

7.3 CSST Capacity Tables - Propane Gas

**Table 7-13**

Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of **Liquefied Petroleum Gas** with a **Gas Pressure of 0.5 psi or Less and a Pressure Drop of 0.5"WC** (based on a 1.52 specific gravity LP gas)

Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	74	51	41	35	31	29	25	22	20	18	17	16	15	13	12
18	1/2"	208	148	121	105	94	86	75	67	61	57	53	50	47	42	39
23	3/4"	398	290	240	211	190	175	153	138	127	118	111	106	101	91	83
31	1"	917	657	541	471	423	387	337	303	278	258	242	229	217	195	179
37	1-1/4"	1381	983	806	700	627	574	498	446	408	379	355	335	318	285	261
47	1-1/2"	2907	2066	1692	1468	1316	1203	1044	935	855	792	742	700	664	595	544
60	2"	6141	4296	3486	3006	2679	2439	2103	1874	1706	1576	1471	1385	1311	1169	1064

  

Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	10	9	8	7	6	6	5	5	5	4	4	4	4	4	4
18	1/2"	34	30	28	24	21	20	18	17	16	15	15	14	13	13	12
23	3/4"	73	66	61	53	48	44	41	39	37	35	33	32	31	30	29
31	1"	156	140	128	112	100	92	85	80	76	72	69	66	63	61	59
37	1-1/4"	226	203	185	161	144	132	122	115	108	103	98	94	90	87	84
47	1-1/2"	472	423	387	336	301	275	255	239	225	214	204	195	188	181	175
60	2"	917	818	744	642	572	521	481	449	423	400	381	364	350	337	325

**Table 7-14**

Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of **Liquefied Petroleum Gas** with a **Gas Pressure of 0.5 psi or Less and a Pressure Drop of 1.0"WC** (based on a 1.52 specific gravity LP gas)

Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	106	74	60	51	45	41	35	31	29	26	25	23	22	19	18
18	1/2"	293	208	170	148	132	121	105	94	86	80	75	70	67	60	55
23	3/4"	548	398	331	290	261	240	211	190	175	163	153	145	138	125	115
31	1"	1279	917	754	657	590	541	471	423	387	360	337	319	303	272	249
37	1-1/4"	1940	1381	1132	983	881	806	700	627	574	532	498	470	446	400	366
47	1-1/2"	4091	2907	2381	2066	1851	1692	1468	1316	1203	1115	1044	985	935	838	766
60	2"	8777	6141	4983	4296	3829	3486	3006	2679	2439	2253	2103	1979	1874	1671	1521

  

Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	15	13	12	10	9	8	8	7	7	6	6	6	6	5	5
18	1/2"	47	42	39	34	30	28	26	24	23	21	20	20	19	18	18
23	3/4"	101	91	83	73	66	61	57	53	50	48	46	44	43	41	40
31	1"	217	195	179	156	140	128	119	112	105	100	96	92	88	85	82
37	1-1/4"	318	285	261	226	203	185	172	161	152	144	138	132	127	122	118
47	1-1/2"	664	595	544	472	423	387	358	336	317	301	287	275	264	255	246
60	2"	1311	1169	1064	917	818	744	688	642	604	572	545	521	500	481	464

Tables include losses for four 90° bends and two end fittings. Tubing runs with a larger number of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation:  $L=1.3n$  where L is additional length of tubing and n is the number of additional fittings and/or bends.

<b>Table 7-15</b>																
Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of <b>Liquefied Petroleum Gas</b> with a <b>Gas Pressure of 0.5 psi or Less and a Pressure Drop of 2.0"WC</b> (based on a 1.52 specific gravity LP gas)																
Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	154	106	86	74	66	60	51	45	41	38	35	33	31	28	25
18	1/2"	412	293	240	208	186	170	148	132	121	112	105	99	94	84	77
23	3/4"	753	548	454	398	359	331	290	261	240	224	211	200	190	172	158
31	1"	1785	1279	1053	917	824	754	657	590	541	502	471	445	423	380	348
37	1-1/4"	2725	1940	1590	1381	1238	1132	983	881	806	747	700	660	627	562	514
47	1-1/2"	5756	4091	3350	2907	2605	2381	2066	1851	1692	1568	1468	1386	1316	1179	1077
60	2"	12546	8777	7122	6141	5474	4983	4296	3829	3486	3220	3006	2829	2679	2388	2174

  

Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	22	19	18	15	13	12	11	10	10	9	9	8	8	8	8
18	1/2"	67	60	55	47	42	39	36	34	32	30	29	28	27	26	25
23	3/4"	138	125	115	101	91	83	78	73	69	66	63	61	59	57	55
31	1"	303	272	249	217	195	179	166	156	147	140	134	128	123	119	115
37	1-1/4"	446	400	366	318	285	261	242	226	214	203	194	185	178	172	166
47	1-1/2"	935	838	766	664	595	544	504	472	446	423	404	387	372	358	346
60	2"	1874	1671	1521	1311	1169	1064	983	917	863	818	779	744	714	688	664

<b>Table 7-16</b>																
Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of <b>Liquefied Petroleum Gas</b> with a <b>Gas Pressure of 0.5 psi or Less and a Pressure Drop of 2.5"WC</b> (based on a 1.52 specific gravity LP gas)																
Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	173	120	97	83	74	67	58	51	46	43	40	37	35	31	29
18	1/2"	460	327	268	232	208	190	165	148	135	125	117	111	105	94	86
23	3/4"	834	607	504	441	398	366	321	290	266	248	233	221	211	190	175
31	1"	1987	1424	1172	1021	917	840	731	657	602	559	524	495	471	423	387
37	1-1/4"	3040	2164	1774	1540	1381	1263	1097	983	899	833	781	737	700	627	574
47	1-1/2"	6426	4567	3740	3245	2907	2658	2306	2066	1889	1751	1639	1547	1468	1316	1203
60	2"	14075	9847	7990	6889	6141	5590	4820	4296	3911	3612	3372	3173	3006	2679	2439

  

Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	25	22	20	17	15	14	13	12	11	10	10	10	9	9	8
18	1/2"	75	67	61	53	47	43	40	38	35	34	32	31	30	29	28
23	3/4"	153	138	127	111	101	93	86	81	77	73	70	67	65	63	61
31	1"	337	303	278	242	217	199	185	173	164	156	149	143	137	132	128
37	1-1/4"	498	446	408	355	318	291	270	252	238	226	216	207	199	192	185
47	1-1/2"	1044	935	855	742	664	607	563	527	497	472	451	432	415	400	387
60	2"	2103	1874	1706	1471	1311	1194	1103	1029	969	917	873	835	801	771	744

Tables include losses for four 90° bends and two end fittings. Tubing runs with a larger number of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation:  $L=1.3n$  where L is additional length of tubing and n is the number of additional fittings and/or bends.

Table 7-17																
Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of Liquefied Petroleum Gas with a Gas Pressure of 0.5 psi or Less and a Pressure Drop of 3.0"WC (based on a 1.52 specific gravity LP gas)																
Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	190	132	106	91	81	74	63	56	51	47	44	41	39	35	31
18	1/2"	504	358	293	254	228	208	180	162	148	137	128	121	115	103	94
23	3/4"	907	660	548	480	433	398	349	315	290	270	254	240	229	207	190
31	1"	2169	1554	1279	1114	1001	917	798	717	657	610	572	541	514	462	423
37	1-1/4"	3324	2366	1940	1684	1510	1381	1199	1075	983	911	854	806	765	686	627
47	1-1/2"	7029	4996	4091	3550	3181	2907	2523	2260	2066	1915	1793	1692	1606	1439	1316
60	2"	15461	10817	8777	7568	6746	6141	5295	4719	4296	3968	3704	3486	3302	2943	2679

  

Table 7-18																
Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of Liquefied Petroleum Gas with a Gas Pressure of 2.0 psi or Less and a Pressure Drop of 1.0"PSI (based on a 1.52 specific gravity LP gas)																
Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	27	24	22	19	17	15	14	13	12	12	11	10	10	10	9
18	1/2"	82	73	67	58	52	47	44	41	39	37	35	34	32	31	30
23	3/4"	167	150	138	121	109	101	94	88	83	80	76	73	71	68	66
31	1"	368	331	303	264	237	217	202	189	179	170	162	156	150	145	140
37	1-1/4"	545	488	446	388	348	318	295	276	261	247	236	226	218	210	203
47	1-1/2"	1142	1023	935	811	727	664	616	577	544	517	493	472	454	438	423
60	2"	2310	2059	1874	1616	1441	1311	1211	1131	1064	1008	960	917	880	847	818

7.4 CSST Capacity Tables - Propane Gas - Elevated Pressure

Table 7-18																
Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of Liquefied Petroleum Gas with a Gas Pressure of 2.0 psi or Less and a Pressure Drop of 1.0"PSI (based on a 1.52 specific gravity LP gas)																
Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	621	430	347	298	265	241	207	184	167	154	143	135	127	113	103
18	1/2"	1516	1077	882	765	685	626	543	487	445	412	386	364	346	310	283
23	3/4"	2530	1840	1527	1338	1208	1111	973	879	808	753	708	671	639	577	530
31	1"	6346	4548	3743	3259	2928	2682	2336	2098	1922	1785	1674	1582	1504	1351	1237
37	1-1/4"	9937	7074	5798	5036	4514	4128	3585	3213	2938	2725	2552	2409	2287	2050	1875
47	1-1/2"	21129	15016	12297	10672	9561	8739	7584	6795	6211	5756	5390	5086	4829	4326	3954
60	2"	48882	34199	27750	23926	21327	19415	16739	14921	13583	12546	11711	11022	10439	9305	8471

  

Table 7-18																
Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of Liquefied Petroleum Gas with a Gas Pressure of 2.0 psi or Less and a Pressure Drop of 1.0"PSI (based on a 1.52 specific gravity LP gas)																
Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	88	78	71	61	54	49	45	42	40	38	36	34	33	31	30
18	1/2"	246	220	201	174	156	143	132	124	117	111	106	101	97	94	91
23	3/4"	465	420	386	338	305	281	261	246	233	222	212	204	197	190	184
31	1"	1078	968	887	772	694	636	590	553	523	497	475	455	438	423	409
37	1-1/4"	1628	1460	1335	1159	1039	950	881	825	779	740	706	676	650	627	606
47	1-1/2"	3432	3074	2810	2439	2185	1997	1851	1733	1636	1553	1482	1419	1365	1316	1272
60	2"	7303	6510	5926	5110	4555	4146	3829	3575	3364	3186	3034	2901	2783	2679	2586

Tables include losses for four 90° bends and two end fittings. Tubing runs with a larger number of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation: L=1.3n where L is additional length of tubing and n is the number of additional fittings and/or bends.

**Table 7-19**

Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of **Liquefied Petroleum Gas** with a **Gas Pressure of 5.0 psi** and a **Pressure Drop of 3.5 psi** (based on a 1.52 specific gravity LP gas)

Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	1205	835	674	578	514	467	401	356	323	298	278	261	247	219	199
18	1/2"	2814	1999	1636	1420	1272	1162	1008	903	825	765	716	676	641	575	525
23	3/4"	4498	3272	2716	2380	2148	1975	1731	1562	1437	1338	1259	1192	1136	1025	943
31	1"	11588	8305	6834	5952	5346	4898	4265	3831	3510	3259	3057	2888	2746	2467	2260
37	1-1/4"	18365	13074	10717	9307	8342	7629	6625	5939	5431	5036	4716	4452	4228	3790	3465
47	1-1/2"	39170	27837	22796	19783	17724	16201	14060	12596	11514	10672	9992	9429	8952	8020	7331
60	2"	93226	65223	52924	45632	40675	37027	31925	28457	25905	23926	22335	21020	19909	17746	16155

  

Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	171	152	138	119	105	96	88	82	77	73	69	66	64	61	59
18	1/2"	456	408	373	324	290	265	246	230	217	206	196	188	181	174	169
23	3/4"	826	746	686	601	542	499	465	437	414	395	378	363	350	338	328
31	1"	1968	1768	1619	1410	1267	1161	1078	1011	955	908	867	832	800	772	747
37	1-1/4"	3010	2698	2467	2142	1920	1756	1628	1525	1440	1367	1305	1250	1202	1159	1121
47	1-1/2"	6362	5699	5210	4521	4051	3703	3432	3213	3032	2879	2747	2631	2530	2439	2357
60	2"	13929	12416	11302	9745	8686	7907	7303	6818	6416	6077	5786	5532	5309	5110	4931

Caution: Capacities shown in the elevated pressure tables may exceed the capacity of the line regulator. Refer to Section 4 for Regulator Capacities and Pressure Drops.

**Table 7-20**

Maximum Capacity of Gastite®/FlashShield™ Flexible Gas Piping in Thousands of BTU Per Hour of **Liquefied Petroleum Gas** with a **Gas Pressure of 10.0 psi** and a **Pressure Drop of 7.0 psi** (based on a 1.52 specific gravity LP gas)

Tubing		Tubing Length (ft)														
EHD	Size	5	10	15	20	25	30	40	50	60	70	80	90	100	125	150
13	3/8"	1738	1205	972	835	742	674	578	514	467	430	401	377	356	317	287
18	1/2"	3961	2814	2303	1999	1790	1636	1420	1272	1162	1077	1008	951	903	809	739
23	3/4"	6185	4498	3734	3272	2953	2716	2380	2148	1975	1840	1731	1640	1562	1410	1297
31	1"	16169	11588	9536	8305	7460	6834	5952	5346	4898	4548	4265	4030	3831	3442	3153
37	1-1/4"	25798	18365	15054	13074	11719	10717	9307	8342	7629	7074	6625	6254	5939	5323	4868
47	1-1/2"	55115	39170	32076	27837	24939	22796	19783	17724	16201	15016	14060	13267	12596	11284	10315
60	2"	133253	93226	75647	65223	58138	52924	45632	40675	37027	34199	31925	30045	28457	25365	23091

  

Tubing		Tubing Length (ft)														
EHD	Size	200	250	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
13	3/8"	247	219	199	171	152	138	127	119	111	105	100	96	92	88	85
18	1/2"	641	575	525	456	408	373	346	324	305	290	277	265	255	246	237
23	3/4"	1136	1025	943	826	746	686	639	601	569	542	519	499	481	465	450
31	1"	2746	2467	2260	1968	1768	1619	1504	1410	1333	1267	1210	1161	1117	1078	1043
37	1-1/4"	4228	3790	3465	3010	2698	2467	2287	2142	2022	1920	1833	1756	1689	1628	1574
47	1-1/2"	8952	8020	7331	6362	5699	5210	4829	4521	4266	4051	3865	3703	3559	3432	3317
60	2"	19909	17746	16155	13929	12416	11302	10439	9745	9171	8686	8270	7907	7588	7303	7048

Caution: Capacities shown in the elevated pressure tables may exceed the capacity of the line regulator. Refer to Section 4 for Regulator Capacities and Pressure Drops. \*Gastite's current ANSI LC1/CSA6.26 certificate covers usage up to 5 PSI max. operating pressure. For use at operating pressure greater than 5 PSI, contact Gastite for further guidance.

Tables include losses for four 90° bends and two end fittings. Tubing runs with a larger number of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation:  $L=1.3n$  where L is additional length of tubing and n is the number of additional fittings and/or bends.