Type K Copper Line Sizing Chart - Normal State Liquid Flow in Gallons per Hour

Maximum capacity of Type K Copper or SCH 40 iron pipe in GPH of LP Gas. Based on 1 psig pressure drop and 0° F.

Size of Type K Copper or SCH 40 Pipe		Length of Pipe, Feet									
Copper Tubing	**ID**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
	1/4"	79	55	45	39	35	32	29	27	26	24
	3/8"	164	116	95	82	73	67	62	58	54	52
	1/2"	330	233	190	165	147	134	124	116	110	104
	5/8"	569	402	328	284	254	232	215	201	189	180
	3/4"	801	566	462	400	358	327	302	283	267	253
	1"	1587	1193	974	843	754	689	637	596	562	533

Pipe Size	**ID**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
	1/2"	330	234	222	162	150	132	126	114	108	105
	3/4"	696	492	402	348	312	282	264	246	228	222
	1"	1356	954	780	678	606	552	516	480	450	426
	1 1/4"	2748	1944	1590	1374	1230	1122	1044	9723	918	870
	1 1/2"	4092	2892	2364	2046	1830	1668	1548	1452	1362	1296
	2"	7884	5574	4548	3942	3534	3222	2982	2790	2628	2490

Copper Tubing	**ID**	**125**	**150**	**175**	**200**	**225**	**250**	**275**	**300**	**350**	**400**
	1/4"	22	—	—	—	—	—	—	—	—	—
	3/8"	46	42	39	36	34	32	31	30	27	26
	1/2"	93	85	79	73	69	66	63	60	55	52
	5/8"	161	147	136	127	120	113	108	104	96	90
	3/4"	226	206	191	179	168	160	152	146	135	126
	1"	477	435	403	377	355	337	321	308	285	266

Pipe Size	**ID**	**125**	**150**	**175**	**200**	**225**	**250**	**275**	**300**	**350**	**400**
	1/2"	96	—	—	—	—	—	—	—	—	—
	3/4"	198	180	168	156	150	138	132	126	120	108
	1"	384	348	324	300	282	276	258	246	228	216
	1 1/4"	780	708	660	612	582	552	522	504	468	438
	1 1/2"	1158	1056	978	918	864	822	780	750	690	648
	2"	2232	2034	1884	1764	1662	1578	1500	1440	1332	1248

Copper Tubing	**ID**	**450**	**500**	**550**	**600**	**650**	**700**	**750**	**800**	**900**	**1000**
	1/4"	—	—	—	—	—	—	—	—	—	—
	3/8"	24	23	—	—	—	—	—	—	—	—
	1/2"	49	46	44	42	41	39	38	36	34	33
	5/8"	84	80	76	73	70	68	65	63	60	56
	3/4"	119	113	108	103	99	95	92	89	84	80
	1"	251	238	227	217	209	201	194	188	177	168

Pipe Size	**ID**	**450**	**500**	**550**	**600**	**650**	**700**	**750**	**800**	**900**	**1000**
	1/2"	—	—	—	—	—	—	—	—	—	—
	3/4"	—	—	—	—	—	—	—	—	—	—
	1"	204	182	180	174	168	162	156	152	144	132
	1 1/4"	408	390	372	354	342	330	318	306	288	276
	1 1/2"	612	582	552	528	510	492	474	456	432	408
	2"	1176	1116	1068	1020	978	942	912	882	828	786

Values based on Darcy's equation with a 20% reduction in flow to account for flashing of liquid during flow through tank valves, dip pipes etc. in the piping. Calculation assumes turbulent flow (i.e. Reynold's number > 4000) and the weight density of propane taken at 0° F.