

Calculated Friction Head in feet per 100 feet Pipe Run for Different Pumping Rates

Pipe diameter in inches

gal min ⁻¹	0.5	0.8	1.0	1.3	1.5	2.0	2.5	3.0	3.5	4.0	5.0	6.0	lit min ⁻¹
0.5	1.5												2.3
1	4.8	0.65											4.5
2	16.0	2.3	0.58										9.1
4	55.0	7.8	2.0										18.2
5		11.5	3.0	0.83									22.7
10		38.0	10.0	3.0	1.45								45.4
15			21.0	6.2	3.0	0.75							68.1
20			34.0	10.5	5.0	1.3							90.8
30					10.5	2.6							136.2
40					18.0	4.5	1.4						181.6
50					26.0	6.8	2.1	0.9					227.0
60					36.0	9.5	3.0	1.3					272.4
70						12.0	3.9	1.7					317.8
80							5.2	2.2	1.05				363.2
90							6.2	2.7	1.3				408.6
100							7.5	3.2	1.6				454.0
125							11.5	4.8	2.3	1.15			567.5
150							16.0	6.7	3.2	1.7			681.0
200							27.0	11.0	5.2	2.7			908.0
250							41.0	17.0	8.0	4.1	1.5		1135.0
300							58.0	23.0	11.0	5.8	2.0		1362.0
350							76.0	3.0	15.0	7.7	2.7	1.15	1589.0
400							100.0	39.0	19.0	9.8	3.4	1.45	1816.0

WROUGHT IRON OR STEEL PIPES
Friction head feet per 100 foot run