

ChemValve



Model 190
Lined Butterfly Valve

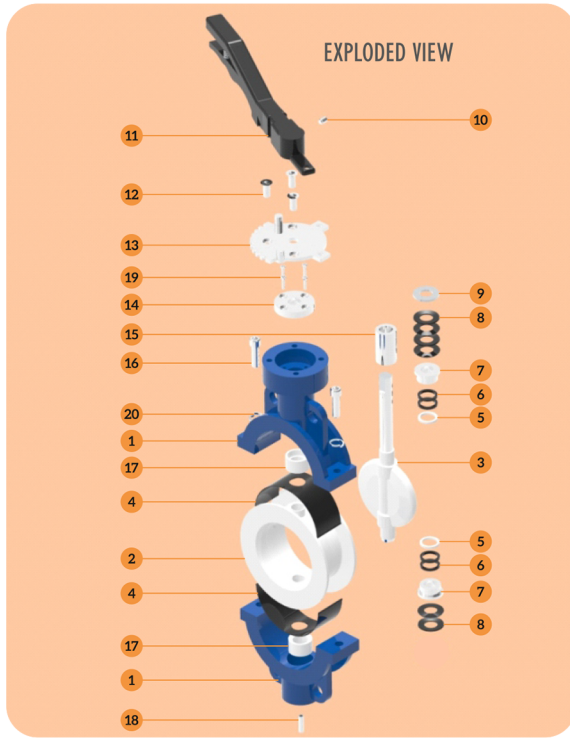


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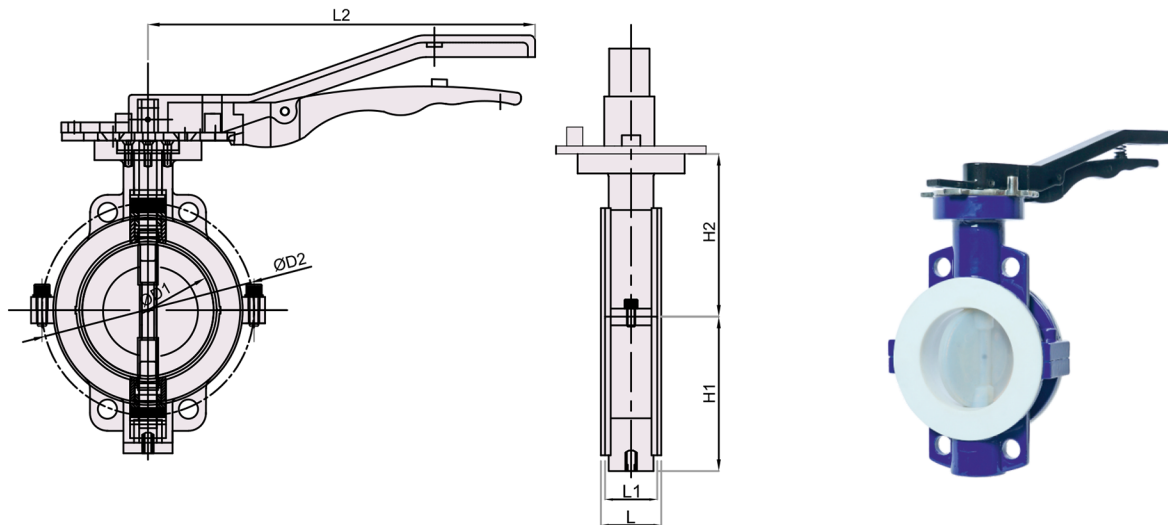
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LINED BUTTERFLY VALVE

LEVER OPERATED - WAFER (SEMI - LUG)



SECTIONAL VIEW



DIMENSIONS

SIZE		L ± .12 IN.		L1 ± .04 IN.		ØD1 ± .08 IN.		ØD2 ± .08 IN.		H1 ± .31 IN.		H2 ± .31 IN.		L2 ± .31 IN.	
INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
2"	50	1.85	47	1.69	43	1.97	50	4.76	121	3.27	83	4.33	110	10.47	266
2.5"	65	1.97	50	1.81	46	2.55	65	5.51	140	3.54	90	5.39	137	10.47	266
3"	80	1.97	50	1.81	46	2.95	75	6.00	152	3.54	90	5.04	128	10.47	266
4"	100	2.20	56	2.04	52	3.93	100	7.50	191	4.52	115	6.14	156	10.47	266

NOTE:

1. ALL DIMENSION ARE IN INCHES & MM. 2. FUGITIVE EMISSION/ SIL 3 CERTIFIED VALVES AVAILABLE. 3. TOLERANCES ARE GIVEN IN INCHES.

4. * BODY MOC OPTIONS: CF8, CF8M, CF3M, HASTELLOY C, INCONEL. 5. ** TRIM INSERT MOC OPTIONS : CF8M, CF3M, CD3MN.

6. *** LINING OPTIONS: ANTI-STATIC PFA, FER, PVDF, PPH.

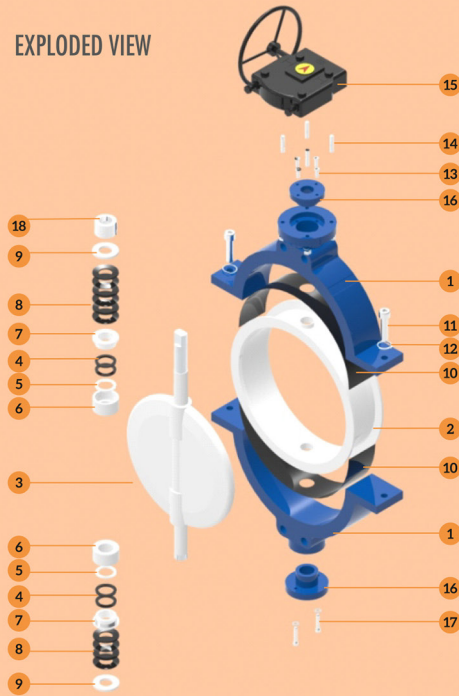
MATERIAL LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Body * (Top & Bottom)	ASTM A 216 GR. WCB
2	Seat	PTFE / MPTEF / TFM
3	Stem Integral with Disc **	ASTM A 890 GR. 4A (CD3MN) + PFA ***
4	Seat Pad	SILICON / VITON
5	Washer	PTFE
6	Gland Seals	VITON
7	T-Bush	SS 304
8	Disc Springs	50 Crv 4
9	Retainer	SS 304
10	Pin For Handle	STEEL
11	Handle	WCB / MS
12	Allen CSK Bolt for Teeth Plate	HT 12.9
13	Teeth Plate	MS / SS
14	Thrust Collar	SS 304
15	Sleeve	SS 304
16	Body Bolts	ASTM A 193 GR. B7
17	Seal Cup	PFA
18	Grub Screw	HT 12.9
19	Allen CSK for Top Thrust Collar	HT 12.9
20	Spring Washer	HT

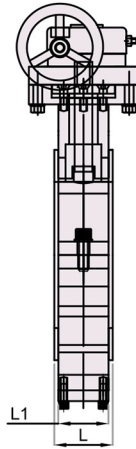
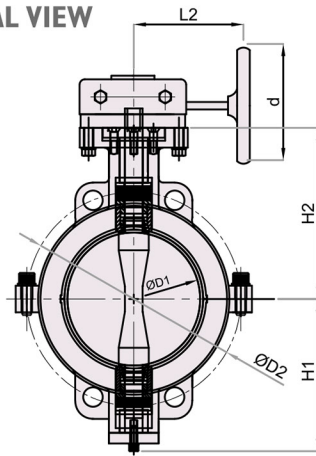
LINED BUTTERFLY VALVE

GEAR OPERATED – WAFER (SEMI - LUG)

EXPLODED VIEW



SECTIONAL VIEW



MATERIAL LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Body * (Top & Bottom)	ASTM A 216 GR. WCB
2	Seat	PTFE / MPTEF / TFM
3	Stem Integral with Disc **	ASTM A 890 GR. 4A (CD3MN) + PFA ***
4	Gland Seals	VITON
5	Washer	PTFE
6	Seal Cap	PFA
7	T-Bush	SS 304
8	Disc Spring	50 Crv 4
9	Retainer	SS 304
10	Seat Pads	SILICON / VITON
11	Body Bolts	ASTM A 193 GR. B7
12	Spring Washer	HT
13	Gland Bolts	HT 12.9
14	Gear Box Mounting Fasteners	SS 304
15	Gear Box	Cast Iron Epoxy Painted
16	Thrust Collar	SS 304
17	Bottom Cover Bolts	HT 12.9
18	Sleeve	SS 304



DIMENSIONS

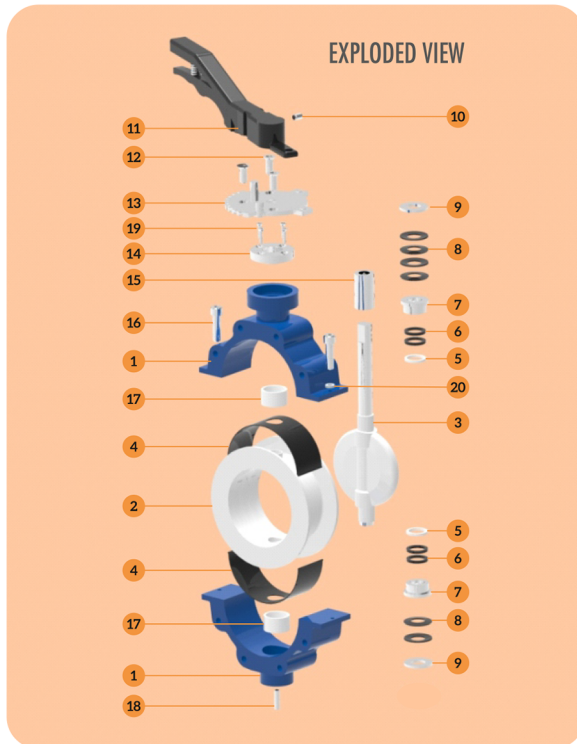
SIZE		L ± .12 IN.		L1 ± .04 IN.		ØD1 ± .08 IN.		ØD2 ± .08 IN.		H1 ± .31 IN.		H2 ± .31 IN.		L2 ± .31 IN.		d	
INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
5"	125	2.36	60	2.20	56	4.92	125	8.50	216	5.90	150	6.45	164	6.89	175	9.84	250
6"	150	2.36	60	2.20	56	5.90	150	9.49	241	6.37	162	7.63	194	6.89	175	9.84	250
8"	200	2.52	64	2.36	60	7.87	200	11.75	298	7.68	195	9.29	236	7.91	201	13.78	350
10"	250	2.83	72	2.68	68	9.84	250	14.25	362	9.21	234	9.88	251	7.91	201	13.78	350
12"	300	3.30	84	3.07	78	11.81	300	17.00	432	10.66	271	11.57	294	7.91	201	13.78	350
14"	350	3.30	84	3.07	78	13.78	350	18.70	476	11.61	295	12.40	315	7.91	201	13.78	350
16"	400	4.25	108	4.01	102	15.74	400	21.25	540	12.71	323	13.97	355	9.25	235	19.68	500

NOTE:

- ALL DIMENSION ARE IN INCHES & MM. 2. FUGITIVE EMISSION/ SIL 3 CERTIFIED VALVES AVAILABLE. 3. TOLERANCES ARE GIVEN IN INCHES.
- * BODY MOC OPTIONS: CF8, CF8M, CF3M, HASTELLOY C, INCONEL. 5. ** TRIM INSERT MOC OPTIONS : CF8M, CF3M, CD3MN.
- *** LINING OPTIONS: ANTI-STATIC PFA, FEP, PVDF, PPH.

LINED BUTTERFLY VALVE

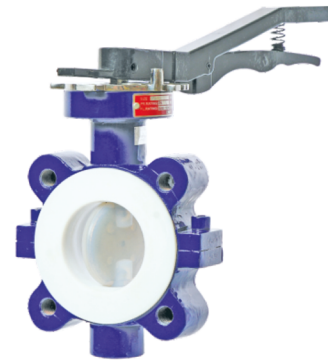
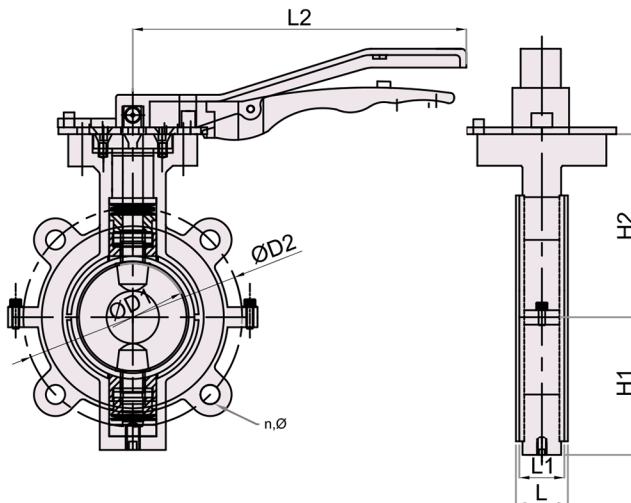
LEVER OPERATED – FULL LUG



MATERIAL LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Body * (Top & Bottom)	ASTM A 216 GR. WCB
2	Seat	PTFE / MPDTE / TFM
3	Stem integral with Disc **	ASTM A 890 GR. 4A (CD3MN) + PFA ***
4	Seat Pad	SILICON / VITON
5	Washer	PTFE
6	Gland Seals	VITON
7	T-Bush	SS 304
8	Disc Springs	50 Crv 4
9	Retainer	SS 304
10	Pin For Handle	STEEL
11	Handle	WCB / MS
12	Allen CSK Bolt for Teeth Plate	HT 12.9
13	Teeth Plate	MS / SS
14	Thrust Collar	SS 304
15	Sleeve	SS 304
16	Body Bolts	ASTM A 193 GR. B7
17	Seal Cup	PFA
18	Grub Screw	HT 12.9
19	Allen CSK for Top Thrust Collar	HT 12.9
20	Spring Washer	HT

SECTIONAL VIEW



DIMENSIONS

SIZE		L ± .12 IN.		L1 ± .04 IN.		ØD1 ± .08 IN.		ØD2 ± .08 IN.		H1 ± .31 IN.		H2 ± .31 IN.		L2 ± .31 IN.		n
INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	
2"	50	1.85	47	1.69	43	1.97	50	4.76	121	3.27	83	4.33	110	10.47	266	04
2.5"	65	1.97	50	1.81	46	2.55	65	5.51	140	3.54	90	5.39	137	10.47	266	04
3"	80	1.97	50	1.81	46	2.95	75	6.00	152	3.62	92	5.04	128	10.47	266	04
4"	100	2.20	56	2.04	52	3.93	100	7.5	191	4.52	115	6.18	157	10.47	266	08

NOTE:

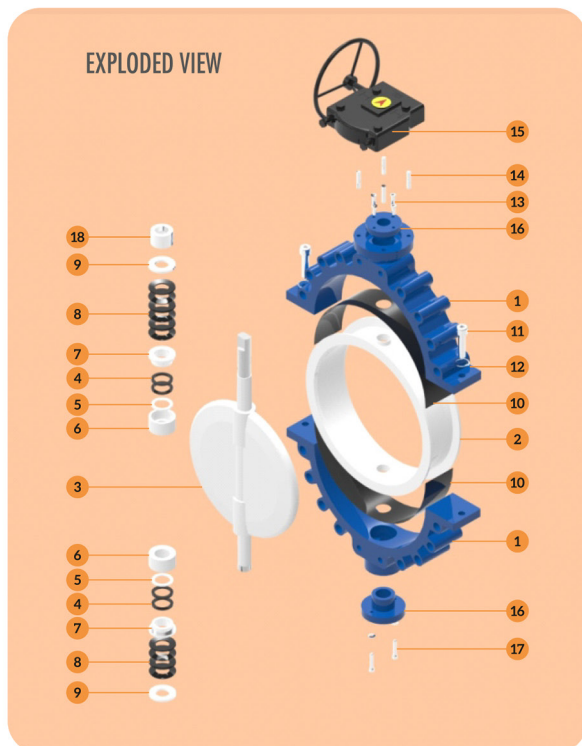
1. ALL DIMENSION ARE IN INCHES & MM. 2. FUGITIVE EMISSION/ SIL 3 CERTIFIED VALVES AVAILABLE. 3. TOLERANCES ARE GIVEN IN INCHES.

4. * BODY MOC OPTIONS: CF8, CF8M, CF3M, HASTELLOY C, INCONEL. 5. ** TRIM INSERT MOC OPTIONS : CF8M, CF3M, CD3MN.

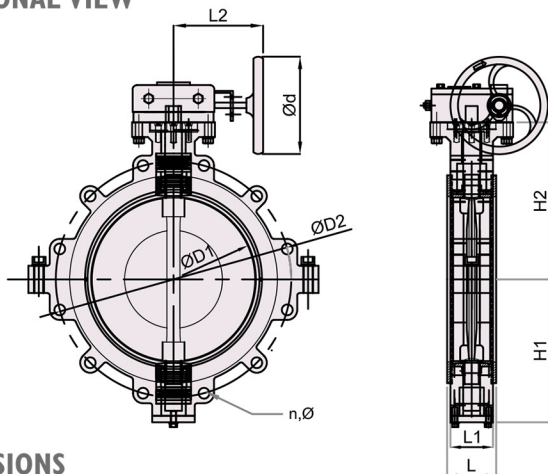
6. *** LINING OPTIONS: ANTI-STATIC PFA, FEP, PVDF, PPH.

LINED BUTTERFLY VALVE

GEAR OPERATED – FULL LUG



SECTIONAL VIEW



DIMENSIONS

SIZE		L ± .12 IN.		L1 ± .04 IN.		ØD1 ± .08 IN.		ØD2 ± .08 IN.		H1 ± .31 IN.		H2 ± .31 IN.		L2 ± .31 IN.		d		n
INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	
5"	125	2.36	60	2.20	56	4.92	125	8.50	216	5.98	152	6.45	164	6.89	175	9.84	250	08
6"	150	2.36	60	2.20	56	5.90	150	9.49	241	6.41	163	7.48	190	6.89	175	9.84	250	08
8"	200	2.52	64	2.36	60	7.87	200	11.75	298	7.68	198	9.13	232	7.91	201	13.78	350	08
10"	250	2.83	72	2.68	68	9.84	250	14.25	362	9.21	218	9.84	250	7.91	201	13.78	350	12
12"	300	3.30	84	3.07	78	11.81	300	17.00	432	10.66	265	11.33	288	7.91	201	13.78	350	12
14"	350	3.30	84	3.07	78	13.78	350	18.70	476	11.61	295	12.44	316	7.91	201	13.78	350	12
16"	400	4.25	108	4.01	102	15.74	400	21.25	540	12.71	335	13.97	355	9.84	250	19.68	500	16
18"	450	4.72	120	4.49	114	17.71	450	22.75	578	14.96	380	15.35	390	13.19	335	23.62	600	16
20"	500	5.23	133	5.00	127	19.44	494	25.00	635	16.73	425	16.73	425	13.58	345	23.62	600	20
24"	600	6.29	160	6.06	154	23.54	600	29.52	749	18.70	492	19.88	505	13.58	345	23.62	600	20

NOTE:

1. ALL DIMENSION ARE IN INCHES & MM. 2. FUGITIVE EMISSION/ SIL 3 CERTIFIED VALVES AVAILABLE. 3. TOLERANCES ARE GIVEN IN INCHES.
 4. * BODY MOC OPTIONS: CF8, CF8M, CF3M, HASTELLOY C, INCONEL. 5. ** TRIM INSERT MOC OPTIONS : CF8M, CF3M, CD3MN.
 6. *** LINING OPTIONS: ANTI-STATIC PFA, FEP, PVDF, PPH.

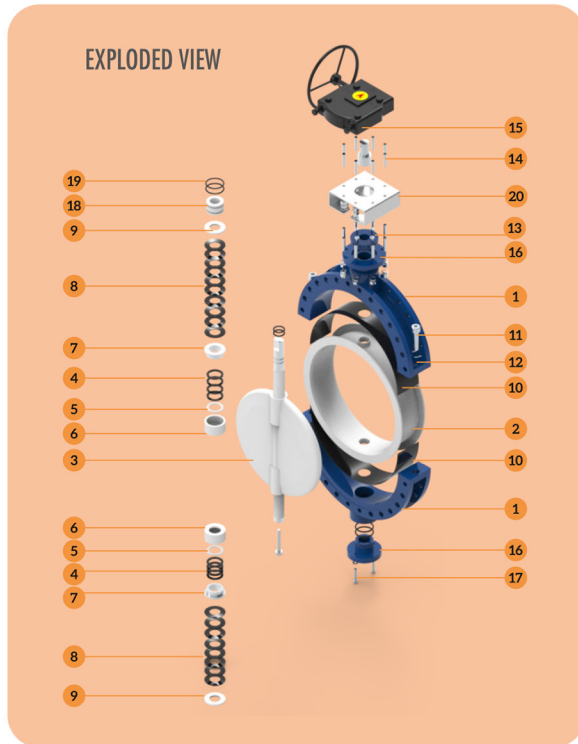
MATERIAL LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Body * (Top & Bottom)	ASTM A 216 GR. WCB
2	Seat	PTFE / MPTEF / TFM
3	Stem Integral with Disc **	ASTM A 890 GR. 4A (CD3MN) + PFA ***
4	Gland Seals	VITON
5	Washer	PTFE
6	Seal Cup	PFA
7	T-Bush	SS 304
8	Disc Spring	50 Crv 4
9	Retainer	SS 304
10	Seat Pads	SILICON / VITON
11	Body Bolts	ASTM A 193 GR. B7
12	Spring Washer	HT
13	Gland Bolts	HT 12.9
14	Gear Box Mounting Fasteners	SS 304
15	Gear Box	Cast Iron Epoxy Painted
16	Thrust Collar	SS 304
17	Bottom Cover Bolts	HT 12.9
18	Sleeve	SS 304



LINED BUTTERFLY VALVE

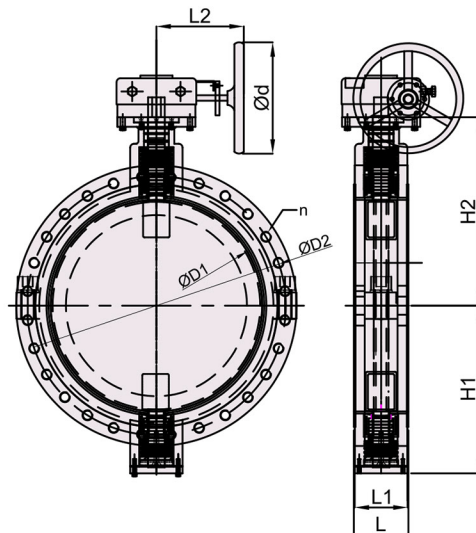
GEAR OPERATED – DOUBLE FLANGE TYPE



MATERIAL LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Body * (Top & Bottom)	ASTM A 216 GR. WCB
2	Seat	PTFE / MPTEE / TFM
3	Stem Integral with Disc **	ASTM A 890 GR. 4A (CD3MN) + PFA ***
4	Gland Seals	VITON
5	Washer	PTFE
6	Seal Cup	PFA
7	T-Bush	SS 304
8	Disc Spring	50 Crv 4
9	Retainer	SS 304
10	Seat Pads	SILICON / VITON
11	Body Bolts	ASTM A 193 GR. B7
12	Spring Washer	HT
13	Gland Bolts	HT 12.9
14	Gear Box Mounting Fasteners	SS 304
15	Gear Box	Cast Iron Epoxy Painted
16	Thrust Collar	SS 304
17	Bottom Cover Bolts	HT 12.9
18	Sleeve	SS 304
19	D-Ring for Sleeve	Viton
20	Clamp	SS 304

SECTIONAL VIEW



DIMENSIONS

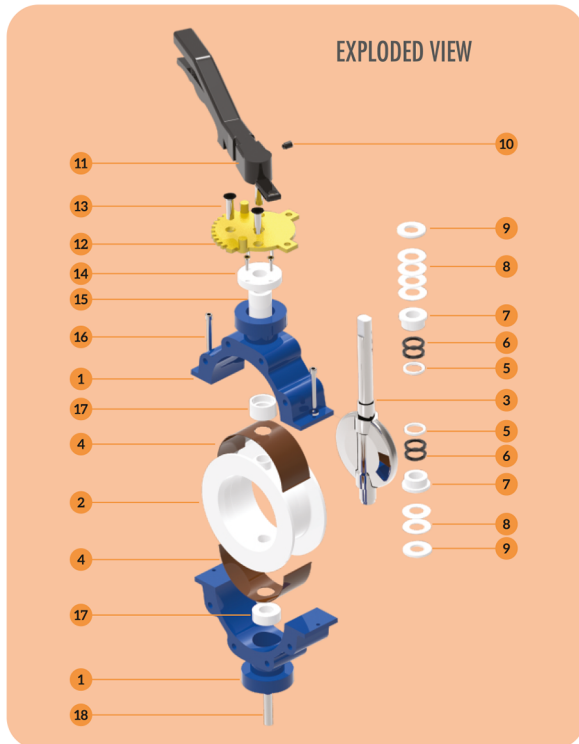
SIZE		L ± .12 IN.		L1 ± .04 IN.		ØD1 ± .08 IN.		ØD2 ± .08 IN.		H1 ± .31 IN.		H2 ± .31 IN.		L2 ± .31 IN.		d		n
INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	
28"	700	6.73	171	6.50	165	27.55	700	34.01	864	24.01	610	24.29	617	13.11	333	19.68	500	28
30"	750	6.73	171	6.50	165	29.52	750	35.98	914	25.03	636	26.96	685	17.71	450	23.62	600	28
32"	800	8.11	206	7.87	200	31.5	800	38.50	978	24.96	634	28.03	712	17.71	333	19.68	500	28

NOTE:

- ALL DIMENSION ARE IN INCHES & MM. 2. FUGITIVE EMISSION/ SIL 3 CERTIFIED VALVES AVAILABLE. 3. TOLERANCES ARE GIVEN IN INCHES.
- * BODY MOC OPTIONS: CF8, CF8M, CF3M, HASTELLOY C, INCONEL. 5. ** TRIM INSERT MOC OPTIONS : CF8M, CF3M, CD3MN.
- *** LINING OPTIONS: ANTI-STATIC PFA, FEP, PVDF, PPH.

METAL DISC BUTTERFLY VALVE

LEVER & GEAR OPERATED - FULL LUG & WAFER



NOTE:

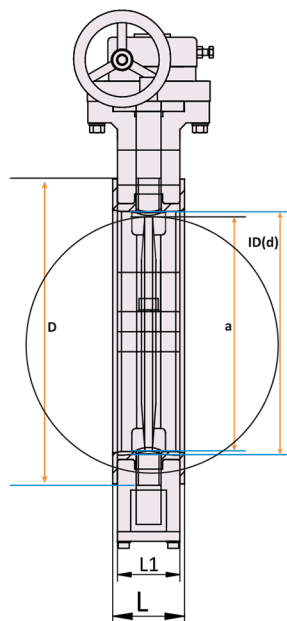
1. ALL DIMENSION ARE IN INCHES & MM. 2. FUGITIVE EMISSION/ SIL 3 CERTIFIED VALVES AVAILABLE. 3. TOLERANCES ARE GIVEN IN INCHES.
4. BODY MOC OPTIONS: CF8, CF8M, CF3M, HASTELLOY C, INCONEL.

MATERIAL LIST

PART NO.	DESCRIPTION	MATERIAL OF CONSTRUCTION
1	Body	ASTM A 216 GR. WCB
2	Seat	PTFE / MPDTE / TFM
3	Disc	Duplex / Super / Duplex /
4	Seat Pad	AL. Bronze / CF8 / CF8M
5	Washer	VITON / SILICON
6	Gland Seals	PTFE
7	T-Bush	VITON
8	Disc Springs	SS 304
9	Retainer	50 Crv 4
10	Pin For Handle	SS 304
11	Handle	STEEL
12	Teeth Plate	WCB
13	Allen CSK Bolts	WCB / SS
14	Thrust Collar Top	HT 12.9
15	Sleeve	SS 304
16	Body Bolts	SS 304
17	Bush	ASTM 193 GR. B7
18	Grub Screw	PFA
		STEEL

INSTALLATION DETAILS OF LINED BUTTERFLY VALVE

WAFER & LUGGED CONSTRUCTION

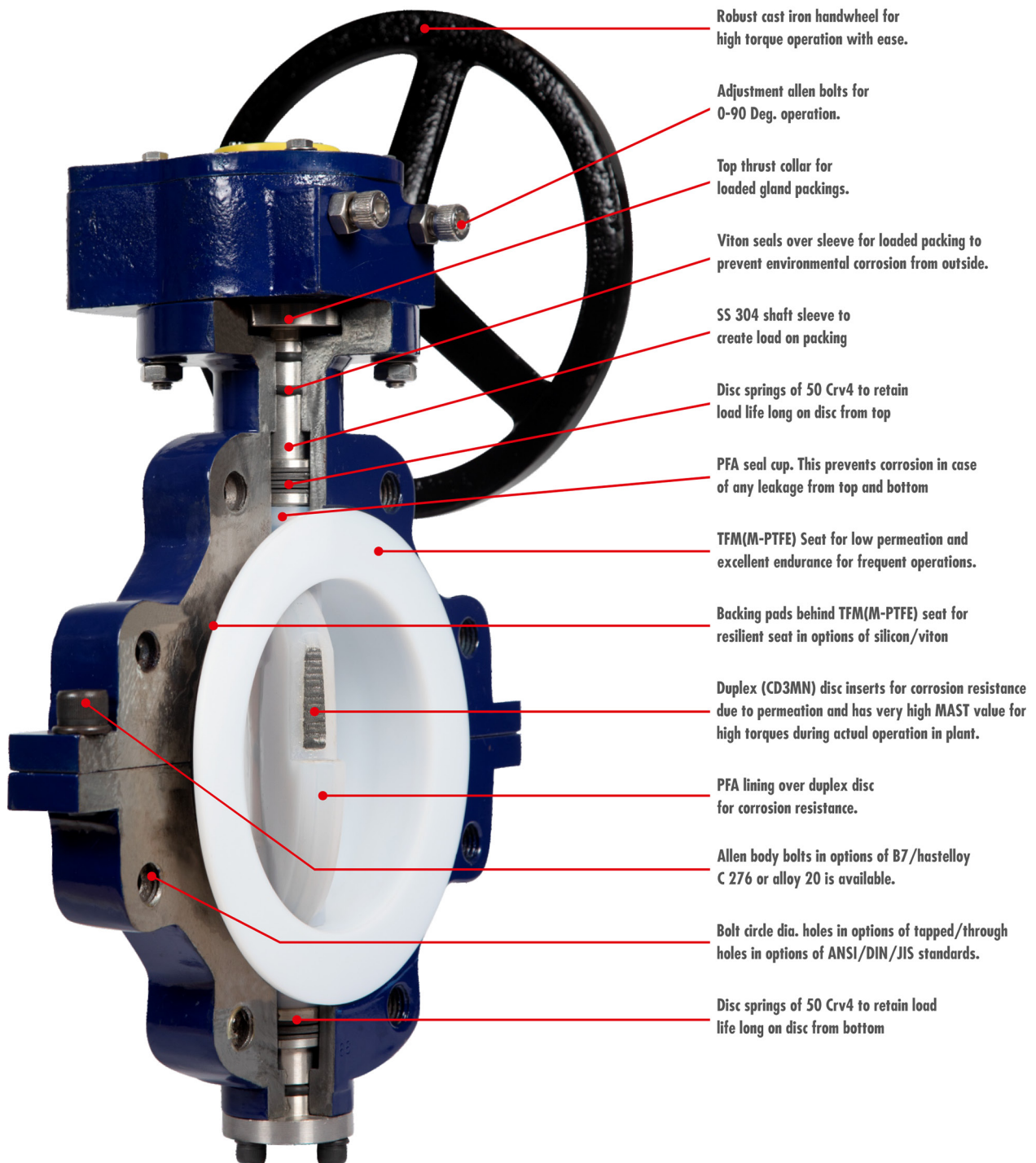


- L = Face to face dimension of Butterfly Valve
a = Chord of disc in open position
D = Raised Face (OD of seat)
- ID (d) = Minimum Pipe ID Required
50mm to 100mm size Lever Type, Above 100mm size Gear Type

MINIMUM PIPE ID REQUIRED FOR FULL DISC OPENING

Size (MM)	L		D		a		Pipe I.D Req.(d)	
	INCH	MM	INCH	MM	INCH	MM	INCH	MM
800	8.11	206	36.02	915	30.43	773	30.91	785
750	6.73	171	33.74	857	28.74	730	29.13	740
700	6.73	171	30.71	780	26.73	679	27.17	690
600	6.29	160	26.80	680	22.60	575	23.00	585
500	5.23	133	22.76	578	18.70	477	19.30	490
450	4.72	120	20.79	528	16.90	430	17.30	440
400	4.25	108	18.27	464	15.10	384	15.40	390
350	3.30	84	16.20	412	13.30	338	13.50	344
300	3.30	84	14.76	375	11.30	286	11.50	292
250	2.83	72	12.52	318	9.30	236	9.50	242
200	2.52	64	10.40	264	7.40	187	7.60	193
150	2.36	60	8.27	210	5.40	136	5.50	140
125	2.36	60	7.15	181	4.20	107	4.40	110
100	2.20	56	5.95	151	3.20	80	3.30	83
80	1.97	50	4.80	121	2.10	52	2.20	55
65	1.97	50	4.00	100	1.42	36	1.54	39
50	1.85	47	3.40	86	VALVE DISC OPEN INSIDE "L"			

VALVE FEATURES



Cv VALUES FOR BUTTERFLY VALVE AT DIFFERENT POSITIONS

SIZE	20°	30°	40°	50°	60°	70°	80°	90°
2"	5.8	13	28	49	74	107	137	155
2.5"	9.3	22	47	81	125	180	232	263
3"	17	38	83	145	220	313	388	455
4"	23	56	110	188	296	447	563	678
5"	44	95	191	296	528	748	945	1177
6"	70	151	273	458	748	1108	1415	1734
8"	110	267	539	922	1369	2105	2796	3538
10"	203	406	824	1346	1867	2807	4234	5232
12"	307	605	1154	1995	3091	4599	6914	8363
14"	406	765	1369	2088	3341	5278	8329	10161
16"	591	1142	1717	2842	4907	7598	10730	13166
18"	771	1456	2587	4466	7250	10672	14210	17284
20"	1032	1879	3456	6206	9454	13688	18050	20880
24"	1125	2494	4849	8607	13166	19082	24592	28420
28"	ON REQUEST							
30"	ON REQUEST							
32"	ON REQUEST							

PRODUCT DESIGN AND TESTS PERFORMED

DESIGN PARAMETERS	STANDARD
DESIGN STD	API 609
FLANGE CONNECTION RATING	ANSI B 16.5, 150# / DIN PN 10 / JIS
TESTING STANDARD	API 598 / BS EN 12266-1
CONNECTION	WAFFER / LUG

TESTS PERFORMED	API 598	API 598	API 598
SIZES	2" TO 16"	18" TO 24"	28" TO 32"
HIGH PR. SHELL TEST HYDRO	215 PSI 15 KG/CM ²	128 PSI 9 KG/CM ²	85 PSI 6 KG/CM ²
HIGH PR. SEAT TEST HYDRO	156 PSI 11 KG/CM ²	95 PSI 6.6 KG/CM ²	63 PSI 4.4 KG/CM ²
LOW PR. SEAT PNEUMATIC	85 PSI 6 KG/CM ²	85 PSI 6 KG/CM ²	57 PSI 4 KG/CM ²

SPARK TEST	KVDC
SPARK TEST	20 KDVC

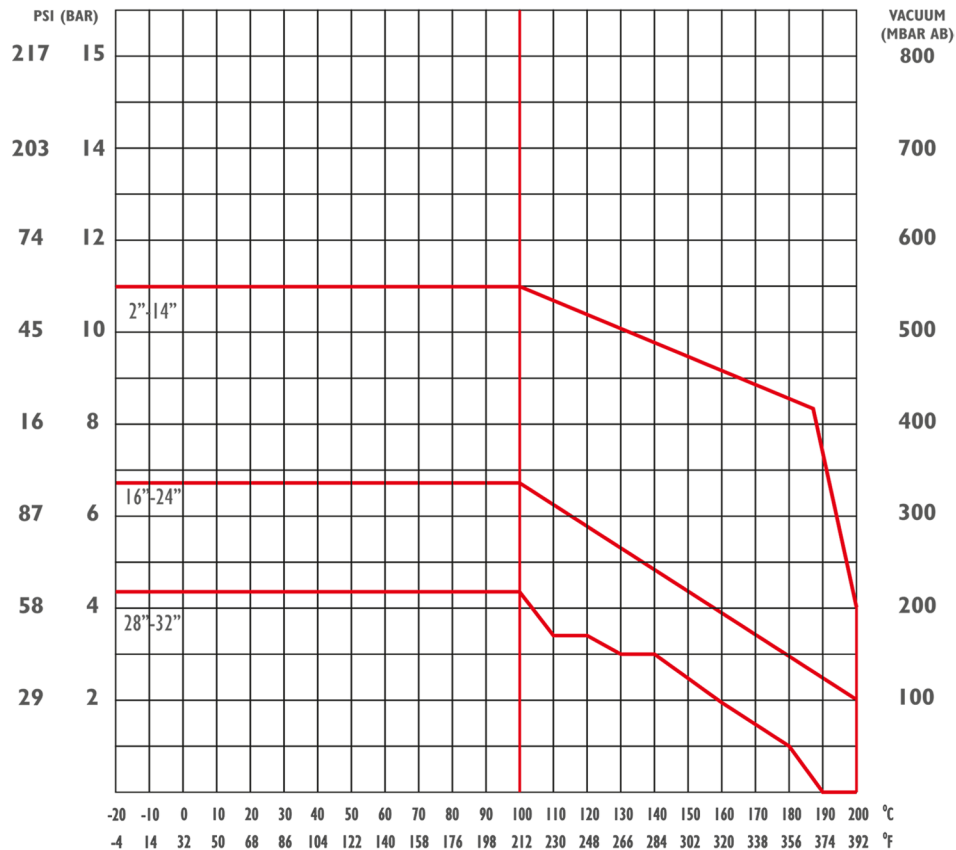
WEIGHT / VALVE

SIZE	KGS.		LBS.	
INCHES	WAFFER	FULLLUG	WAFFER	FULLLUG
2"	4.90	6.10	11.00	13.40
2.5"	5.10	6.50	11.25	14.30
3"	5.80	7.90	12.80	17.40
4"	7.90	13.90	17.40	30.65
5"	14.50	17.40	32.00	38.40
6"	17.50	25.40	38.60	56.00
8"	24.60	35.20	54.25	77.60
10"	42.50	50.50	93.70	111.35
12"	51.50	75.30	113.55	166.00
14"	55.00	84.00	121.25	185.20
16"	93.00	124.00	205.05	273.40
18"	-	131.00	-	288.80
20"	-	240.00	-	529.10
24"	-	350.00	-	771.62
28"	-	450.00	-	992.00
32"	-	614.00	-	1354.00

BREAK TORQUE VALUES FOR BUTTERFLY VALVES

SIZE IN.	TORQUE IN NM	TORQUE IN LB INCH
2	30	265
2.5	30	265
3	30	265
4	60	530
5	110	972
6	125	1105
8	180	1591
10	360	3183
12	480	4243
14	800	7072
16	1200	10608
18	2018	17840
20	2460	21746
24	3075	27183
28	4200	37170
30	5000	44250
32	6000	53100

PRESSURE - TEMPERATURE GRAPH FOR WCB + PFA / PTFE LINED BUTTERFLY VALVES



BUTTERFLY VALVE DE-CODE

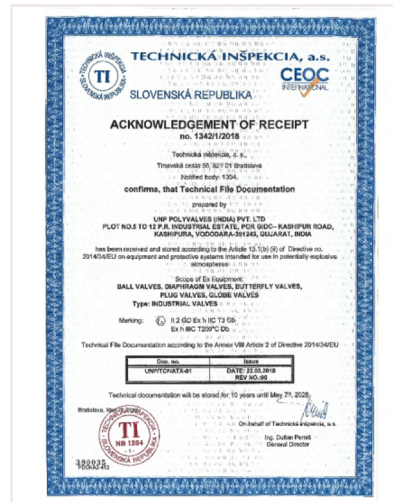
				BFWR	C01	T05	L1	F2	PS	XL	Y	E4	K0	O2
VALVE TYPE														
BFWR	Butterfly Valve - Wafer			BFFLFE FE	Butterfly Valve - Full Lug									
BFFL	Butterfly Valve - Full Lug			BFWRFE FE	Butterfly Valve - Wafer									
BODY CASTING														
C01	ASTM A216 Gr. WCB			C07	Hastealloy C									
C02	ASTM A351 CF8 (SS304)			C08	ASTM A351 CF3M (SS316L)									
C03	ASTM A351 CF8M (SS316)			C10	Inconel									
C04	Alloy 20			C11	Monel									
C05	Duplex			C12	ASTM A352 Gr. LCB									
C06	Super Duplex			C18	ASTM A995 Gr. 1B (CD4MCuN)									
VALVE TRIM INSERT														
T05	Duplex			T13	Inconel									
T06	Super Duplex			T14	Monel									
T11	Hastealloy C			T21	ASTM A890 Gr. 1A (CD4MCu)									
DISC LINING														
L1	PFA			L4	ETFE									
L2	FEP			L7	Antistatic PFA									
L3	PVDF													
FASTENERS														
F2	SS304			F9	Alloy 20									
F3	SS316			F7	PTFE Coated									
F4	High Tensile			F6	Hastealloy C									
F5	ASTM A193 Gr. B7			F10	SS316L									
F8	ASTM A193 Gr. B7M			F11	Monel									
SEAT & BACKING PAD														
PS	PTFE with Silicon Pad			TV	TFM with Viticon Pad									
PV	PTFE with Viticon Pad			8V	CBR with Viton Pad									
TS	TFM with Silicon Pad			PEV	UHMWPE with Viton Pad									
OPERATION														
XL	Lever			PD	Pneumatic Actuated Double Acting									
XG	Gear			ES	Elec. Actuated Single Acting									
XB	Bare Stem			EM	Elec. Actuated Modulating									
PS	Pneumatic Actuated Single Acting													
LOCKING ARRANGEMENT														
Y	Required													
N	Not Required													
END TO END DIMENSION														
E4	API 609 SERIES A													
FLANGE DRILLING STANDARD														
K0	ANSI B16.5 ISO#			K4	BS10 TABLE D & E									
K1	DIN PN10/16			K5	BS10 TABLE F									
K3	JIS			K6	ASME B16.47 SERIES A									
SIZE														
O2	2"			14	14"									
2H	2-1/2"			16	16"									
O3	3"			18	18"									
O4	4"			20	20"									
O5	5"			24	24"									
O6	6"			28	28"									
O8	8"			30	30"									
10	10"			32	32"									
12	12"													

SIZES ABOVE 32" AVAILABLE ON REQUEST

CERTIFICATION



ISO CERTIFICATE



ATEX CERTIFICATE



CE (VALVES) CERTIFICATE



CE (VALVES) CERTIFICATE



CE (PIPE & FITTINGS) CERTIFICATE



CE (PIPE & FITTINGS) CERTIFICATE

APPROVED
ISO 15848-1
FUGITIVE EMISSION CERTIFICATION
PFA LINED SIDE SPLIT
FULL PORT BALL VALVES
Size Range : 1/2" to 8"

APPROVED
ISO 15848-1
FUGITIVE EMISSION CERTIFICATION
PFA LINED PLUG VALVES
Size Range : 1/2" to 8"

APPROVED
ISO 15848-1
FUGITIVE EMISSION CERTIFICATION
PFA LINED BUTTERFLY VALVE
Size Range : 2" to 24"

APPROVED
IEC 61508:2010 PARTS 1-7
SIL 3 CAPABLE
Lined Ball Valve
Lined Butterfly Valve
Lined Plug Valve

APPROVED
DIN EN 14432:2014
PFA LINED BUTTERFLY VALVES
Size Range : 2" to 8"

APPROVED
DIN EN 14432:2014
PFA LINED SIDE SPLIT
DESIGN BALL VALVES
Size Range : 1" to 4"



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