

ASME B36.10M-2015

[Revision of ASME B36.10M-2004 (R2010)]

Welded and Seamless Wrought Steel Pipe

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AN AMERICAN NATIONAL STANDARD



**The American Society of
Mechanical Engineer**

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**The American Society of
Mechanical Engineers**

Two Park Avenue • New York, NY • 10016 USA

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FOREWORD

In March 1927, the American Standards Association authorized the organization of a Sectional Committee on Standardization of Dimensions and Material of Wrought Steel and Wrought Iron Pipe and Tubing for the purpose of unifying the standards of these commodities in force in this country. The American Society for Testing and Materials and The American Society of Mechanical Engineers were designated as sponsors, and the first meeting of the Sectional Committee was held in Pittsburgh, Pennsylvania, on May 18, 1928.

The dimensions of commercial pipe in general use in the United States at the time conformed rather generally to those recommended by the ASME Committee on Standard Pipe and Pipe Threads published in 1886 (ASME Transactions, Vol. VIII, p. 29). On these standards an enormous industry has been built and the satisfactory use of this product proves the soundness of the original design and specification.

Increasingly severe service demands at the time of the Committee's organization had been met by using the nearest available pipe or tubing for heavier sections such as casing, mechanical tubing, etc., with resulting uneconomical multiplicity of wall thicknesses.

Subsequently, the Committee, with the cooperation of the industry, made a survey of existing practice as the logical starting point for the development of an American Standard. From this survey, a table was designed to provide a selection of wall thicknesses of pipe to cover the power piping requirements of industry where strength to resist internal pressure governs selection and was later expanded to include pipe diameters and thicknesses used in other industries.

The original intent of the Committee was to establish a system of Schedule Numbers for pipe size/wall thickness combinations which would have an approximately uniform relationship equal to 1000 times the **P/S** expression contained in the modified Barlow formula for pipe wall thickness as defined in the Appendix* to this standard. The resulting Numbers departed so far from existing wall thicknesses in common use that the original intent could not be accomplished. The Schedule Numbers were then adopted strictly as a convenient designation system for use in ordering.

In all cases, the designer must base his selection on the rules and allowable stresses set by the code which governs his particular construction. The table is dimensionally complete for all sizes and wall thicknesses within its scope, but some of the larger, heavier wall sections are beyond the capability of seamless mill production and must be obtained from forged and bored billets or other sources.

The first issue of this standard was given with the designation American Standard "tentative" by the American Standards Association in November 1935. Subsequent slight revisions to Table 1 and the footnotes of the dimensional tables were approved and the ASA changed the designation to American Standard; the date of ASA approval was April 28, 1939.

Further revisions were made by the Sectional Committee. The list of specifications in Table 1 was revised where necessary and slight revisions in wall thicknesses of some of the large sizes of the heavy schedules were made where **P/S** values were out of line.

It was the hope in 1939 that the designation of pipe used commercially by all industry as Standard weight, Extra-Strong, and Double Extra-Strong would gradually be replaced by Schedule Number designation. However, owing to customs of over 50 years' standing, demand and production of pipe to these traditional dimensions is undiminished. Consequently, in response to a demand from users, accepted practice for dimensions and weights of commercial wrought steel and welded wrought iron pipe were added. These changes were designated an American Standard on February 23, 1950.

* This Appendix, which appeared in the 1975 edition, was later removed.

Subcommittee No. 1 was reorganized in 1957. In addition to necessary editorial changes, a simplified format was selected for the tables of weights and dimensions so as to include and identify the sizes and weights of API Standards 5L and 5LX. These changes to the standard were approved and it was designated an American Standard on December 21, 1959.

The standard was revised in 1969. A uniform method to calculate the plain end weight of steel pipe was included, and minor adjustments were made in the tabulated weights of steel pipe in Table 2 to conform to this new method. Additional sizes and thicknesses of steel pipe that had come into common use were also added to Table 2. Inasmuch as API Standard 5L no longer included wrought iron pipe, reference to this API Standard was deleted from Table 3. These changes to the standard were approved and it was designated an American National Standard on February 3, 1970.

Further revisions were made to the standard in 1975. Additional sizes and thicknesses of steel pipe that had been added to API specifications were added to Table 2. Table 3, Dimensions and Weights of Welded Wrought Iron Pipe, was deleted in its entirety, since wrought iron pipe is no longer produced. These changes in the standard were approved and it was designated an American National Standard on June 5, 1975.

The standard was revised in 1978 to include SI metric dimensions. The outside diameter and wall thicknesses were converted to millimeters by multiplying the inch dimensions by 25.4. Outside diameters larger than 16 in. were rounded to the nearest millimeter, and outside diameters 16 in. and smaller were rounded to the nearest 0.1 mm. Wall thicknesses were rounded to the nearest 0.01 mm. These converted and rounded SI metric dimensions were added to Table 2. A formula to calculate the SI metric plain end mass, in kilograms per meter, using SI metric diameters and thicknesses was added to section 5. The SI metric plain end mass was calculated and was added to Table 2. These changes in the standard were approved and it was designated an American National Standard on July 18, 1979.

Further revisions were made in 1984. The ANSI designations, which are no longer in use, were deleted from Table 1, and the list of specifications was revised to agree with current ASTM and API specifications. Additional sizes and thicknesses which had been added to API specifications were added to Table 2. That edition was approved as an American National Standard on August 19, 1985.

The next edition included additional wall thicknesses and was approved by the American National Standards Institute on August 24, 1995.

The 1996 edition contained revisions to Table 2, adding pipe sizes, changing some plain end weights and masses, identifying metric pipe by the dimensionless designator DN, and eliminating the API Specification column. The 1996 edition was approved as an American National Standard on September 23, 1996.

The 2000 edition contained revisions to Table 2 to include the revised density for steel incorporated into section 5 previously. Table 1 was deleted and other editorial changes to Sections 1, 2, 3, 5, 8, and 9 were made. The 2000 edition was approved as an American National Standard on December 1, 2000.

The 2004 edition contained revisions to section 5 and Table 1. It corrected the equation for nominal plain end weight. It added the missing DN schedule numbers in Table 1. This edition was approved as an American National Standard on June 23, 2004.

The 2015 edition contains revisions to Table 1 by removing Note (3) and its references. The 2015 edition was approved as an American National Standard on June 16, 2015.

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Metal and Metal Alloy

Wrought Mill Product Nominal Sizes

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WELDED AND SEAMLESS WROUGHT STEEL PIPE

1 SCOPE

This Standard covers the standardization of dimensions of welded and seamless wrought steel pipe for high or low temperatures and pressures.

The word *pipe* is used, as distinguished from *tube*, to apply to tubular products of dimensions commonly used for pipeline and piping systems. Pipe NPS 12 (DN 300) and smaller have outside diameters numerically larger than their corresponding sizes. In contrast, the outside diameters of tubes are numerically identical to the size number for all sizes.

2 SIZE

The size of all pipe is identified by the nominal pipe size.

The manufacture of pipe NPS ½ (DN 6) to NPS 12 (DN 300), inclusive, is based on a standardized outside diameter (O.D.). This O.D. was originally selected so that pipe with a standard O.D. and having a wall thickness that was typical of the period would have an inside diameter (I.D.) approximately equal to the nominal size. Although there is no such relation between the existing standard thickness — O.D. and nominal size — these nominal sizes and standard O.D.s continue in use as “standard.”

The manufacture of pipe NPS 14 (DN 350) and larger proceeds on the basis of an O.D. corresponding to the nominal size.

3 MATERIALS

The dimensional standards for pipe described here are for products covered in ASTM specifications.

4 WALL THICKNESS

The nominal wall thicknesses are given in Table 1.

5 WEIGHTS

The nominal weights of steel pipe are calculated values and are tabulated in Table 1.

The nominal plain end weight, in pounds per foot, is calculated using the following formula:

$$W_{pe} = 10.69(D - t)t$$

where

D = outside diameter to the nearest 0.001 in. (the symbol D is to be used for O.D. only in mathematical equations or formulas)

t = specified wall thickness, rounded to the nearest 0.001 in.

W_{pe} = nominal plain end mass, rounded to the nearest 0.01 lb/ft

The nominal plain end mass, in kilograms per meter, is calculated using the following formula:

$$W_{pe} = 0.0246615(D - t)t$$

where

D = outside diameter to the nearest 0.1 mm for outside diameters that are 16 in. (406.4 mm) and smaller and to the nearest 1.0 mm for outside diameters larger than 16 in. (406.4 mm) (the symbol D is to be used for O.D. only in mathematical equations or formulas)

t = specified wall thickness, rounded to the nearest 0.01 mm nominal plain end mass, rounded to the nearest 0.01 kg/m

W_{pe} =

6 PERMISSIBLE VARIATIONS

Variations in dimensions differ depending upon the method of manufacture employed in making the pipe to the various specifications available. Permissible variations for dimensions are indicated in each specification.

7 PIPE THREADS

Unless otherwise specified, the threads of threaded pipe shall conform to ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch).

Schedules 5 and 10 wall thicknesses do not permit threading in accordance with ANSI/ASME B1.20.1.

8 WALL THICKNESS DESIGNATIONS

The wall thickness designations Standard, Extra-Strong, and Double Extra-Strong have been commercially used designations for many years. As explained in the Foreword, the Schedule Numbers were subsequently added as a convenient designation for use

in ordering pipe. Standard and Schedule 40 are identical for up to NPS 10 (DN 250), inclusive. All larger sizes of Standard have $\frac{3}{8}$ in. (9.53 mm) wall thicknesses. Extra-Strong and Schedule 80 are identical for up to NPS 8 (DN 200), inclusive. All larger sizes of Extra-Strong have $\frac{1}{2}$ in. (12.70 mm) wall thicknesses. Pipe of sizes and wall thicknesses other than those of Standard, Extra-Strong, and Double Extra-Strong, and Schedule Number were adopted from API Specification 5L. It was not considered practical to establish Schedule Numbers or new designations for them.

9 WALL THICKNESS SELECTION

When the selection of wall thickness depends primarily upon capacity to resist internal pressure under given conditions, the designer shall compute the exact value of wall thickness suitable for conditions for which the pipe is required, as prescribed in detail in the ASME Boiler and Pressure Vessel Code, ASME B31 Code for Pressure Piping, or other similar codes, whichever governs the construction. A thickness shall be selected from Table 1 to suit the value computed to fulfill the conditions for which the pipe is desired.

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
		0.049		...				1.24	
$\frac{1}{8}$	0.405	0.057	0.19	...	10	6(3)	10.3	1.45	0.28
$\frac{1}{8}$	0.405	0.068	0.21	STD	30	6(3)	10.3	1.73	0.32
$\frac{1}{8}$	0.405	0.095	0.24	XS	40	6(3)	10.3	2.41	0.37
$\frac{1}{8}$	0.405		0.31	...	80	6(3)	10.3		0.47
		0.065		...				1.65	
$\frac{1}{4}$	0.540	0.073	0.33	...	10	8(3)	13.7	1.85	0.49
$\frac{1}{4}$	0.540	0.088	0.36	STD	30	8(3)	13.7	2.24	0.54
$\frac{1}{4}$	0.540	0.119	0.43	XS	40	8(3)	13.7	3.02	0.63
$\frac{1}{4}$	0.540	0.065	0.54	...	80	8(3)	13.7	1.65	0.80
		0.073		...				1.85	
$\frac{3}{8}$	0.675	0.073	0.42	...	10	10	17.1	1.85	0.63
$\frac{3}{8}$	0.675	0.091	0.47	STD	30	10	17.1	2.31	0.70
$\frac{3}{8}$	0.675	0.126	0.57	XS	40	10	17.1	3.20	0.84
$\frac{3}{8}$	0.675	0.065	0.74	...	80	10	17.1	1.65	1.10
		0.083		...				2.11	
$\frac{1}{2}$	0.840	0.083	0.54	...	5	15	21.3	2.11	0.80
$\frac{1}{2}$	0.840	0.095	0.67	...	10	15	21.3	2.41	1.00
$\frac{1}{2}$	0.840	0.109	0.76	STD	30	15	21.3	2.77	1.12
$\frac{1}{2}$	0.840	0.147	0.85	XS	40	15	21.3	3.73	1.27
		0.188		...				4.78	
$\frac{1}{2}$	0.840	0.188	1.09	...	80	15	21.3	4.78	1.62
$\frac{1}{2}$	0.840	0.294	1.31	XXS	160	15	21.3	7.47	1.95
$\frac{1}{2}$	0.840		1.72	...	.	15	21.3		2.55
		0.065		...				1.65	
$\frac{3}{4}$	1.050	0.083	0.69	...	5	20	26.7	2.11	1.03
$\frac{3}{4}$	1.050	0.095	0.86	...	10	20	26.7	2.41	1.28
$\frac{3}{4}$	1.050	0.113	0.97	STD	30	20	26.7	2.87	1.44
$\frac{3}{4}$	1.050	0.154	1.13	XS	40	20	26.7	3.91	1.69
		0.219		...				5.56	
$\frac{3}{4}$	1.050	0.219	1.48	...	80	20	26.7	5.56	2.20
$\frac{3}{4}$	1.050	0.308	1.95	XXS	160	20	26.7	7.82	2.90
$\frac{3}{4}$	1.050		2.44	...	.	20	26.7		3.64
		0.065		...				1.65	
$\frac{3}{4}$	1.315	0.109	0.87	...	5	25	33.4	2.77	1.29
		0.114		...				2.90	
1	1.315	0.114	1.41	...	10	25	33.4	2.90	2.09
1	1.315	0.133	1.46	STD	30	25	33.4	3.38	2.18
1	1.315	0.179	1.68	XS	40	25	33.4	4.55	2.50
		0.250		...				6.35	
1	1.315	0.250	2.17	...	80	25	33.4	6.35	3.24
1	1.315	0.358	2.85	XXS	160	25	33.4	9.09	4.24
1	1.315		3.66	...	.	25	33.4		5.45
		0.065		...				1.65	
1	1.660	0.109	1.11	...	5	32	42.2	2.77	1.65
		0.117		...				2.97	
$1\frac{1}{4}$	1.660	0.117	1.81	...	10	32	42.2	2.97	2.69
$1\frac{1}{4}$	1.660	0.140	1.93	STD	30	32	42.2	3.56	2.87
$1\frac{1}{4}$	1.660	0.191	2.27	XS	40	32	42.2	4.85	3.39
		0.250		...				6.35	
$1\frac{1}{4}$	1.660	0.250	3.00	...	80	32	42.2	6.35	4.47
$1\frac{1}{4}$	1.660	0.382	3.77	XXS	160	32	42.2	9.70	5.61
$1\frac{1}{4}$	1.660		5.22	...	.	32	42.2		7.77
		0.065		...				1.65	
$1\frac{1}{4}$	1.900	0.109	1.28	...	5	40	48.3	2.77	1.90
$1\frac{1}{4}$	1.900	0.125	2.09	...	10	40	48.3	3.18	3.11
		0.145		...				3.68	
$1\frac{1}{2}$	1.900	0.145	2.37	STD	30	40	48.3	3.68	3.53
$1\frac{1}{2}$	1.900	0.200	2.72	XS	40	40	48.3	5.08	4.05
		0.281		...				7.14	
$1\frac{1}{2}$	1.900	0.281	3.63	...	80	40	48.3	7.14	5.41
$1\frac{1}{2}$	1.900	0.400	4.86	XXS	160	40	48.3	10.15	7.25
$1\frac{1}{2}$	1.900		6.41	...	.	40	48.3		9.55
$1\frac{1}{2}$...					
$1\frac{1}{2}$...					

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
2		0.065		...				1.65	
2	2.375	0.083	1.61	...	5	50	60.3	2.11	2.39
2	2.375	0.109	2.03	...	...	50	60.3	2.77	3.03
2	2.375	0.125	2.64	...	10	50	60.3	3.18	3.93
2	2.375		3.01	...	30	50	60.3		4.48
2		0.141		...				3.58	
2	2.375	0.154	3.37	STD	...	50	60.3	3.91	5.01
2	2.375	0.172	3.66	...	40	50	60.3	4.37	5.44
2	2.375	0.188	4.05	...	...	50	60.3	4.78	6.03
2	2.375	0.218	4.40	XS	...	50	60.3	5.54	6.54
2	2.375	0.250	5.03	...	80	50	60.3	6.35	7.48
2	2.375	0.281	5.68	...	...	50	60.3	7.14	8.45
2	2.375	0.344	6.29	...	...	50	60.3	8.74	9.36
2	2.375	0.436	7.47	XXS	160	50	60.3	11.07	11.11
1	2.375		9.04	...	...	50	60.3		13.44
		0.083		...	...			2.11	
2 1/2	2.875	0.109	2.48	...	5	65	73.0	2.77	3.69
2 1/2	2.875	0.120	3.22	...	...	65	73.0	3.05	4.80
2 1/2	2.875	0.125	3.53	...	10	65	73.0	3.18	5.26
2 1/2	2.875	0.141	3.67	...	...	65	73.0	3.58	5.48
2 1/2	2.875	0.156	4.12	...	...	65	73.0	3.96	6.13
2 1/2	2.875	0.172	4.53	...	...	65	73.0	4.37	6.74
2 1/2	2.875	0.188	4.97	...	...	65	73.0	4.78	7.40
2 1/2	2.875	0.203	5.40	STD	30	65	73.0	5.16	8.04
2 1/2	2.875	0.216	5.80	...	40	65	73.0	5.49	8.63
2 1/2	2.875	0.250	6.14	...	...	65	73.0	6.35	9.14
2 1/2	2.875	0.276	7.02	XS	...	65	73.0	7.01	10.44
2 1/2	2.875	0.375	7.67	...	80	65	73.0	9.53	11.41
2 1/2	2.875	0.552	10.02	XXS	160	65	73.0	14.02	14.92
2 1/2	2.875	0.083	13.71	...	...	65	73.0	2.11	20.39
2 1/2	3.500	0.109	3.03	...	5	80	88.9	2.77	4.52
	3.500	0.120	3.95	...	...	80	88.9	3.05	5.88
3	3.500	0.125	4.34	...	10	80	88.9	3.18	6.46
3	3.500	0.141	4.51	...	...	80	88.9	3.58	6.72
3	3.500	0.156	5.06	...	...	80	88.9	3.96	7.53
3	3.500	0.172	5.58	...	...	80	88.9	4.37	8.30
3	3.500	0.188	6.12	...	...	80	88.9	4.78	9.11
3	3.500	0.216	6.66	STD	30	80	88.9	5.49	9.92
3	3.500		7.58	...	40	80	88.9		11.29
3				...	...		
3	3.500	0.250	8.69	...	...	80	88.9	6.35	12.93
3	3.500	0.281	9.67	...	...	80	88.9	7.14	14.40
3	3.500	0.300	10.26	XS	80	80	88.9	7.62	15.27
3	3.500	0.438	14.34	...	160	80	88.9	11.13	21.35
3	3.500	0.600	18.60	XXS	...	80	88.9	15.24	27.68
3 1/2	4.000	0.083	3.48	...	5	90	101.6	2.11	5.18
3 1/2	4.000	0.109	4.53	...	...	90	101.6	2.77	6.75
3 1/2	4.000	0.120	4.98	...	10	90	101.6	3.05	7.41
3 1/2	4.000	0.125	5.18	...	...	90	101.6	3.18	7.72
3 1/2	4.000	0.141	5.82	...	...	90	101.6	3.58	8.65
3 1/2	4.000	0.156	6.41	...	...	90	101.6	3.96	9.54
3 1/2	4.000	0.172	7.04	...	...	90	101.6	4.37	10.48
3 1/2	4.000	0.188	7.66	...	30	90	101.6	4.78	11.41

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
1		0.226		STD				5.74	
3/2	4.000	0.250	9.12	...	40	90	101.6	6.35	13.57
3/2	4.000	0.281	10.02	...	...	90	101.6	7.14	14.92
3/2	4.000	0.318	11.17	XS	...	90	101.6	8.08	16.63
3/2	4.000		12.52	...	80	90	101.6		18.64
		0.083		...				2.11	
4	4.500	0.109	3.92	...	5	100	114.3	2.77	5.84
4	4.500	0.120	5.12	...	...	100	114.3	3.05	7.62
4	4.500	0.125	5.62	...	10	100	114.3	3.18	8.37
4	4.500	0.141	5.85	...	...	100	114.3	3.58	8.71
4	4.500	0.156	6.57	...	...	100	114.3	3.96	9.78
4	4.500	0.172	7.24	...	...	100	114.3	4.37	10.78
4	4.500	0.188	7.96	...	...	100	114.3	4.78	11.85
4	4.500	0.203	8.67	...	30	100	114.3	5.16	12.91
4	4.500	0.219	9.32	...	.	100	114.3	5.56	13.89
4	4.500	0.237	10.02	STD	...	100	114.3	6.02	14.91
4	4.500	0.250	10.80	...	40	100	114.3	6.35	16.08
4	4.500	0.281	11.36	...	.	100	114.3	7.14	16.91
4	4.500	0.312	12.67	...	...	100	114.3	7.92	18.87
4	4.500	0.337	13.97	XS	...	100	114.3	8.56	20.78
4	4.500	0.438	15.00	...	80	100	114.3	11.13	22.32
4	4.500	0.531	19.02	...	120	100	114.3	13.49	28.32
4	4.500	0.674	22.53	XXS	160	100	114.3	17.12	33.54
4	4.500	0.083	27.57	...	.	100	114.3	2.11	41.03
5	5.563	0.109	4.86	...	...	125	141.3	2.77	7.24
5	5.563	0.125	6.36	...	5	125	141.3	3.18	9.46
5	5.563	0.134	7.27	...	.	125	141.3	3.40	10.83
5	5.563	0.156	7.78	...	10	125	141.3	3.96	11.56
5	5.563	0.188	9.02	...	...	125	141.3	4.78	13.41
5	5.563	0.219	10.80	...	.	125	141.3	5.56	16.09
5	5.563	0.258	12.51	STD	...	125	141.3	6.55	18.61
5	5.563		14.63	...	40	125	141.3		21.77
							
5	5.563	0.281	15.87	...	...	125	141.3	7.14	23.62
5	5.563	0.312	17.51	...	...	125	141.3	7.92	26.05
5	5.563	0.344	19.19	...	...	125	141.3	8.74	28.57
5	5.563	0.375	20.80	XS	80	125	141.3	9.53	30.97
5	5.563	0.500	27.06	...	120	125	141.3	12.70	40.28
5	5.563	0.625	32.99	...	160	125	141.3	15.88	49.12
5	5.563	0.750	38.59	XXS	...	125	141.3	19.05	57.43
6	6.625	0.083	5.80	...	...	150	168.3	2.11	8.65
6	6.625	0.109	7.59	...	5	150	168.3	2.77	11.31
6	6.625	0.125	8.69	...	...	150	168.3	3.18	12.95
6	6.625	0.134	9.30	...	10	150	168.3	3.40	13.83
6	6.625	0.141	9.77	...	.	150	168.3	3.58	14.54
6	6.625	0.156	10.79	...	...	150	168.3	3.96	16.05
6	6.625	0.172	11.87	...	...	150	168.3	4.37	17.67
6	6.625	0.188	12.94	...	...	150	168.3	4.78	19.28
6	6.625	0.203	13.94	...	...	150	168.3	5.16	20.76
6	6.625	0.219	15.00	...	...	150	168.3	5.56	22.31
6	6.625	0.250	17.04	...	...	150	168.3	6.35	25.36
6	6.625	0.280	18.99	STD	40	150	168.3	7.11	28.26

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
6		0.312		...				7.92	
6	6.625	0.344	21.06	...	...	150	168.3	8.74	31.33
6	6.625	0.375	23.10	...	...	150	168.3	9.53	34.39
6	6.625	0.432	25.05	XS	...	150	168.3	10.97	37.31
6	6.625		28.60	...	8 0	150	168.3		42.56
6		0.500		...				12.70	
6	6.625	0.562	32.74	...	...	150	168.3	14.27	48.73
6	6.625	0.625	36.43	...	120	150	168.3	15.88	54.21
6	6.625		40.09	...	...	150	168.3		59.69
6		0.719		...				18.26	
6	6.625	0.750	45.39	...	1 6 0	150	168.3	19.05	67.57
6	6.625	0.864	47.10	XXS	...	150	168.3	21.95	70.12
6	6.625	0.875	53.21	...	...	150	168.3	22.23	79.22
8	6.625	0.109	53.78	...	...	150	168.3		80.08
8	8.625	0.125	9.92	...	5	200	219.1	3.18	14.78
8	8.625	0.148	11.36	...		200	219.1	3.76	16.93
8	8.625	0.156	13.41	...	10	200	219.1	3.96	19.97
8	8.625		14.12	...		200	219.1		21.01
8	8.625	0.188		...				4.78	
8	8.625	0.203	16.96	...		200	219.1	5.16	25.26
8	8.625	0.219	18.28	...		200	219.1	5.56	27.22
8	8.625	0.250	19.68	...		200	219.1	6.35	29.28
8	8.625		22.38	...	20	200	219.1		33.32
8	8.625	0.277		...				7.04	
8	8.625	0.312	24.72	...	30	200	219.1	7.92	36.82
8	8.625	0.322	27.73	STD		200	219.1	8.18	41.25
8	8.625	0.344	28.58	...	40	200	219.1	8.74	42.55
8	8.625		30.45	...		200	219.1		45.34
8	8.625	0.375		...				9.53	
8	8.625	0.406	33.07	...		200	219.1	10.31	49.25
8	8.625	0.438	35.67	...	60	200	219.1	11.13	53.09
8	8.625	0.500	38.33	XS		200	219.1	12.70	57.08
8	8.625		43.43	...	80	200	219.1		64.64
8	8.625	0.562		...				14.27	
8	8.625	0.594	48.44	...		200	219.1	15.09	72.08
8	8.625	0.625	51.00	...	100	200	219.1	15.88	75.92
8	8.625	0.719	53.45	...		200	219.1	18.26	79.59
8	8.625		60.77	...	120	200	219.1		90.44
8	8.625	0.750		...				19.05	
8	8.625	0.812	63.14	...		200	219.1	20.62	93.98
8	8.625	0.875	67.82	XXS	140	200	219.1	22.23	100.93
8	8.625	0.906	72.49	...		200	219.1	23.01	107.93
8	8.625		74.76	...	160	200	219.1		111.27
8	8.625	1.000		...				25.40	
10		0.134		...				3.40	
10	10.750	0.156	15.21	...	5	250	273.0	3.96	22.61
10	10.750	0.165	17.67	...		250	273.0	4.19	26.27
10	10.750	0.188	18.67	...	10	250	273.0	4.78	27.78
10	10.750		21.23	...				5.16	
10	10.750	0.203		...		250	273.0		31.62
10	10.750	0.219	22.89	...		250	273.0	5.56	34.08
10	10.750	0.250	24.65	...		250	273.0	6.35	36.67
10	10.750	0.279	28.06	...	20	250	273.0	7.09	41.76
10	10.750		31.23	...				7.80	
10	10.750	0.307		...		250	273.0		46.49
10	10.750	0.344	34.27	...	30	250	273.0	8.74	51.01
10	10.750	0.365	38.27	STD		250	273.0	9.27	56.96
10	10.750	0.438	40.52	...	40	250	273.0	11.13	60.29
10	10.750		48.28	...					71.88

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
10	10.750	0.500		XS				12.70	
10	10.750	0.562	54.79	...	60	250	273.0	14.27	81.53
10	10.750	0.594	61.21	...	...	250	273.0	15.09	91.05
10	10.750	0.625	64.49	...	80	250	273.0	15.88	95.98
			67.65	...	...	250	273.0		100.69
10	10.750	0.719		...				18.26	
10	10.750	0.812	77.10	...	100	250	273.0	20.62	114.71
10	10.750	0.844	86.26	...	...	250	273.0	21.44	128.34
10	10.750	0.875	89.38	...	120	250	273.0	22.23	133.01
10	10.750	0.938	92.37	...	...	250	273.0	23.83	137.48
10	10.750	1.000	98.39	XXS	...	250	273.0	25.40	146.43
10	10.750	1.125	104.23	...	140	250	273.0	28.58	155.10
10	10.750	1.250	115.75	...	160	250	273.0	31.75	172.27
			126.94	...	...	250	273.0		188.90
12	12.750	0.156		...	5	300	323.8	3.96	
12	12.750	0.172	21.00	...	...	300	323.8	4.37	31.24
12	12.750	0.180	23.13	...	...	300	323.8	4.57	34.43
12	12.750	0.188	24.19	...	10	300	323.8	4.78	35.98
12	12.750	0.203	25.25	...	...	300	323.8	5.16	37.61
12	12.750	0.219	27.23	...	...	300	323.8	5.56	40.55
12	12.750	0.250	29.34	...	...	300	323.8	6.35	43.64
12	12.750	0.281	33.41	...	20	300	323.8	7.14	49.71
12	12.750	0.312	37.46	...	...	300	323.8	7.92	55.76
12	12.750	0.330	41.48	...	...	300	323.8	8.38	61.70
12	12.750	0.344	43.81	...	30	300	323.8	8.74	65.19
12	12.750	0.375	45.62	STD	...	300	323.8	9.53	67.91
12	12.750	0.406	49.61	...	...	300	323.8	10.31	73.86
12	12.750	0.438	53.57	...	40	300	323.8	11.13	79.71
12	12.750	0.500	57.65	XS	...	300	323.8	12.70	85.82
12	12.750	0.562	65.48	...	...	300	323.8	14.27	97.44
12	12.750	0.625	73.22	...	60	300	323.8	15.88	108.93
12	12.750	0.688	81.01	...	...	300	323.8	17.48	120.59
12	12.750	0.750	88.71	...	80	300	323.8	19.05	132.05
12	12.750	0.812	96.21	...	...	300	323.8	20.62	143.17
12	12.750	0.844	103.63	...	...	300	323.8	21.44	154.17
12	12.750	0.875	107.42	...	100	300	323.8	22.23	159.87
12	12.750	0.938	111.08	...	...	300	323.8	23.83	165.33
12	12.750	1.000	118.44	XXS	...	300	323.8	25.40	176.29
12	12.750	1.062	125.61	...	120	300	323.8	26.97	186.92
12	12.750	1.125	132.69	...	...	300	323.8	28.58	197.43
12	12.750	1.250	139.81	...	140	300	323.8	31.75	208.08
12	12.750	1.312	153.67	...	...	300	323.8	33.32	228.68
			160.42	...	160	300	323.8		238.69
14	14.000	0.156		...	5	350	355.6	3.96	
14	14.000	0.188	23.09	...	...	350	355.6	4.78	34.34
14	14.000	0.203	27.76	...	...	350	355.6	5.16	41.36
14	14.000	0.210	29.94	...	...	350	355.6	5.33	44.59
14	14.000	0.219	30.96	...	...	350	355.6	5.56	46.04
14	14.000	0.250	32.26	...	...	350	355.6	6.35	48.00
14	14.000	0.281	36.75	...	10	350	355.6	7.14	54.69
14	14.000	0.312	41.21	...	...	350	355.6	7.92	61.36
			45.65	...	20	350	355.6		67.91

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
14	14.000	0.344		...				8.74	
14	14.000	0.375	50.22	STD	...	350	355.6	9.53	74.76
14	14.000	0.406	54.62	...	30	350	355.6	10.31	81.33
14	14.000	0.438	59.00	...	...	350	355.6	11.13	87.79
			63.50	...	40	350	355.6		94.55
14	14.000	0.469		...				11.91	
14	14.000	0.500	67.84	XS	...	350	355.6	12.70	100.95
14	14.000	0.562	72.16	...	...	350	355.6	14.27	107.40
14	14.000	0.594	80.73	...	...	350	355.6	15.09	120.12
14	14.000	0.625	85.13	...	60	350	355.6	15.88	126.72
14	14.000	0.688	89.36	...	.	350	355.6	17.48	133.04
14	14.000	0.750	97.91	...	.	350	355.6	19.05	145.76
14	14.000	0.812	106.23	...	80	350	355.6	20.62	158.11
			114.48	...	...	350	355.6		170.34
14	14.000	0.875	122.77	...	...	350	355.6	22.23	182.76
14	14.000	0.938	130.98	...	100	350	355.6	23.83	194.98
14	14.000	1.000	138.97	...	...	350	355.6	25.40	206.84
14	14.000	1.062	146.88	...	...	350	355.6	26.97	218.58
14	14.000	1.094	150.93	...	120	350	355.6	27.79	224.66
14	14.000	1.125	154.84	...	...	350	355.6	28.58	230.49
14	14.000	1.250	170.37	...	140	350	355.6	31.75	253.58
14	14.000	1.406	189.29	...	160	350	355.6	35.71	281.72
14	14.000	2.000	256.56	...	.	350	355.6	50.80	381.85
14	14.000	2.125	269.76	...	...	350	355.6	53.98	401.52
14	14.000	2.200	277.51	...	...	350	355.6	55.88	413.04
14	14.000	2.500	307.34	...	...	350	355.6	63.50	457.43
16	16.000	0.165	27.93	...	5	400	406.4	4.19	41.56
16	16.000	0.188	31.78	...	.	400	406.4	4.78	47.34
16	16.000	0.203	34.28	...	...	400	406.4	5.16	51.06
16	16.000	0.219	36.95	...	...	400	406.4	5.56	54.96
16	16.000	0.250	42.09	...	10	400	406.4	6.35	62.65
16	16.000	0.281	47.22	...	.	400	406.4	7.14	70.30
16	16.000	0.312	52.32	...	20	400	406.4	7.92	77.83
16	16.000	0.344	57.57	...	.	400	406.4	8.74	85.71
16	16.000	0.375	62.64	STD	30	400	406.4	9.53	93.27
16	16.000	0.406	67.68	...	.	400	406.4	10.31	100.71
16	16.000	0.438	72.86	...	.	400	406.4	11.13	108.49
16	16.000	0.469	77.87	...	...	400	406.4	11.91	115.87
16	16.000	0.500	82.85	XS	40	400	406.4	12.70	123.31
16	16.000	0.562	92.75	...	.	400	406.4	14.27	138.00
16	16.000	0.625	102.72	...	.	400	406.4	15.88	152.94
16	16.000	0.656	107.60	...	60	400	406.4	16.66	160.13
16	16.000	0.688	112.62	...	...	400	406.4	17.48	167.66
16	16.000	0.750	122.27	...	.	400	406.4	19.05	181.98
16	16.000	0.812	131.84	...	...	400	406.4	20.62	196.18
16	16.000	0.844	136.74	...	80	400	406.4	21.44	203.54
16	16.000	0.875	141.48	...	...	400	406.4	22.23	210.61
16	16.000	0.938	151.03	...	.	400	406.4	23.83	224.83
16	16.000	1.000	160.35	...	.	400	406.4	25.40	238.66
16	16.000	1.031	164.98	...	100	400	406.4	26.19	245.57
							
							

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
16	16.000	1.062		...			26.97		252.37
16	16.000	1.125	169.59	...	...	400	406.4	28.58	266.30
16	16.000	1.188	178.89	...	...	400	406.4	30.18	280.01
16	16.000	1.219	188.11	...	...	400	406.4	30.96	286.66
			192.61	...	1 2 0	400	406.4		
16	16.000	1.250		...				31.75	293.35
16	16.000	1.438	197.10	...	...	400	406.4	36.53	333.21
16	16.000	1.594	223.85	...	140	400	406.4	40.49	365.38
			245.48	...	160	400	406.4		
18	18.000	0.165		...				4.19	46.79
18	18.000	0.188	31.46	...	5	450	457	4.78	53.31
18	18.000	0.219	35.80	...	...	450	457	5.56	61.90
18	18.000	0.250	41.63	...	...	450	457	6.35	70.57
18	18.000	0.281	47.44	...	10	450	457	7.14	79.21
18	18.000	0.312	53.23	...	.	450	457	7.92	87.71
18	18.000	0.344	58.99	...	20	450	457	8.74	96.62
18	18.000	0.375	64.93	STD	.	450	457	9.53	105.17
18	18.000	0.406	70.65	...	..	450	457		
18	18.000	0.438	76.36	...	.	450	457	10.31	113.58
18	18.000	0.469	82.23	...	..	450	457	11.13	122.38
18	18.000	0.500	87.89	XS	30	450	457	11.91	130.73
18	18.000	0.562	93.54	...	.	450	457	12.70	139.16
18	18.000	0.625	104.76	...	..	450	457	14.27	155.81
18	18.000	0.688	116.09	...	40	450	457	15.88	172.75
18	18.000	0.750	127.32	...	.	450	457	17.48	189.47
18	18.000	0.812	138.30	...	..	450	457	19.05	205.75
18	18.000	0.875	149.20	...	..	450	457	20.62	221.91
18	18.000	0.938	160.18	...	.	450	457	22.23	238.35
18	18.000	1.000	171.08	...	..	450	457	23.83	254.57
18	18.000	1.062	181.73	...	80	450	457	25.40	270.36
18	18.000	1.125	192.29	...	..	450	457	26.97	286.02
18	18.000	1.156	202.94	...	..	450	457	28.58	301.96
18	18.000	1.188	208.15	...	..	450	457	29.36	309.64
18	18.000	1.219	213.51	...	100	450	457	30.18	317.68
18	18.000	1.250	223.82	...	..	450	457	31.75	332.97
18	18.000	1.375	244.37	...	.	450	457	34.93	363.58
18	18.000	1.562	274.48	...	120	450	457	39.67	408.28
18	18.000	1.781	308.79	...	140	450	457	45.24	459.39
20	20.000	0.188	39.82	...	160	450	457	4.78	59.32
20	20.000	0.219	46.31	...	5	500	508	5.56	68.89
20	20.000	0.250	52.78	...	.	500	508	6.35	78.56
20	20.000	0.281	59.23	...	10	500	508	7.14	88.19
20	20.000	0.312	65.66	...	..	500	508	7.92	97.68
20	20.000	0.344	72.28	...	.	500	508	8.74	107.61
20	20.000	0.375	78.67	STD	..	500	508	9.53	117.15
20	20.000	0.406	85.04	...	20	500	508	10.31	126.54
20	20.000	0.438	91.59	...	..	500	508	11.13	136.38
20	20.000	0.469	97.92	...	.	500	508	11.91	145.71
20	20.000	0.500	104.23	XS	..	500	508	12.70	155.13
20	20.000	0.562	116.78	...	30	500	508	14.27	173.75
				...	..	500	508		
							

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
20	20.000	0.594		...				15.09	183.43
20	20.000	0.625	123.23	...	40	500	508	15.88	192.73
20	20.000	0.688	129.45	...	...	500	508	17.48	211.45
20	20.000	0.750	142.03	...	...	500	508	19.05	229.71
			154.34	...	...	500	508		
20	20.000	0.812		...				20.62	247.84
20	20.000	0.875	166.56	...	60	500	508	22.23	266.31
20	20.000	0.938	178.89	...	...	500	508	23.83	284.54
20	20.000	1.000	191.14	...	...	500	508	25.40	302.30
20	20.000	1.031	203.11	...	...	500	508	26.19	311.19
20	20.000	1.062	209.06	...	80	500	508	26.97	319.94
20	20.000	1.125	215.00	...	...	500	508	28.58	337.91
20	20.000	1.188	227.00	...	...	500	508	30.18	355.63
20	20.000	1.250	238.91	...	...	500	508	31.75	372.91
20	20.000	1.281	250.55	...	...	500	508	32.54	381.55
20	20.000	1.312	256.34	...	100	500	508	33.32	390.05
20	20.000	1.375	262.10	...	...	500	508	34.93	407.51
20	20.000	1.500	273.76	...	...	500	508	38.10	441.52
20	20.000	1.750	296.65	...	120	500	508	44.45	508.15
20	20.000	1.969	341.41	...	140	500	508	50.01	564.85
			379.53	...	160	500	508		
22	22.000	0.188		...				4.78	65.33
22	22.000	0.219	43.84	...	5	550	559	5.56	75.89
22	22.000	0.250	50.99	...	...	550	559	6.35	86.55
22	22.000	0.281	58.13	...	10	550	559	7.14	97.17
22	22.000	0.312	65.24	...	...	550	559	7.92	107.64
22	22.000	0.344	72.34	...	...	550	559	8.74	118.60
22	22.000	0.375	79.64	STD	...	550	559	9.53	129.14
22	22.000	0.406	86.69	...	20	550	559	10.31	139.51
			93.72	...	...	550	559		
22	22.000	0.438	100.96	...	...	550	559	11.13	150.38
22	22.000	0.469	107.95	...	...	550	559	11.91	160.69
22	22.000	0.500	114.92	XS	...	550	559	12.70	171.10
22	22.000	0.562	128.79	...	30	550	559	14.27	191.70
22	22.000	0.625	142.81	...	...	550	559	15.88	212.70
22	22.000	0.688	156.74	...	...	550	559	17.48	233.44
22	22.000	0.750	170.37	...	...	550	559	19.05	253.67
22	22.000	0.812	183.92	...	...	550	559	20.62	273.78
22	22.000	0.875	197.60	...	...	550	559	22.23	294.27
22	22.000	0.938	211.19	...	60	550	559	23.83	314.51
22	22.000	1.000	224.49	...	...	550	559	25.40	334.25
22	22.000	1.062	237.70	...	...	550	559	26.97	353.86
22	22.000	1.125	251.05	...	...	550	559	28.58	373.85
				...	80	550	559		
22	22.000	1.188		...	...	550	559	30.18	393.59
22	22.000	1.250	264.31	...	...	550	559	31.75	412.84
22	22.000	1.312	277.27	...	...	550	559	33.32	431.96
22	22.000	1.375	290.15	...	...	550	559	34.93	451.45
22	22.000	1.438	303.16	...	100	550	559	36.53	470.69
			316.08	...	...	550	559		
22	22.000	1.500		...	...	550	559	38.10	489.44
22	22.000	1.625	328.72	...	...	550	559	41.28	527.05
22	22.000	1.875	353.94	...	120	550	559	47.63	600.67
22	22.000	2.125	403.38	...	140	550	559	53.98	672.30
			451.49	...	160	550	559		

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
24	24.000	0.218		...				5.54	
24	24.000	0.250	55.42	...	5	600	610	6.35	82.58
24	24.000	0.281	63.47	...	10	600	610	7.14	94.53
24	24.000	0.312	71.25	...	...	600	610	7.92	106.15
			79.01	...	...	600	610		117.60
24	24.000	0.344		...				8.74	
24	24.000	0.375	86.99	STD	...	600	610	9.53	129.60
24	24.000	0.406	94.71	...	20	600	610	10.31	141.12
24	24.000	0.438	102.40	...	...	600	610	11.13	152.48
24	24.000	0.469	110.32	...	...	600	610	11.91	164.38
24	24.000	0.500	117.98	XS	...	600	610	12.70	175.67
24	24.000	0.562	125.61	...	...	600	610	14.27	187.07
24	24.000	0.625	140.81	...	30	600	610	15.88	209.65
24	24.000	0.688	156.17	...	...	600	610	17.48	232.67
24	24.000	0.750	171.45	...	40	600	610	19.05	255.43
24	24.000	0.812	186.41	...	...	600	610	20.62	277.63
24	24.000	0.875	201.28	...	...	600	610	22.23	299.71
24	24.000	0.938	216.31	...	...	600	610	23.83	322.23
24	24.000	0.969	231.25	...	...	600	610	24.61	344.48
24	24.000	1.000	238.57	...	60	600	610	25.40	355.28
24	24.000	1.062	245.87	...	...	600	610	26.97	366.19
24	24.000	1.125	260.41	...	...	600	610	28.58	387.79
24	24.000	1.188	275.10	...	...	600	610	30.18	409.80
24	24.000	1.219	289.71	...	...	600	610	30.96	431.55
24	24.000	1.250	296.86	...	80	600	610	31.75	442.11
24	24.000	1.312	304.00	...	...	600	610	33.32	452.77
24	24.000	1.375	318.21	...	...	600	610	34.93	473.87
24	24.000	1.438	332.56	...	...	600	610	36.53	495.38
24	24.000	1.500	346.83	...	...	600	610	38.10	516.63
24	24.000	1.531	360.79	...	...	600	610	38.89	537.36
24	24.000	1.562	367.74	...	100	600	610	39.67	547.74
24	24.000	1.812	374.66	...	...	600	610	46.02	557.97
24	24.000	2.062	429.79	...	120	600	610	52.37	640.07
24	24.000	2.344	483.57	...	140	600	610	59.54	720.19
			542.64	...	160	600	610		808.27
26	26.000	0.250		...				6.35	
26	26.000	0.281	68.82	...	...	650	660	7.14	102.36
26	26.000	0.312	77.26	...	...	650	660	7.92	114.96
26	26.000	0.344	85.68	...	10	650	660	8.74	127.36
26	26.000	0.375	94.35	STD	...	650	660	9.53	140.37
26	26.000	0.406	102.72	...	...	650	660	10.31	152.88
26	26.000	0.438	111.08	...	...	650	660	11.13	165.19
26	26.000	0.469	119.69	...	...	650	660	11.91	178.10
26	26.000	0.500	128.00	XS	...	650	660	12.70	190.36
26	26.000	0.562	136.30	...	20	650	660	14.27	202.74
26	26.000	0.625	152.83	...	...	650	660	15.88	227.25
26	26.000	0.688	169.54	...	...	650	660	17.48	252.25
26	26.000	0.750	186.16	...	...	650	660	19.05	276.98
26	26.000	0.812	202.44	...	...	650	660	20.62	301.12
26	26.000	0.875	218.64	...	...	650	660	22.23	325.14
26	26.000	0.938	235.01	...	...	650	660	23.83	349.64
26	26.000	1.000	251.30	...	...	650	660	25.40	373.87
			267.25	...	...	650	660		397.51
							
							
							

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
28	28.000	0.250		...	...	700		6.35	110.35
28	28.000	0.281	74.16	...	...	700	711	7.14	123.94
28	28.000	0.312	83.26	...	...	700	711	7.92	137.32
28	28.000	0.344	92.35	...	1 0	700	711	8.74	151.37
			101.70	...	...	700	711		
28	28.000	0.375		STD	...	700		9.53	164.86
28	28.000	0.406	110.74	...	...	700	711	10.31	178.16
28	28.000	0.438	119.76	...	...	700	711	11.13	192.10
28	28.000	0.469	129.05	...	...	700	711	11.91	205.34
28	28.000	0.500	138.03	XS	...	700	711	12.70	218.71
28	28.000	0.562	146.99	...	20	700	711	14.27	245.19
28	28.000	0.625	164.84	...	.	700	711	15.88	272.23
28	28.000	0.688	182.90	...	30	700	711	17.48	298.96
28	28.000	0.750	200.87	...	...	700	711	19.05	325.08
28	28.000	0.812	218.48	...	...	700	711	20.62	351.07
28	28.000	0.875	236.00	...	...	700	711	22.23	377.60
28	28.000	0.938	253.72	...	...	700	711	23.83	403.84
28	28.000	1.000	271.36	...	...	700	711	25.40	429.46
			288.63	...	...	700	711		
30	30.000	0.250		...	...			6.35	118.34
30	30.000	0.281	79.51	...	5	750	762	7.14	132.92
30	30.000	0.312	89.27	...	.	750	762	7.92	147.29
30	30.000	0.344	99.02	...	10	750	762	8.74	162.36
30	30.000	0.375	109.06	STD	.	750	762	9.53	176.85
30	30.000	0.406	118.76	...	...	750	762	10.31	191.12
30	30.000	0.438	128.44	...	...	750	762	11.13	206.10
30	30.000	0.469	138.42	...	...	750	762	11.91	220.32
30	30.000	0.500	148.06	XS	...	750	762	12.70	234.68
30	30.000	0.562	157.68	...	20	750	762	14.27	263.14
30	30.000	0.625	176.86	...	.	750	762	15.88	292.20
30	30.000	0.688	196.26	...	30	750	762	17.48	320.95
30	30.000	0.750	215.58	...	...	750	762	19.05	349.04
30	30.000	0.812	234.51	...	...	750	762	20.62	377.01
30	30.000	0.875	253.36	...	...	750	762	22.23	405.56
30	30.000	0.938	272.43	...	...	750	762	23.83	433.81
30	30.000	1.000	291.41	...	...	750	762	25.40	461.41
30	30.000	1.062	310.01	...	...	750	762	26.97	488.88
30	30.000	1.125	328.53	...	...	750	762	28.58	516.93
30	30.000	1.188	347.26	...	...	750	762	30.18	544.68
30	30.000	1.250	365.90	...	...	750	762	31.75	571.79
			384.17	...	...	750	762		
32	32.000	0.250		...	...			6.35	126.32
32	32.000	0.281	84.85	...	...	800	813	7.14	141.90
32	32.000	0.312	95.28	...	.	800	813	7.92	157.25
32	32.000	0.344	105.69	...	10	800	813	8.74	173.35
32	32.000	0.375	116.41	STD	...	800	813	9.53	188.83
32	32.000	0.406	126.78	...	.	800	813	10.31	204.09
32	32.000	0.438	137.12	...	...	800	813	11.13	220.10
32	32.000	0.469	147.78	...	...	800	813	11.91	235.29
32	32.000	0.500	158.08	XS	...	800	813	12.70	250.65
32	32.000	0.562	168.37	...	20	800	813	14.27	281.09
32	32.000	0.625	188.87	...	...	800	813	15.88	312.17
32	32.000	0.688	209.62	...	30	800	813	17.48	342.94
			230.29	...	40	800	813		
							

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
32	32.000	0.750		...				19.05	373.00
32	32.000	0.812	250.55	...	...	800	813	20.62	402.94
32	32.000	0.875	270.72	...	...	800	813	22.23	433.52
32	32.000	0.938	291.14	...	...	800	813	23.83	463.78
			311.47	...	...	800	813		
32	32.000	1.000		...	...			25.40	493.35
32	32.000	1.062	331.39	...	...	800	813	26.97	522.80
32	32.000	1.125	351.23	...	...	800	813	28.58	552.88
32	32.000	1.188	371.31	...	...	800	813	30.18	582.64
32	32.000	1.250	391.30	...	...	800	813	31.75	611.72
			410.90	...	...	800	813		
34	34.000	0.250		...	...			6.35	134.31
34	34.000	0.281	90.20	...	...	850	864	7.14	150.88
34	34.000	0.312	101.29	...	...	850	864	7.92	167.21
34	34.000	0.344	112.36	...	10	850	864	8.74	184.34
34	34.000	0.375	123.77	STD	...	850	864	9.53	200.82
34	34.000	0.406	134.79	...	...	850	864	10.31	217.06
34	34.000	0.438	145.80	...	...	850	864	11.13	234.10
34	34.000	0.469	157.14	...	...	850	864	11.91	250.27
34	34.000	0.500	168.11	XS	...	850	864	12.70	266.63
34	34.000	0.562	179.06	...	20	850	864	14.27	299.04
34	34.000	0.625	200.89	...	...	850	864	15.88	332.14
34	34.000	0.688	222.99	...	30	850	864	17.48	364.92
34	34.000	0.750	245.00	...	40	850	864	19.05	396.96
34	34.000	0.812	266.58	...	...	850	864	20.62	428.88
34	34.000	0.875	288.08	...	...	850	864	22.23	461.48
34	34.000	0.938	309.84	...	...	850	864	23.83	493.75
34	34.000	1.000	331.52	...	...	850	864	25.40	525.30
34	34.000	1.062	352.77	...	...	850	864	26.97	556.73
34	34.000	1.125	373.94	...	...	850	864	28.58	588.83
34	34.000	1.188	395.36	...	...	850	864	30.18	620.60
34	34.000	1.250	416.70	...	...	850	864	31.75	651.65
			437.62	...	...	850	864		
36	36.000	0.250		...	...			6.35	142.14
36	36.000	0.281	95.54	...	...	900	914	7.14	159.68
36	36.000	0.312	107.30	...	...	900	914	7.92	176.97
36	36.000	0.344	119.03	...	10	900	914	8.74	195.12
36	36.000	0.375	131.12	STD	...	900	914	9.53	212.57
36	36.000	0.406	142.81	...	...	900	914	10.31	229.77
36	36.000	0.438	154.48	...	...	900	914	11.13	247.82
36	36.000	0.469	166.51	...	...	900	914	11.91	264.96
36	36.000	0.500	178.14	XS	...	900	914	12.70	282.29
36	36.000	0.562	189.75	...	20	900	914	14.27	316.63
36	36.000	0.625	212.90	...	...	900	914	15.88	351.73
36	36.000	0.688	236.35	...	30	900	914	17.48	386.47
36	36.000	0.750	259.71	...	...	900	914	19.05	420.45
36	36.000	0.812	282.62	...	40	900	914	20.62	454.30
36	36.000	0.875	305.44	...	...	900	914	22.23	488.89
36	36.000	0.938	328.55	...	...	900	914	23.83	523.14
			351.57	...	...	900	914		

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
36	36.000	1.000		...				25.40	556.62
36	36.000	1.062	374.15	...	..	900	914	26.97	589.98
36	36.000	1.125	396.64	...	..	900	914	28.58	624.07
36	36.000	1.188	419.42	...	..	900	914	30.18	657.81
36	36.000	1.250	442.10	...	..	900	914	31.75	690.80
			464.35	...	..	900	914		
38	38.000	0.312		...	..			7.92	186.94
38	38.000	0.344	125.70	...	..	950	965	8.74	206.11
38	38.000	0.375	138.47	STD	..	950	965	9.53	224.56
38	38.000	0.406	150.83	...	..	950	965	10.31	242.74
38	38.000	0.438	163.16	...	..	950	965	11.13	261.82
38	38.000	0.469	175.87	...	..	950	965	11.91	279.94
38	38.000	0.500	188.17	XS	..	950	965	12.70	298.26
38	38.000	0.562	200.44	...	..	950	965	14.27	334.58
38	38.000	0.625	224.92	...	..	950	965	15.88	371.70
38	38.000	0.688	249.71	...	..	950	965	17.48	408.46
38	38.000	0.750	274.42	...	..	950	965	19.05	444.41
38	38.000	0.812	298.65	...	..	950	965	20.62	480.24
38	38.000	0.875	322.80	...	..	950	965	22.23	516.85
38	38.000	0.938	347.26	...	..	950	965	23.83	553.11
38	38.000	1.000	371.63	...	..	950	965	25.40	588.57
38	38.000	1.062	395.53	...	..	950	965	26.97	623.90
38	38.000	1.125	419.35	...	..	950	965	28.58	660.01
38	38.000	1.188	443.47	...	..	950	965	30.18	695.77
38	38.000	1.250	467.50	...	..	950	965	31.75	730.74
			491.07	...	..	950	965		
40	40.000	0.312		...	..			7.92	196.90
40	40.000	0.344	132.37	...	..	1000	1016	8.74	217.11
40	40.000	0.375	145.83	STD	..	1000	1016	9.53	236.54
40	40.000	0.406	158.85	...	..	1000	1016	10.31	255.71
40	40.000	0.438	171.84	...	..	1000	1016	11.13	275.82
40	40.000	0.469	185.24	...	..	1000	1016	11.91	294.92
40	40.000	0.500	198.19	XS	..	1000	1016	12.70	314.23
40	40.000	0.562	211.13	...	..	1000	1016	14.27	352.53
40	40.000	0.625	236.93	...	..	1000	1016	15.88	391.67
40	40.000	0.688	263.07	...	..	1000	1016	17.48	430.45
40	40.000	0.750	289.13	...	..	1000	1016	19.05	468.37
40	40.000	0.812	314.69	...	..	1000	1016	20.62	506.17
40	40.000	0.875	340.16	...	..	1000	1016	22.23	544.81
40	40.000	0.938	365.97	...	..	1000	1016	23.83	583.08
40	40.000	1.000	391.68	...	..	1000	1016	25.40	620.51
40	40.000	1.062	416.91	...	..	1000	1016	26.97	657.82
40	40.000	1.125	442.05	...	..	1000	1016	28.58	695.96
40	40.000	1.188	467.52	...	..	1000	1016	30.18	733.73
40	40.000	1.250	492.90	...	..	1000	1016	31.75	770.67
			517.80	...	..	1000	1016		
42	42.000	0.344		...	..			8.74	228.10
42	42.000	0.375	153.18	STD	..	1050	1067	9.53	248.53
42	42.000	0.406	166.86	...	..	1050	1067	10.31	268.67
42	42.000	0.438	180.52	...	..	1050	1067	11.13	289.82
			194.60	...	..	1050	1067		

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
42	42.000	0.469		...	..	1050	1067	11.91	309.90
42	42.000	0.500	208.22	XS	..	1050	1067	12.70	330.21
42	42.000	0.562	221.82	...	..	1050	1067	14.27	370.48
42	42.000	0.625	248.95	...	..	1050	1067	15.88	411.64
			276.44	...	..	1050	1067		
42	42.000	0.688		...	..	1050	1067	17.48	452.43
42	42.000	0.750	303.84	...	..	1050	1067	19.05	492.33
42	42.000	0.812	330.72	...	..	1050	1067	20.62	532.11
42	42.000	0.875	357.52	...	..	1050	1067	22.23	572.77
42	42.000	0.938	384.67	...	..	1050	1067	23.83	613.05
42	42.000	1.000	411.74	...	..	1050	1067	25.40	652.46
42	42.000	1.062	438.29	...	..	1050	1067	26.97	691.75
42	42.000	1.125	464.76	...	..	1050	1067	28.58	731.91
42	42.000	1.188	491.57	...	..	1050	1067	30.18	771.69
42	42.000	1.250	518.30	...	..	1050	1067	31.75	810.60
44	44.000	0.344	544.52	...	..	1050	1067	8.74	239.09
44	44.000	0.375	160.54	STD	..	1100	1118	9.53	260.52
44	44.000	0.406	174.88	...	..	1100	1118	10.31	281.64
44	44.000	0.438	189.20	...	..	1100	1118	11.13	303.82
44	44.000	0.469	203.97	...	..	1100	1118	11.91	324.88
44	44.000	0.500	218.25	XS	..	1100	1118	12.70	346.18
44	44.000	0.562	232.51	...	..	1100	1118	14.27	388.42
44	44.000	0.625	260.97	...	..	1100	1118	15.88	431.62
44	44.000	0.688	289.80	...	..	1100	1118	17.48	474.42
44	44.000	0.750	318.55	...	..	1100	1118	19.05	516.29
44	44.000	0.812	346.76	...	..	1100	1118	20.62	558.04
44	44.000	0.875	374.88	...	..	1100	1118	22.23	600.73
44	44.000	0.938	403.38	...	..	1100	1118	23.83	643.03
			431.79	...	..	1100	1118		
44	44.000	1.000		...	..	1100	1118	25.40	684.41
44	44.000	1.062	459.67	...	..	1100	1118	26.97	725.67
44	44.000	1.125	487.47	...	..	1100	1118	28.58	767.85
44	44.000	1.188	515.63	...	..	1100	1118	30.18	809.65
44	44.000	1.250	543.70	...	..	1100	1118	31.75	850.54
			571.25	...	..	1100	1118		
46	46.000	0.344		...	..	1150	1168	8.74	249.87
46	46.000	0.375	167.89	STD	..	1150	1168	9.53	272.27
46	46.000	0.406	182.90	...	..	1150	1168	10.31	294.35
46	46.000	0.438	197.88	...	..	1150	1168	11.13	317.54
46	46.000	0.469	213.33	...	..	1150	1168	11.91	339.56
46	46.000	0.500	228.27	XS	..	1150	1168	12.70	361.84
46	46.000	0.562	243.20	...	..	1150	1168	14.27	406.02
46	46.000	0.625	272.98	...	..	1150	1168	15.88	451.20
46	46.000	0.688	303.16	...	..	1150	1168	17.48	495.97
46	46.000	0.750	333.26	...	..	1150	1168	19.05	539.78
46	46.000	0.812	362.79	...	..	1150	1168	20.62	583.47
46	46.000	0.875	392.24	...	..	1150	1168	22.23	628.14
46	46.000	0.938	422.09	...	..	1150	1168	23.83	672.41
			451.85	...	..	1150	1168		
46	46.000	1.000		...	..	1150	1168	25.40	715.73
46	46.000	1.062	481.05	...	..	1150	1168	26.97	758.92
46	46.000	1.125	510.17	...	..	1150	1168	28.58	803.09
46	46.000	1.188	539.68	...	..	1150	1168	30.18	846.86
46	46.000	1.250	569.10	...	..	1150	1168	31.75	889.69
			597.97	...	..	1150	1168		

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
48	48.000	0.344		...	..	1200		8.74	260.86
48	48.000	0.375	175.25	STD	..	1200	1219	9.53	284.25
48	48.000	0.406	190.92	...	..	1200	1219	10.31	307.32
48	48.000	0.438	206.56	...	..	1200	1219	11.13	331.54
			222.70	...	..	1200	1219		
48	48.000	0.469		...	..	1200		11.91	354.54
48	48.000	0.500	238.30	XS	..	1200	1219	12.70	377.81
48	48.000	0.562	253.89	...	..	1200	1219	14.27	423.97
48	48.000	0.625	285.00	...	..	1200	1219	15.88	471.17
48	48.000	0.688	316.52	...	..	1200	1219	17.48	517.95
48	48.000	0.750	347.97	...	..	1200	1219	19.05	563.74
48	48.000	0.812	378.83	...	..	1200	1219	20.62	609.40
48	48.000	0.875	409.61	...	..	1200	1219	22.23	656.10
48	48.000	0.938	440.80	...	..	1200	1219	23.83	702.38
			471.90	...	..	1200	1219		
48	48.000	1.000		...	..	1200		25.40	747.67
48	48.000	1.062	502.43	...	..	1200	1219	26.97	792.84
48	48.000	1.125	532.88	...	..	1200	1219	28.58	839.04
48	48.000	1.188	563.73	...	..	1200	1219	30.18	884.82
48	48.000	1.250	594.50	...	..	1200	1219	31.75	929.62
			624.70	...	..	1200	1219		
52	52.000	0.375		...	..	1300		9.53	308.23
52	52.000	0.406	206.95	...	..	1300	1321	10.31	333.26
52	52.000	0.438	223.93	...	..	1300	1321	11.13	359.54
52	52.000	0.469	241.42	...	..	1300	1321	11.91	384.50
52	52.000	0.500	258.36	...	..	1300	1321	12.70	409.76
52	52.000	0.562	275.27	...	..	1300	1321	14.27	459.86
52	52.000	0.625	309.03	...	..	1300	1321	15.88	511.12
52	52.000	0.688	343.25	...	..	1300	1321	17.48	561.93
52	52.000	0.750	377.39	...	..	1300	1321	19.05	611.66
52	52.000	0.812	410.90	...	..	1300	1321	20.62	661.27
52	52.000	0.875	444.33	...	..	1300	1321	22.23	712.02
52	52.000	0.938	478.21	...	..	1300	1321	23.83	762.33
52	52.000	1.000	512.01	...	..	1300	1321	25.40	811.57
52	52.000	1.062	545.19	...	..	1300	1321	26.97	860.69
52	52.000	1.125	578.29	...	..	1300	1321	28.58	910.93
52	52.000	1.188	611.84	...	..	1300	1321	30.18	960.74
52	52.000	1.250	645.30	...	..	1300	1321	31.75	1 009.49
			678.15	...	..	1300	1321		
56	56.000	0.375		...	..	1400		9.53	331.96
56	56.000	0.406	222.99	...	..	1400	1422	10.31	358.94
56	56.000	0.438	241.29	...	..	1400	1422	11.13	387.26
56	56.000	0.469	260.15	...	..	1400	1422	11.91	414.17
56	56.000	0.500	278.41	...	..	1400	1422	12.70	441.39
56	56.000	0.562	296.65	...	..	1400	1422	14.27	495.41
56	56.000	0.625	333.06	...	..	1400	1422	15.88	550.67
56	56.000	0.688	369.97	...	..	1400	1422	17.48	605.46
56	56.000	0.750	406.80	...	..	1400	1422	19.05	659.11
56	56.000	0.812	442.97	...	..	1400	1422	20.62	712.63
56	56.000	0.875	479.05	...	..	1400	1422	22.23	767.39
56	56.000	0.938	515.63	...	..	1400	1422	23.83	821.68
			552.12	...	..	1400	1422		

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
56	56.000	1.000		...			25.40		874.83
56	56.000	1.062	587.95	...	..	1400	1422	26.97	927.86
56	56.000	1.125	623.70	...	..	1400	1422	28.58	982.12
56	56.000	1.188	659.94	...	..	1400	1422	30.18	1 035.91
56	56.000	1.250	696.10	...	..	1400	1422	31.75	1 088.57
			731.60	...	..	1400	1422		
60	60.000	0.375		...	..			9.53	355.94
60	60.000	0.406	239.02	...	..	1500	1524	10.31	384.87
60	60.000	0.438	258.65	...	..	1500	1524	11.13	415.26
60	60.000	0.469	278.88	...	..	1500	1524	11.91	444.13
60	60.000	0.500	298.47	...	..	1500	1524	12.70	473.34
60	60.000	0.562	318.03	...	..	1500	1524	14.27	531.30
60	60.000	0.625	357.09	...	..	1500	1524	15.88	590.62
60	60.000	0.688	396.70	...	..	1500	1524	17.48	649.44
60	60.000	0.750	436.22	...	..	1500	1524	19.05	707.03
60	60.000	0.812	475.04	...	..	1500	1524	20.62	764.50
60	60.000	0.875	513.77	...	..	1500	1524	22.23	823.31
60	60.000	0.938	553.04	...	..	1500	1524	23.83	881.63
60	60.000	1.000	592.23	...	..	1500	1524	25.40	938.73
60	60.000	1.062	630.71	...	..	1500	1524	26.97	995.71
60	60.000	1.125	669.11	...	..	1500	1524	28.58	1 054.01
60	60.000	1.188	708.05	...	..	1500	1524	30.18	1 111.83
60	60.000	1.250	746.90	...	..	1500	1524	31.75	1 168.44
			785.05	...	..	1500	1524		
64	64.000	0.375		...	..			9.53	379.91
64	64.000	0.406	255.06	...	..	1600	1626	10.31	410.81
64	64.000	0.438	276.01	...	..	1600	1626	11.13	443.25
64	64.000	0.469	297.61	...	..	1600	1626	11.91	474.09
64	64.000	0.500	318.52	...	..	1600	1626	12.70	505.29
64	64.000	0.562	339.41	...	..	1600	1626	14.27	567.20
64	64.000	0.625	381.12	...	..	1600	1626	15.88	630.56
64	64.000	0.688	423.42	...	..	1600	1626	17.48	693.41
64	64.000	0.750	465.64	...	..	1600	1626	19.05	754.95
64	64.000	0.812	507.11	...	..	1600	1626	20.62	816.37
64	64.000	0.875	548.49	...	..	1600	1626	22.23	879.23
64	64.000	0.938	590.46	...	..	1600	1626	23.83	941.57
64	64.000	1.000	632.34	...	..	1600	1626	25.40	1 002.62
64	64.000	1.062	673.47	...	..	1600	1626	26.97	1 063.55
64	64.000	1.125	714.52	...	..	1600	1626	28.58	1 125.90
64	64.000	1.188	756.15	...	..	1600	1626	30.18	1 187.74
64	64.000	1.250	797.69	...	..	1600	1626	31.75	1 248.30
			838.50	...	..	1600	1626		
68	68.000	0.469		...	..			11.91	503.75
68	68.000	0.500	338.57	...	..	1700	1727	12.70	536.92
68	68.000	0.562	360.79	...	..	1700	1727	14.27	602.74
68	68.000	0.625	405.15	...	..	1700	1727	15.88	670.12
68	68.000	0.688	450.15	...	..	1700	1727	17.48	736.95
68	68.000	0.750	495.06	...	..	1700	1727	19.05	802.40
68	68.000	0.812	539.18	...	..	1700	1727	20.62	867.73
68	68.000	0.875	583.21	...	..	1700	1727	22.23	934.60
68	68.000	0.938	627.87	...	..	1700	1727	23.83	1 000.92
			672.45	...	..	1700	1727		

Table 1 Dimensions and Weights of Welded and Seamless Wrought Steel Pipe (Cont'd)

NPS [Note (1)]	Customary Units			Identification [Standard (STD), Extra-Strong (XS), or Double Extra Strong (XXS)]	Schedule No.	DN [Note (2)]	SI Units		
	Outside Diameter, in.	Wall Thickness, in.	Plain End Weight, lb/ft				Outside Diameter, mm	Wall Thickness, mm	Plain End Mass, kg/m
68	68.000	1.000	...	...	...	1700	1727	25.40	1065.89
68	68.000	1.062	716.23	...	...	1700	1727	26.97	1130.73
68	68.000	1.125	759.93	...	...	1700	1727	28.58	1197.09
68	68.000	1.188	804.26	...	...	1700	1727	30.18	1262.92
68	68.000	1.250	848.49	...	...	1700	1727	31.75	1327.39
			891.95	...	...	1700	1727		
72	72.000	0.500	...	...	...	1800	1829	12.70	568.87
72	72.000	0.562	382.17	...	...	1800	1829	14.27	638.64
72	72.000	0.625	429.18	...	...	1800	1829	15.88	710.06
72	72.000	0.688	476.87	...	...	1800	1829	17.48	780.92
72	72.000	0.750	524.48	...	...	1800	1829	19.05	850.32
72	72.000	0.812	571.25	...	...	1800	1829	20.62	919.60
72	72.000	0.875	617.93	...	...	1800	1829	22.23	990.52
72	72.000	0.938	665.29	...	...	1800	1829	23.83	1060.87
72	72.000	1.000	712.55	...	...	1800	1829	25.40	1129.78
72	72.000	1.062	758.99	...	...	1800	1829	26.97	1198.57
72	72.000	1.125	805.34	...	...	1800	1829	28.58	1268.98
72	72.000	1.188	852.36	...	...	1800	1829	30.18	1338.83
72	72.000	1.250	899.29	...	...	1800	1829	31.75	1407.25
			945.40	...	...	1800	1829		
76	76.000	0.500	...	...	...	1900	1930	12.70	600.50
76	76.000	0.562	403.55	...	...	1900	1930	14.27	674.18
76	76.000	0.625	453.21	...	...	1900	1930	15.88	749.62
76	76.000	0.688	503.60	...	...	1900	1930	17.48	824.45
76	76.000	0.750	553.90	...	...	1900	1930	19.05	897.77
76	76.000	0.812	603.32	...	...	1900	1930	20.62	970.96
76	76.000	0.875	652.65	...	...	1900	1930	22.23	1045.89
76	76.000	0.938	702.70	...	...	1900	1930	23.83	1120.22
76	76.000	1.000	752.66	...	...	1900	1930	25.40	1193.05
76	76.000	1.062	801.75	...	...	1900	1930	26.97	1265.74
76	76.000	1.125	850.75	...	...	1900	1930	28.58	1340.17
76	76.000	1.188	900.47	...	...	1900	1930	30.18	1414.01
76	76.000	1.250	950.09	...	...	1900	1930	31.75	1486.33
			998.85	...	...	1900	1930		
80	80.000	0.562	...	...	...	2000	2032	14.27	710.08
80	80.000	0.625	477.25	...	...	2000	2032	15.88	789.56
80	80.000	0.688	530.32	...	...	2000	2032	17.48	868.43
80	80.000	0.750	583.32	...	...	2000	2032	19.05	945.69
80	80.000	0.812	635.39	...	...	2000	2032	20.62	1022.83
80	80.000	0.875	687.37	...	...	2000	2032	22.23	1101.81
80	80.000	0.938	740.12	...	...	2000	2032	23.83	1180.17
80	80.000	1.000	792.77	...	...	2000	2032	25.40	1256.94
80	80.000	1.062	844.51	...	...	2000	2032	26.97	1333.59
80	80.000	1.125	896.17	...	...	2000	2032	28.58	1412.06
80	80.000	1.188	948.57	...	...	2000	2032	30.18	1489.92
80	80.000	1.250	1,000.89	...	...	2000	2032	31.75	1566.20
			1,052.30	...	...	2000	2032		

NOTES:

(1) NPS (Nominal Pipe Size) is a dimensionless designator that has been substituted in the customary units section for the previous term *Inch Nominal Size*.

(2) DN (Nominal Diameter) is a dimensionless designator used in the SI (metric) system to describe pipe size.

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super duplex 2507 pipe

316L stainless steel pipe

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