WATER PIPES

ERW HFW

CARBON STEEL PIPES FOR GENERAL APPLICATIONS | **ASTM A53 : 2012 | GRADE A / GRADE B**

NOMINAL DIAMETER		SPECIFIED OUTSIDE DIAMETER	SPECIFIED WALL THICKNESS	NOMINAL WEIGHT PLAIN END	SCHEDULE No
mm	inch	mm	mm	kg/m	
15	½	21.3	2.77	1.27	40
20	¾	26.7	2.87	1.69	40
25	1	33.4	3.38	2.50	40
32	1¼	42.2	3.56	3.39	40
40	1½	48.3	3.68	4.05	40
50	2	60.3	3.91	5.44	40
65	2½	73.0	5.16	8.63	40
80	3	88.9	5.49	11.29	40
90	3½	101.6	5.74	13.57	40
100	4	114.3	6.02	16.07	40
125	5	141.3	6.55	21.77	40
150	6	168.3	7.11	28.26	40
200	8	219.1	6.35	33.31	20
		219.1	7.04	36.31	30
		219.1	8.18	42.55	40
250	10	273.0	6.35	41.75	20
		273.0	9.27	60.29	40
300	12	323.8	6.35	49.71	20
		323.8	9.52	73.78	STD
		323.8	10.31	79.70	40

CARBON STEEL PIPES FOR PRESSURE SERVICES | **JIS G 3454 : 2012 (STPG)**

SYMBOL OF GRADE	TENSILE STRENGTH kgf/mm^2 (N/mm^2)	YIELD STRENGTH kgf/mm^2 (N/mm^2)
STPG 38	38 Min (373 Min)	22 Min (216 Min)
STPG 42	42 Min (412 Min)	25 Min (245 Min)

NOMINAL DIAMETER		SPECIFIED OUTSIDE DIAMETER	SCHEDULE 20		SCHEDULE 40	
			WALL THICKNESS	UNIT MASS	WALL THICKNESS	UNIT MASS
mm	inch	mm	mm	kg/m	mm	kg/m
15	½	21.7	-	-	2.8	1.31
20	¾	27.2	-	-	2.9	1.74
25	1	34.0	-	-	3.4	2.57
32	1¼	42.7	-	-	3.6	3.47
40	1½	48.6	-	-	3.7	4.10
50	2	60.5	3.2	4.52	3.9	5.44
65	2½	76.3	4.5	7.97	5.2	9.12
80	3	89.1	4.5	9.39	5.5	11.3
90	3½	101.6	4.5	10.8	5.7	13.5
100	4	114.3	4.9	13.2	6.0	16.0
125	5	139.8	5.1	16.9	6.6	21.7
150	6	165.2	5.5	21.7	7.1	27.7
200	8	216.3	6.4	33.1	8.2	42.1
250	10	267.4	6.4	41.2	9.3	59.2
300	12	318.5	6.4	49.3	10.3	78.3

Electric Resistance Welded (ERW) or High Frequency Welding (HFW) steel pipes is based on welding in flat sheet rolled into a tube. Through its proven coating process, SPINDO® steel water pipe fulfill various industrial standard.

Pengelasan elektrik (ERW) atau pengelasan elektrik frekwensi tinggi (HFW) untuk pipa baja mengacu pada pengelasan pada lembaran yang digulung menjadi bentuk tabung. Melalui proses pelapisan yang telah teruji, pipa baja SPINDO® memenuhi berbagai standar kelayakan penggunaannya sebagai pipa air.

WATER PIPES
ERW
HFW

STANDAR NASIONAL INDONESIA

PIPA BAJA SALURAN AIR DENGAN / TANPA LAPISAN SENG | **SNI 0039 : 2013**

Hydrostatic Test	: 50 kgf / cm²
Tolerance on Wall Thickness	: +10% & -8% (TIPIS*)
	: +15% & -10% (MEDIUM*)
	: +15% & -12.5% (TEBAL*)
Standard Length	: 6 m / pc or 12 m / pc

UKURAN	DIAMETER DALAM NOMINAL		DIAMETER LUAR	TEBAL	BERAT NOMINAL PIPA TANPA LAPIS SENG SEBELUM DIULIR
	mm	inch	mm	mm	kg/m
TIPIS*	15	½	21.4	2.0	0.947
	20	¾	26.8	2.3	1.38
	25	1	33.6	2.6	1.98
	32	1¼	42.3	2.6	2.54
	40	1½	48.2	2.9	3.23
	50	2	60.2	2.9	4.08
	65	2½	76.0	3.2	5.71
	80	3	88.8	3.2	6.72
	100	4	114.1	3.6	9.75
	125	5	139.7	3.6	12.08
	150	6	165.1	3.6	14.34
	200	8	219.1	5.0	26.40
MEDIUM*	15	½	21.3	2.6	1.21
	20	¾	26.9	2.6	1.56
	25	1	33.7	3.2	2.41
	32	1¼	42.4	3.2	3.10
	40	1½	48.3	3.2	3.56
	50	2	60.3	3.6	5.03
	65	2½	76.1	3.6	6.42
	80	3	88.9	4.0	8.36
	100	4	114.3	4.5	12.2
	125	5	139.7	5.0	16.6
	150	6	165.1	5.0	19.8
	200	8	219.1	6.4	33.32
TEBAL*	15	½	21.3	3.2	1.44
	20	¾	26.8	3.2	1.87
	25	1	33.8	4.0	2.94
	32	1¼	42.5	4.0	3.80
	40	1½	48.4	4.0	4.38
	50	2	60.3	4.5	6.19
	65	2½	76.0	4.5	7.93
	80	3	88.8	5.0	10.30
	100	4	114.1	6.0	15.99
	125	5	139.7	6.6	21.92
	150	6	168.3	7.1	28.22
	200	8	219.1	8.2	42.65

*These terms refers to "Standar Nasional Indonesia (SNI)"