

Copper Tube Sizing Between Second-Stage and Appliance – LPG

MAXIMUM UNDILUTED PROPANE CAPACITIES BASED ON 11-INCHES W.C. SETTING AND 0.5-INCH W.C. PRESSURE DROP. CAPACITIES ARE IN 1000 BTU PER HOUR

TYPE	ACR (REFRIGERATION)					TYPE L TUBING				
	3/8-inch	1/2-inch	5/8-inch	3/4-inch	7/8-inch	3/8-inch	1/2-inch	5/8-inch	3/4-inch	7/8-inch
Outside	0.375	0.500	0.625	0.750	0.875	0.375	0.500	0.625	0.750	0.875
Inside	0.311	0.436	0.555	0.68	0.785	0.315	0.430	0.545	0.666	0.785

Length (ft.)	3/8-inch	1/2-inch	5/8-inch	3/4-inch	7/8-inch	3/8-inch	1/2-inch	5/8-inch	3/4-inch	7/8-inch
10	47	115	216	368	536	49	110	200	348	535
20	32	79	148	253	368	34	76	141	239	368
30	26	63	119	203	296	27	61	113	192	296
40	22	54	102	174	253	23	52	97	164	253
50	20	48	90	154	224	20	46	86	146	224
60	18	43	82	139	203	19	42	78	132	203
80	15	37	70	119	174	16	36	67	113	174
100	14	33	62	106	154	14	32	59	100	154
125	12	29	55	94	137	12	28	52	89	137
150	11	26	50	85	124	11	26	48	80	124
200	9	23	43	73	106	10	22	41	69	100
250	8	20	38	64	94	9	19	36	61	94
300	8	18	34	58	85	8	18	33	55	85
350	7	17	32	54	78	7	16	30	51	78
400	6	16	29	50	73	7	15	28	47	73

DATA TAKEN AND REPRINTED FROM TABLE 15.1(L) AND 15.1(J) IN NFPA 58, 2007 ED. ALWAYS CHECK WWW.NFPA.ORG FOR THE LATEST UPDATES.

Pipe Sizing Between Second-Stage (Low Pressure Regulator) And Appliance – LPG

MAXIMUM UNDILUTED PROPANE CAPACITIES BASED ON 11-INCHES W.C. SETTING AND 0.5-INCH W.C. PRESSURE DROP. CAPACITIES ARE IN 1000 BTU PER HOUR

PIPING LENGTH, FEET	Schedule 40 Pipe Size, inches (Actual Inside Diameter, inches)								
	1/2-INCH NPT (0.622-INCH)	3/4 NPT (0.824-INCHES)	1NPT (1.049-INCHES)	1-1/4 NPT (1.38-INCHES)	1-1/2 NPT (1.61-INCHES)	2 NPT (2.067-INCHES)	3 NPT (3.068-INCHES)	3-1/2 NPT (3.548-INCHES)	4 NPT (4.026-INCHES)
10	291	608	1146	2352	3523	6789	19130	28008	39018
20	206	418	788	1617	2423	4696	13148	19250	26817
30	161	336	632	1299	1946	3747	10558	15458	21535
40	137	287	541	1111	1665	3207	9036	13230	18431
50	122	255	480	985	1476	2842	8009	11726	16335
60	110	231	435	892	1337	2575	7256	10625	14801
80	94	198	372	764	1144	2204	6211	9093	12668
100	84	175	330	677	1014	1954	5504	8059	11227
125	74	155	292	600	899	1731	4878	7143	9950
150	67	141	265	544	815	1569	4420	6472	9016
200	58	120	226	465	697	1343	3783	5539	7716
250	51	107	201	412	618	1190	3353	4909	6839
300	46	97	182	373	560	1078	3038	4448	6196
350	43	89	167	344	515	992	2795	4092	5701
400	40	83	156	320	479	923	2600	3807	5303

DATA TAKEN AND REPRINTED FROM TABLE 15.1(C) IN NFPA 58, 2007 ED. ALWAYS CHECK WWW.NFPA.ORG FOR THE LATEST UPDATES.

NATURAL GAS Schedule 40 Pipe Sizing

Specific Gravity 0.60 Inlet Pressure: Less than 2 psi Pressure Drop: 0.5 in. wc.

NOMINAL PIPE SIZE (IN.)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
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CAPACITY IN CUBIC FEET OF GAS PER HOUR (APPROX 1000 BTU PER CU.FT.)

Length (ft.)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"
10	172	360	678	1399	2090	4020	6400
20	118	247	466	957	1430	2760	4400
30	95	199	374	768	1150	2220	3530
40	81	170	320	657	985	1900	3020
50	72	151	284	583	873	1680	2680
60	65	137	257	528	791	1520	2430
70	60	126	237	486	728	1400	2230
80	56	117	220	452	677	1300	2080
90	52	110	207	424	635	1220	1950
100	50	104	195	400	600	1160	1840
125	44	92	173	355	532	1020	1630
150	40	83	157	322	482	928	1480
175	37	77	144	296	443	854	1360
200	34	71	134	275	412	794	1270
250	30	63	119	244	366	704	1120