

SPECIFICATIONS • Carbon Steel Pipe, Buttwelding Fittings, Flanges

Linepipe	Specification	ASTM A53/A53M	Buttwelding Fittings	Specification	ASTM A234M	
	Dimensions	ASME B36.10M		(Moderate and High Temperature Service)		
	Product	Welded and Seamless Steel Pipe for High and Low Temperature and Pressure		ASTM A420M	(Low Temperature Service)	
	Grades	A, B		ASME B16.9	Elbows, Reducing Elbows, Returns, Tees, Crosses, Reducers, Stub Ends, Caps	
	Specification	ASTM A106		Grade	WPL	
	Dimensions	ASME B36.10M				
	Product	Seamless Carbon Steel Pipe for High Temperature Service				
	Grades	A, B, C (Indicates tensile strength and yield point design)		Flanges	Specification	ASTM A105M
	Specification	ASTM A335/A335M			ASME B16.5	Weld Neck, Slip-on, Blind Flanges
	Dimensions	ASME B36.10M			Plain, Raised Face	
Product	Seamless Ferritic Alloy-Steel Pipe for High Temperature Service	Pipe Schedule				
Grades	Refer Standard for grades	150, 300, 400, 600, 900, 1500, 2500 (to 600mm only)				
Specification	ASTM A333/A333M	Grade	Carbon Steel			
Dimensions	ASME B36.10M					
Product	Seamless & ERW Carbon and Alloy Steel Pipe for Low Temperature Service					
Grades	Refer Standard for grades	AS 2129	AS 2129		"Table" flanges pressure – temperature ratings, materials and dimensions	
Specification	API 5L	Slip-on, Blind "Table" Flanges				
Structural Steel	Dimensions	ASME API 5L, B36.10	Application	Plain		
	Product	Seamless & ERW for conveying Water, Oil, Gas		To suit Pipe & Tube OD		
	Grades	B, X42, X52, X60, Refer API 5L specification for others		D, E, F, and H		
	Specification	AS 1163				
	Dimensions	AS 1163				
	Product	Structural Steel Hollow Sections				
	Grade	C350				

CARBON STEEL PIPE • Dimensions

Nominal size		Welded & Seamless Carbon Steel Pipe to ASME B36.10M										Structural Steel Hollow Sections to AS1163 Grade C350																														
DN	NPS	Schedule										Wall Thickness in mm																														
		10	20	30	40	Std	60	80	XS	100	120	140	160	XXS	4.8	5.5	6.0	6.4	7.1	8.2	9.3	9.5	12.7																			
		All dimensions are in mm																																								
6	1/8	1.24		1.45	1.73	1.73		2.41	2.41									2.41	2.41																							
8	1/4	1.65		1.85	2.24	2.24		3.02	3.02									3.02	3.02																							
10	3/8	1.65		1.85	2.31	2.31		3.20	3.20									3.20	3.20																							
15	1/2	2.11		2.41	2.77	2.77		3.73	3.73									3.73	3.73																							
20	3/4	2.11		2.41	2.87	2.87		3.91	3.91									3.91	3.91																							
25	1	2.77		2.90	3.38	3.38		4.55	4.55									4.55	4.55																							
32	1 1/4	2.77		2.97	3.56	3.56		4.85	4.85									4.85	4.85																							
40	1 1/2	2.77		3.18	3.68	3.68		5.08	5.08									5.08	5.08																							
50	2	2.77		3.18	3.91	3.91		5.54	5.54									5.54	5.54																							
65	2 1/2	3.05		4.78	5.16	5.16		7.01	7.01									7.01	7.01																							
80	3	3.05		4.78	5.49	5.49		7.62	7.62									7.62	7.62																							
90	3 1/2	3.05		4.78	5.74	5.74		8.08	8.08									8.08	8.08																							
100	4	3.05		4.78	6.02	6.02		8.56	8.56									8.56	8.56																							
125	5	3.40		7.11	7.11	7.11		9.53	9.53									9.53	9.53																							
150	6	3.40		7.11	7.11	7.11		10.97	10.97									10.97	10.97																							
200	8	3.76	6.35	7.04	8.18	8.18		12.70	12.70	10.31								12.70	12.70	15.09	18.26	18.26																				
250	10	4.19	6.35	7.80	9.27	9.27		15.09	15.09	12.70								15.09	15.09	18.26	20.62	20.62																				
300	12	4.57	6.35	8.38	10.31	9.53		17.48	17.48	14.27								17.48	17.48	21.44	25.40	25.40																				
350	14	6.35	7.92	9.53	11.13	9.53		19.05	19.05	15.09								19.05	19.05	23.83	27.79	27.79																				
400	16	6.35	7.92	9.53	12.70	9.53		21.44	21.44	16.66								21.44	21.44	26.19	30.96	30.96																				
450	18	6.35	7.92	11.13	14.27	9.53		23.83	23.83	19.05								23.83	23.83	29.36	34.93	34.93																				
500	20	6.35	9.53	12.70	15.09	9.53		26.19	26.19	20.62								26.19	26.19	32.54	38.10	38.10																				
550	22	6.35	9.53	12.70	17.48	9.53		28.58	28.58	22.23								28.58	28.58	34.93	41.28	41.28																				
600	24	6.35	9.53	14.27	17.48	9.53		30.96	30.96	24.61								30.96	30.96	38.89	46.02	46.02																				
650	26	7.92	12.70	17.48	17.48	9.53		35.71	35.71	30.96								35.71	35.71	44.45	50.01	50.01																				
700	28	7.92	12.70	15.88	15.88	9.53		40.49	40.49	36.53								40.49	40.49	48.24	54.99	54.99																				
750	30	7.92	12.70	15.88	15.88	9.53		45.24	45.24	40.93								45.24	45.24	53.98	61.97	61.97																				
800	32	7.92	12.70	15.88	17.48	9.53		50.01	50.01	46.02								50.01	50.01	59.54	68.54	68.54																				
850	34	7.92	12.70	15.88	17.48	9.53		54.99	54.99	50.01								54.99	54.99	64.54	74.63	74.63																				
900	36	7.92	12.70	15.88	19.05	9.53		59.54	59.54	55.01								59.54	59.54	70.63	81.74	81.74																				
950	38					9.53																																				
1000	40					9.53																																				
1050	42					9.53																																				
1100	44					9.53																																				
1150	46					9.53																																				
1200	48					9.53																																				

Note 1: For dimensional tolerances refer to ASME B36.10M
Equivalent sizes shown in API Specification 5L

CARBON STEEL PIPE • Weights

Nominal size		Welded & Seamless Carbon Steel Pipe to ASME B36.10M All weights are in kg/m											Structural Steel Hollow Sections to AS1163 All weights are in kg/m															
DN	NPS	OD mm	10	20	30	40	Std	60	80	XS	100	120	140	160	XXS	Wall Thickness in mm												
																4.8	5.5	6.0	6.4	7.1	7.1	8.2	9.3	9.5	12.7			
6	1/8	10.3	0.28		0.32	0.37	0.37		0.47	0.47																		
8	1/4	13.7	0.49		0.54	0.63	0.63		0.80	0.80																		
10	3/8	17.1	0.63		0.70	0.84	0.84		1.10	1.10				1.95	2.55													
15	1/2	21.3	1.00		1.12	1.27	1.27		1.62	1.62				2.90	3.64													
20	3/4	26.7	1.28		1.44	1.69	1.69		2.20	2.20				4.24	5.45													
25	1	33.4	2.09		2.18	2.50	2.50		3.24	3.24				5.61	7.77													
32	1 1/4	42.2	2.70		2.87	3.39	3.39		4.47	4.47				7.25	9.56													
40	1 1/2	48.3	3.11		3.53	4.05	4.05		5.41	5.41				11.11	13.44													
50	2	60.3	3.93		4.48	5.44	5.44		7.48	7.48				14.92	20.39													
65	2 1/2	73.0	5.26		8.04	8.63	8.63		11.41	11.41				21.35	27.67													
80	3	88.9	6.45		9.92	11.29	11.29		15.27	15.27						10.0	11.3											
90	3 1/2	101.6	7.40		11.41	13.57	13.57		18.63	18.63																		
100	4	114.3	8.36		12.91	16.07	16.07		22.32	22.32		28.32				13.0												
125	5	141.3	11.57			21.77	21.77		30.97	30.97		40.28																
150	6	168.3	13.84			28.26	28.26		42.56	42.56		54.20																
200	8	219.1	19.96		36.81	42.55	42.55		64.64	64.64		90.44																
250	10	273.0	27.78		51.03	60.31	60.31		96.01	81.55		133.06																
300	12	323.8	36.00		65.20	79.73	73.88		132.08	186.97		186.97																
350	14	355.6	54.69		81.33	94.55	81.33		158.10	107.39		224.65																
400	16	406.4	62.64		93.27	123.30	93.27		203.53	123.30		286.64																
450	18	457	70.57		122.38	155.80	105.16		254.55	139.15		363.56																
500	20	508	78.55		155.12	183.42	117.15		311.17	155.12		441.49																
550	22	559	86.54		171.09	209.64	129.13		373.83	171.09		527.02																
600	24	610	94.53		209.64	255.41	141.12		442.08	187.06		640.03																
650	26	660	127.36		202.72		202.72			202.72																		
700	28	711	137.32		218.69		164.85			218.69																		
750	30	762	147.28		234.67		176.84			234.67																		
800	32	813	157.24		250.64		188.82			250.64																		
850	34	864	167.20		266.61		200.31			266.61																		
900	36	914	176.96		282.27		212.56			282.27																		
950	38	965					224.54			298.24																		
1000	40	1016					236.53			314.22																		
1050	42	1067					248.52			330.19																		
1100	44	1118					260.50			346.16																		
1150	46	1168					272.25			351.82																		
1200	48	1219					284.24			377.79																		

Note 1: All weights are theoretical and approximate
Note 2: Formula for circular steel pipe kilograms/metre M = (D-t) t x 0.02466
 Equivalent sizes shown in API Specification 5L