FRICTION LOSS CHARACTERISTICS

Type "K" Copper Water Tube

Loss per 100 feet of pipe in PSI C=140

Size	½"		⅝"		¾"		1"		1¼"		1½"		2"		2½"		3"		Size
OD	06254		0.750		0.875		1.125		1.375		1.625		2.125		2.625		3.125		OD
ID	0.527		0.652		0.745		0.995		1.245		1.481		1.959		2.435		2.907		ID
Wall	0.049		0.049		0.065		0.065		0.065		0.072		0.083		0.095		0.109		Wall
Flow GPM	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Velocity FPS	PSI Loss	Flow GPM
1	1.46	1.09	0.95	0.39	0.73	0.20	0.41	0.05	0.26	0.02	0.18	0.01	0.10	0.00					1
2	2.93	3.94	1.91	1.40	1.47	0.73	0.82	0.18	0.52	0.06	0.37	0.03	0.21	0.01					2
3	4.40	8.35	2.87	2.97	2.20	1.55	1.23	0.38	0.78	0.13	0.55	0.05	0.31	0.01	0.20	0.00			3
4	5.87	14.23	3.83	5.05	2.94	2.64	1.64	0.65	1.05	0.22	0.74	0.09	0.42	0.02	0.27	0.01	0.19	0.00	4
5	7.34	21.51	4.79	7.64	3.67	3.99	2.06	0.98	1.31	0.33	0.93	0.14	0.53	0.04	0.34	0.01	0.24	0.01	5
6	8.81	30.15	5.75	10.70	4.41	5.60	2.47	1.37	1.57	0.46	1.11	0.20	0.63	0.05	0.41	0.02	0.28	0.01	6
7	10.28	40.11	6.71	14.24	5.14	7.44	2.88	1.82	1.84	0.61	1.30	0.26	0.74	0.07	0.48	0.02	0.33	0.01	7
8	11.75	51.37	7.67	18.24	5.88	9.53	3.29	2.33	2.10	0.78	1.48	0.34	0.85	0.09	0.55	0.03	0.38	0.01	8
9	13.22	63.89	8.63	22.68	6.61	11.86	3.70	2.90	2.36	0.97	1.67	0.42	0.95	0.11	0.61	0.04	0.43	0.02	9
10	14.69	77.66	9.59	27.57	7.35	14.41	4.12	3.53	2.63	1.18	1.86	0.51	1.06	0.13	0.68	0.05	0.48	0.02	10
11	16.15	92.65	10.55	32.89	8.08	17.19	4.53	4.21	2.89	1.41	2.04	0.61	1.16	0.16	0.75	0.05	0.53	0.02	11
12	17.62	108.85	11.51	38.64	8.82	20.20	4.94	4.94	3.15	1.66	2.23	0.71	1.27	0.18	0.82	0.06	0.57	0.03	12
14			13.43	51.41	10.29	26.87	5.76	6.57	3.68	2.21	2.60	0.95	1.48	0.24	0.95	0.08	0.67	0.04	14
16			15.35	65.83	11.76	34.41	6.59	8.42	4.21	2.83	2.97	1.22	1.70	0.31	1.10	0.11	0.77	0.05	16
18			17.27	81.88	13.23	42.80	7.41	10.47	4.73	3.52	3.34	1.51	1.91	0.39	1.23	0.13	0.86	0.06	18
20			19.19	99.53	14.70	52.02	8.24	12.73	5.26	4.28	3.72	1.84	2.11	0.47	1.37	0.16	0.96	0.07	20
22					16.17	62.06	9.06	15.18	5.79	5.10	4.09	2.19	2.33	0.56	1.51	0.20	1.06	0.08	22
24					17.64	72.92	9.89	17.84	6.31	5.99	4.46	2.58	2.55	0.66	1.65	0.23	1.15	0.10	24
26					19.11	84.57	10.71	20.69	6.84	6.95	4.83	2.99	2.76	0.77	1.78	0.27	1.25	0.11	26
28							11.53	23.73	7.37	7.98	5.20	3.43	2.97	0.88	1.92	0.30	1.35	0.13	28
30							12.36	26.97	7.89	9.06	5.58	3.89	3.18	1.00	2.06	0.35	1.44	0.15	30
35							14.42	35.88	9.21	12.06	6.51	5.18	3.72	1.33	2.40	0.46	1.68	0.19	35
40							16.48	45.95	10.52	15.44	7.44	6.63	4.25	1.70	2.75	0.59	1.93	0.25	40
45							18.54	57.15	11.84	19.20	8.37	8.25	4.78	2.12	3.00	0.73	2.17	0.31	45
50									13.16	23.34	9.30	10.03	5.31	2.57	3.44	0.89	2.41	0.38	50
55									14.47	27.85	10.23	11.97	5.84	3.07	3.78	1.06	2.65	0.45	55
60									15.79	32.71	11.16	14.06	6.37	3.60	4.12	1.25	2.89	0.53	60
65									17.10	37.94	12.09	16.31	6.91	4.18	4.47	1.45	3.13	0.61	65
70									18.42	43.52	13.02	18.70	7.44	4.80	4.81	1.66	3.37	0.70	70
75									19.74	49.46	13.95	21.25	7.97	5.45	5.16	1.89	3.62	0.80	75
80											14.88	23.95	8.50	6.14	5.50	2.13	3.86	0.90	80
85											15.81	26.80	9.03	6.87	5.84	2.38	4.10	1.01	85
90											16.74	29.79	9.56	7.64	6.19	2.65	4.34	1.12	90
95											17.67	32.93	10.09	8.44	6.53	2.93	4.58	1.24	95
100											18.60	36.21	10.63	9.28	6.88	3.22	4.82	1.36	100
110													11.69	11.08	7.56	3.84	5.31	1.62	110
120													12.75	13.01	8.25	4.52	5.79	1.91	120
130													13.82	15.09	8.94	5.24	6.27	2.21	130
140													14.88	17.31	9.63	6.01	6.75	2.54	140
150													15.94	19.67	10.32	6.83	7.24	2.88	150
160													17.01	22.17	11.00	7.69	7.72	3.25	160
170													18.07	24.81	11.69	8.61	8.20	3.64	170
180													19.13	27.58	12.38	9.57	8.69	4.04	180
190															13.07	10.58	9.17	4.47	190
200															13.76	11.63	9.65	4.91	200
225															15.48	14.47	10.86	6.11	225
250															17.20	17.58	12.07	7.43	250
275															18.92	20.98	13.27	8.86	275
300																	14.48	10.41	300
325																	15.69	12.07	325

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Note: Velocities in shaded (Red) area exceed 5 feet per second and should be used with caution