# Copper Pipe Fitting Equivalent Pipe Lengths (ft.)

| Fitting/Valve | 3/8″ | 1/2" | 3/4" | 1″ | 1.25″ | 1.5″ | 2″ | 2-1/2" | 3″ |
|---|---|---|---|---|---|---|---|---|---|
| 90 deg El | 0.5 | 1 | 2 | 2.5 | 3 | 4 | 5.5 | 7 | 9 |
| 45 deg El | 0.35 | 0.5 | 0.75 | 1 | 1.2 | 1.5 | 2 | 2.5 | 3.5 |
| Tee (st. run) | 0.2 | 0.3 | 0.4 | 0.45 | 0.6 | 0.8 | 1 | 0.5 | 1 |
| Tee (side) | 2.5 | 2 | 3 | 4.5 | 5.5 | 7 | 9 | 12 | 15 |
| Monoflo Tee | | | 70 | 23.5 | 25 | 23 | 23 | | |
| Reducing Coup. | 0.2 | 0.4 | 0.5 | 0.6 | 0.8 | 1 | 1.3 | 1 | 1.5 |
| Gate Valve | 0.35 | 0.2 | 0.25 | 0.3 | 0.4 | 0.5 | 0.7 | 1 | 1.5 |
| Globe Valve | 8.5 | 15 | 20 | 25 | 36 | 46 | 56 | 104 | 130 |
| Angle Valve | 1.8 | 3.1 | 4.7 | 5.3 | 7.8 | 9.4 | 12.5 | 23 | 29 |
| Ball Valve | 1.8 | 1.9 | 2.2 | 4.3 | 7 | 6.6 | 14 | 0.5 | 1 |
| Swing Check | 0.95 | 2 | 3 | 4.5 | 5.5 | 6.5 | 9 | 11 | 13 |
| Flow Check | | | 83 | 54 | 74 | 57 | 177 | 85 | 98 |
| Butterfly Valve | | 1.1 | 2 | 2.7 | 2 | 2.7 | 4.5 | 10 | 15.5 |

**Double Values For Threaded Pipe**