

Table 12-8

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

Table 12-8 Schedule 40 Metallic Pipe [NFPA 54: Table 6.2(c)]

						Gas:		Natural	
						Inlet Pressure:		Less than 0.138bar	
						Pressure Drop:		0.069bar	
						Specific Gravity:		0.6	
	Pipe Size (mm)								
DN:	15	20	25	32	40	50	65	80	100
Length (m)	Capacity in m³/h								
3	42.7	86.1	157.4	322.7	484.1	931.4	1486.3	2627.2	5350.6
6	30.3	60.9	111.3	228.5	342.6	659.6	1050.3	1857.1	3793.5
9	24.6	49.8	90.9	186.6	279.7	537.9	857.8	1517.4	3085.8
12	21.3	43.0	78.7	161.7	242.1	467.1	744.6	1313.6	2681.0
15	19.1	38.5	70.5	144.7	216.6	416.2	665.3	1174.9	2397.9
18	17.4	35.1	64.3	131.9	197.6	382.2	605.8	1072.9	2188.4
21	16.1	32.6	59.5	122.3	183.2	353.9	563.4	993.7	2027.0
24	15.1	30.6	55.8	114.4	171.3	331.2	526.6	928.6	1896.8
27	14.2	28.6	52.4	107.9	161.4	311.4	495.4	874.8	1786.4
30	13.1	26.4	48.4	99.4	148.9	285.9	455.8	806.8	1647.6
38	11.7	23.7	43.3	88.9	133.1	256.5	407.7	721.9	1475.0
45	10.5	21.3	38.8	79.8	119.5	230.2	368.0	648.3	1322.1
53	9.7	19.7	36.0	73.6	110.7	213.2	339.7	600.2	1225.8
60	9.0	18.2	33.1	68.2	102.2	197.0	314.2	554.9	1132.4
75	7.9	16.5	29.4	60.6	90.9	175.0	278.9	492.6	1005.0
90	7.2	14.9	26.8	54.9	82.4	158.5	252.5	447.3	911.6
105	6.6	13.8	24.6	50.7	75.6	145.8	232.4	410.5	838.0
120	6.1	12.8	22.9	47.0	70.5	135.6	216.3	382.2	778.5
135	5.7	12.0	21.5	44.2	66.0	127.4	203.0	359.5	730.4
150	5.4	11.4	20.3	41.6	62.6	120.3	191.7	339.7	690.8
165	5.2	10.8	19.3	39.6	59.2	114.1	182.0	322.7	656.8
180	4.9	10.3	18.4	37.7	56.6	109.0	173.5	305.7	625.7
195	4.7	9.9	17.6	36.2	54.1	104.2	166.2	294.4	600.2
210	4.5	9.5	16.9	34.8	52.1	100.2	159.7	282.3	574.7
225	4.4	9.1	16.3	33.4	50.1	96.5	154.0	272.1	554.9
240	4.2	8.8	15.7	32.3	48.4	93.1	148.6	262.7	535.1
255	4.1	8.5	15.2	31.1	46.7	90.3	143.8	254.2	518.1
270	3.9	8.3	14.8	30.3	45.3	87.5	139.6	246.6	503.9
285	3.8	8.0	14.4	29.4	44.2	84.9	135.3	239.5	486.9
300	3.7	7.8	14.0	28.6	43.0	82.7	131.6	232.7	475.6
330	3.5	7.4	13.2	27.2	40.8	78.4	125.1	221.1	450.1
360	3.4	7.1	12.6	26.0	38.8	74.7	119.5	210.9	430.3
390	3.2	6.8	12.1	24.9	37.4	71.6	114.4	202.1	413.3
420	3.1	6.5	11.6	23.9	35.7	68.8	109.8	194.2	396.3
450	3.0	6.3	11.2	23.0	34.5	66.2	105.9	186.8	382.2
480	2.9	6.1	10.8	22.2	33.4	64.0	102.2	180.6	368.0
510	2.8	5.9	10.5	21.5	32.3	62.0	98.8	174.7	356.7
540	2.7	5.7	10.1	20.8	31.1	60.0	96.0	169.3	345.4
570	2.6	5.5	9.9	20.2	30.3	58.3	93.1	164.5	336.9
600	2.6	5.4	9.6	19.7	29.4	56.9	90.6	160.0	325.6

Note: All table entries are rounded to 3 significant digits.

SI: 1m = 3.3 ft.; 1mm = 0.04 in.; 1m³ = 33.3 ft.³; 1bar = 14.5 psi