

Code:126-4-1



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## CASING PIPE

Standard : API SPEC 5CT, API SPEC 5B, ISO11960

Application:

Tubing is used in petroleum and natural gas field , casing pipe serves as walls of a well.

Size	Nominal Weight lb/ft	Outside diameter		Wall thickness		Type of end-finish							
		In.	mm	In.	mm	Grade							
						H-40	J-55 K-55	M-65	L-80 C-95	N-80 1, O	C-90 T-95	P-110	Q-125
4 1/2"	9.5	4.5	114.3	0.205	5.21	PS	PS	PS	---	---	---	---	---
	10.5	4.5	114.3	0.224	5.69	---	PSB	PSB	---	---	---	---	---
	11.6	4.5	114.3	0.25	6.35	---	PSLB	PLB	PLB	PLB	PLB	PLB	---
	13.5	4.5	114.3	0.29	7.37	---	---	PLB	PLB	PLB	PLB	PLB	---
	15.1	4.5	114.3	0.337	8.56	---	---	---	---	---	---	PLB	PLB
5"	11.5	5	127	0.22	5.59	---	PS	PS	---	---	---	---	---
	13	5	127	0.253	6.43	---	PSLB	PSLB	---	---	---	---	---
	15	5	127	0.296	7.52	---	PSLB	PLB	PLB	PLB	PLB	PLB	---
	18	5	127	0.362	9.19	---	---	PLB	PLB	PLB	PLB	PLB	PLB
	21.4	5	127	0.437	11.1	---	---	PLB	PLB	PLB	PLB	PLB	PLB
	23.2	5	127	0.478	12.14	---	---	---	PLB	PLB	PLB	PLB	PLB
	24.1	5	127	0.5	12.7	---	---	---	PLB	PLB	PLB	PLB	PLB
5 1/2"	14	5.5	139.7	0.244	6.2	PS	PS	PS	---	---	---	---	---
	15.5	5.5	139.7	0.275	6.98	---	PSLB	PSLB	---	---	---	---	---
	17	5.5	139.7	0.304	7.72	---	PSLB	PLB	PLB	PLB	PLB	PLB	---
	20	5.5	139.7	0.361	9.17	---	---	PLB	PLB	PLB	PLB	PLB	---
	23	5.5	139.7	0.415	10.54	---	---	PLB	PLB	PLB	PLB	PLB	PLB
	26.8	5.5	139.7	0.5	12.7	---	---	---	---	---	P	---	---
	29.7	5.5	139.7	0.562	14.27	---	---	---	---	---	P	---	---
	32.6	5.5	139.7	0.625	15.87	---	---	---	---	---	P	---	---
	35.3	5.5	139.7	0.687	17.45	---	---	---	---	---	P	---	---
	38	5.5	139.7	0.75	19.05	---	---	---	---	---	P	---	---
	40.5	5.5	139.7	0.812	20.62	---	---	---	---	---	P	---	---
	43.1	5.5	139.7	0.875	22.23	---	---	---	---	---	P	---	---
6 5/8"	20	6.625	168.28	0.288	7.32	PS	PSLB	PSLB	---	---	---	---	---
	24	6.625	168.28	0.352	8.94	---	PSLB	PLB	PLB	PLB	PLB	PLB	---
	28	6.625	168.28	0.417	10.59	---	---	PLB	PLB	PLB	PLB	PLB	---
	32	6.625	168.28	0.475	12.06	---	---	---	PLB	PLB	PLB	PLB	PLB
7"	17	7	177.8	0.231	5.87	PS	---	---	---	---	---	---	---
	20	7	177.8	0.272	6.91	PS	PS	PS	---	---	---	---	---
	23	7	177.8	0.317	8.05	---	PSLB	PLB	PLB	PLB	PLB	---	---
	26	7	177.8	0.362	9.19	---	PSLB	PLB	PLB	PLB	PLB	PLB	---
	29	7	177.8	0.408	10.36	---	---	PLB	PLB	PLB	PLB	PLB	---
	32	7	177.8	0.453	11.51	---	---	PLB	PLB	PLB	PLB	PLB	---
	35	7	177.8	0.498	12.65	---	---	---	PLB	PLB	PLB	PLB	PLB
	38	7	177.8	0.54	13.72	---	---	---	PLB	PLB	PLB	PLB	PLB
	42.7	7	177.8	0.625	15.87	---	---	---	---	---	P	---	---
	46.4	7	177.8	0.687	17.45	---	---	---	---	---	P	---	---
	50.1	7	177.8	0.75	19.05	---	---	---	---	---	P	---	---
	53.6	7	177.8	0.812	20.62	---	---	---	---	---	P	---	---
	57.1	7	177.8	0.875	22.23	---	---	---	---	---	P	---	---

# SEAMLESS STEEL PIPE

## TUBING

Standard : API SPEC 5CT, API SPEC 5B, ISO11960

Application:

Tubing is used to extract petroleum and natural gas from a well.

Size	Nominal Weight lb/ft		Outside diameter		Wall thickness		Type of end-finish					
	Non-upset T & C	Ex-Upset T & C	In.	mm	In.	mm	Grade					
							J-55	L-80	N-80 1, Q	C-90	T-95	P-110
2 3/8"	4	---	2.375	60.33	0.167	4.24	PN	PN	PN	PN	PN	---
	4.6	4.7	2.375	60.33	0.19	4.83	PNU	PNU	PNU	PNU	PNU	PNU
	5.8	5.95	2.375	60.33	0.254	6.45	---	PNU	PNU	PNU	PNU	PNU
	6.6	---	2.375	60.33	0.295	7.49	---	P	---	P	P	---
	7.35	7.45	2.375	60.33	0.336	8.53	---	PU	---	PU	PU	---
2 7/8"	6.4	6.5	2.875	73.03	0.217	5.51	PUN	PNU	PNU	PNU	PNU	PNU
	7.8	7.9	2.875	73.03	0.276	7.01	---	PNU	PNU	PNU	PNU	PNU
	8.6	8.7	2.875	73.03	0.308	7.82	---	PNU	PNU	PNU	PNU	PNU
	9.35	9.45	2.875	73.03	0.34	8.64	---	PU	---	PU	PU	---
	10.5	---	2.875	73.03	0.392	9.96	---	P	---	P	P	---
3 1/2"	11.5	---	2.875	73.03	0.44	11.18	---	P	---	P	P	---
	7.7	---	3.5	88.9	0.216	5.49	PN	PN	PN	PN	PN	---
	9.2	9.3	3.5	88.9	0.254	6.45	PNU	PNU	PNU	PNU	PNU	PNU
	10.2	---	3.5	88.9	0.289	7.34	PN	PN	PN	PN	PN	---
	12.7	12.95	3.5	88.9	0.375	9.52	---	PNU	PNU	PNU	PNU	PNU
	14.3	---	3.5	88.9	0.43	10.92	---	P	---	P	P	---
4"	15.5	---	3.5	88.9	0.476	12.09	---	P	---	P	P	---
	17	---	3.5	88.9	0.53	13.46	---	P	---	P	P	---
	9.5	---	4	101.6	0.226	5.74	PN	PN	PN	PN	PN	PU
	---	11	4	101.6	0.262	6.65	PU	PU	PU	PU	PU	PU
	13.2	---	4	101.6	0.33	8.38	---	P	---	P	P	---
	16.1	---	4	101.6	0.415	10.54	---	P	---	P	P	---
4 1/2"	18.9	---	4	101.6	0.5	12.7	---	P	---	P	P	---
	22.2	---	4	101.6	0.61	15.49	---	P	---	P	P	---
	12.6	12.75	4.5	114.3	0.271	6.88	PNU	PNU	PNU	PNU	PNU	---
	15.2	---	4.5	114.3	0.337	8.56	---	P	---	P	P	---
	17	---	4.5	114.3	0.38	9.65	---	P	---	P	P	---
	18.9	---	4.5	114.3	0.43	10.92	---	P	---	P	P	---
	21.5	---	4.5	114.3	0.5	12.7	---	P	---	P	P	---
23.7	---	4.5	114.3	0.56	14.22	---	P	---	P	P	---	
26.1	---	4.5	114.3	0.63	16	---	P	---	P	P	---	

Note: Non-Upset T & C; Ex-Upset T & C.  
N—Non-upset threaded and coupled;  
U—External upset threaded and coupled;  
P—Plain end.



## CASING PIPE

	Nominal Weight lb/ft	Outside diameter		Wall thickness		Grade							
		In.	mm	In.	mm	H-40	J-55 K-55	M-65	L-80 C-95	N-80 1, O	C-90 T-95	P-110	Q-125
7 5/8"	24	7.625	193.68	0.3	7.62	PS	-	-	-	-	-	-	-
	26.4	7.625	193.68	0.328	8.33	-	PSLB	PSLB	PLB	PLB	PLB	PLB	-
	29.7	7.625	193.68	0.375	9.53	-	-	PLB	PLB	PLB	PLB	PLB	-
	33.7	7.625	193.68	0.43	10.92	-	-	PLB	PLB	PLB	PLB	PLB	-
	39	7.625	193.68	0.5	12.7	-	-	-	PLB	PLB	PLB	PLB	PLB
	42.8	7.625	193.68	0.562	14.27	-	-	-	PLB	PLB	PLB	PLB	PLB
	45.3	7.625	193.68	0.595	15.11	-	-	-	PLB	PLB	PLB	PLB	PLB
	47.1	7.625	193.68	0.625	15.88	-	-	-	PLB	PLB	PLB	PLB	PLB
	51.2	7.625	193.68	0.687	17.45	-	-	-	-	-	P	-	-
	55.3	7.75	193.68	0.75	19.05	-	-	-	-	-	P	-	-
7 3/4"	46.1	8.625	219.08	0.595	15.11	-	-	-	P	P	P	P	
	24	8.625	219.08	0.264	6.71	-	PS	PS	-	-	-	-	
8 5/8"	28	8.625	219.08	0.304	7.72	PS	-	PS	-	-	-	-	
	32	8.625	219.08	0.352	8.94	PS	PSLB	PSLB	-	-	-	-	
	36	8.625	219.08	0.4	10.16	-	PSLB	PSLB	PLB	PLB	PLB	PSLB	
	40	8.625	219.08	0.45	11.43	-	-	PLB	PLB	PLB	PLB	PLB	
	44	8.625	219.08	0.5	12.7	-	-	-	PLB	PLB	PLB	PLB	
	49	9.625	244.28	0.557	14.15	-	-	-	PLB	PLB	PLB	-	
	55.3	9.625	244.28	0.625	15.88	-	-	-	PLB	PLB	PLB	PLB	
9 5/8"	32.3	9.625	244.48	0.312	7.92	PS	-	-	-	-	-	-	
	36	9.625	244.48	0.352	8.94	PS	PSLB	PSLB	-	-	-	-	
	40	9.625	244.48	0.395	10.03	-	PSLB	PSLB	PLB	PLB	PLB	PLB	
	43.5	9.625	244.48	0.435	11.05	-	-	PLB	PLB	PLB	PLB	PLB	
	47	9.625	244.48	0.472	11.99	-	-	PLB	PLB	PLB	PLB	PLB	
	53.5	9.625	244.48	0.545	13.84	-	-	-	PLB	PLB	PLB	PLB	
	58.4	9.625	244.48	0.595	15.11	-	-	-	PLB	PLB	PLB	PLB	
	59.4	9.625	244.48	0.609	15.57	-	-	-	-	P	-	-	
	64.9	9.625	244.48	0.672	17.07	-	-	-	-	P	-	-	
	70.3	9.625	244.48	0.734	18.64	-	-	-	-	P	-	-	
10 3/4"	75.6	9.625	244.48	0.797	20.24	-	-	-	-	P	-	-	
	32.75	10.75	273.05	0.279	7.09	PS	-	-	-	-	-	-	
	40.5	10.75	273.05	0.35	8.89	PS	PSB	PSB	-	-	-	-	
	45.5	10.75	273.05	0.4	10.16	-	PSB	PSB	-	-	-	-	
	51	10.75	273.05	0.45	11.43	-	PSB	PSB	PSB	PSB	PSB	PSB	
	55.5	10.75	273.05	0.468	12.57	-	-	PSB	PSB	PSB	PSB	PSB	
	60.7	10.75	273.05	0.545	13.84	-	-	-	-	PSB	PSB	PSB	
	65.7	10.75	273.05	0.595	15.11	-	-	-	-	PSB	PSB	PSB	
	73.2	10.75	273.05	0.672	17.07	-	-	-	-	P	-	-	
	79.2	10.75	273.05	0.734	18.64	-	-	-	-	P	-	-	
11 3/4"	85.3	10.75	273.05	0.797	20.24	-	-	-	-	P	-	-	
	42	11.75	298.45	0.333	8.46	PS	-	-	-	-	-	-	
	47	11.75	298.45	0.375	9.53	-	PSB	PSB	-	-	-	-	
	54	11.75	298.45	0.435	11.05	-	PSB	PSB	-	-	-	-	
	65	11.75	298.45	0.534	13.56	-	-	-	P	P	P	P	
	71	11.75	298.45	0.582	14.78	-	-	-	P	P	P	P	
	77	11.75	298.45	0.63	16.01	-	-	-	-	-	-	-	
13 3/8"	48	13.375	339.73	0.33	8.38	PS	-	-	-	-	-	-	
	54.5	13.375	339.73	0.38	9.65	-	PSB	PSB	-	-	-	-	
	61	13.375	339.73	0.43	10.92	-	PSB	PSB	-	-	-	-	
	68	13.375	339.73	0.48	12.19	-	PSB	PSB	PSB	PSB	PSB	PSB	
	72	13.375	339.73	0.514	13.06	-	-	-	PSB	PSB	PSB	PSB]	

P - Plain end; S - Short round thread; L - Long round thread; B - Buttress thread.

## LINE PIPE

Standard : API SPEC 5L ASTM A106、ISO3183、GB/T 9711

Application:

It is used for conveying gas, water, and petroleum for oil and natural gas industries.

INCH	MM	Wall Thickness (mm)						
		SCH20	SCH30	SCH40	STD	SCH80	SCH100	SCH120
1/2	21.3			2.77	2.77	3.73		
3/4	26.7			2.87	2.87	3.91		
1	33.4			3.38	3.38	4.55		
1 1/4	42.2			3.56	3.56	4.85		
1 1/2	48.3			3.68	3.68	5.08		
2	60.3			3.91	3.91	5.54		
2 1/2	73			5.16	5.16	7.01		
3	88.9			5.49	5.49	7.62		
3 1/2	101.8			5.74	5.74	8.08		
4	114.3			6.02	6.02	8.58		11.13
5	141.3			6.55	6.55	9.56		12.7
6	168.3			7.11	7.11	10.97		14.27
8	219.1	6.35	7.04	8.18	8.18	12.7	15.09	18.26
10	273.1	6.35	7.8	9.27	9.27	15.09	18.26	21.44
12	323.9	6.35	8.38	9.53	9.53	17.48	21.44	25.4
14	355.6	7.92	9.53	9.53	9.53	19.05	23.83	27.79
16	406.4	7.92	9.53	9.53	9.53	21.44	26.19	30.96
18	457.2	7.92	11.13	9.53	9.53	23.83	29.36	34.93
20	508	9.53	12.7	9.53	9.53	26.19	32.54	38.1
22	558.8	9.53	12.7	9.53	9.53	28.58	34.93	41.28
24	609.6	9.53	14.27	9.53	9.53	30.96	38.89	46.02
26	660.4	12.7		9.53	9.53			



# FITTING



## CARBON STEEL PIPE FITTING

STANDARD: B16.9

NOMINAL SIZE			WALL THICKNESS(MM)									
ND	INCH	MM	SCH20	SCH30	STD	SCH40	XS	SCH80	SCH100	SCH120	SCH160	XXS
15	1/2	21.3		2.41	2.77	2.77	3.73	3.73			1.78	7.74
20	3/4	26.7		2.41	2.87	2.87	3.91	3.91			5.56	7.82
25	1	33.4		2.9	3.38	3.38	4.55	4.55			6.35	9.09
32	1 1/4	42.2		2.97	3.56	3.56	4.85	4.85			6.35	9.7
40	1 1/2	48.3		3.18	3.68	3.68	5.08	5.08			7.14	10.15
50	2	60.3		3.18	3.91	3.91	5.54	5.54			8.74	11.07
65	2 1/2	73		4.78	5.16	5.16	7.01	7.01			9.53	14.02
80	3	88.9		4.78	5.49	5.49	7.62	7.62			11.13	15.24
90	3 1/2	101.8		4.78	5.74	5.74	8.08	8.08				
100	4	114.3		4.78	6.02	6.02	8.56	8.56		11.13	13.49	17.12
125	5	141.3			6.55	6.55	9.53	9.53		12.7	15.28	19.05
150	6	168.3	4.5		7.11	7.11	10.97	10.97		14.27	18.26	21.35
200	8	219.1	6.35	7.04	8.18	8.18	12.7	12.7	15.09	18.26	23.01	22.23
250	10	273.1	6.35	7.8	9.27	9.27	12.7	15.09	18.26	21.44	28.58	25.4
300	12	323.9	6.35	8.38	9.53	10.31	12.7	17.48	21.44	25.44	33.32	25.4
350	14	355.6	7.92	9.53	9.53	11.13	12.7	19.06	23.83	27.79	35.71	
400	16	406.4	7.92	9.53	9.53	12.7	12.7	21.44	26.19	30.96	40.49	
450	18	457.2	7.92	11.13	9.53	14.27	12.7	23.83	29.36	34.93	45.24	
500	20	508	9.53	12.7	9.53	15.09	12.7	26.19	32.54	38.1	50.01	
550	22	558.8	9.53	12.7	9.53		12.7		34.93	41.26	53.93	
600	24	609.6	9.53	14.27	9.53	17.48	12.7		36.89	46.02	59.54	
650	26	660.4	12.7		9.53		12.7					
700	28	711.1	12.7	15.88	9.53		12.7					
750	30	762	12.7	15.88	9.53		12.7					
800	32	812.8	12.7	15.88	9.53	17.48	12.7					
850	34	863.6	12.7	15.88	9.53	17.48	12.7					
900	36	914.4	12.7	15.88	9.53	19.05	12.7					
950	38	965.2			9.53		12.7					
1000	40	1016			9.53		12.7					
1050	42	1066.8			9.53		12.7					
1100	44	1117.6			9.53		12.7					
1150	46	1168.4			9.53		12.7					
1200	48	1219.2			9.53		12.7					

## 45° AND 90° CARBON STEEL ELBOW

STANDARD: ASME/ANSI B16.9

GRADE: WPB

Nominal Size		Wall Thickness SCH40 (MM)	Theoretical weight		
INCH	MM		45° KG	90° KG	180° KG
1/2	21.3	2.77	0.04	0.08	0.16
3/4	26.7	2.87	0.04	0.08	0.16
1	33.4	3.38	0.08	0.16	0.3
1 1/4	42.2	3.56	0.13	0.25	0.5
1 1/2	48.3	3.68	0.18	0.38	0.72
2	60.3	3.91	0.38	0.65	1.3
2 1/2	73	5.16	0.65	1.29	2.58
3	88.9	5.49	1.02	2.03	4.06
3 1/2	101.8	5.74	1.02	2.03	4.06
4	114.3	6.02	1.93	3.85	7.1
5	141.3	6.55	3.26	6.51	13.6
6	168.3	7.11	6.06	10.1	20.2
8	219.1	8.18	7.96	18.9	21.8
10	273.1	9.27	12.5	25	50
12	323.9	9.53	38.6	66.1	108
14	355.6	9.53	34.1	68.1	136
16	406.4	9.53	44.7	39.3	179
18	457.2	9.53	56.5	113	226
20	508	9.53	70	140	230
22	558.8	9.53	65	170	340
24	609.6	9.53	101	202	404
26	660.4	9.53	119	238	
28	711.1	9.53	138	276	
30	762	9.53	159	318	
32	812.8	9.53	181	362	
34	863.6	9.53	204	408	
36	914.4	9.53	229	458	
38	965.2	9.53	257	514	
40	1016	9.53	285	570	
42	1066.8	9.53	314.5	629	1258
44	1117.6	9.53	345.5	691	1382
46	1168.4	9.53	376.5	753	1506
48	1219.2	9.53	411	822	1644



90° carbon Steel Elbow



45° carbon Steel Elbow



## STRAIGHT AND REDUCING TEE

STANDARD: ASME/ANSI B16.9

GRADE: WPB

Nominal size		Nominal size		Nominal size	
inch	mm	inch	mm	inch	mm
3/4 x 3/4	26.7 x 26.7	4 x 2 1/2	114.3 x 73	12 x 5	323.9 x 141.3
3/4 x 1/2	26.7 x 21.3	4 x 2	114.3 x 60.3	14 x 14	355.6 x 355.6
1 x 1	33.4 x 33.4	4 x 1 1/2	114.3 x 48.3	14 x 6	355.6 x 168.3
1 x 3/4	33.4 x 26.7	5 x 5	141.3 x 141.3	16 x 16	406.4 x 406.4
1 x 1/2	33.4 x 21.3	5 x 4	141.3 x 114.3	16 x 6	406.4 x 168.3
1 1/4 x 1 1/4	42.2 x 42.2	5 x 3 1/2	141.3 x 101.6	18 x 18	457 x 457
1 1/4 x 1	42.2 x 33.4	5 x 3	141.3 x 88.9	18 x 8	457 x 219.1
1 1/4 x 3/4	42.2 x 26.7	5 x 2 1/2	141.3 x 76	20 x 20	508 x 508
1 1/4 x 1/2	42.2 x 21.3	5 x 2	141.3 x 60.3	20 x 8	508 x 219.1
1 1/2 x 1 1/2	48.3 x 48.3	6 x 6	168.3 x 168.3	22 x 22	559 x 559
1 1/2 x 1 1/4	48.3 x 42.2	6 x 5	168.3 x 141.3	22 x 10	559 x 273.1
1 1/2 x 1	48.3 x 33.4	6 x 4	168.3 x 114.3	24 x 24	610 x 610
1 1/2 x 1/2	48.3 x 21.3	6 x 3	168.3 x 88.9	26 x 26	559 x 559
2 x 2	60.3 x 60.3	6 x 2 1/2	168.3 x 73	26 x 12	559 x 323.9
2 x 1 1/2	60.3 x 48.3	8 x 8	219.1 x 219.1	28 x 28	711 x 711
2 x 1 1/4	60.3 x 42.2	8 x 6	219.1 x 168.3	28 x 12	711 x 323.9
2 1/2 x 1	73 x 33.4	8 x 5	219.1 x 141.3	30 x 30	762 x 762
3 x 3	88.9 x 88.9	8 x 4	219.1 x 114.3	30 x 12	762 x 323.9
3 x 2 1/2	88.9 x 73	8 x 3 1/2	219.1 x 101.6	32 x 32	813 x 813
3 x 2	88.9 x 60.3	10 x 10	273.1 x 273.1	32 x 14	813 x 355.6
3 x 1 1/2	88.9 x 48.3	10 x 8	273.1 x 219.1	34 x 34	864 x 864
3 1/2 x 3 1/2	101.6 x 101.6	10 x 5	273.1 x 141.3	34 x 16	864 x 406.4
4 x 4	114.3 x 114.3	10 x 4	273.1 x 114.3	36 x 36	914 x 914
4 x 3 1/2	114.3 x 101.6	12 x 12	323.9 x 323.9	36 x 30	914 x 762
4 x 3	114.3 x 88.9	12 x 10	323.9 x 273.1	36 x 16	914 x 406.4

## CONCENTRIC AND ECCENTRIC REDUCER

STANDARD: ASME/ANSI B16.9

GRADE:WPB

Nominal size		Nominal size		Nominal size	
inch	mm	inch	mm	inch	mm
3/4 x 1/2	26.7 x 21.3	2 1/2 x 1	73 x 33.4	8 x 4	219.1 x 114.3
1 x 3/4	33.4 x 26.7	3 x 2 1/2	88.9 x 73	10 x 8	273.1 x 219.1
1 x 1/2	33.4 x 21.3	3 x 2	88.9 x 60.3	10 x 5	273.1 x 141.3
1 1/4 x 1	42.2 x 33.4	3 x 1 1/2	88.9 x 48.3	12 x 10	323.9 x 273.1
1 1/4 x 3/4	42.2 x 26.7	3 1/2 x 3	101.6 x 88.9	12 x 6	323.9 x 168.3
1 1/4 x 1/2	42.2 x 21.3	3 1/2 x 1 1/2	101.6 x 48.3	14 x 12	355.6 x 323.9
1 1/2 x 1 1/4	48.3 x 42.2	4 x 3 1/2	114.3 x 101.6	14 x 6	355.6 x 168.3
1 1/2 x 1	48.3 x 33.4	4 x 2	114.3 x 60.3	16 x 14	406.4 x 355.6
1 1/2 x 3/4	48.3 x 26.7	5 x 4	141.3 x 114.3	16 x 6	406.4 x 168.3
1 1/2 x 1/2	48.3 x 21.3	5 x 2 1/2	141.3 x 73	18 x 16	457 x 406.4
2 x 1 1/2	60.3 x 48.3	6 x 5	168.3 x 141.3	18 x 8	457 x 219.1
2 x 1 1/4	60.3 x 42.2	6 x 3	168.3 x 88.9	20 x 18	508 x 457
2 1/2 X 2	73 X 60.3	8 x 6	219.1 x 168.3	20 x 12	508 x 323.9



Con Reducer



Ecc Reducer

## FLANGES

### WELDING NECK FLANGES

STANDARD: ASME/ANSI B16.9 CLASS 150—300

GRADE:WPB

NPS	OD	ID	Thk	unit wt	NPS	OD	ID	Thk	unit wt
(inch)	(mm)	(mm)	(mm)	(kgs)	(inch)	(mm)	(mm)	(mm)	(kgs)
1/2	89	21.3	11.5	0.5	16	597	406.4	37	60
3/4	99	26.9	13	0.7	18	635	457	40	71
1	108	33.7	14.5	1.1	20	698	508	43	88
1 1/4	117	42.4	16	1.5	24	813	610	48	119
1 1/2	127	48.3	17.5	1.8	26	869.9	660.4	50.8	136
2	152	60.3	19.5	2.7	28	927.1	711.2	52.4	143
2 1/2	178	73	22.5	4.4	30	984.2	762	54	163
3	190	88.9	24	5.2	32	1060.4	812.8	57.1	197
3 1/2	216	101.6	24	6.4	34	1111.2	863.6	58.7	211
4	229	114.3	24	7.5	36	1168.4	914.4	60.3	236
5	254	141.3	24	9.2	38	1238.2	965.2	60.3	270
6	279	168.3	25.5	11	40	1289	1016	63.5	310
8	343	219.1	29	18.3	42	1346.2	1066.6	66.7	340
10	406	273	30.5	25	44	1403.3	1117.4	66.7	395
12	483	323.9	32	39	46	1454.1	1168.4	68.3	470
14	533	355.6	35	51	48	1511.3	1219.2	69.8	563

### BLIND FLANGES

STANDARD: ASME/ANSI B16.9

GRADE:WPB

NPS	OD	Thickness	unit wt	NPS	OD	Thickness	unit wt
(inch)	(mm)	(mm)	(kgs)	(inch)	(mm)	(mm)	(kgs)
1/2	89	11.5	0.4	16	597	37	79
3/4	99	13	0.7	18	635	40	97
1	108	14.5	0.9	20	698	43	124
1 1/4	117	16	1.3	24	813	48	188
1 1/2	127	17.5	1.6	26	870	68.5	323
2	152	19.5	2.6	28	925	71.5	382
2 1/2	178	22.5	4.1	30	985	74.5	450
3	190	24	5	32	1060	81	560
3 1/2	216	24	6.4	34	1110	82.5	630
4	229	24	7.1	36	1170	90.5	765
5	254	24	9	38	1240	87.5	850
6	279	25.5	12	40	1290	90.5	955
8	343	29	21	42	1345	97	1075
10	406	30.5	30	44	1405	102	1200
12	483	32	45	46	1455	103	1380
14	533	35	59	48	1510	108	1590

## SLIP ON FLANGE

STANDARD: ASME/ANSI B16.9

GRADE:WPB

NPS (inch)	OD (mm)	ID (mm)	Thickness (mm)	unit wt (kgs)	NPS (inch)	OD (mm)	ID (mm)	Thickness (mm)	unit wt (kgs)
1/2	89	22.5	11.5	0.4	16	597	410.5	37	46
3/4	99	28	13	0.7	18	635	462	40	50
1	108	34.5	14	0.8	20	698	513	43	64
1 1/4	117	43.5	16	1.1	24	813	616	48	89
1 1/2	127	49.5	17.5	1.4	26	869.9	666.7	50.8	106
2	152	62	19.5	2.2	28	927.1	717.5	52.4	126
2 1/2	178	74.5	22.5	3.6	30	984.2	768.3	54	140
3	190	90.5	24	4.1	32	1060.4	819.1	57.1	168
3 1/2	216	103.5	24	5.2	34	1111.2	869.9	58.7	179
4	229	116	24	5.6	36	1168.4	920.7	60.3	205
5	254	144	24	6.3	38	1238.2	971.5	60.3	230
6	279	170.5	25.5	7.5	40	1289	1022.3	63.5	270
8	343	221.5	29	12.6	42	1346.2	1073.1	66.7	310
10	406	276.5	30.5	18.5	44	1403.3	1123.9	66.7	340
12	483	327	32	28	46	1454.1	1174.7	68.3	375
14	533	359	35	36	48	1511.3	1225.5	69.8	426

## THREADED FLANGE

STANDARD: ASME/ANSI B16.9

GRADE:WPB

NPS (inch)	OD (mm)	Thickness (mm)	unit wt (kgs)	NPS (inch)	OD (mm)	Thickness (mm)	unit wt (kgs)
1/2	89	11.5	0.4	5	254	24.0	7.0
3/4	99	13.0	0.7	6	279	25.5	8.4
1	108	14.5	0.9	8	343	29.0	13.0
1 1/4	117	16.0	1.2	10	406	30.5	17.8
1 1/2	127	17.5	1.5	12	483	32.0	29.5
2	152	19.5	2.3	14	833	35.0	39.0
2 1/2	178	22.5	3.7	16	597	37.0	47.0
3	190	24.0	4.2	18	635	40.0	54.0
3 1/2	216	24.0	5.3	20	696	43.0	68.0
4	229	24.0	5.9	24	813	48.0	93.0

## SOCKET WELDING FLANGES

STANDARD: ASME/ANSI B16.9

GRADE:WPB

### CLASS 150 PN20

NPS (inch)	OD (mm)	ID1 (mm)	ID2 (mm)	Thickness (mm)	unit wt (kgs)
1/2	89	22.5	16.0	11.5	0.4
3/4	99	28.0	21.0	13.0	0.7
1	108	34.5	26.5	14.5	0.9
1 1/4	117	43.5	35.0	16.0	1.2
1 1/2	127	49.5	41.0	17.5	1.5
2	152	62.0	52.5	19.5	2.3
2 1/2	178	74.5	62.5	22.5	3.7
3	190	80.5	78.0	24.0	4.2

### CLASS 300 PN50

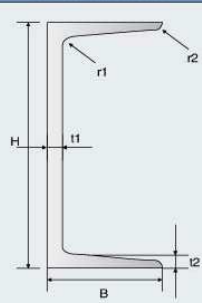
NPS (inch)	OD (mm)	ID1 (mm)	ID2 (mm)	Thickness (mm)	unit wt (kgs)
1/2	95	22.5	16.0	14.5	0.7
3/4	117	28.0	21.0	16.0	1.2
1	124	34.5	26.5	17.5	1.4
1 1/4	131	43.5	35.0	19.5	1.9
1 1/2	156	49.5	41.0	21.0	2.8
2	185	62.0	52.5	22.5	3.3
2 1/2	190	74.5	62.5	25.5	4.6
3	210	90.5	78.0	29.0	6.3

### CLASS 600 PN 1000

NPS (inch)	OD (mm)	ID1 (mm)	Thickness (mm)	unit wt (kgs)
1/2	95	22.5	14.5	0.8
3/4	117	28.0	16.0	1.4
1	124	34.5	17.5	1.6
1 1/4	133	43.5	21.0	2.1
1 1/2	156	49.5	22.5	3.1
2	165	62.0	25.5	3.7
2 1/2	190	74.5	29.0	5.4
3	210	90.5	32.0	7.3



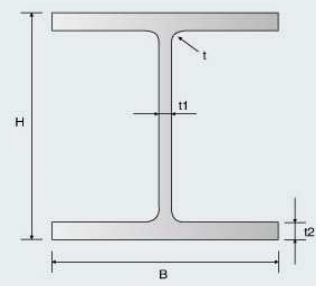
## STEEL CHANNELS

AVAILABLE STEEL GRADE	STEEL CHANNELS
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,	
DIMENSION IN BOLD IN BELOW TABLES FOR STEEL CHANNELS ARE RECOMMENDED	

CHANNEL DIMENSION (MM)			UNIT WEIGHT (KG/M)
H * B	t1	t2	
75*40	3.8	7	5.3
75*40	5	7	6.92
100 * 50	3.8	6	7.3
100 * 50	4.5	7.5	8.97
100 * 50	5	7.5	9.36
125 * 65	6	6.8	11.66
125 * 65	5.2	8	13.4
150 * 75	5.5	7.3	14.66
150 * 75	6	10	17.9
150 * 75	6.5	10	18.6



## H BEAM

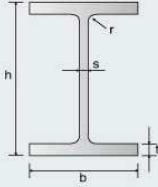
AVAILABLE STEEL GRADE	H BEAM
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,	
DIMENSION IN BOLD IN BELOW TABLES FOR H BEAM ARE RECOMMENDED	

ITEM	H*B (mm) NOMINAL SIZE	t1 (mm)	t2 (mm)
HW	100*100, 125*125, 150*150, 175*175, 200*200, 250*250, 300*300, 350*350, 400*400	6 - 45	8 - 35
HM	150*100, 200*150, 250*175, 300*200, 350*250, 400*300, 450*300, 500*300, 600*300,	6 - 14	9 - 23
HN	100*50, 125*60, 150*75, 175*90, 200*100, 250*125, 300*150, 350*175, 400*150, 400*200, 450*150, 450*200, 500*150, 500*200, 600*200, 700*300, 800*300, 900*300	5 - 18	7 - 28

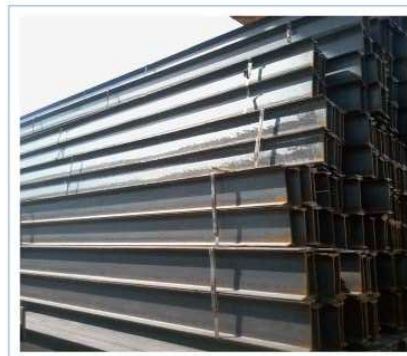
HW, HM, HN STAND FOR H BEAMS WITH WIDE FLANGE, MEDIUM FLANGE, NARROW FLANGE SEPARATELY.



## IPE/IPEAA

AVAILABLE STEEL GRADE	IPE/IPEAA
Q235B, Q345B A36, A572 Gr.50 S235JR, S355JR SS400,	
DIMENSION IN BOLD IN BELOW TABLES FOR IPE/IPEAA ARE RECOMMENDED	

NOMINAL SIZE	DIMENSION					UNIT WEIGHT (KG/M)
	<b>h</b>	<b>b</b>	<b>s</b>	<b>t</b>	<b>r</b>	
IPE AA-100	97.6	55	3.6	4.4	7	6.72
IPE-100	100	55	4.1	5.7	7	8.10
IPE AA-120	117	64	3.8	4.8	7	8.36
IPE-120	120	64	4.4	6.3	7	10.4
IPE AA-140	136.6	73	3.8	5.2	7	10.05
IPE-140	140	73	4.7	6.9	7	12.9
IPE AA-160	156.4	82	4	5.6	7	12.31
IPE-160	160	82	5.0	7.4	9	15.8
IPE AA-180	176.4	91	4.3	6.2	9	14.94
IPE-180	180	91	5.3	8.0	9	18.8
IPE AA-200	196.4	100	4.5	6.7	12	17.95
IPE-200	200	100	5.6	8.5	12	22.4



## COIL AND PLATE

### Galvanized Steel Coil

**SPECIFICATION:**

Thickness: 0.25–4.0mm; Width: 900–1250mm; Zinc

Coating: 80–275g/m<sup>2</sup>;

Internal Diameter: 508mm or 610mm

Coil Weight: 4–8MT

Quality: commercial and structural quality

Surface Treatment: zero spangle, regular spangle, minimum spangle, oiled & dry, chromated,

Standard: JIS G 3302, ASTM A 653M, EN 10327

Steel Grade: SGCC, DX51D+Z, S250GD, S280GD, S350GD

USAGE: widely used in building materials, light industrial, transportation and farming. Such as for making steel profile

for wall and roofing, T-bar, studs, fireproof door, air conditioning duct; enclosure of home appliance, kitchen appliance etc.



### Pre-painted Galvanized Steel Coil

**SPECIFICATION:**

Thickness: 0.23–1.2mm (BMT)

Width: 900–1250mm

Zinc Coating: 80–275g/m<sup>2</sup>

Color: according to RAL color fan( PE;PVDF coating)

Internal Diameter: 508mm or 610mm

Coil Weight: 4–8MT

Quality: commercial and structural quality

Standard: JIS G 3312, ASTM A755M, EN 10169

Steel Grade: CGCC, DX51D+Z, S250GD, S280GD, S350GD

USAGE: widely used in building materials, light industrial, transportation and farming. Such as for making steel profile

for wall and roofing, sandwich panel, corrugated sheet, T-bar, home appliance, kitchen appliance etc.



## Aluzinc Steel Coil

### SPECIFICATION:

Thickness: 0.25–1.5mm

Width: 900–1250mm

Al–zinc Coating: 50–150g/m<sup>2</sup>

Internal Diameter: 508mm or 610mm

Coil Weight: 4–8MT

Quality: commercial and structural quality

Surface Treatment: oiled & dry, chromated, anti–finger, non–skin pass/ skin pass

Standard: JIS G 3321, ASTM A792M, EN 10215

Steel Grade: SGLCC, DX51D, S250GD, S280GD, S350GD

USAGE: widely used in transportation, light industry, civil usage and farming. Such as in construction for making roofing tile, steel profiles for wall partition, T–bar, studs, fireproof door, air conditioning duct and home appliance, etc



## Pre-painted Aluzinc Steel Coil

### SPECIFICATION:

Thickness: 0.23–1.2mm (BMT)

Width: 900–1250mm

Al–zinc Coating: 50–150g/m<sup>2</sup>

Color: according to RAL color fan( PE;PVDF coating)

Internal Diameter: 508mm or 610mm

Coil Weight: 4–8MT

Color: according to RAL color fan

Quality: commercial and structural quality

Standard: JIS G 3322, ASTM A792, EN 10142

Steel Grade: CGLCC, DX51D, S250GD, S280GD, S350GD

USAGE: widely used in transportation, light industry, civil usage and farming. It is also the perfect building material in construction for making steel roofing, corrugate sheet, sandwich panel for wall or roofing, facade wall, shutters and home appliance.



## Hot Rolled Steel Plate

### SPECIFICATION:

Thickness: 6–200mm; Width:

1524–5000mm; Length: 6000–16000mm

Steel grade: SS400, SM490, A36, A572 GR50, S235/275/355JR, S690QL, A514, A516 GR60/70...

Thickness: 6–60mm; Width: 1800–3500mm;

Length: 6000–16000mm

SHIP BUILDING PLATE: Grade A, B, AH32/36,

D, DH32/36, E, EH 32/36



## Hot Rolled Steel Coil

### SPECIFICATION:

Thickness: 1.8mm–20mm, Width: 940mm–2010mm

Standard: Japanese industry standard, Germany industry standard, American standard, American Petroleum Institute standard

Steel grade:

SS400, SPHC, SPHT1/T2, SAE1006/1008, S235/275JR, API5L X60/65/70

USAGE: raw materials for producing cold rolling steel coils; raw materials in industrial, such as making pipe, container, ship, automobile, etc.



## Cold Rolled Steel Coil

### SPECIFICATION:

Thickness: 0.2–2.0mm; Width: 1000–1250mm;

Standard: JISG 3141–2005, EN10130/EN10139

Steel grade: SPCC, SPCC, SPCE, SPCE. DC01(St12), DC03 (St13), DC04(St14, St15)

Technical treatment of Cold Rolled Steel Coil: Bright, annealed, flattening, cold hardness and so on.

USAGE: widely used in construction, transportation and other industries, such as motorcycles, fitting apparatuses. Door–making, appliance, furniture, pipe, tank, refrigerators, washers, dryers; also materials for producing galvanized steel coils and pre–painted galvanized steel coils.

