

# Steel pipe fittings

Future Iron Pipes provides all required fittings and accessories related to pipe installation, designed and manufactured to meet the client requirements .

## Lining of fittings

The fittings are lined with cement mortar according to AWWA C205

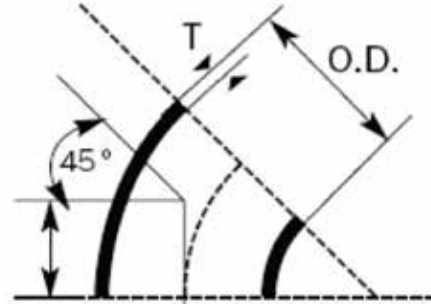
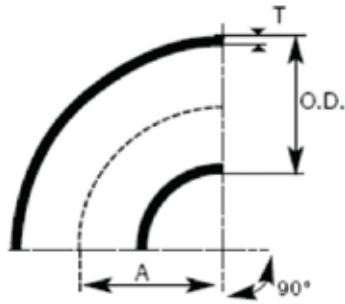
## Standards:

### Steel pipes fittings:

ASTM A234 / A234M: Piping fittings of wrought carbon steel and alloy steel for moderate and high temperature service

### Internal cement lining:

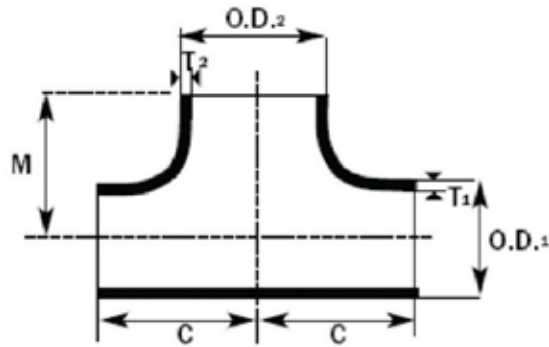
AWWA C205: Cement–mortar protective lining and coating for steel water pipe



## Long radius elbows

Nominal size(in)	Outside diameter(mm)	Center to end (A)		Wall thickness (mm)(T)								
		90 deg . Elbows	45 deg. Elbows	SCH10	SCH20	SCH30	STD	SCH40	SCH60	XS	SCH80	SCH100
2	60.3	76	35	2.77		3.18	3.91	3.91		5.54	5.54	
3	88.9	114.3	50.8	3.05		4.78	5.49	5.49		7.62	7.62	
4	114.3	152.4	63.5	3.05		4.78	6.02	6.02		8.56	8.56	
6	168.27	228.6	95.25	3.04			7.11	7.11		10.97	10.97	
8	219.08	304.8	127	3.76	6.35	7.04	8.18	8.18	10.31	12.7	12.7	15.09
10	273.05	381	158.75	4.19	6.35	7.8	9.27	9.27	12.7	12.7	15.09	18.26
12	323.85	457.2	190.5	4.57	6.35	8.38	9.53	10.31	14.27	12.7	17.48	21.44
14	355.6	533.4	222.25	6.35	7.92	9.53	9.53	11.13	15.09	12.7	19.05	23.83
16	406.4	609.6	254	6.35	7.92	9.53	9.53	12.7	16.66	12.7	21.44	26.19

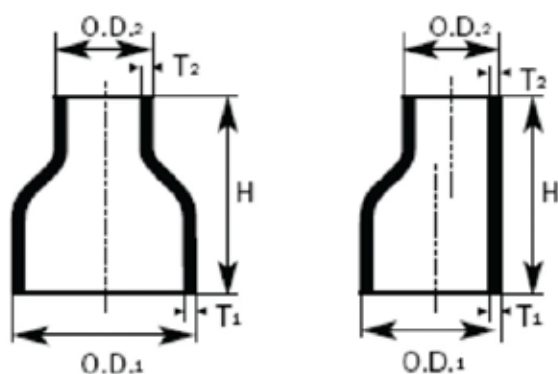
(ASTM A234 / A234M)



## Reducing tee

Nominal size (in)	Outside diameter at bevel (mm)		Center to end (mm)		Wall thickness (mm)									
	D1	D2	C	M	SCH10		STD		SCH40		XS		SCH80	
					T1	T2	T1	T2	T1	T2	T1	T2	T1	T2
3×2	88.90	60.30	85.85	76.20	3.05	2.77	5.49	3.91	5.49	3.91	7.62	5.54	7.62	5.54
4×2	114.30	60.30	104.90	88.90	3.05	2.77	6.02	3.91	6.02	3.91	8.56	5.54	8.56	5.54
4×3	114.30	88.90	104.90	98.55	3.05	3.05	6.02	5.49	6.02	5.49	8.56	7.62	8.56	7.62
6×3	168.27	88.90	143.00	123.95	3.40	3.05	7.11	5.49	7.11	5.49	10.97	7.62	10.97	7.62
6×4	168.27	114.3	143.00	130.30	3.40	3.05	7.11	6.02	7.11	6.02	10.97	8.56	10.97	8.56
8×4	219.08	114.3	177.80	155.70	3.76	3.05	8.18	6.02	8.18	6.02	12.70	8.56	12.7	8.56
8×6	219.08	168.27	177.80	168.40	3.76	3.40	8.18	7.11	8.18	7.11	12.70	10.97	12.7	10.97
10×6	273.05	168.27	215.90	193.80	4.19	3.40	9.27	7.11	9.27	7.11	12.70	10.97	15.09	10.97
10×8	273.05	219.08	215.90	203.20	4.19	3.76	9.27	8.18	9.27	8.18	12.70	12.70	15.09	12.70
12×6	323.85	168.27	254.00	219.20	4.57	3.40	9.53	7.11	10.31	7.11	12.70	10.97	17.48	10.97
12×8	323.85	219.08	254.00	229.00	4.57	3.76	9.53	8.18	10.31	8.18	12.70	12.70	17.48	12.70
12×10	323.85	273.05	254.00	241.30	4.57	4.19	9.53	9.27	10.31	9.27	12.70	12.70	17.48	15.09
14×6	355.6	168.27	279.40	238.00	6.35	3.40	9.53	7.11	11.13	7.11	12.70	10.97	19.05	10.97
14×8	355.6	219.08	279.40	247.65	6.35	3.76	9.53	8.18	11.13	8.18	12.70	12.70	19.05	12.70
14×10	355.6	273.05	279.40	257.00	6.35	4.19	9.53	9.27	11.13	9.27	12.70	12.70	19.05	15.09
14×12	355.6	323.85	279.40	270.00	6.35	4.57	9.53	9.53	11.13	10.31	12.70	12.70	19.05	17.48
16×6	406.4	168.27	304.8	264.00	6.35	3.40	9.53	7.11	12.7	7.11	12.7	10.97	21.474	10.97
16×8	406.4	219.08	304.8	273.00	6.35	3.76	9.53	8.18	12.7	8.18	12.7	12.70	21.474	12.70
16×10	406.4	273.05	304.8	282.70	6.35	4.19	9.53	9.27	12.7	9.27	12.7	12.70	21.474	15.09
16×12	406.4	323.85	304.8	295.40	6.35	4.57	9.53	9.53	12.7	10.31	12.7	12.70	21.474	17.48
16×14	406.4	355.60	304.8	304.80	6.35	6.35	9.53	9.53	12.7	11.13	12.7	12.70	21.474	19.05

(ASTM A234 / A234M)



## Concentric and eccentric reducers

Nominal size(in)	Outside diameter at bevel(mm)		Wall thickness (mm)										Length(H)
	OD1	OD2	SCH10		STD		SCH40		XS		SCH80		
			T1	T2	T1	T2	T1	T2	T1	T2	T1	T2	
3×2	88.9	60.3	3.05	2.77	5.49	3.91	5.49	3.91	7.62	5.54	7.62	5.54	88.90
4×2	114.3	60.3	3.05	2.77	6.02	3.91	6.02	3.91	8.56	5.54	8.56	5.54	101.60
4×3	114.3	88.9	3.05	3.05	6.02	5.49	6.02	5.49	8.56	7.62	8.56	7.62	101.60
6×3	168.27	88.9	3.40	3.05	7.11	5.49	7.11	5.49	10.97	7.62	10.97	7.62	139.70
6×4	168.27	114.3	3.40	3.05	7.11	6.02	7.11	6.02	10.97	8.56	10.97	8.56	139.70
8×4	219.08	114.3	3.76	3.05	8.18	6.02	8.18	6.02	12.70	8.56	12.7	8.56	152.40
8×6	219.08	168.27	3.76	3.40	8.18	7.11	8.18	7.11	12.70	10.97	12.7	10.97	152.40
10×6	273.05	168.27	4.19	3.40	9.27	7.11	9.27	7.11	12.70	10.97	15.09	10.97	177.80
10×8	273.05	219.08	4.19	3.76	9.27	8.18	9.27	8.18	12.70	12.70	15.09	12.70	177.80
12×6	323.85	168.27	4.57	3.40	9.53	7.11	10.31	7.11	12.70	10.97	17.48	10.97	203.20
12×8	323.85	219.08	4.57	3.76	9.53	8.18	10.31	8.18	12.70	12.70	17.48	12.70	203.20
12×10	323.85	273.05	4.57	4.19	9.53	9.27	10.31	9.27	12.70	12.70	17.48	15.09	203.20
14×6	355.6	168.27	6.35	3.40	9.53	7.11	11.13	7.11	12.70	10.97	19.05	10.97	330.20
14×8	355.6	219.08	6.35	3.76	9.53	8.18	11.13	8.18	12.70	12.70	19.05	12.70	330.20
14×10	355.6	273.05	6.35	4.19	9.53	9.27	11.13	9.27	12.70	12.70	19.05	15.09	330.20
14×12	355.6	323.85	6.35	4.57	9.53	9.53	11.13	10.31	12.70	12.70	19.05	17.48	330.20
16×6	406.4	168.27	6.35	3.40	9.53	7.11	12.7	7.11	12.7	10.97	21.474	10.97	355.60
16×8	406.4	219.08	6.35	3.76	9.53	8.18	12.7	8.18	12.7	12.70	21.474	12.70	355.60
16×10	406.4	273.05	6.35	4.19	9.53	9.27	12.7	9.27	12.7	12.70	21.474	15.09	355.60
16×12	406.4	323.85	6.35	4.57	9.53	9.53	12.7	10.31	12.7	12.70	21.474	17.48	355.60
16×14	406.4	355.6	6.35	6.35	9.53	9.53	12.7	11.13	12.7	12.70	21.474	19.05	355.60

(ASTM A234 / A234M)