GAS SERVICE CAPACITY

SERVICE SIZE (IN)	MAXIMUM LOAD CAPACITY (CFH)
3/4	1500
1	2800
1 1/4	5300
2	13900
4	89500

CAPACITY DETERMINED BY THE MUELLER FLOW EQUATION FOR SMOOTH WALL PIPE AT PRESSURES GREATER THAN 1 PSIG. SET MINIMUM 5 PSIG OPERATING PRESSURE AT THE REGULATOR, ALLOW A MAXIMUM PRESSURE DROP IN THE SERVICE LINE OF 2 PSIG, AND SET THE SERVICE LENGTH AT 150'.

$$Q_h = \frac{2826}{G^{0.425}} \left[\frac{P_1^2 - P_2^2}{l} \right]^{0.575} \times d^{2.725}$$

Q_h = GAS FLOW RATE (STD. CU. FT. PER HOUR)

G = SPECIFIC GRAVITY OF GAS (AIR=1.0, NAT GAS=0.585)

P_1 = INLET PRESSURE (PSIA)

P_2 = OUTLET PRESSURE (PSIA)

l = LENGTH OF PIPE (FEET)

d = PIPE INTERNAL DIAMETER (INCHES)