

Table 12-20

**TABLE 12-20 Corrugated Stainless Steel Tubing (CSST) [NFPA 54: Table 6.2(o)]**

									Gas: Natural				
									Inlet Pressure: Less than 0.138bar				
									Pressure Drop: 150mm w.c.				
									Specific Gravity: 0.6				
	Tube Size (EHD)*												
Flow Designation:	13	15	18	19	23	25	30	31	37	46	48	60	62
Length (m)	Capacity in m³/h												
1.6	4.9	6.5	11.0	13.1	20.9	25.8	47.8	55.2	84.9	177.8	199.6	351.0	403.7
3	3.4	4.5	7.8	9.3	15.0	18.4	33.4	38.8	60.6	125.4	141.8	249.1	285.9
4.5	2.7	3.7	6.4	7.6	12.3	15.1	27.2	31.4	49.8	102.2	116.1	204.1	233.8
6	2.3	3.2	5.6	6.5	10.8	13.1	23.4	27.1	43.3	88.3	100.8	177.5	202.7
7.5	2.1	2.8	5.0	5.9	9.7	11.7	20.9	24.2	38.8	79.0	90.3	159.1	181.2
9	1.9	2.5	4.6	5.4	8.9	10.7	19.1	22.0	35.4	71.9	82.4	145.5	165.6
21	1.6	2.2	4.0	4.6	7.7	9.3	16.4	19.0	30.9	62.3	71.6	126.3	143.5
15	1.4	2.0	3.5	4.2	6.9	8.4	14.7	17.0	27.7	55.5	64.3	113.2	128.5
18	1.3	1.8	3.3	3.8	6.4	7.6	13.3	15.5	25.3	50.7	58.6	103.6	117.2
21	1.2	1.6	3.0	3.5	5.9	7.1	12.3	14.3	23.5	47.0	54.4	96.0	108.7
24	1.1	1.5	2.8	3.3	5.5	6.6	11.5	13.3	22.0	43.9	51.0	90.0	101.6
27	1.0	1.4	2.7	3.1	5.2	6.3	10.8	12.6	20.8	41.3	48.1	84.9	96.0
30	1.0	1.4	2.5	2.9	5.0	5.9	10.3	11.9	19.8	39.1	45.6	80.7	90.9
45	0.8	1.1	2.1	2.4	4.1	4.9	8.3	9.7	16.2	32.0	37.4	66.2	74.5
60	0.7	1.0	1.8	2.1	3.6	4.2	7.2	8.4	14.1	27.6	32.3	57.5	64.5
75	0.6	0.8	1.6	1.9	3.2	3.8	6.4	7.4	12.7	24.6	28.9	51.5	57.8
90	0.5	0.8	1.5	1.7	2.9	3.5	5.8	6.8	11.6	22.4	26.5	47.0	52.7

\*EHD = Equivalent Hydraulic Diameter, which is a measure of the relative hydraulic efficiency between different tubing sizes. The greater the value of EHD, the greater the gas capacity of the tubing.

**Notes:**

(1) Table includes losses for four 90 degree bends and two end fittings. Tubing runs with larger numbers of bends and/or fillings shall be increased by an equivalent length of tubing to the following equation:  $L = 1.3n$ , where L is additional length (ft) of tubing and n is the number of additional fittings and/or bends.

(2) All table entries are rounded to 3 significant digits.

SI: 1m = 3.3 ft.; 1mm = 0.04 in.; 1m<sup>3</sup> = 33.3 ft.<sup>3</sup>; 1bar = 14.5 psi