



Flow and Pressure Chart

APPROXIMATE PRESSURES AND FLOWS SUGGESTED FOR POLY PIGGING

| NOMINAL PIPE I.D. | PRESSURE | | LIQUID FLOW | | | GASEOUS FLOW | | 3 M/M |
|-------------------|----------|-----------|-------------|-----------------|-------------------|-----------------|----------|----------------|
| | PSIG | BARS | GPM* | LPM | (SCFM) | 5" 30 PSI | 10 45 | |
| 2" | 5.0 cm | 100 - 200 | 7.0 - 14.0 | 30 - 50 | 113 - 189 | 21 - 56 | | .59 - 1.5 |
| 3" | 7.6 cm | 10 - 150 | 7.0 - 10.5 | 70 - 100 | 264 - 378 | 46 - 124 | | 1.3 - 3.51 |
| 4" | 10.0 cm | 75 - 125 | 5.2 - 8.8 | 120 - 200 | 454 - 757 | 80 - 215 | | 2.2 - 6.08 |
| 6" | 15.2 cm | 50 - 100 | 3.5 - 7.0 | 250 - 450 | 946 - 1703 | 182 - 340 | | 5.1 - 9.62 |
| 8" | 20.0 cm | 30 - 80 | 2.1 - 5.6 | 450 - 800 | 1703 - 3028 | 316 - 849 | | 8.9 - 24.0 |
| 10" | 25.4 cm | 20 - 60 | 1.4 - 4.2 | 750 - 1250 | 2838 - 4731 | 499 - 1341 | | 14.1 - 38.0 |
| 12" | 30.4 cm | 10 - 50 | 0.7 - 3.5 | 1000 - 1800 | 3785 - 6813 | 715 - 1921 | | 20.2 - 54.4 |
| 14" | 35.4 cm | 10 - 40 | 0.7 - 2.8 | 1400 - 2500 | 5299 - 9463 | 873 - 2345 | | 24.7 - 66.4 |
| 16" | 40.6 cm | 5 - 35 | 0.35 - 2.4 | 1800 - 3000 | 6813 - 11,355 | 1158 - 3108 | | 32.8 - 88.0 |
| 18" | 45.4 cm | 5 - 30 | 0.35 - 2.1 | 2000 - 4000 | 7570 - 15,140 | 1477 - 3965 | | 41.8 - 112.28 |
| 20" | 50.5 cm | 5 - 25 | 0.35 - 1.7 | 2800 - 5000 | 10,598 - 18,925 | 1842 - 4944 | | 52.1 - 140.0 |
| 22" | 55.0 cm | 5 - 25 | 0.35 - 1.7 | 3000 - 6000 | 11,355 - 22,710 | 2243 - 6022 | | 63.5 - 170.54 |
| 24" | 60.0 cm | 5 - 20 | 0.35 - 1.4 | 4000 - 7000 | 15,140 - 26,495 | 2690 - 7221 | | 76.1 - 204.5 |
| 26" | 65.2 cm | 5 - 20 | 0.35 - 1.4 | 5000 - 8000 | 18,925 - 30,280 | 3173 - 8519 | | 89.8 - 241.25 |
| 28" | 70.0 cm | 5 - 20 | 0.35 - 1.4 | 6000 - 9000 | 22,710 - 34,065 | 3693 - 9814 | | 104.6 - 277.93 |
| 30" | 76.2 cm | 5 - 10 | 0.35 - 0.7 | 7000 - 11,000 | 29,710 - 41,635 | 4259 - 11,432 | | 120.6 - 323.7 |
| 36" | 91.4 cm | 5 - 10 | 0.35 - 0.7 | 10,000 - 16,000 | 37,850 - 60,560 | 4860 - 12,448 | | 137.6 - 352.5 |
| 40" | 101.6 cm | 5 - 10 | 0.35 - 0.7 | 12,000 - 20,000 | 45,420 - 75,700 | 5140 - 15,422 | | 145.6 - 436.8 |
| 42" | 106.6 cm | 5 - 10 | 0.35 - 0.7 | 13,000 - 22,000 | 49,205 - 83,270 | 5679 - 17,038 | | 160.8 - 482.5 |
| 48" | 121.9 cm | 5 - 10 | 0.35 - 0.7 | 17,000 - 27,500 | 64,345 - 104,087 | 6242 - 22,362 | | 176.7 - 633.3 |
| 54" | 137.1 cm | 5 - 10 | 0.35 - 0.7 | 22,000 - 38,000 | 83,270 - 143,830 | 9,733 - 29,192 | | 275.6 - 826.7 |
| 60" | 152.4 cm | 5 - 10 | 0.35 - 0.7 | 26,000 - 42,000 | 98,410 - 158,970 | 11,720 - 35,159 | | 331.9 - 995.7 |
| 72" | 182.9 cm | 5 - 10 | 0.35 - 0.7 | 37,000 - 65,000 | 140,045 - 246,025 | 17,304 - 51,903 | | 490.0 - 1469.8 |

G.P.M. = Based on 3 and 5 FPS (feet per second) velocity

S.C.F.M. - Based on 5 FPS @ 30 PSI and 10 FPS @ 45 PSI

PSIG = Differential Pressure

(Formula for SCFM Calculation $\text{ft}^3 / \text{ft} \times \text{PSI in atmospheres} \times \text{FPM cubic feet of volume per linear foot of pipe} \times \text{atmospheres} (14.7 \text{ PSI} \times \text{feet per minute}$

NOTE: Volumes and pressures are recommendations only. NOT TO BE CONSIDERED AS ABSOLUTE REQUIREMENTS.
Requirements will vary according to type of pipe, fluid, gas, materials in pipe, viscosity, temperature, etc.