

CUSTOMER FOCUSED • HIGHEST QUALITY PRODUCTS • ENGINEERED TO EXACT DETAIL

# QUALITY VALVES

**CAST STEEL VALVES  
(GATE, GLOBE, CHECK & BUTTERFLY)**

## **WEDGE GATE VALVES, PARALLELED DISC AND PRESSURE SEAL BONNETS**

Size:	1-1/2" to 64"
Class:	150 to 2500
Design:	ASME B16.34 / API 600, Through Conduit
Face to Face:	ASME B16.10
Flange Dimensions:	ASME B16.5, over 28" – MSS-SP-44 OR API 605
Pressure Test:	API 598
Pressure/Temperature:	ASME B16.34

## **GLOBE VALVES, REGULAR PATTERN, PRESSURE SEAL BONNETS AND Y PATTERN**

Size:	2" to 12"
Class:	150 to 900
Design:	ASME B16.34 / BS1873
Face to Face:	ASME B16.10
Flange Dimensions:	ASME B16.5
Pressure Test:	API 598
Pressure/Temperature:	ASME B16.34

## **SWING AND TILTING DISC CHECK VALVES, STANDARD AND PRESSURE SEAL BONNETS**

Size:	2" to 30"
Class:	150 to 1500
Design:	ASME B16.34 / BS1868
Face to Face:	ASME B16.10
Flange Dimensions:	ASME B16.5, over 28" – MSS-SP-44 OR API 605
Pressure Test:	API 598
Pressure/Temperature:	ASME B16.34

## **WAFER, DUAL DISC WAFER AND LIFT CHECK VALVES, WAFER, LUGGED AND Y PATTERN**

Size:	2" to 48"
Class:	150 to 2500
Design:	API 594 / API 6D
Face to Face:	API 594 / API 6D (Long pattern)
Flange Dimensions:	ASME B16.5, over 28" – MSS-SP-44 OR API 605
Pressure Test:	API 598
Pressure/Temperature:	ASME B16.34

## **BUTTERFLY VALVES, FLANGED AND WAFER**

Size:	4" to 72"
Class:	125 to 300
Design:	Flanged: MSS-SP-67 Wafer: MSS-SP-68 / API 609 Hard face or soft seat
Face to Face:	ASME B16.10 / MSS-SP-67 MSS-SP-68 / API 609
Flange Dimensions:	ASME B16.5, over 24" – MSS-SP-44 OR API 605
Pressure Test:	API 598
Pressure/Temperature:	ASME B16.34



# ENFLOW FIGURE NUMBER SYSTEM

<b>1</b>	<b>TYPE</b>	EBU = BUTTERFLY EGA = GATE OS&Y EGS = SLAB GATE EGL = GLOBE OS&Y ESC = SWING CHECK EPC = PISTON CHECK	ETC = TILTING DISC ELC = LIFT CHECK EWC = WAFER CHECK EWD = WAFER DUAL EWP = WAFER PISTON
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<b>2</b>	<b>SIZE</b>	02 = 2" 03 = 3" 04 = 4" 06 = 6" 08 = 8" 10 = 10" 12 = 12" 14 = 14"	16 = 16" 18 = 18" 20 = 20" 24 = 24" 26 = 26" 28 = 28" 30 = 30" 36 = 36"	42 = 42" 48 = 48" 54 = 54" 60 = 60" 66 = 66" 72 = 72"
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<b>3</b>	<b>CLASS</b>	00 = 125 01 = 150 03 = 300	06 = 600 09 = 900 15 = 1500	25 = 2500
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<b>4</b>	<b>ENDS</b>	A = RAISED FACE B = RTJ F = WELD END	G = WELD X RF H = WELD X RTJ L = LUGGED WAFER RF	Q = WAFER RF
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<b>5</b>	<b>BODY</b>	01 = WCB/A105 02 = LCC/LF2 03 = CF8M/316SS	04 = DUPLEX 22CR 05 = SUPER DUPLEX 25CR
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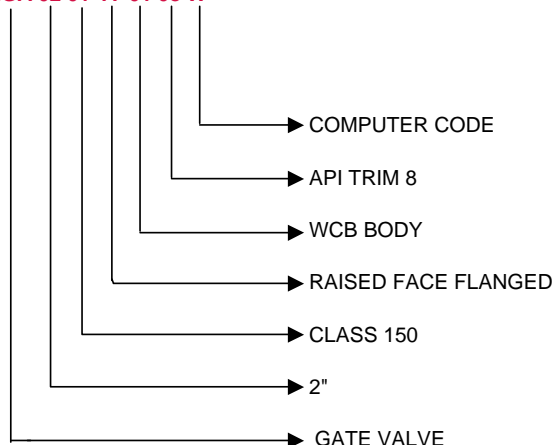
<b>6</b>	<b>TRIM</b>	<b>ENFLOW TRIM NUMBER</b>	<b>WEDGE FACE</b>	<b>SEAT FACE</b>	<b>STEM</b>	<b>API#</b>
		01 = F6 02 = 304 SS 05 = STL/F6 08 = F6/STL 10 = 316SS 12 = 316/STL	F6 (410) 304 STELITE F6 (410) 316 316	F6 (410) 304 STELITE STELITE 316 STL	F6 (410) 304 F6 (410) F6 (410) 316 316	1 2 5 8 10 12

**NOTE:** 1. F6 = 410SS, STL = STELITE, NICU = MONEL  
 2. BASE MATERIAL IS EITHER SAME AS BODY OR SOLID TRIM, AT ENFLOW'S DISCRETION  
 3. OTHER TRIMS, INCLUDING SOFT SEATING, ARE ALSO AVAILABLE

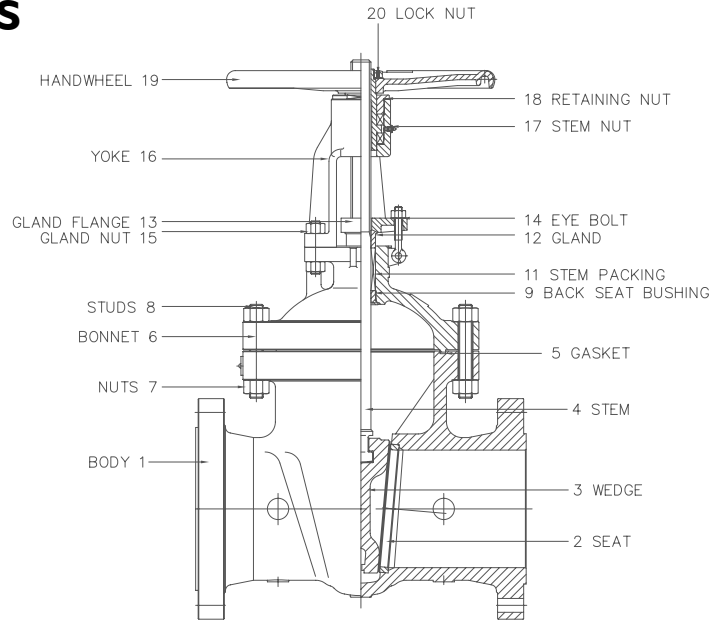
<b>7</b>	<b>ONLY USED IF REQUIRED SPECIAL FEATURES**</b>	G = GEAR F = FULL PORT N = NACE PS = PRESSURE SEAL WB = WELDED BONNET BP = BY PASS MO = MOTOR OPERATOR PO = PNEUMATIC OPERATOR HO = HYDRAULIC OPERATOR BS = BARE STEM	CR = CRYO SERVICE EB = EXTENSION BONNET ND = NDE - SPECIFY HB = HORIZONTAL BALL HP = HORIZONTAL PISTON VB = VERTICAL BALL VP = VERTICAL PISTON SO = SOFT SEALING FACE
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\* ON REQUEST ONLY  
 • OTHER MATERIALS AVAILABLE UPON REQUEST

E.g.: EGA 02 01 A 01 08 W



# WEDGE GATE VALVES

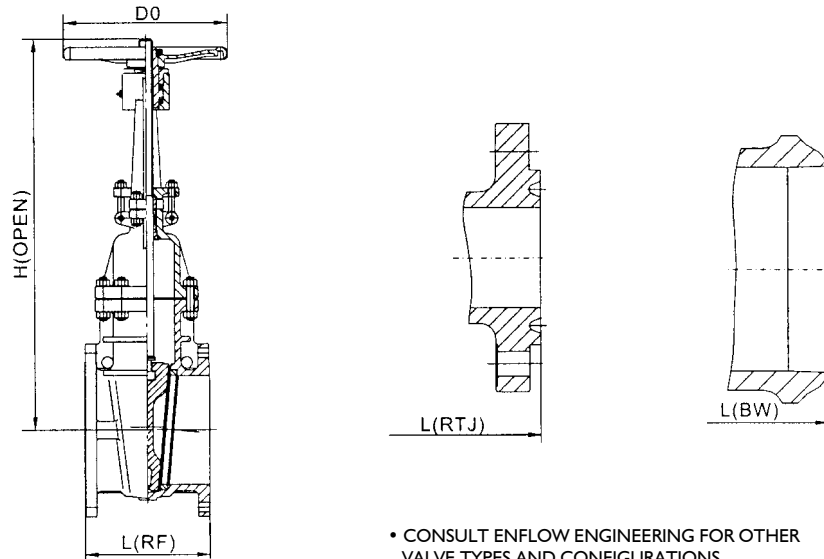


## AVAILABLE MATERIALS OF CONSTRUCTION

ITEM	PART NAME	STANDARD	LOW TEMPERATURE	STAINLESS STEEL
1	BODY	A216 WCB	A352 LCC	A182 CF8M
2	SEAT	A105	A350 LF2	A182 F316
3	WEDGE	A216 WCB	A352 LCC	A182 CF8M
4	STEM	A182 F6	A182 F304	A182 F316
5	GASKET	304 SS / 316 SS SPIRAL WOUND / SOLID 304 SS / 316 SS METAL RING		
6	BONNET	A216 WCB	A352 LCC	A182 CF8M
7	NUTS	A194 2H / 2HM	A194 7M	A194 GR 8
8	STUDS	A193 B7 / B7M	A320 L7 / L7M	A320 B8 / A193 B8M
9	BACKSEAT BUSHING	A182 F6	A182 F6	A182 F316
10*	LANTERN RING	A182 F6	A182 F6	A182 F316
11	STEM PACKING	GRAPHITE		
12	GLAND	A182 F6	A182 F6	A182 F316
13	GLAND FLANGE	A216 WCB	A352 LCC	A351 CF8
14	EYEBOLT	A193 B7 / B7M	A320 L7 / L7M	A182 B8
15	GLAND NUT	A194 B7 / B7M	A194 7M	A182 GR 8
16	YOKE	A216 WCB	A352 LCC	A182 CF8M
17	STEM NUT	CU - ALLOY		
18	RETAINING NUT	CARBON STEEL / STAINLESS STEEL		
19	HANDWHEEL	STEEL / DUCTILE IRON		
20	LOCK NUT	CARBON STEEL / STAINLESS STEEL		
	SEALING FACE OVERLAY	AVAILABLE API TRIMS		

\* ON REQUEST ONLY  
 • OTHER MATERIALS AVAILABLE UPON REQUEST

# WEDGE GATE VALVES



• CONSULT ENFLOW ENGINEERING FOR OTHER VALVE TYPES AND CONFIGURATIONS

## DIMENSIONS AND WEIGHTS (mm and inches)

CLASS 150																		
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	800
NPS	1 - 1/2	2	2 - 1/2	3	4	5	6	8	10	12	14	16	18	20	24	26	28	32
L(RF)	165	178	191	203	229	254	267	292	330	356	381	406	432	457	508	559	610	660
	6.5	7	7.5	8	9	10	10.5	11.5	13	14	15	16	17	18	20			
L(RTJ)	178	191	203	216	241	267	279	305	343	368	394	419	445	470	521	--	--	--
	7	7.5	8	8.5	9.5	10.5	11	12	13.5	14.5	15.5	16.5	17.5	18.5	20.5	--	--	--
L(BW)	165	216	241	283	305	381	403	419	457	502	572	610	660	711	813	902	991	965
	6.5	8.5	9.5	11.5	12	15	15.9	16.5	18	19.8	22.5	24	26	28	32			
H MANUAL	342	397	438	504	591	682	756	975	1170	1375	1566	1770	1924	2144	2522	2728	2941	3320
	15.4	15.8	19.3	20	23	29.13	30.4	37.63	45.8	54.13	61.8	69.5	77.9	87.4	102.4			
H GEAR	--	--	--	--	--	--	--	1015	1210	1415	1610	1825	1980	2210	2610	2800	3022	3400
Do	180	200	200	250	250	300	300	350	400	450	500	600	600	680	760	800	915	915
	8	8	8	10	12	12	14	14	16	18	20	24	24	27	28.4			
RF (Kg)	15	17	27	31	47	58	71	122	185	225	355	495	688	900	1135	1700	1950	2900
BW (Kg)	14	15	24	28	42	54	69	113	170	214	340	475	635	770	965	1425	1820	2600
CLASS 300																		
DN	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	650	700	800
NPS	1 - 1/2	2	2 - 1/2	3	4	5	6	8	10	12	14	16	18	20	24	26	28	32
L(RF)	191	216	241	283	305	381	403	419	457	502	762	838	914	991	1143	1245	1346	1524
	7.5	8.5	9.5	11.3	12	15	15.9	16.5	18	19.8	30	33	36	39	45			
L(RTJ)	203	232	257	298	321	397	419	435	473	518	778	854	930	1010	1165	1270	1372	1552
	8	9.13	10.13	11.8	12.63	15.63	16.5	17.13	18.63	20.4	30.63	33.63	36.61	39.8	45.9			
L(BW)	191	216	241	283	305	381	403	419	457	502	762	838	914	991	1143	1245	1346	1524
	7.5	8.5	9.5	11.3	12	15	15.9	16.5	18	19.8	30	33	36	39	45			
H MANUAL	300	430	510	540	650	760	840	1040	1280	1440	1590	1755	1997	2192	2587	2890	3280	--
	15.4	15.8	19.3	20	23	29.13	30.4	37.63	45.8	54.13	61.8	69.5	77.9	87.4	10.4			
H GEAR	--	--	--	--	--	--	--	1080	1320	1484	1646	1810	2150	2320	2730	2940	3350	3630
Do	160	200	200	250	250	300	350	400	450	500	600	600	680	760	915	915	915	--
	8	8	8	12	12	14	14	16	18	20	24	24	27	28.4	31.5			
RF (Kg)	22	26	39	48	73	110	144	204	320	465	715	970	1190	1655	2320	2900	3510	5250
BW (Kg)	16	20	35	40	59	95	124	176	278	405	643	876	1076	1515	2114	2640	3210	4864

# WEDGE GATE VALVES

## DIMENSIONS AND WEIGHTS (mm and inches)

CLASS 600																	
DN NPS	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	650 26	700 28	800 32
L(RF)	241 9.5	292 11.5	330 13	356 14	432 17	559 22	660 26	787 31	838 33	889 35	991 39	1092 43	1194 47	1397	1448	1549	1778
L(RTJ)	241 9.5	295 11.6	333 13.1	359 14.1	435 17.1	562 22.1	663 26.1	790 31.1	841 33.1	892 35.1	994 39.1	1095 43.1	1200 47.3				
L(BW)	241 9.5	292 11.5	330 13	356 14	432 17	559 22	660 26	787 31	838 33	889 35	991 39	1092 43	1194 47	1397	1448	1549	1778
H MANUAL		438	512	549	668	890	1109	1268	1458	1640	1825	1992	--	--	--	--	--
H GEAR		--	--	--	--	--	1159	1318	1508	1735	1895	2155	2304	2700	3020	3120	3560
Do	200 8	250 10	250 10	250 12	350 12	450 18	500 20	600 24	680 27	760 30	800 34	915 38	--	--	--	--	--
RF (Kg)	32	47	55	75	123	260	400	700	854	1112	1317	1862	2200	4560	5120	7450	9150
BW (Kg)	28	39	47	66	102	208	373	630	766	1059	1243	1768	2090	4228	4682	6850	8450

CLASS 900																	
DN NPS	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	650 26	700 28	800 32
L(RF)	305 12	368 14.5	419 16.5	381 15	457 18	610 24	737 29	838 33	965 38	1029 40.5	1130 44.5	1219	1321	1579			
L(RTJ)	305 12	371 14.6	422 16.6	384 15.1	460 18.1	613 24.1	740 29.1	841 33.1	968 38.1	1038 40.9	1140 44.9	1232	1334	1568			
L(BW)	305 12	368 14.5	419 16.5	381 15	457 18	610 24	737 29	838 33	965 38	1029 40.5	1130 44.5	1219	1321	1549			
H MANUAL	490 19.3	508 24.5	580 27.8	606 27.8	796 32.5	957 42	1172 52	1300 60.6	1655 72.5	--	--	--	--	--	--	--	--
H GEAR		--	--	--	--	1060	1202	1334	1960	2090	2390	2580	2780	3130			
Do	250 9.8	300 12	300 14	350 14	450 16	500 20	600 24	600 30	680 34	--	--	--	--	--	--	--	--
RF (Kg)	34	55	75	95	135	280	495	725	1341	1900	2550	3275	3900	5985			
BW (Kg)	30	43	59	79	111	258	421	684	1217	1750	2364	3009	3574	5325			

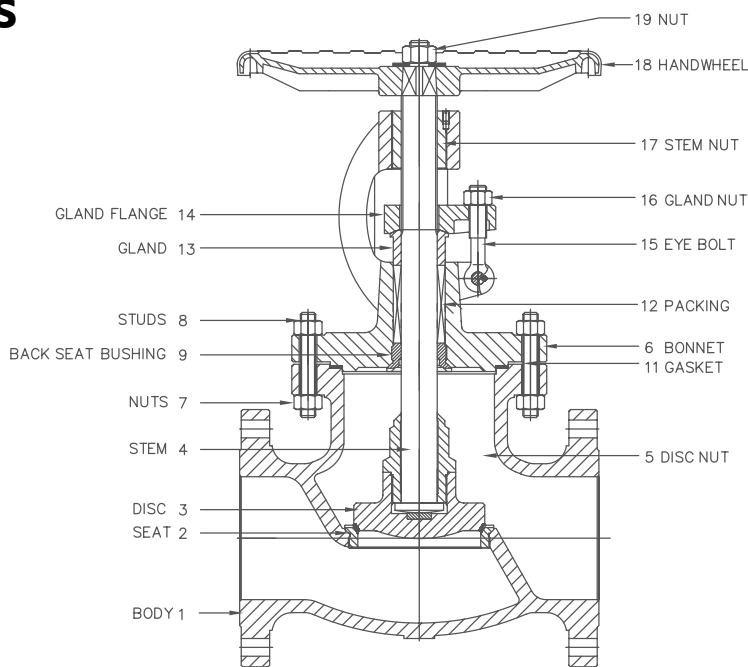
CLASS 1500																	
DN NPS	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	650 26	700 28	800 32
L(RF)	305 12	368 14.5	419 16.5	470 18.5	546 21.5	705 27.8	832 32.8	991 39	1130	1257	1384	1537	1664	1943			
L(RTJ)	305 12	371 14.6	422 16.6	473 18.6	549 21.6	711 28	841 33.1	1000 39.4	1146	1276	1407	1559	1686	1972			
L(BW)	305 12	368 14.5	419 16.5	470 18.5	546 21.5	705 27.8	832 32.8	991 39	1130	1257	1384	1537	1664	1943			
H MANUAL	490 19.3	475 27.4	526 27.8	735 30.3	838 34.8	1042 43	1385 55.1	1645 63	1750	--	--	--	--	--	--	--	--
H GEAR		--	--	--	900	1221	1555	1800	2010	2159	2330	2540	2862	3135			
Do	250 9.8	300 16	330 16	400 16	450 20	600 24	700 30	800 34	915	--	--	--	--	--	--	--	--
RF (Kg)	34	95	128	181	275	627	1050	2200	3300	4200	6300	7350	9800	17800			
BW (Kg)	30	80	110	145	220	560	922	1950	2850	3550	5500	6400	8500	15600			

L - FACE TO FACE DIMENSIONS OF THE RF FLANGED END  
 L2 - FACE TO FACE DIMENSIONS OF THE TRJ FLANGED END

L1 - FACE TO FACE DIMENSIONS OF THE BW FLANGED END  
 H - THE DIMENSIONS WHEN THE VALVE IS CLOSED

• OTHER CLASSES AND DIMENSIONS AVAILABLE UPON REQUEST

# GLOBE VALVES



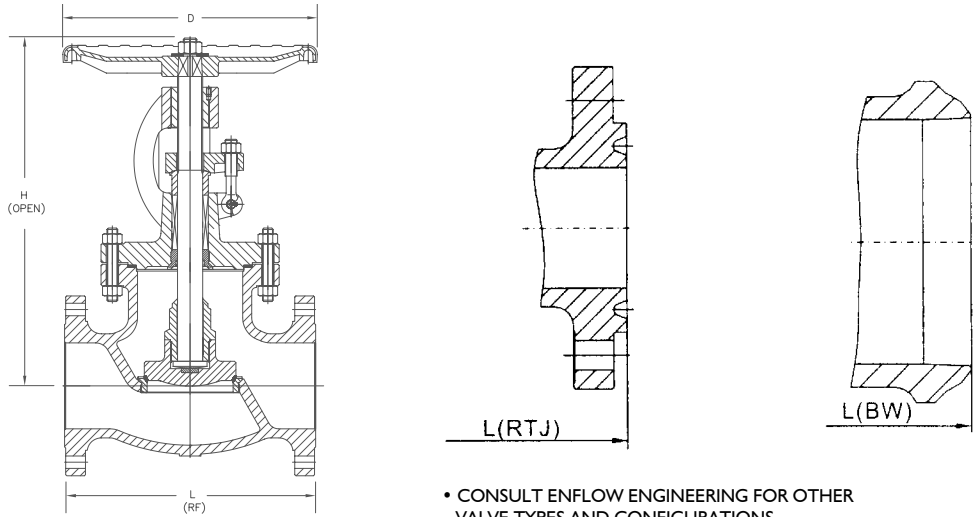
## AVAILABLE MATERIALS OF CONSTRUCTION

ITEM	PART NAME	STANDARD	LOW TEMPERATURE	STAINLESS STEEL
1	BODY	A216 WCB	A352 LCC	A182 CF8M
2	SEAT	A105	A350 LF2	A182 F316
3	DISC	A105	A350 LF2	A182 F316
4	STEM	A182 F6	A182 F304	A182 F316
5	DISC NUT	A182 F6	A182 F6	A182 F316
6	BONNET	A216 WCB	A352 LCC	A182 CF8M
7	NUTS	A194 2H / 2HM	A194 7M	A194 GR 8
8	STUDS	A193 B7 / B7M	A320 L7 / L7M	A193 B8M
9	BACKSEAT BUSHING	A182 F6	A182 F6	A182 F316
10*	LANTERN RING	A182 F6	A182 F6	A182 F316
11	GASKET	304 SS / 316 SS SPIRAL WOUND / SOLID 304 SS / 316 SS METAL RING		
12	STEM PACKING	GRAPHITE		
13	GLAND	A182 F6	A182 F6	A182 F316
14	GLAND FLANGE	A216 WCB	A352 LCC	A351 CF8
15	EYEBOLT	A193 B7 / B7M	A32P L7 / L7M	A182 B8
16	GLAND NUT	A194 B7 / B7M	A194 7M	A182 GR 8
17	STEM NUT	CU - ALLOY		
18	HANDWHEEL	CARBON STEEL / STAINLESS STEEL		
19	RETAINING NUT	CARBON STEEL / STAINLESS STEEL		
	SEALING FACE OVERLAY	AVAILABLE API TRIMS		

\* ON REQUEST ONLY

• OTHER MATERIALS AVAILABLE UPON REQUEST

# GLOBE VALVES



• CONSULT ENFLOW ENGINEERING FOR OTHER VALVE TYPES AND CONFIGURATIONS

## DIMENSIONS AND WEIGHTS (mm and inches)

CLASS 150												
DN NPS	15 1/2	25 1	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
L - L <sub>1</sub> (RF = BW)	108 4.3	127 5	165 6.5	203 8	216 8.5	241 9.5	292 11.5	356 14	406 16	495 19.5	622 24.5	699 27.5
L2 (RTJ)	119 4.7	140 5.5	178 7	216 8.5	229 9	254 10	305 12	369 14.5	419 16.5	508 20	635 25	711 28
H	320 12.6	335 13.2	345 13.5	380 15	435 17.1	465 18.3	430 20.9	580 22.9	650 25.6	760 30	860 33.9	1000 39.4
Do	150 6	200 8	200 8	200 8	250 10	250 10	300 12	300 12	350 14	400 16	500 20	600 24
RF (Kg)	14	15	16	21	30	41	64	90	113	190	238	410
BW (Kg)	12	13	14	19	27	38	54	75	93	170	215	370

CLASS 300												
DN NPS	15 1/2	25 1	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
L - L <sub>1</sub> (RF = BW)	152 6	203 8	229 9	267 10.5	292 11.5	318 12.5	356 14	400 15.8	445 17.5	559 22	622 24.5	699 27.5
L2 (RTJ)	163 6.4	216 8.5	241 9.5	283 11.1	308 12.1	333 13.1	371 14.6	416 16.4	460 18.1	575 22.6	638 25.1	711 28
H	370 14.6	385 15.2	405 16	425 16.8	465 18.3	530 20.6	610 24	695 27.7	790 31.1	870 34.2	1040 41	1000 39.4
Do	200 8	200 8	200 8	200 8	250 10	250 10	300 12	300 12	400 16	500 20	600 24	700 27.5
RF (Kg)	20	23	26	37	50	61	115	130	176	333	340	410
BW (Kg)	18	20	20	31	43	52	100	110	150	320	280	370

CLASS 600							
DN NPS	15 1/2	25 1	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4
L - L <sub>1</sub> (RF = BW)	165 6.5	216 8.5	241 9.5	292 11.5	330 13	356 14	432 17
L2 (RTJ)	163.4 6.4	216 8.5	241 9.5	295 11.6	333 13.1	359 14.1	435 17.1
H	385 15.2	398 15.7	415 16.3	475 18.8	515 20.3	585 23	675 26.5
Do	200 8	200 8	200 8	250 10	250 10	300 12	350 14
RF (Kg)	22	25	28	39	56	68	121
BW (Kg)	20	22	24	35	44	59	97

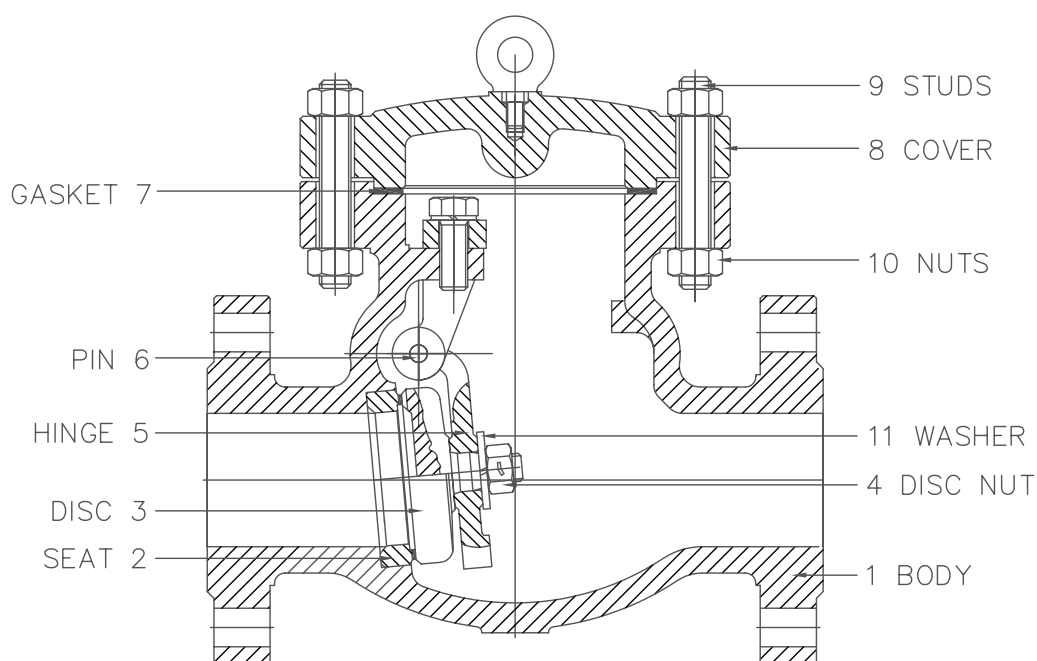
CLASS 900							
DN NPS	20 3/4	25 1	40 1 - 1/2	50 2	65 2 - 1/2	80 3	100 4
L - L <sub>1</sub> (RF = BW)	229 9	254 10	305 12	368 14.5	419 16.5	381 15	457 18
L2 (RTJ)	229 9	254 10	305 12	371 14.6	422 16.6	384 15.1	460 18.1
H	398 15.7	415 16.3	430 17	600 23.6	660 26	665 28.1	800 31.5
Do	200 8	200 8	200 8	300 12	350 14	350 14	500 20
RF (Kg)	25	28	32	87	130	122	182
BW (Kg)	22	24	28	80	115	102	167

L - FACE TO FACE DIMENSIONS OF THE RF FLANGED END  
L2 - FACE TO FACE DIMENSIONS OF THE TRJ FLANGED END

L<sub>1</sub> - FACE TO FACE DIMENSIONS OF THE BW FLANGED END  
H - THE DIMENSIONS WHEN THE VALVE IS CLOSED



# SWING CHECK VALVES

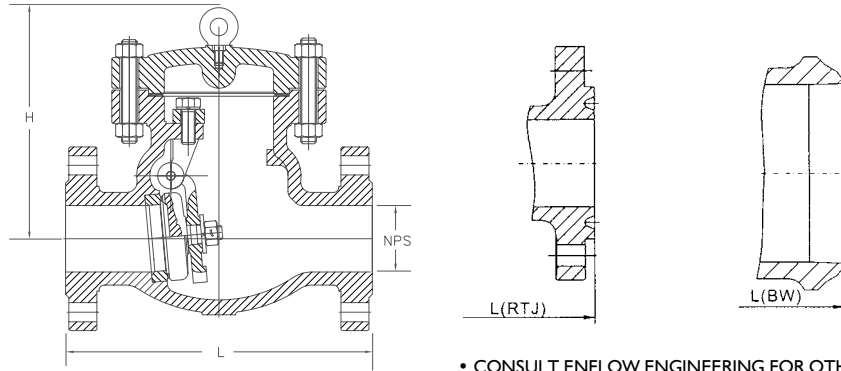


## AVAILABLE MATERIALS OF CONSTRUCTION

ITEM	PART NAME	STANDARD	LOW TEMPERATURE	STAINLESS STEEL
1	BODY	A216 WCB	A352 LCC	A182 CF8M
2	SEAT	A105	A350 LF2	A182 F316
3	DISC	A216 WCB	A350 LF2	A182 F316
4	DISC NUT	A182 F6	A182 F6	A182 F316
5	HINGE	A216 WCB	A352 LCC	A182 CF8M
6	PIN	A182 F6	A182 F6	A182 F316
7	GASKET	304 SS / 316 SS SPIRAL WOUND / SOLID 304 SS / 316 SS METAL RING		
8	COVER	A216 WCB	A352 LCC	A182 CF8M
9	STUDS	A193 B7 / B7M	A320 L7M / 7M	A193 B8M
10	NUT	A194 2H / 2HM	A194 7M	A182 GR8
11	WASHER	CARBON STEEL / STAINLESS STEEL		
	SEALING FACE OVERLAY	AVAILABLE API TRIMS		

• OTHER MATERIALS AVAILABLE UPON REQUEST

# SWING CHECK VALVES



## DIMENSIONS AND WEIGHTS (mm and inches)

• CONSULT ENFLOW ENGINEERING FOR OTHER VALVE TYPES AND CONFIGURATIONS

CLASS 150																			
DN NPS	15	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750
	1/2	1	1 - 1/2	2	2 - 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30
L - L <sub>1</sub> (RF = BW)	108 4.3	127 5	165 6.5	203 8	216 8.5	241 9.5	292 11.5	330 13	356 14	495 19.5	622 24.5	699 27.5	787 31	864 34	978 38.5	978 38.5	1295 51	1448 57	1524 60
L2(RTJ)	119 4.7	140 5.5	178 7	216 8.5	229 9	254 10	305 12	343 13.5	368 14.5	508 20	635 25	711 28	800 31.5	876 34.5	991 35	991 39	1308 51.5	1461 57.5	1537 60.5
H	130 5.1	140 5.5	150 6	170 6.8	180 7.1	185 7.4	215 8.5	240 9.5	260 10.3	300 11.9	350 13.9	400 15.8	450 17.8	480 19	540 21.3	600 25.6	680 26.8	710 28	790 31.1
RF (Kg)	8	10	11	17	23	33	44	69	78	137	207	279	428	555	775	835	1300	1450	1620
BW (Kg)	7	8	8.5	14	16	24	34	57	63	122	175	229	368	483	685	720	1150	1300	1450

CLASS 300																			
DN NPS	25	40	50	65	80	100	125	150	200	250	300	350	400	450	500	600	700	750	
	1	1 - 1/2	2	2 - 1/2	3	4	5	6	8	10	12	14	16	18	20	24	28	30	
L - L <sub>1</sub> (RF = BW)	216 8.5	241 9.5	2267 10.5	292 11.5	318 12.5	356 14	400 15.8	445 17.5	533 21	622 24.5	711 28	838 33	864 34	978 38.5	1016 40	1346 53.9	1499 59	1595 63	
L2(RTJ)	229 9	254 10	283 11	308 12.1	333 13	371 15	416 16	460 18.1	549 21.6	638 25	727 29	854 34	879 34.6	994 39.1	1035 41	1368 54	1524 60	1620 63.8	
H	150 5.9	160 6.3	170 6.8	185 7.4	215 8.5	235 9.3	270 10.6	300 11.9	340 13.4	350 13.9	420 16.6	480 18.9	520 20.5	600 23.6	670 26.4	750 29.6	780 30.7	810 32	
RF (Kg)	14	15	21	24	39	51	80	90	175	210	286	700	774	1000	1273	1650	1725	1819	
BW (Kg)	12	11	15	17	30	40	60	68	145	180	260	490	640	850	1100	1400	1570	1700	

CLASS 600														
DN NPS	50	65	80	100	150	200	250	300	350	400	450	500	600	
	2	2 - 1/2	3	4	6	8	10	12	14	16	18	20	24	
L - L <sub>1</sub> (RF = BW)	292 11.5	330 13	356 14	432 17	559 22	660 26	787 31	838 33	889 35	991 39	1092 43	1194 47	1397 55	
L2(RTJ)	295 12	333 13	359 14	435 17.1	562 22.1	664 26.1	791 31.1	841 33.1	892 35.1	994 39.1	1095 43.1	1200 47.3	1407 55.4	
H	175 6.9	200 7.9	230 9.1	295 11.6	360 14.3	400 15.8	460 18.1	520 20.5	560 22.1	650 25.6	730 28.8	800 31.5	900 35.5	
RF (Kg)	34	45	63	114	207	387	580	790	892	1200	1600	2420	3150	
BW (Kg)	26	37	50	98	145	310	490	670	752	1020	1350	2050	2720	

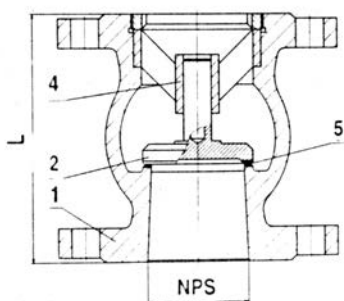
CLASS 900													
DN NPS	50	65	80	100	150	200	250	300	350	400	450	500	
	2	2 - 1/2	3	4	6	8	10	12	14	16	18	20	
L - L <sub>1</sub> (RF = BW)	371 14.5	422 16.5	381 15	457 18	610 24	737 29	838 33	965 38	1029 40.5	1130 44.5	1219 48	1321 52	
L2(RTJ)	371 15	422 17	384 15	460 18.1	613 24.1	740 29.1	841 33.1	968 38.1	1038 40.9	1140 44.9	1232 48.5	1334 52.5	
H	250 9.9	270 10.6	280 11	310 12.3	380 15	430 17	480 18.9	560 22	630 24.9	700 27.6	750 29.6	850 33.5	
RF (Kg)	69	93	85	145	310	500	772	1080	1380	1810	2400	3500	
BW (Kg)	60	78	70	120	265	385	600	860	1140	1510	2050	3100	

CLASS 1500													
DN NPS	50	65	80	100	150	200	250	300	350	400	450	500	
	2	2 - 1/2	3	4	6	8	10	12	14	16	18	20	
L - L <sub>1</sub> (RF = BW)	368 14.5	419 16.5	381 15	470 18.5	546 21.5	705 27.8	832 32.8	991 39	--	--	--	--	
L2(RTJ)	371 14.6	422 16.6	384 15	473 18.6	549 21.6	711 28	841 33.1	1000 39.4	--	--	--	--	
H	250 9.9	270 10.6	280 11	330 13	450 17.8	500 19.8	560 22.1	--	--	--	--	--	
RF (Kg)	69	93	85	120	235	540	949	1275	--	--	--	--	
BW (Kg)	60	78	70	90	185	450	785	1065	--	--	--	--	

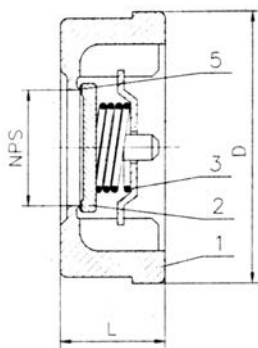
L - FACE TO FACE DIMENSIONS OF THE RF FLANGED END  
L2 - FACE TO FACE DIMENSIONS OF THE TRJ FLANGED END

L<sub>1</sub> - FACE TO FACE DIMENSIONS OF THE BW FLANGED END  
H - THE DIMENSIONS WHEN THE VALVE IS CLOSED

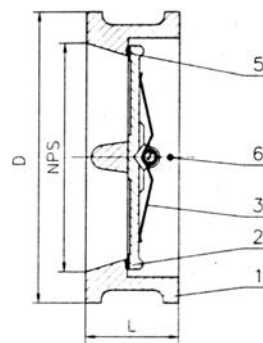
## WAFER AND FLANGE CHECK VALVES



Vertical lift  
check valves



Wafer lift  
check valves  
NPS2~6



Wafer double disc  
check valves  
NPS2~48

• CONSULT ENFLOW ENGINEERING FOR OTHER VALVE TYPES AND CONFIGURATIONS

## STANDARD MATERIAL SPECIFICATIONS

ITEM	PART NAME	CARBON STEEL		STAINLESS STEEL	
		WCB	LCC	CF8	CF8M
1	BODY	A216 WCB	A352 LCC	A351 CF8	A351 CF8M
2	DISC	A216 WCB	A352 LCC	A351 CF8	A351 CF8M
3	SPRING	AISI 6150		17-7PH STAINLESS STEEL (inconel for NACE standard) Ni - CrAlloy	
4	BUSH	A216 WCB	A352 LCC	A182 F6	
5	SEALING FACE OVERLAY	PTFE, 13 Cr and 18 Cr-8Ni or HF (Co-CrA)			
6	PIN	A182 F6	A182 F6	A182 F304	A182 F316

• OTHER MATERIALS AVAILABLE UPON REQUEST

## DIMENSIONS AND WEIGHTS (mm and inches)

## VERTICAL LIFT CHECK VALVE

CLASS 150														
DN NPS	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	2	2 - 1/2	3	4	5	6	8	10	12	14	16	18	20	24
L (RF)	158.8 6.3	177.8 7	190.5 7.5	216 8.5	241 9.5	254 10	304.8 12	355.6 14	457.2 18	533.4 21	571.5 22.5	609.6 24	609.6 24	711.2 28
BW (Kg)	20	35	39	55	80	89	182	258	422	514	630	753	980	1340

CLASS 300														
DN NPS	50	65	80	100	125	150	200	250	300	350	400	450	500	600
	2	2 - 1/2	3	4	5	6	8	10	12	14	16	--	--	--
L (RF)	165.1 6.5	184.2 7.3	200 7.9	231.8 9.1	263.5 10.4	279.4 11	330.2 13	390.5 15.4	495.3 19.5	571.5 22.5	609.6 24	--	--	--
BW (Kg)	25	35	47	60	89	147	230	335	552	701	898	--	--	--

**DIMENSIONS AND WEIGHTS (mm and inches)**
**WAFER CHECK VALVE**

CLASS 150																	
DN NPS	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	750 30	900 36	1000 42	1200 48
L (RF)	60 2.38	67 2.62	73 2.88	73 2.88	98 3.88	127 5	146 5.75	181 7.12	184 7.25	191 7.5	203 8	219 8.62	222 8.75	305 12	368 14.5	432 17	524 20.62
D	92 36.2	105 4.13	127 5	157 6.18	216 8.5	270 10.63	324 12.76	381 15	413 16.26	470 18.5	533 20.98	584 22.99	692 27.24	857 33.74	1022 40.24	1194 44.5	1359 50.75
BW (Kg)	1.2	2.3	3	7	15	23	30	37	49	62	78	97	125	300	395	470	595

CLASS 300																	
DN NPS	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	750 30	900 36	1000 42	1200 48
L (RF)	60 2.38	67 2.62	73 2.88	73 2.88	98 3.88	127 5	146 5.75	181 7.12	222 8.75	232 9.12	264 10.38	292 11.5	318 12.5	368 14.5	483 19	568 22.37	629 24.75
D	92 36.2	105 4.13	127 5	157 6.18	216 8.5	270 10.63	324 12.76	381 15	413 16.26	470 18.5	533 20.98	584 22.99	692 27.24	857 33.74	1022 40.24	1136 46	1302 52.24
BW (Kg)	2	2.9	5.5	9.2	20	25	32	39	52	67	82	102	135	321	400	515	611

CLASS 600																	
DN NPS	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	750 30	900 36	1000 42	1200 48
L (RF)	60 2.38	67 2.62	73 2.88	79 3.12	136 5.38	165 6.5	213 8.38	229 9	273 10.75	305 12	362 14.25	368 14.5	438 17.25	505 19.88	635 25	701 27.61	-- --
D	92 36.2	105 4.13	127 5	157 6.18	216 8.5	270 10.63	324 12.76	381 15	413 16.26	470 18.5	533 20.98	584 22.99	692 27.24	857 33.74	1022 40.24	1168 46	-- --
BW (Kg)	2.5	3.4	6.3	10.2	22	35	41	57	72	83	100	140	350	410	589	698	--

CLASS 900													
DN NPS	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24
L (RF)	70 2.75	83 3.25	83 3.25	102 4	159 6.25	206 8.12	241 9.5	292 11.5	356 14	384 15.12	451 17.75	451 17.75	495 19.5
D	92 3.62	105 4.13	127 5	157 6.18	216 8.5	270 10.63	324 12.76	381 15	413 16.26	470 18.5	533 20.98	584 22.99	692 27.24
BW (Kg)	2.8	4	8.2	13	25	41	59	82	105	198	225	255	398

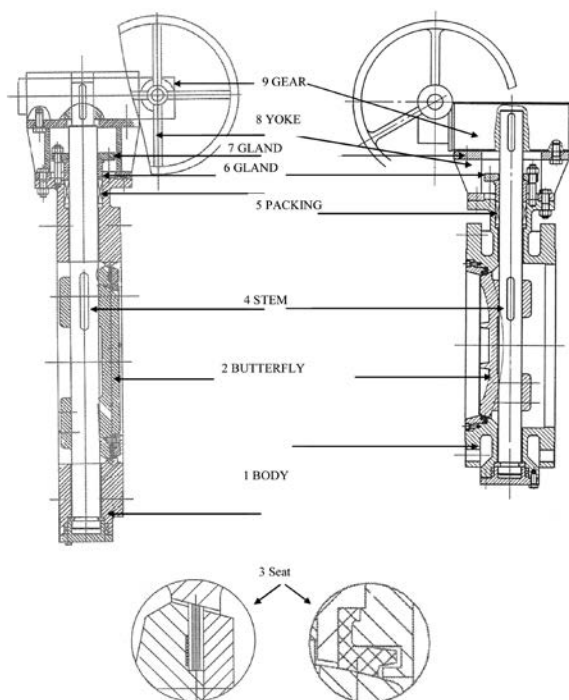
CLASS 1500													
DN NPS	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24
L (RF)	70 2.75	83 3.25	83 3.25	102 4	159 6.25	206 8.12	248 9.75	305 12	356 14	384 15.12	468 18.44	533 21	559 22
D	92 3.62	105 4.13	127 5	157 6.18	216 8.5	270 10.63	324 12.76	381 15	413 16.26	470 18.5	533 20.98	584 22.99	692 27.24
BW (Kg)	3.8	7	10.5	27.5	48.5	62	89	125	154	275	300	458	525

CLASS 2500													
DN NPS	50 2	65 2 - 1/2	80 3	100 4	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24
L (RF)	70 2.75	83 3.25	86 3.38	105 4.12	159 6.25	206 8.12	254 10	305 12	--	--	--	--	--
D	92 3.62	105 4.13	127 5	157 6.18	216 8.5	270 10.63	324 12.76	381 15	--	--	--	--	--
BW (Kg)	7	11	20.5	45.5	63.5	97	155	325	--	--	--	--	--

L - FACE TO FACE DIMENSIONS OF THE RF FLANGED END  
L2 - FACE TO FACE DIMENSIONS OF THE TRJ FLANGED END

L1 - FACE TO FACE DIMENSIONS OF THE BW FLANGED END  
H - THE DIMENSIONS WHEN THE VALVE IS CLOSED

# BUTTERFLY VALVES



## STANDARD MATERIAL SPECIFICATIONS

ITEM	PART NAME	CARBON STEEL		STAINLESS STEEL	
		WCB	LCC	CF8	CF8M
1	BODY	A216 WCB	A352 LCC	A351 CF8	A351 CF8M
2	BUTTERFLY PLATE	A216 WCB	A352 LCC	A351 CF8	A351 CF8M
3	SEAT RING	PTFE, VITON, BUNA, HARD FACE			
4	STEM	A182 F6 / 304 SS	A182 F6 / 304 SS	A182 F6 / 304 SS	A182 F316
5	PACKING	FLEXIBLE GRAPHITE			
6	GLAND	A182 F304	A182 F304	A182 F304	A182 F316
7	GLAND FLANGE	AISI 1025	AISI 1025	A182 F304	A182 F316
8	YOKE	A216 WCB	A352 LCC	A351 CF8	A351 CF8M
9	GEAR	CAST IRON			

## DIMENSIONS AND WEIGHTS (mm)

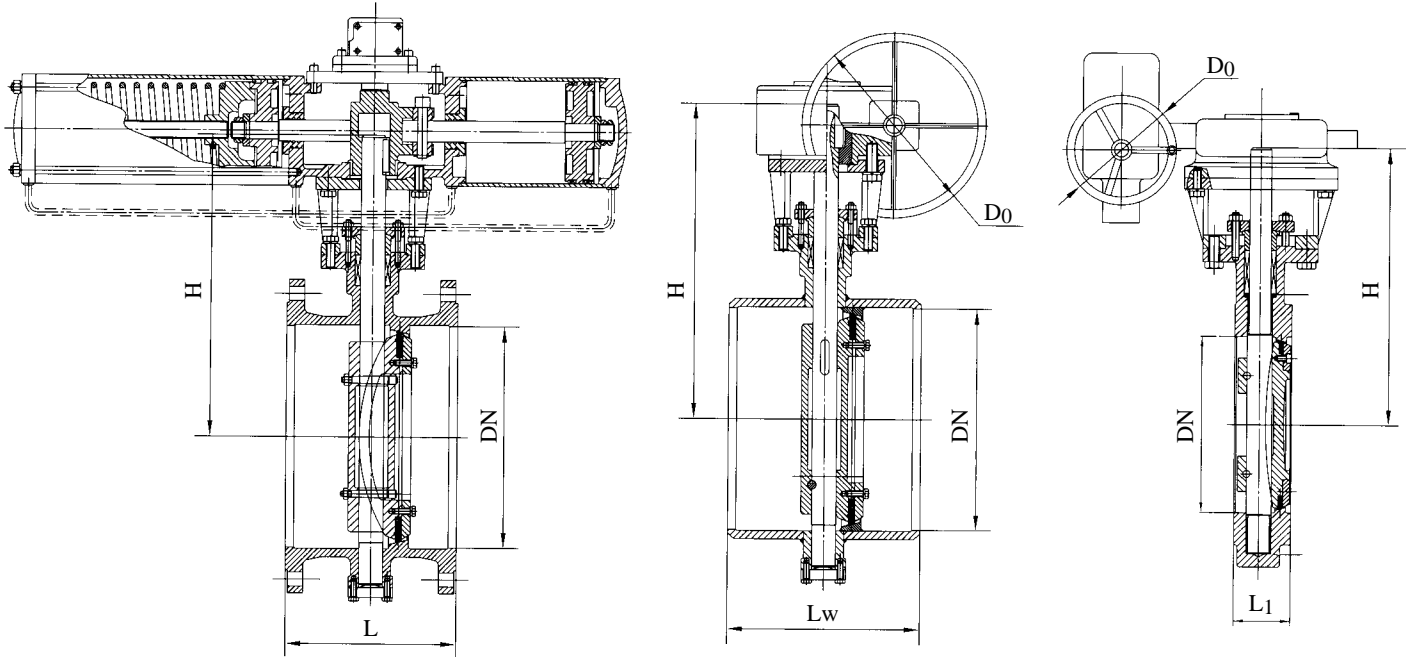
CLASS 150										
DN (IN)	3	4	5	6	8	10	12	14	16	18
L	114	127	140	140	152	165	178	190	216	222
L <sub>w</sub>	180	190	200	210	230	250	270	290	310	330
L <sub>1</sub>	48	54	56	57	64	71	81	92	102	114
Do	160	160	160	160	240	240	240	240	320	320
H	229	240	255	290	310	340	395	440	485	525

CLASS 150											
DN (IN)	28	32	36	40	44	48	56	60	64	72	80
L	292	318	330	410	444	470	530	565	216	670	760
L <sub>w</sub>	430	470	510	550	--	630	710	--	310	870	950
L <sub>1</sub>	229	241	241	300	--	350	390	--	102	490	540
Do	500	500	500	500	500	500	600	600	320	600	600
H	905	970	1038	1100	1150	1180	1525	1600	451	1893	2130

L - FACE TO FACE DIMENSIONS OF THE RF FLANGED END  
 L<sub>1</sub> - FACE TO FACE DIMENSIONS OF THE WAFER TYPE SOFT AND METAL SEATED FLANGED END

L<sub>w</sub> - FACE TO FACE DIMENSIONS OF THE BW FLANGED END  
 H - THE DIMENSIONS WHEN THE VALVE IS CLOSED

# BUTTERFLY VALVES



## DIMENSIONS AND WEIGHTS (mm)

CLASS 300										
DN (IN)	3	4	5	6	8	10	12	14	16	18
L	180	190	200	210	230	250	270	290	310	330
L <sub>w</sub>	180	190	200	210	230	250	270	290	310	330
L <sub>1</sub>	48	54	56	59	73	83	92	117	133	149
Do	160	160	160	240	240	240	240	240	320	350
H	229	240	255	290	310	340	395	440	485	525

CLASS 300										
DN (IN)	28	32	36	40	48	56	64	72	80	
L	430	470	510	550	630	710	790	870	950	
L <sub>w</sub>	430	470	510	550	630	710	790	870	950	
L <sub>1</sub>	229	241	241	300	350	390	440	490	540	
Do	500	500	500	500	600	600	600	600	600	
H	905	970	1038	1100	1180	1525	1640	1893	2130	

CLASS 600										
DN (IN)	4	5	6	8	10	12	14	16	18	20
L	190	200	210	230	250	270	290	310	330	350
L <sub>1</sub>	64	64	78	102	117	140	155	178	200	216
Do	240	240	320	320	320	350	500	500	500	500
H	260	310	320	350	420	470	500	550	640	850

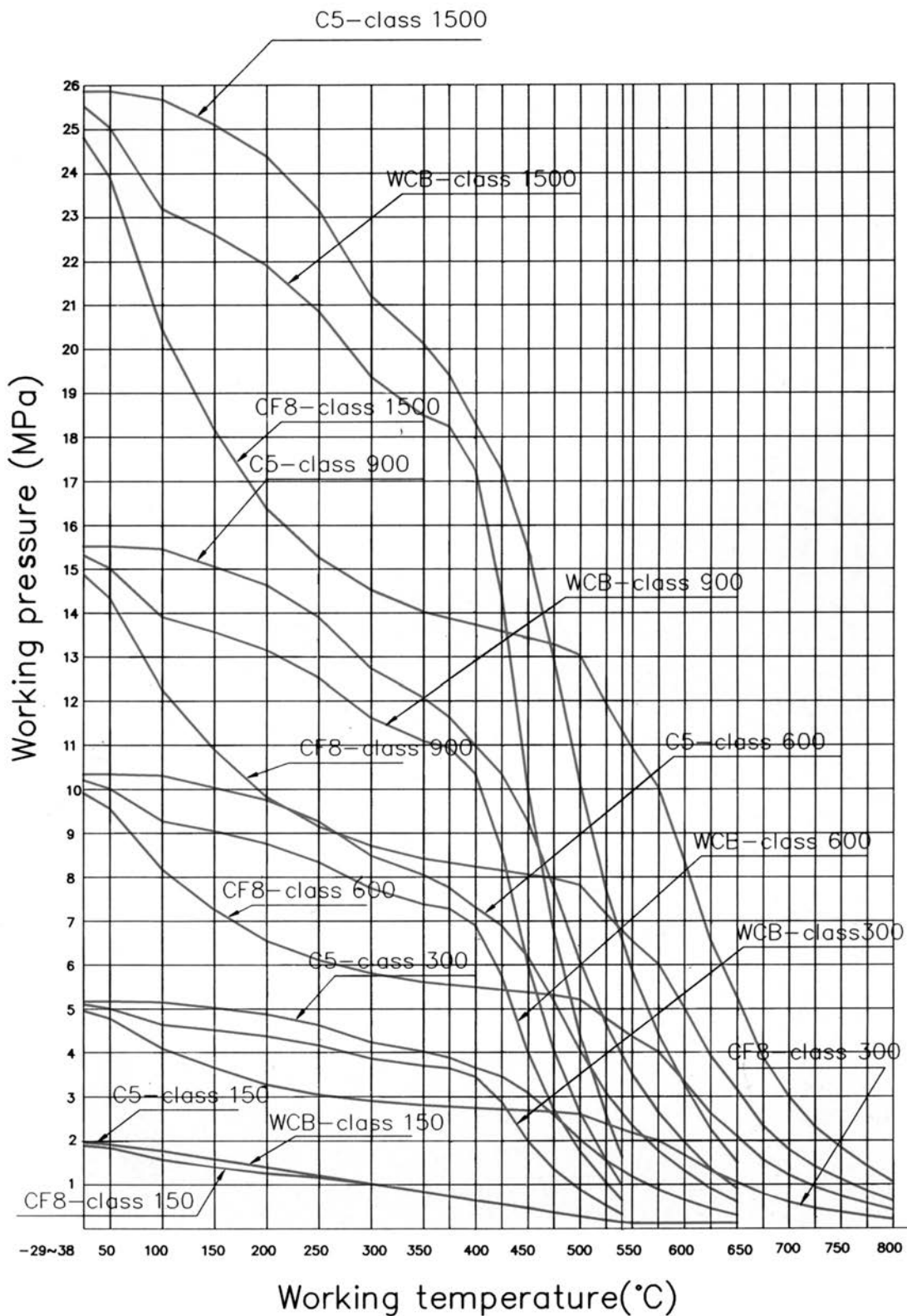
L - FACE TO FACE DIMENSIONS OF THE RF FLANGED END

L<sub>1</sub> - FACE TO FACE DIMENSIONS OF THE WAFER TYPE SOFT AND METAL SEATED FLANGED END

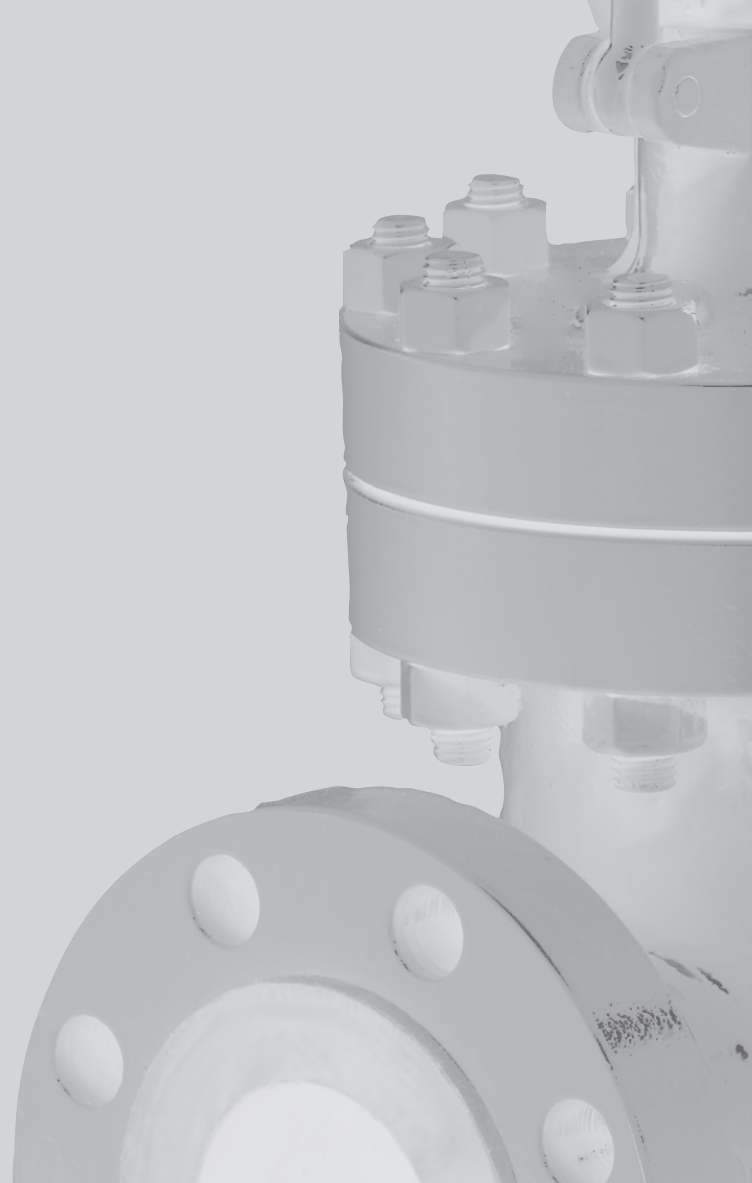
L<sub>w</sub> - FACE TO FACE DIMENSIONS OF THE BW FLANGED END

H - THE DIMENSIONS WHEN THE VALVE IS CLOSED

# PRESSURE - TEMPERATURE RATINGS TO ASME B16.34







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