

STANDARD ASTM A53-95 GRADE A&B BLACK AND GALVAIZED STEEL PIPES

NPS Designator	Outside Diameter	O.D. Tolerance	Wall Thickness	SCH NO.	Plain End Weight	Threads & Couplings	Hydrostatic Test Pressure	
							Grade A	Grade B
in.	mm.	mm.	mm.		kg/m.	kg/m.	psi (Mpa)	psi (Mpa)
1/2	21.3	± 0.4	2.77	40	1.27	1.27	700 (4.83)	700 (4.83)
3/4	26.7	± 0.4	2.87	40	1.69	1.69	700 (4.83)	700 (4.83)
1	33.4	± 0.4	3.38	40	2.50	2.50	700 (4.83)	700 (4.83)
1 1/4	42.2	± 0.4	3.56	40	3.39	3.40	1,200 (8.27)	1,300 (8.96)
1 1/2	48.3	± 0.4	3.68	40	4.05	4.06	1,200 (8.27)	1,300 (8.96)
2	60.3	± 0.6	3.91	40	5.44	5.46	2,300 (15.86)	2,500 (17.24)
2 1/2	73	± 0.7	5.16	40	8.63	8.67	2,500 (17.24)	2,500 (17.24)
3	88.9	± 0.8	5.49	40	11.29	11.35	2,220 (15.31)	2,500 (17.24)
3 1/2	101.6	± 1.0	5.74	40	13.57	13.71	2,030 (14.00)	2,370 (16.34)
4	114.3	± 1.1	6.02	40	16.07	16.23	1,900 (13.10)	2,210 (15.24)
5	141.3	± 1.4	6.55	40	21.77	22.07	1,670 (11.51)	1,950 (13.44)
6	168.3	± 1.6	7.11	40	28.26	28.58	1,520 (10.48)	1,780 (12.27)
8	219.1	± 2.1	8.18	40	42.55	43.73	1,160 (7.80)	1,350 (9.31)
Wall Thickness of 3.18 mm. , 3.96 mm. , 4.78 mm. , 5.16 mm. , 5.56 mm. , 6.35 mm.								
3	88.9	± 0.8	3.18	-	6.72	-	1,290 (8.89)	-
			3.96	-	8.29	-	1,600 (11.03)	-
			4.78	-	9.92	-	1,930 (13.31)	-
3 1/2	101.6	± 1.0	3.18	-	7.72	-	1,120 (7.72)	-
			3.96	-	9.53	-	1,400 (9.65)	-
			4.78	-	11.41	-	1,690 (11.65)	-
4	114.3	± 1.1	3.18	-	8.71	-	1,000 (6.89)	-
			3.96	-	10.78	-	1,250 (8.62)	-
			4.78	-	12.91	-	1,500 (10.34)	-
5	141.3	± 1.4	5.56	-	14.91	-	1,750 (12.07)	-
			3.96	-	13.41	-	1,010 (6.96)	-
			4.78	-	16.09	-	1,220 (8.41)	-
6	168.3	± 1.6	5.56	-	18.61	-	1,420 (9.79)	-
			4.78	-	19.27	-	1,020 (7.03)	-
			5.56	-	22.31	-	1,190 (8.20)	-
8	219.1	± 2.1	6.35	-	25.36	-	1,360 (9.36)	-
			4.78	-	25.26	-	780 (5.38)	-
			5.16	-	27.22	-	850 (5.86)	-
8	219.1	± 2.1	5.56	-	29.28	-	910 (6.27)	-
			6.35	-	33.31	-	1,040 (7.17)	-

1Mpa = 1.01972 x 10 kgf/cm²

Type E (ERW)	Chemical Composition				Mechanical properties	
	C Max. %	Mn Max. %	P Max. %	S Max. %	Tensile Strength (min) PSI (mpa)	Yield Strength PSI (mpa)
GRADE A	0.25	0.95	0.05	0.05	48,000 (330)	30,000 (205)
GRADE B	0.30	1.20	0.05	0.05	60,000 (415)	35,000 (240)

DIMENSIONS TOLERANCES :

Permissible Variation

Wall Thickness	:	- 12.5 % + not specified
Length	:	+ 40 mm. - 0 mm.
Weight	:	± 10 % per price