BVC
Value in Valving

Value Valves

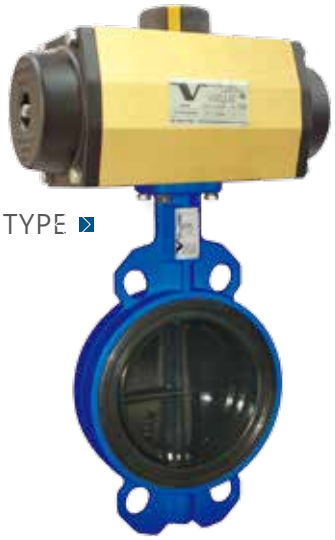
VF-7 SERIES
Centric Butterfly Valves

VALUE VALVES

VALUE VALVES
VF-7 SERIES
Centric Butterfly Valves

PRODUCT CHARACTERISTICS

- Boot Seat Design with Cartridge Seat Features and Benefits Allowing Easy Disassembly and Seat Change
- Wafer Body , Full Lug Body, Double Flanged Body In Cast Iron, Ductile Iron, Cast Steel, 304 and 316SS
- Working Pressures to 250 psig
- Undercut Disc for Low Torque, Low Pressure Applications
- Full Dead End Service
- Full Shaft Bearings, Top, Bottom, and Above the Seat for Disc Stability and Higher Working Pressures
- Investment Cast Low Profile Disc for Low Pressure Drops
- Vacuum Service to 760 torr (29.9" Hg) Without Seat Vulcanizing
- Spline Attachment Shaft to Disc Without Pins in Flow Stream
- Full Material /Pressure Certs on Request
- ISO-5211 Compliant to Fit All ISO-5211 Actuators (short, square shaft)
- Available in Double D Design Shaft
- Available from Butterfly Valves and Controls as Private Label



WAFER TYPE

APPLICATIONS

HVAC
Ship Building
Petrochemical
Fire Control
Seawater
Flue Gas
Desulphurization

WAFER TYPE

PRODUCT CHARACTERISTICS

Model No.	VF-730	VF-733	VF-737
End Connection	Wafer	Lug	Double Flanged
Flange Drilling	ANSI 125/150	ANSI 125/150	ANSI 150
	JIS 10K, PN10, PN16	JIS 10K, PN10, PN16	JIS 10K, PN10, PN16
Size	1 1/2"-40"	1 1/2"-24"	14"-72"
Seat	Resilient		
Temperature Range	-4 °F ~400 °F (-20℃ ~204℃)		

Remark:
1. Wafer valve comes with positioning holes for ease of installation
2. Dimensions of Stainless steel valves are different from Iron Valves, see Page 13 for details

- PRESSURE RATINGS: Bi-Directional Bubble Tight Shutoff
  230 psig ----1 1/2" -12" (Opt to 24")
  150 psig ---- 14" -72"
- SEAT TEST PRESSURE: (PER ISO 5208)
  260 psig ----1 1/2" -12" (Opt to 24")
  160 psig ---- 14" -72"
- SHELL TEST PRESSURE: (PER ISO 5208)
  260 psig ----1 1/2" -12" (Opt to 24")
  160 psig ---- 14" -72"
- Optional Material/ Pressure on request

FLANGE TYPE

LUG TYPE

ANTI-CONDENSED

Features

VALUE VALVES

DESIGN DETAILS

DISC INDICATION

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

"Q" TYPE DESIGN

No special tools required with "Q" slot design to the shaft, Q type design available for sizes thru 12"(300mm).
Thru pin/plate(shown) on larger sizes

BUSHING

With Self-Lubricating Bushings Top and Bottom, Life Cycles up to 50,000 Cycles.

PIN-LESS

Pin-Less Disc to Shaft Design

SEAT

VF-7 Features Resilient Seat in Many Materials

SHAFT STRENGTH UPGRADED

Shaft Strength is Increased with Spline Drive, with No pins in Flow Stream

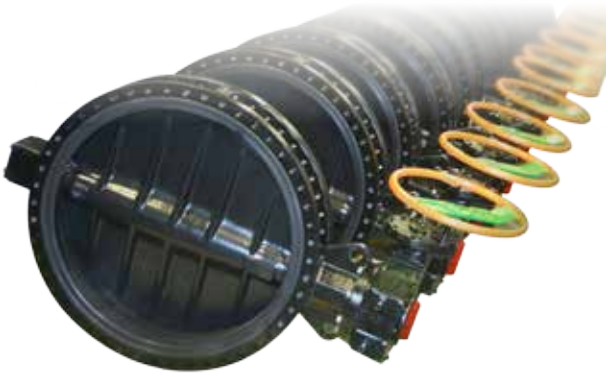
DESIGN STANDARDS

End Connection: Wafer, Lugged, Flanged
Wall Thickness: AWWA C504, ASME B 16.34
Mounting Flange: ISO 5211
Design: ISO 5208, AWWA C504 , ASME B16.34,
Face to Face: API 609, ISO 5752, AWWA C504(54"~72")
Pressure Test: ISO 5208, AWWA C504(54"~72")
Marketing System: MSS-SP-25
EX Certificate: ATEX 94/9/EG Group II Category 2 GD
ABS Certificate: ABS Steel Vessel Rules 1-1-7/7,4-6-2/5.11

(Other Flange Connections, contact Butterfly Valves & Controls)
Data subject to Change or Correction

CERTIFICATE

- American Bureau of Ships
  - Design Assessment
  - Manufacturing Assessment
  - Ship Side
- SGS Food Grade(FDA)- EPDM, EPT
- CRN- All Provinces
- GOST Certificate
- ATEX- EX Certificate



VF-730/733/737

CV FLOW COFFICIENT

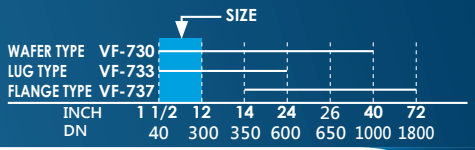
Size	CV's Disc Angle (Degree Open)								
Inches	10º	20º	30º	40º	50º	60º	70º	80º	90º
1 1/2"	1	3	8	16	25	42	69	94	132
2	1	4	11	25	44	70	117	154	225
2 1/2"	2	9	21	41	71	111	218	280	368
3	3	12	30	56	97	147	250	395	497
4	4	17	45	84	139	258	422	709	845
5	8	28	72	138	253	461	700	1214	1454
6	12	48	111	204	381	634	1021	1474	2175
8	22	75	193	358	670	1164	1833	2702	3655
10	33	118	286	627	978	1710	2636	3809	5565
12	40	151	365	719	1330	2486	3800	5939	8257
14	55	191	456	930	1757	3010	4656	6726	9733
16	73	270	594	1260	2308	3955	6300	9475	13405
18	88	300	726	1413	2708	4592	7407	11084	15926
20	121	405	1005	1979	3610	6257	9960	15337	21935
22	146	489	1215	2395	4368	7571	12051	18557	26541
24	163	578	1349	2795	5225	8846	13975	21163	29503
26	191	677	1583	3280	6132	10381	16401	24836	34626
28	224	771	1958	3772	7008	12471	20407	29477	43080
30	238	819	2079	4001	7434	13229	21648	31270	45702
32	301	1138	2693	5303	9635	16523	26934	36987	53814
36	385	1466	3451	6858	12647	21275	34814	50184	71421
38	538	2024	4703	8400	14238	23166	38013	57704	72715
40	597	2245	5213	9308	15788	25668	42120	63939	80582
42	658	2475	5748	10262	17406	28300	46437	70493	88842
44	722	2716	3308	11263	19103	21058	50962	77366	97505
48	859	3232	7507	13404	22734	36962	60652	92073	116039

TORQUE CHART

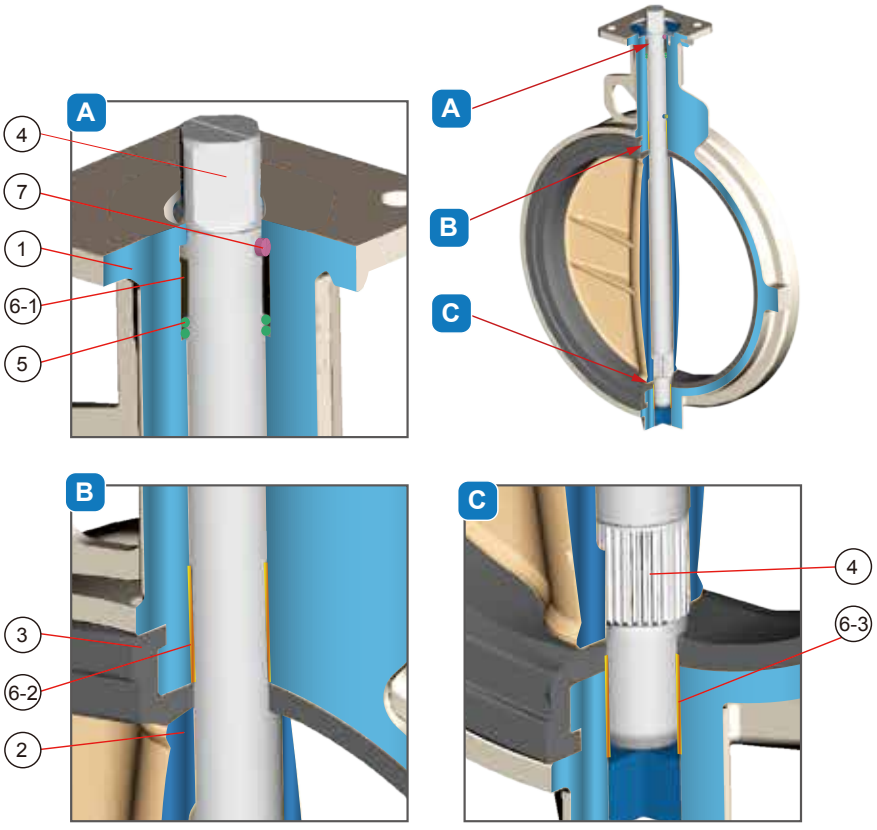
Including 30% Safety Factor

Size inches	INCLUDING 30% SAFETY FACTOR LUBRICATING (NON-CORROSIVE)				DRY(NON-LUBRICATING)			UNDERCUT DISC LUBR	DRY	UNITS: IN LBS WHITE	VITON
	45	90	150	230	45	90	150	100 psig		100 psig	
1 1/2"	133	150	168	204	168	186	204	93	118	168	168
2	133	150	168	204	168	186	204	93	118	168	168
2 1/2"	159	177	195	230	195	212	239	112	136	195	195
3	248	274	301	363	301	336	372	174	211	230	230
4	327	363	398	478	398	443	496	229	279	398	398
5	540	602	673	805	673	743	823	378	471	673	673
6	1027	1124	1239	1363	1115	1221	1345	719	781	752	752
8	1513	1682	1867	2239	1867	2071	2301	1060	1308	1549	1549
10	2434	2708	3009	3611	3009	3345	3717	1705	2108	2213	2213
12	3372	3744	4160	4991	4160	4620	5133	2362	2914	3186	3186
14	4823	5354	5947		5947	6611	7346	3379	4166	5753	5753
16	6443	7160	7956		7956	8841	9824	4514	5574	8842	8842
18	8071	8965	9965		9965	11071	12302	5654	6981	11072	11072
20	10045	11160	12399		12399	13779	15311	7037	8686	13780	13780
22	12151	13496	15001		15001	16673	18523	8215	10143	16090	16090
24	11726	13027	12063		14479	16089	17877				
26	13762	15284	16992		16992	18877	20975				
28	20700	23001	25559		25559	28400	31559				
30	23081	25647	28497		28497	31665	35179				
32	26621	29577	32860		32860	36506	40560				
36	33878	37639	41825		41825	46471	51631				
38	39073	43542	58552		48233	53543	62835				
40	45047	23718	67437		55578	62039	83279				
42	49657	55419	74349		61277	68393	91810				
44	54498	60817	81969		67251	75057	100757				
48	64853	72375	97545		80031	89323	119900				

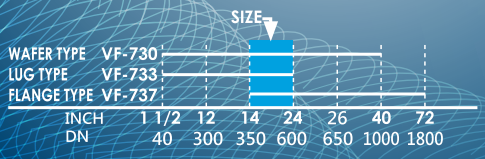
To use torque chart, note the following:
1. Seating / unseating torque valves above included friction bearing torque for stated Δp.
2. Do not apply a safety factor to above torque valves when determining actuator out put torque requirement.
3.Other dimensions please consult BVC. 4.Test medium: water / room temperature



PARTS AND MATERIALS



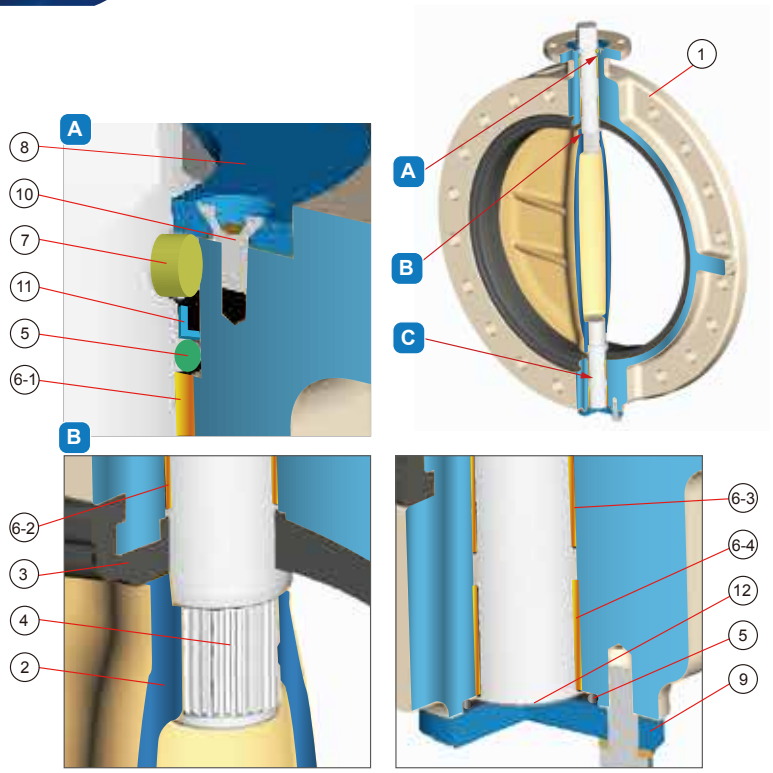
No.	NAME	MATERIAL	SPECIFICATION		REMARK
			JIS	ASTM	
1	BODY	CAST IRON	FC 200	A126 Cl. B	(opt) Nylon 11 coated
		DUCTILE IRON	FCD 450	A536-65-45-12	(opt) Nylon 11 coated
2	DISC	DUCTILE IRON	FCD 450	A536-65-45-12	Nylon 11 coated, Kynar(opt)
		STAINLESS STEEL	SCS 13A	A351 Gr. CF8	
			SCS 14A	A351 Gr. CF8M	(opt) Nylon 11
		ALU-BRONZE	ALBC 2	B148 C95400	
3	SEAT	NBR (NITRILE)			-10°C ~ 80°C (14 °F ~176 °F)
		EPDM			-20°C ~120°C (-4 °F ~248 °F)
		EPT(WHITE)			-20°C ~140°C (-4 °F ~284 °F)
		NEOPRENE(CR)			0°C ~ 80°C (32 °F ~176 °F)
		SILICON			-20°C ~180°C (-4 °F ~356 °F)
		HYPALON(CSM)			-20°C ~135°C (-4 °F ~275 °F)
		VITON			-18°C ~204°C (-0.4 °F ~400 °F)
4	SHAFT	STAINLESS STEEL	SUS 410	A182 Gr. F6A	
			SUS 304	A182 Gr. F304	
			SUS 316	A182 Gr. F316	
			SUS 630	A 564 Gr. 630	
5	O-RING	NBR(NITRILE)			*
6-1	BUSHING	DELRIN			*
6-2		RPTFE+STAINLESS STEEL	RPTFE+SUS 304	RPTFE+A240 Gr. 304	*
6-3		BRONZE	BC 6	B62	*For cast iron and ductile iron body, SS(opt)
7	PIN	STAINLESS STEEL	SUS 304	A182 Gr. F304	*



DN 350~600
INCH 14~24

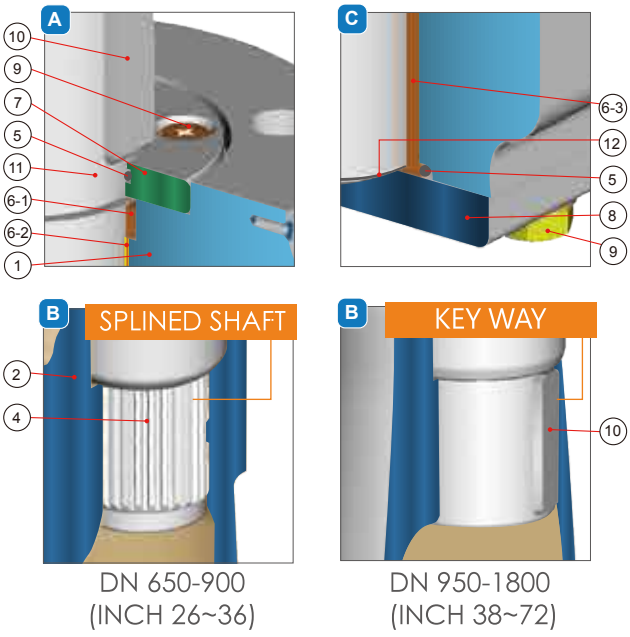
PARTS AND MATERIALS

Material



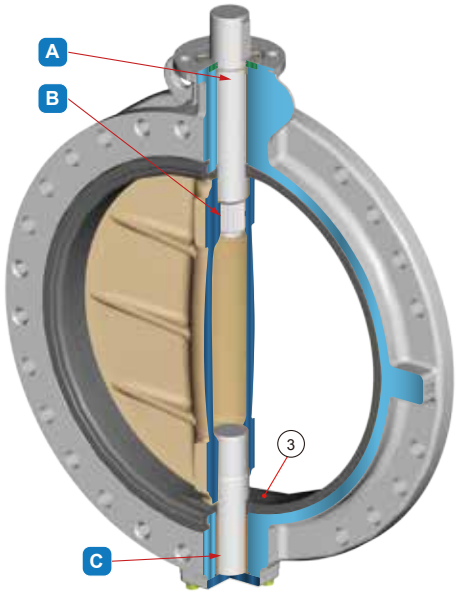
No.	NAME	MATERIAL	SPECIFICATION		REMARK
			JIS	ASTM	
1	BODY	CAST IRON	FC 200	A126 Cl. B	(opt) Nylon 11 coated
		DUCTILE IRON	FCD 450	A536-65-45-12	(opt) Nylon 11 coated
		STAINLESS STEEL	SCS 13A	A351 Gr.CF8	
			SCS 14A	A351 Gr.CF8M	
		CARBON STEEL	SC 480	A216 Gr. WCB	
2	DISC	DUCTILE IRON	FCD 450	A536-65-45-12	Nylon 11 coated , Kynar(opt)
		STAINLESS STEEL	SCS 13A	A351 Gr. CF8	
			SCS 14A	A351 Gr. CF8M	Nylon 11 coated (opt)
		ALU-BRONZE	ALBC 2	B148 C95400	
3	SEAT	NBR (NITRILE)			-10℃ ~ 80℃ (14 °F ~176 °F)
		EPDM			-20℃ ~120℃ (-4 °F ~248 °F)
		EPT(WHITE)			-20℃ ~140℃ (-4 °F ~284 °F)
		NEOPRENE(CR)			0℃ ~ 80℃ (32 °F ~176 °F)
		SILICON			-20℃ ~180℃ (-4 °F ~356 °F)
		HYPALON(CSM)			-20℃ ~135℃ (-4 °F ~275 °F)
		VITON			-18℃ ~204℃ (-0.4 °F ~400 °F)
4	SHAFT	STAINLESS STEEL	SUS 410	A182 Gr. F6A	
			SUS 304	A182 Gr. F304	
			SUS 316	A182 Gr. F316	
			SUS 630	A 564 Gr. 630	
5	O-RING	NBR(NITRILE)			*
6-1 6-2 6-3 6-4	BUSHING	RPTFE+STAINLESS STEEL	RPTFE+SUS 304	RPTFE+A240 Gr. 304	
7	PIN	STAINLESS STEEL	SUS 304	A182 Gr. F304	*
8	UPPER COVER	CAST IRON	FC 200	A126 Cl. B	For cast iron and ductile iron body
		STAINLESS STEEL	SUS 304	A240 304	For stainless steel body
9	BOTTOM COVER	CAST IRON	FC 200	A126-B	For cast iron and ductile iron body
		STAINLESS STEEL	SUS 13A	A351 Gr.CF8	For stainless steel body
10	BOLT	STEEL			
11	THRUST RING	STAINLESS STEEL	SUS 304	A240 Gr. 304	*
12	PACKING	PTFE			

PARTS AND MATERIALS



DN 650-900
(INCH 26~36)

DN 950-1800
(INCH 38~72)



No.	NAME	MATERIAL	SPECIFICATION		REMARK
			JIS	ASTM	
1	BODY	DUCTILE IRON	FCD450	A536-65-45-12	
		STAINLESS STEEL	SCS 13A	A351 Gr.CF8	
			SCS 14A	A351 Gr.CF8M	
		CARBON STEEL	SC 480	A216 Gr. WCB	
2	DISC	DUCTILE IRON	FCD 450	A536-65-45-12	Nylon 11 coated
		STAINLESS STEEL	SCS 13A	A351 Gr. CF8	
			SCS 14A	A351 Gr. CF8M	
		ALU-BRONZE	ALBC 2	B148 C95400	
3	SEAT	NBR (NITRILE)			-10℃ ~ 80℃ (14 °F ~176 °F)
		EPDM			-20℃ ~120℃ (-4 °F ~248 °F)
		EPT			-20℃ ~140℃ (-4 °F ~284 °F)
		NEOPRENE(CR)			0℃ ~ 80℃ (32 °F ~176 °F)
		SILICON			-20℃ ~180℃ (-4 °F ~356 °F)
		HYPALON(CSM)			-20℃ ~135℃ (-4 °F ~275 °F)
		VITON			-18℃ ~204℃ (-0.4 °F ~400 °F)
4	SHAFT	STAINLESS STEEL	SUS 410	A182 Gr. F6A	
			SUS 304	A182 Gr. F304	
			SUS 316	A182 Gr. F316	
			SUS 630	A 564 Gr. 630	
5	O-RING	NBR(NITRILE)			*
6-1	BUSHING	BRONZE	BC 6	B62	
6-2					
6-3		PTFE+316 SS			
7	UPPER COVER	STEEL	SS 400	A36	For cast iron and ductile iron body
		STAINLESS STEEL	SUS 304	A240 Gr. 304	For stainless steel body
8	BOTTOM COVER	CAST IRON	FC 200	A126 Cl. B	For cast iron and ductile iron body
		STAINLESS STEEL	SUS 13A	A351 Gr.CF8	For stainless steel body
			SUS 14A	A351 Gr.CF8M	
9	BOLT	STEEL			
10	KEY	STEEL			
11	THRUST RING	STAINLESS STEEL	SUS 304	A240 Gr. 304	
12	PACKING	PTFE			

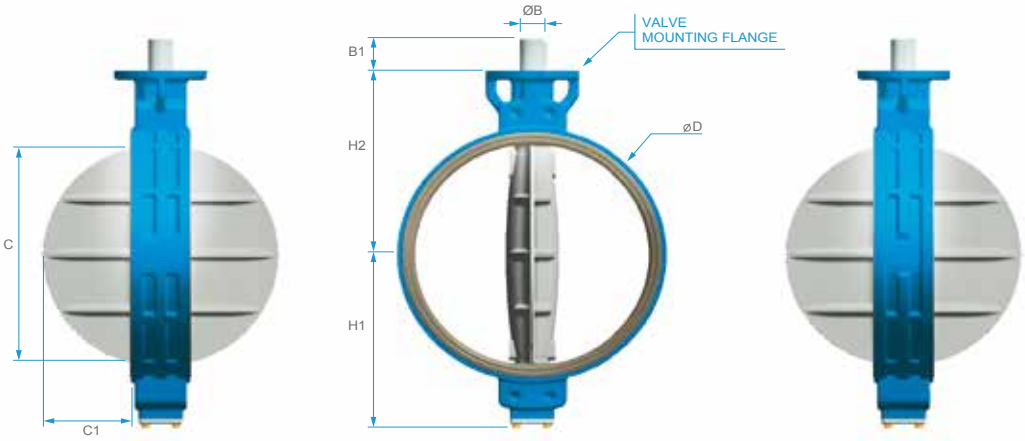
VF-730 WAFER TYPE

DN 40~1000
INCH 1 1/2~40

DIMENSIONS

DN 40~ 600
INCH 1 1/2”~24”

DN 650~1000
INCH 26”~40”



UNIT : INCHES

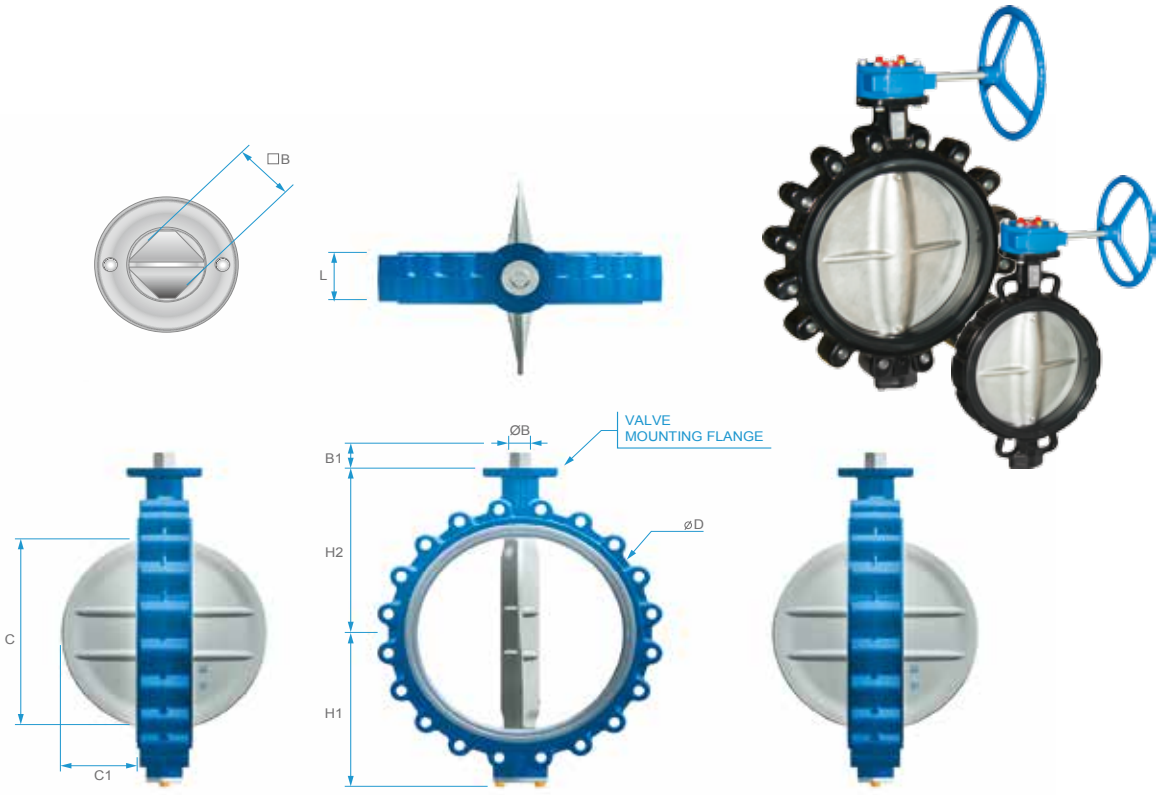
Size	Face to Face	Dimensions					Mounting flange (ISO 5211)		Shaft end					Weight
							VALVE							
Inch	L	H1	H2	φD	C	C1	ISO(Std)/ OPT	PCD(Std)/ OPT	φB	B1	B2	Key (H*W)	□B	Lbs
1 1/2"	1.30	2.36	4.72	3.19	1.34	0.28	FO7	2.76	0.55	0.75	--		0.43	4
2	1.69	2.56	5.63	3.78	1.54	0.31	FO7	2.76	0.55	0.75	--		0.43	7
2 1/2"	1.81	2.80	6.10	4.33	2.17	0.51	FO7	2.76	0.55	0.75	--		0.43	9
3	1.81	3.03	6.38	4.88	2.72	0.75	FO7	2.76	0.55	0.75	--		0.43	9
4	2.05	4.21	7.13	5.83	3.58	1.06	FO7	2.76	0.55	0.75	--		0.43	13
5	2.20	4.80	7.76	7.09	4.53	1.42	FO7	2.76	0.71	0.75	--		0.55	18
6	2.20	5.91	8.27	8.11	5.51	1.85	FO7	2.76	0.71	0.75	--		0.55	20
8	2.36	6.50	9.45	10.20	7.32	2.68	F10/F12	4.02/4.92	0.87	0.94	--		0.67	31
10	2.68	7.91	11.26	12.60	9.41	3.54	F10/F12	4.02/4.92	0.98	0.94	--		0.75	48
12	3.07	9.21	12.17	14.57	11.38	4.37	F10/F12	4.02/4.92	1.10	0.94	--		0.87	73
14	3.07	11.93	12.95	16.22	12.80	5.04	F12/F14	4.92/5.51	1.38	1.14	--		1.06	106
16	4.02	13.19	14.21	18.70	14.76	5.63	F12/F14	4.92/5.51	1.38	1.14	--		1.06	132
18	4.49	14.29	15.47	20.87	16.65	6.38	F14/F16	5.51/6.50	1.89	1.50	--		1.42	176
20	5.00	15.63	16.81	23.03	18.62	7.17	F14/F16	5.51/6.50	1.89	1.50	--		1.42	275
22	6.06	16.77	18.70	25.00	19.96	7.32	F14/F16	5.51/6.50	1.89	1.50	--		1.42	286
24	6.06	18.07	19.37	27.05	22.05	8.43	F16	6.50	2.36	1.89	--		1.81	440
26	6.50	19.25	20.28	28.03	23.90	9.13	F16	6.50	2.56	3.54	2.74	.71X.47	-	427
28	6.50	20.12	22.17	3.11	25.79	10.04	F16	6.50	2.95	3.54	3.08	.79X.47	-	548
30	7.48	21.42	23.03	33.31	27.24	10.39	F25	10.00	2.95	4.33	3.12	.79X.47	-	695
32	7.48	23.31	24.80	34.25	28.98	11.22	F25	10.00	3.15	4.33	3.44	.94X.63	-	803
36	7.99	24.88	25.98	38.27	33.11	13.03	F25	10.00	3.35	4.33	3.64	.94X.63	-	933
40	8.50	27.48	29.49	42.91	37.05	14.76	F30	11.73	3.94	6.10	4.15	1.10X.63	-	1426

Dimension

DN 40~600
INCH 1 1/2~24

LUG TYPE VF-733

DIMENSIONS



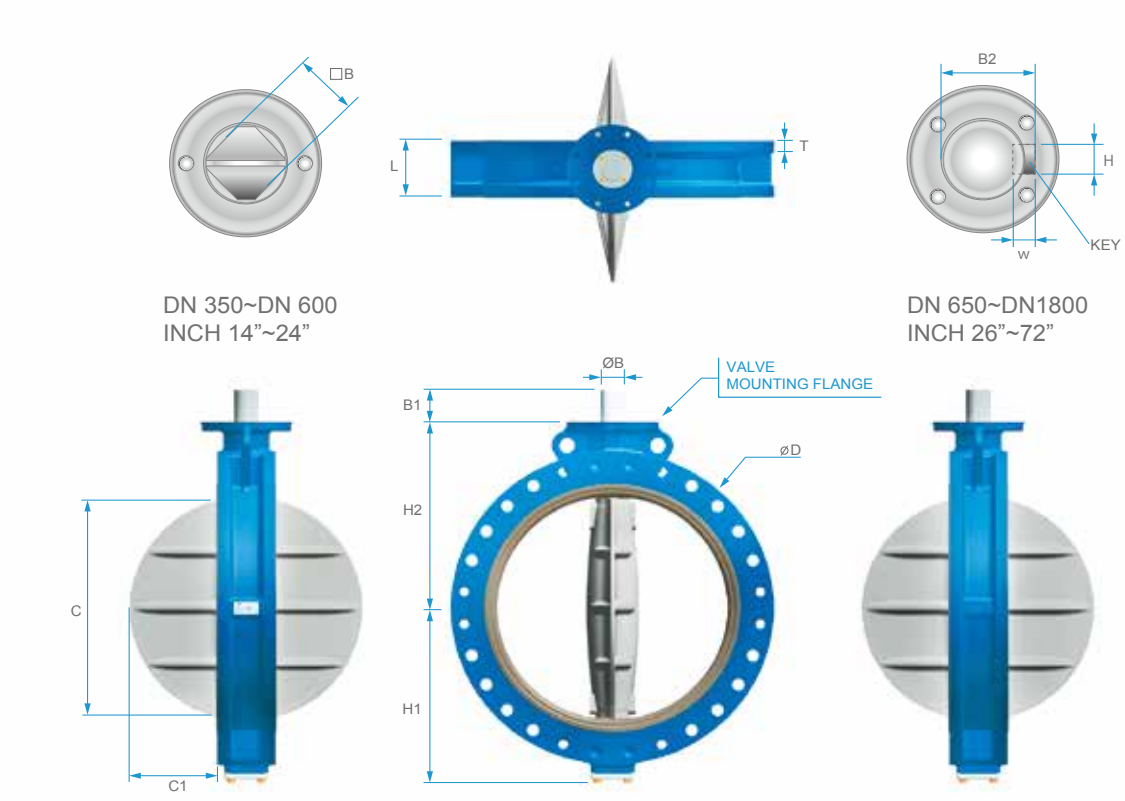
UNIT : INCHES

Size	Face to Face	Dimensions					Mounting flange (ISO 5211)		Shaft end			Weight
Inch	L	H1	H2	φD	C	C1	VALVE ISO(Std)/ OPT	VALVE PCD(Std)/ OPT	φB	B1	□B	Lbs
1 1/2"	1.30	2.36	4.72	3.19	1.34	0.28	FO7	2.76	0.55	0.75	0.43	7
2	1.69	2.56	5.63	3.78	1.54	0.31	FO7	2.76	0.55	0.75	0.43	9
2 1/2"	1.81	2.80	6.10	4.33	2.17	0.51	FO7	2.76	0.55	0.75	0.43	9
3	1.81	3.50	6.38	4.88	2.72	0.75	FO7	2.76	0.55	0.75	0.43	11
4	2.05	4.41	7.13	5.83	3.58	1.06	FO7	2.76	0.55	0.75	0.43	18
5	2.20	4.84	7.76	7.09	4.53	1.42	FO7	2.76	0.71	0.75	0.55	22
6	2.20	5.91	8.27	8.11	5.51	1.85	FO7	2.76	0.71	0.75	0.55	24
8	2.36	7.05	9.45	10.20	7.32	2.68	F10/F12	4.02/4.92	0.87	0.94	0.67	40
10	2.68	8.50	11.26	12.60	9.41	3.54	F10/F12	4.02/4.92	0.98	0.94	0.75	59
12	3.07	11.93	12.17	14.57	11.38	4.37	F10/F12	4.02/4.92	1.10	0.94	0.87	97
14	3.07	13.19	12.95	16.22	12.80	5.04	F12/F14	4.92/5.51	1.38	1.14	1.06	128
16	4.02	14.29	14.21	18.70	14.76	5.63	F12/F14	4.92/5.51	1.38	1.14	1.06	178
18	4.49	15.63	15.47	20.87	16.65	6.38	F14/F16	5.51/6.50	1.89	1.50	1.42	242
20	5.00	15.63	16.81	23.03	18.62	7.17	F14/F16	5.51/6.50	1.89	1.50	1.42	341
24	6.06	16.77	19.37	27.05	22.05	8.43	F16	6.50	2.36	1.89	1.81	700

1. Size of Stainless Steel is 12" and below, please see page13.
2. Inside Pipe Diameter > C

VF-737 FLANGE TYPE DN 350~1800 INCH 14~72

DIMENSIONS



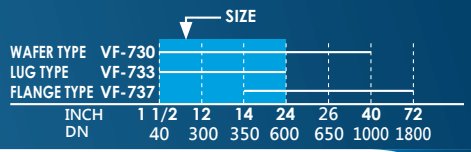
UNIT : INCHES

Size	Face to Face	Dimensions					Mounting flange (ISO 5211)		Shaft end					Thickness of Flange	Weight
							VALVE								
Inch	L	H1	H2	φD	C	C1	ISO(Std)/ OPT	PCD(Std)/ OPT	φB	B1	B2	Key (H*W)	□B	T	Lbs
14	3.07	11.93	12.95	21.06	12.80	0.28	F12/F14	4.92/6.50	1.38	1.14	--		1.06	46.20	152
16	4.02	13.19	14.21	23.62	14.76	0.31	F12/F14	4.92/6.50	1.38	1.14	--		1.06	48.40	209
18	4.49	14.29	15.47	25.51	16.65	0.51	F14/F16	6.50/6.61	1.89	1.50	--		1.42	59.40	284
20	5.00	15.63	16.81	28.15	18.62	0.75	F14/F16	6.50/6.61	1.89	1.50	--		1.42	66.00	354
22	6.06	16.77	18.70	30.00	19.96	1.06	F14/F16	6.50/6.61	1.89	1.50	--		1.42	68.20	420
24	6.06	18.07	19.37	33.07	22.05	1.42	F16	6.61	2.36	1.89	--		1.81	79.20	546
26	6.50	19.25	20.28	34.25	23.90	1.85	F16	6.61	2.56	3.54	2.74	.70X.47	-	88.00	647
28	6.50	20.12	22.17	36.50	25.79	2.68	F16	6.61	2.95	3.54	3.12	.79X.47	-	88.00	724
30	7.48	2.13	23.03	39.25	27.24	3.54	F25	10.00	2.95	4.33	3.12	.79X.47	-	88.00	948
32	7.48	23.31	24.80	41.73	28.98	4.37	F25	10.00	3.15	4.33	3.44	.94X.63	-	96.80	1115
36	7.99	24.88	25.98	46.06	33.11	5.04	F25	10.00	3.35	4.33	3.64	.94X.63	-	101.20	1366
38	8.50	26.85	28.70	48.74	35.00	5.63	F25	10.00	3.74	4.33	3.95	1.10X.63	-	110.00	1650
40	8.50	27.48	29.49	50.75	37.05	6.38	F30	11.73	3.94	6.10	4.15	1.10X.63	-	110.00	1782
42	8.50	29.96	32.01	52.99	38.54	7.17	F30	11.73	3.94	6.10	4.15	1.10X.63	-	110.00	1890
44	8.50	30.24	32.05	55.24	40.39	7.32	F30	11.73	4.33	7.09	4.58	1.26X.71	-	110.00	2048
48	10.00	32.05	34.25	59.49	44.57	8.43	F30	11.73	4.33	7.09	4.58	1.26X.71	-	123.20	2554

1. Inside Pipe Diameter > C

STAINLESS STEEL

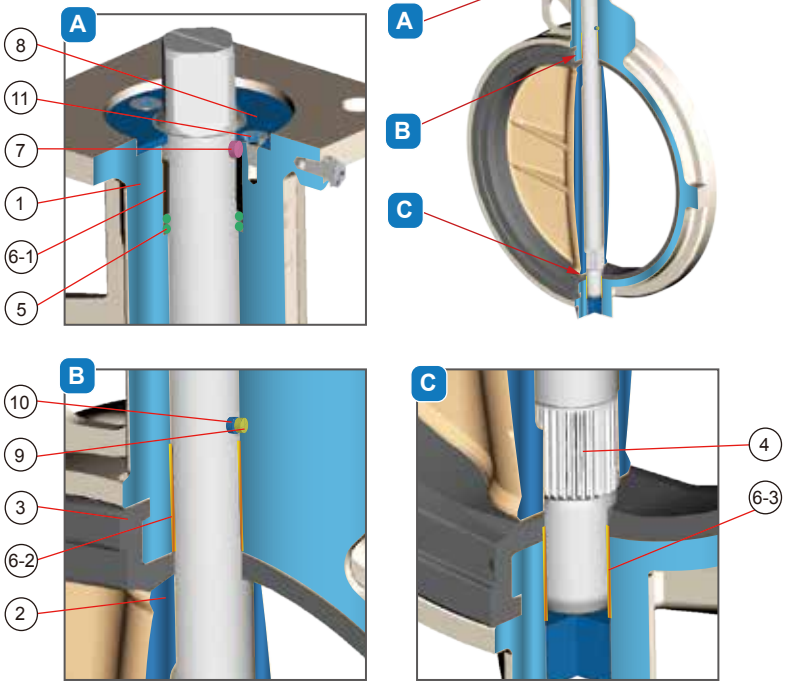
DN 40~600
INCH 1 1/2~24



PARTS AND MATERIALS

Value Valves offers a line of butterfly valves in 304 and 316 Stainless Steel, featuring Investment Cast Bodies (1) and Disc (2) from 1.5" to 24" in both Wafer and Lug style

This design has the same features as VF730/VF733 valves plus parts like RTFE+SS 304 bushings(6-2,6- 3) and a upper cover for Q-Pin retention(8), plus stainless steel levers ,gears ,actuators, solenoid valves and limit switches, for more aggressive applications



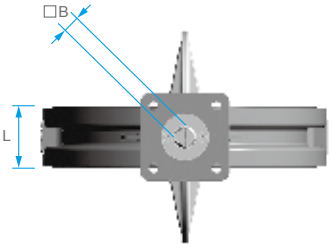
Above part #'s 9 and 10 show a required anti-static pin to eliminate any static that may develop between fluids and disc. Polished disc, to various finishes is available as well as White EPT Food Grade seat.

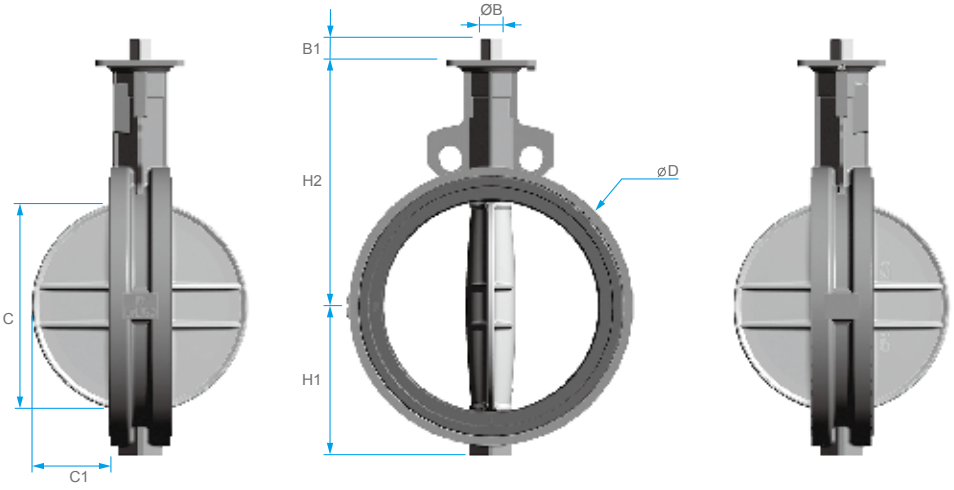
No.	NAME	MATERIAL	SPECIFICATION		REMARK
			JIS	ASTM	
1	BODY	STAINLESS STEEL	SCS 13A	A351 Gr.CF8	
			SCS 14A	A351 Gr.CF8M	
		CARBON STEEL	SC 480	A216 Gr. WCB	
2	DISC	STAINLESS STEEL	SCS 13A	A351 Gr. CF8	
			SCS 14A	A351 Gr. CF8M	(opt) Polished
3	SEAT	NBR (NITRILE)			-10℃ ~ 80℃ (14 ℉ ~176 ℉)
		EPDM			-20℃ ~120℃ (-4 ℉ ~248 ℉)
		EPT(WHITE)			-20℃ ~140℃ (-4 ℉ ~284 ℉)
		NEOPRENE(CR)			0℃ ~ 80℃ (32 ℉ ~176 ℉)
		SILICON			-20℃ ~180℃ (-4 ℉ ~356 ℉)
		HYPALON(CSM)			-20℃ ~135℃ (-4 ℉ ~275 ℉)
		VITON			-18℃ ~204℃ (-0.4 ℉ ~400 ℉)
4	SHAFT	STAINLESS STEEL	SUS 410	A182 Gr. F6A	
			SUS 304	A182 Gr. F304	
			SUS 316	A182 Gr. F316	
			SUS 630	A564 Gr. 630	
5	O-RING	NBR(NITRILE)			*
6-1	BUSHING	DELRIN			*
6-2		PRTFE+STAINLESS STEEL	RPTFE+SUS 304	RPTFE+A240 Gr. 304	*
6-3					
7	PIN	STAINLESS STEEL	SUS 304	A182 Gr. F304	*
8	UPPER COVER	STAINLESS STEEL	SUS 304	A240 Gr. F304	
9	PIN(ANTI-STATIC)	STAINLESS STEEL	SUS 304	A182 Gr. F304	*
10	SPRING	STAINLESS STEEL	SUS 304	A182 Gr. F304	*
11	BOLT	STAINLESS STEEL	SUS 304	A193 Gr. B8	

VF-730/733 STAINLESS STEEL

DN 25 - 600
INCH 1 1/2 - 24.0

DIMENSIONS





UNIT : INCHES

Size		Face to Face	Dimensions					Mounting flange (ISO 5211)		Flat shaft end			Conter Weight	Lbs
								VALVE						
mm	Inch	L	H1	H2	φD	C	C1	ISO(Std)/ OPT	PCD(Std)/ OPT	φB	B1	□B	Water	Lug
40	1 1/2"	1.30	2.36	4.72	3.19	1.34	0.28	FO7	2.76	0.55	0.75	0.43	7	8
50	2	1.69	2.56	5.63	3.78	1.54	0.31	FO7	2.76	0.55	0.75	0.43	9	10
65	2 1/2"	1.81	2.80	6.10	4.33	2.17	0.51	FO7	2.76	0.55	0.75	0.43	11	12
80	3	1.81	3.03	6.38	4.88	2.72	0.75	FO7	2.76	0.55	0.75	0.43	11	12
100	4	2.05	4.21	7.13	5.83	3.58	1.06	FO7	2.76	0.55	0.75	0.43	13	20
125	5	2.20	4.80	7.76	7.09	4.53	1.42	FO7	2.76	0.71	0.75	0.55	18	25
150	6	2.20	5.91	8.27	8.11	5.51	1.85	FO7	2.76	0.71	0.75	0.55	20	27
200	8	2.36	6.50	9.45	10.20	7.32	2.68	F10/F12	4.02/4.92	0.87	0.94	0.67	31	42
250	10	2.68	7.91	11.26	12.60	9.41	3.54	F10/F12	4.02/4.92	0.98	0.94	0.75	48	44
300	12	3.07	9.21	12.17	14.57	11.38	4.37	F10/F12	4.02/4.92	1.10	0.94	0.87	73	104

14"~24" Dimensions are same as iron body

Butterfly Valve Numbering System

Ordering Matrix

VF 7 SERIES

REV. MAR 30, 2016

4.0"	VF730	-	2	-	4	-	3		4	-	D	-	1	-	A
SIZE	STYLE		BODY		SEAT		DISC	STEM	OPERATOR (*see legend)		LIMIT SWITCH		SOLENOID / MOTOR		POSITIONER
	WAFER		CAST IRON		BUNA N		316SS	410SS	Air Operated@80 PSIG, U/C, D/A		SPDT, NEMA4, BEACON		120 VAC		A
1.5"	VF-730-WAFER RS		1-DUCTILE IRON [DI, ANSI 125/150 FLG]		1-VITON (150 MP)		0-ENP DUCTILE IRON	Please specify ONLY If stem material is different from standard valve configuration	0-BARE STEM		A-NONE		0-NONE		A-NONE
2.0"	VF-733-LUG RS		2-CAST IRON [CI,ANSI 125/150 FLG]		2-EPDM		1-NYLON / DUCTILE IRON (F/P)		2-10 POSITION HANDLE		B-SPDT, NEMA4, FLAT TOP		1-120/1/60 VAC		B-3-15 PSIG
2.5"	VF-737 FLANGED RS		3-CARBON STEEL[WCB ANSI 150]		2B-EPDM BONDED		2-NYLON/ DUCTILE IRON (U/C)		I-INFINITE POSITION		C-DPDT, NEMA4, FLAT TOP		2-220/1/60 VAC		C-4-20 Ma
3.0"	VF-810 WAFER H.P. ANSI 150#		3N-CARBON STEEL [WCB ANSI 150] WITH NACE MR0175		3-EPT-WHITE (100 psig)		3-316SS (F/P)		3-GEAR OPERATOR WITH WHEEL		D-SPDT, NEMA4, BEACON		3-24/1/60 VAC		D-1-5 VDC
4.0"	VF-813 LUG H.P. ANSI 150#		3D-CARBON STEEL[WCB, PN16 FLG]		4-BUNA N		3N- 316SS (F/P) WITH NACE MR0175		4-A/O@80 PSIG, U/C, D/A		E-DPDT, NEMA4, BEACON		4-220/3/60 VAC		E-2-10 VDC
5.0"	VF-910 WAFER H.P. ANSI 150#		4-316SS		4B-BUNA-N BONDED		3D-316SS (F/P, DRY ASSY)	410SS STEM STANDARD ON ALL IRON BODY VALVES	5-A/O@60 PSIG, U/C, D/A		F-SPDT, NEMA7, FLAT TOP		5-380/3/60 VAC		S-SPECIAL
6.0"	VF-913 LUG H.P. ANSI 150#		5-304SS		5-EPT BLACK		4-316SS (U/C)		6-A/0@80 PSIG, F/P, D/A		G-DPDT, NEMA7, FLAT TOP		6-440/3/60 VAC		
8.0"	VF-920 WAFER H.P. ANSI 150# Fire Safe		6-CAST IRON NYLON COATED		6-SILICONE (100 MP)		5-ALUMINUM BRONZE (F/P)		7-A/O@60 PSIG, F/P, D/A		H-SPDT, NEMA7, BEACON		7-12 VDC		
10.0"	VF-923 LUG H.P. ANSI 150# Fire Safe		7-DUCTILE IRON NYLON COATED		7-HYPALON		6-ALUMINUM BRONZE (U/C)	316SS STEM STANDARD ON ALL 316SS BODY VALVES	8-A/O@80 PSIG, U/C, S/R		J-DPDT, NEMA7, BEACON		8-24 VDC		
12.0"	VF-930 WAFER H.P. ANSI 150# Metal Seat		8-316L SS A351 CF3		8-NEOPRENE		7-HAYLAR / DUCTILE IRON		9-A/O@60 PSIG, U/C, S/R		K-E/O 2 SPDT		9-12 VAC		
14.0"	VF-933 LUG H.P. ANSI 150# Metal Seat		9-DUPLEX S31863 A890 4A		9-PTFE / BUNA		8-NYLON COATED 316SS (F/P)		10-A/O@80 PSIG, F/P, S/R		L-E/O 4 SPDT		10-24 VAC		
16.0"	VF-940 WAFER H.P ANSI 300#		10-SUPER DUPLEX S32750 A890 5A		10-PTFE / WHITE		9-ENP SS	304SS STEM STANDARD ON ALL 304SS BODY VALVES	11-A/O@60 PSIG, F/P, S/R		PS-PLEASE SPECIFY				
18.0"	VF-943 LUG H.P. ANSI 300#				10S-THICK PTFE - SILICON BACKED		10-304 SS (F/P)		12-E/O FP, ON/OFF						
20.0"	VF-264 AWWA				11-GRTFE		11-304 SS (U/C)		13-E/O U/C, ON/OFF						
24.0"	VF-504 AWWA				12-GLTFE		12-316 SS POLISHED (U/C)	316 SS STEM IS STANDARD ON ALL H.P.-WCB BODY VALVES	14-E/O FP, MODULATING						
28.0"	VF-870 WAFER TRIPLE ECC				13-FS FIRE SAFE/PTFE		13-316 SS POLISHED (F/P)		15-E/O U/C, MODULATING						
30.0"	VF-873 LUG TRIPLE ECC				14-FS FIRE SAFE/GLTFE		14FP-DUCTILE IRON - 150 PSI	DA-DRY ASSY	SM-SPECIAL MOUNTING						
32.0"	VF-877 FLANGED TRIPLE ECC				15-PTFE / EPDM		14UC-DUCTILE IRON - 100 PSI	F-304SS							
36.0"					16-FS FIRE SAFE/GRTFE		15-PTFE COATED 316SS DISK (F/P)	M-316SS							
40.0"	WS90-WAFER SA H.P. ANSI 150#				17-METAL, INCONEL 718 - (NOTE 2)		16-316SS / PFA THICK COATING	P- 17-4 Ph (SS630)							
42.0"	WS93-LUG SA H.P. ANSI 150#						17-WCB/STELLITE(USE W/#18)	X-XM19							
44.0"					17S-METAL, 316SS - (NOTE 4)		18-316L SS A351 CF3	L-316L SS							
48.0"							19-DUPLEX S31863 A890 4A	D- S31803 Duplex							
					18-LAMINATED GRAPHITE		20-SUPER DUPLEX S32750 A890 5A	SP- SPECIAL PAINT							
					19-PTFE/SILICON SEAT RING		21-316SS / PTFE THICK COATING								
					20-THICK PFA - SILICON BACKED		22-304 SS POLISHED (U/C)								
							23-316SS / PFA THICK COATING								

LEGEND:		
A/O	-	AIR OPERATED
U/C	-	UNDERCUT / 87 PSIG
F/P	-	FULL PRESSURE
D/A	-	DOUBLE ACTING
S/R	-	SPRING RETURN
E/O	-	ELECTRIC OPERATED

NOTE 1:	F/P = 150, 230, 285, OR SPECIAL PSI MAX PRESSURE MP = MAX PRESSURE PSI U/C = 87 PSI MAX PRESSURE
NOTE 2:	Inconel 718 or See Valve Tag or Order for More Details
NOTE 3:	SA = SPECIAL ALLOY or See Valve Tag or Order for More Details
NOTE 4:	316SS or See Valve Tag or Order for More Details

NYLON COATED:		
STD NYLON BODY	-	BLACK
87 PSIG DISK (U/C)	-	BLUE
150 PSIG DISK (F/P)	-	BLACK
230 PSIG DISK (F/P)	-	GRAY
	-	
	-	

SEE ELECTRIC OPERATOR BROCHURE FOR COMPLETE OPTIONS

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