ACETYLENE CYLINDER FILLING - SETTLED PRESSURE

Table I - (Data for Fig. I) - Acetylene Cylinder Settled Pressure vs Temperature

When Temperature Is (oF)	Settled Pressure Must Not Exceed (psi)	When Temperature Is "(oF)	Pressure Must Not Exceed (psi)	When Temperature Is (oF)	Settled Pressure Must Not Exceed (psi)	When Temperature Is (oF)	Settled Pressure Must Not Exceed (psi)	When Temperature Is (oF)	Settled Pressure Must Not Exceed (psi)
30	136	50	190	70	250	90	315	110	390
31	139	51	193	71	253	91	319	111	394
32	141	52	196	72	256	92	323	112	398
33	144	53	199	73	259	93	326	113	402
34	146	54	202	74	262	94	329	114	406
35	149	55	205	75	265	95	333	115	410
36	152	56	208	76	269	96	336	116	414
37	155	57	211	77	272	97	340	117	418
38	157	58	214	7B	275	98	344	11B	423
39	160	59	217	79	278	99	347	119	42B
40	162	60	220	80	282	100	351	120	432
41	165	61	223	8I	2B5	101	355	121	437
42	168	62	225	82	288	102	358	122	441
43	171	63	228	83	292	103	362	123	446
44	174	64	231	84	295	104	366	124	450
45	176	65	234	85	298	105	370	125	454
46	179	66	237	86	302	106	374	126	459
47	182	67	240	87	305	107	378	127	464
48	185	68	243	88	308	108	382	128	469
49	188	69	247	89	312	109	386	129	474
"								130	478

Note that in normal operating temperatures, for every 1° drop in temperature, Acetylene pressure drops an average of 3 psig. When operating an Oxy-Acetylene torch in colder weather, it is normal for the Acetylene pressure in your cylinder to drop. You are not losing product, only pressure. To gain pressure, move your Acetylene cylinders to a warmer, safe environment.

Never store Acetylene cylinders in your home or occupied buildings. Never use torches or other radiant heat to warm an Acetylene cylinder. Acetylene is extremely volatile and will explode violently if misused. Always observe National Fire Protection Association (NFPA) and local guidelines for storage and transporting industrial cylinders.