

**Pressure Drop Reference Chart Acetylene**

**Pressure Drop Reference Chart**

PRESSURE DROP IN ACETYLENE HOSE																	
Delivery Pressure LB. PER SQ. IN.	SCFH Fuel Gas Flow	Pressure Drop LB. per SQ. In															
		3/16" Hose				1/4" Hose				5/16" Hose				3/8" Hose			
		Hose Length in Feet															
		12 1/2	25	50	100	12 1/2	25	50	100	12 1/2	25	50	100	12 1/2	25	50	100
5	25	0.3	0.5	1.0	1.8	**	**	0.5	0.8	**	**	**	0.3	**	**	**	**
	50	1.2	2.0	3.2		0.5	0.9	1.3	2.4	**	0.3	0.4	0.7	**	**	0.3	0.4
	75	2.6	3.9			1.2	1.8	2.6	4.5	0.4	0.5	0.8	1.4	**	0.3	0.5	0.8
	100	4.3				1.9	2.8	4.4		0.5	0.8	1.3	2.4	0.3	0.4	0.7	1.1
	150					4.0				1.2	1.7	2.7	4.8	0.5	0.8	1.2	2.2
10	25	0.3	0.5	0.8	1.4	**	**	0.3	0.7	**	**	**	**	**	**	**	**
	50	0.9	1.6	2.5	4.9	0.5	0.7	1.1	2.0	**	**	0.3	0.6	**	**	**	0.3
	75	2.0	3.1	6.3		0.9	1.4	2.2	3.7	0.3	0.4	0.5	0.6	**	**	0.3	0.6
	100	4.5	5.4			1.6	2.0	3.6	6.0	0.4	0.6	0.9	2.2	**	0.3	0.5	1.9
	150	7.0				3.2	4.5	7.3		0.9	1.3	2.1	3.9	0.4	0.6	1.0	2.5
	500					8.1				2.3	3.5	5.2	9.8	0.9	1.4	2.5	4.4
14	25	**	0.4	0.7	1.3	**	**	0.3	0.6	**	**	**	**	**	**	**	**
	50	0.8	1.4	2.4	4.6	0.4	0.6	0.9	1.6	**	**	**	0.4	**	**	**	0.3
	75	1.9	2.9	3.0	10.0	0.8	1.2	1.9	3.0	**	0.3	0.5	1.0	**	**	0.3	0.5
	100	3.5	5.1			1.4	2.0	3.0	4.7	0.3	0.6	0.7	1.7	**	0.3	0.4	0.8
	150	7.9				2.9	4.0	6.0	8.7	0.8	1.2	1.7	3.4	0.3	0.5	0.9	1.6
	500					7.4	9.5			2.0	3.1	4.5	8.1	0.7	1.2	2.3	3.8
										8.7	10.5	13.7		2.9	4.0	8.1	11.5

**Note:** To obtain the recommended inlet pressure at the apparatus, add the pressure drop figure (shown above) to the delivery pressure at the regulator. Do not exceed 15 PSIG for acetylene.

\*\* Indicates pressure drop of less than 0.2 per sq. in.

**Reference Notes**

