



FiGuard-40

Carbon Steel Pipes for Fire Protection Use

ท่อเหล็กกล้า สำหรับงานระบบดับเพลิง



Grade	% Chemical Composition (Max)										Mechanical Properties (Min)		
	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Yield Strength	Tensile Strength	Elongation
											MPa	MPa	%
Grade A	0.25	-	0.95	0.05	0.045	0.40	0.40	0.40	0.15	0.08	205	330	As Per Standard
Grade B	0.30	-	1.20	0.05	0.045	0.40	0.40	0.40	0.15	0.08	240	415	As Per Standard

Nominal Size		Outside Diameter	Thickness	Weight (plain end)	Rated Working Pressure	Hydrostatic Test Pressure				Schedule
mm	inch	mm	mm	kg/m	psi	Grade A		Grade B		
						psi	kPa	psi	kPa	
25	1"	33.40	3.38	2.50	300	1200	8300	1200	8300	40
32	1 1/4"	42.20	3.56	3.39	300	1200	8300	1300	9000	40
40	1 1/2"	48.30	3.68	4.05	300	1200	8300	1300	9000	40
50	2"	60.30	3.91	5.44	300	2300	15900	2500	17200	40
65	2 1/2"	73.00	5.16	8.63	300	2500	17200	2500	17200	40
80	3"	88.90	5.49	11.29	300	2220	15300	2500	17200	40
90	3 1/2"	101.60	5.74	13.57	300	2030	14000	2370	16300	40
100	4"	114.30	6.02	16.07	300	1900	13100	2210	15200	40
125	5"	141.30	6.55	21.77	300	1670	11500	1950	13400	40
150	6"	168.30	7.11	28.26	300	1520	10500	1780	12300	40
200	8"	219.10	8.18	42.55	300	1340	9200	1570	10800	40
250	10"	273.00	9.27	60.29	300	1220	8400	1430	9900	40
300	12"	323.80	10.31	79.70	300	1150	8300	1340	9200	40

Dimension Tolerances	Outside Diameter	Thickness	Weight	Length
	NPS ≤ 1 1/2 in (40 mm) NPS ≥ 2 in (50 mm)	: ±0.016 in (0.41 mm) : ±1% from specified OD	-12.5 % , +Not Limit	±10% -0 mm , + 50 mm



Metallic Sprinkler Pipe for Fire Protection Service

ท่อเหล็กกล้า สำหรับงานระบบดับเพลิง



Nominal Size		Outside Diameter	Thickness	Weight (plain end)	Hydrostatic Test Pressure (Grade A, B)				Schedule
mm	inch	mm	mm	kg/m	for 1 minute		for 5 seconds		
					psi	kPa	psi	kPa	
15	1/2"	21.30	2.77	1.27	600	4100	1200	8300	40
20	3/4"	26.70	2.87	1.69	600	4100	1200	8300	40
25	1"	33.40	3.38	2.50	600	4100	1200	8300	40
32	1 1/4"	42.20	3.56	3.39	600	4100	1200	8300	40
40	1 1/2"	48.30	3.68	4.05	600	4100	1200	8300	40
50	2"	60.30	3.91	5.44	600	4100	1200	8300	40
65	2 1/2"	73.00	5.16	8.63	600	4100	1200	8300	40
80	3"	88.90	5.49	11.29	600	4100	1200	8300	40
90	3 1/2"	101.60	5.74	13.57	600	4100	1200	8300	40
100	4"	114.30	6.02	16.07	600	4100	1200	8300	40
125	5"	141.30	6.55	21.77	600	4100	1200	8300	40
150	6"	168.30	7.11	28.26	600	4100	1200	8300	40
200	8"	219.10	8.18	42.55	600	4100	1200	8300	40

Dimension Tolerances	Outside Diameter	Thickness	Weight
	NPS ≤ 1 1/2 in (40 mm) NPS ≥ 2 in (50 mm)	: ±0.016 in (0.41 mm) : ±1% from specified OD	-12.5 % , +Not Limit ±10%