



STANDARDS

- ISO 5211 mounting pad with square shaft permits direct mount actuation for manual (lever gear), pneumatic and electric actuators
- Valve Rating:
Top flange mounting pad: ISO 5211
Basic Design: API 609, MSS-SP-68, BS 5155, ISO 5752
Shell/Seat Test: API 598, MSS-SP-61
- Seat Hydro: Class 150 (360 psig): Class 300 (740 psig)

J Flow Controls Model 82 & 83 Series High Performance Butterfly Valves

FEATURES & BENEFITS

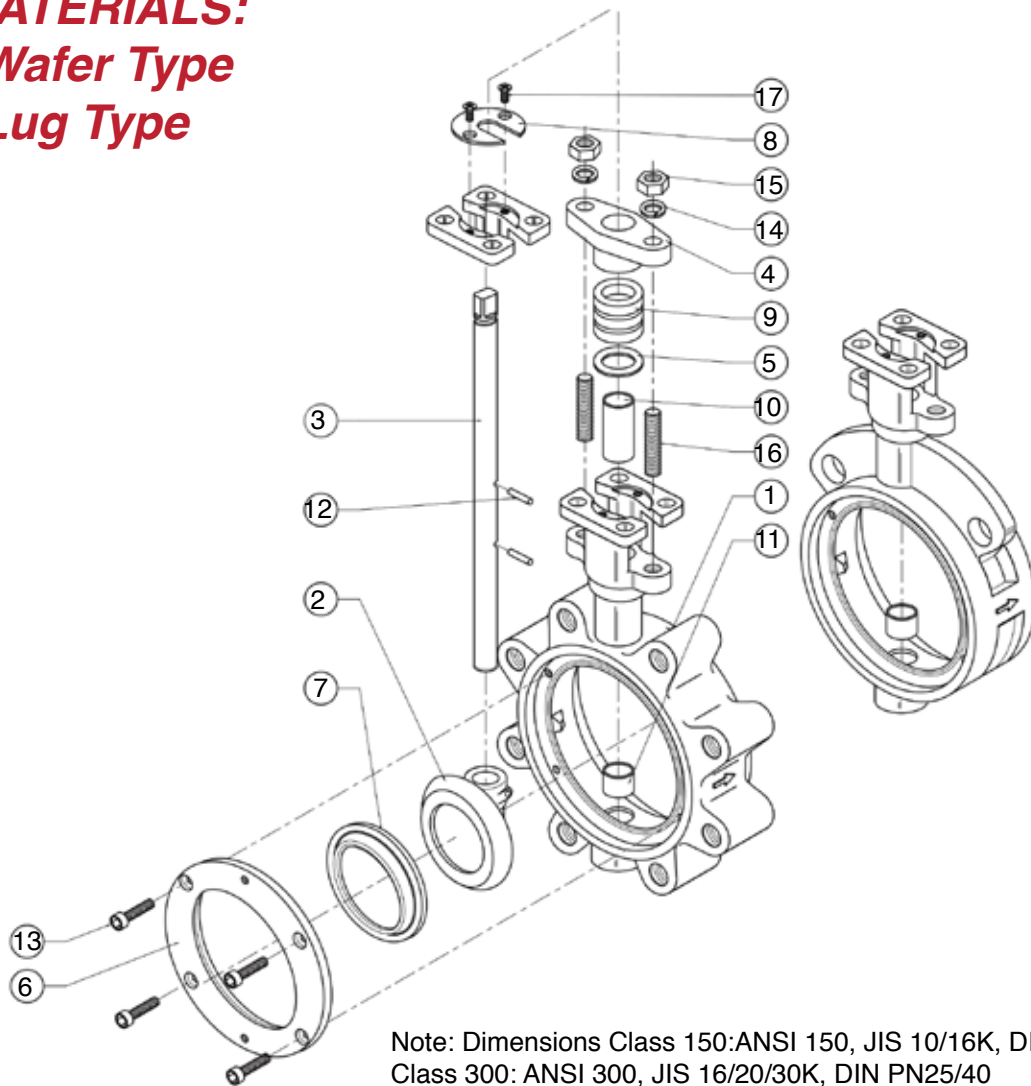
- Size: 2" ~ 24"
- Type: Wafer, Lug
- Pressure Rating: Class 150#, 300#
- Body Material: A216 WCB Cast Steel and A351 CF8M Stainless Steel
- Seat Material: Soft Seat: TFM-4215, PTFE, RTFE, NBR, EPDM, FKM; Metal Seat: A240 Tp 316 / 304
- Drilling: ANSI 150#, ANSI 300#
- Tight Shutoff
- Gland flange prevents uneven load distribution against packing
- Internal travel stop design to prevent over travel of the disc.
- High strength 1 piece stem in A564 Gr. 630

OPTIONS

- Optional Drilling: JIS 10/16K, DIN PN 10/16, JIS 20/30K, DIN PN 25/40

Model 82 & 83 Series Butterfly Valves

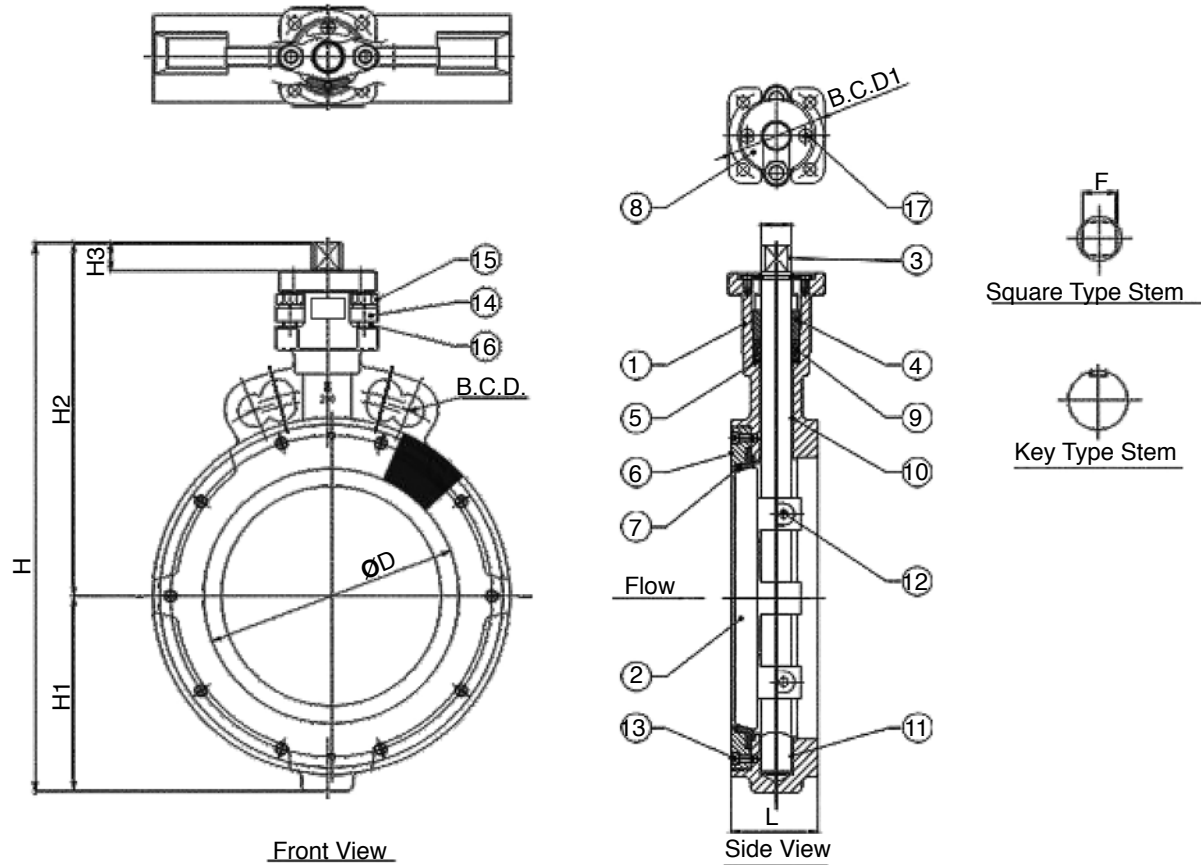
BILL OF MATERIALS: 82 Series Wafer Type 83 Series Lug Type



No	Description	Materials	Qty
1	Body	A216 WCB / A351 CF8M	1
2	Disc	A351 CF8M	1
3	Stem	A564 Gr. 630	1
4	Gland Flange	A216 WCB / A351 CF8M	1
5	Packing Retainer	A276 Tp 316	1
6	Retainer Ring	A351 CF8M	1
7	Seat	PTFE / RTFE / A240 Tp 316 / 304	1
8	Top Retainer	A283D - A36 / A276 Tp 316	1
9	Grand Packing	Graphite	3
10	Upper Bearing	RTFE + 316SS	1
11	Lower Bearing	RTFE + 316SS	1
12	Disc Pin	A276 Tp 316	2
13	Hex Socket Bolt	A283D - A36 / A276 316SS	4 - 14
14	Spring Washer	A283D - A36 / A276 316SS	2
15	Hex Nut	A283D - A36 / A276 316SS	2
16	Stud Bolt	A283D - A36 / A276 316SS	2
17	Flat Head Screw	A283D - A36 / A276 316SS	2

Model 82 & 83 Series Butterfly Valves

DIMENSIONS: Model 82 Series Wafer Type, Class 150



Size	H	H1	H2	H3	Ød	F	ØD	B.C.D1	L
2"	8.63	2.36	6.27	0.60	0.51	0.43	1.65	2.76	1.73
2-1/2"	9.54	2.75	6.78	0.60	0.63	0.55	2.40	2.76	1.81
3"	9.85	3.01	6.84	0.60	0.63	0.55	2.91	2.76	1.89
4"	11.07	3.54	7.53	0.70	0.63	0.55	3.70	2.76	2.13
5"	12.55	4.09	8.45	0.70	0.71	0.55	4.65	2.76	2.24
6"	13.62	4.53	9.09	0.75	0.87	0.67	5.51	2.76	2.28
8"	15.91	5.65	10.26	0.81	0.87	0.67	7.40	2.76	2.52
10"	18.44	6.69	11.75	0.81	1.10	0.87	9.39	4.02	2.81
12"	20.63	7.76	12.88	0.95	1.10	0.87	11.02	4.02	3.19

Model 82 & 83 Series Butterfly Valves

MATERIAL SELECTION: 82 Series Wafer Type Class 150

No	Description	#150 CS-STHW		#150 SS-STHW		Qty
		Soft Seat	Metal Seat	Soft Seat	Metal Seat	
1	Body	A216 WCB		A351 CF8M		1
2	Disc	A 351 CF8M				1
3	Stem	A 564 Gr. 630				1
4	Gland Flange	A216 WCB		A351 CF8M		1
5	Packing Retainer	A276 Tp 316				1
6	Retainer Ring	A351 CF8M				1
7	Seat	PTFE / RTFE	A240 Tp 316	PTFE / RPTFE	A240 Tp 316	1
			A240 Tp 304		A240 Tp 304	
8	Top Retainer	A283D-A36		A276 Tp 316		1
9	Grand Packing	Graphite				3
10	Upper Bearing	R.TFE + 316SS				1
11	Lower Bearing	RTFE + 316SS				1
12	Disc Pin	A276 Tp 316				2
13	Hex Socket Bolt	A283D-A36		A276 316SS		4 - 14
14	Spring Washer	A283D-A36		A276 316SS		2
15	Hex Nut	A283D-A36		A276 316SS		2
16	Stud Bolt	A283D-A36		A276 316SS		2
17	Flat Head Screw	A283D-A36		A276 316SS		2

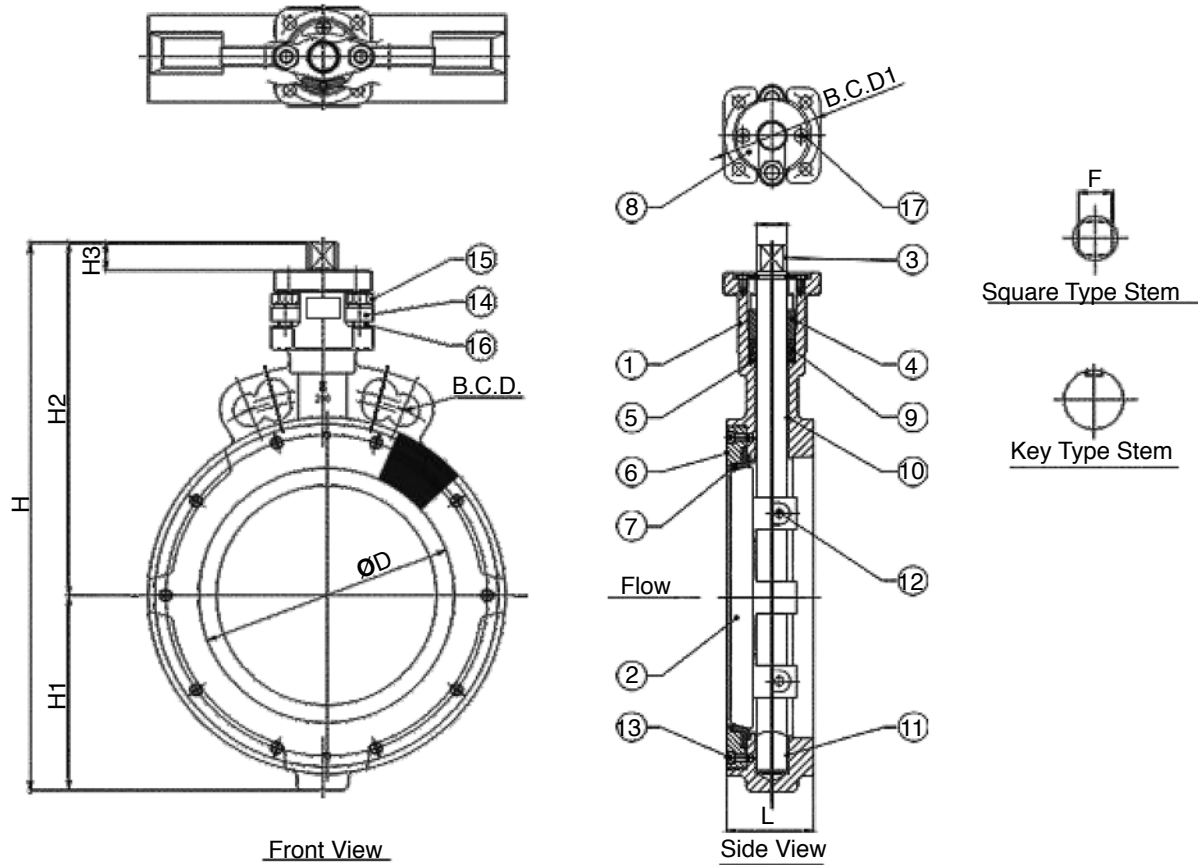
FLANGE DRILLING TABLE

Size	ANSI 150			J1S 10K			JIS 16K			PN10			PN16		
	IN	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n
2"	4.75	4	0.75	4.72	4	0.75	4.72	8	0.75	4.92	4	0.71	4.92	4	0.71
2-1/2"	5.50	4	0.75	5.51	4	0.75	5.51	8	0.75	5.71	4	0.71	5.71	4	0.71
3"	6.00	4	0.75	5.91	8	0.75	6.30	8	0.91	6.30	8	0.71	6.30	8	0.71
4"	7.50	8	0.75	6.89	8	0.75	7.28	8	0.91	7.09	8	0.71	7.09	8	0.71
5"	8.50	8	0.88	8.27	8	0.91	8.86	8	0.98	8.27	8	0.71	8.27	8	0.71
6"	9.50	8	0.88	9.45	8	0.91	10.24	12	0.98	9.45	8	0.87	9.45	8	0.87
8"	11.75	8	0.88	11.42	12	0.91	12.01	12	0.98	11.61	8	0.87	11.61	12	0.87
10"	14.25	12	1.00	13.98	12	0.98	14.96	12	1.06	13.78	12	0.87	13.98	12	1.02
12"	17.00	12	1.00	15.75	16	0.98	16.93	16	1.06	15.75	12	0.87	16.14	12	1.02

Note: 'n' Number of bolt holes
'h' Bolt hole diameter

Model 82 & 83 Series Butterfly Valves

DIMENSIONS: Model 82 Series Wafer Type, Class 300



Size	H	H1	H2	H3	Ød	F	ØD	B.C.D1	L
2"	8.63	2.36	6.27	0.60	0.51	0.43	1.65	2.76	1.73
2-1/2"	9.54	2.75	6.78	0.60	0.63	0.55	2.40	2.76	1.81
3"	9.85	3.01	6.84	0.60	0.63	0.55	2.91	2.76	1.89
4"	11.07	3.54	7.53	0.70	0.63	0.55	3.70	2.76	2.13
5"	12.55	4.09	8.45	0.70	0.71	0.55	4.65	2.76	2.24
6"	13.62	4.53	9.09	0.75	0.87	0.67	5.51	2.76	2.28
8"	15.91	5.65	10.26	0.81	1.10	0.67	7.40	4.02	2.87
10"	18.44	6.69	11.75	0.81	1.10	0.87	9.39	4.02	3.25
12"	20.48	7.60	12.88	0.95	1.10	0.87	11.02	4.02	3.62

Model 82 & 83 Series Butterfly Valves

MATERIAL SELECTION: 82 Series Wafer Type Class 300

No	Description	#300 CS-STHW		#300 SS-STHW		Qty
		Soft Seat	Metal Seat	Soft Seat	Metal Seat	
1	Body	A216 WCB		A351 CF8M		1
2	Disc	A 351 CF8M				1
3	Stem	A 564 Gr. 630				1
4	Gland Flange	A216 WCB		A351 CF8M		1
5	Packing Retainer	A276 Tp 316				1
6	Retainer Ring	A351 CF8M				1
7	Seat	PTFE / RTFE	A240 Tp 316	PTFE / RPTFE	A240 Tp 316	1
			A240 Tp 304		A240 Tp 304	
8	Top Retainer	A283D-A36		A276 Tp 316		1
9	Grand Packing	Graphite				3
10	Upper Bearing	R.TFE + 316SS				1
11	Lower Bearing	RTFE + 316SS				1
12	Disc Pin	A276 Tp 316				2
13	Hex Socket Bolt	A283D-A36		A276 316SS		4 - 14
14	Spring Washer	A283D-A36		A276 316SS		2
15	Hex Nut	A283D-A36		A276 316SS		2
16	Stud Bolt	A283D-A36		A276 316SS		2
17	Flat Head Screw	A283D-A36		A276 316SS		2

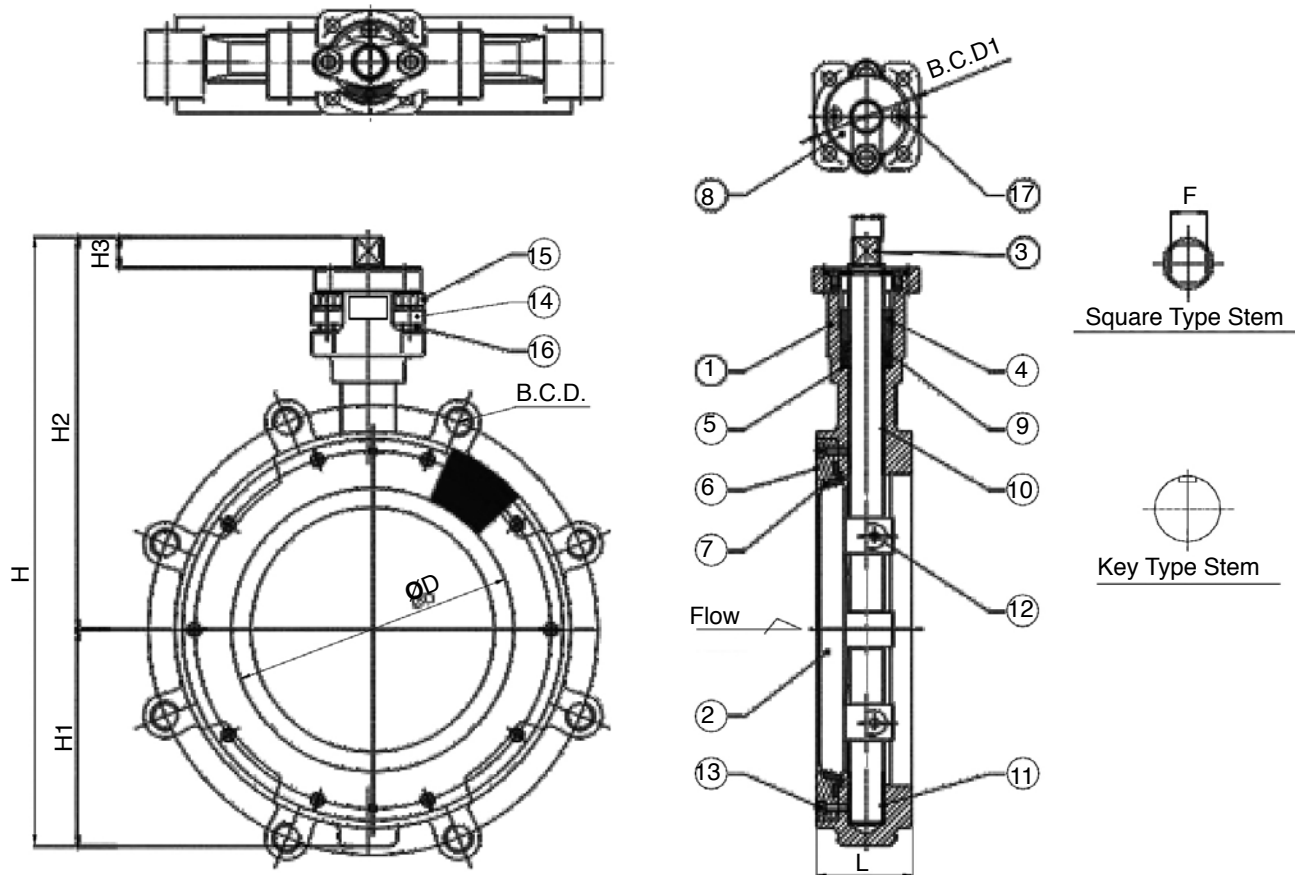
FLANGE DRILLING TABLE

Size IN	ANSI 300			J1S 16K/20K			JIS 30K			PN25			PN40		
	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h
2"	5.00	8	0.75	4.72	8	0.75	5.12	8	0.75	4.92	4	0.71	4.92	4	0.71
2-1/2"	5.87	8	0.87	5.51	8	0.75	6.3	8	0.91	5.71	8	0.71	5.71	8	0.71
3"	6.63	8	0.87	6.30	8	0.91	6.69	8	0.91	6.30	8	0.71	6.30	8	0.71
4"	7.87	8	0.87	7.28	8	0.98	7.68	8	0.98	7.48	8	0.87	7.48	8	0.87
5"	9.25	8	0.87	8.86	8	0.98	9.06	8	0.98	8.66	8	1.02	8.66	8	1.02
6"	10.62	12	0.87	10.24	12	0.98	10.83	12	1.06	9.84	8	1.02	9.84	8	1.02
8"	13.00	12	1.00	12.01	12	0.98	12.60	12	1.06	12.20	12	1.02	12.60	12	1.18
10"	15.25	16	1.13	14.96	12	1.06	15.35	12	1.30	14.57	12	1.18	15.16	12	1.30
12"	17.75	16	1.25	16.93	16	1.06	17.72	16	1.30	16.93	16	1.18	17.72	16	1.30

Note: 'n' Number of bolt holes
'h' Bolt hole diameter

Model 82 & 83 Series Butterfly Valves

DIMENSIONS: Model 83 Series Lug Type, Class 150



Size	H	H1	H2	H3	Ød	F	ØD	B.C.D1	L
2"	8.63	2.36	6.27	0.60	0.51	0.43	1.65	2.76	1.73
2-1/2"	9.54	2.76	6.78	0.60	0.63	0.55	2.40	2.76	1.81
3"	9.85	3.01	6.84	0.60	0.63	0.55	2.91	2.76	1.89
4"	11.07	3.54	7.53	0.70	0.63	0.55	3.70	2.76	2.13
5"	12.55	4.09	8.45	0.70	0.71	0.55	4.65	2.76	2.24
6"	13.62	4.53	9.09	0.75	0.87	0.67	5.51	2.76	2.28
8"	15.91	5.65	10.26	0.81	0.87	0.67	7.40	2.76	2.52
10"	18.44	6.69	11.75	0.81	1.10	0.87	9.39	4.02	2.81
12"	20.63	7.76	12.88	0.95	1.10	0.87	11.02	4.02	1.81
14"	26.87	11.00	15.87	2.76	1.50			5.51	3.62
16"	31.66	12.54	19.12	3.48	1.77			6.50	4.02
18"	33.73	13.31	20.41	3.48	2.17			6.50	4.49
20"	34.59	14.17	20.41	3.48	2.17			6.50	5.00
24"	39.76	16.70	23.05	3.68	2.56			6.50	6.06

Model 82 & 83 Series Butterfly Valves

MATERIAL SELECTION: 83 Series Lug Type Class 150

No	Description	#300 CS-STHW		#300 SS-STHW		Qty
		Soft Seat	Metal Seat	Soft Seat	Metal Seat	
1	Body	A216 WCB		A351 CF8M		1
2	Disc	A 351 CF8M				1
3	Stem	A 564 Gr. 630				1
4	Gland Flange	A216 WCB		A351 CF8M		1
5	Packing Retainer	A276 Tp 316				1
6	Retainer Ring	A351 CF8M				1
7	Seat	PTFE / RTFE	A240 Tp 316	PTFE / RPTFE	A240 Tp 316	1
			A240 Tp 304		A240 Tp 304	
8	Top Retainer	A283D-A36		A276 Tp 316		1
9	Grand Packing	Graphite				3
10	Upper Bearing	R.TFE + 316SS				1
11	Lower Bearing	RTFE + 316SS				1
12	Disc Pin	A276 Tp 316				2
13	Hex Socket Bolt	A283D-A36		A276 316SS		4 - 14
14	Spring Washer	A283D-A36		A276 316SS		2
15	Hex Nut	A283D-A36		A276 316SS		2
16	Stud Bolt	A283D-A36		A276 316SS		2
17	Flat Head Screw	A283D-A36		A276 316SS		2

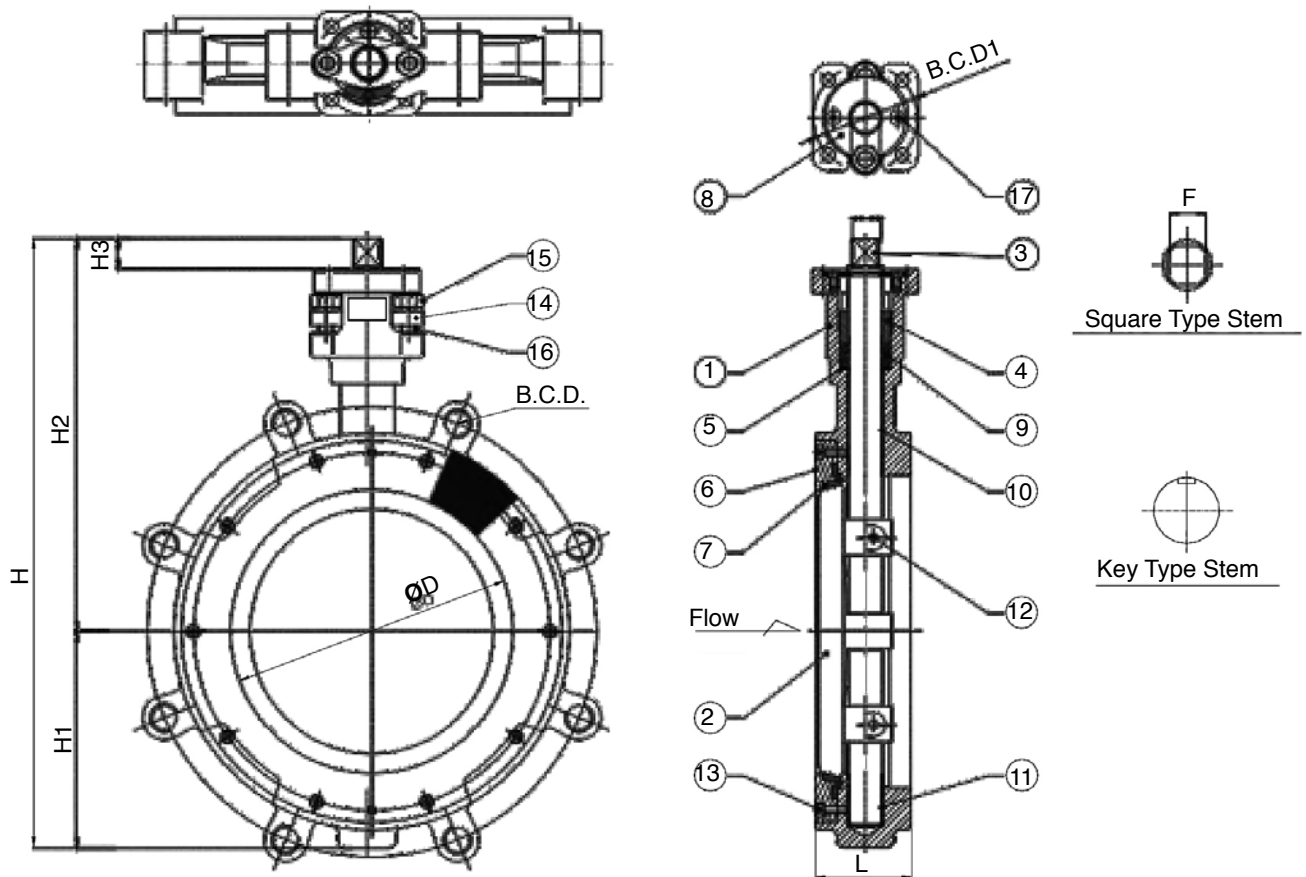
FLANGE DRILLING TABLE

Size	PN10			PN16			ANSI 150 LBS			JIS 10K			JIS 16K		
In	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h
2"	4.92	4	0.71	4.92	4	0.71	4.75	4	0.75	4.72	4	0.75	4.72	8	0.75
2-1/2"	5.71	4	0.71	5.71	4	0.71	5.50	4	0.75	5.51	4	0.75	5.51	8	0.75
3"	6.30	8	0.71	6.30	8	0.71	6.00	4	0.75	5.91	8	0.75	6.30	8	0.91
4"	7.09	8	0.71	7.09	8	0.71	7.50	8	0.75	6.89	8	0.75	7.28	8	0.91
5"	8.27	8	0.71	8.27	8	0.71	8.50	8	0.87	8.27	8	0.91	8.86	8	0.98
6"	9.45	8	0.87	9.45	8	0.87	9.50	8	0.87	9.45	8	0.91	10.24	12	0.98
8"	11.61	8	0.87	11.61	12	0.87	11.75	8	0.87	11.42	12	0.91	12.01	12	0.98
10"	13.78	12	0.87	13.98	12	1.02	14.25	12	1.00	13.98	12	0.98	14.96	12	1.06
12"	15.75	12	0.87	16.14	12	1.02	17.00	12	1.00	15.75	16	0.98	16.93	16	1.06
14"	18.11	16	0.87	18.50	16	1.02	18.75	12	1.13	17.52	16	0.98	18.90	16	1.30
16"	20.28	16	1.02	20.67	16	1.18	21.25	16	1.13	20.08	16	1.06	21.26	16	1.30
18"	22.24	20	1.02	23.03	20	1.18	22.75	16	1.25	22.24	20	1.06	23.82	20	1.30
20"	24.41	20	1.02	25.59	20	1.30	25.00	20	1.25	24.41	20	1.06	25.98	20	1.30
24"	28.54	20	1.18	30.31	20	1.42	29.50	20	1.37	28.74	24	1.30	30.31	24	1.54

Note: 'n' Number of bolt holes
'h' Bolt hole diameter

Model 82 & 83 Series Butterfly Valves

DIMENSIONS: Model 83 Series Lug Type, Class 300



Size	H	H1	H2	H3	Ød	F	ØD	B.C.D1	L
2"	8.63	2.36	6.27	0.60	0.51	0.43	1.65	2.76	1.73
2-1/2"	9.54	2.76	6.78	0.60	0.63	0.55	2.40	2.76	1.81
3"	9.85	3.01	6.84	0.60	0.63	0.55	2.91	2.76	1.89
4"	11.07	3.54	7.53	0.70	0.63	0.55	3.70	2.76	2.13
5"	12.55	4.09	8.45	0.70	0.71	0.55	4.65	2.76	2.24
6"	13.62	4.53	9.09	0.75	0.87	0.67	5.51	2.76	2.28
8"	15.91	5.65	10.26	0.81	0.87	0.67	7.40	2.76	2.87
10"	18.44	6.69	11.75	0.81	1.10	0.87	9.39	4.02	3.82
12"	20.71	7.83	12.88	0.95	1.10	0.87	11.02	4.02	3.62

Model 82 & 83 Series Butterfly Valves

MATERIAL SELECTION: 83 Series Lug Type Class 300

No	Description	#300 CS-STHL		#300 SS-STHL		Qty
		Soft Seat	Metal Seat	Soft Seat	Metal Seat	
1	Body	A216 WCB		A351 CF8M		1
2	Disc	A 351 CF8M				1
3	Stem	A 564 Gr. 630				1
4	Gland Flange	A216 WCB		A351 CF8M		1
5	Packing Retainer	A276 Tp 316				1
6	Retainer Ring	A351 CF8M				1
7	Seat	PTFE / RTFE	A240 Tp 316	PTFE / RPTFE	A240 Tp 316	1
			A240 Tp 304		A240 Tp 304	
8	Top Retainer	A283D-A36		A276 Tp 316		1
9	Grand Packing	Graphite				3
10	Upper Bearing	R.TFE + 316SS				1
11	Lower Bearing	RTFE + 316SS				1
12	Disc Pin	A276 Tp 316				2
13	Hex Socket Bolt	A283D-A36		A276 316SS		4 - 14
14	Spring Washer	A283D-A36		A276 316SS		2
15	Hex Nut	A283D-A36		A276 316SS		2
16	Stud Bolt	A283D-A36		A276 316SS		2
17	Flat Head Screw	A283D-A36		A276 316SS		2

FLANGE DRILLING TABLE

Size	ANSI 300			J1S 16K/20K			JIS 30K			PN25			PN40		
	IN	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n	h	B.C.D.	n
2"	5.00	8	0.75	4.72	8	0.75	5.12	8	0.75	4.92	4	0.71	4.92	4	0.71
2-1/2"	5.87	8	0.87	5.51	8	0.75	6.3	8	0.91	5.71	8	0.71	5.71	8	0.71
3"	6.63	8	0.87	6.30	8	0.91	6.69	8	0.91	6.30	8	0.71	6.30	8	0.71
4"	7.87	8	0.87	7.28	8	0.98	7.68	8	0.98	7.48	8	0.87	7.48	8	0.87
5"	9.25	8	0.87	8.86	8	0.98	9.06	8	0.98	8.66	8	1.02	8.66	8	1.02
6"	10.62	12	0.87	10.24	12	0.98	10.83	12	1.06	9.84	8	1.02	9.84	8	1.02
8"	13.00	12	1.00	12.01	12	0.98	12.60	12	1.06	12.20	12	1.02	12.60	12	1.18
10"	15.25	16	1.13	14.96	12	1.06	15.35	12	1.30	14.57	12	1.18	15.16	12	1.30
12"	17.75	16	1.25	16.93	16	1.06	17.72	16	1.30	16.93	16	1.18	17.72	16	1.30

Note: 'n' Number of bolt holes
'h' Bolt hole diameter

TORQUE DATA: HIGH PERFORMANCE BUTTERFLY VALVES

Lbs In	Class 150				Class 300			
	Actuated Torque: lbs/inches				Actuated Torque: lbs/inches			
Size	Teflon Seat		Metal Seat		Teflon Seat		Metal Seat	
In	150 psi	285 psi	150 psi	285 psi	150 psi	500 psi	150 psi	500 psi
2"	200	270	564	677	220	520	990	1550
2-1/2"	200	270	564	677	220	520	900	1550
3"	200	270	564	677	220	520	900	1550
4"	225	470	903	1128	250	670	1200	1850
5"	540	680	1467	2144	600	1120	2800	5700
6"	540	680	1467	2144	600	1120	2800	5700
8"	910	1620	2031	2595	1000	2440	4100	8100
10"	1620	2530	3385	4288	1800	4640	6800	14500
12"	2530	3600	4513	5190	2790	7480	9100	23600
14"	3720	5970			4130	10200		
16"	5530	9180			6140	17070		
18"	6840	11900			7600	20400		
20"	10020	16970			11140	31530		
24"	18330	32290			20370	58820		

Note: All torques shown on the chart were derived from test data using water at 41°F. For torques using dry gases, multiply these numbers by 1.6. Above table has additional 30% safety factor to average net torque. For severe services, or unusual fluids or slurries, consult J Flow Controls. For 600 & 700 psig torque, please consult J Flow Controls.

The torques listed are applicable to sea water, lubricating type of hydro carbons and most media at temperatures of 32°F to 180°F. The operating seed of the actuator must be considered in order to avoid water hammer when the valve is closed in conjunction with liquid.

The factors affect the torque required to operate butterfly valves:

- Valve diameter
- Shaft diameter
- Bearing friction coefficient
- Type of seat material
- Shut off pressure
- Velocity
- Shape of disc
- System head characteristics
- Piping arrangement

Actuator torques can be calculated using the following formulas:

- $T_a = T_b + T_s + T_h = 1.2T_b \pm T_d$
- $T_s = C_s D^2$
- $T_b = 4.17 D^2 d f p$
- $T_d = C_t D^3 P$
- $T_h = 3.06 D^4$
- $V = C_f \sqrt{p} = \frac{Q}{0.785 D^2}$
- T_a : The required actuator torque (lb-ft)
- T_s = Seat or unseating torque (lb-ft)
- T_d = Dynamic torque (lb-ft)
- T_h = Hydrostatic torque (lb-ft)
- Q = Flow (cubic per second)
- V = Velocity (feet per second)
- D = Diameter of valve (feet)
- d = diameter of shaft (inch)
- P = Pressure drop across valve (psi)
- C_s = Coefficient of seating or unseating torque
- C_t = Coefficient of dynamic torque
- C_f = Coefficient of flow
- f = Bearing friction coefficient

Model 82 & 83 Series Butterfly Valves

CV FLOW COEFFICIENT CHARTS:

The size of butterfly valves used for control purpose should be calculated on the basis of the operating characteristics. In order to achieve optimum control, the flow coefficient (Cv) below need to be considered.

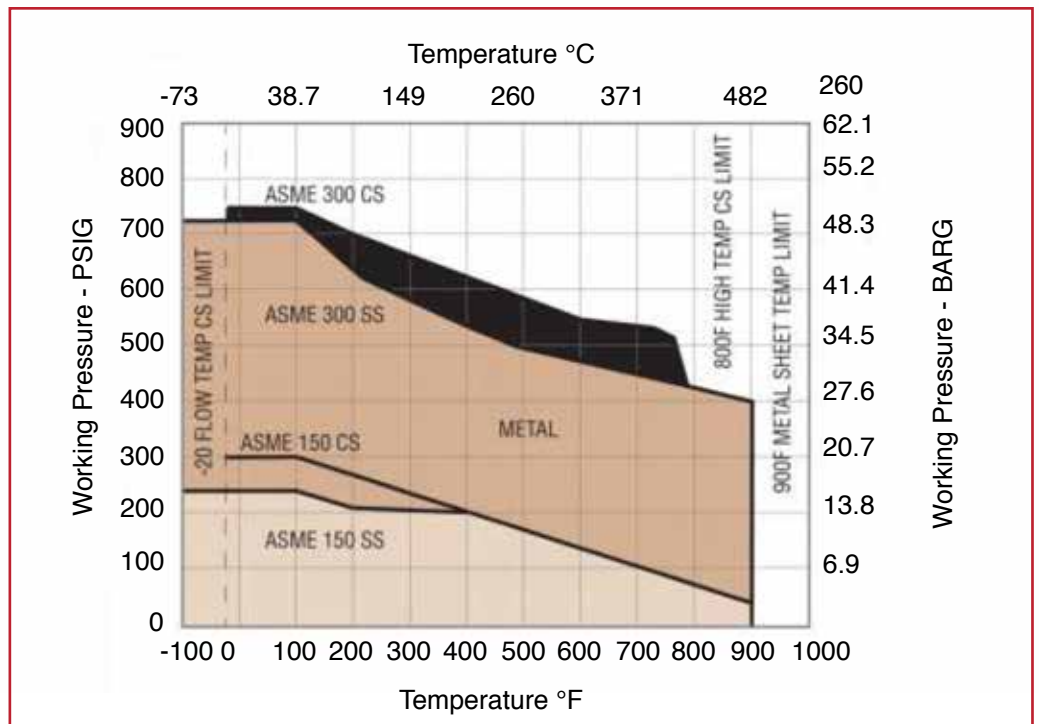
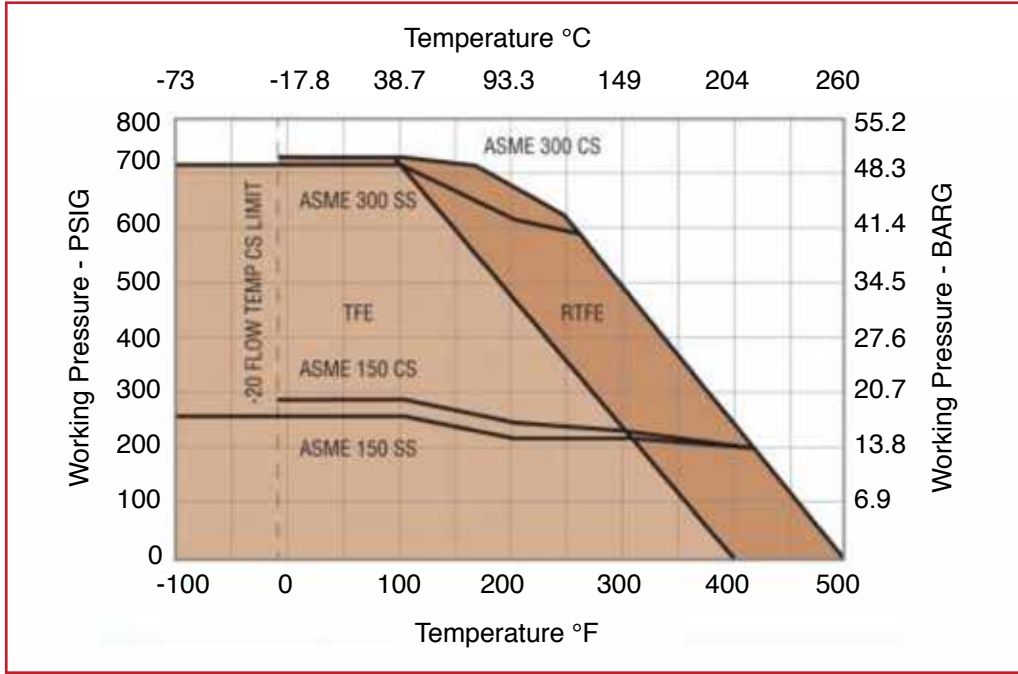
Flow Coefficient for J Flow Controls Butterfly Valves

Class 150 In	Disc Opening							
	20°	30°	40°	50°	60°	70°	80°	90°
2"	6	14	25	39	56	76	99	102
2-1/2"	9	21	37	56	80	110	142	146
3"	14	32	57	87	125	171	221	228
4"	27	63	114	171	248	338	437	451
5"	43	100	180	271	392	535	692	714
6"	66	154	278	419	607	827	1070	1103
8"	124	289	520	784	1135	1584	2002	2064
10"	211	492	886	1336	1934	2638	3411	3517
12"	290	677	1219	1838	2660	3628	4690	4837
14"	392	914	1646	2481	3592	4898	6530	6857
16"	531	1230	2229	3361	4865	6634	8845	9287
18"	684	1596	3873	4332	6270	8550	11270	11400
20"	828	1932	3478	5244	7590	10350	13800	14420
24"	1260	2940	5292	7890	11550	15750	21000	22050

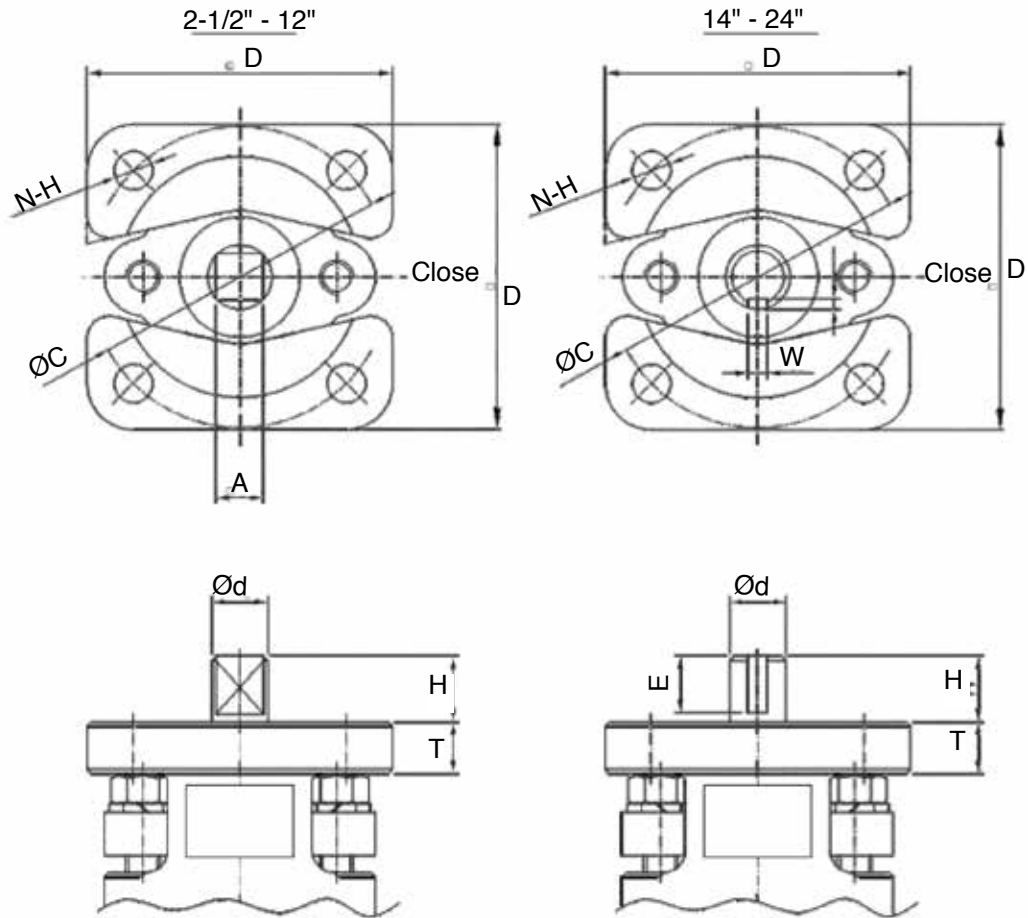
Class 300 In	Disc Opening							
	20°	30°	40°	50°	60°	70°	80°	90°
2"	6	13	24	36	52	71	95	100
2-1/2"	8	19	34	52	75	102	136	143
3"	13	30	53	81	117	159	212	223
4"	25	58	104	157	228	310	414	435
5"	40	92	165	248	361	491	655	688
6"	60	139	250	377	546	744	992	1041
8"	109	255	459	692	1001	1365	1820	1911
10"	183	426	767	1156	1673	2282	3042	3194
12"	253	590	1063	1602	2319	3163	4217	4428
14"	326	760	1368	2063	2986	4072	5430	5702
16"	435	1015	1827	2755	3988	5438	7850	8243
18"	555	1295	2331	3515	5088	6938	9250	9712
20"	630	1470	2646	3990	5775	7875	10150	10658
24"	966	2254	4057	6118	8855	12075	16100	16205

Cv is in imperial units, the water flow in U.S. gallons per minute which passes through the valve giving a pressure drop of 1 psi at a temperature of 68°F

TECHNICAL DATA
Pressure vs Temperature

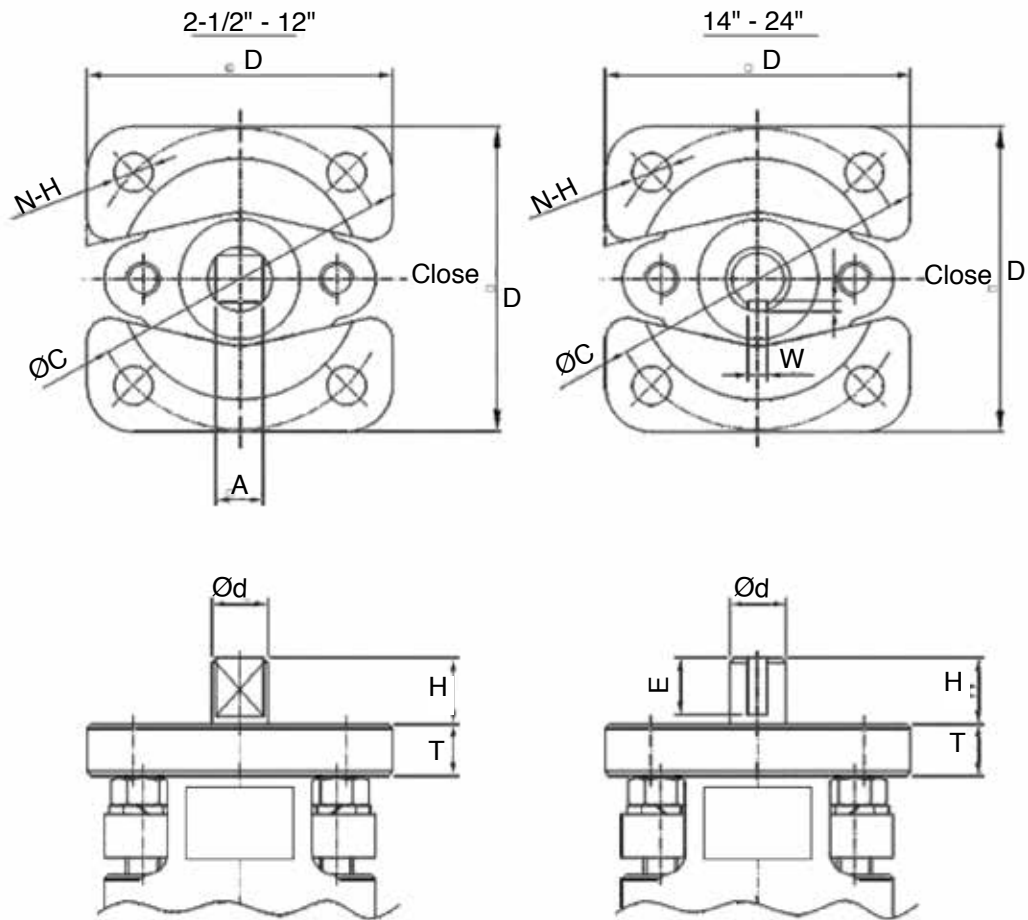


BUTTERFLY VALVE TOP FLANGE DIMENSION - CLASS 150



	Ød	T	ØC	N	Øh	A	DD	B	W	H	E	ISO
2"	0.51	0.47	2.76	0.55	0.35	0.43	2.80	-	-	0.60	-	F07
2-1/2"	0.63	0.47	2.76	0.55	0.35	0.55	2.80	-	-	0.60	-	F07
3"	0.63	0.47	2.76	0.55	0.35	0.55	2.80	-	-	0.60	-	F07
4"	0.63	0.47	2.76	0.55	0.35	0.55	2.80	-	-	0.70	-	F07
5"	0.71	0.55	2.76	0.55	0.35	0.63	2.80	-	-	0.70	-	F07
6"	0.87	0.55	2.76	0.55	0.35	0.67	2.80	-	-	0.75	-	F07
8"	0.87	0.63	2.76	0.55	0.35	0.67	2.80	-	-	0.81	-	F07
10"	1.00	0.71	4.02	0.55	0.43	0.87	3.74	-	-	0.81	-	F10
12"	1.10	0.71	4.02	0.55	0.43	0.87	3.74	-	-	0.95	-	F10
14"	1.50	0.71	5.51	0.55	0.71	-	6.30	0.20	0.47	2.76	2.36	F14
16"	1.77	0.79	6.50	0.55	0.87	-	6.30	0.20	0.47	3.48	2.76	F16
18"	2.20	0.79	6.50	0.55	0.87	-	6.30	0.20	0.47	3.48	2.76	F16
20"	2.20	0.79	6.50	0.55	0.87	-	6.30	0.20	0.47	3.48	2.76	F16
24"	2.20	0.79	6.50	0.55	0.87	-	6.30	0.20	0.47	3.48	2.76	F16

BUTTERFLY VALVE TOP FLANGE DIMENSION - CLASS 300



	Ød	T	ØC	N	Øh	A	DD	B	W	H	E	ISO
2"	0.51	0.47	2.76	0.55	0.35	0.43	2.80	-	-	0.60	-	F07
2-1/2"	0.63	0.47	2.76	0.55	0.35	0.55	2.80	-	-	0.60	-	F07
3"	0.63	0.47	2.76	0.55	0.35	0.55	2.80	-	-	0.60	-	F07
4"	0.63	0.47	2.76	0.55	0.35	0.55	2.80	-	-	0.70	-	F07
5"	0.71	0.55	2.76	0.55	0.35	0.63	2.80	-	-	0.70	-	F07
6"	0.87	0.55	2.76	0.55	0.35	0.67	2.80	-	-	0.75	-	F07
8"	0.87	0.63	4.02	0.55	0.43	0.67	3.74	-	-	0.81	-	F10
10"	1.00	0.71	4.02	0.55	0.43	0.87	3.74	-	-	0.81	-	F10
12"	1.10	0.71	4.02	0.55	0.43	0.87	3.74	-	-	0.95	-	F10

Note:

1. Standard: ISO 5211 F05 ~ F16
2. ØC; Øh tolerance: +0.1 / -0.0
3. Others tolerance: +0.3 / -0.0

Model 82 & 83 Series Butterfly Valves

HOW TO ORDER

Model		Body Material	Disc	Stem
82	High Performance Wafer Style	3 Cast Steel, WCB	K 316 Stainless Steel, CF8M	7 A564 Gr. 630 (PH 17-4)
83	High Performance Lug Style	5 Stainless Steel, CF8M		

Drilling or Pressure Rate		Operation	Seat
1	ANSI 150#	1 Bare Stem	C TFM-4215
3	ANSI 300#	3 Lever	S PTFE
4	DIN PN10	6 Gear	R RTFE
5	DIN PN16		T Metal Seat
8	DIN PN25		E EPDM Seat
9	DIN PN40		V Viton Seat
A	JIS 16K		
B	JIS 20K		
C	JIS 30K		

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jflowcontrols.com

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