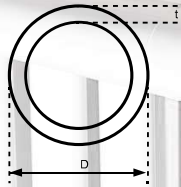


WATER
APPLICATION



MITRSTEEL

บริษัท มิตรสตีล จำกัด www.mitrsteel.com
114/40 หมู่ 10 ตำบลหนองระลอก อำเภอบ้านค่าย
จังหวัดระยอง 21120 Tel. 66(0)3301-2436-8



CARBON STEEL PIPE

FOR PRESSURE PURPOSE

งานท่องานระบบและท่อขนแรงดัน

ASTM A53

MATERIAL OF GRADE	CHEMICAL COMPOSITION (%)					MECHANICAL PROPERTIES		
	C Max	Si Max	Mn Max	P Max	S Max	Yield Strength	Tensile Strength	Elongation
						N/mm ²	N/mm ²	%
Grade A	0.250	-	0.950	0.050	0.045	205	330	As per standard
Grade B	0.300	-	1.200	0.050	0.045	240	415	As per standard

Nominal dimension		Outside diameter	Thickness	Weight (plain end)	Test pressure (kPa)		Schedule
mm	in	mm	mm	kg/m	Grade A	Grade B	
15	1/2"	21.30	2.77	1.27	4830	4830	40
			3.73	1.62	5860	5860	80
20	3/4"	26.70	2.87	1.69	4830	4830	40
			3.91	2.20	5860	5860	80
25	1"	33.40	3.38	2.50	4830	4830	40
			4.55	3.24	5860	5860	80
32	1 1/4"	42.20	3.56	3.39	8270	8960	40
			4.85	4.47	12410	13100	80
40	1 1/2"	48.30	3.68	4.05	8270	8960	40
			5.08	5.41	12410	13100	80
50	2"	60.30	3.91	5.44	15860	17240	40
			5.54	7.48	17240	17240	80
65	2 1/2"	73.00	5.16	8.63	17240	17240	40
			7.01	11.41	17240	17240	80
80	3"	88.90	5.49	11.29	15310	17240	40
			7.62	15.27	17240	17240	80
90	3 1/2"	101.60	5.74	13.57	14000	16340	40
			8.08	18.63	19310	19310	80
100	4"	114.30	6.02	16.07	13100	15240	40
			8.56	22.32	18620	19310	80
125	5"	141.30	6.55	21.77	11510	13440	40
			9.52	30.94	16750	19310	80
150	6"	168.30	7.11	28.26	10480	12270	40
			10.97	42.56	16200	18890	80
200	8"	219.10	6.35	33.31	7170	8410	20
			7.04	36.31	7800	9310	30
			8.18	42.55	9240	10820	40
			10.31	53.08	11720	13790	60
250	10"	273.00	12.70	64.64	14410	16750	80
			6.35	41.75	5790	6760	20
			7.80	51.01	7100	8270	30
			9.27	60.29	8410	9860	40
300	12"	323.80	6.35	49.71	4900	5650	20
			8.38	65.18	6410	7520	30
			10.31	79.70	7930	9240	40
350	14"	355.60	6.35	54.69	4410	5170	10
			7.92	67.90	5520	6480	20
			9.52	81.25	6620	7720	30
			11.13	94.55	7790	9030	40
400	16"	406.40	6.35	62.64	3860	4550	10
			7.92	77.83	4830	5650	20
			9.52	93.17	5790	6760	30
			12.70	123.30	7720	9030	40

Dimension Tolerances

Outside Diameter : NPS ≤ 1 1/2 in : ±0.40 mm
NPS ≥ 2 in : ±1% from standard specified

Thickness : +Not Limit, -12.5 %

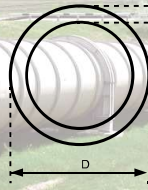
Weight : ± 10%

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Grade B	0.300	-	1.200	0.050	0.045	240	415	As per standard

Nominal dimension		Outside diameter	Thickness	Weight (plain end)	Test pressure (kPa)		Schedule
mm	in	mm	mm	kg/m	Grade A	Grade B	
450	18"	457	6.35	70.60	3400	4000	10
			7.92	87.75	4300	5000	20
			11.13	122.43	6100	7000	30
			14.27	155.87	7700	9000	40
500	20"	508	6.35	78.55	3100	3600	10
			9.52	117.02	4700	5400	20
			12.70	155.12	6200	7200	30
			15.09	183.42	8100	8600	40
600	24"	610	6.35	94.46	2600	3000	10
			9.52	140.88	3900	4500	20
			14.27	209.50	5800	6800	30
			17.48	255.24	7100	8300	40
650	26"	660	7.92	127.43	3000	3400	10
			12.70	202.85	4800	5600	20

Dimension Tolerances

Outside Diameter : NPS ≤ 1 1/2 in : ±0.40 mm
NPS ≥ 2 in : ± 1% from standard specified

Thickness : +Not Limit, -12.5 %

Weight : ± 10%