

APPROXIMATE PRESSURE LOSS* IN PIPES PER 100M RUN

Internal Diameter of Pipe

| CAPACITY | | | | gas | ¾" | 1" | 1¼" | 1½" | 2" | 2½" | 3½" | 4" | 5" | 6" | 8" | 10" | 12" |
|----------------------------|-------|------|------|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| l/min | l/sec | m³/h | gpm | mm | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | 300 |
| Pressure Loss in mH | | | | | | | | | | | | | | | | | |
| 10 | 0.16 | 0.6 | 2.2 | | 2.6 | 1 | 0.28 | 0.09 | | | | | | | | | |
| 15 | 0.25 | 0.9 | 3.3 | | 6.5 | 2.15 | 0.6 | 0.18 | | | | | | | | | |
| 20 | 0.33 | 1.2 | 4.4 | | 10 | 3.5 | 1 | 0.3 | 0.11 | | | | | | | | |
| 25 | 0.41 | 1.5 | 5.5 | | 15 | 5.5 | 1.6 | 0.5 | 0.16 | | | | | | | | |
| 30 | 0.50 | 1.8 | 6.6 | | 22 | 8 | 2.2 | 0.65 | 0.23 | | | | | | | | |
| 40 | 0.66 | 2.4 | 8.8 | | 40 | 13 | 4 | 1.2 | 0.4 | 0.1 | | | | | | | |
| 50 | 0.83 | 3 | 11 | | 60 | 21 | 6 | 1.8 | 0.6 | 0.16 | | | | | | | |
| 60 | 1 | 3.6 | 13.2 | | 75 | 28 | 8 | 2.4 | 0.85 | 0.22 | | | | | | | |
| 70 | 1.16 | 4.2 | 15.4 | | | 40 | 11.5 | 3.2 | 1.15 | 0.3 | 0.11 | | | | | | |
| 80 | 1.33 | 4.8 | 17.6 | | | 54 | 14.5 | 4.5 | 1.5 | 0.4 | 0.14 | | | | | | |
| 90 | 1.5 | 5.4 | 19.8 | | | 65 | 18 | 5.3 | 1.8 | 0.48 | 0.16 | | | | | | |
| 100 | 1.66 | 6 | 22 | | | 77 | 22 | 6.5 | 2.2 | 0.52 | 0.2 | | | | | | |
| 120 | 2 | 7.2 | 26.4 | | | | 30 | 9 | 3 | 0.8 | 0.3 | | | | | | |
| 140 | 2.33 | 8.4 | 30.7 | | | | 42 | 12 | 4.2 | 1.1 | 0.38 | 0.13 | | | | | |
| 160 | 2.66 | 9.6 | 35.1 | | | | 53 | 16 | 5.3 | 1.4 | 0.5 | 0.17 | | | | | |
| 180 | 3 | 10.8 | 39.5 | | | | 65 | 20 | 6.5 | 1.7 | 0.6 | 0.21 | | | | | |
| 200 | 3.33 | 12 | 43.9 | | | | 78 | 24 | 8 | 2.1 | 0.72 | 0.26 | | | | | |
| 220 | 3.66 | 13.2 | 48.3 | | | | 90 | 26.5 | 9 | 2.4 | 0.84 | 0.3 | 0.1 | | | | |
| 240 | 4 | 14.4 | 52.7 | | | | | 33 | 11.3 | 3 | 1.1 | 0.37 | 0.12 | | | | |
| 260 | 4.33 | 15.6 | 57.1 | | | | | 40 | 13.5 | 3.5 | 1.22 | 0.43 | 0.14 | | | | |
| 280 | 4.66 | 16.8 | 61.5 | | | | | 45 | 15 | 4 | 1.4 | 0.48 | 0.16 | | | | |
| 300 | 5 | 18 | 65.9 | | | | | 51 | 17 | 4.5 | 1.6 | 0.51 | 0.18 | | | | |
| 350 | 5.83 | 21 | 76.9 | | | | | 68 | 24 | 6 | 2.1 | 0.75 | 0.24 | | | | |
| 400 | 6.66 | 24 | 87.8 | | | | | 87 | 29 | 7.8 | 2.65 | 0.95 | 0.31 | 0.12 | | | |
| 450 | 7.5 | 27 | 98.8 | | | | | | 38 | 9.6 | 3.3 | 1.18 | 0.38 | 0.15 | | | |
| 500 | 8.33 | 30 | 110 | | | | | | 45 | 11.8 | 4.2 | 1.4 | 0.47 | 0.18 | | | |
| 550 | 9.16 | 33 | 121 | | | | | | 55 | 14 | 5 | 1.7 | 0.51 | 0.21 | | | |
| 600 | 10 | 36 | 132 | | | | | | 64 | 16.5 | 5.5 | 2 | 0.65 | 0.25 | | | |
| 700 | 11.6 | 42 | 154 | | | | | | 87 | 23 | 8 | 2.8 | 0.9 | 0.32 | | | |
| 800 | 13.3 | 48 | 176 | | | | | | | 30 | 10.5 | 3.5 | 1.18 | 0.44 | 0.11 | | |
| 1000 | 16.6 | 60 | 220 | | | | | | | 44 | 15 | 5.3 | 1.8 | 0.65 | 0.16 | | |
| 1200 | 20 | 72 | 264 | | | | | | | 62 | 22 | 7.5 | 2.5 | 0.95 | 0.22 | | |
| 1400 | 23.3 | 84 | 307 | | | | | | | 81 | 28.5 | 10 | 3.25 | 1.25 | 0.3 | 0.1 | |
| 1600 | 26.6 | 96 | 351 | | | | | | | | 37.5 | 13 | 4.3 | 1.6 | 0.38 | 0.13 | |
| 1800 | 30 | 108 | 395 | | | | | | | | 46 | 16 | 5.3 | 2 | 0.47 | 0.16 | |
| 2000 | 33.3 | 120 | 439 | | | | | | | | 56.5 | 19.5 | 6.5 | 2.4 | 0.58 | 0.19 | |
| 2200 | 36.6 | 132 | 483 | | | | | | | | 65 | 23 | 7.7 | 2.9 | 0.7 | 0.23 | |
| 2400 | 40 | 144 | 527 | | | | | | | | 75 | 27 | 9 | 3.3 | 0.81 | 0.27 | 0.11 |
| 2600 | 43.3 | 156 | 571 | | | | | | | | | 32 | 10.7 | 4 | 0.98 | 0.32 | 0.13 |
| 2800 | 46.6 | 168 | 615 | | | | | | | | | 37 | 12 | 4.5 | 1.1 | 0.37 | 0.15 |
| 3000 | 50 | 180 | 659 | | | | | | | | | 42 | 14 | 5.25 | 1.22 | 0.42 | 0.17 |
| 3500 | 58.3 | 210 | 769 | | | | | | | | | 56 | 18 | 6.8 | 1.65 | 0.55 | 0.22 |
| 4000 | 66.6 | 240 | 878 | | | | | | | | | 73 | 24 | 8.8 | 2.15 | 0.7 | 0.29 |
| 4500 | 75 | 270 | 988 | | | | | | | | | | 30 | 11 | 2.7 | 0.9 | 0.37 |
| 5000 | 83.3 | 300 | 1098 | | | | | | | | | | 37 | 14 | 3.3 | 1.1 | 0.45 |

***Figures based on new cast iron pipe. Correction factors for other pipe materials and conditions.**

For pressure loss in PVC pipes multiply by 0.6 - New steel pipes multiply by 0.8

Slightly rusty steel pipes multiply by 1.25 - Encrusted pipes multiply by 1.7