

Crane Co. Chicago

Largest Manufacturers and Distributors of Pipe, Valves and Fittings
in the World.

FLOW OF STEAM IN POUNDS PER MINUTE THROUGH STANDARD AND EXTRA STRONG PIPES AND PRESSURE DROP OF
STEAM IN POUNDS THROUGH 100 FEET STANDARD AND EXTRA STRONG PIPES
VELOCITY, 3000 FT. PER MINUTE
TABLES FURNISHED BY CRANE CO.

GAUGE PRESSURE IN POUNDS PER SQUARE INCH

Size	STANDARD PIPE										EXTRA STRONG PIPE		
	1	3	5	10	15	25	35	50	75	100	125	150	200
1/4 Flow	.255	.286	.315	.388	.461	.604	.745	.953	1.296	1.632	1.965	2.304	2.962
Drop	1.537	1.746	1.903	2.352	2.790	3.656	4.515	5.775	7.845	9.88	11.87	13.96	17.92
1/4 Flow	.448	.501	.553	.681	.808	1.058	1.305	1.669	2.221	2.860	3.445	4.038	5.190
Drop	9.06	1.014	1.118	1.380	1.636	2.140	2.640	3.377	4.600	5.780	6.962	8.180	9.375
1 Flow	.726	.812	.896	1.105	1.310	1.715	2.115	2.705	3.681	4.636	5.588	6.548	7.490
Drop	.597	.668	.736	.910	1.079	1.410	1.740	2.222	3.028	3.803	4.595	5.400	6.172
1 1/4 Flow	1.256	1.406	1.552	1.912	2.270	2.968	3.662	4.683	6.372	8.030	9.670	11.32	12.97
Drop	.369	.414	.457	.564	.668	.875	1.076	1.379	1.873	2.363	2.842	3.333	3.825
1 1/2 Flow	1.711	1.914	2.111	2.604	3.086	4.042	4.986	6.380	8.670	10.93	13.17	15.42	17.65
Drop	.284	.318	.351	.434	.512	.671	.828	1.061	1.440	1.817	2.187	2.567	2.938
2 Flow	2.818	3.152	3.480	4.290	5.085	6.660	8.215	10.51	14.29	18.01	21.68	25.42	29.08
Drop	.187	.211	.232	.286	.338	.444	.548	.697	.950	1.198	1.442	1.694	1.938
2 1/2 Flow	4.012	4.501	4.968	6.122	7.260	9.515	11.73	13.00	20.41	23.70	30.95	36.27	41.55
Drop	.140	.158	.174	.215	.254	.334	.411	.525	.714	.869	1.082	1.272	1.437
3 Flow	6.211	6.945	7.665	9.455	11.21	14.68	18.10	23.14	31.48	39.67	47.80	56.00	64.15
Drop	.099	.112	.123	.153	.181	.237	.293	.374	.508	.641	.771	.905	1.040
4 Flow	10.69	11.96	13.20	16.27	19.30	25.27	31.17	37.87	54.25	68.30	82.30	96.45	110.3
Drop	.066	.074	.082	.101	.120	.157	.194	.248	.338	.424	.512	.600	.687
5 Flow	16.83	18.82	20.75	25.58	30.33	39.73	49.00	62.70	85.35	107.3	129.5	151.6	173.5
Drop	.048	.054	.059	.073	.087	.114	.140	.179	.244	.306	.370	.433	.497
6 Flow	24.27	27.16	29.96	36.94	43.80	57.35	70.75	90.50	123.2	155.1	186.8	218.0	250.5
Drop	.037	.042	.046	.057	.067	.088	.109	.139	.189	.238	.286	.333	.384
8 Flow	42.95	48.08	53.03	65.38	77.50	101.5	125.2	161.2	217.8	274.4	330.7	387.3	443.3
Drop	.025	.028	.031	.039	.046	.060	.074	.094	.129	.162	.195	.228	.262
10 Flow	67.80	75.85	83.70	103.2	122.4	160.2	197.7	255.8	343.8	433.0	522.0	611.8	699.0
Drop	.019	.021	.023	.029	.034	.045	.055	.071	.096	.121	.146	.171	.195
12 Flow	96.50	107.9	119.1	146.8	174.2	228.0	281.2	359.5	489.2	616.2	742.0	870.0	995.0
Drop	.015	.017	.019	.023	.028	.036	.044	.057	.077	.097	.117	.137	.157

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STEAM IN POUNDS THROUGH 100 FEET
STANDARD AND EXTRA STRONG PIPES
VELOCITY, 4000 FT. PER MINUTE

GAUGE PRESSURE IN POUNDS PER SQUARE INCH

Size	STANDARD PIPE										EXTRA STRONG PIPE		
	1	3	5	10	15	25	35	50	75	100	125	150	200
1/4 Flow	.340	.381	.420	.518	.614	.805	.993	1.270	1.727	2.175	2.620	3.072	3.515
Drop	2.733	3.100	3.384	4.180	4.955	6.500	8.030	10.25	13.93	17.54	21.22	24.82	28.42
1/4 Flow	.597	.668	.737	.908	1.077	1.411	1.740	2.225	3.029	3.814	4.593	5.382	6.160
Drop	1.610	1.803	1.990	2.452	2.900	3.805	4.700	6.000	8.190	10.29	12.37	14.53	16.66
1 Flow	.968	1.083	1.195	1.473	1.746	2.287	2.821	3.608	4.908	6.182	7.448	8.730	9.990
Drop	1.061	1.190	1.310	1.616	1.913	2.492	3.090	3.956	5.385	6.775	8.165	9.585	10.99
1 1/4 Flow	1.625	1.873	2.068	2.548	3.023	3.958	4.882	6.241	8.490	10.70	12.88	15.11	17.28
Drop	.657	.734	.811	1.000	1.185	1.535	1.915	2.448	3.330	4.190	5.045	5.938	6.796
1 1/2 Flow	2.281	2.551	2.816	3.471	4.113	5.388	6.650	8.500	11.57	14.57	17.56	20.56	23.53
Drop	.505	.566	.624	.770	.910	1.194	1.472	1.883	2.564	3.222	3.869	4.555	5.222
2 Flow	3.760	4.208	4.641	5.721	6.782	8.880	10.96	14.02	19.06	24.02	28.92	33.90	38.80
Drop	.334	.376	.412	.509	.602	.788	.976	1.243	1.690	2.160	2.562	3.110	3.448
2 1/2 Flow	5.365	6.000	6.621	8.165	9.680	12.68	15.64	20.00	27.20	34.26	41.28	48.36	55.35
Drop	.250	.280	.309	.382	.452	.592	.731	.933	1.270	1.598	1.926	2.260	2.585
3 Flow	8.280	9.260	10.22	12.60	14.93	19.57	24.13	30.85	42.00	52.88	63.70	74.62	85.45
Drop	.177	.199	.220	.272	.322	.421	.520	.664	.905	1.138	1.370	1.610	1.840
4 Flow	14.26	15.96	17.61	21.70	25.73	33.70	41.58	53.15	72.33	91.10	109.8	128.6	147.2
Drop	.118	.133	.146	.181	.214	.279	.345	.441	.600	.755	.911	1.068	1.235
5 Flow	22.43	25.08	27.68	34.12	40.45	52.96	65.32	83.60	113.7	143.2	172.4	202.2	231.3
Drop	.085	.096	.106	.130	.154	.202	.249	.318	.433	.546	.656	.768	.883
6 Flow	32.36	36.22	39.95	49.23	58.38	76.48	94.30	120.7	164.2	206.7	249.0	291.8	334.0
Drop	.066	.074	.082	.101	.119	.156	.193	.247	.336	.422	.508	.597	.683
8 Flow	57.30	64.10	70.72	87.15	103.4	135.4	166.9	213.6	291.0	365.9	440.8	516.5	591.0
Drop	.045	.051	.056	.069	.082	.107	.131	.167	.229	.287	.346	.406	.465
10 Flow	90.40	101.1	111.6	137.6	163.1	213.6	263.4	336.8	458.5	577.2	695.0	815.0	932.8
Drop	.034	.038	.042	.052	.061	.080	.098	.126	.171	.214	.258	.304	.348
12 Flow	128.6	143.8	158.8	195.7	232.0	303.9	374.6	479.3	652.0	821.5	989.0	1159	1327
Drop	.027	.031	.034	.042	.049	.064	.079	.101	.137	.172	.208	.244	.280