245	476	968	1410	2042	2751	3779	5027	6115	6408
450	18"	310	603	1225	1784	2585	3482	4714	6227	7784	8191
500	20"	382	744	1512	2202	3191	4299	6207	8082	10227	10928
600	24"	550	1072	2178	3172	4596	6190	8938	11638	14726	1573

^{*}Other dimensions please consult with Value Valves.

ISO PN 10-PN 25

PARTS AND MATERIALS VF-91_SERIES



Construction Details

Integral Stop Body (1) - To prevent disc from over travel.

Retainer (3) - Patented design of square thread, ensures an un-interupted sealing face. Flange face equipped with 125 -200AARH finish and is compatible with both flat and spiral wound gaskets.

Teflon Seat (4) - Pressure assisted to give Bi - directional bubble tight shut off at all pressures.

(Valve must be installed with retaining ring upstream for dead end service.)

Bushing(5&6) - Upper and Lower bearings are constructed of PTFE impregnated 316 SS.

Stem (7) - Design with ISO 5211.

Thrust Ring (9) - Anti blow out shaft and Anti static design.

Packing (12) - Multiply Row of Teflon Chevron.

Yoke (14) - Investment Cast, per ISO 5211.

^{*} Fugitive Emissions Packing System is available on customer required.

ANSI CLASS 150LB

JIS 10K · 16K · 20K

ISO PN 10~PN 25

PARTS AND MATERIALS VF-91_SERIES

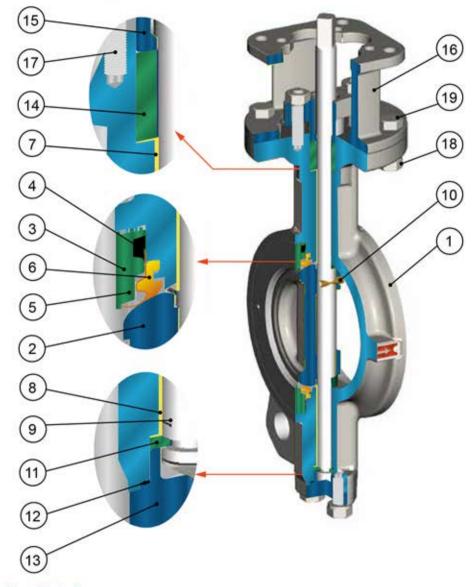
		VF-91_			
No.	Name	Material	Sp	ecification	Remark
			JIS	ASTM	
		CARBON STEEL	SC480	A216 Gr. WCB	
4	BODY		SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	Disc edge has to be har
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	chrome plated when
			SCS 16A	A351 Gr. CF3M	equipped RTFE seat
			SCS 13A	A351 Gr. CF8	
3	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
	TEFLON	PTFE			-29℃ ~ 160℃
4	SEAT	PTFE+15%GLASS FIBER	RPTFE		-29℃ ~ 180℃
		PTFE+15%GRAPHITE	RPTFE		-29℃ ~ 210℃
5	BUSHING	PTFE+316SS			
6	BUSHING	PTFE+316SS			
			SUS 304	A182 Gr. F304	Stem has to be hard
7	STEM	STAINLESS STEEL	SUS 316	A182 Gr. F316	chrome plated when
500	170177555		630SS	A564 Gr. 630	equipped with PTFE +
	0.000		XM-19	A479 Gr. XM-19	Graphite gland packing
8	PIN	STAINLESS STEEL	SUS 316	A182 Gr. F316	
9	THRUST	STAINLESS STEEL	SUS 316	A240 Gr. 316	
10	SEAL	PTFE			
			SCS 13A	A351 Gr. CF8	
11	BOTTOM	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
1.1	COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC480	A216 Gr. WCB	
12	GLAND PACKING	PTFE PTFE+15%GRAPHITE	RPTFE		-29℃~ 160℃ -29℃~ 210℃
44			SCS 13A	A351 Gr. CF8	
13	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
4.4	VOVE	DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	*(1)
14	YOKE	CARBON STEEL	SC480	A216 Gr. WCB	77.07
15	STUD	STAINLESS STEEL	SUS 304	A193 Gr. B8	
16	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
17	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	

Remark:

- No. 14 materials A216 Gr. WCB is only available for F07/F05, F10/F07, F12/F10, F14/F12, F16/F14 and A536 65-45-12 for F16, F25, F30, F35, F40.
- 2. Each materials can provide on different process of customer's requirements.

ISO PN 10-PN 25

PARTS AND MATERIALS VF-92_SERIES



Construction Details

Integral Stop Body (1) - To prevent disc from over travel.

Retainer (3) - Patented design of square thread, ensures an un-inversed sealing face. Flange face equipped with 125 - 200 AARH finish and is compatible with both flat and spiral wound gaskets.

Firesafe Seat (5&6) - Bi - directional soft seat(6) design for zero leakage in normal operation and a metal-to-metal seal(5) after fire, meeting "Fire-safe" requirement. (Valve must be installed with retaining ring upstream for dead end service.)

Bushing(7&8) - Upper andLower bearings are constructed of PTFE impregnated 316 SS.

Stem (9) - Design with ISO 5211.

Thrust Ring (11) - Anti blow out shaft and Anti static design.

Packing (14) - Graphite packing ensures no leakage during fire.

Yoke (16) - Investment Cast, per ISO 5211.

^{*} Fugitive Emissions Packing System is available on customer required.

ANSI CLASS 150LB JIS 10K · 16K · 20K

ISO PN 10-PN 25

PARTS AND MATERIALS VF-92_SERIES

	3	VF-92_			
No.	Name	Material	Speci	ification	Remark
			JIS	ASTM	
		CARBON STEEL	SC 480	A216 Gr. WCB	
2	DODY		SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	Disc edge equipped
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	with hard chrome
			SCS 16A	A351 Gr. CF3M	plated
			SCS 13A	A351 Gr. CF8	
3	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
4	GASKET	GRAPHITE			
5	METAL SEAT	STAINLESS STEEL	INCONEL ALLOY	B637 FORGING STOCK	
		PTFE			-29°C ~ 160°C
6	SEAT	PTFE+15%GLASS FIBER	RPTFE		-29°C ~ 180°C
		PTFE+15%GRAPHITE	RPTFE		-29°C ~ 210°C
7	BUSHING	PTFE+316SS			
8	BUSHING	PTFE+316SS			
			SUS 304	A182 Gr. F304	
9	STEM	STAINLESS STEEL	SUS 316	A182 Gr. F316	Stem Equipped Wit
9	SIEW	STAINLESS STEEL	630 SS	A564 Gr. 630	Hard Chrome Plate
			XM-19	A479 Gr. XM-19	
10	PIN	STAINLESS STEEL	SUS 316	A182 Gr. F316	
11	THRUST RING	STAINLESS STEEL	SUS 316	A240 Gr. 316	
12	SEAL	GRAPHITE			
			SCS 13A	A351 Gr. CF8	
13	BOTTOM	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
13	COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC 480	A216 Gr. WCB	
14	GLAND PACKING	GRAPHITE			
15	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
10	GLAND	OTAMINEE OO OTEEL	SCS 16A	A351 Gr. CF3M	
16	YOKE	DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	*(1)
10		CARBON STEEL	SC 480	A216 Gr. WCB	
17	STUD	STAINLESS STEEL	SUS 304	A193 Gr. B8	
18	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
19	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	

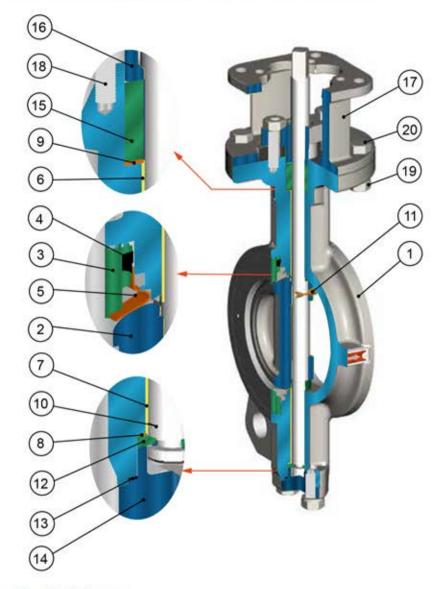
Remark:

No. 16 materials A216 Gr. WCB is only available for F07/F05, F10/F07, F12/F10, F14/F12, F16/F14 and A536 65-45-12 for F16, F25, F30, F35, F40.

^{2.} Each materials can provide on different process of customer's requirements.

ISO PN 10-PN 25

PARTS AND MATERIALS VF-93_SERIES



Construction Details

Integral Stop Body (1) - To prevent disc from over travel.

Retainer (3) - Patented design of square thread, ensures an un-interupted sealing face. Flange face equipped with 125 - 200 AARH finish and is compatible with both flat and spiral wound gaskets.

Metal Seat (5) - Bi-direction self sealing metal seat design for leakage rated at Class IV per ANSI FCI 70-2 or better. (Retaining ring fixed at upstream when dead end service.)

Bushing(6&7) - Upper and Lower bearings are constructed of 316 SS Nitrided.

Stem (10) - Design with ISO 5211.

Thrust Ring (12) -Anti blow out shaft and Anti static design.

Packing (15) - Graphite packing suit for high temperature service.

Yoke (17) - Investment Cast, per ISO 5211.

^{*} Fugitive Emissions Packing System is available on customer required.

ANSI CLASS 150LB

HS 10K - 16K - 20K

ISO PN 10-PN 25

PARTS AND MATERIALS VF-93_SERIES

		VF-93_			
No.	Name	Material	S	pecification	Remark
			JIS	ASTM	
		CARBON STEEL	SC 480	A216 Gr. WCB	
	DODY		SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	Diagram and and
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	Disc edge equipped with hard chrome plate
			SCS 16A	A351 Gr. CF3M	with hard chrome plate
			SCS 13A	A351 Gr. CF8	
3	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
4	GASKET	GRAPHITE			
-	METAL	STAINI ESS STEEL	INCONEL	B637 FORGING	
5	SEAT	STAINLESS STEEL	ALLOY	STOCK	
6	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
7	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
8	WASHER	STAINLESS STEEL	SUS 316	A240 Gr. 316	
9	WASHER	STAINLESS STEEL	SUS 316	A240 Gr. 316	
			SUS 304	A182 Gr. F304	
10	STEM	STAINLESS STEEL	SUS 316	A182 Gr. F316	Stem Equipped With
10	STEW	STAINLESS STEEL	630 SS	A564 Gr. 630	Hard Chrome Plated
			XM-19	A479 Gr. XM-19	
11	PIN	STAINLESS STEEL	SUS 316	A182 Gr. F316	
12	THRUST	STAINLESS STEEL	SUS 316	A240 Gr. 316	
12	RING	STAINLESS STEEL	303 310	A240 GI. 3 IO	
13	SEAL	GRAPHITE			
			SCS 13A	A351 Gr. CF8	
14	BOTTOM	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
1.4	COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC 480	A216 Gr. WCB	
15	GLAND PACKING	GRAPHITE			
16	GLAND	STAINI ESS STEEL	SCS 13A	A351 Gr. CF8	
10	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
17	YOKE	DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	*(1)
17	TUKE	CARBON STEEL	SC 480	A216 Gr. WCB	35/33
18	STUD	STAINLESS STEEL	SUS 304	A193 Gr. B8	
19	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
20	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	

Remark:

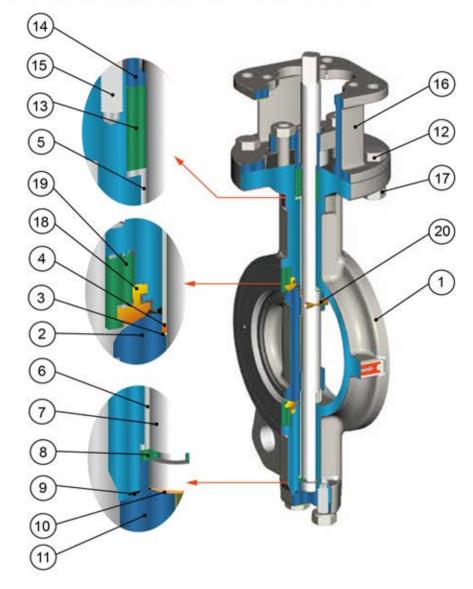
No. 17 materials A216 Gr. WCB is only available for F07/F05, F10/F07, F12/F10, F14/F12, F16/F14 and A536 65-45-12 for F16, F25, F30, F35, F40.

^{2.} Each materials can provide on different process of customer's requirements.

JIS 30K + 40K

ISO PN 40-PN 50

PARTS AND MATERIALS VF-94_SERIES



Construction Details

Integral stop Body (1) - To prevent disc from over travel.

Bushing(4~6) - Upper and Lower bearings are constructed of 316 SS.

Stem (7) - Design with ISO 5211.

Thrust Ring (8) - Anti blow out shaft and Anti static design.

Packing (13) - Multiply Row of Teflon Chevron.

Gland FLANGE / Packing Gland (14) - One Piece assembly applies even pressure to packing.

Yoke (16) - Investment Cast, per ISO 5211.

Teflon Seat (18) - Pressure assisted to give Bi - directional bubble tight shutoff at all pressures. (Valve must be installed with retaining ring upstream for dead end service.)

Retainer (19) - Patented design of twin threads, ensures an un-inrerupted sealing face. Standard is a 125 - 200 AARH finish and is compatible with both flat and spiral wound gaskets.

^{*} Fugitive Emissions Packing System is available on customer required.

ANSI CLASS 300LB JIS 30K - 40K

ISO PN 40-PN 50

PARTS AND MATERIALS VF-94_SERIES

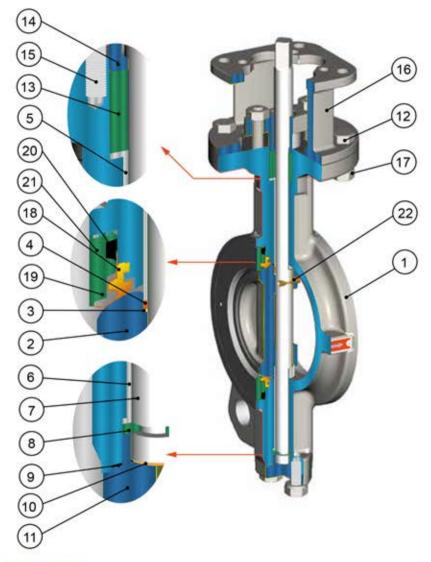
		VF-94_			
No.	Name	Material	Spe	ecification	Remark
			JIS	ASTM	
		CARBON STEEL	SC 480	A216 Gr. WCB	
1	BODY		SCS 13A	A351 Gr. CF8	
1	BODT	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	Disc odes continued with
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	Disc edge equipped with hard chrome plated
			SCS 16A	A351 Gr. CF3M	nard chrome plated
3	SEAL-1	PTFE			
4	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
5	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
6	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
			SUS 304	A182 Gr. F304	
7	STEM	STAINLESS STEEL	SUS 316	A182 Gr. F316	Stem Equipped With
10	SIEW	STAINLESS STEEL	630 SS	A564 Gr. 630	Hard Chrome Plated
			XM-19	A479 Gr. XM-19	
8	THRUST RING	STAINLESS STEEL	SUS 316	A240 Gr. 316	
9	SEAL-2	PTFE			
10	PACKING	PTFE+316SS			
			SCS 13A	A351 Gr. CF8	
11	BOTTOM	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
-11	COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC 480	A216 Gr. WCB	
12	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	
13	GLAND PACKING	PTFE PTFE+15%GRAPHITE			-29°C ∼ 160°C -29°C ∼ 210°C
			SCS 13A	A351 Gr. CF8	200 2100
14	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
15	STUD	STAINLESS STEEL	SUS 304	A193 Gr. B8	
		DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	*(1)
16	YOKE	CARBON STEEL	SC 480	A216 Gr. WCB	17.17
17	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
	TEFLON	PTFE+15%GLASS FIBER		(A. 177-174 (1751 (175)	-29℃ ~ 180℃
18	SEAT	PTFE+15%GRAPHITE			-29°C ~ 210°C
			SCS 13A	A351 Gr. CF8	
19	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
20	PIN	STAINLESS STEEL	SUS 316	A182 Gr. F316	

Remark:

- No.16 materials A216 Gr. WCB is only available for F07/F05, F10/F07, F12/F10, F14/F12, F16/F14 and A536 65-45-12 for F16, F25, F30, F35, F40.
- 2. Each materials can provide on different process of customer's requirements.

ISO PN 40-PN 50

PARTS AND MATERIALS VF-95_SERIES



Construction Details

Integral stop Body (1) - To prevent disc from over travel.

Bushing (4~6) - Upper and Lower bearings are constructed of PTFE impregnated 316 SS.

Stem (7) - Design with ISO 5211.

Thrust Ring (8) - Anti blow out shaft and Anti static design.

Gland FLANGE / Packing Gland (14) - One Piece assemblyapplies even pressure to packing.

Yoke (16) - Investment Cast, per ISO 5211.

Teflon Seat (18) - Pressure assisted to give Bi - directional bubble tight shutoff at all pressures. (Valve must be installed with retaining ring upstream for dead end service.)

Retainer (21) - Patented design of twin threads, ensures an un-inrerupted sealing face. Standard is a 125 - 200 AARH finish and is compatible with both flat and spiral wound gaskets.

* Fugitive Emissions Packing System is available on customer required.

ANSI CLASS 300LB JIS 30K - 40K

ISO PN 40-PN 50

PARTS AND MATERIALS VF-95_SERIES

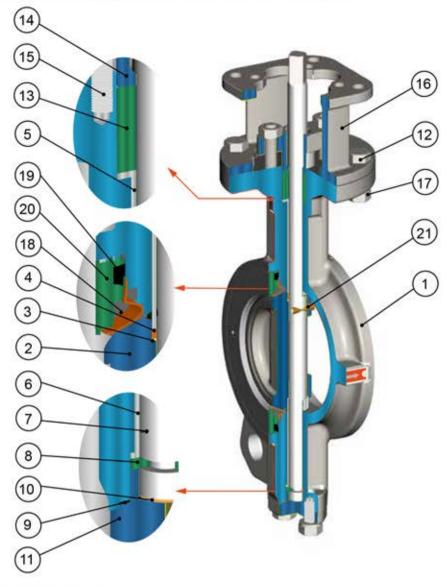
		VF-95_			
No.	Name	Material	Speci	fication	Remark
			JIS	ASTM	
		CARBON STEEL	SC480	A216 Gr. WCB	
1	BODY		SCS 13A	A351 Gr. CF8	
•	BODT	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	Disc edge equipped
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	with hard chrome
			SCS 16A	A351 Gr. CF3M	plated
3	SEAL-1	GRAPHITE			
4	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
5	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
6	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
			SUS 304	A182 Gr. F304	
7	STEM	STAINLESS STEEL	SUS 316	A182 Gr. F316	Stem Equipped With
1	STEW	STAINLESS STEEL	630SS	A564 Gr. 630	Hard Chrome Plated
			XM-19	A479 Gr. XM-19	
8	THRUST RING	STAINLESS STEEL	SUS 316	A240 Gr. 316	
9	SEAL-2	GRAPHITE			
10	PACKING	PTFE+316SS			
			SCS 13A	A351 Gr. CF8	
11	BOTTOM	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
"	COVER		SCS 16A	A351 Gr. CF3M	
		CARBON STEEL	SC480	A216 Gr. WCB	
12	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	
13	GLAND PACKING	GRAPHITE			
14	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
14	GLAND	STAINLESS STEEL	SCS 16A	A351 Gr. CF3M	
15	STUD	STAINLESS STEEL	SUS 304	A193 Gr. B8	
40	VOVE	DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	*(1)
16	YOKE	CARBON STEEL	SC480	A216 Gr. WCB	
17	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
18	TEFLON SEAT	PTFE+15%GLASS FIBER PTFE+15%GRAPHITE			-29°C ~ 180°C -29°C ~ 210°C
19	METAL SEAT	INCONEL	INCONEL ALLOY	B637 FORGING STOCK	1000 to 1000 000 000 000 000 000 000 000 000 0
20	GASKET	GRAPHITE			
		terreary that the	SCS 13A	A351 Gr. CF8	
21	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
-2.5		5 11 11 1 EEE	SCS 16A	A351 Gr. CF3M	
22	PIN	STAINLESS STEEL	SUS 316		
22	F (IV)	STAINLESS STEEL	303310	A182 Gr. F316	

Remark:

- No.16 materials A216 Gr. WCB is only available for F07/F05,F10/F07,F12/F10,F14/F12,F16/F14 and A 536 65-45-12 for F16, F25,F30, F35, F40.
- 2. Each materials can provide on different process of customer's requirements.

ISO PN 40-PN 50

PARTS AND MATERIALS VF-96_SERIES



Construction Details

Integral stop Body (1) - To prevent disc from over travel.

Bushing (4-6) - Upper and Lower bearings are constructed of PTFE impregnated 316 SS.

Stem (7) - Design with ISO 5211.

Thrust Ring (8) - Anti blow out shaft and Anti static design.

Packing (13) - Multiply Row of Teflon Chevron.

Gland FLANGE / Packing Gland (14) - One Piece assemblyapplies even pressure to packing.

Yoke (16) - Investment Cast, per ISO 5211.

Matel Seat (18) - Pressure assisted to give Bi - directional bubble tight shutoff at all pressures.

(Valve must be installed with retaining ring upstream for dead end service.)

Retainer (20) - Patented design of twin threads, ensures an un-inverupted sealing face. Standard is a

125 - 200 AARH finish and is compatible with both flat and spiral wound gaskets.

^{*} Fugitive Emissions Packing System is available on customer required.

ANSI CLASS 300LB JIS 30K - 40K ISO PN 40-PN 50

PARTS AND MATERIALS VF-96_SERIES

	***************************************	make a coorde-in	96,000	TO SHARP TO SHARP TO SHAPE	0.000.000.000
No.	Name	Material	JIS	ecification ASTM	Remark
		CARBON STEEL	SC 480	A216 Gr. WCB	
		CARBON STEEL	SCS 13A	A351 Gr. CF8	
1	BODY	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
		STAINLESS STEEL	SCS 16A	A351 Gr. CF3M	
			SCS 13A	A351 Gr. CF8	
2	DISC	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	Disc edge equipped with
_	5.00	011111111111111111111111111111111111111	SCS 16A	A351 Gr. CF3M	hard chrome plated
3	SEAL-1	GRAPHITE		31-010-00-10-10-10-10-10-10-10-10-10-10-1	
Ĭ	OLITIC 1	0.00.000			
4	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
5	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
6	BUSHING	STAINLESS STEEL	SUS 316	A182 Gr. F316	
			SUS 304	A182 Gr. F304	
7	STEM	STAINLESS STEEL	SUS 316	A182 Gr. F316	Stem Equipped With Har
Ů.	OTEM	OTAINEEGG OTEEE	630 SS	A564 Gr. 630	Chrome Plated
			XM-19	A479 Gr. XM-19	
8	THRUST	STAINLESS STEEL	SUS 316	A240 Gr. 316	
9	SEAL-2	GRAPHITE			
10	PACKING	PTFE+316SS			
			SCS 13A	A351 Gr. CF8	
11	воттом	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
5550	COVER		SCS 16A	A351 Gr. CF3M	
	2222	CARBON STEEL	SC 480	A216 Gr. WCB	
12	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	
13	GLAND PACKING	GRAPHITE			
e arran	OL TUB	OTABLE CON OTES	SCS 13A	A351 Gr. CF8	
14	GLAND	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
15	STUD	STAINLESS STEEL	SUS 304	A193 Gr. B8	
16	YOKE	DUCTILE IRON	FCD 450	A536 Gr. 65-45-12	*(1)
9.710		CARBON STEEL	SC 480	A216 Gr. WCB	
17	NUT	STAINLESS STEEL	SUS 304	A194 Gr. 8	
18	METAL SEAT	INCONEL	INCONEL ALLOY	B637 FORGING STOCK	
19	GASKET	GRAPHITE			
			SCS 13A	A351 Gr. CF8	
20	RETAINER	STAINLESS STEEL	SCS 14A	A351 Gr. CF8M	
			SCS 16A	A351 Gr. CF3M	
21	PIN	STAINLESS STEEL	SUS 316	A182 Gr. F316	

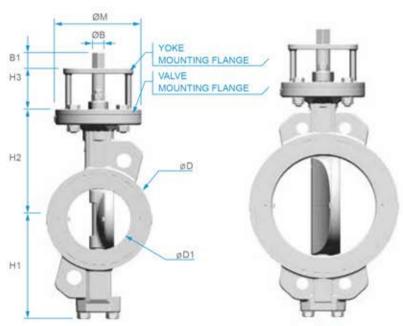
Remark:

- No.16 materials A216 Gr. WCB is only available for F07/F05, F10/F07, F12/F10, F14/F12, F16/F14 and A536 65-45-12 for F16, F25, F30, F35, F40.
- 2. Each materials can provide on different process of customer's requirements.

WAFER TYPE DIMENSION







Note: 6" down

Note: 8" and up

Unit: mm

Pipe limit size > C

VF-91_/VF-92_/VF-93_Series

S	ze	to Face			Di	mensi	ion					inting Fl ISO 521			\$	Shaft En	d	Suitable Pipe Flange	Weight
										VAL	VE		YOKE						
mm	inch	L	H1	H2	H3	φD	φD1	C	C1	TYPE	φΜ	TY	PE	M1	φВ	□В	B1	*	kg
50	2	43	99	118	60	92	37	49.5	2	F07	90	F07	F05	70	14	11	18	ABCDEFGK	3.9
65	2.5	46	110	125	60	108	63	62.3	15	F07	90	F07	F05	70	14	11	18	ABCDEFGHK	4.5
80	3	47	128	140	70	126	78	65.9	22	F10	125	F10	F07	102	18	14	23	ABCDEFGHK	7
100	4	53	150	157	70	153	95	93	25	F10	125	F10	F07	102	18	14	23	ABCDEFGHK	9
125	5	57	163	170	70	184	118	120	36	F10	125	F10	F07	102	22	17	23	ABCDEFGHK	12
150	6	56	176	185	70	212	143	149	50	F10	125	F10	F07	102	22	17	23	ABCDEFGHK	13.5
200	8	62	206	220	80	268	187.6	196	70	F12	150	F12	F10	125	25	19	28	ABCDEFGHK	22
250	10	68	238	260	80	326	235.5	243	90	F12	150	F12	F10	125	28	22	28	ABCDEFGHK	32
300	12	78	269	290	100	375	282	289	106	F14	175	F14	F12	160	35	27	28	ABCDEFGHK	48
350	14	78/92	306	326	100	416	322	329	125	F14	175	F14	F12	160	36	27	37	ABCDEFGHK	66
400	16	102	342	370	120	476	371	377	140	F16	210	F16	F14	195	48	36	47	ABCDEFGHK	107
450	18	114	370	395	120	534	418	423	157	F16	210	F16	F14	195	48	36	47	ABCDEFGHK	130
500	20	127	399	430	120	588	466	471	177	F16	210	F16	F14	195	60	46	56	ABCDEFGHK	163
600	24	154	455	490	150	692	570	572	210	F25	300	F16	1100	300	60	46	56	ABCDEFGK	278
600	24	154	455	490	150	692	570	572	210	F25	300	F25		300	60	46	56	ABCDEFGK	278
										1	11/4/4/4/11								

A : ASME 150LB B : ISO PN10 C : ISOPN16 D : ISO PN20 E : ISO PN25 F : JIS 10K G : JIS 16K H : 20K

K:B.S.10 TABLE E

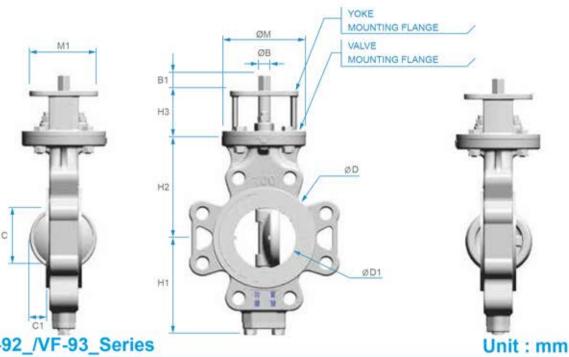
^{*}Other dimensions please consult with Value Valves,



ISO PN 10-PN 25

LUG TYPE DIMENSION

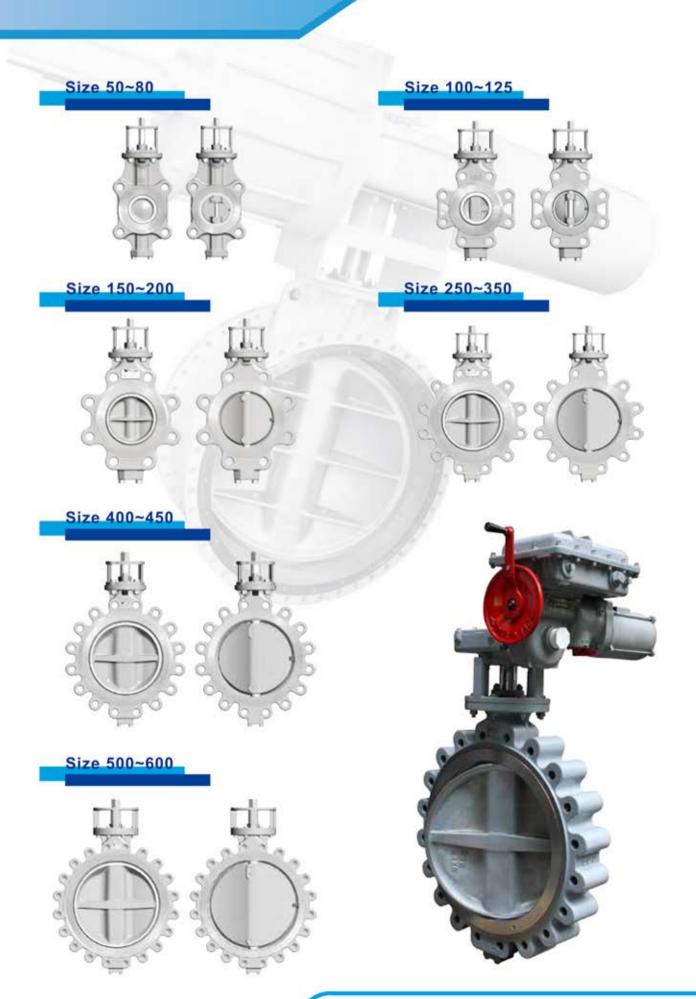




VF-91 /VF-92 /VF-93 Series

Face Mounting Flange Suitable Size Dimension Shaft end Weight to (ISO 5211) Pipe Flange Face VALVE YOKE H2 φD H1 **H3** ΦD1 C C1 TYPE σM TYPE M1 φΒ □B B₁ * mm inch kg 49.5 F07 F07 F05 ABCDEFK 4.9 2.5 62.3 F07 F07 F05 **ABCDEFGHK** 5.5 65.9 F10 F10 F07 **ABCDEFGHK** 8.5 F10 F10 F07 **ABCDEFGHK** F10 F10 F07 **ABCDEFGHK** F10 F10 **ABCDEFGHK** 19.5 F07 F12 F12 F10 **ABCDEFGHK** F12 F12 F10 **ABCDEFGHK** F14 F14 F12 **ABCDEFGHK** 78/92 F14 F14 F12 **ABCDEFGHK** F16 F16 F14 ABCDEFGHK F16 F14 **ABCDEFGHK** F16 F16 F14 **ABCDEFGHK** F25 F16 ABCDE F25 F25 ABCDE A: ASME 150LB B: ISO PN10 C: ISO PN16 D: ISO PN20 E: ISO PN25 F; JIS 10K G; JIS 16K H: 20K K:B.S.10 Pipe limit size > C TABLE E

^{*}Other dimensions please consult with Value Valves.

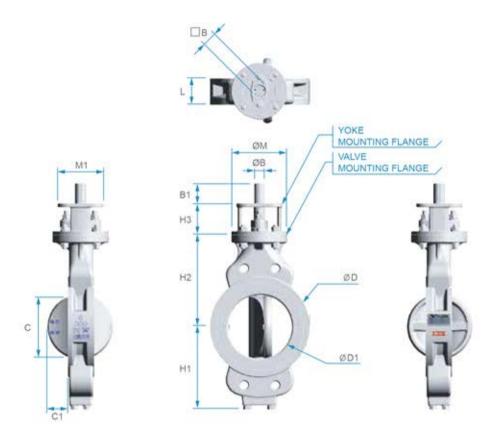


ANSI CLASS 300LB

JIS 30K - 40K

ISO PN 40~PN 50

WAFER TYPE DIMENSION



VF-94_/VF-95_/VF-96_Series

				0.00	
	n		277	m	
u		ıı	m		

Si	ze	Face to Face			Din	nensior	ıs					nting FI SO 521				Sh	aft End		Suitable Pipe Flange	Weight
										VAI	VE		YOKE							
mm	Inch	L	H1	H2	H3	φD	φD1	C	C1	Type	φМ	Ty	pe	M1	φΒ	□B	B1	KEY	*	kg
65	2.5	46	110	125	60	108	63	62.3	15	F07	90	F07	F05	70	14	11	18	200	LMN	5
80	3	47	128	140	70	126	78	65.9	22	F10	125	F10	F07	102	18	14	23	1000	LMNO	7
100	4	53	150	157	70	153	95	93	25	F10	125	F10	F07	102	18	14	23	(1.4)	LMNO	9
125	5	57	163	170	70	184	118	120	36	F10	125	F10	F07	102	22	17	23		LMN	12
150	6	59	185	205	70	222	145	142	45	F10	125	F10	F07	102	25		45	8.8	LMNO	24
200	8	73	230	260	80	268	185	187	60	F12	150	F12	F10	125	32	7.	55	8*8	LMNO	37
250	10	83	266	295	100	326	233	234	79	F14	175	F14	F12	160	38	- 12	60	10*8	LMN	54
300	12	92	300	325	100	381	280	279	97	F14	175	F14	F12	160	45	12	65	12*8	LMNOP	76
350	14	117	330	365	120	416	318	312	105	F16	210	F16	F14	195	50	154	80	16*10	LMN	109
400	16	133	368	400	120	482	370	359	122	F16	210	F16	F14	195	60		80	18*12	LMNOP	134
450	18	149	385	440	150	550	413	403	137	F16	210	F16	F14	195	65	104	90	18*12	LMN	213
500	20	159	427	470	150	592	466	446	157	F25	300	F25		300	75	1.5	110	20*12	LMN	276
600	24	181	516	563	150	725	566	522	196	F30	350	F30		350	80		120	24*16	LMN	451
*	L:A	SME 300	LB M	ISO PN	40 N:	ISO PN	50 O	JIS 30F	(P:J	IIS 40K									Pipe lin	nit size >

^{*}VF-95_ and VF-96_ Series, 14" and up please contact to Value Valves.

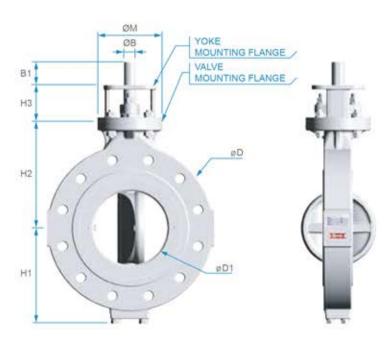


ISO PN 40-PN 50

LUG TYPE DIMENSION







VF-94_/VF-95_/VF-96_Series

Unit: mm

Si	ze	Face to Face			Di	imensio	ns					nting FI ISO 521				Sha	ft End		Suitable Pipe Flange	Weight
										VAL	VE	YO	KE							
mm	Inch	L	H1	H2	H3	φD	φD1	C	C1	Type	φМ	Туре		M1	φΒ	□B	B1	KEY	*	kg
65	2.5	46	110	125	60	108	63	62.3	15	F07	90	F07	F05	70	14	11	18		LMN	7
80	3	47	128	140	70	126	78	65.9	22	F10	125	F10	F07	102	18	14	23	1725	LMN	11
100	4	53	150	157	70	153	95	93	25	F10	125	F10	F07	102	18	14	23	120	LMN	14
125	5	57	163	170	70	184	118	120	36	F10	125	F10	F07	102	22	17	23	1.4	LMN	18
150	6	59	185	205	70	320	145	142	45	F10	125	F10	F07	102	25	1.65	45	8*8	LMN	35
200	8	73	230	260	80	381	185	187	60	F12	150	F12	F10	125	32	100	55	8*8	LMNO	57
250	10	83	266	295	100	445	233	234	79	F14	175	F14	F12	160	38	(*)	60	10*8	LMN	90
300	12	92	300	325	100	521	280	279	97	F14	175	F14	F12	160	45		65	12*8	LMNOP	139
350	14	117	330	365	120	585	318	312	105	F16	210	F16	F14	195	50		80	16*10	LMN	205
400	16	133	368	400	120	648	370	359	122	F16	210	F16	F14	195	60	10	80	18*12	LMN	209
450	18	149	385	440	150	712	413	403	137	F16	210	F16	F14	195	65		90	18*12	LMN	370
500	20	159	427	470	150	775	466	446	157	F25	300	F25	T Q	300	75	1.3	110	20*12	LMN	496
600	24	181	516	563	150	915	566	522	196	F30	350	F30	24	350	80	143	120	24*16	LMN	643
*	L:ASI	ME 300L	B M:	ISO PN	40 N:I	SO PN	50 O:	JIS 30K	P:JI	S 40K									Pipe lim	it size >

^{*}VF-95_ and VF-96_ Series, 14" and up please contact to Value Valves.

Size 65~125



Size 150~200



Size 350~400





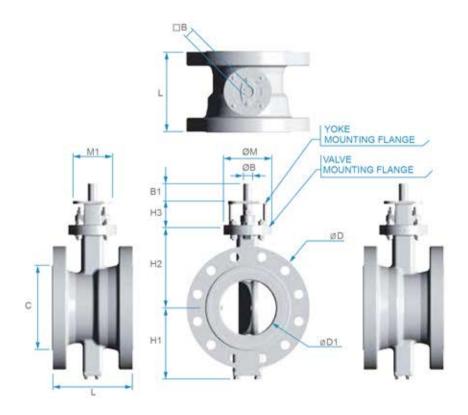
Size 250~300



Size 450~600



FLANGE TYPE DIMENSION



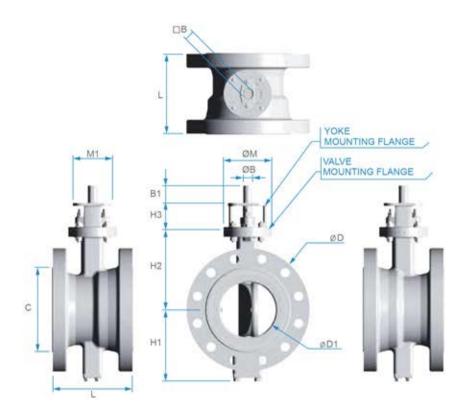
VF-916/VF-917 Series

Unit: mm

S	ize	Fac to Fac				Dimension	s				iting Fla SO 521				Shaft Er	nd	Suitable Pipe Flange	We	eight
		L							VAL	.VE		YOKE						3	kg
mm	inch	916	917	H1	H2	H3	φD	φD1	Type	φМ	TY	PE	M1	φВ	□В	B1	*	916	917
80	3	114	180	121	140	70	204	78	F10	125	F10	F07	102	14	- 11	18	ABCE	10.4	14.8
100	4	127	190	150	157	70	230	104	F10	125	F10	F07	102	18	14	23	ABCDFGHK	16.3	22.5
125	5	140	200	163	170	70	255	125	F10	125	F10	F07	102	22	17	23	ABCDFK	21.1	27.7
150	6	140	210	176	185	70	280	150	F10	125	F10	F07	102	22	17	23	ABCDEF	27.3	33.8
200	8	152	230	206	220	80	350	200	F12	150	F12	F10	125	25	19	28	ABCDFGHK	43.1	55.5
250	10	165	250	238	260	80	406	255	F12	150	F12	F10	125	28	22	28	ABCDFK	67.7	71.6
300	12	178	270	269	290	100	485	300	F14	DF	F14	F12	160	35	27	28	ABCDEFGHK	105.6	117.4
350	14	190	290	306	326	100	535	340	F14	175	F14	F12	160	36	27	37	ABCDFK	135.9	147.
400	16	216	310	342	370	120	599	390	F16	210	F16	F14	195	48	36	47	ABCDFK	191.7	213.2
450	18	222	330	370	395	120	635	440	F16	210	F16	F14	195	48	36	47	ABCDF	224.1	237.6
500	20	229	350	399	430	120	700	480	F16	210	F16	F14	195	60	46	56	ABCDF	265.8	292.2
600	24	267	390	455	490	150	815	590	F25	300	F25	G-	300	60	46	56	ABCDF	421.8	454.2
*	A:ASM	E 150LB	В	ISO PN10	C:	ISOPN16	D:I	SO PN20	E:IS	O PN25	F: JI	S 10K	G: JIS	16K	H :20K	K:B.S.	10 TABLE E	Pipe limit	size >

*Other dimensions please consult with Value Valves.

FLANGE TYPE DIMENSION



VF-947 Series Unit : mm

Weigh	Suitable Pipe Flange		aft End	Sha				nting Fla SO 5211				ns	mension	Dir		Face to Face	ze	Si
							YOKE		VE	VAL								
kg	*	B1	KEY	□В	φΒ	M1	PE	TY	φΜ	Type	φD1	φD	H3	H2	H1	L	inch	mm
19	LM	18	(*)	11	14	102	F07	F10	125	F10	78	214	70	140	121	180	3	80
32	LMO	23		14	18	102	F07	F10	125	F10	104	254	70	157	149.5	190	4	100
40	LMO	23	5000	17	22	102	F07	F10	125	F10	125	280	70	170	163	200	5	125
56	L	45	8*8		25	102	F07	F10	125	F10	150	318	70	205	185	210	6	150
90	LMO	55	8*8	- 4	30	125	F10	F12	150	F12	200	385	80	260	230	230	8	200
136	LO	60	10*8	2	35	160	F12	F14	175	F14	255	445	100	295	266	250	10	250
184	LMO	65	12*8	23	38	160	F12	F14	175	F14	300	521	100	325	300	270	12	300
254	LMO	80	16*10	- 8	48	195	F14	F16	210	F16	340	585	120	365	330	290	14	350
317	L	80	18*12	-	60	195	F14	F16	210	F16	390	648	120	400	368	310	16	400
444	LMO	90	18*12	*	70	195	F14	F16	210	F16	438	712	150	440	385	330	18	450
558	LMO	110	20*12	*:	80	300	12	F25	300	F25	485	775	150	470	427	350	20	500
822	LMO	120	24*16	17.1	90	350	+1	F30	350	F30	590	915	150	563	516	390	24	600

^{*}Other dimensions please consult with Value Valves.

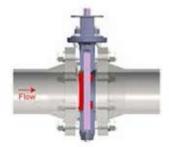
ISO PN 10~PN 25

BOLTING & GASKET FOR INSTALLATION

VF-91_/VF-92_/VF-93_ Series

Unit: mm

SI	ZE			PN	10					PN	16					PN:	20					PN:	25		
mm	inch	BOLT	Α	В	С	D	т	BOLT SIZE	Α	В	С	D	т	BOLT	Α	В	С	D	Т	BOLT	Α	В	С	D	Т
50	2	M16	135	120	65	45	20	M16	130	120	65	45	20	M16	130	125	70	50	23	M16	130	125	70	50	22
65	2.5	M16	135	120	70	45	20	M16	135	120	70	45	20	M16	140	125	70	50	23	M16	140	125	70	50	22
80	3	M16	135	120	70	45	20	M16	135	120	70	45	20	M16	145	130	75	50	24	M16	145	130	75	50	24
100	4	M16	145	130	75	50	22	M16	145	130	75	50	22	M16	150	135	75	55	24	M20	160	140	80	55	24
125	5	M16	150	135	75	50	22	M16	150	135	75	50	22	M20	165	140	80	55	24	M24	180	155	90	60	26
150	6	M20	165	140	80	55	24	M20	165	140	80	55	24	M20	165	145	85	55	26	M24	180	155	90	60	28
200	8	M20	165	145	85	55	24	M20	165	145	85	55	24	M20	175	155	90	60	29	M24	190	165	95	65	30
250	10	M20	180	160	90	60	26	M24	190	165	95	60	26	M24	200	175	100	70	31	M27	210	180	105	70	32
300	12	M20	190	170	95	65	26	M24	205	180	100	70	28	M24	210	185	105	70	32	M27	220	195	110	75	34
350	14	M20	190	170	95	65	26	M24	210	185	105	70	30	M27	225	195	110	75	35	M30	235	205	120	80	38
400	16	M24	225	200	110	70	26	M27	240	215	120	80	32	M27	250	225	125	85	37	M33	270	240	135	95	40
450	18	M24	240	215	120	75	28	M27	270	240	135	90	40	M30	275	240	135	95	40	M33	300	265	150	105	48
500	20	M24	255	230	125	75	28	M30	300	270	150	100	44	M30	295	265	150	95	43	M33	310	280	155	105	48
600	24	M27	300	270	150	85	34	M33	355	320	175	110	54	M33	340	310	170	105	48	M36	370	330	185	120	58



The seals flow can be executed in both directions.

The following advantages can be assured while the suggested flow directions is used.

- Minimal start-up torque.
- Reduced seat wear.
- No direct contact between the fluid and the seat.

VF-91_/VF-92_/VF-93_ Series

Unit: mm

SI	ZE	1	SME	B16	.5 15	OLB				JIS 1	IOK				JIS	16K	& 20	K			B.S. 1	O TA	BLE I	E	
mm	inch	BOLT SIZE	Α	В	С	D	т	BOLT SIZE	Α	В	С	D	т	SIZE	Α	В	С	D	т	BOLT	Α	В	С	D	Т
50	2	5/8"	135	125	65	50	20	M16	130	115	65	45	16	M16	130	115	65	45	16	5/8"	120	110	60	40	10
65	2.5	5/8"	140	125	70	50	22	M16	130	115	65	45	18	M16	145	115	65	45	18	5/8"	120	110	60	40	14
80	3	5/8"	145	130	70	50	24	M16	135	115	65	45	18	M20	155	125	70	50	20	5/8"	120	110	60	40	14
100	4	5/8"	150	135	75	55	24	M16	140	120	70	50	18	M20	165	135	75	55	22	5/8"	135	120	65	45	17
125	5	3/4"	165	145	80	55	24	M20	155	135	80	55	20	M22	165	140	80	55	22	5/8"	140	125	70	50	1
150	6	3/4"	165	145	85	55	25	M20	160	140	80	55	22	M22	175	145	80	55	24	3/4"	145	130	70	50	17
200	8	3/4"	175	155	90	60	28	M20	165	140	80	55	22	M22	195	150	85	60	26	3/4"	152	135	75	50	15
250	10	7/8"	190	170	95	65	30	M22	180	155	90	60	24	M24	210	170	95	65	28	3/4"	165	150	85	55	22
300	12	7/8*	205	180	100	70	32	M22	190	165	95	60	24	M24	230	185	100	70	30	7/8"	185	170	95	65	25
350	14	1"	220	195	110	75	35	M22	195	170	95	65	26	M30	260	200	110	80	34	7/8"	195	175	95	70	29
400	16	1"	245	220	125	80	37	M24	230	205	115	70	28	M30	275	230	130	85	38	7/8"	225	205	110	75	32
450	18	1-1/8*	270	240	135	90	40	M24	245	220	120	75	30	M30	295	245	135	90	40	7/8"	240	225	120	80	35
500	20	1-1/8*	290	260	145	90	43	M24	255	230	130	75	30	M30	345	265	145	95	42	7/8"	260	245	130	80	38
600	24	1-1/4"	340	305	170	100	48	M30	300	270	150	85	32	M36	0	310	170	105	46	1-1/8"	325	300	165	100	48

^{*}Other dimensions please consult with Value Valves.

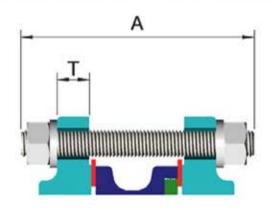
ANSI CLASS 300LB

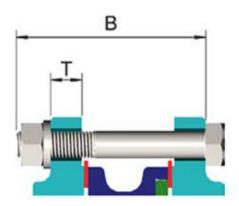
119 20V - 40V

ISO PN 40-PN 50

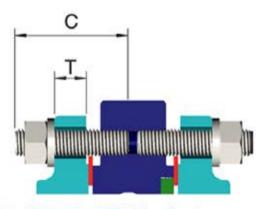
BOLTING & GASKET FOR INSTALLATION

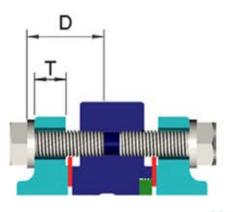
Wafer Type





Lug Type





VF-94_/VF-95_/VF-96_ Series

Unit: mm

SI	ZE		AS	ME B1	6.5 300	LB				PN	140					PN	150		
mm	inch	BOLT	A	В	С	D	т	BOLT	Α	В	С	D	т	BOLT	Α	В	С	D	Т
65	2.5	3/4"	160	135	80	55	23	M16	140	120	65	45	22	M20	155	130	80	55	26
80	3	3/4"	165	140	85	60	30	M16	145	125	70	50	24	M20	165	140	80	55	29
100	4	3/4"	180	155	85	60	34	M20	160	135	75	50	24	M20	175	150	85	60	32
125	5	3/4"	190	165	90	65	37	M24	180	150	90	60	26	M20	185	160	90	65	35
150	6	3/4"	195	170	90	65	39	M24	185	155	90	60	28	M20	190	165	90	65	37
200	8	7/8"	220	195	100	75	43	M27	215	185	105	75	34	M24	225	195	105	75	42
250	10	1"	260	230	120	90	50	M30	240	210	115	80	38	M27	255	225	120	90	48
300	12	1-1/8"	280	245	130	95	53	M30	255	220	115	80	42	M30	275	540	125	90	51
350	14	1-1/8"	310	275	130	95	56	M33	295	260	125	90	46	M30	305	270	130	95	54
400	16	1-1/4"	335	300	140	105	59	M36	325	285	140	100	50	M33	330	295	140	105	58
450	18	1-1/4"	360	325	145	110	63	M36	355	315	145	105	57	M33	355	320	140	105	61
500	20	1-1/4"	375	340	145	110	66	M39	370	330	150	110	57	M33	370	335	145	110	64
600	24	1-1/2"	420	380	165	125	75	M45	430	385	175	130	72	M39	415	375	165	125	70

^{*}Other dimensions please consult with Value Valves.



SPECIAL OFFER

The heating jacket and flashing nozzles designed as below pictures showed, which designed to apply the temperature changes and prevent fluid crystallization.

Value Valves VF-9 series, high performance double eccentric butterfly valve can be provided on customer's requirements. More detail please consult with us at

sales@valuevalves.com.tw

APPLICABLE STANDARDS

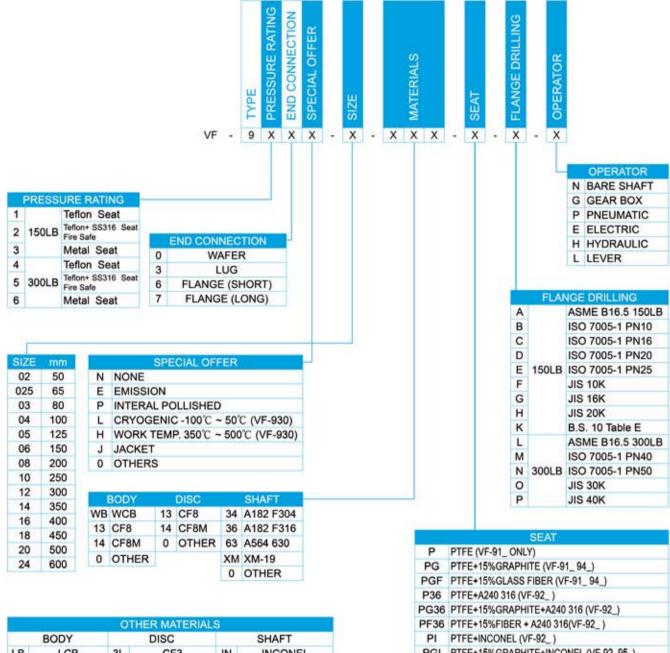
- Body Style: Wafer type, Lug type, Flange type
- Body Shell Thickness: ASME B16.34
- Mounting: ISO 5211
- Design & Pressure: ASME B16.34, 16.5
- Face to Face : API 609, ISO 5752
- Inspection and Testing:
 ISO 5208, API 598, MSS SP-61, MSS SP-68
- Fire Safe: API 607
- VOC: ANSI/ISA-SP-93, TA-Luft, ISO 15848-1
- Standard Marketing System: MSS-SP-25
- EX Certificate: ATEX 94/9/CE Group II Category 2 GD
- Leakage Class: ANSI FCI 70-2-2006 Table 1 CLASS V, ISO 5208 Rate A, ANSI/ISA-SP-93
- Safety Integrity Level 3 (SIL 3): IEC 61508-1
- Flange Connection:

ASME B16.5 Class 150/300, ASME B16.47 Class 150/300 (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.



GENERAL ORDING INFORMATION



	BODY		DISC		SHAFT
LB	LCB	3L	CF3	IN	INCONEL
42	WC6	6L	CF3M	MO	MONEL
3L	CF3	8M	CG8M	HA	HASTALLOY C
6L	CF3M	7L	CG3M	20	ALLOY 20
M8	CG8M	IN	INCONEL	TI	Ti
7L	CG3M	MO	MONEL	TT	316Ti
IN	INCONEL	HA	HASTELLOY		
MO	MONEL	20	ALLOY20		
HA	HASTELLOY	TI	Ti		
20	ALLOY20	TT	316Ti		
TI	Ti	5A	SS CE3MN		
TT	316Ti				
5A	SS CE3MN				

PGI PTFE+15%GRAPHITE+INCONEL (VF-92_95_) PFI PTFE+15%FIBER+INCONEL (VF-92_95_) INCONEL (VF-93_96_)

Note: Example VF-910E-08-WB13XM-P-F-N Shall be a:

High Performance Butterfly Valve(9) ANSI 150LB Teflon Seat(1)' Wafer Type(0)' Emission(E) DN200(08) WCB Body(WB)' CF8 Disc(13)' Shaft in XM-19(XM)' Body seat in PTFE(P)' Flange Drilling in JIS10K(F) Bare Shaft(N) * For any other special offers, please contact