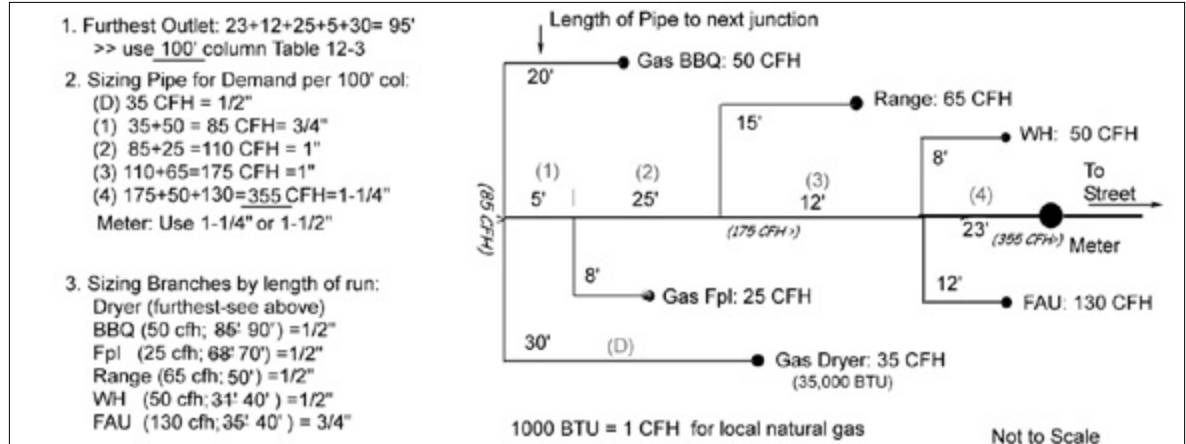


GAS LINE SIZING WORKSHEET

An Inspector may ask for this completed worksheet to verify the sizing of a gas pipe project; see [Gas Lines & Piping](#).
INSTRUCTIONS: Using the Example Diagram and Table 12-3, draw your own diagram, showing gas appliance locations and the needed pipe lengths. Then, according to your diagram, fill in the Sizing Worksheet below or replicate it.

EXAMPLE DIAGRAM



UPC TABLE 12-3: SIZE OF GAS PIPING (LOW PRESSURE)

Pipe Size (inches)	Columns Show Maximum Length of Pipe Section (feet)											
	10	20	30	40	50	60	70	80	90	100	125	150
1/2	174	119	96	82	73	66	61	56	53	50	44	40
3/4	363	249	200	171	152	138	127	118	111	104	93	84
1	684	470	377	323	286	259	239	222	208	197	174	158
1-1/4	1404	965	775	663	588	532	490	456	428	404	358	324
1-1/2	2103	1445	1161	993	880	798	734	683	641	605	536	486
2	4050	2784	2235	1913	1696	1536	1413	1315	1234	1165	1033	936
2-1/2	6455	4437	3563	3049	2703	2449	2253	2096	1966	1857	1646	1492
3	11,412	7843	6299	5391	4778	4329	3983	3705	3476	3284	2910	2637

The table shows maximum delivery capacity of Cubic Feet per Hour (CFH) of IPS Pipe carrying Natural Gas of 0.60 Specific Gravity, based on a Pressure Drop 0.5 inch water column.
10,000 BTU = 10 CFH
Divide Watts by 293 = CFH

1/2" and 3/4" pipe are the most common residential size, shown in bold, with 1" to 1-1/4" at the meter. For a future pool heater, install a larger meter.

Use the red column number that is large enough to accommodate the total footage.

a + b + c + d + e

1. Furthest Outlet (in feet) = total feet:

From Table 12-3, use the red column number that is large enough to accommodate equal to or the next higher number.

2. Sizing the Pipe for Demand - using red column #: _____

- For each labelled length of pipe on your diagram, sequentially add CFH capacity. See Example Diagram.
- First Entry (D): Does not involve addition so a zero is entered in the second column.
- Last Entry is the calculation for the Meter Size: Add together the WH CFH and FAU CFH for Total CFH.

Label of Pipe	Length	+	Length	=	CFH	Enter Pipe Size
(D)			0			
(1)						
(2)						
(3)						

Total Pipe Demand	+	WH CFH	+	FAU CFH	=	TOTAL CFH	Enter Meter Size

3. Branch Sizes - On your diagram, round up measurements to the nearest column number in Table 12-3.