## COMMON PIPE SIZES DIMENSIONS SHOWN ARE TO ASME B36.10

Nominal Size						Identification		
NPS	•		Wall Thickness mm	Inside Diameter mm	Plain End Mass kg/m	Standard (STD) X-Strong (XS) XX-Strong (XXS)	Schedule Number	
1/8	6	10.3	1.73	6.8	0.37	STD	40	
1/8		(0.405)	2.41	5.5	0.47	XS	80	
1/4	8	13.7	2.24	9.2	0.63	STD	40	
74		(0.540)	3.02	7.7	0.80	XS	80	
<sup>3</sup> /8	10	17.1	2.31	12.5	0.84	STD	40	
,0		(0.675)	3.20	10.7	1.10	XS	80	
1/2			2.77	15.8	1.27	STD	40	
	15	21.3	3.73	13.9	1.62	XS	80	
12	1.5	(0.840)	4.78	11.8	1.95	-	160	
			7.47	6.4	2.55	XXS	-	
	20		2.87	20.9	1.69	STD	40	
3/4		26.7	3.91	18.9	2.20	XS	80	
		(1.050)	5.56	15.5	2.90	-	160	
			7.82	11.0	3.64	XXS	-	
	25		3.38	26.6	2.50	STD	40	
		33.4	4.55	24.3	3.24	XS	80	
1		(1.315)	6.35	20.7	4.24	_	160	
			9.09	15.2	5.45	XXS	-	
	32		3.56	35.1	3.39	STD	40	
		42.2	4.85	32.5	4.47	XS	80	
11/4		(1.660)	6.35	29.5	5.61	_	160	
			9.70	22.8	7.77	xxs	_	
			3.68	40.9	4.05	STD	40	
11/	40	48.3	5.08	38.1	5.41	XS	80	
11/2	40	(1.900)	7.14	34.0	7.25	_	160	
			10.15	27.9	9.55	xxs	_	
			3.91	52.5	5.44	STD	40	
2		60.3	5.54	49.2	7.48	XS	80	
2	50	(2.375)	8.74	42.9	11.11	_	160	
			11.07	38.2	13.44	xxs	_	
			5.16	62.7	8.63	STD	40	
<b>0</b> 1 <i>′</i>		73.0	7.01	59.0	11.41	XS	80	
<b>2</b> 1/ <sub>2</sub>	65	(2.875)	9.53	54.0	14.92	_	160	
		(2.0/3)	14.02	45.0	20.39	xxs	.00	
			14.02	43.0	20.37	~~~>	_	

NPS: ASME term.	$\oplus$ DN: SI Metric term.
API and BS 1600 are dimension	ionally similar to ASME B36.10

Nominal Size						Identification			
		Outside Diameter mm (inch)	Wall Thickness mm	Inside Diameter mm	Plain End Mass kg/m	Standard (STD) X-Strong (XS) XX-Strong (XXS)	Schedule Number		
			5.49	77.9	11.29	STD	40		
3	80	88.9 (3.500)	7.62	73.7	15.27	XS	80		
			11.13	66.7	21.35	-	160		
			15.24	58.4	27.68	XXS	-		
31/2	90	101.6	5.74	90.1	13.57	STD	40		
- 72		(4.000)	8.08	85.4	18.64	XS	80		
	100	114.3 (4.500)	6.02	102.3	16.08	STD	40		
			8.56	97.2	22.32	XS	80		
4			11.13	92.1	28.32	-	120		
			13.49	87.3	33.54	-	160		
			17.12	80.1	41.03	XXS	-		
	125		6.55	128.2	21.77	STD	40		
5		141.3 (5.563)	9.53	122.3	30.97	XS	80		
			12.70	115.9	40.28	-	120		
			15.88	109.6	49.12	-	160		
			19.05	103.2	57.43	XXS	-		
	150	168.3 (6.625)	7.11 10.97	154.1 146.3	28.26 42.56	STD XS	40		
6				139.7	42.56 54.21	^3	80 120		
-			14.27 18.26	139.7	54.21 67.57	-	120		
			21.95	124.4	79.22	XXS	100		
	200	219.1 (8.625)	6.35	206.4	33.32	~^.3	20		
			7.04	200.4	36.82	_	30		
			8.18	203.0	42.55	STD	40		
			10.31	198.5	42.55 53.09	_	40 60		
			12.70	193.7	64.64	XS	80		
8			15.09	188.9	75.92		100		
			18.26	182.6	90.44	_	120		
			20.62	177.8	100.93	_	140		
			22.23	174.6	107.93	xxs	_		
			23.01	173.1	111.27	_	160		
10	250	273.1 (10.75)	6.35	260.3	41.76	_	20		
			7.80	257.5	51.01	_	30		
			9.27	254.5	60.29	STD	40		
			12.70	247.7	81.53	XS	60		
			15.09	242.9	95.98	_	80		
			18.26	236.5	114.71		100		
			21.44	230.2	133.01	_	120		
			25.40	222.3	155.10	XXS	140		
			28.58	215.9	172.27		160		

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All dimensions are nominal

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## COMMON PIPE SIZES DIMENSIONS SHOWN ARE TO ASME B36.10

Nominal Size						Identification		Nomine	Nominal Size					Identification	
NPS	DN	- Outside Diameter mm (inch)	ter Thickness	Inside Diameter mm	ameter Mass	Standard (STD) X-Strong (XS) XX-Strong (XXS)	Number	NPS	⊕ DN	Outside Diameter mm (inch)	Wall Thickness mm	Inside Diameter mm	Plain End Mass kg/m	Standard (STD) X-Strong (XS) XX-Strong (XXS)	Schedule Number
12	300	323.9 (12.75)	6.35 8.38 9.53 10.31 12.70 14.27 17.48 21.44 25.40 28.58	311.1 307.1 304.8 303.2 298.5 295.3 288.9 281.0 273.1 266.7	49.71 65.19 73.86 79.71 97.44 108.93 132.05 159.87 186.92 208.08	- STD - XS - - - XXS - -	20 30 - 40 - 60 80 100 120 140	20	500	508 (20.00)	6.35 9.53 12.70 15.09 20.62 26.19 32.54 38.10 44.45 50.01 6.35	495.3 489.0 482.6 477.8 466.8 455.6 442.9 431.8 419.1 408.0 546.1	78.56 117.15 155.13 183.43 247.84 311.19 381.55 441.52 508.15 564.85 86.55	- STD XS - - - - - - - - -	10 20 30 40 60 80 100 120 140 160
14	350	) 355.6 (14.00)	33.32 6.35 7.92 9.53 11.13 11.91 12.70 15.09	257.2 342.9 339.8 336.6 333.3 331.8 330.2 325.4	238.69 54.69 67.91 81.33 94.55 100.95 107.40 126.72	- - STD - - XS -	160 10 20 30 40 - - 60	22	550	559 (22.00)	9.53 12.70 22.23 28.58 34.93 41.28 47.63 53.98	539.8 533.4 514.4 501.7 489.0 476.2 463.5 450.8	129.14 171.10 294.27 373.85 451.45 527.05 600.67 672.30	STD XS - - - - - - -	20 30 60 80 100 120 140 160
			19.05 23.83 27.79 31.75 35.71	317.5 307.9 300.0 292.1 284.2	158.11 194.98 224.66 253.58 281.72	- - - -	80 100 120 140 160			610	6.35 9.53 12.70 14.27 17.48 24.61	596.9 590.6 584.2 581.1 574.6 560.4	94.53 141.12 187.07 209.65 255.43 355.28	- STD XS - -	10 20 - 30 40 60
14	400	406.4	6.35 7.92 9.53 12.70 16.66	393.7 390.6 387.4 381.0 373.1	62.65 77.83 93.27 123.31 160.13	– STD XS –	10 20 30 40 60	24	600	(24.00)	30.96 38.89 46.02 52.37 59.54	547.7 531.8 517.6 504.9 490.5	442.11 547.74 640.07 720.19 808.27	- - - -	80 100 120 140 160
16	400	(16.00)	21.44 26.19 30.96 36.53 40.49	363.5 354.0 344.5 333.3 325.4	203.54 245.57 286.66 333.21 365.38	- - - -	80 100 120 140 160	26	650 700	660 (26.00) 711	7.92 9.53 12.70 7.92 9.53	644.6 641.4 635.0 695.4 692.2	127.36 152.88 202.74 137.32 164.86	- STD XS - STD	10 - 20 10 -
		457 (18.00)	6.35 7.92 9.53 11.13 12.70	444.5 441.4 438.2 434.9 431.8 428.7	70.57 87.71 105.17 122.38 139.16	- STD - XS	10 20 - 30 -	30	750	(28.00) 762 (30.00)	12.70 15.88 7.92 9.53 12.70 15.88	685.8 679.5 746.2 743.0 736.6 730.2	218.71 271.23 147.29 176.85 234.68 292.20	XS – STD XS –	20 30 10 - 20 30
18	450		14.27 19.05 23.83 29.36 34.93	428.7 419.1 409.5 398.5 387.4	155.81 205.75 254.57 309.64 363.58	- - - -	40 60 80 100 120	36	900	914 (36.00)	7.92 9.53 12.70 15.88 19.05	898.6 895.4 889.0 882.6 876.3	176.97 212.57 282.29 351.73 420.45	- STD XS - -	10  20 30 40
			39.67 45.24	377.9 366.7	408.28 459.39	-	140 160	42	1050	1067 (42.00)	9.53 12.70	1047.8 1041.4	248.53 330.21	STD XS	-

NPS: ASME term.

Where:

 $\oplus$  DN: SI Metric term.

NOTE: API and BS 1600 are dimensionally similar to ASME B36.10

FORMULA TO ATTAIN APPROXIMATE MASS IN KILOGRAMS PER METRE (kg/m) FOR STEEL ROUND PIPE AND TUBING

M = (D - T) T X 0.02466

- $\mathbf{m}$  = mass to the nearest 0.01 kg/m.
- D = Outside Diameter in millimetres (mm).
  (To nearest 0.1mm for O.D. up to 406.4mm)
  (To nearest 1.0mm for O.D. 457mm and above)
- t = Wall Thickness to nearest 0.01mm

**EXAMPLE** NOMINAL SIZE: NPS-12. DN-300 O.D. = 323.9mm W.T. = 9.53mm Step 1. 323.9 - 9.53 = 314.37

**Step 2.** 314.37 x 9.53 = 2995.9461

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Step 3. 2995.9461 x 0.02466 = 73.88 kg/m

sales@anchoragegroup.com.au

All dimensions are nominal

## **CANCHORAGE**