

ASTM A795 ERW Fire Fighting Pipes



Certification	UL/ FM
Standard	ASTM A795/ UL 852
Grade	Gr.A/ B
Out Diameter	1/2" - 14" (DN15 - DN350)
Wall Thickness	2.11-7.80 mm
Length	5.8M/ 6M /12M or Customized
Ends	Plain/ Beveled/ Roll groove/ NPT/ BSPT
Usage	wet, dry, preaction, or deluge sprinkler systems
Surface	Red/ Black/ Red epoxy or polyester/ Galvanized

Available size for Sch10 pipe (Light-weight pipe)

Size			Thickness	Mass	Test pressure	Ref. No.
NPS	DN	OD (mm)	T(mm)	kg/m	MPa	
3/4"	20	26.7	2.11	1.28	4.8	P0202(UU/FM)
1"	25	33.4	2.77	2.09	4.8	P0203 (ULFM)
1-1/4"	32	42.2	2.77	2.69	6.9	P0204(UL/FM)
1-1/2"	40	48.3	2.77	3.11	6.9	P0205 (UL/FM)
2"	50	60.3	2.77	3.93	6.9	P0206 (UL/FM)
2-1/2"	65	73.0	3.05	5.26	6.9	P0207(UL/FM)
3"	80	88.9	3.05	6.46	6.9	P0208 (ULFM)
4"	100	114.3	3.05	8.37	8.3	P0209(UL/FM)
5"	125	141.3	3.40	11.56	8.3	P0210 (ULFM)
6"	150	168.3	3.40	13.83	6.9	P0211(UL/FM)
8"	200	219.1	4.78	25.26	5.5	P0212 (UL/FM)
10"	250	273.1	4.78	31.63	4.8	P0213(UL)

Available size for Sch40 pipe (Standard-weight pipe)

Size			Thickness	Mass	Test pressure	Ref.No.
NPS	DN	OD (mm)	T(mm)	kg/m	MPa	
1/2"	15	21.3	2.77	1.27	4.8	PO221(ISO)
3/4"	20	26.7	2.87	1.69	4.8	PO222 (ISO)
1"	25	33.4	3.38	2.50	4.8	P0223(UL)
1-1/4"	32	42.2	3.56	3.39	6.9	PO224(UL)
1-1/2"	40	48.3	3.68	4.05	6.9	PO225(UL)
2"	50	60.3	3.91	5.44	6.9	P0226 (UL)
2-1/2"	65	73.0	5.16	8.63	6.9	P0227(UL)
3"	80	88.9	5.49	11.29	6.9	PO228(UL)
4"	100	114.3	6.02	16.08	8.3	P0229(UL)
5"	125	141.3	6.55	21.77	8.3	P0230 (UL)
6"	150	168.3	7.11	28.26	8.3	P0231(UL)
8"	200	219.1	7.04	36.82	8.3	P0232 (ISO)
10"	250	273.1	7.80	51.03	6.9	P0233 (ISO)

Permissible variations

Size			OD tolerance	THK tolerance		Remark
NPS	DN	OD (mm)	mm	Sch10 (mm)	Sch40 (mm)	
1/2"	15	21.3	20.9 ~ 21.7	/	2.42 ~ 3.32	1.For pipe ≤ NPS 1-1/2", OD tolerance is ±0.4mm.
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	2.For pipe ≥ NPS 2", OD tolerance is ±1%.
1-1/2"	40	48.3	47.9 ~ 48.7	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.The min THK at any point is not more than 12.5%.
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	4. The max THK is not defined in ASTM A795, and BAOLAI refers to ASTM A530 with 20%, 22.5% or 15% as t/D ratio.
6"	150	168.3	166.6 ~ 170.0	2.98 ~ 4.17	6.22 ~ 8.71	
8"	200	219.1	216.9 ~ 221.3	4.18 ~ 5.86	6.16 ~ 8.62	
10"	250	273.1	270.4 ~ 275.8	4.18 ~ 5.86	6.83 ~ 9.56	