

Pipe Sizing Between First-Stage and Second-Stage Regulators

Minimum undiluted propane capacities listed are based on a 10 psig first stage setting and 1 psig pressure drop.
Capacities in 1,000 Btu/hr.

Tubing Length, Ft.	Refrigeration Tubing Nominal Size (outside diameter)					Copper Tubing Type L Nominal Size (outside diameter)				
	3/8" (.0375)	1/2" (.500)	5/8" (.0625)	3/4" (.750)	7/8" (.875)	1/4" (.375)	3/8" (.500)	1/2" (.625)	5/8" (.750)	3/4" (.875)
30	299	726	1367	2329	3394	309	700	1303	2205	3394
40	256	621	1170	1993	2904	265	599	1115	1887	2904
50	227	551	1037	1766	2574	235	531	988	1672	2574
60	206	499	939	1600	2332	213	481	896	1515	2332
70	189	459	864	1472	2146	196	443	824	1394	2146
80	176	427	804	1370	1996	182	412	767	1297	1996
90	165	401	754	1285	1873	171	386	719	1217	1873
100	156	378	713	1214	1769	161	365	679	1149	1769
150	125	304	572	975	1421	130	293	546	923	1421
200	107	260	490	834	1216	111	251	467	790	1216
250	95	230	434	739	1078	90	222	414	700	1078
300	86	209	393	670	976	89	201	375	634	976
350	79	192	362	616	898	82	185	345	584	898
400	74	179	337	573	836	76	172	321	543	836
450	69	168	316	538	784	71	162	301	509	784
500	65	158	298	508	741	68	153	284	481	741
600	59	144	270	460	671	61	138	258	436	671
700	54	132	249	424	617	56	127	237	401	617
800	51	123	231	394	574	52	118	221	373	574
900	48	115	217	370	539	49	111	207	350	539
1000	45	109	205	349	509	46	105	195	331	509
1500	36	87	165	281	409	37	84	157	266	409
2000	31	75	141	240	350	32	72	134	227	350

To convert to capacities at 5 psig setting with 10% (0.5 psig) pressure drop, multiply values by 0.606. To convert to capacities at 15 psig setting with 10% (1.5 psig) pressure drop, multiply values by 1.380.

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