Table 1. Thrust Developed Per 100 P.S.I. Pressure (lbs. force)

Pipe Size	Fitting 90 Elbow	Fitting 45 Elbow	Valves, Tees, Dead Ends
1 1/2	300	200	200
2	500	300	400
3	1,000	600	800
4	1,800	1,100	1,300
6	4,000	2,300	2,900
8	7,200	4,100	5,100
10	11,200	6,300	7,900
12	16,000	9,100	11,300

Note: Thrusts from greater or lesser pressures may be proportioned.

Table 2. Estimated Soil Bearing Capability

Soil Type	lbs/ft
Muck, Peat, etc	0
Soft Clay	500
Sand	1,000
Sand and Gravel	1,500
Sand and Gravel with Clay	2,000
Sand and Gravel with Cemented with Clay	4,000
Hard Plan	5,000

Note: Values are estimated for horizontal thrusts at depths of burial which exceed 2 ft.