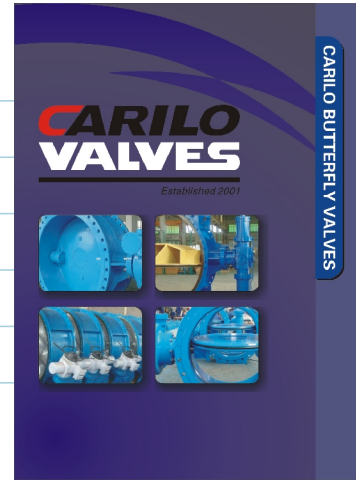
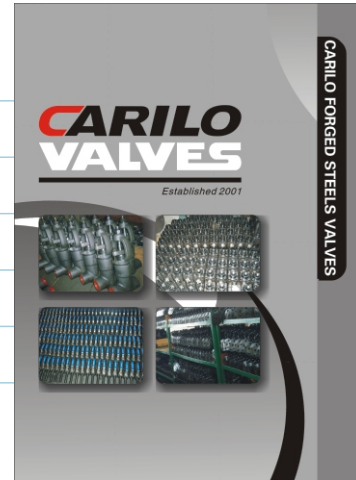


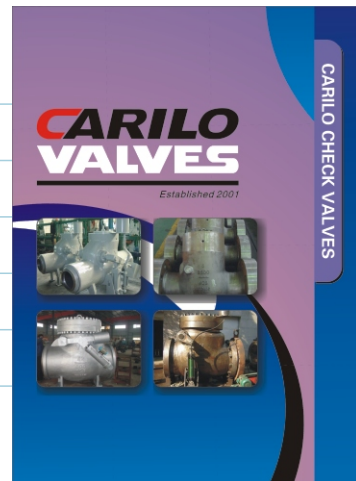
GLOBE VALVES



BUTTERFLY VALVES



FORGED STEELS VALVES



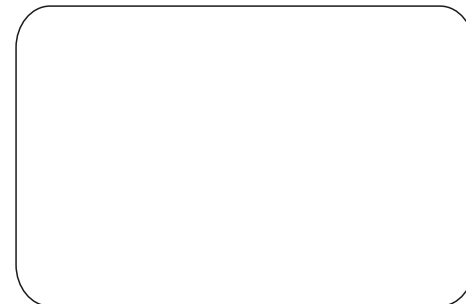
CHECK VALVES



BALL VALVES

CARILLO
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CARILLO VALVES

Established 2001



CARILLO GATE VALVES

API Gate Valve

API Gate Valve

Standards

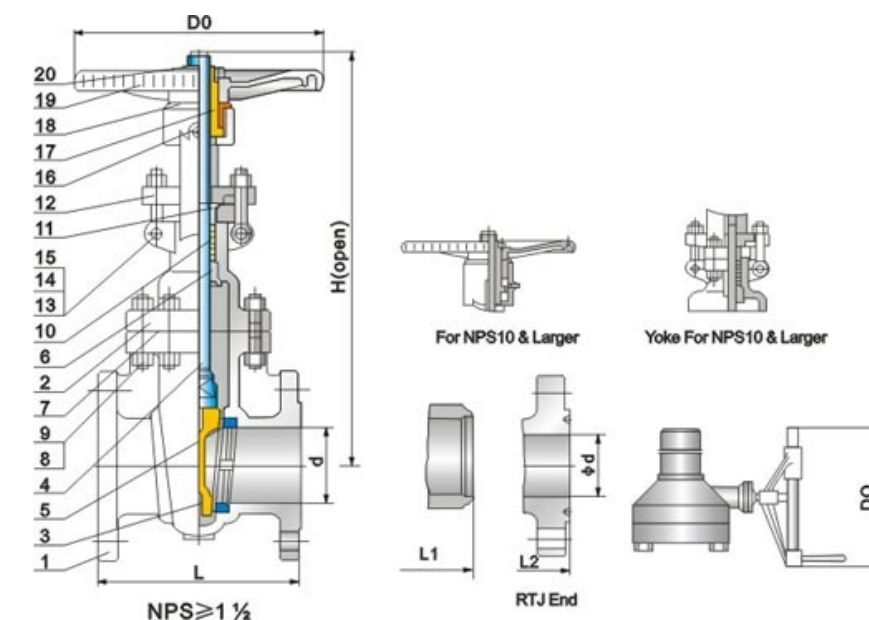
- Design and manufacture as API600,ANSI B16.34
- Face to face dimensions as ANSI B16.10
- End flange dimension as per ANSI B16.5
- Pressure-temperature ratings as ANSI B16.34
- Pressure test as API 598

Test Pressure

Test Item		Shell Test		Seal Test		Back Seal Test		Air Seal Test	
Medium		Water						Air	
Unit		MPa	lbf/in ²	MPa	lbf/in ²	MPa	lbf/in ²	MPa	lbf/in ²
Pressure (Class)	150	3.1	450	2.2	315	2.2	315	0.5-0.7	60-100
	300	7.8	1125	5.6	815	5.6	815		
	400	10.3	1500	7.6	1100	7.6	1100		
	600	15.3	2225	11.2	1630	11.2	1630		
	900	23.1	3350	16.8	2440	16.8	2440		
	1500	38.4	5575	28.1	4080	28.1	4080		

Materials for Main Parts

Name	Material									
Body Bonnet Wedge	A216 WCB	A352 LCB	A217 WC6	A217 WC9	A217 C5	A351 CF8	A351 CF8M	A351 CF3	A351 CF3M	
Stem	A182 F6	A182 F304				A182 F316	A182 F304L	A351 CF3M		
Stem Nut	ZcuAl10Fe3 Bronze									
Handwheel	KTH350-10									
Bonnet Bolt	A193-B7 A320-L7 A193-B8									
Nut	A194-2H A194-7 A194-8									



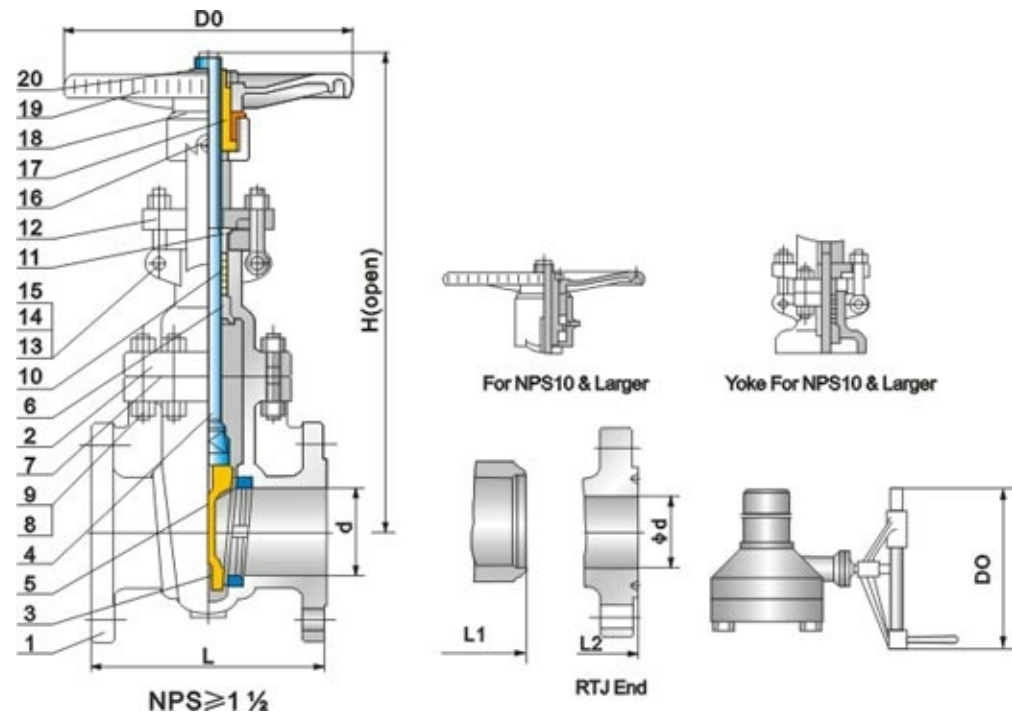
Parts and Material List

Parts No .	Parts Name	Materials				
		WCB/Trim1	WCB/Trim5	WCB/Trim8	CF8/304	CF8M/316
1	Body	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
2	Gasket	Soft iron+Graphite or 304+Graphite			304+Graphite	316+Graphite
3	Seat ring	A105+13Cr	A105+STL	A105+STL	ASTM A351 CF8	ASTM A351 CF8M
4	Gate	ASTM A216 WCB+13Cr	ASTM A216WCB+STL	ASTM A216 WCB+13Cr	ASTM A351 CF8	ASTM A351 CF8M
5	Stem	ASTM A182 F6a			ASTM A182 F304	AST A182 F316
6	Backseat bushing	ASTM A182 F6a			ASTM A351 CF8	ASTM A351 CF8M
7	Packing	Graphite			Graphite	Graphite
8	Gland	ASTM A182 F6a			ASTM A182 F304	ASTM A182 F316
9	Gland eyebolt	ASTM A193 B7			ASTM A193 B8	ASTM A193 B8M
10	Eyebolt nut	ASTM A194 2H			ASTM A193 8	ASTM A194 8M
11	Eyebolt pin	ASTM A36			304SS	316ss
12	Gland flange	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
13	Bonnet bolt	AST A193 B7			ASTM A193 B8	ASTM A193 B8M
14	Bonnet nut	ASTM A194 2H			ASTM A194 8	ASTM A194 8M
15	Bonnet	ASTM A216 WCB			ASTM A351 CF8	ASTM A351 CF8M
16	Nipple	Carbon steel			Carbon steel	Carbon steel
17	Stem nut	ASTM A439 D2			ASTM A439 D2	ASTM A439 D2
18	Yoke sleeve nut	Carbon steel			Carbon steel	Carbon steel
19	Hand wheel	Ductile iron			Ductile iron	Ductile iron
20	Hand wheelnut	Carbon steel			Carbon steel	Carbon steel
21	Set screw	ASTM A193 B7			ASTM A193 B7	ASTM A193 B7

Note: The chart above only lists out some common composition of steel check valve parts. We may provide other different parts material composition according to the customer's request or the actual valve working condition.

API Gate Valve

API Gate Valve



Materials of parts

No.	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	Carbon Steel
1	Body	216-WCB	A217-WC6	A352-LCB
2	Bonnet	A21-WCB	A217-WC6	A352-LCB
3	Wedge	A216-WCB+CR13	A217-WC6+HF	A352-LCB+CR13
4	Stem	A182-F6a	CR-MO-V	A182-F6a
5	Seat Ring	A105+CR13	A182-F11+HF	A350-LF2+CR13
6	Stem Back Seat	A276-420	A276-304	A276-420
7	Bonnet Gasket	Spiral Wound (Graphite+304)		
8	Bonnet Stud	A193-B7	A193-B16	A320-L7
9	Bonnet Stud Nut	A194-2H	A194-7	A194-4
10	Packing	Graphite		
11	Gland	A276-420	A276-304	A276-420
12	Gland Flange	A216-WCB	A217-WC6	A352-LCB
13	Eyebolt Pin	Carbon Steel	A276-420	Carbon Steel
14	Eyebolt	Carbon Steel	A193-B7	Carbon Steel
15	Eyebolt Nut	Carbon Steel	A194-2H	Carbon Steel
16	Grease Fitting	Brass+Steel		
17	Yokesleeve	Aluminum-Bronze ¹⁾		
18	Yokesleeve Jam Nut	Carbon Steel		
19	Handwheel	Malleable Iron		
20	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional
2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

Dimensions data

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
ANSI Class 150Lb																						
L(RF)	in	7.00	7.50	8.00	9.00	10.50	11.50	13.00	14.00	15.00	16.00	17.00	18.00	20.00	22.00	24.00	24.00	28.00	28.00	32.00	32.00	42.00
	mm	178	191	203	229	267	292	330	356	381	408	432	457	508	559	610	610	711	711	813	813	1067
L1(BW)	in	8.5	9.50	11.12	12.00	15.88	16.50	18.00	19.75	22.50	24.00	26.00	28.00	32.00	34.00	36.00	36.00	38.00	40.00	42.00	45.00	53.97
	mm	216	241	283	305	403	419	457	502	572	610	660	711	813	864	914	914	965	1016	1067	1143	1371
L2(RTJ)	in	7.48	7.99	8.50	9.48	10.98	12.00	13.50	14.48	15.51	16.49	17.51	18.50	20.51	-	-	24.48	-	28.50	-	-	-
	mm	190	203	216	241	279	305	343	368	394	419	445	470	521	-	-	622	-	724	-	-	-
H(Open)	in	15.25	17.00	18.88	23.00	30.50	37.62	45.50	53.12	59.38	67.00	74.50	83.50	98.25	110.50	116.50	124.00	129.00	146.50	130.00	136.96	161.70
	mm	386	434	480	584	765	956	1149	1350	1508	1703	1892	2119	2500	2806	2960	3150	3280	3720	3302	3479	3962
(d)	in	50	63	76	100	150	200	250	300	336	387	438	488	590	641	692	743	781	876	-	-	-
	mm	8	8	10	12	12	14	16	18	20	22	24	26	29	29	32	32	38	40	40.15	40.15	40.15
D0	in	200	200	250	300	300	350	400	450	500	550	600	640	720	720	800	800	950	1000	1020	1020	1020
	mm	18	25	32	50	77	121	178	265	363	483	621	792	1190	1521	1838	2261	2490	3310	4650	5100	6500
WT(Kg)	in	15	18	26	41	69	108	158	248	330	424	587	752	1144	1570	1900	3310	2540	3380	-	-	-
	mm	13	13	15	27	36	63	84	131	151	235	285	341	602	-	-	1079	-	1497	-	-	-
Toqure	mm	13	13	15	27	36	63	84	131	151	235	285	341	602	-	-	1079	-	1497	-	-	-

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
ANSI Class 300Lb																						
L/L1 (RF/BW)	in	8.50	9.50	11.12	12.00	15.88	16.50	18.00	19.75	30.00	33.00	36.00	39.00	45.00	49.00	53.00	55.00	60.00	68.00	76.96	80.00	90.00
	mm	216	241	283	305	403	419	457	502	762	838	914	991	1143	1245	1346	1397	1524	1727	1955	2032	2286
L2(RTJ)	in	9.12	10.12	11.75	12.62	16.50	17.12	18.62	20.38	30.62	33.82	36.62	39.75	45.88	50.00	54.00	56.00	61.12	69.12	-	-	-
	mm	232	257	298	321	419	435	473	518	778	854	930	1010	1165	1270	1372	1422	1553	1756	-	-	-
H(Open)	in	16.12	17.88	20.00	24.00	31.75	39.38	47.62	55.75	62.25	67.88	77.12	86.38	102.00	117.00	122.00	126.00	130.00	152.00	146.18	154.17	177.20
	mm	410	453	509	612	805	1000	1210	1415	1580	1725	1960	2195	2590	2975	3100	3200	3300	3860	3713	3916	4501
(d)	in	50	63	76	100	150	200	250	300	338	387	431	482	584	635	686	737	781	876	-	-	-
	mm	8	8	10	12	14	16	18	20	22	22	24	26	29	29	32	32	38	40	28.34	28.34	28.34
D0	in	200	200	250	300	350	400	450	500	550	600	640	720	720	800	800	950	1000	1000	1020	1020	1020
	mm	23	35	50	71	144	209	322	482	683	950	1145	1635	2660	3090	3310	3595	3720	3965	8100	9750	13050
WT(Kg)	in	17	26	39	53	113	164	256	390	565	805	985	1410	2305	2540	2725	3055	3380	3630	-	-	-
	mm	16	18	21	42	86	128	215	289	423	537	649	1009	1451	-	-	3140	-	4239	-	-	-
Toqure	mm	16	18	21	42	86	128	215	289	423	537	649	1009	1451	-	-	3140	-	4239	-	-	-

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36	40	42	48
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900	1000	1050	1200
ANSI Class 600Lb																						
L/L1 (RF/BW)	in	11.50	13.00	14.00	17.00	22.00	26.00	31.00	33.00	35.00	39.00	43.00	47.00	55.00	57.00	61.00	65.00	70.00	82.00	84.60	88.97	105.00
	mm	292	330	358	432	559	660	787	838	889	991	1092	1194	1397	1448	1549	1651	1778	2083	2149	2260	2667
L2(RTJ)	in	11.62	13.12	14.12	17.12	22.12	26.12	31.12	33.12	35.12	39.12	43.12	47.25	55.38	57.50	61.50	65.50	70.62	82.62	-	-	-
	mm	295	333	359	435	562	664	791	841	892	994	1095	1200	1407	1461	1562	1664	1794	2099	-	-	-
H(Open)	in	16.50	18.75	20.38	25.50	33.00	40.38	48.38	57.00	62.00	70.62	76.00	87.00	101.50	105.00	109.50	114.00	124.00	140.00	141.73	155.5	181.10
	mm	418	476	518	646	840	1025	1230	1450	1575	1795	1930	2210	2580	2665	2780	2895	3150	3560	3600	3950	4600
(d)	in	50	63	76	100	150	199	247	298	326	374	419	463	558	603	648	695	781	876	-	-	-
	mm	8	10	10	12	18	20	24	24	24	24	26	26	29	29	32	32	38	40	28.34	28.34	28.34
D0	in	200	250	250	300	450	500	600	600	600	600	640	640	720	720	800	800	950	1000	1000	1020	1020
	mm	36	52	67	112	170	393	610	890	1245	1530	1965	2450	2995	3475	3725	4045	4185	4480	14300	16400	22900
WT(Kg)	in	29	42	53	83	125	310	472	730	1055	1240	1625	2030	2590	2855	3065	3440	3780	4085	-	-	-
	mm	23	-	50	68	183	270	479	650	988	1243	1512	2185	3053	-	-	5452	-	7675	-	-	-
Toqure	mm	23	-	50	68	183	270	479	650	988	1243	1512	2185	3053	-	-	5452	-	7675	-	-	-

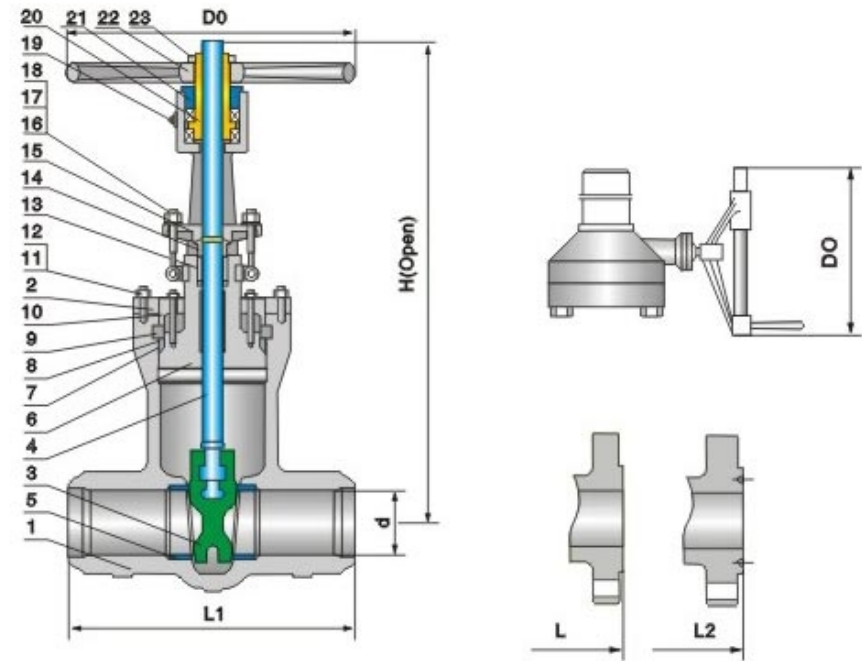
NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600
ANSI Class 900Lb														
L/L1 (RF/BW)	in	14.50	16.50	15.50	18.00</									

API Gate Valve

API Gate Valve

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Materials of parts

No.	Part Name	ASTM Material		
		Carbon Steel	1 1/4Cr-1/2Mo	18Cr-9Ni-2Mo
1	Body	216-WCB	A217-WC6	A351-CF8M
2	Yoke	A21-WCB	A217-WC6	A351-CF8M
3	Wedge	A216-WCB+HF	A217-WC6+HF	A351-CF8M+HF
4	Stem	A182-F6a	CR-MO-V	A182-316
5	Seat Ring	A105+HF	A182-F11+HF	A240-316+HF
6	Bonnet	A105	A182-F11	A240-316
7	Bonnet Gasket ¹⁾	304+Graphite		
8	Adapter Ring	Carbon Steel	A276-420	A276-316
9	Retainer	Carbon Steel	A276-420	A276-316
10	Yoke Cap	Carbon Steel	Alloy Steel	Stainless Steel
11	Bonnet Stud	A193-B7	A193-B16	A193-B8M
12	Bonnet Stud Nut	A194-2H	A194-7	A194-8M
13	Packing	Graphite		
14	Gland	A276-420	A276-304	A276-316L
15	Gland Flange	A216-WCB	A217-WC6	A351-CF8M
16	Eyebolt Pin	Carbon Steel	A276-420	A276-316
17	Eyebolt	Carbon Steel	A193-B7	A193-B8
18	Eyebolt Nut	Carbon Steel	A194-2H	A194-8
19	Grease Fitting	Brass+Steel		
20	Yokesleeve	Aluminum-Bronze ¹⁾		
21	Yokesleeve Jam Nut	Carbon Steel		
22	Handwheel	Malleable Iron		
23	Handwheel Nut	Carbon Steel		

Note: 1). Ductile Ni-Resist optional
 2). Wedge and seat ring may either be solid facing material or a base material equal to or better than the body/bonnet material with facing as shown.

Dimensions data

NPS	in	2	2 1/2	3	4	6	8	10	12	14	16	18	20	24	26	28	30	32	36
DN	mm	50	65	80	100	150	200	250	300	350	400	450	500	600	650	700	750	800	900
ANSI Class 1500Lb																			
L1(BW)	in	8.50	10.00	12.00	16.00	22.00	28.00	34.00	39.00	42.00	47.00	52.99	57.99	76.49	80.00	86.96	90.00	95.00	100.98
	mm	216	254	305	406	559	711	864	991	1067	1194	1348	1473	1943	2033	2209	2286	2413	2565
L(RF)	in	14.50	16.50	18.50	21.50	27.75	32.75	39.00	44.50	49.50	54.50	60.51	65.51	76.49	80.00	86.96	90.00	95.00	100.98
	mm	368	419	470	546	705	832	991	1130	1257	1384	1537	1664	1943	2033	2209	2286	2413	2565
L2(RTJ)	in	14.62	16.62	18.62	21.62	28.00	33.12	39.38	45.12	50.25	55.38	61.37	66.37	77.63	-	-	-	-	-
	mm	371	422	473	549	711	841	1000	1146	1276	1407	1559	1686	1972	-	-	-	-	-
H(Open)	in	17.62	17.62	21.62	25.25	33.5	38.62	46.5	62.25	70.5	78	86.96	93.97	110.00	121.96	133.97	147.48	120.00	127.99
	mm	448	448	550	640	850	980	1180	1580	1790	1980	2209	2387	2794	3098	3403	3746	3048	3251
D0	in	14	14	14	18	24	28	34	34	34	34	33.85	33.85	33.85	40.15	40.15	40.15	-	-
	mm	350	350	350	450	600	700	850	850	850	850	860	860	860	1020	1020	1020	-	-
WT(Kg)	BW	39	45	55	77	175	323	540	795	1115	1558	4000	4800	7500	8900	10000	13500	16000	18900
	RF/RTJ	69	80	95	123	283	481	795	1148	1626	2195	5225	6310	9050	9934	11174	14852	17443	21246

NPS	in	2	2 1/2	3	4	6	8	10	12
DN	mm	50	65	80	100	150	200	250	300
ANSI Class 2500Lb									
L/L1 (RF/BW)	in	17.76	20.00	22.75	26.50	36.00	40.25	50.00	56.00
	mm	451	508	578	673	914	1022	1270	1422
L2(RTJ)	in	17.88	20.50	23.00	26.88	36.50	40.88	50.88	56.88
	mm	454	514	584	683	927	1038	1292	1445
H(Open)	in	24.88	29.00	35.00	41.50	57.00	63.38	81.75	89.75
	mm	631	736	890	1055	1450	1610	2075	2280
(d)	mm	38	47	57	72	111	146	184	218
D0	in	12	18	20	20	24	24	24	24
	mm	300	450	500	500	600	600	600	600
WT(Kg)	RF/RTJ	155	210	310	580	1600	2450	4570	7150
	BW	124	160	245	460	1310	2010	3800	6000