



PRODUCT SOLUTION

SWING AND DUAL PLATE CHECK VALVE

Engineered for back-flow prevention

Premium technical presentation for industrial valve supply, procurement and project coordination across Latin American energy markets.



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CHECK VALVE

INTRODUCTION

FEATURES



Swing Check Valve

VALPRO Swing Check Valves are designed with a single-disc configuration to provide reliable, automatic flow control and prevent reverse flow within the pipeline.

During operation, the pressure of the flowing medium automatically opens the disc by rotating it around a fixed hinge pin. When the flow stops or reverses, the disc automatically returns to the closed position under its own weight and the effect of back pressure. The entire operating cycle is fully automatic and requires no manual intervention.

VALPRO Swing Check Valves feature a simple and robust construction with a reduced number of components, resulting in easy maintenance, convenient servicing, and a low failure rate. The full-opening disc design provides a large flow area when the valve is fully open, minimizing flow resistance and pressure loss while delivering a high flow coefficient.

INTRODUCTION

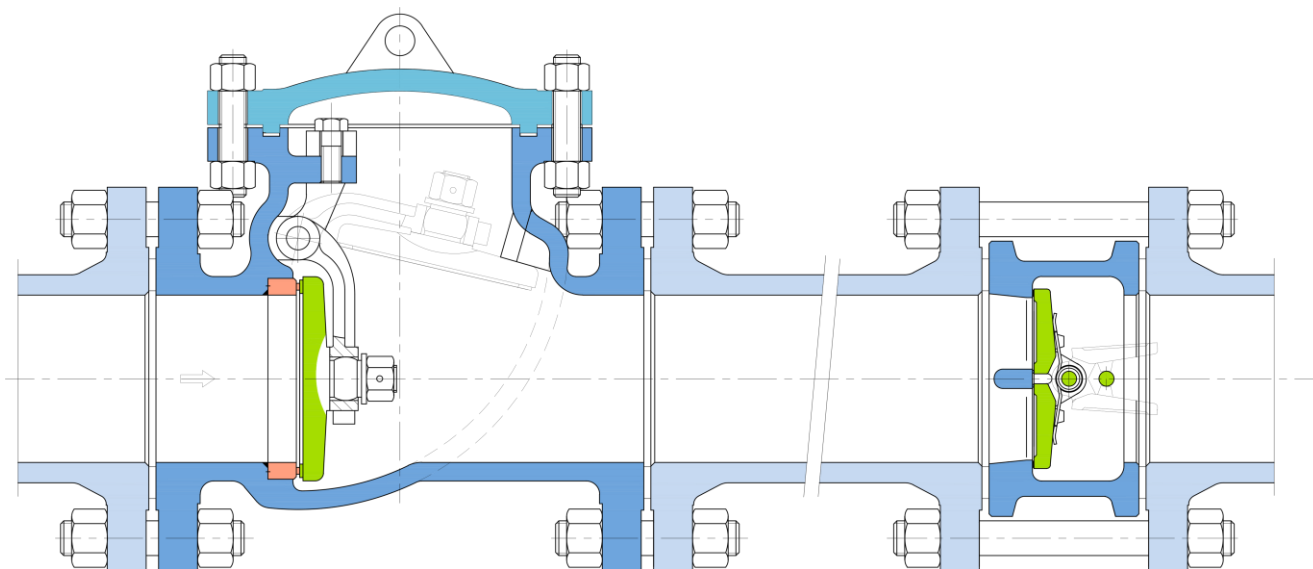
Check valve is installed on the pipeline to prevent the media reverse flow and ensure one-way flow of media channels only.



Dual Wafer Check Valve

Dual wafer check valve has dual disc. Under the force of medium, the disc is rotated around the same shaft pin, and it closes automatically with the force of spring while the medium stops flow.

VALPRO dual wafer check valve offers easy assembly and maintenance as well as quick open and close. Single disc wafer, dual wafer, axial flow, quick opening and slow closing action with damping check are available based on different request of service.



CHECK VALVE

SCOPE OF PRODUCTS

Legends: A – Swing Type

C – Lift Type

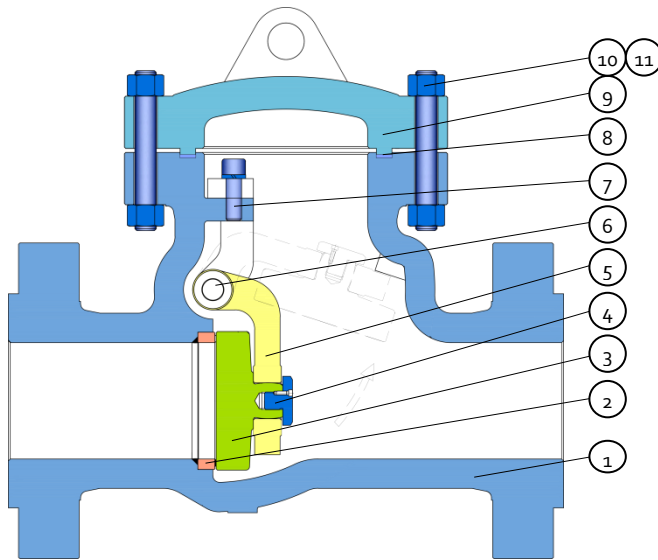
B – Dual Plate Type

Size in/mm	Class 150 PN 20	Class 300 PN 50	Class 600 PN 100	Class 900 PN 150	Class 1500 PN 250	Class 2500 PN 420
2 50	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
2 1/2 65	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
3 80	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
4 100	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
6 150	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
8 200	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
10 250	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
12 300	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C	A,B,C
14 350	A,B,C	A,B,C	A,B,C	A,B,C		
16 400	A,B,C	A,B,C	A,B,C	A,B,C		
18 450	A,B,C	A,B,C	A,B,C	A,B		
20 500	A,B,C	A,B,C	A,B,C	A,B		
22 550	A,B,C	A,B,C	A,B,C	A,B		
24 600	A,B,C	A,B,C	A,B,C	A,B		
26 650	A,B	A,B	A,B	A,B		
28 700	A,B	A,B	A,B	A,B		
30 750	A,B	A,B	A,B			
32 800	A,B	A,B	A,B			
34 850	A,B	A,B	A,B			
36 900	A,B	A,B	A,B			
38 950	B	B	B			
40 1000	B	B	B			
42 1050	B	B	B			
48 1200	B	B	B			
56 1400	B	B	B			
60 1500	B	B	B			

1. The sizes listed above are normal diameters. Contact our sales representative if any other dimensions are requested.

CHECK VALVE

OVERVIEW (Swing Type)



STANDARDS

Design & Manufacture	BS 1868, ASME B16.34 API 6D
Face-to-face	ASME B16.10
End Dimension	ASME B16.5 (RF, RTJ), ASME B16.47 (RF, RTJ) MSS SP-44 (NPS 22 Only) ASME B16.25 (BW)
Test & inspection	API 598, API 6D, ISO 5208

TYPICAL MATERIALS

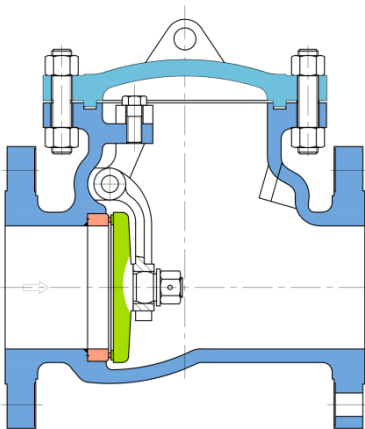
Body,	(Casting) A216 WCB, A217 WC6, WC9,
Cover,	A351 CF3, CF8, CF3M, CF8M,
Disc	A995 4A, 5A, A352 LCB, LCC, LC2, Monel, Inconel, Hastelloy

Part List

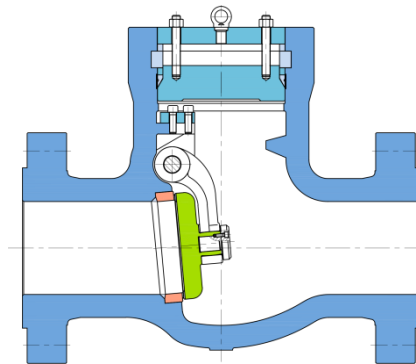
1 Body	7 Screw
2 Seat Ring	8 Gasket
3 Disc	9 Cover
4 Disc Nut	10 Nut
5 Hinge	11 Stud
6 Pin	

Seal Surface	METAL, HNBR, FKM, CUSTOMIZED
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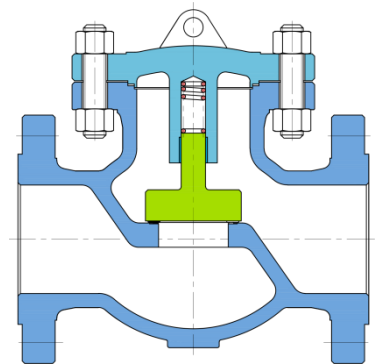
Typical Check Valve



Bolted Cover Swing Check Valve



Pressure Seal Cover Swing Check Valve

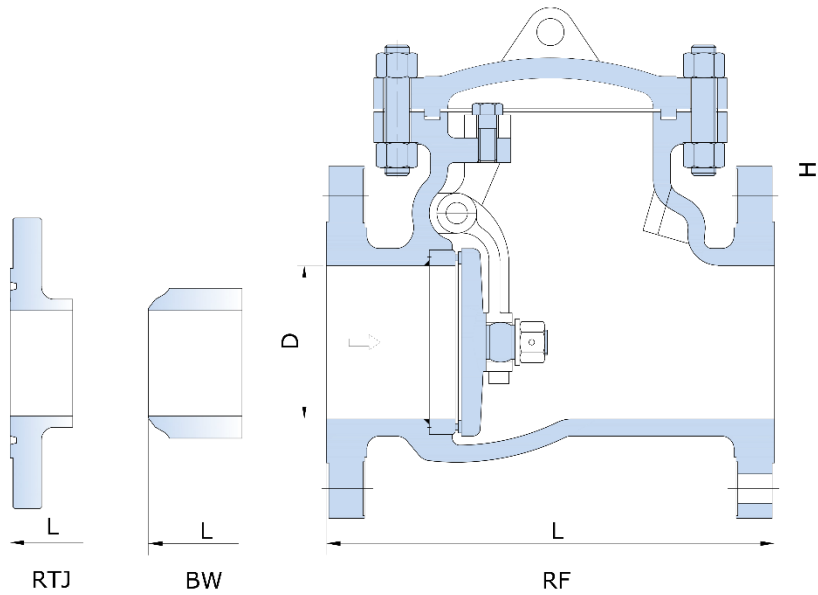


Bolted Cover Lift Check Valve

CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 150 (PN 20)



ASME CLASS 150 (PN 20)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	2	8	8.5	8	5.5	37
50	51	203	216	203	140	17
2 1/2	2 1/2	8.5	9	8.5	6.3	44
65	64	216	229	216	160	20
3	3	9.5	10	9.5	7.1	53
80	80	241	254	241	180	24
4	4	11.5	12	11.5	8.27	84
100	102	292	305	292	210	38
6	6	14	14.5	14	11.42	198
150	152	356	368	356	290	90
8	8	19.5	20	19.5	14.17	286
200	203	495	508	495	360	130
10	10	24.5	25	24.5	15.75	430
250	252	622	635	622	400	195
12	12	27.48	28	27.48	18.11	661
300	305	698	711	698	460	300
14	14	31	31.5	31	20.47	804
350	337	787	800	787	520	365
16	15.24	34	34.5	34	24.41	1178
400	387	864	876	864	620	535
18	17.24	38.5	39	38.5	27.17	1652
450	438	978	991	978	690	750
20	19.25	38.5	39	38.5	28.35	1949
500	489	978	991	978	720	885
24	23.22	51	51.5	51	29.13	2533
600	590	1295	1308	1295	740	1150
28	27.24	57	-	57	33.46	3822
700	692	1448	-	1448	850	1735
30	29.25	60	-	60	39.37	4515
750	743	1524	-	1524	1000	2050
36	35.23	77	-	77	44.88	4626
900	895	1956	-	1956	1140	2100

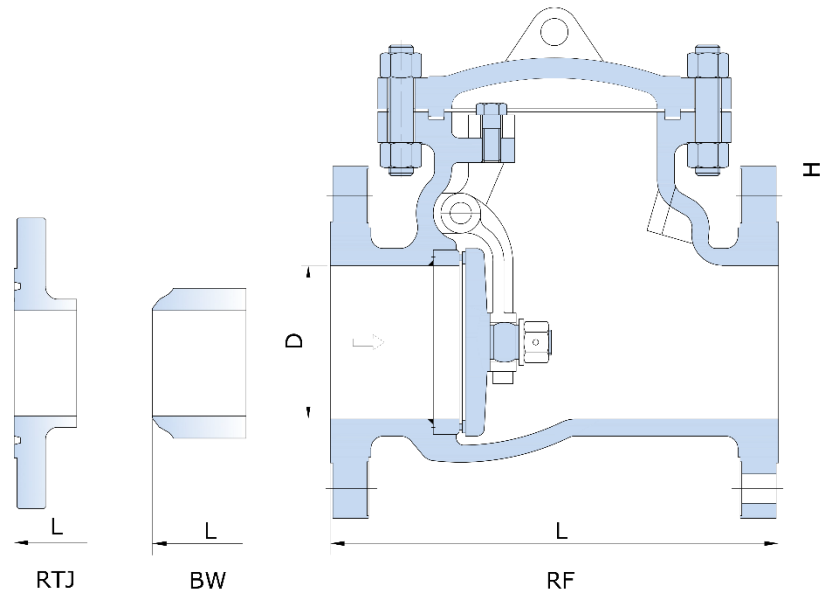
The dimension and weights are for reference only and subject to change without notice.

1. For more size or dimensional information, please contact our sales representative.

CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 300 (PN 50)



ASME CLASS 300 (PN 50)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	2	10.5	11.14	10.5	6.1	51
50	51	267	283	267	155	23
2 1/2	2 1/2	11.5	12.13	11.5	7.09	81
65	64	292	308	292	180	37
3	3	12.52	13.15	12.52	7.87	101
80	80	318	334	318	200	46
4	4	14	14.65	14	8.66	156
100	102	356	372	356	220	71
6	6	17.5	18.11	17.5	12.4	256
150	152	444	460	444	315	116
8	8	21	21.61	21	15.16	445
200	203	533	549	533	385	202
10	10	24.5	25.12	24.5	16.93	652
250	252	622	638	622	430	296
12	12	28	28.62	28	19.29	943
300	305	711	727	711	490	428
14	14	33	33.62	33	21.65	1284
350	337	838	854	838	550	583
16	15.24	34	34.65	34	24.61	1661
400	387	864	880	864	625	754
18	17	38.5	39.13	38.5	26.38	2059
450	432	978	994	978	670	935
20	19	40	40.75	40	29.13	2544
500	483	1016	1035	1016	740	1155
24	23	53	53.86	53	31.89	3101
600	584	1346	1368	1346	810	1408
28	27	59	60	59	34.25	3789
700	686	1499	1524	1499	870	1720
32	29	62.76	63.74	62.76	38.98	4141
800	737	1594	1619	1594	990	1880
36	35	82	82.64	82	45.67	2846
900	889	2083	2099	2083	1160	2200

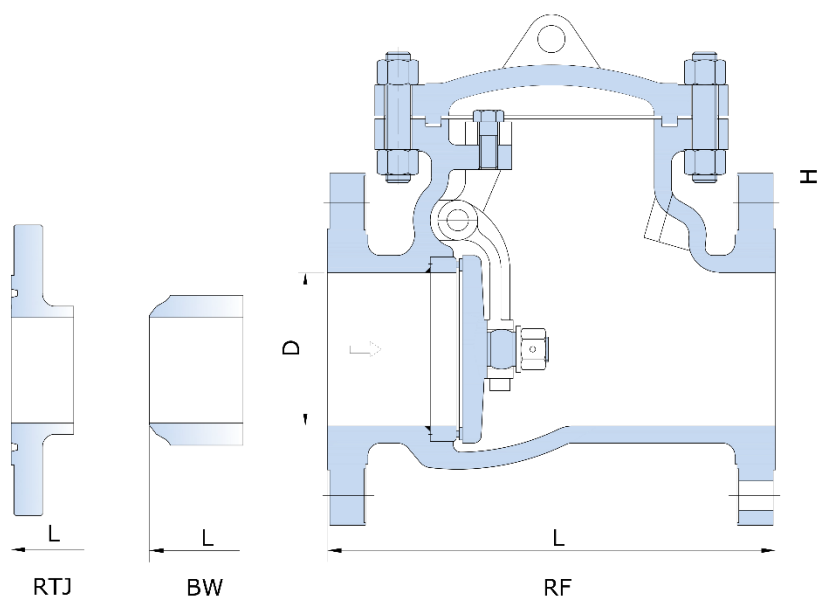
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 600 (PN 100)



ASME CLASS 600 (PN 100)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	2	11.5	11.61	11.5	6.7	57
50	51	292	295	292	170	26
2 1/2	2 1/2	13	13.11	13	7.4	70
65	64	330	333	330	188	32
3	3	14	14.13	14	9.37	108
80	80	356	359	356	238	49
4	4	17	17.13	17	11.42	189
100	102	432	435	432	290	86
6	6	22	22.13	22	14	555
150	152	559	562	559	355	252
8	7.87	26	26.10	26	16.34	945
200	200	660	663	660	415	429
10	9.76	31	31.1	31	18.82	1227
250	248	787	790	787	478	557
12	11.77	33	33.11	33	21.26	1467
300	299	838	841	838	540	670
14	12.87	35	35.12	35	22.83	2079
350	327	889	892	889	580	944
16	14.76	39	39.13	39	26.38	2863
400	375	991	994	991	670	1300
18	16.5	43	43.11	43	30.94	3877
450	419	1092	1095	1092	786	1760
20	18.27	47	47.24	47	33.27	4846
500	464	1194	1200	1194	845	2200
24	22	55	55.39	55	37	6308
600	559	1397	1407	1397	940	2864
28	25.51	63	63.5	63	41.34	7048
700	648	1600	1613	1600	1050	3200
32	29	70	70.63	70	45.67	8238
800	737	1778	1794	1778	1160	3740
36	32.64	82	82.64	82	50	9912
900	829	2083	2099	2083	1270	4500

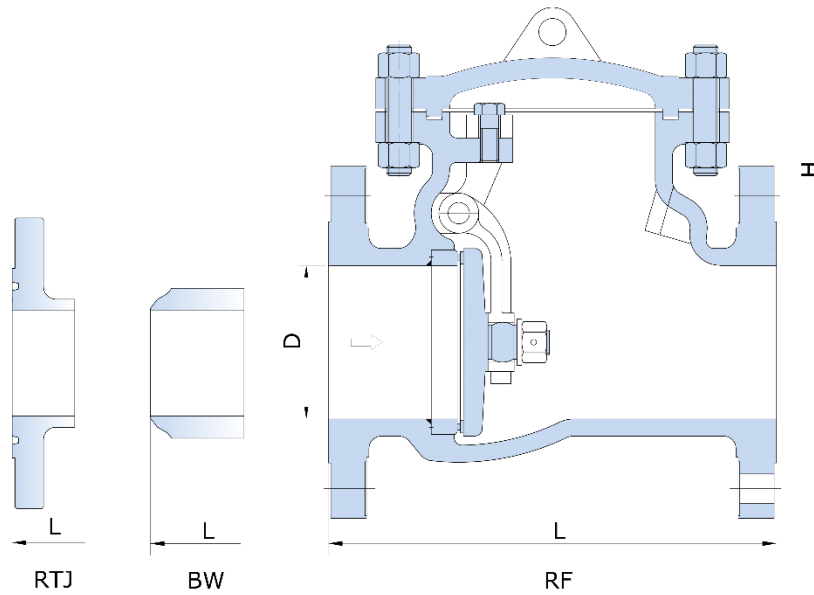
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 900 (PN 150)



ASME CLASS 900 (PN 150)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.89	14.5	14.61	14.5	7.87	121
50	48	368	371	368	200	55
2 1/2	2.24	16.5	16.61	16.5	10.24	165
65	57	419	422	419	260	75
3	2.87	15	15.12	15	11.22	220
80	73	381	384	381	285	100
4	3.86	18	18.11	18	12.6	308
100	98	457	460	457	320	140
6	5.75	24	24.13	24	16.54	643
150	146	610	613	610	420	292
8	7.52	29	29.13	29	20.47	1211
200	191	737	740	737	520	550
10	9.37	33	33.11	33	21.26	1542
250	238	838	841	838	540	700
12	11.1	38	38.11	38	23.23	1905
300	282	965	968	965	590	865
14	12.24	40.51	40.91	40.51	25.2	2753
350	311	1029	1039	1029	640	1250
16	14	44.5	44.88	44.5	27.56	3855
400	356	1130	1140	1130	700	1750
18	15.75	48	48.5	48	29.53	4515
450	400	1219	1232	1219	750	2050
20	17.52	52	52.52	52	31.89	5396
500	445	1321	1334	1321	810	2450
24	21	61	61.73	61	38.58	6057
600	533	1549	1568	1549	980	2750

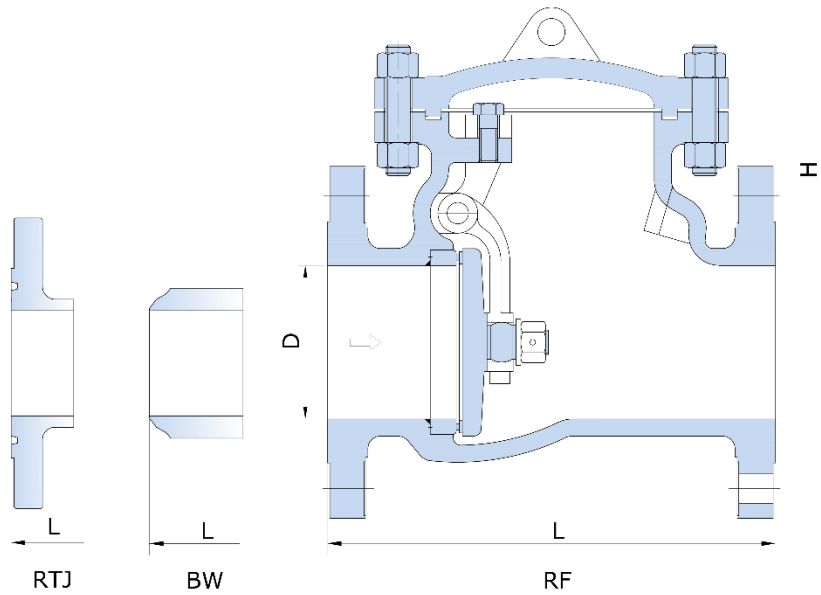
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Swing Type)

ASME CLASS 1500 (PN 250)



ASME CLASS 1500 (PN 250)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.89	14.5	14.61	14.5	7.87	143
50	48	368	371	368	200	65
2 1/2	2.24	16.5	16.61	16.5	10.63	176
65	57	419	422	419	270	80
3	2.76	18.5	18.62	18.5	11	264
80	70	470	473	470	280	120
4	3.58	21.5	21.61	21.5	13.78	419
100	91	546	549	546	350	190
6	5.35	27.76	28	27.76	18.5	1057
150	136	705	711	705	470	480
8	7	32.76	33.15	32.76	22.05	1674
200	178	832	842	832	560	760
10	8.74	39	39.41	39	25.6	2313
250	222	991	1001	991	650	1050
12	10.35	44.5	45.12	44.5	28.74	3172
300	263	1130	1146	1130	730	1440
14	11.38	49.5	50.24	49.5	33.07	3833
350	289	1257	1276	1257	840	1740
16	13	54.5	55.35	54.5	37	5374
400	330	1384	1406	1384	940	2440
18	14.6	60.5	61.38	60.5	41.34	7048
450	371	1537	1559	1537	1050	3200
20	16.38	65.5	66.38	65.5	45.67	8370
500	416	1664	1686	1664	1160	3800
24	19.6	76.5	77.6	76.5	50	9471
600	498	1943	1971	1943	1270	4300

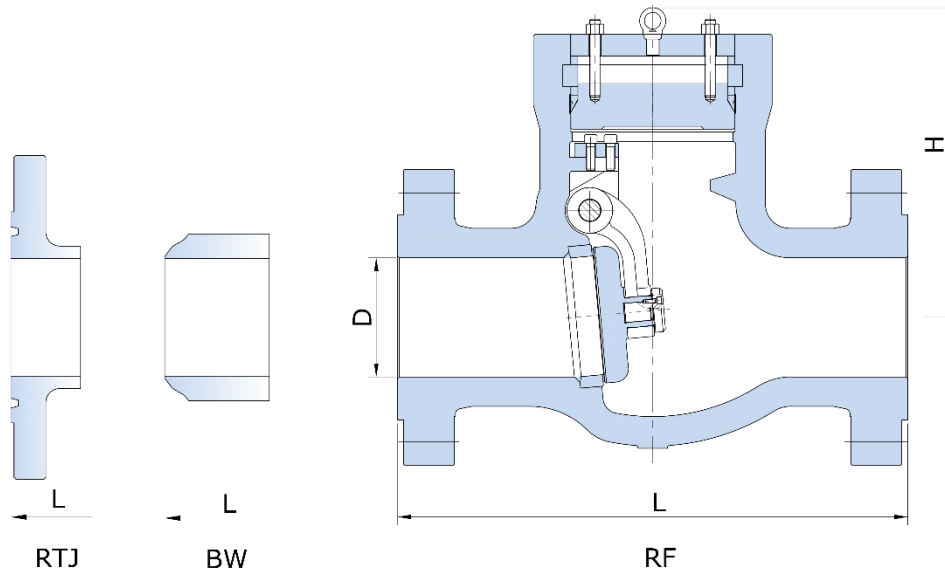
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CHECK VALVE

DIMENSIONS AND WEIGHTS (Pressure Seal)

ASME CLASS 1500/2500 (PN 250/420)



ASME CLASS 1500 (PN 250)

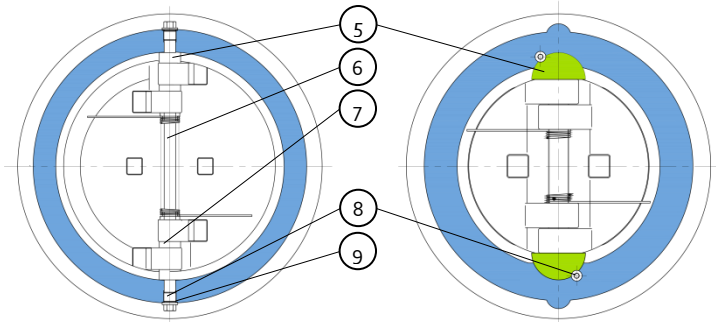
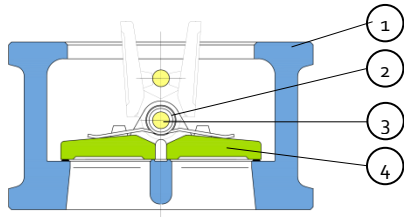
Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.89	14.5	14.61	8.5	9.65	62
50	48	368	371	216	245	28
2 1/2	2.24	16.5	16.61	10	10.24	79
65	57	419	422	254	260	36
3	2.76	18.5	18.62	12	11.81	110
80	70	470	473	305	300	50
4	3.58	21.5	21.61	16	13.39	176
100	91	546	549	406	340	80
6	5.35	27.76	28	19	16.93	639
150	136	705	711	483	430	290
8	7	32.76	33.15	28	20.87	1079
200	178	832	842	711	530	490
10	8.74	39	39.41	34	22.44	1652
250	222	991	1001	864	570	750
12	10.35	44.5	45.12	39	25.2	2423
300	263	1130	1146	991	640	1100
14	11.38	49.5	50.24	42	27.56	3084
350	289	1257	1276	1067	700	1400
16	13	54.5	55.35	47	30.31	3524
400	330	1384	1406	1194	770	1600

ASME CLASS 2500 (PN 420)

Size in/mm	D	L			H	Weight (lb/kg)
		RF	RTJ	BW		RF/RTJ
2	1.5	17.76	17.87	11	9.84	132
50	38	451	454	279	250	60
2 1/2	1.89	20	20.24	13	11	187
65	48	508	514	330	280	85
3	2.24	22.76	23	14.5	11.81	220
80	57	578	584	368	300	100
4	2.87	26.5	26.89	18	13.58	363
100	73	673	683	457	345	165
6	4.37	35.98	36.5	24	17.32	1013
150	111	914	927	610	440	460
8	5.75	40.24	40.87	30	21.06	1982
200	146	1022	1038	762	535	900
10	7.24	50	54.8	36	22.83	2863
250	184	1270	1392	914	580	1300
12	8.62	55.98	56.89	10.94	26	3965
300	219	1422	1445	1040	660	1800

CHECK VALVE

OVERVIEW (Wafer Type)



External Pin Structure

Internal Pin Structure

Part List

- | | |
|----------------|-------------------|
| ① Body | ⑥ Pin |
| ② Spring Seat | ⑦ Middle Retainer |
| ③ Spring | ⑧ Screw |
| ④ Disc | ⑨ Washer |
| ⑤ End Retainer | |

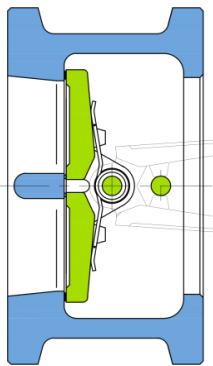
STANDARDS

Design & Manufacture	API 594, ASME B16.34 API 6D
Face-to-face	API 594, ASME B16.10
End Dimension	ASME B16.5 (RF) ASME B16.47 (RF) MSS SP-44 (NPS 22 Only)
Test & inspection	API 598, API 6D, ISO 5208

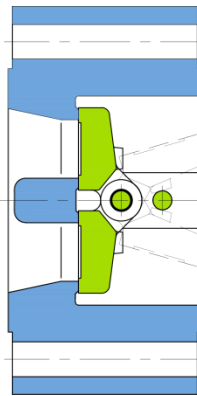
TYPICAL MATERIALS

Body, Disc	A216 WCB, WCC, A217 WC6, WC9 A351 CF3, CF8, CF3M, CF8M, A995 4A, 5A, Monel, Inconel, Hastelloy
Seat	METAL, FKM, HNBR, EPDM, CUSTOMIZED
Pin	A276 410, 304, 316,
Spring	Inconel x750, Inconel 718

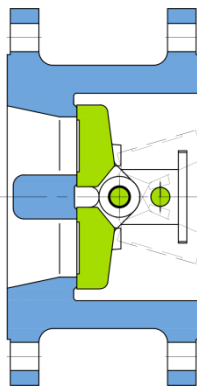
Typical Wafer Check Valve



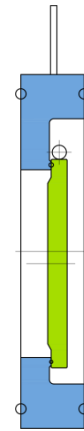
Wafer Type,
Dual Plate



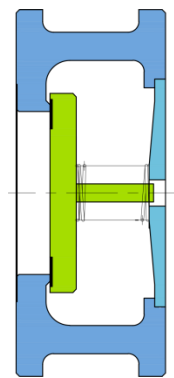
Lug Type,
Dual Plate



Flanged Type,
Dual Plate



Wafer Type,
Single Plate

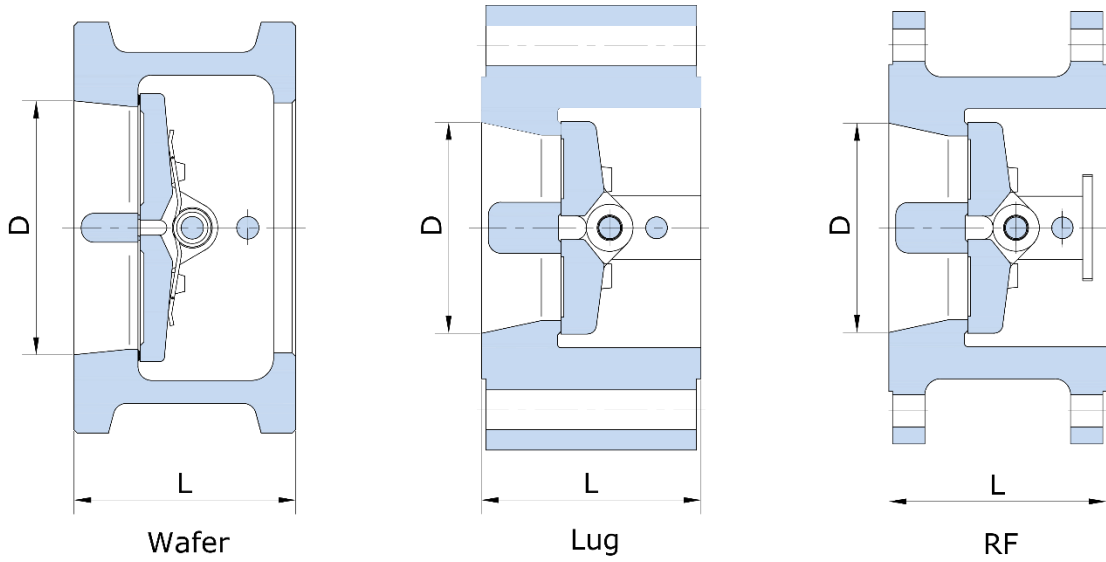


Wafer Type,
Lift Type

CHECK VALVE

DIMENSIONS AND WEIGHTS (Wafer Type)

ASME CLASS 150 /300(PN 20/50)



ASME CLASS 150 (PN 20)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.36	4
50	50	60	2
2 1/2	2 1/2	2.64	7
65	65	67	3
3	3	2.87	9
80	80	73	4
4	4	2.87	11
100	100	73	5
6	6	3.86	29
150	150	98	13
8	8	5	55
200	200	127	25
10	10	5.75	86
250	250	146	39
12	12	7.13	119
300	300	181	54
14	14	7.24	176
350	350	184	80
16	16	7.52	258
400	400	191	117
18	18	8	359
450	450	203	163
20	20	8.62	729
500	500	219	331
24	24	8.74	837
600	600	222	380
28	28	12	969
700	700	305	440
30	30	12	1189
750	750	305	540
36	36	14.5	1872
900	900	368	850
40	40	17	2533
1000	1000	432	1150
48	48	20.63	3524
1200	1200	524	1600

ASME CLASS 300 (PN 50)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.36	7
50	50	60	3
2 1/2	2 1/2	2.64	9
65	65	67	4
3	3	2.87	13
80	80	73	6
4	4	2.87	18
100	100	73	8
6	6	3.86	40
150	150	98	18
8	8	5	84
200	200	127	38
10	10	5.75	112
250	250	146	51
12	12	7.13	170
300	300	181	77
14	14	8.74	258
350	350	222	117
16	16	9.13	419
400	400	232	190
18	18	10.39	441
450	450	264	200
20	20	11.5	584
500	500	292	265
24	24	12.5	903
600	600	318	410
28	28	12	1145
700	700	305	520
30	30	14.5	1278
750	750	368	580
36	36	19	1960
900	900	483	890
40	40	22.36	2621
1000	1000	568	1190
48	48	24.76	3744
1200	1200	629	1700

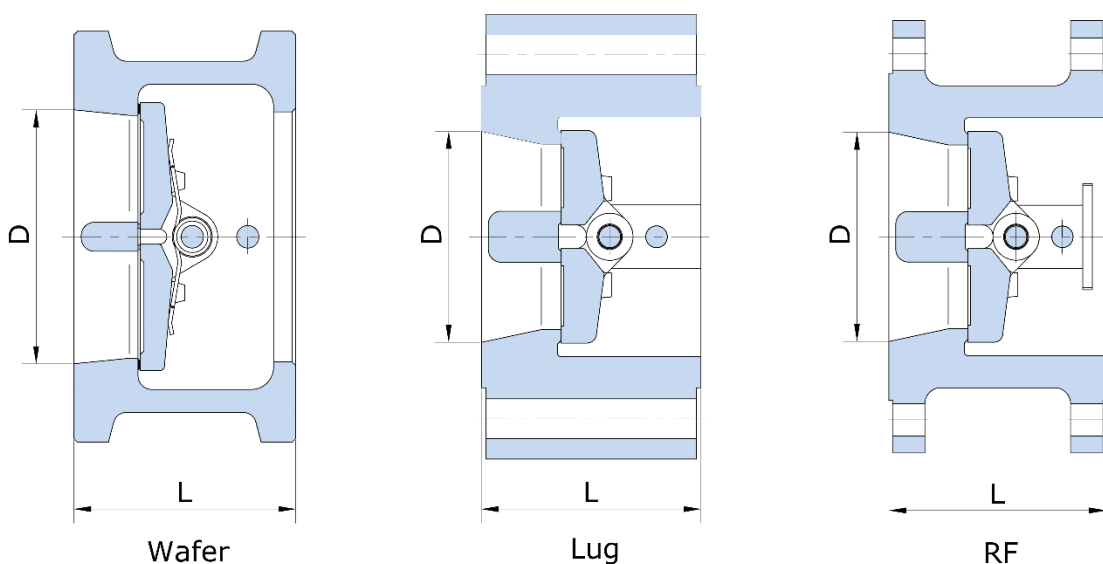
(1) The dimension and weights are for reference only and subject to change without notice.

(2) For more dimensional information, please contact our sales representative.

CHECK VALVE

DIMENSIONS AND WEIGHTS (Wafer Type)

ASME CLASS 600 /900 (PN 100/150)



ASME CLASS 600 (PN 100)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.36	9
50	50	60	4
2 1/2	2 1/2	2.64	11
65	65	67	5
3	3	2.87	18
80	80	73	8
4	4	3.11	24
100	100	79	11
6	6	5.35	57
150	150	136	26
8	8	6.5	121
200	200	165	55
10	10	8.39	209
250	250	213	95
12	12	9	308
300	300	229	140
14	14	10.75	491
350	350	273	223
16	16	12	793
400	400	305	360
18	18	14.25	870
450	450	362	395
20	20	14.5	1141
500	500	368	518
24	24	17.24	1841
600	600	438	836
30	30	19.88	2423
750	750	505	1100
36	36	27.6	3524
900	900	701	1600

ASME CLASS 900 (PN 150)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	2	2.76	18
50	50	70	8
2 1/2	2 1/2	3.27	24
65	65	83	11
3	3	3.27	31
80	80	83	14
4	4	4	44
100	100	102	20
6	6	6.26	93
150	150	159	42
8	8	8.11	185
200	200	206	84
10	10	9.5	319
250	250	241	145
12	12	11.5	485
300	300	292	220
14	14	14	770
350	350	356	350
16	16	15.12	1035
400	400	384	470
18	18	17.76	1333
450	450	451	605
20	20	17.76	1806
500	500	451	820
24	24	19.5	2313
600	600	495	1050

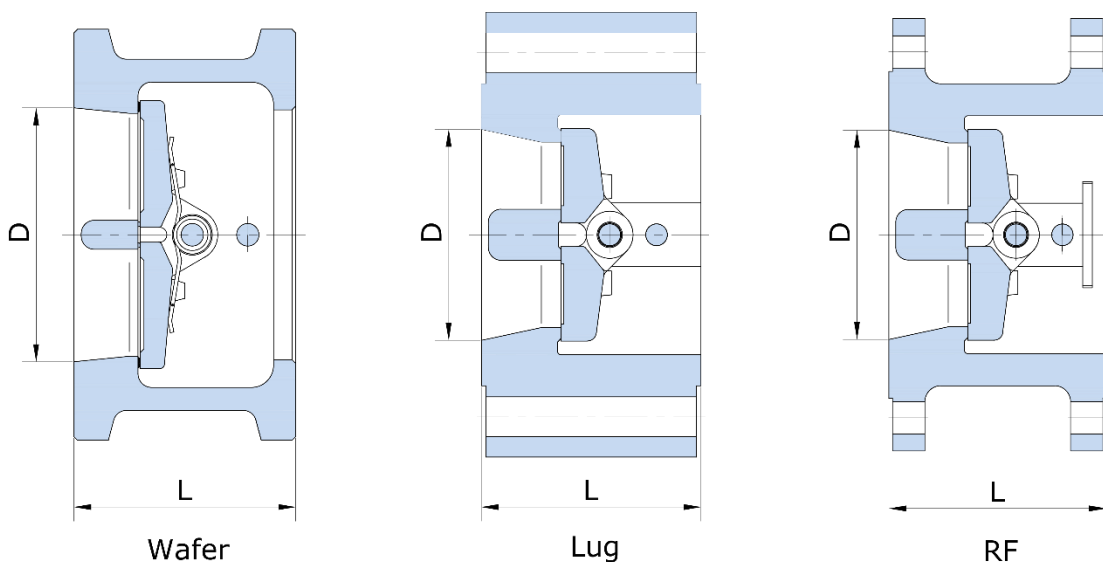
(1) The dimension and weights are for reference only and subject to change without notice.

(2) For more dimensional information, contact one of our representatives.

CHECK VALVE

DIMENSIONS AND WEIGHTS (Wafer Type)

ASME CLASS 1500 /2500 (PN 250/420)



ASME CLASS 1500 (PN 250)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	1.89	2.76	18
50	48	70	8
2 ½	2.24	3.27	24
65	57	83	11
3	2.76	3.27	42
80	70	83	19
4	3.58	4	57
100	91	102	26
6	5.35	6.26	150
150	136	159	68
8	7	8.11	286
200	178	206	130
10	8.74	9.76	463
250	222	248	210
12	10.35	11.5	837
300	263	305	380
14	11.38	14	1211
350	289	356	550
16	13	15.12	1388
400	330	384	630
18	14.6	18.43	1652
450	371	468	750
20	16.38	21	1652
500	416	533	970
24	19.6	22	2599
600	498	559	1180

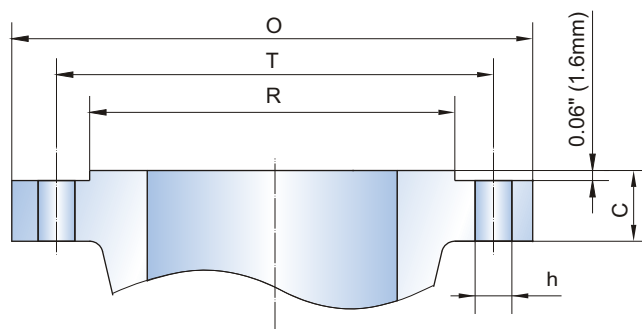
ASME CLASS 2500 (PN 420)

Size in/mm	D	L	Weight (lb/kg)
		WAFER / LUG	WAFER
2	1.5	2.76	20
50	38	70	9
2 ½	1.89	3.27	26
65	48	83	12
3	2.24	3.39	46
80	57	86	21
4	2.87	4.13	62
100	73	105	28
6	4.37	6.26	154
150	111	159	70
8	5.75	8.11	308
200	146	206	140
10	7.24	10	474
250	184	254	215
12	8.62	12	881
300	219	305	400

(1) The dimension and weights are for reference only and subject to change without notice.

(2) For more dimensional information, please contact our sales representative.

CLASS 150 300 RF



CLASS	SIZE		O		R		C		T		h		Bolt	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	QTY.	Diameter
150	2	50	6.00	152	3.62	92	0.62	16	4.75	120.5	0.75	19	4	5/8
	2 1/2	65	7.00	178	4.12	105	0.69	18	5.50	139.5	0.75	19	4	5/8
	3	80	7.50	190	5.00	127	0.75	19	6.00	152.5	0.75	19	4	5/8
	4	100	9.00	229	6.19	157	0.94	24	7.50	190.5	0.75	19	8	5/8
	6	150	11.00	279	8.50	216	1.00	26	9.50	241.5	0.88	22	8	3/4
	8	200	13.50	343	10.62	270	1.12	29	11.75	298.5	0.88	22	8	3/4
	10	250	16.00	406	12.75	324	1.19	31	14.25	362	1.00	25	12	7/8
	12	300	19.00	483	15.00	381	1.25	32	17.00	432	1.00	25	12	7/8
	14	350	21.00	533	16.25	413	1.38	35	18.75	476	1.12	29	12	1
	16	400	23.50	597	18.50	470	1.44	37	21.25	540	1.12	29	16	1
	18	450	25.00	635	21.00	533	1.56	40	22.75	578	1.25	32	16	1 1/8
	20	500	27.50	699	23.00	584	1.69	43	25.00	635	1.25	32	20	1 1/8
	24	600	32.00	813	27.25	692	1.88	48	29.50	749.5	1.38	35	20	1 1/4
	26	650	34.25	870	29.50	749	2.69	69	31.75	806.5	1.38	35	24	1 1/4
	28	700	36.50	927	31.50	800	2.81	72	34.00	863.5	1.38	35	28	1 1/4
	30	750	38.75	984	33.75	857	2.94	75	36.00	914.5	1.38	35	28	1 1/4
	32	800	41.75	1060	36.00	914	3.19	81	38.50	978	1.62	41	28	1 1/2
	36	900	46.00	1168	40.25	1022	3.56	91	42.75	1086	1.62	41	32	1 1/2
300	40	1000	50.75	1289	44.25	1124	3.56	91	47.25	1200	1.62	41	36	1 1/2
	42	1050	53.00	1346	47.00	1194	3.81	97	49.50	1257.5	1.62	41	36	1 1/2
	48	1200	59.50	1511	53.50	1359	4.25	108	56.00	1422.5	1.62	41	44	1 1/2
	2	50	6.50	165	3.62	92	0.88	23	5.00	127	0.75	19	8	5/8
	2 1/2	65	7.50	190	4.12	105	1.00	26	5.88	149	0.88	22	8	3/4
	3	80	8.25	210	5.00	127	1.12	29	6.62	168.5	0.88	22	8	3/4
	4	100	10.00	254	6.19	157	1.25	32	7.88	200	0.88	22	8	3/4
	6	150	12.50	318	8.50	216	1.44	37	10.62	270	0.88	22	12	3/4
	8	200	15.00	381	10.62	270	1.62	42	13.00	330	1.00	25	12	7/8
	10	250	17.50	445	12.75	324	1.88	48	15.25	387.5	1.12	29	16	1
	12	300	20.50	521	15.00	381	2.00	51	17.75	451	1.25	32	16	1 1/8
	14	350	23.00	584	16.25	413	2.12	54	20.25	514.5	1.25	32	20	1 1/8
	16	400	25.50	648	18.50	470	2.25	58	22.50	571.5	1.38	35	20	1 1/4
	18	450	28.00	711	21.00	533	2.38	61	24.75	628.5	1.38	35	24	1 1/4
	20	500	30.50	775	23.00	584	2.50	64	27.00	686	1.38	35	24	1 1/4
	24	600	36.00	914	27.25	692	2.75	70	32.00	813	1.62	41	24	1 1/2
	26	650	38.25	972	29.50	749	3.12	80	34.50	876.5	1.75	45	28	1 5/8
	28	700	40.75	1035	31.50	800	3.38	86	37.00	940	1.75	45	28	1 5/8
	30	750	43.00	1092	33.75	857	3.62	92	39.25	997	1.88	48	28	1 3/4
	32	800	45.25	1149	36.00	914	3.88	98	41.50	1054	2.00	51	28	1 7/8
	36	900	50.00	1270	40.25	1022	4.12	105	46.00	1168.5	2.12	54	32	2

End Flange Dimensions:

Size 2"-24" to ASME B16.5, Size 26"-48" to ASME B16.47 A.

Tolerances: Unit inch

Thickness C:

NPS ≤ 18" +0.12, -0

NPS ≥ 20" +0.19, -0

Drilling and Facing:

Bolt Circle Diameter h: ± 0.06

Center to Center of Adjacent Bolt Holes: ± 0.03

Eccentricity Between Bolt Circle Diameter and Machined Facing Diameters:

NPS ≤ 2 1/2" ± 0.03

NPS ≥ 3" ± 0.06

Outside Diameter R:

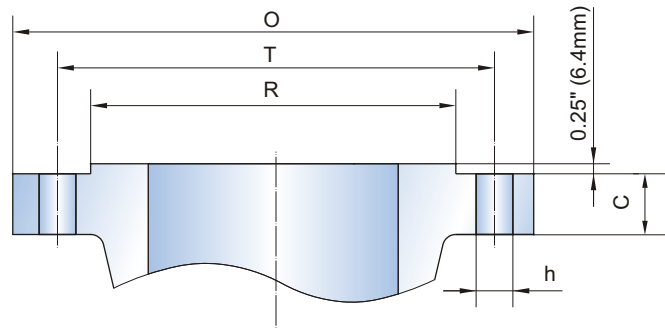
0.06 Raised Face: NPS 2"-24" ± 0.03

NPS ≥ 26" ± 0.08

0.25 Raised Face: NPS 2"-24" ± 0.02

NPS ≥ 26" ± 0.04

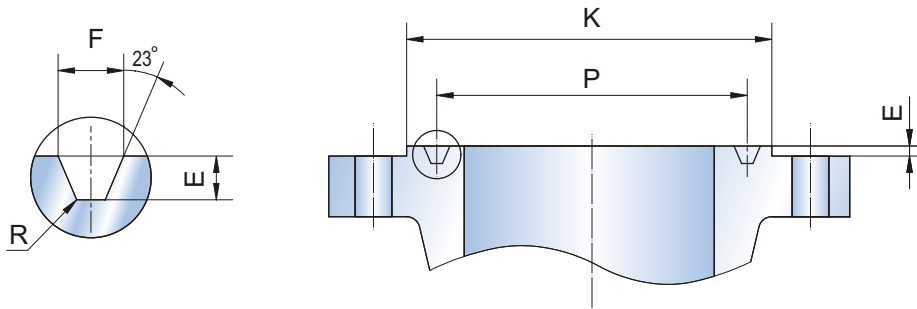
CLASS 600-2500 RF



CLASS	SIZE		O		R		C		T		h		Bolt	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	QTY.	Diameter
600	2	50	6.50	165	3.62	92	1.00	26	5.00	127	0.75	19	8	5/8
	2 1/2	65	7.50	190	4.12	105	1.12	29	5.88	149	0.88	22	8	3/4
	3	80	8.25	210	5.00	127	1.25	32	6.62	168	0.88	22	8	3/4
	4	100	10.75	273	6.19	157	1.50	38	8.50	216	1.00	25	8	7/8
	6	150	14.00	356	8.50	216	1.88	48	11.50	292	1.12	29	12	1
	8	200	16.50	419	10.62	270	2.19	56	13.75	349	1.25	32	12	1 1/8
	10	250	20.00	508	12.75	324	2.50	64	17.00	432	1.38	35	16	1 1/4
	12	300	22.00	559	15.00	381	2.62	67	19.25	489	1.38	35	20	1 1/4
	14	350	23.75	603	16.25	413	2.75	70	20.75	527	1.50	38	20	1 3/8
	16	400	27.00	686	18.50	470	3.00	77	23.75	603	1.62	41	20	1 1/2
	18	450	29.25	743	21.00	533	3.25	83	25.75	654	1.75	44	20	1 5/8
	20	500	32.00	813	23.00	584	3.50	89	28.50	724	1.75	44	24	1 5/8
	24	600	37.00	940	27.25	692	4.00	102	33.00	838	2.00	51	24	1 7/8
900	2	50	8.50	216	3.62	92	1.50	38.5	6.50	165.1	1.00	26	8	7/8
	2 1/2	65	9.62	244	4.12	105	1.62	41.5	7.50	190.5	1.12	29	8	1
	3	80	9.50	241	5.00	127	1.50	38.5	7.50	190.5	1.00	26	8	7/8
	4	100	11.50	292	6.19	157	1.75	44.5	9.25	234.9	1.25	32	8	1 1/8
	6	150	15.00	381	8.50	216	2.19	56.0	12.50	317.5	1.25	32	12	1 1/8
	8	200	18.50	470	10.62	270	2.50	63.5	15.50	393.7	1.50	39	12	1 3/8
	10	250	21.50	545	12.75	324	2.75	70.0	18.50	469.9	1.50	39	16	1 3/8
	12	300	24.00	610	15.00	381	3.12	79.5	21.00	533.4	1.50	39	20	1 3/8
	14	350	25.25	640	16.25	413	3.38	86.0	22.00	558.8	1.62	42	20	1 1/2
	16	400	27.75	705	18.50	470	3.50	89.0	24.25	615.9	1.75	45	20	1 5/8
	18	450	31.00	785	21.00	533	4.00	102.0	27.00	685.8	2.00	51	20	1 7/8
	20	500	33.75	855	23.00	584	4.25	108.0	29.50	749.3	2.12	54	20	2
	24	600	41.00	1040	27.25	692	5.50	140.0	35.50	901.7	2.62	67	20	2 1/2
1500	2	50	8.50	216	3.62	92	1.50	38.5	6.50	165.1	1.00	26	8	7/8
	2 1/2	65	9.62	244	4.12	105	1.62	41.5	7.50	190.5	1.12	29	8	1
	3	80	10.50	267	5.00	127	1.88	48.0	8.00	203.2	1.25	32	8	1 1/8
	4	100	12.25	311	6.19	157	2.12	54.0	9.50	241.3	1.38	35	8	1 1/4
	6	150	15.50	394	8.50	216	3.25	83.0	12.50	317.5	1.50	39	12	1 3/8
	8	200	19.00	483	10.62	270	3.62	92.9	15.50	393.7	1.75	45	12	1 5/8
	10	250	23.00	585	12.75	324	4.25	108.0	19.00	482.6	2.00	51	12	1 7/8
	12	300	26.50	675	15.00	381	4.88	124.0	22.50	571.5	2.12	54	16	2
	14	350	29.50	750	16.25	413	5.25	133.5	25.00	635.0	2.38	61	16	2 1/4
	16	400	32.50	825	18.50	470	5.75	146.5	27.75	704.8	2.62	67	16	2 1/2
	18	450	36.00	915	21.00	533	6.38	162.0	30.50	774.7	2.88	74	16	2 3/4
	20	500	38.75	985	23.00	584	7.00	178.0	32.75	831.8	3.12	80	16	3
	24	600	46.00	1170	27.25	692	8.00	203.5	39.00	990.6	3.62	93	16	3 1/2
2500	2	50	9.25	235	3.62	92	2.00	51.0	6.75	171.4	1.12	29	8	1
	2 1/2	65	10.50	267	4.12	105	2.25	57.5	7.75	196.8	1.25	32	8	1 1/8
	3	80	12.00	305	5.00	127	2.62	67.0	9.00	228.6	1.38	35	8	1 1/4
	4	100	14.00	356	6.19	157	3.00	76.5	10.75	273.0	1.62	42	8	1 1/2
	6	150	19.00	483	8.50	216	4.25	108.0	14.50	368.3	2.12	54	8	2
	8	200	21.75	550	10.62	270	5.00	127.0	17.25	438.1	2.12	54	12	2
	10	250	26.50	675	12.75	324	6.50	165.5	21.25	539.7	2.62	67	12	2 1/2
	12	300	30.00	760	15.00	381	7.25	184.5	24.38	619.1	2.88	74	12	2 3/4

End Flange Dimensions: ASME B16.5
Tolerances: the Same as Class 150 300

CLASS 150-2500 RTJ



CLASS	SIZE		Ring No.	P		E		F		R		K	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm
150	2	50	R22	3.250	82.55	0.250	6.35	0.344	8.74	0.03	0.8	4.00	102
	2 1/2	65	R25	4.000	101.60	0.250	6.35	0.344	8.74	0.03	0.8	4.75	121
	3	80	R29	4.500	114.30	0.250	6.35	0.344	8.74	0.03	0.8	5.25	133
	4	100	R36	5.875	149.22	0.250	6.35	0.344	8.74	0.03	0.8	6.75	171
	6	150	R43	7.625	193.68	0.250	6.35	0.344	8.74	0.03	0.8	8.62	219
	8	200	R48	9.750	247.65	0.250	6.35	0.344	8.74	0.03	0.8	10.75	273
	10	250	R52	12.000	304.80	0.250	6.35	0.344	8.74	0.03	0.8	13.00	330
	12	300	R56	15.000	381.00	0.250	6.35	0.344	8.74	0.03	0.8	16.00	406
	14	350	R59	15.625	396.88	0.250	6.35	0.344	8.74	0.03	0.8	16.75	425
	16	400	R64	17.875	454.02	0.250	6.35	0.344	8.74	0.03	0.8	19.00	483
	18	450	R68	20.375	517.52	0.250	6.35	0.344	8.74	0.03	0.8	21.50	546
	20	500	R72	22.000	558.80	0.250	6.35	0.344	8.74	0.03	0.8	23.50	597
	24	600	R76	26.500	673.10	0.250	6.35	0.344	8.74	0.03	0.8	28.00	711
300 600	2	50	R23	3.250	82.55	0.312	7.92	0.469	11.91	0.03	0.8	4.25	108
	2 1/2	65	R26	4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	5.00	127
	3	80	R31	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	5.75	146
	4	100	R37	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	6.88	175
	6	150	R45	8.312	211.13	0.312	7.92	0.469	11.91	0.03	0.8	9.50	241
	8	200	R49	10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	11.88	302
	10	250	R53	12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	14.00	356
	12	300	R57	15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	16.25	413
	14	350	R61	16.500	419.10	0.312	7.92	0.469	11.91	0.03	0.8	18.00	457
	16	400	R65	18.500	469.90	0.312	7.92	0.469	11.91	0.03	0.8	20.00	508
	18	450	R69	21.000	533.40	0.312	7.92	0.469	11.91	0.03	0.8	22.62	575
	20	500	R73	23.000	584.20	0.375	9.52	0.531	13.49	0.06	1.5	25.00	635
	24	600	R77	27.250	692.15	0.438	11.13	0.656	16.66	0.06	1.5	29.50	749
	26	650	R93	29.500	749.30	0.500	12.7	0.781	19.84	0.06	1.5	31.88	861
	28	700	R94	31.500	800.10	0.500	12.7	0.781	19.84	0.06	1.5	33.88	861
	30	750	R95	33.750	857.25	0.500	12.7	0.781	19.84	0.06	1.5	36.12	917
	32	800	R96	36.000	914.40	0.562	14.27	0.906	23.01	0.06	1.5	38.75	984
	36	900	R98	40.250	1022.35	0.562	14.27	0.906	23.01	0.06	1.5	43.00	1092

CLASS	SIZE		Ring No.	P		E		F		R		K	
	in	mm		in	mm	in	mm	in	mm	in	mm	in	mm
900	2	50	R24	3.750	95.25	0.312	7.92	0.469	11.91	0.03	0.8	4.88	124
	2 1/2	65	R27	4.250	107.95	0.312	7.92	0.469	11.91	0.03	0.8	5.38	137
	3	80	R31	4.875	123.82	0.312	7.92	0.469	11.91	0.03	0.8	6.12	156
	4	100	R37	5.875	149.22	0.312	7.92	0.469	11.91	0.03	0.8	7.12	181
	6	150	R45	8.312	211.12	0.312	7.92	0.469	11.91	0.03	0.8	9.50	241
	8	200	R49	10.625	269.88	0.312	7.92	0.469	11.91	0.03	0.8	12.12	308
	10	250	R53	12.750	323.85	0.312	7.92	0.469	11.91	0.03	0.8	14.25	362
	12	300	R57	15.000	381.00	0.312	7.92	0.469	11.91	0.03	0.8	16.50	419
	14	350	R62	16.500	419.10	0.438	11.13	0.656	16.66	0.06	1.5	18.38	467
	16	400	R66	18.500	469.90	0.438	11.13	0.656	16.66	0.06	1.5	20.62	524
	18	450	R70	21.000	533.40	0.500	12.7	0.781	19.84	0.06	1.5	23.38	594
	20	500	R74	23.000	584.20	0.500	12.7	0.781	19.84	0.06	1.5	25.50	648
	24	600	R78	27.250	692.15	0.625	15.88	1.062	26.97	0.09	2.3	30.38	772
1500	2	50	R24	3.750	95.25	0.312	7.92	0.469	11.91	0.03	0.8	4.88	124
	2 1/2	65	R27	4.250	107.95	0.312	7.92	0.469	11.91	0.03	0.8	5.38	137
	3	80	R35	5.375	136.52	0.312	7.92	0.469	11.91	0.03	0.8	6.62	168
	4	100	R39	6.375	161.92	0.312	7.92	0.469	11.91	0.03	0.8	7.62	194
	6	150	R46	8.312	211.12	0.375	9.52	0.531	13.49	0.06	1.5	9.75	248
	8	200	R50	10.625	269.88	0.438	11.13	0.656	16.66	0.06	1.5	12.50	318
	10	250	R54	12.750	323.85	0.438	11.13	0.656	16.66	0.06	1.5	14.62	371
	12	300	R58	15.000	381.00	0.562	14.27	0.906	23.01	0.06	1.5	17.25	438
	14	350	R63	16.500	419.10	0.625	15.88	1.062	26.97	0.09	2.3	19.25	489
	16	400	R67	18.500	469.90	0.688	17.48	1.188	30.18	0.09	2.3	21.50	546
	18	450	R71	21.000	533.40	0.688	17.48	1.188	30.18	0.09	2.3	24.12	613
	20	500	R75	23.000	584.20	0.688	17.48	1.312	33.32	0.09	2.3	26.50	673
	24	600	R79	27.250	692.15	0.812	20.62	1.438	36.53	0.09	2.3	31.25	794
2500	2	50	R26	4.000	101.60	0.312	7.92	0.469	11.91	0.03	0.8	5.25	133
	2 1/2	65	R28	4.375	111.12	0.375	9.52	0.531	13.49	0.03	0.8	5.88	149
	3	80	R32	5.000	127.00	0.375	9.52	0.531	13.49	0.06	1.5	6.62	168
	4	100	R38	6.188	157.18	0.438	11.13	0.656	16.66	0.06	1.5	8.00	203
	6	150	R47	9.000	228.60	0.500	12.70	0.781	19.84	0.06	1.5	11.00	279
	8	200	R51	11.000	279.40	0.562	14.27	0.906	23.01	0.06	1.5	13.38	340
	10	250	R55	13.500	342.90	0.688	17.48	1.188	30.18	0.09	2.3	16.75	425
	12	300	R60	16.000	406.40	0.688	17.48	1.312	33.32	0.09	2.3	19.50	495

End Flange Dimensions:

Size 2"-24" to ASME B16.5, Size 26"-36" to ASME B16.47 A .

Tolerances: Unit inch

Depth E: + 0.016, -0

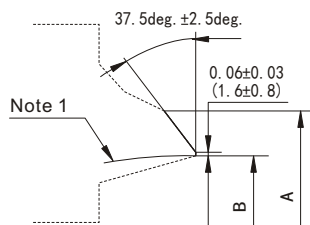
Width F: ± 0.008

Pith Diameter P: ± 0.005

Radius at Bottom R: $R \leq 0.06$ +0.03, -0

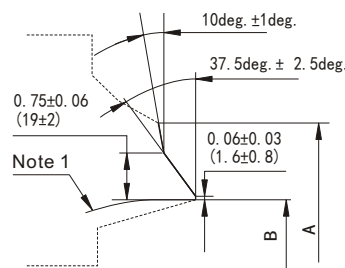
$R > 0.06$ ± 0.03

Angle 23 Deg.: ± 0.5 Deg.



Note 1 Internal surface may be as formed or machined for dimension B at root face. Contour within the envelope shall be in accordance with section.

Wall Thickness not Over 0.88in (22mm)
Welding End Detail for Joint Without Backing Ring



Wall Thickness Over 0.88in (22mm)
Welding End Detail for Joint Without Backing Ring

Nominal Pipe Size		Schedule No. [Note(1)]	O.D. at Welding Ends				B		C [Note(3)]		t	
			Wrought or Fabricated Components, A [Note(1)]		Cast Steel Valves, A [Note(2)]							
DN	NPS		mm	in	mm	in	mm	in	mm	in	mm	in
65	2 1/2	40	73.0	2.88	75	2.96	62.5	2.469	62.93	2.479	5.16	0.203
		80					59	2.323	59.69	2.351	7.01	0.276
		160					54	2.125	55.28	2.178	9.53	0.375
		XXS					45	1.771	47.43	1.868	14.02	0.552
80	3	40	88.9	3.50	91	3.59	78	3.068	78.25	3.081	5.49	0.216
		80					73.5	2.900	74.53	2.934	7.62	0.300
		160					66.5	2.624	68.38	2.692	11.13	0.438
		XXS					58.5	2.300	61.19	2.409	15.24	0.600
90	3 1/2	40	101.6	4.00	105	4.12	90	3.548	90.52	3.564	5.74	0.226
		80					85.5	3.364	86.42	3.402	8.08	0.318
100	4	40	114.3	4.50	117	4.62	102	4.026	102.73	4.044	6.02	0.237
		80					97	3.826	98.28	3.869	8.56	0.337
		120					92	3.624	93.78	3.692	11.13	0.438
		160					87.5	3.438	89.65	3.530	13.49	0.531
		XXS					80	3.152	83.30	3.279	17.12	0.674
125	5	40	141.3	5.56	144	5.69	128	5.047	128.80	5.070	6.55	0.258
		80					122	4.813	123.58	4.866	9.53	0.375
		120					116	4.563	118.04	4.647	12.70	0.500
		160					109.5	4.313	112.47	4.428	15.88	0.625
		XXS					103	4.063	106.92	4.209	19.05	0.750
150	6	40	168.3	6.62	172	6.78	154	6.065	154.82	6.094	7.11	0.280
		80					146.5	5.761	148.06	5.828	10.97	0.432
		120					140	5.501	142.29	5.600	14.27	0.562
		160					132	5.187	135.31	5.326	18.26	0.719
		XXS					124.5	4.897	128.85	5.072	21.95	0.864
200	8	40	219.1	8.62	223	8.78	203	7.981	203.75	8.020	8.18	0.322
		60					198.5	7.813	200.02	7.873	10.31	0.406
		80					193.5	7.625	195.84	7.709	12.70	0.500
		100					189	7.437	191.65	7.544	15.09	0.594
		120					182.5	7.187	186.11	7.326	18.26	0.719
		140					178	7.001	181.98	7.163	20.62	0.812
		XXS					174.5	6.875	179.16	7.053	22.23	0.875
		160					173	6.813	177.79	6.998	23.01	0.906
250	10	40	273.0	10.75	278	10.94	254.5	10.020	255.74	10.070	9.27	0.365
		60					247.5	9.750	249.74	9.834	12.70	0.500
		80					243	9.562	245.55	9.670	15.09	0.594
		100					236.5	9.312	240.01	9.451	18.26	0.719
		120					230	9.062	234.44	9.232	21.44	0.844
		140					222	8.750	227.51	8.959	25.40	1.000
		160					216	8.500	221.95	8.740	28.58	1.125
300	12	STD	323.8	12.75	329	12.97	305	12.000	306.08	12.053	9.53	0.375
		40					303	11.938	304.72	11.999	10.31	0.406
		XS					298.5	11.750	300.54	11.834	12.70	0.500
		60					295	11.626	297.79	11.725	14.27	0.562
		80					289	11.374	292.17	11.505	17.48	0.688
		100					281	11.062	285.24	11.232	21.44	0.844
		120					273	10.750	278.31	10.959	25.40	1.000
		140					266.5	10.500	272.75	10.740	28.58	1.125
		160					257	10.126	264.45	10.413	33.32	1.312
350	14	STD	355.6	14.00	362	14.25	336.5	13.250	337.88	13.303	9.53	0.375
		40					333.5	13.124	335.08	13.192	11.13	0.438
		XS					330	13.000	332.34	13.084	12.70	0.500
		60					325.5	12.812	328.15	12.920	15.09	0.594
		80					317.5	12.500	321.22	12.646	19.05	0.750
		100					308	12.124	312.86	12.318	23.83	0.938
		120					300	11.812	305.93	12.044	27.79	1.094
		140					292	11.500	299.00	11.771	31.75	1.250
		160					284	11.188	292.07	11.498	35.71	1.406

Nominal Pipe Size		Schedule No. [Note(1)]	O.D. at Welding Ends				B		C [Note(3)]		t	
			Wrought or Fabricated Components, A [Note(1)]		Cast Steel Valves, A [Note(2)]							
DN	NPS		mm	in	mm	in	mm	in	mm	in	mm	in
400	16	STD	406.4	16.00	413	16.25	387.5	15.250	388.68	15.303	9.53	0.375
		40					381	15.000	383.14	15.084	12.70	0.500
		60					373	14.688	376.21	14.811	16.66	0.656
		80					363.5	14.312	367.84	14.482	21.44	0.844
		100					354	13.938	359.53	14.155	26.19	1.031
		120					344.5	13.562	351.18	13.826	30.96	1.219
		140					333.5	13.124	341.43	13.422	36.53	1.438
		160					325.5	12.812	334.50	13.170	40.49	1.594
450	18	STD	457.2	18.00	464	18.28	438	17.250	439.48	17.303	9.53	0.375
		XS					432	17.000	433.94	17.084	12.70	0.500
		40					428.5	16.876	431.19	16.975	14.27	0.562
		60					419	16.500	422.82	16.646	19.05	0.750
		80					409.5	16.124	414.46	16.318	23.83	0.938
		100					398.5	15.688	404.78	15.936	29.36	1.156
		120					387.5	15.250	395.03	15.553	34.93	1.375
		140					378	14.876	386.77	15.225	39.67	1.562
500	20	STD	508.0	20.00	516	20.31	489	19.250	490.28	19.303	9.53	0.375
		XS					482.5	19.000	484.74	19.084	12.70	0.500
		40					478	18.812	480.55	18.920	15.09	0.594
		60					467	18.376	470.88	18.538	20.62	0.812
		80					455.5	17.938	461.13	18.155	26.19	1.031
		100					443	17.438	450.02	17.717	32.54	1.281
		120					432	17.000	440.29	17.334	38.10	1.500
		140					419	16.500	429.17	16.896	44.45	1.750
550	22	STD	558.8	22.00	567	22.34	539	21.250	541.08	21.303	9.53	0.375
		XS					533	21.000	535.54	21.084	12.70	0.500
		60					514	20.250	518.86	20.428	22.23	0.875
		80					501	19.750	507.75	19.990	28.58	1.125
		100					488.5	19.250	496.63	19.553	34.93	1.375
		120					476	18.750	485.52	19.115	41.28	1.625
		140					463	18.250	474.41	18.678	47.63	1.875
		160					450.5	17.750	463.30	18.240	53.98	2.125
600	24	STD	609.6	24.00	619	24.38	590.5	23.250	591.88	23.303	9.53	0.375
		XS					584	23.000	586.34	23.084	12.70	0.500
		30					581	22.876	583.59	22.975	14.27	0.562
		40					574.5	22.624	577.97	22.755	17.48	0.688
		60					560.5	22.062	565.49	22.263	24.61	0.969
		80					547.5	21.562	554.38	21.826	30.96	1.219
		100					532	20.938	540.49	21.280	38.89	1.531
		120					517.5	20.376	528.03	20.788	46.02	1.812
650	26	10	660.4	26.00	670	26.38	645.5	25.376	645.50	25.413	7.92	0.312
		20					635	25.000	637.14	25.084	12.70	0.500
700	28	10	711.2	28.00	721	28.38	695.5	27.376	696.30	27.413	7.92	0.312
		20					686	27.000	687.94	27.084	12.70	0.500
		30					679.5	26.750	682.37	26.865	15.88	0.625
750	30	10	762.0	30.00	772	30.38	746	29.376	747.10	29.413	7.92	0.312
		20					736.5	29.000	738.74	29.084	12.70	0.500
		30					730	28.750	733.17	28.865	15.88	0.625
800	32	10	812.8	32.00	825	32.50	797	31.376	797.90	31.413	7.92	0.312
		20					787.5	31.000	789.54	31.084	12.70	0.500
		30					781	30.750	783.97	30.865	15.88	0.625
		40					778	30.624	781.17	30.755	17.48	0.688
850	34	10	863.6	34.00	876	34.50	848	33.376	848.70	33.413	7.92	0.312
		20					838	33.000	840.34	33.084	12.70	0.500
		30					832	32.750	834.77	32.865	15.88	0.625
		40					828.5	32.624	831.97	32.755	17.48	0.688
900	36	10	914.4	36.00	927	36.50	898.5	35.376	899.50	35.413	7.92	0.312
		20					889	35.000	891.14	35.084	12.70	0.500
		30					882.5	34.750	885.57	34.865	15.88	0.625
		40					876.5	34.500	880.02	34.646	19.05	0.750

NOTES:

(1) Letter designations signify

(a) STD = standard wall thickness

(b) XS = extra-strong wall thickness

(c) XXS = double extra-strong wall thickness

(2) The diameters listed are not requirements. They are provided for the convenience of the user.

(3) Internal machining for continuous backing rings for sizes DN 50 (NPS 2) and smaller is not contemplated.



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of



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