

Table 12-10

UNIFORM PLUMBING CODE OF ABU DHABI:  
AN ENVIRONMENTAL GUIDE FOR  
WATER SUPPLY AND SANITATION

**Table 12-10 Schedule 40 Metallic Pipe [NFPA 54: Table 6.2(e)]**

						Gas:		Natural	
						Inlet Pressure:		Less than 0.345bar	
						Pressure Drop:		0.241bar	
						Specific Gravity:		0.6	
	Pipe Size (mm)								
DN:	15	20	25	32	40	50	65	80	100
Length (m)	Capacity in m³/h								
3	90.3	182.0	334.1	685.1	1,024.8	1,973.2	3,142.4	5,548.8	11,352.3
6	63.7	128.8	235.5	484.1	724.7	1,395.7	2,225.2	3,935.1	8,011.7
9	52.1	105.3	192.2	396.3	591.7	1,140.9	1,817.5	3,199.0	6,539.6
12	45.0	91.2	166.5	342.6	512.4	988.0	1,574.0	2,780.0	5,662.0
15	40.5	81.5	148.9	305.7	458.6	883.3	1,407.0	2,488.4	5,067.5
18	36.8	74.5	135.9	279.1	419.0	806.8	1,285.3	2,270.5	4,642.8
21	34.0	68.8	126.0	258.5	387.8	747.4	1,189.0	2,103.4	4,274.8
24	32.6	66.0	120.6	241.8	362.4	699.3	1,112.6	1,967.5	4,020.0
27	30.0	60.9	111.0	227.9	342.6	656.8	1,047.5	1,854.3	3,793.5
30	27.7	56.1	102.5	210.3	314.2	605.8	968.2	1,709.9	3,482.1
38	24.8	50.1	91.7	188.0	281.7	543.6	866.3	1,528.7	3,114.1
45	22.3	45.0	82.4	168.7	253.1	486.9	775.7	1,373.0	2,799.9
53	20.6	41.6	76.2	156.3	234.1	450.1	719.1	1,271.1	2,593.2
60	19.1	38.5	70.5	144.4	216.6	416.2	665.3	1,174.9	2,397.9
75	15.8	33.1	62.3	127.7	191.4	368.0	588.8	1,039.0	2,120.4
90	14.3	30.0	56.3	115.8	173.5	334.1	532.2	942.7	1,919.4
105	13.2	27.5	51.8	106.4	159.7	308.6	489.8	866.3	1,766.5
120	12.3	25.6	48.4	99.1	148.6	285.9	455.8	806.8	1,644.8
135	11.5	24.0	45.3	93.1	139.3	268.4	427.5	755.9	1,542.9
150	10.9	22.7	42.7	87.8	131.6	253.4	404.8	713.4	1,458.0
165	10.3	21.6	40.8	83.5	125.1	240.6	385.0	679.4	1,384.4
180	9.9	20.6	38.8	79.6	119.2	229.6	365.2	648.3	1,319.2
195	9.4	19.7	37.1	76.2	114.1	220.0	351.0	620.0	1,262.6
210	9.1	18.9	35.7	73.3	109.8	211.2	336.9	594.5	1,214.5
225	8.7	18.2	34.3	70.5	105.6	203.5	325.6	574.7	1,169.2
240	8.4	17.6	33.1	68.2	102.2	196.5	314.2	554.9	1,129.6
255	8.2	17.0	32.0	66.0	98.8	190.2	302.9	535.1	1,092.8
270	7.9	16.5	31.1	64.0	95.7	184.6	294.4	520.9	1,058.8
285	7.7	16.1	30.3	62.0	93.1	179.2	285.9	503.9	1,030.5
300	7.5	15.6	29.4	60.3	90.6	174.1	277.7	489.8	1,002.2
330	7.1	14.8	27.9	57.5	85.8	165.3	263.8	467.1	951.2
360	6.8	14.2	26.6	54.6	82.1	158.0	251.7	444.5	905.9
390	6.5	13.5	25.5	52.4	78.4	151.2	240.9	424.7	869.1
420	6.2	13.0	24.5	50.4	75.3	145.2	231.6	410.5	835.1
450	6.0	12.5	23.6	48.4	72.8	139.9	223.1	393.5	804.0
480	5.8	12.1	22.8	46.7	70.2	135.0	215.4	379.4	775.7
510	5.6	11.7	22.1	45.3	67.9	130.8	208.4	368.0	750.2
540	5.4	11.4	21.4	43.9	66.0	126.8	202.1	356.7	727.6
570	5.3	11.0	20.8	43.0	64.0	123.1	196.2	348.2	707.8
600	5.1	10.7	20.2	41.6	62.3	119.8	190.8	336.9	687.9

Note: 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