



TECH TIP #48

NATURAL GAS PIPE SIZING

CAPACITY OF PIPE—NATURAL GAS (CFH)

With Pressure Drop of 0.3" and Specific Gravity of 0.60

Pipe Length in Feet	Pipe Size—Inches (IPS)								
	½	¾	1	1¼	1½	2	2½	3	4
10	132	278	520	1050	1600	3050	4800	8500	17500
20	92	190	350	730	1100	2100	3300	5900	12000
30	73	152	285	590	890	1650	2700	4700	9700
40	63	130	245	500	760	1450	2300	4100	8200
50	56	115	215	440	670	1270	2000	3600	7400
60	50	105	195	400	610	1150	1850	3250	6300
70	46	96	180	370	560	1050	1700	3000	6200
80	43	90	170	350	530	990	1600	2800	5800
90	40	84	160	320	490	930	1500	2600	5400
100	38	79	150	305	460	870	1400	2500	5100
125	34	72	130	275	410	780	1250	2200	4500
150	31	64	120	250	380	710	1130	2000	4100
175	28	59	110	225	350	650	1050	1850	3800
200	26	55	100	210	320	610	980	1700	3500

MULTIPLIERS USED WITH ABOVE TABLE

Use When Specific Gravity is not 0.60

Pressure Drop not 0.3"

Specific Gravity	Multiplier	Specific Gravity	Multiplier	Specific Gravity	Multiplier	Pressure Drop	Multiplier
0.50	1.10	0.90	.817	PROPANE		0.1	.577
0.55	1.04	1.00	.775	1.55	.622	0.2	.615
0.60	1.00	PROPANE-AIR		1.60	.612	0.3	1.00
0.65	.962	1.10	.740	1.70	.594	0.5	1.29
0.70	.926	1.20	.707	1.80	.577	1.0	1.83
0.75	.895	1.30	.680	1.90	.565	2.0	2.58
0.80	.867	1.40	.655	BUTANE		3.0	3.16
0.85	.841	1.50	.632	2.00	.547	4.0	3.65

NOTES
