



TEMPERATURE CONTROLLERS... PORTABLE CHILLERS... CENTRAL CHILLERS... PUMP TANK STATIONS... TOWER SYSTEMS...

SUBJECT: PIPE SIZING - GPM & PRESSURE LOSS

#7-C-167

10/03/1995

**5' - 7' FEET PER SECOND VELOCITY**

PIPE SIZE	5' - 7' FPS GPM Range	PSI Pressure Loss per 100'
1/2"	5 - 7	11 - 15
3/4"	8 - 11	6 - 9
1"	12 - 20	6 - 11
1 1/4"	20 - 30	2.7 - 6
1 1/2"	30 - 50	2.7 - 7
2"	55 - 80	2.5 - 5
2 1/2"	80 - 100	2 - 3
3"	110 - 175	1.6 - 3
4"	200 - 300	.9 - 2.1
6"	450 - 650	.6 - 1.18

**EQUIVALENT LOSSES**

90° elbow	20'
45° elbow	12'
Branch tee	15'
Gate valve (open)	15'
Ball valve (open)	25'
Quick disconnect (open)	35'
Hose barb	10'