



PIGGING FLOW & PRESSURE GUIDE

PRODUCTS

- Pipeline Pigs
- Active Speed Control Pigs
- Pig Accessories
- Tracking Equipment
- Product Recovery Systems
- Hot Tap & Line Stop Fittings

SERVICES

- Hot Tapping & Plugging
- Pipe Freezing
- Equipment Maintenance
- Operator Training & Qualification

INDUSTRIES

- Oil & Gas
- Water Treatment
- Chemical Processing
- Food & Beverage
- Pharmaceutical

Inline Services

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TEXAS

27731 Commercial Pk. Rd.

Tomball, TX 77375

OKLAHOMA

5454 S. 99th E. Ave.

Tulsa, OK 74146

| PIPE DIAMETER | GALLON PER FT | FT ³ PER FOOT | PRESSURE (PSIG) | LIQUID FLOW | | GASEOUS FLOW | |
|---------------|---------------|--------------------------|-----------------|-------------|-------------|----------------|-----------------|
| | | | | GPM @ 3 FPS | GPM @ 5 FPS | 5 FPS @ 30 PSI | 10 FPS @ 45 PSI |
| 2" | 0.16 | 0.02 | 100- 200 | 30 | 50 | 12 | 36 |
| 3" | 0.37 | 0.05 | 100- 150 | 70 | 100 | 30 | 92 |
| 4" | 0.65 | 0.09 | 75-125 | 120 | 200 | 52 | 158 |
| 6" | 1.47 | 0.20 | 50-100 | 250 | 450 | 120 | 360 |
| 8" | 2.61 | 0.35 | 30-80 | 450 | 800 | 214 | 642 |
| 10" | 4.08 | 0.55 | 20-60 | 750 | 1,250 | 336 | 1,010 |
| 12" | 5.88 | 0.79 | 10-50 | 1,000 | 1,800 | 483 | 1,450 |
| 14" | 8.00 | 1.07 | 10-40 | 1,400 | 2,500 | 655 | 1,965 |
| 16" | 10.40 | 1.37 | 5-35 | 1,800 | 3,000 | 838 | 2,515 |
| 18" | 13.20 | 1.76 | 5-30 | 2,000 | 4,000 | 1,077 | 3,232 |
| 20" | 16.30 | 2.18 | 5-25 | 2,800 | 5,000 | 1,334 | 4,002 |
| 22" | 19.80 | 2.64 | 5-25 | 3,000 | 6,000 | 1,616 | 4,847 |
| 24" | 23.50 | 3.14 | 5-20 | 4,000 | 7,000 | 1,922 | 5,765 |
| 26" | 27.60 | 3.69 | 5-20 | 5,000 | 8,000 | 2,258 | 6,775 |
| 28" | 32.00 | 4.27 | 5-10 | 6,000 | 9,000 | 2,613 | 7,840 |
| 30" | 36.70 | 4.90 | 5-10 | 7,000 | 11,000 | 3,000 | 8,996 |
| 36" | 52.90 | 7.02 | 5-10 | 10,000 | 16,000 | 4,296 | 12,888 |
| 40" | 65.27 | 8.73 | 5-10 | 12,000 | 20,000 | 5,343 | 16,028 |
| 42" | 71.88 | 9.61 | 5-10 | 13,000 | 22,000 | 5,881 | 17,644 |
| 48" | 94.02 | 12.57 | 5-10 | 17,000 | 27,500 | 7,693 | 23,079 |
| 54" | 118.93 | 15.90 | 5-10 | 22,000 | 38,000 | 9,730 | 29,192 |
| 60" | 146.87 | 19.63 | 5-10 | 26,000 | 42,000 | 12,014 | 36,041 |
| 72" | 211.46 | 28.27 | 5-10 | 37,000 | 65,000 | 17,304 | 51,903 |

GPM = based on 3 and 5 fps (feet per second) velocity

SCFM = based on 5 fps @ 30 psi and 10 fps @ 45 psi

PSIG = differential pressure

Formula for SCFM calculation = cubic foot of volume per linear foot of pipe, times PSI in atmospheres (14.7), times FPM.

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, smoothness of pipe, viscosity, temperature, etc.