

# 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)



**ENGINEERING & CONSTRUCTION STANDARD**

**SECTION 6 GAS METERING GUIDELINES  
GAS SERVICE CAPACITY TABLE**

SHEET 9 OF 21

DRAWING NUMBER

**GM0035G**

DRAWN	DESIGN	SUPR	DATE	REV
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