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PIPE

2023

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PIPE

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ASTM - Carbon Steel

ASTM A53/A53M – 2022

This specification covers seamless and welded black and hot-dipped galvanized steel pipe in NPS 1/8 to 26 inclusive with nominal wall thickness as given in tables (see the standard)

Pipe may be furnished in the following types and grades:

Type F: Furnace-butt welded (FBW) – Grade A

Type E: Electric-resistance welded (ERW) – Grades A and B

Type S: Seamless – Grades A and B

• Chemical Requirements, max%

Types	Grade	C	Mn	S	P	Cr ^(A)	Cu ^(A)	Mo ^(A)	Ni ^(A)	V ^(A)
S	A	0.25 ^(B)	0.95	0.045	0.05	0.40	0.40	0.15	0.40	0.08
	B	0.30 ^(C)	1.20	0.045	0.05	0.40	0.40	0.15	0.40	0.08
E	A	0.25 ^(B)	0.95	0.045	0.05	0.40	0.40	0.15	0.40	0.08
	B	0.30 ^(C)	1.20	0.045	0.05	0.40	0.40	0.15	0.40	0.08
F	A & B	0.30 ^(B)	1.20	0.045	0.05	0.40	0.40	0.15	0.40	0.08

^A These five elements combined shall not exceed 1.00 %

^B For each reduction of 0.01% below the specified carbon maximum, an increase of 0.06% manganese above the specified maximum will be Permitted up to a maximum of 1.35%

^C For each reduction of 0.01% below the specified carbon maximum, an increase of 0.06% manganese above the specified maximum will be permitted up to a maximum of 1.65%

• TENSILE REQUIREMENTS

Types	Grades	Minimum tensile strength		Minimum yield strength		Minimum elongation in 2", per cent
		Psi	MPa	Psi	MPa	
F	A	48.0	330	30.0	205	e = 625.000 A ^{0.2} / U ^{0.9} (Voir ASTM)
E & S E&S	A	48.0	330	30.0	205	
	B	60.0	415	35.0	240	

• TOLERANCES

Outside diameter (pipe body)	NPS 1 1/2 (1.900" OD) and under	(0.40mm) 64/1" ±
		NPS 2 (2.375" OD) and over	1 % ±
On thickness		-12.5%
On weight		±10%

ASTM A106/A106 M -2019

Seamless Carbon Steel Pipe for high temperature Service

• Chemical Requirements

Grade	C	Mn	P	S	Si	Cr	Cu	Mo	Ni	V
	max		max	max	min	Max ^C	Max ^C	Max ^C	Max ^C	Max ^C
A	0.25 ^A	0.27 -0.93	0.035	0.035	0.10	0.40	0.40	0.15	0.40	0.08
B	0.30 ^B	0.29 - 1.06	0.035	0.035	0.10	0.40	0.40	0.15	0.40	0.08
C	0.35 ^B	0.29 - 1.06	0.035	0.035	0.10	0.40	0.40	0.15	0.40	0.08

^A For each reduction of 0.01 % below the specified carbon maximum, an increase of 0.06 % manganese above the specified maximum will be permitted up to a maximum of 1.35 %

^B Unless otherwise specified by the purchaser, for each reduction of 0.01% below the specified carbon maximum, an increase of 0.06% manganese above the specified maximum will be permitted up to a maximum of 1.65%

^C These five elements combined shall not exceed 1 %.

• TENSILE REQUIREMENTS

Grades		A		B		C	
		L	T	L	T	L	T
Minimum tensile strength	Psi	48.0	000 60	70 000			
	MPa	330	415	485			
Minimum yield strength	Psi	30.0	000 35	40 000			
	MPa	205	240	275			
Basic minimum elongation transvers strip tests, and for all small sizes tested in full section		35	25	30	16.5	30	16.5
		28	20	22	12	20	12
When standard round 2-in (50mm) gauge length test specimen is used							

Min elongation in 2" shall be: $e = 1940 A^{0.2}/U^{0.9}$ *SI unit.

e = minimum elongation in 2 in. [50 mm], %, rounded to the nearest 0.5 %

A = cross-sectional area of the tension test specimen, in.2 [mm2], based upon specified outside diameter or nominal specimen width and specified wall thickness, rounded to the nearest 0.01 in.2 [1 mm2]. (If the area thus calculated is equal to or greater than 0.75 in.2 [500 mm2], then the value 0.75 in.2 [500 mm2] shall be used.)

U = specified tensile strength, psi [MPa].

• TOLERANCES: Outside diameter: as follows

NPS	OD mm	over		under	
		mm	inches	mm	inches
1/8 to 1 1/2(6 to 40)	10.3 to 48.3	0.4	1/64(0.015)	0.4	1/64(0.015)
Over 1 ½ to 4(40 to 100), incl	60.3 to 114.3	0.8	1/32(0.031)	0.8	1/32(0.031)
Over 4 to 8(100-200),incl	141.3 to 219.1	1.6	1/16(0.062)	0.8	1/32(0.031)

NPS	OD mm	over		under	
		mm	inches	mm	inches
Over 8 to 18 [200 to 450], incl	273.0 to 457.2	2.4	3.32(0.093)	0.8	1/32(0.031)
Over 18 to 26 [450 to 650], incl	508.0 to 660.0	3.2	1/8(0.125)	0.8	1/32(0.031)
Over 26 to 34 [650 to 850], incl	711.0 to 864.0	4.0	5.32(0.156)	0.8	1/32(0.031)
Over 34 to 48 [850 to 1200], incl	914.0 to 1219.0	4.8	3/16(0.187)	0.8	1/32(0.031)

• Dimensions, Mass, and Permissible Variations

Thickness	The minimum wall thickness at any point shall not be more than 12.5 % under the specified wall thickness
Mass	shall not vary more than 10 % over and 3.5 % under that specified, pipe in NPS 4 [DN 100] and smaller may be weighed in convenient lots; pipe larger than NPS 4 [DN 100] shall be weighed separately.
Hydrostatic test pressure (see ASTM A530/A530 M -99)	<p>Given by the formula $p=2ST/D$ Where P: Test pressure in PSI T: Wall thickness in inches S: Pipe wall stress in PSI D: outside diameter in inches Regardless of pipe-wall stress-level determined by Eq3, the minimum hydrostatic test pressure required to satisfy these requirements need not exceed 2500 psi [17.0 MPa] for outside diameters of 3.5 in. [88.9 mm] or less, nor 2800 psi [19.0 MPa] for outside diameters over 3.5 in. [88.9 mm].</p>
lengths	Double random lengths shall have a minimum average length of 35 ft [10.7 m] and shall have a minimum length of 22 ft [6.7 m], except that 5 % shall be permitted to be less than 22 ft [6.7 m] and none shall be less than 16 ft [4.8 m].

ASTM A 179 / A 179 M-2019

Seamless cold drawn low carbon steel heat-exchanger and condenser tubes.

1/8" (3.2 mm) to 3" (76.2 mm) included, in outside diameter.

• Chemical and Hardness requirements

CHEMICAL REQUIREMENTS				HARDNESS REQUIREMENTS
C%	Mn%	P (max)%	S (max)%	Rockwell hardness(max)
0.06 - 0.18	0.27 - 0.63	0.035	0.035	72HRBW.

TOLERANCES: (See ASTM A450 / A450M-2021)

• Permissible Variations in Outside Diameter ^A

Outside Diameter, in.(mm)	Permissible variations, in.(mm)	
	Over	Under
Hot-Finished Seamless Tubes		
4 [101.6] and under	1/64 [0.4]	1/32 [0.8]
Over 4 to 7 1/2 [101.6 to 190.5], incl	1/64 [0.4]	3/64 [1.2]
Over 7 1/2 to 9 [190.5 to 228.6], incl	1/64 [0.4]	1/16 [1.6]
Welded Tubes and Cold-Finished Seamless Tubes		
Under 1 [25.4]	0.004 [0.1]	0.004 [0.1]
1 to 1 1/2 [25.4 to 38.1], incl	0.006 [0.15]	0.006 [0.15]
Over 1 1/2 to 2 [38.1 to 50.8], excl	0.008 [0.2]	0.008 [0.2]
2 to 2 1/2 [50.8 to 63.5], excl	0.010 [0.25]	0.010 [0.25]
2 1/2 to 3 [63.5 to 76.2], excl	0.012 [0.3]	0.012 [0.3]
3 to 4 [76.2 to 101.6], incl	0.015 [0.38]	0.015 [0.38]
Over 4 to 7 1/2 [101.6 to 190.5], incl	0.015 [0.38]	0.025 [0.64]
Over 7 1/2 to 9 [190.5 to 228.6], incl	0.015 [0.38]	0.045 [1.14]

^A Except as provided in 10.2, these permissible variations include out-of-roundness. These permissible variations in outside diameter apply to hot-finished seamless, welded and cold-finished seamless tubes before other fabricating operations such as upsetting, swaging, expanding, bending, or polishing

Given by the formula $P=32000T/D$

T: Specified wall thickness in mm

D: Specified outside diameter in mm

HYDROSTATIC TEST PRESSURE : (see ASTM A 450 / A 450 M-96a)

ASTM A 209 / A 209 M-2022

This specification covers several grades of minimum wall thickness, seamless carbon-molybdenum alloy steel, boiler and super heater tubes.

Outside diameter: 1/2 to 5 in (12.7 to 127 mm)

Minimum wall thickness: 0.035 to 0.500 in (0.9 to 12.7 mm)

Manufacture:

The steel shall be killed

The tubes shall be made by the seamless process and all be either hot finished or cold-finished as specifies.

All tubes shall be heat treated.

CHEMICAL REQUIREMENTS:

Grade	Designation UNS	Carbon	Manganese	Phosphorus	Sulfur	Silicon	Molybdenum
		%	%	Max%	max%	%	%
T1	-	0.10-0.20	0.30-0.80	0.025	0.025	0.10-0.50	0.44-0.65
T1a	-	0.15-0.25	0.30-0.80	0.025	0.025	0.10-0.50	0.44-0.65
T1b	-	0.14 max	0.30-0.80	0.025	0.025	0.10-0.50	0.44-0.65

MECHANICAL REQUIREMENTS:

Grade	Tensile strength min		Yield Strength min		Elongation mini in 2" or 50 mm	Hardness max	
	KSi	MPa	KSi	MPa		Brinell	Rockwell
T1	55	380	30	205	30 *	146HB	80 HRB
T1a	60	415	32	220	30 *	153 HB	81 HRB
T1b	53	365	28	195	30 *	137HB	77 HRB

*For longitudinal strip tests a deduction (1.5%) shall be made for each 1/32-in. [0.8- mm] decrease in wall thickness below 5/16 in. [8 mm] from the basic minimum elongation of the specified percentage

General requirements:

To specification ASTM A450/A450M -96a

° Tubes 0.200 in.[5.1mm] and over in wall Thickness), HBW

° Tubes less than 0.200in.[5.1mm] in wall Thickness, HBW

ASTM A 213 / A 213 M – 2023

This specification covers minimum wall-thickness, seamless ferritic and austenitic steel, boiler and superheater tubes

SIZE RANGE:

Diameter: 1/8 in. (3.2 mm) in inside diameter to 5 in. (127 mm) in outside diameter

Minimum wall thickness: 0.015 to 0.500 in. (0.4 to 12.7 mm)

MANUFACTURE:

Tubes shall be made by the seamless process and shall be either hot finished or cold finished, as specified.

All tubes shall be heat-treated.

CHEMICAL REQUIREMENTS:

Chemical Composition Limits, % ^A , for Low Alloy Steel													
Grad	USN	C	Mn	P	S	Si	Ni	Cr	Mo	Nb	N	Al	Other Elements
T9	K90941	0.15	0.30-0.60	0.025	0.025	0.25-1.00	...	8.00-10.00	0.90-1.10	...	...	...	...
T11	K11597	0.05-0.15	0.30-0.60	0.025	0.025	0.50-1.00	...	1.00-1.50	0.44-0.65	...	...	...	...
T22	K21590	0.05-0.15	0.30-0.60	0.025	0.025	0.50	...	1.90-2.60	0.87-1.13	...	...	...	...

^A Maximum, unless range or minimum is indicated.

Chemical Composition Limits, % ^A , for Austenitic and Ferritic Stainless steel													
Grade	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	N ^B	Nb ^N	W	Other Elements
TP201	S20100	0.15	5.5-7.5	0.060	0.030	1.00	16.0-18.0	3.5-5.5	...	0.25	...	...	...
TP202	S20200	0.15	7.5-10.0	0.060	0.030	1.00	17.0-19.0	4.0-6.0	...	0.25	...	...	...
XM-19	S20910	0.06	4.0-6.0	0.045	0.030	1.00	20.5-23.5	11.5-13.5	1.50-3.00	0.20-0.40	0.10-0.30	...	V 0.10-0.30
TP 304	S30400	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	...	...	...	...	...
TP304L	S30403	0.035 ^B	2.00	0.045	0.030	1.00	18.0-20.0	8.0-12.0	...	...	...	...	...
TP304H	S30409	0.04-0.10	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	...	...	...	...	...
TP309S	S30908	0.08	2.00	0.045	0.030	1.00	22.0-24.0	12.0-15.0	...	...	...	...	...

CHEMICAL REQUIREMENTS:

Chemical Composition Limits, % ^A , for Austenitic and Ferritic Stainless steel													
Grade	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	N ^B	Nb ^N	W	Other Elements
TP309H	S30909	0.04-0.10	2.00	0.045	0.030	1.00	22.0-24.0	12.0-15.0	...	...	...	...	...
TP309Cb	S30940	0.08	2.00	0.045	0.030	1.00	22.0-24.0	12.0-16.0	...	...	10xC-1.10	...	...
TP309H-Cb	S30941	0.04-0.10	2.00	0.045	0.030	1.00	22.0-24.0	12.0-16.0	...	...	10xC-1.10	...	...
TP310S	S31008	0.08	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	...	...	...	...	...
TP310H	S31009	0.04-0.10	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	...	...	...	...	...
TP310Cb	S31040	0.08	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	...	...	10xC-1.10	...	...
TP310H-Cb	S31041	0.04-0.10	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	...	...	10xC-1.10	...	...
TP316	S31600	0.08	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00	...	...	...	...
TP316L	S31603	0.035 ^D	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00	...	...	...	...
TP316H	S31609	0.04-0.10	2.00	0.045	0.030	1.00	16.0-18.0	11.0-14.0	2.00-3.00	...	...	...	...
TP316Ti	S31635	0.08	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.00-3.00	0.10	...	5X(C+N)-0.70	...
TP317	S31700	0.08	2.00	0.045	0.030	1.00	18.0-20.0	11.0-15.0	3.0-4.0	...	...	...	...
TP317L	S31703	0.035	2.00	0.045	0.030	1.00	18.0-20.0	11.0-15.0	3.0-4.0	...	...	...	...
TP321	S32100	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	...	...	5(C+N)-0.70	...
TP321H	S32109	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	...	...	4(C+N)-0.70	...
TP347	S34700	0.08	2.00	0.045	0.030	1.00	17.0-20.0	9.0-13.0	...	...	10xC-1.10	...	...

CHEMICAL REQUIREMENTS:

Chemical Composition Limits, % ^A , for Austenitic and Ferritic Stainless steel													
Grade	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	N ^B	Nb ^N	W	Other Elements
TP347H	S34709	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0	...	...	8xC-1.10	...	...
XM-15	S38100	0.08	2.00	0.030	0.030	1.50-2.50	17.0-19.0	17.5-18.5	...	...	...	...	...
Alloy 20	N08020	0.070	2.00	0.045	0.035	1.00	19.00-21.0	32.0-38.0	2.00-3.00	...	M	...	Cu 3.00-4.00
C	N08367	0.030	2.00	0.040	0.030	1.00	20.0-22.0	23.5-25.5	6.00-7.00	0.18-0.25	...	...	Cu 0.75
800	N08800	0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.0-35.0	...	...	...	...	Cu 0.75 Al 0.15-0.60 Ti 0.15-0.60 Fe [†] 39.5 min
800H	N08810	0.05-0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.0-35.0	...	...	...	...	Cu 0.75 Al 0.15-0.60 [‡] Ti 0.15-0.60 [‡] Fe [†] 39.5 min
...	N08811	0.06-0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.0-35.0	...	...	...	...	Cu 0.75 Al 0.15-0.60 Fe 39.5 Min Cu 1.00-2.00
...	N08925	0.020	1.00	0.045	0.030	0.50	19.0-21.0	24.0-26.0	6.0-7.0	0.10-0.20	...	...	Cu 0.80-1.50
...	N08926	0.020	2.00	0.030	0.010	0.50	19.0-21.0	24.0-26.0	6.0-7.0	0.15-0.25	...	...	Cu 0.50-1.50
TP444	S44400	0.03	1.00	0.040	0.030	1.00	17.5-19.5	K	1.75-2.50	0.035	...	L	...

^A Maximum, unless a range or minimum is indicated. Where ellipses (...) appear in this table, there is no minimum and analysis for the element need not be determined or reported.

^B The method of analysis for Nitrogen shall be a matter of agreement between the purchaser and the producer.

^C For these alloys, there is no common grade designation. The UNS number uniquely identifies these alloys.

^D For small diameter or thin walls, or both, where many drawing passes are required, a carbon maximum of 0.040 % is necessary in Grades TP304L, TP304LN, TP316L, and TP316LN.

[†] Iron shall be determined arithmetically by difference of 100 minus the sum of the other specified elements.

[‡] Al + Ti shall be 0.85 % min; 1.20 % max.

^K Grade TP444 shall have Ni + Cu = 1.00 max.

^L Grade TP444 shall have Ti + Nb content not less than 0.20 + 4(C+N) and not more than 0.80 %.

^M N08020 shall have an Nb + Ta content of not less than 8 times the carbon content and not more than 1.00%.

^N The terms Niobium (Nb) and Columbium (Cb) are alternate names for the same element

Tensile and Hardness Requirements

Tensile and Hardness Requirements							
Grade	UNS	Tensile strength, min, Ksi (MPa)	Yield strength, min, Ksi (MPa)	Elongation in 2 in. or 50mm min, % ^{b,c}	Hardness(A)		
					Brinell / Vickers	Rockwell	
T9	K90941	60(415)	30(205)	30	179 HBW/190 HV	89HRB	
TP304	S30400	75(515)	30(205)	35	192HBW/200HV	90HRB	
TP304L	S30403	70(485)	25(170)	35	192HBW/200HV	90HRB	
TP304H	S30409	75(515)	30(205)	35	192 HBW/200HV	90HRB	
TP309S	S30908	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP309H	S30909	75(515)	30(205)	35	192 HBW/200HV	90HRB	
TP310H	S31009	75(515)	30(205)	35	192 HBW/200HV	90HRB	
TP316	S31600	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP316L	S31603	70(485)	25(170)	35	192HBW/200HV	90 HRB	
TP316H	S31609	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP316Ti	S31635	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP317	S31700	75(515)	30(205)	34	192HBW/200HV	90 HRB	
TP317L	S31703	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP321	S32100	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP321H	S32109	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP347	S34700	75(515)	30(205)	35	192HBW/200HV	90 HRB	
TP347H	S34709	75(515)	30(205)	35	192HBW/200HV	90 HRB	
Alloy 20	N08020	80(550)	35(240)	30	217HBW	95 HRB	
800	N08800	Coldworked annealed	75(515)	30(205)	30	192HBW/200HV	90 HRB
		hot-finished annealed	65(450)	25(170)	30	192HBW/200HV	90 HRB
800 H	N08810	65(450)	25(170)	30	192HBW/200HV	90 HRB	
...	N08811	65(450)	25(170)	30	192HBW/200HV	90 HRB	
...	N08925	87(600)	43(295)	40	217HBW	95 HRB	
...	N08826	94(650)	43(295)	35	256HBW	90 HRB	
TP444	S44400	60(415)	40(275)	20	217HBW/230HV	96 HRB	

^A Max, unless a range or a minimum is speci...

^B When standard round 2 in. or 50 mm gauge length or smaller proportionally sized be specimens with gauge length equal to 4D(4 time the diameter) is used, the minimum elongation shall be 22% for all low alloy grades except T23, T24, T91, T92, T93, T115, T122, T128, and T911; and except for TP444.

^C For longitudinal strip tests, a deduction from the basic minimum elongation values 1.00% for TP444, T23, T24, T91, T92, T93, T115, T122, T128, and T911, and of 1.50% for all other low alloy grades for each 1/32-in. [0.8-mm] decrease in wall thickness below 5/16 in. [8 mm] small ne made.

ASTM A 333 / A 333 M – 2018

Seamless and welded steel pipes for low temperature service

Chemical Requirements

Grade	C max	Mn	P max	S max	Si	Ni	Cr	Cu	Al	V max	Nb ^D max	Momax	Co
1	0.30	0.40-1.06 ^A	0.025	0.025	...	...	...	...	...	...	...	...	...
3	0.19	0.31-0.64	0.025	0.025	0.18-0.37	3.18-3.82	...	...	...	...	...	...	...
4	0.12	0.50-1.05	0.025	0.025	0.08-0.37	0.47-0.98	0.44-1.01	0.40-0.75	0.04-0.30	...	...	...	...
6	0.30	0.29-1.06 ^A	0.025	0.025	0.10 min	0.40 max	0.30 max	0.40 max	...	0.08	0.02 ^D	0.12	...
7	0.19	0.90 max	0.025	0.025	0.13-0.32	2.03-2.57	...	...	...	...	...	...	...
8	0.13	0.90 max	0.025	0.025	0.13-0.32	8.40-9.60	...	...	...	...	...	...	...
9	0.20	0.40-1.06	0.025	0.025	...	1.60-2.24	...	0.75-1.25	...	...	...	...	...
10	0.20	1.15-1.50	0.035	0.015	0.10-0.35	0.25 max	0.15 max	0.15 max	0.06 max	0.12	0.05	0.05	...
11	0.10	0.60 max	0.025	0.025	0.35 max	35.0-37.0	0.50 max	...	...	...	...	0.05 max	0.50 max

^A For each reduction of 0.01 % carbon below 0.30 %, an increase of 0.05 % manganese above 1.06 % would be permitted to a maximum of 1.35 % manganese.

^B By agreement between the manufacturer and the purchaser, the limit for niobium may be increased up to 0.05 % on heat analysis and 0.06 % on product analysis.

^C The terms Niobium (Nb) and Columbium (Cb) are alternate names for the same element.

Tensile requirements

GRADE	Minimum tensile strength		Minimum yield strength Longitudinal Transverse		Minimum elongation (1)	
	ksi	MPa	ksi	MPa	Longitudinal	Transverse
1	ksi	MPa	ksi	MPa	in 2" per cent	
2	55.0	380	30.0	205	35	25
3	65.0	450	35.0	240	30	20
4	60.0	415	35.0	240	30	16.5
6	60.0	415	35.0	240	30	16.5
7	65.0	450	35.0	240	30	22
8	100.0	690	75.0	515	22	-
9	63.0	435	46.0	315	28	-
10	80.0	550	65.0	450	22	-
11	65.0	450	35.0	240	18 ^B	-

(1) Minimum elongation for walls 8 mm (5/16") and over in thickness, strip tests, and for all small sizes tested in full section.

(2) Elongation of grade 11 is for all walls

• Impact Temperature

Grades	Impact test temperature	
	° F	° C
1	-50	-45
3	-150	-100
4	-150	-100
6	-50	-45
7	-100	-75
8	-320	-195
9	-100	-75
10	-75	-60

• Impact requirements

Size of Specimen, mm	Minimum Average Notched Bar Impact Value of Each Set of Three Specimens ^A		Minimum Notched Bar Impact Value of One Specimen Only of a Set ^A	
	ft- lbf	J	ft- lbf	J
10 x 10	13	18	10	14
10 x 7.5	10	14	8	11
10 x 6.67	9	12	7	9
10 x 5	7	9	5	7
10 x 3.33	5	7	3	4
10 x 2.5	4	5	3	4

^A Straight line interpolation for intermediate values is permitted.

ASTM A335/335M-2021

Seamless ferritic alloy steel pipes for high temperature service

• Chemical requirements (%)

Grade	UNS Designation	C	Mn	P	S	Si	Cr	Mo	Other	
P5	K41545	0.15	0.30-0.60	0.025	0.025	0.50	4.00-6.00	0.45-0.65	...	
P9	K90941	0.15	0.30-0.60	0.025	0.025	0.25-1.00	8.00-10.00	0.90-1.10	...	
P11	K11597	0.05-0.15	0.30-0.60	0.025	0.025	0.50-1.00	1.00-1.50	0.44-0.65	...	
P22	K21590	0.05-0.15	0.30-0.60	0.025	0.025	0.50	1.90-2.60	0.87-1.13	...	
P91(Type1)	K91560	0.08-0.12	0.30-0.60	0.020	0.010	0.20-0.50	8.00-9.50	0.85-1.05	^A	
P91 (Type 2)	Heat	K91560	0.08-0.12	0.30-0.50	0.020	0.005	0.20-0.40	8.00-9.50	0.85-1.05	^B
	Product		0.07-0.13	0.30-0.50	0.020	0.005	0.20-0.40	8.00-9.50	0.80-1.05	^B

^A V: 0.18 – 0.25 / N: 0.030 – 0.070 / Ni: 0.40 max / Al 0.02 max / Nb 0.06 – 0.10/ Ti 0.01 max/ Zr 0.01max

^B V: Heat 0.18-0.25, Product 0.16-0.27, Ni 0.27 max(heat and product), Al 0.020 max(heat and product), N 0.035-0.070(heat and product), N/Al ratio 4.0

Nb Heat 0.06-0.10, Product 0.05-0.11, Ti 0.01 max(heat and product), Zr 0.01max(heat and product), Sn 0.010max(heat and product), Sb 0.003 max(heat and product), As 0.010max(heat and product), B 0.001max(heat and product), W 0.05 max(heat and product), Cu 0.10 max(heat and product)

• Impact Temperature

Grade	Tensile Strength, min		Yield strength, min		Elongation , min ^A	
	Ksi	MPa	Ksi	MPa	L	T
					In 2" , Per cent	
P91 (Type1&2)	85	585	60	415	20	-

^A Minimum elongation for walls 8 mm (5/16") and over in thickness, strip tests, and for all small sizes tested, in full section

ASTM A671:2020/ ASTM A 691: 2019

This specification covers electric-fusion welded steel pipe with filler metal added, fabricated from pressure vessel quality plate and suitable for high pressure service:

– A 671: at atmospheric and lower temperatures,

Size range:

	A671
Outside diameter	16in.(405mm) or larger
Wall thickness	1/4 in. (6.4mm) or greater

MANUFACTURE – CLASSES:

Section 1: the type of heat treatment performed during manufacture of the pipe:

All classes other than 10, 11, 12 and 13 shall be heat treated.

Section 9: Whether the weld is radiographically examined:

The full length of classes X1 and X2 shall be radiographically examined.

Section 8.3: Whether the pipe shall be pressure tested in accordance with specification A 530/A 530 M section 20

Grades: see page

Grade designates the type of plate used as listed in ASTM specifications in the table of pagesand

CHEMICAL COMPOSITION

Product analysis of plate:

The pipe manufacturer shall make an analysis of each mill heat of plate material. The product analysis so determined shall meet the requirements of the plate specification to which the material was ordered.

Product analyses of weld:

The pipe manufacturer shall make an analysis of finished deposited weld material from each 200 ft (61 m) for ASTM A 671 and A 691

TENSILE REQUIREMENTS:

Transverse tensile properties to the welded joint and of the base plate shall meet the mechanical test requirements of the plate specifications

• TOLERANCES

Outside diameter	± 0.5 % of the specified outside diameter based on circumferential measurement
Out-of roundness	difference between major and minor outside diameters : 1 %
Thickness	no more than 0.01 in. (0.25 mm) under the specified nominal thickness

HYDROSTATIC TEST PRESSURE : (see ASTM A 530 / A 530 M)

Given by the formula $P = 2ST / D$

• MANUFACTURE – CLASSES:

Class designations (note 1)				ASTM specification of pipe	
Class	Heat treatment on pipe	Radiography see section :	Pressure test see section :	A 671	A 691
10	none	none	none	•	•
11		9	none	•	•
12		9	8.3	•	•
13		none	8.3	•	•
20	stress relieved	none	none	•	•
21		9	none	•	•
22		9	8.3	•	•
23		none	8.3	•	•
30	normalized	none	none	•	•
31		9	none	•	•
32		9	8.3	•	•
33		none	8.3	•	•
40	normalized and tempered	none	none	•	•
41		9	none	•	•
42		9	8.3	•	•
43		none	8.3	•	•
50	quenched and tempered	none	none	•	•
51		9	none	•	•
52		9	8.3	•	•
53		none	8.3	•	•
60	normalized and precipitation heat treated	none	none	•	•
61		9	none	•	•
62		9	8.3	•	•
63		none	8.3	•	•
70	quenched and precipitation heat treated	none	none	•	•
71		9	none	•	•
72		9	8.3	•	•
73		none	8.3	•	•

Note 1 : Selection of materials should be made with attention to service temperature. For such guidance, specification A 20 / A 20 M may be consulted.

CARBON AND ALLOY STEEL
ASTM A671:2020/ ASTM A 691: 2019

Type of steel	Plate specification		Pipe specification and grade	
	ASTM N	ASTM Grade	ASTM A671	ASTM A691
plain carbon	A 285	A	–	–
	A 285	B	–	–
	A 285	C	CA 55	–
plain carbon	A 442	55	CE 55	–
	A 442	60	CE 60	–
plain carbon, killed	A 515	55	–	–
	A 515	60	CB 60	–
	A 515	65	CB 65	–
	A 515	70	CB 70	–
plain carbon, killed, fine grain	A 516	55	–	–
	A 516	60	CC 60	–
	A 516	65	CC 65	–
	A 516	70	CC 70	–
carbon-molybdenum steel	A 204	A	–	CM 65
	A 204	B	–	CM 70
	A 204	C	–	CM 75
manganese-silicon steel	A 299	–	CK 75	CMS 75
manganese-silicon steel, normalized	A 537	1	CD 70	CMSH 70
manganese-silicon steel, quenched and tempered	A 537	2	CD 80	CMSH 80
manganese-molybdenum, normalized	A 302	A	–	–
	A 302	B, C or D	–	–
manganese-molybdenum, quenched and tempered	A 533	CI-1*	–	–
	A 533	CI-2*	–	–
	A 533	CI-3*	–	–

Type of steel	Plate specification		Pipe specification and grade	
	ASTM		ASTM	
	N	Grade	A671	A691
chromium-manganese-silicon	A 202	A	-	-
	A 202	B	-	-
nickel steel	A 203	A	CF 65	-
	A 203	B	CF 70	-
	A 203	D	CF 66	-
	A 203	E	CF 71	-
	A 203	F	CF 72	-
alloy steel, quenched and tempered	A 517	A	CJ 101	-
	A 517	B	CJ 102	-
	A 517	C	CJ 103	-
	A 517	D	CJ 104	-
	A 517	E	CJ 105	-
	A 517	F	CJ 106	-
	A 517	G	CJ 107	-
	A 517	H	CJ 108	-
	A 517	J	CJ 109	-
	A 517	K	CJ 110	-
	A 517	L	CJ 111	-
	A 517	M	CJ 112	-
	A 517	P	CJ 113	-
	alloy steel, age hardening, normalized and precipitation heat treated	A 736	2	CP 65
A 736		3	CP 75	-
steel 1/2 % Cr 1/2 % Mo	A 387	2		1/2 Cr
steel 1 % Cr 1/2 % Mo	A 387	12		1 Cr
steel 1 1/4 % Cr 1/2 % Mo	A 387	11		1 1/4 Cr
steel 2 1/4 % Cr 1 % Mo	A 387	22		2 1/4 Cr
steel 3 % Cr 1 % Mo	A 387	21		3 Cr
steel 5 % Cr 1/2 % Mo	A 387	5		5 Cr
steel 9 % Cr 1 % Mo	A 387	9		9 Cr
steel 9 % Cr 1 % Mo V, Cb	A 387	91		91

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
1/8	...	10	0.405	10.29	0.049	1.24	0.19	0.28
	...	30	0.405	10.29	0.057	1.45	0.21	0.32
	STD	40	0.405	10.29	0.068	1.73	0.24	0.37
	XS	80	0.405	10.29	0.095	2.41	0.31	0.47
	...	160	0.405	10.29	0.124	3.15	0.37	0.55
	XXS	...	0.405	10.29	0.190	4.83	0.44	0.65
1/4	...	10	0.540	13.72	0.065	1.65	0.33	0.49
	...	30	0.540	13.72	0.073	1.85	0.36	0.54
	STD	40	0.540	13.72	0.088	2.24	0.43	0.63
	XS	80	0.540	13.72	0.119	3.02	0.54	0.80
	...	160	0.540	13.72	0.145	3.68	0.61	0.91
	XXS	...	0.540	13.72	0.238	6.05	0.77	1.14
3/8	...	10	0.675	17.14	0.065	1.65	0.42	0.63
	...	30	0.675	17.14	0.073	1.85	0.47	0.70
	STD	40	0.675	17.14	0.091	2.31	0.57	0.84
	XS	80	0.675	17.14	0.126	3.20	0.74	1.10
	...	160	0.675	17.14	0.158	4.01	0.87	1.30
	XXS	...	0.675	17.14	0.252	6.40	1.14	1.70
1/2	...	5	0.840	21.34	0.065	1.65	0.54	0.80
	...	10	0.840	21.34	0.083	2.11	0.67	1.00
	...	30	0.840	21.34	0.095	2.41	0.76	1.13
	STD	40	0.840	21.34	0.109	2.77	0.85	1.27
	XS	80	0.840	21.34	0.147	3.73	1.09	1.62
	...	160	0.840	21.34	0.188	4.78	1.31	1.95
3/4	...	5	1.050	26.67	0.065	1.65	0.68	1.02
	...	10	1.050	26.67	0.083	2.11	0.86	1.28
	...	30	1.050	26.67	0.095	2.41	0.97	1.44
	STD	40	1.050	26.67	0.113	2.87	1.13	1.68
	XS	80	1.050	26.67	0.154	3.91	1.48	2.19
	...	160	1.050	26.67	0.219	5.56	1.95	2.89
1	...	5	1.315	33.40	0.065	1.65	0.87	1.29
	...	10	1.315	33.40	0.109	2.77	1.41	2.09
	...	30	1.315	33.40	0.114	2.90	1.46	2.18
	STD	40	1.315	33.40	0.133	3.38	1.68	2.50
	XS	80	1.315	33.40	0.179	4.55	2.17	3.24
	...	160	1.315	33.40	0.250	6.35	2.85	4.24
1 1/4	...	5	1.660	42.16	0.065	1.65	1.11	1.65
	...	10	1.660	42.16	0.109	2.77	1.81	2.69
	...	30	1.660	42.16	0.117	2.97	1.93	2.87
	STD	40	1.660	42.16	0.140	3.56	2.27	3.39



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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
1 1/4	XS	80	1.660	42.16	0.191	4.85	3.00	4.46
	...	160	1.660	42.16	0.250	6.35	3.77	5.61
	XXS	...	1.660	42.16	0.382	9.70	5.22	7.76
1 1/2	...	5	1.900	48.26	0.065	1.65	1.28	1.90
	...	10	1.900	48.26	0.109	2.77	2.09	3.11
	...	30	1.900	48.26	0.125	3.18	2.37	3.54
	STD	40	1.900	48.26	0.145	3.68	2.72	4.05
	XS	80	1.900	48.26	0.200	5.08	3.63	5.41
	...	160	1.900	48.26	0.281	7.14	4.86	7.24
	XXS	...	1.900	48.26	0.400	10.16	6.41	9.55

2	...	5	2.375	60.32	0.065	1.65	1.61	2.39
	...	...	2.375	60.32	0.083	2.11	2.03	3.03
	...	10	2.375	60.32	0.109	2.77	2.64	3.93
	...	30	2.375	60.32	0.125	3.18	3.01	4.48
	...	...	2.375	60.32	0.141	3.58	3.37	5.01
	STD	40	2.375	60.32	0.154	3.91	3.66	5.44
	...	...	2.375	60.32	0.172	4.37	4.05	6.03
	...	...	2.375	60.32	0.188	4.78	4.40	6.55
	XS	80	2.375	60.32	0.218	5.54	5.03	7.48
	...	...	2.375	60.32	0.250	6.35	5.68	8.45
	...	...	2.375	60.32	0.281	7.14	6.29	9.36
	...	160	2.375	60.32	0.344	8.74	7.47	11.12
	XXS	...	2.375	60.32	0.436	11.07	9.04	13.45

	2 1/2	...	5	2.875	73.02	0.083	2.11	2.48	3.69
...		...	2.875	73.02	0.109	2.77	3.22	4.80
...		10	2.875	73.02	0.120	3.05	3.53	5.26
...		...	2.875	73.02	0.125	3.18	3.67	5.48
...		...	2.875	73.02	0.141	3.58	4.12	6.13
...		...	2.875	73.02	0.156	3.96	4.53	6.74
...		...	2.875	73.02	0.172	4.37	4.97	7.40
...		30	2.875	73.02	0.188	4.78	5.40	8.04
STD		40	2.875	73.02	0.203	5.16	5.80	8.64
...		...	2.875	73.02	0.216	5.49	6.14	9.14
...		...	2.875	73.02	0.250	6.35	7.02	10.44
XS		80	2.875	73.02	0.276	7.01	7.67	11.41
...		160	2.875	73.02	0.375	9.52	10.02	14.91
XXS		...	2.875	73.02	0.552	14.02	13.71	20.40
...	
3	...	5	3.500	88.90	0.083	2.11	3.03	4.52
	...	...	3.500	88.90	0.109	2.77	3.95	5.88
	...	10	3.500	88.90	0.120	3.05	4.34	6.46
	3.500	88.90	0.125	3.18	4.51	6.72
	3.500	88.90	0.141	3.58	5.06	7.53
	3.500	88.90	0.156	3.96	5.58	8.30

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
3	...	...	3.500	88.90	0.172	4.37	6.12	9.11
	...	30	3.500	88.90	0.188	4.78	6.66	9.92
	STD	40	3.500	88.90	0.216	5.49	7.58	11.29
	...	...	3.500	88.90	0.250	6.35	8.69	12.93
	...	...	3.500	88.90	0.281	7.14	9.67	14.40
	XS	80	3.500	88.90	0.300	7.62	10.26	15.27
	...	160	3.500	88.90	0.438	11.13	14.34	21.35
	XXS	...	3.500	88.90	0.600	15.24	18.60	27.68
3 1/2	...	5	4.000	101.60	0.083	2.11	3.48	5.18
	...	...	4.000	101.60	0.109	2.77	4.53	6.75
	...	10	4.000	101.60	0.120	3.05	4.98	7.41
	...	...	4.000	101.60	0.125	3.18	5.18	7.72
	...	...	4.000	101.60	0.141	3.58	5.82	8.65
	...	...	4.000	101.60	0.156	3.96	6.41	9.54
	...	...	4.000	101.60	0.172	4.37	7.04	10.48
	...	30	4.000	101.60	0.188	4.78	7.66	11.41
	STD	40	4.000	101.60	0.226	5.74	9.12	13.57
	...	...	4.000	101.60	0.250	6.35	10.02	14.92
	...	...	4.000	101.60	0.281	7.14	11.17	16.63
	XS	80	4.000	101.60	0.318	8.08	12.52	18.64
4	...	5	4.500	114.30	0.083	2.11	3.92	5.84
	...	...	4.500	114.30	0.109	2.77	5.12	7.62
	...	10	4.500	114.30	0.120	3.05	5.62	8.37
	...	...	4.500	114.30	0.125	3.18	5.85	8.71
	...	...	4.500	114.30	0.141	3.58	6.57	9.78
	...	...	4.500	114.30	0.156	3.96	7.24	10.78
	...	...	4.500	114.30	0.172	4.37	7.96	11.85
	...	30	4.500	114.30	0.188	4.78	8.67	12.91
	...	...	4.500	114.30	0.203	5.16	9.32	13.89
	...	...	4.500	114.30	0.219	5.56	10.02	14.91
	STD	40	4.500	114.30	0.237	6.02	10.80	16.08
	...	...	4.500	114.30	0.250	6.35	11.36	16.91
	...	...	4.500	114.30	0.281	7.14	12.67	18.87
	...	...	4.500	114.30	0.312	7.92	13.97	20.78
	XS	80	4.500	114.30	0.337	8.56	15.00	22.32
...	120	4.500	114.30	0.438	11.13	19.02	28.32	
...	160	4.500	114.30	0.531	13.49	22.53	33.54	
XXS	...	4.500	114.30	0.674	17.12	27.57	41.03	
5	...	...	5.563	141.30	0.083	2.11	4.86	4.86
	...	5	5.563	141.30	0.109	2.77	6.36	6.36
	5.563	141.30	0.125	3.18	7.27	7.27
	...	10	5.563	141.30	0.134	3.40	7.78	7.78
	5.563	141.30	0.156	3.96	9.02	9.02

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
5	5.563	141.30	0.188	4.78	10.80	16.09
	5.563	141.30	0.219	5.56	12.51	18.61
	STD	40	5.563	141.30	0.258	6.55	14.63	21.77
	5.563	141.30	0.281	7.14	15.87	23.62
	5.563	141.30	0.321	7.92	17.51	26.05
	5.563	141.30	0.344	8.74	19.19	28.57
	XS	80	5.563	141.30	0.375	9.52	20.80	30.94
	...	120	5.563	141.30	0.500	12.70	27.06	40.28
	...	160	5.563	141.30	0.625	15.88	32.99	49.12
	XXS	...	5.563	141.30	0.750	19.05	38.59	57.43
6	6.625	168.28	0.083	2.11	5.80	8.65
	...	5	6.625	168.28	0.109	2.77	7.59	11.31
	6.625	168.28	0.125	3.18	8.69	12.95
	...	10	6.625	168.28	0.134	3.40	9.30	13.83
	6.625	168.28	0.141	3.58	9.77	14.54
	6.625	168.28	0.156	3.96	10.79	16.05
	6.625	168.28	0.172	4.37	11.87	17.66
	6.625	168.28	0.188	4.78	12.94	19.27
	6.625	168.28	0.203	5.16	13.94	20.76
	6.625	168.28	0.219	5.56	15.00	22.31
	6.625	168.28	0.250	6.35	17.04	25.36
	STD	40	6.625	168.28	0.280	7.11	18.99	28.26
	6.625	168.28	0.312	7.92	21.06	31.32
	6.625	168.28	0.344	8.74	23.10	34.39
	6.625	168.28	0.375	9.52	25.05	37.27
	XS	80	6.625	168.28	0.432	10.97	28.60	42.56
	6.625	168.28	0.500	12.70	32.74	48.73
	...	120	6.625	168.28	0.562	14.27	36.43	54.20
	6.625	168.28	0.625	15.88	40.09	59.68
	...	160	6.625	168.28	0.719	18.26	45.39	67.56
...	...	6.625	168.28	0.750	19.05	47.10	70.11	
XXS	...	6.625	168.28	0.864	21.95	53.21	79.21	
...	...	6.625	168.28	0.875	22.22	53.78	80.04	
8	...	5	8.625	219.08	0.109	2.77	9.92	14.78
	8.625	219.08	0.125	3.18	11.36	16.93
	...	10	8.625	219.08	0.148	3.76	13.41	19.97
	8.625	219.08	0.156	3.96	14.12	21.01
	8.625	219.08	0.188	4.78	16.96	25.26
	8.625	219.08	0.203	5.16	18.28	27.22
	8.625	219.08	0.219	5.56	19.68	29.28
	...	20	8.625	219.08	0.250	6.35	22.38	33.31
	...	30	8.625	219.08	0.277	7.04	24.72	36.81

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
8	...	...	8.625	219.08	0.312	7.92	27.73	41.24
	STD	40	8.625	219.08	0.322	8.18	28.58	42.55
	...	...	8.625	219.08	0.344	8.74	30.45	45.34
	...	...	8.625	219.08	0.375	9.52	33.07	49.20
	...	60	8.625	219.08	0.406	10.31	35.67	53.08
	...	...	8.625	219.08	0.438	11.13	38.33	57.08
	XS	80	8.625	219.08	0.500	12.70	43.43	64.64
	...	...	8.625	219.08	0.562	14.27	48.44	72.08
	...	100	8.625	219.08	0.594	15.09	51.00	75.91
	...	...	8.625	219.08	0.625	15.88	53.45	79.58
	...	120	8.625	219.08	0.719	18.26	60.77	90.43
	...	...	8.625	219.08	0.750	19.05	63.14	93.97
	...	140	8.625	219.08	0.812	20.62	67.82	100.92
	XXS	...	8.625	219.08	0.875	22.22	72.49	107.88
	...	160	8.625	219.08	0.906	23.01	74.76	111.26
	...	...	8.625	219.08	1.000	25.40	81.51	121.32
	10	8.625	219.08	1.125	25.58	90.20	134.27
...		5	10.75	273.0	0.134	3.40	15.21	22.61
...		...	10.75	273.0	0.156	3.96	17.67	26.27
...		10	10.75	273.0	0.165	4.19	18.67	27.78
...		...	10.75	273.0	0.188	4.78	21.23	31.62
...		...	10.75	273.0	0.203	5.16	22.89	34.08
...		...	10.75	273.0	0.219	5.56	24.65	36.67
...		20	10.75	273.0	0.250	6.35	28.06	41.76
...		...	10.75	273.0	0.279	7.09	31.23	46.49
...		30	10.75	273.0	0.307	7.80	34.27	51.01
...		...	10.75	273.0	0.344	8.74	38.27	56.96
STD		40	10.75	273.0	0.365	9.27	40.52	60.29
...		...	10.75	273.0	0.438	11.13	48.28	71.88
XS		60	10.75	273.0	0.500	12.70	54.79	81.53
...		...	10.75	273.0	0.562	14.27	61.21	91.05
...		80	10.75	273.0	0.594	15.09	64.49	95.98
...		...	10.75	273.0	0.625	15.88	67.65	100.69
...		100	10.75	273.0	0.719	18.26	77.10	114.71
...		...	10.75	273.0	0.812	20.62	86.26	128.34
...		120	10.75	273.0	0.844	21.44	89.38	133.01
...	...	10.75	273.0	0.875	22.22	92.37	137.42	
...	...	10.75	273.0	0.938	23.83	98.39	146.43	
XXS	140	10.75	273.0	1.000	25.40	104.23	155.10	
...	160	10.75	273.0	1.125	28.58	115.75	172.27	
...	...	10.75	273.0	1.250	31.75	126.94	188.90	
...	...	10.75	273.0	1.375	34.92	137.80	205.03	
...	...	10.75	273.0	1.438	36.53	143.15	213.03	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight		
			in	mm	in	mm	lb/ft	Kg/m	
12	...	5	12.75	323.8	0.156	3.96	21.00	31.24	
	12.75	323.8	0.172	4.37	23.13	34.43	
	...	10	12.75	323.8	0.180	4.57	24.19	35.98	
	12.75	323.8	0.188	4.78	25.25	37.61	
	12.75	323.8	0.203	5.16	27.23	40.55	
	12.75	323.8	0.219	5.56	29.34	43.55	
	...	20	12.75	323.8	0.250	6.35	33.41	49.71	
	12.75	323.8	0.281	7.14	37.46	55.76	
	12.75	323.8	0.312	7.92	41.48	61.70	
	...	30	12.75	323.8	0.330	8.38	43.81	65.19	
	12.75	323.8	0.344	8.74	45.62	67.91	
	...	STD	...	12.75	323.8	0.375	9.52	49.61	73.79
	...	40	12.75	323.8	0.406	10.31	53.57	79.71	
	12.75	323.8	0.438	11.13	57.65	85.82	
	...	XS	...	12.75	323.8	0.500	12.70	65.48	97.44
	...	60	12.75	323.8	0.562	14.27	73.22	108.93	
	12.75	323.8	0.625	15.88	81.01	120.59	
	...	80	12.75	323.8	0.688	17.48	88.71	132.05	
	12.75	323.8	0.750	19.05	96.21	143.17	
	12.75	323.8	0.812	20.62	103.63	154.17	
	...	100	12.75	323.8	0.844	21.44	107.42	159.87	
	12.75	323.8	0.875	22.22	111.08	165.26	
	12.75	323.8	0.938	23.83	118.44	176.29	
	...	XXS	120	12.75	323.8	1.000	25.40	125.61	186.92
	12.75	323.8	1.062	26.97	132.69	197.43	
	...	140	12.75	323.8	1.125	28.58	139.81	208.08	
	12.75	323.8	1.250	31.75	153.67	228.68	
	...	160	12.75	323.8	1.312	33.32	160.42	238.69	
...	...	12.75	323.8	1.375	34.92	167.20	248.78		
...	...	12.75	323.8	1.500	38.10	180.39	268.44		
14	...	5	14.00	355.6	0.156	3.96	23.09	34.34	
	14.00	355.6	0.188	4.78	27.76	41.36	
	14.00	355.6	0.203	5.16	29.94	44.59	
	14.00	355.6	0.210	5.33	30.96	46.04	
	14.00	355.6	0.219	5.56	32.26	48.00	
	...	10	14.00	355.6	0.250	6.35	36.75	54.69	
	14.00	355.6	0.281	7.14	41.21	61.36	
	...	20	14.00	355.6	0.312	7.92	45.65	67.91	
	14.00	355.6	0.344	8.74	50.22	74.76	
	...	STD	30	14.00	355.6	0.375	9.52	54.62	81.25
	14.00	355.6	0.406	10.31	59.00	87.79	
	...	40	14.00	355.6	0.438	11.13	63.50	94.55	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight		
			in	mm	in	mm	lb/ft	Kg/m	
14	14.00	355.6	0.469	11.91	67.84	100.95	
	XS	...	14.00	355.6	0.500	12.70	72.16	107.40	
	14.00	355.6	0.562	14.27	80.73	120.12	
	...	60	14.00	355.6	0.594	15.09	85.13	126.72	
	14.00	355.6	0.625	15.88	89.36	133.04	
	14.00	355.6	0.688	17.48	97.91	145.76	
	...	80	14.00	355.6	0.750	19.05	106.23	158.11	
	14.00	355.6	0.812	20.62	114.48	170.34	
	14.00	355.6	0.875	22.22	122.77	182.69	
	...	100	14.00	355.6	0.938	23.83	130.98	194.98	
	14.00	355.6	1.000	25.40	138.97	206.84	
	14.00	355.6	1.062	26.97	146.88	218.58	
	...	120	14.00	355.6	1.094	27.79	150.93	224.66	
	14.00	355.6	1.125	28.58	154.84	230.49	
	...	140	14.00	355.6	1.250	31.75	170.37	253.58	
	...	160	14.00	355.6	1.406	35.71	189.29	281.72	
	14.00	355.6	2.000	50.80	256.56	381.85	
	14.00	355.6	2.125	53.98	269.76	401.52	
	14.00	355.6	2.200	55.88	277.51	413.04	
	14.00	355.6	2.500	63.50	307.34	457.43	
	16	...	5	16.00	406.4	0.165	4.19	27.93	41.56
		16.00	406.4	0.188	4.78	31.78	47.34
...		...	16.00	406.4	0.203	5.16	34.28	51.06	
...		...	16.00	406.4	0.219	5.56	36.95	54.96	
...		10	16.00	406.4	0.250	6.35	42.09	62.65	
...		...	16.00	406.4	0.281	7.14	47.22	70.30	
...		20	16.00	406.4	0.312	7.92	52.32	77.83	
...		...	16.00	406.4	0.344	8.74	57.57	85.71	
...		STD	30	16.00	406.4	0.375	9.52	62.64	93.18
...		...	16.00	406.4	0.406	10.31	67.68	100.71	
...		...	16.00	406.4	0.438	11.13	72.86	108.49	
...		...	16.00	406.4	0.469	11.91	77.87	115.87	
...		XS	40	16.00	406.4	0.500	12.70	82.85	123.31
...		...	16.00	406.4	0.562	14.27	92.75	138.00	
...		...	16.00	406.4	0.625	15.88	102.72	152.94	
...		60	16.00	406.4	0.656	16.66	107.60	160.13	
...		...	16.00	406.4	0.688	17.48	112.62	167.66	
...		...	16.00	406.4	0.750	19.05	122.27	181.98	
...	...	16.00	406.4	0.812	20.62	131.84	196.18		
...	80	16.00	406.4	0.844	21.44	136.74	203.54		
...	...	16.00	406.4	0.875	22.22	141.48	210.52		
...	...	16.00	406.4	0.938	23.83	151.03	224.83		

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight		
			in	mm	in	mm	lb/ft	Kg/m	
16	16.00	406.4	1.000	25.40	160.35	238.66	
	...	100	16.00	406.4	1.031	26.19	164.98	245.57	
	16.00	406.4	1.062	26.97	169.59	252.37	
	16.00	406.4	1.125	28.58	178.89	266.30	
	16.00	406.4	1.188	30.18	188.11	280.01	
	...	120	16.00	406.4	1.219	30.96	192.61	286.66	
	16.00	406.4	1.250	31.75	197.10	293.35	
	...	140	16.00	406.4	1.438	36.53	223.85	333.21	
	...	160	16.00	406.4	1.594	40.49	245.48	365.38	
	16.00	406.4	1.750	44.45	266.58	396.77	
18	...	5	18.00	457.2	0.165	4.19	31.46	46.81	
	18.00	457.2	0.188	4.78	35.80	53.33	
	18.00	457.2	0.219	5.56	41.63	61.93	
	...	10	18.00	457.2	0.250	6.35	47.44	70.60	
	18.00	457.2	0.281	7.14	53.23	79.25	
	...	20	18.00	457.2	0.312	7.92	58.99	87.75	
	18.00	457.2	0.344	8.74	64.93	96.66	
	...	STD	...	18.00	457.2	0.375	9.52	70.65	105.11
	18.00	457.2	0.406	10.31	76.36	113.63	
	...	30	18.00	457.2	0.438	11.13	82.23	122.44	
	18.00	457.2	0.469	11.91	87.89	130.79	
	...	XS	...	18.00	457.2	0.500	12.70	93.54	139.22
	18.00	457.2	0.562	14.27	104.76	155.88	
	18.00	457.2	0.625	15.88	116.09	172.83	
	18.00	457.2	0.688	17.48	127.32	189.56	
	...	60	18.00	457.2	0.750	19.05	138.30	205.84	
	18.00	457.2	0.812	20.62	149.20	222.01	
	18.00	457.2	0.875	22.22	160.18	238.36	
	...	80	18.00	457.2	0.938	23.83	171.08	254.68	
	18.00	457.2	1.000	25.40	181.73	270.48	
	18.00	457.2	1.062	26.97	192.29	286.15	
	18.00	457.2	1.125	28.58	202.94	302.10	
	...	100	18.00	457.2	1.156	29.36	208.15	309.78	
	18.00	457.2	1.188	30.18	213.51	317.82	
	18.00	457.2	1.250	31.75	223.82	333.13	
	...	120	18.00	457.2	1.375	34.92	244.37	363.66	
...	...	18.00	457.2	1.562	39.67	274.48	408.48		
...	140	18.00	457.2	1.562	39.67	274.48	408.48		
...	160	18.00	457.2	1.781	45.24	308.79	459.62		
20	...	5	20.00	508.0	0.188	4.78	39.82	59.32	
	20.00	508.0	0.219	5.56	46.31	68.89	
	...	10	20.00	508.0	0.250	6.35	52.78	78.56	
	20.00	508.0	0.281	7.14	59.23	88.19	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight		
			in	mm	in	mm	lb/ft	Kg/m	
20	20.00	508.0	0.312	7.92	65.66	97.68	
	20.00	508.0	0.344	8.74	72.28	107.61	
	...	STD	20	20.00	508.0	0.375	9.52	78.67	117.03
	20.00	508.0	0.406	10.31	85.04	126.54
	20.00	508.0	0.438	11.13	91.59	136.38
	20.00	508.0	0.469	11.91	97.92	145.71
	30	20.00	508.0	0.500	12.70	104.23	155.13
	20.00	508.0	0.562	14.27	116.78	173.75
	40	20.00	508.0	0.594	15.09	123.23	183.43
	20.00	508.0	0.625	15.88	129.45	192.73
	20.00	508.0	0.688	17.48	142.03	211.45
	20.00	508.0	0.750	19.05	154.34	229.71
	60	20.00	508.0	0.812	20.62	166.56	247.84
	20.00	508.0	0.875	22.22	178.89	266.20
	20.00	508.0	0.938	23.83	191.14	284.54
	20.00	508.0	1.000	25.40	203.11	302.30
	80	20.00	508.0	1.031	26.19	209.06	311.19
	20.00	508.0	1.062	26.97	215.00	319.94
	20.00	508.0	1.125	28.58	227.0	337.91
	20.00	508.0	1.188	30.18	238.91	355.63
22	22.00	558.8	0.188	4.78	43.84	65.31	
	22.00	558.8	0.219	5.56	50.99	75.86	
	22.00	558.8	0.250	6.35	58.13	86.51	
	22.00	558.8	0.281	7.14	65.24	97.14	
	22.00	558.8	0.312	7.92	72.34	107.60	
	22.00	558.8	0.344	8.74	79.64	118.56	
	...	STD	20	22.00	558.8	0.375	9.52	86.69	128.96
	22.00	558.8	0.406	10.31	93.72	139.46
	22.00	558.8	0.438	11.13	100.96	150.33
	22.00	558.8	0.469	11.91	107.95	160.63
	...	XS	30	22.00	558.8	0.500	12.70	114.92	171.04
	22.00	558.8	0.562	14.27	128.79	191.63
	22.00	558.8	0.625	15.88	142.81	212.62
	22.00	558.8	0.688	17.48	156.74	233.35
	22.00	558.8	0.750	19.05	170.37	253.58

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
22	22.00	558.8	0.812	20.62	183.92	273.68
	...	60	22.00	558.8	0.875	22.22	197.60	294.03
	22.00	558.8	0.938	23.83	211.19	313.39
	22.00	558.8	1.000	25.40	224.49	334.12
	22.00	558.8	1.062	26.97	237.70	353.73
	...	80	22.00	558.8	1.125	28.58	251.05	373.71
	22.00	558.8	1.188	30.18	264.31	393.44
	22.00	558.8	1.250	31.75	277.27	412.68
	22.00	558.8	1.312	33.32	290.15	431.80
	...	100	22.00	558.8	1.375	34.92	303.16	451.15
	22.00	558.8	1.438	36.53	316.08	470.50
	22.00	558.8	1.500	38.10	328.72	489.25
	...	120	22.00	558.8	1.625	41.28	353.94	526.85
	...	140	22.00	558.8	1.875	47.62	403.38	600.32
	...	160	22.00	558.8	2.125	53.98	451.49	672.03
	24	...	5	24.00	609.6	0.218	5.54	55.42	82.53
...		10	24.00	609.6	0.250	6.35	63.47	94.47
...		...	24.00	609.6	0.281	7.14	71.25	106.08
...		...	24.00	609.6	0.312	7.92	79.01	117.52
...		...	24.00	609.6	0.344	8.74	86.99	129.51
STD		20	24.00	609.6	0.375	9.52	94.71	140.89
...		...	24.00	609.6	0.406	10.31	102.40	152.38
...		...	24.00	609.6	0.438	11.13	110.32	164.27
...		...	24.00	609.6	0.469	11.91	117.98	175.55
XS		...	24.00	609.6	0.500	12.70	125.61	186.95
...		30	24.00	609.6	0.562	14.27	140.81	209.51
...		...	24.00	609.6	0.625	15.88	156.17	232.52
...		40	24.00	609.6	0.688	17.48	171.45	255.25
...		...	24.00	609.6	0.750	19.05	186.41	277.44
...		...	24.00	609.6	0.812	20.62	201.28	299.51
...		...	24.00	609.6	0.875	22.22	216.31	321.87
...		...	24.00	609.6	0.938	23.83	231.25	344.25
...		60	24.00	609.6	0.969	24.61	238.57	355.04
...		...	24.00	609.6	1.000	25.40	245.87	365.94
...		...	24.00	609.6	1.062	26.97	260.41	387.52
...		...	24.00	609.6	1.125	28.58	275.10	409.52
...		...	24.00	609.6	1.188	30.18	289.71	431.25
...		80	24.00	609.6	1.219	30.96	296.86	441.80
...		...	24.00	609.6	1.250	31.75	304.00	452.46
...		...	24.00	609.6	1.312	33.32	318.21	473.54
...		...	24.00	609.6	1.375	34.92	332.56	494.90
...	...	24.00	609.6	1.438	36.53	346.83	516.27	
...	...	24.00	609.6	1.500	38.10	360.79	536.98	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
22	22.00	558.8	0.812	20.62	183.92	273.68
	...	60	22.00	558.8	0.875	22.22	197.60	294.03
	22.00	558.8	0.938	23.83	211.19	313.39
	22.00	558.8	1.000	25.40	224.49	334.12
	22.00	558.8	1.062	26.97	237.70	353.73
	...	80	22.00	558.8	1.125	28.58	251.05	373.71
	22.00	558.8	1.188	30.18	264.31	393.44
	22.00	558.8	1.250	31.75	277.27	412.68
	22.00	558.8	1.312	33.32	290.15	431.80
	...	100	22.00	558.8	1.375	34.92	303.16	451.15
	22.00	558.8	1.438	36.53	316.08	470.50
	22.00	558.8	1.500	38.10	328.72	489.25
	...	120	22.00	558.8	1.625	41.28	353.94	526.85
	...	140	22.00	558.8	1.875	47.62	403.38	600.32
	...	160	22.00	558.8	2.125	53.98	451.49	672.03
	24	...	5	24.00	609.6	0.218	5.54	55.42
...		10	24.00	609.6	0.250	6.35	63.47	94.47
...		...	24.00	609.6	0.281	7.14	71.25	106.08
...		...	24.00	609.6	0.312	7.92	79.01	117.52
...		...	24.00	609.6	0.344	8.74	86.99	129.51
STD		20	24.00	609.6	0.375	9.52	94.71	140.89
...		...	24.00	609.6	0.406	10.31	102.40	152.38
...		...	24.00	609.6	0.438	11.13	110.32	164.27
...		...	24.00	609.6	0.469	11.91	117.98	175.55
XS		...	24.00	609.6	0.500	12.70	125.61	186.95
...		30	24.00	609.6	0.562	14.27	140.81	209.51
...		...	24.00	609.6	0.625	15.88	156.17	232.52
...		40	24.00	609.6	0.688	17.48	171.45	255.25
...		...	24.00	609.6	0.750	19.05	186.41	277.44
...		...	24.00	609.6	0.812	20.62	201.28	299.51
...		...	24.00	609.6	0.875	22.22	216.31	321.87
...		...	24.00	609.6	0.938	23.83	231.25	344.25
...		60	24.00	609.6	0.969	24.61	238.57	355.04
...		...	24.00	609.6	1.000	25.40	245.87	365.94
...		...	24.00	609.6	1.062	26.97	260.41	387.52
...		...	24.00	609.6	1.125	28.58	275.10	409.52
...		...	24.00	609.6	1.188	30.18	289.71	431.25
...		80	24.00	609.6	1.219	30.96	296.86	441.80
...		...	24.00	609.6	1.250	31.75	304.00	452.46
...		...	24.00	609.6	1.312	33.32	318.21	473.54
...		...	24.00	609.6	1.375	34.92	332.56	494.90
...	...	24.00	609.6	1.438	36.53	346.83	516.27	
...	...	24.00	609.6	1.500	38.10	360.79	536.98	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight		
			in	mm	in	mm	lb/ft	Kg/m	
24	...	100	24.00	609.6	1.531	38.89	367.74	547.36	
	24.00	609.6	1.562	39.67	374.66	557.57	
	...	120	24.00	609.6	1.812	46.02	429.79	639.62	
	...	140	24.00	609.6	2.062	52.37	483.57	719.68	
	...	160	24.00	609.6	2.344	59.54	542.64	807.68	
26	26.00	660.4	0.250	6.35	68.82	102.42	
	26.00	660.4	0.281	7.14	77.26	115.03	
	...	10	26.00	660.4	0.312	7.92	85.68	127.44	
	26.00	660.4	0.344	8.74	94.35	140.46	
	...	STD	26.00	660.4	0.375	9.52	102.72	152.81	
	26.00	660.4	0.406	10.31	111.08	165.29	
	26.00	660.4	0.438	11.13	119.69	178.21	
	26.00	660.4	0.469	11.91	128.00	190.47	
	...	XS	20	26.00	660.4	0.500	12.70	136.30	202.86
	26.00	660.4	0.562	14.27	152.83	227.39	
	26.00	660.4	0.625	15.88	169.54	252.41	
	26.00	660.4	0.688	17.48	186.16	277.15	
	26.00	660.4	0.750	19.05	202.44	301.31	
	26.00	660.4	0.812	20.62	218.64	325.34	
	26.00	660.4	0.875	22.22	235.01	349.71	
	26.00	660.4	0.938	23.84	251.30	374.10	
	26.00	660.4	1.000	25.40	267.25	397.77	
	28	28.00	711.2	0.250	6.35	74.16	110.38
		28.00	711.2	0.281	7.14	83.26	123.97
		...	10	28.00	711.2	0.312	7.92	92.35	137.36
...		...	28.00	711.2	0.344	8.74	101.70	151.41	
...		STD	28.00	711.2	0.375	9.52	110.74	164.74	
...		...	28.00	711.2	0.406	10.31	119.76	178.21	
...		...	28.00	711.2	0.438	11.13	129.05	192.16	
...		...	28.00	711.2	0.469	11.91	138.03	205.39	
...		XS	20	28.00	711.2	0.500	12.70	146.99	218.77
...		...	28.00	711.2	0.562	14.27	164.84	245.26	
...		30	28.00	711.2	0.625	15.88	182.90	272.30	
...		...	28.00	711.2	0.688	17.48	200.87	299.05	
...		...	28.00	711.2	0.750	19.05	218.48	325.17	
...		...	28.00	711.2	0.812	20.62	236.00	351.17	
...		...	28.00	711.2	0.875	22.22	253.72	377.55	
...		...	28.00	711.2	0.938	23.83	271.36	403.96	
...		...	28.00	711.2	1.000	25.40	288.63	429.59	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight		
			in	mm	in	mm	lb/ft	Kg/m	
28	28.00	711.2	1.062	26.97	305.82	455.10	
30	...	5	30.00	762.0	0.250	6.35	79.51	118.34	
	30.00	762.0	0.281	7.14	89.27	132.92	
	...	10	30.00	762.0	0.312	7.92	99.02	147.29	
	30.00	762.0	0.344	8.74	109.06	162.36	
	...	STD	30.00	762.0	0.375	9.52	118.76	176.67	
	30.00	762.0	0.406	10.31	128.44	191.12	
	30.00	762.0	0.438	11.13	138.42	206.10	
	30.00	762.0	0.469	11.91	148.06	220.32	
	...	XS	20	30.00	762.0	0.500	12.70	157.68	234.68
	30.00	762.0	0.562	14.27	176.86	263.14	
	...	30	30.00	762.0	0.625	15.88	196.26	292.20	
	30.00	762.0	0.688	17.48	215.58	320.95	
	30.00	762.0	0.750	19.05	234.51	349.04	
	30.00	762.0	0.812	20.62	253.36	377.01	
	30.00	762.0	0.875	22.22	272.43	405.38	
	30.00	762.0	0.938	23.83	291.41	433.81	
	30.00	762.0	1.000	25.40	310.01	461.41	
	30.00	762.0	1.062	26.97	328.53	488.88	
	30.00	762.0	1.125	28.58	347.26	516.93	
	30.00	762.0	1.188	30.18	365.90	544.68	
...	...	30.00	762.0	1.250	31.75	384.17	571.79		
32	32.00	813	0.250	6.35	84.85	126.32	
	32.00	813	0.281	7.14	95.28	141.90	
	...	10	32.00	813	0.312	7.92	105.69	157.25	
	32.00	813	0.344	8.74	116.41	173.35	
	...	STD	32.00	813	0.375	9.52	126.78	188.64	
	32.00	813	0.406	10.31	137.12	204.09	
	32.00	813	0.438	11.13	147.78	220.10	
	32.00	813	0.469	11.91	158.08	235.29	
	...	XS	20	32.00	813	0.500	12.70	168.37	250.65
	32.00	813	0.562	14.27	188.87	281.09	
	...	30	32.00	813	0.625	15.88	209.62	312.17	
	...	40	32.00	813	0.688	17.48	230.29	342.94	
	32.00	813	0.750	19.05	250.55	373.00	
	32.00	813	0.812	20.62	270.72	402.94	
	32.00	813	0.875	22.22	291.14	433.33	
	32.00	813	0.938	23.83	311.47	463.78	
	32.00	813	1.000	25.40	331.39	493.35	
	32.00	813	1.062	26.97	351.23	522.80	
	32.00	813	1.125	28.58	371.31	552.88	
	32.00	813	1.188	30.18	391.30	582.64	
...	...	32.00	813	1.250	31.75	410.90	611.72		

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
34	34.0	864	0.250	6.35	90.20	134.31
	34.0	864	0.281	7.14	101.29	150.88
	...	10	34.0	864	0.312	7.92	112.36	167.21
	34.0	864	0.344	8.74	123.77	184.34
	STD	...	34.0	864	0.375	9.52	134.79	200.61
	34.0	864	0.406	10.31	145.80	217.06
	34.0	864	0.438	11.13	157.14	234.10
	34.0	864	0.469	11.91	168.11	250.27
	XS	20	34.0	864	0.500	12.70	179.06	266.63
	34.0	864	0.562	14.27	200.89	299.04
	...	30	34.0	864	0.625	15.88	222.99	332.14
	...	40	34.0	864	0.688	17.48	245.00	364.92
	34.0	864	0.750	19.05	266.58	396.96
	34.0	864	0.812	20.62	288.08	428.88
	34.0	864	0.875	22.22	309.84	461.28
	34.0	864	0.938	23.83	331.52	493.75
	34.0	864	1.000	25.40	352.77	525.30
	34.0	864	1.062	26.97	373.94	556.73
	34.0	864	1.125	28.58	395.36	588.83
	34.0	864	1.188	30.18	416.70	620.60
36	36.0	914	0.250	6.35	95.54	142.14
	36.0	914	0.281	7.14	107.30	159.68
	...	10	36.0	914	0.312	7.92	119.03	176.97
	36.0	914	0.344	8.74	131.12	195.12
	STD	...	36.0	914	0.375	9.52	142.81	212.35
	36.0	914	0.406	10.31	154.48	229.77
	36.0	914	0.438	11.13	166.51	247.82
	36.0	914	0.469	11.91	178.14	264.96
	XS	20	36.0	914	0.500	12.70	189.75	282.29
	36.0	914	0.562	14.27	212.90	316.63
	...	30	36.0	914	0.625	15.88	236.35	351.73
	36.0	914	0.688	17.48	259.71	386.47
	...	40	36.0	914	0.750	19.05	282.62	420.45
	36.0	914	0.812	20.62	305.44	454.30
	36.0	914	0.875	22.22	328.55	488.68
	36.0	914	0.938	23.83	351.57	523.14
	36.0	914	1.000	25.40	374.15	556.62
	36.0	914	1.062	26.97	396.64	589.98
	36.0	914	1.125	28.58	419.42	624.07
	36.0	914	1.188	30.18	442.10	657.81
...	...	36.0	914	1.250	31.75	464.35	690.80	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
38	38.0	965	0.312	7.92	125.70	186.94
	38.0	965	0.344	8.74	138.47	206.11
	STD	...	38.0	965	0.375	9.52	150.83	224.33
	38.0	965	0.406	10.31	163.16	242.74
	38.0	965	0.438	11.13	175.87	261.82
	38.0	965	0.469	11.91	188.17	279.94
	XS	...	38.0	965	0.500	12.70	200.44	298.26
	38.0	965	0.562	14.27	224.92	334.58
	38.0	965	0.625	15.88	249.71	371.70
	38.0	965	0.688	17.48	274.42	408.46
	38.0	965	0.750	19.05	298.65	444.41
	38.0	965	0.812	20.62	322.80	480.24
	38.0	965	0.875	22.22	347.26	516.62
	38.0	965	0.938	23.83	371.63	553.11
	38.0	965	1.000	25.40	395.53	588.57
	38.0	965	1.062	26.97	419.35	623.90
	38.0	965	1.125	28.58	443.47	660.01
	38.0	965	1.188	30.18	469.50	695.77
	38.0	965	1.250	31.75	491.07	730.74
	40	40.0	1016	0.312	7.92	132.37	196.90
...		...	40.0	1016	0.344	8.74	145.83	217.11
STD		...	40.0	1016	0.375	9.52	158.85	236.30
...		...	40.0	1016	0.406	10.31	171.84	255.71
...		...	40.0	1016	0.438	11.13	185.24	275.82
...		...	40.0	1016	0.469	11.91	198.19	294.92
XS		...	40.0	1016	0.500	12.70	211.13	314.23
...		...	40.0	1016	0.562	14.27	236.93	352.53
...		...	40.0	1016	0.625	15.88	263.07	391.67
...		...	40.0	1016	0.688	17.48	289.13	430.45
...		...	40.0	1016	0.750	19.05	314.69	468.37
...		...	40.0	1016	0.812	20.62	340.16	506.17
...		...	40.0	1016	0.875	22.22	365.97	544.57
...		...	40.0	1016	0.938	23.83	391.68	583.08
42	42.0	1067	1.000	25.40	416.91	620.51
	42.0	1067	1.062	26.97	442.05	657.82
	42.0	1067	1.125	28.58	467.52	695.96
	42.0	1067	1.188	30.18	492.90	733.73
	42.0	1067	1.250	31.75	517.80	770.67
	STD	...	42.0	1067	0.344	8.74	153.18	228.10
	42.0	1067	0.375	9.52	166.86	248.27
	42.0	1067	0.406	10.31	180.52	268.67
...	...	42.0	1067	0.438	11.13	194.60	289.82	

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
42	42.0	1067	0.469	11.91	208.22	309.90
	XS	...	42.0	1067	0.500	12.70	221.82	330.21
	42.0	1067	0.562	14.27	248.95	370.48
	42.0	1067	0.625	15.88	276.44	411.64
	42.0	1067	0.688	17.48	303.84	452.43
	42.0	1067	0.750	19.05	330.72	492.33
	42.0	1067	0.812	20.62	357.52	532.11
	42.0	1067	0.875	22.22	384.67	572.52
	42.0	1067	0.938	23.83	411.74	613.05
	42.0	1067	1.000	25.40	438.29	652.46
	42.0	1067	1.062	26.97	464.76	691.75
	42.0	1067	1.125	28.58	491.57	731.91
	42.0	1067	1.188	30.18	518.30	771.69
	42.0	1067	1.250	31.75	544.52	810.60
44	44.0	1118	0.344	8.74	160.54	239.09
	STD	...	44.0	1118	0.375	9.52	174.88	260.25
	44.0	1118	0.406	10.31	189.20	281.64
	44.0	1118	0.438	11.13	203.97	303.82
	44.0	1118	0.469	11.91	218.25	324.88
	XS	...	44.0	1118	0.500	12.70	232.51	346.18
	44.0	1118	0.562	14.27	260.97	388.42
	44.0	1118	0.625	15.88	289.80	431.62
	44.0	1118	0.688	17.48	318.55	474.42
	44.0	1118	0.750	19.05	346.76	516.29
	44.0	1118	0.812	20.62	374.88	558.04
	44.0	1118	0.875	22.22	403.38	600.46
	44.0	1118	0.938	23.83	431.79	643.03
	44.0	1118	1.000	25.40	459.67	684.41
	44.0	1118	1.062	26.97	487.47	725.67
	44.0	1118	1.125	28.58	515.63	767.85
	44.0	1118	1.188	30.18	543.70	809.65
	44.0	1118	1.250	31.75	571.25	850.54
46	46.0	1168	0.344	8.74	167.89	249.87
	STD	...	46.0	1168	0.375	9.52	182.90	271.99
	46.0	1168	0.406	10.31	197.88	294.35
	46.0	1168	0.438	11.13	213.33	317.54
	46.0	1168	0.469	11.91	228.27	339.56
	XS	...	46.0	1168	0.500	12.70	243.20	361.84
	46.0	1168	0.562	14.27	272.98	406.02
	46.0	1168	0.625	15.88	303.16	451.20
	46.0	1168	0.688	17.48	333.26	495.97
	46.0	1168	0.750	19.05	362.79	539.78
	46.0	1168	0.812	20.62	392.24	583.47

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
46	46.0	1168	0.875	22.22	422.09	627.86
	46.0	1168	0.938	23.83	451.85	672.41
	46.0	1168	1.000	25.40	481.05	715.73
	46.0	1168	1.062	26.97	510.17	758.92
	46.0	1168	1.125	28.58	539.68	803.09
	46.0	1168	1.188	30.18	569.10	846.86
	46.0	1168	1.250	31.75	597.97	889.69
	46.0	1168	1.312	33.33	627.20	932.52
48	48.0	1219	0.344	8.74	175.25	260.86
	STD	...	48.0	1219	0.375	9.52	190.92	283.96
	48.0	1219	0.406	10.31	206.56	307.32
	48.0	1219	0.438	11.13	222.70	331.54
	48.0	1219	0.469	11.91	238.30	354.54
	XS	...	48.0	1219	0.500	12.70	253.89	377.81
	48.0	1219	0.562	14.27	285.00	423.97
	48.0	1219	0.625	15.88	316.52	471.17
	48.0	1219	0.688	17.48	347.97	517.95
	48.0	1219	0.750	19.05	378.83	563.74
	48.0	1219	0.812	20.62	409.61	609.40
	48.0	1219	0.938	23.83	471.90	702.38
	48.0	1219	0.875	22.22	440.80	655.81
	48.0	1219	1.000	25.40	502.43	747.67
...	...	48.0	1219	1.062	26.97	532.88	792.84	
...	...	48.0	1219	1.125	28.58	563.73	839.04	
...	...	48.0	1219	1.188	30.18	594.50	884.82	
...	...	48.0	1219	1.250	31.75	624.70	929.62	
52	52.0	1321	0.375	9.52	206.95	307.91
	52.0	1321	0.406	10.31	223.93	333.26
	52.0	1321	0.438	11.13	241.42	359.54
	52.0	1321	0.469	11.91	258.36	384.50
	52.0	1321	0.500	12.70	275.27	409.76
	52.0	1321	0.562	14.27	309.03	459.86
	52.0	1321	0.625	15.88	343.25	511.12
	52.0	1321	0.688	17.48	377.39	561.93
	52.0	1321	0.750	19.05	410.90	611.66
	52.0	1321	0.875	22.22	478.21	711.70
	52.0	1321	0.812	20.62	444.33	661.27
	52.0	1321	0.938	23.83	512.01	769.33
	52.0	1321	1.000	25.40	545.19	811.57
	52.0	1321	1.062	26.97	578.29	860.69
	52.0	1321	1.125	28.58	611.84	910.93
	52.0	1321	1.188	30.18	645.30	960.74
	52.0	1321	1.250	31.75	678.15	1009.49
	56	56.0	1422	0.375	9.25	222.99
...		...	56.0	1422	0.406	10.31	241.29	358.94

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
56	56.0	1422	0.438	11.13	260.15	387.26
	56.0	1422	0.469	11.91	278.41	414.17
	56.0	1422	0.500	12.70	296.65	441.39
	56.0	1422	0.562	14.27	333.06	495.41
	56.0	1422	0.625	15.88	369.97	550.67
	56.0	1422	0.688	17.48	406.80	605.46
	56.0	1422	0.750	19.05	442.97	659.11
	56.0	1422	0.812	20.62	479.05	712.63
	56.0	1422	0.875	22.22	515.63	767.05
	56.0	1422	0.938	23.83	552.12	821.68
	56.0	1422	1.000	25.40	587.95	874.83
	56.0	1422	1.062	26.97	623.70	927.86
	56.0	1422	1.125	28.58	659.94	982.12
	56.0	1422	1.188	30.18	696.10	1035.91
...	...	56.0	1422	1.250	31.75	731.60	1088.57	
60	60.0	1524	0.375	9.52	239.02	355.57
	60.0	1524	0.406	10.31	258.65	384.87
	60.0	1524	0.438	11.13	278.88	415.26
	60.0	1524	0.469	11.91	298.47	444.13
	60.0	1524	0.500	12.70	318.03	473.34
	60.0	1524	0.562	14.27	357.09	531.30
	60.0	1524	0.625	15.88	396.70	590.62
	60.0	1524	0.688	17.48	436.22	649.44
	60.0	1524	0.750	19.05	475.04	707.03
	60.0	1524	0.812	20.62	513.77	764.50
	60.0	1524	0.875	22.22	553.04	822.94
	60.0	1524	0.938	23.83	592.23	881.63
	60.0	1524	1.000	25.40	630.71	938.73
	60.0	1524	1.062	26.97	669.11	995.71
...	...	60.0	1524	1.125	28.58	708.05	1054.01	
...	...	60.0	1524	1.188	30.18	746.90	1111.83	
...	...	60.0	1524	1.250	31.75	785.05	1168.44	
64	64.0	1626	0.375	9.52	255.06	379.51
	64.0	1626	0.406	10.31	276.01	410.81
	64.0	1626	0.438	11.13	297.61	443.25
	64.0	1626	0.500	12.70	339.41	505.29
	64.0	1626	0.562	14.27	381.12	567.20
	64.0	1626	0.469	11.91	318.52	474.09
	64.0	1626	0.625	15.88	423.42	630.56
	64.0	1626	0.688	17.48	465.64	693.41
	64.0	1626	0.750	19.05	507.11	754.95
	64.0	1626	0.812	20.62	548.49	816.37
	64.0	1626	0.875	22.22	590.46	878.84

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
64	64.0	1626	0.938	23.83	632.34	941.57
	64.0	1626	1.000	25.40	673.47	1002.62
	64.0	1626	1.062	26.97	714.52	1063.55
	64.0	1626	1.125	28.58	756.15	1125.90
	64.0	1626	1.188	30.18	797.69	1187.74
	64.0	1626	1.250	31.75	838.50	1248.30
	64.0	1626	1.312	33.33	880.00	1310.00
68	68.0	1727	0.469	11.91	338.57	503.75
	68.0	1727	0.500	12.70	360.79	536.92
	68.0	1727	0.562	14.27	405.15	602.74
	68.0	1727	0.625	15.88	450.15	670.12
	68.0	1727	0.688	17.48	495.06	736.95
	68.0	1727	0.750	19.05	539.18	802.40
	68.0	1727	0.812	20.62	583.21	867.73
	68.0	1727	0.875	22.22	627.87	934.18
	68.0	1727	0.938	23.83	672.45	1000.92
	68.0	1727	1.000	25.40	716.23	1065.89
	68.0	1727	1.062	26.97	759.93	1130.73
	68.0	1727	1.125	28.58	804.26	1197.09
	68.0	1727	1.188	30.18	848.49	1262.92
	68.0	1727	1.250	31.75	891.95	1327.39
72	72.0	1829	0.500	12.70	382.17	568.87
	72.0	1829	0.562	14.27	429.18	638.64
	72.0	1829	0.625	15.88	476.87	710.06
	72.0	1829	0.688	17.48	524.48	780.92
	72.0	1829	0.750	19.05	571.25	850.32
	72.0	1829	0.812	20.62	617.93	919.60
	72.0	1829	0.875	22.22	665.29	990.08
	72.0	1829	0.938	23.83	712.55	1060.87
	72.0	1829	1.000	25.40	758.99	1129.78
	72.0	1829	1.062	26.97	805.34	1198.57
	72.0	1829	1.125	28.58	852.36	1268.98
	72.0	1829	1.188	30.18	899.29	1338.83
	72.0	1829	1.250	31.75	945.40	1407.25
	72.0	1829	1.312	33.33	992.00	1477.00
76	76.0	1930	0.500	12.70	403.55	600.50
	76.0	1930	0.562	14.27	453.21	674.18
	76.0	1930	0.625	15.88	503.60	749.62
	76.0	1930	0.688	17.48	553.90	824.45
	76.0	1930	0.750	19.05	603.32	897.77
	76.0	1930	0.812	20.62	652.65	970.96
	76.0	1930	0.875	22.22	702.70	1045.42
	76.0	1930	0.938	23.83	752.66	1120.22
	76.0	1930	1.000	25.40	801.75	1193.05
	76.0	1930	1.062	26.97	850.75	1265.74

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• dimensions and weights of steel pipe

NPS	Identification	Schedule No.	Outside diameter		Wall thickness		Weight	
			in	mm	in	mm	lb/ft	Kg/m
76	76.0	1930	1.125	28.58	900.47	1340.17
	76.0	1930	1.188	30.18	950.09	1414.01
	76.0	1930	1.250	31.75	998.85	1486.33
80	80.0	2032	0.562	14.27	477.25	710.08
	80.0	2032	0.625	15.88	530.32	789.56
	80.0	2032	0.688	17.48	583.32	868.43
	80.0	2032	0.750	19.05	635.39	945.69
	80.0	2032	0.812	20.62	687.37	1022.83
	80.0	2032	0.875	22.22	740.12	1101.32
	80.0	2032	0.938	23.83	792.77	1180.17
	80.0	2032	1.000	25.40	844.51	1256.94
	80.0	2032	1.062	26.97	896.17	1333.59
	80.0	2032	1.125	28.58	948.57	1412.06
	80.0	2032	1.188	30.18	1000.89	1489.92
	80.0	2032	1.250	31.75	1052.30	1566.20

API 5L-2018 - specification PSL1

Steel Grade (Steel Name)	Chemical Composition for PSL 1 Pipe with $t \leq 25.0\text{mm}(0.984\text{ in})$						
	C max(b)	Mn max(b)	P max	S max	V max	Nb max	Ti max
B	0.28	1.20	0.030	0.030	C, d	C, d	d
X42	0.28	1.30	0.030	0.030	d	d	d
X46, X52, X56	0.28	1.40	0.030	0.030	d	d	d
X60, X65	0.28(e)	1.40(e)	0.030	0.030	f	f	f
X70	0.28(e)	1.40(e)	0.030	0.030	f	f	f
Welded Pipe							
B	0.26	1.20	0.030	0.030	C,d	C,d	d
X42	0.26	1.30	0.030	0.030	d	d	d
X46, X52, X56	0.26	1.40	0.030	0.030	d	d	d
X65	0.26(e)	1.45(e)	0.030	0.030	f	f	f
X70	0.26(e)	1.65(e)	0.030	0.030	f	f	f

a $Cu \leq 0.50\%$; $Ni \leq 0.50\%$; $Cr \leq 0.50\%$ and $Mo \leq 0.15\%$.

b For each reduction of 0.01 % below the specified maximum concentration for carbon, an increase of 0.05 % above the specified maximum concentration for Mn is permissible, up to a maximum of 1.65 % for grades $\geq L245$ or B, but $\leq X52$; up to a maximum of 1.75 % for grades $> X52$, but $< X70$; and up to a maximum of 2.00 % for Grade X70.

c Unless otherwise agree. $Nb+V \leq 0.06\%$

d $Nb + V + Ti \leq 0.15\%$

e Unless otherwise agreed.

f Unless otherwise agreed, $Nb + V + Ti \leq 0.15\%$.

g No deliberate addition of B is permitted and the residual B $\leq 0.001\%$.

API 5L-2018 - specification PSL 2

Steel Grade (Steel Name)	Mass Fraction, Based on Heat and Product Analyses % max									Carbon Equivalent ^a % max	
	C ^b	Si	Mn ^b	P	S	V	Nb	Ti	Other	CEI _W	CEP _{cm}
Seamless and Welded Pipe											
BR/N	0.24	0.40	1.20	0.025	0.015	c	c	0.04	e, l	0.43	0.25
BQ	0.18	0.45	1.40	0.025	0.015	0.05	0.05	0.04	e, l	0.43	0.25
X42R/N	0.24	0.40	1.20	0.025	0.015	0.06	0.05	0.04	e, l	0.43	0.25
X42Q	0.18	0.45	1.40	0.025	0.015	0.05	0.05	0.04	e, l	0.43	0.25
X52N	0.24	0.45	1.40	0.025	0.015	0.10	0.05	0.04	d,e,l	0.43	0.25
X52Q	0.18	0.45	1.50	0.025	0.015	0.05	0.05	0.04	d,e,l	0.43	0.25
X56N	0.24	0.45	1.40	0.025	0.015	0.10 ^f	0.05	0.04	d,e,l	0.43	0.25
X56Q	0.18	0.45	1.50	0.025	0.015	0.07	0.05	0.04	d,e,l	0.43	0.25
X60N	0.24 ^f	0.45 ^f	1.40 ^f	0.025	0.015	0.10 ^f	0.05 ^f	0.04 ^f	g,h,l	As agreed	
X60Q	0.18 ^f	0.45 ^f	1.70 ^f	0.025	0.015	g	g	g	h,l	0.43	0.25
X65Q	0.18 ^f	0.45 ^f	1.70 ^f	0.025	0.015	g	g	g	h,l	0.43	0.25
X70Q	0.18 ^f	0.45 ^f	1.80 ^f	0.025	0.015	g	g	g	h,l	0.43	0.25
Welded Pipe											
X42	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	e,l	0.43	0.25
X46	0.22	0.45	1.30	0.025	0.015	0.05	0.05	0.04	e,l	0.43	0.25
X52	0.22	0.45	1.40	0.025	0.015	d	d	d	e,l	0.43	0.25
X56	0.22	0.45	1.40	0.025	0.015	d	d	d	e,l	0.43	0.25
X60	0.12 ^f	0.45 ^f	1.60 ^f	0.025	0.015	g	g	g	h,l	0.43	0.25
X65	0.12 ^f	0.45 ^f	1.60 ^f	0.025	0.015	g	g	g	h,l	0.43	0.25
X70	0.12 ^f	0.45 ^f	1.70 ^f	0.025	0.015	g	g	g	h,l	0.43	0.25

a Based on product analysis, for seamless pipe with $t > 20.0\text{ mm}(0.787\text{ in.})$, the CE limits shall be as agreed; the CEI_W limits apply if $C > 0.12\%$ and the CEP_{cm} limits apply if $C \leq 0.12\%$.

b For each reduction of 0.01 % below the specified maximum for C, an increase of 0.05 % above the specified maximum for Mn is permissible, up to a maximum of 1.65 % for grades $\geq B$, but $\leq X52$; up to a maximum of 1.75 % for grades $> X52$, but $< X70$; up to a maximum of 2.00 % for grades $\geq X70$, but $\leq X80$; and up to a maximum of 2.20 % for grades $> X80$.

c Unless otherwise agreed, $Nb + V \leq 0.06\%$.

d $Nb + V + Ti \leq 0.15\%$.

e Unless otherwise agreed, $Cu \leq 0.50\%$; $Ni \leq 0.30\%$; $Cr \leq 0.30\%$ and $Mo \leq 0.15\%$.

f Unless otherwise agreed

g Unless otherwise agreed, $Nb + V + Ti \leq 0.15\%$.

h Unless otherwise agreed, $Cu \leq 0.50\%$; $Ni \leq 0.50\%$; $Cr \leq 0.50\%$ and $Mo \leq 0.50\%$. i Unless otherwise agreed, $Cu \leq 0.50\%$; $Ni \leq 1.00\%$; $Cr \leq 0.50\%$ and $Mo \leq 0.50\%$.

l For PSL 2 pipe grades except those grades to which footnote j) already applies, the following applies: unless otherwise agreed no intentional addition of B is permitted and residual B $\leq 0.001\%$.

j B $\leq 0.004\%$.

k Unless otherwise agreed, $Cu \leq 0.50\%$; $Ni \leq 1.00\%$; $Cr \leq 0.55\%$ and $Mo \leq 0.80\%$. l For PSL 2 pipe grades except those grades to which footnote j) already applies, the following applies: unless otherwise agreed no intentional addition of B is permitted and residual B $\leq 0.001\%$.

PSL 1

• TENSILE REQUIREMENTS

Pipe Grade	Pipe Body of Seamless and Welded Pipe		
	Yield Strength R _{10.5} , MPa(Psi)	Tensile Strength R _m , MPa (Psi)	Elongation (on 50mm or 2 in) A ₁ %
	min	min	min
B	245(35,500)	415(60,200)	a
X42	290(42,100)	415(60,200)	a
X46	320(46,400)	435(63,100)	a
X52	360(52,200)	460(66,700)	a
X60	415(60,200)	520(75,400)	a
x65	450(65,300)	535(77,600)	a
x70	485(70,300)	570(82,700)	a

PSL 2

• TENSILE REQUIREMENTS

Pipe Grade	Pipe Body of Seamless and Welded Pipe				
	Yield Strength R _{10.5} , MPa(Psi)		Tensile Strength R _m , MPa(Psi)		Elongation (on 50mm or 2 in)A ₁ %
	min	max ^b	min	max ^c	min
B	245(35,500)	450(65,300) ^d	415(60,200)	655(95,00)	a
X42	290(42,100)	495(71,800)	415(60,200)	655(95,000)	a
X46	320(46,400)	525(76,100)	435(63,100)	655(95,000)	a
X52	360(52,200)	530(76,900)	460(66,700)	760(110,200)	a
X60	415(60,200)	565(81,900)	520(75,400)	760(110,200)	a
X65	450(65,300)	600(87,000)	535(77,600)	760(110,200)	a
X70	485(70,300)	635(92,100) ^e	570(82,700)	760(110,200)	a

a) The minimum elongation in 2 in. (50.8 mm) shall be that determined by the following equation :

US Customary Unit Equation $e = 625,000 A_{0.2} / U_{0.9}$

where

e = minimum elongation in 2 in. (50.8 mm) in percent rounded to the nearest percent. A = cross-sectional area of the tensile test specimen in sq. in.

U = specified minimum ultimate tensile strength in psi.

b) Maximum yield strength for an intermediate grade shall be the maximum for the next higher listed grade.

c) All intermediate grades have a maximum ultimate tensile strength of 110,000 psi (758 MPa).

d) Maximum yield strength for grade B pipe in sizes subject to longitudinal testing is 72,000 psi (496 MPa).

e) For wall thickness greater than 0.984 in. (25.0 mm), the maximum yield strength shall be determined by agreement between the purchaser and the manufacturer.

API 5L

Standard-Weight threaded line pipe

• DIMENSIONS, WEIGHTS AND TEST PRESSURES

Dimension Size designation	Outside diameter		Wall thickness		Weights				Inside diameter		test pressure min (bar)	
					Plain ends pipes ²		Threads and coupl ^{1,2}					
	mm	Inch	mm	Inch	Kg/m	lb/ft	kg	lb	mm	inch	A	B
0.405	10,3	0.405	1,7	0.068	0.36	0.24	0,09	0.20	6.9	0.269	48	48
0.540	13,7	0.540	2,2	0.088	0.62	0.43	0,09	0.20	9.3	0.364	48	48
0.675	17,1	0.675	2,3	0.091	0.84	0.57	0,00	0.00	12.5	0.493	48	48
0.840	21.3	0.840	2,8	0.109	1.28	0.85	0,09	0.20	15.7	0.622	48	48
1.050	26.7	1.050	2,9	0.113	1.70	1.13	0,09	0.20	20.9	0.824	48	48
1.315	33.4	1.315	3,4	0.133	2.52	1.68	0,09	0.20	26.6	1.049	48	48
1.660	42.2	1.660	3,6	0.140	3.43	2.27	0,27	0.60	35.0	1.380	69	76
1.900	48.3	1.900	3,7	0.145	4.07	2.72	0,18	0.40	40.9	1.610	69	76
2 3/8	60.3	2.375	3,9	0.154	5.42	3.66	0,54	1.20	52.5	2.067	69	76
2 7/8	73.0	2.875	5,2	0.203	8.69	5.80	0,82	1.80	26.6	2.469	69	76
3 1/2	88.9	3.500	5,5	0.216	11,31	7.58	0,82	1.80	77.9	3.068	69	76
4	101,6	4.000	5,7	0.226	13,48	9.12	1,45	3.20	90.2	3.548	83	90
4 1/2	114,3	4.500	6,0	0.237	16,02	10.80	2,00	4.40	102.3	4.026	83	90
5 9/16	141,3	5.563	6,6	0.258	21,92	14.63	2,54	5.60	128.1	5.047	83	90
6 5/8	168,3	6.625	7,1	0.280	28,22	18.99	3,27	7.20	154.1	6.065	83	90
8 5/8	219,1	8.625	7,0	0.277	36,61	24.72	6,72	14.80	205.1	8.071	79	92
	219,1	8.625	8,2	0.322	42,65	28.58	6,36	14.00	202.7	7.981	93	108
10 3/4	273,1	10.750	7,1	0.279	46,57	31.23	9,08	20.00	258.9	10.192	65	75
	273,1	10.750	7,8	0.307	51,03	34.27	8,72	19.20	257.5	10.136	71	83
	273,1	10.750	9,3	0.365	60,50	40.52	7,90	17.40	254.5	10.020	85	98
12 3/4	323,9	12.750	8,4	0.330	65,35	43.81	14,80	32.60	307.1	12.090	64	75
	323,9	12.750	9,5	0.375	73,65	49.61	13,98	30.80	304.9	12.000	73	85
14	355,6	14.000	9,5	0.375	81,08	54.62	11,17	24.60	336.6	13.250	66	77
16	406,4	16.000	9,5	0.375	92,98	62.64	13,62	30.00	387.4	15.250	58	68
18	457,0	18.000	9,5	0.375	104,84	70.65	16,16	35.60	438.0	17.250	52	60
20	508,0	20.000	9,5	0.375	116,78	78.67	19,07	42.00	489.0	19.250	46	54

¹Weight gain due to end finishing

²Calculated weights.

API 5L extra-strong threaded line pipe

• DIMENSIONS, WEIGHTS AND TEST PRESSURES

Dimension Size designation	Outside diameter		Wall thickness		Weights				Inside diameter		test pressure min(bar)	
	mm	inches	mm	inches	Plain ends pipes ²		Threads and coupl ^{1,2}		mm	inches	Grades	
					Kg/m	lb/ft	kg	lb			A	B
0.405	10,3	0.405	2,4	0.095	0,47	0.31	0,01	0.02	5,5	0.215	59	59
0.540	13,7	0.540	3,0	0.119	0,79	0.54	0,02	0.05	7,7	0.302	59	59
0.675	17,1	0.675	3,2	0.126	1,10	0.74	0,03	0.07	10,7	0.423	59	59
0.840	21,3	0.840	3,7	0.147	1,61	1.09	0,05	0.12	13,9	0.546	59	59
1.050	26,7	1.050	3,9	0.154	2,19	1.48	0,08	0.18	18,9	0.742	59	59
1.315	33,4	1.315	4,5	0.179	3,21	2.17	0,10	0.23	24,4	0.957	59	59
1.660	42,2	1.660	4,9	0.191	4,51	3.00	0,26	0.56	32,4	1.278	103	110
1.900	48,3	1.900	5,1	0.200	5,43	3.63	0,16	0.36	38,1	1.500	103	110
2 3/8	60,3	2.375	5,5	0.218	7,43	5.03	0,50	1.09	49,3	1.939	172	172
2 7/8	73,0	2.875	7,0	0.276	11,39	7.67	0,71	1.57	59,0	2.323	172	172
3 1/2	88,9	3.500	7,6	0.300	15,24	10.26	0,80	1.76	73,7	2.900	172	172
4	101,6	4.000	8,1	0.318	18,68	12.52	1,36	3.00	85,4	3.364	193	193
4 1/2	114,3	4.500	8,6	0.337	22,42	15.00	1,81	3.99	97,1	3.826	187	193
5 9/16	141,3	5.563	9,5	0.375	30,88	20.80	2,24	4.94	122,3	4.813	167	193
6 5/8	168,3	6.625	11,0	0.432	42,67	28.60	2,56	5.65	146,3	5.761	162	189
8 5/8	219,1	8.625	12,7	0.500	64,64	43.43	5,20	11.47	193,7	7.625	144	168
10 3/4	273,1	10.750	12,7	0.500	81,55	54.79	6,95	15.32	247,7	9.75	116	134
12 3/4	323,9	12.750	12,7	0.500	97,46	65.48	13,04	28.74	298,5	11.75	97	113

¹Weight gain due to end finishing

²Calculated weights.

API 5L line pipe plain end

• DIMENSIONS, WEIGHTS AND TEST PRESSURES

Dimension Size designation	Outside diameter		Wall thickness		Designation	Weights		Inside diameter		min(bar) test pressure	
	mm	inches	mm	inches		Kg/m	lb /ft	mm	inches	Grades	
										A	B
0.405	10,3	0.405	1,7	0.068	STD	0,36	0.24	6,9	0.269	48	48
	10,3	0.405	2,4	0.095	XS	0,47	0.31	5,5	0.215	59	59
0.540	13,7	0.540	2,2	0.088	STD	0,62	0.43	9,3	0.364	48	48
	13,7	0.540	3,0	0.119	XS	0,79	0.54	7,7	0.302	59	59
0.675	17,1	0.675	2,3	0.091	STD	0,84	0.57	12,5	0.493	48	48
	17,1	0.675	3,2	0.126	XS	1,10	0.74	10,7	0.423	59	59
0.840	21,3	0.840	2,8	0.109	STD	1,28	0.85	15,7	0.622	48	48
	21,3	0.840	3,7	0.147	XS	1,61	1.09	13,9	0.546	59	59
	21,3	0.840	7,5	0.294	XXS	2,55	1.72	6,3	0.252	69	69
1.050	26,7	1.050	2,9	0.113	STD	1,70	1.13	20,9	0.824	48	48
	26,7	1.050	3,9	0.154	XS	2,19	1.48	18,9	0.742	59	59
	26,7	1.050	7,8	0.308	XXS	3,64	2.44	11,1	0.434	69	69
1.315	33,4	1.315	3,4	0.133	STD	2,52	1.68	26,6	1.049	48	48
	33,4	1.315	4,5	0.179	XS	3,21	2.17	24,4	0.957	59	59
	33,4	1.315	9,1	0.358	XXS	5,45	3.66	15,2	0.599	69	69
1.660	42,2	1.660	3,6	0.140	STD	3,43	2.27	35,0	1.380	90	90
	42,2	1.660	4,9	0.191	XS	4,51	3.00	32,4	1.278	131	131
	42,2	1.660	9,7	0.382	XXS	7,77	5.22	22,8	0.896	158	158
1.900	48,3	1.900	3,7	0.145	STD	4,07	2.72	40,9	1.610	90	90
	48,3	1.900	5,1	0.200	XS	5,43	3.63	38,1	1.500	131	131
	48,3	1.900	10,2	0.400	XXS	9,58	6.41	27,9	1.100	158	158



API 5L line pipe plain end

API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

• TEST PRESSURES

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb/ft	mm	inches
		12	12 3/4	323,9	12.750		5,2	0.203		40,87	27.23	313,5	12.344
		323,9	12.750	5,6	0.219		43,96	29.34	312,7	12.312
		323,9	12.750	6,4	0.250		50,11	33.41	311,1	12.250
		323,9	12.750	7,1	0.281		55,47	37.46	309,7	12.188
		323,9	12.750	7,9	0.312		61,56	41.48	308,1	12.126
		323,9	12.750	8,4	0.330		65,35	43.81	307,1	12.090
		323,9	12.750	8,7	0.344		67,62	45.62	306,5	12.062
		323,9	12.750	9,5	0.375	STD	73,65	49.61	304,9	12.000
		323,9	12.750	10,3	0.406		79,65	53.57	303,3	11.938
		323,9	12.750	11,1	0.438		85,62	57.65	301,7	11.874
		323,9	12.750	12,7	0.500	XS	97,46	65.48	298,5	11.750
		323,9	12.750	14,3	0.562		109,18	73.22	295,3	11.626
		323,9	12.750	15,9	0.625		120,76	81.01	292,1	11.500
		323,9	12.750	17,5	0.688		132,23	88.71	288,9	11.374
		323,9	12.750	19,1	0.750		143,56	96.21	285,7	11.250
		323,9	12.750	20,6	0.812		154,08	103.63	282,7	11.126
		323,9	12.750	22,2	0.875		165,17	111.08	279,5	11.000
		323,9	12.750	23,8	0.938		176,13	118.44	276,3	10.874
		323,9	12.750	25,4	1.000	XXS	186,97	125.61	273,1	10.750
		323,9	12.750	27,0	1.062		197,68	132.69	269,9	10.626
		323,9	12.750	28,6	1.125		208,27	139.81	266,7	10.500
		323,9	12.750	31,8	1.250		229,06	153.67	260,3	10.250
14	14	355,6	14.000	4,8	0.188		154,08	103.63	282,7	11.126
		355,6	14.000	5,2	0.203		165,17	111.08	279,5	11.000
		355,6	14.000	5,3	0.210		176,13	118.44	276,3	10.874
		355,6	14.000	5,6	0.219		186,97	125.61	273,1	10.750
		355,6	14.000	6,4	0.250		197,68	132.69	269,9	10.626
		355,6	14.000	7,1	0.281		208,27	139.81	266,7	10.500
		355,6	14.000	7,9	0.312		229,06	153.67	260,3	10.250
		355,6	14.000	8,7	0.344		41,52	27.76	346,0	13.624
		355,6	14.000	9,5	0.375	STD	44,93	29.94	345,2	13.594
		355,6	14.000	10,3	0.406		45,78	30.96	345,0	13.580
		355,6	14.000	11,1	0.438		48,33	32.26	344,4	13.562
		355,6	14.000	11,9	0.469		55,11	36.75	342,8	13.500
		355,6	14.000	12,7	0.500	XS	61,02	41.21	341,4	13.438
		355,6	14.000	14,3	0.562		67,74	45.65	339,8	13.376
		355,6	14.000	15,9	0.625		74,42	50.22	338,2	13.312
		355,6	14.000	17,5	0.688		81,08	54.62	336,6	13.250
		355,6	14.000	19,1	0.750		87,71	59.00	335,0	13.188
		355,6	14.000	20,6	0.812		94,30	63.50	333,4	13.124
		355,6	14.000	22,2	0.875		100,86	67.84	331,8	13.062
		355,6	14.000	23,8	0.938		107,39	72.16	330,2	13.000
		355,6	14.000	25,4	1.000		120,36	80.73	327,0	12.876
		355,6	14.000	27,0	1.062		133,19	89.36	323,8	12.750
		355,6	14.000	28,6	1.125		145,91	97.91	320,6	12.624
		355,6	14.000	31,8	1.250		158,49	106.23	317,4	12.500

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
40	46	79	87	98	105	113	122	132	151	5,2
43	50	85	93	106	113	122	132	142	162	5,6
49	57	97	106	121	130	139	150	162	185	6,4
54	63	108	118	134	144	154	167	180	206	7,1
61	71	120	131	149	160	172	186	200	207	7,9
64	75	128	140	158	170	183	198	207	207	8,4
67	78	132	145	164	176	189	205	207	207	8,7
73	85	145	158	179	192	206	207	207	207	9,5
79	92	157	171	194	207	207	207	207	207	10,3
85	99	169	185	207	207	207	207	207	207	11,1
97	113	193	207	207	207	207	207	207	207	12,7
110	128	207	207	207	207	207	207	207	207	14,3
122	142	207	207	207	207	207	207	207	207	15,9
134	156	207	207	207	207	207	207	207	207	17,5
146	171	207	207	207	207	207	207	207	207	19,1
158	184	207	207	207	207	207	207	207	207	20,6
170	193	207	207	207	207	207	207	207	207	22,2
183	193	207	207	207	207	207	207	207	207	23,8
193	193	207	207	207	207	207	207	207	207	25,4
193	193	207	207	207	207	207	207	207	207	27,0
193	193	207	207	207	207	207	207	207	207	28,6
193	193	207	207	207	207	207	207	207	207	31,8
34	39	67	73	82	89	95	103	111	127	4,8
36	42	72	79	89	96	103	111	120	137	5,2
37	43	73	80	91	98	105	114	122	140	5,3
39	46	78	85	96	103	111	120	129	148	5,6
45	52	89	97	110	118	127	137	148	169	6,4
50	58	98	108	122	131	141	152	164	187	7,1
55	64	110	120	136	146	156	169	182	207	7,9
61	71	121	132	149	161	172	186	201	207	8,7
66	77	132	144	163	175	188	203	207	207	9,5
72	84	143	156	177	190	204	207	207	207	10,3
78	90	154	168	191	205	207	207	207	207	11,1
83	97	165	180	204	207	207	207	207	207	11,9
89	103	176	192	207	207	207	207	207	207	12,7
100	116	198	207	207	207	207	207	207	207	14,3
111	129	207	207	207	207	207	207	207	207	15,9
122	142	207	207	207	207	207	207	207	207	17,5
133	155	207	207	207	207	207	207	207	207	19,1
144	168	207	207	207	207	207	207	207	207	20,6
155	181	207	207	207	207	207	207	207	207	22,2
166	193	207	207	207	207	207	207	207	207	23,8
177	193	207	207	207	207	207	207	207	207	25,4
189	193	207	207	207	207	207	207	207	207	27,0
193	193	207	207	207	207	207	207	207	207	28,6
193	193	207	207	207	207	207	207	207	207	31,8

**API 5L
line pipe
plain end**

**API 5L
line pipe
plain end**

• DIMENSIONS, WEIGHTS

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb/ft	mm	inches
16	16	406,4	16.000	4,8	0.188		47,54	31.78	396,8	15.624
		406,4	16.000	5,2	0.203		51,45	34.28	396,0	15.594
		406,4	16.000	5,6	0.219		55,35	36.95	395,2	15.562
		406,4	16.000	6,4	0.250		63,13	42.09	393,6	15.500
		406,4	16.000	7,1	0.281		69,91	47.22	392,2	15.438
		406,4	16.000	7,9	0.312		77,63	52.32	390,6	15.376
		406,4	16.000	8,7	0.344		85,32	57.57	389,0	15.312
		406,4	16.000	9,5	0.375	STD	92,98	62.64	387,4	15.250
		406,4	16.000	10,3	0.406		100,61	67.68	385,8	15.188
		406,4	16.000	11,1	0.438		108,20	72.86	384,2	15.124
		406,4	16.000	11,9	0.469		115,77	77.87	382,6	15.062
		406,4	16.000	12,7	0.500	XS	123,30	82.85	381,0	15.000
		406,4	16.000	14,3	0.562		138,27	92.75	377,8	14.876
		406,4	16.000	15,9	0.625		153,11	102.72	374,6	14.750
		406,4	16.000	17,5	0.688		167,83	112.62	371,4	14.624
		406,4	16.000	19,1	0.750		182,42	122.27	368,2	14.500
		406,4	16.000	20,6	0.812		195,98	131.84	365,2	14.376
		406,4	16.000	22,2	0.875		210,33	141.48	362,0	14.250
		406,4	16.000	23,8	0.938		224,55	151.03	358,8	14.124
		406,4	16.000	25,4	1.000		238,64	160.35	355,6	14.000
406,4	16.000	27,0	1.062		252,61	169.59	352,4	13.876		
406,4	16.000	28,6	1.125		266,45	178.89	349,2	13.750		
406,4	16.000	30,2	1.188		280,17	188.11	346,0	13.624		
406,4	16.000	31,8	1.250		293,76	197.10	342,8	13.500		
18	18	457,0	18.000	4,8	0.188		53,53	35.80	447,4	17.624
		457,0	18.000	5,6	0.219		62,34	41.63	445,8	17.562
		457,0	18.000	6,4	0.250		71,12	47.44	444,2	17.500
		457,0	18.000	7,1	0.281		78,77	53.23	442,8	17.438
		457,0	18.000	7,9	0.312		87,49	58.99	441,2	17.376
		457,0	18.000	8,7	0.344		96,18	64.93	439,6	17.312
		457,0	18.000	9,5	0.375	STD	104,84	70.65	438,0	17.250
		457,0	18.000	10,3	0.406		113,46	76.36	436,4	17.188
		457,0	18.000	11,1	0.438		122,05	82.23	434,8	17.124
		457,0	18.000	11,9	0.469		130,62	87.89	433,2	17.062
		457,0	18.000	12,7	0.500	XS	139,15	93.54	431,6	17.000
		457,0	18.000	14,3	0.562		156,11	104.76	428,4	16.876
		457,0	18.000	15,9	0.625		172,95	116.09	425,2	16.750
		457,0	18.000	17,5	0.688		189,67	127.32	422,0	16.624
		457,0	18.000	19,1	0.750		206,25	138.30	418,8	16.500
		457,0	18.000	20,6	0.812		221,69	149.20	415,8	16.376
		457,0	18.000	22,2	0.875		238,03	160.18	412,6	16.250
		457,0	18.000	23,8	0.938		254,25	171.08	409,4	16.124
		457,0	18.000	25,4	1.000		270,34	181.73	406,2	16.000
		457,0	18.000	27,0	1.062		286,30	192.29	403,0	15.876
457,0	18.000	28,6	1.125		302,14	202.94	399,8	15.750		
457,0	18.000	30,2	1.188		317,85	213.51	396,6	15.624		

• TEST PRESSURES

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
29	34	58	64	72	78	83	90	97	111	4,8
32	37	63	69	78	84	90	97	105	120	5,2
34	40	68	74	84	90	97	105	113	129	5,6
39	46	78	85	96	103	111	120	129	148	6,4
43	51	86	94	107	115	123	133	143	164	7,1
48	56	96	105	119	128	137	148	160	182	7,9
53	62	106	115	131	140	151	163	176	201	8,7
58	68	115	126	143	153	165	178	192	207	9,5
63	73	125	137	155	166	178	193	207	207	10,3
68	79	135	147	167	179	192	207	207	207	11,1
73	85	144	158	179	192	206	207	207	207	11,9
78	90	154	168	191	205	207	207	207	207	12,7
87	102	173	190	207	207	207	207	207	207	14,3
97	113	193	207	207	207	207	207	207	207	15,9
107	125	207	207	207	207	207	207	207	207	17,5
117	136	207	207	207	207	207	207	207	207	19,1
126	147	207	207	207	207	207	207	207	207	20,6
136	158	207	207	207	207	207	207	207	207	22,2
145	169	207	207	207	207	207	207	207	207	23,8
155	181	207	207	207	207	207	207	207	207	25,4
165	192	207	207	207	207	207	207	207	207	27,0
175	193	207	207	207	207	207	207	207	207	28,6
185	193	207	207	207	207	207	207	207	207	30,2
193	193	207	207	207	207	207	207	207	207	31,8
26	30	52	57	64	69	74	80	86	99	4,8
30	35	60	66	75	80	86	93	101	115	5,6
35	41	69	75	85	92	99	107	115	131	6,4
39	45	77	84	95	102	109	118	128	146	7,1
43	50	85	93	106	113	122	132	142	162	7,9
47	55	94	103	116	125	134	145	156	179	8,7
52	60	102	112	127	136	146	158	171	195	9,5
56	65	111	121	138	148	159	172	185	207	10,3
60	70	120	131	148	159	171	185	199	207	11,1
65	75	128	140	159	171	183	198	207	207	11,9
69	80	137	150	170	182	196	207	207	207	12,7
78	90	154	169	191	205	207	207	207	207	14,3
86	101	172	187	207	207	207	207	207	207	15,9
95	111	189	206	207	207	207	207	207	207	17,5
104	121	206	207	207	207	207	207	207	207	19,1
112	130	207	207	207	207	207	207	207	207	20,6
121	140	207	207	207	207	207	207	207	207	22,2
129	151	207	207	207	207	207	207	207	207	23,8
138	161	207	207	207	207	207	207	207	207	25,4
147	171	207	207	207	207	207	207	207	207	27,0
155	181	207	207	207	207	207	207	207	207	28,6
164	191	207	207	207	207	207	207	207	207	30,2



**API 5L
line pipe
plain end**

**API 5L
line pipe
plain end**

• DIMENSIONS, WEIGHTS

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb /ft	mm	inches
18	18	457,0	18.000	31,8	1.250		333,44	223.82	393,4	15.500
20	20	508,0	20.000	5,6	0.219		69,38	46.31	496,8	19.562
		508,0	20.000	6,4	0.250		79,16	52.78	495,2	19.500
		508,0	20.000	7,1	0.281		87,70	59.23	493,8	19.438
		508,0	20.000	7,9	0.312		97,43	65.66	492,2	19.376
		508,0	20.000	8,7	0.344		107,12	72.28	490,6	19.312
		508,0	20.000	9,5	0.375	STD	116,78	78.67	489,0	19.250
		508,0	20.000	10,3	0.406		126,41	85.04	487,4	19.188
		508,0	20.000	11,1	0.438		136,01	91.59	485,8	19.124
		508,0	20.000	11,9	0.469		145,58	97.92	484,2	19.062
		508,0	20.000	12,7	0.500	XS	155,12	104.23	482,6	19.000
		508,0	20.000	14,3	0.562		174,10	116.78	479,4	18.876
		508,0	20.000	15,9	0.625		192,95	129.45	476,2	18.750
		508,0	20.000	17,9	0.688		216,34	142.03	472,2	18.624
		508,0	20.000	19,1	0.750		230,27	154.34	469,8	18.500
		508,0	20.000	20,6	0.812		247,60	166.56	466,8	18.376
		508,0	20.000	22,2	0.875		265,95	178.89	463,6	18.250
		508,0	20.000	23,8	0.938		284,18	191.14	460,4	18.124
		508,0	20.000	25,4	1.000		302,28	203.11	457,2	18.000
		508,0	20.000	27,0	1.062		320,26	215.00	454,0	17.876
		508,0	20.000	28,6	1.125		338,11	227.00	450,8	17.750
508,0	20.000	30,2	1.188		355,83	238.91	447,6	17.624		
508,0	20.000	31,8	1.250		373,43	250.55	444,4	17.500		
508,0	20.000	33,3	1.312		389,81	262.10	441,4	17.376		
508,0	20.000	34,9	1.375		407,17	273.76	438,2	17.250		
22	22	559,0	22.000	5,6	0.219		76,42	50.99	547,8	21.562
		559,0	22.000	6,4	0.250		87,21	58.13	546,2	21.500
		559,0	22.000	7,1	0.281		96,63	65.24	544,8	21.438
		559,0	22.000	7,9	0.312		107,36	72.34	543,2	21.376
		559,0	22.000	8,7	0.344		118,06	79.64	541,6	21.312
		559,0	22.000	9,5	0.375	STD	128,73	86.69	540,0	21.250
		559,0	22.000	10,3	0.406		139,37	93.72	538,4	21.188
		559,0	22.000	11,1	0.438		149,97	100.96	536,8	21.124
		559,0	22.000	11,9	0.469		160,55	107.95	535,2	21.062
		559,0	22.000	12,7	0.500	XS	171,09	114.92	533,6	21.000
		559,0	22.000	14,3	0.562		192,08	128.79	530,4	20.876
		559,0	22.000	15,9	0.625		212,95	142.81	527,2	20.750
		559,0	22.000	17,5	0.688		233,68	156.74	524,0	20.624
		559,0	22.000	19,1	0.750		254,30	170.37	520,8	20.500
		559,0	22.000	20,6	0.812		273,51	183.92	517,8	20.376
		559,0	22.000	22,2	0.875		293,87	197.60	514,6	20.250
		559,0	22.000	23,8	0.938		314,11	211.19	511,4	20.124
		559,0	22.000	25,4	1.000		334,23	224.49	508,2	20.000
		559,0	22.000	27,0	1.062		354,22	237.70	505,0	19.876
		559,0	22.000	28,6	1.125		374,08	251.05	501,8	19.750
559,0	22.000	30,2	1.188		393,81	264.31	498,6	19.624		

• TEST PRESSURES

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	mm
173	193	207	207	207	207	207	207	207	207	31,8
27	32	58	63	71	77	82	89	96	110	5,6
31	36	66	72	81	88	94	102	110	125	6,4
35	40	73	80	90	97	104	113	122	139	7,1
39	45	81	89	100	108	116	125	135	155	7,9
43	50	89	98	111	119	128	138	149	170	8,7
46	54	98	107	121	130	139	151	163	186	9,5
50	59	106	116	131	141	151	164	176	201	10,3
54	63	114	125	141	152	163	176	190	207	11,1
58	68	122	134	151	163	175	189	204	207	11,9
62	72	131	143	162	174	186	202	207	207	12,7
70	81	147	161	182	196	207	207	207	207	14,3
78	91	163	179	202	207	207	207	207	207	15,9
88	102	184	201	207	207	207	207	207	207	17,5
93	109	196	207	207	207	207	207	207	207	19,1
101	117	207	207	207	207	207	207	207	207	20,6
109	126	207	207	207	207	207	207	207	207	22,2
116	135	207	207	207	207	207	207	207	207	23,8
124	145	207	207	207	207	207	207	207	207	25,4
132	154	207	207	207	207	207	207	207	207	27,0
140	163	207	207	207	207	207	207	207	207	28,6
148	172	207	207	207	207	207	207	207	207	30,2
155	181	207	207	207	207	207	207	207	207	31,8
163	190	207	207	207	207	207	207	207	207	33,3
171	193	207	207	207	207	207	207	207	207	34,9
25	29	52	57	65	70	75	81	87	100	5,6
28	33	60	65	74	80	85	92	100	114	6,4
32	37	66	72	82	88	95	102	110	126	7,1
35	41	74	81	91	98	105	114	123	140	7,9
39	45	81	89	101	108	116	126	135	155	8,7
42	49	89	97	110	118	127	137	148	169	9,5
46	53	96	105	119	128	137	149	160	183	10,3
49	57	104	113	128	138	148	160	173	197	11,1
53	62	111	121	138	148	159	172	185	207	11,9
56	66	119	130	147	158	169	183	198	207	12,7
64	74	134	146	165	178	191	206	207	207	14,3
71	82	148	162	184	198	207	207	207	207	15,9
78	91	163	179	202	207	207	207	207	207	17,5
85	99	178	195	207	207	207	207	207	207	19,1
92	107	192	207	207	207	207	207	207	207	20,6
99	115	207	207	207	207	207	207	207	207	22,2
106	123	207	207	207	207	207	207	207	207	23,8
113	131	207	207	207	207	207	207	207	207	25,4
120	140	207	207	207	207	207	207	207	207	27,0
127	148	207	207	207	207	207	207	207	207	28,6
134	156	207	207	207	207	207	207	207	207	30,2



API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb/ft	mm	inches
22	22	559.0	22.000	31.8	1.250		413.42	277.27	495.4	19.500
		559.0	22.000	33.3	1.312		431.69	290.15	492.4	19.376
		559.0	22.000	34.9	1.375		451.06	303.16	489.2	19.250
		559.0	22.000	36.5	1.438		470.30	316.08	486.0	19.126
		559.0	22.000	38.1	1.500		489.41	328.72	482.8	19.000
24	24	610.0	24.000	6.4	0.250		95.26	63.47	597.2	23.500
		610.0	24.000	7.1	0.281		105.56	71.25	595.8	23.438
		610.0	24.000	7.9	0.312		117.30	79.01	594.2	23.376
		610.0	24.000	8.7	0.344		129.00	86.99	592.6	23.312
		610.0	24.000	9.5	0.375	STD	140.68	94.71	591.0	23.250
		610.0	24.000	10.3	0.406		152.32	102.40	589.4	23.188
		610.0	24.000	11.1	0.438		163.93	110.32	587.8	23.124
		610.0	24.000	11.9	0.469		175.51	117.98	586.2	23.062
		610.0	24.000	12.7	0.500	XS	187.06	125.61	584.6	23.000
		610.0	24.000	14.3	0.562		210.07	140.81	581.4	22.876
		610.0	24.000	15.9	0.625		232.94	156.17	578.2	22.750
		610.0	24.000	17.5	0.688		255.69	171.45	575.0	22.624
		610.0	24.000	19.1	0.750		278.32	186.41	571.8	22.500
		610.0	24.000	20.6	0.812		299.41	201.28	568.8	22.376
		610.0	24.000	22.2	0.875		321.79	216.31	565.6	22.250
		610.0	24.000	23.8	0.938		344.05	231.25	562.4	22.124
		610.0	24.000	25.4	1.000		366.17	245.87	559.2	22.000
		610.0	24.000	27.0	1.062		388.17	260.41	556.0	21.876
		610.0	24.000	28.6	1.125		410.05	275.10	552.8	21.750
		610.0	24.000	30.2	1.188		431.80	289.71	549.6	21.624
		610.0	24.000	31.8	1.250		453.42	304.00	546.4	21.500
		610.0	24.000	33.3	1.312		473.57	318.21	543.4	21.376
		610.0	24.000	34.9	1.375		494.95	332.56	540.2	21.250
		610.0	24.000	36.5	1.438		516.20	346.83	537.0	21.124
		610.0	24.000	38.1	1.500		537.33	360.79	533.8	21.000
610.0	24.000	39.7	1.562		558.32	374.66	530.6	20.876		
26	26	660.0	26.000	6.4	0.250		103.15	68.82	647.2	25.500
		660.0	26.000	7.1	0.281		114.31	77.26	645.8	25.438
		660.0	26.000	7.9	0.312		127.04	85.68	644.2	25.376
		660.0	26.000	8.7	0.344		139.73	94.35	642.6	25.312
		660.0	26.000	9.5	0.375	STD	152.39	102.72	641.0	25.250
		660.0	26.000	10.3	0.406		165.02	111.08	639.4	25.188
		660.0	26.000	11.1	0.438		177.62	119.69	637.8	25.124
		660.0	26.000	11.9	0.469		190.19	128.00	636.2	25.062
		660.0	26.000	12.7	0.500	XS	202.72	136.30	634.6	25.000
		660.0	26.000	14.3	0.562		227.70	152.83	631.4	24.876
		660.0	26.000	15.9	0.625		252.55	169.54	628.2	24.750
		660.0	26.000	17.5	0.688		277.27	186.16	625.0	24.624
		660.0	26.000	19.1	0.750		301.87	202.44	621.8	24.500
		660.0	26.000	20.6	0.812		324.81	218.64	618.8	24.376
		660.0	26.000	22.2	0.875		349.16	235.01	615.6	24.250

API 5L line pipe plain end

• TEST PRESSURES

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
141	165	207	207	207	207	207	207	207	207	31.8
148	172	172	207	207	207	207	207	207	207	33.3
155	181	181	207	207	207	207	207	207	207	34.9
162	189	189	207	207	207	207	207	207	207	36.5
169	193	193	207	207	207	207	207	207	207	38.1
26	30	30	60	68	73	78	85	91	104	6.4
29	34	34	66	75	81	87	94	101	116	7.1
32	37	37	74	84	90	97	104	113	129	7.9
35	41	41	81	92	99	106	115	124	142	8.7
39	45	45	89	101	108	116	126	135	155	9.5
42	49	49	96	109	117	126	136	147	168	10.3
45	53	53	104	118	126	136	147	158	181	11.1
48	56	56	111	126	136	145	157	170	194	11.9
52	60	60	119	135	145	155	168	181	207	12.7
58	68	68	134	151	163	175	189	204	207	14.3
65	75	75	149	168	181	194	207	207	207	15.9
71	83	83	164	185	199	207	207	207	207	17.5
78	91	91	179	202	207	207	207	207	207	19.1
84	98	98	193	207	207	207	207	207	207	20.6
90	105	105	207	207	207	207	207	207	207	22.2
97	113	113	207	207	207	207	207	207	207	23.8
103	120	120	207	207	207	207	207	207	207	25.4
110	128	128	207	207	207	207	207	207	207	27.0
116	136	136	207	207	207	207	207	207	207	28.6
123	143	143	207	207	207	207	207	207	207	30.2
129	151	151	207	207	207	207	207	207	207	31.8
136	158	158	207	207	207	207	207	207	207	33.3
142	165	165	207	207	207	207	207	207	207	34.9
149	173	173	207	207	207	207	207	207	207	36.5
155	181	181	207	207	207	207	207	207	207	38.1
162	188	188	207	207	207	207	207	207	207	39.7
24	28	51	55	63	67	72	78	84	96	6.4
27	31	56	61	70	75	80	87	94	107	7.1
30	35	62	68	77	83	89	97	104	119	7.9
33	38	69	75	85	92	98	106	115	131	8.7
36	42	75	82	93	100	107	116	125	143	9.5
39	45	81	89	101	108	116	126	136	155	10.3
42	49	88	96	109	117	125	136	146	167	11.1
45	52	94	103	117	125	134	145	157	179	11.9
48	56	100	110	124	134	143	155	167	191	12.7
54	63	113	124	140	151	161	175	188	207	14.3
60	70	126	137	156	167	180	194	207	207	15.9
66	77	138	151	171	184	198	207	207	207	17.5
72	84	151	165	187	201	207	207	207	207	19.1
78	90	163	178	202	207	207	207	207	207	20.6
84	97	176	192	207	207	207	207	207	207	22.2

• DIMENSIONS, WEIGHTS

Table with columns: Diametre Nominal NPS, Dimension Nominal size, Outside diameter (mm, inches), Wall thickness (mm, inches), Designation, Weights (Kg/m, lb/ft), Inside diameter (mm, inches). Rows include diameters 26, 28, 30, and 32.

• TEST PRESSURES

Table with columns: A, B, X42, X46, X52, X56, X60, X65, X70, X80, W.T., mm. Header: Mini test pressure. Rows list test pressures for various grades and diameters.



**API 5L
line pipe
plain end**

**API 5L
line pipe
plain end**

• DIMENSIONS, WEIGHTS

• TEST PRESSURES

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb/ft	mm	inches
		32	32	813,0	32.000		11,1	0.438		219,50	147.78	790,8	31.124
		813,0	32.000	11,9	0.469		235,09	158.08	789,2	31.062
		813,0	32.000	12,7	0.500	XS	250,64	168.37	787,6	31.000
		813,0	32.000	14,3	0.562		281,65	188.87	784,4	30.876
		813,0	32.000	15,9	0.625		312,54	209.62	781,2	30.750
		813,0	32.000	17,5	0.688		343,30	230.29	778,0	30.624
		813,0	32.000	19,1	0.750		373,93	250.55	774,8	30.500
		813,0	32.000	20,6	0.812		402,54	270.72	771,8	30.376
		813,0	32.000	22,2	0.875		432,93	291.14	768,6	30.250
		813,0	32.000	23,8	0.938		463,19	311.47	765,4	30.124
		813,0	32.000	25,4	1.000		493,32	331.39	762,2	30.000
		813,0	32.000	27,0	1.062		523,33	351.23	759,0	29.876
		813,0	32.000	28,6	1.125		553,22	371.31	755,8	29.750
		813,0	32.000	30,2	1.188		582,98	391.30	752,6	29.624
		864,0	32.000	31,8	1.250		612,61	410.90	749,4	29.500
		864,0	34.000	6,4	0.250		135,35	90.20	851,2	33.500
		864,0	34.000	7,1	0.281		150,03	101.29	849,8	33.438
		864,0	34.000	7,9	0.312		166,78	112.36	848,2	33.376
		864,0	34.000	8,7	0.344		183,50	123.77	846,6	33.312
		864,0	34.000	9,5	0.375	STD	200,18	134.79	845,0	33.250
		864,0	34.000	10,3	0.406		216,84	145.80	843,4	33.188
		864,0	34.000	11,1	0.438		233,46	157.14	841,8	33.124
		864,0	34.000	11,9	0.469		250,05	168.11	840,2	33.062
		864,0	34.000	12,7	0.500	XS	266,61	179.06	838,6	33.000
		864,0	34.000	14,3	0.562		299,64	200.89	835,4	32.876
		864,0	34.000	15,9	0.625		332,53	222.99	832,2	32.750
		864,0	34.000	17,5	0.688		365,31	245.00	829,0	32.624
		864,0	34.000	19,1	0.750		397,95	266.58	825,8	32.500
		864,0	34.000	20,6	0.812		428,44	288.08	822,8	32.376
		864,0	34.000	22,2	0.875		460,85	309.84	819,6	32.250
		864,0	34.000	23,8	0.938		493,12	331.52	816,4	32.124
		864,0	34.000	25,4	1.000		525,27	352.77	813,2	32.000
		864,0	34.000	27,0	1.062		557,29	373.94	810,0	31.876
		864,0	34.000	28,6	1.125		589,19	395.36	806,8	31.750
		864,0	34.000	30,2	1.188		620,96	416.70	803,6	31.624
		864,0	34.000	31,8	1.250		652,60	437.62	800,4	31.500
		914,0	36.000	6,4	0.250		143,24	95.54	901,2	35.500
		914,0	36.000	7,1	0.281		158,79	107.30	899,8	35.438
		914,0	36.000	7,9	0.312		176,52	119.03	898,2	35.376
		914,0	36.000	8,7	0.344		194,22	131.12	896,6	35.312
		914,0	36.000	9,5	0.375	STD	211,90	142.81	895,0	35.250
		914,0	36.000	10,3	0.406		229,54	154.48	893,4	35.188
		914,0	36.000	11,1	0.438		247,15	166.51	891,8	35.124
		914,0	36.000	11,9	0.469		264,72	178.14	890,2	35.062
		914,0	36.000	12,7	0.500	XS	282,27	189.75	888,6	35.000
		914,0	36.000	14,3	0.562		317,27	212.90	885,4	34.876

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
34	39	71	78	88	95	102	110	119	136	11,1
36	42	76	84	95	102	109	118	127	145	11,9
39	45	82	89	101	109	116	126	136	155	12,7
44	51	92	100	114	122	131	142	153	175	14,3
49	57	102	112	126	136	146	158	170	194	15,9
53	62	112	123	139	150	160	174	187	207	17,5
58	68	123	134	152	163	175	189	204	207	19,1
63	73	132	145	164	176	189	204	207	207	20,6
68	79	143	156	176	190	203	207	207	207	22,2
73	85	153	167	189	203	207	207	207	207	23,8
78	90	163	178	202	207	207	207	207	207	25,4
82	96	173	189	207	207	207	207	207	207	27,0
87	102	184	201	207	207	207	207	207	207	28,6
92	107	194	207	207	207	207	207	207	207	30,2
97	113	204	207	207	207	207	207	207	207	31,8
18	21	39	42	48	51	55	60	64	74	6,4
20	24	43	47	53	57	61	66	71	82	7,1
23	26	48	52	59	64	68	74	79	91	7,9
25	29	53	57	65	70	75	81	88	100	8,7
27	32	57	63	71	76	82	89	96	109	9,5
30	34	62	68	77	83	89	96	104	118	10,3
32	37	67	73	83	89	96	104	112	128	11,1
34	40	72	79	89	96	103	111	120	137	11,9
37	43	77	84	95	102	110	119	128	146	12,7
41	48	86	94	107	115	123	133	144	164	14,3
46	53	96	105	119	128	137	148	160	183	15,9
50	59	106	116	131	141	151	163	176	201	17,5
55	64	115	126	143	154	165	178	192	207	19,1
59	69	124	136	154	166	178	192	207	207	20,6
64	74	134	147	166	179	191	207	207	207	22,2
68	80	144	157	178	191	205	207	207	207	23,8
73	85	153	168	190	204	207	207	207	207	25,4
78	90	163	178	202	207	207	207	207	207	27,0
82	96	173	189	207	207	207	207	207	207	28,6
87	101	182	199	207	207	207	207	207	207	30,2
91	106	192	207	207	207	207	207	207	207	31,8
17	20	37	40	45	49	52	56	61	70	6,4
19	22	41	44	50	54	58	63	68	77	7,1
21	25	45	49	56	60	64	70	75	86	7,9
24	28	50	54	62	66	71	77	83	95	8,7
26	30	54	59	67	72	77	84	90	103	9,5
28	33	59	64	73	78	84	91	98	112	10,3
30	35	63	69	78	84	91	98	106	121	11,1
32	38	68	74	84	90	97	105	113	129	11,9
35	40	73	79	90	97	104	112	121	138	12,7
39	45	82	89	101	109	117	126	136	155	14,3



API 5L line pipe plain end

API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

• TEST PRESSURES

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb /ft	mm	inches
36	36	914,0	36.000	15,9	0.625		352,14	236.35	882,2	34.750
		914,0	36.000	17,5	0.688		386,88	259.71	879,0	34.624
		914,0	36.000	19,1	0.750		421,50	282.62	875,8	34.500
		914,0	36.000	20,6	0.812		453,84	305.44	872,8	34.376
		914,0	36.000	22,2	0.875		488,22	328.55	869,6	34.250
		914,0	36.000	23,8	0.938		522,47	351.57	866,4	34.124
		914,0	36.000	25,4	1.000		556,59	374.15	863,2	34.000
		914,0	36.000	27,0	1.062		590,58	396.64	860,0	33.876
		914,0	36.000	28,6	1.125		624,45	419.42	856,8	33.750
		914,0	36.000	30,2	1.188		658,19	442.10	853,6	33.624
38	38	965,0	38.000	7,9	0.312		186,46	125.70	949,2	37.376
		965,0	38.000	8,7	0.344		205,17	138.47	947,6	37.312
		965,0	38.000	9,5	0.375	STD	223,84	150.83	946,0	37.250
		965,0	38.000	10,3	0.406		242,49	163.16	944,4	37.188
		965,0	38.000	11,1	0.438		261,11	175.87	942,8	37.124
		965,0	38.000	11,9	0.469		279,69	188.17	941,2	37.062
		965,0	38.000	12,7	0.500	XS	298,24	200.44	939,6	37.000
		965,0	38.000	14,3	0.562		335,25	224.92	936,4	36.876
		965,0	38.000	15,9	0.625		372,14	249.71	933,2	36.750
		965,0	38.000	17,5	0.688		408,89	274.42	930,0	36.624
		965,0	38.000	19,1	0.750		445,52	298.65	926,8	36.500
		965,0	38.000	20,6	0.812		479,75	322.80	923,8	36.376
		965,0	38.000	22,2	0.875		516,14	347.26	920,6	36.250
		965,0	38.000	23,8	0.938		552,40	371.63	917,4	36.124
		965,0	38.000	25,4	1.000		588,53	395.53	914,2	36.000
		965,0	38.000	27,0	1.062		624,54	419.35	911,0	35.876
		965,0	38.000	28,6	1.125		660,42	443.47	907,8	35.750
		40	40	1016,0	40.000	7,9	0.312		196,39	132.37	1000,2	39.376
1016,0	40.000			8,7	0.344		216,11	145.83	998,6	39.312
1016,0	40.000			9,5	0.375	STD	235,79	158.85	997,0	39.250
1016,0	40.000			10,3	0.406		255,45	171.84	995,4	39.188
1016,0	40.000			11,1	0.438		275,07	185.24	993,8	39.124
1016,0	40.000			11,9	0.469		294,66	198.19	992,2	39.062
1016,0	40.000			12,7	0.500	XS	314,22	211.13	990,6	39.000
1016,0	40.000			14,3	0.562		353,24	236.93	987,4	38.876
1016,0	40.000			15,9	0.625		392,13	263.07	984,2	38.750
1016,0	40.000			17,5	0.688		430,90	289.13	981,0	38.624
1016,0	40.000			19,1	0.750		469,55	314.69	977,8	38.500
1016,0	40.000			20,6	0.812		505,66	340.16	974,8	38.376
1016,0	40.000			22,2	0.875		544,06	365.97	971,6	38.250
1016,0	40.000			23,8	0.938		582,33	391.68	968,4	38.124
1016,0	40.000			25,4	1.000		620,48	416.91	965,2	38.000
1016,0	40.000			27,0	1.062		658,50	442.05	962,0	37.876

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	mm
43	50	91	99	112	121	130	140	151	173	15,9
48	55	100	109	124	133	143	154	166	190	17,5
52	60	109	119	135	145	156	169	182	207	19,1
56	65	118	129	146	157	168	182	196	207	20,6
60	70	127	139	157	169	181	196	207	207	22,2
65	75	136	149	168	181	194	207	207	207	23,8
69	80	145	159	180	193	207	207	207	207	25,4
73	85	154	169	191	205	207	207	207	207	27,0
78	90	163	179	202	207	207	207	207	207	28,6
82	96	172	189	207	207	207	207	207	207	30,2
86	101	182	199	207	207	207	207	207	207	31,8
20	24	43	47	53	57	61	66	71	81	7,9
22	26	47	51	58	63	67	73	78	90	8,7
24	28	51	56	64	68	73	79	86	98	9,5
27	31	56	61	69	74	80	86	93	106	10,3
29	33	60	66	74	80	86	93	100	114	11,1
31	36	64	70	80	86	92	99	107	123	11,9
33	38	69	75	85	91	98	106	114	131	12,7
37	43	77	85	96	103	110	119	129	147	14,3
41	48	86	94	106	114	123	133	143	164	15,9
45	52	95	103	117	126	135	146	158	180	17,5
49	57	103	113	128	138	147	160	172	197	19,1
53	62	111	122	138	148	159	172	186	207	20,6
57	67	120	131	149	160	171	186	200	207	22,2
61	71	129	141	159	171	184	199	207	207	23,8
65	76	137	150	170	183	196	207	207	207	25,4
70	81	146	160	181	194	207	207	207	207	27,0
74	86	155	169	192	206	207	207	207	207	28,6
78	91	163	179	202	207	207	207	207	207	30,2
82	95	172	188	207	207	207	207	207	207	31,8
19	22	41	44	50	54	58	63	68	77	7,9
21	25	45	49	55	59	64	69	74	85	8,7
23	27	49	53	60	65	70	75	81	93	9,5
25	29	53	58	66	70	76	82	88	101	10,3
27	32	57	62	71	76	81	88	95	109	11,1
29	34	61	67	76	81	87	94	102	116	11,9
31	36	65	71	81	87	93	101	109	124	12,7
35	41	73	80	91	98	105	113	122	140	14,3
39	45	82	89	101	109	117	126	136	155	15,9
43	50	90	98	111	120	128	139	150	171	17,5
47	54	98	107	121	131	140	152	163	187	19,1
50	59	106	116	131	141	151	164	176	201	20,6
54	63	114	125	141	152	163	176	190	207	22,2
58	68	122	134	151	163	175	189	204	207	23,8
62	72	131	143	162	174	186	202	207	207	25,4
66	77	139	152	172	185	198	207	207	207	27,0



API 5L line pipe plain end

API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

• TEST PRESSURES

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Designation	Weights		Inside diameter	
		mm	inches	mm	inches		Kg/m	lb/ft	mm	inches
		40	40	1016,0	40.000		28,6	1.125		696,39	467.52	958,8	37.750
1016,0	40.000			30,2	1.188		734,16	492.90	955,6	37.624
1016,0	40.000			31,8	1.250		771,80	517.80	952,4	37.500
1067,0	42.000			8,7	0.344		227,05	153.18	1049,6	41.312
1067,0	42.000			9,5	0.375	STD	247,74	166.86	1048,0	41.250
42	42	1067,0	42.000	10,3	0.406		268,40	180.52	1046,4	41.188
		1067,0	42.000	11,1	0.438		289,03	194.60	1044,8	41.124
		1067,0	42.000	11,9	0.469		309,62	208.22	1043,2	41.062
		1067,0	42.000	12,7	0.500	XS	330,19	221.82	1041,6	41.000
		1067,0	42.000	14,3	0.562		371,22	248.95	1038,4	40.876
		1067,0	42.000	15,9	0.625		412,13	276.44	1035,2	40.750
		1067,0	42.000	17,5	0.688		452,91	303.84	1032,0	40.624
		1067,0	42.000	19,1	0.750		493,57	330.72	1028,8	40.500
		1067,0	42.000	20,6	0.812		531,57	357.52	1025,8	40.376
		1067,0	42.000	22,2	0.875		571,98	384.67	1022,6	40.250
		1067,0	42.000	23,8	0.938		612,26	411.74	1019,4	40.124
		1067,0	42.000	25,4	1.000		652,42	438.29	1016,2	40.000
		1067,0	42.000	27,0	1.062		692,45	464.76	1013,0	39.876
		1067,0	42.000	28,6	1.125		732,36	491.57	1009,8	39.750
1067,0	42.000	30,2	1.188		772,14	518.30	1006,6	39.624		
1067,0	42.000	31,8	1.250		811,79	544.52	1003,4	39.500		
44	44	1118,0	44.000	8,7	0.344		237,99	160.54	1100,6	43.312
		1118,0	44.000	9,5	0.375	STD	259,69	174.88	1099,0	43.250
		1118,0	44.000	10,3	0.406		281,35	189.20	1097,4	43.188
		1118,0	44.000	11,1	0.438		302,99	203.97	1095,8	43.124
		1118,0	44.000	11,9	0.469		324,59	218.25	1094,2	43.062
		1118,0	44.000	12,7	0.500	XS	346,16	232.51	1092,6	43.000
		1118,0	44.000	14,3	0.562		389,21	260.97	1089,4	42.876
		1118,0	44.000	15,9	0.625		432,13	289.80	1086,2	42.750
		1118,0	44.000	17,5	0.688		474,92	318.55	1083,0	42.624
		1118,0	44.000	19,1	0.750		517,59	346.76	1079,8	42.500
		1118,0	44.000	20,6	0.812		557,47	374.88	1076,8	42.376
		1118,0	44.000	22,2	0.875		599,90	403.38	1073,6	42.250
		1118,0	44.000	23,8	0.938		642,19	431.79	1070,4	42.124
		1118,0	44.000	25,4	1.000		684,37	459.67	1067,2	42.000
1118,0	44.000	27,0	1.062		726,41	487.47	1064,0	41.876		
1118,0	44.000	28,6	1.125		768,33	515.63	1060,8	41.750		
1118,0	44.000	30,2	1.188		810,12	543.70	1057,6	41.624		
1118,0	44.000	31,8	1.250		851,79	571.25	1054,4	41.500		
46	46	1168,0	46.000	8,7	0.344		248,72	167.89	1150,6	45.312
		1168,0	46.000	9,5	0.375		271,40	182.90	1149,0	45.250
		1168,0	46.000	10,3	0.406		294,05	197.88	1147,4	45.188
		1168,0	46.000	11,1	0.438		316,67	213.33	1145,8	45.124
		1168,0	46.000	11,9	0.469		339,26	228.27	1144,2	45.062
		1168,0	46.000	12,7	0.500		361,82	243.20	1142,6	45.000
1168,0	46.000	14,3	0.562		406,84	272.98	1139,4	44.876		

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
70	81	122	161	182	196	207	207	207	207	28,6
74	86	131	170	192	207	207	207	207	207	30,2
78	91	139	179	202	207	207	207	207	207	31,8
20	24	147	47	53	57	61	66	71	81	8,7
22	29	155	51	58	62	66	72	77	88	9,5
24	28	163	55	62	67	72	78	84	96	10,3
26	30	43	59	67	72	78	84	90	103	11,1
28	32	46	64	72	77	83	90	97	111	11,9
30	34	50	68	77	83	89	96	103	118	12,7
33	39	54	76	87	93	100	108	117	133	14,3
37	43	58	85	96	104	111	120	130	148	15,9
41	47	62	94	106	114	122	132	143	163	17,5
44	52	70	102	116	124	133	144	156	178	19,1
48	56	78	110	125	134	144	156	168	192	20,6
52	60	86	119	134	145	155	168	181	207	22,2
55	65	93	127	144	155	166	180	194	207	23,8
59	69	101	136	154	165	177	192	207	207	25,4
63	73	109	144	164	176	189	204	207	207	27,0
67	78	116	153	173	186	200	207	207	207	28,6
70	82	124	162	183	197	207	207	207	207	30,2
74	86	132	170	193	207	207	207	207	207	31,8
19	23	140	44	50	54	58	63	68	77	8,7
21	25	148	48	55	59	63	69	74	84	9,5
23	27	156	53	60	64	69	74	80	92	10,3
25	29	41	57	64	69	74	80	86	99	11,1
26	31	44	61	69	74	79	86	93	106	11,9
28	33	48	65	73	79	85	92	99	113	12,7
32	37	67	73	83	89	95	103	111	127	14,3
35	41	74	81	92	99	106	115	124	141	15,9
39	45	82	89	101	109	117	126	136	156	17,5
42	49	89	97	110	119	127	138	149	170	19,1
46	53	96	105	119	128	137	149	160	183	20,6
49	57	104	113	128	138	148	160	173	197	22,2
53	62	111	121	138	148	159	172	185	207	23,8
56	66	119	130	147	158	169	183	198	207	25,4
60	70	126	138	156	168	180	195	207	207	27,0
64	74	134	146	165	178	191	206	207	207	28,6
67	78	141	154	175	188	201	207	207	207	30,2
71	82	148	162	184	198	207	207	207	207	31,8
19	22	39	43	48	52	56	60	65	74	8,7
20	24	42	46	53	57	61	66	71	81	9,5
22	26	46	50	57	61	66	71	77	88	10,3
24	27	50	54	61	66	71	77	83	94	11,1
25	29	53	58	66	71	76	82	89	101	11,9
27	31	57	62	70	76	81	88	95	108	12,7
30	35	64	70	79	85	91	99	106	122	14,3



API 5L line pipe plain end

API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

• TEST PRESSURES

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Weights		Inside diameter	
		mm	inches	mm	inches	Kg/m	lb/ft	mm	inches
46	46	1168,0	46.000	15,9	0.625	451,73	303.16	1136,2	44.750
		1168,0	46.000	17,5	0.688	496,50	333.26	1133,0	44.624
		1168,0	46.000	19,1	0.750	541,14	362.79	1129,8	44.500
		1168,0	46.000	20,6	0.812	582,87	392.24	1126,8	44.376
		1168,0	46.000	22,2	0.875	627,27	422.09	1123,6	44.250
		1168,0	46.000	23,8	0.938	671,54	451.85	1120,4	44.124
		1168,0	46.000	25,4	1.000	715,68	481.05	1117,2	44.000
		1168,0	46.000	27,0	1.062	759,70	510.17	1114,0	43.876
		1168,0	46.000	28,6	1.125	803,59	539.68	1110,8	43.750
		1168,0	46.000	30,2	1.188	847,36	569.10	1107,6	43.624
		1168,0	46.000	31,8	1.250	890,99	597.97	1104,4	43.500
		48	48	1219,0	48.000	8,7	0.344	259,66	175.25	1201,6	47.312
1219,0	48.000			9,5	0.375	283,35	190.92	1200,0	47.250
1219,0	48.000			10,3	0.406	307,01	206.56	1198,4	47.188
1219,0	48.000			11,1	0.438	330,63	222.70	1196,8	47.124
1219,0	48.000			11,9	0.469	354,23	238.30	1195,2	47.062
1219,0	48.000			12,7	0.500	377,79	253.89	1193,6	47.000
1219,0	48.000			14,3	0.562	424,82	285.00	1190,4	46.876
1219,0	48.000			15,9	0.625	471,73	316.52	1187,2	46.750
1219,0	48.000			17,5	0.688	518,51	347.97	1184,0	46.624
1219,0	48.000			19,1	0.750	565,16	378.83	1180,8	46.500
1219,0	48.000			20,6	0.812	608,78	409.61	1177,8	46.376
1219,0	48.000			22,2	0.875	655,19	440.80	1174,6	46.250
1219,0	48.000			23,8	0.938	701,47	471.90	1171,4	46.124
1219,0	48.000			25,4	1.000	747,63	502.43	1168,2	46.000
1219,0	48.000			27,0	1.062	793,66	532.88	1165,0	45.876
1219,0	48.000			28,6	1.125	839,56	563.73	1161,8	45.750
1219,0	48.000			30,2	1.188	885,34	594.50	1158,6	45.624
1219,0	48.000			31,8	1.250	930,99	624.70	1155,4	45.500
52	52	1321,0	52.000	9,5	0.375	307,25	206.95	1302,0	51.250
		1321,0	52.000	10,3	0.406	332,92	223.93	1300,4	51.188
		1321,0	52.000	11,1	0.438	358,55	241.42	1298,8	51.124
		1321,0	52.000	11,9	0.469	384,16	258.36	1297,2	51.062
		1321,0	52.000	12,7	0.500	409,74	275.27	1295,6	51.000
		1321,0	52.000	14,3	0.562	460,79	309.03	1292,4	50.876
		1321,0	52.000	15,9	0.625	511,72	343.25	1289,2	50.750
		1321,0	52.000	17,5	0.688	562,53	377.39	1286,0	50.624
		1321,0	52.000	19,1	0.750	613,20	410.90	1282,8	50.500
		1321,0	52.000	20,6	0.812	660,60	444.33	1279,8	50.376
		1321,0	52.000	22,2	0.875	711,03	478.21	1276,6	50.250
		1321,0	52.000	23,8	0.938	761,34	512.01	1273,4	50.124
		1321,0	52.000	25,4	1.000	811,52	545.19	1270,2	50.000
		1321,0	52.000	27,0	1.062	861,57	578.29	1267,0	49.876
		1321,0	52.000	28,6	1.125	911,50	611.84	1263,8	49.750
		1321,0	52.000	30,2	1.188	961,30	645.30	1260,6	49.624
1321,0	52.000	31,8	1.250	1010,98	678.15	1257,4	49.500		

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
34	39	71	78	88	95	101	110	118	135	15,9
37	43	78	85	97	104	112	121	130	149	17,5
41	47	85	93	106	114	122	132	142	162	19,1
44	51	92	101	114	123	131	142	153	175	20,6
47	55	99	108	123	132	142	153	165	189	22,2
51	59	106	116	132	142	152	164	177	202	23,8
54	63	114	124	141	151	162	175	189	207	25,4
57	67	121	132	149	161	172	186	201	207	27,0
61	71	128	140	158	170	182	197	207	207	28,6
64	75	135	148	167	180	193	207	207	207	30,2
68	79	142	155	176	189	203	207	207	207	31,8
18	21	37	41	46	50	53	58	62	71	8,7
19	23	41	44	50	54	58	63	68	77	9,5
21	24	44	48	55	59	63	68	73	84	10,3
23	26	48	52	59	63	68	73	79	90	11,1
24	28	51	56	63	68	73	79	85	97	11,9
26	30	54	59	67	72	78	84	91	104	12,7
29	34	61	67	76	82	87	95	102	117	14,3
32	38	68	74	84	91	97	105	113	130	15,9
36	42	75	82	93	100	107	116	125	143	17,5
39	45	82	89	101	109	117	126	136	156	19,1
42	49	88	96	109	117	126	136	147	168	20,6
45	53	95	104	118	127	136	147	158	181	22,2
48	56	102	111	126	136	145	157	170	194	23,8
52	60	109	119	135	145	155	168	181	207	25,4
55	64	116	126	143	154	165	179	193	207	27,0
58	68	122	134	152	163	175	189	204	207	28,6
62	72	129	141	160	172	185	200	207	207	30,2
65	75	136	149	169	181	194	207	207	207	31,8
18	21	38	41	46	50	54	58	63	71	9,5
19	23	41	44	50	54	58	63	68	77	10,3
21	24	44	48	54	58	63	68	73	83	11,1
22	26	47	51	58	63	67	73	78	90	11,9
24	28	50	55	62	67	72	78	84	96	12,7
27	31	57	62	70	75	81	87	94	108	14,3
30	35	63	69	78	84	90	97	105	120	15,9
33	38	69	76	86	92	99	107	115	132	17,5
36	42	75	83	93	100	108	117	126	144	19,1
39	45	81	89	101	108	116	126	136	155	20,6
42	49	88	96	109	117	125	136	146	167	22,2
45	52	94	103	116	125	134	145	157	179	23,8
48	56	100	110	124	134	143	155	167	191	25,4
51	59	107	117	132	142	152	165	178	203	27,0
54	63	113	124	140	150	161	175	188	207	28,6
57	66	119	130	148	159	170	184	199	207	30,2
60	70	126	137	156	167	179	194	207	207	31,8

API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Weights		Inside diameter	
		mm	inches	mm	inches	Kg/m	lb/ft	mm	inches
56	56	1422,0	56.000	9,5	0.375	330,91	222.99	1403,0	55.250
		1422,0	56.000	10,3	0.406	358,57	241.29	1401,4	55.188
		1422,0	56.000	11,1	0.438	386,20	260.15	1399,8	55.124
		1422,0	56.000	11,9	0.469	413,80	278.41	1398,2	55.062
		1422,0	56.000	12,7	0.500	441,37	296.65	1396,6	55.000
		1422,0	56.000	14,3	0.562	496,41	333.06	1393,4	54.876
		1422,0	56.000	15,9	0.625	551,32	369.97	1390,2	54.750
		1422,0	56.000	17,5	0.688	606,11	406.80	1387,0	54.624
		1422,0	56.000	19,1	0.750	660,77	442.97	1383,8	54.500
		1422,0	56.000	20,6	0.812	711,91	479.05	1380,8	54.376
		1422,0	56.000	22,2	0.875	766,32	515.63	1377,6	54.250
		1422,0	56.000	23,8	0.938	820,61	552.12	1374,4	54.124
		1422,0	56.000	25,4	1.000	874,78	587.95	1371,2	54.000
		1422,0	56.000	27,0	1.062	928,82	623.70	1368,0	53.876
1422,0	56.000	28,6	1.125	982,73	659.94	1364,8	53.750		
1422,0	56.000	30,2	1.188	1036,52	696.10	1361,6	53.624		
1422,0	56.000	31,8	1.250	1090,18	731.60	1358,4	53.500		
60	60	1524,0	60.000	9,5	0.375	354,80	239.02	1505,0	59.250
		1524,0	60.000	10,3	0.406	384,48	258.65	1503,4	59.188
		1524,0	60.000	11,1	0.438	414,12	278.88	1501,8	59.124
		1524,0	60.000	11,9	0.469	443,73	298.47	1500,2	59.062
		1524,0	60.000	12,7	0.500	473,31	318.03	1498,6	59.000
		1524,0	60.000	14,3	0.562	532,38	357.09	1495,4	58.876
		1524,0	60.000	15,9	0.625	591,32	396.70	1492,2	58.750
		1524,0	60.000	17,5	0.688	650,13	436.22	1489,0	58.624
		1524,0	60.000	19,1	0.750	708,82	475.04	1485,8	58.500
		1524,0	60.000	20,6	0.812	763,72	513.77	1482,8	58.376
		1524,0	60.000	22,2	0.875	822,16	553.04	1479,6	58.250
		1524,0	60.000	23,8	0.938	880,48	592.23	1476,4	58.124
		1524,0	60.000	25,4	1.000	938,67	630.71	1473,2	58.000
		1524,0	60.000	27,0	1.062	996,73	669.11	1470,0	57.876
1524,0	60.000	28,6	1.125	1054,67	708.05	1466,8	57.750		
1524,0	60.000	30,2	1.188	1112,48	746.90	1463,6	57.624		
1524,0	60.000	31,8	1.250	1170,17	785.05	1460,4	57.500		
64	64	1626,0	64.000	9,5	0.375	378,70	255.06	1607,0	63.250
		1626,0	64.000	10,3	0.406	410,38	276.01	1605,4	63.188
		1626,0	64.000	11,1	0.438	442,04	297.61	1603,8	63.124
		1626,0	64.000	11,9	0.469	473,66	318.52	1602,2	63.062
		1626,0	64.000	12,7	0.500	505,26	339.41	1600,6	63.000
		1626,0	64.000	14,3	0.562	568,35	381.12	1597,4	62.876
		1626,0	64.000	15,9	0.625	631,31	423.42	1594,2	62.750
		1626,0	64.000	17,5	0.688	694,15	465.64	1591,0	62.624
		1626,0	64.000	19,1	0.750	756,86	507.11	1587,8	62.500
		1626,0	64.000	20,6	0.812	815,54	548.49	1584,8	62.376
1626,0	64.000	22,2	0.875	878,00	590.46	1581,6	62.250		
1626,0	64.000	23,8	0.938	940,34	632.34	1578,4	62.124		

API 5L line pipe plain end

• TEST PRESSURES

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	mm
17	19	35	38	43	46	50	54	58	66	9,5
18	21	38	41	47	50	54	58	63	72	10,3
19	23	41	45	50	54	58	63	68	78	11,1
21	24	44	48	54	58	62	67	73	83	11,9
22	26	47	51	58	62	67	72	78	89	12,7
25	29	52	57	65	70	75	81	87	100	14,3
28	32	58	64	72	78	83	90	97	111	15,9
31	36	64	70	80	86	92	99	107	122	17,5
33	39	70	77	87	93	100	108	117	133	19,1
36	42	76	83	94	101	108	117	126	144	20,6
39	45	81	89	101	108	116	126	136	155	22,2
42	48	87	96	108	116	125	135	146	166	23,8
44	52	93	102	115	124	133	144	155	177	25,4
47	55	99	108	123	132	141	153	165	189	27,0
50	58	105	115	130	140	150	162	175	200	28,6
53	61	111	121	137	148	158	171	185	207	30,2
56	65	117	128	145	155	167	180	194	207	31,8
15	18	33	36	40	43	46	50	54	62	9,5
17	20	35	39	44	47	50	55	59	67	10,3
18	21	38	42	47	51	54	59	63	72	11,1
19	23	41	45	50	54	58	63	68	78	11,9
21	24	44	48	54	58	62	67	72	83	12,7
23	27	49	54	61	65	70	76	82	93	14,3
26	30	54	60	67	72	78	84	91	104	15,9
29	33	60	66	74	80	86	93	100	114	17,5
31	36	65	72	81	87	93	101	109	125	19,1
34	39	71	77	87	94	101	109	118	134	20,6
36	42	76	83	94	101	109	117	127	145	22,2
39	45	82	89	101	109	116	126	136	155	23,8
41	48	87	95	108	116	124	134	145	166	25,4
44	51	92	101	114	123	132	143	154	176	27,0
47	54	98	107	121	130	140	151	163	186	28,6
49	57	103	113	128	138	148	160	172	197	30,2
52	60	109	119	135	145	155	168	181	207	31,8
15	17	30	33	38	41	44	47	51	58	9,5
16	18	33	36	41	44	47	51	55	63	10,3
17	20	36	39	44	47	51	55	59	68	11,1
18	21	38	42	47	51	55	59	64	73	11,9
19	23	41	45	50	54	58	63	68	78	12,7
22	25	46	50	57	61	66	71	76	87	14,3
24	28	51	56	63	68	73	79	85	97	15,9
27	31	56	61	70	75	80	87	94	107	17,5
29	34	61	67	76	82	88	95	102	117	19,1
31	37	66	72	82	88	94	102	110	126	20,6
34	39	71	78	88	95	102	110	119	136	22,2
36	42	76	84	95	102	109	118	127	145	23,8



API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Weights		Inside diameter	
		mm	inches	mm	inches	Kg/m	lb/ft	mm	inches
64	64	1626,0	64.000	25,4	1.000	1002,56	673.47	1575,2	62.000
		1626,0	64.000	27,0	1.062	1064,65	714.52	1572,0	61.876
		1626,0	64.000	28,6	1.125	1126,61	756.15	1568,8	61.750
		1626,0	64.000	30,2	1.188	1188,44	797.69	1565,6	61.624
		1626,0	64.000	31,8	1.250	1250,15	838.50	1562,4	61.500
68	68	1727,0	68.000	11,9	0.469	503,30	338.57	1703,2	67.062
		1727,0	68.000	12,7	0.500	536,89	360.79	1701,6	67.000
		1727,0	68.000	14,3	0.562	603,96	405.15	1698,4	66.876
		1727,0	68.000	15,9	0.625	670,91	450.15	1695,2	66.750
		1727,0	68.000	17,5	0.688	737,73	495.06	1692,0	66.624
		1727,0	68.000	19,1	0.750	804,43	539.18	1688,8	66.500
		1727,0	68.000	20,6	0.812	866,84	583.21	1685,8	66.376
		1727,0	68.000	22,2	0.875	933,30	627.87	1682,6	66.250
		1727,0	68.000	23,8	0.938	999,62	672.45	1679,4	66.124
		1727,0	68.000	25,4	1.000	1065,82	716.23	1676,2	66.000
		1727,0	68.000	27,0	1.062	1131,89	759.93	1673,0	65.876
		1727,0	68.000	28,6	1.125	1197,84	804.26	1669,8	65.750
		1727,0	68.000	30,2	1.188	1263,66	848.49	1666,6	65.624
		1727,0	68.000	31,8	1.250	1329,36	891.95	1663,4	65.500
		1829,0	72.000	12,7	0.500	568,83	382.17	1803,6	71.000
72	72	1829,0	72.000	14,3	0.562	639,93	429.18	1800,4	70.876
		1829,0	72.000	15,9	0.625	710,91	476.87	1797,2	70.750
		1829,0	72.000	17,5	0.688	781,75	524.48	1794,0	70.624
		1829,0	72.000	19,1	0.750	852,47	571.25	1790,8	70.500
		1829,0	72.000	20,6	0.812	918,66	617.93	1787,8	70.376
		1829,0	72.000	22,2	0.875	989,14	665.29	1784,6	70.250
		1829,0	72.000	23,8	0.938	1059,49	712.55	1781,4	70.124
		1829,0	72.000	25,4	1.000	1129,71	758.99	1778,2	70.000
		1829,0	72.000	27,0	1.062	1199,81	805.34	1775,0	69.876
		1829,0	72.000	28,6	1.125	1269,78	852.36	1771,8	69.750
		1829,0	72.000	30,2	1.188	1339,62	899.29	1768,6	69.624
		1829,0	72.000	31,8	1.250	1409,34	945.40	1765,4	69.500
		76	76	1930,0	76.000	12,7	0.500	600,46	403.55	1904,6	75.000
1930,0	76.000			14,3	0.562	675,55	453.21	1901,4	74.876
1930,0	76.000			15,9	0.625	750,51	503.60	1898,2	74.750
1930,0	76.000			17,5	0.688	825,34	553.90	1895,0	74.624
1930,0	76.000			19,1	0.750	900,05	603.32	1891,8	74.500
1930,0	76.000			20,6	0.812	969,97	652.65	1888,8	74.376
1930,0	76.000			22,2	0.875	1044,43	702.70	1885,6	74.250
1930,0	76.000			23,8	0.938	1118,76	752.66	1882,4	74.124
1930,0	76.000			25,4	1.000	1192,97	801.75	1879,2	74.000
1930,0	76.000			27,0	1.062	1267,06	850.75	1876,0	73.876
1930,0	76.000			28,6	1.125	1341,02	900.47	1872,8	73.750
1930,0	76.000			30,2	1.188	1414,84	950.09	1869,6	73.624
1930,0	76.000			31,8	1.250	1488,55	998.85	1866,4	73.500
80	80	2032,0	80.000	14,3	0.562	711,52	477.25	2003,4	78.876

API 5L line pipe plain end

• TEST PRESSURES

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	mm
39	45	82	89	101	109	116	126	136	155	25,4
41	48	87	95	107	115	124	134	144	165	27,0
44	51	92	100	114	122	131	142	153	175	28,6
46	54	97	106	120	129	138	150	161	185	30,2
49	57	102	112	126	136	146	158	170	194	31,8
17	20	36	39	45	48	51	56	60	68	11,9
18	21	38	42	48	51	55	59	64	73	12,7
21	24	43	47	54	58	62	67	72	82	14,3
23	27	48	53	59	64	69	74	80	91	15,9
25	29	53	58	65	70	76	82	88	101	17,5
27	32	58	63	71	77	82	89	96	110	19,1
30	34	62	68	77	83	89	96	104	119	20,6
32	37	67	73	83	89	96	104	112	128	22,2
34	40	72	79	89	96	103	111	120	137	23,8
37	43	77	84	95	102	110	119	128	146	25,4
39	45	82	89	101	109	117	126	136	155	27,0
41	48	86	94	107	115	123	134	144	165	28,6
43	51	91	100	113	121	130	141	152	174	30,2
46	53	96	105	119	128	137	148	160	183	31,8
17	20	36	40	45	48	52	56	60	69	12,7
19	23	41	45	51	54	58	63	68	78	14,3
22	25	45	50	56	60	65	70	76	86	15,9
24	28	50	55	62	66	71	77	83	95	17,5
26	30	55	60	67	73	78	84	91	104	19,1
28	33	59	64	73	78	84	91	98	112	20,6
30	35	63	69	78	84	90	98	106	121	22,2
32	38	68	74	84	90	97	105	113	129	23,8
34	40	72	79	90	96	103	112	121	138	25,4
37	43	77	84	95	103	110	119	128	147	27,0
39	45	82	89	101	109	117	126	136	155	28,6
41	48	86	94	107	115	123	133	144	164	30,2
43	50	91	99	112	121	130	140	151	173	31,8
16	19	34	38	43	46	49	53	57	65	12,7
18	21	39	42	48	51	55	60	64	74	14,3
20	24	43	47	53	57	61	66	72	82	15,9
23	26	47	52	59	63	68	73	79	90	17,5
25	29	52	56	64	69	74	80	86	98	19,1
27	31	56	61	69	74	80	86	93	106	20,6
29	33	60	66	74	80	86	93	100	114	22,2
31	36	64	70	80	86	92	99	107	123	23,8
33	38	69	75	85	91	98	106	114	131	25,4
35	40	73	80	90	97	104	113	122	139	27,0
37	43	77	85	96	103	110	119	129	147	28,6
39	45	82	89	101	109	117	126	136	155	30,2
41	48	86	94	106	114	123	133	143	164	31,8
17	20	37	40	45	49	52	57	61	70	14,3



API 5L line pipe plain end

• DIMENSIONS, WEIGHTS

Diameter Nominal NPS	Dimension Nominal size	Outside diameter		Wall thickness		Weights		Inside diameter	
		mm	inches	mm	inches	Kg/m	lb /ft	mm	inches
80	80	2032,0	80.000	15,9	0.625	790,50	530.32	2000,2	78.750
		2032,0	80.000	17,5	0.688	869,36	583.32	1997,0	78.624
		2032,0	80.000	19,1	0.750	948,09	635.39	1993,8	78.500
		2032,0	80.000	20,6	0.812	1021,78	687.37	1990,8	78.375
		2032,0	80.000	22,2	0.875	1100,27	740.12	1987,6	78.250
		2032,0	80.000	23,8	0.938	1178,63	792.77	1984,4	78.124
		2032,0	80.000	25,4	1.000	1256,86	844.51	1981,2	78.000
		2032,0	80.000	27,0	1.062	1334,97	896.17	1978,0	77.875
		2032,0	80.000	28,6	1.125	1412,95	948.57	1974,8	77.750
		2032,0	80.000	30,2	1.188	1490,80	1000.89	1971,6	77.624
2032,0	80.000	31,8	1.250	1568,53	1052.30	1968,4	77.500		

API 5L line pipe plain end

• TEST PRESSURES

Mini test pressure										
A	B	X42	X46	X52	X56	X60	X65	X70	X80	W.T.
bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	mm
STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
19	23	41	45	51	54	58	63	68	78	15,9
21	25	45	49	56	60	64	69	75	86	17,5
23	27	49	54	61	65	70	76	82	93	19,1
25	29	53	58	66	70	76	82	88	101	20,6
27	32	57	62	71	76	81	88	95	109	22,2
29	34	61	67	76	81	87	94	102	116	23,8
31	36	65	71	81	87	93	101	109	124	25,4
33	38	69	76	86	92	99	107	116	132	27,0
35	41	73	80	91	98	105	113	122	140	28,6
37	43	78	85	96	103	111	120	129	148	30,2
39	45	82	89	101	109	117	126	136	155	31,8

API 5CT

• CHEMICAL REQUIREMENTS (in %)

Group	Grade	Type	Usage	C		Mn		Mo		Cr		Ni	Cu	P	S	Si
				min	max	min	max	min	max	min	max	max	max	max	max	
1	H 40	-	C-T	-	-	-	-	-	-	-	-	-	0.030	0.030	-	-
	J 55	-	C-T	-	-	-	-	-	-	-	-	-	0.030	0.030	-	-
	K 55	-	C	-	-	-	-	-	-	-	-	-	0.030	0.030	-	-
2	N 80	-	C-T	-	-	-	-	-	-	-	-	-	0.030	0.030	-	-
	M 65	-	C	-	-	-	-	-	-	-	-	-	0.030	0.030	-	-
	L 80	1	C-T	-	0.43 (1)	-	1.90	-	-	-	-	0.25	0.35	0.030	0.030	0.45
	L 80	9Cr	C-T	-	0.15	0.30	0.60	0.90	1.10	8.0	10.0	0.50	0.25	0.020	0.010	1.0
	L 80	13Cr	C-T	0.15	0.22	0.25	1.00	-	-	12.0	14.0	0.50	0.25	0.020	0.010	1.0
	C 90	1	C-T	-	0.35	-	1.00	0.25 (2)	0.75	-	1.20	0.99	-	0.020	0.010	-
	C 90	2	C-T	-	0.50	-	1.90	-	NL	-	NL	0.99	-	0.030	0.010	-
	C 95	-	C	-	0.45 (3)	-	1.90	-	-	-	-	-	-	0.030	0.030	0.45
	T 95	1	C-T	-	0.35	-	1.20	0.25 (4)	0.85	0.40	1.50	0.99	-	0.020	0.010	-
	T 95	2	C-T	-	0.50	-	1.90	-	-	-	-	0.99	-	0.030	0.010	-
3	P 110	-	C-T	-	-	-	-	-	-	-	-	-	0.030 (5)	0.030 (5)	-	-
4	Q 125	1	C	-	0.35	-	1.00	-	0.75	-	1.20	0.99	-	0.020	0.010	-
	Q 125	2	C	-	0.35	-	1.00	-	NL	-	NL	0.99	-	0.020	0.020	-
	Q 125	3	C	-	0.50	-	1.90	-	NL	-	NL	0.99	-	0.030	0.010	-
	Q 125	4	C	-	0.50	-	1.90	-	NL	-	NL	0.99	-	0.030	0.020	-

NL: No limit C: Casing T: Tubing
 (1) The carbon content for L 80 may be increased to 0.50 % maxi if the product is oil quenched.
 (2) No minimum tolerance if the wall thickness is less than 0.700 inches for C 90 grade.
 (3) The carbon content for C 95 may be increased to 0.55 % maxi if the product is oil quenched.
 (4) The molybdenum content for grade T 95-Type 1 may be decreased to 0.15 % minimum if the wall thickness is less than 0.700 inches.
 (5) The phosphorous is 0.020 % maximum and the sulfur is 0.010 % maximum for EW (electric weld, resistance or induction, without the addition of filler metal) grade P 110.

API 5CT

• TENSILE REQUIREMENTS

Group	Grade	Process of manufacture	Heat treatment	Yield strength				Tensile strength min		Elongation	Hardness maxi	
				min		max		Ksi	MPa		HRC	BHN
				Ksi	MPa	Ksi	MPa					
1	H 40	S or EW	none	40.0	276	80.0	552	60.0	414	-	-	
	J 55	S or EW	none (2)	55.0	379	80.0	552	75.0	517	-	-	
	K 55	S or EW	none (2)	55.0	379	80.0	552	95.0	655	-	-	
	N 80	S or EW	note (2)	80.0	552	110.0	758	100.0	689	-	-	
2	M 65	S or EW	note (2)	65.0	448	85.0	586	85.0	586	22	235	
	L 80 1	S or EW	QT	80.0	552	95.0	655	95.0	655	23	241	
	L 80 9 Cr	S	QT (3)	80.0	552	95.0	655	95.0	655	23	241	
	L 80 13 Cr	S	QT (3)	80.0	552	95.0	655	95.0	655	23	241	
	C 90 1 & 2	S	QT	90.0	620	105.0	724	100.0	690	25.4	255	
	C 95	S or EW	QT	95.0	655	110.0	758	105.0	724	-	-	
	T 95 1 & 2	S	QT	95.0	655	110.0	758	105.0	724	25.4	255	
3	P 110	S or EW	QT	110.0	758	140.0	965	125.0	862	-	-	
4	Q 125	S or EW	QT	125.0	860	150.0	1035	135.0	930	-	-	

S=seamless

EW=electric weld (resistance or induction) without the addition of filler metal.

QT= quenched and tempered

1) The minimum elongation in 2 in. (50.8 mm) shall be that determined by the following formula (inch-pound units):

$$e = 625,000 \frac{A0.2}{U0.9} \text{ where}$$

e = minimum elongation in 2 in. (50.8 mm) in percent to nearest 1/2 percent. A = cross-sectional area of the tensile test specimen in sq. in.

U = specified minimum ultimate tensile strength in ksi.

2) Full length normalized (N), normalized and tempered (NT), or quenched and tempered (QT), at manufacturer's option

or if so specified on the purchase order.

N: normalized T: tempered Q: quenched

3) Types 9 Cr and 13 Cr may be air quenched.

API 5CT

• TOLERANCE

On outside diameter	Pipe body	4in. and smaller	"0.79 ± 0.031± mm)
		4 1/2 in. and larger	+1% -0.50%
On wall thickness			-12.5%
On weight		-single length	+6.5% -3.5%
		-carload lots or order items (minimum 40,000 lbs)	-1.75%
		-carload lots or order items (less than 40,000 lbs)	-3.5%

API 5 CT specification

• Casing pipe

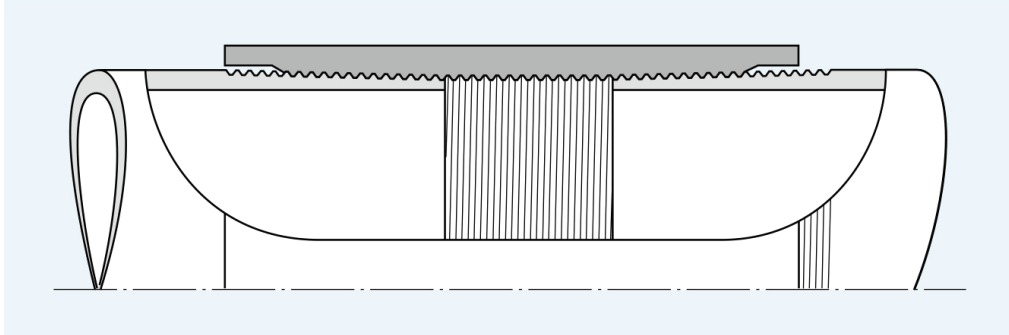
		Pipes					
		Range 1		Range 2		Range 3	
		m	ft	m	ft	m	ft
On length		Casing					
	total range length	4.88 7.62	16 25	7.62 10.36	25 34	10.36 14.63	34 48
	• for 95 % or more of carload – permissible variation, maxi – permissible length, mini	1.83 5.49	6 18	1.52 8.53	5 28	1.83 10.97	6 36
		Tubing					
	Total rang length	6.10 7.32	20 24	8.53 9.75	28 32	-	-
	• for 100 % of carload – permissible variation, maxi	0.61	2	0.61	2	-	-
		Pipe joint					
	length	0.61 m (2 ft) – 0.91 m (3 ft) – 1.22 m (4 ft) 1.83 m (6 ft) – 2.44 m (8 ft) – 3.05 m (10 ft) 3.66 m (12 ft)					
	• Tolerances	± 76.2 mm (± 3")					



Casing Pipe

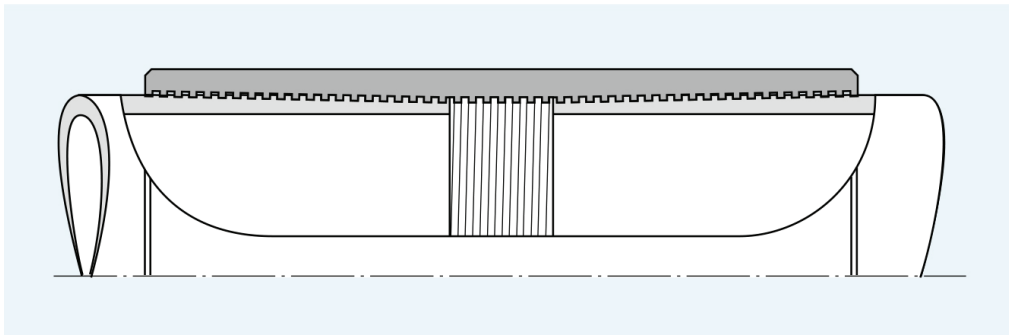
API ROUND THREAD

The pipe is threaded at both ends to have a thread pin ; the pipes are joined together by means of a coupling. To API specifications, short or long threads with corresponding couplings are available. Long thread casing can transmit higher axial loads than short thread casing



API BUTTRESS

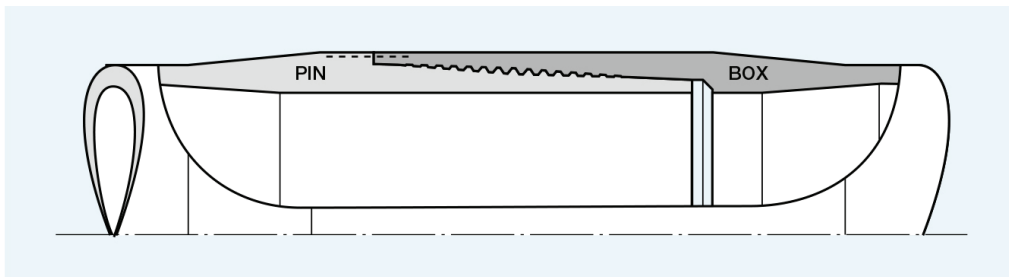
The connecting system is identical to round thread. Instead of the «round thread», there is a «buttress» type thread which allows the transmission of very high axial loads.



Casing pipe (cont'd)

API EXTREME-LINE

Pipes completely differ from the 2 previous types. Ends of pipe are slightly upset where box and pin threads are. In addition, the bottom of the box thread is provided with a machined area where the threaded pin will be pre





API 5CT casing pipe

• DIMENSIONS, WEIGHTS

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress				
						Wall thickness		Inside diameter		Drift diameter		outside dia.				
												Regular		Special clearance		
						inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
4 1/2	4.500	114.3	9.50	14,2	H40	0.205	5,21	4.090	103,9	3.965	100,71	–	–	–	–	
			9.50	14,2		0.205	5,21	4.090	103,9	3.965	100,71	–	–	–	–	
			10.50	15,6	J/K55	0.224	5,69	4.052	102,9	3.927	99,75	5.000	127,0	4.875	123,8	
			11.60	17,3		0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			11.60	17,3	N80	0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
			9.50	14,2	M65	0.205	5,21	4.090	103,9	3.965	100,71	–	–	–	–	
			10.50	15,6		0.224	5,69	4.052	102,9	3.927	99,75	5.000	127,0	4.875	123,8	
			11.60	17,3		0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
			11.60	17,3	L80	0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
			11.60	17,3	C90	0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
			11.60	17,3	C95	0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
			11.60	17,3	T95	0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
			11.60	17,3	P110	0.250	6,35	4.000	101,5	3.875	98,43	5.000	127,0	4.875	123,8	
			13.50	20,1		0.290	7,37	3.920	99,5	3.795	96,39	5.000	127,0	4.875	123,8	
15.10	22,5	Q125	0.337	8,56	3.826	97,2	3.701	94,01	5.000	127,0	4.875	123,8				
15.10	22,5		0.337	8,56	3.826	97,2	3.701	94,01	5.000	127,0	–	–				
5	5.000	127.0	11.50	17,1	J/K55	0.220	5,59	4.560	115,8	4.435	112,65	–	–	–	–	
			13.00	19,4		0.253	6,43	4.494	114,2	4.369	110,97	5.563	141,3	5.375	136,5	
			15.00	22,3		0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5	
			15.00	22,3	N80	0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5	
			18.00	26,8		0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5	
			21.40	31,9		0.437	11,10	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5	
			23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	5.375	136,5	
			24.10	35,9		0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	5.375	136,5	
			11.50	17,1	M65	0.220	5,59	4.560	115,8	4.435	112,65	–	–	–	–	
			13.00	19,4		0.253	6,43	4.494	114,2	4.369	110,97	5.563	141,3	5.375	136,5	
			15.00	22,3		0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5	
			18.00	26,8		0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5	
			21.40	31,9		0.437	11,10	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5	
			15.00	22,3		L80	0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5
			15.00	22,3			0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5

• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KS	KS	KS	KS	KS	KS	mm	in	in
–	–	–	–	2,9	–	2,9	–	–	–	114.3	4.500	4 1/2
–	–	–	–	3,0	3,0	3,0	–	–	–			
–	–	–	–	3,0	3,0	3,0	–	3,0	3,0			
–	–	–	–	3,0	3,0	3,0	3,0	3,0	3,0			
–	–	–	–	3,0	7,1	–	7,1	7,1	6,4			
–	–	–	–	3,0	8,2	–	8,2	7,8	6,4			
–	–	–	–	3,0	4,7	4,7	–	–	–			
–	–	–	–	3,0	5,2	5,2	–	5,2	5,2			
–	–	–	–	3,0	5,8	5,8	5,8	5,8	5,8			
–	–	–	–	3,0	6,7	–	6,7	6,7	6,4			
–	–	–	–	3,0	7,1	–	7,1	7,1	6,4			
–	–	–	–	3,0	8,2	–	8,2	7,8	6,4			
–	–	–	–	3,0	–	–	8,0	8,0	7,2			
–	–	–	–	3,0	–	–	9,3	8,8	7,2			
–	–	–	–	3,0	8,4	–	8,4	8,4	7,6			
–	–	–	–	3,0	9,8	–	9,8	9,3	7,6			
–	–	–	–	3,0	8,4	–	8,4	8,4	7,6			
–	–	–	–	3,0	9,8	–	9,8	9,3	7,6			
–	–	–	–	3,0	9,8	–	9,8	9,8	8,8			
–	–	–	–	3,0	10,0	–	10,0	10,0	8,8			
–	–	–	–	3,0	10,0	–	10,0	10,0	8,8			
–	–	–	–	10,0	10,0	–	10,0	10,0	–			
–	–	–	–	3,0	3,0	3,0	–	–	–			
–	–	–	–	3,0	3,0	3,0	3,0	3,0	3,0			
4.151	105,44	5.360	136,1	3,0	3,0	3,0	3,0	3,0	3,0			
4.151	105,44	5.360	136,1	3,0	7,6	–	7,6	7,6	6,0			
4.151	105,44	5.360	136,1	3,0	9,3	–	8,7	7,9	6,0			
–	–	–	–	3,0	10,0	–	8,7	7,9	6,0			
–	–	–	–	3,0	10,0	–	8,7	7,9	6,0			
–	–	–	–	3,0	10,0	–	8,7	7,9	6,0			
–	–	–	–	3,0	4,6	4,6	–	–	–			
–	–	–	–	3,0	5,3	5,3	5,3	5,3	5,3			
4.151	105,44	5.360	136,1	3,0	6,2	6,2	6,2	6,2	6,0			
4.151	105,44	5.360	136,1	3,0	7,5	–	7,5	7,5	6,0			
–	–	–	–	3,0	9,1	–	8,7	7,9	6,0			
4.151	105,44	5.360	136,1	3,0	7,6	–	7,6	7,6	6,0			



API 5CT casing pipe

API 5CT casing pipe

• DIMENSIONS, WEIGHTS

• HYDROSTATIC TEST PRESSURE

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress			
						Wall thickness		Inside diameter		Drift diameter		outside dia.			
												Regular		Special clearance	
inch	inch	mm	lb/ft	kg/m		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
5	5.000	127.0	18.00	26,8	L80	0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5
			21.40	31,9		0.437	11,10	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5
			23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	5.375	136,5
			24.10	35,9		0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	5.375	136,5
			15.00	22,3	C90	0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5
			18.00	26,8		0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5
			21.40	31,9		0.437	11,10	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5
			23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	5.375	136,5
			24.10	35,9	0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	5.375	136,5	
			15.00	22,3	C95	0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5
			18.00	26,8		0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5
			21.40	31,9		0.437	11,10	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5
			23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	5.375	136,5
			24.10	35,9	0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	5.375	136,5	
			15.00	22,3	T95	0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5
			18.00	26,8		0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5
			21.40	31,9		0.437	11,10	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5
			23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	5.375	136,5
			24.10	35,9	0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	5.375	136,5	
			15.00	22,3	P110	0.296	7,52	4.408	112,0	4.283	108,79	5.563	141,3	5.375	136,5
			18.00	26,8		0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	5.375	136,5
			21.40	31,9		0.437	11,19	4.126	104,8	4.001	101,63	5.563	141,3	5.375	136,5
			23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	5.375	136,5
			24.10	35,9	0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	5.375	136,5	
18.00	26,8	Q125	0.362	9,19	4.276	108,6	4.151	105,44	5.563	141,3	-	-			
21.40	31,9		0.437	11,19	4.126	104,8	4.001	101,63	5.563	141,3	-	-			
23.20	34,6		0.478	12,14	4.044	102,8	3.919	99,54	5.563	141,3	-	-			
24.10	35,9		0.500	12,70	4.000	101,6	3.875	98,43	5.563	141,3	-	-			
5 1/2	5.500	139.7	14.00	20,9	H40	0.244	6,20	5.012	127,3	4.887	124,13	-	-	-	-
			14.00	20,9		0.244	6,20	5.012	127,3	4.887	124,13	-	-	-	-
			15.50	23,1	J/K55	0.275	6,98	4.950	125,7	4.825	122,56	6.050	153,7	5.875	149,2
			17.00	25,3		0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2
			17.00	25,3		0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2
			20.00	29,8	N80	0.361	9,17	4.778	121,3	4.653	118,19	6.050	153,7	5.875	149,2
23.00	34,3		0.415	10,54	4.670	118,7	4.545	115,44	6.050	153,7	5.875	149,2			

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
4.151	105,44	5.360	136,1	3,0	9,3	-	8,7	7,9	6,0	5	5.000	127.0
-	-	-	-	3,0	10,0	-	8,7	7,9	6,0			
-	-	-	-	3,0	10,0	-	8,7	7,9	6,0			
-	-	-	-	3,0	10,0	-	8,7	7,9	6,0			
-	-	-	-	3,0	-	-	8,5	8,5	6,7			
-	-	-	-	3,0	-	-	9,7	8,9	6,7			
-	-	-	-	3,0	-	-	9,7	8,9	6,7			
-	-	-	-	3,0	-	-	9,7	8,9	6,7			
-	-	-	-	3,0	-	-	9,7	8,9	6,7			
4.151	105,44	5.360	136,1	3,0	9,0	-	9,0	9,0	7,1			
4.151	105,44	5.360	136,1	3,0	10,0	-	10,0	9,4	7,1			
-	-	-	-	3,0	10,0	-	10,0	9,4	7,1			
-	-	-	-	3,0	10,0	-	10,0	9,4	7,1			
-	-	-	-	3,0	10,0	-	10,0	9,4	7,1			
4.151	105,44	5.360	136,1	3,0	9,0	-	9,0	9,0	7,1			
4.151	105,44	5.360	136,1	3,0	10,0	-	10,0	9,4	7,1			
-	-	-	-	3,0	10,0	-	10,0	9,4	7,1			
-	-	-	-	3,0	10,0	-	10,0	9,4	7,1			
4.151	105,44	5.360	136,1	3,0	10,0	-	10,0	10,0	8,2			
4.151	105,44	5.360	136,1	3,0	10,0	-	10,0	10,0	8,2			
-	-	-	-	3,0	10,0	-	10,0	10,0	8,2			
-	-	-	-	3,0	10,0	-	10,0	10,0	8,2			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	2,8	-	2,8	-	-	-			
-	-	-	-	3,0	3,0	3,0	-	-	-			
4.653	118,19	5.860	148,8	3,0	3,0	3,0	3,0	3,0	3,0			
4.653	118,19	5.860	148,8	3,0	3,0	3,0	3,0	3,0	3,0			
4.653	118,19	5.860	148,8	3,0	7,1	-	7,1	7,1	5,5			
4.653	118,19	5.860	148,8	3,0	8,4	-	7,9	7,2	5,5			
4.545	115,44	5.860	148,8	3,0	9,7	-	7,9	7,2	5,5			



API 5CT casing pipe

• DIMENSIONS, WEIGHTS

Size designati		Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe					Buttress				
							Wall thickness		Inside diameter		Drift diameter		outside dia.			
													Regular		Special clearance	
inch	mm	lb/ft	kg/m	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
5 1/2	5.500	139.7	14.00	20,9	M65	0.244	6,20	5.012	127,3	4.887	124,13	-	-	-	-	
			15.50	23,1		0.275	6,98	4.950	125,7	4.825	122,56	6.050	153,7	5.875	149,2	
			17.00	25,3		0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2	
			20.00	29,8		0.361	9,17	4.778	121,3	4.653	118,19	6.050	153,7	5.875	149,2	
			23.00	34,3		0.415	10,54	4.670	118,7	4.545	115,44	6.050	153,7	5.875	149,2	
			17.00	25,3		L80	0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2
			20.00	29,8	0.361		9,17	4.778	121,3	4.653	118,19	6.050	153,7	5.875	149,2	
			23.00	34,3	0.415		10,54	4.670	118,7	4.545	115,44	6.050	153,7	5.875	149,2	
			17.00	25,3	C90		0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2
			20.00	29,8			0.361	9,17	4.778	121,3	4.653	118,19	6.050	153,7	5.875	149,2
			23.00	34,3			0.415	10,54	4.670	118,7	4.545	115,44	6.050	153,7	5.875	149,2
			26.80	39,9		0.500	12,70	4.500	114,3	4.375	111,12	-	-	-	-	
			29.70	44,2		0.562	14,27	4.376	114,2	4.251	107,97	-	-	-	-	
			32.60	48,5		0.625	15,88	4.250	107,9	4.125	104,77	-	-	-	-	
			35.30	52,5	0.687	17,45	4.126	104,8	4.001	101,62	-	-	-	-		
			38.00	56,5	0.750	19,05	4.000	101,6	3.875	98,42	-	-	-	-		
			40.50	60,3	0.812	20,62	3.876	98,4	3.751	95,27	-	-	-	-		
			43.10	64,1	0.875	22,23	3.750	95,2	3.625	92,07	-	-	-	-		
			17.00	25,3	C95	0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2	
			20.00	29,8		0.361	9,17	4.778	121,3	4.653	118,19	6.050	153,7	5.875	149,2	
			23.00	34,3		0.415	10,54	4.670	118,7	4.545	115,44	6.050	153,7	5.875	149,2	
			17.00	25,3		T95	0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2
			20.00	29,8			0.361	9,17	4.778	121,3	4.653	118,19	6.050	153,7	5.875	149,2
			23.00	34,3			0.415	10,54	4.670	118,7	4.545	115,44	6.050	153,7	5.875	149,2
			26.80	39,9	0.500		12,70	4.500	114,3	4.375	111,13	-	-	-	-	
			29.70	44,2	0.562		14,27	4.376	111,2	4.251	107,98	-	-	-	-	
			32.60	48,5	0.625		15,88	4.250	108,0	4.125	104,77	-	-	-	-	
			35.30	52,5	0.687	17,45	4.126	104,8	4.001	101,62	-	-	-	-		
			38.00	56,6	0.750	19,05	4.000	101,6	3.875	98,42	-	-	-	-		
			40.50	60,3	0.812	20,63	3.876	98,5	3.751	95,27	-	-	-	-		
			43.10	64,1	0.875	22,22	3.750	95,3	3.625	92,07	-	-	-	-		
			17.00	25,3	P110	0.304	7,72	4.892	124,3	4.767	121,08	6.050	153,7	5.875	149,2	
20.00	29,8	0.361	9,17	4.778		121,3	4.653	118,19	6.050	153,7	5.875	149,2				
23.00	34,3	0.415	10,54	4.670		118,7	4.545	115,44	6.050	153,7	5.875	149,2				
23.00	34,3	Q125	0.415	10,54		4.670	118,7	4.545	115,44	6.050	153,7	-	-			

API 5CT casing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line		Plain-end	Extreme-line	Round thread		Buttress						
Drift diameter	Outside diameter			Short	Long	Regular	Special clearance					
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	3,0	4,6	4,6	-	-	-	5 1/2	5.500	139.7
4.653	118,19	5.860	148,8	3,0	5,2	5,2	5,2	5,2	5,2			
4.653	118,19	5.860	148,8	3,0	5,7	5,7	5,7	5,7	5,5			
4.653	118,19	5.860	148,8	3,0	6,8	-	6,8	6,8	5,5			
4.545	115,44	5.860	148,8	3,0	7,8	-	7,0	7,2	5,5			
4.653	118,19	5.860	148,8	3,0	7,1	-	7,1	7,1	5,5			
4.653	118,19	5.860	148,8	3,0	8,4	-	7,9	7,2	5,5			
4.545	115,44	5.860	148,8	3,0	9,7	-	7,9	7,2	5,5			
-	-	-	-	3,0	-	-	8,0	8,0	6,2			
-	-	-	-	3,0	-	-	8,9	8,1	6,2			
-	-	-	-	3,0	-	-	8,9	8,1	6,2			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
4.653	118,19	5.860	148,8	3,0	8,4	-	8,4	8,4	6,5			
4.653	118,19	5.860	148,8	3,0	10,0	-	9,4	8,5	6,5			
4.545	115,44	5.860	148,8	3,0	10,0	-	9,4	8,5	6,5			
4.653	118,19	5.860	148,8	3,0	8,4	-	8,4	8,4	6,5			
4.653	118,19	5.860	148,8	3,0	10,0	-	9,4	8,5	6,5			
4.545	115,44	5.860	148,8	3,0	10,0	-	9,4	8,5	6,5			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
4.653	118,19	5.860	148,8	3,0	9,7	-	9,7	9,7	7,6			
4.653	118,19	5.860	148,8	3,0	10,0	-	10,0	9,9	7,6			
4.545	115,44	5.860	148,8	3,0	10,0	-	10,0	9,9	7,6			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			

API 5CT casing pipe
• DIMENSIONS, WEIGHTS

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress				
						Wall thickness		Inside diameter		Drift diameter		outside dia.				
												Regular		Special clearance		
inch	inch	mm	lb/ft	kg/m		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
6 5/8	6.625	168.3	20.00	29,8	H40	0.288	7,32	6.049	153,7	5.924	150,47	7.390	187,7	-	-	
			20.00	29,8		J/K55	0.288	7,32	6.049	153,7	5.924	150,47	7.390	187,7	7.000	177,8
			24.00	35,7			0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8
			24.00	35,7	N80	0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7		0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8	
			32.00	47,7	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	7.000	177,8		
			20.00	29,8	M65	0.288	7,32	6.049	153,7	5.924	150,47	7.390	187,7	7.000	177,8	
			24.00	35,7		0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7	0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8		
			24.00	35,7	L80	0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7		0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8	
			32.00	47,7	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	7.000	177,8		
			24.00	35,7	C90	0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7		0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8	
			32.00	47,7	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	7.000	177,8		
			24.00	35,7	C95	0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7		0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8	
			32.00	47,7	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	7.000	177,8		
			24.00	35,7	T95	0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7		0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8	
			32.00	47,7	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	7.000	177,8		
			24.00	35,7	P110	0.352	8,94	5.921	150,4	5.796	147,22	7.390	187,7	7.000	177,8	
			28.00	41,7		0.417	10,59	5.791	147,1	5.666	143,92	7.390	187,7	7.000	177,8	
			32.00	47,7	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	7.000	177,8		
32.00	47,7	Q125	0.475	12,06	5.675	144,1	5.550	140,97	7.390	187,7	-	-				
7	7.000	177.8	17.00	25,3	H40	0.231	5,87	6.538	166,1	6.413	162,89	-	-	-	-	
			20.00	29,8		0.272	6,91	6.456	164,0	6.331	160,81	-	-	-	-	
			20.00	29,8	J/K 55	0.272	6,91	6.456	164,0	6.331	160,81	-	-	-	-	
			23.00	34,3		0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3	
			26.00	38,7	0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3		
			23.00	34,3	N80	0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3	
			26.00	38,7		0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3	
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3	
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3	
			35.00	52,1		0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	7.375	187,3	
38.00	56,6	0.540	13,72	5.920		150,4	5.795	147,19	7.656	194,5	7.375	187,3				

API 5CT casing pipe
• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KS	KS	KS	KS	KS	KS	mm	in	in
-	-	-	-	2,8	-	2,8	-	-	-	168.3	6.625	6 5/8
-	-	-	-	3,0	3,0	3,0	3,0	3,0	3,0			
5.730	145,54	7.000	177,8	3,0	3,0	3,0	3,0	3,0	3,0			
5.730	145,54	7.000	177,8	3,0	6,8	-	6,8	6,8	4,7			
5.666	143,92	7.000	177,8	3,0	8,1	-	8,1	7,9	4,7			
5.550	140,97	7.000	177,8	3,0	9,2	-	8,5	7,9	4,7			
-	-	-	-	3,0	4,5	4,5	4,5	4,5	4,5			
5.730	145,54	7.000	177,8	3,0	5,5	5,5	5,5	5,5	4,7			
5.666	143,92	7.000	177,8	3,0	6,5	-	6,5	6,5	4,7			
5.730	145,54	7.000	177,8	3,0	6,8	-	6,8	6,8	4,7			
5.666	143,92	7.000	177,8	3,0	8,1	-	8,1	7,9	4,7			
5.550	140,97	7.000	177,8	3,0	9,2	-	8,5	7,9	4,7			
-	-	-	-	3,0	-	-	7,7	7,7	5,3			
-	-	-	-	3,0	-	-	9,1	8,8	5,3			
-	-	-	-	3,0	-	-	9,6	8,8	5,3			
5.730	145,54	7.000	177,8	3,0	8,1	-	8,1	8,1	5,6			
5.666	143,92	7.000	177,8	3,0	9,6	-	9,6	9,3	5,6			
5.550	140,97	7.000	177,8	3,0	10,0	-	10,0	9,3	5,6			
5.730	145,54	7.000	177,8	3,0	8,1	-	8,1	8,1	5,6			
5.666	143,92	7.000	177,8	3,0	9,6	-	9,6	9,3	5,6			
5.550	140,97	7.000	177,8	3,0	10,0	-	10,0	9,3	5,6			
5.730	145,54	7.000	177,8	3,0	9,4	-	9,4	9,4	6,5			
5.666	143,92	7.000	177,8	3,0	10,0	-	10,0	10,0	6,5			
5.550	140,97	7.000	177,8	3,0	10,0	-	10,0	10,0	6,5			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	2,1	-	2,1	-	-	-			
-	-	-	-	2,5	-	2,5	-	-	-			
-	-	-	-	3,0	3,0	3,0	-	-	-			
6.151	156,24	7.390	187,7	3,0	3,0	3,0	3,0	3,0	3,0			
6.151	156,24	7.390	187,7	3,0	3,0	3,0	3,0	3,0	3,0			
6.241	158,52	7.390	187,7	3,0	5,8	-	5,8	5,8	4,6			
6.151	156,24	7.390	187,7	3,0	6,6	-	6,6	6,6	4,6			
6.059	153,90	7.390	187,7	3,0	7,5	-	7,4	6,8	4,6			
5.969	151,61	7.390	187,7	3,0	8,3	-	7,4	6,8	4,6			
5.879	149,33	7.530	191,3	3,0	9,1	-	7,4	6,8	4,6			
5.795	147,19	7.530	191,3	3,0	9,9	-	7,4	6,8	4,6			



API 5CT casing pipe

• DIMENSIONS, WEIGHTS

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress					
						Wall thickness		Inside diameter		Drift diameter		outside dia.					
												Regular		Special clearance			
inch	inch	mm	lb/ft	kg/m	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
7	7.000	177.8	20.00	29,8	M65	0.272	6,91	6.456	164,0	6.331	160,81	-	-	-	-	-	-
			23.00	34,3		0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3		
			26.00	38,7		0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3		
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3		
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3		
			23.00	34,3	L80	0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3		
			26.00	38,7		0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3		
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3		
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3		
			35.00	52,1		0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	7.375	187,3		
			38.00	56,6	0.540	13,72	5.920	150,4	5.795	147,19	7.656	194,5	7.375	187,3			
			23.00	34,3	C90	0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3		
			26.00	38,7		0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3		
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3		
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3		
			35.00	52,1		0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	7.375	187,3		
			38.00	56,6		0.540	13,72	5.920	150,4	5.795	147,19	7.656	194,5	7.375	187,3		
			42.70	63,5		0.626	15,90	5.750	116,1	5.625	142,88	-	-	-	-		
			46.40	69,1		0.687	17,45	5.625	142,9	5.500	139,70	-	-	-	-		
			50.10	74,6		0.750	19,05	5.500	139,7	5.375	136,53	-	-	-	-		
			53.60	79,8		0.812	20,62	5.376	136,6	5.251	133,37	-	-	-	-		
			57.10	85,0	0.875	22,22	5.250	133,4	5.125	130,18	-	-	-	-			
			23.00	34,3	C95	0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3		
			26.00	38,7		0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3		
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3		
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3		
			35.00	52,1		0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	7.375	187,3		
			38.00	56,6	0.540	13,72	5.920	150,4	5.795	147,19	7.656	194,5	7.375	187,3			
			23.00	34,3	T95	0.317	8,05	6.366	161,6	6.241	158,52	7.656	194,5	7.375	187,3		
			26.00	38,7		0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3		
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3		
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3		
			35.00	52,1		0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	7.375	187,3		
			38.00	56,6		0.540	13,72	5.920	150,4	5.795	147,19	7.656	194,5	7.375	187,3		
			42.70	63,5		0.626	15,90	5.750	146,0	5.625	142,87	-	-	-	-		
			46.40	69,1		0.687	17,45	5.625	142,8	5.500	139,70	-	-	-	-		

API 5CT casing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	3,0	4,0	4,0	-	-	4,6	177.8	7.000	7
6.151	156,24	7.390	187,7	3,0	4,7	4,7	4,7	4,7	4,6			
6.151	156,24	7.390	187,7	3,0	5,4	5,4	5,4	5,4	4,6			
6.059	153,90	7.390	187,7	3,0	6,1	-	6,1	6,1	4,6			
5.969	151,61	7.390	187,7	3,0	6,7	-	6,7	6,7	4,6			
6.151	156,24	7.390	187,7	3,0	5,8	-	5,8	5,8	4,6			
6.151	156,24	7.390	187,7	3,0	6,6	-	6,6	6,6	4,6			
6.059	153,90	7.390	187,7	3,0	7,5	-	7,4	6,8	4,6			
5.969	151,61	7.390	187,7	3,0	8,3	-	7,4	6,8	4,6			
5.879	149,33	7.530	191,3	3,0	9,1	-	7,4	6,8	4,6			
5.795	147,19	7.530	191,3	3,0	9,9	-	7,4	6,8	4,6			
-	-	-	-	3,0	-	-	6,5	6,5	5,2			
-	-	-	-	3,0	-	-	7,4	7,4	5,2			
-	-	-	-	3,0	-	-	8,3	7,6	5,2			
-	-	-	-	3,0	-	-	8,3	7,6	5,2			
-	-	-	-	3,0	-	-	8,3	7,6	5,2			
-	-	-	-	3,0	-	-	8,3	7,6	5,2			
-	-	-	-	3,0	-	-	8,3	7,6	5,2			
-	-	-	-	3,0	-	-	8,3	7,6	5,2			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
6.151	156,24	7.390	187,7	3,0	6,9	-	6,9	6,9	5,5			
6.151	156,24	7.390	187,7	3,0	7,9	-	7,9	7,9	5,5			
6.059	153,90	7.390	187,7	3,0	8,9	-	8,8	8,0	5,5			
5.969	151,61	7.390	187,7	3,0	9,8	-	8,8	8,0	5,5			
5.879	149,33	7.530	191,3	3,0	10,0	-	8,8	8,0	5,5			
5.795	147,19	7.530	191,3	3,0	10,0	-	8,8	8,0	5,5			
6.151	156,24	7.390	187,7	3,0	6,9	-	6,9	6,9	5,5			
6.151	156,24	7.390	187,7	3,0	7,9	-	7,9	7,9	5,5			
6.059	153,90	7.390	187,7	3,0	8,9	-	8,8	8,0	5,5			
5.969	151,61	7.390	187,7	3,0	9,8	-	8,8	8,0	5,5			
5.879	149,33	7.530	191,3	3,0	10,0	-	8,8	8,0	5,5			
5.795	147,19	7.530	191,3	3,0	10,0	-	8,8	8,0	5,5			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			

API 5CT casing pipe

• DIMENSIONS, WEIGHTS

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress						
						Wall thickness		Inside diameter		Drift diameter		outside dia.						
												Regular		Special clearance				
						inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
7	7.000	177.8	50.10	74,6	T95	0.750	19,05	5.500	139,7	5.375	136,52	-	-	-	-			
			53.60	79,8		0.812	20,62	5.376	136,5	5.251	133,37	-	-	-	-			
			57.10	85,0		0.875	22,22	5.250	133,3	5.125	130,17	-	-	-	-			
			26.00	38,7	P110	0.362	9,19	6.276	159,4	6.151	156,24	7.656	194,5	7.375	187,3			
			29.00	43,2		0.408	10,36	6.184	157,0	6.059	153,90	7.656	194,5	7.375	187,3			
			32.00	47,7		0.453	11,51	6.094	154,8	5.969	151,61	7.656	194,5	7.375	187,3			
			35.00	52,1		0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	7.375	187,3			
			38.00	56,6		0.540	13,72	5.920	150,4	5.795	147,19	7.656	194,5	7.375	187,3			
			35.00	52,1		Q125	0.498	12,65	6.004	152,6	5.879	149,33	7.656	194,5	-	-		
			38.00	56,6			0.540	13,72	5.920	150,4	5.795	147,19	7.656	194,5	-	-		
			7 5/8	7.625	193.7	24.00	35,7	H40	0.300	7,62	7.025	178,5	6.900	175,26	-	-	-	-
						26.40	39,3	J/K55	0.328	8,33	6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4
						26.40	39,3		0.328	8,33	6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4
						29.70	44,2	N80	0.375	9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4
33.70	50,2	0.430				10,92	6.765		171,9	6.640	168,66	8.500	215,9	8.125	206,4			
39.00	58,1	0.500				12,70	6.625		168,3	6.500	165,10	8.500	215,9	8.125	206,4			
42.80	63,7	0.562				14,27	6.501		165,1	6.376	161,95	8.500	215,9	8.125	206,4			
45.30	67,5	0.595				15,11	6.435		163,5	6.310	160,27	8.500	215,9	8.125	206,4			
47.10	70,2	0.625				15,86	6.375		161,9	6.250	158,75	8.500	215,9	8.125	206,4			
26.40	39,3	M65				0.328	8,33		6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4		
29.70	44,2					0.375	9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4			
33.70	50,2	L80				0.430	10,92	6.765	171,9	6.640	168,66	8.500	215,9	8.125	206,4			
26.40	39,3					0.328	8,33	6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4			
29.70	44,2					0.375	9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4			
33.70	50,2					0.430	10,92	6.765	171,9	6.640	168,66	8.500	215,9	8.125	206,4			
39.00	58,1					0.500	12,70	6.625	168,3	6.500	165,10	8.500	215,9	8.125	206,4			
42.80	63,7					0.562	14,27	6.501	165,1	6.376	161,95	8.500	215,9	8.125	206,4			
45.30	67,5					0.595	15,11	6.435	163,5	6.310	160,27	8.500	215,9	8.125	206,4			
47.10	70,2					0.625	15,86	6.375	161,9	6.250	158,75	8.500	215,9	8.125	206,4			
26.40	39,3					C90	0.328	8,33	6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4		
29.70	44,2						0.375	9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4		
33.70	50,2						0.430	10,92	6.765	171,9	6.640	168,66	8.500	215,9	8.125	206,4		
39.00	58,1	0.500					12,70	6.625	168,3	6.500	165,10	8.500	215,9	8.125	206,4			
42.80	63,7	0.562					14,27	6.501	165,1	6.376	161,90	-	-	-	-			
45.30	67,4	0.595					15,11	6.435	163,5	6.310	161,30	-	-	-	-			
47.10	70,2	0.625					15,88	6.375	161,9	6.250	158,80	-	-	-	-			

API 5CT casing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line		Plain-end	Extreme-line	Round thread		Buttress						
				Short	Long	Regular	Special clearance					
Drift diameter	Outside diameter	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in		
in	mm											
-	-	3,0	10,0	-	-	-	-	177.8	7.000	7		
-	-	3,0	10,0	-	-	-	-					
-	-	3,0	10,0	-	-	-	-					
6.151	156,24	7.390	187,7	3,0	9,1	-	9,1					
6.059	153,90	7.390	187,7	3,0	10,0	-	9,5					
5.969	151,61	7.390	187,7	3,0	10,0	-	9,5					
5.879	149,33	7.530	191,3	3,0	10,0	-	9,5					
5.795	147,19	7.530	191,3	3,0	10,0	-	9,5					
-	-	10,0	10,0	-	9,5	10,0	-					
-	-	10,0	10,0	-	9,5	10,0	-					
-	-	2,5	-	2,5	-	-	-					
6.750	171,45	8.010	203,5	3,0	3,0	3,0	3,0					
6.750	171,45	8.010	203,5	3,0	5,5	-	5,5					
6.750	171,45	8.010	203,5	3,0	6,3	-	6,3					
6.640	168,66	8.010	203,5	3,0	7,2	-	7,2					
6.500	165,10	8.010	203,5	3,0	8,4	-	8,4					
-	-	3,0	9,4	-	8,4	7,8	5,2					
-	-	3,0	10,0	-	8,4	7,8	5,2					
-	-	3,0	10,0	-	8,4	7,8	5,2					
6.750	171,45	8.010	203,5	3,0	4,5	4,5	4,5					
6.750	171,45	8.010	203,5	3,0	5,1	-	5,1					
6.640	168,66	8.010	203,5	3,0	5,9	-	5,9					
6.750	171,45	8.010	203,5	3,0	5,5	-	5,5					
6.750	171,45	8.010	203,5	3,0	6,3	-	6,3					
6.640	168,66	8.010	203,5	3,0	7,2	-	7,2					
6.500	165,10	8.010	203,5	3,0	8,4	-	8,4					
-	-	3,0	9,4	-	8,4	7,8	5,2					
-	-	3,0	10,0	-	8,4	7,8	5,2					
-	-	3,0	10,0	-	8,4	7,8	5,2					
-	-	3,0	-	-	6,2	6,2	5,9					
-	-	3,0	-	-	7,1	7,1	5,9					
-	-	3,0	-	-	8,1	8,1	5,9					
-	-	3,0	-	-	9,4	8,8	5,9					
-	-	3,0	-	-	-	-	-					
-	-	3,0	-	-	-	-	-					
-	-	3,0	-	-	-	-	-					

API 5CT casing pipe

DIMENSIONS, WEIGHTS

Size designat	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Filetage et manchon								
						Wall thickness		Inside diameter		Drift diameter		Buttress								
												outside dia.								
												Regular		Special clearance						
inch	mm	lb/ft	kg/m		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm				
7 5/8	7.625	193.7	51.20	76,2	C90	0.687	17,45	6.251	158,8	6.126	155,60	-	-	-	-	-	-			
			55.30	82,3		0.750	19,05	6.125	155,6	6.000	152,40	-	-	-	-	-	-	-	-	
			26.40	39,3	C95	0.328	8,33	6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4	-	-	-	-	
			29.70	44,2		0.375	9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4	-	-	-	-	
			33.70	50,2		0.430	10,92	6.765	171,9	6.640	168,66	8.500	215,9	8.125	206,4	-	-	-	-	
			39.00	58,1		0.500	12,70	6.625	168,3	6.500	165,10	8.500	215,9	8.125	206,4	-	-	-	-	
			42.80	63,7		0.562	14,27	6.501	165,1	6.376	161,95	8.500	215,9	8.125	206,4	-	-	-	-	
			45.30	67,5		0.595	15,11	6.435	163,5	6.310	160,27	8.500	215,9	8.125	206,4	-	-	-	-	
			47.10	70,2		0.625	15,86	6.375	161,9	6.250	158,75	8.500	215,9	8.125	206,4	-	-	-	-	
			26.40	39,3		T95	0.328	8,33	6.969	177,0	6.844	173,84	8.500	215,9	8.125	206,4	-	-	-	-
			29.70	44,2	0.375		9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4	-	-	-	-	
			33.70	50,2	0.430		10,92	6.765	171,9	6.640	168,66	8.500	215,9	8.125	206,4	-	-	-	-	
			39.00	58,1	0.500		12,70	6.625	168,3	6.500	165,10	8.500	215,9	8.125	206,4	-	-	-	-	
			42.80	63,7	0.562		14,27	6.501	165,1	6.376	161,90	-	-	-	-	-	-	-	-	
			45.30	67,5	0.595		15,11	6.435	163,5	6.310	160,30	-	-	-	-	-	-	-	-	
			47.10	70,2	0.625		15,88	6.375	161,9	6.250	158,80	-	-	-	-	-	-	-	-	
			51.20	76,2	0.687		17,45	6.251	158,8	6.126	155,60	-	-	-	-	-	-	-	-	
			55.30	82,3	0.750	19,05	6.125	155,6	6.000	152,40	-	-	-	-	-	-	-	-		
			7 3/4	7.750	196.8	29.70	44,2	P110	0.375	9,52	6.875	174,7	6.750	171,45	8.500	215,9	8.125	206,4	-	-
						33.70	50,2		0.430	10,92	6.765	171,9	6.640	168,66	8.500	215,9	8.125	206,4	-	-
						39.00	58,1		0.500	12,70	6.625	168,3	6.500	165,10	8.500	215,9	8.125	206,4	-	-
						42.80	63,7		0.562	14,27	6.501	165,1	6.376	161,95	8.500	215,9	8.125	206,4	-	-
						45.30	67,5	0.595	15,11	6.435	163,5	6.310	160,27	8.500	215,9	8.125	206,4	-	-	
						47.10	70,2	0.625	15,86	6.375	161,9	6.250	158,75	8.500	215,9	8.125	206,4	-	-	
						39.00	58,1	Q125	0.500	12,70	6.625	168,3	6.500	165,10	8.500	215,9	-	-	-	-
						42.80	63,7		0.562	14,27	6.501	165,1	6.376	161,95	8.500	215,9	-	-	-	-
						45.30	67,5		0.595	15,11	6.435	163,5	6.310	160,27	8.500	215,9	-	-	-	-
						47.10	70,2		0.625	15,86	6.375	161,9	6.250	158,75	8.500	215,9	-	-	-	-
46.10		N80				0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-	-			
46.10						L80	0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-			
46.10			C90	0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-						
46.10			C95	0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-						
46.10			T95	0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-						
46.10			P110	0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-						
46.10		Q125	0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-							
46.10			0.595	15,11	6.560	166,62	6.435	163,45	-	-	-	-	-							

API 5CT casing pipe

HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designat
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
						in	mm	in	mm				KSi	KSi
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	3,0	-	-	-	-	-	193.7	7.625	7 5/8
-	-	-	-	3,0	-	-	-	-	-			
6.750	171,45	8.010	203,5	3,0	6,5	-	6,5	6,5	6,2			
6.750	171,45	8.010	203,5	3,0	7,5	-	7,5	7,5	6,2			
6.640	168,66	8.010	203,5	3,0	8,6	-	8,6	8,6	6,2			
6.500	165,10	8.010	203,5	3,0	10,0	-	10,0	9,3	6,2			
-	-	-	-	3,0	10,0	-	10,0	9,3	6,2			
-	-	-	-	3,0	10,0	-	10,0	9,3	6,2			
-	-	-	-	3,0	10,0	-	10,0	9,3	6,2			
6.750	171,45	8.010	203,5	3,0	6,5	-	6,5	6,5	6,2			
6.750	171,45	8.010	203,5	3,0	7,5	-	7,5	7,5	6,2			
6.640	168,66	8.010	203,5	3,0	8,6	-	8,6	8,6	6,2			
6.500	165,10	8.010	203,5	3,0	10,0	-	10,0	9,3	6,2			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
6.750	171,45	8.010	203,5	3,0	8,7	-	8,7	8,7	7,2			
6.640	168,66	8.010	203,5	3,0	9,9	-	9,9	9,9	7,2			
6.500	165,10	8.010	203,5	3,0	10,0	-	10,0	10,0	7,2			
-	-	-	-	3,0	10,0	-	10,0	10,0	7,2			
-	-	-	-	3,0	10,0	-	10,0	10,0	7,2			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	10,0	10,0	-	10,0	10,0	-			
-	-	-	-	3,0	9,8	-	-	-	-			
-	-	-	-	3,0	9,8	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	10,0	10,0	-	-	-	-			



API 5CT casing pipe

API 5CT casing pipe

• DIMENSIONS, WEIGHTS

• HYDROSTATIC TEST PRESSURE

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress			
						Wall thickness		Inside diameter		Drift diameter		outside dia.			
												Regular		Special clearance	
inch	inch	mm	lb/ft	kg/m		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
8 5/8	8.625	219.1	28.00	41,7	H40	0.304	7,72	8.017	203,7	7.892	200,46	-	-	-	-
			32.00	47,7		0.352	8,94	7.921	201,3	7.796	198,02	-	-	-	-
			24.00	35,7	J/K55	0.264	6,71	8.097	205,7	7.972	202,49	-	-	-	-
			32.00	47,7		0.352	8,94	7.921	201,3	7.796	198,02	9.625	244,5	9.125	231,8
			36.00	53,6	N80	0.400	10,16	7.825	198,7	7.700	195,58	9.625	244,5	9.125	231,8
			36.00	53,6		0.400	10,16	7.825	198,7	7.700	195,58	9.625	244,5	9.125	231,8
			40.00	59,6	M65	0.450	11,43	7.725	196,3	7.600	193,04	9.625	244,5	9.125	231,8
			44.00	65,5		0.500	12,70	7.625	193,7	7.500	190,50	9.625	244,5	9.125	231,8
			49.00	73,0	L80	0.557	14,15	7.511	190,8	7.386	187,60	9.625	244,5	9.125	231,8
			24.00	35,7		0.264	6,71	8.097	205,7	7.972	202,49	-	-	-	-
			32.00	47,7	C90	0.352	8,94	7.921	201,3	7.796	198,02	9.625	244,5	9.125	231,8
			36.00	53,6		0.400	10,16	7.825	198,7	7.700	195,58	9.625	244,5	9.125	231,8
			40.00	59,6	C95	0.450	11,43	7.725	196,3	7.600	193,04	9.625	244,5	9.125	231,8
			44.00	65,5		0.500	12,70	7.625	193,7	7.500	190,50	9.625	244,5	9.125	231,8
			49.00	73,0	T95	0.557	14,15	7.511	190,9	7.386	187,60	9.625	244,5	9.125	231,8
			36.00	53,6		0.400	10,16	7.825	198,7	7.700	195,58	9.625	244,5	9.125	231,8
			40.00	59,6	P110	0.450	11,43	7.725	196,3	7.600	193,04	9.625	244,5	9.125	231,8
			44.00	65,5		0.500	12,70	7.625	193,7	7.500	190,50	9.625	244,5	9.125	231,8
			49.00	73,0	Q125	0.557	14,15	7.511	190,9	7.386	187,60	9.625	244,5	9.125	231,8
			49.00	73,0		0.557	14,15	7.511	190,9	7.386	187,60	9.625	244,5	-	-

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	2,3	-	2,3	-	-	-	219.1	8.625	8 5/8
-	-	-	-	2,6	-	2,6	-	-	-			
-	-	-	-	2,7	2,7	2,7	-	-	-			
7.700	195,58	9.120	231,6	3,0	3,0	3,0	3,0	3,0	3,0			
7.700	195,58	9.120	231,6	3,0	3,0	3,0	3,0	3,0	3,0			
7.700	195,58	9.120	231,6	3,0	5,9	-	5,9	5,9	4,7			
7.600	193,04	9.120	231,6	3,0	6,7	-	6,7	6,7	4,7			
7.500	190,50	9.120	231,6	3,0	7,4	-	7,4	7,4	4,7			
7.386	187,60	9.120	231,6	3,0	8,3	-	8,3	8,3	4,7			
-	-	-	-	3,0	3,2	3,2	-	-	-			
7.700	195,58	9.120	231,6	3,0	4,2	4,2	4,2	4,2	4,2			
7.700	195,58	9.120	231,6	3,0	4,8	4,8	4,8	4,8	4,7			
7.600	193,04	9.120	231,6	3,0	5,4	-	5,4	5,4	4,7			
7.500	190,50	9.120	231,6	3,0	6,0	-	6,0	6,0	4,7			
7.700	195,58	9.120	231,6	3,0	5,9	-	5,9	5,9	4,7			
7.600	193,04	9.120	231,6	3,0	6,7	-	6,7	6,7	4,7			
7.500	190,50	9.120	231,6	3,0	7,4	-	7,4	7,4	4,7			
7.386	187,60	9.120	231,6	3,0	8,3	-	8,3	7,8	4,7			
-	-	-	-	3,0	-	-	6,7	6,7	5,3			
-	-	-	-	3,0	-	-	7,5	7,5	5,3			
-	-	-	-	3,0	-	-	8,3	8,3	5,3			
-	-	-	-	3,0	-	-	9,3	8,8	5,3			
7.700	195,58	9.120	231,6	3,0	7,0	-	7,0	7,0	5,6			
7.600	193,04	9.120	231,6	3,0	7,9	-	7,9	7,9	5,6			
7.500	190,50	9.120	231,6	3,0	8,8	-	8,8	8,8	5,6			
7.386	187,60	9.120	231,6	3,0	9,8	-	9,8	9,3	5,6			
7.700	195,58	9.120	231,6	3,0	7,0	-	7,0	7,0	5,6			
7.600	193,04	9.120	231,6	3,0	7,9	-	7,9	7,9	5,6			
7.500	190,50	9.120	231,6	3,0	8,8	-	8,8	8,8	5,6			
7.386	187,60	9.120	231,6	3,0	9,8	-	9,8	9,3	5,6			
7.600	193,04	9.120	231,6	3,0	9,2	-	9,2	9,2	6,3			
7.500	190,50	9.120	231,6	3,0	10,0	-	10,0	10,0	6,3			
7.386	187,60	9.120	231,6	3,0	10,0	-	10,0	10,0	6,3			
-	-	-	-	10,0	10,0	-	10,0	-	-			

API 5CT casing pipe

• DIMENSIONS, WEIGHTS

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress			
						Wall thickness		Inside diameter		Drift diameter		outside dia.			
												Regular		Special clearance	
inch	inch	mm	lb/ft	kg/m		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
9 5/8	9.625	244.5	32.30	48,1	H40	0.312	7,92	9.001	228,7	8.845	224,66	-	-	-	-
			36.00	53,6		0.352	8,94	8.921	226,7	8.765	222,63	-	-	-	-
			36.00	53,6	J/K55	0.352	8,94	8.921	226,7	8.765	222,63	10.625	269,9	10.125	257,2
			40.00	59,6		0.395	10,03	8.835	224,5	8.679	220,45	10.625	269,9	10.125	257,2
			40.00	59,6	N80	0.395	10,03	8.835	224,5	8.679	220,45	10.625	269,9	10.125	257,2
			43.50	64,8		0.435	11,05	8.755	222,5	8.599	218,41	10.625	269,9	10.125	257,2
			47.00	70,0		0.472	11,99	8.681	220,5	8.525	216,54	10.625	269,9	10.125	257,2
			53.50	79,7	M65	0.545	13,84	8.535	216,9	8.379	212,83	10.625	269,9	10.125	257,2
			58.40	86,9		0.595	15,11	8.435	214,2	8.375	212,72	10.625	269,9	10.125	257,2
			36.00	53,6		0.352	8,94	8.921	226,7	8.765	222,63	10.625	269,9	10.125	257,2
			40.00	59,6	L80	0.395	10,03	8.835	224,5	8.679	220,45	10.625	269,9	10.125	257,2
			43.50	64,8		0.435	11,05	8.755	222,5	8.599	218,41	10.625	269,9	10.125	257,2
			47.00	70,0		0.472	11,99	8.681	220,5	8.525	216,54	10.625	269,9	10.125	257,2
			53.50	79,7	C90	0.545	13,84	8.535	216,9	8.379	212,83	10.625	269,9	10.125	257,2
			58.40	86,9		0.595	15,11	8.435	214,2	8.375	212,72	10.625	269,9	10.125	257,2
			40.00	59,6		0.395	10,03	8.835	224,5	8.679	220,45	10.625	269,9	10.125	257,2
			43.50	64,8	C95	0.435	11,05	8.755	222,5	8.599	218,41	10.625	269,9	10.125	257,2
			47.00	70,0		0.472	11,99	8.681	220,5	8.525	216,54	10.625	269,9	10.125	257,2
			53.50	79,7		0.545	13,84	8.535	216,9	8.379	212,83	10.625	269,9	10.125	257,2
			58.40	86,9	T95	0.595	15,11	8.435	214,2	8.375	212,72	10.625	269,9	10.125	257,2
			40.00	59,6		0.395	10,03	8.835	224,5	8.679	220,45	10.625	269,9	10.125	257,2
			43.50	64,8		0.435	11,05	8.755	222,5	8.599	218,41	10.625	269,9	10.125	257,2
			47.00	70,0	T95	0.472	11,99	8.681	220,5	8.525	216,54	10.625	269,9	10.125	257,2
			53.50	79,7		0.545	13,84	8.535	216,9	8.379	212,83	10.625	269,9	10.125	257,2

API 5CT casing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	2,1	-	2,1	-	-	-	244.5	9.625	9 5/8
-	-	-	-	2,3	-	2,3	-	-	-			
-	-	-	-	3,0	3,0	3,0	3,0	3,0	2,9			
8.599	218,41	10.100	256,5	3,0	3,0	3,0	3,0	3,0	2,9			
8.599	218,41	10.100	256,5	3,0	5,3	-	5,3	5,3	4,3			
8.599	218,41	10.100	256,5	3,0	5,8	-	5,8	5,8	4,3			
8.525	216,54	10.100	256,5	3,0	6,3	-	6,3	6,3	4,3			
8.379	212,83	10.100	256,5	3,0	7,2	-	7,2	7,1	4,3			
-	-	-	-	3,0	7,9	-	7,7	7,1	4,3			
-	-	-	-	3,0	3,8	3,8	3,8	3,8	3,8			
8.599	218,41	10.100	256,5	3,0	4,3	4,3	4,3	4,3	4,3			
8.599	218,41	10.100	256,5	3,0	4,7	-	4,7	4,7	4,3			
8.525	216,54	10.100	256,5	3,0	5,1	-	5,1	5,1	4,3			
8.599	218,41	10.100	256,5	3,0	5,3	-	5,3	5,3	4,3			
8.599	218,41	10.100	256,5	3,0	5,8	-	5,8	5,8	4,3			
8.525	216,54	10.100	256,5	3,0	6,3	-	6,3	6,3	4,3			
8.379	212,83	10.100	256,5	3,0	7,2	-	7,2	7,1	4,3			
-	-	-	-	3,0	7,7	-	7,7	7,1	4,3			
-	-	-	-	3,0	-	-	5,9	5,9	4,8			
-	-	-	-	3,0	-	-	6,5	6,5	4,8			
-	-	-	-	3,0	-	-	7,1	7,1	4,8			
-	-	-	-	3,0	-	-	8,2	7,9	4,8			
-	-	-	-	3,0	-	-	8,5	8,0	4,8			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
8.599	218,41	10.100	256,5	3,0	6,2	-	6,2	6,2	5,1			
8.599	218,41	10.100	256,5	3,0	6,9	-	6,9	6,9	5,1			
8.525	216,54	10.100	256,5	3,0	7,5	-	7,5	7,5	5,1			
8.379	212,83	10.100	256,5	3,0	8,6	-	8,5	8,4	5,1			
-	-	-	-	3,0	9,4	-	8,5	8,4	5,1			
8.599	218,41	10.100	256,5	3,0	6,2	-	6,2	6,2	5,1			
8.599	218,41	10.100	256,5	3,0	6,9	-	6,9	6,9	5,1			
8.525	216,54	10.100	256,5	3,0	7,5	-	7,5	7,5	5,1			
8.379	212,83	10.100	256,5	3,0	8,6	-	8,5	8,4	5,1			

**API 5CT
casing pipe****API 5CT
casing pipe**• **DIMENSIONS, WEIGHTS**• **HYDROSTATIC TEST PRESSURE**

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress			
						Wall thickness		Inside diameter		Drift diameter		outside dia.			
												Regular		Special clearance	
inch	inch	mm	lb/ft	kg/m		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
9 5/8	9.625	244.5	58.40	86,9	T95	0.595	15,11	8.435	214,2	8.279	210,28	10.625	269,9	10.125	257,2
			59.40	88,4		0.609	15,47	8.407	213,5	8.251	209,58	-	-	-	-
			64.90	96,6		0.672	17,07	8.281	210,3	8.125	206,37	-	-	-	-
			70.30	104,6		0.734	18,64	8.157	207,2	8.001	203,22	-	-	-	-
			75.60	112,5		0.797	20,24	8.031	203,9	7.875	200,03	-	-	-	-
			43.50	64,8	P110	0.435	11,05	8.755	222,5	8.599	218,41	10.625	269,9	10.125	257,2
			47.00	70,0		0.472	11,99	8.681	220,5	8.525	216,54	10.625	269,9	10.125	257,2
			53.50	79,7		0.545	13,84	8.535	216,9	8.379	212,83	10.625	269,9	10.125	257,2
			58.40	79,7		0.595	15,11	8.435	214,2	8.375	212,72	10.625	269,9	10.125	257,2
			47.00	70,0		Q125	0.472	11,99	8.681	220,5	8.525	216,54	10.625	269,9	-
53.50	79,7	0.545	13,84	8.535	216,9		8.379	212,83	10.625	269,9	-	-			
58.40	86,9	0.595	15,11	8.435	214,2		8.375	212,72	10.625	269,9	-	-			
10 3/4	10.750	273.0	32.75	48,8	H40	0.279	7,09	10.192	258,8	10.036	254,91	-	-	-	-
			40.50	60,3		0.350	8,89	10.050	255,3	9.894	251,31	-	-	-	-
			40.50	60,3	J/K55	0.350	8,89	10.050	255,3	9.894	251,31	11.750	298,4	11.250	285,8
			45.50	67,8		0.400	10,16	9.950	252,7	9.794	248,77	11.750	298,4	11.250	285,8
			51.00	76,0		0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8
			51.00	76,0	N80	0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8
			55.50	82,7		0.495	12,57	9.760	247,9	9.604	243,94	11.750	298,4	11.250	285,8
			40.50	60,3	M65	0.350	8,89	10.050	255,3	9.894	251,31	11.750	298,4	11.250	285,8
			45.50	67,8		0.400	10,16	9.950	252,7	9.794	248,77	11.750	298,4	11.250	285,8
			51.00	76,0		0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8
			55.50	82,7	L80	0.495	12,57	9.760	247,9	9.604	243,94	11.750	298,4	11.250	285,8
			51.00	76,0		0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8
			55.50	82,7		0.495	12,57	9.760	247,9	9.604	243,94	11.750	298,4	11.250	285,8
			60.70	90,4	C90	0.545	13,84	9.660	245,4	9.504	241,40	11.750	298,4	11.250	285,8
			65.70	97,9		0.595	15,11	9.560	242,8	9.404	238,86	11.750	298,4	11.250	285,8
			73.20	108,9		0.672	17,07	9.406	238,9	9.250	234,95	-	-	-	-
			79.20	117,9		0.734	18,64	9.282	235,7	9.126	231,80	-	-	-	-
			85.30	126,9		0.797	20,24	9.156	232,5	9.000	228,60	-	-	-	-
			51.00	76,0	C95	0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8
			55.50	82,7		0.495	12,57	9.760	247,9	9.604	243,94	11.750	298,4	11.250	285,8
			51.00	76,0	T95	0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8
55.50	82,7	0.495	12,57	9.760		247,9	9.604	243,94	11.750	298,4	11.250	285,8			

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	3,0	9,4	-	8,5	8,4	5,1	244.5	9.625	9 5/8
-	-	-	-	3,0	9,6	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
8.599	218,41	10.100	256,5	3,0	8,0	-	8,0	8,0	5,1			
8.525	216,54	10.100	256,5	3,0	8,6	-	8,6	8,6	5,1			
8.379	212,83	10.100	256,5	3,0	10,0	-	9,7	9,2	5,1			
-	-	-	-	3,0	10,0	-	9,7	9,2	5,1			
-	-	-	-	9,8	9,8	-	9,7	9,2	-			
-	-	-	-	10,0	10,0	-	9,7	9,2	-			
-	-	-	-	10,0	10,0	-	9,7	9,2	-			
-	-	-	-	1,2	-	1,2	-	-	-			
-	-	-	-	1,6	-	1,6	-	-	-			
-	-	-	-	2,1	2,1	2,1	-	2,1	2,1			
9.794	248,77	11.460	291,1	2,5	2,5	2,5	-	2,5	2,5			
9.694	246,23	11.460	291,1	2,8	2,8	2,8	-	2,8	2,6			
9.694	246,23	11.460	291,1	3,0	5,4	5,4	-	5,4	3,8			
9.604	243,94	11.460	291,1	3,0	5,9	5,9	-	5,9	3,8			
-	-	-	-	3,0	3,4	3,4	-	3,4	3,4			
9.794	248,77	11.460	291,1	3,0	3,9	3,9	-	3,9	3,8			
9.694	246,23	11.460	291,1	3,0	4,4	4,4	-	4,4	3,8			
9.604	243,94	11.460	291,1	3,0	4,8	4,8	-	4,8	3,8			
9.694	246,23	11.460	291,1	3,0	5,4	5,4	-	5,4	3,8			
9.604	243,94	11.460	291,1	3,0	5,9	5,9	-	5,9	3,8			
-	-	-	-	3,0	-	6,0	-	6,0	4,1			
-	-	-	-	3,0	-	6,6	-	6,6	4,1			
-	-	-	-	3,0	-	6,9	-	7,5	4,1			
-	-	-	-	3,0	-	6,9	-	7,5	4,1			
-	-	-	-	3,0	-	-	-	-	-			
-	-	-	-	3,0	-	-	-	-	-			
9.694	246,23	11.460	291,1	3,0	6,4	6,4	-	6,4	4,2			
9.604	243,94	11.460	291,1	3,0	7,0	6,9	-	7,0	4,2			
9.694	246,23	11.460	291,1	3,0	6,4	6,4	-	6,4	4,2			
9.604	243,94	11.460	291,1	3,0	7,0	6,9	-	7,0	4,2			

API 5CT casing pipe

• DIMENSIONS, WEIGHTS

Size designatn	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress						
						Wall thickness		Inside diameter		Drift diameter		outside dia.						
												Regular		Special clearance				
inch	inch	mm	lb/ft	kg/m	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm				
10 3/4	10.750	273.0	60.70	90,4	T95	0.545	13,84	9.660	245,4	9.504	241,40	11.750	298,4	11.250	285,8			
			65.70	97,9		0.595	15,11	9.560	242,8	9.404	238,86	11.750	298,4	11.250	285,8			
			73.20	108,9		0.672	17,07	9.406	238,9	9.250	234,95	-	-	-	-			
			79.20	117,9		0.734	18,64	9.282	235,7	9.126	231,80	-	-	-	-			
			85.30	126,9		0.797	20,24	9.156	232,5	9.000	228,60	-	-	-	-			
			51.00	76,0	P110	0.450	11,43	9.850	250,3	9.694	246,23	11.750	298,4	11.250	285,8			
			55.50	82,7		0.495	12,57	9.760	247,9	9.604	243,94	11.750	298,4	11.250	285,8			
			60.70	90,4		0.545	13,84	9.660	245,4	9.504	241,40	11.750	298,4	11.250	285,8			
			65.70	97,9		0.595	15,11	9.560	242,8	9.404	238,86	11.750	298,4	11.250	285,8			
			60.70	90,4		Q125	0.545	13,84	9.660	245,4	9.504	241,40	11.750	298,4	-	-		
			65.70	97,9	0.595		15,11	9.560	242,8	9.404	238,86	11.750	298,4	-	-			
			11 3/4	11.750	298.4	42.00	62,5	H40	0.333	8,46	11.084	281,5	10.928	277,57	-	-	-	-
						47.00	70,0	J/K55	0.375	9,52	11.000	279,5	10.844	275,44	12.750	323,8	-	-
						54.00	80,4		0.435	11,05	10.880	276,5	10.724	272,39	12.750	323,8	-	-
						60.00	89,4		0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-
60.00	89,4	N80				0.489	12,42		10.772	273,7	10.616	269,65	12.750	323,8	-	-		
47.00	70,0	M65				0.375	9,52	11.000	279,5	10.844	275,44	12.750	323,8	-	-			
54.00	80,4					0.435	11,05	10.880	276,5	10.724	272,39	12.750	323,8	-	-			
60.00	89,4					0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-			
60.00	89,4					L80	0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-		
60.00	89,4	C90				0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-			
60.00	89,4	C95				0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-			
60.00	89,4	T95				0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-			
60.00	89,4	P110				0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-			
60.00	89,4	Q125				0.489	12,42	10.772	273,7	10.616	269,65	12.750	323,8	-	-			
13 3/8	13.375	339.7				48.00	71,5	H40	0.330	8,38	12.715	322,9	12.559	319,00	-	-	-	-
						54.50	81,2	J/K55	0.380	9,65	12.615	320,3	12.459	316,46	14.375	365,1	-	-
			61.00	90,9	0.430	10,92	12.515		317,9	12.359	313,92	14.375	365,1	-	-			
			68.00	101,3	0.480	12,19	12.415		315,3	12.259	311,38	14.375	365,1	-	-			
			68.00	101,3	N80	0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-			
			72.00	107,2		0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-			
			54.50	81,2		0.380	9,65	12.615	320,3	12.459	316,46	14.375	365,1	-	-			
			61.00	90,9	M65	0.430	10,92	12.515	317,9	12.359	313,92	14.375	365,1	-	-			
			68.00	101,3		0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-			

API 5CT casing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designatn
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	3,0	7,7	6,9	-	7,5	4,2	273.0	10.750	10 3/4
-	-	-	-	3,0	8,4	6,9	-	7,5	4,2			
-	-	-	-	3,0	9,5	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
-	-	-	-	3,0	10,0	-	-	-	-			
9.694	246,23	11.460	291,1	3,0	7,4	7,4	-	7,4	4,2			
9.604	243,94	11.460	291,1	3,0	8,1	7,9	-	7,5	4,2			
9.504	241,40	11.460	291,1	3,0	8,9	7,9	-	7,5	4,2			
-	-	-	-	3,0	9,7	7,9	-	7,5	4,2			
-	-	-	-	10,0	10,0	7,9	-	7,5	-			
-	-	-	-	10,0	10,0	7,9	-	7,5	-			
-	-	-	-	1,4	-	1,4	-	-	-			
-	-	-	-	2,1	2,1	2,1	-	2,1	-			
-	-	-	-	2,4	2,4	2,4	-	2,4	-			
-	-	-	-	2,7	2,7	2,7	-	2,7	-			
-	-	-	-	3,0	5,3	5,3	-	5,3	-			
-	-	-	-	3,0	3,3	3,3	-	3,3	-			
-	-	-	-	3,0	3,9	3,9	-	3,9	-			
-	-	-	-	3,0	4,3	4,3	-	4,3	-			
-	-	-	-	3,0	5,3	5,3	-	5,3	-			
-	-	-	-	3,0	-	5,8	-	6,0	-			
-	-	-	-	3,0	6,3	5,8	-	6,3	-			
-	-	-	-	3,0	6,3	5,8	-	6,3	-			
-	-	-	-	3,0	7,3	6,7	-	6,3	-			
-	-	-	-	8,3	8,3	6,7	-	6,3	-			
-	-	-	-	1,2	-	1,2	-	-	-			
-	-	-	-	1,9	1,9	1,9	-	1,9	-			
-	-	-	-	2,1	2,1	2,1	-	2,1	-			
-	-	-	-	2,4	2,4	2,4	-	2,4	-			
-	-	-	-	3,0	4,6	4,6	-	4,6	-			
-	-	-	-	3,0	4,9	4,9	-	4,9	-			
-	-	-	-	3,0	3,0	3,0	-	3,0	-			
-	-	-	-	3,0	3,3	3,3	-	3,3	-			
-	-	-	-	3,0	3,7	3,7	-	3,7	-			

API 5CT casing pipe

DIMENSIONS, WEIGHTS

Size designati	Outside diameter		Nominal weight threads and coupling		Grades	Tube/Pipe						Buttress			
						Wall thickness		Inside diameter		Drift diameter		outside dia.			
						inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
13 3/8	13.375	339.7	68.00	101,3	L80	0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-
			72.00	107,2		0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-
			68.00	101,3	C90	0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-
			72.00	107,2		0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-
			68.00	101,3	C95	0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-
			72.00	107,2		0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-
			68.00	101,3	T95	0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-
			72.00	107,2		0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-
			68.00	101,3	P110	0.480	12,19	12.415	315,3	12.259	311,38	14.375	365,1	-	-
			72.00	107,2		0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-
			72.00	107,2	Q125	0.514	13,06	12.347	313,5	12.191	309,65	14.375	365,1	-	-
			16	16.000	406.4	65.00	96,8	H40	0.375	9,52	15.250	387,4	15.062	382,57	-
75.00	111,7	J/K55				0.438	11,13	15.124	384,2	14.936	379,37	17.000	431,8	-	-
84.00	125,1					0.495	12,57	15.010	381,2	14.822	376,48	17.000	431,8	-	-
109.00	162,2	N80				0.656	16,66	14.688	333,1	14.500	368,31	-	-	-	-
75.00	111,7	M65				0.438	11,13	15.124	384,2	14.936	379,37	17.000	431,8	-	-
84.00	125,1					0.495	12,57	15.010	381,2	14.822	376,48	17.000	431,8	-	-
109.00	162,2	L80				0.656	16,66	14.688	333,1	14.500	368,31	-	-	-	-
109.00	162,2	C95				0.656	16,66	14.688	333,1	14.500	368,31	-	-	-	-
109.00	162,2	P110				0.656	16,66	14.688	333,1	14.500	368,31	-	-	-	-
109.00	162,2	Q125				0.656	16,66	14.688	333,1	14.500	368,31	-	-	-	-
18 5/8	18.625	473.1	87.50	130,3	H40	0.435	11,05	17.755	451,0	17.567	446,20	-	-	-	-
			87.50	130,3	J/K55	0.435	11,05	17.755	451,0	17.567	446,20	20.000	508,0	-	-
			87.50	130,3	M65	0.435	11,05	17.755	451,0	17.567	446,20	20.000	508,0	-	-
20	20.000	508.0	94.00	140,0	H40	0.438	11,13	19.124	485,8	18.936	480,97	-	-	-	-
			94.00	140,0	J/K55	0.438	11,13	19.124	485,8	18.936	480,97	21.000	533,4	-	-
			106.50	158,6		0.500	12,70	19.000	482,6	18.812	477,82	21.000	533,4	-	-
			133.00	198,1	M65	0.635	16,13	18.730	475,8	18.542	470,97	21.000	533,4	-	-
			94.00	140,0		0.438	11,13	19.124	485,8	18.936	480,97	21.000	533,4	-	-
			106.50	158,6	0.500	12,70	19.000	482,6	18.812	477,82	21.000	533,4	-	-	

API 5CT casing pipe

HYDROSTATIC TEST PRESSURE

Thread and coupling				Hydrostatic test pressure						Outside diameter		Size designati
line				Plain-end	Extreme-line	Round thread		Buttress				
Drift diameter		Outside diameter				Short	Long	Regular	Special clearance			
in	mm	in	mm	KSi	KSi	KSi	KSi	KSi	KSi	mm	in	in
-	-	-	-	3,0	4,6	4,6	-	4,6	-	339.7	13.375	13 3/8
-	-	-	-	3,0	4,9	4,6	-	4,9	-			
-	-	-	-	3,0	-	4,6	-	4,9	-			
-	-	-	-	3,0	-	4,6	-	4,9	-			
-	-	-	-	3,0	5,5	4,6	-	4,9	-			
-	-	-	-	3,0	5,8	4,6	-	4,9	-			
-	-	-	-	3,0	5,5	4,6	-	4,9	-			
-	-	-	-	3,0	5,8	4,6	-	4,9	-			
-	-	-	-	3,0	6,3	5,2	-	4,9	-			
-	-	-	-	3,0	6,8	5,2	-	4,9	-			
-	-	-	-	7,7	7,7	5,2	-	4,9	-			
-	-	-	-	1,1	-	1,1	-	-	-			
-	-	-	-	1,8	1,8	1,8	-	1,8	-			
-	-	-	-	2,0	2,0	2,0	-	2,0	-			
-	-	-	-	3,0	5,3	-	-	-	-			
-	-	-	-	2,8	2,8	2,8	-	2,8	-			
-	-	-	-	3,0	3,2	3,2	-	3,2	-			
-	-	-	-	3,0	5,3	-	-	-	-			
-	-	-	-	3,0	6,2	-	-	-	-			
-	-	-	-	3,0	7,2	-	-	-	-			
-	-	-	-	8,2	8,2	-	-	-	-			
-	-	-	-	1,1	-	1,1	-	-	-			
-	-	-	-	1,5	1,5	1,5	-	1,5	-			
-	-	-	-	2,4	2,4	2,4	-	2,4	-			
-	-	-	-	1,1	-	1,1	1,1	-	-			
-	-	-	-	1,4	1,4	1,4	1,4	1,4	-			
-	-	-	-	1,6	1,6	1,6	1,6	1,6	-			
-	-	-	-	2,1	2,1	2,1	2,1	2,1	-			
-	-	-	-	2,3	2,3	2,1	2,1	2,3	-			
-	-	-	-	2,6	2,6	2,1	2,1	2,3	-			

API 5CT Tubing pipe

• DIMENSIONS, WEIGHTS

Size designatn			Nominal weight						Grades	Tube/pipe					
										Non-upset			Upset			Integral joint		Wall thickness		Inside diameter		Coupling outside diameter Non-upset
inch	inch	mm	lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m		inch	mm	inch	mm	inch	mm
1.050	1.050	26.7	1.14	1,70	1.20	1,80	-	-	H40	0.113	2,87	0.824	20,93	1.313	33,35
			-	-	1.54	2,30	-	-		0.154	3,91	0.742	18,84	1.313	33,35
			1.14	1,70	1.20	1,80	-	-	J55	0.113	2,87	0.824	20,93	1.313	33,35
			-	-	1.54	2,30	-	-		0.154	3,91	0.742	18,84	1.313	33,35
			1.14	1,70	1.20	1,80	-	-	N80	0.113	2,87	0.824	20,93	1.313	33,35
			1.48	2,20	1.54	2,30	-	-		0.154	3,91	0.792	18,84	1.313	33,35
			1.44	1,70	1.20	1,80	-	-	L80	0.113	2,87	0.824	20,93	1.313	33,35
			1.48	2,20	1.54	2,30	-	-		0.154	3,91	0.742	18,84	1.313	33,35
			1.14	1,70	1.20	1,80	-	-	C90	0.113	2,87	0.824	20,93	1.313	33,35
			1.48	2,20	1.54	2,30	-	-		0.154	3,91	0.742	18,84	1.313	33,35
			1.14	1,70	1.20	1,80	-	-	T95	0.113	2,87	0.824	20,93	1.313	33,35
			1.48	2,20	1.54	2,30	-	-		0.154	3,91	0.742	18,84	1.313	33,35
			1.48	2,20	1.54	2,30	-	-	P110	0.154	3,91	0.742	18,84	-	-
			1.315	1.315	33.4	1.70	2,53	1.80	2,68	1.72	2,60	H40	0.133	3,38	1.049
-	-	2.24				3,34	-	-	0.179	4,55	0.957		24,30	1.660	42,16
1.70	2,53	1.80				2,68	1.72	2,60	J55	0.133	3,38	1.049	26,64	1.660	42,16
-	-	2.24				3,34	-	-		0.179	4,55	0.957	24,30	1.660	42,16
1.70	2,53	1.80				2,68	1.72	2,60	N80	0.133	3,38	1.049	26,64	1.660	42,16
2.19	3,26	2.24				3,34	-	-		0.179	4,55	0.957	24,30	1.660	42,16
1.70	2,53	1.80				2,68	1.72	2,60	L80	0.133	3,38	1.049	26,64	1.660	42,16
2.19	3,26	2.24				3,34	-	-		0.179	4,55	0.957	24,30	1.660	42,16
1.70	2,53	1.80				2,68	1.72	2,60	C90	0.133	3,38	1.049	26,64	1.660	42,16
2.19	3,26	2.24				3,34	-	-		0.179	4,55	0.957	24,30	1.660	42,16
1.70	2,53	1.80				2,68	1.72	2,60	T95	0.133	3,38	1.049	26,64	1.660	42,16
2.19	3,26	2.24				3,34	-	-		0.179	4,55	0.957	24,30	1.660	42,16
2.19	3,26	2.24				3,34	-	-	P110	0.179	4,55	0.957	24,30	-	-
1.660	1.660	42.2				-	-	-	-	2.10	3,12	H40	0.125	3,18	1.410	35,80	-	-
			2.30	3,42	2.40	3,57	2.33	3,47	0.140	3,56	1.380		35,10	2.054	52,17
			-	-	3.07	4,57	-	-	0.191	4,85	1.278		32,46	2.054	52,17
			-	-	-	-	2.10	3,12	J55	0.125	3,18	1.410	35,80	-	-
			2.30	3,42	2.40	3,57	2.33	3,47		0.140	3,56	1.380	35,10	2.054	52,17
			-	-	3.07	4,57	-	-		0.191	4,85	1.278	32,46	2.054	52,17
			2.30	3,42	2.40	3,57	2.33	3,47		0.140	3,56	1.380	35,10	2.054	52,17
			3.03	4,51	3.07	4,57	-	-	N80	0.191	4,85	1.278	32,46	2.054	52,17
			2.30	3,42	2.40	3,57	2.33	3,47		0.140	3,56	1.380	35,10	2.054	52,17
			2.30	3,42	2.40	3,57	2.33	3,47		0.191	4,85	1.278	32,46	2.054	52,17
2.30	3,42	2.40	3,57	2.33	3,47	L80	0.140	3,56	1.380	35,10	2.054	52,17			

API 5CT Tubing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupled				Int. joint				Hydrostatic test pressure					Size Dimensions
Coupling outside diameter				Pin inside diameter				Plain-end	Integral	Non-upset	Ext.upset		
Regular		Special clearance		Box outside diameter		Regular					Special clearance		
in	mm	in	mm	in	mm	in	mm	KSi	KSi	KSi	KSi	KSi		in
1.660	42,16	-	-	-	-	-	-	3,0	-	3,0	3,0	-	1.050
1.660	42,16	-	-	-	-	-	-	3,0	-	-	3,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	3,0	3,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	-	3,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.660	42,16	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	3,0	3,0	3,0	-	1.315
1.900	48,26	-	-	-	-	-	-	3,0	-	-	3,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	3,0	3,0	3,0	-	
1.900	48,26	-	-	-	-	-	-	3,0	-	-	3,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	10,0	10,0	10,0	-	
1.900	48,26	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	10,0	10,0	10,0	-	
1.900	48,26	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	10,0	10,0	10,0	-	
1.900	48,26	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	10,0	10,0	10,0	-	
1.900	48,26	-	-	-	-	-	-	3,0	-	-	10,0	-	
1.900	48,26	-	-	0.970	24,64	1.550	39,37	3,0	-	-	10,0	-	
1.900	48,26	-	-	-	-	-	-	3,0	-	-	10,0	-	
-	-	-	-	1.301	33,05	1.880	47,75	3,0	3,0	-	-	-	1.660
2.200	55,88	-	-	1.301	33,05	1.880	47,75	3,0	3,0	3,0	3,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	-	3,0	-	
-	-	-	-	1.301	33,05	1.880	47,75	3,0	3,0	-	-	-	
2.200	55,88	-	-	1.301	33,05	1.880	47,75	3,0	3,0	3,0	3,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	-	3,0	-	
2.200	55,88	-	-	1.301	33,05	1.880	47,75	3,0	10,0	10,0	10,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
2.200	55,88	-	-	1.301	33,05	1.880	47,75	3,0	10,0	10,0	10,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	10,0	10,0	-	

API 5CT Tubing pipe

• DIMENSIONS, WEIGHTS

Size designat	Outside diameter		Nominal weight						Grades	Tube/pipe					
			Non-upset		Upset		Integral joint			Wall thickness		Inside diameter		Coupling outside diameter Non-upset	
			lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m							
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		
1.660	1.660	42.2	3.03	4,51	3.07	4,57	-	-	L80	0.191	4,85	1.278	32,46	2.054	52,17
			2.30	3,42	2.40	3,57	2.33	3,47		C90	0.140	3,56	1.380	35,10	2.054	52,17
			3.03	4,51	3.07	4,57	-	-	T95		0.191	4,85	1.278	32,46	2.054	52,17
			2.30	3,42	2.40	3,57	2.33	3,47		P110	0.140	3,56	1.380	35,10	2.054	52,17
			3.03	4,51	3.07	4,57	-	-	P110		0.191	4,85	1.278	32,46	2.054	52,17
			3.03	4,51	3.07	4,57	-	-			0.191	4,85	1.278	32,46	-
1.900	1.900	48.3	-	-	-	-	2.40	3,57	H40	0.125	3,18	1.650	41,91	-	-
			2.75	4,09	2.90	4,31	2.76	4,11		H40	0.145	3,68	1.610	40,89	2.200	55,88
			-	-	3.73	5,55	-	-	J55		0.200	5,08	1.500	38,10	2.200	55,88
			-	-	-	-	2.40	3,57		J55	0.125	3,18	1.650	41,91	-
			2.75	4,09	2.90	4,31	2.76	4,11	N80		0.145	3,68	1.610	40,89	2.200	55,88
			-	-	3.73	5,55	-	-		N80	0.200	5,08	1.500	38,10	2.200	55,88
			2.75	4,09	2.90	4,31	2.76	4,11	L80		0.145	3,68	1.610	40,89	2.200	55,88
			3.65	5,43	3.73	5,55	-	-		L80	0.200	5,08	1.500	38,10	2.200	55,88
			2.75	4,09	2.90	4,31	2.76	4,11	C90		0.145	3,68	1.610	40,89	2.200	55,88
			3.65	5,43	3.73	5,55	-	-		C90	0.200	5,08	1.500	38,10	2.200	55,88
			4.42	6,58	-	-	-	-	T95		0.250	6,35	1.400	35,56	-
			5.15	7,66	-	-	-	-		T95	0.300	7,62	1.300	33,02	-
			2.75	4,09	2.90	4,31	2.76	4,11	P110		0.145	3,68	1.610	40,89	2.200	55,88
			3.65	5,43	3.73	5,55	-	-		P110	0.200	5,08	1.500	38,10	2.200	55,88
			4.42	6,58	-	-	-	-	P110		0.250	6,35	1.400	35,56	-
			5.15	7,66	-	-	-	-		P110	0.300	7,62	1.300	33,02	-
			2.75	4,09	2.90	4,31	2.76	4,11	P110		0.145	3,68	1.610	40,89	2.200	55,88
			3.65	5,43	3.73	5,55	-	-		P110	0.200	5,08	1.500	38,10	2.200	55,88
			4.42	6,58	-	-	-	-	P110		0.250	6,35	1.400	35,56	-
			5.15	7,66	-	-	-	-		P110	0.300	7,62	1.300	33,02	-
3.65	5,43	3.73	5,55	-	-	P110	0.200	5,08	1.500		38,10	-	-		
-	-	-	-	3.25	4,84		H40	0.156	3,96	1.751	44,48	-	-		
4.50	6,70	-	-	-	-	J55		0.225	5,71	1.613	40,97	-	-		
-	-	-	-	3.25	4,84		N80	0.156	3,96	1.751	44,48	-	-		
4.50	6,70	-	-	-	-	L80		0.225	5,71	1.613	40,97	-	-		
-	-	-	-	3.25	4,84		L80	0.156	3,96	1.751	44,48	-	-		
4.50	6,70	-	-	-	-	C90		0.225	5,71	1.613	40,97	-	-		
-	-	-	-	3.25	4,84		C90	0.156	3,96	1.751	44,48	-	-		
4.50	6,70	-	-	-	-			0.225	5,71	1.613	40,97	-	-		
-	-	-	-	3.25	4,84		0.156	3,96	1.751	44,48	-	-			

API 5CT Tubing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupled				Int. joint				Hydrostatic test pressure					Size Dimensions
Coupling outside diameter				Pin inside diameter		Box outside diameter		Plain-end	Integral	Non-upset	Ext.upset		
Regular		Special clearance									Regular	Special clearance	
in	mm	in	mm	in	mm	in	mm	KSi	KSi	KSi	KSi	KSi		in
2.200	55,88	-	-	-	-	-	-	3,0	-	10,0	10,0	-	1.660
2.200	55,88	-	-	1.301	33,05	1.880	47,75	3,0	10,0	10,0	10,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
2.200	55,88	-	-	1.301	33,05	1.880	47,75	3,0	10,0	10,0	10,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
2.200	55,88	-	-	-	-	-	-	3,0	-	-	10,0	-	
-	-	-	-	1.531	38,89	2.110	53,59	3,0	3,0	-	-	-	1.900
2.500	63,50	-	-	1.531	38,89	2.110	53,59	3,0	3,0	3,0	3,0	-	
2.500	63,50	-	-	-	-	-	-	3,0	-	-	3,0	-	
-	-	-	-	1.531	38,89	2.110	53,59	3,0	3,0	-	-	-	
2.500	63,50	-	-	1.531	38,89	2.110	53,59	3,0	3,0	3,0	3,0	-	
2.500	63,50	-	-	-	-	-	-	3,0	-	-	3,0	-	
2.500	63,50	-	-	1.531	38,89	2.110	53,59	3,0	9,8	9,8	9,8	-	
2.500	63,50	-	-	-	-	-	-	3,0	-	-	10,0	-	
2.500	63,50	-	-	1.531	38,89	2.110	53,59	3,0	9,8	9,8	9,8	-	
2.500	63,50	-	-	-	-	-	-	3,0	-	-	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
2.500	63,50	-	-	1.531	38,89	2.110	53,59	3,0	10,0	10,0	10,0	-	
2.500	63,50	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
2.500	63,50	-	-	1.531	38,89	2.110	53,59	3,0	10,0	10,0	10,0	-	
2.500	63,50	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
2.500	63,50	-	-	1.672	42,47	2.325	59,05	3,0	3,0	-	-	-	2.063
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	1.672	42,47	2.325	59,05	3,0	3,0	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
-	-	-	-	1.672	42,47	2.325	59,05	3,0	9,6	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	1.672	42,47	2.325	59,05	3,0	9,6	-	-	-	
-	-	-	-	-	-	-	-	3,0	10,0	-	-	-	

API 5CT Tubing pipe

API 5CT Tubing pipe

• DIMENSIONS, WEIGHTS

• HYDROSTATIC TEST PRESSURE

Size designait	Outside diameter		Nominal weight						Grades	Tube/pipe					
			Non-upset		Upset		Integral joint			Wall thickness		Inside diameter		Coupling outside diameter Non-upset	
			lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m		inch	mm	inch	mm	inch	mm
2.063	2.063	52.4	4.50	6,70	–	–	–	–	C90	0.225	5,71	1.613	40,97	–	–
			–	–	–	–	3.25	4,84		T95	0.156	3,96	1.751	44,48	–
			4.50	6,70	–	–	–	–	P110		0.225	5,71	1.613	40,97	–
			4.50	6,70	–	–	–	–		H40	0.167	4,24	2.041	51,84	2.875	73,03
2 3/8	2.375	60.3	4.00	5,95	–	–	–	–	H40	0.167	4,24	2.041	51,84	2.875	73,03
			4.60	6,84	4.70	7,0	–	–		0.190	4,83	1.995	50,67	2.875	73,03
			4.00	5,95	–	–	–	–	J55	0.167	4,24	2.041	51,84	2.875	73,03
			4.60	6,84	4.70	7,0	–	–		0.190	4,83	1.995	50,67	2.875	73,03
			4.00	5,95	–	–	–	–	N80	0.167	4,24	2.041	51,84	2.875	73,03
			4.60	6,84	4.70	7,0	–	–		0.190	4,83	1.995	50,67	2.875	73,03
			5.80	8,63	5.95	8,78	–	–	L80	0.254	6,45	1.867	47,42	2.875	73,03
			4.00	5,95	–	–	–	–		0.167	4,24	2.041	51,84	2.875	73,03
			4.60	6,84	4.70	7,0	–	–	C90	0.190	4,83	1.995	50,67	2.875	73,03
			5.80	8,63	5.95	8,78	–	–		0.254	6,45	1.867	47,42	2.875	73,03
			6.60	9,82	–	–	–	–	T95	0.295	7,49	1.785	45,34	2.875	73,03
			7.35	10,94	7.45	11,09	–	–		0.336	8,53	1.703	43,25	2.875	73,03
			4.00	5,95	–	–	–	–	P110	0.167	4,24	2.041	51,84	2.875	73,03
			4.60	6,84	4.70	7,0	–	4,84		0.190	4,83	1.995	50,67	2.875	73,03
			5.80	8,63	5.95	8,78	–	–	H40	0.254	6,45	1.867	47,42	2.875	73,03
			6.60	9,82	–	–	–	–		0.295	7,49	1.785	45,34	2.875	73,03
			7.35	10,94	7.45	11,09	–	–	J55	0.336	8,53	1.703	43,25	2.875	73,03
			4.00	5,95	–	–	3.25	–		0.167	4,24	2.041	51,84	2.875	73,03
			4.60	6,84	4.70	7,0	–	–	N80	0.190	4,83	1.995	50,67	2.875	73,03
			5.80	8,63	5.95	8,78	–	–		0.254	6,45	1.867	47,42	2.875	73,03
			6.60	9,82	–	–	–	–	L80	0.295	7,49	1.785	45,34	2.875	73,03
			7.35	10,94	7.45	11,09	–	–		0.336	8,53	1.703	43,25	2.875	73,03
4.60	6,84	4.70	7,0	–	–	P110	0.190	4,83	1.995	50,67	2.875	73,03			
5.80	8,63	5.95	8,78	–	–		0.254	6,45	1.867	47,42	2.875	73,03			

Thread and coupled				Int. joint				Hydrostatic test pressure					Size Dimensions in
Coupling outside diameter				Pin inside diameter		Box outside diameter		Plain-end	Integral	Non-upset	Ext.upset		
Regular		Special clearance									Regular	Special clearance	
in	mm	in	mm	in	mm	in	mm	KSi	KSi	KSi			
–	–	–	–	–	–	–	–	3,0	–	–	–	–	2.063
–	–	–	–	1.672	42,47	2.325	59,05	3,0	10,0	–	–	–	
–	–	–	–	–	–	–	–	3,0	–	–	–	–	
–	–	–	–	–	–	–	–	3,0	–	–	–	–	
–	–	–	–	–	–	–	–	3,0	–	3,0	–	–	2 3/8
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	3,0	3,0	3,0	
–	–	–	–	–	–	–	–	3,0	–	3,0	–	–	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	3,0	3,0	3,0	
–	–	–	–	–	–	–	–	3,0	–	9,0	–	–	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	9,1	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	9,1	
–	–	–	–	–	–	–	–	3,0	–	9,0	–	–	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	9,1	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	9,1	
–	–	–	–	–	–	–	–	3,0	–	10,0	–	–	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	9,1	
–	–	–	–	–	–	–	–	3,0	–	10,0	–	–	
3.063	77,80	–	–	–	–	–	–	3,0	–	10,0	10,0	–	
3.063	77,80	–	–	–	–	–	–	3,0	–	10,0	10,0	–	
–	–	–	–	–	–	–	–	3,0	–	10,0	–	–	
3.063	77,80	–	–	–	–	–	–	3,0	–	10,0	10,0	–	
3.063	77,80	–	–	–	–	–	–	3,0	–	10,0	10,0	–	
–	–	–	–	–	–	–	–	3,0	–	10,0	–	–	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	10,0	
3.063	77,80	2.910	73,91	–	–	–	–	3,0	–	10,0	10,0	10,0	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	3,0	3,0	3,0	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	3,0	3,0	3,0	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	9,7	9,7	8,8	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	10,0	10,0	8,8	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	10,0	10,0	8,8	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	9,7	9,7	8,8	
3.668	93,17	3.460	87,88	–	–	–	–	3,0	–	10,0	10,0	8,8	



API 5CT Tubing pipe

• DIMENSIONS, WEIGHTS

Size designat	Outside diameter		Nominal weight						Grades	Tube/pipe					
			Non-upset		Upset		Integral joint			Wall thickness		Inside diameter		Coupling outside diameter Non-upset	
			lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m		inch	mm	inch	mm	inch	mm
2 7/8	2.875	73.0	9.35	13,91	9.45	14,06	-	-	L80	0.340	8,64	2.195	55,75	3.500	88,90
			10.50	15,63	-	-	-	-		0.392	9,96	2.091	53,11	-	-
			11.50	17,11	-	-	-	-		0.440	11,18	1.995	50,67	-	-
			6.40	9,52	6.50	9,67	-	-	C90	0.217	5,51	2.441	62,00	3.500	88,90
			7.80	11,60	7.90	11,75	-	-		0.276	7,01	2.323	59,00	3.500	88,90
			8.60	12,80	8.70	12,94	-	-		0.308	7,82	2.259	57,38	3.500	88,90
			9.35	13,91	9.45	14,06	-	-		0.340	8,64	2.195	55,75	3.500	88,90
			10.50	15,63	-	-	-	-		0.392	9,96	2.091	53,11	-	-
			11.50	17,11	-	-	-	-		0.440	11,18	1.995	50,67	-	-
			6.40	9,52	6.50	9,67	-	-	T95	0.217	5,51	2.441	62,00	3.500	88,90
			7.80	11,60	7.90	11,75	-	-		0.276	7,01	2.323	59,00	3.500	88,90
			8.60	12,80	8.70	12,94	-	-		0.308	7,82	2.259	57,38	3.500	88,90
			9.35	13,91	9.45	14,06	-	-		0.340	8,64	2.195	55,75	3.500	88,90
			10.50	15,63	-	-	-	-		0.392	9,96	2.091	53,11	-	-
			11.50	17,11	-	-	-	-		0.440	11,18	1.995	50,67	-	-
			6.40	9,52	6.50	9,67	-	-	P110	0.217	5,51	2.441	62,00	3.500	88,90
			7.80	11,60	7.90	11,75	-	-		0.276	7,01	2.323	59,00	3.500	88,90
			8.60	12,80	8.70	12,94	-	-		0.308	7,82	2.259	57,38	3.500	88,90
3 1/2	3.500	88.9	7.70	11,46	-	-	-	-	H40	0.216	5,49	3.068	77,93	4.250	107,95
			9.20	13,69	9.30	13,84	-	-		0.254	6,45	2.992	76,00	4.250	107,95
			10.20	15,18	-	-	-	-		0.289	7,34	2.922	74,22	4.250	107,95
			7.70	11,46	-	-	-	-	J55	0.216	5,49	3.068	77,93	4.250	107,95
			9.20	13,69	9.30	13,84	-	-		0.254	6,45	2.992	76,00	4.250	107,95
			10.20	15,18	-	-	-	-		0.289	7,34	2.922	74,22	4.250	107,95
			7.70	11,46	-	-	-	-	N80	0.216	5,49	3.068	77,93	4.250	107,95
			9.20	13,69	9.30	13,84	-	-		0.254	6,45	2.992	76,00	4.250	107,95
			10.20	15,18	-	-	-	-		0.289	7,34	2.922	74,22	4.250	107,95
			12.70	18,90	12.95	19,27	-	-	L80	0.375	9,52	2.750	69,85	4.250	107,95
			7.70	11,46	-	-	-	-		0.216	5,49	3.068	77,93	4.250	107,95
			9.20	13,69	9.30	13,84	-	-		0.254	6,45	2.992	76,00	4.250	107,95
			10.20	15,18	-	-	-	-		0.289	7,34	2.922	74,22	4.250	107,95
			12.70	18,90	12.95	19,27	-	-		0.375	9,52	2.750	69,21	4.250	107,95
			14.30	21,28	-	-	-	-		0.430	10,92	2.640	67,05	-	-
			15.50	23,07	-	-	-	-	L80	0.476	12,09	2.548	64,71	-	-
			17.00	25,30	-	-	-	-		0.530	13,46	2.440	61,97	-	-

API 5CT Tubing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupled				Int. joint				Hydrostatic test pressure					Size Dimensions
Coupling outside diameter				Pin inside diameter				Plain-end	Integral	Non-upset	Ext.upset		
Regular		Special clearance		Box outside diameter		Regular	Special clearance						
in	mm	in	mm	in	mm			in	mm	KSi	KSi	KSi	
3.668	93,17	3.460	87,88	-	-	-	-	3,0	-	10,0	10,0	8,8	2 7/8
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
3.668	93,17	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
3.668	93,17	3.460	87,88	-	-	-	-	3,0	-	10,0	10,0	10,0	
3.668	93,17	3.460	87,88	-	-	-	-	3,0	-	10,0	10,0	10,0	
3.668	93,17	3.460	87,88	-	-	-	-	3,0	-	10,0	10,0	10,0	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	3,0	3,0	3,0	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	3,0	3,0	3,0	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
-	-	-	-	-	-	-	-	3,0	-	7,9	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	9,3	9,3	8,5	
-	-	-	-	-	-	-	-	3,0	-	10,0	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	10,0	10,0	8,5	
-	-	-	-	-	-	-	-	3,0	-	7,9	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	9,3	9,3	8,5	
-	-	-	-	-	-	-	-	3,0	-	10,0	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	10,0	10,0	8,5	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	



API 5CT Tubing pipe

• DIMENSIONS, WEIGHTS

Size designat	Outside diameter		Nominal weight						Grades	Tube/pipe								
			Non-upset		Upset		Integral joint			Wall thickness		Inside diameter		Coupling outside diameter Non-upset				
			lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m		inch	mm	inch	mm	inch	mm			
3 1/2	3.500	88.9	7.70	11,46	-	-	-	-	C90	0.216	5,49	3.068	77,93	4.250	107,95			
			9.20	13,69	9.30	13,84	-	-		0.254	6,45	2.992	76,00	4.250	107,95			
			10.20	15,18	-	-	-	-		0.289	7,34	2.922	74,22	4.250	107,95			
			12.70	18,90	12.95	19,27	-	-		0.375	9,52	2.750	69,85	4.250	107,95			
			14.30	21,28	-	-	-	-		0.430	10,92	2.640	67,05	-	-			
			15.50	23,07	-	-	-	-		0.476	12,09	2.548	64,71	-	-			
			17.00	25,30	-	-	-	-		0.530	13,46	2.440	61,97	-	-			
			7.70	11,46	-	-	-	-		0.216	5,49	3.068	77,93	4.250	107,95			
			9.20	13,69	9.30	-	-	-		0.254	6,45	2.992	76,00	4.250	107,95			
			10.20	15,18	-	-	-	-	0.289	7,34	2.922	74,22	4.250	107,95				
			12.70	18,90	12.95	19,27	-	-	0.375	9,52	2.750	69,21	4.250	107,95				
			14.30	21,28	-	-	-	-	0.430	10,92	2.640	67,05	4.250	107,95				
			15.50	23,07	-	-	-	-	0.476	12,09	2.548	64,71	4.250	107,95				
			17.00	25,30	-	-	-	-	0.530	13,46	2.440	61,97	4.250	107,95				
			9.20	13,69	9.30	13,84	-	-	0.254	6,45	2.992	76,00	4.250	107,95				
			12.70	18,90	12.95	19,27	-	-	0.375	9,52	2.750	69,21	4.250	107,95				
			4	4.000	101.6	9.50	14,13	-	-	-	-	H40	0.226	5,74	3.548	90,12	4.750	120,60
						-	-	11.00	16,37	-	-		0.262	6,65	3.476	88,29	-	-
9.50	14,13	-				-	-	-	J55	0.226	5,74	3.548	90,12	4.750	120,60			
-	-	11.00				16,37	-	-		0.262	6,65	3.476	88,29	-	-			
9.50	14,13	-				-	-	-	N80	0.226	5,74	3.548	90,12	4.750	120,60			
-	-	11.00				16,37	-	-		0.262	6,65	3.476	88,29	-	-			
9.50	14,13	-				-	-	-	L80	0.226	5,74	3.548	90,11	4.750	120,60			
-	-	11.00				16,37	-	-		0.262	6,65	3.476	88,29	-	-			
13.20	19,64	-				-	-	-		0.330	8,38	3.340	84,83	-	-			
16.10	23,96	-				-	-	-		0.412	10,46	3.170	80,51	-	-			
18.90	28,13	-				-	-	-		0.500	12,70	3.000	76,20	-	-			
22.20	33,04	-				-	-	-		0.610	15,49	2.780	70,61	-	-			
9.50	14,13	-				-	-	-	C90	0.226	5,74	3.548	90,11	4.750	120,60			
-	-	11.00				16,37	-	-		0.262	6,65	3.476	88,29	-	-			
13.20	19,64	-				-	-	-		0.330	8,38	3.340	84,83	-	-			
16.10	23,96	-				-	-	-		0.412	10,46	3.170	80,51	-	-			
18.90	28,13	-				-	-	-		0.500	12,70	3.000	76,20	-	-			
22.20	33,04	-				-	-	-		0.610	15,49	2.780	70,61	-	-			

API 5CT Tubing pipe

• HYDROSTATIC TEST PRESSURE

Thread and coupled				Int. joint				Hydrostatic test pressure					Size Dimensions
Coupling outside diameter				Pin inside diameter		Box outside diameter		Plain-end	Integral	Non-upset	Ext.upset		
Ext. upset		Regular	Special clearance								Regular	Special clearance	
in	mm	in	mm	in	mm	in	mm	KS	KS	KS	KS	KS		in
-	-	-	-	-	-	-	-	3,0	-	8,9	-	-	3 1/2
4.500	114,30	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	10,0	-	-	
4.500	114,30	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	9,4	-	-	
4.500	114,30	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	10,0	-	-	
4.500	114,30	-	-	-	-	-	-	3,0	-	10,0	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	10,0	10,0	10,0	
4.500	114,30	4.180	106,17	-	-	-	-	3,0	-	10,0	10,0	10,0	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
5.000	127,00	-	-	-	-	-	-	3,0	-	-	3,0	-	
-	-	-	-	-	-	-	-	3,0	-	3,0	-	-	
5.000	127,00	-	-	-	-	-	-	3,0	-	-	3,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
5.000	127,00	-	-	-	-	-	-	3,0	-	-	8,4	-	
-	-	-	-	-	-	-	-	3,0	-	7,2	-	-	
5.000	127,00	-	-	-	-	-	-	3,0	-	-	8,4	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	8,1	-	-	
5.000	127,00	-	-	-	-	-	-	3,0	-	-	9,4	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	



API 5CT Tubing pipe

API 5CT Tubing Pipe

• DIMENSIONS, WEIGHTS

• HYDROSTATIC TEST PRESSURE

Size designat	Outside diameter		Nominal weight						Grades	Tube/pipe					
			Non-upset		Upset		Integral joint			Wall thickness		Inside diameter		Coupling outside diameter Non-upset	
			lb/ft	kg/m	lb/ft	kg/m	lb/ft	kg/m		inch	mm	inch	mm	inch	mm
4	4.000	101.6	9.50	14,13	-	-	-	-	T95	0.226	5,74	3.548	90,11	4.750	120,60
			-	-	11.00	16,37	-	-		0.262	6,65	3.476	88,29	-	-
			13.20	19,64	-	-	-	-		0.330	8,38	3.340	84,83	-	-
			16.10	23,96	-	-	-	-		0.415	10,46	3.170	80,51	-	-
			18.90	28,13	-	-	-	-		0.500	12,70	3.000	76,20	-	-
			22.20	33,04	-	-	-	-		0.610	15,49	2.780	70,61	-	-
4 1/2	4.500	114.3	12.60	18,75	12.75	18,97	-	-	H40	0.271	6,88	3.958	100,53	5.200	132,10
			12.60	18,75	12.75	18,97	-	-	J55	0.271	6,88	3.958	100,53	5.200	132,10
			12.60	18,75	12.75	18,97	-	-	N80	0.271	6,88	3.958	100,53	5.200	132,10
			12.60	18,75	12.75	18,97	-	-	L80	0.271	6,88	3.958	100,53	5.200	132,10
			15.20	22,62	-	-	-	-		0.337	8,55	3.826	97,18	-	-
			18.90	28,30	-	-	-	-		0.430	10,92	3.640	92,45	-	-
			21.50	32,00	-	-	-	-		0.500	12,70	3.500	88,90	-	-
			23.70	35,27	-	-	-	-		0.560	14,22	3.380	85,85	-	-
			26.10	38,84	-	-	-	-		0.630	16,00	3.240	82,29	-	-
			12.60	18,75	12.75	18,97	-	-	C90	0.271	6,88	3.958	100,53	5.200	132,10
			15.20	22,62	-	-	-	-		0.337	8,55	3.826	97,18	-	-
			17.00	25,30	-	-	-	-		0.380	9,65	3.740	94,99	-	-
			18.90	28,30	-	-	-	-		0.430	10,92	3.640	92,45	-	-
			21.50	32,00	-	-	-	-		0.500	12,70	3.500	88,90	-	-
			23.70	35,27	-	-	-	-		0.560	14,22	3.380	85,85	-	-
			26.10	38,84	-	-	-	-	0.630	16,00	3.240	82,29	-	-	
			12.60	18,75	12.75	18,97	-	-	T95	0.271	6,88	3.958	100,53	5.200	132,10
			15.20	22,62	-	-	-	-		0.337	8,55	3.826	97,18	-	-
17.00	25,30	-	-	-	-	0.380	9,65	3.740		94,99	-	-			
18.90	28,30	-	-	-	-	0.430	10,92	3.640		92,45	-	-			
21.50	32,00	-	-	-	-	0.500	12,70	3.500		88,90	-	-			
23.70	35,27	-	-	-	-	0.560	14,22	3.380		85,85	-	-			
26.10	38,84	-	-	-	-	0.630	16,00	3.240	82,89	-	-				

Thread and coupled				Int. joint				Hydrostatic test pressure					Size Dimensions
Coupling outside diameter				Pin inside diameter		Box outside diameter		Plain-end	Integral	Non-upset	Ext.upset		
Regular		Special clearance									Regular	Special clearance	
in	mm	in	mm	in	mm	in	mm	KSi	KSi	KSi	KSi	KSi		in
-	-	-	-	-	-	-	-	3,0	-	8,6	-	-	4
5.000	127,00	-	-	-	-	-	-	3,0	-	-	10,0	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
5.563	141,30	-	-	-	-	-	-	3,0	-	3,0	3,0	-	4 1/2
5.563	141,30	-	-	-	-	-	-	3,0	-	3,0	3,0	-	
5.563	141,30	-	-	-	-	-	-	3,0	-	7,7	7,7	-	
5.563	141,30	-	-	-	-	-	-	3,0	-	7,7	7,7	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
5.563	141,30	-	-	-	-	-	-	3,0	-	8,7	8,7	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
5.563	141,30	-	-	-	-	-	-	3,0	-	9,2	9,2	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	
-	-	-	-	-	-	-	-	3,0	-	-	-	-	

corrosive service : main ASTM standards

ASTM	Seamless	Welded	Type	To be used	page
A 213	•		Austenitic	exchanger, Boiler, superheater	9
			Ferritic	Boiler, superheater	
A 249		• Without filler metal	Austenitic	Boiler, superheater, exchanger, condenser	114
A 269	•	•	Austenitic	General service	115
A312	•	• Without filler metal	Austenitic	High temperature and general service	116
A 358		• EFW	Austenitic	High corrosive or high temperature service	116
A 409		•	Austenitic	Large diameter, high corrosive or high temperature service	-
A 790	•	• Without filler metal	Ferritic/ Austenitic	Stress corrosion cracking	-

ASTM A249/249 M:2023

• Chemical Requirements^A, %

Grade	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	N ^B	Cu	Other
TP304	S30400	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	...	...	...	...
TP304L ^C	S30403	0.030	2.00	0.045	0.030	1.00	18.0-20.0	8.0-12.0	...	...	...	...
TP304H	S30409	0.04-0.10	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0	...	...	...	...
TP316	S31600	0.08	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00			
TP316L ^C	S31603	0.030	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00			
TP316H	S31609	0.04-0.10	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00			
TP321	S32100	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	0.10	...	5 (C+N) < Ti < 0.70
TP321H	S32109	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	0.10	...	5 (C+N) < Ti < 0.70
TP347	S34700	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	...	...	10 C < Nb < 1.10
TP347H	S34709	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0	...	...	...	8 C < Nb < 1.10
Alloy 20	N08020	0.070	2.00	0.045	0.035	1.00	19.0-21.0	32.0-38.0	2.00-3.00	...	3.00-4.00	8 C < Nb < 1.00
800	N08800	0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.0-35.0	...	...	0.75	Al 0.15-0.60 Ti 0.15-0.60 Fe ^D 39.5 min
800H	N08810	0.05-0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.0-35.0	...	...	0.75	Al 0.15-0.60 Ti 0.15-0.60 Fe ^D 39.5 min

^A Maximum, unless otherwise indicated

^B The method of analysis for nitrogen shall be a matter of agreement between the purchaser and manufacturer

^C For small diameter or thin walls, or both, where many drawing passes are required, a carbon maximum of 0.040 % is necessary in Grades TP 304L and TP 316L. Small outside diameter tubes are defined as those less than 0.500 in. [12.7 mm] in outside diameter and light wall are those less than 0.049 in. [1.2 mm] in minimum wall thickness.

^D Iron shall be determined arithmetically by difference of 100 minus the sum of the other specified elements.

TENSILE Requirements

Grade	Tensile strength min		Yield strength min		Elongation min % (on 2" or 50 mm)	Rockwell Hardness Number, max	Vickers Hardness Number, max ^C	
	MPa	Ksi	MPa					
TP304 L TP316 L	70	485	25	170	35	B90	200	
800	75	515	30	205	30	B90	200	
Alloy 20	N08020	80	550	35	240	30	B95	230
	N08327 ^A	100	690	45	310	30	B100	270
	N08327 ^B	95	655	45	310	30	B100	270
Other grades	75	515	30	205	35	B90	200	

^A t 0.187 in. [5mm] ^B t > 0.187 in. [5 mm]

^C For tubing less than 0.354 in. [9.00 mm] in inside diameter and for tubing less than 0.065 in. [1.65 mm] in wall thickness, it is permissible to use the Vickers hardness test in lieu of the Rockwell test.

ASTM A269/269 M:2022

• Chemical Requirements^A & Hardness Requirements

Grade	UNS Designation	Chemical Composition									Hardness
		C	Mn	P	S	Si	Ni	Cr	Mo	Other	
TP 304	S30400	0.08	2.00	0.045	0.030	1.00	8.0-11.0	18.0-20.0	192 HBW/200 HV or 90 HRB
TP 304L	S30403	0.035 ^B	2.00	0.045	0.030	1.00	8.0-12.0	18.0-20.0	...	...
TP316	S31600	0.08	2.00	0.045	0.030	1.00	10.0-14.0	16.0-18.0	2.00-3.00	...	
TP316 L	31603	0.035 ^B	2.00	0.045	0.030	1.00	10.0-15.0	16.0-18.0	2.00-3.00	...	
TP321	S32100	0.08	2.00	0.045	0.030	1.00	9.0-12.0	17.0-19.0	...	5(C+N) ≤ Ti ≤ 0.70	
TP 347	S34700	0.08	2.00	0.045	0.030	1.00	9.0-12.0	17.0-19.0		10xC ≤ Cb ≤ 1.10	
...	S31725	0.035	2.00	0.045	0.030	1.00	13.5-17.5	18.0-20.0	4.0-5.0	N:0.20	
...	S31254	0.020	1.00	0.030	0.015	0.80	17.5-18.5	19.5-20.5	6.0-6.5	N: 0.18-0.25 Cu: 0.50-1.00	

^A Maximum, unless otherwise indicated

^B For OD < 0.5 in. and /or thin walls < 0.049 in. C maxi = 0.040 %

ASTM A312/A312 M:2022

• Chemical Requirements^A

Grade	UNS	C	Mn	P	S	Si	Cr	Ni	Mo	N	Cu	Other
TP 304	S30400	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0				
TP 304L	S30403	0.035 ^B	2.00	0.045	0.030	1.00	18.0-20.0	8.0-13.0				
TP304 H	S30409	0.04-0.10	2.00	0.045	0.030	1.00	18.0-20.0	8.0-11.0				
TP310 S	S31008	0.08	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0	0.75			
TP310 H	S31009	0.04-0.10	2.00	0.045	0.030	1.00	24.0-26.0	19.0-22.0				
TP316	S31600	0.08	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00			
TP316L	S31603	0.035 ^B	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00			
TP316 H	S31609	0.04-0.10	2.00	0.045	0.030	1.00	16.0-18.0	10.0-14.0	2.00-3.00			
TP316Ti	S31635	0.08	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.00-3.00	0.10		Ti 5(C+N)-0.70
TP321	S32100	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0		0.10		Ti 5(C+N)-0.70
TP321H	S32109	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-12.0		0.10		Ti 4(C+N)-0.70
TP347H	S34709	0.04-0.10	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0				Nb:8 C - 1.0%
TP347	S34700	0.08	2.00	0.045	0.030	1.00	17.0-19.0	9.0-13.0				Nb:10 C - 1.00%
Alloy 20	N08020	0.07	2.00	0.045	0.035	1.00	19.0-21.0	32.0-38.0	2.0-3.0		3.0-4.0	8 C < Nb + Ta < 1.00
800	N08800	0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.-35.0			0.75	Al 0.15-0.60 Fe 39.5 min ^C

*For welded TP316 and TP316H pipes, the nickel range shall be: 10.0 – 14.0 %

^A Maximum, unless otherwise indicated

^B For OD < 0.500 in. and /or thickness < 0.049 in: C maxi = 0.040 %

^C Iron shall be determined arithmetically by difference of 100 minus the sum of the other specified elements.

TENSILE REQUIREMENTS

Grades	Tensile strength (min)		Yield strength (min)		Elongation min % (on 2" or 50 mm)		
	KSi	MPa	KSi	MPa			
TP304L TP316L	70	485	25	170	35	25	
TP 321 TP321H	t ≤ 0.375	75	515	30	205	35	25
	t > 0.375	70	485	25	170	35	25
Other grades	75	515	30	205	35	25	

ASTM A358/358 M-2019^A

Conform to ASTM A 240 (plates)

Grade	UNS	C ^B	Mn	P	S	Si	Cr	Ni	Mo	N	Cu	Other
800	N08800	0.10	1.50	0.045	0.015	1.00	19.0-23.0	30.0-35.0	...	...	0.75	Fe: 39.5min Al 0.15-0.60 Ti 0.15-0.60
304	S30400	0.08	2.00	0.045	0.030	0.75	18.0-20.0	8.0-11.0	...	0.10	...	...
304L	S30403	0.030	2.00	0.045	0.030	0.75	18.0-20.0	8.0-12.0	...	0.10	...	...
304H	S30409	0.04-0.10	2.00	0.045	0.030	0.75	18.0-20.0	8.0-10.5	...	...	...	...
310S	S31008	0.08	2.00	0.045	0.030	1.50	24.0-26.0	19.0-22.0	...	...	...	...
316	S31600	0.08	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.00-3.00	0.10	...	...
316L	S31603	0.030	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.00-3.00	0.10	...	...
316H	S31609	0.04-0.10	2.00	0.045	0.030	0.75	16.0-18.0	10.0-14.0	2.00-3.00	...	...	...
321	S32100	0.08	2.00	0.045	0.030	0.75	17.0-19.0	9.0-12.0	...	0.10	...	Ti: 5(C+N)-0.70
321H	S32109	0.04-0.10	2.00	0.045	0.030	0.75	17.0-19.0	9.0-12.0	...	...	...	Ti: 4(C+N)-0.70
347	S34700	0.08	2.00	0.045	0.030	0.75	17.0-19.0	9.0-13.0				Nb: 10C -1.00
347H	S34709	0.04-0.10	2.00	0.045	0.030	0.75	17.0-19.0	9.0-13.0	...	...		Nb: 8C -1.00

^A Maximum, unless otherwise indicated

^B Carbon analysis shall be reported to nearest 0.01 % except for the low-carbon types, which shall be reported to nearest 0.001 %.

TENSILE REQUIREMENTS

Grades	Tensile strength (min)		Yield strength (min)		Elongation min % (on 2" or 50 mm)	Hardness	
	Ksi	MPa	KSI	MPa		Brinell HBW	Rockwell HRBW
800	75	520	30 ^A	205 ^A	30 ^B	...	...
304L	70	485	25	170	40	201	92
316L	70	485	25	170	40	217	95
Other grades	75	515	30	205	40	271	95

^A Yield strength requirements shall not apply to material under 0.020 in [0.50 mm] in thickness.

^B Not applicable for thicknesses under 0.010 in. [0.25 mm].