APPROXIMATE PRESSURES AND FLOWS SUGGESTED FOR POLY PIGGING

NOMINAL PIPE I.D.		PRESSURE PSIG	PRESSURE BARS	LIQUID FLOW GPM*	LIQUID FLOW LPM	(SCFM) GASEOUS FLOW 5* 10 30 PSI 45	3 M/M
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 ft 3 / ft x PSI in atmospheres x FPM cubic feet of volume per linear foot of pipe x atmospheres (14.7 PSI x 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.