

Flow Rates For Models: CBVF, CBVW, CBVG, SFV, SWV, SGV

±1% Between 10" W.C. and 70" W.C.
±3% Between 5" W.C. and 150" W.C.
±5% Less than 5" W.C. and Over 150" W.C.
Pressure Loss 6% of Differential Pressure
(5) Upstream Diameters Recommended

DIFFERENTIAL PRESSURE: INCHES W.C.

GPM	2½" Low	2½" High	3" Low	3" High	4" Low	4" High	5"	6"	GPM	3" High	4" Low	4" High	5"	6"
30	12.5	2.6	5.2						430	166	148	52.3	34.5	23.0
40	22.2	4.7	9.3						440	173	155	54.7	36.1	24.1
50	34.6	7.4	14.5	2.2					450	181	162	57.2	37.8	25.2
60	49.9	10.6	20.9	3.2	2.9				460	190	170	59.8	39.5	26.3
70	67.9	14.4	28.5	4.4	3.9				470	198	177	62.4	41.2	27.5
80	88.6	18.8	37.2	5.7	5.1				480	206	185	65.1	43.0	28.7
90	112	23.8	47.0	7.3	6.5	2.3			490	215	192	67.9	44.8	29.9
100	139	29.4	58.1	9.0	8.0	2.8			500	224	200	70.7	46.6	31.1
110	168	35.6	70.3	10.8	9.7	3.4	2.3		510	233	209	73.5	48.5	32.4
120	199	42.4	83.6	12.9	11.5	4.1	2.7		520	242	217	76.4	50.4	33.6

130	234	49.7	98.2	15.1	13.5	4.8	3.2	2.1	540	261	234	82.4	54.4	36.3
140	271	57.6	114	17.6	15.7	5.5	3.7	2.4	560	281	251	88.6	58.5	39.0
150		66.2	131	20.2	18.0	6.4	4.2	2.8	580	301	270	95.1	62.7	41.9
160		75.3	149	22.9	20.5	7.2	4.8	3.2	600		289	101	67.1	44.8
170		85.0	168	25.9	23.2	8.2	5.4	3.6	620			109	72	47.8
180		95.3	188	29.0	26.0	9.2	6.0	4.0	640			116	76	51.0
190		106	210	32.3	28.9	10.2	6.7	4.5	660			123	81	54.2
200		118	232	35.8	32.1	11.3	7.5	5.0	680			131	86	57.5
210		130	256	39.5	35.4	12.5	8.2	5.5	700			139	91	61.0
220		142	281	43.4	38.8	13.7	9.0	6.0	720			147	97	64.5

230		156		47.4	42.4	15.0	9.9	6.6	740			155	102	68.1
240		169		51.6	46.2	16.3	10.7	7.2	760			163	108	71.9
250		184		56.0	50.1	17.7	11.7	7.8	780			172	113	75.7
260		199		60.6	54.2	19.1	12.6	8.4	800			181	119	79.6
270		214		65.3	58.4	20.6	13.6	9.1	820			190	125	83.7
280		231		70.2	62.9	22.2	14.6	9.8	840			199	132	87.8
290		247		75.3	67.4	23.8	15.7	10.5	860			209	138	92.0
300		265		80.6	72.2	25.4	16.8	11.2	880			219	144	96.3
310		283		86.1	77.0	27.2	17.9	12.0	900			229	151	101
320		301		91.7	82.1	28.9	19.1	12.7	950			255	168	112

330				97.6	87.3	30.8	20.3	13.5	1000			283	186	124
340				104	92.7	32.7	21.6	14.4	1050				206	137
350				110	98	34.6	22.8	15.2	1100				226	151
360				116	104	36.6	24.2	16.1	1150				247	165
370				123	110	38.7	25.5	17.0	1200				268	179
380				129	116	40.8	26.9	18.0	1250				291	194
390				136	122	43.0	28.4	18.9	1300					210
400				143	128	45.2	29.8	19.9	1350					227
410				151	135	47.5	31.3	20.9	1400					244
420				158	141	49.9	32.9	21.9	1500					280

Flow Factors for calculating Delta Pressure
D.P. = (GPM * 17.3 / FF)²

Flow Factors for calculating Gallons per Minute
GPM = $\sqrt{\text{DP} \times \text{FF} / 17.3}$

2½" Low	2½" High	3" Low	3" High	4" Low	4" High	5"	6"	8"	10"	12"
147	319	227	578	611	1029	1267	1551	2824	4164	9670

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DIFFERENTIAL PRESSURE: INCHES W.C.

GPM	8"	10"	12"	GPM	8"	10"	12"	GPM	12"
520	10.1	4.7		2500	234.6	107.9	20.2	5050	81.6
540	10.9	5.0		2550	244.0	112.2	20.8	5100	83.2
560	11.8	5.4		2600	253.7	116.7	21.6	5150	84.9
580	12.6	5.8		2650	263.5	121.2	22.5	5200	86.5
600	13.5	6.2		2700	273.6	125.8	23.3	5250	88.2
620	14.4	6.6		2750	283.8	130.5	24.2	5300	89.9
640	15.4	7.1		2800	294.2	135.3	25.1	5350	91.6
660	16.3	7.5		2850	304.8	140.2	26.0	5400	93.3
680	17.4	8.0		2900	315.6	145.2	26.9	5500	96.8
700	18.4	8.5		2950	326.6	150.2	27.9	5700	104.0
720	19.5	8.9		3000		155.4	28.8	5900	111.4
740	20.6	9.5		3050		160.6	29.8	6100	119.1
760	21.7	10.0		3100		165.9	30.8	6300	127.0
780	22.8	10.5		3150		171.3	31.8	6500	135.2
800	24.0	11.0		3200		176.8	32.5	6700	143.7
820	25.2	11.6		3250		182.3	33.8	6900	152.4
840	26.5	12.2		3300		188.0	34.9	7100	161.3
860	27.8	12.8		3350		193.7	35.9	7300	170.6
880	29.1	13.4		3400		199.5	37.0	7500	180.0
900	30.4	14.0		3450		205.5	38.1	7700	189.8
950	33.9	15.6	2.9	3500		211.4	39.2	7900	199.8
1000	37.5	17.3	3.2	3550		217.5	40.3	8100	210.2
1050	41.4	19.0	3.5	3600		223.7	41.5	8300	220.5
1100	45.4	20.9	3.9	3650		230.0	42.6	8500	231.2
1150	49.6	22.8	4.2	3700		236.3	43.8	8700	242.3
1200	54.0	24.9	4.6	3750		242.7	45.0	8900	256.5
1250	58.6	27.0	5.0	3800		249.3	46.2	9100	265.0
1300	63.4	29.2	5.4	3850		2556	47.4	9300	276.8
1350	68.4	31.5	5.8	3900		262.5	48.7	9500	288.9
1400	73.6	33.8	6.3	3950		269.3	49.9	9700	301.1
1450	78.9	36.3	6.7	4000		276.2	51.2	9900	313.7
1500	84.4	38.8	7.2	4050		283.1	52.5	10100	326.5
1550	90.2	41.5	7.7	4100		290.2	53.8	10300	339.6
1600	96.1	44.2	8.2	4150		297.3	55.1	10500	352.9
1650	102.2	47.0	8.7	4200			56.5	10700	366.4
1700	108.5	49.9	9.2	4250			57.8	10900	380.3
1750	114.9	52.9	9.8	4300			59.2	11100	394.4
1800	121.6	55.9	10.4	4350			60.6	11300	408.7
1850	128.4	59.1	11.0	4400			62.0	11500	423.3
1900	135.5	62.3	11.6	4450			63.4	11700	438.1
1950	142.7	65.6	12.2	4500			64.8	11900	453.2
2000	150.1	69.0	12.8	4550			66.3	12100	468.6
2050	157.7	72.5	13.5	4600			67.7	12300	484.2
2100	165.5	76.1	14.1	4650			69.2		
2150	173.5	79.8	14.8	4700			70.7		
2200	181.6	83.5	15.5	4750			72.2		
2250	190.0	87.4	16.2	4800			73.7		
2300	198.5	91.3	16.9	4850			75.3		
2350	207.3	95.3	17.7	4900			76.8		
2400	216.2	99.4	18.4	4950			78.4		
2450	225.3	103.6	19.2	5000			80.0		