

PRESSURE DROP IN OXYGEN HOSE																	
Delivery Pressure LB. PER SQ. IN.	Oxygen Flow SCFH	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
10	100	5.0	6.3				2.0	3.8	6.0	*	*	*	2.3	*	*	*	2.0
	250					9.4				2.7	4.1	5.9		*	*	3.3	6.4
25	100	3.6	5.7	8.2	13.4	*	*	2.9	4.3	*	*	*	*	*	*	*	*
	250	13.2	18.3			6.3	7.9	11.7	16.8	*	2.4	3.2	6.7	*	*	*	3.7
	500					21.5				6.3	8.7	12.1	19.9	2.7	4.6	6.9	11.9
50	100	2.0	3.4	5.9	9.3	*	*	2.0	2.7	*	*	*	*	*	*	*	*
	250	8.0	12.6	19.4		2.7	5.0	7.9	11.0	*	*	2.2	3.9	*	*	*	2.6
	500					14.1	18.2			3.4	5.9	7.7	13.3	*	2.9	4.7	8.0
	750									8.8	12.3	17.8		3.8	6.0	9.8	10.9
75	100	*	2.6	3.8	7.1	*	*	*	2.8	*	*	*	*	*	*	*	*
	250	6.0	9.4	13.3	23.1	3.0	3.8	6.0	8.2	*	*	*	2.8	*	*	*	2.0
	500	19.7				10.7	13.8	19.8		2.5	3.9	6.3	9.4		2.0	3.4	5.9
	750					22.5				6.6	8.8	13.7	18.8	2.7	4.1	7.0	12.2
	1000									11.8	14.7	22.6		4.9	6.9	12.0	20.3
100	100	*	*	2.7	4.6	*	*	*	*	*	*	*	*	*	*	*	*
	250	4.7	6.7	10.3	16.9	2.2	2.8	4.3	6.0	*	*	*	2.2	*	*	*	*
	500	14.1	21.0			8.1	10.8	15.0	21.2	2.0	2.9	4.4	7.1	*	*	2.1	4.6
	750					17.7	23.0	32.3	42.8	4.7	6.9	10.3	15.4	*	2.9	4.9	8.7
	1,000					31.0	37.0	53.0	68.5	8.6	11.8	17.4		3.1	5.2	8.8	14.4
	1,500					65.5	82.0			19.1				7.7	11.8	19.4	

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 2.0 per sq. in.

Reference Notes