

# PVC - Equivalent Length Friction Loss in Fittings

Approximate friction loss for PVC and CPVC Pipe Fittings in Equivalent Length in feet for water:

Friction Loss Equivalent Length - feet of Straight Pipe (ft)													
Fitting	Nominal Pipe Size (inches)												
	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8	10	12
90° Elbow	1.5	2.0	2.5	3.8	4.0	5.7	6.9	7.9	12.0	18.0	22.0	26	32
45° Elbow	0.8	1.1	1.4	1.8	2.1	2.6	3.1	4.0	5.1	8.0	10.6	13.5	15.5
Gatevalve	0.3	0.4	0.6	0.8	1.0	1.5	2.0	3.0					
Tee Flow - Run	1.0	1.4	1.7	2.3	2.7	4.3	5.1	6.2	8.3	12.5	16.5	17.5	20.0
Tee Flow - Branch	4.0	5.0	6.0	7.0	8.0	12.0	15.0	16.0	22.0	32.7	49.0	57.0	67.0
Male/Female Adapter	1.0	1.5	2.0	2.8	3.5	4.5	5.5	6.5	9.0	14			