

VALVES WORKING WELL ON LINE AT CUSTOMER PLACE FOR OVER 11 YEARS



Sri Ranganathar Valves (P) Ltd.

Quality flow in every valve



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SWING CHECK VALVES

ISO 9001 : 2015 | PED | API 6D CERTIFIED

SWING CHECK VALVES

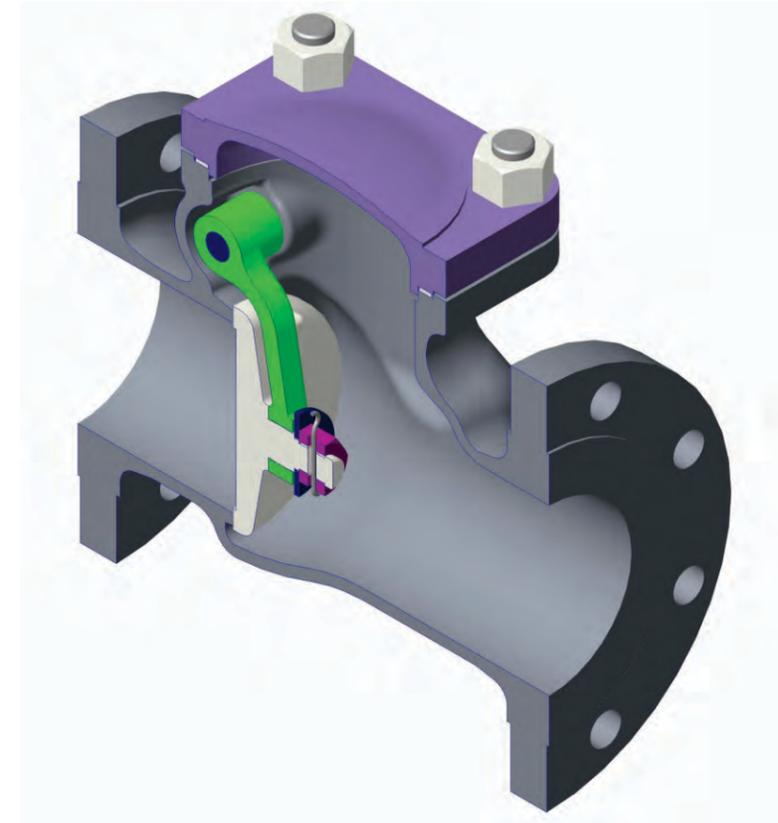
- MEETS MSS SP 42 & ASME B16.34.
- API 6D, API 594 & BS 1865 DESIGN ALSO AVAILABLE.
- FULL BORE.
- ENCAPSULATED GASKET.
- INTEGRAL BODY SEA, HARD FACED INTEGRAL BODY SEAT AND WELDED RENEWABLE SEAT AVAILABLE.

- TWO PIECE DISC FOR BETTER ALIGNMENT WITH BODY SEAT.
- ALL GRADES OF ASTM A216, A217, A351, A352, A494 & A995 AVAILABLE
- MIRROR LAPPED DISC AND BODY SEAT TO MEET API 598 AND API 6D SEAT LEAK CLAUSE.
- WORKING ALL OVER THE WORLD FOR THE PAST 11 YEARS

MADE TO DIFFERENT BRANDS, MATERIALS AND END CONNECTIONS



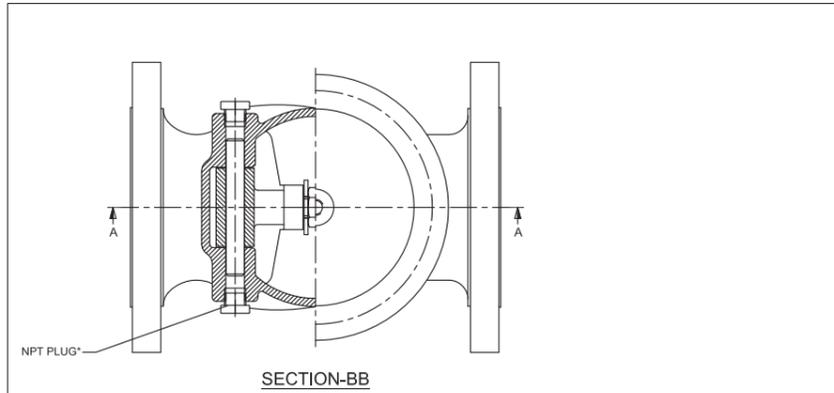
SOLID MODEL OF SWING CHECK VALVES



EXPLODED VIEW OF SWING CHECK VALVES



GENERAL ASSEMBLY

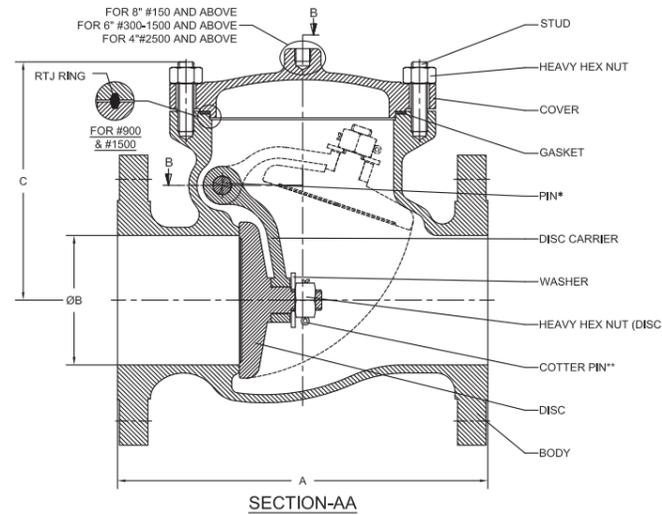
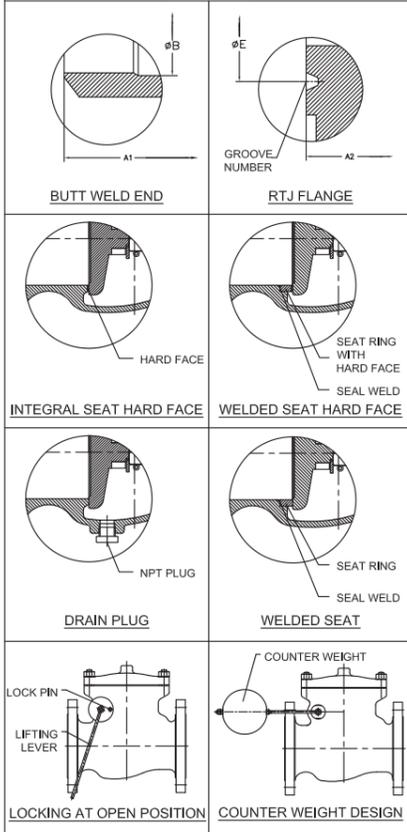


SECTION-BB

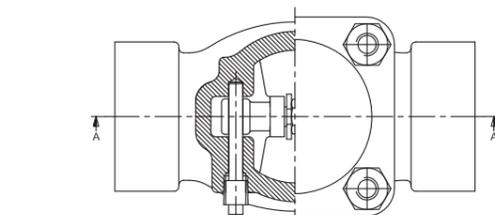
DESIGN SPECIFICATIONS	
GENERAL VALVE DESIGN*	ASME B16.34 / MSS SP-42 / API 594 / BS 1868
PRESSURE TEMPERATURE RATING	ASME B16.34
WALL THICKNESS*	ASME B16.34 / API 594 / BS 1868
FLANGE DESIGN	ASME B16.5 / ASME B16.47-A
BUTT WELD END DESIGN	ASME B16.25
FACE TO FACE DIMENSION	ASME B16.10
END TO END DIMENSION	ASME B16.10
MATERIALS	ASTM
VALVE TESTING	API 598

* GENERAL VALVE DESIGN AND WALL THICKNESS STANDARD CAN BE SELECTED BY THE PURCHASER

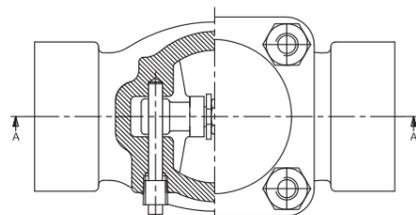
OPTIONS



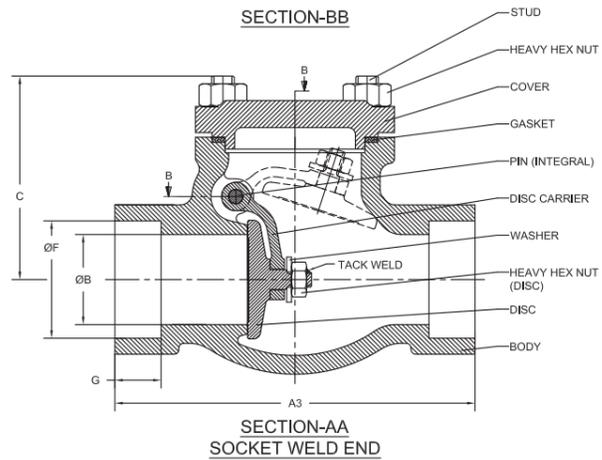
SECTION-AA



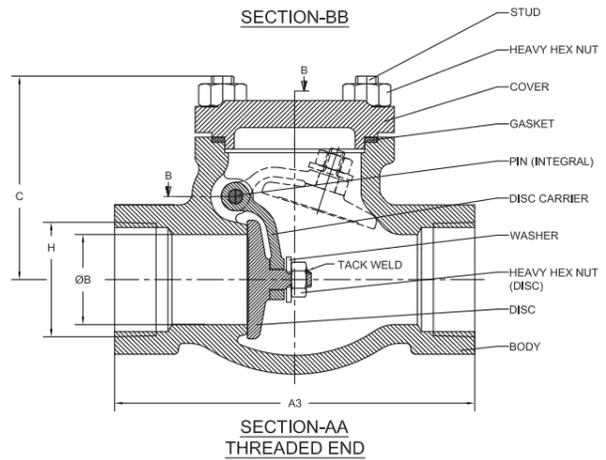
SECTION-BB



SECTION-BB



SECTION-AA
SOCKET WELD END



SECTION-AA
THREADED END

DIMENSIONS

SIZE	INCH		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm	
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	36	42	48																
A	INCH	4.25	4.62	5.00	6.50	8.00	8.50	9.50	11.50	13.00	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00	60.00	77.00	80.25	84.00															
	mm	117.3	127.0	165.1	203.2	215.9	241.3	292.1	330.2	355.6	495.3	622.3	698.5	787.4	863.6	977.9	977.9	1295.4	1524.0	1955.8	2038.4	2133.6																
A1	INCH	--	--	--	--	8.00	8.50	9.50	11.50	13.00	14.00	19.50	24.50	27.50	31.00	34.00	38.50	38.50	51.00	60.00	77.00	80.25	84.00															
	mm	--	--	--	--	203.2	215.9	241.3	292.1	330.2	355.6	495.3	622.3	698.5	787.4	863.6	977.9	977.9	1295.4	1524.0	1955.8	2038.4	2133.6															
A2	INCH	--	--	--	--	8.50	9.00	10.00	12.00	13.50	14.50	20.00	25.00	28.00	31.50	34.50	39.00	39.00	51.50	--	--	--	--															
	mm	--	--	--	--	215.9	228.6	254.0	304.8	342.9	368.3	508.0	635.0	711.2	800.1	876.3	990.6	990.6	1308.1	--	--	--	--															
ØB	INCH	0.5	0.75	1.00	1.50	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25	29.25	35.25	41.25	47.25															
	mm	13	20	25	38	51	64	76	102	127	152	203	254	305	337	387	438	489	591	743	896	1048	1201															
C	INCH	3.2	3.2	3.2	3.4	3.8	5.0	5.1	6.5	7.2	8.6	10.7	12.6	15.9	16.7	17.5	19.6	23.5	27.6	32.5	36.8	42.3	49.0															
	mm	80	80	80	87	96	127	130	165	184	219	272	320	403	425	445	499	598	702	825	935	1075	1245															
ØD	INCH	--	--	--	--	3.250	4.000	4.625	5.875	6.750	8.125	10.625	12.750	15.000	16.500	18.500	21.000	23.000	27.250	33.750	40.250																	
	mm	--	--	--	--	82.55	101.60	117.28	149.23	171.45	193.68	247.65	304.80	381.00	419.10	469.90	533.40	584.20	692.15	857.25	1022.35																	

SIZE	INCH		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm	
	1/2	3/4	1	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24	30	36	42	48														
A	INCH	6.00	7.00	8.50	9.50	10.50	11.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	38.50	40.00	53.00	62.75	82.00																
	mm	152.4	177.8	215.9	241.3	266.7	292.1	317.5	355.6	444.5	533.4	622.3	711.2	838.2	863.6	977.9	1016.0	1346.2	1593.9	2082.8																
A1	INCH	--	--	--	--	10.50	11.50	12.50	14.00	17.50	21.00	24.50	28.00	33.00	34.00	38.50	40.00	53.00	62.75	82.00																
	mm	--	--	--	--	266.7	292.1	317.5	355.6	444.5	533.4	622.3	711.2	838.2	863.6	977.9	1016.0	1346.2	1593.9	2082.8																
A2	INCH	--	--	--	--	11.12	12.12	13.12	14.62	18.12	21.62	25.12	28.62	33.62	34.62	39.12	40.75	53.88	63.75	83.12																
	mm	--	--	--	--	284.4	307.8	333.2	371.3	460.2	549.1	638.0	726.9	853.9	879.3	993.6	1035.1	1368.6	1619.3	2111.2																
ØB	INCH	0.5	0.75	1.00	1.50	2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00	12.00	13.25	15.25	17.25	19.25	23.25	29.25	35.25	41.25	47.25													
	mm	13	20	25	38	51	64	76	102	127	152	203	254	305	337	387	438	489	591	737	889	1041	1193													
C	INCH	3.2	3.2	3.2	3.4	4.0	5.4	5.9	7.1	9.2	10.7	12.6	15.9	17.3	18.1	19.9	25.0	27.4	36.8	42.9																
	mm	80	80	80	87	102	138	150	180	233	272	320	403	440	460	505	635	695	935	1090																
ØD	INCH	--	--	--	--	3.250	4.000	4.625	5.875	6.750	8.125	10.625	12.750	15.000	16.500	18.500	21.000	23.000	27.250	33.750	40.250															
	mm	--	--	--	--	82.55	101.60	117.28	149.23	171.45	193.68	247.65	304.80	381.00	419.10	469.90	533.40	584.20	692.15	857.25	1022.35															

SIZE	INCH		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm		mm	
	1/2	3/4	1	1 1/2	2	3	4	6	8	10	12	14	16	18	20	24	30																	
A	INCH	15	20	25	40	50	80	100	150	200	250	300	350	400	450	500	600	750																
	mm	381.0	508.0	635.0	1016.0	1270.0	2032.0	2540.0	3810.0	5080.0	6350.0	7620.0	8900.0	10160.0	11430.0	12700.0	15240.0	19050.0																
A1	INCH	--	--	--	--	11.50	14.00	17.00	22.00	26.00	31.00	35.00	39.00	43.00	47.00	55.00	65.00																	
	mm	--	--	--	--	292.1	355.6	431.8	558.8	660.4	787.4	890.6	990.6	1092.2	1193.8	1391.0	1651.0																	
A2	INCH	--	--	--	--	11.62	14.12	17.12	22.12	26.12	31.12	35.12	39.12	43.12	47.25	55.38	65.50																	
	mm	--	--	--	--	295.1	358.6	434.8	561.8	663.4	790.4	892.0	993.6	1095.2	1200.2	1406.7	1663.7																	
ØB	INCH	0.5	0.75	1.00	1.50	2.00	3.00	4.00	6.00	8.00	10.00	12.00	13.19	15.19	17.19	19.19	23.19	28.94																
	mm	13	20	25	38	51	76	102	152	203	254	305	334	385	436	487	589	735																
C	INCH	3.2	3.2	3.2	3.4	4.0	7.4	8.5	10.7	12.6	16.5	19.1	21.1	25.0	32.5	37.2	41.5																	
	mm	80	80	80	87	102	188	216	254	273	320	419	485	535	635	825	945	1055																
ØD	INCH	--	--	--	--	23	26	30	37	45	49	53	57	61	65	69	73	77	95	98														
	mm	--	--	--	--	584.2	660.4	762.0	940.0	1143.0	1270.0	1391.0	1463.0	1524.0	1651.0	1753.0	1854.0																	

BILL OF MATERIALS

PART NAME	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
BODY	A 216-WCB	WCC	A 217-WC6	WC9	A 217-C5	C9	C12	A 352-LCB	LCC
SEAT	WCB+13% Cr	WCC+13% Cr	WC6+13% Cr	WC9+ST6	A 217-C5+ST6	C9+ST6	C12+ST6	A 352-LCB+SS 304	LCC+SS 304
DISC	WCB+13% Cr	WCC+13% Cr	WC6+13% Cr	WC9+ST6	A 217-C5+ST6	C9+ST6	C12+ST6	A 352-LCB+SS 304	LCC+SS 304
COTTER PIN**	SS 410		SS 410		SS 410			SS 304	
HEAVY HEX NUT (DISC)	A 194-2HM		A 194-2HM		A 194-2HM			A 194-Gr.8	
DISC CARRIER	A 217-CA15		A 217-CA15		A 217-CA15			A 351-CF8	
WASHER	SS 410		SS 410		SS 410			SS 304	
NPT PLUG*	SS 410		SS 410		SS 410			SS 304	
PIN*	A 276-410		A 276-410		A 276-410			A 276-304	
STUD	A 193-B7		A 193-B16		A 193-B7			A 320-L7	
HEAVY HEX NUT	A 194-2H		A 194-7		A 194-2H			A 194-7	
GASKET	SS 316+GRAPHITE		SS 316+GRAPHITE		SS 316+GRAPHITE			PTFE	
COVER	A 216-WCB	WCC	A 217-WC6	WC9	A 479-410-1			A 352-LCB	LCC
RTJ RING	SS 410		SS 410		SS 410			SS 304	

PART NAME	A 351-CF8	CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
BODY	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
SEAT	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
DISC	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
COTTER PIN**	SS 304	SS 316	SS 304L	316L	SS 317	317L	SS 347	A 20
HEAVY HEX NUT (DISC)	A 194-Gr.8	A 194-Gr.8M	SS 304L	316L	SS 317	317L	SS 347	A 20
DISC CARRIER	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
WASHER	SS 304	SS 316	SS 304L	316L	SS 317	317L	SS 347	A 20
NPT PLUG*	SS 304	SS 316	SS 304L	316L	SS 317	317L	SS 347	A 20
PIN*	A 276-304	A 276-316	A 276-304L	316L	A 276-317	317L	A 276-347	A 20
STUD	A 193-B8		A 193-B8		A 193-B8		A 193-B8	A 193-B8M
HEAVY HEX NUT	A 194-8		A 194-8		A 194-8		A 194-8	A 194-8M
GASKET	PTFE		PTFE		PTFE		PTFE	
COVER	A 351-CF8	A 351-CF8M	A 351-CF3	CF3M	A 351-CG8M	CG3M	A 351-CF8C	CN7M
RTJ RING	SS 304	SS 316	SS 304L	SS 316L	SS 317	SS 317L	SS 347	A 20

PART NAME	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
BODY	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
SEAT	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
DISC	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
COTTER PIN**	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
HEAVY HEX NUT (DISC)	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
DISC CARRIER	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
WASHER	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
NPT PLUG*	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
PIN*	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625
STUD	A 193-B8M		A 193-B8M		A 193-B8M		A 193-B8M	
HEAVY HEX NUT	A 194-8M		A 194-8M		A 194-8M		A 194-8M	
GASKET	PTFE		PTFE		PTFE		PTFE	
COVER	A 351-CK3MCuN	CN3MN	A 995-4A	6A	A 494 CZ100	M35-1	A 494 CW12MW	CW6MC
RTJ RING	S31254	AL6XN	S31803	S32760	UNS N02200	UNS N04400	UNS N10002	UNS N06625

NOTES

- * NPT PLUG AND PIN IS INTEGRAL FOR 1 1/2" & BELOW (ONE SIDE BLIND)
- ** TACK WELDED INSTEAD OF COTTER PIN FOR 1 1/2" & BELOW

TECHNICAL DATAS

CLASS 150					
SIZE		WEIGHT		Cv	Kv
INCH	mm	kgs	lbs	Usgpm	cmph
1/2"	15	2.7	6.0	6.6	5.7
3/4"	20	3.6	7.9	14.1	12.2
1"	25	5.5	12.1	25.3	21.9
1 1/2"	40	8.0	17.6	56.8	49.2
2"	50	10.0	22.0	101.0	87.4
2 1/2"	65	15.0	33.1	157.9	136.6
3"	80	18.0	39.7	227.4	196.7
4"	100	30.0	66.1	404.2	349.6
5"	125	51.0	112.4	631.5	546.3
6"	150	59.5	131.1	909.4	786.7
8"	200	110.0	242.4	1616.7	1398.6
10"	250	175.0	385.7	2526.2	2185.3
12"	300	285.0	628.1	3637.7	3146.8
14"	350	318.0	700.9	4435.0	3836.5
16"	400	397.0	875.0	5874.9	5082.1
18"	450	580.0	1278.3	7516.9	6502.5
20"	500	750.0	1653.0	9361.0	8097.8
24"	600	1140.0	2512.6	13655.5	11812.7
30"	750	2610.0	5752.4	21612.9	18696.3
36"	900	3675.0	8099.7	31389.2	27153.3
42"	1050	5025.0	11075.1	42984.3	37183.6
48"	1200	6300.0	13885.2	56398.2	48787.4

CLASS 900					
SIZE		WEIGHT		Cv	Kv
INCH	mm	kgs	lbs	Usgpm	cmph
2"	50	43.5	95.9	98.0	84.8
3"	80	58.0	127.8	227.4	196.7
4"	100	95.0	209.4	404.2	349.6
6"	150	211.0	465.0	909.4	786.7
8"	200	317.0	698.7	1616.7	1398.6
10"	250	529.0	1165.9	2526.2	2185.3
12"	300	975.0	2148.9	3637.7	3146.8
14"	350	1380.0	3041.5	4061.6	3513.5
16"	400	1525.0	3361.1	5533.3	4786.6
18"	450	2100.0	4628.4	7003.1	6058.0
20"	500	2350.0	5179.4	8683.2	7511.4
24"	600	4625.0	10193.5	12720.6	11004.0

NOTE : Values are at Ideal / Theoretical condition.

CLASS 300					
SIZE		WEIGHT		Cv	Kv
INCH	mm	kgs	lbs	Usgpm	cmph
1/2"	15	3.6	7.9	6.6	5.7
3/4"	20	4.8	10.6	14.1	12.2
1"	25	7.3	16.1	25.3	21.9
1 1/2"	40	10.0	22.0	56.8	49.2
2"	50	12.1	26.7	101.0	87.4
2 1/2"	65	23.0	50.7	157.9	136.6
3"	80	28.0	61.7	227.4	196.7
4"	100	44.5	98.1	404.2	349.6
6"	150	92.0	202.8	909.4	786.7
8"	200	140.0	308.6	1616.7	1398.6
10"	250	215.0	473.9	2526.2	2185.3
12"	300	333.0	733.9	3637.7	3146.8
14"	350	560.0	1234.2	4435.0	3836.5
16"	400	636.0	1401.7	5874.9	5082.1
18"	450	865.0	1906.5	7516.9	6502.5
20"	500	1025.0	2259.1	9361.0	8097.8
24"	600	1950.0	4297.8	13655.5	11812.7
30"	750	3650.0	8044.6	21245.1	18378.1
36"	900	5650.0	12452.6	30945.5	26769.5

CLASS 1500					
SIZE		WEIGHT		Cv	Kv
INCH	mm	kgs	lbs	Usgpm	cmph
2"	50	43.5	95.9	98.0	84.8
3"	80	86.0	189.5	213.9	185.1
4"	100	157.0	346.0	392.2	339.2
6"	150	345.0	760.4	812.1	702.5
8"	200	564.0	1243.1	1443.8	1249.0
10"	250	917.0	2021.1	2236.9	1935.0
12"	300	1750.0	3857.0	3225.7	2790.4
14"	350	2525.0	5565.1	3884.2	3360.1
16"	400	2100.0	4628.4	5072.3	4387.8
18"	450	4250.0	9367.0	6450.8	5580.3
20"	500	5600.0	12342.4	8067.0	6978.4

CLASS 600					
SIZE		WEIGHT		Cv	Kv
INCH	mm	kgs	lbs	Usgpm	cmph
1/2"	15	5.0	11.0	6.6	5.7
3/4"	20	6.3	13.9	14.1	12.2
1"	25	9.0	19.8	25.3	21.9
1 1/2"	40	17.2	37.9	56.8	49.2
2"	50	26.0	57.3	101.0	87.4
3"	80	36.0	79.3	227.4	196.7
4"	100	70.0	154.3	404.2	349.6
6"	150	153.0	337.2	909.4	786.7
8"	200	247.5	545.5	1616.7	1398.6
10"	250	370.0	815.5	2526.2	2185.3
12"	300	496.0	1093.2	3637.7	3146.8
14"	350	740.0	1631.0	4394.9	3801.8
16"	400	1255.0	2766.0	5828.8	5042.2
18"	450	1575.0	3471.3	7464.7	6457.4
20"	500	2070.0	4562.3	9302.8	8047.4
24"	600	3250.0	7163.0	13585.1	11751.8
30"	750	5250.0	11571.0	21157.2	18302.1

CLASS 2500					
SIZE		WEIGHT		Cv	Kv
INCH	mm	kgs	lbs	Usgpm	cmph
2"	50	90.0	198.4	68.8	59.5
3"	80	187.0	412.1	150.4	130.1
4"	100	255.0	562.0	297.2	257.1
6"	150	850.0	1873.4	672.6	581.8
8"	200	1550.0	3416.2	1255.6	1086.1