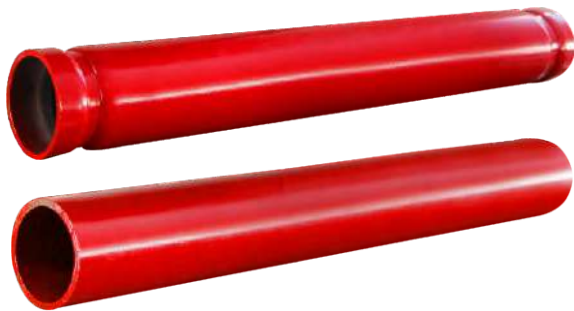


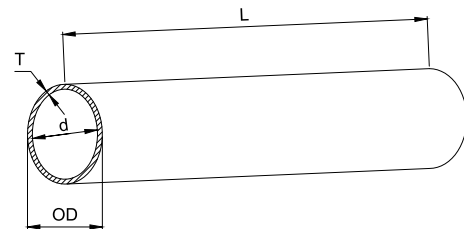
ASTM A53 ERW steel pipe

ERW steel pipe is formed by rolling strip and welding the seam, with tighter dimensional tolerances and less weight. The weld seam is heat treated after welding that no untempered martensite remains, and the weld flash can be removed from both inner and outer surfaces.

ASTM A53 ERW steel pipe is a typical carbon steel pipe. It is largely used to convey fluids at low / medium pressures such as oil, gas, steam, water, air and also for mechanical applications.



- Certificate: UL listed
- Standard: ASTM A53, Type E, Grade B
- Dimension: Sch10 / Sch40 as ASME B36.10M
- Application: Fire main pipe, fire pump pipe, fire standpipe, fire sprinkler branch pipe



Supply scope for sch10 pipe (UL Listed)

Size			Thickness	Mass	Test pressure	Model
NPS	DN	OD(mm)	T(mm)	kg/m	MPa	
1/2"	15	21.3	2.11	1.00	4.8	P01-1015(UL)
3/4"	20	26.7	2.11	1.28	4.8	P01-1020(UL)
1"	25	33.4	2.77	2.09	4.8	P01-1025(UL)
1-1/4"	32	42.2	2.77	2.69	9.0	P01-1032(UL)
1-1/2"	40	48.3	2.77	3.11	9.0	P01-1040(UL)
2"	50	60.3	2.77	3.93	13.2	P01-1050(UL)
2-1/2"	65	73.0	3.05	5.26	12.0	P01-1065(UL)
3"	80	88.9	3.05	6.46	9.9	P01-1080(UL)
4"	100	114.3	3.05	8.37	7.7	P01-10100(UL)
5"	125	141.3	3.40	11.56	6.9	P01-10125(UL)
6"	150	168.3	3.40	13.83	5.8	P01-10150(UL)
8"	200	219.1	3.76	19.97	4.9	P01-10200(UL)
10"	250	273.0	4.19	27.78	4.4	P01-10250(UL)
12"	300	323.8	4.57	35.98	4.1	P01-10300 (UL)

* The manufacturing method is HFW (high frequency electric resistance welding).

ASTM A53 ERW steel pipe

Supply scope for sch40 pipe (UL Listed)

Size			Thickness	Mass	Test pressure	Model
NPS	DN	OD(mm)	T(mm)	kg/m	MPa	
1/2"	15	21.3	2.77	1.27	4.8	P01-4015(UL)
3/4"	20	26.7	2.87	1.69	4.8	P01-4020(UL)
1"	25	33.4	3.38	2.50	4.8	P01-4025(UL)
1-1/4"	32	42.2	3.56	3.39	9.0	P01-4032(UL)
1-1/2"	40	48.3	3.68	4.05	9.0	P01-4040(UL)
2"	50	60.3	3.91	5.44	17.2	P01-4050(UL)
2-1/2"	65	73.0	5.16	8.63	17.2	P01-4065(UL)
3"	80	88.9	5.49	11.29	17.2	P01-4080(UL)
4"	100	114.3	6.02	16.08	15.2	P01-40100(UL)
5"	125	141.3	6.55	21.77	13.4	P01-40125(UL)
6"	150	168.3	7.11	28.26	12.3	P01-40150(UL)
8"	200	219.1	8.18	42.55	10.8	P01-40200(UL)
10"	250	273.0	9.27	60.29	9.9	P01-40250(UL)
12"	300	323.8	10.31	79.71	9.2	P01-40300 (UL)

* The manufacturing method is HFW (high frequency electric resistance welding), and available UOE/JCOE of LSAW for large size.

Permissible variations for A53 ERW steel pipe

Size			OD tolerance	THS tolerance		Remark
NPS	DN	OD(mm)	mm	sch10 (mm)	sch40 (mm)	
1/2"	15	21.3	20.9 ~ 21.7	1.85 ~ 2.53	2.42 ~ 3.32	1. For pipe ≤ NPS 1-1/2", OD tolerance is ± 0.40mm. 2. For pipe ≥ NPS 2", OD tolerance is ± 1%. 3. The min THS at any point is not more than 12.5%. 4. The max THS is not defined in ASTM A53 refers to ASTM A530 with 20%, 22.5% or 15% as t/D ratio.
3/4"	20	26.7	26.3 ~ 27.1	1.85 ~ 2.53	2.51 ~ 3.44	
1"	25	33.4	33.0 ~ 33.8	2.42 ~ 3.32	2.96 ~ 4.06	
1-1/4"	32	42.2	41.8 ~ 42.6	2.42 ~ 3.32	3.12 ~ 4.27	
1-1/2"	40	48.3	20.8 ~ 21.8	2.42 ~ 3.32	3.22 ~ 4.42	
2"	50	60.3	59.7 ~ 60.9	2.42 ~ 3.32	3.42 ~ 4.69	
2-1/2"	65	73.0	72.3 ~ 73.7	2.67 ~ 3.66	4.52 ~ 6.19	
3"	80	88.9	88.0 ~ 89.8	2.67 ~ 3.74	4.80 ~ 6.31	
4"	100	114.3	113.2 ~ 115.4	2.67 ~ 3.74	5.27 ~ 7.37	
5"	125	141.3	139.9 ~ 142.7	2.98 ~ 4.17	5.73 ~ 8.02	
6"	150	168.3	166.6 ~ 170.0	2.98 ~ 4.17	6.22 ~ 8.71	
8"	200	219.1	216.9 ~ 221.3	3.29 ~ 4.61	7.16 ~ 10.02	
10"	250	273.0	270.3 ~ 275.7	3.67 ~ 5.13	8.11 ~ 11.36	
12"	300	323.8	320.6 ~ 327.0	4.00 ~ 5.60	9.02 ~ 12.63	

Note:

1. For exact length (cut length), length tolerance is -0.0mm / +6.0mm, as ASTM A530.
2. The weight (mass) tolerance of unit pipe is ±10%.
3. For pipe ≤ NPS 4", weight is measured as per bundle. For pipe > NPS 4", measured as per individual length.