



บริษัท อุดมกิจ ฟิตติ้ง วาล์ว จำกัด

254/17 หมู่ 7 ถนนสุขสวัสดิ์ แขวงบางปะกอก เขตราษฎร์นุระ กรุงเทพฯ 10140

โทร. 02-427 0952, 02-428 2114-5, 02-872 0520-2 แฟกซ์ 02 428 2125

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STANDARD ASTM A-53 SCHEDULE 40 , 80 GRADE A & B BLACK STEEL PIPE

Nominal Pipe Size	Outside Diameter		Wall Thickness mm.	Plan End				Threads & Coupling				weight	schedule
				Calculated Weight		Test Pressure		Calculated Weight		Test Pressure			
						Grade A	Grade B			Grade A	Grade B		
				in.	mm.	lb. / ft.	kg./m.	psi (Mpa) (kg/cm. ²)	psi (Mpa) (kg/cm. ²)	lb./ft.	kg./m.		
1/2	0.840	21.34	2.77	0.85	1.27	700 (48)	700 (48)	0.86	1.27	700 (48)	700 (48)	STD	40
			3.73	1.09	1.62	850 (58)	850 (58)	1.09	1.62	850 (58)	850 (58)	XS	80
3/4	1.050	26.67	2.87	1.13	1.69	700 (48)	700 (48)	1.14	1.69	700 (48)	700 (48)	STD	40
			3.91	1.48	2.20	850 (58)	850 (58)	1.48	2.21	850 (58)	850 (58)	XS	80
1	1.315	33.40	3.38	1.68	2.50	700 (48)	700 (48)	1.68	2.50	700 (48)	700 (48)	STD	40
			4.55	2.17	3.24	850 (58)	850 (58)	2.19	3.25	850 (58)	850 (58)	XS	80
1 1/4	1.660	42.16	3.56	2.27	3.39	1,200 (89)	1,300 (89)	2.28	3.40	1,200 (89)	1,300 (89)	STD	40
			4.85	3.00	4.47	1,800 (123)	1,900 (129)	3.03	4.49	1,800 (123)	1,900 (129)	XS	80
1 1/2	1.900	48.26	3.68	2.72	4.05	1,200 (82)	1,300 (88)	2.74	4.04	1,200 (82)	1,300 (88)	STD	40
			5.08	3.63	5.41	1,800 (123)	1,900 (129)	3.65	5.39	1,800 (123)	1,900 (129)	XS	80
2	2.375	60.32	3.91	3.66	5.44	2,300 (156)	2,500 (170)	3.68	5.46	2,300 (156)	2,500 (170)	STD	40
			5.54	5.03	7.48	2,500 (170)	2,500 (170)	5.08	7.58	2,500 (170)	2,500 (170)	XS	80
2 1/2	2.875	73.02	5.16	5.80	8.63	2,500 (170)	2,500 (170)	5.85	8.67	2,500 (170)	2,500 (170)	STD	40
			7.01	7.67	11.41	2,500 (170)	2,500 (170)	7.75	11.52	2,500 (170)	2,500 (170)	XS	80
3	3.500	88.90	5.49	7.58	11.29	2,220 (151)	2,500 (170)	7.68	11.35	2,220 (151)	2,500 (170)	STD	40
			7.62	10.26	15.27	2,500 (170)	2,500 (170)	10.35	15.39	2,500 (170)	2,500 (170)	XS	80
3 1/2	4.000	101.60	5.74	9.12	13.57	2,030 (138)	2,370 (161)	9.27	13.71	2,030 (138)	2,370 (161)	STD	40
			8.08	12.52	18.63	2,800 (191)	2,800 (191)	12.67	18.82	2,800 (191)	2,800 (191)	XS	80
4	4.500	114.30	6.62	10.80	16.07	1,900 (129)	2,210 (151)	10.92	16.23	1,900 (129)	2,210 (151)	STD	40
			8.56	15.00	22.32	2,700 (184)	2,700 (191)	15.20	22.60	2,700 (184)	2,700 (191)	XS	80
5	5.563	141.30	6.55	14.63	21.77	1,670 (114)	1,950 (133)	14.90	22.07	1,670 (114)	1,950 (133)	STD	40
			9.52	20.80	30.94	2,430 (165)	2,800 (191)	21.04	31.42	2,430 (165)	2,800 (191)	XS	80
6	6.625	168.32	7.11	18.99	28.26	1,520 (104)	1,780 (121)	19.34	28.58	1,520 (104)	1,780 (121)	STD	40
			10.97	28.60	42.56	2,350 (160)	2,740 (187)	28.88	43.05	2,350 (160)	2,740 (187)	XS	80
8	8.625	219.10	8.18	28.58	42.55	1,340 (91)	1,570 (107)	29.35	43.73	1,340 (91)	1,570 (107)	STD	40
			12.70	43.43	64.64	2,090 (142)	2,430 (165)	44.00	65.41	2,090 (142)	2,430 (165)	XS	80
10	10.750	273.00	4.78	21.23	31.62	630 (43)	730 (50)	21.23	31.62	1,200 (8.30)	-	-	-
			12.70	54.79	81.52	1,670 (115)	1,950 (134)	55.00	82.02	630 (43)	-	xs	60
12	12.750	323.80	6.35	33.41	49.71	710 (49)	820 (57)	33.41	50.00	1,670 (115)	-	-	20
			12.70	65.48	97.43	1,410 (97)	1,650 (114)	65.48	94.43	710 (48)	-	XS	-
14	14.000	355.60	6.35	36.75	54.69	640 (44)	750 (52)	37.00	54.69	1,410 (96)	-	-	10
			12.70	72.16	107.39	1,290 (89)	1,500 (103)	72.16	107.39	640 (44)	-	XS	-
16	16.000	406.40	6.35	42.09	62.64	560 (39)	660 (45)	42.09	62.64	1,290 (88)	-	-	10
			12.70	82.85	123.30	1,120 (77)	1,310 (90)	83.00	123.00	560 (38)	-	XS	40
18	18.000	457.00	6.35	47.44	70.60	500 (34)	580 (40)	74.44	71.00	1,120 (76)	-	-	10
			12.70	93.57	139.20	1,000 (69)	1,170 (81)	93.54	139.20	500 (34)	-	xs	-
20	20.000	508.00	6.35	52.78	78.55	450 (31)	520 (36)	53.00	78.55	1,000 (68)	-	-	10
			12.70	104.23	155.12	900 (62)	1,050 (72)	104.23	155.12	450 (31)	-	xs	30
24	24.000	610.00	6.35	63.47	94.46	380 (26)	440 (36)	63.47	94.46	680 (26)	-	-	10
			30.93	296.86	441.78	1,830 (126)	2,130 (147)	297.00	442.00	1,830 (124)	-	-	80

TECHNICAL SPECIFICATIONS :

ELECTRIC RESISTANCE WELDED	CHEMICAL COMPOSITION				MECHANICAL PROPERTIES	
	C	Mn	P	S	TENSILE STRENGTH	YIELD STRENGTH
(TYPE-E)	MAX %	MAX %	MAX %	MAX %	MIN	MIN
Grade A	0.25	0.95	0.05	0.06	330 N/mm ²	205 N/mm ²
Grade B	0.30	1.20	0.05	0.06	415 N/mm ²	240 N/mm ²

DIMENSION TOLERANCE :

Permissible variation	
Outside Diameter	: 1 1/2" and under $\pm 1/64$ " (0.4 mm.)
	: 2" and over ± 1 %
Thickness	: - 12.5 % , + not specified
Length	: + 50 mm. - 0 mm.
Weight	: + 10 % per piece