

Table A.7 b)
Maximum capacity of natural gas in kW for Schedule 40 pipe and plastic pipe for pressures of 140 kPa
based on a pressure drop of 70 kPa

Length of pipe, m	Pipe size (NPS)								
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
3	2 296	4 801	9 044	18 568	27 820	53 578	85 396	150 964	307 919
6	1 578	3 300	6 216	12 761	19 121	36 824	58 692	103 757	211 631
9	1 267	2 650	4 991	10 248	15 354	29 571	47 132	83 320	169 947
12	1 085	2 268	4 272	8 771	13 141	25 309	40 339	71 311	145 453
15	961	2 010	3 786	7 773	11 647	22 431	35 751	63 202	128 912
18	871	1 821	3 431	7 043	10 553	20 324	32 393	57 266	116 804
21	801	1 675	3 156	6 480	9 709	18 698	29 801	52 684	107 458
24	745	1 559	2 936	6 028	9 032	17 395	27 724	49 012	99 969
27	699	1 462	2 755	5 656	8 474	16 321	26 013	45 986	93 797
30	661	1 381	2 602	5 343	8 005	15 417	24 572	43 438	88 600
35	608	1 271	2 394	4 915	7 364	14 183	22 606	39 963	81 511
40	565	1 182	2 227	4 573	6 851	13 195	21 030	37 178	75 831
45	531	1 109	2 090	4 290	6 428	12 380	19 732	34 883	71 149
50	501	1 048	1 974	4 053	6 072	11 694	18 639	32 950	67 207
60	454	949	1 789	3 672	5 502	10 596	16 888	29 855	60 895
70	418	873	1 645	3 378	5 062	9 748	15 537	27 466	56 022
80	389	813	1 531	3 143	4 709	9 069	14 454	25 552	52 118
90	365	762	1 436	2 949	4 418	8 509	13 562	23 975	48 901
100	344	720	1 357	2 785	4 173	8 037	12 810	22 646	46 191
125	305	638	1 202	2 469	3 699	7 123	11 353	20 071	40 938
150	277	578	1 089	2 237	3 351	6 454	10 287	18 186	37 093

(Continued)

Table A.7 b) (Concluded)

Length of pipe, m	Pipe size (NPS)								
	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4
175	254	532	1 002	2 058	3 083	5 938	9 464	16 731	34 125
200	237	495	932	1 914	2 868	5 524	8 804	15 565	31 747
250	210	439	826	1 697	2 542	4 896	7 803	13 795	28 137
300	190	397	749	1 537	2 303	4 436	7 070	12 499	25 494
350	175	366	689	1 414	2 119	4 081	6 505	11 499	23 454
400	163	340	641	1 316	1 971	3 797	6 051	10 697	21 819
500	144	302	568	1 166	1 747	3 365	5 363	9 481	19 338
600	131	273	515	1 057	1 583	3 049	4 859	8 590	17 522

Table A.8 a)
Maximum capacity of natural gas in thousands of Btu/h for copper tubing, including fittings, for
pressures of less than 7 in w.c. based on a pressure drop of 0.5 in w.c.
 (See Clauses [6.3.2](#), [A.2.3](#), [A.2.4](#), [A.2.5](#), [A.2.6](#), and [A.3.5](#).)

Length of tube, ft	Outside diameter (in)						
	3/8	1/2	5/8	3/4	7/8	1-1/8	
10	24	50	101	176	250	535	963
20	17	34	69	121	172	368	662
30	13	27	56	97	138	295	531
40	11	23	48	83	118	253	455
50	10	21	42	74	105	224	403
60	9	19	38	67	95	203	365
70	8	17	35	62	87	187	336
80	8	16	33	57	81	174	313
90	7	15	31	54	76	163	293
100	7	14	29	51	72	154	277
125	6	13	26	45	64	136	245
150	6	11	23	41	58	124	222
175	5	11	21	38	53	114	205
200	5	10	20	35	50	106	190
250	4	9	18	31	44	94	169
300	4	8	16	28	40	85	153
350	4	7	15	26	37	78	141
400	3	7	14	24	34	73	131
450	3	6	13	23	32	68	123
500	3	6	12	21	30	64	116
600	3	5	11	19	27	58	105

(Continued)

Table A.8 a) (Concluded)

Length of tube, ft	Outside diameter (in)						
	3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8
700	2	5	10	18	25	54	97
800	2	5	9	16	23	50	90
900	2	4	9	15	22	47	84
1000	2	4	8	15	21	44	80
1200	2	4	8	13	19	40	72
1400	2	3	7	12	17	37	66
1600	2	3	6	11	16	34	62
1800	1	3	6	11	15	32	58
2000	1	3	6	10	14	30	55

Table A.8 b)
Maximum capacity of natural gas in kW for copper tubing, including fittings, for pressures of less than 1.75 kPa based on a pressure drop of 125 Pa

Length of tube, m	Outside diameter (mm)						
	9.5	13	16	19	22	29	35
3	7	15	30	52	74	158	285
6	5	10	21	36	51	109	196
9	4	8	17	29	41	87	157
12	3	7	14	25	35	75	135
15	3	6	13	22	31	66	119
18	3	6	11	20	28	60	108
21	2	5	10	18	26	55	100
24	2	5	10	17	24	51	93
27	2	4	9	16	23	48	87
30	2	4	9	15	21	46	82
35	2	4	8	14	20	42	75
40	2	4	7	13	18	39	70
45	2	3	7	12	17	37	66
50	2	3	7	11	16	35	62
60	1	3	6	10	15	31	56
70	1	3	5	10	13	29	52
80	1	2	5	9	13	27	48
90	1	2	5	8	12	25	45
100	1	2	4	8	11	24	43
125	1	2	4	7	10	21	38
150	1	2	4	6	9	19	34

(Continued)

Table A.8 b) (Concluded)

Length of tube, m	Outside diameter (mm)						
	9.5	13	16	19	22	29	35
175	1	2	3	6	8	18	32
200	1	2	3	5	8	16	29
250	1	1	3	5	7	14	26
300	1	1	2	4	6	13	24
350	1	1	2	4	6	12	22
400	1	1	2	4	5	11	20
500	—	1	2	3	5	10	18
600	—	1	2	3	4	9	16

Table A.9 a)
Maximum capacity of natural gas in thousands of Btu/h for copper tubing, including fittings, for pressures
of 7 in w.c. to 14 in w.c. based on a pressure drop of 1 in w.c.
 (See Clauses [6.3.2](#), [A.2.3](#), [A.2.4](#), [A.2.5](#), [A.2.6](#), and [A.3.5](#).)

Length of tube, ft	Outside diameter (in)						
	3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8
10	35	72	147	257	364	778	1401
20	24	50	101	176	250	535	963
30	19	40	81	142	201	429	773
40	17	34	69	121	172	368	662
50	15	30	61	107	152	326	586
60	13	27	56	97	138	295	531
70	12	25	51	90	127	272	489
80	11	23	48	83	118	253	455
90	11	22	45	78	111	237	427
100	10	21	42	74	105	224	403
125	9	18	37	65	93	198	357
150	8	17	34	59	84	180	324
175	7	15	31	55	77	165	298
200	6	14	29	51	72	154	277
250	6	13	26	45	64	136	245
300	5	11	23	41	58	124	222
350	5	11	21	38	53	114	205
400	4	10	20	35	50	106	190
450	4	9	19	33	46	99	179
500	4	9	18	31	44	94	169
600	3	7	16	28	40	85	153

(Continued)

Table A.9 a) (Concluded)

Length of tube, ft	Outside diameter (in)						
	3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8
700	3	7	15	26	37	78	141
800	3	7	14	24	34	73	131
900	3	6	13	23	32	68	123
1000	3	6	12	21	30	64	116
1200	3	5	11	19	27	58	105
1400	2	5	10	18	25	54	97
1600	2	5	9	16	23	50	90
1800	2	4	9	15	22	47	84
2000	2	4	8	15	21	44	80

Table A.9 b)
**Maximum capacity of natural gas in kW for copper tubing, including fittings, for pressures of 1.75 kPa
up to 3.50 kPa based on a pressure drop of 250 Pa**

Length of tube, m	Outside diameter (mm)						
	9.5	13	16	19	22	29	35
3	10	21	44	76	108	231	415
6	7	15	30	52	74	158	285
9	6	12	24	42	60	127	229
12	5	10	21	36	51	109	196
15	4	9	18	32	45	97	174
18	4	8	17	29	41	87	157
21	4	7	15	27	38	80	145
24	3	7	14	25	35	75	135
27	3	7	13	23	33	70	126
30	3	6	13	22	31	66	119
35	3	6	12	20	29	61	110
40	3	5	11	19	27	57	102
45	2	5	10	18	25	53	96
50	2	5	9	17	24	50	91
60	2	4	9	15	21	46	82
70	2	4	8	14	20	42	76
80	2	4	7	13	18	39	70
90	2	3	7	12	17	37	66
100	2	3	7	11	16	35	62
125	1	3	6	10	14	31	55
150	1	3	5	9	13	28	50

(Continued)

Table A.9 b) (Concluded)

Length of tube, m	Outside diameter (mm)						
	9.5	13	16	19	22	29	35
175	1	2	5	8	12	26	46
200	1	2	4	8	11	24	43
250	1	2	4	7	10	21	38
300	1	2	4	6	9	19	34
350	1	2	3	6	8	18	32
400	1	2	3	5	8	16	29
500	1	1	3	5	7	14	26
600	1	1	2	4	6	13	24

Table A.10 a)
Maximum capacity of natural gas in thousands of Btu/h for copper tubing, including fittings, for
pressures of 2 psig based on a pressure drop of 1 psig
 (See Clauses [6.3.4](#), [A.2.3](#), [A.2.4](#), [A.2.5](#), [A.2.6](#), and [A.3.5](#).)

Length of tube, ft	Outside diameter (in)						
	3/8	1/2	5/8	3/4	7/8	1-1/8	1-3/8
10	222	458	933	1630	2312	4939	8891
20	153	315	641	1120	1589	3395	6111
30	123	253	515	899	1276	2726	4907
40	105	217	440	770	1092	2333	4200
50	93	192	390	682	968	2068	3722
60	84	174	354	618	877	1873	3373
70	78	160	325	569	807	1724	3103
80	72	149	303	529	751	1603	2887
90	68	140	284	496	704	1504	2708
100	64	132	268	469	665	1421	2558
125	57	117	238	416	590	1260	2267
150	51	106	215	377	534	1141	2055
175	47	97	198	346	492	1050	1890
200	44	91	184	322	457	977	1758
250	39	80	163	286	405	866	1558
300	35	73	148	259	367	784	1412
350	32	67	136	238	338	722	1299
400	30	62	127	222	314	671	1209
450	28	58	119	208	295	630	1134
500	27	55	112	196	279	595	1071
600	24	50	102	178	252	539	970

(Continued)