Multipliers to apply to values from water friction loss chart to obtain friction loss in other types of pipe or conduit.

Type of New Conduit or Pipe	Multiplier to Apply Value of Friction Loss
Rubber lined hose	0.72
Spun cement line pipe	0.76
Spun bitumastic enameled pipe	0.76
Aluminum irrigation pipe	0.81
Transite pipe	0.85
Copper or Brass pipe	0.86
Seamless steel tubing	0.86
Glass tube or pipe	0.86
Schedule #40 steel pipe	1.00
Wood Stave pipe	1.15
Galvanized iron pipe	1.22
Vitrified pipe	1.36
Spiral riveted pipe (flow with lap)	1.40
Spiral riveted pipe (flow against lap)	1.70
Unlined linen hose	1.80

The multipliers in table provide for the difference in type of pipe only. They do not include deviations in internal diameter from schedule #40 steel pipe.

Increase in Friction Loss Due to Aging of Pipe

Age of Pipe in Years	Multipliers for use with Small Pipes 4" - 10"	Large Pipes 12" - 60"
NEW	1.00	1.00
5	1.40	1.30
10	2.20	1.60
15	3.60	1.80
20	5.00	2.00
25	6.30	2.10
30	7.25	2.20
35	8.10	2.30
40	8.75	2.40
45	9.25	2.60
50	9.60	2.86
55	9.80	3.26
60	10.00	3.70
65	10.05	4.25
70	10.10	4.70