



PIPE

Included in Steel Cities Steels' Pipe Section are the sizes, types, and grades of continuous butt weld, electric weld, and seamless carbon steel pipe that are normally carried in inventory or are readily available from producing mills.

- **AVAILABILITY CHART**
- **PRODUCT INFORMATION**

PIPE STOCK

Applied in a general sense, pipe is any long, hollow body used for conducting service medium and may be made of clay, cement, wood, brass, lead, aluminum, plastic, cast iron, or steel. Restricted to the steel industry, the term applies to all tubular products intended for conveyance of solids, liquids, and gases. Pipe can also be used for structural and load bearing purposes in the construction and machinery industries.

SINGLE RANDOM LENGTHS

Size Nominal and (OD) Inches	Schedule	Class	Wall Thickness	Weight Per Ft. Plain End	A53F Black Galv. PE T&C	AP15L	A106 SMLS IPS Pressure Pipe
1/8 (0.405)	40	Std	0.068	0.2447	X	X	X
	80	EH	0.095	0.3145	X	X	X
1/4 (0.540)	40	Std	0.088	0.4248	X	X	X
	80	EH	0.119	0.5351	X	X	X
3/8 (0.675)	40	Std	0.091	0.5676	X	X	X
	80	EH	0.126	0.7388	X	X	X
1/2 (0.840)	40	Std	0.109	0.8510	X	X	X
	80	EH	0.147	1.0880	X	X	X
	160	-	0.187	1.3040	-	-	X
		DbIEH	0.294	1.7140	-	-	X
3/4 (1.050)	40	Std	0.113	1.1310	X	X	X
	80	EH	0.154	1.4740	X	X	X
	160	-	0.218	1.9370	-	-	X
		DbIEH	0.308	2.4410	-	-	X
1 (1.315)	40	Std	0.133	1.6790	X	X	X
	80	EH	0.179	2.1720	X	X	X
	160	-	0.250	2.8440	-	X	X
		DbIEH	0.358	3.6590	-	-	X
1-1/4 (1.660)	40	Std	0.140	2.2730	X	X	X
	80	EH	0.191	3.0000	X	X	X
	160	-	0.250	3.7650	-	X	X
	DbIEH	0.382	5.2140	-	-	X	
1-1/2 (1.900)	40	Std	0.145	2.7180	X	X	X
	80	EH	0.200	3.6310	X	X	X
	160	-	0.281	4.8590	-	X	X
	DbIEH	0.400	6.4080	-	-	X	

*Hot Finish EH= Extra Heavy DbIEH=Double Extra Heavy

NOTE: Black PE A53F pipe also available in 25 UL

PIPE STOCK

SINGLE AND DOUBLE RANDOM LENGTHS

Size Nominal and (OD) Inches	Schedule	Class	Wall Thickness	Weight Per Ft. Plain End	A53F Black Galv. PE T&C	API/ A53/ ERW	API/ A53/ A106/ SMLS
2 (2.375)	40	Std	0.154	3.653	X	X	X
	80	EH	0.218	5.022	X	X	X
	160	-	0.343	7.444	-	-	X
		DbIEH	0.436	9.029	-	-	X
2-1/2 (2.875)	40	Std	0.203	5.790	X	X	X
	80	EH	0.276	7.661	X	X	X
	160	-	0.375	10.010	-	-	X
		DbIEH	0.552	13.694	-	-	X
3 (3.500)	40	Std	0.216	7.576	X	X	X
	80	EH	0.300	10.250	X	X	X
	160	-	0.437	14.320	-	-	X
		DbIEH	0.600	18.580	-	-	X
3-1/2 (4.000)	40	Std	0.226	9.109	X	X	X
	80	EH	0.318	12.510	X	X	X
			DbIEH	0.636	22.850	-	-
4 (4.500)		-	0.188	8.660	X	X	-
	40	Std	0.237	10.790	X	X	X
	80	EH	0.337	14.980	X	X	X
		-	0.437	19.010	-	-	X
	160	-	0.531	22.510	-	-	X
		DbIEH	0.674	27.540	-	-	X

If you do not see a size listed, please ask

PIPE STOCK

SINGLE AND DOUBLE RANDOM LENGTHS

Size Nominal and (OD) Inches	Schedule	Class	Wall Thickness	Weight Per Ft. Plain End	API/ A53/ ERW	A53/API/ A106/ SMLS
5 (5.563)	40	Std	0.258	14.62	X	X
	80	EH	0.375	20.78	X	X
	120	-	0.500	27.04	-	X
	160	-	0.625	32.96	-	X
6 (6.625)		DbIEH	0.750	38.58	-	X
	-	-	0.188	12.92	X	-
	40	Std	0.280	18.97	X	X
	80	EH	0.432	28.57	X	X
	120	-	0.562	36.39	-	X
	160	-	0.718	45.30	-	X
		DbIEH	0.864	53.16	-	X
	8 (8.625)	10	-	0.148	13.40	X
	-	-	0.188	16.94	X	-
	20	-	0.250	22.36	X	-
	30	-	0.277	24.70	X	-
	40	Std	0.322	28.55	X	X
	60	-	0.406	35.64	X	X
	80	EH	0.500	43.39	X	X
	100	-	0.593	50.87	-	X
	120	-	0.718	60.93	-	X
	140	-	0.812	67.76	-	X
	160	-	0.906	74.69	-	X
	-	DbIEH	0.875	72.42	-	X

If you do not see a size listed, please ask

PIPE STOCK

SINGLE AND DOUBLE RANDOM LENGTHS

Size Nominal and (OD) Inches	Schedule	Class	Wall Thickness	Weight Per Ft. Plain End	API/ A53/ ERW	A53/API/ A106/ SMLS	
10 (10.750)	-	-	0.188	21.20	X	-	
	-	-	0.219	24.63	X	-	
	20	-	0.250	28.04	X	-	
	30	-	0.307	34.24	X	-	
	40	Std	0.365	40.48	X	X	
	-	EH	0.500	54.74	X	X	
	80	-	0.594	64.33	-	X	
	100	-	0.719	76.93	-	X	
	120	-	0.844	89.20	-	X	
	140	-	1.000	104.10	-	X	
12 (12.750)	160	-	1.125	115.70	-	X	
	12 (12.750)	10	-	0.180	24.20	X	-
		20	-	0.250	33.38	X	-
		-	-	0.281	37.42	X	-
		30	-	0.330	43.77	X	-
		-	Std	0.375	49.56	X	X
		40	-	0.406	53.53	X	X
		-	EH	0.500	65.42	X	X
		60	-	0.562	73.16	-	X
		80	-	0.688	88.51	-	X
	100	-	0.844	107.20	-	X	
	120	-	1.000	125.50	-	X	
	140	-	1.125	139.70	-	X	
	160	-	1.312	160.30	-	X	

If you do not see a size listed, please ask

PIPE STOCK

SINGLE AND DOUBLE RANDOM LENGTHS

Size Nominal and (OD) Inches	Schedule	Class	Wall Thickness	Weight Per Ft. Plain End	API/ A53/ ERW	A53/API/ A106/ SMLS
14 (14.000)	10	-	0.250	36.71	X	-
	20	-	0.312	45.68	X	-
	-	Std	0.375	54.57	X	X
	40	-	0.438	63.37	X	X
	-	EH	0.500	72.09	X	X
	60	-	0.594	84.91	-	X
	80	-	0.750	106.10	-	X
	100	-	0.937	130.70	-	X
	120	-	1.093	150.70	-	X
	140	-	1.250	170.20	-	X
	160	-	1.406	189.10	-	X
	-	-	2.000	256.32	-	X
	16 (16.000)	10	-	0.250	42.05	X
20		-	0.312	52.36	X	-
30		-	0.375	62.58	X	X
40		-	0.500	82.77	X	X
60		-	0.656	107.50	-	X
80		-	0.844	136.50	-	X
100		-	1.031	164.80	-	X
120		-	1.218	192.30	-	X
140		-	1.437	223.50	-	X
160		-	1.593	245.10	-	X
18 (18.000)		10	-	0.250	47.39	X
	20	-	0.312	59.03	X	-
	-	Std	0.375	70.59	X	X
	30	-	0.438	82.06	-	X
	-	EH	0.500	93.45	-	X
	40	-	0.562	104.80	-	X
	60	-	0.750	138.20	-	X
	80	-	0.938	170.80	-	X
	100	-	1.156	208.00	-	X
	120	-	1.375	244.10	-	X
	140	-	1.562	274.20	-	X
160	-	1.781	308.50	-	X	

If you do not see a size listed, please ask

PIPE STOCK

SINGLE RANDOM LENGTHS

Size Nominal and (OD) Inches	Schedule	Class	Wall Thickness	Weight Per Ft. Plain End	API/ A53/ ERW	DSAW AP15L	A53/API/ A106/ SMLS	
20 (20.000)	10	-	0.250	52.73	X	-	-	
	-	-	0.312	65.71	X	-	-	
	20	-	0.375	78.60	X	-	X	
	30	-	0.500	104.10	-	-	X	
	40	-	0.593	122.90	-	-	X	
	60	-	0.812	166.40	-	-	X	
	80	-	1.031	208.90	-	-	X	
	100	-	1.280	256.10	-	-	X	
	120	-	1.500	196.40	-	-	X	
	140	-	1.750	341.10	-	-	X	
	160	-	1.968	379.00	-	-	X	
	24 (24.000)	10	-	0.250	63.41	X	X	-
		-	-	0.312	78.93	X	X	X
-		Std	0.375	94.62	X	X	X	
-		EH	0.500	125.50	X	X	X	
40		-	0.688	171.20	X	-	X	
60		-	0.968	238.10	-	-	X	
30 (30.000)		-	-	0.312	79.43	-	X	-
	-	-	0.375	118.58	-	X	-	
	-	-	0.500	157.53	-	X	-	
	-	-	0.625	196.08	-	X	-	
	36 (36.000)	-	-	0.375	142.68	-	X	-
-		-	0.500	189.57	-	X	-	

If you do not see a size listed, please ask

COMPARISON OF PIPE SIZES WITH NEAREST MECHANICAL TUBE SIZES

STANDARD SIZES						
Nominal Pipe Size	Actual Pipe Size in Decimal Inches		Nearest Fractional Sizes Available in Cold Drawn Seamless Tubing			
	OD	WALL	OD	DECIMALS	WALL	DEC
1/8	0.405	0.068	13/32	0.406	16	0.065
1/4	0.540	0.088	17/32	0.531	14	0.083
3/8	0.675	0.091	21/32	0.656	13	0.095
1/2	0.840	0.109	27/32	0.844	12	0.109
3/4	1.050	0.113	1-1/16	1.0625	12	0.109
1	1.315	0.133	1-5/16	1.313	10	0.134
1-1/4	1.660	0.140	1-5/8	1.625	5/32	0.156
1-1/2	1.900	0.145	1-7/8	1.875	5/32	0.156
2	2.375	0.154	2-3/8	2.375	5/32	0.156
2-1/2	2.875	0.203	2-7/8	2.875	7/32	0.219
3	3.500	0.216	3-1/2	3.500	7/32	0.219
3-1/2	4.000	0.226	4	4.000	1/4	0.250
4	4.500	0.237	4-1/2	4.500	1/4	0.250
4-1/2	5.000	0.247	5	5.000	1/4	0.250
5	5.563	0.258	5-5/8	5.625	5/16	0.313
6	6.625	0.280	6-5/8	6.625	5/16	0.313
7	7.625	0.301	7-5/8	7.625	5/16	0.313
8	8.625	0.322	8-5/8	8.625	11/32	0.344
9	9.625	0.342	9-5/8	9.625	11/32	0.344
10	10.750	0.365	10-3/4	10.750	3/8	0.375
11	11.750	0.375	11-3/4	11.750	3/8	0.375
12	12.750	0.375	12-3/4	12.750	3/8	0.375
EXTRA HEAVY SIZES						
1/8	0.405	0.095	13/32	0.405	13	0.095
1/4	0.540	0.119	17/32	0.531	11	0.120
3/8	0.675	0.126	21/32	0.656	11	0.120
1/2	0.840	0.147	27/32	0.844	5/32	0.156
3/4	1.050	0.154	1-1/16	1.0625	5/32	0.156
1	1.315	0.179	1-5/16	1.313	3/16	0.187
1-1/4	1.660	0.191	1-5/8	1.625	3/16	0.187
1-1/2	1.900	0.200	1-7/8	1.875	7/32	0.219
2	2.375	0.218	2-3/8	2.375	7/32	0.219
2-1/2	2.875	0.276	2-7/8	2.875	9/32	0.281

COMPARISON OF PIPE SIZES WITH NEAREST MECHANICAL TUBE SIZES

EXTRA HEAVY SIZES - Continued						
Nominal Pipe Size	Actual Pipe Size in Decimal Inches		Nearest Fractional Sizes Available in Cold Drawn Seamless Tubing			
	OD	WALL	OD	DECIMALS	WALL	DEC
3	3.500	0.300	3-1/2	3.500	5/16	0.313
3-1/2	4.000	0.318	4	4.000	5/16	0.313
4	4.500	0.337	4-1/2	4.500	3/8	0.375
4-1/2	5.000	0.355	5	5.000	3/8	0.375
5	5.563	0.375	5-5/8	5.625	3/8	0.375
6	6.625	0.432	6-5/8	6.625	3/8	0.375
7	7.625	0.500	7-5/8	7.625	1/2	0.500
8	8.625	0.500	8-5/8	8.625	1/2	0.500
9	9.625	0.500	9-5/8	9.625	1/2	0.500
10	10.750	0.500	10-3/4	10.750	1/2	0.500
12	12.750	0.500	12-3/4	12.750	1/2	0.500
DOUBLE EXTRA HEAVY SIZES						
1/2	0.840	0.294	27/32	0.844	19/64	0.297
3/4	1.050	0.308	1-1/16	1.0625	5/16	0.313
1	1.315	0.358	1-5/16	1.313	23/64	0.359
1-1/4	1.660	0.382	1-5/8	1.625	25/64	0.391
1-1/2	1.900	0.400	1-7/8	1.875	13/32	0.406
2	2.375	0.436	2-3/8	2.375	7/16	0.438
2-1/2	2.875	0.552	2-7/8	2.875	9/16	0.563
3	3.500	0.600	3-1/2	3.500	19/32	0.594
3-1/2	4.000	0.636	4	4.000	5/8	0.625
4	4.500	0.674	4-1/2	4.500	11/16	0.688
4-1/2	5.000	0.710	5	5.000	23/32	0.719
5	5.563	0.750	5-5/8	5.625	3/4	0.750
6	6.625	0.864	6-5/8	6.625	7/8	0.875
7	7.625	0.875	7-5/8	7.625	7/8	0.875
8	8.625	0.875	8-5/8	8.625	7/8	0.875

ABRASION RESISTANT PIPING SYSTEMS

ULTRA 600

Low alloy steel pipe is induction hardened to provide excellent abrasion resistance for most slurry and pneumatic applications.

ULTRA 500

Low alloy steel pipe is quenched and tempered to provide excellent abrasion resistance yet is significantly more ductile than other hardened materials.

PRODUCT COMPARISON TABLE

	ULTRA 600	ULTRA 500
Hardness Range:	55-65 HRc	50-60 HRc
Diameter Range:	2.5"-24" NPS	2.5"-24" NPS
Wall Thickness:	Standard & Extra Heavy	Standard & Extra Heavy
Maximum Length:	50 Feet	50 Feet
Particle Impingement:	0-15 Degrees	0-60 Degrees
Impact Resistance:	Marginal	Good
Ductility:	Low	Good
	ULTRA WELD 600	ULTRA WELD 450
Hardness Range:	60-62 HRc	46-50 HRc
Diameter Range:	4" Minimum	4" Minimum
Wall Thickness:	No Restrictions	No Restrictions
Maximum Length:	20 Feet	20 Feet
Particle Impingement:	0-15 Degrees	0-60 Degrees
Impact Resistance:	Low	Good
Ductility:	None	Good
Maximum Build-Up:	3/8" (2 Weld Passes)	3/8" Plus (2 Weld Passes)

PIPE SPECIFICATIONS

SCOPE

A53
1/8" - 26"

Covers BLACK and hot-dipped GALVANIZED WELDED and SEAMLESS nominal size and wall pipe suitable for welding and for coiling, bending, flanging, and other forming operations.

STD, XS AND XXS ANSI
B36.10

Continuous weld pipe is not intended for flanging (using pipe wall to form flange).

Other sizes and dimensions may be furnished

Seamless and electric-resistance weld pipe may be specified in grades A or B.

Order should specify when pipe is required for close coiling.

A106
1/8" - 26"

Covers SEAMLESS nominal size and wall pipe for high temperature service, suitable for bending, flanging, and similar forming operations.

STD, XS and XXS ANSI
B36.10

Heat treated cold drawn pipe may be furnished to this specification. Optional supplementary requirements may be specified when pipe 8 inch and larger is intended for use where a superior grade is required.

Other sizes and dimensions may be furnished

API 5L
1/8" - 48"

Covers SEAMLESS and WELDED LINE PIPE in nominal sizes and walls through 12 inch or by OUTSIDE DIAMETERS and nominal walls in all sizes. Dimensions may be specified in English or metric units. Pipe to this specification is suitable for use in conveying gas, water, and oil in the oil and natural gas industries.

STD, XS and XXS

Other sizes and dimensions may be furnished

PIPE SPECIFICATIONS - Continued

HYDROSTATIC TESTING

A53 1/8" - 26"	Prescribes hydrostatic test pressures for continuous weld pipe and for seamless and electric resistance weld pipe.
STD, XS and XXS ANSI B36.10	Provision is made for test pressures not to exceed 2500 psi for pipe 3 inch and under or 2800 psi for pipe over 3 inch.
Other sizes and dimensions may be furnished	Each length of pipe must be tested at the producing mill. Welded pipe 2 inch and larger is jarred near one end while under test pressure.
A106 1/8" - 26"	Hydrostatic test pressures are calculated using the Barlow formula. Each pipe shall be tested to 60 percent of specified minimum yield strength, but not exceeding 2500 psi for 3 inch nominal size or smaller, 2800 psi for sizes over 3 inch.
STD, XS and XXS ANSI B36.10	
Other sizes and dimensions may be furnished	
API 5L 1/8" - 48"	Lists STANDARD and higher ALTERNATIVE hydrostatic mill inspection test pressures. Each length of pipe must be tested. Welded pipe is struck while under pressure near the weld at both ends of the pipe.
STD, XS and XXS	
Other sizes and dimensions may be furnished	

PERMISSIBLE VARIATIONS IN WEIGHTS PER FOOT

For XS and lighter wall thicknesses

Pipe shall not vary more than plus or minus 5 percent from weights shown in tables and included in ANSI B36.10.

For walls heavier than XS

Pipe shall not vary more than plus or minus 10 percent from weights shown in tables and included in ANSI B36.10.

Sizes 4 inch and smaller weighted in customary mill lifts. On larger sizes, weight tolerance is applicable to individual lengths.

For schedule 120 and lighter

Pipe shall not vary more than 6.5 percent over and 3.5 percent under weights shown in ANSI B36.10.

For pipe heavier than schedule 120

Pipe shall not vary more than 10 percent over and 3.5 percent under weights shown in ANSI B36.10.

Sizes 4 inch and smaller are weighed in convenient lots. Pipe in sizes larger than 4 inch is weighed separately.

For STD, XS, XXS and other REGULAR weights

Pipe shall not vary more than 10 percent over and 3.5 percent under weights shown in tables.

For SPECIAL weights

Pipe shall not vary more than 10 percent over and 5 percent under weights shown in tables.

In carload (40,000 lbs) lots, weight of total pipe in car shall be not less than 1.75 percent under the calculated weight of total footage in the car.

Sizes 4-1/2 inch OD and smaller may be weighed in convenient lots.

Sizes 5-9/16 inch OD and larger shall be weighed individually.

CHEMICAL REQUIREMENTS

A53		COMPOSITION, MAX. PERCENT			
1/8" - 26"		C	Mn	P	S
STD, XS and XXS	Types S and E				
ANSI B36.10	Grade A	0.25	0.95	0.05	0.06
	Grade B	0.30	1.20	0.05	0.06
	Type F	-	-	0.06	0.045
Other sizes and dimensions may be furnished					

A106		COMPOSITION, PERCENT				
1/8" - 26"		C max	Mn	P max	S max	Si min
STD, XS and XXS						
ANSI B36.10	Grade A	0.25	0.27/0.93	0.035	0.035	0.10
	Grade B	0.30	0.29/1.06	0.035	0.035	0.10
	Grade C	0.35	0.29/1.06	0.035	0.035	0.10
Other sizes and dimensions may be furnished						

API 5L		LADLE ANALYSES, PERCENT					
1/8" - 48"	C max	Mn		P	S		
		min	max	min	max	max	
STD, XS and XXS							
	Grade A25, Cl.II	0.21	0.30	0.60	-	0.045	0.06
	Grade A25, Cl.II	0.21	0.30	0.60	0.045	0.080	0.06
Grade A,							
	Seamless	0.22	-	0.90	-	0.04	0.05
	Welded	0.21	-	0.90	-	0.04	0.05
Grade B,							
	Seamless	0.27	-	1.15	-	0.04	0.05
	Welded	0.26	-	1.15	-	0.04	0.05
Grade x 42							
	Seamless	0.29	-	1.25	-	0.04	0.05
	Welded	0.28	-	1.25	-	0.04	0.05

TENSILE REQUIREMENTS

Tensile Strength min, psi		Yield Point min, psi
Types S and E		
Grade A	48,000	30,000
Grade B	60,000	35,000
Types F	45,000	25,000

Table lists minimum elongation values calculated by the equation:
 $e=625,000 A^{0.2} / U^{0.9}$

Tensile Strength min, psi		Yield Point min, psi
Grade A	48,000	30,000
Grade B	60,000	35,000
Grade C	70,000	40,000

Table lists minimum elongation values.

Tensile Strength min, psi		Yield Point min, psi
Grade A25	45,000	25,000
Grade A	48,000	30,000
Grade B	60,000	35,000
Grade x 42	60,000	42,000

Table lists minimum elongation values calculated by the equation:
 $e=625,000 A^{0.2} / U^{0.9}$

PIPE SPECIFICATIONS GENERAL INFORMATION

Threads and Couplings

All pipe threads are NPT threads in accordance with the requirements of ANSI B2.1 with a taper of 3/4 inch per foot.

One coupling is applied handling tight to each length of threaded pipe, unless otherwise specified.

ASTM pipe - Coupling on 2 inch and smaller standard weight pipe are straight-tapped and without recess. Couplings on 2-1/2 inch through 6 inch standard weight pipe are taper-tapped and without recess. Couplings on 8 inch and larger standard weight pipe and on all sizes of extra strong and heavier pipe are taper-tapped and recessed.

API pipe - Couplings on all sizes and weights are taper-tapped and recessed

Plain Ends

ASTM A53 pipe of STD, XS or in wall thicknesses less than 0.500 inch, other than XXS, shall be beveled. Wall thicknesses over 0.500 inch and all XXS pipe shall be cut square. Angle of bevel is not specified but normally a 30 degree bevel is furnished.

ASTM A106 does not stipulate end finish but normal practice is similar to A53.

API 5L plain end pipe (other than XXS) in sizes 2-3/8 inch OD and larger shall be furnished with ends beveled to an angle of 30 degree (plus 5 degree, minus 0 degree). XXS pipe 2-3/8 inch OD and larger shall be furnished with ends cut square.

STANDARDS AND SPECIFICATIONS

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI B2.1	Basic standard for steel pipe threads
ANSI B36.10	Basic dimensional standard for all steel pipe
ANSI B31	Code for design and construction of pressure piping systems, consisting of the following sections:
ANSI B31.1	Power Piping Systems
ANSI B31.2	Industrial Gas and Air Piping Systems
ANSI B31.3	Petroleum Refinery Piping
ANSI B31.4	Liquid Petroleum Transportation Piping
ANSI B31.5	Refrigeration Piping Systems
ANSI B31.6	Chemical Process Piping
ANSI B31.7	Nuclear Power Piping
ANSI B31.8	Gas Transmission and Distribution Piping

AMERICAN PETROLEUM INSTITUTE (API)

API 5L	API Specification for Line Pipe
API 5LX	API Specification for High-Test Line Pipe

AMERICAN SOCIETY for TESTING and MATERIALS (ASTM)

ASTM A53	Welded and Seamless Steel Pipe
ASTM A106	Seamless Carbon Steel Pipe for High Temperature Service
ASTM A135	Electric-Resistance-Welded Pipe, 30 inch and under, intended for conveying liquid, gas, or vapor
ASTM A139	Electric-Fusion(Arc)-Welded Straight-Seam or Spiral-Seam Pipe, 4 inch and over, wall thicknesses up to 5/8 inch inclusive. Intended for conveying liquid, gas or vapor.
ASTM A252	Welded and Seamless Steel Pipe Piles
ASTM A333	Seamless and Welded Steel Pipe for Low Temperature Service
ASTM A523	Plain End Seamless and Electric Welded Steel Pipe for High Pressure Pipe-Type Cable Systems
ASTM A589	Seamless and Welded Carbon Steel Water Well Pipe

AMERICAN WATER WORKS ASSOCIATION (AWWA)

AWWA C202	AWWA Standard for Mill-Type Steel Water Pipe
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THE FEDERAL GOVERNMENT (WWP)

WWP-404	Similar to ASTM A53
WWP-406	Similar to ASTM A53F

OTHER PIPE SPECIFICATIONS

API 5LX	Covers high-test line pipe with greater tensile and bursting strengths than pipe made to API 5L. Seamless or welded, sizes 6-5/8 inch OD - 36 inch, Grades X- 42, X-46, and X-52. Numerical designation in grade indicates minimum yield, thus X-42=42,000 lbs. min. yield steel, etc. OD, weight and wall tolerances, tensile and flattening tests and marking requirements are same as outlined in API 5L.	ASTM A252	Covers three grades (physical properties) of welded and seamless black pipe piles of cylindrical shape either as permanent load-carrying members or shells to form cast-in-place concrete piles. Not intended to apply to pipe for general structural purposes. Sizes 8-5/8 inch OD through 24 inch OD.
ASTM A134	Covers electric-fusion (arc)-welded straight seam or spiral seam steel plate pipe 16 inch and over (ID or OD as specified by customer), with walls up to 3/4 inch inclusive. Pipe intended for conveying liquid, gas, or vapor.	ASTM A312	Covers ten grades (designated as TP 304, TP 304L, TP 316, TP 347, etc.) of seamless and welded stainless steel pipe intended for high-temperature and general corrosive service.
ASTM A135	Covers two grades (A and B) of electric-resistance-welded pipe, 30 inch and under, intended for conveying liquid, gas, or vapor. Only grade A is adapted for flanging and bending. Purpose for which pipe is intended should be stated in the order.	ASTM A333	Covers seamless and welded carbon and alloy steel pipe for low-temperature service. (Special product note - Yoloy pipe can be certified to meet the requirements of A333, Grade 0, for service down to minus 50 degrees F)
ASTM A139	Covers two grades (A and B) of electric-fusion (arc)-welded straight-seam or spiral seam pipe, 4 inch and over, wall thicknesses up to 5/8 inch inclusive. Pipe intended for conveying liquid, gas, or vapor.	ASTM A335	Covers fourteen grades, designated as P-11 (1-1/4 percent chrome, 1/2 percent moly) P-12 (1 percent chrome, 1/2 percent moly) P-5 (4-6 percent chrome, 1/2 percent moly) etc., of intermediate alloy seamless steel pipe intended for high- temperature service and suitable for bending, flanging (vanstoning), and similar forming operations.
ASTM A155	Covers electric-fusion-welded pipe for high-temperature, high-pressure service. Generally in sizes 16 inch OD and larger. Pipe is suitable for bending, flanging (vanstoning), and similar forming operations. Several grades of carbon steel and alloy steel plates are covered.		