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

Sizes		STANDARD PIPE 1	3	5	10	15	25	35	50	75	100	125	150	175	200	EXTRA STRONG PIPE 150	175	200	Sizes
½	Flow	.255	.286	.315	.388	.461	.604	.745	.953	1.296	1.632	1.965	2.304	2.636	2.962	1.772	2.028	2.278	½
	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	15.96	17.92	17.72	20.28	22.78	
¾	Flow	.448	.501	.553	.681	.808	1.058	1.305	1.669	2.271	2.860	3.445	4.038	4.621	5.190	3.282	3.753	4.216	¾
	Drop	.906	1.014	1.118	1.380	1.636	2.140	2.640	3.377	4.600	5.780	6.962	8.180	9.375	10.50	10.11	11.54	12.99	
1	Flow	.725	.812	.896	1.105	1.310	1.715	2.115	2.705	3.681	4.636	5.588	6.548	7.490	8.419	5.450	6.236	7.050	1
	Drop	.597	.668	.736	.910	1.079	1.410	1.740	2.222	3.028	3.803	4.595	5.400	6.172	6.940	6.355	7.273	8.260	
1¼	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	14.56	9.720	11.25	12.48	1¼
	Drop	.369	.414	.457	.564	.668	.875	1.076	1.379	1.873	2.363	2.842	3.333	3.825	4.279	3.826	4.470	4.900	
1½	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	19.83	13.38	15.31	17.21	1½
	Drop	.284	.318	.351	.434	.512	.671	.828	1.061	1.440	1.817	2.187	2.567	2.938	3.295	2.895	3.322	3.715	
2	Flow	2.818	3.152	3.480	4.290	5.085	6.650	8.215	10.51	14.29	18.01	21.68	25.42	29.08	32.67	22.38	25.60	28.77	2
	Drop	.187	.211	.232	.286	.338	.444	.548	.697	.950	1.198	1.442	1.694	1.938	2.173	1.883	2.155	2.418	
2½	Flow	4.012	4.501	4.968	6.122	7.260	9.515	11.73	15.00	20.41	25.70	30.95	36.27	41.55	46.65	32.23	36.75	41.28	2½
	Drop	.140	.158	.174	.215	.254	.334	.411	.525	.714	.869	1.082	1.272	1.457	1.637	1.410	1.605	1.790	
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	71.95	50.00	57.25	64.33	3
	Drop	.099	.112	.123	.153	.181	.237	.293	.374	.508	.641	.771	.905	1.040	1.162	.985	1.129	1.268	
4	Flow	10.69	11.96	13.20	16.27	19.30	25.27	31.17	39.87	54.25	68.30	82.30	96.45	110.3	124.0	87.15	99.70	112.0	4
	Drop	.066	.074	.082	.101	.120	.157	.194	.248	.338	.424	.512	.600	.687	.771	.649	.743	.820	
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	195.0	137.7	157.7	177.1	5
	Drop	.048	.054	.059	.073	.087	.114	.140	.179	.244	.306	.370	.433	.497	.557	.464	.531	.595	
6	Flow	24.27	27.16	29.96	36.94	43.80	57.35	70.75	90.50	123.2	155.1	185.8	218.0	250.5	281.5	197.5	226.1	253.8	6
	Drop	.037	.042	.046	.057	.067	.088	.109	.139	.189	.238	.286	.333	.384	.431	.361	.413	.463	
8	Flow	42.95	48.08	53.03	65.38	77.50	101.5	125.2	160.2	217.8	274.4	330.7	387.3	443.3	498.0	346.0	395.7	444.8	8
	Drop	.025	.028	.031	.039	.046	.060	.074	.094	.129	.162	.195	.228	.262	.294	.247	.282	.317	
10	Flow	67.80	75.85	83.70	103.2	122.4	160.2	197.7	252.8	343.8	433.0	522.0	611.8	699.0	785.5	565.5	646.8	726.8	10
	Drop	.019	.021	.023	.029	.034	.045	.055	.071	.096	.121	.146	.171	.195	.219	.180	.205	.231	
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	1117.	821.5	940.5	1056.	12
	Drop	.015	.017	.019	.023	.028	.036	.044	.057	.077	.097	.117	.137	.157	.176	.142	.163	.183	

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

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VELOCITY, 4000 FT. PER MINUTE

TABLES FURNISHED BY CRANE CO.

GAUGE PRESSURE IN POUNDS PER SQUARE INCH

Sizes		STANDARD PIPE 1	3	5	10	15	25	35	50	75	100	125	150	175	200	EXTRA STRONG PIPE 150	175	200	Sizes
½	Flow	.340	.381	.420	.518	.614	.805	.993	1.270	1.727	2.175	2.620	3.072	3.515	3.974	2.364	2.704	3.038	½
	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	31.85	31.52	36.00	40.55	
¾	Flow	.597	.668	.737	.908	1.077	1.411	1.740	2.225	3.029	3.814	4.593	5.382	6.160	6.920	4.272	5.005	5.621	¾
	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	18.68	17.92	20.53	23.21	
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	11.22	7.260	8.310	9.340	1
	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	12.31	11.28	12.92	14.50	
1¼	Flow	1.675	1.873	2.068	2.548	3.023	3.958	4.882	6.241	4.490	10.70	12.88	15.11	17.28	19.42	12.96	14.82	16.66	1¼
	Drop	.657	.734	.811	1.000	1.185	1.555	1.915	2.448	3.330	4.190	5.045	5.938	6.796	7.617	6.792	7.730	8.730	
1½	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	26.44	17.85	20.43	22.95	1½
	Drop	.505	.566	.624	.770	.910	1.194	1.472	1.883	2.564	3.222	3.889	4.555	5.222	5.860	5.150	5.900	6.610	
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	43.58	29.83	34.13	38.35	2
	Drop	.334	.376	.412	.509	.602	.788	.976	1.243	1.690	2.160	2.562	3.110	3.448	3.865	3.345	3.830	4.295	
2½	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	62.19	42.80	48.95	55.00	2½
	Drop	.250	.280	.309	.382	.452	.592	.731	.933	1.270	1.598	1.926	2.260	2.585	2.902	2.488	2.850	3.192	
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	95.90	66.70	76.35	85.85	3
	Drop	.177	.199	.220	.272	.322	.421	.520	.664	.905	1.138	1.370	1.610	1.840	2.063	1.754	2.010	2.260	
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	165.3	116.1	132.8	149.2	4
	Drop	.118	.133	.146	.181	.214	.279	.345	.441	.600	.755	.911	1.068	1.235	1.370	1.150	1.318	1.455	
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	259.9	183.7	210.3	236.3	5
	Drop	.085	.096	.106	.130	.154	.202	.249	.318	.433	.546	.656	.768	.883	.990	.825	.945	1.060	
6	Flow	32.36	36.22	39.95	49.25	58.38	76.48	94.30	120.7	164.2	206.7	249.0	291.8	334.0	375.1	263.3	301.3	338.4	6
	Drop	.066	.074	.082	.101	.119	.156	.193	.247	.336	.422	.508	.597	.683	.765	.640	.733	.822	
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	664.0	461.2	528.0	593.3	8
	Drop	.045	.051	.056	.069	.082	.107	.131	.167	.229	.287	.346	.406	.465	.522	.439	.502	.563	
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	1048.	754.2	863.0	969.0	10
	Drop	.034	.038	.042	.052	.061	.080	.098	.126	.171	.214	.258	.304	.348	.390	.320	.365	.410	
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.	1490.	1095.	1253.	1407.	12
	Drop	.027	.031	.034	.042	.049	.064	.079	.101	.137	.172	.208	.244	.280	.313	.253	.289	.324	