

## FRICTION LOSS & FLOW VELOCITY

Friction Loss and Flow Velocity for SDR 11 CPVC Pipes  
 (Friction head and Friction Loss are per 100 feet of pipe)  
**NOTICE :** Flow velocity should not exceed 5 feet per second. Velocities in excess of 5 feet per second may result in system failure and property damage.

Gallons per Minute	1/2 in.			3/4 in.			1 in.			1 1/4 in.			1 1/2 in.			2 in.		
	Velocity Feet Per Second	Head Loss Feet of Water Per 100 Ft.	Pressure Loss PSI Per 100 Ft.	Velocity Feet Per Second	Head Loss Feet of Water Per 100 Ft.	Pressure Loss PSI Per 100 Ft.	Velocity Feet Per Second	Head Loss Feet of Water Per 100 Ft.	Pressure Loss PSI Per 100 Ft.	Velocity Feet Per Second	Head Loss Feet of Water Per 100 Ft.	Pressure Loss PSI Per 100 Ft.	Velocity Feet Per Second	Head Loss Feet of Water Per 100 Ft.	Pressure Loss PSI Per 100 Ft.	Velocity Feet Per Second	Head Loss Feet of Water Per 100 Ft.	Pressure Loss PSI Per 100 Ft.
1	1.71	3.19	1.38	0.80	0.50	0.22	0.48	0.15	0.06									
2	3.42	11.53	5.00	1.60	1.82	0.79	0.96	0.53	0.23									
3	5.16	24.43	10.59	2.40	3.85	1.67	1.44	1.12	0.49									
4	6.83	41.62	18.04	3.20	6.55	2.84	1.93	1.91	0.83									
5	8.54	62.91	27.27	4.00	9.91	4.29	2.41	2.89	1.25	1.09	0.47	1.16	0.49	0.21	0.68	0.13	0.06	
6	10.25	88.18	38.23	4.79	13.89	6.02	2.89	4.05	1.76									
7	11.96	117.32	50.86	5.59	18.47	8.01	3.37	5.39	2.34									
8	13.67	150.23	65.13	6.39	23.66	10.26	3.85	6.90	2.99									
9	15.38	186.85	81.00	7.19	29.42	12.76	4.33	8.59	3.72									
10	17.08	227.11	98.45	7.99	35.76	15.50	4.82	10.43	4.52	3.94	1.71	2.31	1.75	0.76	1.35	0.49	0.21	
15				11.99	75.78	32.85	7.22	22.11	9.58	8.35	3.62	3.47	3.71	1.61	2.03	1.03	0.45	0.45
20				15.98	129.11	55.97	9.63	37.67	16.33	14.23	6.17	4.63	6.33	2.74	2.70	1.76	0.76	0.76
25							12.04	56.94	24.69	21.51	9.33	5.78	9.56	4.15	3.38	2.66	1.15	1.15
30							14.45	79.82	34.60	30.15	13.07	6.94	13.40	5.81	4.05	3.73	1.62	1.62
35							16.86	106.19	46.03	40.11	17.39	8.09	17.83	7.73	4.73	4.96	2.15	2.15
40										51.37	22.27	9.25	22.83	9.90	5.40	6.35	2.75	2.75
45										63.89	27.70	10.41	28.40	12.31	6.08	7.89	3.42	3.42
50										77.66	33.66	11.56	34.52	14.96	6.75	9.60	4.16	4.16
55										92.65	40.16	12.72	41.18	17.85	7.43	11.45	4.96	4.96
60												13.88	48.38	20.97	8.10	13.45	5.83	5.83
70												16.19	64.37	27.90	9.46	17.89	7.76	7.76
80															10.61	22.91	9.93	9.93
90															12.16	28.50	12.35	12.35
100															13.51	34.64	15.02	15.02
125															16.89	52.37	22.70	22.70