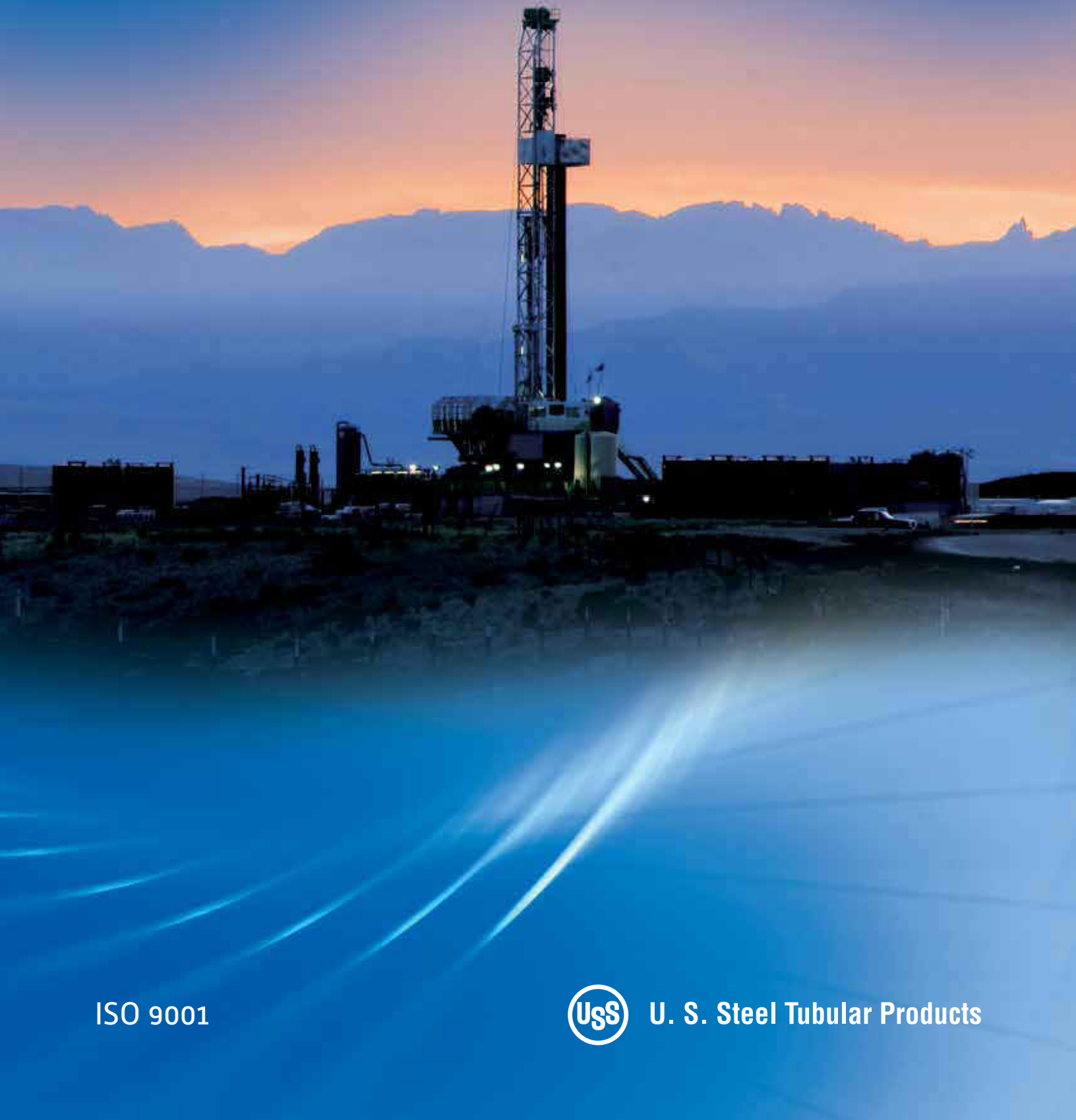


OIL COUNTRY TUBULAR GOODS



ISO 9001



U. S. Steel Tubular Products

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Disclaimer

All material contained in this publication is for general information only. This material should not, therefore, be used or relied upon for any specific application without independent competent professional examination and verification of its accuracy, suitability and applicability. Anyone making use of the material does so at his own risk and assumes any and all liability resulting from such use. U. S. Steel Tubular Products disclaims any and all expressed or implied warranties of merchantability and/or fitness for any general or particular purpose.

GENERAL INFORMATION

Tubular products are one of U. S. Steel's oldest business lines. When the corporation was formed in 1901 it absorbed the National Tube Company, a conglomerate created just two years earlier by the merger of 13 small companies. The acquisition immediately made U. S. Steel a major player in tubular steel products.

Today, U. S. Steel manufactures more than 1,500 different types of steel, many of them formulated in close consultation with our customers. Our annual tubular product capacity is 2.8 million net tons.

Oil Country Tubular Goods (OCTG) manufactured by U. S. Steel Tubular Products are widely used across the global oil and gas industry. An advanced line of premium and semi-premium connections has been specially designed for today's challenging oil and gas environments, including drilling conditions encountered in shale plays and other extended reach drilling applications.

GENERAL INFORMATION

STEELMAKING

U. S. Steel is an integrated steelmaker, which means we produce most of our own steel, starting with mine ore. We manufacture and finish steel products, including tubulars and connections, at our own facilities. Our meticulous production planning methods give us full control over the composition and quality of our products – from the raw materials we choose, to the complex metallurgical and mechanical processes we use to form and finish our steel. Our facilities can produce a wide range of high-quality, high-strength, low-residual, formable steels with unique properties that are very difficult to produce by any other method.

The steels of today are far more sophisticated than metals of earlier eras. Controlled additions of alloys, plus an array of field- and lab-tested heat and chemical treatments, create steels precisely crafted to suit every application and environment. U. S. Steel's innovative software applications calculate, measure, test, record and analyze most every aspect of the modern steelmaking process.

At U. S. Steel, we use cutting-edge technology to manage every aspect of production. Real-time communication between the control room and

machine operators allows for precise regulation of each step of the process, from charging furnaces with raw ingredients to controlling temperatures, timing, alloying, flows, testing and transport.

U. S. Steel's commitment to the oil and gas industry is even stronger today than it was when we went into the business more than a century ago. Upgrades to our facilities and investments in new technology give us the latest tools to provide our customers with the finest products we can supply.

CERTIFICATIONS

U. S. Steel Tubular Products facilities meet the certification standards of the leading organizations that interface with our industry and our customers. U. S. Steel facilities are API Q1 certified and/or ISO 9001 certified.

Specific certifications include:

- ISO 9001 (Quality Management Verification)
- ISO 17025 (Standards for Testing and Calibration Laboratories)
- API 5CT (Manufacturer of Casing and Tubing)
- PED (Compliance with Pressure Control Directive)



Control room at Tubular Operations in Fairfield, Alabama

TESTING

U. S. Steel's commitment to customer satisfaction includes thorough testing and inspection of all our products. Our certified and highly skilled technicians employ a broad array of standard and advanced testing technology to monitor our tubular steel every step of the way, from the laboratory to the mill, to your application.

All products are subject to destructive and non-destructive testing methods to verify that they meet both industry standards and customer specifications. Detailed reports and comprehensive data compiled from test results help us improve production practices and assist in further research and analysis.

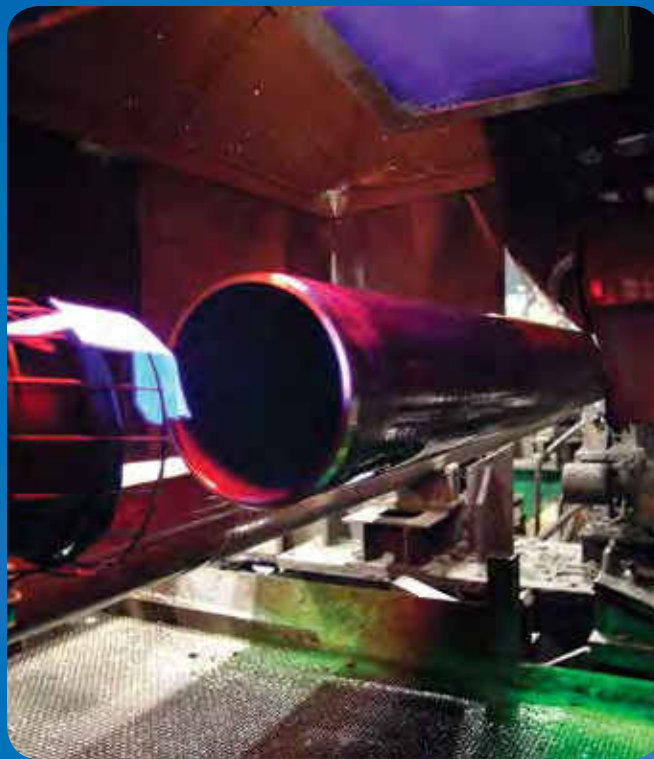
Inspection and test procedures include:

- Visual
- X-ray
- Magnetic Particle
- Electromagnetic
- Eddy Current
- Ultrasonic
- Tensile Strength and Hardness
- Impact
- Collapse
- Corrosion

RESEARCH & DEVELOPMENT

Today's sophisticated steelmaking processes and cutting-edge tubular products reflect more than a century of research and innovation. Our world-class Research & Development Center in Munhall, Pennsylvania brings together leading experts from across the steel industry. As a technical team, they apply advanced technology in the development of enhanced products.

An interdisciplinary approach gives our researchers the multiple perspectives and deep expertise needed to understand the real-world demands that our products must meet. Thanks to our researchers, U. S. Steel Tubular Products employs efficient, reliable and environmentally sound practices in all facets of its business.



Special End Area (SEA) inspection at Fairfield Tubular Operations in Fairfield, Alabama

FACILITIES

Fairfield Tubular Operations

Location	Fairfield, Alabama
Method of Manufacture	Seamless
OD Range	4-1/2" to 9-7/8"
Walls	0.205" to 1.200"
Lengths	Range 3 Casing
Fairfield Tubular Grades	H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, C90, R95, T95, C110, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP
	<i>Pipe manufactured to these grades will be marked with the API monogram.</i>
Proprietary Grades	USS GT 80S, USS C90, USS C95, USS C100, USS RYS110, USS C110, USS 140, USS V150

Lone Star Tubular Operations

Location	Lone Star, Texas
Method of Manufacture	High Frequency Electric Resistance Weld (ERW)
OD Range	No. 2 Mill: 2-3/8" to 7", No. 1 Mill: 7" to 16"
Walls	No. 2 Mill: 0.154" to 0.531", No. 1 Mill: 0.250" to 0.562"
Lengths	Range 3 Casing, Range 2 Tubing
Texas Tubular Grades	H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, R95, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP
	<i>Pipe manufactured to these grades will be marked with the API monogram.</i>
Proprietary Grades	USS HCK55, USS RYH110

Lorain Tubular Operations

Location	Lorain, Ohio
Method of Manufacture	Seamless
OD Range	No. 4 Mill: 1.900" to 4-1/2", No. 3 Mill: 10 1/8" to 26" No. 6 Mill: 2-3/8" to 7-5/8"
Walls	No. 4 Mill: 0.140" to 0.674", No. 3 Mill: 0.365" to 1.250" No. 6 Mill: 0.205" to 0.812"
Lengths	Range 3 Casing, Range 2 Tubing
Lorain Tubular Grades	H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, C90, R95, T95, C110, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP
	<i>Pipe manufactured to these grades will be marked with the API monogram.</i>
Proprietary Grades	USS GT 80S, USS C90, USS C95, USS C100, USS RYS110, USS C110, USS 140, USS V150

Offshore Operations

Location Houston, Texas

In addition to manufacturing high-quality products and connections, U. S. Steel Oilwell Services provides finishing and processing services at two Houston locations. At our Offshore Operations facility, we offer customers a range of services: from pipe storage, to API and premium threading, to inspections of OCTG pipe with outside diameters ranging from 3-1/2" to 20".

Inspection services include full body ultrasonic, weld line, electromagnetic, visual, dry or wet special-end-area and dye penetrate. We also offer nearly a dozen ancillary threading and inspection services, including computer float equipment bucking, as well as export offshore packaging and pipe maintenance.

Wheeling Machine Products

Location Pine Bluff, Arkansas and Hughes Springs, Texas

Wheeling Machine Products manufactures couplings and special couplings for premium applications related to oil country tubular goods.

Tubular Processing Operations

Location Houston, Texas

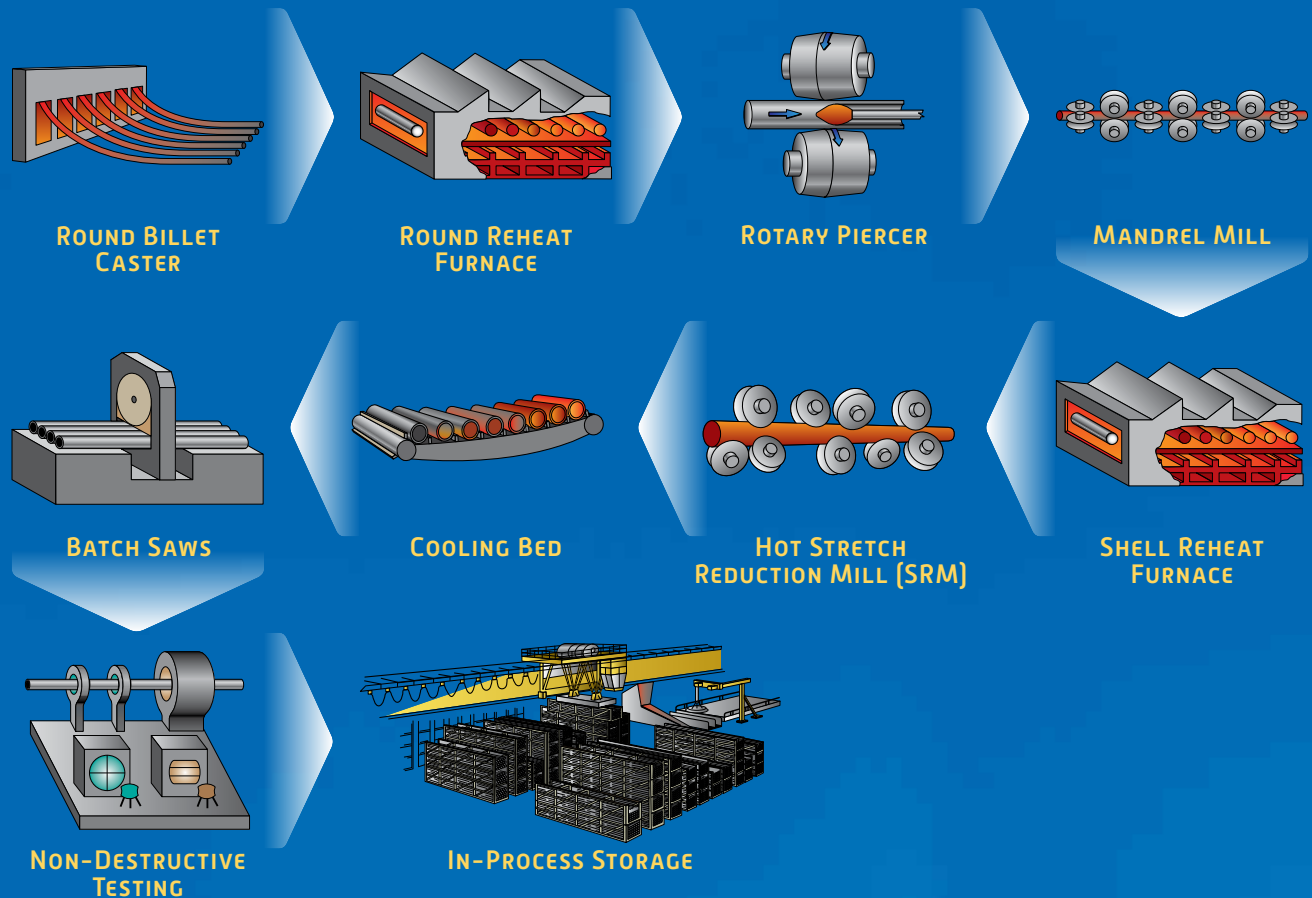
U. S. Steel Tubular Products' Tubular Processing Services Division provides customers with services including upsetting, quenching and tempering, full body normalizing, non-destructive testing, hydrostatic testing, and both API and premium thread lines.

Patriot Premium Threading Services

Location Midland, Texas

Patriot Premium Threading Services (PPTS) is a joint venture between U. S. Steel Oilwell Services and Butch Gilliam Enterprises. The state-of-the-art Greenfield facility is American-owned and designed to provide superior quality and customer service to the energy tubular market across the Permian Basin. The facility's threading capacity is 2-3/8" to 11-3/4".

FAIRFIELD, ALABAMA - 4-1/2" TO 9-7/8" OD SEAMLESS MANUFACTURING PROCESS



Lengths:
Fairfield Tubular Grades: Range 3 Casing
H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, C90, R95, T95, C110, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP

Pipe manufactured to these grades will be marked with the API monogram.

Proprietary Grades: USS GT 80S, USS C90, USS C95, USS C100, USS RYS110, USS C110, USS 140, USS V150

Fairfield Tubular Operations can produce approximately 750,000 net tons of seamless tubular products every year. The process begins with solid steel rounds, or billets, cut to a specified length and sent through a walking-beam reheat furnace, where temperatures reach nearly 2,300°F.

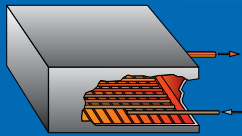
The hot rounds are turned into a tube shell in mere seconds in the rotary piercing mill as the preheated rounds are cross-rolled between two barrel-shaped rolls at a high speed. The seamless lengths enter Fairfield's seven-stand mandrel mill, where they are stretched and rolled into a controlled dimension shell. The reduction process

is carefully monitored using a state-of-the-art hot-wall measuring system.

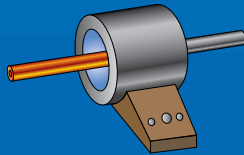
The shells are then reheated for final forming in a 24-stand Hot Stretch Reduction Mill (SRM), where ODs are formed to customers' exacting specifications. Wall thickness is again verified using a state-of-the-art hot measuring system.

After being rotated and advanced on the walking-beam cooling bed, the tubes are batch cut and transferred to an in-process storage area, where they are handled by computer-controlled gantry cranes. Further processing, such as threading operations and quench and temper, is performed to meet customers' specifications.

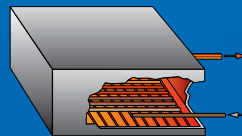
HEAT TREATING



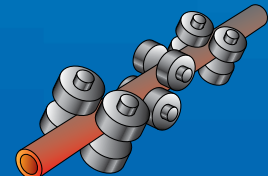
AUSTENITIZING
FURNACE



OD QUENCHING UNIT



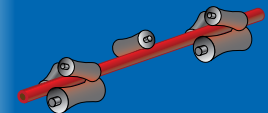
TEMPERING FURNACE



SIZING MILL



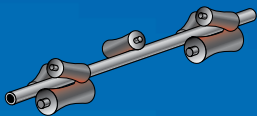
COOLING BED



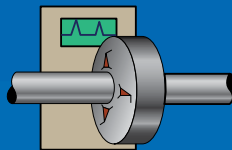
HOT STRAIGHTENER

FACILITIES

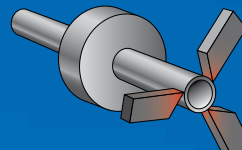
FINISHING



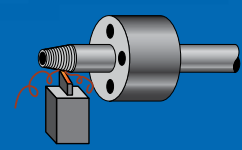
STRAIGHTENER



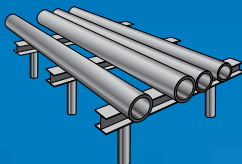
NON-DESTRUCTIVE
TESTING



CUT-OFF



THREADING



FINAL INSPECTION



HYDROSTATIC
TESTER



DRIFT



COUPLING MAKEUP
UNIT

All pipe is transferred to a storage area where gantry cranes are used to organize and move stackable containers of tubing. From here, pipe can be delivered to one of three primary workstations: heat treatment, finishing or special pipe processing.

Pipe might undergo quenching and tempering to alter its microstructure to improve strength or other properties. Quenching and tempering controls hardness, reduces brittleness and brings the steel to the desired yield and tensile strengths.

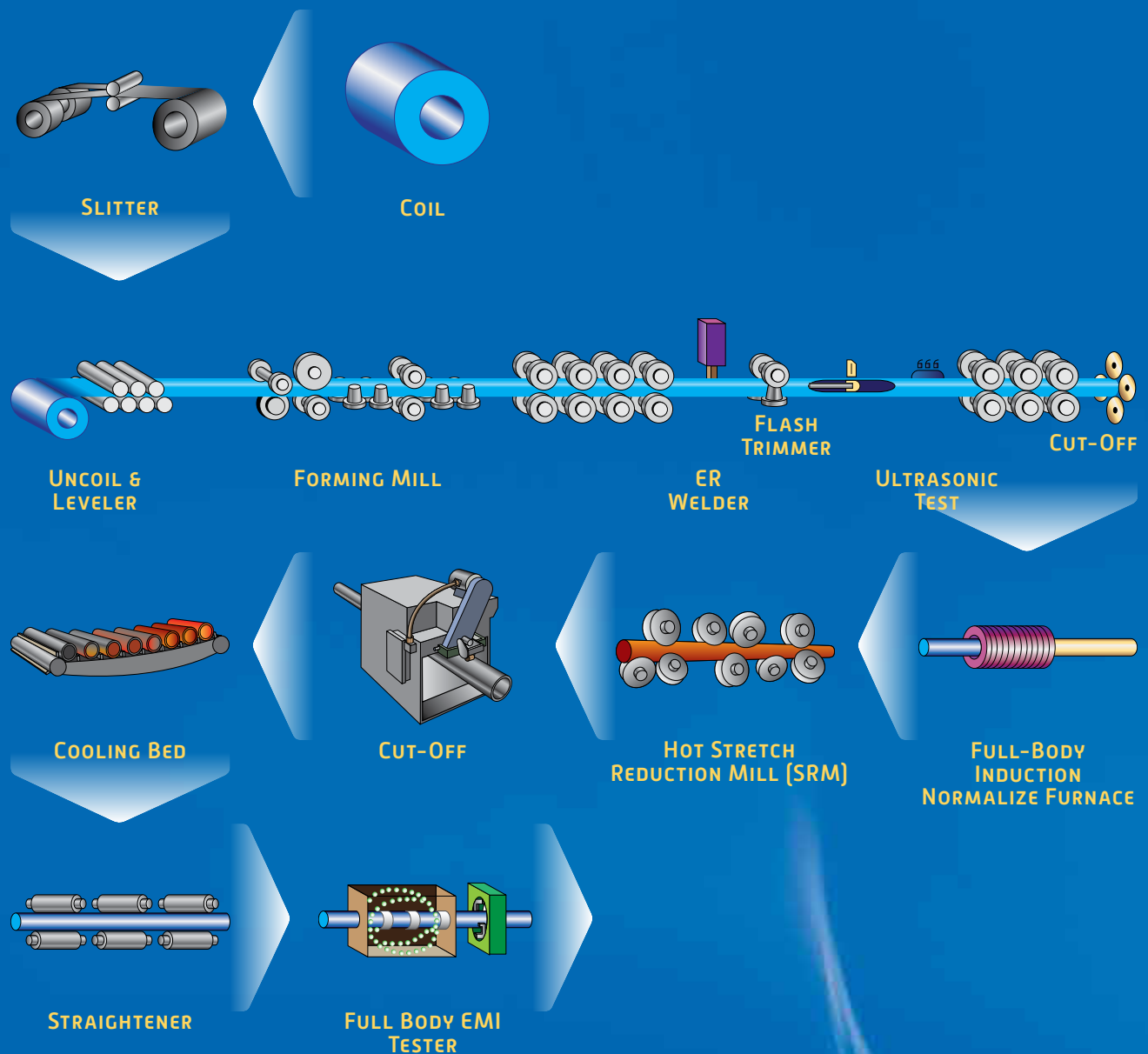
Seamless pipe that has not been quenched and tempered initially passes through a straightener

and then a Non-Destructive Testing (NDT) unit. Quench and temper pipe goes directly to the NDT area.

Electromagnetic Inspection (EMI) detects longitudinal and transverse flaws as the tubing moves through a set of coils. Ultrasonic testing is used for wall thickness, and eddy current grade verification is performed on all products. All pipe is hydrostatically tested.

If threading is required, the pipe is routed to one of six high-speed threaders. Following further inspection, the finished pipe is weighed, measured, stenciled with a unique ID, coated and loaded onto rail cars for shipment to customers.

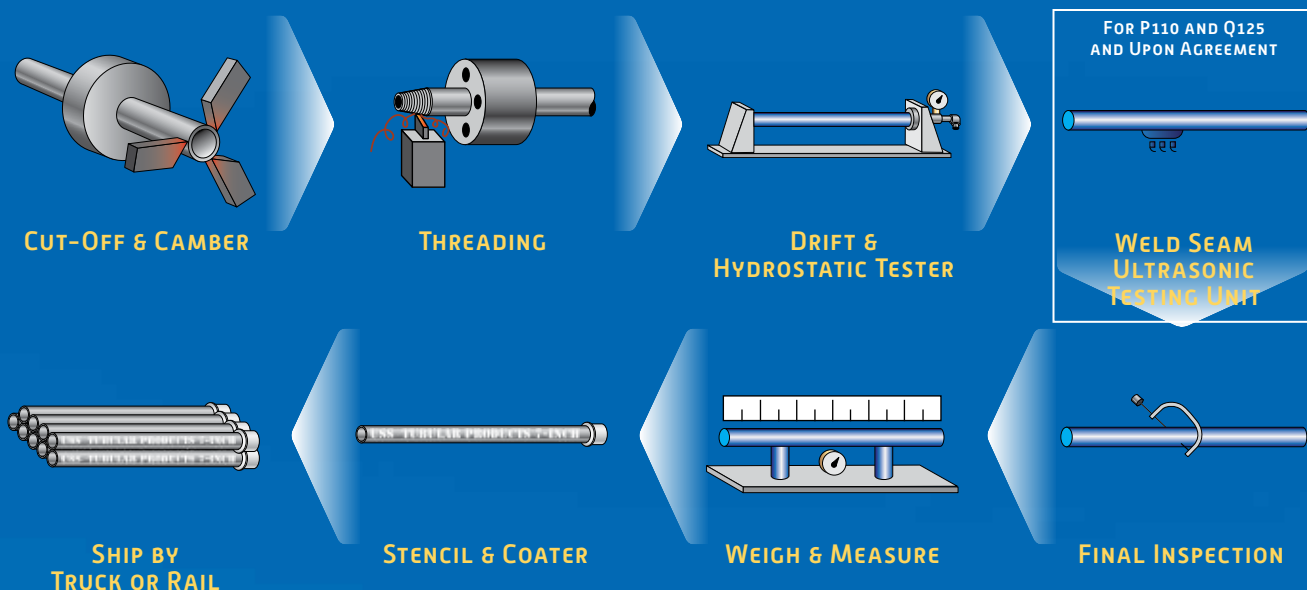
LONE STAR, TEXAS – MILL NO. 2 – 2-3/8" TO 7" OD ELECTRIC RESISTANCE WELD MANUFACTURING PROCESS



Lengths: Range 3 Casing, Range 2 Tubing
 Texas Tubular Grades: H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP
Pipe manufactured to these grades will be marked with the API monogram.

Proprietary Grades: USS HCK55, USS RYH110. Others available through inquiry.

STANDARD PRODUCT FINISHING FOR: 2-3/8" - 7"



FACILITIES

U. S. Steel's Lone Star Tubular Operations Mill No. 2 manufactures and distributes high-quality ERW and specialty tubular products primarily for the oil and gas industries.

Steel arrives at the facility in coils slit to precise width. The strip steel is uncoiled and leveled, then passes through a series of forming rolls, which transform the strip from flat steel to round pipe sections. The edges of the strip are contoured for seam welding. The weld is created by heat obtained from the pipe's resistance to the flow of electric current of the circuit of which it is part, and by applied pressure. No extraneous metal is used in the welding process.

After the flash (metal extruded by the weld process) is removed from the pipe's inside and outside surfaces, the pipe is cut to length by a flying rotary cutoff. Weld integrity is checked by in-line ultrasonic test equipment.

The pipe then passes through a battery of induction heating furnaces where it is heated to temperatures above 1,650°F, sized through the Hot Stretch Reduction Mill (SRM), cut to ordered

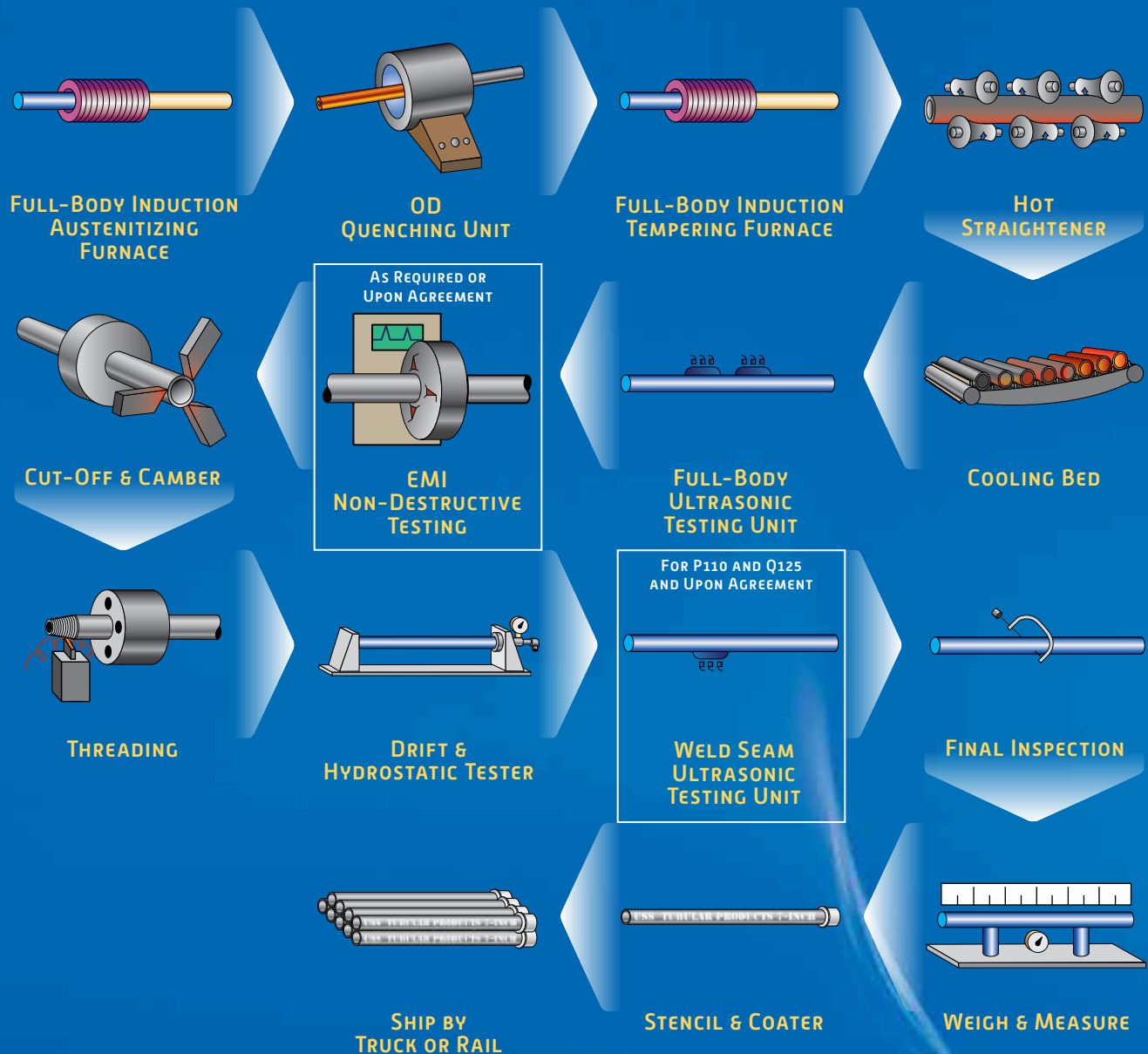
length and air cooled. This full body normalizing operation produces uniform grain structure throughout the entire pipe wall.

After cooling, the pipe is straightened, visually inspected, stenciled with the appropriate identity and queued for final finishing or quench and temper. For non quenched and tempered products, laboratory tests confirm full compliance to specifications and other mechanical property requirements before the pipe is beveled, eddy current inspected and hydrostatically tested. Full-body electromagnetic and ultrasonic testing is available for pipe sizes 4" and larger. Multiple certifications are available.

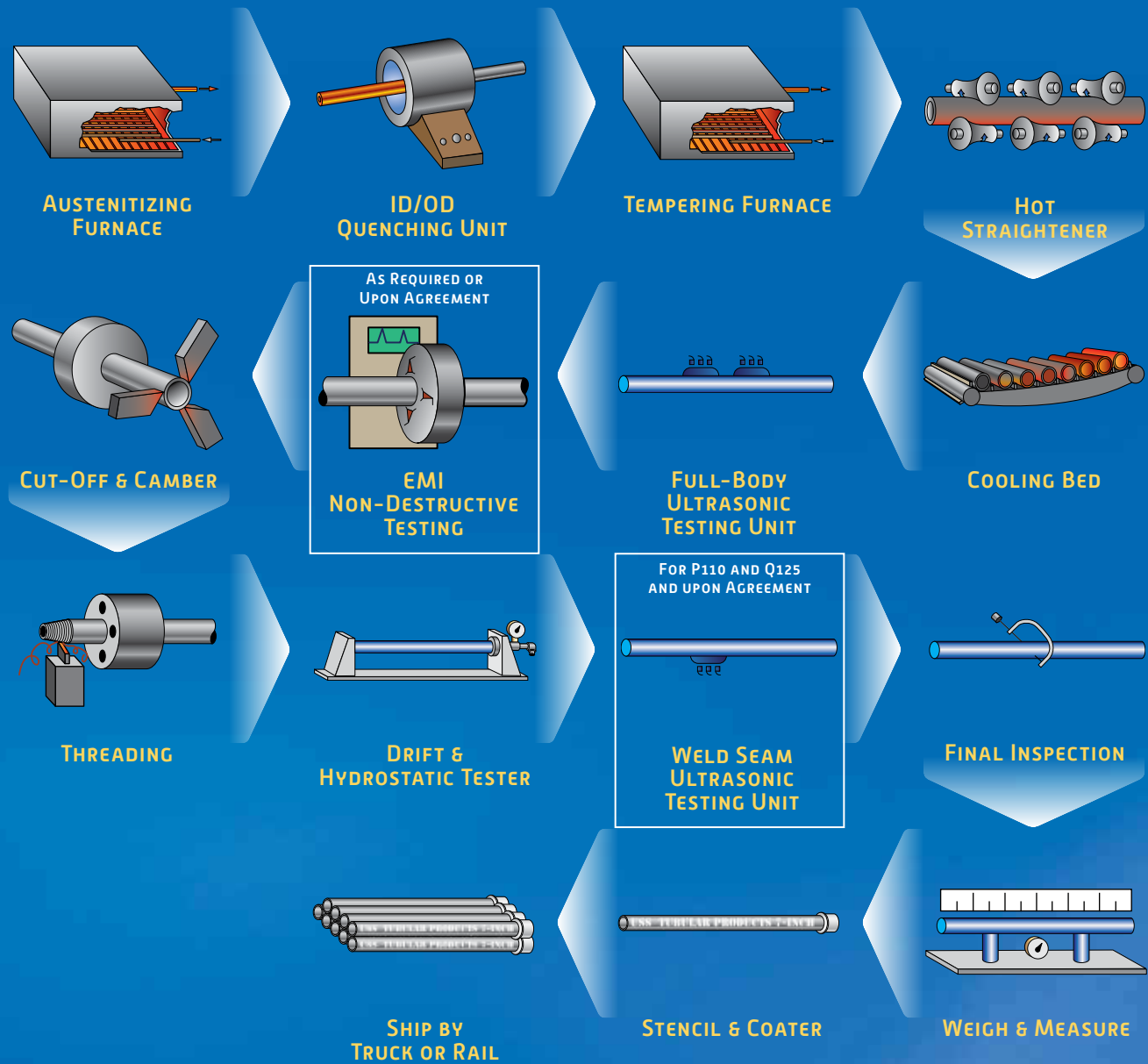
The Lone Star location has three facilities for product finishing.

LONE STAR, TEXAS - MILL NO. 2 - 2-3/8" TO 7" OD ELECTRIC RESISTANCE WELD MANUFACTURING PROCESS

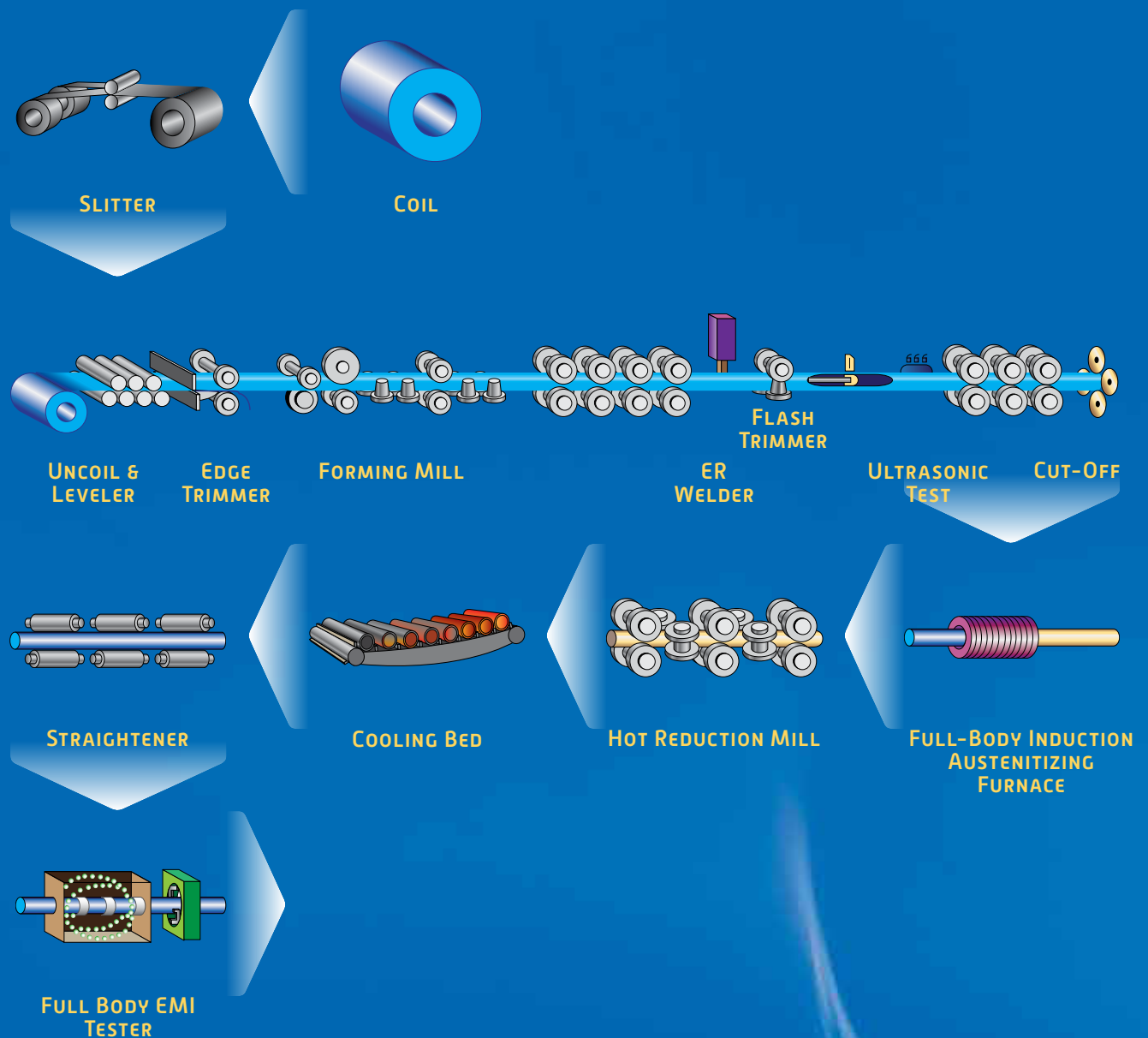
QUENCH AND TEMPER PRODUCT FINISHING FOR: 4-1/2" - 7"



QUENCH AND TEMPER PRODUCT FINISHING FOR: 5" - 7"



LONE STAR, TEXAS – MILL NO. 1 – 7" TO 16" OD ELECTRIC RESISTANCE WELD MANUFACTURING PROCESS



Lengths:
Texas Tubular Grades:

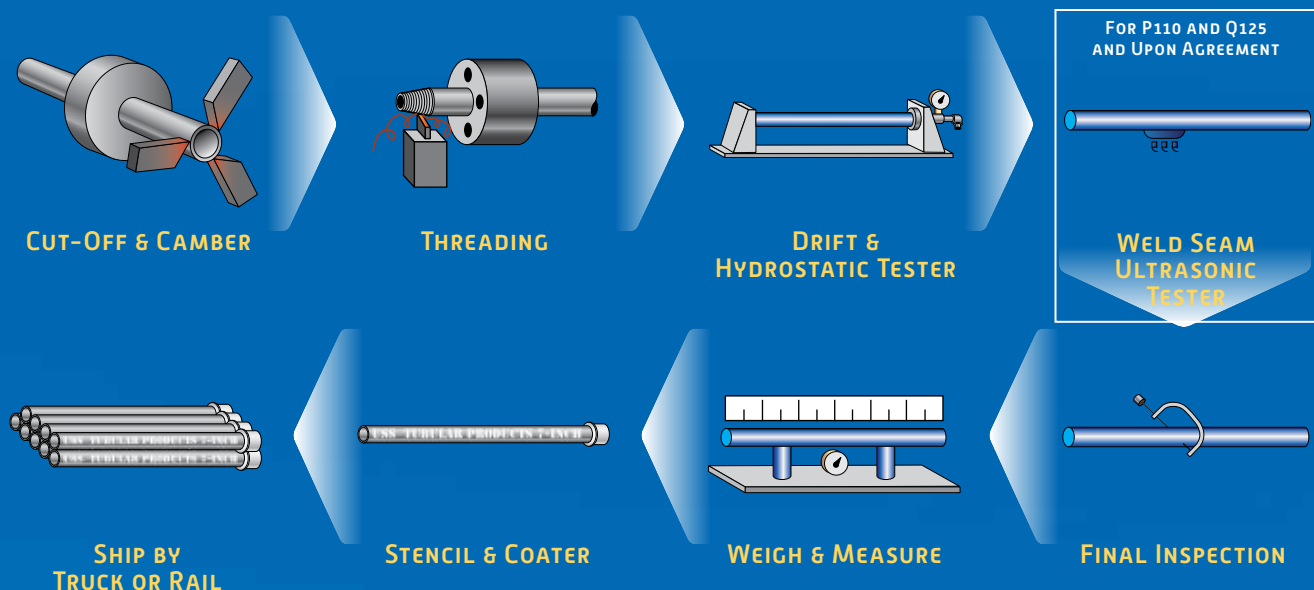
Range 3 Casing
H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, P110 [to SR 16],
P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP

Pipe manufactured to these grades will be marked with the API monogram.

Proprietary Grades:

USS HCK55, USS RYH110. Others available through inquiry.

STANDARD PRODUCT FINISHING FOR: 7" - 16"



FACILITIES

U. S. Steel's Lone Star Tubular Operations Mill No. 1 manufactures and distributes high quality ERW and specialty tubular products primarily for the oil and gas industries.

Steel arrives at the facility as master coils and is then slit to precise width on an offline slitter. Alternately, it can be side trimmed in line, which shears both edges to provide proper width and clean surfaces for welding, just prior to welding.

The strip then passes through a series of forming rolls, which transform the strip from flat steel to round pipe sections. The edges of the strip are contoured for seam welding. The weld is created by heat obtained from the pipe's resistance to the flow of electric current of the circuit of which it is part, and by applied pressure. No extraneous metal is used in the welding process.

After the flash (metal extruded by the weld process) is removed from the pipe's inside and

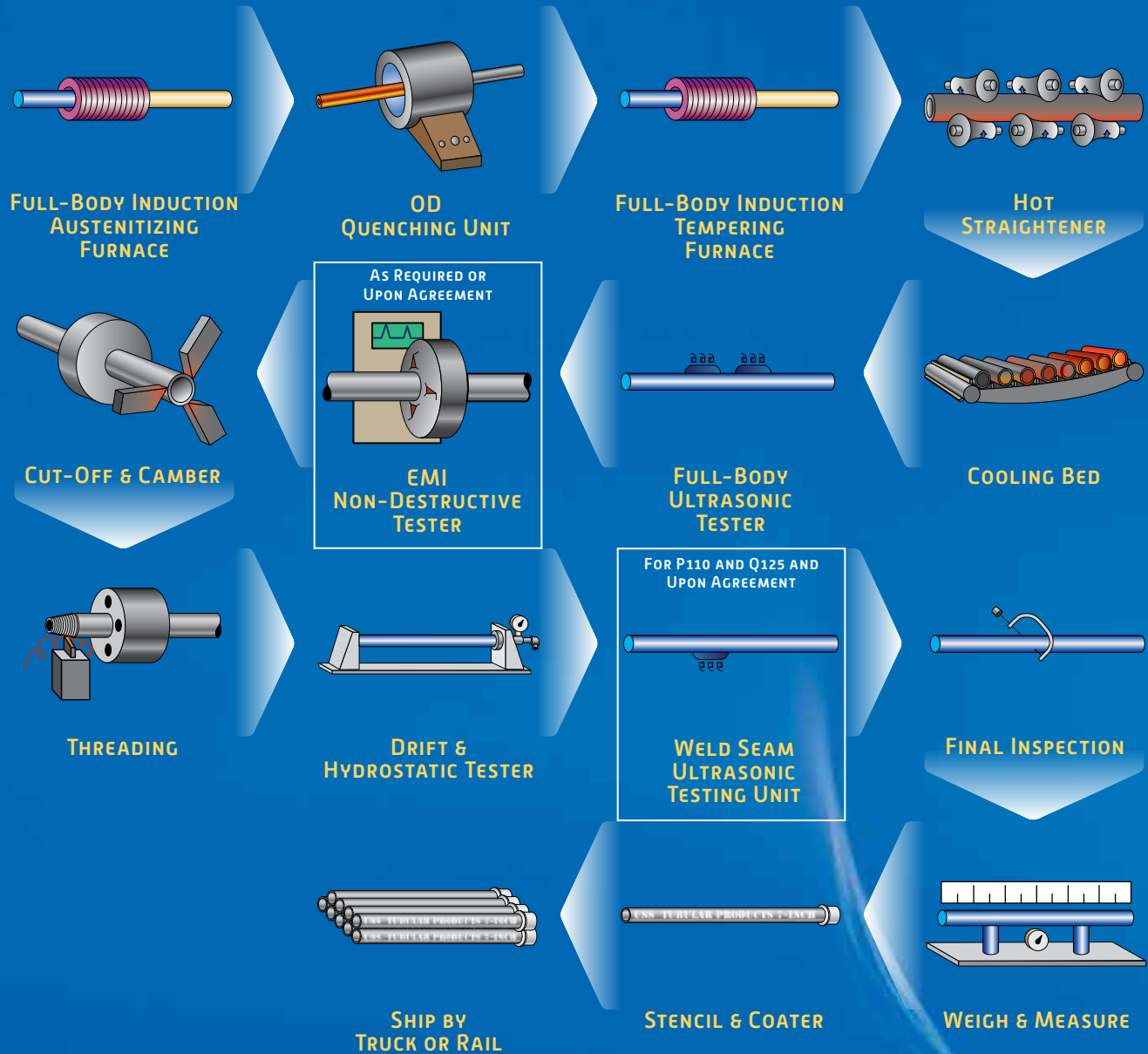
outside surfaces, the pipe is cut to length by a flying rotary cutoff. Weld integrity is checked in line by ultrasonic test equipment just after the welding process.

The pipe passes through a battery of induction heating furnaces where it is heated to temperatures above 1,650°F, hot reduced to ordered size and air cooled. This full body normalizing operation produces uniform grain structure throughout the entire pipe wall.

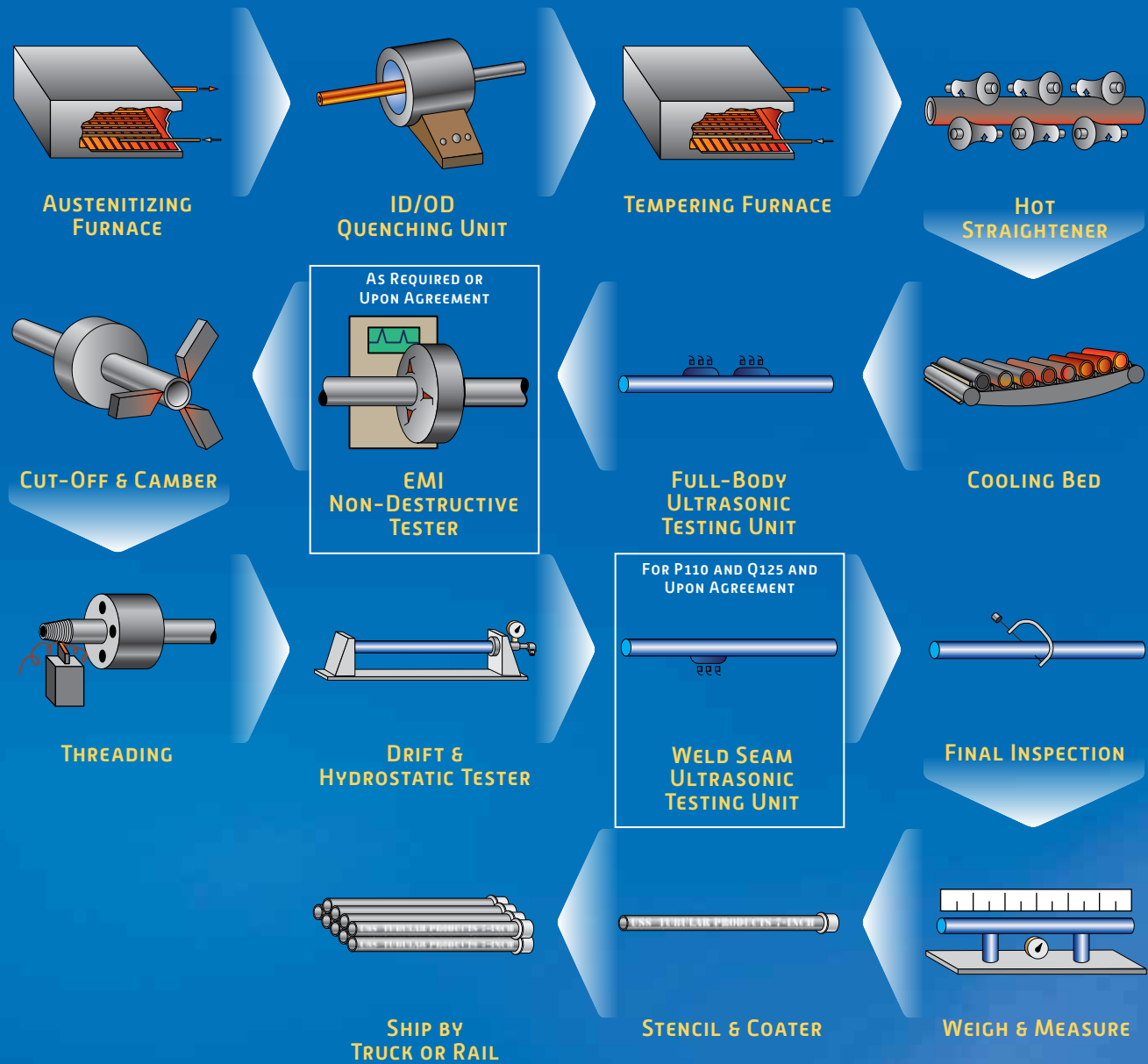
After cooling, pipe is straightened, visually inspected, stenciled with the appropriate identity and queued for finishing or quench and temper. For products that are not quenched and tempered, laboratory tests confirm full compliance to specifications and other mechanical property requirements before the pipe is beveled, electromagnetically inspected and hydrostatically tested.

LONE STAR, TEXAS - MILL NO. 1 - 7" TO 16" OD ELECTRIC RESISTANCE WELD MANUFACTURING PROCESS

QUENCH AND TEMPER PRODUCT FINISHING FOR: 7" - 7-5/8"

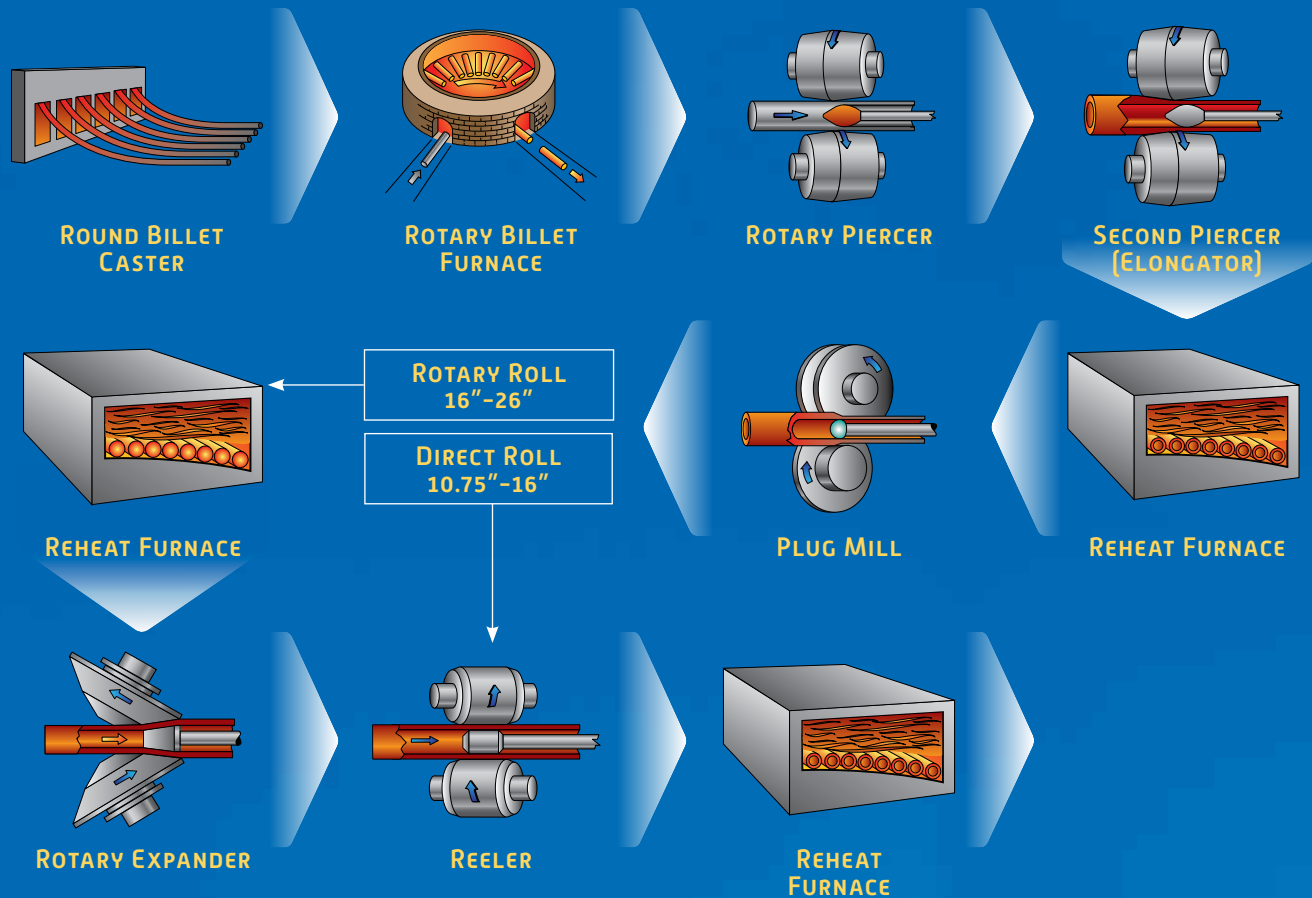


QUENCH AND TEMPER PRODUCT FINISHING FOR: 7" - 16"



FACILITIES

LORAIN, OHIO - MILL No. 3 - 10-1/8" TO 26" OD SEAMLESS MANUFACTURING PROCESS



Lengths:	Range 3 Casing
Lorain Tubular Grades:	H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, C90, R95, T95, C110, P110 [to SR 16], P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP

Pipe manufactured to these grades will be marked with the API monogram.

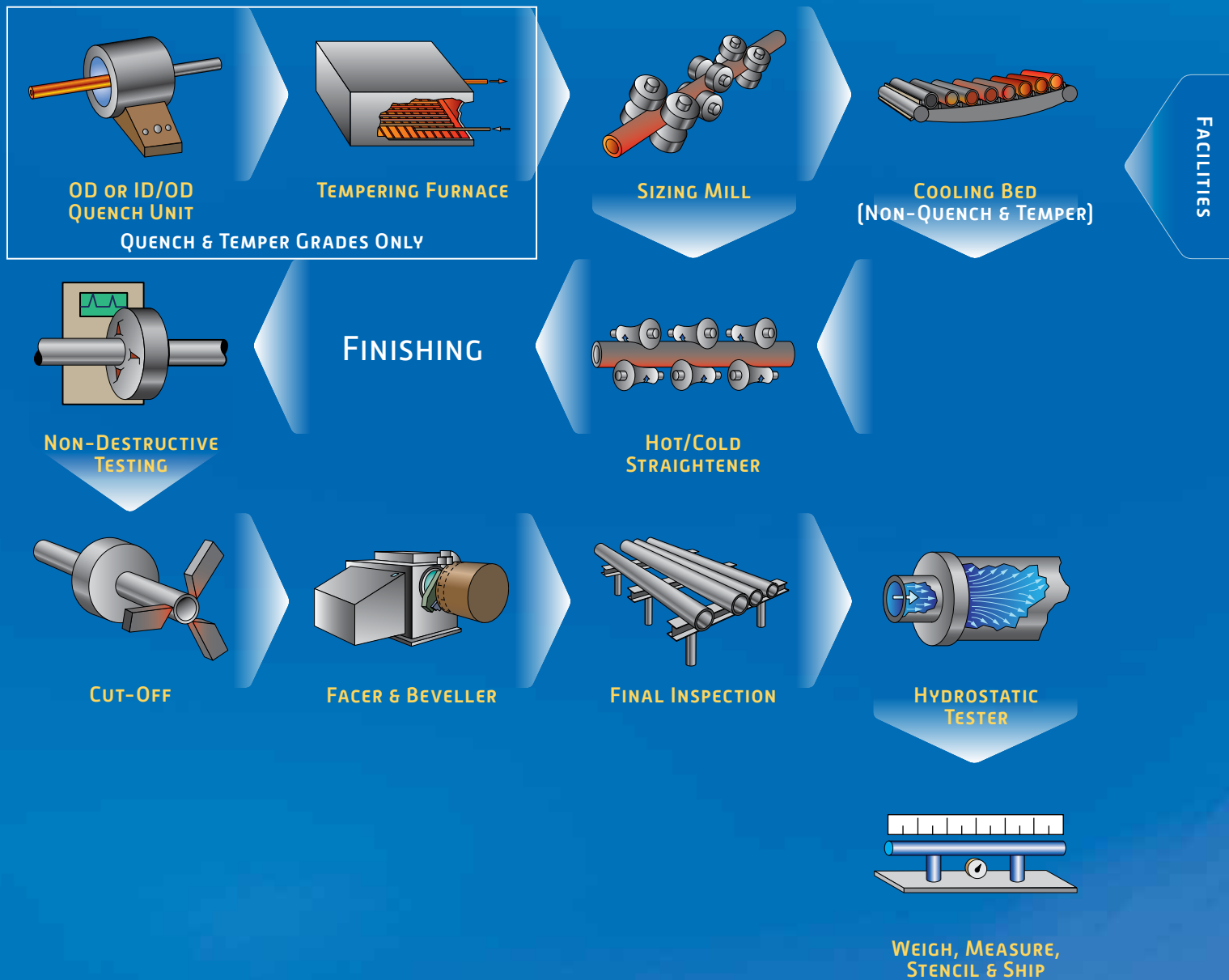
Proprietary Grades: USS GT 80S, USS C90, USS C95, USS C100, USS RYS110, USS C110, USS 140, USS V150

Lorain Mill No. 3 manufactures superior seamless pipe using the latest steelmaking technology. The process begins with continuous cast round billets heated in a rotary hearth furnace where temperatures exceed 2,300°F.

The preheated billets are processed through two piercing mills and a plug rolling mill to increase diameter and length and reduce wall thickness. As the billet goes through the first piercer, it is gripped by rolls that rotate and advance it over the piercer point, forming a hole through its length. A second piercing mill further increases the diameter and length and reduces wall thickness.

The pierced billet passes through the plug rolling mill to again reduce the wall thickness and increase the length. Pipe larger than 16" OD is reheated and sent through a rotary rolling mill, which uses large discs to expand the hot tubes up to 26" in diameter. Rotary rolling can produce pipe as long as 45 feet.

The pipe then passes through the reeling and sizing mills. The reeling mill grips the pipe and advances it over a mandrel, burnishing the inside and outside surfaces. After moving through an intermediate cooling station, the pipe proceeds on one of two paths.



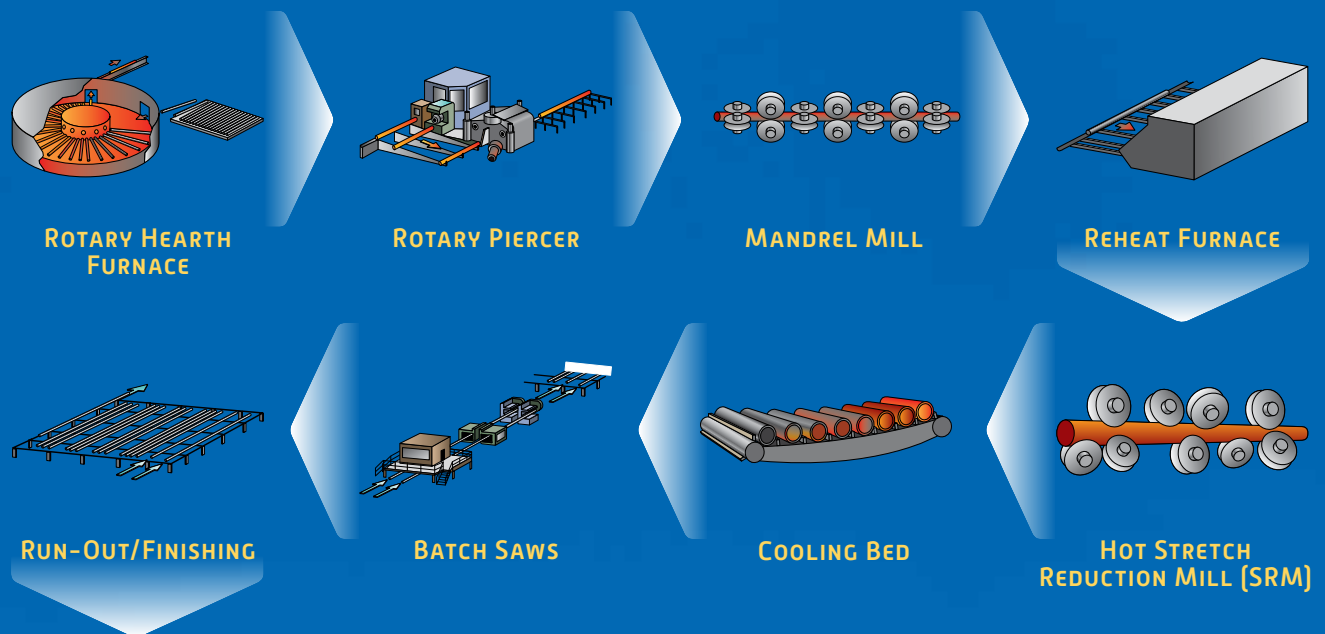
If the steel is an as-rolled carbon grade product, it is heat-equalized in a reheat furnace and then sent through a three-stand sizing mill to reach final OD. If the steel requires heat treating, the furnace's temperature is raised to austenitize the pipe. The steel exits the furnace and passes through a state-of-the-art OD or ID/OD quench and a walking-beam, computer-controlled, multi-zone temper furnace before rejoining the main production line at the sizing mill. After sizing, the pipe cools on a slowly moving conveyor table.

The last step is the rotary straightener, where the pipe is brought to the required straightness.

The pipe is then ready for finishing, in which it undergoes non-destructive testing, evaluation and cut-off operations to ensure there are no non-conforming body wall imperfections.

The pipe is then subjected to a hydrostatic test as a strength and leak check. A final visual inspection is given to the pipe prior to stenciling, loading and shipping. When required by specification or customer order requirements, the pipe is processed through one of several offline ultrasonic testing and special end-area inspection units.

LORAIN, OHIO - MILL NO. 4 - 1.900" TO 4-1/2" OD SEAMLESS MANUFACTURING PROCESS



Lengths:

Lorain Tubular Grades:

Range 3 Casing, Range 2 Tubing

H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, C90, R95, T95, C110, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP

Pipe manufactured to these grades will be marked with the API monogram.

Proprietary Grades:

USS GT 80S, USS C90, USS C95, USS C100, USS RYS110, USS C110, USS 140, USS V150

Lorain Tubular Operations Mill No. 4 can heat treat, finish, thread and test 330,000 tons/year of heat-treated and finished casing in sizes from 1.900" to 4-1/2" OD.

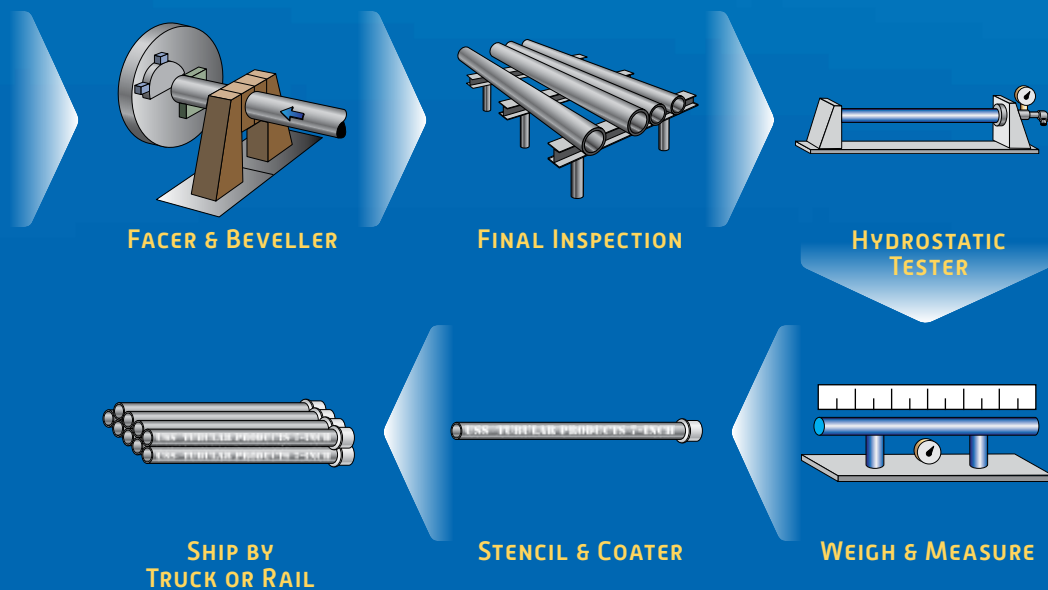
The process begins with continuous cast round billets heated in a rotary hearth furnace to proper temperature for piercing. The heated billets are center punched and pierced by advancing the billet over a piercer point in the piercing mill.

The pierced billet or shell is transferred to a mandrel mill and rolled over a solid mandrel where the OD is reduced and the length is increased. The shell is then reheated to proper rolling temperature in preparation for the final rolling process.

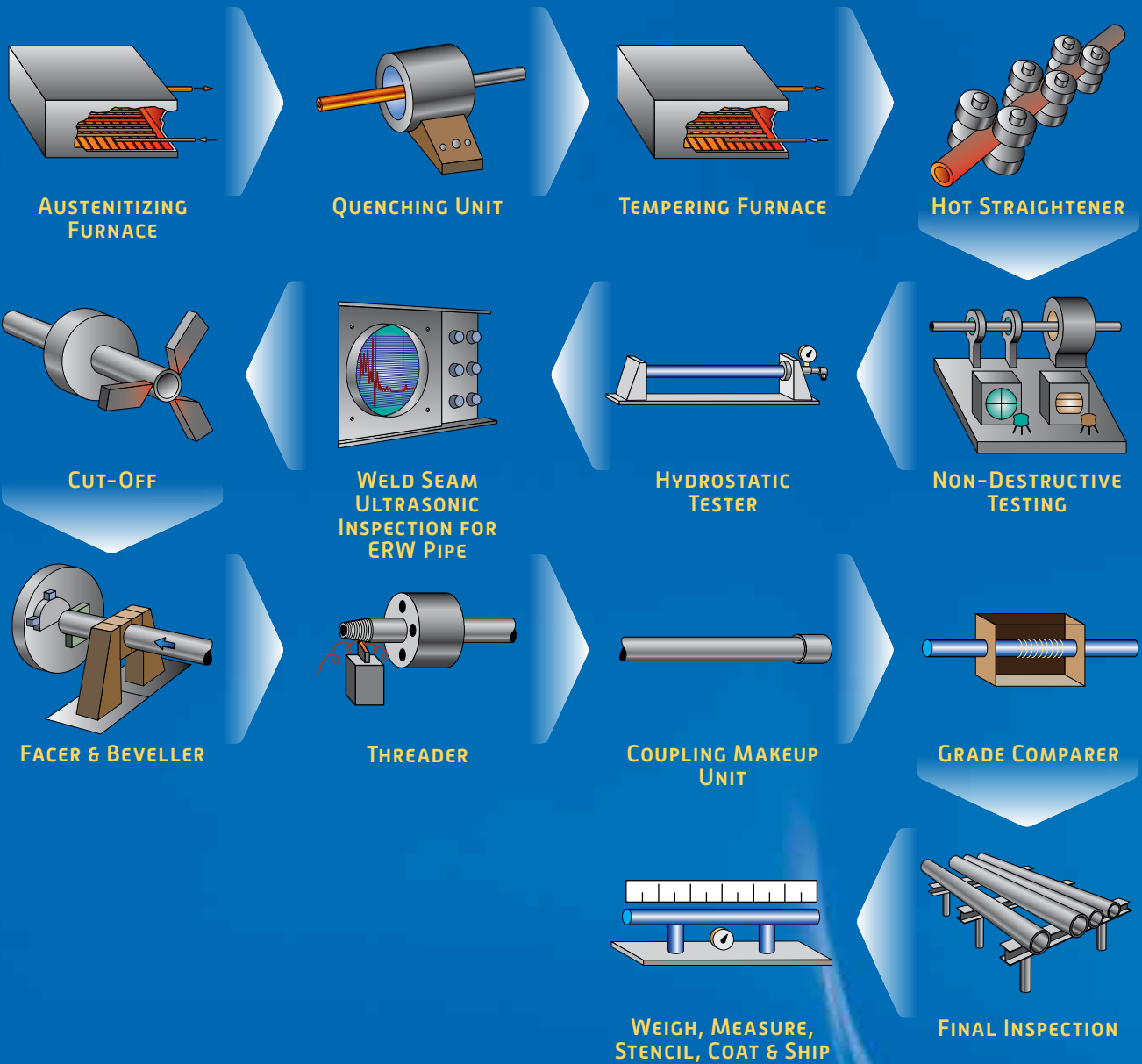
The hot shell proceeds through a descaling unit to prepare the OD surface for rolling through the Hot Stretch Reduction Mill (SRM). At this stage, the final OD and wall thickness are established for the pipe. After exiting the SRM, the pipe is allowed to cool on a walking-beam cooling bed. Sample inspections are conducted at this point.

After cooling, the pipe is batched, stenciled and sawed to the specified length. The sawed pipe is then faced on dual automatic facers, followed by inspections in accordance with quality program requirements. The pipe is then pressure tested, weighed, measured, stenciled with a unique identification, coated and loaded onto rail cars or trucks for shipment to customers.

FINISHING



LORAIN, OHIO - FACILITY NO. 6 - 2-3/8" TO 7-5/8" OD QUENCH AND TEMPER FINISHING FACILITY



Green Tube Types:	Seamless and High-Frequency Electric Resistance Weld (ERW)
Lengths:	20' to 48'
Lorain Tubular Grades:	H40, J55, K55, L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, N80 Type I, C90, R95, T95, C110, P110 (to SR 16), P110, P110 HC, P110 HP, Q125, Q125 HC, Q125 HP
	<i>Pipe manufactured to these grades will be marked with the API monogram.</i>
Proprietary Grades:	USS GT 80S, USS C90, USS C95, USS C100, USS RYS110, USS RYH110, USS C110, USS 140, USS V150

The No. 6 Quench and Temper and Finishing Facility was commissioned in 2011. The mill processes pipe from 2-3/8" to 7-5/8" inches in outside diameter, with a wall thickness of up to 0.812 inches and to a maximum finished pipe length of 48 feet.

Green tubes to be heat treated arrive in railroad cars and are loaded on a charge table with a magnet crane. Pipe is conveyed into the austenitizing furnace and heated to 1,550°F and then cooled with an outside diameter water quench to below 200°F. After entering the tempering furnace, precise control of the temperature is used to control the mechanical

properties along the length of the pipe. Pipe travels through a 6-roll opposing straightener and then to a walking-beam cooling bed.

The finishing portion of the facility starts with a combination Electromagnetic Inspection (EMI) /Ultrasonic Testing (UT) unit and a Special End Area (SEA) inspection unit for detection of longitudinal and transverse indications and measurement of wall thickness. Pipe is then pressure tested and sent to the cutoffs, facers and threaders for end finishing. Before shipment to the customer, the pipe has couplings applied, is full-length drifted, grade-verified, length measured, weighed, stenciled and coated.



U. S. Steel Oilwell Services' Offshore Operations facility in Houston, Texas

CONNECTIONS

With oil and gas producers reaching ever deeper underground and underwater to produce hydrocarbons, U. S. Steel Tubular Products has responded with solutions that can handle the most remote and rugged environments. Our line of premium and semi-premium connections is designed to be user friendly on the rig floor while meeting your high-torque, high-pressure and high-build rate requirements.



Couplings manufactured at Wheeling Machine Products in Pine Bluff, Arkansas

CONNECTIONS

U. S. Steel Tubular Products produces industry-leading threaded and coupled connections, as well as integral connections. Each high-performance connection serves a distinct purpose to maximize the productivity of every project.

The choice of connection is guided by many factors, including the length of casing string and the loads applied by well conditions, such as pressure and temperature.

Connections are qualified by a recognized testing protocol to specified Connection Application Levels (CAL). Each level reflects progressively higher performance based on load combinations of tension, compression, bending, internal pressure and external pressure.

- CAL I connections are qualified for use in the least severe applications. Three samples are tested in tension and compression, with liquid internal pressure.
- CAL II connections are qualified for nominal applications. Four samples are tested to the loads of CAL I, but with gas pressure and the addition of mechanical and thermal cyclic loads.
- CAL III connections are qualified for more severe applications. Six samples are tested by application of tension and compression, with internal and external gas pressure added. The samples are also tested with mechanical and thermal cyclic loads to 275°F.
- CAL IV connections are qualified for the most severe applications. Eight samples are tested to the loads of CAL III, with the addition of bending and additional thermal cycles to 356°F.



USS-PATRIOT TC® is ideal for extended reach drilling.

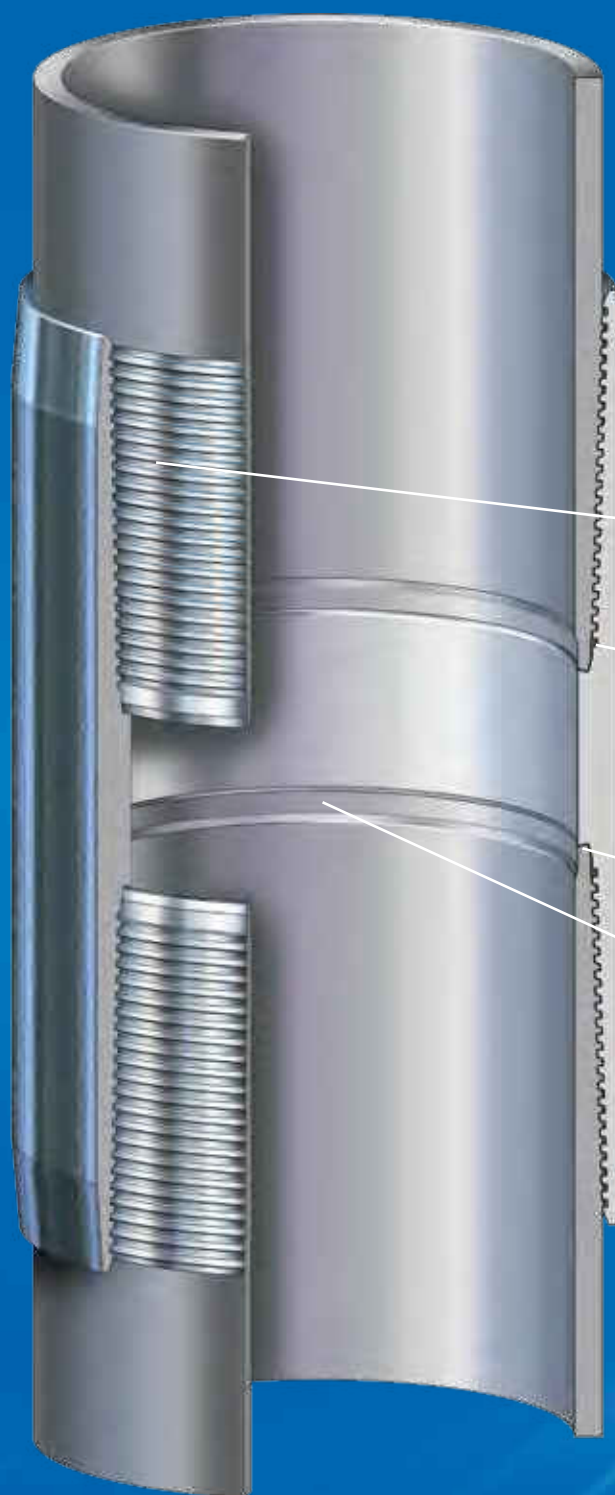
USS-PATRIOT TC®

Applications

- Specially designed for extended reach drilling applications
- Outside diameter sizes from 4-1/2 to 7-5/8 inches

Features and Benefits

- Radial interference fit metal-to-metal seal provides gas-tight service with an internal pressure rating equal to API pipe body rating
- Robust internal shoulder uses reverse angle torque shoulder to create a positive stop and control seal make-up
- Smooth internal transition minimizes turbulence and prevents hang-up of downhole tools
- Optimized run-out thread design yields tensile strength equal to the pipe body
- Extended coupling bevel boosts connection tensile performance and improves installation in horizontal wells



Modified buttress thread form

Radial interference fit
metal-to-metal seal

Robust internal shoulder

Smooth internal transition

Extended coupling bevel

CONNECTIONS

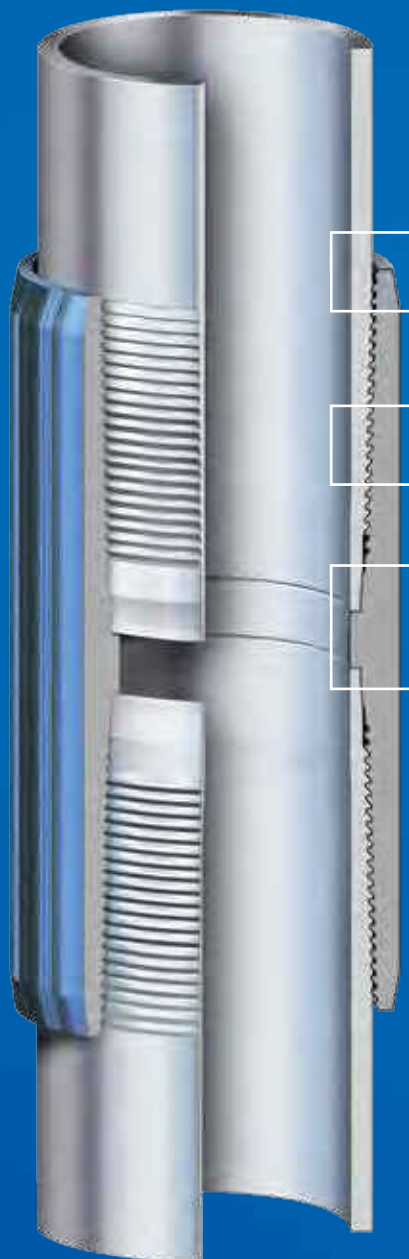
USS-PATRIOT EBM™

Applications

- Production tubing
- Deep well
- Vertical / horizontal / directional wells
- Thermal service
- High pressure / high temperature (HP/HT)
- CRA tubing

Features and Benefits

- Excellent resistance to thread galling, with ten make-and-break cycles administered during testing
- Utilizes proven U. S. Steel Improved Buttress thread form developed by U. S. Steel in the 1950s
- Plain end threaded and coupled premium connection with non-upset ends
- Extended pin nose design provides seal damage protection during assembly and allows racking back in the derrick without damage
- Standard design allows for ease of manufacture for accessories and repairs at local service centers



- 10° Outside Diameter Bevel to Minimize Hang-Up While Running



- Utilizes U. S. Steel Improved Buttress Thread Form



- Metal-to-Metal Gas-Tight Seal
- Extended Pin Nose Design
- 90° Torque Shoulder
- Smooth Internal Transition

USS-LIBERTY FJM™

Applications

- Ideal for close clearance liners
- Repair liners for damaged casing
- Outside diameter sizes from 3-1/2 to 7 inches

Features and Benefits

- True flush outside diameter
- Hooked thread form
- Metal-to-metal internal and external pressure seal
- Collapse and internal yield pressure equal to pipe body
- High compression strength for rotating and reciprocating during cementing



CONNECTIONS

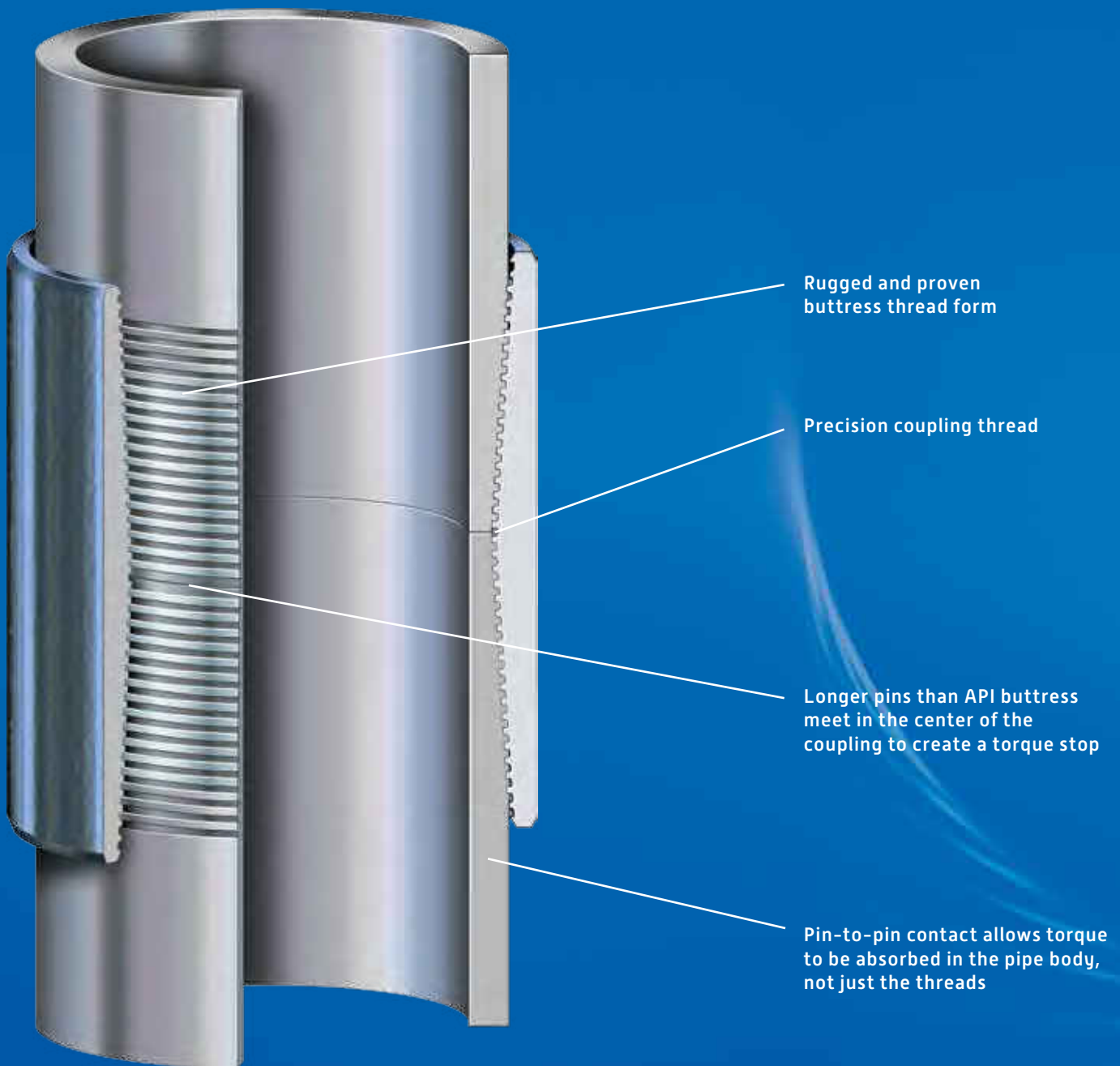
USS-CDC™

Applications

- Unconventional shale plays
- Horizontal wells
- Economical casing drilling
- 4-1/2 to 13-3/8 inch sizes

Features and Benefits

- Modified API buttress threaded and coupled connection
- Provides high torsional loads
- Enhanced fatigue resistance
- Easy handling characteristics
- Flush inside diameter minimizes flow resistance



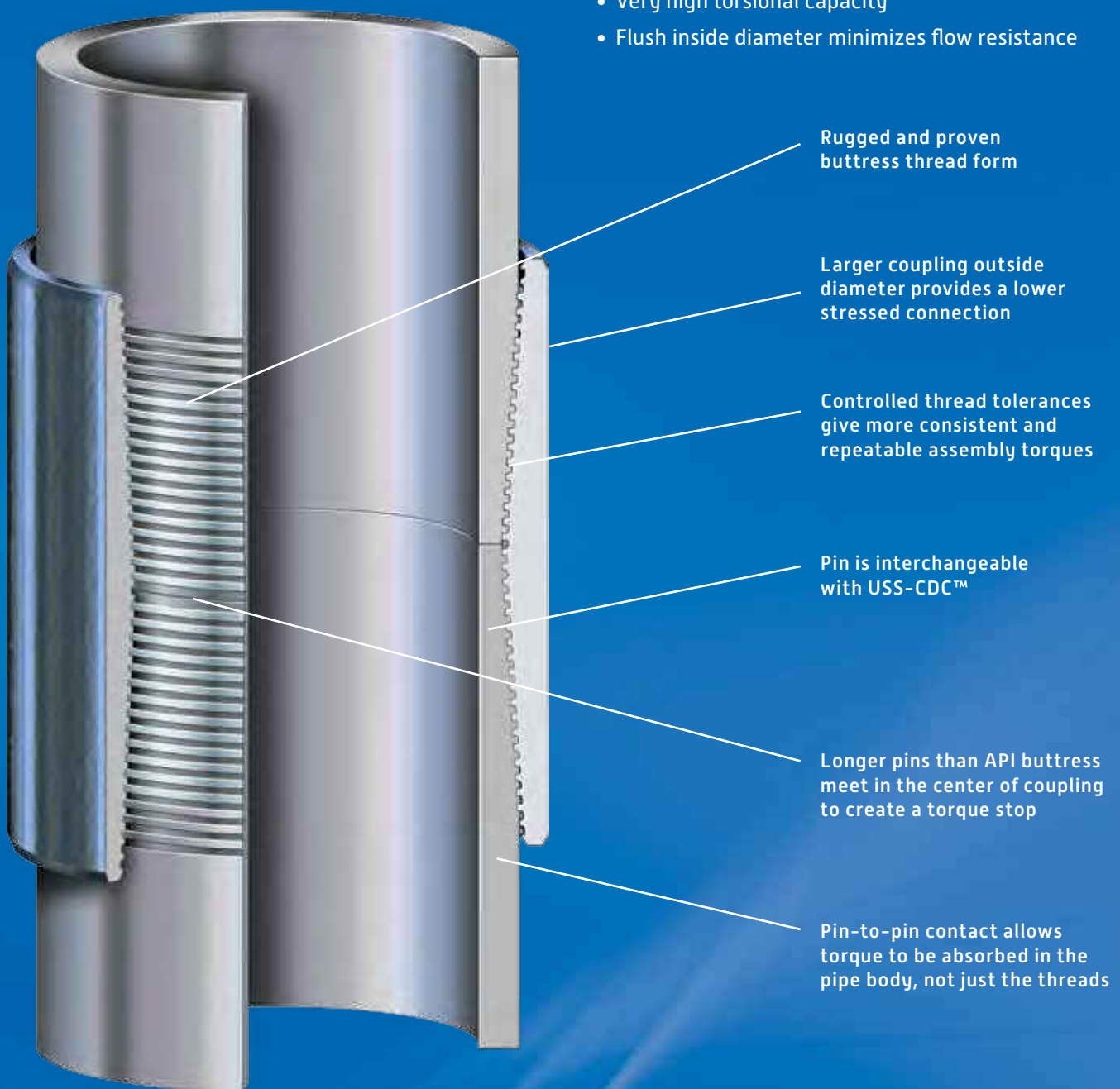
USS-CDC HTQ™

Applications

- Horizontal drilling, hydraulic fracturing and other applications requiring the need for higher torques and resistance to bending stresses
- 4-1/2 to 7 inch sizes

Features and Benefits

- Longer pins and a larger outside diameter coupling than API buttress produce a more stable connection with a more uniform stress profile under bending, rotating and hydraulic fracturing
- Lower stressed connection relative to similar size API buttress couplings
- Controlled thread tolerances give more consistent and repeatable assembly torques
- Very high torsional capacity
- Flush inside diameter minimizes flow resistance



CONNECTIONS

USS-PATRIOT TC®

Pipe Size OD	Nominal Weight	Wall Thickness	Nominal ID	Drift Diameter	Nominal Pipe Body Area	Coupling Turned OD	Connection Bored ID	Makeup Loss
in.	lbs/ft	in.	in.	in.	in. ²	in.	in.	in.
4 1/2	11.6	0.250	4.000	3.875	3.338	4.917	3.987	4.53
4 1/2	12.6	0.271	3.958	3.833	3.600	4.954	3.945	4.53
4 1/2	13.5	0.290	3.920	3.795	3.836	4.987	3.907	4.53
4 1/2	15.1	0.337	3.826	3.701	4.407	5.067	3.902	4.53
4 1/2	17.0	0.380	3.740	3.615	4.918	5.137	3.822	4.53
4 1/2	18.9	0.430	3.640	3.515	5.498	5.215	3.732	4.53
5	15.0	0.296	4.408	4.283	4.374	5.496	4.394	4.69
5	18.0	0.362	4.276	4.151	5.275	5.610	4.351	4.69
5	20.3	0.408	4.184	4.059	5.886	5.686	4.271	4.69
5	20.8	0.422	4.156	4.031	6.069	5.708	4.241	4.69
5	21.4	0.437	4.126	4.001	6.264	5.732	4.221	4.69
5	23.2	0.478	4.044	3.919	6.791	5.796	4.141	4.69
5 1/2	17.0	0.304	4.892	4.767	4.962	5.980	4.876	4.80
5 1/2	20.0	0.361	4.778	4.653	5.828	6.075	4.854	4.80
5 1/2	23.0	0.415	4.670	4.545	6.630	6.162	4.754	4.80
5 1/2	26.0	0.476	4.548	4.423	7.513	6.256	4.644	4.80
6 5/8	23.2	0.330	5.965	5.840	6.526	7.147	5.946	5.07
6 5/8	24.0	0.352	5.921	5.796	6.937	7.185	6.001	5.07
6 5/8	28.0	0.417	5.791	5.666	8.133	7.294	5.881	5.07
6 5/8	32.0	0.475	5.675	5.550	9.177	7.388	5.781	5.07
6 5/8	35.0	0.525	5.575	5.450	10.061	7.467	5.691	5.07
7	23.0	0.317	6.366	6.250	6.655	7.490	6.346	5.29
7	26.0	0.362	6.276	6.151	7.549	7.569	6.360	5.29
7	29.0	0.408	6.184	6.059	8.449	7.647	6.280	5.29
7	32.0	0.453	6.094	6.000	9.317	7.722	6.200	5.29
7	35.0	0.498	6.004	5.879	10.172	7.795	6.110	5.29
7	38.0	0.540	5.920	5.795	10.959	7.862	6.040	5.29
7	41.0	0.590	5.820	5.695	11.881	7.939	5.950	5.29
7 5/8	26.4	0.328	6.969	6.844	7.519	8.127	6.947	5.53
7 5/8	29.7	0.375	6.875	6.750	8.541	8.210	6.968	5.53
7 5/8	33.7	0.430	6.765	6.640	9.720	8.304	6.868	5.53
7 5/8	35.8	0.465	6.695	6.570	10.460	8.363	6.798	5.53
7 5/8	39.0	0.500	6.625	6.500	11.192	8.421	6.738	5.53
7 5/8	42.8	0.562	6.501	6.376	12.470	8.521	6.628	5.53
7 5/8	45.3	0.595	6.435	6.310	13.141	8.573	6.568	5.53

USS-PATRIOT TC® tensile joint strength calculations were based on nominal pipe body area and specified minimum yield strength. Reference depth calculations were based on connection tensile joint strength, nominal weight in air and a design factor. These values are provided for reference only. Bending, buoyancy, temperature and other factors are not included. Tubular design should use an appropriate design factor. Connection yield torque is based on material minimum yield strength. All USS-PATRIOT TC® connections are interchangeable with other weights of the same outside diameter. Contact U. S. Steel Tubular Products to receive information for grades not listed.

80 KSI Connection			110 KSI Connection			125 KSI Connection		
Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque
1000 lbs	ft.	ft-lbs	1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs
267	15340	3900	367	21090	4900	417	23970	5400
288	15240	4600	396	20950	5700	450	23810	6300
307	15160	5200	422	20840	6500	479	23650	7100
353	15580	5600	485	21410	6800	551	24330	7500
393	15410	6800	541	21220	8400	615	24120	9100
440	15520	8100	605	21340	10000	687	24230	11000
350	15560	6400	481	21380	8000	547	24310	8900
422	15630	7600	580	21480	9400	659	24410	10300
471	15470	9100	647	21250	11300	736	24170	12300
486	15580	9600	668	21410	11900	759	24330	13100
501	15610	10000	689	21460	12400	783	24390	13600
543	15600	11400	747	21470	14200	849	24400	15600
397	15570	8000	546	21410	10000	620	24310	11100
466	15530	8800	641	21370	11000	729	24300	12100
530	15360	11100	729	21130	13800	829	24030	15200
601	15410	13500	826	21180	16800	939	24080	18500
522	15000	12700	718	20630	16200	816	23450	17900
555	15420	11500	763	21190	14400	867	24080	15900
651	15500	15400	895	21310	19400	1017	24210	21400
734	15290	18600	1010	21040	23500	1147	23900	25900
805	15330	21500	1107	21090	27000	1258	23960	29800
532	15420	12900	732	21220	16400	832	24120	18100
604	15490	13000	830	21280	16300	944	24210	18000
676	15540	15900	929	21360	20100	1056	24280	22100
745	15520	18800	1025	21350	23700	1165	24270	26200
814	15500	22000	1119	21310	27800	1272	24230	30600
877	15390	24500	1206	21160	30900	1370	24040	34100
950	15450	27700	1307	21250	34800	1485	24150	38400
602	15200	15700	827	20880	20000	940	23740	22200
683	15330	15600	940	21100	19600	1068	23970	21700
778	15390	19900	1069	21150	25200	1215	24040	27800
837	15590	22900	1151	21430	28900	1307	24340	32000
895	15300	25500	1231	21040	32200	1399	23910	35600
998	15550	30100	1372	21370	38000	1559	24280	42000
1051	15470	32600	1445	21270	41200	1643	24180	45500

CONNECTIONS

USS-PATRIOT EBM™

Pipe Size OD	Nominal Weight	Plain-End Weight	Wall Thickness	Drift Diameter	Coupling Turned OD	Connection Bored ID	Makeup Loss
in.	lbs/ft	lbs/ft	in.	in.	in.	in.	in.
2 3/8	4.60	4.44	0.190	1.901	2.775	1.976	3.38
2 3/8	5.10	5.03	0.218	1.845	2.775	1.920	3.38
2 3/8	5.80	5.76	0.254	1.773	2.775	1.848	3.38
2 3/8	6.00	5.90	0.261	1.759	2.775	1.834	3.38
2 3/8	6.30	6.27	0.280	1.721	2.775	1.796	3.38
2 3/8	6.60	6.56	0.295	1.691	2.775	1.766	3.38
2 3/8	7.35	7.32	0.336	1.609	2.775	1.758	3.38
2 7/8	6.40	6.17	0.217	2.347	3.400	2.422	3.38
2 7/8	7.80	7.67	0.276	2.229	3.400	2.304	3.38
2 7/8	8.60	8.45	0.308	2.165	3.400	2.240	3.38
2 7/8	9.35	9.21	0.340	2.101	3.400	2.250	3.38
2 7/8	9.80	9.72	0.362	2.057	3.400	2.207	3.38
2 7/8	10.50	10.40	0.392	1.997	3.400	2.149	3.38
2 7/8	11.00	10.69	0.405	1.971	3.400	2.124	3.38
3 1/2	7.70	7.58	0.216	2.943	4.150	3.049	3.38
3 1/2	9.20	8.81	0.254	2.867	4.150	2.973	3.38
3 1/2	10.20	9.92	0.289	2.797	4.150	2.903	3.38
3 1/2	12.60	12.32	0.368	2.639	4.150	2.821	3.38
3 1/2	12.70	12.53	0.375	2.625	4.150	2.807	3.38
3 1/2	13.70	13.63	0.413	2.549	4.150	2.734	3.38
3 1/2	14.30	14.11	0.430	2.515	4.150	2.701	3.38
3 1/2	14.90	14.64	0.449	2.477	4.150	2.664	3.38
3 1/2	15.40	15.39	0.476	2.423	4.150	2.612	3.38
4	8.20	7.74	0.190	3.495	4.650	3.601	3.50
4	9.50	9.12	0.226	3.423	4.650	3.529	3.50
4	10.90	10.47	0.262	3.351	4.650	3.457	3.50
4	11.60	11.35	0.286	3.303	4.650	3.409	3.50
4	12.10	11.83	0.299	3.277	4.650	3.383	3.50
4	13.20	12.95	0.330	3.215	4.650	3.394	3.50
4	14.80	14.71	0.380	3.115	4.650	3.298	3.50
4	16.10	15.90	0.415	3.045	4.650	3.230	3.50
4	16.50	16.41	0.430	3.015	4.650	3.201	3.50
4 1/2	10.50	10.24	0.224	3.927	5.150	4.033	3.50
4 1/2	11.60	11.36	0.250	3.875	5.150	3.981	3.50
4 1/2	12.60	12.25	0.271	3.833	5.150	3.939	3.50
4 1/2	13.50	13.05	0.290	3.795	5.150	3.901	3.50
4 1/2	15.20	15.00	0.337	3.701	5.150	3.881	3.50
4 1/2	16.60	16.54	0.375	3.625	5.150	3.807	3.50
4 1/2	17.00	16.74	0.380	3.615	5.150	3.798	3.50
4 1/2	17.70	17.61	0.402	3.571	5.150	3.755	3.50
4 1/2	18.90	18.71	0.430	3.515	5.150	3.701	3.50

USS-PATRIOT EBM™ connection joint strength calculations were based on nominal pipe body area and specified minimum yield strength. Reference depth calculations were based on connection joint strength, nominal weight in air and a design factor. These values are provided for reference only. Bending, buoyancy, temperature and other factors are not included. Tubular design should use an appropriate design factor of 1.5. All USS-PATRIOT EBM™ connections are interchangeable with other weights of the same outside diameter. Contact U. S. Steel Tubular Products to receive information for grades not listed.

55 KSI Connection		80 KSI Connection		95 KSI Connection		110 KSI Connection	
Joint Strength	Reference Depth	Joint Strength	Reference Depth	Joint Strength	Reference Depth	Joint Strength	Reference Depth
1,000 lbs	ft	1,000 lbs	ft	1,000 lbs	ft	1,000 lbs	ft
72	10435	104	15072	124	17971	143	20725
81	10588	118	15425	140	18301	162	21176
93	10690	135	15517	161	18506	186	21379
95	10556	139	15444	165	18333	191	21222
101	10688	147	15556	175	18519	203	21481
106	10707	154	15556	183	18485	212	21414
118	10703	172	15601	204	18503	237	21497
100	10417	145	15104	172	17917	199	20729
124	10598	180	15385	214	18291	248	21197
137	10620	199	15426	236	18295	273	21163
149	10624	217	15472	257	18324	298	21248
157	10680	229	15578	272	18503	314	21361
168	10667	245	15556	290	18413	336	21333
173	10485	251	15212	299	18121	346	20970
123	10649	178	15411	212	18355	245	21212
142	10290	207	15000	246	17826	285	20652
160	10458	233	15229	277	18105	321	20980
199	10529	290	15344	344	18201	398	21058
202	10604	295	15486	350	18373	405	21260
220	10706	320	15572	381	18540	441	21460
228	10629	332	15478	394	18368	456	21259
237	10604	344	15391	409	18300	473	21163
249	10779	362	15671	430	18615	497	21515
125	10163	182	14797	216	17561	250	20325
147	10316	214	15018	255	17895	295	20702
169	10336	246	15046	292	17859	338	20673
184	10575	267	15345	317	18218	367	21092
191	10523	278	15317	330	18182	382	21047
209	10556	304	15354	361	18232	419	21162
238	10721	346	15586	411	18514	475	21396
257	10642	374	15487	444	18385	514	21284
265	10707	386	15596	458	18505	530	21414
166	10540	241	15302	286	18159	331	21016
184	10575	267	15345	317	18218	367	21092
198	10476	288	15238	342	18095	396	20952
211	10420	307	15160	364	17975	422	20840
242	10614	353	15482	419	18377	485	21272
267	10723	389	15622	462	18554	535	21486
271	10627	393	15412	467	18314	541	21216
285	10734	414	15593	492	18531	569	21431
302	10653	440	15520	522	18413	605	21340

CONNECTIONS

USS-LIBERTY FJM™

Pipe Size OD	Nominal Weight	Plain-End Weight	Wall Thickness	Nominal ID	Drift Diameter	Nominal Pipe Body Area	Pin Bored ID	Makeup Loss	Connection Efficiency
in.	lbs/ft	lbs/ft	in.	in.	in.	in. ²	in.	in.	
3 1/2	9.2	8.81	0.254	2.992	2.867	2.590	2.906	2.93	63.10%
3 1/2	10.2	9.92	0.289	2.922	2.797	2.915	2.836	3.17	62.64%
3 1/2	12.7	12.53	0.375	2.750	2.625	3.682	2.664	3.67	61.77%
3 1/2	14.3	14.11	0.430	2.640	2.515	4.147	2.554	4.05	61.48%
3 1/2	14.9	14.64	0.449	2.602	2.477	4.304	2.516	4.17	61.43%
3 1/2	15.8	15.39	0.476	2.548	2.423	4.522	2.462	4.30	61.30%
4	9.5	9.12	0.226	3.548	3.423	2.680	3.462	2.81	63.97%
4	11.0	10.47	0.262	3.476	3.351	3.077	3.390	2.93	62.77%
4	11.6	11.35	0.286	3.428	3.303	3.337	3.342	3.18	63.02%
4	13.2	12.95	0.330	3.340	3.215	3.805	3.254	3.43	62.45%
4	14.8	14.71	0.380	3.240	3.115	4.322	3.154	3.68	61.59%
4	16.1	15.90	0.415	3.170	3.045	4.674	3.084	3.93	61.58%
4 1/2	11.6	11.36	0.250	4.000	3.875	3.338	3.914	2.94	63.57%
4 1/2	12.6	12.25	0.271	3.958	3.833	3.600	3.872	3.07	63.24%
4 1/2	13.5	13.05	0.290	3.920	3.795	3.836	3.834	3.19	62.80%
4 1/2	15.1	15.00	0.337	3.826	3.701	4.407	3.740	3.44	62.28%
4 1/2	16.6	16.54	0.375	3.750	3.625	4.860	3.664	3.69	61.90%
4 1/2	18.8	18.71	0.430	3.640	3.515	5.498	3.554	4.07	61.65%
5	11.5	11.24	0.220	4.560	4.435	3.304	4.474	2.70	63.70%
5	13.0	12.84	0.253	4.494	4.369	3.773	4.408	2.95	63.15%
5	15.0	14.88	0.296	4.408	4.283	4.374	4.322	3.20	62.69%
5	18.0	17.95	0.362	4.276	4.151	5.275	4.190	3.58	62.00%
5	20.3	20.03	0.408	4.184	4.059	5.886	4.098	3.83	61.59%
5	20.8	20.65	0.422	4.156	4.031	6.069	4.070	3.95	61.56%
5	21.4	21.32	0.437	4.126	4.001	6.264	4.040	4.08	61.57%
5	23.2	23.11	0.478	4.044	3.919	6.791	3.958	4.33	61.42%
5	24.1	24.05	0.500	4.000	3.875	7.069	3.914	4.45	61.31%
5	26.7	26.66	0.562	3.876	3.751	7.836	3.790	4.70	60.70%
5 1/2	15.5	15.36	0.275	4.950	4.825	4.514	4.864	2.80	58.02%
5 1/2	17.0	16.89	0.304	4.892	4.767	4.962	4.806	2.97	58.14%
5 1/2	20.0	19.83	0.361	4.778	4.653	5.828	4.692	3.30	58.09%
5 1/2	23.0	22.56	0.415	4.670	4.545	6.630	4.584	3.47	57.66%
5 1/2	26.0	25.56	0.476	4.548	4.500	7.513	4.539	3.80	54.10%
5 1/2	26.8	26.73	0.500	4.500	4.375	7.854	4.414	3.97	57.81%
5 1/2	28.4	28.16	0.530	4.440	4.315	8.275	4.354	4.13	57.85%
5 1/2	29.7	29.67	0.562	4.376	4.251	8.718	4.290	4.30	57.78%
6 5/8	20.0	19.51	0.288	6.049	5.924	5.734	5.963	3.27	59.60%
6 5/8	23.2	22.21	0.330	5.965	5.840	6.526	5.879	3.60	59.95%
6 5/8	24.0	23.60	0.352	5.921	5.796	6.937	5.835	3.76	60.03%
6 5/8	28.0	27.67	0.417	5.791	5.666	8.133	5.705	4.10	59.56%
6 5/8	28.6	28.60	0.432	5.761	5.636	8.405	5.675	4.10	59.21%
6 5/8	32.0	31.23	0.475	5.675	5.550	9.177	5.589	4.43	59.44%
6 5/8	33.0	32.74	0.500	5.625	5.500	9.621	5.539	4.60	59.38%
6 5/8	34.5	34.23	0.525	5.575	5.450	10.061	5.489	4.76	59.52%
6 5/8	36.7	36.43	0.562	5.501	5.376	10.705	5.415	4.93	59.40%
7	20.0	19.56	0.272	6.456	6.331	5.749	6.370	3.41	60.12%
7	23.0	22.65	0.317	6.366	6.250	6.655	6.289	3.58	58.80%
7	26.0	25.69	0.362	6.276	6.151	7.549	6.190	3.91	59.57%
7	29.0	28.75	0.408	6.184	6.125	8.449	6.164	4.24	56.15%
7	32.0	31.70	0.453	6.094	6.000	9.317	6.039	4.41	57.92%
7	35.0	34.61	0.498	6.004	5.879	10.172	5.918	4.74	59.53%
7	38.0	37.29	0.540	5.920	5.795	10.959	5.834	4.91	59.28%

USS-LIBERTY FJM™ connection efficiency is calculated by dividing the connection critical area by the nominal pipe body area. Tensile and compressive strengths are calculated by multiplying the pipe body yield and connection efficiency. Reference depth calculations were based on connection tensile joint strength, nominal weight in air and a design factor. These values are provided for reference only. Bending, buoyancy, temperature and other factors are not included. Tubular design should use an appropriate design factor. USS-LIBERTY FJM™ connections are optimized for each combination of outside diameter and wall thickness, and cannot be interchanged. Contact U. S. Steel Tubular Products to receive information for grades not listed.

55 KSI Connection		80 KSI Connection		95 KSI Connection		110 KSI Connection		125 KSI Connection	
Tensile and Compressive Strength	Reference Depth DF=1.5	Tensile and Compressive Strength	Reference Depth DF=1.5	Tensile and Compressive Strength	Reference Depth DF=1.5	Tensile and Compressive Strength	Reference Depth DF=1.5	Tensile and Compressive Strength	Reference Depth DF=1.5
1000 lbs	ft	1000 lbs	ft	1000 lbs	ft	1000 lbs	ft	1000 lbs	ft
90	6810	131	9910	155	11730	180	13620	204	15440
100	6720	146	9810	173	11630	201	13510	228	15320
125	6650	182	9680	216	11490	250	13300	284	15110
140	6610	204	9640	242	11430	280	13230	319	15070
145	6600	212	9650	251	11430	291	13250	330	15030
152	6580	222	9620	263	11390	305	13210	347	15030
94	6870	137	10010	163	11920	189	13820	214	15640
106	6750	154	9810	183	11650	212	13500	241	15350
116	6810	168	9870	200	11750	231	13570	263	15450
131	6740	190	9780	226	11630	261	13440	297	15290
146	6620	213	9650	253	11470	293	13280	333	15090
158	6620	230	9640	273	11450	317	13290	360	15090
117	6870	170	9980	202	11850	233	13670	265	15550
125	6800	182	9900	216	11760	250	13610	285	15510
132	6740	193	9860	229	11700	265	13540	301	15380
151	6710	220	9780	261	11600	302	13420	343	15240
165	6650	241	9710	286	11530	331	13340	376	15160
186	6630	271	9660	322	11470	373	13290	424	15110
116	6880	168	9960	200	11860	231	13700	263	15600
131	6800	191	9920	226	11730	262	13600	298	15470
151	6770	219	9810	261	11690	302	13530	343	15370
180	6690	262	9730	311	11550	360	13370	409	15190
199	6620	290	9650	344	11450	399	13280	453	15080
205	6620	299	9650	355	11460	411	13270	467	15080
212	6630	309	9660	366	11440	424	13260	482	15070
229	6610	334	9640	396	11420	459	13240	521	15030
238	6600	347	9620	412	11420	477	13220	542	15020
262	6550	380	9500	452	11300	523	13080	594	14850
144	6250	210	9110	249	10810	288	12500	327	14190
159	6280	231	9120	274	10820	317	12510	361	14250
186	6250	271	9110	322	10830	372	12510	423	14220
210	6210	306	9040	363	10730	421	12440	478	14130
224	5840	325	8480	386	10070	447	11660	508	13250
250	6240	363	9050	431	10750	499	12450	568	14170
263	6230	383	9070	455	10770	527	12480	598	14160
277	6220	403	9060	479	10760	554	12450	630	14160
188	6420	273	9330	325	11110	376	12850	427	14590
215	6450	313	9400	372	11170	430	12910	489	14680
229	6470	333	9410	396	11190	458	12940	521	14720
266	6410	388	9350	460	11080	533	12840	605	14580
274	6390	398	9280	473	11030	547	12750	622	14500
300	6400	436	9310	518	11060	600	12810	682	14560
314	6390	457	9310	543	11060	628	12790	714	14540
329	6410	479	9330	569	11080	659	12830	749	14590
350	6400	509	9310	604	11050	699	12790	795	14550
190	6480	277	9440	328	11180	380	12950	432	14720
215	6330	313	9210	372	10950	430	12660	489	14390
247	6410	360	9340	427	11080	495	12850	562	14580
261	6050	380	8810	451	10460	522	12100	593	13750
297	6250	432	9090	513	10790	594	12490	675	14200
333	6410	484	9320	575	11080	666	12830	757	14580
357	6380	520	9300	617	11030	715	12780	812	14520

CONNECTIONS

USS-CDC™

Pipe Size OD	Nominal Weight	Wall Thickness	Nominal ID	Drift Diameter	Nominal Pipe Body Area	Coupling OD	Connection ID	Makeup Loss
in.	lbs/ft	in.	in.	in.	in. ²	in.	in.	in.
4 1/2	10.5	0.224	4.052	3.927	3.009	5.000	4.052	4.437
4 1/2	11.6	0.250	4.000	3.875	3.338	5.000	4.000	4.437
4 1/2	13.5	0.290	3.920	3.795	3.836	5.000	3.920	4.437
4 1/2	15.1	0.337	3.826	3.701	4.407	5.000	3.826	4.437
5	15.0	0.296	4.408	4.283	4.374	5.563	4.408	4.563
5	18.0	0.362	4.276	4.151	5.275	5.563	4.276	4.563
5	21.4	0.437	4.126	4.001	6.264	5.563	4.126	4.563
5	23.2	0.478	4.044	3.919	6.791	5.563	4.044	4.563
5 1/2	15.5	0.275	4.950	4.825	4.514	6.050	4.950	4.625
5 1/2	17.0	0.304	4.892	4.767	4.962	6.050	4.892	4.625
5 1/2	20.0	0.361	4.778	4.653	5.828	6.050	4.778	4.625
5 1/2	23.0	0.415	4.670	4.545	6.630	6.050	4.670	4.625
5 1/2	26.0	0.476	4.548	4.423	7.513	6.050	4.548	4.625
6 5/8	24.0	0.352	5.921	5.796	6.937	7.390	5.921	4.813
6 5/8	28.0	0.417	5.791	5.666	8.133	7.390	5.791	4.813
6 5/8	32.0	0.475	5.675	5.550	9.177	7.390	5.675	4.813
7	23.0	0.317	6.366	6.250	6.655	7.656	6.366	5.000
7	26.0	0.362	6.276	6.151	7.549	7.656	6.276	5.000
7	29.0	0.408	6.184	6.059	8.449	7.656	6.184	5.000
7	32.0	0.453	6.094	6.000	9.317	7.656	6.094	5.000
7	35.0	0.498	6.004	5.879	10.172	7.656	6.004	5.000
7	38.0	0.540	5.920	5.795	10.959	7.656	5.920	5.000
7 5/8	26.4	0.328	6.969	6.844	7.519	8.500	6.969	5.188
7 5/8	29.7	0.375	6.875	6.750	8.541	8.500	6.875	5.188
7 5/8	33.7	0.430	6.765	6.640	9.720	8.500	6.765	5.188
7 5/8	39.0	0.500	6.625	6.500	11.192	8.500	6.625	5.188
7 5/8	42.8	0.562	6.501	6.376	12.470	8.500	6.501	5.188
7 5/8	45.3	0.595	6.435	6.310	13.141	8.500	6.435	5.188
7 5/8	47.1	0.625	6.375	6.250	13.744	8.500	6.375	5.188
8 5/8	32.0	0.352	7.921	7.796	9.149	9.625	7.921	5.313
8 5/8	36.0	0.400	7.825	7.700	10.336	9.625	7.825	5.313
8 5/8	40.0	0.450	7.725	7.625	11.557	9.625	7.725	5.313
8 5/8	44.0	0.500	7.625	7.500	12.763	9.625	7.625	5.313
8 5/8	49.0	0.557	7.511	7.386	14.118	9.625	7.511	5.313
9 5/8	36.0	0.352	8.921	8.765	10.254	10.625	8.921	5.313
9 5/8	40.0	0.395	8.835	8.750	11.454	10.625	8.835	5.313
9 5/8	43.5	0.435	8.755	8.599	12.559	10.625	8.755	5.313
9 5/8	47.0	0.472	8.681	8.625	13.572	10.625	8.681	5.313
9 5/8	53.5	0.545	8.535	8.500	15.546	10.625	8.535	5.313
9 5/8	58.4	0.595	8.435	8.279	16.879	10.625	8.435	5.313
10 3/4	45.5	0.400	9.950	9.794	13.006	11.750	9.950	5.313
10 3/4	51.0	0.450	9.850	9.694	14.561	11.750	9.850	5.313
10 3/4	55.5	0.495	9.760	9.604	15.947	11.750	9.760	5.313
10 3/4	60.7	0.545	9.660	9.625	17.473	11.750	9.660	5.313
10 3/4	65.7	0.595	9.560	9.404	18.982	11.750	9.560	5.313
11 3/4	47.0	0.375	11.000	10.844	13.401	12.750	11.000	5.313
11 3/4	54.0	0.435	10.880	10.724	15.463	12.750	10.880	5.313
11 3/4	60.0	0.489	10.772	10.625	17.300	12.750	10.772	5.313
11 3/4	65.0	0.534	10.682	10.526	18.816	12.750	10.682	5.313
11 3/4	71.0	0.582	10.586	10.430	20.420	12.750	10.586	5.313
13 3/8	61.0	0.430	12.515	12.359	17.487	14.375	12.515	5.313
13 3/8	68.0	0.480	12.415	12.259	19.445	14.375	12.415	5.313
13 3/8	72.0	0.514	12.347	12.250	21.768	14.375	12.347	5.313

USS-CDC™ tensile joint strength calculations are based on equations in API Bulletin 5C3. Reference depth calculations were based on connection tensile joint strength, nominal weight in air and a design factor. These values are provided for reference only. Bending, buoyancy, temperature and other factors are not included. Tubular design should use an appropriate design factor. Connection yield torque is based on material minimum yield strength. High collapse grades have same yield torques as corresponding minimum yield strength. All USS-CDC™ connections are interchangeable with other weights of the same outside diameter. Slight inside diameter mismatch will occur. Contact U. S. Steel Tubular Products to receive information for sizes and grades not listed.

80 KSI Connection			100 KSI Connection			110 KSI Connection			125 KSI Connection		
Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque
1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs
262	16630	7000	307	19490	7600	347	22030	7800	378	24000	8200
291	16710	7800	341	19590	8400	385	22140	8800	420	24140	9300
334	16500	8800	392	19340	9800	443	21860	10300	482	23810	11000
384	16950	10000	450	19870	11300	509	22450	11900	554	24450	12900
379	16850	9600	445	19780	10800	503	22340	11400	548	24360	12200
457	16930	11800	537	19880	13500	606	22450	14300	661	24480	15600
510	15880	14100	590	18390	16300	671	20890	17500	724	22570	19200
510	14650	15300	590	16960	17800	671	19270	19100	724	20810	21000
389	16730	8600	458	19700	9800	517	22240	10400	564	24260	11200
428	16780	10800	503	19730	12300	568	22270	13000	620	24300	14100
503	16750	13100	591	19690	15100	667	22230	16100	728	24260	17600
550	15950	15200	637	18470	17700	724	20990	19000	782	22670	20900
550	14100	17400	637	16330	20500	724	18560	22100	782	20050	24400
592	16430	15800	698	19380	18500	786	21850	19800	860	23890	21800
693	16510	19600	818	19470	23200	922	21950	25000	1008	24010	27700
783	16300	22800	923	19230	27300	1040	21680	29500	1138	23710	32900
565	16390	14200	668	19350	16500	752	21800	17600	823	23860	19300
641	16440	17200	757	19410	20200	853	21880	21800	934	23940	24000
718	16500	20200	847	19480	24000	955	21950	25900	1045	24020	28800
791	16490	23100	934	19470	27600	1053	21940	29900	1152	24010	33300
833	15870	25900	964	18360	31200	1096	20880	33800	1183	22530	37700
833	14610	28500	964	16910	34400	1096	19230	37300	1183	20750	41700
635	16030	17100	751	18960	19800	845	21350	21200	926	23390	23300
721	16180	20900	853	19140	24600	960	21550	26400	1052	23620	29200
820	16230	25200	971	19200	30000	1093	21620	32400	1197	23690	36000
945	16150	30500	1118	19100	36700	1258	21510	39700	1379	23570	44300
1053	16400	35100	1245	19390	42400	1402	21840	46100	1536	23930	51500
1109	16320	37500	1312	19310	45400	1477	21740	49300	1619	23820	55200
1160	16420	39700	1362	19280	48100	1545	21870	52300	1672	23660	58600
764	15920	21900	907	18900	25800	1020	21250	27800	1120	23330	30800
864	15990	26900	1025	18970	32100	1152	21330	34700	1265	23430	38600
966	16090	32000	1146	19090	38400	1288	21470	41700	1415	23580	46600
1066	16160	36900	1265	19170	44700	1423	21560	48600	1562	23670	54400
1180	16050	42500	1400	19040	51600	1574	21410	56200	1728	23510	63100
848	15700	25300	1009	18690	30100	1133	20980	32500	1247	23090	36100
947	15780	30900	1127	18780	37200	1266	21100	40300	1393	23210	45000
1038	15910	36100	1236	18940	43600	1388	21270	47400	1527	23400	53100
1122	15920	40900	1336	18950	49600	1500	21270	53900	1650	23410	60500
1286	16020	50000	1530	19070	61000	1718	21410	66500	1890	23560	78400
1396	15930	56100	1661	18960	68700	1865	21290	74900	2052	23430	84300
1063	15580	38800	1269	18590	46600	1423	20850	50500	1570	23000	56300
1190	15550	47000	1421	18580	56800	1594	20830	61700	1758	22970	69100
1303	15650	54200	1556	18690	65900	1745	20960	71700	1925	23120	80500
1428	15680	62200	1705	18730	75800	1912	21000	82700	2109	23160	92900
1551	15740	70000	1853	18800	85600	2077	21080	93400	2291	23250	105100
1084	15380	39100	1298	18410	47000	1454	20620	50900	1607	22790	56800
1250	15430	51000	1498	18490	61900	1677	20700	67300	1854	22890	75500
1399	15540	61600	1676	18620	75100	1877	20850	81900	2074	23050	92000
1521	15600	70300	1823	18700	86000	2041	20940	93800	2256	23140	105600
1651	15500	79400	1978	18570	97400	2215	20800	106400	2448	22990	119900
1389	15180	60900	1674	18300	74300	1870	20440	81000	2074	22670	91000
1545	15150	73900	1861	18250	90500	2079	20390	98800	2306	22610	111200
1661	15380	82600	2077	19230	101300	2284	21150	110700	2596	24040	124800

CONNECTIONS

USS-CDC HTQ™

Pipe Size OD	Nominal Weight	Wall Thickness	Nominal ID	Drift Diameter	Nominal Pipe Body Area	Coupling OD	Connection ID	Makeup Loss
in.	lbs/ft	in.	in.	in.	in. ²	in.	in.	in.
4 1/2	10.5	0.224	4.052	3.927	3.009	5.250	4.052	4.437
4 1/2	11.6	0.250	4.000	3.875	3.338	5.250	4.000	4.437
4 1/2	13.5	0.290	3.920	3.795	3.836	5.250	3.920	4.437
4 1/2	15.1	0.337	3.826	3.701	4.407	5.250	3.826	4.437
5	13.0	0.253	4.494	4.369	3.773	5.775	4.494	4.563
5	15.0	0.296	4.408	4.283	4.374	5.775	4.408	4.563
5	18.0	0.362	4.276	4.151	5.275	5.775	4.276	4.563
5	21.4	0.437	4.126	4.001	6.264	5.775	4.126	4.563
5	23.2	0.478	4.044	3.919	6.791	5.775	4.044	4.563
5 1/2	15.5	0.275	4.950	4.825	4.514	6.300	4.950	4.625
5 1/2	17.0	0.304	4.892	4.767	4.962	6.300	4.892	4.625
5 1/2	20.0	0.361	4.778	4.653	5.828	6.300	4.778	4.625
5 1/2	23.0	0.415	4.670	4.545	6.630	6.300	4.670	4.625
5 1/2	26.0	0.476	4.548	4.423	7.513	6.300	4.548	4.625
6 5/8	24.0	0.352	5.921	5.796	6.937	7.475	5.921	4.813
6 5/8	28.0	0.417	5.791	5.666	8.133	7.475	5.791	4.813
6 5/8	32.0	0.475	5.675	5.550	9.177	7.475	5.675	4.813
7	20.0	0.272	6.456	6.331	5.749	7.875	6.456	5.000
7	23.0	0.317	6.366	6.250	6.655	7.875	6.366	5.000
7	26.0	0.362	6.276	6.151	7.549	7.875	6.276	5.000
7	29.0	0.408	6.184	6.059	8.449	7.875	6.184	5.000
7	32.0	0.453	6.094	6.000	9.317	7.875	6.094	5.000
7	35.0	0.498	6.004	5.879	10.172	7.875	6.004	5.000
7	38.0	0.540	5.920	5.795	10.959	7.875	5.920	5.000
7	41.0	0.590	5.820	5.695	11.881	7.875	5.820	5.000

USS-CDC HTQ™ tensile joint strength calculations are based on equations in API Bulletin 5C3. Reference depth calculations were based on connection tensile joint strength, nominal weight in air and a design factor. These values are provided for reference only. Bending, buoyancy, temperature and other factors are not included. Tubular design should use an appropriate design factor. Connection yield torque is based on material minimum yield strength. High collapse grades have same yield torques as corresponding minimum yield strength. All USS-CDC HTQ™ connections are interchangeable with other weights of the same outside diameter. Slight inside diameter mismatch will occur. Contact U. S. Steel Tubular Products to receive information for sizes and grades not listed.

80 KSI Connection			100 KSI Connection			110 KSI Connection			125 KSI Connection		
Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque	Joint Strength	Reference Depth DF=1.5	Connection Yield Torque
1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs	1000 lbs	ft	ft-lbs
262	16630	6400	307	19490	7300	347	22030	7700	378	24000	8400
291	16710	7900	341	19590	9100	385	22140	9600	420	24140	10500
334	16500	10100	392	19340	11700	443	21860	12400	482	23810	13600
384	16950	12500	450	19870	14500	509	22450	15500	554	24450	17000
327	16770	8600	384	19690	9900	434	22260	10600	473	24260	11600
379	16850	11600	445	19780	13400	503	22340	14300	548	24360	15700
457	16930	15700	537	19880	18300	606	22450	19600	661	24480	21600
543	16920	20100	637	19840	23500	720	22430	25300	785	24450	27700
589	16930	22100	691	19860	26000	780	22410	27900	851	24450	30900
389	16730	11600	458	19700	13500	517	22240	14500	564	24260	15900
428	16780	13900	503	19730	16200	568	22270	17400	620	24300	19200
503	16750	18100	591	19690	21300	667	22230	22900	728	24260	25300
572	16580	21900	672	19480	25900	759	22000	27800	828	24000	30800
648	16620	25900	762	19540	30600	860	22050	33000	938	24050	36600
592	16430	22800	698	19380	27100	786	21850	29300	860	23890	32500
693	16510	29400	818	19470	35200	922	21950	38000	1008	24010	42300
783	16300	35000	923	19230	41900	1040	21680	45400	1138	23710	50500
488	16270	14600	577	19230	17200	650	21670	18500	711	23700	20400
565	16390	20200	668	19350	24000	752	21800	25800	823	23860	28700
641	16440	25600	757	19410	30500	853	21880	32900	934	23940	36600
718	16500	30900	847	19480	36900	955	21950	39900	1045	24020	44400
791	16490	35800	934	19470	42900	1053	21940	46400	1152	24010	51700
864	16460	40600	1020	19430	48700	1150	21900	52700	1258	23970	58800
931	16330	44800	1099	19280	53800	1239	21730	58400	1356	23780	65100
1009	16410	49700	1192	19380	59800	1343	21840	64900	1470	23900	72500



Pipe processing at Lorain Tubular Operations in Ohio

OCTG PREMIUM SERVICES

U. S. Steel Oilwell Services offers a comprehensive range of OCTG Premium Services in addition to its industry-leading tubulars. Available services include API and premium threading and inspection, rig site services, licensed repair facilities and a host of proprietary tubing and casing accessories. A 150-acre facility provides secure storage for customer equipment, as well as a spacious staging area for rig preparation, well returns and pipe maintenance. With a unique ability to service projects from mill to well, U. S. Steel ensures reliable tubular solutions every time.



U. S. Steel Oilwell Services Offshore Operations Facility in Houston, Texas



USS-PATRIOT TC® premium connections

THREADING & INSPECTION SERVICES

U. S. Steel specializes in complex threading of OCTG. We provide API and premium threading, ranging in size from 3.5" to 20" tubing and casing threading. Tubing and casing threading services encompass bucking, torque turn, saw cutting and full-length drift. All threading services can be performed at U. S. Steel's state-of-the-art facility in Houston, Texas.

In addition, U. S. Steel Oilwell Services offers a wide range of OCTG inspection services at its Houston facility.

- Swaging and sizing
- Phosphating
- Pipe maintenance
- Secure storage with 24-hour access
- Export offshore packaging

RIG SITE SERVICES

U. S. Steel Oilwell Services offers technical support and on-site rig services around the clock. Whether service is scheduled or on an emergency basis, Rig Site Services responds 24/7/365. The U. S. Steel team is fully equipped to provide service and support at the rig site or at nearby facilities.

U. S. Steel Oilwell Services personnel possess the expertise, experience and equipment to help ensure the integrity of the product that is run downhole. Their knowledge of the full technical specifications and performance data for each product, as well as direct access to engineering and technical staff, provide peace of mind for customers worldwide. Services include:

- Assure correct running procedures are followed
- Visual inspection of connections
- Tools and training required to perform field repairs
- Knowledge of full technical specifications and performance data
- Direct contact with licensed repair facilities

U. S. Steel Oilwell Services
Rig Site Services
24 HR: 281-671-3815
rigsiteservices@uss.com

PRODUCT PROPERTIES

Product Quality Assurance

U. S. Steel Tubular Products are manufactured under a Quality System that demonstrates conformance to the American Petroleum Institute's Q1 Specification for Quality Programs for the Petroleum and Natural Gas Industry. Each U. S. Steel Tubular Products manufacturing facility has been audited by API and has been granted licenses to produce API-monogrammed 5CT and 5L products. In addition, U. S. Steel Tubular Products' casing and tubing facilities have been audited and certified as meeting the requirements of ISO-9001 by 3rd-party registrars, accredited by ANSI-ASQ National Accreditation Board (ANAB). These facilities provide a range of sizes that are among the widest offered to the oil and gas producing industries.



Finite Element Analysis performed at North American Commercial Operations and Innovation & Technology Center in Houston, Texas

PRODUCT PROPERTIES

Mechanical Properties – API and U. S. Steel Proprietary Oil Country Grades

Grades	Available in Seamless (S), ERW (E) or Both	Yield Strength (psi)		Tensile Strength Minimum (psi)	Maximum Hardness Requirement		Buttress Coupling (Next Higher Grade)
		Minimum	Maximum		Single (1)	Mean (3)	
H40	E & S	40,000	80,000	60,000	-	-	-
J55	E & S	55,000	80,000	75,000	-	-	L80
K55	E & S	55,000	80,000	95,000	-	-	L80
L80	E & S	80,000	95,000	95,000	23	23	-
L80 HC*	E & S	80,000	95,000	95,000	23	23	-
L80 HP*	E & S	85,000	95,000	95,000	23	23	-
N80Q	E & S	80,000	110,000	100,000	-	-	P110
N80 HC*	E & S	80,000	110,000	100,000	-	-	P110
N80 HP*	E & S	95,000	110,000	105,000	-	-	P110
N80 Type I	S	80,000	110,000	100,000	-	-	-
C90	S	90,000	105,000	100,000	27	25.4	-
R95	E & S	95,000	110,000	105,000	-	-	-
T95	S	95,000	110,000	105,000	27	25.4	-
C110	S	110,000	120,000	115,000	32	30	-
P110	E & S	110,000	140,000	125,000	-	-	Q125
P110 HC*	E & S	110,000	140,000	125,000	-	-	Q125
P110 HP*	E & S	125,000	140,000	130,000	-	-	Q125
P110 SR16	E & S	110,000	140,000	125,000	-	-	Q125
Q125	E & S	125,000	150,000	135,000	-	-	-
Q125 HC*	E & S	125,000	150,000	135,000	-	-	-
Q125 HP*	E & S	135,000	150,000	140,000	-	-	-
USS HCK55	E	55,000	95,000	95,000	21	21	-
USS GT80S	S	80,000	95,000	95,000	23	23	-
USS C90	S	90,000	105,000	105,000	26	24	-
USS SC90	S	90,000	105,000	105,000	26	24	-
USS C95	S	95,000	110,000	105,000	28	25	-
USS C100	S	100,000	115,000	110,000	28	28	-
USS RYS110	S	110,000	125,000	120,000	30	29	-
USS RYH110	E	110,000	125,000	120,000	32	31	-
USS C110	S	110,000	125,000	120,000	30	30	-
USS 140	S	140,000	170,000	150,000	-	-	-
USS V150	S	150,000	180,000	160,000	-	-	-

* These grades meet API standards for the base product. They bear the API monogram and they additionally have enhanced performance properties.

MECHANICAL PROPERTIES OF API AND U. S. STEEL PROPRIETARY OCTG GRADES

API H40

Minimum Yield Strength: 40,000 psi
Maximum Yield Strength: 80,000 psi
Minimum Tensile Strength: 60,000 psi
Maximum Hardness: None

General purpose pipe manufactured to API specification 5CT.

API J55

Minimum Yield Strength: 55,000 psi
Maximum Yield Strength: 80,000 psi
Minimum Tensile Strength: 75,000 psi
Maximum Hardness: None

General purpose pipe manufactured to API specification 5CT. Similar to K55 except the minimum tensile strength is lower.

API K55

Minimum Yield Strength: 55,000 psi
Maximum Yield Strength: 80,000 psi
Minimum Tensile Strength: 95,000 psi
Maximum Hardness: None

General purpose pipe manufactured to API specification 5CT. Usually, this grade is used in casing applications.

API L80

Minimum Yield Strength: 80,000 psi
Maximum Yield Strength: 95,000 psi
Minimum Tensile Strength: 95,000 psi
Maximum Hardness: 23.0 HRC

Manufactured to API specification 5CT. This is a controlled yield strength material with a hardness testing requirement. L80 is often used in wells with sour (H_2S) environments.

L80 HC

Minimum Yield Strength: 80,000 psi
Maximum Yield Strength: 95,000 psi
Minimum Tensile Strength: 95,000 psi
Maximum Hardness: 23.0 HRC

Manufactured to API specification 5CT. This is a controlled yield strength product with demonstrated collapse resistance exceeding the minimum values for standard API L80.

L80 HP

Minimum Yield Strength: 85,000 psi
Maximum Yield Strength: 95,000 psi
Minimum Tensile Strength: 95,000 psi
Maximum Hardness: 23.0 HRC

Manufactured to API specification 5CT. This is a controlled yield strength product with the highest demonstrated collapse resistance and with the added benefit of a higher than minimum internal yield pressure than standard API L80.

API N80Q

Minimum Yield Strength: 80,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 100,000 psi
Maximum Hardness: None

General purpose pipe manufactured to API specification 5CT using a quench and temper process.

N80 HC

Minimum Yield Strength: 80,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 100,000 psi
Maximum Hardness: None

Manufactured to API specification 5CT. This is a product with a demonstrated collapse resistance exceeding the minimum values for standard API N80.

N80 HP

Minimum Yield Strength: 95,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 105,000 psi
Maximum Hardness: None

Manufactured to API specification 5CT. This is a product with the highest demonstrated collapse resistance exceeding the minimum internal yield pressure for standard API N80.

PRODUCT PROPERTIES

API N80 Type I

Minimum Yield Strength: 80,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 100,000 psi
Maximum Hardness: None

A lower cost alternative to standard Quench and Tempered API N80 (walls less than 0.500 inch). Charpy V-notch impact test absorbed energy results meet API SR16 and are lower than quenched-and-tempered N80.

API C90

Minimum Yield Strength: 90,000 psi
Maximum Yield Strength: 105,000 psi
Minimum Tensile Strength: 100,000 psi
Maximum Hardness: 25.4 HRC mean [27.0 HRC individual]

API controlled yield strength grade generally for use in sour condensate wells. Extensive hardness testing is required along with Sulfide Stress Corrosion Cracking (SSCC) testing per NACE Standard TM-0177, Method A. The minimum threshold stress required is 80% of specified minimum yield strength.

API R95

Minimum Yield Strength: 95,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 105,000 psi
Maximum Hardness: None

API grade with the same strength range as T95 and USS C95, but without a hardness requirement. This grade is not generally considered for use in sour condensate wells since no hardness restrictions or testing are required and no Sulfide Stress Corrosion Cracking (SSCC) testing is required.

API T95

Minimum Yield Strength: 95,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 105,000 psi
Maximum Hardness: 25.4 HRC mean [27.0 HRC individual]

API controlled yield strength grade, the same as API C95 and USS C95. Generally for use in sour condensate wells. Extensive hardness testing is required along with Sulfide Stress Corrosion Cracking (SSCC) testing per NACE Standard TM-0177, Method A. The minimum threshold stress required is 80% of specified minimum yield strength.

API P110

Minimum Yield Strength: 110,000 psi
Maximum Yield Strength: 140,000 psi
Minimum Tensile Strength: 125,000 psi
Maximum Hardness: None

API grade for general use in deep wells. This grade is not generally considered suitable for sour condensate wells.

P110 HC

Minimum Yield Strength: 110,000 psi
Maximum Yield Strength: 140,000 psi
Minimum Tensile Strength: 125,000 psi
Maximum Hardness: None

Manufactured to API specification 5CT. This is a product with a demonstrated collapse resistance exceeding the minimum values for standard API P110.

P110 HP

Minimum Yield Strength: 125,000 psi
Maximum Yield Strength: 140,000 psi
Minimum Tensile Strength: 130,000 psi
Maximum Hardness: None

Manufactured to API specification 5CT. This is a product with the highest demonstrated collapse resistance exceeding the minimum internal yield pressure for standard API P110.

API C110

Minimum Yield Strength: 110,000 psi
Maximum Yield Strength: 120,000 psi
Minimum Tensile Strength: 115,000 psi
Maximum Hardness: 30.0 HRC mean [32.0 HRC individual]

A controlled yield strength grade generally used in deeper sour condensate wells. Sulfide Stress Corrosion Cracking (SSCC) testing is required for each heat to meet a threshold stress of 85% of specified minimum yield strength.

API Q125

Minimum Yield Strength: 125,000 psi
Maximum Yield Strength: 150,000 psi
Minimum Tensile Strength: 135,000 psi
Maximum Hardness: No limit specified – hardness variation requirement

API grade for deep well service, not generally for use in sour condensate wells. Quadrant hardness testing is required without any specified limits other than the variation between readings. Impact testing is required for each heat and/or lot. NDT inspection is required with two methods of inspection; typically EMI and UT are performed on this product.

Q125 HC

Minimum Yield Strength: 125,000 psi
Maximum Yield Strength: 150,000 psi
Minimum Tensile Strength: 135,000 psi
Maximum Hardness: No limit specified – hardness variation requirement

Manufactured to API specification 5CT. This is a product with a demonstrated collapse resistance exceeding the minimum values for standard API Q125.

Q125 HP

Minimum Yield Strength: 135,000 psi
Maximum Yield Strength: 150,000 psi
Minimum Tensile Strength: 140,000 psi
Maximum Hardness: No limit specified – hardness variation requirement

Manufactured to API specification 5CT. This is a product with the highest demonstrated collapse resistance exceeding the minimum internal yield pressure for standard API Q125.

USS HCK55

Minimum Yield Strength: 55,000 psi
Maximum Yield Strength: 95,000 psi
Minimum Tensile Strength: 95,000 psi
Maximum Hardness: 21.0 HRC

An ERW hot-finished proprietary U. S. Steel casing grade for "High Collapse" K55 applications. Inspections are the same as for API K55 with through-wall hardness testing on each yield-tensile test. Collapse testing is required for each run on the first, middle and last heat.

USS GT80S

Minimum Yield Strength: 80,000 psi
Maximum Yield Strength: 95,000 psi
Minimum Tensile Strength: 95,000 psi
Maximum Hardness: 23.0 HRC

A proprietary controlled yield strength U. S. Steel grade generally for use in severe sour service wells. Inspection, testing and dimensions are in accordance with API L80. NACE [SSC], Method A, qualification testing is specified at a threshold stress of 90% of specified minimum yield strength. API C90 couplings are used on threaded and coupled products.

USS C90

Minimum Yield Strength: 90,000 psi
Maximum Yield Strength: 105,000 psi
Minimum Tensile Strength: 100,000 psi
Maximum Hardness: 24.0 HRC mean [26.0 HRC individual]

A proprietary restricted yield strength U. S. Steel grade for use in sour condensate wells. Resistance to sulfide stress cracking is achieved by precise controls of chemical composition, heat treatment and hardness levels. Inspection requirements and dimensional tolerances are in accordance with API 5CT for grade C90. Performance properties are the same as for API grade C90. Hardness testing is conducted as required for API C90, with the exception of frequency [casing and non-upset tubing – first and last and every tenth joint in between; upset tubing – first and last and every 25th joint in between]. To reduce order lead time, Sulfide Stress Corrosion Cracking (SSCC) testing is not required for every order. If required by the customer, SSCC testing can be performed to U. S. Steel Standard Mill Practice P-1004 [NACE Standard TM-0177, Method A] with a guaranteed minimum threshold stress of 85% of specified minimum yield strength.

USS SC90

Minimum Yield Strength: 90,000 psi
Maximum Yield Strength: 105,000 psi
Minimum Tensile Strength: 100,000 psi
Maximum Hardness: 24.0 HRC mean [26.0 HRC individual]

A proprietary restricted yield strength U. S. Steel grade for use in sour condensate wells. This product is the same as USS C90 except impact testing is required and hardness testing is done on each end of each joint for casing and non-upset tubing.

PRODUCT PROPERTIES

USS C95

Minimum Yield Strength: 95,000 psi
Maximum Yield Strength: 110,000 psi
Minimum Tensile Strength: 105,000 psi
Maximum Hardness: 25.0 HRC mean
(28.0 HRC individual)

Proprietary restricted yield strength U. S. Steel grade for use in sour condensate wells. Resistance to sulfide stress cracking is achieved by precise controls of chemical composition, heat treatment and hardness levels. Inspection requirements and dimensional tolerances are in accordance with API 5CT for grade T95. Performance properties are the same as for API grade T95. Hardness testing is conducted as required for API T95, with the exception of frequency (casing and non-upset tubing first and last and every tenth joint in between; upset tubing – first and last and every 25th joint between. To reduce order lead time, Sulfide Stress Corrosion Cracking (SSCC) testing is not required for every order. If required by the customer, SSCC testing can be performed to U. S. Steel Standard Mill Practice P-1004 (NACE Standard TM-0177, Method A) with a guaranteed minimum threshold stress of 85% of specified minimum yield strength.

USS C100

Minimum Yield Strength: 100,000 psi
Maximum Yield Strength: 115,000 psi
Minimum Tensile Strength: 110,000 psi
Maximum Hardness: 28.0 HRC

A proprietary controlled yield strength U. S. Steel grade generally for use in deep sour service wells. Inspection, testing and dimensions are in accordance with API 5CT C90 and T95. NACE (SSC), Method A, testing is specified at a threshold stress of 85% of specified minimum yield strength.

USS RYS110

Minimum Yield Strength: 110,000 psi
Maximum Yield Strength: 125,000 psi
Minimum Tensile Strength: 120,000 psi
Maximum Hardness: 29.0 HRC mean
(30.0 HRC individual)

A proprietary restricted yield strength U. S. Steel grade for use in sour condensate wells. Resistance to sulfide stress cracking is achieved by precise controls of chemical composition, heat treatment and hardness levels. Inspection requirements and dimensional tolerances are in accordance with API 5CT for grade P110 PSL 1. Performance properties are the same as for API grade C110. One quadrant through-wall hardness testing is performed at a frequency of two per 100 pieces per heat lot. To reduce order lead time, Sulfide Stress Corrosion Cracking (SSCC) testing is not required for every order. If required by the customer, SSCC testing can be performed to U. S. Steel Standard Mill Practice M-1041 with a guaranteed minimum threshold stress of 80% specified minimum yield strength in 7% H₂S NACE A solution (Method A) or 26 klssc-sqrt-inch in full H₂S NACE A solution (Method D).

USS RYH110

Minimum Yield Strength: 110,000 psi
Maximum Yield Strength: 125,000 psi
Minimum Tensile Strength: 120,000 psi
Maximum Hardness: 31.0 HRC mean
(32.0 HRC individual)

An ERW proprietary restricted yield strength grade for general use in deep wells. This product is not generally considered suitable for sour condensate wells. Restricted yield strength and hardness are achieved by precise controls of chemical composition, heat treatment and hardness levels. Inspection requirements and dimensional tolerances are in accordance with API 5CT for grade P110 PSL 1. One quadrant through-wall hardness testing is performed at a frequency of two per 100 pieces per heat lot. Couplings are seamless USS RYS110 grade. The product's performance properties are the same as for grade USS RYS110 (see Casing Tables).

USS C110

Minimum Yield Strength: 110,000 psi
Maximum Yield Strength: 125,000 psi
Minimum Tensile Strength: 120,000 psi
Maximum Hardness: 30.0 HRC mean
(30.0 HRC individual)

A proprietary controlled yield strength U. S. Steel grade generally for use in deeper sour condensate wells. Inspection, testing and dimensions are in accordance with API T95. Sulfide Stress Corrosion Cracking (SSCC) testing is required for each heat to meet a threshold stress of 85% of specified minimum yield strength.

USS 140

Minimum Yield Strength: 140,000 psi
Maximum Yield Strength: 170,000 psi
Minimum Tensile Strength: 150,000 psi
Maximum Hardness: None

Proprietary U. S. Steel grade for use in deep well applications. Dimensions and inspection are in accordance with API 5CT Group 3 requirements.

USS V150

Minimum Yield Strength: 150,000 psi
Maximum Yield Strength: 180,000 psi
Minimum Tensile Strength: 160,000 psi
Maximum Hardness: None

Proprietary U. S. Steel grade for use in deep well applications. Dimensions and inspection are in accordance with API 5CT Group 3 requirements.

TESTING & INSPECTION

Testing and inspection are done to detect or measure the significant properties and, by inference, performance capabilities of the product. Such tests include tensile, hardness, collapse and non-destructive testing.

Testing Requirements *[USS proprietary grades are based on USS Material Standards. All other grades are based on API Specification 5CT Ninth Edition, July 2011, PSL 1.]*

Grade	Process	Tensile	Hardness	CVN Impacts		SSC	Other Tests ¹
				Pipe	Couplings		
H40	As-Rolled	Yes	None	No	No	No	
J55	As-Rolled	Yes	None	Yes ²	Yes	No	
K55	As-Rolled	Yes	None	Yes ²	Yes	No	
L80	Q&T	Yes	Yes	Yes ²	Yes	No	Hardenability
L80 HC	Q&T	Yes	Yes	Yes ²	Yes	No	Hardenability, Collapse
L80 HP	Q&T	Yes	Yes	Yes ²	Yes	No	Hardenability, Collapse
N80Q	Q&T	Yes	None	Yes ²	Yes	No	Hardenability
N80 HC	Q&T	Yes	None	Yes ²	Yes	No	Hardenability, Collapse
N80 HP	Q&T	Yes	None	Yes ²	Yes	No	Hardenability, Collapse
N80 Type 1	Normalized	Yes	None	Yes ²	Yes	No	Hardenability
C90	Q&T	Yes	Yes	Yes ²	Yes	Yes	Hardenability, Grain Size
R95	Q&T	Yes	None	Yes ²	Yes	No	Hardenability
T95	Q&T	Yes	Yes	Yes ²	Yes	Yes	Hardenability, Grain Size
C110	Q&T	Yes	Yes	Yes ²	Yes	Yes	Hardenability, Grain Size
P110	Q&T	Yes	None	Yes ²	Yes	No	Hardenability
P110 HC	Q&T	Yes	None	Yes ²	Yes	No	Hardenability, Collapse
P110 HP	Q&T	Yes	None	Yes ²	Yes	No	Hardenability, Collapse
P110 SR16	Q&T	Yes	None	Yes	Yes	No	Hardenability
Q125	Q&T	Yes	Yes	Yes	Yes	No	Hardenability
Q125 HC	Q&T	Yes	Yes	Yes	Yes	No	Hardenability, Collapse
Q125 HP	Q&T	Yes	Yes	Yes	Yes	No	Hardenability, Collapse
USS HCK55	As-Rolled	Yes	Yes	Yes ²	Yes	No	Collapse
USS GT80S	Q&T	Yes	Yes	Yes ²	Yes	Yes ³	Hardenability
USS C90	Q&T	Yes	Yes	Yes ²	Yes	Yes ³	Hardenability, Grain Size
USS SC90	Q&T	Yes	Yes	Yes ²	Yes	Yes ³	Hardenability, Grain Size
USS C95	Q&T	Yes	Yes	Yes ²	Yes	Yes ³	Hardenability, Grain Size
USS C100	Q&T	Yes	Yes	Yes ²	Yes	Yes	Hardenability, Grain Size
USS RYS110	Q&T	Yes	Yes	Yes ²	Yes	Yes ³	Hardenability
USS RYH110	Q&T	Yes	Yes	Yes ²	Yes	No	Hardenability
USS C110	Q&T	Yes	Yes	Yes ²	Yes	Yes ³	Hardenability, Grain Size
USS 140	Q&T	Yes	None	No	No	No	Hardenability
USS V150	Q&T	Yes	None	No	No	No	Hardenability

1. Based on PSL 1 requirements, which require chemistry, hydrotest and drift testing of all casing and tubing grades.

2. Process may be qualified. Impact testing is not mandatory on a heat or lot basis unless SR16 is specified.

3. Process may be qualified. SSC testing is not mandatory on a heat or lot basis.

PRODUCT PROPERTIES

Required Inspections

[Non-Destructive Testing – NDT]

Grade	Type of Inspection (other than visual)	Surfaces Inspected	Required Orientation	Calibration Notch Sensitivity % of Specified Wall Thickness
H40, J55, K55, N80, Type1 USS HCK55	EMI Upgrade (API is visual only)	OD	L	12.5
L80, L80 HC, L80 HP, N80Q, N80 HC, N80 HP, R95, USS GT80S	EMI, UT, MPI	OD and ID	L	12.5
C90, T95, C110, Q125, USS C90, USS SC90, USS C95, USS C100, USS C110	UT and EMI or MPI	OD and ID	L & T	5
P110, P110 HC, P110 HP, USS RYS110, USS 140, USS V150	EMI and/or UT	OD and ID	L & T	5
P110 SR16	EMI and/or UT	OD and ID	L & T	12.5

USS proprietary grades are based on USS Material Standards. All other grades are based on API Specification 5CT Ninth Edition, July 2011, PSL 1.

CASING AND TUBING SPECIFICATIONS BY GRADE

H40 has PSL 1 requirements only.

J55 and K55

PSL 2	5CT References	PSL 3	5CT References
All PSL 1 plus the following		All PSL 2 plus the following	
Full-body, full-length heat treatment (after upsetting if applicable)	H.2.1 J.2.1.1	Wall thickness measurement with 100% coverage, report minimum wall thickness	H.17.2 J.2.2.1
Mandatory Charpy V-notch impact testing and requirements (according to A.10 SR16)	A.10 SR16 H.6.2.1 J.2.1.2	NDE for longitudinal and transverse, internal and external defects to acceptance level L2 (no MPI)	H.18.1.4 J.2.2.2
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.2.1.3	NDE of pipe ends after end finishing	H.18.3 J.2.2.3
Seal ring groove machining and tolerances	H.11 J.2.1.4		
ERW Only: Metallographic examination of the weld zone	H.15 J.2.1.5		
Alternative test pressures for ODs larger than 9-5/8	H.16 J.2.1.6		
Wall thickness measurement with 25% coverage	H.17.1 J.2.1.7		
Non-destructive testing for longitudinal internal and external defects to acceptance level L4	H.18.1.1 J.2.1.8		
K55 only: Ultrasonic testing of the weld seam after hydrotest	H.18.2 J.2.1.9		
Certification to A.9 SR15 (with heat and lot traceability)	A.9 SR15 H.19 J.2.1.10		
Seal ring to be shipped separately	H.20 J.2.1.11		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

PRODUCT PROPERTIES

N80 Type I and N80Q*

PSL 2	5CT References	PSL 3 (N80Q only)	5CT References
All PSL 1 plus the following		All PSL 2 plus the following	
Charpy V-notch impact shear area minimum of 75%	H.6.1 J.4.1.1	Only grade N80Q shall be furnished	H.2.2 J.4.2.1
Mandatory Charpy V-notch impact testing and requirements (according to A.10 SR16)	H.6.2.1 J.4.1.2	Process control plan or surface hardness test of each pipe body, upset end and coupling	H.14.1 J.4.2.2
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.4.1.3	Wall thickness measurement with 100% coverage, report the minimum wall thickness	H.17.2 J.4.2.3
Seal ring groove machining and tolerances	H.11 J.4.1.4	NDE: mandatory ultrasonic test plus one other method	H.18.1.5 J.4.2.4
Tensile test frequency same as Grade L80	H.13 J.4.1.5	NDE of pipe ends after end finishing	H.18.3 J.4.2.5
ERW only: Metallographic examination of the weld zone	H.15 J.4.1.6	NDE of coupling stock	H.18.5 J.4.2.6
Wall thickness measurement with 25% coverage	H.17.1 J.4.1.7		
Non-destructive testing for longitudinal and transverse, internal and external defects to acceptance level L3 (no MPI)	H.18.1.2 J.4.1.8		
Certification to A.9 SR15 (with heat and lot traceability)	H.19 J.4.1.9		
Seal ring to be shipped separately	H.20 J.4.1.10		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

*Includes HC and HP designated products

L80*

PSL 2	SCT References	PSL 3	SCT References
All PSL 1 plus the following		All PSL 2 plus the following	
Charpy V-notch impact shear area minimum of 75%	H.6.1 J.5.1.1	Surface hardness test of each pipe body, upset end and coupling	H.14.1 J.5.2.1
Mandatory Charpy V-notch impact testing and requirements (according to A.10 SR16)	A.10 SR16 H.6.2.1 J.5.1.2	Wall thickness measurement with 100% coverage, report the minimum wall thickness	H.17.2 J.5.2.2
Minimum Martensite content of 90% (based on a minimum Rockwell C-scale hardness for an as quenched sample)	H.7.1 J.5.1.3	NDE: mandatory ultrasonic test plus one other method	H.18.1.5 J.5.2.3
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.5.1.4	NDE of pipe ends after end finishing	H.18.3 J.5.2.4
Seal ring groove machining and tolerances	H.11 J.5.1.5	NDE of coupling stock	H.18.5 J.5.2.5
ERW Only: Metallographic examination of the weld zone	H.15 J.5.1.6		
Wall thickness measurement with 25% coverage	H.17.1 J.5.1.7		
Non-destructive testing for longitudinal and transverse, internal and external defects to acceptance level L2	H.18.1.3 J.5.1.8		
Non-destructive testing of coupling stock sold as coupling stock	H.18.4 J.5.1.9		
Certification to A.9 SR15 (with heat and lot traceability)	H.19 J.5.1.10		
Seal ring to be shipped separately	H.20 J.5.1.11		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

*Includes HC and HP designated products

PRODUCT PROPERTIES

C90 and T95

PSL 2	5CT References	PSL 3	5CT References
All PSL 1 plus the following		All PSL 2 plus the following	
Hot straightening requirement with a minimum temperature or cold straightening followed by stress relief	H.3.1 J.7.1.1	Information on chemical composition	H.4.2 J.7.2.1
Charpy V-notch impact shear area minimum of 75%	H.6.1 J.7.1.2	Minimum Martensite content of 95% (based on a minimum Rockwell C-scale hardness for an as quenched sample)	H.7.2 J.7.2.2
Mandatory Charpy V-notch impact testing and requirements (according to A.10 SR16)	H.6.2.1 J.7.1.3	SSCC test: for ANSI-NACE TM0177-2005 Method A, test three pipes per heat at an applied stress of 90% of the specified minimum yield stress	H.9.1 J.7.2.3
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.7.1.4	Through-wall hardness test of both ends of each pipe	H.14.2 J.7.2.4
Seal ring groove machining and tolerances	H.11 J.7.1.5	Wall thickness measurement with 100% coverage, report the minimum wall thickness	H.17.2 J.7.2.5
Wall thickness measurement with 25% coverage	H.17.1 J.7.1.6	NDE of pipe ends after end finishing	H.18.3 J.7.2.6
NDE of coupling stock sold as coupling stock	H.18.4 J.7.1.7	NDE of coupling stock	H.18.5 J.7.2.7
Certification to A.9 SR15 (with heat and lot traceability)	H.19 J.7.1.8		
Seal ring to be shipped separately	H.20 J.7.1.9		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

R95

PSL 2	SCT References	PSL 3	SCT References
All PSL 1 plus the following		All PSL 2 plus the following	
Hot straightening requirement with a minimum temperature or cold straightening followed by stress relief	H.3.2 J.8.1.1	Surface hardness test of each pipe body, upset end and coupling	H.14.1 J.8.2.1
Charpy V-notch impact shear area minimum of 75%	H.6.1 J.8.1.2	Wall thickness measurement with 100% coverage, report the minimum wall thickness thickness	H.17.2 J.8.2.2
Mandatory Charpy V-notch impact testing and requirements (according to A.10 SR16)	A.10 SR16 H.6.2.1 J.8.1.3	NDE: mandatory ultrasonic test plus one other method	H.18.1.5 J.8.2.3
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.8.1.4	NDE of pipe ends after end finishing	H.18.3 J.8.2.4
Seal ring groove machining and tolerances	H.11 J.8.1.5	NDE of coupling stock	H.18.5 J.8.2.5
ERW Only: Metallographic examination of the weld zone	H.15 J.8.1.6		
Wall thickness measurement with 25% coverage	H.17 J.8.1.7		
NDE for longitudinal and transverse, internal and external defects to acceptance level L4	H.18.1.3 J.8.1.8		
NDE of coupling stock sold as coupling stock	H.18.4 J.8.1.9		
Certification to A.9 SR15 (with heat and lot traceability)	H.19 J.8.1.10		
Seal ring to be shipped separately	H.20 J.8.1.11		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

PRODUCT PROPERTIES

P110*

PSL 2	5CT References	PSL 3	5CT References
All PSL 1 plus the following		All PSL 2 plus the following	
Hot straightening requirement with a minimum temperature or cold straightening followed by stress relief	H.3.2 J.9.1.1	Surface hardness test of each pipe body, upset end and coupling	H.14.1 J.9.2.1
Charpy V-notch impact shear area minimum of 75%	H.6.1 J.9.1.2	Wall thickness measurement with 100% coverage, report the minimum wall thickness	H.17.2 J.9.2.2
Mandatory Charpy V-notch impact testing and requirements (according to A.10 SR16)	H.6.2.1 J.9.1.3	NDE: mandatory ultrasonic test plus one other method	H.18.1.5 J.9.2.3
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.9.1.4	NDE of pipe ends after end finishing	H.18.3 J.9.2.4
Seal ring groove machining and tolerances	H.11 J.9.1.5	NDE of coupling stock	H.18.5 J.9.2.5
Wall thickness measurement with 25% coverage	H.17.1 J.9.1.6		
NDE of coupling stock sold as coupling stock	H.18.4 J.9.1.7		
Certification to A.9 SR15 (with heat and lot traceability)	H.19 J.9.1.8		
Seal ring to be shipped separately	H.20 J.9.1.9		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

*Includes HC and HP designated products

Q125*

PSL 2	5CT References	PSL 3	5CT References
All PSL 1 plus the following		All PSL 2 plus the following	
Charpy V-notch impact shear area minimum of 75%	H.6.1 J.10.1.1	Maximum yield strength of 965 MPa [140 ksi] is specified	H.5 J.10.2.1
Statistical impact testing according to A.7 SR 12	H.6.2.2 J.10.1.2	Surface hardness test of each pipe body, upset and coupling	H.14.1 J.10.2.2
No product susceptible to having material detach during make-up (appropriate processing or abrasive blasting)	H.10 H.12 J.10.1.3	Wall thickness measurement with 100% coverage, report the minimum wall thickness	H.14.2 J.10.2.3
Seal ring groove machining and tolerances	H.11 J.10.1.4	NDE of pipe ends after end finishing	H.18.3 J.10.2.4
Wall thickness measurement with 25% coverage	H.17.1 J.10.1.5	NDE of coupling stock	H.18.5 J.10.2.5
NDE of coupling stock sold as coupling stock	H.18.4 J.10.1.6		
Seal ring to be shipped separately	H.20 J.10.1.7		

PSL 2 and PSL 3 requirements refer to API Specification 5CT, Ninth Edition, July 2011.

*Includes HC and HP designated products



U. S. Steel Tubular Products pipe with USS-CDC™ connections

TUBING AND CASING TABLES

All listed values for performance properties assume a benign environment and material properties conforming to API Specification 5CT. Other environments may require additional analyses by the user, such as that outlined in informative Annex D of API Technical Report 5C3, First Edition, December 2008. Improved BTC for tubing is not an API End Finish.

Casing joint strengths are the lesser of the pipe strength, coupling strength or the pullout strength. For buttress threads, the joint strength is the lesser of the pipe strength or the coupling strength. Some casing joint strengths for the connections are greater than the corresponding pipe body yield strength.

For API products the collapse resistance values are based on the historical API Bulletin 5C3 equations which were retained in Technical Report 5C3, First Edition, December 2008.

The minimum internal yield pressure is the lowest of internal yield pressure of the pipe or the internal yield pressure of the coupling.

The internal pressure leak resistance at the E1 plane for round thread casing or at the E7 plane for buttress thread casing may be less than the minimum internal yield pressure for the connection.

Internal Pressure Leak Resistance for API Casing Connections

Size	Grades	STC	LTC	BTC	BTC SPL CLR
		psi	psi	psi	psi
4 1/2	ALL	17,920	17,920	17,380	13,910
5	ALL	16,000	16,000	19,580	14,240
5 1/2	ALL	13,160	13,160	16,100	11,880
6 5/8	ALL	11,830	11,830	14,780	8,310
7	ALL	11,790	11,790	14,840	7,480
7 5/8	ALL	11,800	11,800	12,680	8,030
8 5/8	ALL	10,380	10,380	11,230	6,340
9 5/8	R/T-95 and Lower	8,460	8,460	9,160	5,140
9 5/8	P-110 and Higher	9,710	9,710	9,160	5,140
10 3/4	R/T-95 and Lower	6,880	–	7,450	4,150
10 3/4	P-110 and Higher	7,890	–	7,450	4,150
11 3/4	R/T-95 and Lower	5,820	–	6,300	–
11 3/4	P-110 and Higher	6,670	–	6,300	–
13 3/8	R/T-95 and Lower	4,550	–	4,930	–
13 3/8	P-110 and Higher	5,220	–	4,930	–
16	ALL	3,230	–	3,560	–
18 5/8	ALL	3,150	–	3,500	–
20	H-40	2,100	2,100	2,320	–
20	J-55 and Higher	2,410	2,410	2,320	–

Minimum internal yield values are calculated using the minimum internal yield formula in API Bulletin 5C3 and product testing is not done to verify these values. All pipe is manufactured and inspected to standard API drift tolerances unless otherwise specified on the customer purchase order.

All performance values contained in this publication are for general information only and should not therefore, be used or relied upon for any specific application without independent competent professional examination and verification of its accuracy, suitability and applicability. Anyone making use of performance values contained herein does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		PE	NOM Body Wall	NOM ID	Drift Diameter	Product Grade		Pipe Body	Improved Buttress Thd	
	Non-Upset	Upset								Non-Upset	Regular
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
1.050	1.14	1.20	1.13	0.113	0.824	0.730	H40	7,680	7,530	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	J55	10,560	10,360	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	L80	15,370	15,070	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	N80 Type 1	15,370	15,070	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	N80	15,370	15,070	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	C90	17,290	16,950	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	R95	18,250	17,890	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	T95	18,250	17,890	--	--
1.050	1.14	1.20	1.13	0.113	0.824	0.730	USS C95	18,250	17,890	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	H40	10,010	10,270	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	J55	13,770	14,120	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	L80	20,020	20,530	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	N80 Type 1	20,020	20,530	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	N80	20,020	20,530	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	C90	22,530	23,100	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	R95	23,780	24,380	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	T95	23,780	24,380	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	USS C95	23,780	24,380	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	P110 SR16	27,530	28,230	--	--
1.050	--	1.54	1.48	0.154	0.742	0.648	P110	27,530	28,230	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	H40	7,270	7,080	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	J55	10,000	9,730	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	L80	14,550	14,160	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	N80 Type 1	14,550	14,160	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	N80	14,550	14,160	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	C90	16,360	15,930	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	R95	17,270	16,810	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	T95	17,270	16,810	--	--
1.315	1.70	1.80	1.68	0.133	1.049	0.955	USS C95	17,270	16,810	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	H40	9,410	9,530	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	J55	12,940	13,100	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	L80	18,810	19,060	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	N80 Type 1	18,810	19,060	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	N80	18,810	19,060	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	C90	21,170	21,440	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	R95	22,340	22,630	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	T95	22,340	22,630	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	USS C95	22,340	22,630	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	P110 SR16	25,870	26,200	--	--
1.315	--	2.24	2.17	0.179	0.957	0.863	P110	25,870	26,200	--	--
1.660	--	--	2.05	0.125	1.410	1.316	H40	5,570	5,270	--	--
1.660	--	--	2.05	0.125	1.410	1.316	J55	7,660	7,250	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	H40	6,180	5,900	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	J55	8,490	8,120	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	L80	12,360	11,810	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	N80 Type 1	12,360	11,810	--	--

Internal Yield Pressure					Tension						Ductile Rupture Capped End
					Yield Pipe Body	Threaded & Coupled Joint Strength					
Round Thread			Lame' - Von Mises			Improved Buttress Thd		Round Thread			
NUE	Upset EUE		Open	Capped		Non-Upset		NUE	Upset EUE		
Non-Upset	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr	
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi
7,530	7,530	--	7,360	7,860	13,300	--	--	6,400	13,300	--	8,570
10,360	10,360	--	10,130	10,810	18,300	--	--	8,700	18,300	--	10,790
15,070	15,070	--	14,730	15,730	26,600	--	--	12,700	26,600	--	16,850
15,070	15,070	--	14,730	15,730	26,600	--	--	12,700	26,600	--	14,570
15,070	15,070	--	14,730	15,730	26,600	--	--	12,700	26,600	--	17,740
16,950	16,950	--	16,570	17,690	30,000	--	--	14,300	30,000	--	19,790
17,890	17,890	--	17,490	18,680	31,600	--	--	15,100	31,600	--	18,790
17,890	17,890	--	17,490	18,680	31,600	--	--	15,100	31,600	--	20,850
17,890	17,890	--	17,490	18,680	31,600	--	--	15,100	31,600	--	20,850
--	9,420	--	9,840	10,310	17,300	--	--	--	17,300	--	11,990
--	12,950	--	13,540	14,180	23,800	--	--	--	23,800	--	15,100
--	18,840	--	19,690	20,630	34,600	--	--	--	34,600	--	23,730
--	18,840	--	19,690	20,630	34,600	--	--	--	34,600	--	20,390
--	18,840	--	19,690	20,630	34,600	--	--	--	34,600	--	24,970
--	21,200	--	22,150	23,210	39,000	--	--	--	39,000	--	27,950
--	22,380	--	23,380	24,500	41,100	--	--	--	41,100	--	26,450
--	22,380	--	23,380	24,500	41,100	--	--	--	41,100	--	29,450
--	22,380	--	23,380	24,500	41,100	--	--	--	41,100	--	29,450
--	25,910	--	27,070	28,360	47,600	--	--	--	47,600	--	31,690
--	25,910	--	27,070	28,360	47,600	--	--	--	47,600	--	35,290
7,080	7,080	--	6,940	7,440	19,800	--	--	11,000	19,800	--	8,020
9,730	9,730	--	9,540	10,220	27,200	--	--	15,100	27,200	--	10,100
14,160	14,160	--	13,880	14,870	39,500	--	--	21,900	39,500	--	15,760
14,160	14,160	--	13,880	14,870	39,500	--	--	21,900	39,500	--	13,630
14,160	14,160	--	13,880	14,870	39,500	--	--	21,900	39,500	--	16,590
15,930	15,930	--	15,610	16,730	44,500	--	--	24,700	44,500	--	18,490
16,810	16,810	--	16,480	17,660	46,900	--	--	26,000	46,900	--	17,560
16,810	16,810	--	16,480	17,660	46,900	--	--	26,000	46,900	--	19,480
16,810	16,810	--	16,480	17,660	46,900	--	--	26,000	46,900	--	19,480
--	9,530	--	9,190	9,670	25,600	--	--	--	25,600	--	11,050
--	13,100	--	12,640	13,300	35,100	--	--	--	35,100	--	13,920
--	19,060	--	18,380	19,350	51,100	--	--	--	51,100	--	21,830
--	19,060	--	18,380	19,350	51,100	--	--	--	51,100	--	18,790
--	19,060	--	18,380	19,350	51,100	--	--	--	51,100	--	22,970
--	21,440	--	20,680	21,770	57,500	--	--	--	57,500	--	25,690
--	22,630	--	21,830	22,970	60,700	--	--	--	60,700	--	24,330
--	22,630	--	21,830	22,970	60,700	--	--	--	60,700	--	27,070
--	22,630	--	21,830	22,970	60,700	--	--	--	60,700	--	27,070
--	26,200	--	25,270	26,600	70,300	--	--	--	70,300	--	29,150
--	26,200	--	25,270	26,600	70,300	--	--	--	70,300	--	32,440
--	--	--	5,210	5,670	24,100	--	--	--	--	--	5,870
--	--	--	7,170	7,800	33,200	--	--	--	--	--	7,390
5,900	5,900	--	5,820	6,300	26,800	--	--	15,500	26,800	--	6,610
8,120	8,120	--	8,010	8,660	36,800	--	--	21,300	36,800	--	8,330
11,810	11,810	--	11,640	12,600	53,500	--	--	31,000	53,500	--	12,960
11,810	11,810	--	11,640	12,600	53,500	--	--	31,000	53,500	--	11,240

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		NOM Body Wall	NOM ID	Drift Diameter	Product Grade	Pipe Body		Improved Buttress Thd		
	T&C	PE							Non-Upset		
	Non-Upset	Upset	Non-Upset						Regular	Special Clr	
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
1.660	2.30	2.40	2.27	0.140	1.380	1.286	N80	12,360	11,810	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	C90	13,900	13,280	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	R95	14,670	14,020	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	T95	14,670	14,020	--	--
1.660	2.30	2.40	2.27	0.140	1.380	1.286	USS C95	14,670	14,020	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	H40	8,150	8,050	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	J55	11,200	11,070	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	L80	16,290	16,110	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	N80 Type 1	16,290	16,110	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	N80	16,290	16,110	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	C90	18,330	18,120	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	R95	19,350	19,130	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	T95	19,350	19,130	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	USS C95	19,350	19,130	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	P110 SR16	22,400	22,150	--	--
1.660	--	3.07	3.00	0.191	1.278	1.184	P110	22,400	22,150	--	--
1.900	--	--	2.37	0.125	1.650	1.556	H40	4,920	4,610	--	--
1.900	--	--	2.37	0.125	1.650	1.556	J55	6,640	6,330	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	H40	5,640	5,340	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	J55	7,750	7,350	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	L80	11,280	10,680	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	N80 Type 1	11,280	10,680	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	N80	11,280	10,680	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	C90	12,620	12,020	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	R95	13,190	12,690	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	T95	13,190	12,690	--	--
1.900	2.75	2.90	2.72	0.145	1.610	1.516	USS C95	13,190	12,690	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	H40	7,530	7,370	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	J55	10,360	10,130	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	L80	15,070	14,740	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	N80 Type 1	15,070	14,740	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	N80	15,070	14,740	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	C90	16,950	16,580	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	R95	17,890	17,500	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	T95	17,890	17,500	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	USS C95	17,890	17,500	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	P110 SR16	20,720	20,260	--	--
1.900	--	3.73	3.63	0.200	1.500	1.406	P110	20,720	20,260	--	--
1.900	4.42	--	4.41	0.250	1.400	1.306	L80	18,280	18,420	--	--
1.900	4.42	--	4.41	0.250	1.400	1.306	C90	20,570	20,720	--	--
1.900	4.42	--	4.41	0.250	1.400	1.306	R95	21,710	21,880	--	--
1.900	4.42	--	4.41	0.250	1.400	1.306	T95	21,710	21,880	--	--
1.900	4.42	--	4.41	0.250	1.400	1.306	USS C95	21,710	21,880	--	--
1.900	5.15	--	5.13	0.300	1.300	1.206	L80	21,270	22,110	--	--
1.900	5.15	--	5.13	0.300	1.300	1.206	C90	23,930	24,870	--	--
1.900	5.15	--	5.13	0.300	1.300	1.206	R95	25,260	26,250	--	--

Internal Yield Pressure					Tension						Ductile Rupture Capped End
					Yield Pipe Body	Threaded & Coupled Joint Strength					
Round Thread			Lame' - Von Mises			Improved Buttress Thd		Round Thread			
NUE Non-Upset	Upset EUE		Open End	Capped End		Non-Upset		NUE	Upset EUE		
	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr	
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi
11,810	11,810	--	11,640	12,600	53,500	--	--	31,000	53,500	--	13,640
13,280	13,280	--	13,100	14,170	60,200	--	--	34,900	60,200	--	15,190
14,020	14,020	--	13,830	14,960	63,600	--	--	36,900	63,600	--	14,450
14,020	14,020	--	13,830	14,960	63,600	--	--	36,900	63,600	--	16,000
14,020	14,020	--	13,830	14,960	63,600	--	--	36,900	63,600	--	16,000
--	8,050	--	7,850	8,350	35,200	--	--	--	35,200	--	9,210
--	11,070	--	10,790	11,480	48,500	--	--	--	48,500	--	11,600
--	16,110	--	15,700	16,690	70,500	--	--	--	70,500	--	18,130
--	16,110	--	15,700	16,690	70,500	--	--	--	70,500	--	15,660
--	16,110	--	15,700	16,690	70,500	--	--	--	70,500	--	19,080
--	18,120	--	17,660	18,780	79,300	--	--	--	79,300	--	21,300
--	19,130	--	18,640	19,820	83,700	--	--	--	83,700	--	20,210
--	19,130	--	18,640	19,820	83,700	--	--	--	83,700	--	22,440
--	19,130	--	18,640	19,820	83,700	--	--	--	83,700	--	22,440
--	22,150	--	21,580	22,950	96,900	--	--	--	96,900	--	24,220
--	22,150	--	21,580	22,950	96,900	--	--	--	96,900	--	26,890
--	--	--	4,570	5,000	27,900	--	--	--	--	--	5,100
--	--	--	6,280	6,880	38,300	--	--	--	--	--	6,420
5,340	5,340	--	5,280	5,740	32,000	--	--	19,100	32,000	--	5,950
7,350	7,350	--	7,260	7,900	43,900	--	--	26,200	43,900	--	7,500
10,680	10,680	--	10,560	11,490	63,900	--	--	38,200	63,900	--	11,650
10,680	10,680	--	10,560	11,490	63,900	--	--	38,200	63,900	--	10,120
10,680	10,680	--	10,560	11,490	63,900	--	--	38,200	63,900	--	12,270
12,020	12,020	--	11,880	12,920	71,900	--	--	42,900	71,900	--	13,640
12,690	12,690	--	12,540	13,640	75,900	--	--	45,300	75,900	--	12,990
12,690	12,690	--	12,540	13,640	75,900	--	--	45,300	75,900	--	14,380
12,690	12,690	--	12,540	13,640	75,900	--	--	45,300	75,900	--	14,380
--	7,370	--	7,210	7,710	42,700	--	--	--	42,700	--	8,370
--	10,130	--	9,910	10,600	58,700	--	--	--	58,700	--	10,540
--	14,740	--	14,420	15,420	85,400	--	--	--	85,400	--	16,450
--	14,740	--	14,420	15,420	85,400	--	--	--	85,400	--	14,230
--	14,740	--	14,420	15,420	85,400	--	--	--	85,400	--	17,320
--	16,580	--	16,220	17,340	96,100	--	--	--	96,100	--	19,310
--	17,500	--	17,130	18,310	101,500	--	--	--	101,500	--	18,340
--	17,500	--	17,130	18,310	101,500	--	--	--	101,500	--	20,350
--	17,500	--	17,130	18,310	101,500	--	--	--	101,500	--	20,350
--	20,260	--	19,830	21,200	117,500	--	--	--	117,500	--	21,980
--	20,260	--	19,830	21,200	117,500	--	--	--	117,500	--	24,380
--	--	--	17,810	18,790	103,700	--	--	--	--	--	21,020
--	--	--	20,030	21,130	116,600	--	--	--	--	--	24,730
--	--	--	21,150	22,310	123,100	--	--	--	--	--	23,430
--	--	--	21,150	22,310	123,100	--	--	--	--	--	26,050
--	--	--	21,150	22,310	123,100	--	--	--	--	--	26,050
--	--	--	21,060	21,960	120,600	--	--	--	--	--	25,790
--	--	--	23,690	24,700	135,700	--	--	--	--	--	30,410
--	--	--	25,010	26,080	143,300	--	--	--	--	--	28,740

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		PE	NOM Body Wall	NOM ID	Drift Diameter	Product Grade		Pipe Body	Improved Buttress Thd	
	Non-Upset	Upset								Non-Upset	Regular
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
1.900	5.15	--	5.13	0.300	1.300	1.206	T95	25,260	26,250	--	--
1.900	5.15	--	5.13	0.300	1.300	1.206	USS C95	25,260	26,250	--	--
2.063	--	--	3.18	0.156	1.751	1.657	H40	5,590	5,290	--	--
2.063	--	--	3.18	0.156	1.751	1.657	J55	7,690	7,280	--	--
2.063	--	--	3.18	0.156	1.751	1.657	L80	11,180	10,590	--	--
2.063	--	--	3.18	0.156	1.751	1.657	N80 Type 1	11,180	10,590	--	--
2.063	--	--	3.18	0.156	1.751	1.657	N80	11,180	10,590	--	--
2.063	--	--	3.18	0.156	1.751	1.657	C90	12,420	11,910	--	--
2.063	--	--	3.18	0.156	1.751	1.657	R95	12,980	12,570	--	--
2.063	--	--	3.18	0.156	1.751	1.657	T95	12,980	12,570	--	--
2.063	--	--	3.18	0.156	1.751	1.657	USS C95	12,980	12,570	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	H40	7,770	7,630	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	J55	10,690	10,500	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	L80	15,550	15,270	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	N80 Type 1	15,550	15,270	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	N80	15,550	15,270	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	C90	17,490	17,180	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	R95	18,460	18,130	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	T95	18,460	18,130	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	USS C95	18,460	18,130	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	P110 SR16	21,380	20,990	--	--
2.063	4.50	--	4.42	0.225	1.613	1.519	P110	21,380	20,990	--	--
2.375	4.00	--	3.94	0.167	2.041	1.947	H40	5,230	4,920	4920	4920
2.375	4.00	--	3.94	0.167	2.041	1.947	J55	7,190	6,770	6770	6770
2.375	4.00	--	3.94	0.167	2.041	1.947	L80	9,980	9,840	9840	9840
2.375	4.00	--	3.94	0.167	2.041	1.947	N80 Type 1	9,980	9,840	9840	9840
2.375	4.00	--	3.94	0.167	2.041	1.947	N80	9,980	9,840	9840	9840
2.375	4.00	--	3.94	0.167	2.041	1.947	C90	10,940	11,070	11070	11070
2.375	4.00	--	3.94	0.167	2.041	1.947	R95	11,410	11,690	11690	11690
2.375	4.00	--	3.94	0.167	2.041	1.947	T95	11,410	11,690	11690	11690
2.375	4.00	--	3.94	0.167	2.041	1.947	USS C95	11,410	11,690	11690	11690
2.375	4.60	4.70	4.44	0.190	1.995	1.901	H40	5,890	5,600	5600	5600
2.375	4.60	4.70	4.44	0.190	1.995	1.901	J55	8,100	7,700	7700	7700
2.375	4.60	4.70	4.44	0.190	1.995	1.901	L80	11,780	11,200	11200	11200
2.375	4.60	4.70	4.44	0.190	1.995	1.901	N80 Type 1	11,780	11,200	11200	11200
2.375	4.60	4.70	4.44	0.190	1.995	1.901	N80	11,780	11,200	11200	11200
2.375	4.60	4.70	4.44	0.190	1.995	1.901	C90	13,250	12,600	12600	12600
2.375	4.60	4.70	4.44	0.190	1.995	1.901	R95	13,980	13,300	13300	13300
2.375	4.60	4.70	4.44	0.190	1.995	1.901	T95	13,980	13,300	13300	13300
2.375	4.60	4.70	4.44	0.190	1.995	1.901	USS C95	13,980	13,300	13300	13300
2.375	4.60	4.70	4.44	0.190	1.995	1.901	P110 SR16	16,130	15,400	15400	15400
2.375	4.60	4.70	4.44	0.190	1.995	1.901	P110	16,130	15,400	15400	15400
2.375	5.80	5.95	5.76	0.254	1.867	1.773	J55	10,510	10,290	10290	9310
2.375	5.80	5.95	5.76	0.254	1.867	1.773	L80	15,280	14,970	14970	13550
2.375	5.80	5.95	5.76	0.254	1.867	1.773	N80 Type 1	15,280	14,970	14970	13550
2.375	5.80	5.95	5.76	0.254	1.867	1.773	N80	15,280	14,970	14970	13550

Internal Yield Pressure					Tension						Ductile Rupture Capped End
					Yield Pipe Body	Threaded & Coupled Joint Strength					
Round Thread			Lame' - Von Mises			Improved Buttress Thd		Round Thread			
NUE	Upset EUE		Open	Capped		Non-Upset		NUE	Upset EUE		
Non-Upset	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr	
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi
--	--	--	25,010	26,080	143,300	--	--	--	--	--	32,050
--	--	--	25,010	26,080	143,300	--	--	--	--	--	32,050
--	--	--	5,230	5,690	37,400	--	--	--	--	--	5,900
--	--	--	7,200	7,830	51,400	--	--	--	--	--	7,420
--	--	--	10,470	11,390	74,800	--	--	--	--	--	11,540
--	--	--	10,470	11,390	74,800	--	--	--	--	--	10,020
--	--	--	10,470	11,390	74,800	--	--	--	--	--	12,150
--	--	--	11,780	12,810	84,200	--	--	--	--	--	13,510
--	--	--	12,430	13,530	88,800	--	--	--	--	--	12,860
--	--	--	12,430	13,530	88,800	--	--	--	--	--	14,240
--	--	--	12,430	13,530	88,800	--	--	--	--	--	14,240
--	--	--	7,460	7,960	52,000	--	--	--	--	--	8,690
--	--	--	10,260	10,940	71,400	--	--	--	--	--	10,950
--	--	--	14,920	15,920	103,900	--	--	--	--	--	17,100
--	--	--	14,920	15,920	103,900	--	--	--	--	--	14,780
--	--	--	14,920	15,920	103,900	--	--	--	--	--	18,000
--	--	--	16,780	17,910	116,900	--	--	--	--	--	20,080
--	--	--	17,720	18,900	123,400	--	--	--	--	--	19,060
--	--	--	17,720	18,900	123,400	--	--	--	--	--	21,160
--	--	--	17,720	18,900	123,400	--	--	--	--	--	21,160
--	--	--	20,510	21,880	142,900	--	--	--	--	--	22,840
--	--	--	20,510	21,880	142,900	--	--	--	--	--	25,350
4,920	--	--	4,870	5,320	46,300	46,300	46,300	30,100	--	--	5,460
6,770	--	--	6,700	7,320	63,700	63,700	63,700	41,400	--	--	6,880
9,840	--	--	9,750	10,640	92,600	92,600	92,600	60,200	--	--	10,690
9,840	--	--	9,750	10,640	92,600	92,600	92,600	60,200	--	--	9,290
9,840	--	--	9,750	10,640	92,600	92,600	92,600	60,200	--	--	11,250
11,070	--	--	10,970	11,970	104,200	104,200	104,200	67,800	--	--	12,510
11,690	--	--	11,580	12,640	110,000	110,000	110,000	71,500	--	--	11,910
11,690	--	--	11,580	12,640	110,000	110,000	110,000	71,500	--	--	13,180
11,690	--	--	11,580	12,640	110,000	110,000	110,000	71,500	--	--	13,180
5,600	5,600	5,600	5,530	6,000	52,200	52,200	52,200	36,000	52,200	52,200	6,250
7,700	7,700	7,700	7,600	8,250	71,700	71,700	71,700	49,400	71,700	71,700	7,880
11,200	11,200	11,200	11,060	12,000	104,300	104,300	104,300	71,900	104,300	104,300	12,250
11,200	11,200	11,200	11,060	12,000	104,300	104,300	104,300	71,900	104,300	104,300	10,630
11,200	11,200	11,200	11,060	12,000	104,300	104,300	104,300	71,900	104,300	104,300	12,900
12,600	12,600	12,600	12,440	13,500	117,400	117,400	117,400	80,900	117,400	117,400	14,350
13,300	13,300	13,300	13,140	14,250	123,900	123,900	123,900	85,400	123,900	123,900	13,660
13,300	13,300	13,300	13,140	14,250	123,900	123,900	123,900	85,400	123,900	123,900	15,120
13,300	13,300	13,300	13,140	14,250	123,900	123,900	123,900	85,400	123,900	123,900	15,120
15,400	15,400	15,400	15,210	16,500	143,400	143,400	143,400	98,900	143,400	143,400	16,370
15,400	15,400	15,400	15,210	16,500	143,400	143,400	143,400	98,900	143,400	143,400	18,120
10,290	10,220	7,860	10,070	10,750	93,100	93,100	93,100	70,800	93,100	93,100	10,720
14,970	14,860	11,440	14,640	15,640	135,400	135,400	135,400	103,000	135,400	135,400	16,740
14,970	14,860	11,440	14,640	15,640	135,400	135,400	135,400	103,000	135,400	135,400	14,470
14,970	14,860	11,440	14,640	15,640	135,400	135,400	135,400	103,000	135,400	135,400	17,620

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		PE Non-Upset	NOM Body Wall	NOM ID	Drift Diameter	Product Grade		Pipe Body	Improved Buttress Thd Non-Upset	
	Non-Upset	Upset								Regular	Special Clr
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
2.375	5.80	5.95	5.76	0.254	1.867	1.773	C90	17,190	16,840	16840	15240
2.375	5.80	5.95	5.76	0.254	1.867	1.773	R95	18,150	17,780	17780	16090
2.375	5.80	5.95	5.76	0.254	1.867	1.773	T95	18,150	17,780	17780	16090
2.375	5.80	5.95	5.76	0.254	1.867	1.773	USS C95	18,150	17,780	17780	16090
2.375	5.80	5.95	5.76	0.254	1.867	1.773	P110 SR16	21,010	20,590	20590	18630
2.375	5.80	5.95	5.76	0.254	1.867	1.773	P110	21,010	20,590	20590	18630
2.375	6.60	--	6.56	0.295	1.785	1.691	L80	17,410	17,390	--	--
2.375	6.60	--	6.56	0.295	1.785	1.691	C90	19,580	19,560	--	--
2.375	6.60	--	6.56	0.295	1.785	1.691	R95	20,670	20,650	--	--
2.375	6.60	--	6.56	0.295	1.785	1.691	T95	20,670	20,650	--	--
2.375	6.60	--	6.56	0.295	1.785	1.691	USS C95	20,670	20,650	--	--
2.375	7.35	7.45	7.32	0.336	1.703	1.609	L80	19,430	19,810	--	--
2.375	7.35	7.45	7.32	0.336	1.703	1.609	C90	21,860	22,280	--	--
2.375	7.35	7.45	7.32	0.336	1.703	1.609	R95	23,080	23,520	--	--
2.375	7.35	7.45	7.32	0.336	1.703	1.609	T95	23,080	23,520	--	--
2.375	7.35	7.45	7.32	0.336	1.703	1.609	USS C95	23,080	23,520	--	--
2.875	6.40	6.50	6.17	0.217	2.441	2.347	H40	5,580	5,280	5280	5280
2.875	6.40	6.50	6.17	0.217	2.441	2.347	J55	7,680	7,260	7260	7260
2.875	6.40	6.50	6.17	0.217	2.441	2.347	L80	11,170	10,570	10570	10570
2.875	6.40	6.50	6.17	0.217	2.441	2.347	N80 Type 1	11,170	10,570	10570	10570
2.875	6.40	6.50	6.17	0.217	2.441	2.347	N80	11,170	10,570	10570	10570
2.875	6.40	6.50	6.17	0.217	2.441	2.347	C90	12,380	11,890	11890	11890
2.875	6.40	6.50	6.17	0.217	2.441	2.347	R95	12,940	12,550	12550	12550
2.875	6.40	6.50	6.17	0.217	2.441	2.347	T95	12,940	12,550	12550	12550
2.875	6.40	6.50	6.17	0.217	2.441	2.347	USS C95	12,940	12,550	12550	12550
2.875	6.40	6.50	6.17	0.217	2.441	2.347	P110 SR16	14,550	14,530	14530	14530
2.875	6.40	6.50	6.17	0.217	2.441	2.347	P110	14,550	14,530	14530	14530
2.875	7.80	7.90	7.67	0.276	2.323	2.229	J55	9,540	9,240	9240	8150
2.875	7.80	7.90	7.67	0.276	2.323	2.229	L80	13,890	13,440	13440	11860
2.875	7.80	7.90	7.67	0.276	2.323	2.229	N80 Type 1	13,890	13,440	13440	11860
2.875	7.80	7.90	7.67	0.276	2.323	2.229	N80	13,890	13,440	13440	11860
2.875	7.80	7.90	7.67	0.276	2.323	2.229	C90	15,620	15,120	15120	13340
2.875	7.80	7.90	7.67	0.276	2.323	2.229	R95	16,490	15,960	15960	14080
2.875	7.80	7.90	7.67	0.276	2.323	2.229	T95	16,490	15,960	15960	14080
2.875	7.80	7.90	7.67	0.276	2.323	2.229	USS C95	16,490	15,960	15960	14080
2.875	7.80	7.90	7.67	0.276	2.323	2.229	P110 SR16	19,090	18,480	18480	16300
2.875	7.80	7.90	7.67	0.276	2.323	2.229	P110	19,090	18,480	18480	16300
2.875	8.60	8.70	8.45	0.308	2.259	2.165	J55	10,530	10,310	10310	8150
2.875	8.60	8.70	8.45	0.308	2.259	2.165	L80	15,300	15,000	15000	11860
2.875	8.60	8.70	8.45	0.308	2.259	2.165	N80 Type 1	15,300	15,000	15000	11860
2.875	8.60	8.70	8.45	0.308	2.259	2.165	N80	15,300	15,000	15000	11860
2.875	8.60	8.70	8.45	0.308	2.259	2.165	C90	17,220	16,870	16870	13340
2.875	8.60	8.70	8.45	0.308	2.259	2.165	R95	18,170	17,810	17810	14080
2.875	8.60	8.70	8.45	0.308	2.259	2.165	T95	18,170	17,810	17810	14080
2.875	8.60	8.70	8.45	0.308	2.259	2.165	USS C95	18,170	17,810	17810	14080
2.875	8.60	8.50	8.45	0.308	2.259	2.165	P110 SR16	21,040	20,620	20620	16300

Internal Yield Pressure					Tension						Ductile Rupture Capped End		
					Yield Pipe Body	Threaded & Coupled Joint Strength							
Round Thread			Lame' - Von Mises			Improved Buttress Thd		Round Thread					
NUE	Upset EUE		Open	Capped		Non-Upset		NUE	Upset EUE				
Non-Upset	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr			
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi		
16,840	16,720	12,870	16,470	17,590	152,300	152,300	152,300	115,800	152,300	152,300	19,650		
17,780	17,650	13,580	17,390	18,570	160,700	160,700	160,700	122,300	160,700	160,700	18,660		
17,780	17,650	13,580	17,390	18,570	160,700	160,700	160,700	122,300	160,700	160,700	20,710		
17,780	17,650	13,580	17,390	18,570	160,700	160,700	160,700	122,300	160,700	160,700	20,710		
20,590	20,430	15,730	20,130	21,500	186,100	186,100	186,100	141,600	186,100	186,100	22,360		
20,590	20,430	15,730	20,130	21,500	186,100	186,100	186,100	141,600	186,100	186,100	24,810		
--	--	--	16,870	17,860	154,200	--	--	--	--	--	19,720		
--	--	--	18,980	20,090	173,500	--	--	--	--	--	23,190		
--	--	--	20,040	21,210	183,200	--	--	--	--	--	21,980		
--	--	--	20,040	21,210	183,200	--	--	--	--	--	24,430		
--	--	--	20,040	21,210	183,200	--	--	--	--	--	24,430		
--	14,860	11,440	19,050	20,000	172,200	--	--	--	172,200	141,300	22,790		
--	16,720	12,870	21,430	22,500	193,700	--	--	--	193,700	158,900	26,830		
--	17,650	13,580	22,620	23,750	204,400	--	--	--	204,400	167,800	25,400		
--	17,650	13,580	22,620	23,750	204,400	--	--	--	204,400	167,800	28,270		
--	17,650	13,580	22,620	23,750	204,400	--	--	--	204,400	167,800	28,270		
5,280	5,280	5,280	5,230	5,690	72,500	72,500	72,500	52,800	72,500	72,500	5,880		
7,260	7,260	7,260	7,180	7,820	99,700	99,700	99,700	72,600	99,700	99,700	7,410		
10,570	10,570	10,570	10,450	11,370	145,000	145,000	145,000	105,600	145,000	145,000	11,520		
10,570	10,570	10,570	10,450	11,370	145,000	145,000	145,000	105,600	145,000	145,000	10,000		
10,570	10,570	10,570	10,450	11,370	145,000	145,000	145,000	105,600	145,000	145,000	12,120		
11,890	11,890	11,890	11,760	12,790	163,100	163,100	163,100	118,800	163,100	163,100	13,490		
12,550	12,550	12,550	12,410	13,500	172,100	172,100	172,100	125,400	172,100	172,100	12,840		
12,550	12,550	12,550	12,410	13,500	172,100	172,100	172,100	125,400	172,100	172,100	14,210		
12,550	12,550	12,550	12,410	13,500	172,100	172,100	172,100	125,400	172,100	172,100	14,210		
14,530	14,530	14,530	14,370	15,630	199,300	199,300	199,300	145,200	199,300	199,300	15,380		
14,530	14,530	14,530	14,370	15,630	199,300	199,300	199,300	145,200	199,300	199,300	17,030		
9,240	9,240	7,580	9,080	9,750	124,000	124,000	118,280	96,900	124,000	124,000	9,550		
13,440	13,440	11,030	13,200	14,190	180,300	180,300	172,050	140,900	180,300	180,300	14,890		
13,440	13,440	11,030	13,200	14,190	180,300	180,300	172,050	140,900	180,300	180,300	12,900		
13,440	13,440	11,030	13,200	14,190	180,300	180,300	172,050	140,900	180,300	180,300	15,680		
15,120	15,120	12,410	14,850	15,960	202,900	202,900	193,550	158,500	202,900	202,900	17,470		
15,960	15,960	13,100	15,680	16,840	214,100	214,100	204,310	167,300	214,100	214,100	16,600		
15,960	15,960	13,100	15,680	16,840	214,100	214,100	204,310	167,300	214,100	214,100	18,400		
15,960	15,960	13,100	15,680	16,840	214,100	214,100	204,310	167,300	214,100	214,100	18,400		
18,480	18,480	15,160	18,150	19,500	247,900	247,900	236,560	193,700	247,900	247,900	19,890		
18,480	18,480	15,160	18,150	19,500	247,900	247,900	236,560	193,700	247,900	247,900	22,050		
10,310	10,270	7,580	10,080	10,770	136,600	136,600	118,280	109,500	136,600	132,800	10,740		
15,000	14,940	11,030	14,670	15,660	198,700	198,700	172,050	159,300	198,700	193,100	16,770		
15,000	14,940	11,030	14,670	15,660	198,700	198,700	172,050	159,300	198,700	193,100	14,500		
15,000	14,940	11,030	14,670	15,660	198,700	198,700	172,050	159,300	198,700	193,100	17,650		
16,870	16,810	12,410	16,500	17,620	223,600	223,600	193,550	179,200	223,600	217,300	19,690		
17,810	17,740	13,100	17,420	18,600	236,000	236,000	204,310	189,100	236,000	229,300	18,690		
17,810	17,740	13,100	17,420	18,600	236,000	236,000	204,310	189,100	236,000	229,300	20,740		
17,810	17,740	13,100	17,420	18,600	236,000	236,000	204,310	189,100	236,000	229,300	20,740		
20,620	20,540	15,160	20,170	21,540	273,200	273,200	236,560	219,000	273,200	265,500	22,400		

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		NOM Body Wall	NOM ID	Drift Diameter	Product Grade	Pipe Body		Improved Buttress Thd Non-Upset		
	T&C Non-Upset	Upset							Non-Upset	Regular	Special Clr
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
2.875	8.60	8.50	8.45	0.308	2.259	2.165	P110	21,040	20,620	20620	16300
2.875	9.35	9.45	9.21	0.340	2.195	2.101	L80	16,680	16,560	--	--
2.875	9.35	9.45	9.21	0.340	2.195	2.101	C90	18,770	18,630	--	--
2.875	9.35	9.45	9.21	0.340	2.195	2.101	R95	19,810	19,660	--	--
2.875	9.35	9.45	9.21	0.340	2.195	2.101	T95	19,810	19,660	--	--
2.875	9.35	9.45	9.21	0.340	2.195	2.101	USS C95	19,810	19,660	--	--
2.875	10.50	--	10.40	0.392	2.091	1.997	L80	18,840	19,090	--	--
2.875	10.50	--	10.40	0.392	2.091	1.997	C90	21,200	21,470	--	--
2.875	10.50	--	10.40	0.392	2.091	1.997	R95	22,370	22,670	--	--
2.875	10.50	--	10.40	0.392	2.091	1.997	T95	22,370	22,670	--	--
2.875	10.50	--	10.40	0.392	2.091	1.997	USS C95	22,370	22,670	--	--
2.875	11.50	--	11.45	0.440	1.995	1.901	L80	20,740	21,430	--	--
2.875	11.50	--	11.45	0.440	1.995	1.901	C90	23,330	24,100	--	--
2.875	11.50	--	11.45	0.440	1.995	1.901	R95	24,630	25,440	--	--
2.875	11.50	--	11.45	0.440	1.995	1.901	T95	24,630	25,440	--	--
2.875	11.50	--	11.45	0.440	1.995	1.901	USS C95	24,630	25,440	--	--
3.500	7.70	--	7.58	0.216	3.068	2.943	H40	4,630	4,320	4320	4320
3.500	7.70	--	7.58	0.216	3.068	2.943	J55	5,970	5,940	5940	5940
3.500	7.70	--	7.58	0.216	3.068	2.943	L80	7,870	8,640	8640	8640
3.500	7.70	--	7.58	0.216	3.068	2.943	N80 Type 1	7,870	8,640	8640	8640
3.500	7.70	--	7.58	0.216	3.068	2.943	N80	7,870	8,640	8640	8640
3.500	7.70	--	7.58	0.216	3.068	2.943	C90	8,540	9,720	9720	9720
3.500	7.70	--	7.58	0.216	3.068	2.943	R95	8,850	10,260	10260	10260
3.500	7.70	--	7.58	0.216	3.068	2.943	T95	8,850	10,260	10260	10260
3.500	7.70	--	7.58	0.216	3.068	2.943	USS C95	8,850	10,260	10260	10260
3.500	9.20	9.30	8.81	0.254	2.992	2.867	H40	5,380	5,080	5080	5080
3.500	9.20	9.30	8.81	0.254	2.992	2.867	J55	7,400	6,990	6990	6990
3.500	9.20	9.30	8.81	0.254	2.992	2.867	L80	10,540	10,160	10160	10160
3.500	9.20	9.30	8.81	0.254	2.992	2.867	N80 Type 1	10,540	10,160	10160	10160
3.500	9.20	9.30	8.81	0.254	2.992	2.867	N80	10,540	10,160	10160	10160
3.500	9.20	9.30	8.81	0.254	2.992	2.867	C90	11,570	11,430	11430	11430
3.500	9.20	9.30	8.81	0.254	2.992	2.867	R95	12,080	12,070	12070	12070
3.500	9.20	9.30	8.81	0.254	2.992	2.867	T95	12,080	12,070	12070	12070
3.500	9.20	9.30	8.81	0.254	2.992	2.867	USS C95	12,080	12,070	12070	12070
3.500	9.20	9.30	8.81	0.254	2.992	2.867	P110 SR16	13,530	13,970	13970	13970
3.500	9.20	9.30	8.81	0.254	2.992	2.867	P110	13,530	13,970	13970	13970
3.500	10.20	--	9.92	0.289	2.922	2.797	H40	6,060	5,780	5780	5150
3.500	10.20	--	9.92	0.289	2.922	2.797	J55	8,330	7,950	7950	7080
3.500	10.20	--	9.92	0.289	2.922	2.797	L80	12,120	11,560	11560	10290
3.500	10.20	--	9.92	0.289	2.922	2.797	N80 Type 1	12,120	11,560	11560	10290
3.500	10.20	--	9.92	0.289	2.922	2.797	N80	12,120	11,560	11560	10290
3.500	10.20	--	9.92	0.289	2.922	2.797	C90	13,640	13,010	13010	11580
3.500	10.20	--	9.92	0.289	2.922	2.797	R95	14,390	13,730	13730	12220
3.500	10.20	--	9.92	0.289	2.922	2.797	T95	14,390	13,730	13730	12220
3.500	10.20	--	9.92	0.289	2.922	2.797	USS C95	14,390	13,730	13730	12220
3.500	10.20	--	9.92	0.289	2.922	2.797	P110 SR16	16,670	15,900	15900	14150

Internal Yield Pressure					Tension						Ductile Rupture Capped End		
					Yield Pipe Body	Threaded & Coupled Joint Strength							
Round Thread			Lame' - Von Mises			Improved Buttress Thd		Round Thread					
NUE	Upset EUE		Open	Capped		Non-Upset		NUE	Upset EUE				
Non-Upset	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr			
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi		
20,620	20,540	15,160	20,170	21,540	273,200	273,200	236,560	219,000	273,200	265,500	24,860		
--	14,940	11,030	16,110	17,100	216,600	--	--	--	216,600	193,100	18,680		
--	16,810	12,410	18,120	19,240	243,700	--	--	--	243,700	217,300	21,950		
--	17,740	13,100	19,130	20,310	257,300	--	--	--	257,300	229,300	20,820		
--	17,740	13,100	19,130	20,310	257,300	--	--	--	257,300	229,300	23,130		
--	17,740	13,100	19,130	20,310	257,300	--	--	--	257,300	229,300	23,130		
--	--	--	18,410	19,370	244,600	--	--	--	--	--	21,870		
--	--	--	20,710	21,800	275,200	--	--	--	--	--	25,740		
--	--	--	21,860	23,010	290,500	--	--	--	--	--	24,370		
--	--	--	21,860	23,010	290,500	--	--	--	--	--	27,120		
--	--	--	21,860	23,010	290,500	--	--	--	--	--	27,120		
--	--	--	20,470	21,390	269,300	--	--	--	--	--	24,890		
--	--	--	23,030	24,060	302,900	--	--	--	--	--	29,350		
--	--	--	24,310	25,400	319,800	--	--	--	--	--	27,740		
--	--	--	24,310	25,400	319,800	--	--	--	--	--	30,920		
--	--	--	24,310	25,400	319,800	--	--	--	--	--	30,920		
4,320	--	--	4,290	4,710	89,100	89,100	89,100	65,100	--	--	4,770		
5,940	--	--	5,900	6,470	122,500	122,500	122,500	89,500	--	--	6,000		
8,640	--	--	8,580	9,420	178,200	178,200	178,200	130,200	--	--	9,320		
8,640	--	--	8,580	9,420	178,200	178,200	178,200	130,200	--	--	8,110		
8,640	--	--	8,580	9,420	178,200	178,200	178,200	130,200	--	--	9,810		
9,720	--	--	9,650	10,590	200,500	200,500	200,500	146,400	--	--	10,890		
10,260	--	--	10,180	11,180	211,700	211,700	211,700	154,600	--	--	10,380		
10,260	--	--	10,180	11,180	211,700	211,700	211,700	154,600	--	--	11,480		
10,260	--	--	10,180	11,180	211,700	211,700	211,700	154,600	--	--	11,480		
5,080	5,080	5,080	5,030	5,480	103,600	103,600	103,600	79,600	103,600	103,600	5,650		
6,990	6,990	6,990	6,910	7,540	142,500	142,500	142,500	109,400	142,500	142,500	7,110		
10,160	10,160	10,160	10,060	10,960	207,200	207,200	207,200	159,100	207,200	207,200	11,050		
10,160	10,160	10,160	10,060	10,960	207,200	207,200	207,200	159,100	207,200	207,200	9,600		
10,160	10,160	10,160	10,060	10,960	207,200	207,200	207,200	159,100	207,200	207,200	11,630		
11,430	11,430	11,430	11,310	12,330	233,100	233,100	233,100	179,000	233,100	233,100	12,930		
12,070	12,070	12,070	11,940	13,020	246,100	246,100	246,100	189,000	246,100	246,100	12,320		
12,070	12,070	12,070	11,940	13,020	246,100	246,100	246,100	189,000	246,100	246,100	13,630		
12,070	12,070	12,070	11,940	13,020	246,100	246,100	246,100	189,000	246,100	246,100	13,630		
13,970	13,970	13,970	13,830	15,070	284,900	284,900	284,900	218,800	284,900	284,900	14,760		
13,970	13,970	13,970	13,830	15,070	284,900	284,900	284,900	218,800	284,900	284,900	16,330		
5,780	--	--	5,700	6,180	116,600	116,600	108,840	92,600	--	--	6,470		
7,950	--	--	7,840	8,500	160,300	160,300	149,660	127,300	--	--	8,140		
11,560	--	--	11,410	12,360	233,200	233,200	217,690	185,100	--	--	12,670		
11,560	--	--	11,410	12,360	233,200	233,200	217,690	185,100	--	--	11,000		
11,560	--	--	11,410	12,360	233,200	233,200	217,690	185,100	--	--	13,340		
13,010	--	--	12,830	13,900	262,400	262,400	244,900	208,300	--	--	14,840		
13,730	--	--	13,550	14,670	276,900	276,900	258,500	219,800	--	--	14,130		
13,730	--	--	13,550	14,670	276,900	276,900	258,500	219,800	--	--	15,640		
13,730	--	--	13,550	14,670	276,900	276,900	258,500	219,800	--	--	15,640		
15,900	--	--	15,690	16,990	320,700	320,700	299,320	254,500	--	--	16,930		

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure			
OD Size	Weight		PE Non-Upset	NOM Body Wall	NOM ID	Drift Diameter	Product Grade		Pipe Body	Improved Buttress Thd Non-Upset		
	Non-Upset	Upset								Regular	Special Clr	
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi	
3.500	10.20	--	9.92	0.289	2.922	2.797	P110	16,670	15,900	15900	14150	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	L80	15,310	15,000	15000	10290	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	N80 Type 1	15,310	15,000	15000	10290	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	N80	15,310	15,000	15000	10290	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	C90	17,220	16,880	16880	11580	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	R95	18,180	17,810	17810	12220	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	T95	18,180	17,810	17810	12220	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	USS C95	18,180	17,810	17810	12220	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	P110 SR16	21,050	20,630	20630	14150	
3.500	12.70	12.95	12.53	0.375	2.750	2.625	P110	21,050	20,630	20630	14150	
3.500	14.30	--	14.11	0.430	2.640	2.515	L80	17,280	17,200	--	--	
3.500	14.30	--	14.11	0.430	2.640	2.515	C90	19,400	19,350	--	--	
3.500	14.30	--	14.11	0.430	2.640	2.515	R95	20,480	20,430	--	--	
3.500	14.30	--	14.11	0.430	2.640	2.515	T95	20,480	20,430	--	--	
3.500	14.30	--	14.11	0.430	2.640	2.515	USS C95	20,480	20,430	--	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	J55	12,290	12,350	11420	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	L80	17,880	17,960	16610	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	N80 Type 1	17,880	17,960	16610	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	N80	17,880	17,960	16610	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	C90	20,120	20,210	18680	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	R95	21,240	21,330	19720	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	T95	21,240	21,330	19720	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	USS C95	21,240	21,330	19720	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	P110 SR16	24,590	24,700	22830	--	
3.500	14.90	--	14.64	0.449	2.602	2.477	P110	24,590	24,700	22830	--	
3.500	15.50	--	15.39	0.476	2.548	2.423	L80	18,800	19,040	--	--	
3.500	15.50	--	15.39	0.476	2.548	2.423	C90	21,150	21,420	--	--	
3.500	15.50	--	15.39	0.476	2.548	2.423	R95	22,330	22,610	--	--	
3.500	15.50	--	15.39	0.476	2.548	2.423	T95	22,330	22,610	--	--	
3.500	15.50	--	15.39	0.476	2.548	2.423	USS C95	22,330	22,610	--	--	
3.500	17.00	--	16.83	0.530	2.440	2.315	L80	20,560	21,200	--	--	
3.500	17.00	--	16.83	0.530	2.440	2.315	C90	23,130	23,850	--	--	
3.500	17.00	--	16.83	0.530	2.440	2.315	R95	24,410	25,180	--	--	
3.500	17.00	--	16.83	0.530	2.440	2.315	T95	24,410	25,180	--	--	
3.500	17.00	--	16.83	0.530	2.440	2.315	USS C95	24,410	25,180	--	--	
4.000	9.50	--	9.12	0.226	3.548	3.423	H40	4,050	3,960	3960	3960	
4.000	9.50	--	9.12	0.226	3.548	3.423	J55	5,110	5,440	5440	5440	
4.000	9.50	--	9.12	0.226	3.548	3.423	L80	6,590	7,910	7910	7910	
4.000	9.50	--	9.12	0.226	3.548	3.423	N80 Type 1	6,590	7,910	7910	7910	
4.000	9.50	--	9.12	0.226	3.548	3.423	N80	6,590	7,910	7910	7910	
4.000	9.50	--	9.12	0.226	3.548	3.423	C90	7,080	8,900	8900	8900	
4.000	9.50	--	9.12	0.226	3.548	3.423	R95	7,310	9,390	9390	9390	
4.000	9.50	--	9.12	0.226	3.548	3.423	T95	7,310	9,390	9390	9390	
4.000	9.50	--	9.12	0.226	3.548	3.423	USS C95	7,310	9,390	9390	9390	
4.000	--	11.00	10.47	0.262	3.476	3.351	H40	4,900	4,580	4580	4580	
4.000	--	11.00	10.47	0.262	3.476	3.351	J55	6,590	6,300	6300	6300	

Internal Yield Pressure					Tension						Ductile Rupture Capped End		
					Yield Pipe Body	Threaded & Coupled Joint Strength							
Round Thread			Lame' - Von Mises			Improved Buttress Thd		Round Thread					
NUE	Upset EUE		Open	Capped		Non-Upset		NUE	Upset EUE				
Non-Upset	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr			
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi		
15,900	--	--	15,690	16,990	320,700	320,700	299,320	254,500	--	--	18,740		
15,000	15,000	10,660	14,670	15,660	294,600	294,600	217,690	246,400	294,600	273,100	16,770		
15,000	15,000	10,660	14,670	15,660	294,600	294,600	217,690	246,400	294,600	273,100	14,500		
15,000	15,000	10,660	14,670	15,660	294,600	294,600	217,690	246,400	294,600	273,100	17,660		
16,880	16,880	11,990	16,500	17,620	331,400	331,400	244,900	277,200	331,400	307,300	19,690		
17,810	17,810	12,660	17,420	18,600	349,800	349,800	258,500	292,600	349,800	324,300	18,700		
17,810	17,810	12,660	17,420	18,600	349,800	349,800	258,500	292,600	349,800	324,300	20,750		
17,810	17,810	12,660	17,420	18,600	349,800	349,800	258,500	292,600	349,800	324,300	20,750		
20,630	20,630	14,660	20,170	21,540	405,000	405,000	299,320	338,800	405,000	375,500	22,400		
20,630	20,630	14,660	20,170	21,540	405,000	405,000	299,320	338,800	405,000	375,500	24,860		
--	--	--	16,700	17,690	331,800	--	--	--	--	--	19,480		
--	--	--	18,790	19,900	373,200	--	--	--	--	--	22,900		
--	--	--	19,830	21,010	394,000	--	--	--	--	--	21,720		
--	--	--	19,830	21,010	394,000	--	--	--	--	--	24,130		
--	--	--	19,830	21,010	394,000	--	--	--	--	--	24,130		
11,260	--	--	11,960	12,630	236,700	236,700	--	203,600	--	--	13,050		
16,380	--	--	17,390	18,370	344,300	344,300	--	296,200	--	--	20,440		
16,380	--	--	17,390	18,370	344,300	344,300	--	296,200	--	--	17,610		
16,380	--	--	17,390	18,370	344,300	344,300	--	296,200	--	--	21,510		
18,420	--	--	19,570	20,670	387,400	387,400	--	333,200	--	--	24,040		
19,450	--	--	20,650	21,820	408,900	408,900	--	351,700	--	--	22,780		
19,450	--	--	20,650	21,820	408,900	408,900	--	351,700	--	--	25,330		
19,450	--	--	20,650	21,820	408,900	408,900	--	351,700	--	--	25,330		
22,520	--	--	23,910	25,260	473,400	473,400	--	407,200	--	--	27,290		
22,520	--	--	23,910	25,260	473,400	473,400	--	407,200	--	--	30,350		
--	--	--	18,360	19,330	361,800	--	--	--	--	--	21,800		
--	--	--	20,660	21,750	407,000	--	--	--	--	--	25,660		
--	--	--	21,810	22,960	429,600	--	--	--	--	--	24,300		
--	--	--	21,810	22,960	429,600	--	--	--	--	--	27,040		
--	--	--	21,810	22,960	429,600	--	--	--	--	--	27,040		
--	--	--	20,270	21,200	395,600	--	--	--	--	--	24,590		
--	--	--	22,810	23,850	445,100	--	--	--	--	--	28,990		
--	--	--	24,070	25,170	469,800	--	--	--	--	--	27,410		
--	--	--	24,070	25,170	469,800	--	--	--	--	--	30,550		
--	--	--	24,070	25,170	469,800	--	--	--	--	--	30,550		
3,960	--	--	3,930	4,330	107,200	107,200	107,200	72,000	--	--	4,350		
5,440	--	--	5,400	5,960	147,400	147,400	147,400	99,000	--	--	5,480		
7,910	--	--	7,860	8,660	214,400	214,400	214,400	144,000	--	--	8,490		
7,910	--	--	7,860	8,660	214,400	214,400	214,400	144,000	--	--	7,400		
7,910	--	--	7,860	8,660	214,400	214,400	214,400	144,000	--	--	8,940		
8,900	--	--	8,840	9,740	241,200	241,200	241,200	162,000	--	--	9,930		
9,390	--	--	9,340	10,290	254,600	254,600	254,600	171,000	--	--	9,470		
9,390	--	--	9,340	10,290	254,600	254,600	254,600	171,000	--	--	10,460		
9,390	--	--	9,340	10,290	254,600	254,600	254,600	171,000	--	--	10,460		
--	4,580	--	4,550	4,980	123,100	123,100	123,100	--	123,100	--	5,070		
--	6,300	--	6,250	6,850	169,200	169,200	169,200	--	169,200	--	6,390		

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		PE	NOM Body Wall	NOM ID	Drift Diameter	Product Grade		Pipe Body	Improved Buttress Thd	
	Non-Upset	Upset								Non-Upset	Non-Upset
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
4.000	--	11.00	10.47	0.262	3.476	3.351	L80	8,800	9,170	9170	9170
4.000	--	11.00	10.47	0.262	3.476	3.351	N80 Type 1	8,800	9,170	9170	9170
4.000	--	11.00	10.47	0.262	3.476	3.351	N80	8,800	9,170	9170	9170
4.000	--	11.00	10.47	0.262	3.476	3.351	C90	9,590	10,320	10320	10320
4.000	--	11.00	10.47	0.262	3.476	3.351	R95	9,980	10,890	10890	10890
4.000	--	11.00	10.47	0.262	3.476	3.351	T95	9,980	10,890	10890	10890
4.000	--	11.00	10.47	0.262	3.476	3.351	USS C95	9,980	10,890	10890	10890
4.000	--	11.00	10.47	0.262	3.476	3.351	P110 SR16	11,050	12,610	12610	12610
4.000	--	11.00	10.47	0.262	3.476	3.351	P110	11,050	12,610	12610	12610
4.000	13.20	--	12.95	0.330	3.340	3.215	L80	12,110	11,550	--	--
4.000	13.20	--	12.95	0.330	3.340	3.215	C90	13,620	12,990	--	--
4.000	13.20	--	12.95	0.330	3.340	3.215	R95	14,380	13,720	--	--
4.000	13.20	--	12.95	0.330	3.340	3.215	T95	14,380	13,720	--	--
4.000	13.20	--	12.95	0.330	3.340	3.215	USS C95	14,380	13,720	--	--
4.000	16.10	--	15.90	0.415	3.170	3.045	L80	14,880	14,520	--	--
4.000	16.10	--	15.90	0.415	3.170	3.045	C90	16,740	16,340	--	--
4.000	16.10	--	15.90	0.415	3.170	3.045	R95	17,670	17,250	--	--
4.000	16.10	--	15.90	0.415	3.170	3.045	T95	17,670	17,250	--	--
4.000	16.10	--	15.90	0.415	3.170	3.045	USS C95	17,670	17,250	--	--
4.000	18.90	--	18.71	0.500	3.000	2.875	L80	17,500	17,500	--	--
4.000	18.90	--	18.71	0.500	3.000	2.875	C90	19,690	19,690	--	--
4.000	18.90	--	18.71	0.500	3.000	2.875	R95	20,780	20,780	--	--
4.000	18.90	--	18.71	0.500	3.000	2.875	T95	20,780	20,780	--	--
4.000	18.90	--	18.71	0.500	3.000	2.875	USS C95	20,780	20,780	--	--
4.000	22.20	--	22.11	0.610	2.780	2.655	L80	20,680	21,350	--	--
4.000	22.20	--	22.11	0.610	2.780	2.655	C90	23,260	24,020	--	--
4.000	22.20	--	22.11	0.610	2.780	2.655	R95	24,560	25,350	--	--
4.000	22.20	--	22.11	0.610	2.780	2.655	T95	24,560	25,350	--	--
4.000	22.20	--	22.11	0.610	2.780	2.655	USS C95	24,560	25,350	--	--
4.500	12.60	12.75	12.25	0.271	3.958	3.833	H40	4,490	4,220	4220	4220
4.500	12.60	12.75	12.25	0.271	3.958	3.833	J55	5,730	5,800	5800	5800
4.500	12.60	12.75	12.25	0.271	3.958	3.833	L80	7,500	8,430	8430	8430
4.500	12.60	12.75	12.25	0.271	3.958	3.833	N80 Type 1	7,500	8,430	8430	8430
4.500	12.60	12.75	12.25	0.271	3.958	3.833	N80	7,500	8,430	8430	8430
4.500	12.60	12.75	12.25	0.271	3.958	3.833	C90	8,120	9,480	9480	9480
4.500	12.60	12.75	12.25	0.271	3.958	3.833	R95	8,410	10,010	10010	10010
4.500	12.60	12.75	12.25	0.271	3.958	3.833	T95	8,410	10,010	10010	10010
4.500	12.60	12.75	12.25	0.271	3.958	3.833	USS C95	8,410	10,010	10010	10010
4.500	12.60	12.75	12.25	0.271	3.958	3.833	P110 SR16	9,200	11,590	11590	11590
4.500	12.60	12.75	12.25	0.271	3.958	3.833	P110	9,200	11,590	11590	11590
4.500	15.20	--	15.00	0.337	3.826	3.701	L80	11,080	10,480	--	--
4.500	15.20	--	15.00	0.337	3.826	3.701	C90	12,220	11,800	--	--
4.500	15.20	--	15.00	0.337	3.826	3.701	R95	12,760	12,450	--	--
4.500	15.20	--	15.00	0.337	3.826	3.701	T95	12,760	12,450	--	--
4.500	15.20	--	15.00	0.337	3.826	3.701	USS C95	12,760	12,450	--	--
4.500	17.00	--	16.74	0.380	3.740	3.615	L80	12,370	11,820	--	--

Internal Yield Pressure					Tension						Ductile Rupture Capped End
					Yield Pipe Body	Threaded & Coupled Joint Strength					
Round Thread		Lame' - Von Mises		Improved Buttress Thd		Round Thread					
NUE Non-Upset	Upset EUE Regular	Special Clr Special Clr	Open End	Capped End		Non-Upset Regular		Special Clr	NUE Regular	Upset EUE Regular	
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi
--	9,170	--	9,090	9,960	246,200	246,200	246,200	--	246,200	--	9,920
--	9,170	--	9,090	9,960	246,200	246,200	246,200	--	246,200	--	8,620
--	9,170	--	9,090	9,960	246,200	246,200	246,200	--	246,200	--	10,440
--	10,320	--	10,230	11,200	276,900	276,900	276,900	--	276,900	--	11,600
--	10,890	--	10,800	11,830	292,300	292,300	292,300	--	292,300	--	11,050
--	10,890	--	10,800	11,830	292,300	292,300	292,300	--	292,300	--	12,220
--	10,890	--	10,800	11,830	292,300	292,300	292,300	--	292,300	--	12,220
--	12,610	--	12,500	13,690	338,500	338,500	338,500	--	338,500	--	13,250
--	12,610	--	12,500	13,690	338,500	338,500	338,500	--	338,500	--	14,650
--	--	--	11,400	12,350	304,400	--	--	--	--	--	12,660
--	--	--	12,820	13,890	342,500	--	--	--	--	--	14,830
--	--	--	13,530	14,660	361,500	--	--	--	--	--	14,110
--	--	--	13,530	14,660	361,500	--	--	--	--	--	15,630
--	--	--	13,530	14,660	361,500	--	--	--	--	--	15,630
--	--	--	14,220	15,220	373,900	--	--	--	--	--	16,200
--	--	--	16,000	17,120	420,700	--	--	--	--	--	19,010
--	--	--	16,890	18,070	444,000	--	--	--	--	--	18,050
--	--	--	16,890	18,070	444,000	--	--	--	--	--	20,030
--	--	--	16,890	18,070	444,000	--	--	--	--	--	20,030
--	--	--	16,970	17,960	439,800	--	--	--	--	--	19,860
--	--	--	19,100	20,210	494,800	--	--	--	--	--	23,350
--	--	--	20,160	21,330	522,300	--	--	--	--	--	22,130
--	--	--	20,160	21,330	522,300	--	--	--	--	--	24,600
--	--	--	20,160	21,330	522,300	--	--	--	--	--	24,600
--	--	--	20,400	21,320	519,800	--	--	--	--	--	24,790
--	--	--	22,950	23,990	584,700	--	--	--	--	--	29,230
--	--	--	24,230	25,320	617,200	--	--	--	--	--	27,630
--	--	--	24,230	25,320	617,200	--	--	--	--	--	30,790
--	--	--	24,230	25,320	617,200	--	--	--	--	--	30,790
4,220	4,220	--	4,190	4,600	144,000	144,000	144,000	104,400	144,000	--	4,650
5,800	5,800	--	5,760	6,330	198,000	198,000	198,000	143,500	198,000	--	5,850
8,430	8,430	--	8,370	9,200	288,000	288,000	288,000	208,700	288,000	--	9,080
8,430	8,430	--	8,370	9,200	288,000	288,000	288,000	208,700	288,000	--	7,900
8,430	8,430	--	8,370	9,200	288,000	288,000	288,000	208,700	288,000	--	9,560
9,480	9,480	--	9,420	10,350	324,000	324,000	324,000	234,800	324,000	--	10,620
10,010	10,010	--	9,940	10,930	342,000	342,000	342,000	247,900	342,000	--	10,120
10,010	10,010	--	9,940	10,930	342,000	342,000	342,000	247,900	342,000	--	11,190
10,010	10,010	--	9,940	10,930	342,000	342,000	342,000	247,900	342,000	--	11,190
11,590	11,590	--	11,510	12,650	396,000	396,000	396,000	287,000	396,000	--	12,130
11,590	11,590	--	11,510	12,650	396,000	396,000	396,000	287,000	396,000	--	13,400
--	--	--	10,370	11,290	352,600	--	--	--	--	--	11,420
--	--	--	11,670	12,700	396,600	--	--	--	--	--	13,370
--	--	--	12,310	13,400	418,700	--	--	--	--	--	12,730
--	--	--	12,310	13,400	418,700	--	--	--	--	--	14,090
--	--	--	12,310	13,400	418,700	--	--	--	--	--	14,090
--	--	--	11,660	12,610	393,400	--	--	--	--	--	12,980

TUBING TABLES

Dimensional & Grade Designators								Collapse Resistance	Internal Yield Pressure		
OD Size	Weight		PE	NOM Body Wall	NOM ID	Drift Diameter	Product Grade		Pipe Body	Improved Buttress Thd	
	Non-Upset	Upset								Non-Upset	Non-Upset
in.	lb/ft	lb/ft	lb/ft	in.	in.	in.		psi	psi	psi	psi
4.500	17.00	--	16.74	0.380	3.740	3.615	C90	13,920	13,300	--	--
4.500	17.00	--	16.74	0.380	3.740	3.615	R95	14,690	14,040	--	--
4.500	17.00	--	16.74	0.380	3.740	3.615	T95	14,690	14,040	--	--
4.500	17.00	--	16.74	0.380	3.740	3.615	USS C95	14,690	14,040	--	--
4.500	18.90	--	18.71	0.430	3.640	3.515	L80	13,830	13,380	--	--
4.500	18.90	--	18.71	0.430	3.640	3.515	C90	15,560	15,050	--	--
4.500	18.90	--	18.71	0.430	3.640	3.515	R95	16,420	15,890	--	--
4.500	18.90	--	18.71	0.430	3.640	3.515	T95	16,420	15,890	--	--
4.500	18.90	--	18.71	0.430	3.640	3.515	USS C95	16,420	15,890	--	--
4.500	21.50	--	21.38	0.500	3.500	3.375	L80	15,800	15,560	--	--
4.500	21.50	--	21.38	0.500	3.500	3.375	C90	17,780	17,500	--	--
4.500	21.50	--	21.38	0.500	3.500	3.375	R95	18,770	18,470	--	--
4.500	21.50	--	21.38	0.500	3.500	3.375	T95	18,770	18,470	--	--
4.500	21.50	--	21.38	0.500	3.500	3.375	USS C95	18,770	18,470	--	--
4.500	23.70	--	23.59	0.560	3.380	3.255	L80	17,430	17,420	--	--
4.500	23.70	--	23.59	0.560	3.380	3.255	C90	19,610	19,600	--	--
4.500	23.70	--	23.59	0.560	3.380	3.255	R95	20,700	20,690	--	--
4.500	23.70	--	23.59	0.560	3.380	3.255	T95	20,700	20,690	--	--
4.500	23.70	--	23.59	0.560	3.380	3.255	USS C95	20,700	20,690	--	--
4.500	26.00	--	26.06	0.630	3.240	3.115	L80	19,260	19,600	--	--
4.500	26.00	--	26.06	0.630	3.240	3.115	C90	21,670	22,050	--	--
4.500	26.00	--	26.06	0.630	3.240	3.115	R95	22,880	23,280	--	--
4.500	26.00	--	26.06	0.630	3.240	3.115	T95	22,880	23,280	--	--
4.500	26.00	--	26.06	0.630	3.240	3.115	USS C95	22,880	23,280	--	--
5.500	--	--	16.89	0.304	4.892	4.767	J55	4,910	5,320	5320	--
5.500	--	--	16.89	0.304	4.892	4.767	L80	6,290	7,740	7740	--
5.500	--	--	16.89	0.304	4.892	4.767	N80 Type 1	6,290	7,740	7740	--
5.500	--	--	16.89	0.304	4.892	4.767	N80	6,290	7,740	7740	--
5.500	--	--	16.89	0.304	4.892	4.767	C90	6,740	8,710	8710	--
5.500	--	--	16.89	0.304	4.892	4.767	R95	6,940	9,190	9190	--
5.500	--	--	16.89	0.304	4.892	4.767	T95	6,940	9,190	9190	--
5.500	--	--	16.89	0.304	4.892	4.767	USS C95	6,940	9,190	9190	--
5.500	--	--	16.89	0.304	4.892	4.767	P110 SR16	7,480	10,640	10640	--
5.500	--	--	16.89	0.304	4.892	4.767	P110	7,480	10,640	10640	--

Internal Yield Pressure					Tension						Ductile Rupture Capped End
					Yield Pipe Body	Threaded & Coupled Joint Strength					
Round Thread		Lame' - Von Mises		Improved Buttress Thd		Round Thread					
NUE	Upset EUE		Open	Capped		Non-Upset		NUE	Upset EUE		
Non-Upset	Regular	Special Clr	End	End		Regular	Special Clr	Regular	Regular	Special Clr	
psi	psi	psi	psi	psi	lb	lb	lb	lb	lb	lb	psi
--	--	--	13,120	14,190	442,600	--	--	--	--	--	15,210
--	--	--	13,850	14,980	467,200	--	--	--	--	--	14,470
--	--	--	13,850	14,980	467,200	--	--	--	--	--	16,020
--	--	--	13,850	14,980	467,200	--	--	--	--	--	16,020
--	--	--	13,140	14,130	439,800	--	--	--	--	--	14,820
--	--	--	14,780	15,890	494,800	--	--	--	--	--	17,380
--	--	--	15,610	16,770	522,300	--	--	--	--	--	16,520
--	--	--	15,610	16,770	522,300	--	--	--	--	--	18,310
--	--	--	15,610	16,770	522,300	--	--	--	--	--	18,310
--	--	--	15,180	16,180	502,600	--	--	--	--	--	17,450
--	--	--	17,080	18,210	565,500	--	--	--	--	--	20,490
--	--	--	18,030	19,220	596,900	--	--	--	--	--	19,450
--	--	--	18,030	19,220	596,900	--	--	--	--	--	21,590
--	--	--	18,030	19,220	596,900	--	--	--	--	--	21,590
--	--	--	16,900	17,890	554,600	--	--	--	--	--	19,760
--	--	--	19,020	20,130	623,900	--	--	--	--	--	23,230
--	--	--	20,070	21,250	658,500	--	--	--	--	--	22,030
--	--	--	20,070	21,250	658,500	--	--	--	--	--	24,480
--	--	--	20,070	21,250	658,500	--	--	--	--	--	24,480
--	--	--	18,860	19,820	612,800	--	--	--	--	--	22,520
--	--	--	21,220	22,300	689,400	--	--	--	--	--	26,520
--	--	--	22,400	23,540	727,700	--	--	--	--	--	25,100
--	--	--	22,400	23,540	727,700	--	--	--	--	--	27,940
--	--	--	22,400	23,540	727,700	--	--	--	--	--	27,940
--	--	--	5,290	5,830	272,900	272,900	--	0	0	0	5,360
--	--	--	7,690	8,480	397,000	397,000	--	0	0	0	8,300
--	--	--	7,690	8,480	397,000	397,000	--	0	0	0	7,230
--	--	--	7,690	8,480	397,000	397,000	--	0	0	0	8,740
--	--	--	8,650	9,540	446,600	446,600	--	0	0	0	9,700
--	--	--	9,130	10,070	471,400	471,400	--	0	0	0	9,250
--	--	--	9,130	10,070	471,400	471,400	--	0	0	0	10,220
--	--	--	9,130	10,070	471,400	471,400	--	0	0	0	10,220
--	--	--	10,580	11,660	545,800	545,800	--	0	0	0	11,090
--	--	--	10,580	11,660	545,800	545,800	--	0	0	0	12,250

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	9.50	9.41	0.205	4.090	3.965	--	H40	2,760
4 1/2	9.50	9.41	0.205	4.090	3.965	--	J55	3,310
4 1/2	9.50	9.41	0.205	4.090	3.965	--	K55	3,310
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS GT80S	3,900
4 1/2	9.50	9.41	0.205	4.090	3.965	--	L80	3,900
4 1/2	9.50	9.41	0.205	4.090	3.965	--	L80 HC	4,920
4 1/2	9.50	9.41	0.205	4.090	3.965	--	L80 HP	5,330
4 1/2	9.50	9.41	0.205	4.090	3.965	--	N80 Type 1	3,900
4 1/2	9.50	9.41	0.205	4.090	3.965	--	N80	3,900
4 1/2	9.50	9.41	0.205	4.090	3.965	--	N80 HC	5,040
4 1/2	9.50	9.41	0.205	4.090	3.965	--	N80 HP	5,480
4 1/2	9.50	9.41	0.205	4.090	3.965	--	C90	4,080
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS C90	4,080
4 1/2	9.50	9.41	0.205	4.090	3.965	--	R95	4,200
4 1/2	9.50	9.41	0.205	4.090	3.965	--	T95	4,200
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS C95	4,200
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS C100	4,310
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS RYS100	4,310
4 1/2	9.50	9.41	0.205	4.090	3.965	--	C110	4,500
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS C110	4,500
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS RYH110	4,500
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS RYS110	4,500
4 1/2	9.50	9.41	0.205	4.090	3.965	--	P110 SR16	4,500
4 1/2	9.50	9.41	0.205	4.090	3.965	--	P110	4,500
4 1/2	9.50	9.41	0.205	4.090	3.965	--	P110 HC	5,550
4 1/2	9.50	9.41	0.205	4.090	3.965	--	P110 HP	6,020
4 1/2	9.50	9.41	0.205	4.090	3.965	--	Q125	4,720
4 1/2	9.50	9.41	0.205	4.090	3.965	--	Q125 HC	5,670
4 1/2	9.50	9.41	0.205	4.090	3.965	--	Q125 HP	6,150
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS 140	4,840
4 1/2	9.50	9.41	0.205	4.090	3.965	--	USS V150	4,870
4 1/2	10.50	10.24	0.224	4.052	3.927	--	J55	4,010
4 1/2	10.50	10.24	0.224	4.052	3.927	--	K55	4,010
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS GT80S	4,940
4 1/2	10.50	10.24	0.224	4.052	3.927	--	L80	4,940
4 1/2	10.50	10.24	0.224	4.052	3.927	--	L80 HC	5,920
4 1/2	10.50	10.24	0.224	4.052	3.927	--	L80 HP	6,370
4 1/2	10.50	10.24	0.224	4.052	3.927	--	N80 Type 1	4,940
4 1/2	10.50	10.24	0.224	4.052	3.927	--	N80	4,940
4 1/2	10.50	10.24	0.224	4.052	3.927	--	N80 HC	6,100
4 1/2	10.50	10.24	0.224	4.052	3.927	--	N80 HP	6,630
4 1/2	10.50	10.24	0.224	4.052	3.927	--	C90	5,200
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS C90	5,200
4 1/2	10.50	10.24	0.224	4.052	3.927	--	R95	5,310
4 1/2	10.50	10.24	0.224	4.052	3.927	--	T95	5,310

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
111	77	--	--	3,180	3,180	--	--	3,170	3,530	3,470	5.000	--
152	101	--	--	4,380	4,380	--	--	4,360	4,850	4,370	5.000	--
152	112	--	--	4,380	4,380	--	--	4,360	4,850	5,540	5.000	--
221	--	--	--	6,360	--	--	--	6,340	7,050	6,770	--	--
221	--	--	--	6,360	--	--	--	6,340	7,050	6,770	--	--
221	--	--	--	6,360	--	--	--	6,340	7,050	6,770	--	--
235	--	--	--	6,760	--	--	--	6,740	7,490	6,770	--	--
221	--	--	--	6,360	--	--	--	6,340	7,050	5,900	--	--
221	--	--	--	6,360	--	--	--	6,340	7,050	7,130	--	--
221	--	--	--	6,360	--	--	--	6,340	7,050	7,130	--	--
263	--	--	--	7,560	--	--	--	7,530	8,380	7,540	--	--
249	--	--	--	7,160	--	--	--	7,130	7,940	7,910	--	--
249	--	--	--	7,160	--	--	--	7,130	7,940	7,910	--	--
263	--	--	--	7,560	--	--	--	7,530	8,380	7,540	--	--
263	--	--	--	7,560	--	--	--	7,530	8,380	8,330	--	--
263	--	--	--	7,560	--	--	--	7,530	8,380	8,330	--	--
277	--	--	--	7,960	--	--	--	7,920	8,820	8,750	--	--
277	--	--	--	7,960	--	--	--	7,920	8,820	8,750	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,190	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,590	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,590	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,590	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,050	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,990	--	--
304	--	--	--	8,750	--	--	--	8,720	9,700	9,990	--	--
346	--	--	--	9,940	--	--	--	9,900	11,020	10,470	--	--
346	--	--	--	9,940	--	--	--	9,900	11,020	10,870	--	--
346	--	--	--	9,940	--	--	--	9,900	11,020	10,870	--	--
373	--	--	--	10,740	--	--	--	10,700	11,900	11,330	--	--
387	--	--	--	11,140	--	--	--	11,090	12,340	12,170	--	--
415	--	--	--	11,930	--	--	--	11,890	13,230	13,040	--	--
165	132	--	203	4,790	4,790	--	4,790	4,770	5,280	4,810	5.000	4.875
165	146	--	249	4,790	4,790	--	4,790	4,770	5,280	6,090	5.000	4.875
241	--	--	--	6,970	--	--	--	6,940	7,680	7,440	--	--
241	--	--	--	6,970	--	--	--	6,940	7,680	7,440	--	--
241	--	--	--	6,970	--	--	--	6,940	7,680	7,440	--	--
256	--	--	--	7,400	--	--	--	7,370	8,160	7,440	--	--
241	--	--	--	6,970	--	--	--	6,940	7,680	6,490	--	--
241	--	--	--	6,970	--	--	--	6,940	7,680	7,840	--	--
241	--	--	--	6,970	--	--	--	6,940	7,680	7,840	--	--
286	--	--	--	8,280	--	--	--	8,240	9,120	8,290	--	--
271	--	--	--	7,840	--	--	--	7,800	8,640	8,700	--	--
271	--	--	--	7,840	--	--	--	7,800	8,640	8,700	--	--
286	--	--	--	8,280	--	--	--	8,240	9,120	8,290	--	--
286	--	--	--	8,280	--	--	--	8,240	9,120	9,150	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS C95	5,310
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS C100	5,410
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS RYS100	5,410
4 1/2	10.50	10.24	0.224	4.052	3.927	--	C110	5,550
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS C110	5,550
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS RYH110	5,550
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS RYS110	5,550
4 1/2	10.50	10.24	0.224	4.052	3.927	--	P110 SR16	5,550
4 1/2	10.50	10.24	0.224	4.052	3.927	--	P110	5,550
4 1/2	10.50	10.24	0.224	4.052	3.927	--	P110 HC	6,900
4 1/2	10.50	10.24	0.224	4.052	3.927	--	P110 HP	7,470
4 1/2	10.50	10.24	0.224	4.052	3.927	--	Q125	5,830
4 1/2	10.50	10.24	0.224	4.052	3.927	--	Q125 HC	7,090
4 1/2	10.50	10.24	0.224	4.052	3.927	--	Q125 HP	7,670
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS 140	6,110
4 1/2	10.50	10.24	0.224	4.052	3.927	--	USS V150	6,250
4 1/2	11.60	11.36	0.250	4.000	3.875	--	J55	4,960
4 1/2	11.60	11.36	0.250	4.000	3.875	--	K55	4,960
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS GT80S	6,350
4 1/2	11.60	11.36	0.250	4.000	3.875	--	L80	6,350
4 1/2	11.60	11.36	0.250	4.000	3.875	--	L80 HC	7,270
4 1/2	11.60	11.36	0.250	4.000	3.875	--	L80 HP	7,750
4 1/2	11.60	11.36	0.250	4.000	3.875	--	N80 Type 1	6,350
4 1/2	11.60	11.36	0.250	4.000	3.875	--	N80	6,350
4 1/2	11.60	11.36	0.250	4.000	3.875	--	N80 HC	7,540
4 1/2	11.60	11.36	0.250	4.000	3.875	--	N80 HP	8,190
4 1/2	11.60	11.36	0.250	4.000	3.875	--	C90	6,820
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS C90	6,820
4 1/2	11.60	11.36	0.250	4.000	3.875	--	R95	7,030
4 1/2	11.60	11.36	0.250	4.000	3.875	--	T95	7,030
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS C95	7,030
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS C100	7,220
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS RYS100	7,220
4 1/2	11.60	11.36	0.250	4.000	3.875	--	C110	7,580
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS C110	7,580
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS RYH110	7,580
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS RYS110	7,580
4 1/2	11.60	11.36	0.250	4.000	3.875	--	P110 SR16	7,580
4 1/2	11.60	11.36	0.250	4.000	3.875	--	P110	7,580
4 1/2	11.60	11.36	0.250	4.000	3.875	--	P110 HC	8,830
4 1/2	11.60	11.36	0.250	4.000	3.875	--	P110 HP	9,540
4 1/2	11.60	11.36	0.250	4.000	3.875	--	Q125	8,000
4 1/2	11.60	11.36	0.250	4.000	3.875	--	Q125 HC	9,150
4 1/2	11.60	11.36	0.250	4.000	3.875	--	Q125 HP	9,890
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS 140	8,300

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
286	--	--	--	8,280	--	--	--	8,240	9,120	9,150	--	--			
301	--	--	--	8,710	--	--	--	8,670	9,600	9,610	--	--			
301	--	--	--	8,710	--	--	--	8,670	9,600	9,610	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	10,100	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	10,540	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	10,540	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	10,540	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	9,940	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	10,980	--	--			
331	--	--	--	9,580	--	--	--	9,540	10,560	10,980	--	--			
376	--	--	--	10,890	--	--	--	10,840	12,000	11,510	--	--			
376	--	--	--	10,890	--	--	--	10,840	12,000	11,950	--	--			
376	--	--	--	10,890	--	--	--	10,840	12,000	11,950	--	--			
406	--	--	--	11,760	--	--	--	11,700	12,960	12,450	--	--			
421	--	--	--	12,200	--	--	--	12,140	13,440	13,380	--	--			
451	--	--	--	13,070	--	--	--	13,000	14,400	14,340	--	--			
184	154	162	225	5,350	5,350	5,350	5,350	5,320	5,860	5,390	5.000	4.875			
184	170	180	277	5,350	5,350	5,350	5,350	5,320	5,860	6,830	5.000	4.875			
267	--	212	291	7,790	--	7,790	7,790	7,740	8,520	8,360	5.000	4.875			
267	--	212	291	7,790	--	7,790	7,790	7,740	8,520	8,360	5.000	4.875			
267	--	212	291	7,790	--	7,790	7,790	7,740	8,520	8,360	5.000	4.875			
284	--	212	294	8,270	--	8,270	8,270	8,220	9,060	8,360	5.000	4.875			
267	--	223	304	7,790	--	7,790	7,790	7,740	8,520	7,280	5.000	4.875			
267	--	223	304	7,790	--	7,790	7,790	7,740	8,520	8,800	5.000	4.875			
267	--	223	304	7,790	--	7,790	7,790	7,740	8,520	8,800	5.000	4.875			
317	--	234	325	9,250	--	9,250	9,250	9,190	10,120	9,310	5.000	4.875			
300	--	223	309	8,760	--	8,760	8,760	8,710	9,590	9,770	5.000	4.875			
300	--	223	309	8,760	--	8,760	8,760	8,710	9,590	9,770	5.000	4.875			
317	--	234	325	9,250	--	9,250	9,250	9,190	10,120	9,310	5.000	4.875			
317	--	234	325	9,250	--	9,250	9,250	9,190	10,120	10,280	5.000	4.875			
317	--	234	325	9,250	--	9,250	9,250	9,190	10,120	10,280	5.000	4.875			
334	--	245	341	9,730	--	9,730	9,730	9,680	10,660	10,800	5.000	4.875			
334	--	245	341	9,730	--	9,730	9,730	9,680	10,660	10,800	5.000	4.875			
367	--	--	--	10,710	--	--	--	10,640	11,720	11,340	--	--			
367	--	--	--	10,710	--	--	--	10,640	11,720	11,840	--	--			
367	--	--	--	10,710	--	--	--	10,640	11,720	11,840	--	--			
367	--	--	--	10,710	--	--	--	10,640	11,720	11,840	--	--			
367	--	279	385	10,710	--	10,710	10,710	10,640	11,720	11,160	5.000	4.875			
367	--	279	385	10,710	--	10,710	10,710	10,640	11,720	12,330	5.000	4.875			
367	--	279	385	10,710	--	10,710	10,710	10,640	11,720	12,330	5.000	4.875			
417	--	290	407	12,170	--	12,170	12,170	12,090	13,320	12,920	5.000	4.875			
417	--	--	--	12,170	--	--	--	12,090	13,320	13,420	--	--			
417	--	--	--	12,170	--	--	--	12,090	13,320	13,420	--	--			
451	--	--	--	13,140	--	--	--	13,060	14,390	13,980	--	--			
467	--	--	--	13,630	--	--	--	13,550	14,920	15,020	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	11.60	11.36	0.250	4.000	3.875	--	USS V150	8,430
4 1/2	12.60	12.25	0.271	3.958	3.833	--	J55	5,720
4 1/2	12.60	12.25	0.271	3.958	3.833	--	K55	5,720
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS GT80S	7,500
4 1/2	12.60	12.25	0.271	3.958	3.833	--	L80	7,500
4 1/2	12.60	12.25	0.271	3.958	3.833	--	L80 HC	8,320
4 1/2	12.60	12.25	0.271	3.958	3.833	--	L80 HP	8,820
4 1/2	12.60	12.25	0.271	3.958	3.833	--	N80 Type 1	7,500
4 1/2	12.60	12.25	0.271	3.958	3.833	--	N80	7,500
4 1/2	12.60	12.25	0.271	3.958	3.833	--	N80 HC	8,660
4 1/2	12.60	12.25	0.271	3.958	3.833	--	N80 HP	9,420
4 1/2	12.60	12.25	0.271	3.958	3.833	--	C90	8,120
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS C90	8,120
4 1/2	12.60	12.25	0.271	3.958	3.833	--	R95	8,410
4 1/2	12.60	12.25	0.271	3.958	3.833	--	T95	8,410
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS C95	8,410
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS C100	8,680
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS RYS100	8,680
4 1/2	12.60	12.25	0.271	3.958	3.833	--	C110	9,200
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS C110	9,200
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS RYH110	9,200
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS RYS110	9,200
4 1/2	12.60	12.25	0.271	3.958	3.833	--	P110 SR16	9,200
4 1/2	12.60	12.25	0.271	3.958	3.833	--	P110	9,200
4 1/2	12.60	12.25	0.271	3.958	3.833	--	P110 HC	10,400
4 1/2	12.60	12.25	0.271	3.958	3.833	--	P110 HP	11,230
4 1/2	12.60	12.25	0.271	3.958	3.833	--	Q125	9,890
4 1/2	12.60	12.25	0.271	3.958	3.833	--	Q125 HC	10,860
4 1/2	12.60	12.25	0.271	3.958	3.833	--	Q125 HP	11,720
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS 140	10,450
4 1/2	12.60	12.25	0.271	3.958	3.833	--	USS V150	10,750
4 1/2	13.50	13.05	0.290	3.920	3.795	--	J55	6,420
4 1/2	13.50	13.05	0.290	3.920	3.795	--	K55	6,420
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS GT80S	8,540
4 1/2	13.50	13.05	0.290	3.920	3.795	--	L80	8,540
4 1/2	13.50	13.05	0.290	3.920	3.795	--	L80 HC	9,240
4 1/2	13.50	13.05	0.290	3.920	3.795	--	L80 HP	9,760
4 1/2	13.50	13.05	0.290	3.920	3.795	--	N80 Type 1	8,540
4 1/2	13.50	13.05	0.290	3.920	3.795	--	N80	8,540
4 1/2	13.50	13.05	0.290	3.920	3.795	--	N80 HC	9,650
4 1/2	13.50	13.05	0.290	3.920	3.795	--	N80 HP	10,490
4 1/2	13.50	13.05	0.290	3.920	3.795	--	C90	9,300
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS C90	9,300
4 1/2	13.50	13.05	0.290	3.920	3.795	--	R95	9,660
4 1/2	13.50	13.05	0.290	3.920	3.795	--	T95	9,660

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter					
				Pipe Body	API Historical			Lame' - Von Mises			Regular Coupling	Special Clr Coupling				
Joint Strength, 1,000 lbs					Threaded & Coupled			Open End	Capped End							
Yield	Threaded and Coupled				STC	LTC	BTC									
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.				
501	--	--	--	14,600	--	--	--	14,510	15,980	16,100	--	--				
198	--	--	--	5,790	--	--	--	5,750	6,330	5,850	--	--				
198	--	--	--	5,790	--	--	--	5,750	6,330	7,410	--	--				
288	--	--	--	8,430	--	--	--	8,370	9,200	9,070	--	--				
288	--	--	--	8,430	--	--	--	8,370	9,200	9,070	--	--				
288	--	--	--	8,430	--	--	--	8,370	9,200	9,070	--	--				
306	--	--	--	8,950	--	--	--	8,890	9,780	9,070	--	--				
288	--	--	--	8,430	--	--	--	8,370	9,200	7,900	--	--				
288	--	--	--	8,430	--	--	--	8,370	9,200	9,550	--	--				
288	--	--	--	8,430	--	--	--	8,370	9,200	9,550	--	--				
342	--	--	--	10,010	--	--	--	9,940	10,930	10,110	--	--				
324	--	--	--	9,480	--	--	--	9,410	10,350	10,610	--	--				
324	--	--	--	9,480	--	--	--	9,410	10,350	10,610	--	--				
342	--	--	--	10,010	--	--	--	9,940	10,930	10,110	--	--				
342	--	--	--	10,010	--	--	--	9,940	10,930	11,170	--	--				
342	--	--	--	10,010	--	--	--	9,940	10,930	11,170	--	--				
360	--	--	--	10,530	--	--	--	10,460	11,500	11,730	--	--				
360	--	--	--	10,530	--	--	--	10,460	11,500	11,730	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	12,320	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	12,860	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	12,860	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	12,860	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	12,120	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	13,400	--	--				
396	--	--	--	11,590	--	--	--	11,510	12,650	13,400	--	--				
450	--	--	--	13,170	--	--	--	13,070	14,380	14,040	--	--				
450	--	--	--	13,170	--	--	--	13,070	14,380	14,580	--	--				
450	--	--	--	13,170	--	--	--	13,070	14,380	14,580	--	--				
486	--	--	--	14,220	--	--	--	14,120	15,530	15,190	--	--				
504	--	--	--	14,750	--	--	--	14,640	16,100	16,320	--	--				
540	--	--	--	15,800	--	--	--	15,690	17,250	17,490	--	--				
211	--	--	--	6,210	--	--	--	6,160	6,740	6,290	--	--				
211	--	--	--	6,210	--	--	--	6,160	6,740	7,970	--	--				
307	--	257	334	9,030	--	9,030	9,030	8,960	9,810	9,760	5.000	4.875				
307	--	257	334	9,030	--	9,030	9,030	8,960	9,810	9,760	5.000	4.875				
307	--	257	334	9,030	--	9,030	9,030	8,960	9,810	9,760	5.000	4.875				
326	--	257	337	9,600	--	9,600	9,600	9,520	10,420	9,760	5.000	4.875				
307	--	270	349	9,030	--	9,030	9,030	8,960	9,810	8,490	5.000	4.875				
307	--	270	349	9,030	--	9,030	9,030	8,960	9,810	10,270	5.000	4.875				
307	--	270	349	9,030	--	9,030	9,030	8,960	9,810	10,270	5.000	4.875				
364	--	284	374	10,720	--	10,660	9,790	10,640	11,650	10,870	5.000	4.875				
345	--	270	355	10,160	--	10,160	10,160	10,080	11,030	11,420	5.000	4.875				
345	--	270	355	10,160	--	10,160	10,160	10,080	11,030	11,420	5.000	4.875				
364	--	284	374	10,720	--	10,720	10,720	10,640	11,650	10,870	5.000	4.875				
364	--	284	374	10,720	--	10,720	10,720	10,640	11,650	12,020	5.000	4.875				

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS C95	9,660
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS C100	10,010
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS RYS100	10,010
4 1/2	13.50	13.05	0.290	3.920	3.795	--	C110	10,680
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS C110	10,680
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS RYH110	10,680
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS RYS110	10,680
4 1/2	13.50	13.05	0.290	3.920	3.795	--	P110 SR16	10,680
4 1/2	13.50	13.05	0.290	3.920	3.795	--	P110	10,680
4 1/2	13.50	13.05	0.290	3.920	3.795	--	P110 HC	11,810
4 1/2	13.50	13.05	0.290	3.920	3.795	--	P110 HP	12,730
4 1/2	13.50	13.05	0.290	3.920	3.795	--	Q125	11,600
4 1/2	13.50	13.05	0.290	3.920	3.795	--	Q125 HC	12,400
4 1/2	13.50	13.05	0.290	3.920	3.795	--	Q125 HP	13,360
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS 140	12,400
4 1/2	13.50	13.05	0.290	3.920	3.795	--	USS V150	12,870
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS GT80S	11,090
4 1/2	15.10	15.00	0.337	3.826	3.701	--	L80	11,090
4 1/2	15.10	15.00	0.337	3.826	3.701	--	L80 HC	11,410
4 1/2	15.10	15.00	0.337	3.826	3.701	--	L80 HP	11,990
4 1/2	15.10	15.00	0.337	3.826	3.701	--	N80 Type 1	11,090
4 1/2	15.10	15.00	0.337	3.826	3.701	--	N80	11,090
4 1/2	15.10	15.00	0.337	3.826	3.701	--	N80 HC	11,980
4 1/2	15.10	15.00	0.337	3.826	3.701	--	N80 HP	13,030
4 1/2	15.10	15.00	0.337	3.826	3.701	--	C90	12,230
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS C90	12,230
4 1/2	15.10	15.00	0.337	3.826	3.701	--	R95	12,770
4 1/2	15.10	15.00	0.337	3.826	3.701	--	T95	12,770
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS C95	12,770
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS C100	13,300
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS RYS100	13,300
4 1/2	15.10	15.00	0.337	3.826	3.701	--	C110	14,350
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS C110	14,350
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS RYH110	14,350
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS RYS110	14,350
4 1/2	15.10	15.00	0.337	3.826	3.701	--	P110 SR16	14,350
4 1/2	15.10	15.00	0.337	3.826	3.701	--	P110	14,350
4 1/2	15.10	15.00	0.337	3.826	3.701	--	P110 HC	15,130
4 1/2	15.10	15.00	0.337	3.826	3.701	--	P110 HP	16,290
4 1/2	15.10	15.00	0.337	3.826	3.701	--	Q125	15,840
4 1/2	15.10	15.00	0.337	3.826	3.701	--	Q125 HC	16,070
4 1/2	15.10	15.00	0.337	3.826	3.701	--	Q125 HP	17,270
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS 140	17,240
4 1/2	15.10	15.00	0.337	3.826	3.701	--	USS V150	18,110
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS GT80S	12,220

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
364	--	284	374	10,720	--	10,720	10,720	10,640	11,650	12,020	5.000	4.875		
384	--	297	392	11,290	--	11,290	11,290	11,200	12,260	12,620	5.000	4.875		
384	--	297	392	11,290	--	11,290	11,290	11,200	12,260	12,620	5.000	4.875		
422	--	--	--	12,420	--	--	--	12,320	13,490	13,260	--	--		
422	--	--	--	12,420	--	--	--	12,320	13,490	13,840	--	--		
422	--	--	--	12,420	--	--	--	12,320	13,490	13,840	--	--		
422	--	--	--	12,420	--	--	--	12,320	13,490	13,840	--	--		
422	--	338	443	12,420	--	12,420	12,420	12,320	13,490	13,040	5.000	4.875		
422	--	338	443	12,420	--	12,420	12,420	12,320	13,490	14,410	5.000	4.875		
422	--	338	443	12,420	--	12,420	12,420	12,320	13,490	14,410	5.000	4.875		
480	--	351	467	14,110	--	14,110	13,460	14,000	15,320	15,100	5.000	4.875		
480	--	--	--	14,110	--	--	--	14,000	15,320	15,680	--	--		
480	--	--	--	14,110	--	--	--	14,000	15,320	15,680	--	--		
518	--	--	--	15,240	--	--	--	15,120	16,550	16,350	--	--		
537	--	--	--	15,800	--	--	--	15,680	17,160	17,560	--	--		
575	--	--	--	16,930	--	--	--	16,800	18,390	18,820	--	--		
353	--	--	--	10,490	--	--	--	10,370	11,290	11,430	5.000	--		
353	--	308	384	10,490	--	10,490	9,790	10,370	11,290	11,430	5.000	4.875		
353	--	308	384	10,490	--	10,490	9,790	10,370	11,290	11,430	5.000	4.875		
375	--	308	388	11,140	--	10,660	9,790	11,020	11,990	11,430	5.000	4.875		
353	--	--	--	10,490	--	--	--	10,370	11,290	9,930	5.000	--		
353	--	325	401	10,490	--	10,490	9,790	10,370	11,290	12,030	5.000	4.875		
353	--	325	401	10,490	--	10,490	9,790	10,370	11,290	12,030	5.000	4.875		
419	--	341	429	12,460	--	10,660	9,790	12,320	13,400	12,730	5.000	4.875		
397	--	325	408	11,800	--	11,800	11,020	11,670	12,700	13,380	5.000	4.875		
397	--	325	408	11,800	--	11,800	11,020	11,670	12,700	13,380	5.000	4.875		
419	--	341	429	12,460	--	12,460	11,630	12,320	13,400	12,730	5.000	4.875		
419	--	341	429	12,460	--	12,460	11,630	12,320	13,400	14,080	5.000	4.875		
419	--	341	429	12,460	--	12,460	11,630	12,320	13,400	14,080	5.000	4.875		
441	--	357	450	13,110	--	13,110	12,240	12,970	14,110	14,790	5.000	4.875		
441	--	357	450	13,110	--	13,110	12,240	12,970	14,110	14,790	5.000	4.875		
485	--	--	--	14,420	--	--	--	14,270	15,520	15,540	--	--		
485	--	--	--	14,420	--	--	--	14,270	15,520	16,220	--	--		
485	--	--	--	14,420	--	--	--	14,270	15,520	16,220	--	--		
485	--	--	--	14,420	--	--	--	14,270	15,520	16,220	--	--		
485	--	406	509	14,420	--	14,420	13,460	14,270	15,520	15,270	5.000	4.875		
485	--	406	509	14,420	--	14,420	13,460	14,270	15,520	16,890	5.000	4.875		
485	--	406	509	14,420	--	14,420	13,460	14,270	15,520	16,890	5.000	4.875		
551	--	422	536	16,390	--	14,650	13,460	16,210	17,640	17,700	5.000	4.875		
551	--	438	554	16,390	--	16,390	15,300	16,210	17,640	18,380	5.000	--		
551	--	438	554	16,390	--	16,390	15,300	16,210	17,640	18,380	5.000	--		
595	--	454	578	17,700	--	16,650	15,300	17,510	19,050	19,160	5.000	--		
617	--	487	616	18,360	--	18,360	17,140	18,160	19,750	20,580	5.000	--		
661	--	519	658	19,670	--	19,670	18,360	19,450	21,160	22,060	5.000	--		
389	--	--	--	11,660	--	--	--	11,510	12,460	12,790	5.000	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	16.60	16.54	0.375	3.750	3.625	--	L80	12,220
4 1/2	16.60	16.54	0.375	3.750	3.625	--	L80 HC	13,100
4 1/2	16.60	16.54	0.375	3.750	3.625	--	L80 HP	13,730
4 1/2	16.60	16.54	0.375	3.750	3.625	--	N80 Type 1	12,220
4 1/2	16.60	16.54	0.375	3.750	3.625	--	N80	12,220
4 1/2	16.60	16.54	0.375	3.750	3.625	--	N80 HC	13,790
4 1/2	16.60	16.54	0.375	3.750	3.625	--	N80 HP	14,990
4 1/2	16.60	16.54	0.375	3.750	3.625	--	C90	13,750
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS C90	13,750
4 1/2	16.60	16.54	0.375	3.750	3.625	--	R95	14,510
4 1/2	16.60	16.54	0.375	3.750	3.625	--	T95	14,510
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS C95	14,510
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS C100	15,280
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS RYS100	15,280
4 1/2	16.60	16.54	0.375	3.750	3.625	--	C110	16,810
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS C110	16,810
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS RYH110	16,810
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS RYS110	16,810
4 1/2	16.60	16.54	0.375	3.750	3.625	--	P110 SR16	16,810
4 1/2	16.60	16.54	0.375	3.750	3.625	--	P110	16,810
4 1/2	16.60	16.54	0.375	3.750	3.625	--	P110 HC	17,680
4 1/2	16.60	16.54	0.375	3.750	3.625	--	P110 HP	19,010
4 1/2	16.60	16.54	0.375	3.750	3.625	--	Q125	19,100
4 1/2	16.60	16.54	0.375	3.750	3.625	--	Q125 HC	18,890
4 1/2	16.60	16.54	0.375	3.750	3.625	--	Q125 HP	20,260
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS 140	21,130
4 1/2	16.60	16.54	0.375	3.750	3.625	--	USS V150	22,330
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS GT80S	12,370
4 1/2	17.00	16.74	0.380	3.740	3.615	--	L80	12,370
4 1/2	17.00	16.74	0.380	3.740	3.615	--	L80 HC	13,320
4 1/2	17.00	16.74	0.380	3.740	3.615	--	L80 HP	13,950
4 1/2	17.00	16.74	0.380	3.740	3.615	--	N80 Type 1	12,370
4 1/2	17.00	16.74	0.380	3.740	3.615	--	N80	12,370
4 1/2	17.00	16.74	0.380	3.740	3.615	--	N80 HC	14,020
4 1/2	17.00	16.74	0.380	3.740	3.615	--	N80 HP	15,240
4 1/2	17.00	16.74	0.380	3.740	3.615	--	C90	13,920
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS C90	13,920
4 1/2	17.00	16.74	0.380	3.740	3.615	--	R95	14,690
4 1/2	17.00	16.74	0.380	3.740	3.615	--	T95	14,690
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS C95	14,690
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS C100	15,470
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS RYS100	15,470
4 1/2	17.00	16.74	0.380	3.740	3.615	--	C110	17,010
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS C110	17,010
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS RYH110	17,010

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
389	--	--	--	11,660	--	--	--	11,510	12,460	12,790	5.000	--		
389	--	--	--	11,660	--	--	--	11,510	12,460	12,790	5.000	--		
413	--	--	--	12,390	--	--	--	12,220	13,240	12,790	5.000	--		
389	--	--	--	11,660	--	--	--	11,510	12,460	11,100	5.000	--		
389	--	--	--	11,660	--	--	--	11,510	12,460	13,460	5.000	--		
389	--	--	--	11,660	--	--	--	11,510	12,460	13,460	5.000	--		
462	--	--	--	13,850	--	--	--	13,660	14,800	14,240	5.000	--		
437	--	367	429	13,120	--	11,990	11,020	12,940	14,020	14,990	5.000	4.875		
437	--	367	429	13,120	--	11,990	11,020	12,940	14,020	14,990	5.000	4.875		
462	--	386	450	13,850	--	12,650	11,630	13,660	14,800	14,240	5.000	4.875		
462	--	386	450	13,850	--	12,650	11,630	13,660	14,800	15,770	5.000	4.875		
462	--	386	450	13,850	--	12,650	11,630	13,660	14,800	15,770	5.000	4.875		
486	--	404	472	14,580	--	13,320	12,240	14,380	15,580	16,570	5.000	4.875		
486	--	404	472	14,580	--	13,320	12,240	14,380	15,580	16,570	5.000	4.875		
535	--	--	--	16,040	--	--	--	15,820	17,130	17,410	--	--		
535	--	--	--	16,040	--	--	--	15,820	17,130	18,160	--	--		
535	--	--	--	16,040	--	--	--	15,820	17,130	18,160	--	--		
535	--	--	--	16,040	--	--	--	15,820	17,130	18,160	--	--		
535	--	459	536	16,040	--	14,650	13,460	15,820	17,130	17,080	5.000	4.875		
535	--	459	536	16,040	--	14,650	13,460	15,820	17,130	18,920	5.000	4.875		
535	--	459	536	16,040	--	14,650	13,460	15,820	17,130	18,920	5.000	4.875		
608	--	478	536	18,220	--	14,650	13,460	17,980	19,470	19,830	5.000	4.875		
608	--	496	579	18,220	--	16,650	15,300	17,980	19,470	20,590	5.000	--		
608	--	496	579	18,220	--	16,650	15,300	17,980	19,470	20,590	5.000	--		
656	--	514	579	19,680	--	16,650	15,300	19,420	21,030	21,460	5.000	--		
680	--	551	643	20,410	--	18,650	17,140	20,130	21,810	23,050	5.000	--		
729	--	588	686	21,870	--	19,980	18,360	21,570	23,370	24,710	5.000	--		
393	--	--	--	11,840	--	--	--	11,680	12,610	13,000	--	--		
393	--	--	--	11,840	--	--	--	11,680	12,610	13,000	--	--		
393	--	--	--	11,840	--	--	--	11,680	12,610	13,000	--	--		
418	--	--	--	12,580	--	--	--	12,410	13,400	13,000	--	--		
393	--	--	--	11,840	--	--	--	11,680	12,610	11,280	--	--		
393	--	--	--	11,840	--	--	--	11,680	12,610	13,690	--	--		
393	--	--	--	11,840	--	--	--	11,680	12,610	13,690	--	--		
467	--	--	--	14,060	--	--	--	13,870	14,980	14,480	--	--		
443	--	--	--	13,320	--	--	--	13,140	14,190	15,230	--	--		
443	--	--	--	13,320	--	--	--	13,140	14,190	15,230	--	--		
467	--	--	--	14,060	--	--	--	13,870	14,980	14,480	--	--		
467	--	--	--	14,060	--	--	--	13,870	14,980	16,030	--	--		
467	--	--	--	14,060	--	--	--	13,870	14,980	16,030	--	--		
492	--	--	--	14,800	--	--	--	14,590	15,770	16,840	--	--		
492	--	--	--	14,800	--	--	--	14,590	15,770	16,840	--	--		
541	--	--	--	16,280	--	--	--	16,050	17,350	17,690	--	--		
541	--	--	--	16,280	--	--	--	16,050	17,350	18,460	--	--		
541	--	--	--	16,280	--	--	--	16,050	17,350	18,460	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS RYS110	17,010
4 1/2	17.00	16.74	0.380	3.740	3.615	--	P110 SR16	17,010
4 1/2	17.00	16.74	0.380	3.740	3.615	--	P110	17,010
4 1/2	17.00	16.74	0.380	3.740	3.615	--	P110 HC	18,010
4 1/2	17.00	16.74	0.380	3.740	3.615	--	P110 HP	19,360
4 1/2	17.00	16.74	0.380	3.740	3.615	--	Q125	19,330
4 1/2	17.00	16.74	0.380	3.740	3.615	--	Q125 HC	19,250
4 1/2	17.00	16.74	0.380	3.740	3.615	--	Q125 HP	20,650
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS 140	21,650
4 1/2	17.00	16.74	0.380	3.740	3.615	--	USS V150	22,890
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS GT80S	13,020
4 1/2	17.70	17.61	0.402	3.696	3.571	--	L80	13,020
4 1/2	17.70	17.61	0.402	3.696	3.571	--	L80 HC	14,280
4 1/2	17.70	17.61	0.402	3.696	3.571	--	L80 HP	14,940
4 1/2	17.70	17.61	0.402	3.696	3.571	--	N80 Type 1	13,020
4 1/2	17.70	17.61	0.402	3.696	3.571	--	N80	13,020
4 1/2	17.70	17.61	0.402	3.696	3.571	--	N80 HC	15,050
4 1/2	17.70	17.61	0.402	3.696	3.571	--	N80 HP	16,350
4 1/2	17.70	17.61	0.402	3.696	3.571	--	C90	14,650
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS C90	14,650
4 1/2	17.70	17.61	0.402	3.696	3.571	--	R95	15,460
4 1/2	17.70	17.61	0.402	3.696	3.571	--	T95	15,460
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS C95	15,460
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS C100	16,280
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS RYS100	16,280
4 1/2	17.70	17.61	0.402	3.696	3.571	--	C110	17,900
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS C110	17,900
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS RYS110	17,900
4 1/2	17.70	17.61	0.402	3.696	3.571	--	P110 SR16	17,900
4 1/2	17.70	17.61	0.402	3.696	3.571	--	P110	17,900
4 1/2	17.70	17.61	0.402	3.696	3.571	--	P110 HC	19,430
4 1/2	17.70	17.61	0.402	3.696	3.571	--	P110 HP	20,890
4 1/2	17.70	17.61	0.402	3.696	3.571	--	Q125	20,340
4 1/2	17.70	17.61	0.402	3.696	3.571	--	Q125 HC	20,820
4 1/2	17.70	17.61	0.402	3.696	3.571	--	Q125 HP	22,320
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS 140	22,790
4 1/2	17.70	17.61	0.402	3.696	3.571	--	USS V150	24,410
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS GT80S	13,820
4 1/2	18.80	18.71	0.430	3.640	3.515	--	L80	13,820
4 1/2	18.80	18.71	0.430	3.640	3.515	--	L80 HC	15,490
4 1/2	18.80	18.71	0.430	3.640	3.515	--	L80 HP	16,190
4 1/2	18.80	18.71	0.430	3.640	3.515	--	N80 Type 1	13,820
4 1/2	18.80	18.71	0.430	3.640	3.515	--	N80	13,820
4 1/2	18.80	18.71	0.430	3.640	3.515	--	N80 HC	16,330
4 1/2	18.80	18.71	0.430	3.640	3.515	--	N80 HP	17,750

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
541	--	--	--	16,280	--	--	--	16,050	17,350	18,460	--	--
541	--	--	--	16,280	--	--	--	16,050	17,350	17,370	--	--
541	--	--	--	16,280	--	--	--	16,050	17,350	19,230	--	--
541	--	--	--	16,280	--	--	--	16,050	17,350	19,230	--	--
615	--	--	--	18,500	--	--	--	18,240	19,710	20,150	--	--
615	--	--	--	18,500	--	--	--	18,240	19,710	20,930	--	--
615	--	--	--	18,500	--	--	--	18,240	19,710	20,930	--	--
664	--	--	--	19,980	--	--	--	19,700	21,290	21,810	--	--
689	--	--	--	20,720	--	--	--	20,430	22,080	23,430	--	--
738	--	--	--	22,200	--	--	--	21,890	23,650	25,110	--	--
414	--	--	--	12,520	--	--	--	12,320	13,280	13,800	--	--
414	--	--	--	12,520	--	--	--	12,320	13,280	13,800	--	--
414	--	--	--	12,520	--	--	--	12,320	13,280	13,800	--	--
440	--	--	--	13,300	--	--	--	13,090	14,110	13,800	--	--
414	--	--	--	12,520	--	--	--	12,320	13,280	11,960	--	--
414	--	--	--	12,520	--	--	--	12,320	13,280	14,520	--	--
414	--	--	--	12,520	--	--	--	12,320	13,280	14,520	--	--
492	--	--	--	14,860	--	--	--	14,630	15,770	15,360	--	--
466	--	--	--	14,080	--	--	--	13,860	14,940	16,170	--	--
466	--	--	--	14,080	--	--	--	13,860	14,940	16,170	--	--
492	--	--	--	14,860	--	--	--	14,630	15,770	15,360	--	--
492	--	--	--	14,860	--	--	--	14,630	15,770	17,020	--	--
492	--	--	--	14,860	--	--	--	14,630	15,770	17,020	--	--
518	--	--	--	15,640	--	--	--	15,400	16,600	17,880	--	--
518	--	--	--	15,640	--	--	--	15,400	16,600	17,880	--	--
569	--	--	--	17,210	--	--	--	16,940	18,270	18,780	--	--
569	--	--	--	17,210	--	--	--	16,940	18,270	19,600	--	--
569	--	--	--	17,210	--	--	--	16,940	18,270	19,600	--	--
569	--	--	--	17,210	--	--	--	16,940	18,270	18,430	--	--
569	--	--	--	17,210	--	--	--	16,940	18,270	20,420	--	--
569	--	--	--	17,210	--	--	--	16,940	18,270	20,420	--	--
647	--	--	--	19,560	--	--	--	19,250	20,760	21,390	--	--
647	--	--	--	19,560	--	--	--	19,250	20,760	22,220	--	--
647	--	--	--	19,560	--	--	--	19,250	20,760	22,220	--	--
699	--	--	--	21,120	--	--	--	20,790	22,420	23,150	--	--
725	--	--	--	21,900	--	--	--	21,560	23,250	24,870	--	--
776	--	--	--	23,470	--	--	--	23,100	24,910	26,660	--	--
440	--	--	--	13,370	--	--	--	13,130	14,130	14,810	--	--
440	--	--	--	13,370	--	--	--	13,130	14,130	14,810	--	--
440	--	--	--	13,370	--	--	--	13,130	14,130	14,810	--	--
467	--	--	--	14,200	--	--	--	13,950	15,010	14,810	--	--
440	--	--	--	13,370	--	--	--	13,130	14,130	12,820	--	--
440	--	--	--	13,370	--	--	--	13,130	14,130	15,590	--	--
440	--	--	--	13,370	--	--	--	13,130	14,130	15,590	--	--
522	--	--	--	15,880	--	--	--	15,600	16,770	16,490	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	18.80	18.71	0.430	3.640	3.515	--	C90	15,550
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS C90	15,550
4 1/2	18.80	18.71	0.430	3.640	3.515	--	R95	16,410
4 1/2	18.80	18.71	0.430	3.640	3.515	--	T95	16,410
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS C95	16,410
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS C100	17,280
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS RYS100	17,280
4 1/2	18.80	18.71	0.430	3.640	3.515	--	C110	19,010
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS C110	19,010
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS RYS110	19,010
4 1/2	18.80	18.71	0.430	3.640	3.515	--	P110 SR16	19,010
4 1/2	18.80	18.71	0.430	3.640	3.515	--	P110	19,010
4 1/2	18.80	18.71	0.430	3.640	3.515	--	P110 HC	21,220
4 1/2	18.80	18.71	0.430	3.640	3.515	--	P110 HP	22,800
4 1/2	18.80	18.71	0.430	3.640	3.515	--	Q125	21,600
4 1/2	18.80	18.71	0.430	3.640	3.515	--	Q125 HC	22,780
4 1/2	18.80	18.71	0.430	3.640	3.515	--	Q125 HP	24,410
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS 140	24,190
4 1/2	18.80	18.71	0.430	3.640	3.515	--	USS V150	25,920
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS GT80S	14,030
4 1/2	19.10	18.98	0.437	3.626	3.501	--	L80	14,030
4 1/2	19.10	18.98	0.437	3.626	3.501	--	L80 HC	15,790
4 1/2	19.10	18.98	0.437	3.626	3.501	--	L80 HP	16,500
4 1/2	19.10	18.98	0.437	3.626	3.501	--	N80 Type 1	14,030
4 1/2	19.10	18.98	0.437	3.626	3.501	--	N80	14,030
4 1/2	19.10	18.98	0.437	3.626	3.501	--	N80 HC	16,650
4 1/2	19.10	18.98	0.437	3.626	3.501	--	N80 HP	18,100
4 1/2	19.10	18.98	0.437	3.626	3.501	--	C90	15,780
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS C90	15,780
4 1/2	19.10	18.98	0.437	3.626	3.501	--	R95	16,660
4 1/2	19.10	18.98	0.437	3.626	3.501	--	T95	16,660
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS C95	16,660
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS C100	17,530
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS RYS100	17,530
4 1/2	19.10	18.98	0.437	3.626	3.501	--	C110	19,290
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS C110	19,290
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS RYS110	19,290
4 1/2	19.10	18.98	0.437	3.626	3.501	--	P110 SR16	19,290
4 1/2	19.10	18.98	0.437	3.626	3.501	--	P110	19,290
4 1/2	19.10	18.98	0.437	3.626	3.501	--	P110 HC	21,660
4 1/2	19.10	18.98	0.437	3.626	3.501	--	P110 HP	23,270
4 1/2	19.10	18.98	0.437	3.626	3.501	--	Q125	21,920
4 1/2	19.10	18.98	0.437	3.626	3.501	--	Q125 HC	23,260
4 1/2	19.10	18.98	0.437	3.626	3.501	--	Q125 HP	24,920
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS 140	24,550

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
495	--	--	--	15,040	--	--	--	14,770	15,890	17,370	--	--
495	--	--	--	15,040	--	--	--	14,770	15,890	17,370	--	--
522	--	--	--	15,880	--	--	--	15,600	16,770	16,490	--	--
522	--	--	--	15,880	--	--	--	15,600	16,770	18,280	--	--
522	--	--	--	15,880	--	--	--	15,600	16,770	18,280	--	--
550	--	--	--	16,710	--	--	--	16,420	17,660	19,200	--	--
550	--	--	--	16,710	--	--	--	16,420	17,660	19,200	--	--
605	--	--	--	18,380	--	--	--	18,060	19,420	20,170	--	--
605	--	--	--	18,380	--	--	--	18,060	19,420	21,050	--	--
605	--	--	--	18,380	--	--	--	18,060	19,420	21,050	--	--
605	--	--	--	18,380	--	--	--	18,060	19,420	19,780	--	--
605	--	--	--	18,380	--	--	--	18,060	19,420	21,930	--	--
605	--	--	--	18,380	--	--	--	18,060	19,420	21,930	--	--
687	--	--	--	20,890	--	--	--	20,520	22,070	22,970	--	--
687	--	--	--	20,890	--	--	--	20,520	22,070	23,860	--	--
687	--	--	--	20,890	--	--	--	20,520	22,070	23,860	--	--
742	--	--	--	22,560	--	--	--	22,160	23,840	24,870	--	--
770	--	--	--	23,400	--	--	--	22,980	24,720	26,710	--	--
825	--	--	--	25,070	--	--	--	24,620	26,490	28,630	--	--
446	--	--	--	13,580	--	--	--	13,330	14,330	15,060	--	--
446	--	--	--	13,580	--	--	--	13,330	14,330	15,060	--	--
446	--	--	--	13,580	--	--	--	13,330	14,330	15,060	--	--
474	--	--	--	14,430	--	--	--	14,170	15,230	15,060	--	--
446	--	--	--	13,580	--	--	--	13,330	14,330	13,040	--	--
446	--	--	--	13,580	--	--	--	13,330	14,330	15,850	--	--
446	--	--	--	13,580	--	--	--	13,330	14,330	15,850	--	--
530	--	--	--	16,130	--	--	--	15,840	17,020	16,770	--	--
502	--	--	--	15,280	--	--	--	15,000	16,130	17,670	--	--
502	--	--	--	15,280	--	--	--	15,000	16,130	17,670	--	--
530	--	--	--	16,130	--	--	--	15,840	17,020	16,770	--	--
530	--	--	--	16,130	--	--	--	15,840	17,020	18,600	--	--
530	--	--	--	16,130	--	--	--	15,840	17,020	18,600	--	--
558	--	--	--	16,980	--	--	--	16,670	17,920	19,530	--	--
558	--	--	--	16,980	--	--	--	16,670	17,920	19,530	--	--
614	--	--	--	18,680	--	--	--	18,340	19,710	20,520	--	--
614	--	--	--	18,680	--	--	--	18,340	19,710	21,410	--	--
614	--	--	--	18,680	--	--	--	18,340	19,710	21,410	--	--
614	--	--	--	18,680	--	--	--	18,340	19,710	20,120	--	--
614	--	--	--	18,680	--	--	--	18,340	19,710	22,310	--	--
614	--	--	--	18,680	--	--	--	18,340	19,710	22,310	--	--
697	--	--	--	21,220	--	--	--	20,840	22,400	23,370	--	--
697	--	--	--	21,220	--	--	--	20,840	22,400	24,270	--	--
697	--	--	--	21,220	--	--	--	20,840	22,400	24,270	--	--
753	--	--	--	22,920	--	--	--	22,500	24,190	25,300	--	--
781	--	--	--	23,770	--	--	--	23,340	25,080	27,170	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
4 1/2	19.10	18.98	0.437	3.626	3.501	--	USS V150	26,300
5	11.50	11.24	0.220	4.560	4.435	--	J55	3,060
5	11.50	11.24	0.220	4.560	4.435	--	K55	3,060
5	11.50	11.24	0.220	4.560	4.435	--	USS GT80S	3,560
5	11.50	11.24	0.220	4.560	4.435	--	L80	3,560
5	11.50	11.24	0.220	4.560	4.435	--	L80 HC	4,550
5	11.50	11.24	0.220	4.560	4.435	--	L80 HP	4,950
5	11.50	11.24	0.220	4.560	4.435	--	N80 Type 1	3,560
5	11.50	11.24	0.220	4.560	4.435	--	N80	3,560
5	11.50	11.24	0.220	4.560	4.435	--	N80 HC	4,650
5	11.50	11.24	0.220	4.560	4.435	--	N80 HP	5,060
5	11.50	11.24	0.220	4.560	4.435	--	C90	3,790
5	11.50	11.24	0.220	4.560	4.435	--	USS C90	3,790
5	11.50	11.24	0.220	4.560	4.435	--	R95	3,890
5	11.50	11.24	0.220	4.560	4.435	--	T95	3,890
5	11.50	11.24	0.220	4.560	4.435	--	USS C95	3,890
5	11.50	11.24	0.220	4.560	4.435	--	USS C100	3,990
5	11.50	11.24	0.220	4.560	4.435	--	USS RYS100	3,990
5	11.50	11.24	0.220	4.560	4.435	--	C110	4,150
5	11.50	11.24	0.220	4.560	4.435	--	USS C110	4,150
5	11.50	11.24	0.220	4.560	4.435	--	USS RYH110	4,150
5	11.50	11.24	0.220	4.560	4.435	--	USS RYS110	4,150
5	11.50	11.24	0.220	4.560	4.435	--	P110 SR16	4,150
5	11.50	11.24	0.220	4.560	4.435	--	P110	4,150
5	11.50	11.24	0.220	4.560	4.435	--	P110 HC	5,080
5	11.50	11.24	0.220	4.560	4.435	--	P110 HP	5,510
5	11.50	11.24	0.220	4.560	4.435	--	Q125	4,310
5	11.50	11.24	0.220	4.560	4.435	--	Q125 HC	5,180
5	11.50	11.24	0.220	4.560	4.435	--	Q125 HP	5,620
5	11.50	11.24	0.220	4.560	4.435	--	USS 140	4,370
5	11.50	11.24	0.220	4.560	4.435	--	USS V150	4,370
5	13.00	12.84	0.253	4.494	4.369	--	J55	4,140
5	13.00	12.84	0.253	4.494	4.369	--	K55	4,140
5	13.00	12.84	0.253	4.494	4.369	--	USS GT80S	5,140
5	13.00	12.84	0.253	4.494	4.369	--	L80	5,140
5	13.00	12.84	0.253	4.494	4.369	--	L80 HC	6,110
5	13.00	12.84	0.253	4.494	4.369	--	L80 HP	6,570
5	13.00	12.84	0.253	4.494	4.369	--	N80 Type 1	5,140
5	13.00	12.84	0.253	4.494	4.369	--	N80	5,140
5	13.00	12.84	0.253	4.494	4.369	--	N80 HC	6,300
5	13.00	12.84	0.253	4.494	4.369	--	N80 HP	6,860
5	13.00	12.84	0.253	4.494	4.369	--	C90	5,430
5	13.00	12.84	0.253	4.494	4.369	--	USS C90	5,430
5	13.00	12.84	0.253	4.494	4.369	--	R95	5,560
5	13.00	12.84	0.253	4.494	4.369	--	T95	5,560

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
837	--	--	--	25,470	--	--	--	25,000	26,880	29,130	--	--
182	133	--	--	4,250	4,250	--	--	4,230	4,690	4,250	5.563	--
182	147	--	--	4,250	4,250	--	--	4,230	4,690	5,380	5.563	--
264	--	--	--	6,180	--	--	--	6,150	6,820	6,570	--	--
264	--	--	--	6,180	--	--	--	6,150	6,820	6,570	--	--
264	--	--	--	6,180	--	--	--	6,150	6,820	6,570	--	--
281	--	--	--	6,560	--	--	--	6,540	7,250	6,570	--	--
264	--	--	--	6,180	--	--	--	6,150	6,820	5,740	--	--
264	--	--	--	6,180	--	--	--	6,150	6,820	6,920	--	--
264	--	--	--	6,180	--	--	--	6,150	6,820	6,920	--	--
314	--	--	--	7,330	--	--	--	7,310	8,100	7,320	--	--
297	--	--	--	6,950	--	--	--	6,920	7,680	7,670	--	--
297	--	--	--	6,950	--	--	--	6,920	7,680	7,670	--	--
314	--	--	--	7,330	--	--	--	7,310	8,100	7,320	--	--
314	--	--	--	7,330	--	--	--	7,310	8,100	8,070	--	--
314	--	--	--	7,330	--	--	--	7,310	8,100	8,070	--	--
330	--	--	--	7,720	--	--	--	7,690	8,530	8,480	--	--
330	--	--	--	7,720	--	--	--	7,690	8,530	8,480	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	8,910	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	9,300	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	9,300	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	9,300	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	8,780	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	9,690	--	--
363	--	--	--	8,490	--	--	--	8,460	9,380	9,690	--	--
413	--	--	--	9,650	--	--	--	9,610	10,660	10,150	--	--
413	--	--	--	9,650	--	--	--	9,610	10,660	10,540	--	--
413	--	--	--	9,650	--	--	--	9,610	10,660	10,540	--	--
446	--	--	--	10,420	--	--	--	10,380	11,510	10,980	--	--
463	--	--	--	10,810	--	--	--	10,770	11,940	11,800	--	--
496	--	--	--	11,580	--	--	--	11,540	12,790	12,650	--	--
208	169	182	252	4,860	4,860	4,860	4,860	4,840	5,360	4,880	5.563	5.375
208	186	201	309	4,860	4,860	4,860	4,860	4,840	5,360	6,180	5.563	5.375
302	--	--	--	7,070	--	--	--	7,040	7,800	7,560	--	--
302	--	--	--	7,070	--	--	--	7,040	7,800	7,560	--	--
302	--	--	--	7,070	--	--	--	7,040	7,800	7,560	--	--
321	--	--	--	7,510	--	--	--	7,480	8,290	7,560	--	--
302	--	--	--	7,070	--	--	--	7,040	7,800	6,580	--	--
302	--	--	--	7,070	--	--	--	7,040	7,800	7,950	--	--
302	--	--	--	7,070	--	--	--	7,040	7,800	7,950	--	--
358	--	--	--	8,400	--	--	--	8,360	9,260	8,410	--	--
340	--	--	--	7,960	--	--	--	7,920	8,770	8,830	--	--
340	--	--	--	7,960	--	--	--	7,920	8,770	8,830	--	--
358	--	--	--	8,400	--	--	--	8,360	9,260	8,410	--	--
358	--	--	--	8,400	--	--	--	8,360	9,260	9,290	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5	13.00	12.84	0.253	4.494	4.369	--	USS C95	5,560
5	13.00	12.84	0.253	4.494	4.369	--	USS C100	5,670
5	13.00	12.84	0.253	4.494	4.369	--	USS RYS100	5,670
5	13.00	12.84	0.253	4.494	4.369	--	C110	5,850
5	13.00	12.84	0.253	4.494	4.369	--	USS C110	5,850
5	13.00	12.84	0.253	4.494	4.369	--	USS RYH110	5,850
5	13.00	12.84	0.253	4.494	4.369	--	USS RYS110	5,850
5	13.00	12.84	0.253	4.494	4.369	--	P110 SR16	5,850
5	13.00	12.84	0.253	4.494	4.369	--	P110	5,850
5	13.00	12.84	0.253	4.494	4.369	--	P110 HC	7,170
5	13.00	12.84	0.253	4.494	4.369	--	P110 HP	7,760
5	13.00	12.84	0.253	4.494	4.369	--	Q125	6,050
5	13.00	12.84	0.253	4.494	4.369	--	Q125 HC	7,370
5	13.00	12.84	0.253	4.494	4.369	--	Q125 HP	7,980
5	13.00	12.84	0.253	4.494	4.369	--	USS 140	6,360
5	13.00	12.84	0.253	4.494	4.369	--	USS V150	6,520
5	15.00	14.88	0.296	4.408	4.283	--	J55	5,560
5	15.00	14.88	0.296	4.408	4.283	--	K55	5,560
5	15.00	14.88	0.296	4.408	4.283	--	USS GT80S	7,250
5	15.00	14.88	0.296	4.408	4.283	--	L80	7,250
5	15.00	14.88	0.296	4.408	4.283	--	L80 HC	8,090
5	15.00	14.88	0.296	4.408	4.283	--	L80 HP	8,590
5	15.00	14.88	0.296	4.408	4.283	--	N80 Type 1	7,250
5	15.00	14.88	0.296	4.408	4.283	--	N80	7,250
5	15.00	14.88	0.296	4.408	4.283	--	N80 HC	8,420
5	15.00	14.88	0.296	4.408	4.283	--	N80 HP	9,150
5	15.00	14.88	0.296	4.408	4.283	--	C90	7,840
5	15.00	14.88	0.296	4.408	4.283	--	USS C90	7,840
5	15.00	14.88	0.296	4.408	4.283	--	R95	8,110
5	15.00	14.88	0.296	4.408	4.283	--	T95	8,110
5	15.00	14.88	0.296	4.408	4.283	--	USS C95	8,110
5	15.00	14.88	0.296	4.408	4.283	--	USS C100	8,370
5	15.00	14.88	0.296	4.408	4.283	--	USS RYS100	8,370
5	15.00	14.88	0.296	4.408	4.283	--	C110	8,850
5	15.00	14.88	0.296	4.408	4.283	--	USS C110	8,850
5	15.00	14.88	0.296	4.408	4.283	--	USS RYH110	8,850
5	15.00	14.88	0.296	4.408	4.283	--	USS RYS110	8,850
5	15.00	14.88	0.296	4.408	4.283	--	P110 SR16	8,850
5	15.00	14.88	0.296	4.408	4.283	--	P110	8,850
5	15.00	14.88	0.296	4.408	4.283	--	P110 HC	10,060
5	15.00	14.88	0.296	4.408	4.283	--	P110 HP	10,860
5	15.00	14.88	0.296	4.408	4.283	--	Q125	9,480
5	15.00	14.88	0.296	4.408	4.283	--	Q125 HC	10,490
5	15.00	14.88	0.296	4.408	4.283	--	Q125 HP	11,320
5	15.00	14.88	0.296	4.408	4.283	--	USS 140	9,990

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
358	--	--	--	8,400	--	--	--	8,360	9,260	9,290	--	--			
377	--	--	--	8,840	--	--	--	8,800	9,750	9,760	--	--			
377	--	--	--	8,840	--	--	--	8,800	9,750	9,760	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	10,260	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	10,700	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	10,700	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	10,700	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	10,090	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	11,150	--	--			
415	--	--	--	9,720	--	--	--	9,680	10,720	11,150	--	--			
472	--	--	--	11,050	--	--	--	11,000	12,190	11,680	--	--			
472	--	--	--	11,050	--	--	--	11,000	12,190	12,130	--	--			
472	--	--	--	11,050	--	--	--	11,000	12,190	12,130	--	--			
509	--	--	--	11,930	--	--	--	11,880	13,160	12,640	--	--			
528	--	--	--	12,380	--	--	--	12,310	13,650	13,580	--	--			
566	--	--	--	13,260	--	--	--	13,190	14,620	14,560	--	--			
241	207	223	293	5,700	5,700	5,700	5,700	5,660	6,220	5,750	5.563	5.375			
241	228	246	359	5,700	5,700	5,700	5,700	5,660	6,220	7,280	5.563	5.375			
350	--	295	379	8,290	--	8,290	8,290	8,230	9,050	8,920	5.563	5.375			
350	--	295	379	8,290	--	8,290	8,290	8,230	9,050	8,920	5.563	5.375			
350	--	295	379	8,290	--	8,290	8,290	8,230	9,050	8,920	5.563	5.375			
372	--	295	383	8,810	--	8,810	8,810	8,750	9,620	8,920	5.563	5.375			
350	--	311	396	8,290	--	8,290	8,290	8,230	9,050	7,760	5.563	5.375			
350	--	311	396	8,290	--	8,290	8,290	8,230	9,050	9,390	5.563	5.375			
350	--	311	396	8,290	--	8,290	8,290	8,230	9,050	9,390	5.563	5.375			
416	--	326	424	9,840	--	9,840	9,840	9,780	10,750	9,930	5.563	5.375			
394	--	311	404	9,320	--	9,320	9,320	9,260	10,190	10,430	5.563	5.375			
394	--	311	404	9,320	--	9,320	9,320	9,260	10,190	10,430	5.563	5.375			
416	--	326	424	9,840	--	9,840	9,840	9,780	10,750	9,930	5.563	5.375			
416	--	326	424	9,840	--	9,840	9,840	9,780	10,750	10,980	5.563	5.375			
416	--	326	424	9,840	--	9,840	9,840	9,780	10,750	10,980	5.563	5.375			
437	--	342	445	10,360	--	10,360	10,360	10,290	11,320	11,530	5.563	5.375			
437	--	342	445	10,360	--	10,360	10,360	10,290	11,320	11,530	5.563	5.375			
481	--	--	--	11,400	--	--	--	11,320	12,450	12,110	--	--			
481	--	--	--	11,400	--	--	--	11,320	12,450	12,640	--	--			
481	--	--	--	11,400	--	--	--	11,320	12,450	12,640	--	--			
481	--	--	--	11,400	--	--	--	11,320	12,450	12,640	--	--			
481	--	388	503	11,400	--	11,400	11,400	11,320	12,450	11,910	5.563	5.375			
481	--	388	503	11,400	--	11,400	11,400	11,320	12,450	13,170	5.563	5.375			
481	--	388	503	11,400	--	11,400	11,400	11,320	12,450	13,170	5.563	5.375			
547	--	404	532	12,950	--	12,950	12,950	12,860	14,150	13,790	5.563	5.375			
547	--	420	548	12,950	--	12,950	12,950	12,860	14,150	14,330	5.563	--			
547	--	420	548	12,950	--	12,950	12,950	12,860	14,150	14,330	5.563	--			
590	--	435	573	13,990	--	13,990	13,990	13,890	15,280	14,930	5.563	--			
612	--	466	610	14,500	--	14,500	14,500	14,410	15,840	16,040	5.563	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5	15.00	14.88	0.296	4.408	4.283	--	USS V150	10,250
5	18.00	17.95	0.362	4.276	4.151	--	J55	7,390
5	18.00	17.95	0.362	4.276	4.151	--	K55	7,390
5	18.00	17.95	0.362	4.276	4.151	--	USS GT80S	10,500
5	18.00	17.95	0.362	4.276	4.151	--	L80	10,500
5	18.00	17.95	0.362	4.276	4.151	--	L80 HC	10,900
5	18.00	17.95	0.362	4.276	4.151	--	L80 HP	11,470
5	18.00	17.95	0.362	4.276	4.151	--	N80 Type 1	10,500
5	18.00	17.95	0.362	4.276	4.151	--	N80	10,500
5	18.00	17.95	0.362	4.276	4.151	--	N80 HC	11,440
5	18.00	17.95	0.362	4.276	4.151	--	N80 HP	12,430
5	18.00	17.95	0.362	4.276	4.151	--	C90	11,530
5	18.00	17.95	0.362	4.276	4.151	--	USS C90	11,530
5	18.00	17.95	0.362	4.276	4.151	--	R95	12,030
5	18.00	17.95	0.362	4.276	4.151	--	T95	12,030
5	18.00	17.95	0.362	4.276	4.151	--	USS C95	12,030
5	18.00	17.95	0.362	4.276	4.151	--	USS C100	12,520
5	18.00	17.95	0.362	4.276	4.151	--	USS RYS100	12,520
5	18.00	17.95	0.362	4.276	4.151	--	C110	13,470
5	18.00	17.95	0.362	4.276	4.151	--	USS C110	13,470
5	18.00	17.95	0.362	4.276	4.151	--	USS RYH110	13,470
5	18.00	17.95	0.362	4.276	4.151	--	USS RYS110	13,470
5	18.00	17.95	0.362	4.276	4.151	--	P110 SR16	13,470
5	18.00	17.95	0.362	4.276	4.151	--	P110	13,470
5	18.00	17.95	0.362	4.276	4.151	--	P110 HC	14,360
5	18.00	17.95	0.362	4.276	4.151	--	P110 HP	15,460
5	18.00	17.95	0.362	4.276	4.151	--	Q125	14,830
5	18.00	17.95	0.362	4.276	4.151	--	Q125 HC	15,220
5	18.00	17.95	0.362	4.276	4.151	--	Q125 HP	16,360
5	18.00	17.95	0.362	4.276	4.151	--	USS 140	16,080
5	18.00	17.95	0.362	4.276	4.151	--	USS V150	16,860
5	20.30	20.03	0.408	4.184	4.059	--	USS GT80S	12,000
5	20.30	20.03	0.408	4.184	4.059	--	L80	12,000
5	20.30	20.03	0.408	4.184	4.059	--	L80 HC	12,760
5	20.30	20.03	0.408	4.184	4.059	--	L80 HP	13,380
5	20.30	20.03	0.408	4.184	4.059	--	N80 Type 1	12,000
5	20.30	20.03	0.408	4.184	4.059	--	N80	12,000
5	20.30	20.03	0.408	4.184	4.059	--	N80 HC	13,420
5	20.30	20.03	0.408	4.184	4.059	--	N80 HP	14,590
5	20.30	20.03	0.408	4.184	4.059	--	C90	13,490
5	20.30	20.03	0.408	4.184	4.059	--	USS C90	13,490
5	20.30	20.03	0.408	4.184	4.059	--	R95	14,240
5	20.30	20.03	0.408	4.184	4.059	--	T95	14,240
5	20.30	20.03	0.408	4.184	4.059	--	USS C95	14,240
5	20.30	20.03	0.408	4.184	4.059	--	USS C100	14,990

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
656	--	497	651	15,540	--	15,540	15,540	15,430	16,980	17,190	5.563	--		
290	--	--	--	6,970	--	--	--	6,900	7,520	7,100	--	--		
290	--	--	--	6,970	--	--	--	6,900	7,520	9,000	--	--		
422	--	376	457	10,140	--	10,140	9,910	10,040	10,940	11,030	5.563	5.375		
422	--	376	457	10,140	--	10,140	9,910	10,040	10,940	11,030	5.563	5.375		
422	--	376	457	10,140	--	10,140	9,910	10,040	10,940	11,030	5.563	5.375		
448	--	376	462	10,780	--	10,780	9,910	10,670	11,620	11,030	5.563	5.375		
422	--	396	477	10,140	--	10,140	9,910	10,040	10,940	9,590	5.563	5.375		
422	--	396	477	10,140	--	10,140	9,910	10,040	10,940	11,610	5.563	5.375		
422	--	396	477	10,140	--	10,140	9,910	10,040	10,940	11,610	5.563	5.375		
501	--	416	512	12,050	--	10,810	9,910	11,920	12,990	12,290	5.563	5.375		
475	--	396	487	11,410	--	11,410	11,150	11,300	12,310	12,910	5.563	5.375		
475	--	396	487	11,410	--	11,410	11,150	11,300	12,310	12,910	5.563	5.375		
501	--	416	512	12,050	--	12,050	11,770	11,920	12,990	12,290	5.563	5.375		
501	--	416	512	12,050	--	12,050	11,770	11,920	12,990	13,590	5.563	5.375		
501	--	416	512	12,050	--	12,050	11,770	11,920	12,990	13,590	5.563	5.375		
528	--	436	537	12,680	--	12,680	12,390	12,550	13,670	14,270	5.563	5.375		
528	--	436	537	12,680	--	12,680	12,390	12,550	13,670	14,270	5.563	5.375		
580	--	--	--	13,950	--	--	--	13,810	15,040	15,000	--	--		
580	--	--	--	13,950	--	--	--	13,810	15,040	15,650	--	--		
580	--	--	--	13,950	--	--	--	13,810	15,040	15,650	--	--		
580	--	--	--	13,950	--	--	--	13,810	15,040	15,650	--	--		
580	--	495	606	13,950	--	13,950	13,620	13,810	15,040	14,740	5.563	5.375		
580	--	495	606	13,950	--	13,950	13,620	13,810	15,040	16,300	5.563	5.375		
580	--	495	606	13,950	--	13,950	13,620	13,810	15,040	16,300	5.563	5.375		
659	--	515	641	15,850	--	14,870	13,620	15,690	17,090	17,080	5.563	5.375		
659	--	535	661	15,850	--	15,850	15,480	15,690	17,090	17,740	5.563	--		
659	--	535	661	15,850	--	15,850	15,480	15,690	17,090	17,740	5.563	--		
712	--	555	691	17,120	--	16,900	15,480	16,940	18,460	18,490	5.563	--		
739	--	594	735	17,750	--	17,750	17,340	17,570	19,140	19,860	5.563	--		
791	--	634	785	19,020	--	19,020	18,580	18,830	20,510	21,290	5.563	--		
471	--	--	--	11,420	--	--	--	11,280	12,220	12,510	--	--		
471	--	--	--	11,420	--	--	--	11,280	12,220	12,510	--	--		
471	--	--	--	11,420	--	--	--	11,280	12,220	12,510	--	--		
500	--	--	--	12,140	--	--	--	11,980	12,990	12,510	--	--		
471	--	--	--	11,420	--	--	--	11,280	12,220	10,860	--	--		
471	--	--	--	11,420	--	--	--	11,280	12,220	13,170	--	--		
471	--	--	--	11,420	--	--	--	11,280	12,220	13,170	--	--		
559	--	--	--	13,570	--	--	--	13,390	14,510	13,930	--	--		
530	--	--	--	12,850	--	--	--	12,690	13,750	14,660	--	--		
530	--	--	--	12,850	--	--	--	12,690	13,750	14,660	--	--		
559	--	--	--	13,570	--	--	--	13,390	14,510	13,930	--	--		
559	--	--	--	13,570	--	--	--	13,390	14,510	15,430	--	--		
559	--	--	--	13,570	--	--	--	13,390	14,510	15,430	--	--		
589	--	--	--	14,280	--	--	--	14,100	15,280	16,200	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5	20.30	20.03	0.408	4.184	4.059	--	USS RYS100	14,990
5	20.30	20.03	0.408	4.184	4.059	--	C110	16,490
5	20.30	20.03	0.408	4.184	4.059	--	USS C110	16,490
5	20.30	20.03	0.408	4.184	4.059	--	USS RYH110	16,490
5	20.30	20.03	0.408	4.184	4.059	--	USS RYS110	16,490
5	20.30	20.03	0.408	4.184	4.059	--	P110 SR16	16,490
5	20.30	20.03	0.408	4.184	4.059	--	P110	16,490
5	20.30	20.03	0.408	4.184	4.059	--	P110 HC	17,170
5	20.30	20.03	0.408	4.184	4.059	--	P110 HP	18,460
5	20.30	20.03	0.408	4.184	4.059	--	Q125	18,560
5	20.30	20.03	0.408	4.184	4.059	--	Q125 HC	18,320
5	20.30	20.03	0.408	4.184	4.059	--	Q125 HP	19,660
5	20.30	20.03	0.408	4.184	4.059	--	USS 140	20,340
5	20.30	20.03	0.408	4.184	4.059	--	USS V150	21,480
5	20.80	20.65	0.422	4.156	4.031	--	USS GT80S	12,360
5	20.80	20.65	0.422	4.156	4.031	--	L80	12,360
5	20.80	20.65	0.422	4.156	4.031	--	L80 HC	13,310
5	20.80	20.65	0.422	4.156	4.031	--	L80 HP	13,950
5	20.80	20.65	0.422	4.156	4.031	--	N80 Type 1	12,360
5	20.80	20.65	0.422	4.156	4.031	--	N80	12,360
5	20.80	20.65	0.422	4.156	4.031	--	N80 HC	14,010
5	20.80	20.65	0.422	4.156	4.031	--	N80 HP	15,230
5	20.80	20.65	0.422	4.156	4.031	--	C90	13,910
5	20.80	20.65	0.422	4.156	4.031	--	USS C90	13,910
5	20.80	20.65	0.422	4.156	4.031	--	R95	14,680
5	20.80	20.65	0.422	4.156	4.031	--	T95	14,680
5	20.80	20.65	0.422	4.156	4.031	--	USS C95	14,680
5	20.80	20.65	0.422	4.156	4.031	--	USS C100	15,450
5	20.80	20.65	0.422	4.156	4.031	--	USS RYS100	15,450
5	20.80	20.65	0.422	4.156	4.031	--	C110	17,000
5	20.80	20.65	0.422	4.156	4.031	--	USS C110	17,000
5	20.80	20.65	0.422	4.156	4.031	--	USS RYH110	17,000
5	20.80	20.65	0.422	4.156	4.031	--	USS RYS110	17,000
5	20.80	20.65	0.422	4.156	4.031	--	P110 SR16	17,000
5	20.80	20.65	0.422	4.156	4.031	--	P110	17,000
5	20.80	20.65	0.422	4.156	4.031	--	P110 HC	18,000
5	20.80	20.65	0.422	4.156	4.031	--	P110 HP	19,350
5	20.80	20.65	0.422	4.156	4.031	--	Q125	19,320
5	20.80	20.65	0.422	4.156	4.031	--	Q125 HC	19,230
5	20.80	20.65	0.422	4.156	4.031	--	Q125 HP	20,630
5	20.80	20.65	0.422	4.156	4.031	--	USS 140	21,610
5	20.80	20.65	0.422	4.156	4.031	--	USS V150	22,860
5	21.40	21.32	0.437	4.126	4.001	--	USS GT80S	12,760
5	21.40	21.32	0.437	4.126	4.001	--	L80	12,760
5	21.40	21.32	0.437	4.126	4.001	--	L80 HC	13,900

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
589	--	--	--	14,280	--	--	--	14,100	15,280	16,200	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	17,030	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	17,770	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	17,770	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	17,770	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	16,710	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	18,510	--	--		
647	--	--	--	15,710	--	--	--	15,510	16,810	18,510	--	--		
736	--	--	--	17,850	--	--	--	17,620	19,100	19,390	--	--		
736	--	--	--	17,850	--	--	--	17,620	19,100	20,140	--	--		
736	--	--	--	17,850	--	--	--	17,620	19,100	20,140	--	--		
795	--	--	--	19,280	--	--	--	19,030	20,630	20,990	--	--		
824	--	--	--	19,990	--	--	--	19,730	21,390	22,540	--	--		
883	--	--	--	21,420	--	--	--	21,140	22,920	24,170	--	--		
486	--	--	--	11,810	--	--	--	11,650	12,610	12,960	--	--		
486	--	--	--	11,810	--	--	--	11,650	12,610	12,960	--	--		
486	--	--	--	11,810	--	--	--	11,650	12,610	12,960	--	--		
516	--	--	--	12,550	--	--	--	12,370	13,400	12,960	--	--		
486	--	--	--	11,810	--	--	--	11,650	12,610	11,240	--	--		
486	--	--	--	11,810	--	--	--	11,650	12,610	13,640	--	--		
486	--	--	--	11,810	--	--	--	11,650	12,610	13,640	--	--		
577	--	--	--	14,020	--	--	--	13,830	14,970	14,430	--	--		
546	--	--	--	13,280	--	--	--	13,100	14,180	15,190	--	--		
546	--	--	--	13,280	--	--	--	13,100	14,180	15,190	--	--		
577	--	--	--	14,020	--	--	--	13,830	14,970	14,430	--	--		
577	--	--	--	14,020	--	--	--	13,830	14,970	15,990	--	--		
577	--	--	--	14,020	--	--	--	13,830	14,970	15,990	--	--		
607	--	--	--	14,760	--	--	--	14,560	15,760	16,790	--	--		
607	--	--	--	14,760	--	--	--	14,560	15,760	16,790	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	17,640	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	18,410	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	18,410	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	18,410	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	17,310	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	19,170	--	--		
668	--	--	--	16,240	--	--	--	16,010	17,340	19,170	--	--		
759	--	--	--	18,450	--	--	--	18,200	19,700	20,090	--	--		
759	--	--	--	18,450	--	--	--	18,200	19,700	20,860	--	--		
759	--	--	--	18,450	--	--	--	18,200	19,700	20,860	--	--		
819	--	--	--	19,930	--	--	--	19,650	21,280	21,740	--	--		
850	--	--	--	20,660	--	--	--	20,380	22,070	23,360	--	--		
910	--	--	--	22,140	--	--	--	21,830	23,640	25,040	--	--		
501	--	466	510	12,220	--	10,810	9,910	12,040	13,020	13,450	5.563	5.375		
501	--	466	510	12,220	--	10,810	9,910	12,040	13,020	13,450	5.563	5.375		
501	--	466	510	12,220	--	10,810	9,910	12,040	13,020	13,450	5.563	5.375		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5	21.40	21.32	0.437	4.126	4.001	--	L80 HP	14,550
5	21.40	21.32	0.437	4.126	4.001	--	N80 Type 1	12,760
5	21.40	21.32	0.437	4.126	4.001	--	N80	12,760
5	21.40	21.32	0.437	4.126	4.001	--	N80 HC	14,640
5	21.40	21.32	0.437	4.126	4.001	--	N80 HP	15,920
5	21.40	21.32	0.437	4.126	4.001	--	C90	14,360
5	21.40	21.32	0.437	4.126	4.001	--	USS C90	14,360
5	21.40	21.32	0.437	4.126	4.001	--	R95	15,160
5	21.40	21.32	0.437	4.126	4.001	--	T95	15,160
5	21.40	21.32	0.437	4.126	4.001	--	USS C95	15,160
5	21.40	21.32	0.437	4.126	4.001	--	USS C100	15,950
5	21.40	21.32	0.437	4.126	4.001	--	USS RYS100	15,950
5	21.40	21.32	0.437	4.126	4.001	--	C110	17,550
5	21.40	21.32	0.437	4.126	4.001	--	USS C110	17,550
5	21.40	21.32	0.437	4.126	4.001	--	USS RYH110	17,550
5	21.40	21.32	0.437	4.126	4.001	--	USS RYS110	17,550
5	21.40	21.32	0.437	4.126	4.001	--	P110 SR16	17,550
5	21.40	21.32	0.437	4.126	4.001	--	P110	17,550
5	21.40	21.32	0.437	4.126	4.001	--	P110 HC	18,870
5	21.40	21.32	0.437	4.126	4.001	--	P110 HP	20,290
5	21.40	21.32	0.437	4.126	4.001	--	Q125	19,940
5	21.40	21.32	0.437	4.126	4.001	--	Q125 HC	20,200
5	21.40	21.32	0.437	4.126	4.001	--	Q125 HP	21,660
5	21.40	21.32	0.437	4.126	4.001	--	USS 140	22,340
5	21.40	21.32	0.437	4.126	4.001	--	USS V150	23,930
5	23.20	23.11	0.478	4.044	3.919	--	USS GT80S	13,830
5	23.20	23.11	0.478	4.044	3.919	--	L80	13,830
5	23.20	23.11	0.478	4.044	3.919	--	L80 HC	15,500
5	23.20	23.11	0.478	4.044	3.919	--	L80 HP	16,200
5	23.20	23.11	0.478	4.044	3.919	--	N80 Type 1	13,830
5	23.20	23.11	0.478	4.044	3.919	--	N80	13,830
5	23.20	23.11	0.478	4.044	3.919	--	N80 HC	16,340
5	23.20	23.11	0.478	4.044	3.919	--	N80 HP	17,760
5	23.20	23.11	0.478	4.044	3.919	--	C90	15,560
5	23.20	23.11	0.478	4.044	3.919	--	USS C90	15,560
5	23.20	23.11	0.478	4.044	3.919	--	R95	16,430
5	23.20	23.11	0.478	4.044	3.919	--	T95	16,430
5	23.20	23.11	0.478	4.044	3.919	--	USS C95	16,430
5	23.20	23.11	0.478	4.044	3.919	--	USS C100	17,290
5	23.20	23.11	0.478	4.044	3.919	--	USS RYS100	17,290
5	23.20	23.11	0.478	4.044	3.919	--	C110	19,020
5	23.20	23.11	0.478	4.044	3.919	--	USS C110	19,020
5	23.20	23.11	0.478	4.044	3.919	--	USS RYH110	19,020
5	23.20	23.11	0.478	4.044	3.919	--	USS RYS110	19,020
5	23.20	23.11	0.478	4.044	3.919	--	P110 SR16	19,020

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
532	--	466	510	12,990	--	10,810	9,910	12,800	13,830	13,450	5.563	5.375			
501	--	490	537	12,220	--	10,810	9,910	12,040	13,020	11,660	5.563	5.375			
501	--	490	537	12,220	--	10,810	9,910	12,040	13,020	14,160	5.563	5.375			
501	--	490	537	12,220	--	10,810	9,910	12,040	13,020	14,160	5.563	5.375			
595	--	515	537	14,520	--	10,810	9,910	14,300	15,460	14,980	5.563	5.375			
564	--	490	537	13,750	--	12,170	11,150	13,550	14,650	15,760	5.563	5.375			
564	--	490	537	13,750	--	12,170	11,150	13,550	14,650	15,760	5.563	5.375			
595	--	515	563	14,520	--	12,840	11,770	14,300	15,460	14,980	5.563	5.375			
595	--	515	563	14,520	--	12,840	11,770	14,300	15,460	16,590	5.563	5.375			
595	--	515	563	14,520	--	12,840	11,770	14,300	15,460	16,590	5.563	5.375			
626	--	539	590	15,280	--	13,520	12,390	15,050	16,270	17,430	5.563	5.375			
626	--	539	590	15,280	--	13,520	12,390	15,050	16,270	17,430	5.563	5.375			
689	--	--	--	16,810	--	--	--	16,560	17,900	18,310	--	--			
689	--	--	--	16,810	--	--	--	16,560	17,900	19,110	--	--			
689	--	--	--	16,810	--	--	--	16,560	17,900	19,110	--	--			
689	--	--	--	16,810	--	--	--	16,560	17,900	19,110	--	--			
689	--	613	671	16,810	--	14,870	13,620	16,560	17,900	17,960	5.563	5.375			
689	--	613	671	16,810	--	14,870	13,620	16,560	17,900	19,900	5.563	5.375			
689	--	613	671	16,810	--	14,870	13,620	16,560	17,900	19,900	5.563	5.375			
783	--	637	671	19,100	--	14,870	13,620	18,820	20,340	20,850	5.563	5.375			
783	--	662	724	19,100	--	16,900	15,480	18,820	20,340	21,660	5.563	--			
783	--	662	724	19,100	--	16,900	15,480	18,820	20,340	21,660	5.563	--			
846	--	686	724	20,630	--	16,900	15,480	20,320	21,970	22,570	5.563	--			
877	--	735	805	21,390	--	18,930	17,340	21,080	22,780	24,240	5.563	--			
940	--	784	858	22,920	--	20,280	18,580	22,580	24,410	25,990	5.563	--			
543	--	513	510	13,380	--	10,810	9,910	13,140	14,130	14,820	5.563	5.375			
543	--	513	510	13,380	--	10,810	9,910	13,140	14,130	14,820	5.563	5.375			
543	--	513	510	13,380	--	10,810	9,910	13,140	14,130	14,820	5.563	5.375			
577	--	513	510	14,210	--	10,810	9,910	13,960	15,010	14,820	5.563	5.375			
543	--	540	537	13,380	--	10,810	9,910	13,140	14,130	12,830	5.563	5.375			
543	--	540	537	13,380	--	10,810	9,910	13,140	14,130	15,600	5.563	5.375			
543	--	540	537	13,380	--	10,810	9,910	13,140	14,130	15,600	5.563	5.375			
645	--	567	537	15,880	--	10,810	9,910	15,600	16,780	16,500	5.563	5.375			
611	--	540	537	15,050	--	12,170	11,150	14,780	15,900	17,380	5.563	5.375			
611	--	540	537	15,050	--	12,170	11,150	14,780	15,900	17,380	5.563	5.375			
645	--	567	563	15,880	--	12,840	11,770	15,600	16,780	16,500	5.563	5.375			
645	--	567	563	15,880	--	12,840	11,770	15,600	16,780	18,290	5.563	5.375			
645	--	567	563	15,880	--	12,840	11,770	15,600	16,780	18,290	5.563	5.375			
679	--	594	590	16,720	--	13,520	12,390	16,420	17,660	19,210	5.563	5.375			
679	--	594	590	16,720	--	13,520	12,390	16,420	17,660	19,210	5.563	5.375			
747	--	--	--	18,390	--	--	--	18,070	19,430	20,180	--	--			
747	--	--	--	18,390	--	--	--	18,070	19,430	21,060	--	--			
747	--	--	--	18,390	--	--	--	18,070	19,430	21,060	--	--			
747	--	--	--	18,390	--	--	--	18,070	19,430	21,060	--	--			
747	--	675	671	18,390	--	14,870	13,620	18,070	19,430	19,790	5.563	5.375			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5	23.20	23.11	0.478	4.044	3.919	--	P110	19,020
5	23.20	23.11	0.478	4.044	3.919	--	P110 HC	21,230
5	23.20	23.11	0.478	4.044	3.919	--	P110 HP	22,810
5	23.20	23.11	0.478	4.044	3.919	--	Q125	21,620
5	23.20	23.11	0.478	4.044	3.919	--	Q125 HC	22,790
5	23.20	23.11	0.478	4.044	3.919	--	Q125 HP	24,420
5	23.20	23.11	0.478	4.044	3.919	--	USS 140	24,210
5	23.20	23.11	0.478	4.044	3.919	--	USS V150	25,940
5	24.10	24.05	0.500	4.000	3.875	--	USS GT80S	14,400
5	24.10	24.05	0.500	4.000	3.875	--	L80	14,400
5	24.10	24.05	0.500	4.000	3.875	--	L80 HC	16,350
5	24.10	24.05	0.500	4.000	3.875	--	L80 HP	17,080
5	24.10	24.05	0.500	4.000	3.875	--	N80 Type 1	14,400
5	24.10	24.05	0.500	4.000	3.875	--	N80	14,400
5	24.10	24.05	0.500	4.000	3.875	--	N80 HC	17,250
5	24.10	24.05	0.500	4.000	3.875	--	N80 HP	18,740
5	24.10	24.05	0.500	4.000	3.875	--	C90	16,200
5	24.10	24.05	0.500	4.000	3.875	--	USS C90	16,200
5	24.10	24.05	0.500	4.000	3.875	--	R95	17,100
5	24.10	24.05	0.500	4.000	3.875	--	T95	17,100
5	24.10	24.05	0.500	4.000	3.875	--	USS C95	17,100
5	24.10	24.05	0.500	4.000	3.875	--	USS C100	18,000
5	24.10	24.05	0.500	4.000	3.875	--	USS RYS100	18,000
5	24.10	24.05	0.500	4.000	3.875	--	C110	19,800
5	24.10	24.05	0.500	4.000	3.875	--	USS C110	19,800
5	24.10	24.05	0.500	4.000	3.875	--	USS RYH110	19,800
5	24.10	24.05	0.500	4.000	3.875	--	USS RYS110	19,800
5	24.10	24.05	0.500	4.000	3.875	--	P110 SR16	19,800
5	24.10	24.05	0.500	4.000	3.875	--	P110	19,800
5	24.10	24.05	0.500	4.000	3.875	--	P110 HC	22,480
5	24.10	24.05	0.500	4.000	3.875	--	P110 HP	24,140
5	24.10	24.05	0.500	4.000	3.875	--	Q125	22,500
5	24.10	24.05	0.500	4.000	3.875	--	Q125 HC	24,150
5	24.10	24.05	0.500	4.000	3.875	--	Q125 HP	25,880
5	24.10	24.05	0.500	4.000	3.875	--	USS 140	25,200
5	24.10	24.05	0.500	4.000	3.875	--	USS V150	27,000
5	26.70	26.66	0.562	3.876	3.751	--	USS GT80S	15,960
5	26.70	26.66	0.562	3.876	3.751	--	L80	15,960
5	26.70	26.66	0.562	3.876	3.751	--	L80 HC	18,720
5	26.70	26.66	0.562	3.876	3.751	--	L80 HP	19,550
5	26.70	26.66	0.562	3.876	3.751	--	N80 Type 1	15,960
5	26.70	26.66	0.562	3.876	3.751	--	N80	15,960
5	26.70	26.66	0.562	3.876	3.751	--	N80 HC	19,770
5	26.70	26.66	0.562	3.876	3.751	--	N80 HP	21,500
5	26.70	26.66	0.562	3.876	3.751	--	C90	17,950

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical			Lame' - Von Mises				Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
747	--	675	671	18,390	--	14,870	13,620	18,070	19,430	21,940	5.563	5.375			
747	--	675	671	18,390	--	14,870	13,620	18,070	19,430	21,940	5.563	5.375			
849	--	702	671	20,900	--	14,870	13,620	20,530	22,080	22,990	5.563	5.375			
849	--	729	724	20,900	--	16,900	15,480	20,530	22,080	23,870	5.563	--			
849	--	729	724	20,900	--	16,900	15,480	20,530	22,080	23,870	5.563	--			
917	--	756	724	22,570	--	16,900	15,480	22,170	23,850	24,880	5.563	--			
951	--	810	805	23,410	--	18,930	17,340	22,990	24,730	26,720	5.563	--			
1,019	--	864	858	25,080	--	20,280	18,580	24,640	26,500	28,650	5.563	--			
566	--	538	510	14,020	--	10,810	9,910	13,740	14,720	15,590	5.563	5.375			
566	--	538	510	14,020	--	10,810	9,910	13,740	14,720	15,590	5.563	5.375			
566	--	538	510	14,020	--	10,810	9,910	13,740	14,720	15,590	5.563	5.375			
601	--	538	510	14,890	--	10,810	9,910	14,600	15,640	15,590	5.563	5.375			
566	--	567	537	14,020	--	10,810	9,910	13,740	14,720	13,490	5.563	5.375			
566	--	567	537	14,020	--	10,810	9,910	13,740	14,720	16,410	5.563	5.375			
566	--	567	537	14,020	--	10,810	9,910	13,740	14,720	16,410	5.563	5.375			
672	--	582	537	16,640	--	10,810	9,910	16,320	17,480	17,360	5.563	5.375			
636	--	567	537	15,770	--	12,170	11,150	15,460	16,560	18,280	5.563	5.375			
636	--	567	537	15,770	--	12,170	11,150	15,460	16,560	18,280	5.563	5.375			
672	--	595	563	16,640	--	12,840	11,770	16,320	17,480	17,360	5.563	5.375			
672	--	595	563	16,640	--	12,840	11,770	16,320	17,480	19,250	5.563	5.375			
672	--	595	563	16,640	--	12,840	11,770	16,320	17,480	19,250	5.563	5.375			
707	--	623	590	17,520	--	13,520	12,390	17,180	18,400	20,210	5.563	5.375			
707	--	623	590	17,520	--	13,520	12,390	17,180	18,400	20,210	5.563	5.375			
778	--	--	--	19,270	--	--	--	18,900	20,240	21,240	--	--			
778	--	--	--	19,270	--	--	--	18,900	20,240	22,160	--	--			
778	--	--	--	19,270	--	--	--	18,900	20,240	22,160	--	--			
778	--	--	--	19,270	--	--	--	18,900	20,240	22,160	--	--			
778	--	708	671	19,270	--	14,870	13,620	18,900	20,240	20,820	5.563	5.375			
778	--	708	671	19,270	--	14,870	13,620	18,900	20,240	23,080	5.563	5.375			
778	--	708	671	19,270	--	14,870	13,620	18,900	20,240	23,080	5.563	5.375			
884	--	728	671	21,900	--	14,870	13,620	21,480	23,000	24,190	5.563	5.375			
884	--	765	724	21,900	--	16,900	15,480	21,480	23,000	25,120	5.563	--			
884	--	765	724	21,900	--	16,900	15,480	21,480	23,000	25,120	5.563	--			
954	--	786	724	23,650	--	16,900	15,480	23,190	24,840	26,180	5.563	--			
990	--	850	805	24,530	--	18,930	17,340	24,050	25,760	28,120	5.563	--			
1,060	--	907	858	26,280	--	20,280	18,580	25,770	27,600	30,150	5.563	--			
627	--	--	--	15,740	--	--	--	15,360	16,350	17,680	--	--			
627	--	--	--	15,740	--	--	--	15,360	16,350	17,680	--	--			
627	--	--	--	15,740	--	--	--	15,360	16,350	17,680	--	--			
666	--	--	--	16,730	--	--	--	16,320	17,370	17,680	--	--			
627	--	--	--	15,740	--	--	--	15,360	16,350	15,280	--	--			
627	--	--	--	15,740	--	--	--	15,360	16,350	18,610	--	--			
627	--	--	--	15,740	--	--	--	15,360	16,350	18,610	--	--			
744	--	--	--	18,700	--	--	--	18,240	19,420	19,690	--	--			
705	--	582	537	17,710	--	12,170	11,150	17,280	18,390	20,770	5.563	5.375			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5	26.70	26.66	0.562	3.876	3.751	--	USS C90	17,950
5	26.70	26.66	0.562	3.876	3.751	--	R95	18,950
5	26.70	26.66	0.562	3.876	3.751	--	T95	18,950
5	26.70	26.66	0.562	3.876	3.751	--	USS C95	18,950
5	26.70	26.66	0.562	3.876	3.751	--	USS C100	19,950
5	26.70	26.66	0.562	3.876	3.751	--	USS RYS100	19,950
5	26.70	26.66	0.562	3.876	3.751	--	C110	21,940
5	26.70	26.66	0.562	3.876	3.751	--	USS C110	21,940
5	26.70	26.66	0.562	3.876	3.751	--	USS RYS110	21,940
5	26.70	26.66	0.562	3.876	3.751	--	P110 SR16	21,940
5	26.70	26.66	0.562	3.876	3.751	--	P110	21,940
5	26.70	26.66	0.562	3.876	3.751	--	P110 HC	25,940
5	26.70	26.66	0.562	3.876	3.751	--	P110 HP	27,850
5	26.70	26.66	0.562	3.876	3.751	--	Q125	24,930
5	26.70	26.66	0.562	3.876	3.751	--	Q125 HC	27,940
5	26.70	26.66	0.562	3.876	3.751	--	Q125 HP	29,920
5	26.70	26.66	0.562	3.876	3.751	--	USS 140	27,930
5	26.70	26.66	0.562	3.876	3.751	--	USS V150	29,920
5 1/2	14.00	13.71	0.244	5.012	4.887	--	H40	2,620
5 1/2	14.00	13.71	0.244	5.012	4.887	--	J55	3,120
5 1/2	14.00	13.71	0.244	5.012	4.887	--	K55	3,120
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS GT80S	3,620
5 1/2	14.00	13.71	0.244	5.012	4.887	--	L80	3,620
5 1/2	14.00	13.71	0.244	5.012	4.887	--	L80 HC	4,640
5 1/2	14.00	13.71	0.244	5.012	4.887	--	L80 HP	5,040
5 1/2	14.00	13.71	0.244	5.012	4.887	--	N80 Type 1	3,620
5 1/2	14.00	13.71	0.244	5.012	4.887	--	N80	3,620
5 1/2	14.00	13.71	0.244	5.012	4.887	--	N80 HC	4,740
5 1/2	14.00	13.71	0.244	5.012	4.887	--	N80 HP	5,160
5 1/2	14.00	13.71	0.244	5.012	4.887	--	C90	3,860
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS C90	3,860
5 1/2	14.00	13.71	0.244	5.012	4.887	--	R95	3,970
5 1/2	14.00	13.71	0.244	5.012	4.887	--	T95	3,970
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS C95	3,970
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS C100	4,060
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS RYS100	4,060
5 1/2	14.00	13.71	0.244	5.012	4.887	--	C110	4,230
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS C110	4,230
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS RYH110	4,230
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS RYS110	4,230
5 1/2	14.00	13.71	0.244	5.012	4.887	--	P110 SR16	4,230
5 1/2	14.00	13.71	0.244	5.012	4.887	--	P110	4,230
5 1/2	14.00	13.71	0.244	5.012	4.887	--	P110 HC	5,190
5 1/2	14.00	13.71	0.244	5.012	4.887	--	P110 HP	5,630
5 1/2	14.00	13.71	0.244	5.012	4.887	--	Q125	4,400

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
705	--	582	537	17,710	--	12,170	11,150	17,280	18,390	20,770	5.563	5.375			
744	--	611	563	18,700	--	12,840	11,770	18,240	19,420	19,690	5.563	5.375			
744	--	611	563	18,700	--	12,840	11,770	18,240	19,420	21,860	5.563	5.375			
744	--	611	563	18,700	--	12,840	11,770	18,240	19,420	21,860	5.563	5.375			
784	--	640	590	19,680	--	13,520	12,390	19,200	20,440	22,960	5.563	5.375			
784	--	640	590	19,680	--	13,520	12,390	19,200	20,440	22,960	5.563	5.375			
862	--	--	--	21,650	--	--	--	21,120	22,480	24,120	--	--			
862	--	--	--	21,650	--	--	--	21,120	22,480	25,170	--	--			
862	--	--	--	21,650	--	--	--	21,120	22,480	25,170	--	--			
862	--	--	--	21,650	--	--	--	21,120	22,480	23,620	--	--			
862	--	728	671	21,650	--	14,870	13,620	21,120	22,480	26,220	5.563	5.375			
862	--	728	671	21,650	--	14,870	13,620	21,120	22,480	26,220	5.563	5.375			
980	--	728	671	24,600	--	14,870	13,620	24,000	25,550	27,470	5.563	5.375			
980	--	786	724	24,600	--	16,900	15,480	24,000	25,550	28,530	5.563	--			
980	--	786	724	24,600	--	16,900	15,480	24,000	25,550	28,530	5.563	--			
1,058	--	786	724	26,570	--	16,900	15,480	25,920	27,590	29,740	5.563	--			
1,097	--	873	805	27,550	--	18,930	17,340	26,880	28,610	31,940	5.563	--			
1,175	--	931	858	29,520	--	20,280	18,580	28,800	30,660	34,240	5.563	--			
161	130	--	--	3,110	3,110	--	--	3,100	3,440	3,400	6.050	--			
222	172	--	--	4,280	4,280	--	--	4,260	4,730	4,280	6.050	--			
222	189	--	--	4,280	4,280	--	--	4,260	4,730	5,420	6.050	--			
322	--	--	--	6,230	--	--	--	6,200	6,880	6,630	--	--			
322	--	--	--	6,230	--	--	--	6,200	6,880	6,630	--	--			
322	--	--	--	6,230	--	--	--	6,200	6,880	6,630	--	--			
342	--	--	--	6,610	--	--	--	6,590	7,310	6,630	--	--			
322	--	--	--	6,230	--	--	--	6,200	6,880	5,780	--	--			
322	--	--	--	6,230	--	--	--	6,200	6,880	6,970	--	--			
322	--	--	--	6,230	--	--	--	6,200	6,880	6,970	--	--			
383	--	--	--	7,390	--	--	--	7,360	8,170	7,380	--	--			
363	--	--	--	7,000	--	--	--	6,980	7,740	7,730	--	--			
363	--	--	--	7,000	--	--	--	6,980	7,740	7,730	--	--			
383	--	--	--	7,390	--	--	--	7,360	8,170	7,380	--	--			
383	--	--	--	7,390	--	--	--	7,360	8,170	8,140	--	--			
383	--	--	--	7,390	--	--	--	7,360	8,170	8,140	--	--			
403	--	--	--	7,780	--	--	--	7,750	8,600	8,550	--	--			
403	--	--	--	7,780	--	--	--	7,750	8,600	8,550	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	8,980	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	9,370	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	9,370	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	9,370	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	8,850	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	9,770	--	--			
443	--	--	--	8,560	--	--	--	8,530	9,460	9,770	--	--			
504	--	--	--	9,730	--	--	--	9,690	10,750	10,230	--	--			
504	--	--	--	9,730	--	--	--	9,690	10,750	10,630	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	14.00	13.71	0.244	5.012	4.887	--	Q125 HC	5,290
5 1/2	14.00	13.71	0.244	5.012	4.887	--	Q125 HP	5,740
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS 140	4,480
5 1/2	14.00	13.71	0.244	5.012	4.887	--	USS V150	4,490
5 1/2	15.50	15.36	0.275	4.950	4.825	--	J55	4,040
5 1/2	15.50	15.36	0.275	4.950	4.825	--	K55	4,040
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS GT80S	4,990
5 1/2	15.50	15.36	0.275	4.950	4.825	--	L80	4,990
5 1/2	15.50	15.36	0.275	4.950	4.825	--	L80 HC	5,970
5 1/2	15.50	15.36	0.275	4.950	4.825	--	L80 HP	6,420
5 1/2	15.50	15.36	0.275	4.950	4.825	--	N80 Type 1	4,990
5 1/2	15.50	15.36	0.275	4.950	4.825	--	N80	4,990
5 1/2	15.50	15.36	0.275	4.950	4.825	--	N80 HC	6,150
5 1/2	15.50	15.36	0.275	4.950	4.825	--	N80 HP	6,690
5 1/2	15.50	15.36	0.275	4.950	4.825	--	C90	5,260
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS C90	5,260
5 1/2	15.50	15.36	0.275	4.950	4.825	--	R95	5,380
5 1/2	15.50	15.36	0.275	4.950	4.825	--	T95	5,380
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS C95	5,380
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS C100	5,480
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS RYS100	5,480
5 1/2	15.50	15.36	0.275	4.950	4.825	--	C110	5,630
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS C110	5,630
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS RYH110	5,630
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS RYS110	5,630
5 1/2	15.50	15.36	0.275	4.950	4.825	--	P110 SR16	5,630
5 1/2	15.50	15.36	0.275	4.950	4.825	--	P110	5,630
5 1/2	15.50	15.36	0.275	4.950	4.825	--	P110 HC	6,970
5 1/2	15.50	15.36	0.275	4.950	4.825	--	P110 HP	7,550
5 1/2	15.50	15.36	0.275	4.950	4.825	--	Q125	5,890
5 1/2	15.50	15.36	0.275	4.950	4.825	--	Q125 HC	7,160
5 1/2	15.50	15.36	0.275	4.950	4.825	--	Q125 HP	7,750
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS 140	6,180
5 1/2	15.50	15.36	0.275	4.950	4.825	--	USS V150	6,320
5 1/2	17.00	16.89	0.304	4.892	4.767	--	J55	4,910
5 1/2	17.00	16.89	0.304	4.892	4.767	--	K55	4,910
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS GT80S	6,290
5 1/2	17.00	16.89	0.304	4.892	4.767	--	L80	6,290
5 1/2	17.00	16.89	0.304	4.892	4.767	--	L80 HC	7,200
5 1/2	17.00	16.89	0.304	4.892	4.767	--	L80 HP	7,680
5 1/2	17.00	16.89	0.304	4.892	4.767	--	N80 Type 1	6,290
5 1/2	17.00	16.89	0.304	4.892	4.767	--	N80	6,290
5 1/2	17.00	16.89	0.304	4.892	4.767	--	N80 HC	7,470
5 1/2	17.00	16.89	0.304	4.892	4.767	--	N80 HP	8,120
5 1/2	17.00	16.89	0.304	4.892	4.767	--	C90	6,740

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
504	--	--	--	9,730	--	--	--	9,690	10,750	10,630	--	--		
544	--	--	--	10,510	--	--	--	10,470	11,600	11,080	--	--		
564	--	--	--	10,890	--	--	--	10,850	12,030	11,900	--	--		
604	--	--	--	11,670	--	--	--	11,630	12,890	12,750	--	--		
248	202	217	300	4,820	4,820	4,820	4,820	4,800	5,300	4,840	6.050	5.875		
248	222	239	366	4,820	4,820	4,820	4,820	4,800	5,300	6,130	6.050	5.875		
361	--	--	--	7,010	--	--	--	6,980	7,710	7,490	--	--		
361	--	--	--	7,010	--	--	--	6,980	7,710	7,490	--	--		
361	--	--	--	7,010	--	--	--	6,980	7,710	7,490	--	--		
384	--	--	--	7,450	--	--	--	7,410	8,190	7,490	--	--		
361	--	--	--	7,010	--	--	--	6,980	7,710	6,530	--	--		
361	--	--	--	7,010	--	--	--	6,980	7,710	7,890	--	--		
361	--	--	--	7,010	--	--	--	6,980	7,710	7,890	--	--		
429	--	--	--	8,330	--	--	--	8,290	9,160	8,340	--	--		
406	--	--	--	7,890	--	--	--	7,850	8,670	8,750	--	--		
406	--	--	--	7,890	--	--	--	7,850	8,670	8,750	--	--		
429	--	--	--	8,330	--	--	--	8,290	9,160	8,340	--	--		
429	--	--	--	8,330	--	--	--	8,290	9,160	9,210	--	--		
429	--	--	--	8,330	--	--	--	8,290	9,160	9,210	--	--		
451	--	--	--	8,760	--	--	--	8,720	9,640	9,680	--	--		
451	--	--	--	8,760	--	--	--	8,720	9,640	9,680	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	10,170	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	10,610	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	10,610	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	10,610	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	10,010	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	11,050	--	--		
497	--	--	--	9,640	--	--	--	9,590	10,600	11,050	--	--		
564	--	--	--	10,950	--	--	--	10,900	12,050	11,580	--	--		
564	--	--	--	10,950	--	--	--	10,900	12,050	12,020	--	--		
564	--	--	--	10,950	--	--	--	10,900	12,050	12,020	--	--		
609	--	--	--	11,830	--	--	--	11,770	13,010	12,530	--	--		
632	--	--	--	12,270	--	--	--	12,210	13,490	13,460	--	--		
677	--	--	--	13,150	--	--	--	13,080	14,460	14,430	--	--		
273	229	247	329	5,320	5,320	5,320	5,320	5,290	5,830	5,360	6.050	5.875		
273	252	272	402	5,320	5,320	5,320	5,320	5,290	5,830	6,780	6.050	5.875		
397	--	338	428	7,740	--	7,740	7,740	7,690	8,480	8,300	6.050	5.875		
397	--	338	428	7,740	--	7,740	7,740	7,690	8,480	8,300	6.050	5.875		
397	--	338	428	7,740	--	7,740	7,740	7,690	8,480	8,300	6.050	5.875		
422	--	338	433	8,220	--	8,220	8,220	8,170	9,010	8,300	6.050	5.875		
397	--	348	446	7,740	--	7,740	7,740	7,690	8,480	7,230	6.050	5.875		
397	--	348	446	7,740	--	7,740	7,740	7,690	8,480	8,740	6.050	5.875		
397	--	348	446	7,740	--	7,740	7,740	7,690	8,480	8,740	6.050	5.875		
471	--	374	480	9,190	--	9,190	8,990	9,130	10,070	9,240	6.050	5.875		
447	--	356	456	8,710	--	8,710	8,710	8,650	9,540	9,700	6.050	5.875		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS C90	6,740
5 1/2	17.00	16.89	0.304	4.892	4.767	--	R95	6,940
5 1/2	17.00	16.89	0.304	4.892	4.767	--	T95	6,940
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS C95	6,940
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS C100	7,140
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS RYS100	7,140
5 1/2	17.00	16.89	0.304	4.892	4.767	--	C110	7,480
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS C110	7,480
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS RYH110	7,480
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS RYS110	7,480
5 1/2	17.00	16.89	0.304	4.892	4.767	--	P110 SR16	7,480
5 1/2	17.00	16.89	0.304	4.892	4.767	--	P110	7,480
5 1/2	17.00	16.89	0.304	4.892	4.767	--	P110 HC	8,730
5 1/2	17.00	16.89	0.304	4.892	4.767	--	P110 HP	9,440
5 1/2	17.00	16.89	0.304	4.892	4.767	--	Q125	7,890
5 1/2	17.00	16.89	0.304	4.892	4.767	--	Q125 HC	9,050
5 1/2	17.00	16.89	0.304	4.892	4.767	--	Q125 HP	9,780
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS 140	8,180
5 1/2	17.00	16.89	0.304	4.892	4.767	--	USS V150	8,290
5 1/2	20.00	19.83	0.361	4.778	4.653	--	J55	6,610
5 1/2	20.00	19.83	0.361	4.778	4.653	--	K55	6,610
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS GT80S	8,830
5 1/2	20.00	19.83	0.361	4.778	4.653	--	L80	8,830
5 1/2	20.00	19.83	0.361	4.778	4.653	--	L80 HC	9,490
5 1/2	20.00	19.83	0.361	4.778	4.653	--	L80 HP	10,020
5 1/2	20.00	19.83	0.361	4.778	4.653	--	N80 Type 1	8,830
5 1/2	20.00	19.83	0.361	4.778	4.653	--	N80	8,830
5 1/2	20.00	19.83	0.361	4.778	4.653	--	N80 HC	9,920
5 1/2	20.00	19.83	0.361	4.778	4.653	--	N80 HP	10,790
5 1/2	20.00	19.83	0.361	4.778	4.653	--	C90	9,630
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS C90	9,630
5 1/2	20.00	19.83	0.361	4.778	4.653	--	R95	10,010
5 1/2	20.00	19.83	0.361	4.778	4.653	--	T95	10,010
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS C95	10,010
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS C100	10,390
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS RYS100	10,390
5 1/2	20.00	19.83	0.361	4.778	4.653	--	C110	11,100
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS C110	11,100
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS RYH110	11,100
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS RYS110	11,100
5 1/2	20.00	19.83	0.361	4.778	4.653	--	P110 SR16	11,100
5 1/2	20.00	19.83	0.361	4.778	4.653	--	P110	11,100
5 1/2	20.00	19.83	0.361	4.778	4.653	--	P110 HC	12,200
5 1/2	20.00	19.83	0.361	4.778	4.653	--	P110 HP	13,150
5 1/2	20.00	19.83	0.361	4.778	4.653	--	Q125	12,080

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
447	--	356	456	8,710	--	8,710	8,710	8,650	9,540	9,700	6.050	5.875		
471	--	374	480	9,190	--	9,190	9,190	9,130	10,070	9,240	6.050	5.875		
471	--	374	480	9,190	--	9,190	9,190	9,130	10,070	10,210	6.050	5.875		
471	--	374	480	9,190	--	9,190	9,190	9,130	10,070	10,210	6.050	5.875		
496	--	392	503	9,670	--	9,670	9,670	9,620	10,600	10,730	6.050	5.875		
496	--	392	503	9,670	--	9,670	9,670	9,620	10,600	10,730	6.050	5.875		
546	--	--	--	10,640	--	--	--	10,580	11,660	11,270	--	--		
546	--	--	--	10,640	--	--	--	10,580	11,660	11,760	--	--		
546	--	--	--	10,640	--	--	--	10,580	11,660	11,760	--	--		
546	--	--	--	10,640	--	--	--	10,580	11,660	11,760	--	--		
546	--	445	568	10,640	--	10,640	10,640	10,580	11,660	11,090	6.050	5.875		
546	--	445	568	10,640	--	10,640	10,640	10,580	11,660	12,250	6.050	5.875		
546	--	445	568	10,640	--	10,640	10,640	10,580	11,660	12,250	6.050	5.875		
620	--	463	601	12,090	--	12,090	12,090	12,020	13,260	12,840	6.050	5.875		
620	--	481	620	12,090	--	12,090	12,090	12,020	13,260	13,330	6.050	--		
620	--	481	620	12,090	--	12,090	12,090	12,020	13,260	13,330	6.050	--		
670	--	498	648	13,060	--	13,060	13,060	12,980	14,320	13,890	6.050	--		
695	--	534	690	13,540	--	13,540	13,540	13,460	14,850	14,920	6.050	--		
744	--	570	736	14,510	--	14,510	14,510	14,420	15,910	16,000	6.050	--		
321	--	--	--	6,320	--	--	--	6,270	6,860	6,410	--	--		
321	--	--	--	6,320	--	--	--	6,270	6,860	8,110	--	--		
466	--	416	503	9,190	--	9,190	8,990	9,120	9,980	9,940	6.050	5.875		
466	--	416	503	9,190	--	9,190	8,990	9,120	9,980	9,940	6.050	5.875		
466	--	416	503	9,190	--	9,190	8,990	9,120	9,980	9,940	6.050	5.875		
495	--	416	509	9,770	--	9,770	8,990	9,690	10,600	9,940	6.050	5.875		
466	--	428	524	9,190	--	9,190	8,990	9,120	9,980	8,650	6.050	5.875		
466	--	428	524	9,190	--	9,190	8,990	9,120	9,980	10,470	6.050	5.875		
466	--	428	524	9,190	--	9,190	8,990	9,120	9,980	10,470	6.050	5.875		
554	--	460	563	10,920	--	9,880	8,990	10,830	11,850	11,070	6.050	5.875		
525	--	438	536	10,340	--	10,340	10,120	10,260	11,230	11,630	6.050	5.875		
525	--	438	536	10,340	--	10,340	10,120	10,260	11,230	11,630	6.050	5.875		
554	--	460	563	10,920	--	10,920	10,680	10,830	11,850	11,070	6.050	5.875		
554	--	460	563	10,920	--	10,920	10,680	10,830	11,850	12,240	6.050	5.875		
554	--	460	563	10,920	--	10,920	10,680	10,830	11,850	12,240	6.050	5.875		
583	--	482	591	11,490	--	11,490	11,240	11,390	12,470	12,860	6.050	5.875		
583	--	482	591	11,490	--	11,490	11,240	11,390	12,470	12,860	6.050	5.875		
641	--	--	--	12,640	--	--	--	12,530	13,720	13,510	--	--		
641	--	--	--	12,640	--	--	--	12,530	13,720	14,100	--	--		
641	--	--	--	12,640	--	--	--	12,530	13,720	14,100	--	--		
641	--	--	--	12,640	--	--	--	12,530	13,720	14,100	--	--		
641	--	548	667	12,640	--	12,640	12,360	12,530	13,720	13,280	6.050	5.875		
641	--	548	667	12,640	--	12,640	12,360	12,530	13,720	14,690	6.050	5.875		
641	--	548	667	12,640	--	12,640	12,360	12,530	13,720	14,690	6.050	5.875		
729	--	570	706	14,360	--	13,580	12,360	14,240	15,590	15,390	6.050	5.875		
729	--	592	728	14,360	--	14,360	14,050	14,240	15,590	15,980	6.050	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	20.00	19.83	0.361	4.778	4.653	--	Q125 HC	12,830
5 1/2	20.00	19.83	0.361	4.778	4.653	--	Q125 HP	13,820
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS 140	12,950
5 1/2	20.00	19.83	0.361	4.778	4.653	--	USS V150	13,460
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS GT80S	11,160
5 1/2	23.00	22.56	0.415	4.670	4.545	--	L80	11,160
5 1/2	23.00	22.56	0.415	4.670	4.545	--	L80 HC	11,530
5 1/2	23.00	22.56	0.415	4.670	4.545	--	L80 HP	12,110
5 1/2	23.00	22.56	0.415	4.670	4.545	--	N80 Type 1	11,160
5 1/2	23.00	22.56	0.415	4.670	4.545	--	N80	11,160
5 1/2	23.00	22.56	0.415	4.670	4.545	--	N80 HC	12,110
5 1/2	23.00	22.56	0.415	4.670	4.545	--	N80 HP	13,160
5 1/2	23.00	22.56	0.415	4.670	4.545	--	C90	12,380
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS C90	12,380
5 1/2	23.00	22.56	0.415	4.670	4.545	--	R95	12,940
5 1/2	23.00	22.56	0.415	4.670	4.545	--	T95	12,940
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS C95	12,940
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS C100	13,480
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS RYS100	13,480
5 1/2	23.00	22.56	0.415	4.670	4.545	--	C110	14,540
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS C110	14,540
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS RYH110	14,540
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS RYS110	14,540
5 1/2	23.00	22.56	0.415	4.670	4.545	--	P110 SR16	14,540
5 1/2	23.00	22.56	0.415	4.670	4.545	--	P110	14,540
5 1/2	23.00	22.56	0.415	4.670	4.545	--	P110 HC	15,310
5 1/2	23.00	22.56	0.415	4.670	4.545	--	P110 HP	16,470
5 1/2	23.00	22.56	0.415	4.670	4.545	--	Q125	16,070
5 1/2	23.00	22.56	0.415	4.670	4.545	--	Q125 HC	16,270
5 1/2	23.00	22.56	0.415	4.670	4.545	--	Q125 HP	17,470
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS 140	17,500
5 1/2	23.00	22.56	0.415	4.670	4.545	--	USS V150	18,390
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS GT80S	12,650
5 1/2	26.00	25.56	0.476	4.548	4.423	--	L80	12,650
5 1/2	26.00	25.56	0.476	4.548	4.423	--	L80 HC	13,740
5 1/2	26.00	25.56	0.476	4.548	4.423	--	L80 HP	14,380
5 1/2	26.00	25.56	0.476	4.548	4.423	--	N80 Type 1	12,650
5 1/2	26.00	25.56	0.476	4.548	4.423	--	N80	12,650
5 1/2	26.00	25.56	0.476	4.548	4.423	--	N80 HC	14,460
5 1/2	26.00	25.56	0.476	4.548	4.423	--	N80 HP	15,720
5 1/2	26.00	25.56	0.476	4.548	4.423	--	C90	14,240
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS C90	14,240
5 1/2	26.00	25.56	0.476	4.548	4.423	--	R95	15,030
5 1/2	26.00	25.56	0.476	4.548	4.423	--	T95	15,030
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS C95	15,030

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
729	--	592	728	14,360	--	14,360	14,050	14,240	15,590	15,980	6.050	--			
787	--	614	761	15,510	--	15,430	14,050	15,380	16,840	16,650	6.050	--			
816	--	657	810	16,090	--	16,090	15,740	15,950	17,460	17,890	6.050	--			
874	--	701	865	17,240	--	17,240	16,860	17,090	18,710	19,180	6.050	--			
530	--	489	550	10,560	--	9,880	8,990	10,440	11,370	11,510	6.050	5.875			
530	--	489	550	10,560	--	9,880	8,990	10,440	11,370	11,510	6.050	5.875			
530	--	489	550	10,560	--	9,880	8,990	10,440	11,370	11,510	6.050	5.875			
564	--	489	550	11,220	--	9,880	8,990	11,100	12,080	11,510	6.050	5.875			
530	--	502	579	10,560	--	9,880	8,990	10,440	11,370	10,000	6.050	5.875			
530	--	502	579	10,560	--	9,880	8,990	10,440	11,370	12,120	6.050	5.875			
530	--	502	579	10,560	--	9,880	8,990	10,440	11,370	12,120	6.050	5.875			
630	--	540	579	12,540	--	9,880	8,990	12,400	13,500	12,820	6.050	5.875			
597	--	514	579	11,880	--	11,110	10,120	11,750	12,790	13,480	6.050	5.875			
597	--	514	579	11,880	--	11,110	10,120	11,750	12,790	13,480	6.050	5.875			
630	--	540	608	12,540	--	11,730	10,680	12,400	13,500	12,820	6.050	5.875			
630	--	540	608	12,540	--	11,730	10,680	12,400	13,500	14,180	6.050	5.875			
630	--	540	608	12,540	--	11,730	10,680	12,400	13,500	14,180	6.050	5.875			
663	--	566	637	13,200	--	12,350	11,240	13,050	14,210	14,900	6.050	5.875			
663	--	566	637	13,200	--	12,350	11,240	13,050	14,210	14,900	6.050	5.875			
729	--	--	--	14,520	--	--	--	14,360	15,630	15,650	--	--			
729	--	--	--	14,520	--	--	--	14,360	15,630	16,330	--	--			
729	--	--	--	14,520	--	--	--	14,360	15,630	16,330	--	--			
729	--	--	--	14,520	--	--	--	14,360	15,630	16,330	--	--			
729	--	643	724	14,520	--	13,580	12,360	14,360	15,630	15,370	6.050	5.875			
729	--	643	724	14,520	--	13,580	12,360	14,360	15,630	17,010	6.050	5.875			
729	--	643	724	14,520	--	13,580	12,360	14,360	15,630	17,010	6.050	5.875			
829	--	669	724	16,500	--	13,580	12,360	16,320	17,760	17,830	6.050	5.875			
829	--	694	782	16,500	--	15,430	14,050	16,320	17,760	18,510	6.050	--			
829	--	694	782	16,500	--	15,430	14,050	16,320	17,760	18,510	6.050	--			
895	--	720	782	17,820	--	15,430	14,050	17,620	19,180	19,290	6.050	--			
928	--	771	869	18,480	--	17,290	15,740	18,280	19,890	20,720	6.050	--			
995	--	823	927	19,800	--	18,520	16,860	19,580	21,310	22,220	6.050	--			
601	--	568	550	12,130	--	9,880	8,990	11,950	12,900	13,340	6.050	5.875			
601	--	568	550	12,130	--	9,880	8,990	11,950	12,900	13,340	6.050	5.875			
601	--	568	550	12,130	--	9,880	8,990	11,950	12,900	13,340	6.050	5.875			
639	--	568	550	12,890	--	9,880	8,990	12,700	13,710	13,340	6.050	5.875			
601	--	584	579	12,130	--	9,880	8,990	11,950	12,900	11,580	6.050	5.875			
601	--	584	579	12,130	--	9,880	8,990	11,950	12,900	14,050	6.050	5.875			
601	--	584	579	12,130	--	9,880	8,990	11,950	12,900	14,050	6.050	5.875			
714	--	628	579	14,410	--	9,880	8,990	14,200	15,320	14,860	6.050	5.875			
676	--	598	579	13,650	--	11,110	10,120	13,450	14,520	15,640	6.050	5.875			
676	--	598	579	13,650	--	11,110	10,120	13,450	14,520	15,640	6.050	5.875			
714	--	628	608	14,410	--	11,730	10,680	14,200	15,320	14,860	6.050	5.875			
714	--	628	608	14,410	--	11,730	10,680	14,200	15,320	16,460	6.050	5.875			
714	--	628	608	14,410	--	11,730	10,680	14,200	15,320	16,460	6.050	5.875			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS C100	15,820
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS RYS100	15,820
5 1/2	26.00	25.56	0.476	4.548	4.423	--	C110	17,400
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS C110	17,400
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS RYH110	17,400
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS RYS110	17,400
5 1/2	26.00	25.56	0.476	4.548	4.423	--	P110 SR16	17,400
5 1/2	26.00	25.56	0.476	4.548	4.423	--	P110	17,400
5 1/2	26.00	25.56	0.476	4.548	4.423	--	P110 HC	18,620
5 1/2	26.00	25.56	0.476	4.548	4.423	--	P110 HP	20,020
5 1/2	26.00	25.56	0.476	4.548	4.423	--	Q125	19,770
5 1/2	26.00	25.56	0.476	4.548	4.423	--	Q125 HC	19,930
5 1/2	26.00	25.56	0.476	4.548	4.423	--	Q125 HP	21,370
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS 140	22,140
5 1/2	26.00	25.56	0.476	4.548	4.423	--	USS V150	23,730
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS GT80S	13,220
5 1/2	26.80	26.73	0.500	4.500	4.375	--	L80	13,220
5 1/2	26.80	26.73	0.500	4.500	4.375	--	L80 HC	14,590
5 1/2	26.80	26.73	0.500	4.500	4.375	--	L80 HP	15,260
5 1/2	26.80	26.73	0.500	4.500	4.375	--	N80 Type 1	13,220
5 1/2	26.80	26.73	0.500	4.500	4.375	--	N80	13,220
5 1/2	26.80	26.73	0.500	4.500	4.375	--	N80 HC	15,370
5 1/2	26.80	26.73	0.500	4.500	4.375	--	N80 HP	16,710
5 1/2	26.80	26.73	0.500	4.500	4.375	--	C90	14,880
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS C90	14,880
5 1/2	26.80	26.73	0.500	4.500	4.375	--	T95	15,700
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS C95	15,700
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS C100	16,530
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS RYS100	16,530
5 1/2	26.80	26.73	0.500	4.500	4.375	--	C110	18,180
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS C110	18,180
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS RYH110	18,180
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS RYS110	18,180
5 1/2	26.80	26.73	0.500	4.500	4.375	--	P110 SR16	18,180
5 1/2	26.80	26.73	0.500	4.500	4.375	--	P110	18,180
5 1/2	26.80	26.73	0.500	4.500	4.375	--	P110 HC	19,890
5 1/2	26.80	26.73	0.500	4.500	4.375	--	P110 HP	21,370
5 1/2	26.80	26.73	0.500	4.500	4.375	--	Q125	20,660
5 1/2	26.80	26.73	0.500	4.500	4.375	--	Q125 HC	21,320
5 1/2	26.80	26.73	0.500	4.500	4.375	--	Q125 HP	22,850
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS 140	23,140
5 1/2	26.80	26.73	0.500	4.500	4.375	--	USS V150	24,790
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS GT80S	13,930
5 1/2	28.40	28.16	0.530	4.440	4.315	--	L80	13,930
5 1/2	28.40	28.16	0.530	4.440	4.315	--	L80 HC	15,640

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
751	--	658	637	15,160	--	12,350	11,240	14,940	16,130	17,290	6.050	5.875		
751	--	658	637	15,160	--	12,350	11,240	14,940	16,130	17,290	6.050	5.875		
826	--	--	--	16,680	--	--	--	16,440	17,740	18,160	--	--		
826	--	--	--	16,680	--	--	--	16,440	17,740	18,950	--	--		
826	--	--	--	16,680	--	--	--	16,440	17,740	18,950	--	--		
826	--	--	--	16,680	--	--	--	16,440	17,740	18,950	--	--		
826	--	748	724	16,680	--	13,580	12,360	16,440	17,740	17,820	6.050	5.875		
826	--	748	724	16,680	--	13,580	12,360	16,440	17,740	19,740	6.050	5.875		
826	--	748	724	16,680	--	13,580	12,360	16,440	17,740	19,740	6.050	5.875		
939	--	778	724	18,950	--	13,580	12,360	18,680	20,160	20,690	6.050	5.875		
939	--	808	782	18,950	--	15,430	14,050	18,680	20,160	21,480	6.050	--		
939	--	808	782	18,950	--	15,430	14,050	18,680	20,160	21,480	6.050	--		
1,014	--	838	782	20,470	--	15,430	14,050	20,170	21,770	22,390	6.050	--		
1,052	--	897	869	21,230	--	17,290	15,740	20,920	22,580	24,050	6.050	--		
1,127	--	957	927	22,750	--	18,520	16,860	22,410	24,190	25,780	6.050	--		
628	--	--	--	12,740	--	--	--	12,540	13,500	14,070	--	--		
628	--	--	--	12,740	--	--	--	12,540	13,500	14,070	--	--		
628	--	--	--	12,740	--	--	--	12,540	13,500	14,070	--	--		
668	--	--	--	13,540	--	--	--	13,320	14,340	14,070	--	--		
628	--	--	--	12,740	--	--	--	12,540	13,500	12,190	--	--		
628	--	--	--	12,740	--	--	--	12,540	13,500	14,810	--	--		
628	--	--	--	12,740	--	--	--	12,540	13,500	14,810	--	--		
746	--	--	--	15,130	--	--	--	14,890	16,030	15,660	--	--		
707	--	--	--	14,330	--	--	--	14,100	15,190	16,490	--	--		
707	--	--	--	14,330	--	--	--	14,100	15,190	16,490	--	--		
746	--	--	--	15,130	--	--	--	14,890	16,030	17,350	--	--		
746	--	--	--	15,130	--	--	--	14,890	16,030	17,350	--	--		
785	--	--	--	15,930	--	--	--	15,670	16,870	18,230	--	--		
785	--	--	--	15,930	--	--	--	15,670	16,870	18,230	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	19,150	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	19,980	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	19,980	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	19,980	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	18,790	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	20,820	--	--		
864	--	--	--	17,520	--	--	--	17,240	18,560	20,820	--	--		
982	--	--	--	19,910	--	--	--	19,590	21,090	21,810	--	--		
982	--	--	--	19,910	--	--	--	19,590	21,090	22,650	--	--		
982	--	--	--	19,910	--	--	--	19,590	21,090	22,650	--	--		
1,060	--	--	--	21,500	--	--	--	21,160	22,780	23,610	--	--		
1,100	--	--	--	22,300	--	--	--	21,940	23,620	25,360	--	--		
1,178	--	--	--	23,890	--	--	--	23,510	25,310	27,180	--	--		
662	--	--	--	13,500	--	--	--	13,260	14,230	14,960	--	--		
662	--	--	--	13,500	--	--	--	13,260	14,230	14,960	--	--		
662	--	--	--	13,500	--	--	--	13,260	14,230	14,960	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	28.40	28.16	0.530	4.440	4.315	--	L80 HP	16,350
5 1/2	28.40	28.16	0.530	4.440	4.315	--	N80	13,930
5 1/2	28.40	28.16	0.530	4.440	4.315	--	N80 HC	16,500
5 1/2	28.40	28.16	0.530	4.440	4.315	--	N80 HP	17,930
5 1/2	28.40	28.16	0.530	4.440	4.315	--	C90	15,670
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS C90	15,670
5 1/2	28.40	28.16	0.530	4.440	4.315	--	R95	16,540
5 1/2	28.40	28.16	0.530	4.440	4.315	--	T95	16,540
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS C95	16,540
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS C100	17,410
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS RYS100	17,410
5 1/2	28.40	28.16	0.530	4.440	4.315	--	C110	19,150
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS C110	19,150
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS RYH110	19,150
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS RYS110	19,150
5 1/2	28.40	28.16	0.530	4.440	4.315	--	P110 SR16	19,150
5 1/2	28.40	28.16	0.530	4.440	4.315	--	P110	19,150
5 1/2	28.40	28.16	0.530	4.440	4.315	--	P110 HC	21,450
5 1/2	28.40	28.16	0.530	4.440	4.315	--	P110 HP	23,040
5 1/2	28.40	28.16	0.530	4.440	4.315	--	Q125	21,760
5 1/2	28.40	28.16	0.530	4.440	4.315	--	Q125 HC	23,030
5 1/2	28.40	28.16	0.530	4.440	4.315	--	Q125 HP	24,680
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS 140	24,380
5 1/2	28.40	28.16	0.530	4.440	4.315	--	USS V150	26,120
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS GT80S	14,670
5 1/2	29.70	29.67	0.562	4.376	4.251	--	L80	14,670
5 1/2	29.70	29.67	0.562	4.376	4.251	--	L80 HC	16,770
5 1/2	29.70	29.67	0.562	4.376	4.251	--	L80 HP	17,510
5 1/2	29.70	29.67	0.562	4.376	4.251	--	N80	14,670
5 1/2	29.70	29.67	0.562	4.376	4.251	--	N80 HC	17,690
5 1/2	29.70	29.67	0.562	4.376	4.251	--	N80 HP	19,230
5 1/2	29.70	29.67	0.562	4.376	4.251	--	C90	16,510
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS C90	16,510
5 1/2	29.70	29.67	0.562	4.376	4.251	--	T95	17,430
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS C95	17,430
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS C100	18,340
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS RYS100	18,340
5 1/2	29.70	29.67	0.562	4.376	4.251	--	C110	20,180
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS C110	20,180
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS RYH110	20,180
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS RYS110	20,180
5 1/2	29.70	29.67	0.562	4.376	4.251	--	P110 SR16	20,180
5 1/2	29.70	29.67	0.562	4.376	4.251	--	P110	20,180
5 1/2	29.70	29.67	0.562	4.376	4.251	--	P110 HC	23,090
5 1/2	29.70	29.67	0.562	4.376	4.251	--	P110 HP	24,800

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter					
				Pipe Body	API Historical			Lame' - Von Mises			Regular Coupling	Special Clr Coupling				
Joint Strength, 1,000 lbs					Threaded & Coupled			Open End	Capped End							
Yield	Threaded and Coupled				STC	LTC	BTC									
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.				
703	--	--	--	14,340	--	--	--	14,080	15,120	14,960	--	--				
662	--	--	--	13,500	--	--	--	13,260	14,230	15,750	--	--				
662	--	--	--	13,500	--	--	--	13,260	14,230	15,750	--	--				
786	--	--	--	16,030	--	--	--	15,740	16,900	16,660	--	--				
745	--	--	--	15,190	--	--	--	14,910	16,010	17,550	--	--				
745	--	--	--	15,190	--	--	--	14,910	16,010	17,550	--	--				
786	--	--	--	16,030	--	--	--	15,740	16,900	16,660	--	--				
786	--	--	--	16,030	--	--	--	15,740	16,900	18,470	--	--				
786	--	--	--	16,030	--	--	--	15,740	16,900	18,470	--	--				
828	--	--	--	16,870	--	--	--	16,570	17,790	19,400	--	--				
828	--	--	--	16,870	--	--	--	16,570	17,790	19,400	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	20,380	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	21,270	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	21,270	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	21,270	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	19,990	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	22,160	--	--				
910	--	--	--	18,560	--	--	--	18,230	19,570	22,160	--	--				
1,034	--	--	--	21,090	--	--	--	20,710	22,240	23,220	--	--				
1,034	--	--	--	21,090	--	--	--	20,710	22,240	24,110	--	--				
1,034	--	--	--	21,090	--	--	--	20,710	22,240	24,110	--	--				
1,117	--	--	--	22,780	--	--	--	22,370	24,020	25,130	--	--				
1,159	--	--	--	23,620	--	--	--	23,200	24,910	26,990	--	--				
1,241	--	--	--	25,310	--	--	--	24,850	26,690	28,930	--	--				
697	--	--	--	14,310	--	--	--	14,020	15,010	15,940	--	--				
697	--	--	--	14,310	--	--	--	14,020	15,010	15,940	--	--				
697	--	--	--	14,310	--	--	--	14,020	15,010	15,940	--	--				
741	--	--	--	15,210	--	--	--	14,900	15,950	15,940	--	--				
697	--	--	--	14,310	--	--	--	14,020	15,010	16,780	--	--				
697	--	--	--	14,310	--	--	--	14,020	15,010	16,780	--	--				
828	--	--	--	17,000	--	--	--	16,650	17,820	17,750	--	--				
785	--	--	--	16,100	--	--	--	15,780	16,890	18,710	--	--				
785	--	--	--	16,100	--	--	--	15,780	16,890	18,710	--	--				
828	--	--	--	17,000	--	--	--	16,650	17,820	19,690	--	--				
828	--	--	--	17,000	--	--	--	16,650	17,820	19,690	--	--				
872	--	--	--	17,890	--	--	--	17,530	18,760	20,680	--	--				
872	--	--	--	17,890	--	--	--	17,530	18,760	20,680	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	21,730	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	22,670	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	22,670	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	22,670	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	21,290	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	23,620	--	--				
959	--	--	--	19,680	--	--	--	19,280	20,640	23,620	--	--				
1,090	--	--	--	22,360	--	--	--	21,910	23,450	24,750	--	--				

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	29.70	29.67	0.562	4.376	4.251	--	Q125	22,930
5 1/2	29.70	29.67	0.562	4.376	4.251	--	Q125 HC	24,830
5 1/2	29.70	29.67	0.562	4.376	4.251	--	Q125 HP	26,600
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS 140	25,680
5 1/2	29.70	29.67	0.562	4.376	4.251	--	USS V150	27,510
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS GT80S	16,120
5 1/2	32.60	32.57	0.625	4.250	4.125	--	L80	16,120
5 1/2	32.60	32.57	0.625	4.250	4.125	--	L80 HC	18,960
5 1/2	32.60	32.57	0.625	4.250	4.125	--	L80 HP	19,790
5 1/2	32.60	32.57	0.625	4.250	4.125	--	N80	16,120
5 1/2	32.60	32.57	0.625	4.250	4.125	--	N80 HC	20,030
5 1/2	32.60	32.57	0.625	4.250	4.125	--	N80 HP	21,770
5 1/2	32.60	32.57	0.625	4.250	4.125	--	C90	18,130
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS C90	18,130
5 1/2	32.60	32.57	0.625	4.250	4.125	--	T95	19,140
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS C95	19,140
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS C100	20,140
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS RYS100	20,140
5 1/2	32.60	32.57	0.625	4.250	4.125	--	C110	22,160
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS C110	22,160
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS RYH110	22,160
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS RYS110	22,160
5 1/2	32.60	32.57	0.625	4.250	4.125	--	P110 SR16	22,160
5 1/2	32.60	32.57	0.625	4.250	4.125	--	P110	22,160
5 1/2	32.60	32.57	0.625	4.250	4.125	--	P110 HC	26,280
5 1/2	32.60	32.57	0.625	4.250	4.125	--	P110 HP	28,220
5 1/2	32.60	32.57	0.625	4.250	4.125	--	Q125	25,180
5 1/2	32.60	32.57	0.625	4.250	4.125	--	Q125 HC	28,310
5 1/2	32.60	32.57	0.625	4.250	4.125	--	Q125 HP	30,320
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS 140	28,200
5 1/2	32.60	32.57	0.625	4.250	4.125	--	USS V150	30,220
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS GT80S	17,480
5 1/2	35.30	35.35	0.687	4.126	4.001	--	L80	17,480
5 1/2	35.30	35.35	0.687	4.126	4.001	--	L80 HC	21,120
5 1/2	35.30	35.35	0.687	4.126	4.001	--	L80 HP	22,030
5 1/2	35.30	35.35	0.687	4.126	4.001	--	N80	17,480
5 1/2	35.30	35.35	0.687	4.126	4.001	--	N80 HC	22,320
5 1/2	35.30	35.35	0.687	4.126	4.001	--	N80 HP	24,260
5 1/2	35.30	35.35	0.687	4.126	4.001	--	C90	19,670
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS C90	19,670
5 1/2	35.30	35.35	0.687	4.126	4.001	--	T95	20,760
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS C95	20,760
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS C100	21,850
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS RYS100	21,850
5 1/2	35.30	35.35	0.687	4.126	4.001	--	C110	24,040

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises				Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,090	--	--	--	22,360	--	--	--	21,910	23,450	25,700	--	--
1,090	--	--	--	22,360	--	--	--	21,910	23,450	25,700	--	--
1,177	--	--	--	24,150	--	--	--	23,660	25,330	26,780	--	--
1,221	--	--	--	25,050	--	--	--	24,540	26,270	28,770	--	--
1,308	--	--	--	26,840	--	--	--	26,290	28,140	30,840	--	--
766	--	--	--	15,910	--	--	--	15,520	16,510	17,890	--	--
766	--	--	--	15,910	--	--	--	15,520	16,510	17,890	--	--
766	--	--	--	15,910	--	--	--	15,520	16,510	17,890	--	--
814	--	--	--	16,910	--	--	--	16,490	17,540	17,890	--	--
766	--	--	--	15,910	--	--	--	15,520	16,510	18,830	--	--
766	--	--	--	15,910	--	--	--	15,520	16,510	18,830	--	--
909	--	--	--	18,900	--	--	--	18,430	19,610	19,920	--	--
861	--	--	--	17,900	--	--	--	17,460	18,570	21,010	--	--
861	--	--	--	17,900	--	--	--	17,460	18,570	21,010	--	--
909	--	--	--	18,900	--	--	--	18,430	19,610	22,120	--	--
909	--	--	--	18,900	--	--	--	18,430	19,610	22,120	--	--
957	--	--	--	19,890	--	--	--	19,400	20,640	23,230	--	--
957	--	--	--	19,890	--	--	--	19,400	20,640	23,230	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	24,410	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	25,470	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	25,470	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	25,470	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	23,890	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	26,530	--	--
1,053	--	--	--	21,880	--	--	--	21,330	22,700	26,530	--	--
1,197	--	--	--	24,860	--	--	--	24,240	25,800	27,800	--	--
1,197	--	--	--	24,860	--	--	--	24,240	25,800	28,870	--	--
1,197	--	--	--	24,860	--	--	--	24,240	25,800	28,870	--	--
1,292	--	--	--	26,850	--	--	--	26,180	27,860	30,090	--	--
1,340	--	--	--	27,850	--	--	--	27,150	28,890	32,320	--	--
1,436	--	--	--	29,840	--	--	--	29,090	30,960	34,640	--	--
831	--	--	--	17,480	--	--	--	16,960	17,950	19,840	--	--
831	--	--	--	17,480	--	--	--	16,960	17,950	19,840	--	--
831	--	--	--	17,480	--	--	--	16,960	17,950	19,840	--	--
883	--	--	--	18,580	--	--	--	18,020	19,070	19,840	--	--
831	--	--	--	17,480	--	--	--	16,960	17,950	20,880	--	--
831	--	--	--	17,480	--	--	--	16,960	17,950	20,880	--	--
987	--	--	--	20,760	--	--	--	20,140	21,320	22,090	--	--
935	--	--	--	19,670	--	--	--	19,080	20,190	23,330	--	--
935	--	--	--	19,670	--	--	--	19,080	20,190	23,330	--	--
987	--	--	--	20,760	--	--	--	20,140	21,320	24,550	--	--
987	--	--	--	20,760	--	--	--	20,140	21,320	24,550	--	--
1,039	--	--	--	21,850	--	--	--	21,200	22,440	25,790	--	--
1,039	--	--	--	21,850	--	--	--	21,200	22,440	25,790	--	--
1,143	--	--	--	24,040	--	--	--	23,320	24,680	27,090	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS C110	24,040
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS RYH110	24,040
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS RYS110	24,040
5 1/2	35.30	35.35	0.687	4.126	4.001	--	P110 SR16	24,040
5 1/2	35.30	35.35	0.687	4.126	4.001	--	P110	24,040
5 1/2	35.30	35.35	0.687	4.126	4.001	--	P110 HC	29,390
5 1/2	35.30	35.35	0.687	4.126	4.001	--	P110 HP	31,560
5 1/2	35.30	35.35	0.687	4.126	4.001	--	Q125	27,310
5 1/2	35.30	35.35	0.687	4.126	4.001	--	Q125 HC	31,700
5 1/2	35.30	35.35	0.687	4.126	4.001	--	Q125 HP	33,940
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS 140	30,590
5 1/2	35.30	35.35	0.687	4.126	4.001	--	USS V150	32,780
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS GT80S	18,850
5 1/2	38.00	38.08	0.750	4.000	3.875	--	L80	18,850
5 1/2	38.00	38.08	0.750	4.000	3.875	--	L80 HC	23,310
5 1/2	38.00	38.08	0.750	4.000	3.875	--	L80 HP	24,310
5 1/2	38.00	38.08	0.750	4.000	3.875	--	N80	18,850
5 1/2	38.00	38.08	0.750	4.000	3.875	--	N80 HC	24,640
5 1/2	38.00	38.08	0.750	4.000	3.875	--	N80 HP	26,790
5 1/2	38.00	38.08	0.750	4.000	3.875	--	C90	21,210
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS C90	21,210
5 1/2	38.00	38.08	0.750	4.000	3.875	--	T95	22,380
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS C95	22,380
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS C100	23,560
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS RYS100	23,560
5 1/2	38.00	38.08	0.750	4.000	3.875	--	C110	25,920
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS C110	25,920
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS RYH110	25,920
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS RYS110	25,920
5 1/2	38.00	38.08	0.750	4.000	3.875	--	P110 SR16	25,920
5 1/2	38.00	38.08	0.750	4.000	3.875	--	P110	25,920
5 1/2	38.00	38.08	0.750	4.000	3.875	--	P110 HC	32,540
5 1/2	38.00	38.08	0.750	4.000	3.875	--	P110 HP	34,930
5 1/2	38.00	38.08	0.750	4.000	3.875	--	Q125	29,450
5 1/2	38.00	38.08	0.750	4.000	3.875	--	Q125 HC	35,130
5 1/2	38.00	38.08	0.750	4.000	3.875	--	Q125 HP	37,610
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS 140	32,990
5 1/2	38.00	38.08	0.750	4.000	3.875	--	USS V150	35,340
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS GT80S	20,140
5 1/2	40.50	40.69	0.812	3.876	3.751	--	L80	20,140
5 1/2	40.50	40.69	0.812	3.876	3.751	--	L80 HC	25,480
5 1/2	40.50	40.69	0.812	3.876	3.751	--	L80 HP	26,560
5 1/2	40.50	40.69	0.812	3.876	3.751	--	N80	20,140
5 1/2	40.50	40.69	0.812	3.876	3.751	--	N80 HC	26,940
5 1/2	40.50	40.69	0.812	3.876	3.751	--	N80 HP	29,300

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,143	--	--	--	24,040	--	--	--	23,320	24,680	28,270	--	--
1,143	--	--	--	24,040	--	--	--	23,320	24,680	28,270	--	--
1,143	--	--	--	24,040	--	--	--	23,320	24,680	28,270	--	--
1,143	--	--	--	24,040	--	--	--	23,320	24,680	26,490	--	--
1,143	--	--	--	24,040	--	--	--	23,320	24,680	29,450	--	--
1,143	--	--	--	24,040	--	--	--	23,320	24,680	29,450	--	--
1,299	--	--	--	27,320	--	--	--	26,500	28,050	30,860	--	--
1,299	--	--	--	27,320	--	--	--	26,500	28,050	32,040	--	--
1,299	--	--	--	27,320	--	--	--	26,500	28,050	32,040	--	--
1,402	--	--	--	29,500	--	--	--	28,620	30,290	33,400	--	--
1,454	--	--	--	30,600	--	--	--	29,680	31,410	35,870	--	--
1,558	--	--	--	32,780	--	--	--	31,800	33,660	38,460	--	--
895	--	--	--	19,080	--	--	--	18,400	19,380	21,860	--	--
895	--	--	--	19,080	--	--	--	18,400	19,380	21,860	--	--
895	--	--	--	19,080	--	--	--	18,400	19,380	21,860	--	--
951	--	--	--	20,280	--	--	--	19,550	20,590	21,860	--	--
895	--	--	--	19,080	--	--	--	18,400	19,380	23,010	--	--
895	--	--	--	19,080	--	--	--	18,400	19,380	23,010	--	--
1,063	--	--	--	22,660	--	--	--	21,850	23,010	24,340	--	--
1,007	--	--	--	21,470	--	--	--	20,700	21,800	25,730	--	--
1,007	--	--	--	21,470	--	--	--	20,700	21,800	25,730	--	--
1,063	--	--	--	22,660	--	--	--	21,850	23,010	27,080	--	--
1,063	--	--	--	22,660	--	--	--	21,850	23,010	27,080	--	--
1,119	--	--	--	23,850	--	--	--	23,000	24,220	28,440	--	--
1,119	--	--	--	23,850	--	--	--	23,000	24,220	28,440	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	29,890	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	31,190	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	31,190	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	31,190	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	29,190	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	32,490	--	--
1,231	--	--	--	26,240	--	--	--	25,310	26,640	32,490	--	--
1,399	--	--	--	29,820	--	--	--	28,760	30,280	34,040	--	--
1,399	--	--	--	29,820	--	--	--	28,760	30,280	35,350	--	--
1,399	--	--	--	29,820	--	--	--	28,760	30,280	35,350	--	--
1,511	--	--	--	32,200	--	--	--	31,060	32,700	36,840	--	--
1,567	--	--	--	33,400	--	--	--	32,210	33,910	39,570	--	--
1,679	--	--	--	35,780	--	--	--	34,510	36,330	42,420	--	--
957	--	--	--	20,680	--	--	--	19,820	20,740	23,920	--	--
957	--	--	--	20,680	--	--	--	19,820	20,740	23,920	--	--
957	--	--	--	20,680	--	--	--	19,820	20,740	23,920	--	--
1,017	--	--	--	21,980	--	--	--	21,060	22,040	23,920	--	--
957	--	--	--	20,680	--	--	--	19,820	20,740	25,180	--	--
957	--	--	--	20,680	--	--	--	19,820	20,740	25,180	--	--
1,136	--	--	--	24,560	--	--	--	23,540	24,630	26,640	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
5 1/2	40.50	40.69	0.812	3.876	3.751	--	C90	22,660
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS C90	22,660
5 1/2	40.50	40.69	0.812	3.876	3.751	--	T95	23,920
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS C95	23,920
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS C100	25,180
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS RYS100	25,180
5 1/2	40.50	40.69	0.812	3.876	3.751	--	C110	27,700
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS C110	27,700
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS RYH110	27,700
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS RYS110	27,700
5 1/2	40.50	40.69	0.812	3.876	3.751	--	P110 SR16	27,700
5 1/2	40.50	40.69	0.812	3.876	3.751	--	P110	27,700
5 1/2	40.50	40.69	0.812	3.876	3.751	--	P110 HC	35,640
5 1/2	40.50	40.69	0.812	3.876	3.751	--	P110 HP	38,260
5 1/2	40.50	40.69	0.812	3.876	3.751	--	Q125	31,470
5 1/2	40.50	40.69	0.812	3.876	3.751	--	Q125 HC	38,510
5 1/2	40.50	40.69	0.812	3.876	3.751	--	Q125 HP	41,220
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS 140	35,250
5 1/2	40.50	40.69	0.812	3.876	3.751	--	USS V150	37,770
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS GT80S	21,390
5 1/2	43.10	43.26	0.875	3.750	3.625	--	L80	21,390
5 1/2	43.10	43.26	0.875	3.750	3.625	--	L80 HC	27,690
5 1/2	43.10	43.26	0.875	3.750	3.625	--	L80 HP	28,870
5 1/2	43.10	43.26	0.875	3.750	3.625	--	N80	21,390
5 1/2	43.10	43.26	0.875	3.750	3.625	--	N80 HC	29,290
5 1/2	43.10	43.26	0.875	3.750	3.625	--	N80 HP	31,850
5 1/2	43.10	43.26	0.875	3.750	3.625	--	C90	24,070
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS C90	24,070
5 1/2	43.10	43.26	0.875	3.750	3.625	--	T95	25,400
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS C95	25,400
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS C100	26,740
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS RYS100	26,740
5 1/2	43.10	43.26	0.875	3.750	3.625	--	C110	29,420
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS C110	29,420
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS RYH110	29,420
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS RYS110	29,420
5 1/2	43.10	43.26	0.875	3.750	3.625	--	P110 SR16	29,420
5 1/2	43.10	43.26	0.875	3.750	3.625	--	P110	29,420
5 1/2	43.10	43.26	0.875	3.750	3.625	--	P110 HC	38,800
5 1/2	43.10	43.26	0.875	3.750	3.625	--	P110 HP	41,650
5 1/2	43.10	43.26	0.875	3.750	3.625	--	Q125	33,430
5 1/2	43.10	43.26	0.875	3.750	3.625	--	Q125 HC	41,940
5 1/2	43.10	43.26	0.875	3.750	3.625	--	Q125 HP	44,890
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS 140	37,440
5 1/2	43.10	43.26	0.875	3.750	3.625	--	USS V150	40,110

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,076	--	--	--	23,270	--	--	--	22,300	23,340	28,190	--	--
1,076	--	--	--	23,270	--	--	--	22,300	23,340	28,190	--	--
1,136	--	--	--	24,560	--	--	--	23,540	24,630	29,670	--	--
1,136	--	--	--	24,560	--	--	--	23,540	24,630	29,670	--	--
1,196	--	--	--	25,850	--	--	--	24,780	25,930	31,160	--	--
1,196	--	--	--	25,850	--	--	--	24,780	25,930	31,160	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	32,740	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	34,170	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	34,170	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	34,170	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	31,950	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	35,590	--	--
1,315	--	--	--	28,440	--	--	--	27,250	28,520	35,590	--	--
1,495	--	--	--	32,320	--	--	--	30,970	32,410	37,290	--	--
1,495	--	--	--	32,320	--	--	--	30,970	32,410	38,730	--	--
1,495	--	--	--	32,320	--	--	--	30,970	32,410	38,730	--	--
1,614	--	--	--	34,900	--	--	--	33,450	35,010	40,360	--	--
1,674	--	--	--	36,200	--	--	--	34,690	36,300	43,350	--	--
1,794	--	--	--	38,780	--	--	--	37,170	38,900	46,480	--	--
1,017	--	--	--	22,280	--	--	--	21,210	22,100	26,020	--	--
1,017	--	--	--	22,280	--	--	--	21,210	22,100	26,020	--	--
1,017	--	--	--	22,280	--	--	--	21,210	22,100	26,020	--	--
1,081	--	--	--	23,680	--	--	--	22,540	23,480	26,020	--	--
1,017	--	--	--	22,280	--	--	--	21,210	22,100	27,390	--	--
1,017	--	--	--	22,280	--	--	--	21,210	22,100	27,390	--	--
1,208	--	--	--	26,460	--	--	--	25,190	26,240	28,980	--	--
1,144	--	--	--	25,070	--	--	--	23,860	24,860	30,700	--	--
1,144	--	--	--	25,070	--	--	--	23,860	24,860	30,700	--	--
1,208	--	--	--	26,460	--	--	--	25,190	26,240	32,310	--	--
1,208	--	--	--	26,460	--	--	--	25,190	26,240	32,310	--	--
1,271	--	--	--	27,850	--	--	--	26,510	27,620	33,940	--	--
1,271	--	--	--	27,850	--	--	--	26,510	27,620	33,940	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	35,660	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	37,210	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	37,210	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	37,210	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	34,760	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	38,760	--	--
1,399	--	--	--	30,640	--	--	--	29,160	30,390	38,760	--	--
1,589	--	--	--	34,820	--	--	--	33,140	34,530	40,610	--	--
1,589	--	--	--	34,820	--	--	--	33,140	34,530	42,170	--	--
1,589	--	--	--	34,820	--	--	--	33,140	34,530	42,170	--	--
1,716	--	--	--	37,600	--	--	--	35,790	37,290	43,960	--	--
1,780	--	--	--	39,000	--	--	--	37,120	38,670	47,210	--	--
1,907	--	--	--	41,780	--	--	--	39,770	41,430	50,610	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
6 5/8	20.00	19.51	0.288	6.049	5.924	--	H40	2,520
6 5/8	20.00	19.51	0.288	6.049	5.924	--	J55	2,970
6 5/8	20.00	19.51	0.288	6.049	5.924	--	K55	2,970
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS GT80S	3,480
6 5/8	20.00	19.51	0.288	6.049	5.924	--	L80	3,480
6 5/8	20.00	19.51	0.288	6.049	5.924	--	L80 HC	4,430
6 5/8	20.00	19.51	0.288	6.049	5.924	--	L80 HP	4,820
6 5/8	20.00	19.51	0.288	6.049	5.924	--	N80 Type 1	3,480
6 5/8	20.00	19.51	0.288	6.049	5.924	--	N80	3,480
6 5/8	20.00	19.51	0.288	6.049	5.924	--	N80 HC	4,520
6 5/8	20.00	19.51	0.288	6.049	5.924	--	N80 HP	4,920
6 5/8	20.00	19.51	0.288	6.049	5.924	--	C90	3,700
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS C90	3,700
6 5/8	20.00	19.51	0.288	6.049	5.924	--	R95	3,800
6 5/8	20.00	19.51	0.288	6.049	5.924	--	T95	3,800
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS C95	3,800
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS C100	3,880
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS RYS100	3,880
6 5/8	20.00	19.51	0.288	6.049	5.924	--	C110	4,030
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS C110	4,030
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS RYH110	4,030
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS RYS110	4,030
6 5/8	20.00	19.51	0.288	6.049	5.924	--	P110 SR16	4,030
6 5/8	20.00	19.51	0.288	6.049	5.924	--	P110	4,030
6 5/8	20.00	19.51	0.288	6.049	5.924	--	P110 HC	4,930
6 5/8	20.00	19.51	0.288	6.049	5.924	--	P110 HP	5,340
6 5/8	20.00	19.51	0.288	6.049	5.924	--	Q125	4,170
6 5/8	20.00	19.51	0.288	6.049	5.924	--	Q125 HC	5,020
6 5/8	20.00	19.51	0.288	6.049	5.924	--	Q125 HP	5,440
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS 140	4,220
6 5/8	20.00	19.51	0.288	6.049	5.924	--	USS V150	4,220
6 5/8	23.20	22.21	0.330	5.965	5.840	--	J55	4,010
6 5/8	23.20	22.21	0.330	5.965	5.840	--	K55	4,010
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS GT80S	4,940
6 5/8	23.20	22.21	0.330	5.965	5.840	--	L80	4,940
6 5/8	23.20	22.21	0.330	5.965	5.840	--	L80 HC	5,930
6 5/8	23.20	22.21	0.330	5.965	5.840	--	L80 HP	6,370
6 5/8	23.20	22.21	0.330	5.965	5.840	--	N80 Type 1	4,940
6 5/8	23.20	22.21	0.330	5.965	5.840	--	N80	4,940
6 5/8	23.20	22.21	0.330	5.965	5.840	--	N80 HC	6,110
6 5/8	23.20	22.21	0.330	5.965	5.840	--	N80 HP	6,640
6 5/8	23.20	22.21	0.330	5.965	5.840	--	C90	5,210
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS C90	5,210
6 5/8	23.20	22.21	0.330	5.965	5.840	--	R95	5,320
6 5/8	23.20	22.21	0.330	5.965	5.840	--	T95	5,320

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
229	184	--	--	3,040	3,040	--	--	3,030	3,370	3,320	7.390	--
315	245	266	374	4,180	4,180	4,180	4,180	4,170	4,640	4,180	7.390	7.000
315	267	290	453	4,180	4,180	4,180	4,180	4,170	4,640	5,290	7.390	7.000
459	--	--	--	6,090	--	--	--	6,060	6,740	6,470	--	--
459	--	--	--	6,090	--	--	--	6,060	6,740	6,470	--	--
459	--	--	--	6,090	--	--	--	6,060	6,740	6,470	--	--
487	--	--	--	6,470	--	--	--	6,440	7,170	6,470	--	--
459	--	--	--	6,090	--	--	--	6,060	6,740	5,640	--	--
459	--	--	--	6,090	--	--	--	6,060	6,740	6,810	--	--
459	--	--	--	6,090	--	--	--	6,060	6,740	6,810	--	--
545	--	--	--	7,230	--	--	--	7,200	8,010	7,200	--	--
516	--	--	--	6,850	--	--	--	6,820	7,590	7,550	--	--
516	--	--	--	6,850	--	--	--	6,820	7,590	7,550	--	--
545	--	--	--	7,230	--	--	--	7,200	8,010	7,200	--	--
545	--	--	--	7,230	--	--	--	7,200	8,010	7,950	--	--
545	--	--	--	7,230	--	--	--	7,200	8,010	7,950	--	--
573	--	--	--	7,610	--	--	--	7,580	8,430	8,350	--	--
573	--	--	--	7,610	--	--	--	7,580	8,430	8,350	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	8,770	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	9,160	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	9,160	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	9,160	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	8,640	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	9,540	--	--
631	--	--	--	8,370	--	--	--	8,340	9,270	9,540	--	--
717	--	--	--	9,510	--	--	--	9,470	10,540	9,990	--	--
717	--	--	--	9,510	--	--	--	9,470	10,540	10,380	--	--
717	--	--	--	9,510	--	--	--	9,470	10,540	10,380	--	--
774	--	--	--	10,270	--	--	--	10,230	11,380	10,820	--	--
803	--	--	--	10,650	--	--	--	10,610	11,800	11,620	--	--
860	--	--	--	11,410	--	--	--	11,370	12,650	12,450	--	--
359	--	--	--	4,800	--	--	--	4,780	5,280	4,820	--	--
359	--	--	--	4,800	--	--	--	4,780	5,280	6,100	--	--
522	--	--	--	6,980	--	--	--	6,950	7,680	7,460	--	--
522	--	--	--	6,980	--	--	--	6,950	7,680	7,460	--	--
522	--	--	--	6,980	--	--	--	6,950	7,680	7,460	--	--
555	--	--	--	7,420	--	--	--	7,380	8,160	7,460	--	--
522	--	--	--	6,980	--	--	--	6,950	7,680	6,500	--	--
522	--	--	--	6,980	--	--	--	6,950	7,680	7,850	--	--
522	--	--	--	6,980	--	--	--	6,950	7,680	7,850	--	--
620	--	--	--	8,290	--	--	--	8,250	9,120	8,300	--	--
587	--	--	--	7,850	--	--	--	7,810	8,640	8,710	--	--
587	--	--	--	7,850	--	--	--	7,810	8,640	8,710	--	--
620	--	--	--	8,290	--	--	--	8,250	9,120	8,300	--	--
620	--	--	--	8,290	--	--	--	8,250	9,120	9,170	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS C95	5,320
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS C100	5,410
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS RYS100	5,410
6 5/8	23.20	22.21	0.330	5.965	5.840	--	C110	5,560
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS C110	5,560
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS RYH110	5,560
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS RYS110	5,560
6 5/8	23.20	22.21	0.330	5.965	5.840	--	P110 SR16	5,560
6 5/8	23.20	22.21	0.330	5.965	5.840	--	P110	5,560
6 5/8	23.20	22.21	0.330	5.965	5.840	--	P110 HC	6,910
6 5/8	23.20	22.21	0.330	5.965	5.840	--	P110 HP	7,480
6 5/8	23.20	22.21	0.330	5.965	5.840	--	Q125	5,830
6 5/8	23.20	22.21	0.330	5.965	5.840	--	Q125 HC	7,100
6 5/8	23.20	22.21	0.330	5.965	5.840	--	Q125 HP	7,680
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS 140	6,120
6 5/8	23.20	22.21	0.330	5.965	5.840	--	USS V150	6,260
6 5/8	24.00	23.60	0.352	5.921	5.796	--	J55	4,560
6 5/8	24.00	23.60	0.352	5.921	5.796	--	K55	4,560
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS GT80S	5,760
6 5/8	24.00	23.60	0.352	5.921	5.796	--	L80	5,760
6 5/8	24.00	23.60	0.352	5.921	5.796	--	L80 HC	6,710
6 5/8	24.00	23.60	0.352	5.921	5.796	--	L80 HP	7,170
6 5/8	24.00	23.60	0.352	5.921	5.796	--	N80 Type 1	5,760
6 5/8	24.00	23.60	0.352	5.921	5.796	--	N80	5,760
6 5/8	24.00	23.60	0.352	5.921	5.796	--	N80 HC	6,940
6 5/8	24.00	23.60	0.352	5.921	5.796	--	N80 HP	7,540
6 5/8	24.00	23.60	0.352	5.921	5.796	--	C90	6,140
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS C90	6,140
6 5/8	24.00	23.60	0.352	5.921	5.796	--	R95	6,310
6 5/8	24.00	23.60	0.352	5.921	5.796	--	T95	6,310
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS C95	6,310
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS C100	6,460
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS RYS100	6,460
6 5/8	24.00	23.60	0.352	5.921	5.796	--	C110	6,730
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS C110	6,730
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS RYH110	6,730
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS RYS110	6,730
6 5/8	24.00	23.60	0.352	5.921	5.796	--	P110 SR16	6,730
6 5/8	24.00	23.60	0.352	5.921	5.796	--	P110	6,730
6 5/8	24.00	23.60	0.352	5.921	5.796	--	P110 HC	8,010
6 5/8	24.00	23.60	0.352	5.921	5.796	--	P110 HP	8,670
6 5/8	24.00	23.60	0.352	5.921	5.796	--	Q125	7,020
6 5/8	24.00	23.60	0.352	5.921	5.796	--	Q125 HC	8,270
6 5/8	24.00	23.60	0.352	5.921	5.796	--	Q125 HP	8,950
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS 140	7,190

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
620	--	--	--	8,290	--	--	--	8,250	9,120	9,170	--	--			
653	--	--	--	8,720	--	--	--	8,680	9,600	9,630	--	--			
653	--	--	--	8,720	--	--	--	8,680	9,600	9,630	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	10,120	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	10,560	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	10,560	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	10,560	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	9,960	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	11,000	--	--			
718	--	--	--	9,600	--	--	--	9,550	10,560	11,000	--	--			
816	--	--	--	10,910	--	--	--	10,850	12,010	11,520	--	--			
816	--	--	--	10,910	--	--	--	10,850	12,010	11,970	--	--			
816	--	--	--	10,910	--	--	--	10,850	12,010	11,970	--	--			
881	--	--	--	11,780	--	--	--	11,720	12,970	12,470	--	--			
914	--	--	--	12,210	--	--	--	12,160	13,450	13,400	--	--			
979	--	--	--	13,090	--	--	--	13,020	14,410	14,360	--	--			
382	314	340	453	5,110	5,110	5,110	5,110	5,090	5,620	5,140	7.390	7.000			
382	342	372	548	5,110	5,110	5,110	5,110	5,090	5,620	6,510	7.390	7.000			
555	--	473	592	7,440	--	7,440	7,440	7,400	8,170	7,970	7.390	7.000			
555	--	473	592	7,440	--	7,440	7,440	7,400	8,170	7,970	7.390	7.000			
555	--	473	592	7,440	--	7,440	7,440	7,400	8,170	7,970	7.390	7.000			
590	--	493	600	7,900	--	7,900	7,900	7,860	8,680	7,970	7.390	7.000			
555	--	481	615	7,440	--	7,440	7,440	7,400	8,170	6,940	7.390	7.000			
555	--	481	615	7,440	--	7,440	7,440	7,400	8,170	8,390	7.390	7.000			
555	--	481	615	7,440	--	7,440	7,440	7,400	8,170	8,390	7.390	7.000			
659	--	546	665	8,830	--	8,830	8,830	8,780	9,700	8,870	7.390	7.000			
624	--	520	633	8,370	--	8,370	8,370	8,320	9,190	9,310	7.390	7.000			
624	--	520	633	8,370	--	8,370	8,370	8,320	9,190	9,310	7.390	7.000			
659	--	546	665	8,830	--	8,830	8,830	8,780	9,700	8,870	7.390	7.000			
659	--	546	665	8,830	--	8,830	8,830	8,780	9,700	9,800	7.390	7.000			
659	--	546	665	8,830	--	8,830	8,830	8,780	9,700	9,800	7.390	7.000			
694	--	572	698	9,300	--	9,300	9,300	9,250	10,210	10,290	7.390	7.000			
694	--	572	698	9,300	--	9,300	9,300	9,250	10,210	10,290	7.390	7.000			
763	--	--	--	10,230	--	--	--	10,170	11,230	10,810	--	--			
763	--	--	--	10,230	--	--	--	10,170	11,230	11,280	--	--			
763	--	--	--	10,230	--	--	--	10,170	11,230	11,280	--	--			
763	--	--	--	10,230	--	--	--	10,170	11,230	11,280	--	--			
763	--	641	786	10,230	--	10,230	10,230	10,170	11,230	10,640	7.390	7.000			
763	--	641	786	10,230	--	10,230	10,230	10,170	11,230	11,750	7.390	7.000			
763	--	641	786	10,230	--	10,230	10,230	10,170	11,230	11,750	7.390	7.000			
867	--	676	836	11,620	--	11,620	11,620	11,560	12,770	12,320	7.390	7.000			
867	--	702	860	11,620	--	11,620	11,620	11,560	12,770	12,790	7.390	--			
867	--	702	860	11,620	--	11,620	11,620	11,560	12,770	12,790	7.390	--			
936	--	728	901	12,550	--	12,550	12,550	12,480	13,790	13,330	7.390	--			
971	--	779	958	13,020	--	13,020	13,020	12,950	14,300	14,320	7.390	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
6 5/8	24.00	23.60	0.352	5.921	5.796	--	USS V150	7,340
6 5/8	28.00	27.67	0.417	5.791	5.666	--	J55	6,170
6 5/8	28.00	27.67	0.417	5.791	5.666	--	K55	6,170
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS GT80S	8,170
6 5/8	28.00	27.67	0.417	5.791	5.666	--	L80	8,170
6 5/8	28.00	27.67	0.417	5.791	5.666	--	L80 HC	8,910
6 5/8	28.00	27.67	0.417	5.791	5.666	--	L80 HP	9,430
6 5/8	28.00	27.67	0.417	5.791	5.666	--	N80 Type 1	8,170
6 5/8	28.00	27.67	0.417	5.791	5.666	--	N80	8,170
6 5/8	28.00	27.67	0.417	5.791	5.666	--	N80 HC	9,300
6 5/8	28.00	27.67	0.417	5.791	5.666	--	N80 HP	10,110
6 5/8	28.00	27.67	0.417	5.791	5.666	--	C90	8,880
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS C90	8,880
6 5/8	28.00	27.67	0.417	5.791	5.666	--	R95	9,220
6 5/8	28.00	27.67	0.417	5.791	5.666	--	T95	9,220
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS C95	9,220
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS C100	9,540
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS RYS100	9,540
6 5/8	28.00	27.67	0.417	5.791	5.666	--	C110	10,160
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS C110	10,160
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS RYH110	10,160
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS RYS110	10,160
6 5/8	28.00	27.67	0.417	5.791	5.666	--	P110 SR16	10,160
6 5/8	28.00	27.67	0.417	5.791	5.666	--	P110	10,160
6 5/8	28.00	27.67	0.417	5.791	5.666	--	P110 HC	11,310
6 5/8	28.00	27.67	0.417	5.791	5.666	--	P110 HP	12,200
6 5/8	28.00	27.67	0.417	5.791	5.666	--	Q125	10,990
6 5/8	28.00	27.67	0.417	5.791	5.666	--	Q125 HC	11,860
6 5/8	28.00	27.67	0.417	5.791	5.666	--	Q125 HP	12,780
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS 140	11,710
6 5/8	28.00	27.67	0.417	5.791	5.666	--	USS V150	12,120
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS GT80S	8,720
6 5/8	28.60	28.60	0.432	5.761	5.636	--	L80	8,720
6 5/8	28.60	28.60	0.432	5.761	5.636	--	L80 HC	9,400
6 5/8	28.60	28.60	0.432	5.761	5.636	--	L80 HP	9,930
6 5/8	28.60	28.60	0.432	5.761	5.636	--	N80 Type 1	8,720
6 5/8	28.60	28.60	0.432	5.761	5.636	--	N80	8,720
6 5/8	28.60	28.60	0.432	5.761	5.636	--	N80 HC	9,830
6 5/8	28.60	28.60	0.432	5.761	5.636	--	N80 HP	10,680
6 5/8	28.60	28.60	0.432	5.761	5.636	--	C90	9,510
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS C90	9,510
6 5/8	28.60	28.60	0.432	5.761	5.636	--	R95	9,890
6 5/8	28.60	28.60	0.432	5.761	5.636	--	T95	9,890
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS C95	9,890
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS C100	10,250

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC		psi	in.	in.	
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,041	--	831	1,023	13,950	--	13,950	13,950	13,870	15,320	15,350	7.390	--
447	--	--	--	6,060	--	--	--	6,010	6,600	6,130	--	--
447	--	--	--	6,060	--	--	--	6,010	6,600	7,770	--	--
651	--	576	693	8,820	--	8,820	8,820	8,750	9,590	9,510	7.390	7.000
651	--	576	693	8,820	--	8,820	8,820	8,750	9,590	9,510	7.390	7.000
651	--	576	693	8,820	--	8,820	8,820	8,750	9,590	9,510	7.390	7.000
691	--	601	704	9,370	--	9,370	9,370	9,290	10,190	9,510	7.390	7.000
651	--	586	721	8,820	--	8,820	8,820	8,750	9,590	8,280	7.390	7.000
651	--	586	721	8,820	--	8,820	8,820	8,750	9,590	10,020	7.390	7.000
651	--	586	721	8,820	--	8,820	8,820	8,750	9,590	10,020	7.390	7.000
773	--	665	780	10,470	--	10,470	9,820	10,390	11,390	10,600	7.390	7.000
732	--	633	742	9,920	--	9,920	9,920	9,840	10,790	11,130	7.390	7.000
732	--	633	742	9,920	--	9,920	9,920	9,840	10,790	11,130	7.390	7.000
773	--	665	780	10,470	--	10,470	10,470	10,390	11,390	10,600	7.390	7.000
773	--	665	780	10,470	--	10,470	10,470	10,390	11,390	11,710	7.390	7.000
773	--	665	780	10,470	--	10,470	10,470	10,390	11,390	11,710	7.390	7.000
813	--	697	818	11,020	--	11,020	11,020	10,930	11,990	12,300	7.390	7.000
813	--	697	818	11,020	--	11,020	11,020	10,930	11,990	12,300	7.390	7.000
895	--	--	--	12,120	--	--	--	12,030	13,190	12,920	--	--
895	--	--	--	12,120	--	--	--	12,030	13,190	13,490	--	--
895	--	--	--	12,120	--	--	--	12,030	13,190	13,490	--	--
895	--	--	--	12,120	--	--	--	12,030	13,190	13,490	--	--
895	--	781	922	12,120	--	12,120	12,120	12,030	13,190	12,710	7.390	7.000
895	--	781	922	12,120	--	12,120	12,120	12,030	13,190	14,050	7.390	7.000
895	--	781	922	12,120	--	12,120	12,120	12,030	13,190	14,050	7.390	7.000
1,017	--	823	980	13,770	--	13,770	13,500	13,670	14,990	14,720	7.390	7.000
1,017	--	855	1,008	13,770	--	13,770	13,770	13,670	14,990	15,290	7.390	--
1,017	--	855	1,008	13,770	--	13,770	13,770	13,670	14,990	15,290	7.390	--
1,098	--	887	1,057	14,880	--	14,880	14,880	14,760	16,190	15,930	7.390	--
1,139	--	950	1,123	15,430	--	15,430	15,430	15,310	16,790	17,110	7.390	--
1,220	--	1,013	1,199	16,530	--	16,530	16,530	16,400	17,990	18,350	7.390	--
672	--	--	--	9,130	--	--	--	9,050	9,920	9,870	--	--
672	--	--	--	9,130	--	--	--	9,050	9,920	9,870	--	--
672	--	--	--	9,130	--	--	--	9,050	9,920	9,870	--	--
714	--	--	--	9,700	--	--	--	9,620	10,540	9,870	--	--
672	--	--	--	9,130	--	--	--	9,050	9,920	8,580	--	--
672	--	--	--	9,130	--	--	--	9,050	9,920	10,390	--	--
672	--	--	--	9,130	--	--	--	9,050	9,920	10,390	--	--
798	--	--	--	10,840	--	--	--	10,750	11,780	10,990	--	--
756	--	--	--	10,270	--	--	--	10,190	11,160	11,550	--	--
756	--	--	--	10,270	--	--	--	10,190	11,160	11,550	--	--
798	--	--	--	10,840	--	--	--	10,750	11,780	10,990	--	--
798	--	--	--	10,840	--	--	--	10,750	11,780	12,150	--	--
798	--	--	--	10,840	--	--	--	10,750	11,780	12,150	--	--
841	--	--	--	11,410	--	--	--	11,320	12,400	12,760	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS RYS100	10,250
6 5/8	28.60	28.60	0.432	5.761	5.636	--	C110	10,950
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS C110	10,950
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS RYH110	10,950
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS RYS110	10,950
6 5/8	28.60	28.60	0.432	5.761	5.636	--	P110 SR16	10,950
6 5/8	28.60	28.60	0.432	5.761	5.636	--	P110	10,950
6 5/8	28.60	28.60	0.432	5.761	5.636	--	P110 HC	12,060
6 5/8	28.60	28.60	0.432	5.761	5.636	--	P110 HP	13,000
6 5/8	28.60	28.60	0.432	5.761	5.636	--	Q125	11,900
6 5/8	28.60	28.60	0.432	5.761	5.636	--	Q125 HC	12,680
6 5/8	28.60	28.60	0.432	5.761	5.636	--	Q125 HP	13,650
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS 140	12,750
6 5/8	28.60	28.60	0.432	5.761	5.636	--	USS V150	13,250
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS GT80S	10,320
6 5/8	32.00	31.23	0.475	5.675	5.550	--	L80	10,320
6 5/8	32.00	31.23	0.475	5.675	5.550	--	L80 HC	10,760
6 5/8	32.00	31.23	0.475	5.675	5.550	--	L80 HP	11,320
6 5/8	32.00	31.23	0.475	5.675	5.550	--	N80 Type 1	10,320
6 5/8	32.00	31.23	0.475	5.675	5.550	--	N80	10,320
6 5/8	32.00	31.23	0.475	5.675	5.550	--	N80 HC	11,280
6 5/8	32.00	31.23	0.475	5.675	5.550	--	N80 HP	12,270
6 5/8	32.00	31.23	0.475	5.675	5.550	--	C90	11,330
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS C90	11,330
6 5/8	32.00	31.23	0.475	5.675	5.550	--	R95	11,810
6 5/8	32.00	31.23	0.475	5.675	5.550	--	T95	11,810
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS C95	11,810
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS C100	12,290
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS RYS100	12,290
6 5/8	32.00	31.23	0.475	5.675	5.550	--	C110	13,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS C110	13,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS RYH110	13,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS RYS110	13,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	P110 SR16	13,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	P110	13,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	P110 HC	14,140
6 5/8	32.00	31.23	0.475	5.675	5.550	--	P110 HP	15,220
6 5/8	32.00	31.23	0.475	5.675	5.550	--	Q125	14,530
6 5/8	32.00	31.23	0.475	5.675	5.550	--	Q125 HC	14,980
6 5/8	32.00	31.23	0.475	5.675	5.550	--	Q125 HP	16,100
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS 140	15,750
6 5/8	32.00	31.23	0.475	5.675	5.550	--	USS V150	16,500
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS GT80S	11,160
6 5/8	33.00	32.74	0.500	5.625	5.500	--	L80	11,160
6 5/8	33.00	32.74	0.500	5.625	5.500	--	L80 HC	11,530

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
841	--	--	--	11,410	--	--	--	11,320	12,400	12,760	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	13,410	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	13,990	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	13,990	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	13,990	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	13,180	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	14,580	--	--			
925	--	--	--	12,550	--	--	--	12,450	13,640	14,580	--	--			
1,051	--	--	--	14,260	--	--	--	14,150	15,500	15,270	--	--			
1,051	--	--	--	14,260	--	--	--	14,150	15,500	15,860	--	--			
1,051	--	--	--	14,260	--	--	--	14,150	15,500	15,860	--	--			
1,135	--	--	--	15,410	--	--	--	15,280	16,740	16,530	--	--			
1,177	--	--	--	15,980	--	--	--	15,840	17,350	17,760	--	--			
1,261	--	--	--	17,120	--	--	--	16,980	18,590	19,040	--	--			
734	--	666	783	10,050	--	10,050	9,820	9,950	10,840	10,920	7.390	7.000			
734	--	666	783	10,050	--	10,050	9,820	9,950	10,840	10,920	7.390	7.000			
734	--	666	783	10,050	--	10,050	9,820	9,950	10,840	10,920	7.390	7.000			
780	--	695	794	10,670	--	10,670	9,820	10,570	11,520	10,920	7.390	7.000			
734	--	677	814	10,050	--	10,050	9,820	9,950	10,840	9,490	7.390	7.000			
734	--	677	814	10,050	--	10,050	9,820	9,950	10,840	11,500	7.390	7.000			
734	--	677	814	10,050	--	10,050	9,820	9,950	10,840	11,500	7.390	7.000			
872	--	769	880	11,930	--	10,670	9,820	11,810	12,870	12,160	7.390	7.000			
826	--	732	837	11,300	--	11,300	11,050	11,190	12,190	12,780	7.390	7.000			
826	--	732	837	11,300	--	11,300	11,050	11,190	12,190	12,780	7.390	7.000			
872	--	769	880	11,930	--	11,930	11,660	11,810	12,870	12,160	7.390	7.000			
872	--	769	880	11,930	--	11,930	11,660	11,810	12,870	13,450	7.390	7.000			
872	--	769	880	11,930	--	11,930	11,660	11,810	12,870	13,450	7.390	7.000			
918	--	806	923	12,560	--	12,560	12,270	12,430	13,550	14,130	7.390	7.000			
918	--	806	923	12,560	--	12,560	12,270	12,430	13,550	14,130	7.390	7.000			
1,009	--	--	--	13,810	--	--	--	13,680	14,900	14,840	--	--			
1,009	--	--	--	13,810	--	--	--	13,680	14,900	15,490	--	--			
1,009	--	--	--	13,810	--	--	--	13,680	14,900	15,490	--	--			
1,009	--	--	--	13,810	--	--	--	13,680	14,900	15,490	--	--			
1,009	--	904	1,040	13,810	--	13,810	13,500	13,680	14,900	14,590	7.390	7.000			
1,009	--	904	1,040	13,810	--	13,810	13,500	13,680	14,900	16,140	7.390	7.000			
1,009	--	904	1,040	13,810	--	13,810	13,500	13,680	14,900	16,140	7.390	7.000			
1,147	--	952	1,106	15,700	--	14,680	13,500	15,540	16,940	16,910	7.390	7.000			
1,147	--	989	1,138	15,700	--	15,700	15,340	15,540	16,940	17,560	7.390	--			
1,147	--	989	1,138	15,700	--	15,700	15,340	15,540	16,940	17,560	7.390	--			
1,239	--	1,025	1,192	16,950	--	16,680	15,340	16,780	18,290	18,300	7.390	--			
1,285	--	1,099	1,267	17,580	--	17,580	17,180	17,410	18,970	19,660	7.390	--			
1,377	--	1,172	1,353	18,840	--	18,840	18,410	18,650	20,320	21,070	7.390	--			
770	--	--	--	10,580	--	--	--	10,460	11,370	11,530	--	--			
770	--	--	--	10,580	--	--	--	10,460	11,370	11,530	--	--			
770	--	--	--	10,580	--	--	--	10,460	11,370	11,530	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
6 5/8	33.00	32.74	0.500	5.625	5.500	--	L80 HP	12,110
6 5/8	33.00	32.74	0.500	5.625	5.500	--	N80 Type 1	11,160
6 5/8	33.00	32.74	0.500	5.625	5.500	--	N80	11,160
6 5/8	33.00	32.74	0.500	5.625	5.500	--	N80 HC	12,110
6 5/8	33.00	32.74	0.500	5.625	5.500	--	N80 HP	13,160
6 5/8	33.00	32.74	0.500	5.625	5.500	--	C90	12,380
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS C90	12,380
6 5/8	33.00	32.74	0.500	5.625	5.500	--	R95	12,940
6 5/8	33.00	32.74	0.500	5.625	5.500	--	T95	12,940
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS C95	12,940
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS C100	13,480
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS RYS100	13,480
6 5/8	33.00	32.74	0.500	5.625	5.500	--	C110	14,540
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS C110	14,540
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS RYS110	14,540
6 5/8	33.00	32.74	0.500	5.625	5.500	--	P110 SR16	14,540
6 5/8	33.00	32.74	0.500	5.625	5.500	--	P110	14,540
6 5/8	33.00	32.74	0.500	5.625	5.500	--	P110 HC	15,310
6 5/8	33.00	32.74	0.500	5.625	5.500	--	P110 HP	16,480
6 5/8	33.00	32.74	0.500	5.625	5.500	--	Q125	16,070
6 5/8	33.00	32.74	0.500	5.625	5.500	--	Q125 HC	16,270
6 5/8	33.00	32.74	0.500	5.625	5.500	--	Q125 HP	17,480
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS 140	17,500
6 5/8	33.00	32.74	0.500	5.625	5.500	--	USS V150	18,390
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS GT80S	11,670
6 5/8	34.50	34.23	0.525	5.575	5.450	--	L80	11,670
6 5/8	34.50	34.23	0.525	5.575	5.450	--	L80 HC	12,290
6 5/8	34.50	34.23	0.525	5.575	5.450	--	L80 HP	12,890
6 5/8	34.50	34.23	0.525	5.575	5.450	--	N80	11,670
6 5/8	34.50	34.23	0.525	5.575	5.450	--	N80 HC	12,920
6 5/8	34.50	34.23	0.525	5.575	5.450	--	N80 HP	14,050
6 5/8	34.50	34.23	0.525	5.575	5.450	--	C90	13,130
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS C90	13,130
6 5/8	34.50	34.23	0.525	5.575	5.450	--	R95	13,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	T95	13,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS C95	13,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS C100	14,590
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS RYS100	14,590
6 5/8	34.50	34.23	0.525	5.575	5.450	--	C110	15,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS C110	15,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS RYS110	15,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	P110 SR16	15,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	P110	15,860
6 5/8	34.50	34.23	0.525	5.575	5.450	--	P110 HC	16,460
6 5/8	34.50	34.23	0.525	5.575	5.450	--	P110 HP	17,710

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
818	--	--	--	11,240	--	--	--	11,110	12,080	11,530	--	--
770	--	--	--	10,580	--	--	--	10,460	11,370	10,020	--	--
770	--	--	--	10,580	--	--	--	10,460	11,370	12,140	--	--
770	--	--	--	10,580	--	--	--	10,460	11,370	12,140	--	--
914	--	--	--	12,560	--	--	--	12,420	13,500	12,840	--	--
866	--	--	--	11,900	--	--	--	11,770	12,790	13,500	--	--
866	--	--	--	11,900	--	--	--	11,770	12,790	13,500	--	--
914	--	--	--	12,560	--	--	--	12,420	13,500	12,840	--	--
914	--	--	--	12,560	--	--	--	12,420	13,500	14,210	--	--
914	--	--	--	12,560	--	--	--	12,420	13,500	14,210	--	--
962	--	--	--	13,220	--	--	--	13,080	14,210	14,930	--	--
962	--	--	--	13,220	--	--	--	13,080	14,210	14,930	--	--
1,058	--	--	--	14,540	--	--	--	14,380	15,630	15,680	--	--
1,058	--	--	--	14,540	--	--	--	14,380	15,630	16,360	--	--
1,058	--	--	--	14,540	--	--	--	14,380	15,630	16,360	--	--
1,058	--	--	--	14,540	--	--	--	14,380	15,630	15,410	--	--
1,058	--	--	--	14,540	--	--	--	14,380	15,630	17,050	--	--
1,058	--	--	--	14,540	--	--	--	14,380	15,630	17,050	--	--
1,203	--	--	--	16,530	--	--	--	16,350	17,760	17,860	--	--
1,203	--	--	--	16,530	--	--	--	16,350	17,760	18,550	--	--
1,203	--	--	--	16,530	--	--	--	16,350	17,760	18,550	--	--
1,299	--	--	--	17,850	--	--	--	17,650	19,190	19,330	--	--
1,347	--	--	--	18,510	--	--	--	18,310	19,900	20,760	--	--
1,443	--	--	--	19,830	--	--	--	19,610	21,320	22,260	--	--
805	--	--	--	11,090	--	--	--	10,950	11,900	12,120	--	--
805	--	--	--	11,090	--	--	--	10,950	11,900	12,120	--	--
805	--	--	--	11,090	--	--	--	10,950	11,900	12,120	--	--
855	--	--	--	11,780	--	--	--	11,640	12,640	12,120	--	--
805	--	--	--	11,090	--	--	--	10,950	11,900	12,760	--	--
805	--	--	--	11,090	--	--	--	10,950	11,900	12,760	--	--
956	--	--	--	13,160	--	--	--	13,000	14,130	13,490	--	--
905	--	--	--	12,470	--	--	--	12,320	13,380	14,190	--	--
905	--	--	--	12,470	--	--	--	12,320	13,380	14,190	--	--
956	--	--	--	13,160	--	--	--	13,000	14,130	13,490	--	--
956	--	--	--	13,160	--	--	--	13,000	14,130	14,940	--	--
956	--	--	--	13,160	--	--	--	13,000	14,130	14,940	--	--
1,006	--	--	--	13,860	--	--	--	13,690	14,870	15,690	--	--
1,006	--	--	--	13,860	--	--	--	13,690	14,870	15,690	--	--
1,107	--	--	--	15,240	--	--	--	15,060	16,360	16,480	--	--
1,107	--	--	--	15,240	--	--	--	15,060	16,360	17,200	--	--
1,107	--	--	--	15,240	--	--	--	15,060	16,360	17,200	--	--
1,107	--	--	--	15,240	--	--	--	15,060	16,360	16,180	--	--
1,107	--	--	--	15,240	--	--	--	15,060	16,360	17,920	--	--
1,107	--	--	--	15,240	--	--	--	15,060	16,360	17,920	--	--
1,258	--	--	--	17,320	--	--	--	17,110	18,590	18,780	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
6 5/8	34.50	34.23	0.525	5.575	5.450	--	Q125	17,590
6 5/8	34.50	34.23	0.525	5.575	5.450	--	Q125 HC	17,540
6 5/8	34.50	34.23	0.525	5.575	5.450	--	Q125 HP	18,830
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS 140	19,240
6 5/8	34.50	34.23	0.525	5.575	5.450	--	USS V150	20,280
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS GT80S	12,420
6 5/8	36.70	36.43	0.562	5.501	5.376	--	L80	12,420
6 5/8	36.70	36.43	0.562	5.501	5.376	--	L80 HC	13,400
6 5/8	36.70	36.43	0.562	5.501	5.376	--	L80 HP	14,030
6 5/8	36.70	36.43	0.562	5.501	5.376	--	N80	12,420
6 5/8	36.70	36.43	0.562	5.501	5.376	--	N80 HC	14,100
6 5/8	36.70	36.43	0.562	5.501	5.376	--	N80 HP	15,330
6 5/8	36.70	36.43	0.562	5.501	5.376	--	C90	13,970
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS C90	13,970
6 5/8	36.70	36.43	0.562	5.501	5.376	--	R95	14,750
6 5/8	36.70	36.43	0.562	5.501	5.376	--	T95	14,750
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS C95	14,750
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS C100	15,520
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS RYS100	15,520
6 5/8	36.70	36.43	0.562	5.501	5.376	--	C110	17,080
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS C110	17,080
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS RYS110	17,080
6 5/8	36.70	36.43	0.562	5.501	5.376	--	P110 SR16	17,080
6 5/8	36.70	36.43	0.562	5.501	5.376	--	P110	17,080
6 5/8	36.70	36.43	0.562	5.501	5.376	--	P110 HC	18,120
6 5/8	36.70	36.43	0.562	5.501	5.376	--	P110 HP	19,480
6 5/8	36.70	36.43	0.562	5.501	5.376	--	Q125	19,410
6 5/8	36.70	36.43	0.562	5.501	5.376	--	Q125 HC	19,370
6 5/8	36.70	36.43	0.562	5.501	5.376	--	Q125 HP	20,780
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS 140	21,730
6 5/8	36.70	36.43	0.562	5.501	5.376	--	USS V150	23,070
7	17.00	16.72	0.231	6.538	6.413	--	H40	1,420
7	20.00	19.56	0.272	6.456	6.331	--	H40	1,970
7	20.00	19.56	0.272	6.456	6.331	--	J55	2,270
7	20.00	19.56	0.272	6.456	6.331	--	K55	2,270
7	20.00	19.56	0.272	6.456	6.331	--	USS GT80S	2,740
7	20.00	19.56	0.272	6.456	6.331	--	L80	2,740
7	20.00	19.56	0.272	6.456	6.331	--	L80 HC	3,380
7	20.00	19.56	0.272	6.456	6.331	--	L80 HP	3,710
7	20.00	19.56	0.272	6.456	6.331	--	N80 Type 1	2,740
7	20.00	19.56	0.272	6.456	6.331	--	N80	2,740
7	20.00	19.56	0.272	6.456	6.331	--	N80 HC	3,440
7	20.00	19.56	0.272	6.456	6.331	--	N80 HP	3,740
7	20.00	19.56	0.272	6.456	6.331	--	C90	2,860
7	20.00	19.56	0.272	6.456	6.331	--	USS C90	2,860

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter					
				Pipe Body	API Historical			Lame' - Von Mises			Regular Coupling	Special Clr Coupling				
Joint Strength, 1,000 lbs					Threaded & Coupled			Open End	Capped End							
Yield	Threaded and Coupled				STC	LTC	BTC									
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.				
1,258	--	--	--	17,320	--	--	--	17,110	18,590	19,500	--	--				
1,258	--	--	--	17,320	--	--	--	17,110	18,590	19,500	--	--				
1,358	--	--	--	18,710	--	--	--	18,480	20,070	20,320	--	--				
1,409	--	--	--	19,400	--	--	--	19,160	20,820	21,830	--	--				
1,509	--	--	--	20,780	--	--	--	20,530	22,300	23,400	--	--				
856	--	--	--	11,880	--	--	--	11,720	12,670	13,050	--	--				
856	--	--	--	11,880	--	--	--	11,720	12,670	13,050	--	--				
856	--	--	--	11,880	--	--	--	11,720	12,670	13,050	--	--				
910	--	--	--	12,620	--	--	--	12,450	13,460	13,050	--	--				
856	--	--	--	11,880	--	--	--	11,720	12,670	13,740	--	--				
856	--	--	--	11,880	--	--	--	11,720	12,670	13,740	--	--				
1,017	--	--	--	14,110	--	--	--	13,910	15,040	14,530	--	--				
963	--	--	--	13,370	--	--	--	13,180	14,250	15,290	--	--				
963	--	--	--	13,370	--	--	--	13,180	14,250	15,290	--	--				
1,017	--	--	--	14,110	--	--	--	13,910	15,040	14,530	--	--				
1,017	--	--	--	14,110	--	--	--	13,910	15,040	16,100	--	--				
1,017	--	--	--	14,110	--	--	--	13,910	15,040	16,100	--	--				
1,071	--	--	--	14,850	--	--	--	14,650	15,830	16,900	--	--				
1,071	--	--	--	14,850	--	--	--	14,650	15,830	16,900	--	--				
1,178	--	--	--	16,340	--	--	--	16,110	17,420	17,760	--	--				
1,178	--	--	--	16,340	--	--	--	16,110	17,420	18,530	--	--				
1,178	--	--	--	16,340	--	--	--	16,110	17,420	18,530	--	--				
1,178	--	--	--	16,340	--	--	--	16,110	17,420	17,430	--	--				
1,178	--	--	--	16,340	--	--	--	16,110	17,420	19,310	--	--				
1,178	--	--	--	16,340	--	--	--	16,110	17,420	19,310	--	--				
1,338	--	--	--	18,570	--	--	--	18,310	19,790	20,230	--	--				
1,338	--	--	--	18,570	--	--	--	18,310	19,790	21,010	--	--				
1,338	--	--	--	18,570	--	--	--	18,310	19,790	21,010	--	--				
1,445	--	--	--	20,050	--	--	--	19,770	21,380	21,890	--	--				
1,499	--	--	--	20,790	--	--	--	20,500	22,170	23,520	--	--				
1,606	--	--	--	22,280	--	--	--	21,970	23,750	25,210	--	--				
196	122	--	--	2,310	2,310	--	--	2,300	2,580	2,500	7.875	--				
230	176	--	--	2,720	2,720	--	--	2,710	3,030	2,960	7.875	--				
316	234	--	--	3,740	3,740	--	--	3,730	4,160	3,730	7.875	--				
316	254	--	--	3,740	3,740	--	--	3,730	4,160	4,720	7.875	--				
460	--	--	--	5,440	--	--	--	5,420	6,050	5,760	--	--				
460	--	--	--	5,440	--	--	--	5,420	6,050	5,760	--	--				
460	--	--	--	5,440	--	--	--	5,420	6,050	5,760	--	--				
489	--	--	--	5,780	--	--	--	5,760	6,430	5,760	--	--				
460	--	--	--	5,440	--	--	--	5,420	6,050	5,030	--	--				
460	--	--	--	5,440	--	--	--	5,420	6,050	6,070	--	--				
460	--	--	--	5,440	--	--	--	5,420	6,050	6,070	--	--				
546	--	--	--	6,460	--	--	--	6,440	7,190	6,420	--	--				
517	--	--	--	6,120	--	--	--	6,100	6,810	6,730	--	--				
517	--	--	--	6,120	--	--	--	6,100	6,810	6,730	--	--				

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	20.00	19.56	0.272	6.456	6.331	--	R95	2,900
7	20.00	19.56	0.272	6.456	6.331	--	T95	2,900
7	20.00	19.56	0.272	6.456	6.331	--	USS C95	2,900
7	20.00	19.56	0.272	6.456	6.331	--	USS C100	2,940
7	20.00	19.56	0.272	6.456	6.331	--	USS RYS100	2,940
7	20.00	19.56	0.272	6.456	6.331	--	C110	2,980
7	20.00	19.56	0.272	6.456	6.331	--	USS C110	2,980
7	20.00	19.56	0.272	6.456	6.331	--	USS RYH110	2,980
7	20.00	19.56	0.272	6.456	6.331	--	USS RYS110	2,980
7	20.00	19.56	0.272	6.456	6.331	--	P110 SR16	2,980
7	20.00	19.56	0.272	6.456	6.331	--	P110	2,980
7	20.00	19.56	0.272	6.456	6.331	--	P110 HC	3,650
7	20.00	19.56	0.272	6.456	6.331	--	P110 HP	3,970
7	20.00	19.56	0.272	6.456	6.331	--	Q125	2,980
7	20.00	19.56	0.272	6.456	6.331	--	Q125 HC	3,700
7	20.00	19.56	0.272	6.456	6.331	--	Q125 HP	4,020
7	20.00	19.56	0.272	6.456	6.331	--	USS 140	2,980
7	20.00	19.56	0.272	6.456	6.331	--	USS V150	2,980
7	23.00	22.65	0.317	6.366	6.241	6.250	J55	3,270
7	23.00	22.65	0.317	6.366	6.241	6.250	K55	3,270
7	23.00	22.65	0.317	6.366	6.241	6.250	USS GT80S	3,830
7	23.00	22.65	0.317	6.366	6.241	6.250	L80	3,830
7	23.00	22.65	0.317	6.366	6.241	6.250	L80 HC	4,850
7	23.00	22.65	0.317	6.366	6.241	6.250	L80 HP	5,260
7	23.00	22.65	0.317	6.366	6.241	6.250	N80 Type 1	3,830
7	23.00	22.65	0.317	6.366	6.241	6.250	N80	3,830
7	23.00	22.65	0.317	6.366	6.241	6.250	N80 HC	4,970
7	23.00	22.65	0.317	6.366	6.241	6.250	N80 HP	5,410
7	23.00	22.65	0.317	6.366	6.241	6.250	C90	4,030
7	23.00	22.65	0.317	6.366	6.241	6.250	USS C90	4,030
7	23.00	22.65	0.317	6.366	6.241	6.250	R95	4,140
7	23.00	22.65	0.317	6.366	6.241	6.250	T95	4,140
7	23.00	22.65	0.317	6.366	6.241	6.250	USS C95	4,140
7	23.00	22.65	0.317	6.366	6.241	6.250	USS C100	4,250
7	23.00	22.65	0.317	6.366	6.241	6.250	USS RYS100	4,250
7	23.00	22.65	0.317	6.366	6.241	6.250	C110	4,440
7	23.00	22.65	0.317	6.366	6.241	6.250	USS C110	4,440
7	23.00	22.65	0.317	6.366	6.241	6.250	USS RYH110	4,440
7	23.00	22.65	0.317	6.366	6.241	6.250	USS RYS110	4,440
7	23.00	22.65	0.317	6.366	6.241	6.250	P110 SR16	4,440
7	23.00	22.65	0.317	6.366	6.241	6.250	P110	4,440
7	23.00	22.65	0.317	6.366	6.241	6.250	P110 HC	5,470
7	23.00	22.65	0.317	6.366	6.241	6.250	P110 HP	5,930
7	23.00	22.65	0.317	6.366	6.241	6.250	Q125	4,650
7	23.00	22.65	0.317	6.366	6.241	6.250	Q125 HC	5,580

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
546	--	--	--	6,460	--	--	--	6,440	7,190	6,420	--	--			
546	--	--	--	6,460	--	--	--	6,440	7,190	7,080	--	--			
546	--	--	--	6,460	--	--	--	6,440	7,190	7,080	--	--			
575	--	--	--	6,800	--	--	--	6,780	7,570	7,440	--	--			
575	--	--	--	6,800	--	--	--	6,780	7,570	7,440	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	7,810	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	8,150	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	8,150	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	8,150	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	7,700	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	8,490	--	--			
632	--	--	--	7,480	--	--	--	7,460	8,320	8,490	--	--			
719	--	--	--	8,500	--	--	--	8,480	9,460	8,900	--	--			
719	--	--	--	8,500	--	--	--	8,480	9,460	9,240	--	--			
719	--	--	--	8,500	--	--	--	8,480	9,460	9,240	--	--			
776	--	--	--	9,180	--	--	--	9,150	10,220	9,630	--	--			
805	--	--	--	9,520	--	--	--	9,490	10,590	10,340	--	--			
862	--	--	--	10,200	--	--	--	10,170	11,350	11,090	--	--			
366	284	313	432	4,350	4,350	4,350	4,350	4,340	4,820	4,350	7.875	7.375			
366	309	341	522	4,350	4,350	4,350	4,350	4,340	4,820	5,510	7.875	7.375			
532	--	435	565	6,330	--	6,330	6,330	6,310	7,010	6,740	7.875	7.375			
532	--	435	565	6,330	--	6,330	6,330	6,310	7,010	6,740	7.875	7.375			
532	--	435	565	6,330	--	6,330	6,330	6,310	7,010	6,740	7.875	7.375			
566	--	453	574	6,730	--	6,730	6,730	6,700	7,450	6,740	7.875	7.375			
532	--	442	588	6,330	--	6,330	6,330	6,310	7,010	5,870	7.875	7.375			
532	--	442	588	6,330	--	6,330	6,330	6,310	7,010	7,090	7.875	7.375			
532	--	442	588	6,330	--	6,330	6,330	6,310	7,010	7,090	7.875	7.375			
632	--	505	636	7,520	--	7,520	7,520	7,490	8,330	7,500	7.875	7.375			
599	--	479	605	7,120	--	7,120	7,120	7,090	7,890	7,870	7.875	7.375			
599	--	479	605	7,120	--	7,120	7,120	7,090	7,890	7,870	7.875	7.375			
632	--	505	636	7,520	--	7,520	7,520	7,490	8,330	7,500	7.875	7.375			
632	--	505	636	7,520	--	7,520	7,520	7,490	8,330	8,280	7.875	7.375			
632	--	505	636	7,520	--	7,520	7,520	7,490	8,330	8,280	7.875	7.375			
666	--	531	668	7,910	--	7,910	7,910	7,880	8,770	8,700	7.875	7.375			
666	--	531	668	7,910	--	7,910	7,910	7,880	8,770	8,700	7.875	7.375			
732	--	--	--	8,710	--	--	--	8,670	9,640	9,140	--	--			
732	--	--	--	8,710	--	--	--	8,670	9,640	9,540	--	--			
732	--	--	--	8,710	--	--	--	8,670	9,640	9,540	--	--			
732	--	--	--	8,710	--	--	--	8,670	9,640	9,540	--	--			
732	--	590	752	8,710	--	8,710	8,710	8,670	9,640	9,000	7.875	7.375			
732	--	590	752	8,710	--	8,710	8,710	8,670	9,640	9,940	7.875	7.375			
732	--	590	752	8,710	--	8,710	8,710	8,670	9,640	9,940	7.875	7.375			
832	--	630	801	9,890	--	9,890	9,890	9,850	10,960	10,410	7.875	7.375			
832	--	655	823	9,890	--	9,890	9,890	9,850	10,960	10,810	7.875	--			
832	--	655	823	9,890	--	9,890	9,890	9,850	10,960	10,810	7.875	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	23.00	22.65	0.317	6.366	6.241	6.250	Q125 HP	6,050
7	23.00	22.65	0.317	6.366	6.241	6.250	USS 140	4,760
7	23.00	22.65	0.317	6.366	6.241	6.250	USS V150	4,790
7	26.00	25.69	0.362	6.276	6.151	--	J55	4,320
7	26.00	25.69	0.362	6.276	6.151	--	K55	4,320
7	26.00	25.69	0.362	6.276	6.151	--	USS GT80S	5,410
7	26.00	25.69	0.362	6.276	6.151	--	L80	5,410
7	26.00	25.69	0.362	6.276	6.151	--	L80 HC	6,370
7	26.00	25.69	0.362	6.276	6.151	--	L80 HP	6,830
7	26.00	25.69	0.362	6.276	6.151	--	N80 Type 1	5,410
7	26.00	25.69	0.362	6.276	6.151	--	N80	5,410
7	26.00	25.69	0.362	6.276	6.151	--	N80 HC	6,580
7	26.00	25.69	0.362	6.276	6.151	--	N80 HP	7,160
7	26.00	25.69	0.362	6.276	6.151	--	C90	5,740
7	26.00	25.69	0.362	6.276	6.151	--	USS C90	5,740
7	26.00	25.69	0.362	6.276	6.151	--	R95	5,880
7	26.00	25.69	0.362	6.276	6.151	--	T95	5,880
7	26.00	25.69	0.362	6.276	6.151	--	USS C95	5,880
7	26.00	25.69	0.362	6.276	6.151	--	USS C100	6,010
7	26.00	25.69	0.362	6.276	6.151	--	USS RYS100	6,010
7	26.00	25.69	0.362	6.276	6.151	--	C110	6,230
7	26.00	25.69	0.362	6.276	6.151	--	USS C110	6,230
7	26.00	25.69	0.362	6.276	6.151	--	USS RYH110	6,230
7	26.00	25.69	0.362	6.276	6.151	--	USS RYS110	6,230
7	26.00	25.69	0.362	6.276	6.151	--	P110 SR16	6,230
7	26.00	25.69	0.362	6.276	6.151	--	P110	6,230
7	26.00	25.69	0.362	6.276	6.151	--	P110 HC	7,540
7	26.00	25.69	0.362	6.276	6.151	--	P110 HP	8,160
7	26.00	25.69	0.362	6.276	6.151	--	Q125	6,450
7	26.00	25.69	0.362	6.276	6.151	--	Q125 HC	7,770
7	26.00	25.69	0.362	6.276	6.151	--	Q125 HP	8,400
7	26.00	25.69	0.362	6.276	6.151	--	USS 140	6,690
7	26.00	25.69	0.362	6.276	6.151	--	USS V150	6,880
7	29.00	28.75	0.408	6.184	6.059	--	J55	5,410
7	29.00	28.75	0.408	6.184	6.059	--	K55	5,410
7	29.00	28.75	0.408	6.184	6.059	--	USS GT80S	7,020
7	29.00	28.75	0.408	6.184	6.059	--	L80	7,020
7	29.00	28.75	0.408	6.184	6.059	--	L80 HC	7,880
7	29.00	28.75	0.408	6.184	6.059	--	L80 HP	8,380
7	29.00	28.75	0.408	6.184	6.059	--	N80 Type 1	7,020
7	29.00	28.75	0.408	6.184	6.059	--	N80	7,020
7	29.00	28.75	0.408	6.184	6.059	--	N80 HC	8,200
7	29.00	28.75	0.408	6.184	6.059	--	N80 HP	8,910
7	29.00	28.75	0.408	6.184	6.059	--	C90	7,580
7	29.00	28.75	0.408	6.184	6.059	--	USS C90	7,580

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
899	--	679	863	10,680	--	10,680	10,680	10,640	11,840	11,270	7.875	--		
932	--	727	917	11,080	--	11,080	11,080	11,040	12,270	12,100	7.875	--		
998	--	776	979	11,870	--	11,870	11,870	11,820	13,150	12,970	7.875	--		
415	334	367	490	4,980	4,980	4,980	4,980	4,960	5,470	5,000	7.875	7.375		
415	364	401	592	4,980	4,980	4,980	4,980	4,960	5,470	6,340	7.875	7.375		
604	--	511	641	7,250	--	7,250	7,250	7,210	7,960	7,750	7.875	7.375		
604	--	511	641	7,250	--	7,250	7,250	7,210	7,960	7,750	7.875	7.375		
604	--	511	641	7,250	--	7,250	7,250	7,210	7,960	7,750	7.875	7.375		
642	--	533	651	7,700	--	7,700	7,700	7,660	8,460	7,750	7.875	7.375		
604	--	519	667	7,250	--	7,250	7,250	7,210	7,960	6,760	7.875	7.375		
604	--	519	667	7,250	--	7,250	7,250	7,210	7,960	8,160	7.875	7.375		
604	--	519	667	7,250	--	7,250	7,250	7,210	7,960	8,160	7.875	7.375		
717	--	593	722	8,600	--	8,600	8,600	8,560	9,460	8,630	7.875	7.375		
679	--	563	687	8,150	--	8,150	8,150	8,110	8,960	9,060	7.875	7.375		
679	--	563	687	8,150	--	8,150	8,150	8,110	8,960	9,060	7.875	7.375		
717	--	593	722	8,600	--	8,600	8,600	8,560	9,460	8,630	7.875	7.375		
717	--	593	722	8,600	--	8,600	8,600	8,560	9,460	9,530	7.875	7.375		
717	--	593	722	8,600	--	8,600	8,600	8,560	9,460	9,530	7.875	7.375		
755	--	624	757	9,060	--	9,060	9,060	9,010	9,950	10,010	7.875	7.375		
755	--	624	757	9,060	--	9,060	9,060	9,010	9,950	10,010	7.875	7.375		
830	--	--	--	9,960	--	--	--	9,910	10,950	10,520	--	--		
830	--	--	--	9,960	--	--	--	9,910	10,950	10,980	--	--		
830	--	--	--	9,960	--	--	--	9,910	10,950	10,980	--	--		
830	--	--	--	9,960	--	--	--	9,910	10,950	10,980	--	--		
830	--	693	853	9,960	--	9,960	9,960	9,910	10,950	10,360	7.875	7.375		
830	--	693	853	9,960	--	9,960	9,960	9,910	10,950	11,440	7.875	7.375		
830	--	693	853	9,960	--	9,960	9,960	9,910	10,950	11,440	7.875	7.375		
944	--	741	908	11,320	--	11,320	11,320	11,260	12,440	11,980	7.875	7.375		
944	--	769	934	11,320	--	11,320	11,320	11,260	12,440	12,440	7.875	--		
944	--	769	934	11,320	--	11,320	11,320	11,260	12,440	12,440	7.875	--		
1,019	--	798	979	12,230	--	12,230	12,230	12,160	13,440	12,970	7.875	--		
1,057	--	855	1,040	12,680	--	12,680	12,680	12,610	13,940	13,930	7.875	--		
1,132	--	912	1,110	13,590	--	13,590	13,590	13,520	14,930	14,930	7.875	--		
465	--	--	--	5,610	--	--	--	5,570	6,130	5,660	--	--		
465	--	--	--	5,610	--	--	--	5,570	6,130	7,170	--	--		
676	--	587	718	8,160	--	8,160	8,160	8,110	8,920	8,770	7.875	7.375		
676	--	587	718	8,160	--	8,160	8,160	8,110	8,920	8,770	7.875	7.375		
676	--	587	718	8,160	--	8,160	8,160	8,110	8,920	8,770	7.875	7.375		
718	--	613	729	8,670	--	8,670	8,670	8,610	9,480	8,770	7.875	7.375		
676	--	597	746	8,160	--	8,160	8,160	8,110	8,920	7,640	7.875	7.375		
676	--	597	746	8,160	--	8,160	8,160	8,110	8,920	9,240	7.875	7.375		
676	--	597	746	8,160	--	8,160	8,160	8,110	8,920	9,240	7.875	7.375		
803	--	683	808	9,690	--	9,690	9,690	9,630	10,590	9,770	7.875	7.375		
760	--	648	768	9,180	--	9,180	9,180	9,120	10,040	10,260	7.875	7.375		
760	--	648	768	9,180	--	9,180	9,180	9,120	10,040	10,260	7.875	7.375		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	29.00	28.75	0.408	6.184	6.059	--	R95	7,830
7	29.00	28.75	0.408	6.184	6.059	--	T95	7,830
7	29.00	28.75	0.408	6.184	6.059	--	USS C95	7,830
7	29.00	28.75	0.408	6.184	6.059	--	USS C100	8,080
7	29.00	28.75	0.408	6.184	6.059	--	USS RYS100	8,080
7	29.00	28.75	0.408	6.184	6.059	--	C110	8,530
7	29.00	28.75	0.408	6.184	6.059	--	USS C110	8,530
7	29.00	28.75	0.408	6.184	6.059	--	USS RYH110	8,530
7	29.00	28.75	0.408	6.184	6.059	--	USS RYS110	8,530
7	29.00	28.75	0.408	6.184	6.059	--	P110 SR16	8,530
7	29.00	28.75	0.408	6.184	6.059	--	P110	8,530
7	29.00	28.75	0.408	6.184	6.059	--	P110 HC	9,750
7	29.00	28.75	0.408	6.184	6.059	--	P110 HP	10,530
7	29.00	28.75	0.408	6.184	6.059	--	Q125	9,100
7	29.00	28.75	0.408	6.184	6.059	--	Q125 HC	10,150
7	29.00	28.75	0.408	6.184	6.059	--	Q125 HP	10,960
7	29.00	28.75	0.408	6.184	6.059	--	USS 140	9,560
7	29.00	28.75	0.408	6.184	6.059	--	USS V150	9,790
7	32.00	31.70	0.453	6.094	5.969	6.000	USS GT80S	8,610
7	32.00	31.70	0.453	6.094	5.969	6.000	L80	8,610
7	32.00	31.70	0.453	6.094	5.969	6.000	L80 HC	9,290
7	32.00	31.70	0.453	6.094	5.969	6.000	L80 HP	9,820
7	32.00	31.70	0.453	6.094	5.969	6.000	N80 Type 1	8,610
7	32.00	31.70	0.453	6.094	5.969	6.000	N80	8,610
7	32.00	31.70	0.453	6.094	5.969	6.000	N80 HC	9,710
7	32.00	31.70	0.453	6.094	5.969	6.000	N80 HP	10,560
7	32.00	31.70	0.453	6.094	5.969	6.000	C90	9,380
7	32.00	31.70	0.453	6.094	5.969	6.000	USS C90	9,380
7	32.00	31.70	0.453	6.094	5.969	6.000	R95	9,750
7	32.00	31.70	0.453	6.094	5.969	6.000	T95	9,750
7	32.00	31.70	0.453	6.094	5.969	6.000	USS C95	9,750
7	32.00	31.70	0.453	6.094	5.969	6.000	USS C100	10,110
7	32.00	31.70	0.453	6.094	5.969	6.000	USS RYS100	10,110
7	32.00	31.70	0.453	6.094	5.969	6.000	C110	10,780
7	32.00	31.70	0.453	6.094	5.969	6.000	USS C110	10,780
7	32.00	31.70	0.453	6.094	5.969	6.000	USS RYH110	10,780
7	32.00	31.70	0.453	6.094	5.969	6.000	USS RYS110	10,780
7	32.00	31.70	0.453	6.094	5.969	6.000	P110 SR16	10,780
7	32.00	31.70	0.453	6.094	5.969	6.000	P110	10,780
7	32.00	31.70	0.453	6.094	5.969	6.000	P110 HC	11,890
7	32.00	31.70	0.453	6.094	5.969	6.000	P110 HP	12,830
7	32.00	31.70	0.453	6.094	5.969	6.000	Q125	11,720
7	32.00	31.70	0.453	6.094	5.969	6.000	Q125 HC	12,500
7	32.00	31.70	0.453	6.094	5.969	6.000	Q125 HP	13,460
7	32.00	31.70	0.453	6.094	5.969	6.000	USS 140	12,540

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
803	--	683	808	9,690	--	9,690	9,690	9,630	10,590	9,770	7.875	7.375			
803	--	683	808	9,690	--	9,690	9,690	9,630	10,590	10,800	7.875	7.375			
803	--	683	808	9,690	--	9,690	9,690	9,630	10,590	10,800	7.875	7.375			
845	--	717	847	10,200	--	10,200	10,200	10,130	11,150	11,340	7.875	7.375			
845	--	717	847	10,200	--	10,200	10,200	10,130	11,150	11,340	7.875	7.375			
929	--	--	--	11,220	--	--	--	11,150	12,270	11,920	--	--			
929	--	--	--	11,220	--	--	--	11,150	12,270	12,430	--	--			
929	--	--	--	11,220	--	--	--	11,150	12,270	12,430	--	--			
929	--	--	--	11,220	--	--	--	11,150	12,270	12,430	--	--			
929	--	797	955	11,220	--	11,220	11,220	11,150	12,270	11,720	7.875	7.375			
929	--	797	955	11,220	--	11,220	11,220	11,150	12,270	12,950	7.875	7.375			
929	--	797	955	11,220	--	11,220	11,220	11,150	12,270	12,950	7.875	7.375			
1,056	--	852	1,017	12,750	--	12,750	12,750	12,670	13,940	13,570	7.875	7.375			
1,056	--	885	1,045	12,750	--	12,750	12,750	12,670	13,940	14,090	7.875	--			
1,056	--	885	1,045	12,750	--	12,750	12,750	12,670	13,940	14,090	7.875	--			
1,141	--	918	1,096	13,770	--	13,770	13,770	13,680	15,050	14,690	7.875	--			
1,183	--	983	1,164	14,280	--	14,280	14,280	14,190	15,610	15,780	7.875	--			
1,267	--	1,049	1,243	15,300	--	15,300	15,300	15,200	16,730	16,910	7.875	--			
745	--	661	791	9,050	--	9,050	9,050	8,980	9,850	9,780	7.875	7.375			
745	--	661	791	9,050	--	9,050	9,050	8,980	9,850	9,780	7.875	7.375			
745	--	661	791	9,050	--	9,050	9,050	8,980	9,850	9,780	7.875	7.375			
792	--	690	804	9,620	--	9,620	9,620	9,540	10,460	9,780	7.875	7.375			
745	--	672	823	9,050	--	9,050	9,050	8,980	9,850	8,510	7.875	7.375			
745	--	672	823	9,050	--	9,050	9,050	8,980	9,850	10,300	7.875	7.375			
745	--	672	823	9,050	--	9,050	9,050	8,980	9,850	10,300	7.875	7.375			
885	--	768	891	10,750	--	10,750	10,450	10,660	11,690	10,890	7.875	7.375			
839	--	729	847	10,180	--	10,180	10,180	10,100	11,080	11,440	7.875	7.375			
839	--	729	847	10,180	--	10,180	10,180	10,100	11,080	11,440	7.875	7.375			
885	--	768	891	10,750	--	10,750	10,750	10,660	11,690	10,890	7.875	7.375			
885	--	768	891	10,750	--	10,750	10,750	10,660	11,690	12,040	7.875	7.375			
885	--	768	891	10,750	--	10,750	10,750	10,660	11,690	12,040	7.875	7.375			
932	--	808	934	11,310	--	11,310	11,310	11,220	12,310	12,650	7.875	7.375			
932	--	808	934	11,310	--	11,310	11,310	11,220	12,310	12,650	7.875	7.375			
1,025	--	--	--	12,450	--	--	--	12,340	13,540	13,290	--	--			
1,025	--	--	--	12,450	--	--	--	12,340	13,540	13,870	--	--			
1,025	--	--	--	12,450	--	--	--	12,340	13,540	13,870	--	--			
1,025	--	--	--	12,450	--	--	--	12,340	13,540	13,870	--	--			
1,025	--	897	1,053	12,450	--	12,450	12,450	12,340	13,540	13,060	7.875	7.375			
1,025	--	897	1,053	12,450	--	12,450	12,450	12,340	13,540	14,450	7.875	7.375			
1,025	--	897	1,053	12,450	--	12,450	12,450	12,340	13,540	14,450	7.875	7.375			
1,165	--	959	1,121	14,140	--	14,140	14,140	14,030	15,390	15,140	7.875	7.375			
1,165	--	996	1,152	14,140	--	14,140	14,140	14,030	15,390	15,720	7.875	--			
1,165	--	996	1,152	14,140	--	14,140	14,140	14,030	15,390	15,720	7.875	--			
1,258	--	1,033	1,208	15,270	--	15,270	15,270	15,150	16,620	16,380	7.875	--			
1,304	--	1,107	1,283	15,840	--	15,840	15,840	15,710	17,230	17,600	7.875	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	32.00	31.70	0.453	6.094	5.969	6.000	USS V150	13,020
7	35.00	34.61	0.498	6.004	5.879	--	USS GT80S	10,180
7	35.00	34.61	0.498	6.004	5.879	--	L80	10,180
7	35.00	34.61	0.498	6.004	5.879	--	L80 HC	10,650
7	35.00	34.61	0.498	6.004	5.879	--	L80 HP	11,200
7	35.00	34.61	0.498	6.004	5.879	--	N80 Type 1	10,180
7	35.00	34.61	0.498	6.004	5.879	--	N80	10,180
7	35.00	34.61	0.498	6.004	5.879	--	N80 HC	11,160
7	35.00	34.61	0.498	6.004	5.879	--	N80 HP	12,130
7	35.00	34.61	0.498	6.004	5.879	--	C90	11,170
7	35.00	34.61	0.498	6.004	5.879	--	USS C90	11,170
7	35.00	34.61	0.498	6.004	5.879	--	R95	11,650
7	35.00	34.61	0.498	6.004	5.879	--	T95	11,650
7	35.00	34.61	0.498	6.004	5.879	--	USS C95	11,650
7	35.00	34.61	0.498	6.004	5.879	--	USS C100	12,120
7	35.00	34.61	0.498	6.004	5.879	--	USS RYS100	12,120
7	35.00	34.61	0.498	6.004	5.879	--	C110	13,020
7	35.00	34.61	0.498	6.004	5.879	--	USS C110	13,020
7	35.00	34.61	0.498	6.004	5.879	--	USS RYH110	13,020
7	35.00	34.61	0.498	6.004	5.879	--	USS RYS110	13,020
7	35.00	34.61	0.498	6.004	5.879	--	P110 SR16	13,020
7	35.00	34.61	0.498	6.004	5.879	--	P110	13,020
7	35.00	34.61	0.498	6.004	5.879	--	P110 HC	13,960
7	35.00	34.61	0.498	6.004	5.879	--	P110 HP	15,040
7	35.00	34.61	0.498	6.004	5.879	--	Q125	14,310
7	35.00	34.61	0.498	6.004	5.879	--	Q125 HC	14,780
7	35.00	34.61	0.498	6.004	5.879	--	Q125 HP	15,890
7	35.00	34.61	0.498	6.004	5.879	--	USS 140	15,490
7	35.00	34.61	0.498	6.004	5.879	--	USS V150	16,220
7	38.00	37.29	0.540	5.920	5.795	--	USS GT80S	11,390
7	38.00	37.29	0.540	5.920	5.795	--	L80	11,390
7	38.00	37.29	0.540	5.920	5.795	--	L80 HC	11,870
7	38.00	37.29	0.540	5.920	5.795	--	L80 HP	12,460
7	38.00	37.29	0.540	5.920	5.795	--	N80	11,390
7	38.00	37.29	0.540	5.920	5.795	--	N80 HC	12,470
7	38.00	37.29	0.540	5.920	5.795	--	N80 HP	13,560
7	38.00	37.29	0.540	5.920	5.795	--	C90	12,820
7	38.00	37.29	0.540	5.920	5.795	--	USS C90	12,820
7	38.00	37.29	0.540	5.920	5.795	--	R95	13,440
7	38.00	37.29	0.540	5.920	5.795	--	T95	13,440
7	38.00	37.29	0.540	5.920	5.795	--	USS C95	13,440
7	38.00	37.29	0.540	5.920	5.795	--	USS C100	14,010
7	38.00	37.29	0.540	5.920	5.795	--	USS RYS100	14,010
7	38.00	37.29	0.540	5.920	5.795	--	C110	15,140
7	38.00	37.29	0.540	5.920	5.795	--	USS C110	15,140

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,398	--	1,180	1,370	16,970	--	16,970	16,970	16,830	18,460	18,860	7.875	--			
814	--	734	864	9,970	--	9,970	9,970	9,870	10,760	10,830	7.875	7.375			
814	--	734	864	9,970	--	9,970	9,970	9,870	10,760	10,830	7.875	7.375			
814	--	734	864	9,970	--	9,970	9,970	9,870	10,760	10,830	7.875	7.375			
865	--	766	877	10,590	--	10,590	10,450	10,480	11,430	10,830	7.875	7.375			
814	--	746	898	9,970	--	9,970	9,970	9,870	10,760	9,410	7.875	7.375			
814	--	746	898	9,970	--	9,970	9,970	9,870	10,760	11,400	7.875	7.375			
814	--	746	898	9,970	--	9,970	9,970	9,870	10,760	11,400	7.875	7.375			
966	--	853	973	11,830	--	11,210	10,450	11,720	12,780	12,060	7.875	7.375			
915	--	809	925	11,210	--	11,210	11,210	11,100	12,110	12,670	7.875	7.375			
915	--	809	925	11,210	--	11,210	11,210	11,100	12,110	12,670	7.875	7.375			
966	--	853	973	11,830	--	11,830	11,830	11,720	12,780	12,060	7.875	7.375			
966	--	853	973	11,830	--	11,830	11,830	11,720	12,780	13,340	7.875	7.375			
966	--	853	973	11,830	--	11,830	11,830	11,720	12,780	13,340	7.875	7.375			
1,017	--	897	1,020	12,460	--	12,460	12,460	12,330	13,450	14,010	7.875	7.375			
1,017	--	897	1,020	12,460	--	12,460	12,460	12,330	13,450	14,010	7.875	7.375			
1,119	--	--	--	13,700	--	--	--	13,570	14,800	14,720	--	--			
1,119	--	--	--	13,700	--	--	--	13,570	14,800	15,360	--	--			
1,119	--	--	--	13,700	--	--	--	13,570	14,800	15,360	--	--			
1,119	--	--	--	13,700	--	--	--	13,570	14,800	15,360	--	--			
1,119	--	996	1,150	13,700	--	13,700	13,700	13,570	14,800	14,460	7.875	7.375			
1,119	--	996	1,150	13,700	--	13,700	13,700	13,570	14,800	16,000	7.875	7.375			
1,119	--	996	1,150	13,700	--	13,700	13,700	13,570	14,800	16,000	7.875	7.375			
1,272	--	1,065	1,224	15,570	--	15,410	14,370	15,420	16,810	16,760	7.875	7.375			
1,272	--	1,106	1,258	15,570	--	15,570	15,570	15,420	16,810	17,410	7.875	--			
1,272	--	1,106	1,258	15,570	--	15,570	15,570	15,420	16,810	17,410	7.875	--			
1,373	--	1,147	1,319	16,820	--	16,820	16,330	16,650	18,160	18,140	7.875	--			
1,424	--	1,229	1,401	17,440	--	17,440	17,440	17,270	18,830	19,490	7.875	--			
1,526	--	1,311	1,496	18,690	--	18,690	18,690	18,500	20,180	20,890	7.875	--			
877	--	801	931	10,810	--	10,810	10,450	10,690	11,600	11,800	7.875	7.375			
877	--	801	931	10,810	--	10,810	10,450	10,690	11,600	11,800	7.875	7.375			
877	--	801	931	10,810	--	10,810	10,450	10,690	11,600	11,800	7.875	7.375			
932	--	836	945	11,490	--	11,210	10,450	11,350	12,330	11,800	7.875	7.375			
877	--	814	968	10,810	--	10,810	10,450	10,690	11,600	12,420	7.875	7.375			
877	--	814	968	10,810	--	10,810	10,450	10,690	11,600	12,420	7.875	7.375			
1,041	--	931	1,048	12,840	--	11,210	10,450	12,690	13,780	13,140	7.875	7.375			
986	--	883	997	12,160	--	12,160	11,760	12,020	13,050	13,820	7.875	7.375			
986	--	883	997	12,160	--	12,160	11,760	12,020	13,050	13,820	7.875	7.375			
1,041	--	931	1,048	12,840	--	12,840	12,410	12,690	13,780	13,140	7.875	7.375			
1,041	--	931	1,048	12,840	--	12,840	12,410	12,690	13,780	14,550	7.875	7.375			
1,041	--	931	1,048	12,840	--	12,840	12,410	12,690	13,780	14,550	7.875	7.375			
1,096	--	978	1,099	13,510	--	13,510	13,070	13,360	14,500	15,280	7.875	7.375			
1,096	--	978	1,099	13,510	--	13,510	13,070	13,360	14,500	15,280	7.875	7.375			
1,205	--	--	--	14,870	--	--	--	14,690	15,950	16,050	--	--			
1,205	--	--	--	14,870	--	--	--	14,690	15,950	16,750	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	38.00	37.29	0.540	5.920	5.795	--	USS RYH110	15,140
7	38.00	37.29	0.540	5.920	5.795	--	USS RYS110	15,140
7	38.00	37.29	0.540	5.920	5.795	--	P110 SR16	15,140
7	38.00	37.29	0.540	5.920	5.795	--	P110	15,140
7	38.00	37.29	0.540	5.920	5.795	--	P110 HC	15,820
7	38.00	37.29	0.540	5.920	5.795	--	P110 HP	17,020
7	38.00	37.29	0.540	5.920	5.795	--	Q125	16,750
7	38.00	37.29	0.540	5.920	5.795	--	Q125 HC	16,840
7	38.00	37.29	0.540	5.920	5.795	--	Q125 HP	18,080
7	38.00	37.29	0.540	5.920	5.795	--	USS 140	18,280
7	38.00	37.29	0.540	5.920	5.795	--	USS V150	19,240
7	41.00	40.43	0.590	5.820	5.695	--	USS GT80S	12,350
7	41.00	40.43	0.590	5.820	5.695	--	L80	12,350
7	41.00	40.43	0.590	5.820	5.695	--	L80 HC	13,290
7	41.00	40.43	0.590	5.820	5.695	--	L80 HP	13,920
7	41.00	40.43	0.590	5.820	5.695	--	N80	12,350
7	41.00	40.43	0.590	5.820	5.695	--	N80 HC	13,990
7	41.00	40.43	0.590	5.820	5.695	--	N80 HP	15,210
7	41.00	40.43	0.590	5.820	5.695	--	C90	13,900
7	41.00	40.43	0.590	5.820	5.695	--	USS C90	13,900
7	41.00	40.43	0.590	5.820	5.695	--	R95	14,670
7	41.00	40.43	0.590	5.820	5.695	--	T95	14,670
7	41.00	40.43	0.590	5.820	5.695	--	USS C95	14,670
7	41.00	40.43	0.590	5.820	5.695	--	USS C100	15,440
7	41.00	40.43	0.590	5.820	5.695	--	USS RYS100	15,440
7	41.00	40.43	0.590	5.820	5.695	--	C110	16,990
7	41.00	40.43	0.590	5.820	5.695	--	USS C110	16,990
7	41.00	40.43	0.590	5.820	5.695	--	USS RYH110	16,990
7	41.00	40.43	0.590	5.820	5.695	--	USS RYS110	16,990
7	41.00	40.43	0.590	5.820	5.695	--	P110 SR16	16,990
7	41.00	40.43	0.590	5.820	5.695	--	P110	16,990
7	41.00	40.43	0.590	5.820	5.695	--	P110 HC	17,960
7	41.00	40.43	0.590	5.820	5.695	--	P110 HP	19,310
7	41.00	40.43	0.590	5.820	5.695	--	Q125	19,300
7	41.00	40.43	0.590	5.820	5.695	--	Q125 HC	19,200
7	41.00	40.43	0.590	5.820	5.695	--	Q125 HP	20,590
7	41.00	40.43	0.590	5.820	5.695	--	USS 140	21,580
7	41.00	40.43	0.590	5.820	5.695	--	USS V150	22,820
7	42.70	42.59	0.625	5.750	5.625	--	USS GT80S	13,010
7	42.70	42.59	0.625	5.750	5.625	--	L80	13,010
7	42.70	42.59	0.625	5.750	5.625	--	L80 HC	14,270
7	42.70	42.59	0.625	5.750	5.625	--	L80 HP	14,930
7	42.70	42.59	0.625	5.750	5.625	--	N80	13,010
7	42.70	42.59	0.625	5.750	5.625	--	N80 HC	15,040
7	42.70	42.59	0.625	5.750	5.625	--	N80 HP	16,340

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,205	--	--	--	14,870	--	--	--	14,690	15,950	16,750	--	--
1,205	--	--	--	14,870	--	--	--	14,690	15,950	16,750	--	--
1,205	--	1,087	1,239	14,870	--	14,870	14,370	14,690	15,950	15,770	7.875	7.375
1,205	--	1,087	1,239	14,870	--	14,870	14,370	14,690	15,950	17,450	7.875	7.375
1,205	--	1,087	1,239	14,870	--	14,870	14,370	14,690	15,950	17,450	7.875	7.375
1,370	--	1,162	1,319	16,890	--	15,410	14,370	16,700	18,130	18,280	7.875	7.375
1,370	--	1,207	1,356	16,890	--	16,890	16,330	16,700	18,130	18,990	7.875	--
1,370	--	1,207	1,356	16,890	--	16,890	16,330	16,700	18,130	18,990	7.875	--
1,479	--	1,251	1,421	18,240	--	17,510	16,330	18,030	19,580	19,790	7.875	--
1,534	--	1,341	1,509	18,920	--	18,920	18,290	18,700	20,310	21,250	7.875	--
1,644	--	1,430	1,612	20,270	--	20,270	19,600	20,040	21,760	22,780	7.875	--
950	--	--	--	11,790	--	--	--	11,630	12,590	12,950	--	--
950	--	--	--	11,790	--	--	--	11,630	12,590	12,950	--	--
950	--	--	--	11,790	--	--	--	11,630	12,590	12,950	--	--
1,010	--	--	--	12,530	--	--	--	12,360	13,380	12,950	--	--
950	--	--	--	11,790	--	--	--	11,630	12,590	13,630	--	--
950	--	--	--	11,790	--	--	--	11,630	12,590	13,630	--	--
1,129	--	--	--	14,010	--	--	--	13,810	14,950	14,420	--	--
1,069	--	--	--	13,270	--	--	--	13,090	14,170	15,170	--	--
1,069	--	--	--	13,270	--	--	--	13,090	14,170	15,170	--	--
1,129	--	--	--	14,010	--	--	--	13,810	14,950	14,420	--	--
1,129	--	--	--	14,010	--	--	--	13,810	14,950	15,970	--	--
1,129	--	--	--	14,010	--	--	--	13,810	14,950	15,970	--	--
1,188	--	--	--	14,740	--	--	--	14,540	15,740	16,770	--	--
1,188	--	--	--	14,740	--	--	--	14,540	15,740	16,770	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	17,620	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	18,380	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	18,380	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	18,380	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	17,290	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	19,150	--	--
1,307	--	--	--	16,220	--	--	--	15,990	17,320	19,150	--	--
1,485	--	--	--	18,430	--	--	--	18,180	19,680	20,070	--	--
1,485	--	--	--	18,430	--	--	--	18,180	19,680	20,840	--	--
1,485	--	--	--	18,430	--	--	--	18,180	19,680	20,840	--	--
1,604	--	--	--	19,900	--	--	--	19,630	21,250	21,720	--	--
1,663	--	--	--	20,640	--	--	--	20,360	22,040	23,330	--	--
1,782	--	--	--	22,110	--	--	--	21,810	23,610	25,010	--	--
1,001	--	--	--	12,500	--	--	--	12,310	13,280	13,780	--	--
1,001	--	--	--	12,500	--	--	--	12,310	13,280	13,780	--	--
1,001	--	--	--	12,500	--	--	--	12,310	13,280	13,780	--	--
1,064	--	--	--	13,280	--	--	--	13,080	14,110	13,780	--	--
1,001	--	--	--	12,500	--	--	--	12,310	13,280	14,510	--	--
1,001	--	--	--	12,500	--	--	--	12,310	13,280	14,510	--	--
1,189	--	--	--	14,850	--	--	--	14,620	15,770	15,350	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	42.70	42.59	0.625	5.750	5.625	--	C90	14,640
7	42.70	42.59	0.625	5.750	5.625	--	USS C90	14,640
7	42.70	42.59	0.625	5.750	5.625	--	T95	15,450
7	42.70	42.59	0.625	5.750	5.625	--	USS C95	15,450
7	42.70	42.59	0.625	5.750	5.625	--	USS C100	16,260
7	42.70	42.59	0.625	5.750	5.625	--	USS RYS100	16,260
7	42.70	42.59	0.625	5.750	5.625	--	C110	17,890
7	42.70	42.59	0.625	5.750	5.625	--	USS C110	17,890
7	42.70	42.59	0.625	5.750	5.625	--	USS RYH110	17,890
7	42.70	42.59	0.625	5.750	5.625	--	USS RYS110	17,890
7	42.70	42.59	0.625	5.750	5.625	--	P110 SR16	17,890
7	42.70	42.59	0.625	5.750	5.625	--	P110	17,890
7	42.70	42.59	0.625	5.750	5.625	--	P110 HC	19,420
7	42.70	42.59	0.625	5.750	5.625	--	P110 HP	20,870
7	42.70	42.59	0.625	5.750	5.625	--	Q125	20,330
7	42.70	42.59	0.625	5.750	5.625	--	Q125 HC	20,800
7	42.70	42.59	0.625	5.750	5.625	--	Q125 HP	22,300
7	42.70	42.59	0.625	5.750	5.625	--	USS 140	22,770
7	42.70	42.59	0.625	5.750	5.625	--	USS V150	24,390
7	46.40	46.36	0.687	5.626	5.501	--	USS GT80S	14,160
7	46.40	46.36	0.687	5.626	5.501	--	L80	14,160
7	46.40	46.36	0.687	5.626	5.501	--	L80 HC	15,990
7	46.40	46.36	0.687	5.626	5.501	--	L80 HP	16,710
7	46.40	46.36	0.687	5.626	5.501	--	N80	14,160
7	46.40	46.36	0.687	5.626	5.501	--	N80 HC	16,860
7	46.40	46.36	0.687	5.626	5.501	--	N80 HP	18,330
7	46.40	46.36	0.687	5.626	5.501	--	C90	15,930
7	46.40	46.36	0.687	5.626	5.501	--	USS C90	15,930
7	46.40	46.36	0.687	5.626	5.501	--	T95	16,820
7	46.40	46.36	0.687	5.626	5.501	--	USS C95	16,820
7	46.40	46.36	0.687	5.626	5.501	--	USS C100	17,700
7	46.40	46.36	0.687	5.626	5.501	--	USS RYS100	17,700
7	46.40	46.36	0.687	5.626	5.501	--	C110	19,470
7	46.40	46.36	0.687	5.626	5.501	--	USS C110	19,470
7	46.40	46.36	0.687	5.626	5.501	--	USS RYH110	19,470
7	46.40	46.36	0.687	5.626	5.501	--	USS RYS110	19,470
7	46.40	46.36	0.687	5.626	5.501	--	P110 SR16	19,470
7	46.40	46.36	0.687	5.626	5.501	--	P110	19,470
7	46.40	46.36	0.687	5.626	5.501	--	P110 HC	21,950
7	46.40	46.36	0.687	5.626	5.501	--	P110 HP	23,580
7	46.40	46.36	0.687	5.626	5.501	--	Q125	22,130
7	46.40	46.36	0.687	5.626	5.501	--	Q125 HC	23,580
7	46.40	46.36	0.687	5.626	5.501	--	Q125 HP	25,270
7	46.40	46.36	0.687	5.626	5.501	--	USS 140	24,780
7	46.40	46.36	0.687	5.626	5.501	--	USS V150	26,550

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,127	--	--	--	14,070	--	--	--	13,850	14,940	16,150	--	--
1,127	--	--	--	14,070	--	--	--	13,850	14,940	16,150	--	--
1,189	--	--	--	14,850	--	--	--	14,620	15,770	17,000	--	--
1,189	--	--	--	14,850	--	--	--	14,620	15,770	17,000	--	--
1,252	--	--	--	15,630	--	--	--	15,390	16,600	17,860	--	--
1,252	--	--	--	15,630	--	--	--	15,390	16,600	17,860	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	18,760	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	19,580	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	19,580	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	19,580	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	18,410	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	20,390	--	--
1,377	--	--	--	17,190	--	--	--	16,930	18,260	20,390	--	--
1,565	--	--	--	19,540	--	--	--	19,230	20,750	21,370	--	--
1,565	--	--	--	19,540	--	--	--	19,230	20,750	22,190	--	--
1,565	--	--	--	19,540	--	--	--	19,230	20,750	22,190	--	--
1,690	--	--	--	21,100	--	--	--	20,770	22,410	23,130	--	--
1,752	--	--	--	21,880	--	--	--	21,540	23,240	24,840	--	--
1,878	--	--	--	23,440	--	--	--	23,080	24,890	26,630	--	--
1,090	--	--	--	13,740	--	--	--	13,480	14,470	15,250	--	--
1,090	--	--	--	13,740	--	--	--	13,480	14,470	15,250	--	--
1,090	--	--	--	13,740	--	--	--	13,480	14,470	15,250	--	--
1,158	--	--	--	14,600	--	--	--	14,320	15,380	15,250	--	--
1,090	--	--	--	13,740	--	--	--	13,480	14,470	16,050	--	--
1,090	--	--	--	13,740	--	--	--	13,480	14,470	16,050	--	--
1,294	--	--	--	16,310	--	--	--	16,010	17,190	16,980	--	--
1,226	--	--	--	15,450	--	--	--	15,170	16,280	17,890	--	--
1,226	--	--	--	15,450	--	--	--	15,170	16,280	17,890	--	--
1,294	--	--	--	16,310	--	--	--	16,010	17,190	18,830	--	--
1,294	--	--	--	16,310	--	--	--	16,010	17,190	18,830	--	--
1,363	--	--	--	17,170	--	--	--	16,850	18,090	19,770	--	--
1,363	--	--	--	17,170	--	--	--	16,850	18,090	19,770	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	20,780	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	21,680	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	21,680	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	21,680	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	20,370	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	22,580	--	--
1,499	--	--	--	18,890	--	--	--	18,540	19,900	22,580	--	--
1,703	--	--	--	21,460	--	--	--	21,060	22,610	23,660	--	--
1,703	--	--	--	21,460	--	--	--	21,060	22,610	24,570	--	--
1,703	--	--	--	21,460	--	--	--	21,060	22,610	24,570	--	--
1,839	--	--	--	23,180	--	--	--	22,750	24,420	25,610	--	--
1,908	--	--	--	24,040	--	--	--	23,590	25,330	27,510	--	--
2,044	--	--	--	25,760	--	--	--	25,280	27,140	29,490	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	50.10	50.11	0.750	5.500	5.375	--	USS GT80S	15,310
7	50.10	50.11	0.750	5.500	5.375	--	L80	15,310
7	50.10	50.11	0.750	5.500	5.375	--	L80 HC	17,720
7	50.10	50.11	0.750	5.500	5.375	--	L80 HP	18,500
7	50.10	50.11	0.750	5.500	5.375	--	N80	15,310
7	50.10	50.11	0.750	5.500	5.375	--	N80 HC	18,700
7	50.10	50.11	0.750	5.500	5.375	--	N80 HP	20,330
7	50.10	50.11	0.750	5.500	5.375	--	C90	17,220
7	50.10	50.11	0.750	5.500	5.375	--	USS C90	17,220
7	50.10	50.11	0.750	5.500	5.375	--	T95	18,180
7	50.10	50.11	0.750	5.500	5.375	--	USS C95	18,180
7	50.10	50.11	0.750	5.500	5.375	--	USS C100	19,140
7	50.10	50.11	0.750	5.500	5.375	--	USS RYS100	19,140
7	50.10	50.11	0.750	5.500	5.375	--	C110	21,050
7	50.10	50.11	0.750	5.500	5.375	--	USS C110	21,050
7	50.10	50.11	0.750	5.500	5.375	--	USS RYH110	21,050
7	50.10	50.11	0.750	5.500	5.375	--	USS RYS110	21,050
7	50.10	50.11	0.750	5.500	5.375	--	P110 SR16	21,050
7	50.10	50.11	0.750	5.500	5.375	--	P110	21,050
7	50.10	50.11	0.750	5.500	5.375	--	P110 HC	24,480
7	50.10	50.11	0.750	5.500	5.375	--	P110 HP	26,290
7	50.10	50.11	0.750	5.500	5.375	--	Q125	23,920
7	50.10	50.11	0.750	5.500	5.375	--	Q125 HC	26,340
7	50.10	50.11	0.750	5.500	5.375	--	Q125 HP	28,220
7	50.10	50.11	0.750	5.500	5.375	--	USS 140	26,790
7	50.10	50.11	0.750	5.500	5.375	--	USS V150	28,710
7	53.60	53.71	0.812	5.376	5.251	--	USS GT80S	16,410
7	53.60	53.71	0.812	5.376	5.251	--	L80	16,410
7	53.60	53.71	0.812	5.376	5.251	--	L80 HC	19,410
7	53.60	53.71	0.812	5.376	5.251	--	L80 HP	20,260
7	53.60	53.71	0.812	5.376	5.251	--	N80	16,410
7	53.60	53.71	0.812	5.376	5.251	--	N80 HC	20,510
7	53.60	53.71	0.812	5.376	5.251	--	N80 HP	22,290
7	53.60	53.71	0.812	5.376	5.251	--	C90	18,460
7	53.60	53.71	0.812	5.376	5.251	--	USS C90	18,460
7	53.60	53.71	0.812	5.376	5.251	--	T95	19,480
7	53.60	53.71	0.812	5.376	5.251	--	USS C95	19,480
7	53.60	53.71	0.812	5.376	5.251	--	USS C100	20,510
7	53.60	53.71	0.812	5.376	5.251	--	USS RYS100	20,510
7	53.60	53.71	0.812	5.376	5.251	--	C110	22,560
7	53.60	53.71	0.812	5.376	5.251	--	USS C110	22,560
7	53.60	53.71	0.812	5.376	5.251	--	USS RYH110	22,560
7	53.60	53.71	0.812	5.376	5.251	--	USS RYS110	22,560
7	53.60	53.71	0.812	5.376	5.251	--	P110 SR16	22,560
7	53.60	53.71	0.812	5.376	5.251	--	P110	22,560

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical				Lame’ – Von Mises				
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End		Regular Coupling	Special Clr Coupling
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,178	--	--	--	14,990	--	--	--	14,660	15,660	16,760	--	--
1,178	--	--	--	14,990	--	--	--	14,660	15,660	16,760	--	--
1,178	--	--	--	14,990	--	--	--	14,660	15,660	16,760	--	--
1,252	--	--	--	15,930	--	--	--	15,580	16,640	16,760	--	--
1,178	--	--	--	14,990	--	--	--	14,660	15,660	17,650	--	--
1,178	--	--	--	14,990	--	--	--	14,660	15,660	17,650	--	--
1,399	--	--	--	17,810	--	--	--	17,410	18,600	18,670	--	--
1,325	--	--	--	16,870	--	--	--	16,490	17,620	19,680	--	--
1,325	--	--	--	16,870	--	--	--	16,490	17,620	19,680	--	--
1,399	--	--	--	17,810	--	--	--	17,410	18,600	20,720	--	--
1,399	--	--	--	17,810	--	--	--	17,410	18,600	20,720	--	--
1,473	--	--	--	18,740	--	--	--	18,330	19,580	21,760	--	--
1,473	--	--	--	18,740	--	--	--	18,330	19,580	21,760	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	22,860	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	23,860	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	23,860	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	23,860	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	22,390	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	24,850	--	--
1,620	--	--	--	20,620	--	--	--	20,160	21,540	24,850	--	--
1,841	--	--	--	23,430	--	--	--	22,910	24,480	26,040	--	--
1,841	--	--	--	23,430	--	--	--	22,910	24,480	27,040	--	--
1,841	--	--	--	23,430	--	--	--	22,910	24,480	27,040	--	--
1,988	--	--	--	25,300	--	--	--	24,740	26,430	28,180	--	--
2,062	--	--	--	26,240	--	--	--	25,660	27,410	30,270	--	--
2,209	--	--	--	28,110	--	--	--	27,490	29,370	32,450	--	--
1,263	--	--	--	16,250	--	--	--	15,830	16,810	18,310	--	--
1,263	--	--	--	16,250	--	--	--	15,830	16,810	18,310	--	--
1,263	--	--	--	16,250	--	--	--	15,830	16,810	18,310	--	--
1,342	--	--	--	17,270	--	--	--	16,820	17,870	18,310	--	--
1,263	--	--	--	16,250	--	--	--	15,830	16,810	19,270	--	--
1,263	--	--	--	16,250	--	--	--	15,830	16,810	19,270	--	--
1,500	--	--	--	19,300	--	--	--	18,800	19,970	20,390	--	--
1,421	--	--	--	18,280	--	--	--	17,810	18,920	21,510	--	--
1,421	--	--	--	18,280	--	--	--	17,810	18,920	21,510	--	--
1,500	--	--	--	19,300	--	--	--	18,800	19,970	22,640	--	--
1,500	--	--	--	19,300	--	--	--	18,800	19,970	22,640	--	--
1,579	--	--	--	20,310	--	--	--	19,790	21,020	23,780	--	--
1,579	--	--	--	20,310	--	--	--	19,790	21,020	23,780	--	--
1,736	--	--	--	22,350	--	--	--	21,770	23,120	24,980	--	--
1,736	--	--	--	22,350	--	--	--	21,770	23,120	26,070	--	--
1,736	--	--	--	22,350	--	--	--	21,770	23,120	26,070	--	--
1,736	--	--	--	22,350	--	--	--	21,770	23,120	26,070	--	--
1,736	--	--	--	22,350	--	--	--	21,770	23,120	24,450	--	--
1,736	--	--	--	22,350	--	--	--	21,770	23,120	27,160	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7	53.60	53.71	0.812	5.376	5.251	--	P110 HC	26,930
7	53.60	53.71	0.812	5.376	5.251	--	P110 HP	28,920
7	53.60	53.71	0.812	5.376	5.251	--	Q125	25,640
7	53.60	53.71	0.812	5.376	5.251	--	Q125 HC	29,030
7	53.60	53.71	0.812	5.376	5.251	--	Q125 HP	31,080
7	53.60	53.71	0.812	5.376	5.251	--	USS 140	28,710
7	53.60	53.71	0.812	5.376	5.251	--	USS V150	30,770
7	57.10	57.29	0.875	5.250	5.125	--	USS GT80S	17,500
7	57.10	57.29	0.875	5.250	5.125	--	L80	17,500
7	57.10	57.29	0.875	5.250	5.125	--	L80 HC	21,130
7	57.10	57.29	0.875	5.250	5.125	--	L80 HP	22,050
7	57.10	57.29	0.875	5.250	5.125	--	N80	17,500
7	57.10	57.29	0.875	5.250	5.125	--	N80 HC	22,330
7	57.10	57.29	0.875	5.250	5.125	--	N80 HP	24,280
7	57.10	57.29	0.875	5.250	5.125	--	C90	19,690
7	57.10	57.29	0.875	5.250	5.125	--	USS C90	19,690
7	57.10	57.29	0.875	5.250	5.125	--	T95	20,780
7	57.10	57.29	0.875	5.250	5.125	--	USS C95	20,780
7	57.10	57.29	0.875	5.250	5.125	--	USS C100	21,880
7	57.10	57.29	0.875	5.250	5.125	--	USS RYS100	21,880
7	57.10	57.29	0.875	5.250	5.125	--	C110	24,060
7	57.10	57.29	0.875	5.250	5.125	--	USS C110	24,060
7	57.10	57.29	0.875	5.250	5.125	--	USS RYH110	24,060
7	57.10	57.29	0.875	5.250	5.125	--	USS RYS110	24,060
7	57.10	57.29	0.875	5.250	5.125	--	P110 SR16	24,060
7	57.10	57.29	0.875	5.250	5.125	--	P110	24,060
7	57.10	57.29	0.875	5.250	5.125	--	P110 HC	29,420
7	57.10	57.29	0.875	5.250	5.125	--	P110 HP	31,580
7	57.10	57.29	0.875	5.250	5.125	--	Q125	27,340
7	57.10	57.29	0.875	5.250	5.125	--	Q125 HC	31,730
7	57.10	57.29	0.875	5.250	5.125	--	Q125 HP	33,970
7	57.10	57.29	0.875	5.250	5.125	--	USS 140	30,630
7	57.10	57.29	0.875	5.250	5.125	--	USS V150	32,810
7 5/8	20.00	19.71	0.250	7.125	7.000	--	H40	1,410
7 5/8	24.00	23.49	0.300	7.025	6.900	--	H40	2,030
7 5/8	26.40	25.59	0.328	6.969	6.844	--	J55	2,890
7 5/8	26.40	25.59	0.328	6.969	6.844	--	K55	2,890
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS GT80S	3,400
7 5/8	26.40	25.59	0.328	6.969	6.844	--	L80	3,400
7 5/8	26.40	25.59	0.328	6.969	6.844	--	L80 HC	4,320
7 5/8	26.40	25.59	0.328	6.969	6.844	--	L80 HP	4,710
7 5/8	26.40	25.59	0.328	6.969	6.844	--	N80	3,400
7 5/8	26.40	25.59	0.328	6.969	6.844	--	N80 HC	4,410
7 5/8	26.40	25.59	0.328	6.969	6.844	--	N80 HP	4,800
7 5/8	26.40	25.59	0.328	6.969	6.844	--	C90	3,610

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises				Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,736	--	--	--	22,350	--	--	--	21,770	23,120	27,160	--	--
1,973	--	--	--	25,390	--	--	--	24,730	26,270	28,450	--	--
1,973	--	--	--	25,390	--	--	--	24,730	26,270	29,550	--	--
1,973	--	--	--	25,390	--	--	--	24,730	26,270	29,550	--	--
2,131	--	--	--	27,420	--	--	--	26,710	28,370	30,800	--	--
2,210	--	--	--	28,440	--	--	--	27,700	29,430	33,080	--	--
2,368	--	--	--	30,470	--	--	--	29,680	31,530	35,460	--	--
1,347	--	--	--	17,510	--	--	--	16,980	17,960	19,870	--	--
1,347	--	--	--	17,510	--	--	--	16,980	17,960	19,870	--	--
1,347	--	--	--	17,510	--	--	--	16,980	17,960	19,870	--	--
1,431	--	--	--	18,600	--	--	--	18,040	19,080	19,870	--	--
1,347	--	--	--	17,510	--	--	--	16,980	17,960	20,920	--	--
1,347	--	--	--	17,510	--	--	--	16,980	17,960	20,920	--	--
1,600	--	--	--	20,790	--	--	--	20,170	21,330	22,130	--	--
1,515	--	--	--	19,700	--	--	--	19,100	20,210	23,360	--	--
1,515	--	--	--	19,700	--	--	--	19,100	20,210	23,360	--	--
1,600	--	--	--	20,790	--	--	--	20,170	21,330	24,590	--	--
1,600	--	--	--	20,790	--	--	--	20,170	21,330	24,590	--	--
1,684	--	--	--	21,890	--	--	--	21,230	22,450	25,830	--	--
1,684	--	--	--	21,890	--	--	--	21,230	22,450	25,830	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	27,140	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	28,320	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	28,320	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	28,320	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	26,540	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	29,500	--	--
1,852	--	--	--	24,070	--	--	--	23,350	24,700	29,500	--	--
2,105	--	--	--	27,360	--	--	--	26,530	28,060	30,910	--	--
2,105	--	--	--	27,360	--	--	--	26,530	28,060	32,100	--	--
2,105	--	--	--	27,360	--	--	--	26,530	28,060	32,100	--	--
2,273	--	--	--	29,550	--	--	--	28,660	30,310	33,450	--	--
2,357	--	--	--	30,640	--	--	--	29,720	31,430	35,930	--	--
2,526	--	--	--	32,830	--	--	--	31,840	33,680	38,520	--	--
232	166	--	--	2,300	2,300	--	--	2,290	2,570	2,490	8.500	--
276	212	--	--	2,760	2,760	--	--	2,750	3,060	3,000	8.500	--
414	315	346	483	4,140	4,140	4,140	4,140	4,130	4,590	4,130	8.500	8.125
414	342	377	581	4,140	4,140	4,140	4,140	4,130	4,590	5,240	8.500	8.125
602	--	482	635	6,020	--	6,020	6,020	6,000	6,680	6,400	8.500	8.125
602	--	482	635	6,020	--	6,020	6,020	6,000	6,680	6,400	8.500	8.125
602	--	482	635	6,020	--	6,020	6,020	6,000	6,680	6,400	8.500	8.125
639	--	503	645	6,400	--	6,400	6,400	6,380	7,090	6,400	8.500	8.125
602	--	490	659	6,020	--	6,020	6,020	6,000	6,680	6,740	8.500	8.125
602	--	490	659	6,020	--	6,020	6,020	6,000	6,680	6,740	8.500	8.125
714	--	560	716	7,150	--	7,150	7,150	7,130	7,930	7,130	8.500	8.125
677	--	532	681	6,780	--	6,780	6,780	6,750	7,510	7,470	8.500	8.125

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS C90	3,610
7 5/8	26.40	25.59	0.328	6.969	6.844	--	R95	3,710
7 5/8	26.40	25.59	0.328	6.969	6.844	--	T95	3,710
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS C95	3,710
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS C100	3,790
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS RYS100	3,790
7 5/8	26.40	25.59	0.328	6.969	6.844	--	C110	3,920
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS C110	3,920
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS RYH110	3,920
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS RYS110	3,920
7 5/8	26.40	25.59	0.328	6.969	6.844	--	P110 SR16	3,920
7 5/8	26.40	25.59	0.328	6.969	6.844	--	P110	3,920
7 5/8	26.40	25.59	0.328	6.969	6.844	--	P110 HC	4,790
7 5/8	26.40	25.59	0.328	6.969	6.844	--	P110 HP	5,200
7 5/8	26.40	25.59	0.328	6.969	6.844	--	Q125	4,050
7 5/8	26.40	25.59	0.328	6.969	6.844	--	Q125 HC	4,880
7 5/8	26.40	25.59	0.328	6.969	6.844	--	Q125 HP	5,290
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS 140	4,080
7 5/8	26.40	25.59	0.328	6.969	6.844	--	USS V150	4,080
7 5/8	29.70	29.06	0.375	6.875	6.750	--	J55	3,910
7 5/8	29.70	29.06	0.375	6.875	6.750	--	K55	3,910
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS GT80S	4,790
7 5/8	29.70	29.06	0.375	6.875	6.750	--	L80	4,790
7 5/8	29.70	29.06	0.375	6.875	6.750	--	L80 HC	5,780
7 5/8	29.70	29.06	0.375	6.875	6.750	--	L80 HP	6,220
7 5/8	29.70	29.06	0.375	6.875	6.750	--	N80	4,790
7 5/8	29.70	29.06	0.375	6.875	6.750	--	N80 HC	5,950
7 5/8	29.70	29.06	0.375	6.875	6.750	--	N80 HP	6,470
7 5/8	29.70	29.06	0.375	6.875	6.750	--	C90	5,040
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS C90	5,040
7 5/8	29.70	29.06	0.375	6.875	6.750	--	R95	5,140
7 5/8	29.70	29.06	0.375	6.875	6.750	--	T95	5,140
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS C95	5,140
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS C100	5,220
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS RYS100	5,220
7 5/8	29.70	29.06	0.375	6.875	6.750	--	C110	5,350
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS C110	5,350
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS RYH110	5,350
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS RYS110	5,350
7 5/8	29.70	29.06	0.375	6.875	6.750	--	P110 SR16	5,350
7 5/8	29.70	29.06	0.375	6.875	6.750	--	P110	5,350
7 5/8	29.70	29.06	0.375	6.875	6.750	--	P110 HC	6,700
7 5/8	29.70	29.06	0.375	6.875	6.750	--	P110 HP	7,260
7 5/8	29.70	29.06	0.375	6.875	6.750	--	Q125	5,670
7 5/8	29.70	29.06	0.375	6.875	6.750	--	Q125 HC	6,880

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
677	--	532	681	6,780	--	6,780	6,780	6,750	7,510	7,470	8.500	8.125			
714	--	560	716	7,150	--	7,150	7,150	7,130	7,930	7,130	8.500	8.125			
714	--	560	716	7,150	--	7,150	7,150	7,130	7,930	7,870	8.500	8.125			
714	--	560	716	7,150	--	7,150	7,150	7,130	7,930	7,870	8.500	8.125			
752	--	589	751	7,530	--	7,530	7,530	7,500	8,350	8,260	8.500	8.125			
752	--	589	751	7,530	--	7,530	7,530	7,500	8,350	8,260	8.500	8.125			
827	--	--	--	8,280	--	--	--	8,250	9,180	8,680	--	--			
827	--	--	--	8,280	--	--	--	8,250	9,180	9,060	--	--			
827	--	--	--	8,280	--	--	--	8,250	9,180	9,060	--	--			
827	--	--	--	8,280	--	--	--	8,250	9,180	9,060	--	--			
827	--	654	845	8,280	--	8,280	8,280	8,250	9,180	8,550	8.500	8.125			
827	--	654	845	8,280	--	8,280	8,280	8,250	9,180	9,430	8.500	8.125			
827	--	654	845	8,280	--	8,280	8,280	8,250	9,180	9,430	8.500	8.125			
940	--	720	902	9,410	--	9,410	9,410	9,380	10,430	9,880	8.500	8.125			
940	--	733	926	9,410	--	9,410	9,410	9,380	10,430	10,270	8.500	--			
940	--	733	926	9,410	--	9,410	9,410	9,380	10,430	10,270	8.500	--			
1,015	--	775	972	10,160	--	10,160	10,160	10,130	11,270	10,700	8.500	--			
1,053	--	819	1,032	10,540	--	10,540	10,540	10,500	11,680	11,490	8.500	--			
1,128	--	876	1,102	11,290	--	11,290	11,290	11,250	12,520	12,320	8.500	--			
470	--	--	--	4,730	--	--	--	4,710	5,220	4,740	--	--			
470	--	--	--	4,730	--	--	--	4,710	5,220	6,010	--	--			
683	--	566	721	6,880	--	6,880	6,880	6,850	7,590	7,350	8.500	8.125			
683	--	566	721	6,880	--	6,880	6,880	6,850	7,590	7,350	8.500	8.125			
683	--	566	721	6,880	--	6,880	6,880	6,850	7,590	7,350	8.500	8.125			
726	--	591	733	7,310	--	7,310	7,310	7,280	8,060	7,350	8.500	8.125			
683	--	575	749	6,880	--	6,880	6,880	6,850	7,590	7,730	8.500	8.125			
683	--	575	749	6,880	--	6,880	6,880	6,850	7,590	7,730	8.500	8.125			
811	--	659	813	8,170	--	8,170	8,170	8,130	9,010	8,180	8.500	8.125			
769	--	625	773	7,740	--	7,740	7,740	7,710	8,540	8,580	8.500	8.125			
769	--	625	773	7,740	--	7,740	7,740	7,710	8,540	8,580	8.500	8.125			
811	--	659	813	8,170	--	8,170	8,170	8,130	9,010	8,180	8.500	8.125			
811	--	659	813	8,170	--	8,170	8,170	8,130	9,010	9,040	8.500	8.125			
811	--	659	813	8,170	--	8,170	8,170	8,130	9,010	9,040	8.500	8.125			
854	--	692	853	8,600	--	8,600	8,600	8,560	9,490	9,490	8.500	8.125			
854	--	692	853	8,600	--	8,600	8,600	8,560	9,490	9,490	8.500	8.125			
940	--	--	--	9,460	--	--	--	9,420	10,440	9,970	--	--			
940	--	--	--	9,460	--	--	--	9,420	10,440	10,400	--	--			
940	--	--	--	9,460	--	--	--	9,420	10,440	10,400	--	--			
940	--	--	--	9,460	--	--	--	9,420	10,440	10,400	--	--			
940	--	769	960	9,460	--	9,460	9,460	9,420	10,440	9,810	8.500	8.125			
940	--	769	960	9,460	--	9,460	9,460	9,420	10,440	10,840	8.500	8.125			
940	--	769	960	9,460	--	9,460	9,460	9,420	10,440	10,840	8.500	8.125			
1,068	--	846	1,025	10,750	--	10,750	10,750	10,700	11,860	11,360	8.500	8.125			
1,068	--	861	1,052	10,750	--	10,750	10,750	10,700	11,860	11,790	8.500	--			
1,068	--	861	1,052	10,750	--	10,750	10,750	10,700	11,860	11,790	8.500	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 5/8	29.70	29.06	0.375	6.875	6.750	--	Q125 HP	7,450
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS 140	5,930
7 5/8	29.70	29.06	0.375	6.875	6.750	--	USS V150	6,060
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS GT80S	6,560
7 5/8	33.70	33.07	0.430	6.765	6.640	--	L80	6,560
7 5/8	33.70	33.07	0.430	6.765	6.640	--	L80 HC	7,460
7 5/8	33.70	33.07	0.430	6.765	6.640	--	L80 HP	7,940
7 5/8	33.70	33.07	0.430	6.765	6.640	--	N80	6,560
7 5/8	33.70	33.07	0.430	6.765	6.640	--	N80 HC	7,740
7 5/8	33.70	33.07	0.430	6.765	6.640	--	N80 HP	8,420
7 5/8	33.70	33.07	0.430	6.765	6.640	--	C90	7,050
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS C90	7,050
7 5/8	33.70	33.07	0.430	6.765	6.640	--	R95	7,280
7 5/8	33.70	33.07	0.430	6.765	6.640	--	T95	7,280
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS C95	7,280
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS C100	7,490
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS RYS100	7,490
7 5/8	33.70	33.07	0.430	6.765	6.640	--	C110	7,870
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS C110	7,870
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS RYH110	7,870
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS RYS110	7,870
7 5/8	33.70	33.07	0.430	6.765	6.640	--	P110 SR16	7,870
7 5/8	33.70	33.07	0.430	6.765	6.640	--	P110	7,870
7 5/8	33.70	33.07	0.430	6.765	6.640	--	P110 HC	9,110
7 5/8	33.70	33.07	0.430	6.765	6.640	--	P110 HP	9,850
7 5/8	33.70	33.07	0.430	6.765	6.640	--	Q125	8,350
7 5/8	33.70	33.07	0.430	6.765	6.640	--	Q125 HC	9,460
7 5/8	33.70	33.07	0.430	6.765	6.640	--	Q125 HP	10,220
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS 140	8,690
7 5/8	33.70	33.07	0.430	6.765	6.640	--	USS V150	8,850
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS GT80S	7,690
7 5/8	35.80	35.59	0.465	6.695	6.570	--	L80	7,690
7 5/8	35.80	35.59	0.465	6.695	6.570	--	L80 HC	8,480
7 5/8	35.80	35.59	0.465	6.695	6.570	--	L80 HP	8,990
7 5/8	35.80	35.59	0.465	6.695	6.570	--	N80	7,690
7 5/8	35.80	35.59	0.465	6.695	6.570	--	N80 HC	8,840
7 5/8	35.80	35.59	0.465	6.695	6.570	--	N80 HP	9,610
7 5/8	35.80	35.59	0.465	6.695	6.570	--	C90	8,330
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS C90	8,330
7 5/8	35.80	35.59	0.465	6.695	6.570	--	R95	8,640
7 5/8	35.80	35.59	0.465	6.695	6.570	--	T95	8,640
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS C95	8,640
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS C100	8,930
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS RYS100	8,930
7 5/8	35.80	35.59	0.465	6.695	6.570	--	C110	9,470

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical			Lame' - Von Mises				Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,153	--	911	1,104	11,610	--	11,610	11,610	11,560	12,810	12,290	8.500	--			
1,196	--	962	1,172	12,040	--	12,040	12,040	11,990	13,280	13,200	8.500	--			
1,281	--	1,030	1,252	12,900	--	12,900	12,900	12,840	14,230	14,150	8.500	--			
778	--	664	820	7,890	--	7,890	7,890	7,840	8,650	8,470	8.500	8.125			
778	--	664	820	7,890	--	7,890	7,890	7,840	8,650	8,470	8.500	8.125			
778	--	664	820	7,890	--	7,890	7,890	7,840	8,650	8,470	8.500	8.125			
826	--	693	834	8,380	--	8,380	8,380	8,330	9,190	8,470	8.500	8.125			
778	--	674	852	7,890	--	7,890	7,890	7,840	8,650	8,920	8.500	8.125			
778	--	674	852	7,890	--	7,890	7,890	7,840	8,650	8,920	8.500	8.125			
923	--	772	925	9,370	--	9,370	9,370	9,310	10,270	9,430	8.500	8.125			
875	--	733	880	8,880	--	8,880	8,880	8,820	9,730	9,900	8.500	8.125			
875	--	733	880	8,880	--	8,880	8,880	8,820	9,730	9,900	8.500	8.125			
923	--	772	925	9,370	--	9,370	9,370	9,310	10,270	9,430	8.500	8.125			
923	--	772	925	9,370	--	9,370	9,370	9,310	10,270	10,420	8.500	8.125			
923	--	772	925	9,370	--	9,370	9,370	9,310	10,270	10,420	8.500	8.125			
972	--	812	971	9,860	--	9,860	9,860	9,800	10,810	10,950	8.500	8.125			
972	--	812	971	9,860	--	9,860	9,860	9,800	10,810	10,950	8.500	8.125			
1,069	--	--	--	10,850	--	--	--	10,780	11,890	11,500	--	--			
1,069	--	--	--	10,850	--	--	--	10,780	11,890	12,000	--	--			
1,069	--	--	--	10,850	--	--	--	10,780	11,890	12,000	--	--			
1,069	--	--	--	10,850	--	--	--	10,780	11,890	12,000	--	--			
1,069	--	901	1,093	10,850	--	10,850	10,850	10,780	11,890	11,310	8.500	8.125			
1,069	--	901	1,093	10,850	--	10,850	10,850	10,780	11,890	12,500	8.500	8.125			
1,069	--	901	1,093	10,850	--	10,850	10,850	10,780	11,890	12,500	8.500	8.125			
1,215	--	992	1,166	12,330	--	12,330	12,330	12,250	13,510	13,100	8.500	8.125			
1,215	--	1,009	1,197	12,330	--	12,330	12,330	12,250	13,510	13,600	8.500	--			
1,215	--	1,009	1,197	12,330	--	12,330	12,330	12,250	13,510	13,600	8.500	--			
1,312	--	1,068	1,257	13,310	--	13,310	13,310	13,230	14,590	14,180	8.500	--			
1,361	--	1,128	1,334	13,810	--	13,810	13,810	13,720	15,130	15,230	8.500	--			
1,458	--	1,207	1,424	14,790	--	14,790	14,790	14,700	16,210	16,320	8.500	--			
837	--	--	--	8,540	--	--	--	8,480	9,310	9,200	--	--			
837	--	--	--	8,540	--	--	--	8,480	9,310	9,200	--	--			
837	--	--	--	8,540	--	--	--	8,480	9,310	9,200	--	--			
889	--	--	--	9,070	--	--	--	9,010	9,890	9,200	--	--			
837	--	--	--	8,540	--	--	--	8,480	9,310	9,690	--	--			
837	--	--	--	8,540	--	--	--	8,480	9,310	9,690	--	--			
994	--	--	--	10,140	--	--	--	10,070	11,060	10,250	--	--			
941	--	--	--	9,610	--	--	--	9,540	10,470	10,760	--	--			
941	--	--	--	9,610	--	--	--	9,540	10,470	10,760	--	--			
994	--	--	--	10,140	--	--	--	10,070	11,060	10,250	--	--			
994	--	--	--	10,140	--	--	--	10,070	11,060	11,330	--	--			
994	--	--	--	10,140	--	--	--	10,070	11,060	11,330	--	--			
1,046	--	--	--	10,680	--	--	--	10,600	11,640	11,900	--	--			
1,046	--	--	--	10,680	--	--	--	10,600	11,640	11,900	--	--			
1,151	--	--	--	11,740	--	--	--	11,660	12,800	12,500	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS C110	9,470
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS RYH110	9,470
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS RYS110	9,470
7 5/8	35.80	35.59	0.465	6.695	6.570	--	P110 SR16	9,470
7 5/8	35.80	35.59	0.465	6.695	6.570	--	P110	9,470
7 5/8	35.80	35.59	0.465	6.695	6.570	--	P110 HC	10,660
7 5/8	35.80	35.59	0.465	6.695	6.570	--	P110 HP	11,500
7 5/8	35.80	35.59	0.465	6.695	6.570	--	Q125	10,200
7 5/8	35.80	35.59	0.465	6.695	6.570	--	Q125 HC	11,140
7 5/8	35.80	35.59	0.465	6.695	6.570	--	Q125 HP	12,020
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS 140	10,810
7 5/8	35.80	35.59	0.465	6.695	6.570	--	USS V150	11,140
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS GT80S	8,820
7 5/8	39.00	38.08	0.500	6.625	6.500	--	L80	8,820
7 5/8	39.00	38.08	0.500	6.625	6.500	--	L80 HC	9,480
7 5/8	39.00	38.08	0.500	6.625	6.500	--	L80 HP	10,010
7 5/8	39.00	38.08	0.500	6.625	6.500	--	N80	8,820
7 5/8	39.00	38.08	0.500	6.625	6.500	--	N80 HC	9,910
7 5/8	39.00	38.08	0.500	6.625	6.500	--	N80 HP	10,770
7 5/8	39.00	38.08	0.500	6.625	6.500	--	C90	9,620
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS C90	9,620
7 5/8	39.00	38.08	0.500	6.625	6.500	--	R95	10,000
7 5/8	39.00	38.08	0.500	6.625	6.500	--	T95	10,000
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS C95	10,000
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS C100	10,370
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS RYS100	10,370
7 5/8	39.00	38.08	0.500	6.625	6.500	--	C110	11,080
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS C110	11,080
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS RYH110	11,080
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS RYS110	11,080
7 5/8	39.00	38.08	0.500	6.625	6.500	--	P110 SR16	11,080
7 5/8	39.00	38.08	0.500	6.625	6.500	--	P110	11,080
7 5/8	39.00	38.08	0.500	6.625	6.500	--	P110 HC	12,180
7 5/8	39.00	38.08	0.500	6.625	6.500	--	P110 HP	13,130
7 5/8	39.00	38.08	0.500	6.625	6.500	--	Q125	12,060
7 5/8	39.00	38.08	0.500	6.625	6.500	--	Q125 HC	12,810
7 5/8	39.00	38.08	0.500	6.625	6.500	--	Q125 HP	13,790
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS 140	12,930
7 5/8	39.00	38.08	0.500	6.625	6.500	--	USS V150	13,440
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS GT80S	10,810
7 5/8	42.80	42.43	0.562	6.501	6.376	--	L80	10,810
7 5/8	42.80	42.43	0.562	6.501	6.376	--	L80 HC	11,170
7 5/8	42.80	42.43	0.562	6.501	6.376	--	L80 HP	11,740
7 5/8	42.80	42.43	0.562	6.501	6.376	--	N80	10,810
7 5/8	42.80	42.43	0.562	6.501	6.376	--	N80 HC	11,730

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,151	--	--	--	11,740	--	--	--	11,660	12,800	13,040	--	--		
1,151	--	--	--	11,740	--	--	--	11,660	12,800	13,040	--	--		
1,151	--	--	--	11,740	--	--	--	11,660	12,800	13,040	--	--		
1,151	--	--	--	11,740	--	--	--	11,660	12,800	12,290	--	--		
1,151	--	--	--	11,740	--	--	--	11,660	12,800	13,590	--	--		
1,151	--	--	--	11,740	--	--	--	11,660	12,800	13,590	--	--		
1,308	--	--	--	13,340	--	--	--	13,250	14,550	14,240	--	--		
1,308	--	--	--	13,340	--	--	--	13,250	14,550	14,780	--	--		
1,308	--	--	--	13,340	--	--	--	13,250	14,550	14,780	--	--		
1,412	--	--	--	14,410	--	--	--	14,310	15,710	15,410	--	--		
1,464	--	--	--	14,950	--	--	--	14,840	16,290	16,550	--	--		
1,569	--	--	--	16,010	--	--	--	15,900	17,460	17,740	--	--		
895	--	786	945	9,190	--	9,190	9,190	9,110	9,970	9,940	8.500	8.125		
895	--	786	945	9,190	--	9,190	9,190	9,110	9,970	9,940	8.500	8.125		
895	--	786	945	9,190	--	9,190	9,190	9,110	9,970	9,940	8.500	8.125		
951	--	820	961	9,770	--	9,770	9,770	9,680	10,590	9,940	8.500	8.125		
895	--	798	981	9,190	--	9,190	9,190	9,110	9,970	10,470	8.500	8.125		
895	--	798	981	9,190	--	9,190	9,190	9,110	9,970	10,470	8.500	8.125		
1,063	--	914	1,065	10,910	--	10,490	9,790	10,820	11,840	11,070	8.500	8.125		
1,007	--	867	1,013	10,340	--	10,340	10,340	10,250	11,220	11,630	8.500	8.125		
1,007	--	867	1,013	10,340	--	10,340	10,340	10,250	11,220	11,630	8.500	8.125		
1,063	--	914	1,065	10,910	--	10,910	10,910	10,820	11,840	11,070	8.500	8.125		
1,063	--	914	1,065	10,910	--	10,910	10,910	10,820	11,840	12,240	8.500	8.125		
1,063	--	914	1,065	10,910	--	10,910	10,910	10,820	11,840	12,240	8.500	8.125		
1,119	--	960	1,118	11,490	--	11,490	11,490	11,390	12,460	12,860	8.500	8.125		
1,119	--	960	1,118	11,490	--	11,490	11,490	11,390	12,460	12,860	8.500	8.125		
1,231	--	--	--	12,640	--	--	--	12,530	13,710	13,510	--	--		
1,231	--	--	--	12,640	--	--	--	12,530	13,710	14,100	--	--		
1,231	--	--	--	12,640	--	--	--	12,530	13,710	14,100	--	--		
1,231	--	--	--	12,640	--	--	--	12,530	13,710	14,100	--	--		
1,231	--	1,066	1,258	12,640	--	12,640	12,640	12,530	13,710	13,280	8.500	8.125		
1,231	--	1,066	1,258	12,640	--	12,640	12,640	12,530	13,710	14,680	8.500	8.125		
1,231	--	1,066	1,258	12,640	--	12,640	12,640	12,530	13,710	14,680	8.500	8.125		
1,399	--	1,173	1,343	14,360	--	14,360	13,460	14,240	15,580	15,380	8.500	8.125		
1,399	--	1,194	1,379	14,360	--	14,360	14,360	14,240	15,580	15,980	8.500	--		
1,399	--	1,194	1,379	14,360	--	14,360	14,360	14,240	15,580	15,980	8.500	--		
1,511	--	1,264	1,447	15,510	--	15,510	15,290	15,380	16,820	16,650	8.500	--		
1,567	--	1,335	1,536	16,080	--	16,080	16,080	15,950	17,450	17,890	8.500	--		
1,679	--	1,428	1,640	17,230	--	17,230	17,230	17,090	18,690	19,170	8.500	--		
998	--	891	1,053	10,320	--	10,320	9,790	10,220	11,120	11,240	8.500	8.125		
998	--	891	1,053	10,320	--	10,320	9,790	10,220	11,120	11,240	8.500	8.125		
998	--	891	1,053	10,320	--	10,320	9,790	10,220	11,120	11,240	8.500	8.125		
1,060	--	930	1,070	10,970	--	10,490	9,790	10,850	11,820	11,240	8.500	8.125		
998	--	905	1,093	10,320	--	10,320	9,790	10,220	11,120	11,830	8.500	8.125		
998	--	905	1,093	10,320	--	10,320	9,790	10,220	11,120	11,830	8.500	8.125		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 5/8	42.80	42.43	0.562	6.501	6.376	--	N80 HP	12,750
7 5/8	42.80	42.43	0.562	6.501	6.376	--	C90	11,890
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS C90	11,890
7 5/8	42.80	42.43	0.562	6.501	6.376	--	R95	12,410
7 5/8	42.80	42.43	0.562	6.501	6.376	--	T95	12,410
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS C95	12,410
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS C100	12,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS RYS100	12,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	C110	13,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS C110	13,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS RYH110	13,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS RYS110	13,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	P110 SR16	13,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	P110	13,920
7 5/8	42.80	42.43	0.562	6.501	6.376	--	P110 HC	14,770
7 5/8	42.80	42.43	0.562	6.501	6.376	--	P110 HP	15,890
7 5/8	42.80	42.43	0.562	6.501	6.376	--	Q125	15,350
7 5/8	42.80	42.43	0.562	6.501	6.376	--	Q125 HC	15,670
7 5/8	42.80	42.43	0.562	6.501	6.376	--	Q125 HP	16,840
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS 140	16,680
7 5/8	42.80	42.43	0.562	6.501	6.376	--	USS V150	17,500
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS GT80S	11,510
7 5/8	45.30	44.71	0.595	6.435	6.310	--	L80	11,510
7 5/8	45.30	44.71	0.595	6.435	6.310	--	L80 HC	12,050
7 5/8	45.30	44.71	0.595	6.435	6.310	--	L80 HP	12,640
7 5/8	45.30	44.71	0.595	6.435	6.310	--	N80	11,510
7 5/8	45.30	44.71	0.595	6.435	6.310	--	N80 HC	12,660
7 5/8	45.30	44.71	0.595	6.435	6.310	--	N80 HP	13,760
7 5/8	45.30	44.71	0.595	6.435	6.310	--	C90	12,950
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS C90	12,950
7 5/8	45.30	44.71	0.595	6.435	6.310	--	R95	13,660
7 5/8	45.30	44.71	0.595	6.435	6.310	--	T95	13,660
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS C95	13,660
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS C100	14,280
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS RYS100	14,280
7 5/8	45.30	44.71	0.595	6.435	6.310	--	C110	15,430
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS C110	15,430
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS RYH110	15,430
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS RYS110	15,430
7 5/8	45.30	44.71	0.595	6.435	6.310	--	P110 SR16	15,430
7 5/8	45.30	44.71	0.595	6.435	6.310	--	P110	15,430
7 5/8	45.30	44.71	0.595	6.435	6.310	--	P110 HC	16,090
7 5/8	45.30	44.71	0.595	6.435	6.310	--	P110 HP	17,310
7 5/8	45.30	44.71	0.595	6.435	6.310	--	Q125	17,090
7 5/8	45.30	44.71	0.595	6.435	6.310	--	Q125 HC	17,140

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,185	--	1,037	1,187	12,260	--	10,490	9,790	12,130	13,210	12,520	8.500	8.125			
1,122	--	983	1,129	11,610	--	11,610	11,010	11,490	12,510	13,160	8.500	8.125			
1,122	--	983	1,129	11,610	--	11,610	11,010	11,490	12,510	13,160	8.500	8.125			
1,185	--	1,037	1,187	12,260	--	12,260	11,620	12,130	13,210	12,520	8.500	8.125			
1,185	--	1,037	1,187	12,260	--	12,260	11,620	12,130	13,210	13,850	8.500	8.125			
1,185	--	1,037	1,187	12,260	--	12,260	11,620	12,130	13,210	13,850	8.500	8.125			
1,247	--	1,090	1,245	12,910	--	12,910	12,240	12,770	13,900	14,540	8.500	8.125			
1,247	--	1,090	1,245	12,910	--	12,910	12,240	12,770	13,900	14,540	8.500	8.125			
1,372	--	--	--	14,200	--	--	--	14,050	15,290	15,280	--	--			
1,372	--	--	--	14,200	--	--	--	14,050	15,290	15,940	--	--			
1,372	--	--	--	14,200	--	--	--	14,050	15,290	15,940	--	--			
1,372	--	--	--	14,200	--	--	--	14,050	15,290	15,940	--	--			
1,372	--	1,210	1,402	14,200	--	14,200	13,460	14,050	15,290	15,010	8.500	8.125			
1,372	--	1,210	1,402	14,200	--	14,200	13,460	14,050	15,290	16,610	8.500	8.125			
1,372	--	1,210	1,402	14,200	--	14,200	13,460	14,050	15,290	16,610	8.500	8.125			
1,559	--	1,331	1,496	16,130	--	14,430	13,460	15,960	17,380	17,400	8.500	8.125			
1,559	--	1,355	1,536	16,130	--	16,130	15,290	15,960	17,380	18,070	8.500	--			
1,559	--	1,355	1,536	16,130	--	16,130	15,290	15,960	17,380	18,070	8.500	--			
1,683	--	1,434	1,612	17,420	--	16,400	15,290	17,240	18,770	18,840	8.500	--			
1,746	--	1,514	1,711	18,070	--	18,070	17,130	17,880	19,460	20,230	8.500	--			
1,871	--	1,620	1,827	19,360	--	19,360	18,350	19,150	20,850	21,690	8.500	--			
1,051	--	947	1,109	10,930	--	10,490	9,790	10,800	11,730	11,940	8.500	8.125			
1,051	--	947	1,109	10,930	--	10,490	9,790	10,800	11,730	11,940	8.500	8.125			
1,051	--	947	1,109	10,930	--	10,490	9,790	10,800	11,730	11,940	8.500	8.125			
1,117	--	988	1,128	11,620	--	10,490	9,790	11,480	12,460	11,940	8.500	8.125			
1,051	--	962	1,152	10,930	--	10,490	9,790	10,800	11,730	12,570	8.500	8.125			
1,051	--	962	1,152	10,930	--	10,490	9,790	10,800	11,730	12,570	8.500	8.125			
1,248	--	1,101	1,238	12,980	--	10,490	9,790	12,830	13,930	13,300	8.500	8.125			
1,183	--	1,045	1,189	12,300	--	11,810	11,010	12,150	13,190	13,980	8.500	8.125			
1,183	--	1,045	1,189	12,300	--	11,810	11,010	12,150	13,190	13,980	8.500	8.125			
1,248	--	1,101	1,251	12,980	--	12,460	11,620	12,830	13,930	13,300	8.500	8.125			
1,248	--	1,101	1,251	12,980	--	12,460	11,620	12,830	13,930	14,720	8.500	8.125			
1,248	--	1,101	1,251	12,980	--	12,460	11,620	12,830	13,930	14,720	8.500	8.125			
1,314	--	1,157	1,312	13,670	--	13,120	12,240	13,500	14,660	15,460	8.500	8.125			
1,314	--	1,157	1,312	13,670	--	13,120	12,240	13,500	14,660	15,460	8.500	8.125			
1,446	--	--	--	15,030	--	--	--	14,850	16,120	16,240	--	--			
1,446	--	--	--	15,030	--	--	--	14,850	16,120	16,950	--	--			
1,446	--	--	--	15,030	--	--	--	14,850	16,120	16,950	--	--			
1,446	--	--	--	15,030	--	--	--	14,850	16,120	16,950	--	--			
1,446	--	1,285	1,477	15,030	--	14,430	13,460	14,850	16,120	15,950	8.500	8.125			
1,446	--	1,285	1,477	15,030	--	14,430	13,460	14,850	16,120	17,660	8.500	8.125			
1,446	--	1,285	1,477	15,030	--	14,430	13,460	14,850	16,120	17,660	8.500	8.125			
1,643	--	1,414	1,548	17,080	--	14,430	13,460	16,880	18,320	18,500	8.500	8.125			
1,643	--	1,439	1,619	17,080	--	16,400	15,290	16,880	18,320	19,210	8.500	--			
1,643	--	1,439	1,619	17,080	--	16,400	15,290	16,880	18,320	19,210	8.500	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 5/8	45.30	44.71	0.595	6.435	6.310	--	Q125 HP	18,400
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS 140	18,670
7 5/8	45.30	44.71	0.595	6.435	6.310	--	USS V150	19,660
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS GT80S	12,040
7 5/8	47.10	46.77	0.625	6.375	6.250	--	L80	12,040
7 5/8	47.10	46.77	0.625	6.375	6.250	--	L80 HC	12,830
7 5/8	47.10	46.77	0.625	6.375	6.250	--	L80 HP	13,450
7 5/8	47.10	46.77	0.625	6.375	6.250	--	N80	12,040
7 5/8	47.10	46.77	0.625	6.375	6.250	--	N80 HC	13,500
7 5/8	47.10	46.77	0.625	6.375	6.250	--	N80 HP	14,670
7 5/8	47.10	46.77	0.625	6.375	6.250	--	C90	13,540
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS C90	13,540
7 5/8	47.10	46.77	0.625	6.375	6.250	--	R95	14,300
7 5/8	47.10	46.77	0.625	6.375	6.250	--	T95	14,300
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS C95	14,300
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS C100	15,050
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS RYS100	15,050
7 5/8	47.10	46.77	0.625	6.375	6.250	--	C110	16,550
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS C110	16,550
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS RYH110	16,550
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS RYS110	16,550
7 5/8	47.10	46.77	0.625	6.375	6.250	--	P110 SR16	16,550
7 5/8	47.10	46.77	0.625	6.375	6.250	--	P110	16,550
7 5/8	47.10	46.77	0.625	6.375	6.250	--	P110 HC	17,280
7 5/8	47.10	46.77	0.625	6.375	6.250	--	P110 HP	18,580
7 5/8	47.10	46.77	0.625	6.375	6.250	--	Q125	18,700
7 5/8	47.10	46.77	0.625	6.375	6.250	--	Q125 HC	18,440
7 5/8	47.10	46.77	0.625	6.375	6.250	--	Q125 HP	19,790
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS 140	20,500
7 5/8	47.10	46.77	0.625	6.375	6.250	--	USS V150	21,650
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS GT80S	13,120
7 5/8	51.20	50.95	0.687	6.251	6.126	--	L80	13,120
7 5/8	51.20	50.95	0.687	6.251	6.126	--	L80 HC	14,430
7 5/8	51.20	50.95	0.687	6.251	6.126	--	L80 HP	15,100
7 5/8	51.20	50.95	0.687	6.251	6.126	--	N80	13,120
7 5/8	51.20	50.95	0.687	6.251	6.126	--	N80 HC	15,200
7 5/8	51.20	50.95	0.687	6.251	6.126	--	N80 HP	16,530
7 5/8	51.20	50.95	0.687	6.251	6.126	--	C90	14,760
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS C90	14,760
7 5/8	51.20	50.95	0.687	6.251	6.126	--	T95	15,580
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS C95	15,580
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS C100	16,390
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS RYS100	16,390
7 5/8	51.20	50.95	0.687	6.251	6.126	--	C110	18,030
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS C110	18,030

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,774	--	1,523	1,672	18,450	--	16,400	15,290	18,230	19,790	20,020	8.500	--		
1,840	--	1,608	1,803	19,130	--	18,360	17,130	18,910	20,520	21,510	8.500	--		
1,971	--	1,721	1,926	20,500	--	19,680	18,350	20,260	21,990	23,060	8.500	--		
1,100	--	997	1,160	11,480	--	10,490	9,790	11,330	12,270	12,580	8.500	8.125		
1,100	--	997	1,160	11,480	--	10,490	9,790	11,330	12,270	12,580	8.500	8.125		
1,100	--	997	1,160	11,480	--	10,490	9,790	11,330	12,270	12,580	8.500	8.125		
1,168	--	1,040	1,176	12,200	--	10,490	9,790	12,040	13,040	12,580	8.500	8.125		
1,100	--	1,013	1,205	11,480	--	10,490	9,790	11,330	12,270	13,240	8.500	8.125		
1,100	--	1,013	1,205	11,480	--	10,490	9,790	11,330	12,270	13,240	8.500	8.125		
1,306	--	1,159	1,238	13,630	--	10,490	9,790	13,450	14,570	14,010	8.500	8.125		
1,237	--	1,100	1,238	12,910	--	11,810	11,010	12,740	13,810	14,730	8.500	8.125		
1,237	--	1,100	1,238	12,910	--	11,810	11,010	12,740	13,810	14,730	8.500	8.125		
1,306	--	1,159	1,300	13,630	--	12,460	11,620	13,450	14,570	14,010	8.500	8.125		
1,306	--	1,159	1,300	13,630	--	12,460	11,620	13,450	14,570	15,510	8.500	8.125		
1,306	--	1,159	1,300	13,630	--	12,460	11,620	13,450	14,570	15,510	8.500	8.125		
1,374	--	1,219	1,362	14,350	--	13,120	12,240	14,160	15,340	16,290	8.500	8.125		
1,374	--	1,219	1,362	14,350	--	13,120	12,240	14,160	15,340	16,290	8.500	8.125		
1,512	--	--	--	15,780	--	--	--	15,580	16,880	17,110	--	--		
1,512	--	--	--	15,780	--	--	--	15,580	16,880	17,860	--	--		
1,512	--	--	--	15,780	--	--	--	15,580	16,880	17,860	--	--		
1,512	--	--	--	15,780	--	--	--	15,580	16,880	17,860	--	--		
1,512	--	1,353	1,545	15,780	--	14,430	13,460	15,580	16,880	16,800	8.500	8.125		
1,512	--	1,353	1,545	15,780	--	14,430	13,460	15,580	16,880	18,600	8.500	8.125		
1,512	--	1,353	1,545	15,780	--	14,430	13,460	15,580	16,880	18,600	8.500	8.125		
1,718	--	1,489	1,548	17,930	--	14,430	13,460	17,700	19,180	19,490	8.500	8.125		
1,718	--	1,515	1,672	17,930	--	16,400	15,290	17,700	19,180	20,240	8.500	--		
1,718	--	1,515	1,672	17,930	--	16,400	15,290	17,700	19,180	20,240	8.500	--		
1,855	--	1,603	1,672	19,370	--	16,400	15,290	19,120	20,710	21,090	8.500	--		
1,924	--	1,693	1,858	20,090	--	18,360	17,130	19,830	21,480	22,660	8.500	--		
2,062	--	1,812	1,981	21,520	--	19,680	18,350	21,240	23,010	24,290	8.500	--		
1,198	--	--	--	12,610	--	--	--	12,410	13,390	13,910	--	--		
1,198	--	--	--	12,610	--	--	--	12,410	13,390	13,910	--	--		
1,198	--	--	--	12,610	--	--	--	12,410	13,390	13,910	--	--		
1,273	--	--	--	13,400	--	--	--	13,190	14,220	13,910	--	--		
1,198	--	--	--	12,610	--	--	--	12,410	13,390	14,640	--	--		
1,198	--	--	--	12,610	--	--	--	12,410	13,390	14,640	--	--		
1,423	--	--	--	14,980	--	--	--	14,740	15,900	15,490	--	--		
1,348	--	--	--	14,190	--	--	--	13,960	15,060	16,300	--	--		
1,348	--	--	--	14,190	--	--	--	13,960	15,060	16,300	--	--		
1,423	--	--	--	14,980	--	--	--	14,740	15,900	17,160	--	--		
1,423	--	--	--	14,980	--	--	--	14,740	15,900	17,160	--	--		
1,497	--	--	--	15,760	--	--	--	15,520	16,730	18,020	--	--		
1,497	--	--	--	15,760	--	--	--	15,520	16,730	18,020	--	--		
1,647	--	--	--	17,340	--	--	--	17,070	18,410	18,940	--	--		
1,647	--	--	--	17,340	--	--	--	17,070	18,410	19,760	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS RYH110	18,030
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS RYS110	18,030
7 5/8	51.20	50.95	0.687	6.251	6.126	--	P110 SR16	18,030
7 5/8	51.20	50.95	0.687	6.251	6.126	--	P110	18,030
7 5/8	51.20	50.95	0.687	6.251	6.126	--	P110 HC	19,660
7 5/8	51.20	50.95	0.687	6.251	6.126	--	P110 HP	21,120
7 5/8	51.20	50.95	0.687	6.251	6.126	--	Q125	20,490
7 5/8	51.20	50.95	0.687	6.251	6.126	--	Q125 HC	21,060
7 5/8	51.20	50.95	0.687	6.251	6.126	--	Q125 HP	22,580
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS 140	22,950
7 5/8	51.20	50.95	0.687	6.251	6.126	--	USS V150	24,590
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS GT80S	14,190
7 5/8	55.30	55.12	0.750	6.125	6.000	--	L80	14,190
7 5/8	55.30	55.12	0.750	6.125	6.000	--	L80 HC	16,030
7 5/8	55.30	55.12	0.750	6.125	6.000	--	L80 HP	16,750
7 5/8	55.30	55.12	0.750	6.125	6.000	--	N80	14,190
7 5/8	55.30	55.12	0.750	6.125	6.000	--	N80 HC	16,910
7 5/8	55.30	55.12	0.750	6.125	6.000	--	N80 HP	18,380
7 5/8	55.30	55.12	0.750	6.125	6.000	--	C90	15,960
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS C90	15,960
7 5/8	55.30	55.12	0.750	6.125	6.000	--	T95	16,850
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS C95	16,850
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS C100	17,730
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS RYS100	17,730
7 5/8	55.30	55.12	0.750	6.125	6.000	--	C110	19,510
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS C110	19,510
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS RYH110	19,510
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS RYS110	19,510
7 5/8	55.30	55.12	0.750	6.125	6.000	--	P110 SR16	19,510
7 5/8	55.30	55.12	0.750	6.125	6.000	--	P110	19,510
7 5/8	55.30	55.12	0.750	6.125	6.000	--	P110 HC	22,010
7 5/8	55.30	55.12	0.750	6.125	6.000	--	P110 HP	23,650
7 5/8	55.30	55.12	0.750	6.125	6.000	--	Q125	22,160
7 5/8	55.30	55.12	0.750	6.125	6.000	--	Q125 HC	23,650
7 5/8	55.30	55.12	0.750	6.125	6.000	--	Q125 HP	25,340
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS 140	24,820
7 5/8	55.30	55.12	0.750	6.125	6.000	--	USS V150	26,600
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS GT80S	11,340
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	L80	11,340
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	L80 HC	11,790
7 3/4	46.10	45.51	0.595	6.560	6.435	6.473	L80 HP	12,380
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	N80	11,340
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	N80 HC	12,390
7 3/4	46.10	45.51	0.595	6.560	6.435	6.473	N80 HP	13,470
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	C90	12,740

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises				Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,647	--	--	--	17,340	--	--	--	17,070	18,410	19,760	--	--
1,647	--	--	--	17,340	--	--	--	17,070	18,410	19,760	--	--
1,647	--	--	--	17,340	--	--	--	17,070	18,410	18,580	--	--
1,647	--	--	--	17,340	--	--	--	17,070	18,410	20,580	--	--
1,647	--	--	--	17,340	--	--	--	17,070	18,410	20,580	--	--
1,872	--	--	--	19,710	--	--	--	19,400	20,920	21,570	--	--
1,872	--	--	--	19,710	--	--	--	19,400	20,920	22,400	--	--
1,872	--	--	--	19,710	--	--	--	19,400	20,920	22,400	--	--
2,021	--	--	--	21,280	--	--	--	20,950	22,590	23,340	--	--
2,096	--	--	--	22,070	--	--	--	21,720	23,430	25,070	--	--
2,246	--	--	--	23,650	--	--	--	23,270	25,100	26,880	--	--
1,296	--	--	--	13,770	--	--	--	13,510	14,500	15,280	--	--
1,296	--	--	--	13,770	--	--	--	13,510	14,500	15,280	--	--
1,296	--	--	--	13,770	--	--	--	13,510	14,500	15,280	--	--
1,377	--	--	--	14,630	--	--	--	14,350	15,410	15,280	--	--
1,296	--	--	--	13,770	--	--	--	13,510	14,500	16,090	--	--
1,296	--	--	--	13,770	--	--	--	13,510	14,500	16,090	--	--
1,539	--	--	--	16,350	--	--	--	16,040	17,220	17,020	--	--
1,458	--	--	--	15,490	--	--	--	15,200	16,310	17,930	--	--
1,458	--	--	--	15,490	--	--	--	15,200	16,310	17,930	--	--
1,539	--	--	--	16,350	--	--	--	16,040	17,220	18,870	--	--
1,539	--	--	--	16,350	--	--	--	16,040	17,220	18,870	--	--
1,620	--	--	--	17,210	--	--	--	16,880	18,130	19,820	--	--
1,620	--	--	--	17,210	--	--	--	16,880	18,130	19,820	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	20,820	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	21,730	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	21,730	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	21,730	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	20,410	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	22,630	--	--
1,782	--	--	--	18,930	--	--	--	18,570	19,940	22,630	--	--
2,025	--	--	--	21,510	--	--	--	21,110	22,660	23,720	--	--
2,025	--	--	--	21,510	--	--	--	21,110	22,660	24,630	--	--
2,025	--	--	--	21,510	--	--	--	21,110	22,660	24,630	--	--
2,187	--	--	--	23,230	--	--	--	22,790	24,470	25,670	--	--
2,268	--	--	--	24,090	--	--	--	23,640	25,380	27,570	--	--
2,430	--	--	--	25,810	--	--	--	25,330	27,190	29,560	--	--
1,070	--	841	1,001	10,760	--	10,490	9,790	10,630	11,550	11,740	8.500	--
1,070	--	841	1,001	10,760	--	10,490	9,790	10,630	11,550	11,740	8.500	--
1,070	--	841	1,001	10,760	--	10,490	9,790	10,630	11,550	11,740	8.500	--
1,137	--	878	1,019	11,430	--	10,490	9,790	11,300	12,270	11,740	8.500	--
1,070	--	855	1,040	10,760	--	10,490	9,790	10,630	11,550	12,360	8.500	--
1,070	--	855	1,040	10,760	--	10,490	9,790	10,630	11,550	12,360	8.500	--
1,271	--	978	1,129	12,770	--	10,490	9,790	12,630	13,720	13,070	8.500	--
1,204	--	928	1,074	12,100	--	11,810	11,010	11,960	13,000	13,740	8.500	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS C90	12,740
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	R95	13,320
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	T95	13,320
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS C95	13,320
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS C100	13,880
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS RYS100	13,880
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	C110	14,990
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS C110	14,990
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS RYH110	14,990
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS RYS110	14,990
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	P110 SR16	14,990
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	P110	14,990
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	P110 HC	15,710
7 3/4	46.10	45.51	0.595	6.560	6.435	6.473	P110 HP	16,900
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	Q125	16,580
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	Q125 HC	16,710
7 3/4	46.10	45.51	0.595	6.560	6.435	6.473	Q125 HP	17,950
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS 140	18,090
7 3/4	46.10	45.51	0.595	6.560	6.435	6.500	USS V150	19,030
8 5/8	24.00	23.60	0.264	8.097	7.972	--	J55	1,370
8 5/8	24.00	23.60	0.264	8.097	7.972	--	K55	1,370
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS HCK55	1,540
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS GT80S	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	L80	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	L80 HC	1,800
8 5/8	24.00	23.60	0.264	8.097	7.972	--	L80 HP	1,990
8 5/8	24.00	23.60	0.264	8.097	7.972	--	N80	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	N80 HC	1,810
8 5/8	24.00	23.60	0.264	8.097	7.972	--	N80 HP	1,970
8 5/8	24.00	23.60	0.264	8.097	7.972	--	C90	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS C90	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	R95	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	T95	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS C95	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS C100	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS RYS100	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	C110	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS C110	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS RYH110	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS RYS110	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	P110 SR16	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	P110	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	P110 HC	1,860
8 5/8	24.00	23.60	0.264	8.097	7.972	--	P110 HP	2,030
8 5/8	24.00	23.60	0.264	8.097	7.972	--	Q125	1,430

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,204	--	928	1,074	12,100	--	11,810	11,010	11,960	13,000	13,740	8.500	--
1,271	--	978	1,129	12,770	--	12,460	11,620	12,630	13,720	13,070	8.500	--
1,271	--	978	1,129	12,770	--	12,460	11,620	12,630	13,720	14,470	8.500	--
1,271	--	978	1,129	12,770	--	12,460	11,620	12,630	13,720	14,470	8.500	--
1,337	--	1,028	1,185	13,450	--	13,120	12,240	13,290	14,440	15,190	8.500	--
1,337	--	1,028	1,185	13,450	--	13,120	12,240	13,290	14,440	15,190	8.500	--
1,471	--	--	--	14,790	--	--	--	14,620	15,880	15,960	--	--
1,471	--	--	--	14,790	--	--	--	14,620	15,880	16,660	--	--
1,471	--	--	--	14,790	--	--	--	14,620	15,880	16,660	--	--
1,471	--	--	--	14,790	--	--	--	14,620	15,880	16,660	--	--
1,471	--	1,142	1,334	14,790	--	14,430	13,460	14,620	15,880	15,680	8.500	--
1,471	--	1,142	1,334	14,790	--	14,430	13,460	14,620	15,880	17,350	8.500	--
1,471	--	1,142	1,334	14,790	--	14,430	13,460	14,620	15,880	17,350	8.500	--
1,672	--	1,256	1,423	16,810	--	14,430	13,460	16,610	18,050	18,180	8.500	--
1,672	--	1,279	1,462	16,810	--	16,400	15,290	16,610	18,050	18,880	8.500	--
1,672	--	1,279	1,462	16,810	--	16,400	15,290	16,610	18,050	18,880	8.500	--
1,805	--	1,353	1,534	18,150	--	16,400	15,290	17,940	19,490	19,680	8.500	--
1,872	--	1,429	1,628	18,820	--	18,360	17,130	18,610	20,220	21,140	8.500	--
2,006	--	1,529	1,739	20,170	--	19,680	18,350	19,940	21,660	22,660	8.500	--
381	244	--	--	2,950	2,950	--	--	2,940	3,300	2,920	9.625	9.125
381	263	--	--	2,950	2,950	--	--	2,940	3,300	3,700	9.625	9.125
381	263	--	--	2,950	2,950	--	--	2,940	3,300	3,700	9.625	9.125
555	--	--	--	4,290	--	--	--	4,280	4,800	4,510	--	--
555	--	--	--	4,290	--	--	--	4,280	4,800	4,510	--	--
555	--	--	--	4,290	--	--	--	4,280	4,800	4,510	--	--
589	--	--	--	4,550	--	--	--	4,540	5,100	4,510	--	--
555	--	--	--	4,290	--	--	--	4,280	4,800	4,750	--	--
555	--	--	--	4,290	--	--	--	4,280	4,800	4,750	--	--
659	--	--	--	5,090	--	--	--	5,080	5,700	5,020	--	--
624	--	--	--	4,820	--	--	--	4,810	5,400	5,260	--	--
624	--	--	--	4,820	--	--	--	4,810	5,400	5,260	--	--
659	--	--	--	5,090	--	--	--	5,080	5,700	5,020	--	--
659	--	--	--	5,090	--	--	--	5,080	5,700	5,540	--	--
659	--	--	--	5,090	--	--	--	5,080	5,700	5,540	--	--
693	--	--	--	5,360	--	--	--	5,350	6,000	5,820	--	--
693	--	--	--	5,360	--	--	--	5,350	6,000	5,820	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,110	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,380	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,380	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,380	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,020	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,640	--	--
763	--	--	--	5,890	--	--	--	5,880	6,610	6,640	--	--
867	--	--	--	6,700	--	--	--	6,680	7,510	6,960	--	--
867	--	--	--	6,700	--	--	--	6,680	7,510	7,230	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
8 5/8	24.00	23.60	0.264	8.097	7.972	--	Q125 HC	1,880
8 5/8	24.00	23.60	0.264	8.097	7.972	--	Q125 HP	2,040
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS 140	1,430
8 5/8	24.00	23.60	0.264	8.097	7.972	--	USS V150	1,430
8 5/8	28.00	27.04	0.304	8.017	7.892	--	H40	1,610
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS HCK55	2,410
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS GT80S	2,160
8 5/8	28.00	27.04	0.304	8.017	7.892	--	L80	2,160
8 5/8	28.00	27.04	0.304	8.017	7.892	--	L80 HC	2,630
8 5/8	28.00	27.04	0.304	8.017	7.892	--	L80 HP	2,900
8 5/8	28.00	27.04	0.304	8.017	7.892	--	N80	2,160
8 5/8	28.00	27.04	0.304	8.017	7.892	--	N80 HC	2,660
8 5/8	28.00	27.04	0.304	8.017	7.892	--	N80 HP	2,900
8 5/8	28.00	27.04	0.304	8.017	7.892	--	C90	2,200
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS C90	2,200
8 5/8	28.00	27.04	0.304	8.017	7.892	--	R95	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	T95	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS C95	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS C100	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS RYS100	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	C110	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS C110	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS RYH110	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS RYS110	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	P110 SR16	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	P110	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	P110 HC	2,790
8 5/8	28.00	27.04	0.304	8.017	7.892	--	P110 HP	3,030
8 5/8	28.00	27.04	0.304	8.017	7.892	--	Q125	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	Q125 HC	2,810
8 5/8	28.00	27.04	0.304	8.017	7.892	--	Q125 HP	3,060
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS 140	2,210
8 5/8	28.00	27.04	0.304	8.017	7.892	--	USS V150	2,210
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	H40	2,200
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	J55	2,530
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	K55	2,530
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS HCK55	3,740
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS GT80S	3,050
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	L80	3,050
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	L80 HC	3,820
8 5/8	32.00	31.13	0.352	7.921	7.796	7.796	L80 HP	4,170
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	N80	3,050
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	N80 HC	3,890
8 5/8	32.00	31.13	0.352	7.921	7.796	7.796	N80 HP	4,230
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	C90	3,210

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter					
				Pipe Body	API Historical			Lame' - Von Mises			Regular Coupling	Special Clr Coupling				
Joint Strength, 1,000 lbs					Threaded & Coupled			Open End	Capped End							
Yield	Threaded and Coupled				STC	LTC	BTC									
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.				
867	--	--	--	6,700	--	--	--	6,680	7,510	7,230	--	--				
936	--	--	--	7,230	--	--	--	7,220	8,110	7,530	--	--				
971	--	--	--	7,500	--	--	--	7,490	8,410	8,090	--	--				
1,040	--	--	--	8,030	--	--	--	8,020	9,010	8,670	--	--				
318	233	--	--	2,470	2,470	--	--	2,460	2,750	2,680	9.625	--				
437	335	377	599	3,390	3,390	3,390	3,390	3,380	3,790	4,270	9.625	9.125				
636	--	--	--	4,930	--	--	--	4,920	5,510	5,210	--	--				
636	--	--	--	4,930	--	--	--	4,920	5,510	5,210	--	--				
636	--	--	--	4,930	--	--	--	4,920	5,510	5,210	--	--				
675	--	--	--	5,240	--	--	--	5,230	5,850	5,210	--	--				
636	--	--	--	4,930	--	--	--	4,920	5,510	5,490	--	--				
636	--	--	--	4,930	--	--	--	4,920	5,510	5,490	--	--				
755	--	--	--	5,860	--	--	--	5,850	6,540	5,800	--	--				
715	--	--	--	5,550	--	--	--	5,540	6,200	6,080	--	--				
715	--	--	--	5,550	--	--	--	5,540	6,200	6,080	--	--				
755	--	--	--	5,860	--	--	--	5,850	6,540	5,800	--	--				
755	--	--	--	5,860	--	--	--	5,850	6,540	6,400	--	--				
755	--	--	--	5,860	--	--	--	5,850	6,540	6,400	--	--				
795	--	--	--	6,170	--	--	--	6,150	6,890	6,720	--	--				
795	--	--	--	6,170	--	--	--	6,150	6,890	6,720	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	7,060	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	7,370	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	7,370	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	7,370	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	6,960	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	7,680	--	--				
874	--	--	--	6,790	--	--	--	6,770	7,570	7,680	--	--				
993	--	--	--	7,710	--	--	--	7,690	8,610	8,050	--	--				
993	--	--	--	7,710	--	--	--	7,690	8,610	8,360	--	--				
993	--	--	--	7,710	--	--	--	7,690	8,610	8,360	--	--				
1,073	--	--	--	8,330	--	--	--	8,310	9,300	8,710	--	--				
1,113	--	--	--	8,640	--	--	--	8,610	9,640	9,350	--	--				
1,192	--	--	--	9,250	--	--	--	9,230	10,330	10,030	--	--				
366	279	--	--	2,860	2,860	--	--	2,850	3,170	3,110	9.625	--				
503	372	417	579	3,930	3,930	3,930	3,930	3,920	4,360	3,920	9.625	9.125				
503	402	452	690	3,930	3,930	3,930	3,930	3,920	4,360	4,960	9.625	9.125				
503	402	452	690	3,930	3,930	3,930	3,930	3,920	4,360	4,960	9.625	9.125				
732	--	--	--	5,710	--	--	--	5,700	6,350	6,060	--	--				
732	--	--	--	5,710	--	--	--	5,700	6,350	6,060	--	--				
732	--	--	--	5,710	--	--	--	5,700	6,350	6,060	--	--				
778	--	--	--	6,070	--	--	--	6,050	6,740	6,060	--	--				
732	--	--	--	5,710	--	--	--	5,700	6,350	6,380	--	--				
732	--	--	--	5,710	--	--	--	5,700	6,350	6,380	--	--				
869	--	--	--	6,780	--	--	--	6,760	7,540	6,750	--	--				
823	--	--	--	6,430	--	--	--	6,410	7,140	7,080	--	--				

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS C90	3,210
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	R95	3,280
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	T95	3,280
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS C95	3,280
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS C100	3,340
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS RYS100	3,340
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	C110	3,420
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS C110	3,420
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS RYH110	3,420
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS RYS110	3,420
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	P110 SR16	3,420
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	P110	3,420
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	P110 HC	4,170
8 5/8	32.00	31.13	0.352	7.921	7.796	7.796	P110 HP	4,530
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	Q125	3,470
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	Q125 HC	4,230
8 5/8	32.00	31.13	0.352	7.921	7.796	7.796	Q125 HP	4,590
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS 140	3,470
8 5/8	32.00	31.13	0.352	7.921	7.796	7.875	USS V150	3,470
8 5/8	36.00	35.17	0.400	7.825	7.700	--	J55	3,450
8 5/8	36.00	35.17	0.400	7.825	7.700	--	K55	3,450
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS HCK55	4,830
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS GT80S	4,100
8 5/8	36.00	35.17	0.400	7.825	7.700	--	L80	4,100
8 5/8	36.00	35.17	0.400	7.825	7.700	--	L80 HC	5,110
8 5/8	36.00	35.17	0.400	7.825	7.700	--	L80 HP	5,530
8 5/8	36.00	35.17	0.400	7.825	7.700	--	N80	4,100
8 5/8	36.00	35.17	0.400	7.825	7.700	--	N80 HC	5,240
8 5/8	36.00	35.17	0.400	7.825	7.700	--	N80 HP	5,700
8 5/8	36.00	35.17	0.400	7.825	7.700	--	C90	4,250
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS C90	4,250
8 5/8	36.00	35.17	0.400	7.825	7.700	--	R95	4,350
8 5/8	36.00	35.17	0.400	7.825	7.700	--	T95	4,350
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS C95	4,350
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS C100	4,480
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS RYS100	4,480
8 5/8	36.00	35.17	0.400	7.825	7.700	--	C110	4,690
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS C110	4,690
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS RYH110	4,690
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS RYS110	4,690
8 5/8	36.00	35.17	0.400	7.825	7.700	--	P110 SR16	4,690
8 5/8	36.00	35.17	0.400	7.825	7.700	--	P110	4,690
8 5/8	36.00	35.17	0.400	7.825	7.700	--	P110 HC	5,810
8 5/8	36.00	35.17	0.400	7.825	7.700	--	P110 HP	6,300
8 5/8	36.00	35.17	0.400	7.825	7.700	--	Q125	4,930

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
823	--	--	--	6,430	--	--	--	6,410	7,140	7,080	--	--			
869	--	--	--	6,780	--	--	--	6,760	7,540	6,750	--	--			
869	--	--	--	6,780	--	--	--	6,760	7,540	7,450	--	--			
869	--	--	--	6,780	--	--	--	6,760	7,540	7,450	--	--			
915	--	--	--	7,140	--	--	--	7,120	7,930	7,820	--	--			
915	--	--	--	7,140	--	--	--	7,120	7,930	7,820	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,220	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,580	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,580	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,580	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,100	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,930	--	--			
1,006	--	--	--	7,860	--	--	--	7,830	8,730	8,930	--	--			
1,144	--	--	--	8,930	--	--	--	8,900	9,920	9,360	--	--			
1,144	--	--	--	8,930	--	--	--	8,900	9,920	9,720	--	--			
1,144	--	--	--	8,930	--	--	--	8,900	9,920	9,720	--	--			
1,235	--	--	--	9,640	--	--	--	9,610	10,710	10,130	--	--			
1,281	--	--	--	10,000	--	--	--	9,970	11,110	10,880	--	--			
1,372	--	--	--	10,710	--	--	--	10,680	11,900	11,670	--	--			
568	434	486	654	4,460	4,460	4,460	4,460	4,450	4,930	4,470	9.625	9.125			
568	468	526	780	4,460	4,460	4,460	4,460	4,450	4,930	5,660	9.625	9.125			
568	468	526	780	4,460	4,460	4,460	4,460	4,450	4,930	5,660	9.625	9.125			
827	--	678	864	6,490	--	6,490	6,490	6,470	7,180	6,920	9.625	9.125			
827	--	678	864	6,490	--	6,490	6,490	6,470	7,180	6,920	9.625	9.125			
827	--	678	864	6,490	--	6,490	6,490	6,470	7,180	6,920	9.625	9.125			
879	--	708	880	6,900	--	6,900	6,900	6,870	7,620	6,920	9.625	9.125			
827	--	688	895	6,490	--	6,490	6,490	6,470	7,180	7,280	9.625	9.125			
827	--	688	895	6,490	--	6,490	6,490	6,470	7,180	7,280	9.625	9.125			
982	--	789	976	7,710	--	7,710	7,710	7,680	8,520	7,700	9.625	9.125			
930	--	749	928	7,300	--	7,300	7,300	7,270	8,070	8,080	9.625	9.125			
930	--	749	928	7,300	--	7,300	7,300	7,270	8,070	8,080	9.625	9.125			
982	--	789	976	7,710	--	7,710	7,710	7,680	8,520	7,700	9.625	9.125			
982	--	789	976	7,710	--	7,710	7,710	7,680	8,520	8,500	9.625	9.125			
982	--	789	976	7,710	--	7,710	7,710	7,680	8,520	8,500	9.625	9.125			
1,034	--	830	1,025	8,120	--	8,120	8,120	8,080	8,970	8,930	9.625	9.125			
1,034	--	830	1,025	8,120	--	8,120	8,120	8,080	8,970	8,930	9.625	9.125			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	9,380	--	--			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	9,790	--	--			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	9,790	--	--			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	9,790	--	--			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	9,240	--	--			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	10,200	--	--			
1,137	--	--	--	8,930	--	--	--	8,890	9,870	10,200	--	--			
1,292	--	--	--	10,150	--	--	--	10,100	11,210	10,690	--	--			
1,292	--	--	--	10,150	--	--	--	10,100	11,210	11,100	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
8 5/8	36.00	35.17	0.400	7.825	7.700	--	Q125 HC	5,940
8 5/8	36.00	35.17	0.400	7.825	7.700	--	Q125 HP	6,430
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS 140	5,090
8 5/8	36.00	35.17	0.400	7.825	7.700	--	USS V150	5,140
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	J55	4,400
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	K55	4,400
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS GT80S	5,520
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	L80	5,520
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	L80 HC	6,480
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	L80 HP	6,950
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	N80	5,520
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	N80 HC	6,700
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	N80 HP	7,280
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	C90	5,870
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS C90	5,870
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	R95	6,020
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	T95	6,020
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS C95	6,020
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS C100	6,160
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS RYS100	6,160
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	C110	6,390
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS C110	6,390
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS RYH110	6,390
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS RYS110	6,390
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	P110 SR16	6,390
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	P110	6,390
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	P110 HC	7,690
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	P110 HP	8,320
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	Q125	6,630
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	Q125 HC	7,930
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	Q125 HP	8,580
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS 140	6,830
8 5/8	40.00	39.33	0.450	7.725	7.600	7.625	USS V150	7,030
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS GT80S	6,950
8 5/8	44.00	43.43	0.500	7.625	7.500	--	L80	6,950
8 5/8	44.00	43.43	0.500	7.625	7.500	--	L80 HC	7,810
8 5/8	44.00	43.43	0.500	7.625	7.500	--	L80 HP	8,310
8 5/8	44.00	43.43	0.500	7.625	7.500	--	N80	6,950
8 5/8	44.00	43.43	0.500	7.625	7.500	--	N80 HC	8,120
8 5/8	44.00	43.43	0.500	7.625	7.500	--	N80 HP	8,830
8 5/8	44.00	43.43	0.500	7.625	7.500	--	C90	7,490
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS C90	7,490
8 5/8	44.00	43.43	0.500	7.625	7.500	--	R95	7,740
8 5/8	44.00	43.43	0.500	7.625	7.500	--	T95	7,740
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS C95	7,740

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,292	--	--	--	10,150	--	--	--	10,100	11,210	11,100	--	--		
1,395	--	--	--	10,960	--	--	--	10,910	12,110	11,570	--	--		
1,447	--	--	--	11,360	--	--	--	11,320	12,560	12,430	--	--		
1,550	--	--	--	12,170	--	--	--	12,120	13,450	13,320	--	--		
636	--	--	--	5,020	--	--	--	5,000	5,520	5,050	--	--		
636	--	--	--	5,020	--	--	--	5,000	5,520	6,400	--	--		
925	--	776	966	7,310	--	7,310	7,310	7,270	8,030	7,820	9.625	9.125		
925	--	776	966	7,310	--	7,310	7,310	7,270	8,030	7,820	9.625	9.125		
925	--	776	966	7,310	--	7,310	7,310	7,270	8,030	7,820	9.625	9.125		
982	--	811	984	7,770	--	7,770	7,770	7,720	8,530	7,820	9.625	9.125		
925	--	788	1,001	7,310	--	7,310	7,310	7,270	8,030	8,240	9.625	9.125		
925	--	788	1,001	7,310	--	7,310	7,310	7,270	8,030	8,240	9.625	9.125		
1,098	--	904	1,092	8,680	--	8,680	8,680	8,630	9,540	8,710	9.625	9.125		
1,040	--	858	1,038	8,220	--	8,220	8,220	8,180	9,030	9,140	9.625	9.125		
1,040	--	858	1,038	8,220	--	8,220	8,220	8,180	9,030	9,140	9.625	9.125		
1,098	--	904	1,092	8,680	--	8,680	8,680	8,630	9,540	8,710	9.625	9.125		
1,098	--	904	1,092	8,680	--	8,680	8,680	8,630	9,540	9,620	9.625	9.125		
1,098	--	904	1,092	8,680	--	8,680	8,680	8,630	9,540	9,620	9.625	9.125		
1,156	--	950	1,146	9,140	--	9,140	9,140	9,090	10,040	10,110	9.625	9.125		
1,156	--	950	1,146	9,140	--	9,140	9,140	9,090	10,040	10,110	9.625	9.125		
1,271	--	--	--	10,050	--	--	--	10,000	11,040	10,620	--	--		
1,271	--	--	--	10,050	--	--	--	10,000	11,040	11,080	--	--		
1,271	--	--	--	10,050	--	--	--	10,000	11,040	11,080	--	--		
1,271	--	--	--	10,050	--	--	--	10,000	11,040	11,080	--	--		
1,271	--	1,055	1,288	10,050	--	10,050	10,050	10,000	11,040	10,450	9.625	9.125		
1,271	--	1,055	1,288	10,050	--	10,050	10,050	10,000	11,040	11,540	9.625	9.125		
1,271	--	1,055	1,288	10,050	--	10,050	10,050	10,000	11,040	11,540	9.625	9.125		
1,445	--	1,170	1,379	11,420	--	11,420	11,420	11,360	12,550	12,090	9.625	9.125		
1,445	--	1,182	1,415	11,420	--	11,420	11,420	11,360	12,550	12,560	9.625	--		
1,445	--	1,182	1,415	11,420	--	11,420	11,420	11,360	12,550	12,560	9.625	--		
1,560	--	1,263	1,487	12,330	--	12,330	12,330	12,270	13,550	13,090	9.625	--		
1,618	--	1,321	1,576	12,790	--	12,790	12,790	12,720	14,050	14,060	9.625	--		
1,734	--	1,414	1,683	13,700	--	13,700	13,700	13,630	15,060	15,070	9.625	--		
1,021	--	874	1,066	8,130	--	8,130	8,130	8,070	8,880	8,740	9.625	9.125		
1,021	--	874	1,066	8,130	--	8,130	8,130	8,070	8,880	8,740	9.625	9.125		
1,021	--	874	1,066	8,130	--	8,130	8,130	8,070	8,880	8,740	9.625	9.125		
1,085	--	913	1,087	8,630	--	8,630	8,630	8,580	9,430	8,740	9.625	9.125		
1,021	--	887	1,105	8,130	--	8,130	8,130	8,070	8,880	9,200	9.625	9.125		
1,021	--	887	1,105	8,130	--	8,130	8,130	8,070	8,880	9,200	9.625	9.125		
1,212	--	1,017	1,206	9,650	--	9,650	9,650	9,590	10,540	9,730	9.625	9.125		
1,149	--	965	1,146	9,140	--	9,140	9,140	9,080	9,980	10,210	9.625	9.125		
1,149	--	965	1,146	9,140	--	9,140	9,140	9,080	9,980	10,210	9.625	9.125		
1,212	--	1,017	1,206	9,650	--	9,650	9,650	9,590	10,540	9,730	9.625	9.125		
1,212	--	1,017	1,206	9,650	--	9,650	9,650	9,590	10,540	10,750	9.625	9.125		
1,212	--	1,017	1,206	9,650	--	9,650	9,650	9,590	10,540	10,750	9.625	9.125		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS C100	7,980
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS RYS100	7,980
8 5/8	44.00	43.43	0.500	7.625	7.500	--	C110	8,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS C110	8,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS RYH110	8,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS RYS110	8,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	P110 SR16	8,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	P110	8,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	P110 HC	9,640
8 5/8	44.00	43.43	0.500	7.625	7.500	--	P110 HP	10,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	Q125	8,980
8 5/8	44.00	43.43	0.500	7.625	7.500	--	Q125 HC	10,040
8 5/8	44.00	43.43	0.500	7.625	7.500	--	Q125 HP	10,840
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS 140	9,420
8 5/8	44.00	43.43	0.500	7.625	7.500	--	USS V150	9,640
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS GT80S	8,580
8 5/8	49.00	48.04	0.557	7.511	7.386	--	L80	8,580
8 5/8	49.00	48.04	0.557	7.511	7.386	--	L80 HC	9,270
8 5/8	49.00	48.04	0.557	7.511	7.386	--	L80 HP	9,790
8 5/8	49.00	48.04	0.557	7.511	7.386	--	N80	8,580
8 5/8	49.00	48.04	0.557	7.511	7.386	--	N80 HC	9,680
8 5/8	49.00	48.04	0.557	7.511	7.386	--	N80 HP	10,520
8 5/8	49.00	48.04	0.557	7.511	7.386	--	C90	9,340
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS C90	9,340
8 5/8	49.00	48.04	0.557	7.511	7.386	--	R95	9,710
8 5/8	49.00	48.04	0.557	7.511	7.386	--	T95	9,710
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS C95	9,710
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS C100	10,070
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS RYS100	10,070
8 5/8	49.00	48.04	0.557	7.511	7.386	--	C110	10,740
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS C110	10,740
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS RYH110	10,740
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS RYS110	10,740
8 5/8	49.00	48.04	0.557	7.511	7.386	--	P110 SR16	10,740
8 5/8	49.00	48.04	0.557	7.511	7.386	--	P110	10,740
8 5/8	49.00	48.04	0.557	7.511	7.386	--	P110 HC	11,850
8 5/8	49.00	48.04	0.557	7.511	7.386	--	P110 HP	12,780
8 5/8	49.00	48.04	0.557	7.511	7.386	--	Q125	11,660
8 5/8	49.00	48.04	0.557	7.511	7.386	--	Q125 HC	12,450
8 5/8	49.00	48.04	0.557	7.511	7.386	--	Q125 HP	13,410
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS 140	12,480
8 5/8	49.00	48.04	0.557	7.511	7.386	--	USS V150	12,950
8 3/4	49.70	48.78	0.557	7.636	7.511	--	K55	6,290
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS GT80S	8,340
8 3/4	49.70	48.78	0.557	7.636	7.511	--	L80	8,340

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,276	--	1,069	1,265	10,160	--	10,160	10,160	10,090	11,090	11,290	9.625	9.125			
1,276	--	1,069	1,265	10,160	--	10,160	10,160	10,090	11,090	11,290	9.625	9.125			
1,404	--	--	--	11,170	--	--	--	11,100	12,200	11,860	--	--			
1,404	--	--	--	11,170	--	--	--	11,100	12,200	12,380	--	--			
1,404	--	--	--	11,170	--	--	--	11,100	12,200	12,380	--	--			
1,404	--	--	--	11,170	--	--	--	11,100	12,200	12,380	--	--			
1,404	--	1,186	1,423	11,170	--	11,170	11,170	11,100	12,200	11,670	9.625	9.125			
1,404	--	1,186	1,423	11,170	--	11,170	11,170	11,100	12,200	12,890	9.625	9.125			
1,404	--	1,186	1,423	11,170	--	11,170	11,170	11,100	12,200	12,890	9.625	9.125			
1,595	--	1,317	1,523	12,700	--	12,700	12,700	12,610	13,870	13,510	9.625	9.125			
1,595	--	1,330	1,562	12,700	--	12,700	12,700	12,610	13,870	14,030	9.625	--			
1,595	--	1,330	1,562	12,700	--	12,700	12,700	12,610	13,870	14,030	9.625	--			
1,723	--	1,421	1,642	13,710	--	13,710	13,710	13,620	14,980	14,620	9.625	--			
1,787	--	1,486	1,740	14,220	--	14,220	14,220	14,130	15,530	15,710	9.625	--			
1,914	--	1,591	1,859	15,230	--	15,230	15,230	15,140	16,640	16,840	9.625	--			
1,129	--	983	1,180	9,030	--	9,030	9,030	8,960	9,830	9,760	9.625	9.125			
1,129	--	983	1,180	9,030	--	9,030	9,030	8,960	9,830	9,760	9.625	9.125			
1,129	--	983	1,180	9,030	--	9,030	9,030	8,960	9,830	9,760	9.625	9.125			
1,200	--	1,027	1,202	9,600	--	9,600	9,600	9,520	10,440	9,760	9.625	9.125			
1,129	--	997	1,222	9,030	--	9,030	9,030	8,960	9,830	10,280	9.625	9.125			
1,129	--	997	1,222	9,030	--	9,030	9,030	8,960	9,830	10,280	9.625	9.125			
1,341	--	1,144	1,334	10,730	--	10,510	9,750	10,640	11,670	10,870	9.625	9.125			
1,271	--	1,085	1,268	10,160	--	10,160	10,160	10,080	11,060	11,420	9.625	9.125			
1,271	--	1,085	1,268	10,160	--	10,160	10,160	10,080	11,060	11,420	9.625	9.125			
1,341	--	1,144	1,334	10,730	--	10,730	10,730	10,640	11,670	10,870	9.625	9.125			
1,341	--	1,144	1,334	10,730	--	10,730	10,730	10,640	11,670	12,020	9.625	9.125			
1,341	--	1,144	1,334	10,730	--	10,730	10,730	10,640	11,670	12,020	9.625	9.125			
1,412	--	1,203	1,400	11,290	--	11,290	11,290	11,200	12,280	12,620	9.625	9.125			
1,412	--	1,203	1,400	11,290	--	11,290	11,290	11,200	12,280	12,620	9.625	9.125			
1,553	--	--	--	12,420	--	--	--	12,320	13,510	13,260	--	--			
1,553	--	--	--	12,420	--	--	--	12,320	13,510	13,840	--	--			
1,553	--	--	--	12,420	--	--	--	12,320	13,510	13,840	--	--			
1,553	--	--	--	12,420	--	--	--	12,320	13,510	13,840	--	--			
1,553	--	1,335	1,574	12,420	--	12,420	12,420	12,320	13,510	13,040	9.625	9.125			
1,553	--	1,335	1,574	12,420	--	12,420	12,420	12,320	13,510	14,420	9.625	9.125			
1,553	--	1,335	1,574	12,420	--	12,420	12,420	12,320	13,510	14,420	9.625	9.125			
1,765	--	1,481	1,685	14,120	--	14,120	13,410	14,000	15,360	15,110	9.625	9.125			
1,765	--	1,496	1,728	14,120	--	14,120	14,120	14,000	15,360	15,690	9.625	--			
1,765	--	1,496	1,728	14,120	--	14,120	14,120	14,000	15,360	15,690	9.625	--			
1,906	--	1,599	1,817	15,250	--	15,250	15,230	15,120	16,580	16,350	9.625	--			
1,977	--	1,672	1,925	15,810	--	15,810	15,810	15,680	17,200	17,560	9.625	--			
2,118	--	1,789	2,056	16,940	--	16,940	16,940	16,800	18,430	18,830	9.625	--			
789	596	670	953	6,120	6,120	6,120	6,120	6,070	6,670	7,850	9.625	--			
1,147	--	863	1,055	8,910	--	8,910	8,910	8,840	9,700	9,620	9.625	--			
1,147	--	863	1,055	8,910	--	8,910	8,910	8,840	9,700	9,620	9.625	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
8 3/4	49.70	48.78	0.557	7.636	7.511	--	L80 HC	9,070
8 3/4	49.70	48.78	0.557	7.636	7.511	--	L80 HP	9,590
8 3/4	49.70	48.78	0.557	7.636	7.511	--	N80	8,340
8 3/4	49.70	48.78	0.557	7.636	7.511	--	N80 HC	9,470
8 3/4	49.70	48.78	0.557	7.636	7.511	--	N80 HP	10,290
8 3/4	49.70	48.78	0.557	7.636	7.511	--	C90	9,080
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS C90	9,080
8 3/4	49.70	48.78	0.557	7.636	7.511	--	R95	9,430
8 3/4	49.70	48.78	0.557	7.636	7.511	--	T95	9,430
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS C95	9,430
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS C100	9,770
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS RYS100	9,770
8 3/4	49.70	48.78	0.557	7.636	7.511	--	C110	10,410
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS C110	10,410
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS RYH110	10,410
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS RYS110	10,410
8 3/4	49.70	48.78	0.557	7.636	7.511	--	P110 SR16	10,410
8 3/4	49.70	48.78	0.557	7.636	7.511	--	P110	10,410
8 3/4	49.70	48.78	0.557	7.636	7.511	--	P110 HC	11,550
8 3/4	49.70	48.78	0.557	7.636	7.511	--	P110 HP	12,450
8 3/4	49.70	48.78	0.557	7.636	7.511	--	Q125	11,280
8 3/4	49.70	48.78	0.557	7.636	7.511	--	Q125 HC	12,120
8 3/4	49.70	48.78	0.557	7.636	7.511	--	Q125 HP	13,060
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS 140	12,040
8 3/4	49.70	48.78	0.557	7.636	7.511	--	USS V150	12,480
9 5/8	32.30	31.06	0.312	9.001	8.845	--	H40	1,370
9 5/8	36.00	34.89	0.352	8.921	8.765	--	H40	1,720
9 5/8	36.00	34.89	0.352	8.921	8.765	--	J55	2,020
9 5/8	36.00	34.89	0.352	8.921	8.765	--	K55	2,020
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS HCK55	2,690
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS GT80S	2,370
9 5/8	36.00	34.89	0.352	8.921	8.765	--	L80	2,370
9 5/8	36.00	34.89	0.352	8.921	8.765	--	L80 HC	2,900
9 5/8	36.00	34.89	0.352	8.921	8.765	--	L80 HP	3,190
9 5/8	36.00	34.89	0.352	8.921	8.765	--	N80	2,370
9 5/8	36.00	34.89	0.352	8.921	8.765	--	N80 HC	2,940
9 5/8	36.00	34.89	0.352	8.921	8.765	--	N80 HP	3,200
9 5/8	36.00	34.89	0.352	8.921	8.765	--	C90	2,440
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS C90	2,440
9 5/8	36.00	34.89	0.352	8.921	8.765	--	R95	2,470
9 5/8	36.00	34.89	0.352	8.921	8.765	--	T95	2,470
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS C95	2,470
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS C100	2,470
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS RYS100	2,470
9 5/8	36.00	34.89	0.352	8.921	8.765	--	C110	2,480

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,147	--	863	1,055	8,910	--	8,910	8,910	8,840	9,700	9,620	9.625	--		
1,219	--	902	1,076	9,460	--	9,460	9,460	9,390	10,300	9,620	9.625	--		
1,147	--	876	1,094	8,910	--	8,910	8,910	8,840	9,700	10,120	9.625	--		
1,147	--	876	1,094	8,910	--	8,910	8,910	8,840	9,700	10,120	9.625	--		
1,362	--	1,005	1,193	10,570	--	10,510	9,750	10,490	11,510	10,710	9.625	--		
1,290	--	953	1,135	10,020	--	10,020	10,020	9,940	10,910	11,250	9.625	--		
1,290	--	953	1,135	10,020	--	10,020	10,020	9,940	10,910	11,250	9.625	--		
1,362	--	1,005	1,193	10,570	--	10,570	10,570	10,490	11,510	10,710	9.625	--		
1,362	--	1,005	1,193	10,570	--	10,570	10,570	10,490	11,510	11,840	9.625	--		
1,362	--	1,005	1,193	10,570	--	10,570	10,570	10,490	11,510	11,840	9.625	--		
1,434	--	1,056	1,252	11,130	--	11,130	11,130	11,040	12,120	12,430	9.625	--		
1,434	--	1,056	1,252	11,130	--	11,130	11,130	11,040	12,120	12,430	9.625	--		
1,577	--	--	--	12,240	--	--	--	12,150	13,330	13,060	--	--		
1,577	--	--	--	12,240	--	--	--	12,150	13,330	13,630	--	--		
1,577	--	--	--	12,240	--	--	--	12,150	13,330	13,630	--	--		
1,577	--	--	--	12,240	--	--	--	12,150	13,330	13,630	--	--		
1,577	--	1,172	1,408	12,240	--	12,240	12,240	12,150	13,330	12,840	9.625	--		
1,577	--	1,172	1,408	12,240	--	12,240	12,240	12,150	13,330	14,200	9.625	--		
1,577	--	1,172	1,408	12,240	--	12,240	12,240	12,150	13,330	14,200	9.625	--		
1,792	--	1,301	1,508	13,910	--	13,910	13,410	13,810	15,150	14,880	9.625	--		
1,792	--	1,314	1,546	13,910	--	13,910	13,910	13,810	15,150	15,450	9.625	--		
1,792	--	1,314	1,546	13,910	--	13,910	13,910	13,810	15,150	15,450	9.625	--		
1,935	--	1,404	1,625	15,030	--	15,030	15,030	14,910	16,360	16,100	9.625	--		
2,007	--	1,468	1,722	15,580	--	15,580	15,580	15,460	16,970	17,300	9.625	--		
2,151	--	1,571	1,840	16,700	--	16,700	16,700	16,570	18,180	18,540	9.625	--		
365	254	--	--	2,270	2,270	--	--	2,260	2,540	2,460	10.625	--		
410	294	--	--	2,560	2,560	--	--	2,550	2,850	2,780	10.625	--		
564	394	453	639	3,520	3,520	3,520	3,520	3,510	3,920	3,500	10.625	10.125		
564	423	489	755	3,520	3,520	3,520	3,520	3,510	3,920	4,430	10.625	10.125		
564	423	489	755	3,520	3,520	3,520	3,520	3,510	3,920	4,430	10.625	10.125		
820	--	--	--	5,120	--	--	--	5,110	5,710	5,410	--	--		
820	--	--	--	5,120	--	--	--	5,110	5,710	5,410	--	--		
820	--	--	--	5,120	--	--	--	5,110	5,710	5,410	--	--		
872	--	--	--	5,440	--	--	--	5,430	6,070	5,410	--	--		
820	--	--	--	5,120	--	--	--	5,110	5,710	5,700	--	--		
820	--	--	--	5,120	--	--	--	5,110	5,710	5,700	--	--		
974	--	--	--	6,080	--	--	--	6,060	6,780	6,030	--	--		
923	--	--	--	5,760	--	--	--	5,750	6,420	6,320	--	--		
923	--	--	--	5,760	--	--	--	5,750	6,420	6,320	--	--		
974	--	--	--	6,080	--	--	--	6,060	6,780	6,030	--	--		
974	--	--	--	6,080	--	--	--	6,060	6,780	6,650	--	--		
974	--	--	--	6,080	--	--	--	6,060	6,780	6,650	--	--		
1,025	--	--	--	6,400	--	--	--	6,380	7,140	6,980	--	--		
1,025	--	--	--	6,400	--	--	--	6,380	7,140	6,980	--	--		
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,340	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS C110	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS RYH110	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS RYS110	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	P110 SR16	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	P110	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	P110 HC	3,090
9 5/8	36.00	34.89	0.352	8.921	8.765	--	P110 HP	3,360
9 5/8	36.00	34.89	0.352	8.921	8.765	--	Q125	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	Q125 HC	3,120
9 5/8	36.00	34.89	0.352	8.921	8.765	--	Q125 HP	3,390
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS 140	2,480
9 5/8	36.00	34.89	0.352	8.921	8.765	--	USS V150	2,480
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	J55	2,570
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	K55	2,570
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS HCK55	3,810
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS GT80S	3,090
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	L80	3,090
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	L80 HC	3,870
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	L80 HP	4,230
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	N80	3,090
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	N80 HC	3,940
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	N80 HP	4,290
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	C90	3,250
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS C90	3,250
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	R95	3,320
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	T95	3,320
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS C95	3,320
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS C100	3,380
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS RYS100	3,380
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	C110	3,470
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS C110	3,470
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS RYH110	3,470
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS RYS110	3,470
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	P110 SR16	3,470
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	P110	3,470
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	P110 HC	4,230
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	P110 HP	4,590
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	Q125	3,530
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	Q125 HC	4,300
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	Q125 HP	4,660
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS 140	3,530
9 5/8	40.00	38.97	0.395	8.835	8.679	8.750	USS V150	3,530
9 5/8	43.50	42.73	0.435	8.755	8.599	--	J55	3,250
9 5/8	43.50	42.73	0.435	8.755	8.599	--	K55	3,250
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS GT80S	3,810

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,660	--	--			
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,660	--	--			
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,660	--	--			
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,230	--	--			
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,980	--	--			
1,128	--	--	--	7,040	--	--	--	7,020	7,850	7,980	--	--			
1,282	--	--	--	8,000	--	--	--	7,980	8,920	8,360	--	--			
1,282	--	--	--	8,000	--	--	--	7,980	8,920	8,680	--	--			
1,282	--	--	--	8,000	--	--	--	7,980	8,920	8,680	--	--			
1,384	--	--	--	8,640	--	--	--	8,620	9,630	9,050	--	--			
1,436	--	--	--	8,960	--	--	--	8,940	9,990	9,720	--	--			
1,538	--	--	--	9,600	--	--	--	9,580	10,700	10,420	--	--			
630	452	520	714	3,950	3,950	3,950	3,950	3,940	4,390	3,950	10.625	10.125			
630	486	561	843	3,950	3,950	3,950	3,950	3,940	4,390	5,000	10.625	10.125			
630	486	561	843	3,950	3,950	3,950	3,950	3,940	4,390	5,000	10.625	10.125			
916	--	727	947	5,750	--	5,750	5,750	5,730	6,380	6,100	10.625	10.125			
916	--	727	947	5,750	--	5,750	5,750	5,730	6,380	6,100	10.625	10.125			
916	--	727	947	5,750	--	5,750	5,750	5,730	6,380	6,100	10.625	10.125			
974	--	760	968	6,110	--	6,110	6,110	6,090	6,780	6,100	10.625	10.125			
916	--	737	979	5,750	--	5,750	5,750	5,730	6,380	6,430	10.625	10.125			
916	--	737	979	5,750	--	5,750	5,750	5,730	6,380	6,430	10.625	10.125			
1,088	--	847	1,074	6,830	--	6,830	6,830	6,810	7,580	6,800	10.625	10.125			
1,031	--	804	1,021	6,470	--	6,470	6,470	6,450	7,180	7,120	10.625	10.125			
1,031	--	804	1,021	6,470	--	6,470	6,470	6,450	7,180	7,120	10.625	10.125			
1,088	--	847	1,074	6,830	--	6,830	6,830	6,810	7,580	6,800	10.625	10.125			
1,088	--	847	1,074	6,830	--	6,830	6,830	6,810	7,580	7,500	10.625	10.125			
1,088	--	847	1,074	6,830	--	6,830	6,830	6,810	7,580	7,500	10.625	10.125			
1,145	--	870	1,062	7,190	--	7,190	7,190	7,170	7,980	7,160	10.625	10.125			
1,145	--	870	1,062	7,190	--	7,190	7,190	7,170	7,980	7,160	10.625	10.125			
1,260	--	--	--	7,910	--	--	--	7,880	8,770	8,280	--	--			
1,260	--	--	--	7,910	--	--	--	7,880	8,770	8,640	--	--			
1,260	--	--	--	7,910	--	--	--	7,880	8,770	8,640	--	--			
1,260	--	--	--	7,910	--	--	--	7,880	8,770	8,640	--	--			
1,260	--	988	1,266	7,910	--	7,910	7,910	7,880	8,770	8,150	10.625	10.125			
1,260	--	988	1,266	7,910	--	7,910	7,910	7,880	8,770	9,000	10.625	10.125			
1,260	--	988	1,266	7,910	--	7,910	7,910	7,880	8,770	9,000	10.625	10.125			
1,432	--	1,098	1,360	8,990	--	8,990	8,990	8,960	9,970	9,430	10.625	10.125			
1,432	--	1,108	1,393	8,990	--	8,990	8,990	8,960	9,970	9,790	10.625	--			
1,432	--	1,108	1,393	8,990	--	8,990	8,990	8,960	9,970	9,790	10.625	--			
1,546	--	1,185	1,467	9,710	--	9,710	9,710	9,670	10,770	10,200	10.625	--			
1,604	--	1,239	1,552	10,070	--	10,070	10,070	10,030	11,170	10,960	10.625	--			
1,718	--	1,326	1,658	10,780	--	10,780	10,780	10,750	11,960	11,750	10.625	--			
691	--	--	--	4,350	--	--	--	4,340	4,810	4,360	--	--			
691	--	--	--	4,350	--	--	--	4,340	4,810	5,520	--	--			
1,005	--	813	1,038	6,330	--	6,330	6,330	6,310	7,000	6,740	10.625	10.125			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 5/8	43.50	42.73	0.435	8.755	8.599	--	L80	3,810
9 5/8	43.50	42.73	0.435	8.755	8.599	--	L80 HC	4,830
9 5/8	43.50	42.73	0.435	8.755	8.599	--	L80 HP	5,240
9 5/8	43.50	42.73	0.435	8.755	8.599	--	N80	3,810
9 5/8	43.50	42.73	0.435	8.755	8.599	--	N80 HC	4,950
9 5/8	43.50	42.73	0.435	8.755	8.599	--	N80 HP	5,380
9 5/8	43.50	42.73	0.435	8.755	8.599	--	C90	4,010
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS C90	4,010
9 5/8	43.50	42.73	0.435	8.755	8.599	--	R95	4,120
9 5/8	43.50	42.73	0.435	8.755	8.599	--	T95	4,120
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS C95	4,120
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS C100	4,230
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS RYS100	4,230
9 5/8	43.50	42.73	0.435	8.755	8.599	--	C110	4,420
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS C110	4,420
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS RYH110	4,420
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS RYS110	4,420
9 5/8	43.50	42.73	0.435	8.755	8.599	--	P110 SR16	4,420
9 5/8	43.50	42.73	0.435	8.755	8.599	--	P110	4,420
9 5/8	43.50	42.73	0.435	8.755	8.599	--	P110 HC	5,440
9 5/8	43.50	42.73	0.435	8.755	8.599	--	P110 HP	5,900
9 5/8	43.50	42.73	0.435	8.755	8.599	--	Q125	4,620
9 5/8	43.50	42.73	0.435	8.755	8.599	--	Q125 HC	5,550
9 5/8	43.50	42.73	0.435	8.755	8.599	--	Q125 HP	6,020
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS 140	4,730
9 5/8	43.50	42.73	0.435	8.755	8.599	--	USS V150	4,750
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS GT80S	4,760
9 5/8	47.00	46.18	0.472	8.681	8.525	--	L80	4,760
9 5/8	47.00	46.18	0.472	8.681	8.525	--	L80 HC	5,740
9 5/8	47.00	46.18	0.472	8.681	8.525	--	L80 HP	6,190
9 5/8	47.00	46.18	0.472	8.681	8.525	--	N80	4,760
9 5/8	47.00	46.18	0.472	8.681	8.525	--	N80 HC	5,910
9 5/8	47.00	46.18	0.472	8.681	8.525	--	N80 HP	6,430
9 5/8	47.00	46.18	0.472	8.681	8.525	--	C90	5,000
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS C90	5,000
9 5/8	47.00	46.18	0.472	8.681	8.525	--	R95	5,090
9 5/8	47.00	46.18	0.472	8.681	8.525	--	T95	5,090
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS C95	5,090
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS C100	5,180
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS RYS100	5,180
9 5/8	47.00	46.18	0.472	8.681	8.525	--	C110	5,300
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS C110	5,300
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS RYH110	5,300
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS RYS110	5,300
9 5/8	47.00	46.18	0.472	8.681	8.525	--	P110 SR16	5,300

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,005	--	813	1,038	6,330	--	6,330	6,330	6,310	7,000	6,740	10.625	10.125			
1,005	--	813	1,038	6,330	--	6,330	6,330	6,310	7,000	6,740	10.625	10.125			
1,068	--	851	1,061	6,730	--	6,730	6,730	6,700	7,440	6,740	10.625	10.125			
1,005	--	825	1,074	6,330	--	6,330	6,330	6,310	7,000	7,100	10.625	10.125			
1,005	--	825	1,074	6,330	--	6,330	6,330	6,310	7,000	7,100	10.625	10.125			
1,193	--	948	1,178	7,520	--	7,520	7,520	7,490	8,310	7,510	10.625	10.125			
1,130	--	899	1,119	7,130	--	7,130	7,130	7,100	7,880	7,870	10.625	10.125			
1,130	--	899	1,119	7,130	--	7,130	7,130	7,100	7,880	7,870	10.625	10.125			
1,193	--	948	1,178	7,520	--	7,520	7,520	7,490	8,310	7,510	10.625	10.125			
1,193	--	948	1,178	7,520	--	7,520	7,520	7,490	8,310	8,290	10.625	10.125			
1,193	--	948	1,178	7,520	--	7,520	7,520	7,490	8,310	8,290	10.625	10.125			
1,256	--	974	1,165	7,920	--	7,920	7,920	7,890	8,750	7,910	10.625	10.125			
1,256	--	974	1,165	7,920	--	7,920	7,920	7,890	8,750	7,910	10.625	10.125			
1,381	--	--	--	8,710	--	--	--	8,670	9,630	9,150	--	--			
1,381	--	--	--	8,710	--	--	--	8,670	9,630	9,540	--	--			
1,381	--	--	--	8,710	--	--	--	8,670	9,630	9,540	--	--			
1,381	--	--	--	8,710	--	--	--	8,670	9,630	9,540	--	--			
1,381	--	1,105	1,388	8,710	--	8,710	8,710	8,670	9,630	9,010	10.625	10.125			
1,381	--	1,105	1,388	8,710	--	8,710	8,710	8,670	9,630	9,940	10.625	10.125			
1,381	--	1,105	1,388	8,710	--	8,710	8,710	8,670	9,630	9,940	10.625	10.125			
1,570	--	1,228	1,492	9,900	--	9,900	9,900	9,860	10,940	10,420	10.625	10.125			
1,570	--	1,240	1,527	9,900	--	9,900	9,900	9,860	10,940	10,820	10.625	--			
1,570	--	1,240	1,527	9,900	--	9,900	9,900	9,860	10,940	10,820	10.625	--			
1,695	--	1,325	1,608	10,690	--	10,690	10,690	10,650	11,810	11,270	10.625	--			
1,758	--	1,386	1,702	11,080	--	11,080	11,080	11,040	12,250	12,110	10.625	--			
1,884	--	1,483	1,818	11,880	--	11,880	11,880	11,830	13,130	12,980	10.625	--			
1,086	--	893	1,122	6,870	--	6,870	6,870	6,830	7,570	7,330	10.625	10.125			
1,086	--	893	1,122	6,870	--	6,870	6,870	6,830	7,570	7,330	10.625	10.125			
1,086	--	893	1,122	6,870	--	6,870	6,870	6,830	7,570	7,330	10.625	10.125			
1,154	--	933	1,147	7,290	--	7,290	7,290	7,260	8,040	7,330	10.625	10.125			
1,086	--	905	1,161	6,870	--	6,870	6,870	6,830	7,570	7,720	10.625	10.125			
1,086	--	905	1,161	6,870	--	6,870	6,870	6,830	7,570	7,720	10.625	10.125			
1,289	--	1,040	1,273	8,150	--	8,150	8,150	8,110	8,990	8,160	10.625	10.125			
1,221	--	987	1,210	7,720	--	7,720	7,720	7,690	8,520	8,560	10.625	10.125			
1,221	--	987	1,210	7,720	--	7,720	7,720	7,690	8,520	8,560	10.625	10.125			
1,289	--	1,040	1,273	8,150	--	8,150	8,150	8,110	8,990	8,160	10.625	10.125			
1,289	--	1,040	1,273	8,150	--	8,150	8,150	8,110	8,990	9,010	10.625	10.125			
1,289	--	1,040	1,273	8,150	--	8,150	8,150	8,110	8,990	9,010	10.625	10.125			
1,357	--	1,068	1,259	8,580	--	8,580	8,580	8,540	9,460	8,610	10.625	10.125			
1,357	--	1,068	1,259	8,580	--	8,580	8,580	8,540	9,460	8,610	10.625	10.125			
1,493	--	--	--	9,440	--	--	--	9,400	10,410	9,950	--	--			
1,493	--	--	--	9,440	--	--	--	9,400	10,410	10,380	--	--			
1,493	--	--	--	9,440	--	--	--	9,400	10,410	10,380	--	--			
1,493	--	--	--	9,440	--	--	--	9,400	10,410	10,380	--	--			
1,493	--	1,213	1,500	9,440	--	9,440	9,440	9,400	10,410	9,790	10.625	10.125			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 5/8	47.00	46.18	0.472	8.681	8.525	--	P110	5,300
9 5/8	47.00	46.18	0.472	8.681	8.525	--	P110 HC	6,660
9 5/8	47.00	46.18	0.472	8.681	8.525	--	P110 HP	7,210
9 5/8	47.00	46.18	0.472	8.681	8.525	--	Q125	5,640
9 5/8	47.00	46.18	0.472	8.681	8.525	--	Q125 HC	6,830
9 5/8	47.00	46.18	0.472	8.681	8.525	--	Q125 HP	7,400
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS 140	5,890
9 5/8	47.00	46.18	0.472	8.681	8.525	--	USS V150	6,010
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS GT80S	6,620
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	L80	6,620
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	L80 HC	7,510
9 5/8	53.50	52.90	0.545	8.535	8.379	8.457	L80 HP	8,000
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	N80	6,620
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	N80 HC	7,800
9 5/8	53.50	52.90	0.545	8.535	8.379	8.457	N80 HP	8,480
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	C90	7,120
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS C90	7,120
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	R95	7,340
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	T95	7,340
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS C95	7,340
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS C100	7,560
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS RYS100	7,560
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	C110	7,950
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS C110	7,950
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS RYH110	7,950
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS RYS110	7,950
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	P110 SR16	7,950
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	P110	7,950
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	P110 HC	9,190
9 5/8	53.50	52.90	0.545	8.535	8.379	8.457	P110 HP	9,930
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	Q125	8,440
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	Q125 HC	9,540
9 5/8	53.50	52.90	0.545	8.535	8.379	8.457	Q125 HP	10,310
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS 140	8,800
9 5/8	53.50	52.90	0.545	8.535	8.379	8.500	USS V150	8,960
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS GT80S	7,890
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	L80	7,890
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	L80 HC	8,670
9 5/8	58.40	57.44	0.595	8.435	8.279	8.355	L80 HP	9,180
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	N80	7,890
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	N80 HC	9,040
9 5/8	58.40	57.44	0.595	8.435	8.279	8.355	N80 HP	9,830
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	C90	8,560
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS C90	8,560
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	R95	8,880

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,493	--	1,213	1,500	9,440	--	9,440	9,440	9,400	10,410	10,810	10.625	10.125		
1,493	--	1,213	1,500	9,440	--	9,440	9,440	9,400	10,410	10,810	10.625	10.125		
1,697	--	1,347	1,612	10,730	--	10,730	10,730	10,680	11,830	11,330	10.625	10.125		
1,697	--	1,360	1,650	10,730	--	10,730	10,730	10,680	11,830	11,760	10.625	--		
1,697	--	1,360	1,650	10,730	--	10,730	10,730	10,680	11,830	11,760	10.625	--		
1,832	--	1,454	1,738	11,590	--	11,590	11,590	11,530	12,770	12,260	10.625	--		
1,900	--	1,520	1,839	12,010	--	12,010	12,010	11,960	13,250	13,170	10.625	--		
2,036	--	1,627	1,965	12,870	--	12,870	12,870	12,810	14,190	14,120	10.625	--		
1,244	--	1,047	1,286	7,930	--	7,930	7,930	7,880	8,680	8,520	10.625	10.125		
1,244	--	1,047	1,286	7,930	--	7,930	7,930	7,880	8,680	8,520	10.625	10.125		
1,244	--	1,047	1,286	7,930	--	7,930	7,930	7,880	8,680	8,520	10.625	10.125		
1,321	--	1,094	1,314	8,420	--	8,420	8,420	8,370	9,220	8,520	10.625	10.125		
1,244	--	1,062	1,329	7,930	--	7,930	7,930	7,880	8,680	8,960	10.625	10.125		
1,244	--	1,062	1,329	7,930	--	7,930	7,930	7,880	8,680	8,960	10.625	10.125		
1,477	--	1,220	1,458	9,420	--	9,420	8,830	9,360	10,310	9,480	10.625	10.125		
1,399	--	1,157	1,386	8,920	--	8,920	8,920	8,870	9,760	9,950	10.625	10.125		
1,399	--	1,157	1,386	8,920	--	8,920	8,920	8,870	9,760	9,950	10.625	10.125		
1,477	--	1,220	1,458	9,420	--	9,420	9,420	9,360	10,310	9,480	10.625	10.125		
1,477	--	1,220	1,458	9,420	--	9,420	9,420	9,360	10,310	10,480	10.625	10.125		
1,477	--	1,220	1,458	9,420	--	9,420	9,420	9,360	10,310	10,480	10.625	10.125		
1,555	--	1,253	1,442	9,910	--	9,910	9,910	9,850	10,850	10,000	10.625	10.125		
1,555	--	1,253	1,442	9,910	--	9,910	9,910	9,850	10,850	10,000	10.625	10.125		
1,710	--	--	--	10,900	--	--	--	10,840	11,930	11,560	--	--		
1,710	--	--	--	10,900	--	--	--	10,840	11,930	12,070	--	--		
1,710	--	--	--	10,900	--	--	--	10,840	11,930	12,070	--	--		
1,710	--	--	--	10,900	--	--	--	10,840	11,930	12,070	--	--		
1,710	--	1,422	1,718	10,900	--	10,900	10,900	10,840	11,930	11,370	10.625	10.125		
1,710	--	1,422	1,718	10,900	--	10,900	10,900	10,840	11,930	12,570	10.625	10.125		
1,710	--	1,422	1,718	10,900	--	10,900	10,900	10,840	11,930	12,570	10.625	10.125		
1,943	--	1,580	1,847	12,390	--	12,390	12,140	12,310	13,560	13,170	10.625	10.125		
1,943	--	1,595	1,890	12,390	--	12,390	12,390	12,310	13,560	13,680	10.625	--		
1,943	--	1,595	1,890	12,390	--	12,390	12,390	12,310	13,560	13,680	10.625	--		
2,099	--	1,705	1,991	13,380	--	13,380	13,380	13,300	14,650	14,250	10.625	--		
2,177	--	1,783	2,107	13,880	--	13,880	13,880	13,790	15,190	15,310	10.625	--		
2,332	--	1,908	2,251	14,870	--	14,870	14,870	14,780	16,270	16,410	10.625	--		
1,350	--	1,151	1,396	8,660	--	8,660	8,660	8,600	9,430	9,340	10.625	10.125		
1,350	--	1,151	1,396	8,660	--	8,660	8,660	8,600	9,430	9,340	10.625	10.125		
1,350	--	1,151	1,396	8,660	--	8,660	8,660	8,600	9,430	9,340	10.625	10.125		
1,435	--	1,203	1,426	9,200	--	9,200	8,830	9,130	10,020	9,340	10.625	10.125		
1,350	--	1,167	1,443	8,660	--	8,660	8,660	8,600	9,430	9,830	10.625	10.125		
1,350	--	1,167	1,443	8,660	--	8,660	8,660	8,600	9,430	9,830	10.625	10.125		
1,604	--	1,341	1,583	10,280	--	9,630	8,830	10,210	11,200	10,400	10.625	10.125		
1,519	--	1,272	1,504	9,740	--	9,740	9,740	9,670	10,610	10,920	10.625	10.125		
1,519	--	1,272	1,504	9,740	--	9,740	9,740	9,670	10,610	10,920	10.625	10.125		
1,604	--	1,341	1,583	10,280	--	10,280	10,280	10,210	11,200	10,400	10.625	10.125		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	T95	8,880
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS C95	8,880
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS C100	9,190
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS RYS100	9,190
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	C110	9,760
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS C110	9,760
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS RYH110	9,760
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS RYS110	9,760
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	P110 SR16	9,760
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	P110	9,760
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	P110 HC	10,940
9 5/8	58.40	57.44	0.595	8.435	8.279	8.355	P110 HP	11,800
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	Q125	10,530
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	Q125 HC	11,450
9 5/8	58.40	57.44	0.595	8.435	8.279	8.355	Q125 HP	12,340
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS 140	11,190
9 5/8	58.40	57.44	0.595	8.435	8.279	8.375	USS V150	11,560
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS GT80S	8,260
9 5/8	59.40	58.70	0.609	8.407	8.251	--	L80	8,260
9 5/8	59.40	58.70	0.609	8.407	8.251	--	L80 HC	8,980
9 5/8	59.40	58.70	0.609	8.407	8.251	--	L80 HP	9,500
9 5/8	59.40	58.70	0.609	8.407	8.251	--	N80	8,260
9 5/8	59.40	58.70	0.609	8.407	8.251	--	N80 HC	9,380
9 5/8	59.40	58.70	0.609	8.407	8.251	--	N80 HP	10,200
9 5/8	59.40	58.70	0.609	8.407	8.251	--	C90	8,980
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS C90	8,980
9 5/8	59.40	58.70	0.609	8.407	8.251	--	T95	9,320
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS C95	9,320
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS C100	9,650
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS RYS100	9,650
9 5/8	59.40	58.70	0.609	8.407	8.251	--	C110	10,280
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS C110	10,280
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS RYH110	10,280
9 5/8	59.40	58.70	0.609	8.407	8.251	--	USS RYS110	10,280
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS C100	10,170
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS RYS100	10,170
9 5/8	61.10	60.13	0.625	8.375	8.219	--	C110	10,860
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS C110	10,860
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS RYH110	10,860
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS RYS110	10,860
9 5/8	61.10	60.13	0.625	8.375	8.219	--	P110 SR16	10,860
9 5/8	61.10	60.13	0.625	8.375	8.219	--	P110	10,860
9 5/8	61.10	60.13	0.625	8.375	8.219	--	P110 HC	11,970
9 5/8	61.10	60.13	0.625	8.375	8.219	--	P110 HP	14,590
9 5/8	61.10	60.13	0.625	8.375	8.219	--	Q125	11,800

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,604	--	1,341	1,583	10,280	--	10,280	10,280	10,210	11,200	11,500	10.625	10.125			
1,604	--	1,341	1,583	10,280	--	10,280	10,280	10,210	11,200	11,500	10.625	10.125			
1,688	--	1,377	1,566	10,830	--	10,830	10,830	10,750	11,790	10,980	10.625	10.125			
1,688	--	1,377	1,566	10,830	--	10,830	10,830	10,750	11,790	10,980	10.625	10.125			
1,857	--	--	--	11,910	--	--	--	11,820	12,970	12,690	--	--			
1,857	--	--	--	11,910	--	--	--	11,820	12,970	13,240	--	--			
1,857	--	--	--	11,910	--	--	--	11,820	12,970	13,240	--	--			
1,857	--	--	--	11,910	--	--	--	11,820	12,970	13,240	--	--			
1,857	--	1,563	1,865	11,910	--	11,910	11,910	11,820	12,970	12,480	10.625	10.125			
1,857	--	1,563	1,865	11,910	--	11,910	11,910	11,820	12,970	13,790	10.625	10.125			
1,857	--	1,563	1,865	11,910	--	11,910	11,910	11,820	12,970	13,790	10.625	10.125			
2,110	--	1,737	2,005	13,530	--	13,280	12,140	13,430	14,740	14,450	10.625	10.125			
2,110	--	1,754	2,052	13,530	--	13,530	13,530	13,430	14,740	15,010	10.625	--			
2,110	--	1,754	2,052	13,530	--	13,530	13,530	13,430	14,740	15,010	10.625	--			
2,279	--	1,875	2,161	14,620	--	14,620	13,800	14,510	15,910	15,640	10.625	--			
2,363	--	1,960	2,287	15,160	--	15,160	15,160	15,040	16,500	16,800	10.625	--			
2,532	--	2,098	2,444	16,240	--	16,240	16,240	16,120	17,680	18,010	10.625	--			
1,380	--	--	--	8,860	--	--	--	8,790	9,640	9,570	--	--			
1,380	--	--	--	8,860	--	--	--	8,790	9,640	9,570	--	--			
1,380	--	--	--	8,860	--	--	--	8,790	9,640	9,570	--	--			
1,466	--	--	--	9,410	--	--	--	9,340	10,240	9,570	--	--			
1,380	--	--	--	8,860	--	--	--	8,790	9,640	10,070	--	--			
1,380	--	--	--	8,860	--	--	--	8,790	9,640	10,070	--	--			
1,639	--	--	--	10,520	--	--	--	10,440	11,450	10,650	--	--			
1,553	--	--	--	9,970	--	--	--	9,890	10,850	11,190	--	--			
1,553	--	--	--	9,970	--	--	--	9,890	10,850	11,190	--	--			
1,639	--	--	--	10,520	--	--	--	10,440	11,450	11,780	--	--			
1,639	--	--	--	10,520	--	--	--	10,440	11,450	11,780	--	--			
1,725	--	--	--	11,080	--	--	--	10,990	12,050	11,240	--	--			
1,725	--	--	--	11,080	--	--	--	10,990	12,050	11,240	--	--			
1,898	--	--	--	12,180	--	--	--	12,090	13,260	12,990	--	--			
1,898	--	--	--	12,180	--	--	--	12,090	13,260	13,560	--	--			
1,898	--	--	--	12,180	--	--	--	12,090	13,260	13,560	--	--			
1,898	--	--	--	12,180	--	--	--	12,090	13,260	13,560	--	--			
1,767	--	--	--	11,370	--	--	--	11,270	12,350	11,560	--	--			
1,767	--	--	--	11,370	--	--	--	11,270	12,350	11,560	--	--			
1,944	--	--	--	12,500	--	--	--	12,400	13,580	13,360	--	--			
1,944	--	--	--	12,500	--	--	--	12,400	13,580	13,940	--	--			
1,944	--	--	--	12,500	--	--	--	12,400	13,580	13,940	--	--			
1,944	--	--	--	12,500	--	--	--	12,400	13,580	13,940	--	--			
1,944	--	1,647	1,953	12,500	--	12,500	12,140	12,400	13,580	13,130	10.625	10.125			
1,944	--	1,647	1,953	12,500	--	12,500	12,140	12,400	13,580	14,520	10.625	10.125			
1,944	--	1,647	1,953	12,500	--	12,500	12,140	12,400	13,580	14,520	10.625	10.125			
2,363	--	1,975	2,196	14,210	--	13,280	12,140	14,090	15,430	15,140	10.625	10.125			
2,209	--	1,848	2,149	14,210	--	14,210	13,800	14,090	15,430	15,800	10.625	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 5/8	61.10	60.13	0.625	8.375	8.219	--	Q125 HC	12,580
9 5/8	61.10	60.13	0.625	8.375	8.219	--	Q125 HP	13,550
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS 140	12,630
9 5/8	61.10	60.13	0.625	8.375	8.219	--	USS V150	13,120
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS GT80S	9,860
9 5/8	64.90	64.32	0.672	8.281	8.125	--	L80	9,860
9 5/8	64.90	64.32	0.672	8.281	8.125	--	L80 HC	10,370
9 5/8	64.90	64.32	0.672	8.281	8.125	--	L80 HP	10,920
9 5/8	64.90	64.32	0.672	8.281	8.125	--	N80	9,860
9 5/8	64.90	64.32	0.672	8.281	8.125	--	N80 HC	10,870
9 5/8	64.90	64.32	0.672	8.281	8.125	--	N80 HP	11,810
9 5/8	64.90	64.32	0.672	8.281	8.125	--	C90	10,810
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS C90	10,810
9 5/8	64.90	64.32	0.672	8.281	8.125	--	T95	11,260
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS C95	11,260
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS C100	11,710
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS RYS100	11,710
9 5/8	64.90	64.32	0.672	8.281	8.125	--	C110	12,570
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS C110	12,570
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS RYH110	12,570
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS RYS110	12,570
9 5/8	64.90	64.32	0.672	8.281	8.125	--	P110 SR16	12,570
9 5/8	64.90	64.32	0.672	8.281	8.125	--	P110	12,570
9 5/8	64.90	64.32	0.672	8.281	8.125	--	P110 HC	13,540
9 5/8	64.90	64.32	0.672	8.281	8.125	--	P110 HP	14,590
9 5/8	64.90	64.32	0.672	8.281	8.125	--	Q125	13,780
9 5/8	64.90	64.32	0.672	8.281	8.125	--	Q125 HC	14,320
9 5/8	64.90	64.32	0.672	8.281	8.125	--	Q125 HP	15,400
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS 140	14,890
9 5/8	64.90	64.32	0.672	8.281	8.125	--	USS V150	15,570
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS GT80S	11,270
9 5/8	70.30	69.76	0.734	8.157	8.001	--	L80	11,270
9 5/8	70.30	69.76	0.734	8.157	8.001	--	L80 HC	11,690
9 5/8	70.30	69.76	0.734	8.157	8.001	--	L80 HP	12,280
9 5/8	70.30	69.76	0.734	8.157	8.001	--	N80	11,270
9 5/8	70.30	69.76	0.734	8.157	8.001	--	N80 HC	12,280
9 5/8	70.30	69.76	0.734	8.157	8.001	--	N80 HP	13,350
9 5/8	70.30	69.76	0.734	8.157	8.001	--	C90	12,610
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS C90	12,610
9 5/8	70.30	69.76	0.734	8.157	8.001	--	T95	13,180
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS C95	13,180
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS C100	13,740
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS RYS100	13,740
9 5/8	70.30	69.76	0.734	8.157	8.001	--	C110	14,830
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS C110	14,830

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
2,209	--	1,848	2,149	14,210	--	14,210	13,800	14,090	15,430	15,800	10.625	--		
2,386	--	1,976	2,263	15,340	--	15,090	13,800	15,220	16,670	16,460	10.625	--		
2,474	--	2,065	2,395	15,910	--	15,910	15,460	15,780	17,290	17,680	10.625	--		
2,651	--	2,210	2,559	17,050	--	17,050	16,560	16,910	18,520	18,960	10.625	--		
1,512	--	--	--	9,770	--	--	--	9,680	10,570	10,610	--	--		
1,512	--	--	--	9,770	--	--	--	9,680	10,570	10,610	--	--		
1,512	--	--	--	9,770	--	--	--	9,680	10,570	10,610	--	--		
1,607	--	--	--	10,390	--	--	--	10,290	11,230	10,610	--	--		
1,512	--	--	--	9,770	--	--	--	9,680	10,570	11,170	--	--		
1,512	--	--	--	9,770	--	--	--	9,680	10,570	11,170	--	--		
1,796	--	--	--	11,610	--	--	--	11,500	12,560	11,810	--	--		
1,701	--	--	--	11,000	--	--	--	10,890	11,890	12,410	--	--		
1,701	--	--	--	11,000	--	--	--	10,890	11,890	12,410	--	--		
1,796	--	--	--	11,610	--	--	--	11,500	12,560	13,070	--	--		
1,796	--	--	--	11,610	--	--	--	11,500	12,560	13,070	--	--		
1,890	--	--	--	12,220	--	--	--	12,100	13,220	12,470	--	--		
1,890	--	--	--	12,220	--	--	--	12,100	13,220	12,470	--	--		
2,079	--	--	--	13,440	--	--	--	13,310	14,540	14,420	--	--		
2,079	--	--	--	13,440	--	--	--	13,310	14,540	15,040	--	--		
2,079	--	--	--	13,440	--	--	--	13,310	14,540	15,040	--	--		
2,079	--	--	--	13,440	--	--	--	13,310	14,540	15,040	--	--		
2,079	--	1,778	2,089	13,440	--	13,280	12,140	13,310	14,540	14,170	10.625	10.125		
2,079	--	1,778	2,089	13,440	--	13,280	12,140	13,310	14,540	15,670	10.625	10.125		
2,079	--	1,778	2,089	13,440	--	13,280	12,140	13,310	14,540	15,670	10.625	10.125		
2,363	--	1,975	2,196	15,270	--	13,280	12,140	15,130	16,520	16,420	10.625	10.125		
2,363	--	1,994	2,298	15,270	--	15,090	13,800	15,130	16,520	17,050	10.625	--		
2,363	--	1,994	2,298	15,270	--	15,090	13,800	15,130	16,520	17,050	10.625	--		
2,552	--	2,132	2,372	16,490	--	15,090	13,800	16,340	17,840	17,770	10.625	--		
2,646	--	2,229	2,561	17,110	--	16,910	15,460	16,940	18,500	19,090	10.625	--		
2,835	--	2,385	2,737	18,330	--	18,110	16,560	18,150	19,820	20,460	10.625	--		
1,640	--	--	--	10,670	--	--	--	10,550	11,480	11,640	--	--		
1,640	--	--	--	10,670	--	--	--	10,550	11,480	11,640	--	--		
1,640	--	--	--	10,670	--	--	--	10,550	11,480	11,640	--	--		
1,743	--	--	--	11,340	--	--	--	11,210	12,200	11,640	--	--		
1,640	--	--	--	10,670	--	--	--	10,550	11,480	12,250	--	--		
1,640	--	--	--	10,670	--	--	--	10,550	11,480	12,250	--	--		
1,948	--	--	--	12,670	--	--	--	12,530	13,630	12,960	--	--		
1,845	--	--	--	12,010	--	--	--	11,870	12,910	13,630	--	--		
1,845	--	--	--	12,010	--	--	--	11,870	12,910	13,630	--	--		
1,948	--	--	--	12,670	--	--	--	12,530	13,630	14,350	--	--		
1,948	--	--	--	12,670	--	--	--	12,530	13,630	14,350	--	--		
2,050	--	--	--	13,340	--	--	--	13,190	14,350	13,700	--	--		
2,050	--	--	--	13,340	--	--	--	13,190	14,350	13,700	--	--		
2,255	--	--	--	14,670	--	--	--	14,510	15,780	15,830	--	--		
2,255	--	--	--	14,670	--	--	--	14,510	15,780	16,520	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS RYH110	14,830
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS RYS110	14,830
9 5/8	70.30	69.76	0.734	8.157	8.001	--	P110 SR16	14,830
9 5/8	70.30	69.76	0.734	8.157	8.001	--	P110	14,830
9 5/8	70.30	69.76	0.734	8.157	8.001	--	P110 HC	15,550
9 5/8	70.30	69.76	0.734	8.157	8.001	--	P110 HP	16,740
9 5/8	70.30	69.76	0.734	8.157	8.001	--	Q125	16,390
9 5/8	70.30	69.76	0.734	8.157	8.001	--	Q125 HC	16,540
9 5/8	70.30	69.76	0.734	8.157	8.001	--	Q125 HP	17,760
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS 140	17,870
9 5/8	70.30	69.76	0.734	8.157	8.001	--	USS V150	18,800
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS GT80S	12,150
9 5/8	75.60	75.21	0.797	8.031	7.875	--	L80	12,150
9 5/8	75.60	75.21	0.797	8.031	7.875	--	L80 HC	13,000
9 5/8	75.60	75.21	0.797	8.031	7.875	--	L80 HP	13,620
9 5/8	75.60	75.21	0.797	8.031	7.875	--	N80	12,150
9 5/8	75.60	75.21	0.797	8.031	7.875	--	N80 HC	13,680
9 5/8	75.60	75.21	0.797	8.031	7.875	--	N80 HP	14,870
9 5/8	75.60	75.21	0.797	8.031	7.875	--	C90	13,670
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS C90	13,670
9 5/8	75.60	75.21	0.797	8.031	7.875	--	T95	14,430
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS C95	14,430
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS C100	15,190
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS RYS100	15,190
9 5/8	75.60	75.21	0.797	8.031	7.875	--	C110	16,700
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS C110	16,700
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS RYH110	16,700
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS RYS110	16,700
9 5/8	75.60	75.21	0.797	8.031	7.875	--	P110 SR16	16,700
9 5/8	75.60	75.21	0.797	8.031	7.875	--	P110	16,700
9 5/8	75.60	75.21	0.797	8.031	7.875	--	P110 HC	17,520
9 5/8	75.60	75.21	0.797	8.031	7.875	--	P110 HP	18,840
9 5/8	75.60	75.21	0.797	8.031	7.875	--	Q125	18,980
9 5/8	75.60	75.21	0.797	8.031	7.875	--	Q125 HC	18,710
9 5/8	75.60	75.21	0.797	8.031	7.875	--	Q125 HP	20,080
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS 140	20,870
9 5/8	75.60	75.21	0.797	8.031	7.875	--	USS V150	22,050
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	K55	5,860
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS GT80S	7,700
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	L80	7,700
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	L80 HC	8,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	L80 HP	9,000
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	N80	7,700
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	N80 HC	8,850
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	N80 HP	9,620

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter					
				Pipe Body	API Historical			Lame' - Von Mises			Regular Coupling	Special Clr Coupling				
Joint Strength, 1,000 lbs					Threaded & Coupled			Open End	Capped End							
Yield	Threaded and Coupled				STC	LTC	BTC									
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.				
2,255	--	--	--	14,670	--	--	--	14,510	15,780	16,520	--	--				
2,255	--	--	--	14,670	--	--	--	14,510	15,780	16,520	--	--				
2,255	--	1,948	2,196	14,670	--	13,280	12,140	14,510	15,780	15,550	10.625	10.125				
2,255	--	1,948	2,196	14,670	--	13,280	12,140	14,510	15,780	17,210	10.625	10.125				
2,255	--	1,948	2,196	14,670	--	13,280	12,140	14,510	15,780	17,210	10.625	10.125				
2,563	--	2,164	2,196	16,680	--	13,280	12,140	16,490	17,940	18,030	10.625	10.125				
2,563	--	2,185	2,372	16,680	--	15,090	13,800	16,490	17,940	18,720	10.625	--				
2,563	--	2,185	2,372	16,680	--	15,090	13,800	16,490	17,940	18,720	10.625	--				
2,768	--	2,336	2,372	18,010	--	15,090	13,800	17,810	19,370	19,510	10.625	--				
2,870	--	2,442	2,636	18,680	--	16,910	15,460	18,470	20,090	20,960	10.625	--				
3,075	--	2,613	2,811	20,010	--	18,110	16,560	19,790	21,520	22,470	10.625	--				
1,768	--	--	--	11,590	--	--	--	11,430	12,390	12,700	--	--				
1,768	--	--	--	11,590	--	--	--	11,430	12,390	12,700	--	--				
1,768	--	--	--	11,590	--	--	--	11,430	12,390	12,700	--	--				
1,879	--	--	--	12,310	--	--	--	12,150	13,160	12,700	--	--				
1,768	--	--	--	11,590	--	--	--	11,430	12,390	13,370	--	--				
1,768	--	--	--	11,590	--	--	--	11,430	12,390	13,370	--	--				
2,100	--	--	--	13,760	--	--	--	13,580	14,710	14,140	--	--				
1,989	--	--	--	13,030	--	--	--	12,860	13,940	14,880	--	--				
1,989	--	--	--	13,030	--	--	--	12,860	13,940	14,880	--	--				
2,100	--	--	--	13,760	--	--	--	13,580	14,710	15,660	--	--				
2,100	--	--	--	13,760	--	--	--	13,580	14,710	15,660	--	--				
2,210	--	--	--	14,480	--	--	--	14,290	15,490	14,960	--	--				
2,210	--	--	--	14,480	--	--	--	14,290	15,490	14,960	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	17,280	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	18,040	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	18,040	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	18,040	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	16,970	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	18,790	--	--				
2,431	--	--	--	15,930	--	--	--	15,720	17,030	18,790	--	--				
2,763	--	--	--	18,100	--	--	--	17,860	19,360	19,690	--	--				
2,763	--	--	--	18,100	--	--	--	17,860	19,360	20,440	--	--				
2,763	--	--	--	18,100	--	--	--	17,860	19,360	20,440	--	--				
2,984	--	--	--	19,550	--	--	--	19,290	20,910	21,310	--	--				
3,095	--	--	--	20,280	--	--	--	20,010	21,680	22,890	--	--				
3,316	--	--	--	21,720	--	--	--	21,440	23,230	24,530	--	--				
941	682	788	1,120	5,880	5,880	5,880	5,880	5,840	6,410	7,530	10.625	--				
1,369	--	1,020	1,258	8,550	--	8,550	8,550	8,490	9,320	10,180	10.625	--				
1,369	--	1,020	1,258	8,550	--	8,550	8,550	8,490	9,320	10,180	10.625	--				
1,369	--	1,020	1,258	8,550	--	8,550	8,550	8,490	9,320	10,180	10.625	--				
1,455	--	1,067	1,285	9,080	--	9,080	8,830	9,020	9,900	10,180	10.625	--				
1,369	--	1,035	1,301	8,550	--	8,550	8,550	8,490	9,320	10,720	10.625	--				
1,369	--	1,035	1,301	8,550	--	8,550	8,550	8,490	9,320	10,720	10.625	--				
1,626	--	1,189	1,426	10,150	--	9,630	8,830	10,080	11,060	11,340	10.625	--				

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	C90	8,340
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS C90	8,340
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	R95	8,650
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	T95	8,650
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS C95	8,650
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS C100	8,940
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS RYS100	8,940
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	C110	9,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS C110	9,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS RYH110	9,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS RYS110	9,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	P110 SR16	9,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	P110	9,490
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	P110 HC	10,670
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	P110 HP	11,520
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	Q125	10,210
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	Q125 HC	11,160
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	Q125 HP	12,030
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS 140	10,820
9 3/4	59.20	58.23	0.595	8.560	8.404	8.500	USS V150	11,160
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	K55	6,230
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS GT80S	8,260
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	L80	8,260
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	L80 HC	8,990
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	L80 HP	9,510
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	N80	8,260
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	N80 HC	9,380
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	N80 HP	10,200
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	C90	8,980
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS C90	8,980
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	R95	9,320
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	T95	9,320
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS C95	9,320
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS C100	9,650
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS RYS100	9,650
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	C110	10,280
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS C110	10,280
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS RYH110	10,280
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS RYS110	10,280
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	P110 SR16	10,280
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	P110	10,280
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	P110 HC	11,430
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	P110 HP	12,320
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	Q125	11,140
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	Q125 HC	11,980

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC		psi	in.	in.	
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,540	--	1,128	1,356	9,620	--	9,620	9,620	9,550	10,480	10,770	10.625	--
1,540	--	1,128	1,356	9,620	--	9,620	9,620	9,550	10,480	10,770	10.625	--
1,626	--	1,189	1,426	10,150	--	10,150	10,150	10,080	11,060	11,340	10.625	--
1,626	--	1,189	1,426	10,150	--	10,150	10,150	10,080	11,060	11,340	10.625	--
1,626	--	1,189	1,426	10,150	--	10,150	10,150	10,080	11,060	11,340	10.625	--
1,711	--	1,221	1,411	10,690	--	10,690	10,690	10,610	11,650	10,830	10.625	--
1,711	--	1,221	1,411	10,690	--	10,690	10,690	10,610	11,650	10,830	10.625	--
1,882	--	--	--	11,760	--	--	--	11,670	12,810	12,520	--	--
1,882	--	--	--	11,760	--	--	--	11,670	12,810	13,060	--	--
1,882	--	--	--	11,760	--	--	--	11,670	12,810	13,060	--	--
1,882	--	--	--	11,760	--	--	--	11,670	12,810	13,060	--	--
1,882	--	1,386	1,681	11,760	--	11,760	11,760	11,670	12,810	12,310	10.625	--
1,882	--	1,386	1,681	11,760	--	11,760	11,760	11,670	12,810	13,600	10.625	--
1,882	--	1,386	1,681	11,760	--	11,760	11,760	11,670	12,810	13,600	10.625	--
2,139	--	1,541	1,807	13,360	--	13,280	12,140	13,260	14,560	14,250	10.625	--
2,139	--	1,555	1,850	13,360	--	13,360	13,360	13,260	14,560	14,800	10.625	--
2,139	--	1,555	1,850	13,360	--	13,360	13,360	13,260	14,560	14,800	10.625	--
2,310	--	1,663	1,948	14,430	--	14,430	13,800	14,320	15,720	15,430	10.625	--
2,396	--	1,738	2,061	14,960	--	14,960	14,960	14,850	16,300	16,570	10.625	--
2,567	--	1,860	2,202	16,030	--	16,030	16,030	15,910	17,470	17,760	10.625	--
999	636	735	1,055	6,090	6,090	6,090	6,070	6,050	6,630	7,810	10.625	--
1,453	--	952	1,185	8,860	--	8,860	8,830	8,790	9,640	10,580	10.625	--
1,453	--	952	1,185	8,860	--	8,860	8,830	8,790	9,640	10,580	10.625	--
1,453	--	952	1,185	8,860	--	8,860	8,830	8,790	9,640	10,580	10.625	--
1,544	--	995	1,211	9,420	--	9,420	8,830	9,340	10,250	10,580	10.625	--
1,453	--	965	1,226	8,860	--	8,860	8,830	8,790	9,640	11,130	10.625	--
1,453	--	965	1,226	8,860	--	8,860	8,830	8,790	9,640	11,130	10.625	--
1,725	--	1,109	1,344	10,520	--	9,630	8,830	10,440	11,450	11,780	10.625	--
1,635	--	1,052	1,278	9,970	--	9,970	9,940	9,890	10,850	11,190	10.625	--
1,635	--	1,052	1,278	9,970	--	9,970	9,940	9,890	10,850	11,190	10.625	--
1,725	--	1,109	1,344	10,520	--	10,520	10,490	10,440	11,450	11,780	10.625	--
1,725	--	1,109	1,344	10,520	--	10,520	10,490	10,440	11,450	11,780	10.625	--
1,725	--	1,109	1,344	10,520	--	10,520	10,490	10,440	11,450	11,780	10.625	--
1,816	--	1,139	1,330	11,080	--	11,080	11,040	10,990	12,050	11,250	10.625	--
1,816	--	1,139	1,330	11,080	--	11,080	11,040	10,990	12,050	11,250	10.625	--
1,998	--	--	--	12,190	--	--	--	12,090	13,260	13,000	--	--
1,998	--	--	--	12,190	--	--	--	12,090	13,260	13,560	--	--
1,998	--	--	--	12,190	--	--	--	12,090	13,260	13,560	--	--
1,998	--	--	--	12,190	--	--	--	12,090	13,260	13,560	--	--
1,998	--	1,293	1,584	12,190	--	12,190	12,140	12,090	13,260	12,780	10.625	--
1,998	--	1,293	1,584	12,190	--	12,190	12,140	12,090	13,260	14,130	10.625	--
1,998	--	1,293	1,584	12,190	--	12,190	12,140	12,090	13,260	14,130	10.625	--
2,270	--	1,437	1,702	13,850	--	13,280	12,140	13,740	15,070	14,800	10.625	--
2,270	--	1,451	1,743	13,850	--	13,850	13,800	13,740	15,070	15,370	10.625	--
2,270	--	1,451	1,743	13,850	--	13,850	13,800	13,740	15,070	15,370	10.625	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	Q125 HP	12,910
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS 140	11,870
9 7/8	62.80	61.80	0.625	8.625	8.469	8.500	USS V150	12,300
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	K55	6,650
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS GT80S	8,880
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	L80	8,880
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	L80 HC	9,530
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	L80 HP	10,060
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	N80	8,880
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	N80 HC	9,970
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	N80 HP	10,830
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	C90	9,690
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS C90	9,690
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	R95	10,080
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	T95	10,080
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS C95	10,080
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS C100	10,450
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS RYS100	10,450
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	C110	11,170
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS C110	11,170
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS RYS110	11,170
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	P110 SR16	11,170
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	P110	11,170
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	P110 HC	12,260
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	P110 HP	13,210
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	Q125	12,160
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	Q125 HC	12,900
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	Q125 HP	13,890
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS 140	13,050
9 7/8	65.10	64.10	0.650	8.575	8.419	8.500	USS V150	13,570
10 3/4	32.75	31.23	0.279	10.192	10.036	--	H40	840
10 3/4	40.50	38.91	0.350	10.050	9.894	--	H40	1,390
10 3/4	40.50	38.91	0.350	10.050	9.894	--	J55	1,580
10 3/4	40.50	38.91	0.350	10.050	9.894	--	K55	1,580
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS HCK55	1,900
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS GT80S	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	L80	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	L80 HC	2,130
10 3/4	40.50	38.91	0.350	10.050	9.894	--	L80 HP	2,360
10 3/4	40.50	38.91	0.350	10.050	9.894	--	N80	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	N80 HC	2,150
10 3/4	40.50	38.91	0.350	10.050	9.894	--	N80 HP	2,340
10 3/4	40.50	38.91	0.350	10.050	9.894	--	C90	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS C90	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	R95	1,730

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
2,452	--	1,551	1,835	14,960	--	14,960	13,800	14,840	16,270	16,020	10.625	--
2,543	--	1,622	1,942	15,510	--	15,510	15,460	15,390	16,870	17,210	10.625	--
2,724	--	1,735	2,075	16,620	--	16,620	16,560	16,490	18,080	18,450	10.625	--
1,036	671	775	1,105	6,340	6,180	6,340	6,070	6,280	6,880	8,140	10.625	--
1,507	--	1,005	1,241	9,220	--	9,220	8,830	9,140	10,010	11,030	10.625	--
1,507	--	1,005	1,241	9,220	--	9,220	8,830	9,140	10,010	11,030	10.625	--
1,507	--	1,005	1,241	9,220	--	9,220	8,830	9,140	10,010	11,030	10.625	--
1,601	--	1,050	1,268	9,800	--	9,630	8,830	9,710	10,630	11,030	10.625	--
1,507	--	1,019	1,283	9,220	--	9,220	8,830	9,140	10,010	11,610	10.625	--
1,507	--	1,019	1,283	9,220	--	9,220	8,830	9,140	10,010	11,610	10.625	--
1,790	--	1,171	1,407	10,950	--	9,630	8,830	10,860	11,880	12,280	10.625	--
1,695	--	1,111	1,338	10,370	--	10,370	9,940	10,280	11,260	11,670	10.625	--
1,695	--	1,111	1,338	10,370	--	10,370	9,940	10,280	11,260	11,670	10.625	--
1,790	--	1,171	1,407	10,950	--	10,950	10,490	10,860	11,880	12,280	10.625	--
1,790	--	1,171	1,407	10,950	--	10,950	10,490	10,860	11,880	12,280	10.625	--
1,790	--	1,171	1,407	10,950	--	10,950	10,490	10,860	11,880	12,280	10.625	--
1,884	--	1,202	1,392	11,520	--	11,520	11,040	11,430	12,510	11,730	10.625	--
1,884	--	1,202	1,392	11,520	--	11,520	11,040	11,430	12,510	11,730	10.625	--
2,072	--	--	--	12,680	--	--	--	12,570	13,760	13,550	--	--
2,072	--	--	--	12,680	--	--	--	12,570	13,760	14,140	--	--
2,072	--	--	--	12,680	--	--	--	12,570	13,760	14,140	--	--
2,072	--	--	--	12,680	--	--	--	12,570	13,760	13,320	--	--
2,072	--	1,365	1,659	12,680	--	12,680	12,140	12,570	13,760	14,730	10.625	--
2,072	--	1,365	1,659	12,680	--	12,680	12,140	12,570	13,760	14,730	10.625	--
2,355	--	1,517	1,783	14,410	--	13,280	12,140	14,280	15,630	15,430	10.625	--
2,355	--	1,531	1,825	14,410	--	14,410	13,800	14,280	15,630	16,030	10.625	--
2,355	--	1,531	1,825	14,410	--	14,410	13,800	14,280	15,630	16,030	10.625	--
2,543	--	1,637	1,922	15,560	--	15,090	13,800	15,430	16,880	16,700	10.625	--
2,637	--	1,711	2,034	16,130	--	16,130	15,460	16,000	17,510	17,940	10.625	--
2,826	--	1,831	2,173	17,290	--	17,290	16,560	17,140	18,760	19,240	10.625	--
367	205	--	--	1,820	1,820	--	--	1,810	2,050	1,960	11.750	11.250
457	314	--	--	2,280	2,280	--	--	2,270	2,550	2,470	11.750	11.250
629	420	--	700	3,130	3,130	--	3,130	3,120	3,510	3,110	11.750	11.250
629	450	--	819	3,130	3,130	--	3,130	3,120	3,510	3,930	11.750	11.250
629	450	--	819	3,130	3,130	--	3,130	3,120	3,510	3,930	11.750	11.250
915	--	--	--	4,550	--	--	--	4,550	5,100	4,800	--	--
915	--	--	--	4,550	--	--	--	4,550	5,100	4,800	--	--
915	--	--	--	4,550	--	--	--	4,550	5,100	4,800	--	--
972	--	--	--	4,980	--	--	--	4,970	5,420	4,970	--	--
915	--	--	--	4,550	--	--	--	4,550	5,100	5,050	--	--
915	--	--	--	4,550	--	--	--	4,550	5,100	5,050	--	--
1,086	--	--	--	5,570	--	--	--	5,560	6,060	5,530	--	--
1,029	--	--	--	5,120	--	--	--	5,110	5,740	5,600	--	--
1,029	--	--	--	5,120	--	--	--	5,110	5,740	5,600	--	--
1,086	--	--	--	5,410	--	--	--	5,400	6,060	5,350	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
10 3/4	40.50	38.91	0.350	10.050	9.894	--	T95	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS C95	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS C100	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS RYS100	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	C110	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS C110	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS RYS110	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	P110 SR16	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	P110	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	P110 HC	2,230
10 3/4	40.50	38.91	0.350	10.050	9.894	--	P110 HP	2,420
10 3/4	40.50	38.91	0.350	10.050	9.894	--	Q125	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	Q125 HC	2,240
10 3/4	40.50	38.91	0.350	10.050	9.894	--	Q125 HP	2,440
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS 140	1,730
10 3/4	40.50	38.91	0.350	10.050	9.894	--	USS V150	1,730
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	J55	2,090
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	K55	2,090
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS HCK55	2,840
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS GT80S	2,470
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	L80	2,470
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	L80 HC	2,940
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	L80 HP	3,120
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	N80	2,470
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	N80 HC	3,020
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	N80 HP	3,220
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	C90	2,560
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS C90	2,560
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	R95	2,590
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	T95	2,590
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS C95	2,590
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS C100	2,600
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS RYS100	2,600
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	C110	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS C110	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS RYH110	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS RYS110	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	P110 SR16	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	P110	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	P110 HC	3,240
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	P110 HP	3,520
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	Q125	2,610
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	Q125 HC	3,280
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	Q125 HP	3,560
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS 140	2,610

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises				Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,086	--	--	--	5,410	--	--	--	5,400	6,060	5,890	--	--
1,086	--	--	--	5,410	--	--	--	5,400	6,060	5,890	--	--
1,144	--	--	--	5,690	--	--	--	5,680	6,380	6,190	--	--
1,144	--	--	--	5,690	--	--	--	5,680	6,380	6,190	--	--
1,258	--	--	--	6,260	--	--	--	6,250	7,010	6,500	--	--
1,258	--	--	--	6,260	--	--	--	6,250	7,010	6,790	--	--
1,258	--	--	--	6,260	--	--	--	6,250	7,010	6,790	--	--
1,258	--	--	--	6,260	--	--	--	6,250	7,010	6,410	--	--
1,258	--	--	--	6,260	--	--	--	6,250	7,010	7,070	--	--
1,258	--	--	--	6,260	--	--	--	6,250	7,010	7,070	--	--
1,429	--	--	--	7,330	--	--	--	7,310	7,970	7,650	--	--
1,429	--	--	--	7,120	--	--	--	7,100	7,970	7,690	--	--
1,429	--	--	--	7,120	--	--	--	7,100	7,970	7,690	--	--
1,544	--	--	--	7,910	--	--	--	7,890	8,610	8,280	--	--
1,601	--	--	--	7,970	--	--	--	7,950	8,930	8,610	--	--
1,715	--	--	--	8,540	--	--	--	8,520	9,560	9,230	--	--
715	493	--	796	3,580	3,580	--	3,580	3,570	3,990	3,560	11.750	11.250
715	528	--	931	3,580	3,580	--	3,580	3,570	3,990	4,510	11.750	11.250
715	528	--	931	3,580	3,580	--	3,580	3,570	3,990	4,510	11.750	11.250
1,040	692	--	1,063	5,210	5,210	--	5,210	5,200	5,810	5,510	11.750	11.250
1,040	692	--	1,063	5,210	5,210	--	5,210	5,200	5,810	5,510	11.750	11.250
1,040	692	--	1,063	5,210	5,210	--	5,210	5,200	5,810	5,510	11.750	11.250
1,106	725	--	1,089	5,690	5,690	--	5,690	5,680	6,340	5,700	11.750	11.250
1,040	701	--	1,097	5,210	5,210	--	5,210	5,200	5,810	5,800	11.750	11.250
1,040	701	--	1,097	5,210	5,210	--	5,210	5,200	5,810	5,800	11.750	11.250
1,236	808	--	1,209	6,360	6,360	--	6,360	6,340	7,090	6,350	11.750	11.250
1,171	--	--	--	5,860	--	--	--	5,840	6,530	6,430	--	--
1,171	--	--	--	5,860	--	--	--	5,840	6,530	6,430	--	--
1,236	--	--	--	6,190	--	--	--	6,170	6,890	6,140	--	--
1,236	--	--	--	6,190	--	--	--	6,170	6,890	6,770	--	--
1,236	--	--	--	6,190	--	--	--	6,170	6,890	6,770	--	--
1,301	--	--	--	6,510	--	--	--	6,490	7,260	7,110	--	--
1,301	--	--	--	6,510	--	--	--	6,490	7,260	7,110	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	7,470	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	7,800	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	7,800	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	7,800	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	7,360	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	8,120	--	--
1,431	--	--	--	7,160	--	--	--	7,140	7,980	8,120	--	--
1,626	--	--	--	8,370	--	--	--	8,350	9,070	8,770	--	--
1,626	--	--	--	8,140	--	--	--	8,120	9,070	8,840	--	--
1,626	--	--	--	8,140	--	--	--	8,120	9,070	8,840	--	--
1,756	--	--	--	9,040	--	--	--	9,020	9,800	9,500	--	--
1,821	--	--	--	9,120	--	--	--	9,090	10,160	9,890	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
10 3/4	45.50	44.26	0.400	9.950	9.794	9.875	USS V150	2,610
10 3/4	51.00	49.55	0.450	9.850	9.694	--	J55	2,700
10 3/4	51.00	49.55	0.450	9.850	9.694	--	K55	2,700
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS HCK55	4,040
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS GT80S	3,220
10 3/4	51.00	49.55	0.450	9.850	9.694	--	L80	3,220
10 3/4	51.00	49.55	0.450	9.850	9.694	--	L80 HC	3,890
10 3/4	51.00	49.55	0.450	9.850	9.694	--	L80 HP	4,130
10 3/4	51.00	49.55	0.450	9.850	9.694	--	N80	3,220
10 3/4	51.00	49.55	0.450	9.850	9.694	--	N80 HC	4,030
10 3/4	51.00	49.55	0.450	9.850	9.694	--	N80 HP	4,300
10 3/4	51.00	49.55	0.450	9.850	9.694	--	C90	3,400
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS C90	3,400
10 3/4	51.00	49.55	0.450	9.850	9.694	--	R95	3,480
10 3/4	51.00	49.55	0.450	9.850	9.694	--	T95	3,480
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS C95	3,480
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS C100	3,550
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS RYS100	3,550
10 3/4	51.00	49.55	0.450	9.850	9.694	--	C110	3,660
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS C110	3,660
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS RYH110	3,660
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS RYS110	3,660
10 3/4	51.00	49.55	0.450	9.850	9.694	--	P110 SR16	3,660
10 3/4	51.00	49.55	0.450	9.850	9.694	--	P110	3,660
10 3/4	51.00	49.55	0.450	9.850	9.694	--	P110 HC	4,390
10 3/4	51.00	49.55	0.450	9.850	9.694	--	P110 HP	4,670
10 3/4	51.00	49.55	0.450	9.850	9.694	--	Q125	3,740
10 3/4	51.00	49.55	0.450	9.850	9.694	--	Q125 HC	4,470
10 3/4	51.00	49.55	0.450	9.850	9.694	--	Q125 HP	4,750
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS 140	3,750
10 3/4	51.00	49.55	0.450	9.850	9.694	--	USS V150	3,750
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	J55	3,390
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	K55	3,390
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS HCK55	4,780
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS GT80S	4,020
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	L80	4,020
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	L80 HC	4,790
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	L80 HP	5,080
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	N80	4,020
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	N80 HC	5,000
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	N80 HP	5,350
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	C90	4,160
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS C90	4,160
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	R95	4,290
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	T95	4,290

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,951	--	--	--	9,770	--	--	--	9,740	10,880	10,600	--	--
801	565	--	891	4,030	4,030	--	4,030	4,020	4,470	4,020	11.750	11.250
801	606	--	1,043	4,030	4,030	--	4,030	4,020	4,470	5,100	11.750	11.250
801	606	--	1,043	4,030	4,030	--	4,030	4,020	4,470	5,100	11.750	11.250
1,165	794	--	1,190	5,860	5,860	--	5,860	5,840	6,500	6,230	11.750	11.250
1,165	794	--	1,190	5,860	5,860	--	5,860	5,840	6,500	6,230	11.750	11.250
1,165	794	--	1,190	5,860	5,860	--	5,860	5,840	6,500	6,230	11.750	11.250
1,238	831	--	1,219	6,400	6,400	--	6,400	6,380	7,110	6,440	11.750	11.250
1,165	804	--	1,228	5,860	5,860	--	5,860	5,840	6,500	6,550	11.750	11.250
1,165	804	--	1,228	5,860	5,860	--	5,860	5,840	6,500	6,550	11.750	11.250
1,383	927	--	1,354	7,160	7,160	--	7,160	7,130	7,940	7,170	11.750	11.250
1,310	879	--	1,287	6,600	6,600	--	6,600	6,570	7,320	7,270	11.750	11.250
1,310	879	--	1,287	6,600	6,600	--	6,600	6,570	7,320	7,270	11.750	11.250
1,383	927	--	1,354	6,960	6,960	--	6,960	6,940	7,720	6,930	11.750	11.250
1,383	927	--	1,354	6,960	6,960	--	6,960	6,940	7,720	7,650	11.750	11.250
1,383	927	--	1,354	6,960	6,960	--	6,960	6,940	7,720	7,650	11.750	11.250
1,456	954	--	1,345	7,330	7,330	--	7,330	7,310	8,130	7,310	11.750	11.250
1,456	954	--	1,345	7,330	7,330	--	7,330	7,310	8,130	7,310	11.750	11.250
1,602	--	--	--	8,060	--	--	--	8,040	8,940	8,440	--	--
1,602	--	--	--	8,060	--	--	--	8,040	8,940	8,810	--	--
1,602	--	--	--	8,060	--	--	--	8,040	8,940	8,810	--	--
1,602	--	--	--	8,060	--	--	--	8,040	8,940	8,810	--	--
1,602	1,079	--	1,594	8,060	8,060	--	8,060	8,040	8,940	8,320	11.750	11.250
1,602	1,079	--	1,594	8,060	8,060	--	8,060	8,040	8,940	9,180	11.750	11.250
1,602	1,079	--	1,594	8,060	8,060	--	8,060	8,040	8,940	9,180	11.750	11.250
1,820	1,202	--	1,720	9,420	9,420	--	9,420	9,380	10,450	9,910	11.750	11.250
1,820	1,212	--	1,758	9,160	9,160	--	9,160	9,130	10,160	9,990	11.750	--
1,820	1,212	--	1,758	9,160	9,160	--	9,160	9,130	10,160	9,990	11.750	--
1,966	1,297	--	1,854	10,170	10,170	--	10,170	10,140	11,290	10,730	11.750	--
2,039	1,355	--	1,959	10,260	10,260	--	10,260	10,230	11,380	11,180	11.750	--
2,184	1,450	--	2,094	11,000	11,000	--	11,000	10,960	12,190	11,980	11.750	--
877	--	--	--	4,430	--	--	--	4,410	4,900	4,430	--	--
877	--	--	--	4,430	--	--	--	4,410	4,900	5,620	--	--
877	675	--	1,142	4,430	4,430	--	4,430	4,410	4,900	5,620	11.750	11.250
1,276	884	--	1,303	6,440	6,440	--	6,440	6,420	7,130	6,860	11.750	11.250
1,276	884	--	1,303	6,440	6,440	--	6,440	6,420	7,130	6,860	11.750	11.250
1,276	884	--	1,303	6,440	6,440	--	6,440	6,420	7,130	6,860	11.750	11.250
1,355	926	--	1,335	7,050	7,050	--	7,050	7,020	7,790	7,110	11.750	11.250
1,276	895	--	1,345	6,440	6,440	--	6,440	6,420	7,130	7,230	11.750	11.250
1,276	895	--	1,345	6,440	6,440	--	6,440	6,420	7,130	7,230	11.750	11.250
1,515	1,032	--	1,483	7,880	7,880	--	7,880	7,850	8,700	7,920	11.750	11.250
1,435	979	--	1,409	7,250	7,250	--	7,250	7,220	8,020	8,020	11.750	11.250
1,435	979	--	1,409	7,250	7,250	--	7,250	7,220	8,020	8,020	11.750	11.250
1,515	1,032	--	1,483	7,650	7,650	--	7,650	7,620	8,460	7,640	11.750	11.250
1,515	1,032	--	1,483	7,650	7,650	--	7,650	7,620	8,460	8,440	11.750	11.250

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS C95	4,290
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS C100	4,410
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS RYS100	4,410
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	C110	4,610
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS C110	4,610
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS RYH110	4,610
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS RYS110	4,610
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	P110 SR16	4,610
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	P110	4,610
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	P110 HC	5,570
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	P110 HP	5,930
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	Q125	4,850
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	Q125 HC	5,710
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	Q125 HP	6,070
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS 140	4,990
10 3/4	55.50	54.26	0.495	9.760	9.604	9.625	USS V150	5,030
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS GT80S	5,160
10 3/4	60.70	59.45	0.545	9.660	9.504	--	L80	5,160
10 3/4	60.70	59.45	0.545	9.660	9.504	--	L80 HC	5,810
10 3/4	60.70	59.45	0.545	9.660	9.504	--	L80 HP	6,160
10 3/4	60.70	59.45	0.545	9.660	9.504	--	N80	5,160
10 3/4	60.70	59.45	0.545	9.660	9.504	--	N80 HC	6,110
10 3/4	60.70	59.45	0.545	9.660	9.504	--	N80 HP	6,550
10 3/4	60.70	59.45	0.545	9.660	9.504	--	C90	5,460
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS C90	5,460
10 3/4	60.70	59.45	0.545	9.660	9.504	--	R95	5,590
10 3/4	60.70	59.45	0.545	9.660	9.504	--	T95	5,590
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS C95	5,590
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS C100	5,700
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS RYS100	5,700
10 3/4	60.70	59.45	0.545	9.660	9.504	--	C110	5,880
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS C110	5,880
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS RYH110	5,880
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS RYS110	5,880
10 3/4	60.70	59.45	0.545	9.660	9.504	--	P110 SR16	5,880
10 3/4	60.70	59.45	0.545	9.660	9.504	--	P110	5,880
10 3/4	60.70	59.45	0.545	9.660	9.504	--	P110 HC	6,990
10 3/4	60.70	59.45	0.545	9.660	9.504	--	P110 HP	7,430
10 3/4	60.70	59.45	0.545	9.660	9.504	--	Q125	6,070
10 3/4	60.70	59.45	0.545	9.660	9.504	--	Q125 HC	7,210
10 3/4	60.70	59.45	0.545	9.660	9.504	--	Q125 HP	7,660
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS 140	6,390
10 3/4	60.70	59.45	0.545	9.660	9.504	--	USS V150	6,550
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS GT80S	6,300
10 3/4	65.70	64.59	0.595	9.560	9.404	--	L80	6,300

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises				Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC			psi		
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
1,515	1,032	--	1,483	7,650	7,650	--	7,650	7,620	8,460	8,440	11.750	11.250
1,595	1,063	--	1,474	8,060	8,060	--	8,060	8,020	8,910	8,060	11.750	11.250
1,595	1,063	--	1,474	8,060	8,060	--	8,060	8,020	8,910	8,060	11.750	11.250
1,754	--	--	--	8,860	--	--	--	8,830	9,800	9,310	--	--
1,754	--	--	--	8,860	--	--	--	8,830	9,800	9,720	--	--
1,754	--	--	--	8,860	--	--	--	8,830	9,800	9,720	--	--
1,754	--	--	--	8,860	--	--	--	8,830	9,800	9,720	--	--
1,754	1,202	--	1,745	8,860	8,860	--	8,860	8,830	9,800	9,170	11.750	11.250
1,754	1,202	--	1,745	8,860	8,860	--	8,860	8,830	9,800	10,120	11.750	11.250
1,754	1,202	--	1,745	8,860	8,860	--	8,860	8,830	9,800	10,120	11.750	11.250
1,993	1,339	--	1,883	10,370	10,370	--	10,370	10,330	11,450	10,960	11.750	11.250
1,993	1,350	--	1,925	10,070	10,070	--	10,070	10,030	11,140	11,010	11.750	--
1,993	1,350	--	1,925	10,070	10,070	--	10,070	10,030	11,140	11,010	11.750	--
2,153	1,445	--	2,031	11,200	11,200	--	11,200	11,150	12,370	11,860	11.750	--
2,233	1,509	--	2,146	11,280	11,280	--	11,280	11,230	12,470	12,330	11.750	--
2,392	1,616	--	2,293	12,080	12,080	--	12,080	12,030	13,360	13,220	11.750	--
1,398	983	--	1,428	7,100	7,100	--	7,100	7,060	7,810	7,590	11.750	11.250
1,398	983	--	1,428	7,100	7,100	--	7,100	7,060	7,810	7,590	11.750	11.250
1,398	983	--	1,428	7,100	7,100	--	7,100	7,060	7,810	7,590	11.750	11.250
1,485	1,030	--	1,463	7,760	7,760	--	7,760	7,720	8,540	7,860	11.750	11.250
1,398	996	--	1,473	7,100	7,100	--	7,100	7,060	7,810	7,990	11.750	11.250
1,398	996	--	1,473	7,100	7,100	--	7,100	7,060	7,810	7,990	11.750	11.250
1,660	1,148	--	1,625	8,680	8,180	--	7,990	8,630	9,540	8,750	11.750	11.250
1,573	1,089	--	1,544	7,990	7,990	--	7,990	7,950	8,790	8,870	11.750	11.250
1,573	1,089	--	1,544	7,990	7,990	--	7,990	7,950	8,790	8,870	11.750	11.250
1,660	1,148	--	1,625	8,430	8,430	--	8,430	8,390	9,280	8,450	11.750	11.250
1,660	1,148	--	1,625	8,430	8,430	--	8,430	8,390	9,280	9,330	11.750	11.250
1,660	1,148	--	1,625	8,430	8,430	--	8,430	8,390	9,280	9,330	11.750	11.250
1,747	1,182	--	1,615	8,870	8,870	--	8,870	8,830	9,770	8,910	11.750	11.250
1,747	1,182	--	1,615	8,870	8,870	--	8,870	8,830	9,770	8,910	11.750	11.250
1,922	--	--	--	9,760	--	--	--	9,710	10,740	10,300	--	--
1,922	--	--	--	9,760	--	--	--	9,710	10,740	10,750	--	--
1,922	--	--	--	9,760	--	--	--	9,710	10,740	10,750	--	--
1,922	--	--	--	9,760	--	--	--	9,710	10,740	10,750	--	--
1,922	1,337	--	1,912	9,760	9,760	--	9,760	9,710	10,740	10,140	11.750	11.250
1,922	1,337	--	1,912	9,760	9,760	--	9,760	9,710	10,740	11,200	11.750	11.250
1,922	1,337	--	1,912	9,760	9,760	--	9,760	9,710	10,740	11,200	11.750	11.250
2,184	1,489	--	2,064	11,420	11,280	--	10,980	11,360	12,550	12,110	11.750	11.250
2,184	1,502	--	2,109	11,090	11,090	--	11,090	11,040	12,210	12,180	11.750	--
2,184	1,502	--	2,109	11,090	11,090	--	11,090	11,040	12,210	12,180	11.750	--
2,359	1,608	--	2,225	12,330	12,330	--	12,330	12,270	13,560	13,110	11.750	--
2,446	1,679	--	2,351	12,420	12,420	--	12,420	12,360	13,670	13,640	11.750	--
2,621	1,797	--	2,513	13,310	13,310	--	13,310	13,250	14,650	14,620	11.750	--
1,519	1,082	--	1,551	7,750	7,750	--	7,750	7,710	8,490	8,320	11.750	11.250
1,519	1,082	--	1,551	7,750	7,750	--	7,750	7,710	8,490	8,320	11.750	11.250

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
10 3/4	65.70	64.59	0.595	9.560	9.404	--	L80 HC	6,820
10 3/4	65.70	64.59	0.595	9.560	9.404	--	L80 HP	7,230
10 3/4	65.70	64.59	0.595	9.560	9.404	--	N80	6,300
10 3/4	65.70	64.59	0.595	9.560	9.404	--	N80 HC	7,230
10 3/4	65.70	64.59	0.595	9.560	9.404	--	N80 HP	7,760
10 3/4	65.70	64.59	0.595	9.560	9.404	--	C90	6,760
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS C90	6,760
10 3/4	65.70	64.59	0.595	9.560	9.404	--	R95	6,960
10 3/4	65.70	64.59	0.595	9.560	9.404	--	T95	6,960
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS C95	6,960
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS C100	7,160
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS RYS100	7,160
10 3/4	65.70	64.59	0.595	9.560	9.404	--	C110	7,500
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS C110	7,500
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS RYH110	7,500
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS RYS110	7,500
10 3/4	65.70	64.59	0.595	9.560	9.404	--	P110 SR16	7,500
10 3/4	65.70	64.59	0.595	9.560	9.404	--	P110	7,500
10 3/4	65.70	64.59	0.595	9.560	9.404	--	P110 HC	8,470
10 3/4	65.70	64.59	0.595	9.560	9.404	--	P110 HP	9,010
10 3/4	65.70	64.59	0.595	9.560	9.404	--	Q125	7,920
10 3/4	65.70	64.59	0.595	9.560	9.404	--	Q125 HC	8,790
10 3/4	65.70	64.59	0.595	9.560	9.404	--	Q125 HP	9,340
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS 140	8,200
10 3/4	65.70	64.59	0.595	9.560	9.404	--	USS V150	8,320
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS GT80S	8,060
10 3/4	73.20	72.40	0.672	9.406	9.250	--	L80	8,060
10 3/4	73.20	72.40	0.672	9.406	9.250	--	L80 HC	8,820
10 3/4	73.20	72.40	0.672	9.406	9.250	--	L80 HP	9,330
10 3/4	73.20	72.40	0.672	9.406	9.250	--	N80	8,060
10 3/4	73.20	72.40	0.672	9.406	9.250	--	N80 HC	9,200
10 3/4	73.20	72.40	0.672	9.406	9.250	--	N80 HP	10,000
10 3/4	73.20	72.40	0.672	9.406	9.250	--	C90	8,760
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS C90	8,760
10 3/4	73.20	72.40	0.672	9.406	9.250	--	T95	9,090
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS C95	9,090
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS C100	9,410
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS RYS100	9,410
10 3/4	73.20	72.40	0.672	9.406	9.250	--	C110	10,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS C110	10,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS RYH110	10,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS RYS110	10,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	P110 SR16	10,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	P110	10,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	P110 HC	10,790

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,519	1,082	--	1,551	7,750	7,750	--	7,750	7,710	8,490	8,320	11.750	11.250		
1,613	1,133	--	1,590	8,480	8,180	--	7,990	8,420	9,280	8,610	11.750	11.250		
1,519	1,096	--	1,600	7,750	7,750	--	7,750	7,710	8,490	8,760	11.750	11.250		
1,519	1,096	--	1,600	7,750	7,750	--	7,750	7,710	8,490	8,760	11.750	11.250		
1,803	1,263	--	1,765	9,470	8,180	--	7,990	9,410	10,370	9,590	11.750	11.250		
1,708	1,198	--	1,677	8,720	8,720	--	8,720	8,670	9,560	9,720	11.750	11.250		
1,708	1,198	--	1,677	8,720	8,720	--	8,720	8,670	9,560	9,720	11.750	11.250		
1,803	1,263	--	1,765	9,210	9,210	--	9,210	9,150	10,090	9,270	11.750	11.250		
1,803	1,263	--	1,765	9,210	9,210	--	9,210	9,150	10,090	10,240	11.750	11.250		
1,803	1,263	--	1,765	9,210	9,210	--	9,210	9,150	10,090	10,240	11.750	11.250		
1,898	1,300	--	1,754	9,690	9,690	--	9,690	9,640	10,620	9,770	11.750	11.250		
1,898	1,300	--	1,754	9,690	9,690	--	9,690	9,640	10,620	9,770	11.750	11.250		
2,088	--	--	--	10,660	--	--	--	10,600	11,680	11,300	--	--		
2,088	--	--	--	10,660	--	--	--	10,600	11,680	11,790	--	--		
2,088	--	--	--	10,660	--	--	--	10,600	11,680	11,790	--	--		
2,088	--	--	--	10,660	--	--	--	10,600	11,680	11,790	--	--		
2,088	1,471	--	2,077	10,660	10,660	--	10,660	10,600	11,680	11,110	11.750	11.250		
2,088	1,471	--	2,077	10,660	10,660	--	10,660	10,600	11,680	12,280	11.750	11.250		
2,088	1,471	--	2,077	10,660	10,660	--	10,660	10,600	11,680	12,280	11.750	11.250		
2,373	1,639	--	2,242	12,470	11,280	--	10,980	12,390	13,640	13,280	11.750	11.250		
2,373	1,652	--	2,291	12,120	12,120	--	12,120	12,040	13,270	13,360	11.750	--		
2,373	1,652	--	2,291	12,120	12,120	--	12,120	12,040	13,270	13,360	11.750	--		
2,563	1,768	--	2,417	13,460	12,820	--	12,480	13,380	14,730	14,370	11.750	--		
2,657	1,847	--	2,554	13,570	13,570	--	13,570	13,490	14,870	14,960	11.750	--		
2,847	1,977	--	2,730	14,540	14,540	--	14,540	14,450	15,930	16,030	11.750	--		
1,702	--	--	--	8,750	--	--	--	8,690	9,530	9,440	--	--		
1,702	--	--	--	8,750	--	--	--	8,690	9,530	9,440	--	--		
1,702	--	--	--	8,750	--	--	--	8,690	9,530	9,440	--	--		
1,808	--	--	--	9,570	--	--	--	9,490	10,130	9,780	--	--		
1,702	--	--	--	8,750	--	--	--	8,690	9,530	9,940	--	--		
1,702	--	--	--	8,750	--	--	--	8,690	9,530	9,940	--	--		
2,021	--	--	--	10,690	--	--	--	10,610	11,320	10,890	--	--		
1,915	--	--	--	9,850	--	--	--	9,770	10,720	11,040	--	--		
1,915	--	--	--	9,850	--	--	--	9,770	10,720	11,040	--	--		
2,021	--	--	--	10,390	--	--	--	10,310	11,320	11,620	--	--		
2,021	--	--	--	10,390	--	--	--	10,310	11,320	11,620	--	--		
2,128	--	--	--	10,940	--	--	--	10,860	11,910	11,100	--	--		
2,128	--	--	--	10,940	--	--	--	10,860	11,910	11,100	--	--		
2,340	--	--	--	12,030	--	--	--	11,940	13,100	12,830	--	--		
2,340	--	--	--	12,030	--	--	--	11,940	13,100	13,380	--	--		
2,340	--	--	--	12,030	--	--	--	11,940	13,100	13,380	--	--		
2,340	--	--	--	12,030	--	--	--	11,940	13,100	13,380	--	--		
2,340	1,675	--	2,328	12,030	11,280	--	10,980	11,940	13,100	12,610	11.750	11.250		
2,340	1,675	--	2,328	12,030	11,280	--	10,980	11,940	13,100	13,940	11.750	11.250		
2,340	1,675	--	2,328	12,030	11,280	--	10,980	11,940	13,100	13,940	11.750	11.250		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
10 3/4	73.20	72.40	0.672	9.406	9.250	--	P110 HP	11,480
10 3/4	73.20	72.40	0.672	9.406	9.250	--	Q125	10,810
10 3/4	73.20	72.40	0.672	9.406	9.250	--	Q125 HC	11,300
10 3/4	73.20	72.40	0.672	9.406	9.250	--	Q125 HP	12,010
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS 140	11,510
10 3/4	73.20	72.40	0.672	9.406	9.250	--	USS V150	11,900
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS GT80S	9,480
10 3/4	79.20	78.59	0.734	9.282	9.126	--	L80	9,480
10 3/4	79.20	78.59	0.734	9.282	9.126	--	L80 HC	10,050
10 3/4	79.20	78.59	0.734	9.282	9.126	--	L80 HP	10,590
10 3/4	79.20	78.59	0.734	9.282	9.126	--	N80	9,480
10 3/4	79.20	78.59	0.734	9.282	9.126	--	N80 HC	10,520
10 3/4	79.20	78.59	0.734	9.282	9.126	--	N80 HP	11,440
10 3/4	79.20	78.59	0.734	9.282	9.126	--	C90	10,370
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS C90	10,370
10 3/4	79.20	78.59	0.734	9.282	9.126	--	T95	10,800
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS C95	10,800
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS C100	11,220
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS RYS100	11,220
10 3/4	79.20	78.59	0.734	9.282	9.126	--	C110	12,020
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS C110	12,020
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS RYH110	12,020
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS RYS110	12,020
10 3/4	79.20	78.59	0.734	9.282	9.126	--	P110 SR16	12,020
10 3/4	79.20	78.59	0.734	9.282	9.126	--	P110	12,020
10 3/4	79.20	78.59	0.734	9.282	9.126	--	P110 HC	12,640
10 3/4	79.20	78.59	0.734	9.282	9.126	--	P110 HP	13,450
10 3/4	79.20	78.59	0.734	9.282	9.126	--	Q125	13,150
10 3/4	79.20	78.59	0.734	9.282	9.126	--	Q125 HC	13,330
10 3/4	79.20	78.59	0.734	9.282	9.126	--	Q125 HP	14,150
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS 140	14,170
10 3/4	79.20	78.59	0.734	9.282	9.126	--	USS V150	14,790
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS GT80S	10,920
10 3/4	85.30	84.80	0.797	9.156	9.000	--	L80	10,920
10 3/4	85.30	84.80	0.797	9.156	9.000	--	L80 HC	11,260
10 3/4	85.30	84.80	0.797	9.156	9.000	--	L80 HP	11,830
10 3/4	85.30	84.80	0.797	9.156	9.000	--	N80	10,920
10 3/4	85.30	84.80	0.797	9.156	9.000	--	N80 HC	11,820
10 3/4	85.30	84.80	0.797	9.156	9.000	--	N80 HP	12,850
10 3/4	85.30	84.80	0.797	9.156	9.000	--	C90	12,010
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS C90	12,010
10 3/4	85.30	84.80	0.797	9.156	9.000	--	T95	12,540
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS C95	12,540
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS C100	13,060
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS RYS100	13,060

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
2,660	1,865	--	2,443	14,070	11,280	--	10,980	13,960	15,300	15,080	11.750	11.250		
2,660	1,881	--	2,568	13,670	12,820	--	12,480	13,570	14,890	15,170	11.750	--		
2,660	1,881	--	2,568	13,670	12,820	--	12,480	13,570	14,890	15,170	11.750	--		
2,872	2,013	--	2,638	15,200	12,820	--	12,480	15,070	16,530	16,320	11.750	--		
2,979	2,103	--	2,863	15,320	14,360	--	13,980	15,200	16,680	16,980	11.750	--		
3,191	2,251	--	3,060	16,410	15,380	--	14,970	16,290	17,870	18,210	11.750	--		
1,848	--	--	--	9,560	--	--	--	9,470	10,350	10,360	--	--		
1,848	--	--	--	9,560	--	--	--	9,470	10,350	10,360	--	--		
1,848	--	--	--	9,560	--	--	--	9,470	10,350	10,360	--	--		
1,963	--	--	--	10,450	--	--	--	10,350	11,000	10,730	--	--		
1,848	--	--	--	9,560	--	--	--	9,470	10,350	10,900	--	--		
1,848	--	--	--	9,560	--	--	--	9,470	10,350	10,900	--	--		
2,194	--	--	--	11,680	--	--	--	11,570	12,300	11,950	--	--		
2,079	--	--	--	10,750	--	--	--	10,650	11,650	12,120	--	--		
2,079	--	--	--	10,750	--	--	--	10,650	11,650	12,120	--	--		
2,194	--	--	--	11,350	--	--	--	11,240	12,300	12,750	--	--		
2,194	--	--	--	11,350	--	--	--	11,240	12,300	12,750	--	--		
2,310	--	--	--	11,940	--	--	--	11,840	12,940	12,180	--	--		
2,310	--	--	--	11,940	--	--	--	11,840	12,940	12,180	--	--		
2,541	--	--	--	13,140	--	--	--	13,020	14,240	14,070	--	--		
2,541	--	--	--	13,140	--	--	--	13,020	14,240	14,690	--	--		
2,541	--	--	--	13,140	--	--	--	13,020	14,240	14,690	--	--		
2,541	--	--	--	13,140	--	--	--	13,020	14,240	14,690	--	--		
2,541	1,836	--	2,443	13,140	11,280	--	10,980	13,020	14,240	13,830	11.750	11.250		
2,541	1,836	--	2,443	13,140	11,280	--	10,980	13,020	14,240	15,300	11.750	11.250		
2,541	1,836	--	2,443	13,140	11,280	--	10,980	13,020	14,240	15,300	11.750	11.250		
2,887	2,045	--	2,443	15,370	11,280	--	10,980	15,230	16,630	16,560	11.750	11.250		
2,887	2,062	--	2,638	14,930	12,820	--	12,480	14,800	16,180	16,650	11.750	--		
2,887	2,062	--	2,638	14,930	12,820	--	12,480	14,800	16,180	16,650	11.750	--		
3,118	2,207	--	2,638	16,600	12,820	--	12,480	16,440	17,960	17,930	11.750	--		
3,233	2,305	--	2,931	16,720	14,360	--	13,980	16,570	18,120	18,640	11.750	--		
3,464	2,468	--	3,126	17,920	15,380	--	14,970	17,750	19,420	19,980	11.750	--		
1,994	--	--	--	10,370	--	--	--	10,260	11,180	11,290	--	--		
1,994	--	--	--	10,370	--	--	--	10,260	11,180	11,290	--	--		
1,994	--	--	--	10,370	--	--	--	10,260	11,180	11,290	--	--		
2,118	--	--	--	11,340	--	--	--	11,210	11,880	11,700	--	--		
1,994	--	--	--	10,370	--	--	--	10,260	11,180	11,890	--	--		
1,994	--	--	--	10,370	--	--	--	10,260	11,180	11,890	--	--		
2,367	--	--	--	12,670	--	--	--	12,530	13,280	13,020	--	--		
2,243	--	--	--	11,670	--	--	--	11,550	12,580	13,220	--	--		
2,243	--	--	--	11,670	--	--	--	11,550	12,580	13,220	--	--		
2,367	--	--	--	12,320	--	--	--	12,190	13,280	13,920	--	--		
2,367	--	--	--	12,320	--	--	--	12,190	13,280	13,920	--	--		
2,492	--	--	--	12,970	--	--	--	12,830	13,980	13,290	--	--		
2,492	--	--	--	12,970	--	--	--	12,830	13,980	13,290	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
10 3/4	85.30	84.80	0.797	9.156	9.000	--	C110	14,070
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS C110	14,070
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS RYH110	14,070
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS RYS110	14,070
10 3/4	85.30	84.80	0.797	9.156	9.000	--	P110 SR16	14,070
10 3/4	85.30	84.80	0.797	9.156	9.000	--	P110	14,070
10 3/4	85.30	84.80	0.797	9.156	9.000	--	P110 HC	14,900
10 3/4	85.30	84.80	0.797	9.156	9.000	--	P110 HP	16,040
10 3/4	85.30	84.80	0.797	9.156	9.000	--	Q125	15,520
10 3/4	85.30	84.80	0.797	9.156	9.000	--	Q125 HC	15,820
10 3/4	85.30	84.80	0.797	9.156	9.000	--	Q125 HP	17,000
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS 140	16,880
10 3/4	85.30	84.80	0.797	9.156	9.000	--	USS V150	17,720
11 3/4	42.00	40.64	0.333	11.084	10.928	11.000	H40	1,040
11 3/4	47.00	45.60	0.375	11.000	10.844	--	J55	1,510
11 3/4	47.00	45.60	0.375	11.000	10.844	--	K55	1,510
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS HCK55	1,790
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS GT80S	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	L80	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	L80 HC	2,020
11 3/4	47.00	45.60	0.375	11.000	10.844	--	L80 HP	2,230
11 3/4	47.00	45.60	0.375	11.000	10.844	--	N80	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	N80 HC	2,030
11 3/4	47.00	45.60	0.375	11.000	10.844	--	N80 HP	2,210
11 3/4	47.00	45.60	0.375	11.000	10.844	--	C90	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS C90	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	R95	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	T95	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS C95	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS C100	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS RYS100	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	C110	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS C110	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS RYH110	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS RYS110	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	P110 SR16	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	P110	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	P110 HC	2,100
11 3/4	47.00	45.60	0.375	11.000	10.844	--	P110 HP	2,280
11 3/4	47.00	45.60	0.375	11.000	10.844	--	Q125	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	Q125 HC	2,120
11 3/4	47.00	45.60	0.375	11.000	10.844	--	Q125 HP	2,300
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS 140	1,630
11 3/4	47.00	45.60	0.375	11.000	10.844	--	USS V150	1,630
11 3/4	54.00	52.62	0.435	10.880	10.724	--	J55	2,070

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	15,360	--	--			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	16,030	--	--			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	16,030	--	--			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	16,030	--	--			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	15,090	--	--			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	16,690	--	--			
2,741	--	--	--	14,260	--	--	--	14,110	15,380	16,690	--	--			
3,115	--	--	--	16,670	--	--	--	16,490	17,470	18,060	--	--			
3,115	--	--	--	16,210	--	--	--	16,040	17,470	18,170	--	--			
3,115	--	--	--	16,210	--	--	--	16,040	17,470	18,170	--	--			
3,364	--	--	--	18,010	--	--	--	17,810	18,870	19,550	--	--			
3,489	--	--	--	18,150	--	--	--	17,960	19,570	20,340	--	--			
3,738	--	--	--	19,450	--	--	--	19,240	20,970	21,800	--	--			
478	307	--	--	1,980	1,980	--	--	1,980	2,230	2,140	12.750	--			
737	477	--	807	3,070	3,070	--	3,070	3,060	3,440	3,040	12.750	--			
737	509	--	935	3,070	3,070	--	3,070	3,060	3,440	3,860	12.750	--			
737	509	--	935	3,070	3,070	--	3,070	3,060	3,440	3,860	12.750	--			
1,072	--	--	--	4,470	--	--	--	4,460	5,000	4,710	--	--			
1,072	--	--	--	4,470	--	--	--	4,460	5,000	4,710	--	--			
1,072	--	--	--	4,470	--	--	--	4,460	5,000	4,710	--	--			
1,139	--	--	--	4,890	--	--	--	4,880	5,320	4,880	--	--			
1,072	--	--	--	4,470	--	--	--	4,460	5,000	4,950	--	--			
1,072	--	--	--	4,470	--	--	--	4,460	5,000	4,950	--	--			
1,273	--	--	--	5,470	--	--	--	5,450	5,940	5,430	--	--			
1,206	--	--	--	5,020	--	--	--	5,010	5,630	5,490	--	--			
1,206	--	--	--	5,020	--	--	--	5,010	5,630	5,490	--	--			
1,273	--	--	--	5,300	--	--	--	5,290	5,940	5,240	--	--			
1,273	--	--	--	5,300	--	--	--	5,290	5,940	5,780	--	--			
1,273	--	--	--	5,300	--	--	--	5,290	5,940	5,780	--	--			
1,340	--	--	--	5,580	--	--	--	5,570	6,250	6,070	--	--			
1,340	--	--	--	5,580	--	--	--	5,570	6,250	6,070	--	--			
1,474	--	--	--	6,140	--	--	--	6,130	6,880	6,380	--	--			
1,474	--	--	--	6,140	--	--	--	6,130	6,880	6,650	--	--			
1,474	--	--	--	6,140	--	--	--	6,130	6,880	6,650	--	--			
1,474	--	--	--	6,140	--	--	--	6,130	6,880	6,280	--	--			
1,474	--	--	--	6,140	--	--	--	6,130	6,880	6,930	--	--			
1,474	--	--	--	6,140	--	--	--	6,130	6,880	6,930	--	--			
1,675	--	--	--	7,190	--	--	--	7,180	7,820	7,500	--	--			
1,675	--	--	--	6,980	--	--	--	6,970	7,820	7,540	--	--			
1,675	--	--	--	6,980	--	--	--	6,970	7,820	7,540	--	--			
1,809	--	--	--	7,770	--	--	--	7,750	8,440	8,120	--	--			
1,876	--	--	--	7,820	--	--	--	7,800	8,760	8,440	--	--			
2,010	--	--	--	8,370	--	--	--	8,360	9,380	9,050	--	--			
850	568	--	931	3,570	3,570	--	3,570	3,560	3,970	3,550	12.750	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
11 3/4	54.00	52.62	0.435	10.880	10.724	--	K55	2,070
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS HCK55	2,790
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS GT80S	2,440
11 3/4	54.00	52.62	0.435	10.880	10.724	--	L80	2,440
11 3/4	54.00	52.62	0.435	10.880	10.724	--	L80 HC	2,990
11 3/4	54.00	52.62	0.435	10.880	10.724	--	L80 HP	3,290
11 3/4	54.00	52.62	0.435	10.880	10.724	--	N80	2,440
11 3/4	54.00	52.62	0.435	10.880	10.724	--	N80 HC	3,030
11 3/4	54.00	52.62	0.435	10.880	10.724	--	N80 HP	3,300
11 3/4	54.00	52.62	0.435	10.880	10.724	--	C90	2,530
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS C90	2,530
11 3/4	54.00	52.62	0.435	10.880	10.724	--	R95	2,550
11 3/4	54.00	52.62	0.435	10.880	10.724	--	T95	2,550
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS C95	2,550
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS C100	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS RYS100	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	C110	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS C110	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS RYH110	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS RYS110	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	P110 SR16	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	P110	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	P110 HC	3,200
11 3/4	54.00	52.62	0.435	10.880	10.724	--	P110 HP	3,470
11 3/4	54.00	52.62	0.435	10.880	10.724	--	Q125	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	Q125 HC	3,230
11 3/4	54.00	52.62	0.435	10.880	10.724	--	Q125 HP	3,510
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS 140	2,570
11 3/4	54.00	52.62	0.435	10.880	10.724	--	USS V150	2,570
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	J55	2,660
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	K55	2,660
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS HCK55	3,970
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS GT80S	3,180
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	L80	3,180
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	L80 HC	3,840
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	L80 HP	4,070
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	N80	3,180
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	N80 HC	3,970
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	N80 HP	4,240
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	C90	3,360
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS C90	3,360
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	R95	3,440
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	T95	3,440
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS C95	3,440
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS C100	3,500

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
850	606	--	1,079	3,570	3,570	--	3,570	3,560	3,970	4,500	12.750	--			
850	606	--	1,079	3,570	3,570	--	3,570	3,560	3,970	4,500	12.750	--			
1,237	--	--	--	5,190	--	--	--	5,170	5,780	5,490	--	--			
1,237	--	--	--	5,190	--	--	--	5,170	5,780	5,490	--	--			
1,237	--	--	--	5,190	--	--	--	5,170	5,780	5,490	--	--			
1,314	--	--	--	5,670	--	--	--	5,660	6,140	5,680	--	--			
1,237	--	--	--	5,190	--	--	--	5,170	5,780	5,780	--	--			
1,237	--	--	--	5,190	--	--	--	5,170	5,780	5,780	--	--			
1,469	--	--	--	6,340	--	--	--	6,320	6,860	6,320	--	--			
1,392	--	--	--	5,840	--	--	--	5,820	6,500	6,400	--	--			
1,392	--	--	--	5,840	--	--	--	5,820	6,500	6,400	--	--			
1,469	--	--	--	6,160	--	--	--	6,140	6,860	6,110	--	--			
1,469	--	--	--	6,160	--	--	--	6,140	6,860	6,740	--	--			
1,469	--	--	--	6,160	--	--	--	6,140	6,860	6,740	--	--			
1,546	--	--	--	6,490	--	--	--	6,470	7,220	7,080	--	--			
1,546	--	--	--	6,490	--	--	--	6,470	7,220	7,080	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	7,440	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	7,760	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	7,760	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	7,760	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	7,330	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	8,090	--	--			
1,701	--	--	--	7,130	--	--	--	7,110	7,940	8,090	--	--			
1,933	--	--	--	8,340	--	--	--	8,320	9,030	8,740	--	--			
1,933	--	--	--	8,110	--	--	--	8,080	9,030	8,800	--	--			
1,933	--	--	--	8,110	--	--	--	8,080	9,030	8,800	--	--			
2,088	--	--	--	9,010	--	--	--	8,980	9,750	9,460	--	--			
2,165	--	--	--	9,080	--	--	--	9,060	10,110	9,850	--	--			
2,319	--	--	--	9,730	--	--	--	9,700	10,830	10,560	--	--			
952	649	--	1,042	4,010	4,010	--	4,010	3,990	4,450	4,000	12.750	--			
952	693	--	1,208	4,010	4,010	--	4,010	3,990	4,450	5,060	12.750	--			
952	693	--	1,208	4,010	4,010	--	4,010	3,990	4,450	5,060	12.750	--			
1,384	913	--	1,399	5,830	5,830	--	5,830	5,810	6,470	6,190	12.750	--			
1,384	913	--	1,399	5,830	5,830	--	5,830	5,810	6,470	6,190	12.750	--			
1,384	913	--	1,399	5,830	5,830	--	5,830	5,810	6,470	6,190	12.750	--			
1,471	956	--	1,437	6,370	6,370	--	6,370	6,340	7,070	6,400	12.750	--			
1,384	924	--	1,440	5,830	5,830	--	5,830	5,810	6,470	6,510	12.750	--			
1,384	924	--	1,440	5,830	5,830	--	5,830	5,810	6,470	6,510	12.750	--			
1,644	1,066	--	1,596	7,110	7,110	--	7,110	7,090	7,900	7,120	12.750	--			
1,557	1,011	--	1,517	6,560	6,560	--	6,560	6,530	7,280	7,220	12.750	--			
1,557	1,011	--	1,517	6,560	6,560	--	6,560	6,530	7,280	7,220	12.750	--			
1,644	1,067	--	1,597	6,920	6,920	--	6,920	6,900	7,680	6,900	12.750	--			
1,644	1,066	--	1,596	6,920	6,920	--	6,920	6,900	7,680	7,600	12.750	--			
1,644	1,066	--	1,596	6,920	6,920	--	6,920	6,900	7,680	7,600	12.750	--			
1,730	1,099	--	1,593	7,290	7,290	--	7,290	7,260	8,080	7,260	12.750	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance	
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product		
	T&C	PE							
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS RYS100	3,500	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	C110	3,610	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS C110	3,610	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS RYH110	3,610	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS RYS110	3,610	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	P110 SR16	3,610	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	P110	3,610	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	P110 HC	4,320	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	P110 HP	4,600	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	Q125	3,680	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	Q125 HC	4,400	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	Q125 HP	4,680	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS 140	3,680	
11 3/4	60.00	58.87	0.489	10.772	10.616	10.625	USS V150	3,680	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	J55	3,300	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	K55	3,300	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS GT80S	3,870	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	L80	3,870	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	L80 HC	4,660	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.582	L80 HP	4,940	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	N80	3,870	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	N80 HC	4,860	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.582	N80 HP	5,190	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	C90	4,060	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS C90	4,060	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	R95	4,180	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	T95	4,180	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS C95	4,180	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS C100	4,290	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS RYS100	4,290	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	C110	4,480	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS C110	4,480	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS RYH110	4,480	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS RYS110	4,480	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	P110 SR16	4,480	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	P110	4,480	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	P110 HC	5,390	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.582	P110 HP	5,740	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	Q125	4,690	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	Q125 HC	5,520	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.582	Q125 HP	5,870	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS 140	4,810	
11 3/4	65.00	64.03	0.534	10.682	10.526	10.625	USS V150	4,840	
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS GT80S	4,870	
11 3/4	71.00	69.48	0.582	10.586	10.430	--	L80	4,870	

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,730	1,099	--	1,593	7,290	7,290	--	7,290	7,260	8,080	7,260	12.750	--		
1,903	--	--	--	8,010	--	--	--	7,990	8,890	8,390	--	--		
1,903	--	--	--	8,010	--	--	--	7,990	8,890	8,750	--	--		
1,903	--	--	--	8,010	--	--	--	7,990	8,890	8,750	--	--		
1,903	--	--	--	8,010	--	--	--	7,990	8,890	8,750	--	--		
1,903	1,242	--	1,877	8,010	8,010	--	8,010	7,990	8,890	8,260	12.750	--		
1,903	1,242	--	1,877	8,010	8,010	--	8,010	7,990	8,890	9,120	12.750	--		
1,903	1,242	--	1,877	8,010	8,010	--	8,010	7,990	8,890	9,120	12.750	--		
2,163	1,384	--	2,033	9,360	9,360	--	9,360	9,330	10,390	9,850	12.750	--		
2,163	1,395	--	2,074	9,110	9,110	--	9,110	9,080	10,100	9,920	12.750	--		
2,163	1,395	--	2,074	9,110	9,110	--	9,110	9,080	10,100	9,920	12.750	--		
2,336	1,494	--	2,192	10,110	10,110	--	10,110	10,070	11,220	10,660	12.750	--		
2,422	1,560	--	2,313	10,200	10,200	--	10,200	10,160	11,320	11,110	12.750	--		
2,595	1,670	--	2,473	10,930	10,930	--	10,930	10,890	12,130	11,910	12.750	--		
1,035	--	--	--	4,370	--	--	--	4,350	4,840	4,370	--	--		
1,035	--	--	--	4,370	--	--	--	4,350	4,840	5,540	--	--		
1,505	1,007	--	1,521	6,360	6,360	--	6,360	6,330	7,040	6,770	12.750	--		
1,505	1,007	--	1,521	6,360	6,360	--	6,360	6,330	7,040	6,770	12.750	--		
1,505	1,007	--	1,521	6,360	6,360	--	6,360	6,330	7,040	6,770	12.750	--		
1,599	1,055	--	1,563	6,960	6,960	--	6,960	6,930	7,690	7,010	12.750	--		
1,505	1,019	--	1,566	6,360	6,360	--	6,360	6,330	7,040	7,130	12.750	--		
1,505	1,019	--	1,566	6,360	6,360	--	6,360	6,330	7,040	7,130	12.750	--		
1,788	1,177	--	1,736	7,780	7,540	--	7,360	7,740	8,590	7,810	12.750	--		
1,693	1,116	--	1,650	7,150	7,150	--	7,150	7,130	7,920	7,910	12.750	--		
1,693	1,116	--	1,650	7,150	7,150	--	7,150	7,130	7,920	7,910	12.750	--		
1,788	1,177	--	1,737	7,550	7,550	--	7,550	7,520	8,360	7,550	12.750	--		
1,788	1,177	--	1,736	7,550	7,550	--	7,550	7,520	8,360	8,320	12.750	--		
1,788	1,177	--	1,736	7,550	7,550	--	7,550	7,520	8,360	8,320	12.750	--		
1,882	1,213	--	1,733	7,950	7,950	--	7,950	7,920	8,800	7,950	12.750	--		
1,882	1,213	--	1,733	7,950	7,950	--	7,950	7,920	8,800	7,950	12.750	--		
2,070	--	--	--	8,740	--	--	--	8,710	9,680	9,180	--	--		
2,070	--	--	--	8,740	--	--	--	8,710	9,680	9,580	--	--		
2,070	--	--	--	8,740	--	--	--	8,710	9,680	9,580	--	--		
2,070	--	--	--	8,740	--	--	--	8,710	9,680	9,580	--	--		
2,070	1,370	--	2,041	8,740	8,740	--	8,740	8,710	9,680	9,040	12.750	--		
2,070	1,370	--	2,041	8,740	8,740	--	8,740	8,710	9,680	9,980	12.750	--		
2,070	1,370	--	2,041	8,740	8,740	--	8,740	8,710	9,680	9,980	12.750	--		
2,352	1,527	--	2,211	10,230	10,230	--	10,120	10,190	11,310	10,810	12.750	--		
2,352	1,539	--	2,256	9,940	9,940	--	9,940	9,900	11,000	10,860	12.750	--		
2,352	1,539	--	2,256	9,940	9,940	--	9,940	9,900	11,000	10,860	12.750	--		
2,540	1,648	--	2,384	11,050	11,050	--	11,050	11,010	12,210	11,690	12.750	--		
2,634	1,721	--	2,516	11,130	11,130	--	11,130	11,080	12,320	12,160	12.750	--		
2,822	1,843	--	2,689	11,920	11,920	--	11,920	11,880	13,200	13,030	12.750	--		
1,634	1,107	--	1,651	6,930	6,930	--	6,930	6,900	7,640	7,400	12.750	--		
1,634	1,107	--	1,651	6,930	6,930	--	6,930	6,900	7,640	7,400	12.750	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
11 3/4	71.00	69.48	0.582	10.586	10.430	--	L80 HC	5,550
11 3/4	71.00	69.48	0.582	10.586	10.430	--	L80 HP	5,890
11 3/4	71.00	69.48	0.582	10.586	10.430	--	N80	4,870
11 3/4	71.00	69.48	0.582	10.586	10.430	--	N80 HC	5,830
11 3/4	71.00	69.48	0.582	10.586	10.430	--	N80 HP	6,250
11 3/4	71.00	69.48	0.582	10.586	10.430	--	C90	5,130
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS C90	5,130
11 3/4	71.00	69.48	0.582	10.586	10.430	--	R95	5,240
11 3/4	71.00	69.48	0.582	10.586	10.430	--	T95	5,240
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS C95	5,240
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS C100	5,330
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS RYS100	5,330
11 3/4	71.00	69.48	0.582	10.586	10.430	--	C110	5,470
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS C110	5,470
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS RYH110	5,470
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS RYS110	5,470
11 3/4	71.00	69.48	0.582	10.586	10.430	--	P110 SR16	5,470
11 3/4	71.00	69.48	0.582	10.586	10.430	--	P110	5,470
11 3/4	71.00	69.48	0.582	10.586	10.430	--	P110 HC	6,630
11 3/4	71.00	69.48	0.582	10.586	10.430	--	P110 HP	7,050
11 3/4	71.00	69.48	0.582	10.586	10.430	--	Q125	5,760
11 3/4	71.00	69.48	0.582	10.586	10.430	--	Q125 HC	6,820
11 3/4	71.00	69.48	0.582	10.586	10.430	--	Q125 HP	7,250
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS 140	6,040
11 3/4	71.00	69.48	0.582	10.586	10.430	--	USS V150	6,170
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS GT80S	6,750
11 3/4	80.50	79.58	0.672	10.406	10.250	--	L80	6,750
11 3/4	80.50	79.58	0.672	10.406	10.250	--	L80 HC	7,640
11 3/4	80.50	79.58	0.672	10.406	10.250	--	L80 HP	8,130
11 3/4	80.50	79.58	0.672	10.406	10.250	--	N80	6,750
11 3/4	80.50	79.58	0.672	10.406	10.250	--	N80 HC	7,930
11 3/4	80.50	79.58	0.672	10.406	10.250	--	N80 HP	8,630
11 3/4	80.50	79.58	0.672	10.406	10.250	--	C90	7,270
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS C90	7,270
11 3/4	80.50	79.58	0.672	10.406	10.250	--	R95	7,510
11 3/4	80.50	79.58	0.672	10.406	10.250	--	T95	7,510
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS C95	7,510
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS C100	7,730
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS RYS100	7,730
11 3/4	80.50	79.58	0.672	10.406	10.250	--	C110	8,140
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS C110	8,140
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS RYS110	8,140
11 3/4	80.50	79.58	0.672	10.406	10.250	--	P110 SR16	8,140
11 3/4	80.50	79.58	0.672	10.406	10.250	--	P110	8,140
11 3/4	80.50	79.58	0.672	10.406	10.250	--	P110 HC	9,070

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,634	1,107	--	1,651	6,930	6,930	--	6,930	6,900	7,640	7,400	12.750	--			
1,736	1,160	--	1,696	7,580	7,540	--	7,360	7,540	8,350	7,670	12.750	--			
1,634	1,120	--	1,700	6,930	6,930	--	6,930	6,900	7,640	7,790	12.750	--			
1,634	1,120	--	1,700	6,930	6,930	--	6,930	6,900	7,640	7,790	12.750	--			
1,940	1,293	--	1,884	8,470	7,540	--	7,360	8,430	9,330	8,540	12.750	--			
1,838	1,226	--	1,790	7,800	7,800	--	7,800	7,760	8,600	8,650	12.750	--			
1,838	1,226	--	1,790	7,800	7,800	--	7,800	7,760	8,600	8,650	12.750	--			
1,940	1,293	--	1,885	8,230	8,230	--	8,230	8,190	9,070	8,250	12.750	--			
1,940	1,293	--	1,884	8,230	8,230	--	8,230	8,190	9,070	9,100	12.750	--			
1,940	1,293	--	1,884	8,230	8,230	--	8,230	8,190	9,070	9,100	12.750	--			
2,042	1,333	--	1,881	8,660	8,660	--	8,660	8,620	9,550	8,690	12.750	--			
2,042	1,333	--	1,881	8,660	8,660	--	8,660	8,620	9,550	8,690	12.750	--			
2,246	--	--	--	9,530	--	--	--	9,480	10,510	10,040	--	--			
2,246	--	--	--	9,530	--	--	--	9,480	10,510	10,480	--	--			
2,246	--	--	--	9,530	--	--	--	9,480	10,510	10,480	--	--			
2,246	--	--	--	9,530	--	--	--	9,480	10,510	10,480	--	--			
2,246	1,506	--	2,215	9,530	9,530	--	9,530	9,480	10,510	9,890	12.750	--			
2,246	1,506	--	2,215	9,530	9,530	--	9,530	9,480	10,510	10,920	12.750	--			
2,246	1,506	--	2,215	9,530	9,530	--	9,530	9,480	10,510	10,920	12.750	--			
2,553	1,678	--	2,400	11,150	10,400	--	10,120	11,090	12,280	11,810	12.750	--			
2,553	1,692	--	2,448	10,830	10,830	--	10,830	10,780	11,940	11,880	12.750	--			
2,553	1,692	--	2,448	10,830	10,830	--	10,830	10,780	11,940	11,880	12.750	--			
2,757	1,812	--	2,588	12,040	11,810	--	11,500	11,980	13,260	12,790	12.750	--			
2,859	1,892	--	2,730	12,130	12,130	--	12,130	12,070	13,370	13,300	12.750	--			
3,063	2,025	--	2,919	13,000	13,000	--	13,000	12,930	14,330	14,260	12.750	--			
1,871	--	--	--	8,010	--	--	--	7,960	8,760	8,600	--	--			
1,871	--	--	--	8,010	--	--	--	7,960	8,760	8,600	--	--			
1,871	--	--	--	8,010	--	--	--	7,960	8,760	8,600	--	--			
1,988	--	--	--	8,750	--	--	--	8,690	9,310	8,910	--	--			
1,871	--	--	--	8,010	--	--	--	7,960	8,760	9,060	--	--			
1,871	--	--	--	8,010	--	--	--	7,960	8,760	9,060	--	--			
2,222	--	--	--	9,780	--	--	--	9,720	10,410	9,920	--	--			
2,105	1,431	--	2,050	9,010	8,480	--	8,280	8,950	9,860	10,060	12.750	--			
2,105	1,431	--	2,050	9,010	8,480	--	8,280	8,950	9,860	10,060	12.750	--			
2,222	1,509	--	2,159	9,510	8,950	--	8,740	9,450	10,410	9,590	12.750	--			
2,222	1,509	--	2,158	9,510	8,950	--	8,740	9,450	10,410	10,590	12.750	--			
2,222	1,509	--	2,158	9,510	8,950	--	8,740	9,450	10,410	10,590	12.750	--			
2,339	1,555	--	2,129	10,010	9,420	--	9,200	9,950	10,950	10,110	12.750	--			
2,339	1,555	--	2,129	10,010	9,420	--	9,200	9,950	10,950	10,110	12.750	--			
2,573	--	--	--	11,010	--	--	--	10,940	12,050	11,680	--	--			
2,573	--	--	--	11,010	--	--	--	10,940	12,050	12,190	--	--			
2,573	--	--	--	11,010	--	--	--	10,940	12,050	12,190	--	--			
2,573	--	--	--	11,010	--	--	--	10,940	12,050	11,490	--	--			
2,573	1,756	--	2,537	11,010	10,400	--	10,120	10,940	12,050	12,700	12.750	--			
2,573	1,756	--	2,537	11,010	10,400	--	10,120	10,940	12,050	12,700	12.750	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance	
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product		
	T&C	PE							
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi	
11 3/4	80.50	79.58	0.672	10.406	10.250	--	P110 HP	9,640	
11 3/4	80.50	79.58	0.672	10.406	10.250	--	Q125	8,660	
11 3/4	80.50	79.58	0.672	10.406	10.250	--	Q125 HC	9,430	
11 3/4	80.50	79.58	0.672	10.406	10.250	--	Q125 HP	10,020	
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS 140	9,050	
11 3/4	80.50	79.58	0.672	10.406	10.250	--	USS V150	9,240	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS GT80S	8,050	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	L80	8,050	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	L80 HC	8,810	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	L80 HP	9,320	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	N80	8,050	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	N80 HC	9,190	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	N80 HP	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	C90	8,750	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS C90	8,750	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	R95	9,080	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	T95	9,080	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS C95	9,080	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS C100	9,390	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS RYS100	9,390	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	C110	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS C110	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS RYH110	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS RYS110	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	P110 SR16	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	P110	9,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	P110 HC	10,780	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	P110 HP	11,470	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	Q125	10,800	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	Q125 HC	11,290	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	Q125 HP	11,990	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS 140	11,490	
11 3/4	87.20	86.44	0.734	10.282	10.126	--	USS V150	11,880	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	K55	3,880	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS GT80S	4,750	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	L80	4,750	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	L80 HC	5,440	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.610	L80 HP	5,770	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	N80	4,750	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	N80 HC	5,710	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.610	N80 HP	6,110	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	C90	4,990	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS C90	4,990	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	R95	5,090	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	T95	5,090	

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
2,923	1,958	--	2,661	12,870	10,400	--	10,120	12,790	14,070	13,730	12.750	--		
2,923	1,974	--	2,804	12,510	11,810	--	11,500	12,430	13,690	13,820	12.750	--		
2,923	1,974	--	2,804	12,510	11,810	--	11,500	12,430	13,690	13,820	12.750	--		
3,157	2,114	--	2,874	13,900	11,810	--	11,500	13,810	15,200	14,860	12.750	--		
3,274	2,207	--	3,127	14,010	13,230	--	12,880	13,920	15,330	15,470	12.750	--		
3,508	2,362	--	3,343	15,010	14,180	--	13,800	14,920	16,430	16,580	12.750	--		
2,032	--	--	--	8,740	--	--	--	8,680	9,520	9,430	--	--		
2,032	--	--	--	8,740	--	--	--	8,680	9,520	9,430	--	--		
2,032	--	--	--	8,740	--	--	--	8,680	9,520	9,430	--	--		
2,159	--	--	--	9,560	--	--	--	9,490	10,120	9,770	--	--		
2,032	--	--	--	8,740	--	--	--	8,680	9,520	9,930	--	--		
2,032	--	--	--	8,740	--	--	--	8,680	9,520	9,930	--	--		
2,413	--	--	--	10,690	--	--	--	10,600	11,310	10,880	--	--		
2,286	1,570	--	2,129	9,830	8,480	--	8,280	9,760	10,720	11,030	12.750	--		
2,286	1,570	--	2,129	9,830	8,480	--	8,280	9,760	10,720	11,030	12.750	--		
2,413	1,655	--	2,238	10,380	8,950	--	8,740	10,300	11,310	10,510	12.750	--		
2,413	1,655	--	2,236	10,380	8,950	--	8,740	10,300	11,310	11,610	12.750	--		
2,413	1,655	--	2,236	10,380	8,950	--	8,740	10,300	11,310	11,610	12.750	--		
2,540	1,706	--	2,129	10,930	9,420	--	9,200	10,850	11,910	11,080	12.750	--		
2,540	1,706	--	2,129	10,930	9,420	--	9,200	10,850	11,910	11,080	12.750	--		
2,794	--	--	--	12,020	--	--	--	11,930	13,100	12,810	--	--		
2,794	--	--	--	12,020	--	--	--	11,930	13,100	13,370	--	--		
2,794	--	--	--	12,020	--	--	--	11,930	13,100	13,370	--	--		
2,794	--	--	--	12,020	--	--	--	11,930	13,100	13,370	--	--		
2,794	1,927	--	2,661	12,020	10,400	--	10,120	11,930	13,100	12,600	12.750	--		
2,794	1,927	--	2,661	12,020	10,400	--	10,120	11,930	13,100	13,930	12.750	--		
2,794	1,927	--	2,661	12,020	10,400	--	10,120	11,930	13,100	13,930	12.750	--		
3,175	2,148	--	2,661	14,060	10,400	--	10,120	13,950	15,290	15,080	12.750	--		
3,175	2,165	--	2,874	13,660	11,810	--	11,500	13,560	14,880	15,150	12.750	--		
3,175	2,165	--	2,874	13,660	11,810	--	11,500	13,560	14,880	15,150	12.750	--		
3,429	2,319	--	2,874	15,190	11,810	--	11,500	15,070	16,520	16,320	12.750	--		
3,556	2,421	--	3,194	15,300	13,230	--	12,880	15,180	16,670	16,960	12.750	--		
3,810	2,591	--	3,407	16,390	14,180	--	13,800	16,270	17,860	18,180	12.750	--		
1,136	742	--	1,279	4,710	4,710	--	4,710	4,690	5,200	5,990	12.750	--		
1,652	977	--	1,482	6,860	6,860	--	6,860	6,830	7,570	7,320	12.750	--		
1,652	977	--	1,482	6,860	6,860	--	6,860	6,830	7,570	7,320	12.750	--		
1,652	977	--	1,482	6,860	6,860	--	6,860	6,830	7,570	7,320	12.750	--		
1,755	1,024	--	1,523	7,500	7,500	--	7,360	7,460	8,260	7,580	12.750	--		
1,652	988	--	1,526	6,860	6,860	--	6,860	6,830	7,570	7,710	12.750	--		
1,652	988	--	1,526	6,860	6,860	--	6,860	6,830	7,570	7,710	12.750	--		
1,962	1,141	--	1,691	8,380	7,540	--	7,360	8,340	9,240	8,440	12.750	--		
1,858	1,082	--	1,607	7,720	7,720	--	7,720	7,680	8,510	8,550	12.750	--		
1,858	1,082	--	1,607	7,720	7,720	--	7,720	7,680	8,510	8,550	12.750	--		
1,962	1,141	--	1,692	8,140	8,140	--	8,140	8,110	8,980	8,160	12.750	--		
1,962	1,141	--	1,691	8,140	8,140	--	8,140	8,110	8,980	9,000	12.750	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance	
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product		
	T&C	PE							
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS C95	5,090	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS C100	5,170	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS RYS100	5,170	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	C110	5,290	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS C110	5,290	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS RYH110	5,290	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS RYS110	5,290	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	P110 SR16	5,290	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	P110	5,290	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	P110 HC	6,460	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.610	P110 HP	6,880	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	Q125	5,630	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	Q125 HC	6,650	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.610	Q125 HP	7,070	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS 140	5,880	
11 7/8	71.80	70.26	0.582	10.711	10.555	10.625	USS V150	6,000	
13 3/8	48.00	46.02	0.330	12.715	12.559	--	H40	740	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	J55	1,130	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	K55	1,130	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS HCK55	1,260	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS GT80S	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	L80	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	L80 HC	1,460	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	L80 HP	1,620	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	N80	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	N80 HC	1,470	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	N80 HP	1,590	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	C90	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS C90	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	R95	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	T95	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS C95	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS C100	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS RYS100	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	C110	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS C110	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS RYH110	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS RYS110	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	P110 SR16	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	P110	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	P110 HC	1,500	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	P110 HP	1,630	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	Q125	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	Q125 HC	1,510	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	Q125 HP	1,640	

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
1,962	1,141	--	1,691	8,140	8,140	--	8,140	8,110	8,980	9,000	12.750	--			
2,065	1,176	--	1,688	8,570	8,570	--	8,570	8,530	9,460	8,600	12.750	--			
2,065	1,176	--	1,688	8,570	8,570	--	8,570	8,530	9,460	8,600	12.750	--			
2,271	--	--	--	9,430	--	--	--	9,390	10,400	9,930	--	--			
2,271	--	--	--	9,430	--	--	--	9,390	10,400	10,370	--	--			
2,271	--	--	--	9,430	--	--	--	9,390	10,400	10,370	--	--			
2,271	--	--	--	9,430	--	--	--	9,390	10,400	10,370	--	--			
2,271	1,329	--	1,988	9,430	9,430	--	9,430	9,390	10,400	9,780	12.750	--			
2,271	1,329	--	1,988	9,430	9,430	--	9,430	9,390	10,400	10,800	12.750	--			
2,271	1,329	--	1,988	9,430	9,430	--	9,430	9,390	10,400	10,800	12.750	--			
2,581	1,481	--	2,154	11,030	10,400	--	10,120	10,980	12,150	11,680	12.750	--			
2,581	1,493	--	2,198	10,720	10,720	--	10,720	10,670	11,820	11,750	12.750	--			
2,581	1,493	--	2,198	10,720	10,720	--	10,720	10,670	11,820	11,750	12.750	--			
2,787	1,599	--	2,323	11,910	11,810	--	11,500	11,860	13,130	12,650	12.750	--			
2,891	1,670	--	2,451	12,000	12,000	--	12,000	11,950	13,240	13,150	12.750	--			
3,097	1,787	--	2,620	12,860	12,860	--	12,860	12,800	14,180	14,100	12.750	--			
541	322	--	--	1,730	1,730	--	--	1,730	1,950	1,860	14.375	--			
853	514	--	909	2,740	2,740	--	2,740	2,730	3,070	2,710	14.375	--			
853	547	--	1,038	2,740	2,740	--	2,740	2,730	3,070	3,430	14.375	--			
853	547	--	1,038	2,740	2,740	--	2,740	2,730	3,070	3,430	14.375	--			
1,241	--	--	--	3,980	--	--	--	3,980	4,470	4,190	--	--			
1,241	--	--	--	3,980	--	--	--	3,980	4,470	4,190	--	--			
1,241	--	--	--	3,980	--	--	--	3,980	4,470	4,190	--	--			
1,319	--	--	--	4,350	--	--	--	4,340	4,750	4,320	--	--			
1,241	--	--	--	3,980	--	--	--	3,980	4,470	4,410	--	--			
1,241	--	--	--	3,980	--	--	--	3,980	4,470	4,410	--	--			
1,474	--	--	--	4,860	--	--	--	4,850	5,310	4,810	--	--			
1,396	--	--	--	4,480	--	--	--	4,470	5,030	4,880	--	--			
1,396	--	--	--	4,480	--	--	--	4,470	5,030	4,880	--	--			
1,474	--	--	--	4,730	--	--	--	4,720	5,310	4,660	--	--			
1,474	--	--	--	4,730	--	--	--	4,720	5,310	5,140	--	--			
1,474	--	--	--	4,730	--	--	--	4,720	5,310	5,140	--	--			
1,551	--	--	--	4,980	--	--	--	4,970	5,580	5,400	--	--			
1,551	--	--	--	4,980	--	--	--	4,970	5,580	5,400	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	5,670	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	5,920	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	5,920	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	5,920	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	5,590	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	6,160	--	--			
1,707	--	--	--	5,480	--	--	--	5,470	6,140	6,160	--	--			
1,939	--	--	--	6,390	--	--	--	6,380	6,980	6,650	--	--			
1,939	--	--	--	6,220	--	--	--	6,210	6,980	6,710	--	--			
1,939	--	--	--	6,220	--	--	--	6,210	6,980	6,710	--	--			
2,094	--	--	--	6,900	--	--	--	6,890	7,540	7,200	--	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance	
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product		
	T&C	PE							
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS 140	1,140	
13 3/8	54.50	52.79	0.380	12.615	12.459	--	USS V150	1,140	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	J55	1,540	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	K55	1,540	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS HCK55	1,830	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS GT80S	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	L80	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	L80 HC	2,060	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	L80 HP	2,280	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	N80	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	N80 HC	2,070	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	N80 HP	2,260	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	C90	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS C90	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	R95	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	T95	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS C95	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS C100	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS RYS100	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	C110	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS C110	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS RYH110	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS RYS110	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	P110 SR16	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	P110	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	P110 HC	2,150	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	P110 HP	2,330	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	Q125	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	Q125 HC	2,160	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	Q125 HP	2,350	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS 140	1,670	
13 3/8	61.00	59.50	0.430	12.515	12.359	--	USS V150	1,670	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	J55	1,950	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	K55	1,950	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS HCK55	2,550	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS GT80S	2,260	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	L80	2,260	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	L80 HC	2,690	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	L80 HP	2,850	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	N80	2,260	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	N80 HC	2,750	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	N80 HP	2,930	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	C90	2,320	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS C90	2,320	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	R95	2,330	

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
2,172	--	--	--	6,970	--	--	--	6,960	7,820	7,510	--	--			
2,327	--	--	--	7,470	--	--	--	7,460	8,380	8,050	--	--			
962	595	--	1,025	3,090	3,090	--	3,090	3,090	3,460	3,070	14.375	--			
962	633	--	1,169	3,090	3,090	--	3,090	3,090	3,460	3,880	14.375	--			
962	633	--	1,169	3,090	3,090	--	3,090	3,090	3,460	3,880	14.375	--			
1,399	--	--	--	4,500	--	--	--	4,490	5,040	4,740	--	--			
1,399	--	--	--	4,500	--	--	--	4,490	5,040	4,740	--	--			
1,399	--	--	--	4,500	--	--	--	4,490	5,040	4,740	--	--			
1,486	--	--	--	4,920	--	--	--	4,910	5,350	4,910	--	--			
1,399	--	--	--	4,500	--	--	--	4,490	5,040	4,990	--	--			
1,399	--	--	--	4,500	--	--	--	4,490	5,040	4,990	--	--			
1,661	--	--	--	5,500	--	--	--	5,490	5,980	5,460	--	--			
1,574	--	--	--	5,060	--	--	--	5,050	5,670	5,530	--	--			
1,574	--	--	--	5,060	--	--	--	5,050	5,670	5,530	--	--			
1,661	--	--	--	5,340	--	--	--	5,330	5,980	5,280	--	--			
1,661	--	--	--	5,340	--	--	--	5,330	5,980	5,820	--	--			
1,661	--	--	--	5,340	--	--	--	5,330	5,980	5,820	--	--			
1,749	--	--	--	5,620	--	--	--	5,610	6,300	6,110	--	--			
1,749	--	--	--	5,620	--	--	--	5,610	6,300	6,110	--	--			
1,924	--	--	--	6,180	--	--	--	6,170	6,930	6,420	--	--			
1,924	--	--	--	6,180	--	--	--	6,170	6,930	6,700	--	--			
1,924	--	--	--	6,180	--	--	--	6,170	6,930	6,700	--	--			
1,924	--	--	--	6,180	--	--	--	6,170	6,930	6,330	--	--			
1,924	--	--	--	6,180	--	--	--	6,170	6,930	6,980	--	--			
1,924	--	--	--	6,180	--	--	--	6,170	6,930	6,980	--	--			
2,186	--	--	--	7,230	--	--	--	7,220	7,870	7,550	--	--			
2,186	--	--	--	7,030	--	--	--	7,010	7,870	7,600	--	--			
2,186	--	--	--	7,030	--	--	--	7,010	7,870	7,600	--	--			
2,361	--	--	--	7,810	--	--	--	7,800	8,500	8,170	--	--			
2,448	--	--	--	7,870	--	--	--	7,860	8,820	8,500	--	--			
2,623	--	--	--	8,430	--	--	--	8,420	9,450	9,120	--	--			
1,069	675	--	1,140	3,450	3,450	--	3,450	3,450	3,850	3,430	14.375	--			
1,069	718	--	1,300	3,450	3,450	--	3,450	3,450	3,850	4,350	14.375	--			
1,069	718	--	1,300	3,450	3,450	--	3,450	3,450	3,850	4,350	14.375	--			
1,556	952	--	1,545	5,020	5,020	--	5,020	5,010	5,610	5,310	14.375	--			
1,556	952	--	1,545	5,020	5,020	--	5,020	5,010	5,610	5,310	14.375	--			
1,556	952	--	1,545	5,020	5,020	--	5,020	5,010	5,610	5,310	14.375	--			
1,653	999	--	1,594	5,490	5,490	--	5,490	5,480	6,130	5,490	14.375	--			
1,556	963	--	1,585	5,020	5,020	--	5,020	5,010	5,610	5,590	14.375	--			
1,556	963	--	1,585	5,020	5,020	--	5,020	5,010	5,610	5,590	14.375	--			
1,847	1,114	--	1,772	6,140	6,140	--	6,140	6,120	6,850	6,120	14.375	--			
1,750	1,057	--	1,683	5,650	5,650	--	5,650	5,640	6,310	6,200	14.375	--			
1,750	1,057	--	1,683	5,650	5,650	--	5,650	5,640	6,310	6,200	14.375	--			
1,847	1,114	--	1,772	5,970	5,970	--	5,970	5,950	6,660	5,910	14.375	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance	
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product		
	T&C	PE							
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	T95	2,330	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS C95	2,330	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS C100	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS RYS100	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	C110	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS C110	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS RYH110	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS RYS110	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	P110 SR16	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	P110	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	P110 HC	2,910	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	P110 HP	3,100	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	Q125	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	Q125 HC	2,950	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	Q125 HP	3,140	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS 140	2,340	
13 3/8	68.00	66.17	0.480	12.415	12.259	--	USS V150	2,340	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	J55	2,230	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	K55	2,230	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS GT80S	2,670	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	L80	2,670	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	L80 HC	3,180	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	L80 HP	3,380	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	N80	2,670	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	N80 HC	3,270	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	N80 HP	3,490	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	C90	2,780	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS C90	2,780	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	R95	2,820	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	T95	2,820	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS C95	2,820	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS C100	2,850	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS RYS100	2,850	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	C110	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS C110	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS RYH110	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS RYS110	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	P110 SR16	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	P110	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	P110 HC	3,510	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	P110 HP	3,730	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	Q125	2,880	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	Q125 HC	3,560	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	Q125 HP	3,780	
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS 140	2,880	

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
1,847	1,114	--	1,772	5,970	5,970	--	5,970	5,950	6,660	6,520	14.375	--		
1,847	1,114	--	1,772	5,970	5,970	--	5,970	5,950	6,660	6,520	14.375	--		
1,945	1,150	--	1,781	6,280	6,280	--	6,280	6,260	7,010	6,230	14.375	--		
1,945	1,150	--	1,781	6,280	6,280	--	6,280	6,260	7,010	6,230	14.375	--		
2,139	--	--	--	6,910	--	--	--	6,890	7,710	7,200	--	--		
2,139	--	--	--	6,910	--	--	--	6,890	7,710	7,510	--	--		
2,139	--	--	--	6,910	--	--	--	6,890	7,710	7,510	--	--		
2,139	--	--	--	6,910	--	--	--	6,890	7,710	7,510	--	--		
2,139	1,297	--	2,079	6,910	6,910	--	6,910	6,890	7,710	7,090	14.375	--		
2,139	1,297	--	2,079	6,910	6,910	--	6,910	6,890	7,710	7,820	14.375	--		
2,139	1,297	--	2,079	6,910	6,910	--	6,910	6,890	7,710	7,820	14.375	--		
2,431	1,448	--	2,266	8,070	8,070	--	8,070	8,050	9,010	8,450	14.375	--		
2,431	1,458	--	2,306	7,850	7,850	--	7,850	7,830	8,760	8,510	14.375	--		
2,431	1,458	--	2,306	7,850	7,850	--	7,850	7,830	8,760	8,510	14.375	--		
2,625	1,563	--	2,444	8,720	8,720	--	8,720	8,700	9,730	9,150	14.375	--		
2,722	1,631	--	2,573	8,790	8,790	--	8,790	8,770	9,810	9,530	14.375	--		
2,917	1,746	--	2,752	9,420	9,420	--	9,420	9,400	10,510	10,220	14.375	--		
1,142	--	--	--	3,700	--	--	--	3,690	4,120	3,690	--	--		
1,142	--	--	--	3,700	--	--	--	3,690	4,120	4,670	--	--		
1,661	1,029	--	1,650	5,380	5,380	--	5,380	5,370	5,990	5,700	14.375	--		
1,661	1,029	--	1,650	5,380	5,380	--	5,380	5,370	5,990	5,700	14.375	--		
1,661	1,029	--	1,650	5,380	5,380	--	5,380	5,370	5,990	5,700	14.375	--		
1,765	1,079	--	1,702	5,880	5,880	--	5,880	5,870	6,540	5,900	14.375	--		
1,661	1,040	--	1,693	5,380	5,380	--	5,380	5,370	5,990	6,000	14.375	--		
1,661	1,040	--	1,693	5,380	5,380	--	5,380	5,370	5,990	6,000	14.375	--		
1,973	1,204	--	1,893	6,580	6,580	--	6,530	6,560	7,310	6,570	14.375	--		
1,869	1,142	--	1,798	6,060	6,060	--	6,060	6,040	6,740	6,650	14.375	--		
1,869	1,142	--	1,798	6,060	6,060	--	6,060	6,040	6,740	6,650	14.375	--		
1,973	1,204	--	1,893	6,390	6,390	--	6,390	6,370	7,110	6,350	14.375	--		
1,973	1,204	--	1,893	6,390	6,390	--	6,390	6,370	7,110	7,000	14.375	--		
1,973	1,204	--	1,893	6,390	6,390	--	6,390	6,370	7,110	7,000	14.375	--		
2,077	1,243	--	1,902	6,730	6,730	--	6,730	6,710	7,490	6,690	14.375	--		
2,077	1,243	--	1,902	6,730	6,730	--	6,730	6,710	7,490	6,690	14.375	--		
2,284	--	--	--	7,400	--	--	--	7,380	8,240	7,730	--	--		
2,284	--	--	--	7,400	--	--	--	7,380	8,240	8,060	--	--		
2,284	--	--	--	7,400	--	--	--	7,380	8,240	8,060	--	--		
2,284	--	--	--	7,400	--	--	--	7,380	8,240	8,060	--	--		
2,284	1,401	--	2,221	7,400	7,400	--	7,400	7,380	8,240	7,610	14.375	--		
2,284	1,401	--	2,221	7,400	7,400	--	7,400	7,380	8,240	8,400	14.375	--		
2,284	1,401	--	2,221	7,400	7,400	--	7,400	7,380	8,240	8,400	14.375	--		
2,596	1,564	--	2,420	8,650	8,650	--	8,650	8,630	9,620	9,080	14.375	--		
2,596	1,576	--	2,463	8,410	8,410	--	8,410	8,390	9,360	9,140	14.375	--		
2,596	1,576	--	2,463	8,410	8,410	--	8,410	8,390	9,360	9,140	14.375	--		
2,804	1,688	--	2,611	9,350	9,350	--	9,350	9,320	10,390	9,830	14.375	--		
2,908	1,762	--	2,749	9,420	9,420	--	9,420	9,390	10,480	10,230	14.375	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
13 3/8	72.00	70.67	0.514	12.347	12.191	12.250	USS V150	2,880
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS GT80S	4,190
13 3/8	86.00	85.19	0.625	12.125	11.969	--	L80	4,190
13 3/8	86.00	85.19	0.625	12.125	11.969	--	L80 HC	4,940
13 3/8	86.00	85.19	0.625	12.125	11.969	--	L80 HP	5,240
13 3/8	86.00	85.19	0.625	12.125	11.969	--	N80	4,190
13 3/8	86.00	85.19	0.625	12.125	11.969	--	N80 HC	5,160
13 3/8	86.00	85.19	0.625	12.125	11.969	--	N80 HP	5,520
13 3/8	86.00	85.19	0.625	12.125	11.969	--	C90	4,350
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS C90	4,350
13 3/8	86.00	85.19	0.625	12.125	11.969	--	R95	4,420
13 3/8	86.00	85.19	0.625	12.125	11.969	--	T95	4,420
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS C95	4,420
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS C100	4,550
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS RYS100	4,550
13 3/8	86.00	85.19	0.625	12.125	11.969	--	C110	4,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS C110	4,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS RYH110	4,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS RYS110	4,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	P110 SR16	4,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	P110	4,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	P110 HC	5,770
13 3/8	86.00	85.19	0.625	12.125	11.969	--	P110 HP	6,140
13 3/8	86.00	85.19	0.625	12.125	11.969	--	Q125	5,030
13 3/8	86.00	85.19	0.625	12.125	11.969	--	Q125 HC	5,920
13 3/8	86.00	85.19	0.625	12.125	11.969	--	Q125 HP	6,290
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS 140	5,190
13 3/8	86.00	85.19	0.625	12.125	11.969	--	USS V150	5,250
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS GT80S	5,050
13 3/8	92.50	91.25	0.672	12.031	11.875	--	L80	5,050
13 3/8	92.50	91.25	0.672	12.031	11.875	--	L80 HC	5,710
13 3/8	92.50	91.25	0.672	12.031	11.875	--	L80 HP	6,050
13 3/8	92.50	91.25	0.672	12.031	11.875	--	N80	5,050
13 3/8	92.50	91.25	0.672	12.031	11.875	--	N80 HC	6,000
13 3/8	92.50	91.25	0.672	12.031	11.875	--	N80 HP	6,430
13 3/8	92.50	91.25	0.672	12.031	11.875	--	C90	5,330
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS C90	5,330
13 3/8	92.50	91.25	0.672	12.031	11.875	--	R95	5,450
13 3/8	92.50	91.25	0.672	12.031	11.875	--	T95	5,450
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS C95	5,450
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS C100	5,560
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS RYS100	5,560
13 3/8	92.50	91.25	0.672	12.031	11.875	--	C110	5,720
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS C110	5,720
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS RYS110	5,720

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
3,115	1,886	--	2,939	10,090	10,090	--	10,090	10,060	11,230	10,970	14.375	--		
2,003	1,276	--	1,989	6,540	6,540	--	6,530	6,520	7,230	6,970	14.375	--		
2,003	1,276	--	1,989	6,540	6,540	--	6,530	6,520	7,230	6,970	14.375	--		
2,003	1,276	--	1,989	6,540	6,540	--	6,530	6,520	7,230	6,970	14.375	--		
2,128	1,338	--	2,052	7,160	6,680	--	6,530	7,120	7,900	7,220	14.375	--		
2,003	1,290	--	2,041	6,540	6,540	--	6,530	6,520	7,230	7,340	14.375	--		
2,003	1,290	--	2,041	6,540	6,540	--	6,530	6,520	7,230	7,340	14.375	--		
2,378	1,492	--	2,281	8,000	6,680	--	6,530	7,960	8,830	8,040	14.375	--		
2,253	1,415	--	2,167	7,360	7,360	--	7,340	7,330	8,130	8,140	14.375	--		
2,253	1,415	--	2,167	7,360	7,360	--	7,340	7,330	8,130	8,140	14.375	--		
2,378	1,492	--	2,281	7,770	7,770	--	7,750	7,740	8,580	7,770	14.375	--		
2,378	1,492	--	2,281	7,770	7,770	--	7,750	7,740	8,580	8,570	14.375	--		
2,378	1,492	--	2,281	7,770	7,770	--	7,750	7,740	8,580	8,570	14.375	--		
2,504	1,541	--	2,293	8,180	8,180	--	8,160	8,140	9,040	8,190	14.375	--		
2,504	1,541	--	2,293	8,180	8,180	--	8,160	8,140	9,040	8,190	14.375	--		
2,754	--	--	--	9,000	--	--	--	8,960	9,940	9,460	--	--		
2,754	--	--	--	9,000	--	--	--	8,960	9,940	9,870	--	--		
2,754	--	--	--	9,000	--	--	--	8,960	9,940	9,870	--	--		
2,754	--	--	--	9,000	--	--	--	8,960	9,940	9,870	--	--		
2,754	1,737	--	2,677	9,000	9,000	--	8,980	8,960	9,940	9,310	14.375	--		
2,754	1,737	--	2,677	9,000	9,000	--	8,980	8,960	9,940	10,280	14.375	--		
2,754	1,737	--	2,677	9,000	9,000	--	8,980	8,960	9,940	10,280	14.375	--		
3,129	1,939	--	2,918	10,520	9,220	--	8,980	10,480	11,610	11,120	14.375	--		
3,129	1,953	--	2,969	10,220	10,220	--	10,200	10,180	11,290	11,190	14.375	--		
3,129	1,953	--	2,969	10,220	10,220	--	10,200	10,180	11,290	11,190	14.375	--		
3,380	2,093	--	3,147	11,370	10,480	--	10,200	11,310	12,540	12,040	14.375	--		
3,505	2,184	--	3,313	11,450	11,450	--	11,420	11,400	12,650	12,530	14.375	--		
3,755	2,338	--	3,543	12,270	12,270	--	12,240	12,220	13,550	13,430	14.375	--		
2,145	1,379	--	2,131	7,030	6,680	--	6,530	7,000	7,750	7,520	14.375	--		
2,145	1,379	--	2,131	7,030	6,680	--	6,530	7,000	7,750	7,520	14.375	--		
2,145	1,379	--	2,131	7,030	6,680	--	6,530	7,000	7,750	7,520	14.375	--		
2,280	1,447	--	2,198	7,690	6,680	--	6,530	7,650	8,460	7,780	14.375	--		
2,145	1,394	--	2,186	7,030	6,680	--	6,530	7,000	7,750	7,910	14.375	--		
2,145	1,394	--	2,186	7,030	6,680	--	6,530	7,000	7,750	7,910	14.375	--		
2,548	1,613	--	2,414	8,590	6,680	--	6,530	8,550	9,460	8,660	14.375	--		
2,414	1,530	--	2,321	7,910	7,520	--	7,340	7,870	8,720	8,780	14.375	--		
2,414	1,530	--	2,321	7,910	7,520	--	7,340	7,870	8,720	8,780	14.375	--		
2,548	1,613	--	2,444	8,350	7,940	--	7,750	8,310	9,200	8,370	14.375	--		
2,548	1,613	--	2,444	8,350	7,940	--	7,750	8,310	9,200	9,240	14.375	--		
2,548	1,613	--	2,444	8,350	7,940	--	7,750	8,310	9,200	9,240	14.375	--		
2,682	1,665	--	2,414	8,790	8,350	--	8,160	8,750	9,680	8,830	14.375	--		
2,682	1,665	--	2,414	8,790	8,350	--	8,160	8,750	9,680	8,830	14.375	--		
2,950	--	--	--	9,670	--	--	--	9,620	10,650	10,200	--	--		
2,950	--	--	--	9,670	--	--	--	9,620	10,650	10,640	--	--		
2,950	--	--	--	9,670	--	--	--	9,620	10,650	10,640	--	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
13 3/8	92.50	91.25	0.672	12.031	11.875	--	P110 SR16	5,720
13 3/8	92.50	91.25	0.672	12.031	11.875	--	P110	5,720
13 3/8	92.50	91.25	0.672	12.031	11.875	--	P110 HC	6,850
13 3/8	92.50	91.25	0.672	12.031	11.875	--	P110 HP	7,280
13 3/8	92.50	91.25	0.672	12.031	11.875	--	Q125	5,950
13 3/8	92.50	91.25	0.672	12.031	11.875	--	Q125 HC	7,050
13 3/8	92.50	91.25	0.672	12.031	11.875	--	Q125 HP	7,500
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS 140	6,250
13 3/8	92.50	91.25	0.672	12.031	11.875	--	USS V150	6,400
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS GT80S	6,190
13 3/8	100.30	99.19	0.734	11.907	11.751	--	L80	6,190
13 3/8	100.30	99.19	0.734	11.907	11.751	--	L80 HC	6,720
13 3/8	100.30	99.19	0.734	11.907	11.751	--	L80 HP	7,120
13 3/8	100.30	99.19	0.734	11.907	11.751	--	N80	6,190
13 3/8	100.30	99.19	0.734	11.907	11.751	--	N80 HC	7,120
13 3/8	100.30	99.19	0.734	11.907	11.751	--	N80 HP	7,640
13 3/8	100.30	99.19	0.734	11.907	11.751	--	C90	6,630
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS C90	6,630
13 3/8	100.30	99.19	0.734	11.907	11.751	--	R95	6,830
13 3/8	100.30	99.19	0.734	11.907	11.751	--	T95	6,830
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS C95	6,830
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS C100	7,010
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS RYS100	7,010
13 3/8	100.30	99.19	0.734	11.907	11.751	--	C110	7,340
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS C110	7,340
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS RYH110	7,340
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS RYS110	7,340
13 3/8	100.30	99.19	0.734	11.907	11.751	--	P110 SR16	7,340
13 3/8	100.30	99.19	0.734	11.907	11.751	--	P110	7,340
13 3/8	100.30	99.19	0.734	11.907	11.751	--	P110 HC	8,320
13 3/8	100.30	99.19	0.734	11.907	11.751	--	P110 HP	8,850
13 3/8	100.30	99.19	0.734	11.907	11.751	--	Q125	7,730
13 3/8	100.30	99.19	0.734	11.907	11.751	--	Q125 HC	8,630
13 3/8	100.30	99.19	0.734	11.907	11.751	--	Q125 HP	9,170
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS 140	7,990
13 3/8	100.30	99.19	0.734	11.907	11.751	--	USS V150	8,090
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	K55	2,890
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS GT80S	3,390
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	L80	3,390
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	L80 HC	4,120
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	L80 HP	4,380
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	N80	3,390
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	N80 HC	4,280
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	N80 HP	4,570
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	C90	3,600

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
2,950	--	--	--	9,670	--	--	--	9,620	10,650	10,040	--	--
2,950	1,877	--	2,868	9,670	9,220	--	8,980	9,620	10,650	11,090	14.375	--
2,950	1,877	--	2,868	9,670	9,220	--	8,980	9,620	10,650	11,090	14.375	--
3,352	2,096	--	3,017	11,310	9,220	--	8,980	11,250	12,440	11,990	14.375	--
3,352	2,111	--	3,181	10,990	10,480	--	10,200	10,940	12,100	12,060	14.375	--
3,352	2,111	--	3,181	10,990	10,480	--	10,200	10,940	12,100	12,060	14.375	--
3,620	2,262	--	3,258	12,210	10,480	--	10,200	12,150	13,440	12,980	14.375	--
3,755	2,361	--	3,549	12,310	11,740	--	11,420	12,250	13,560	13,510	14.375	--
4,023	2,527	--	3,795	13,190	12,570	--	12,240	13,120	14,530	14,480	14.375	--
2,332	1,514	--	2,293	7,680	6,680	--	6,530	7,640	8,430	8,240	14.375	--
2,332	1,514	--	2,293	7,680	6,680	--	6,530	7,640	8,430	8,240	14.375	--
2,332	1,514	--	2,293	7,680	6,680	--	6,530	7,640	8,430	8,240	14.375	--
2,478	1,588	--	2,293	8,400	6,680	--	6,530	8,350	9,200	8,530	14.375	--
2,332	1,531	--	2,376	7,680	6,680	--	6,530	7,640	8,430	8,670	14.375	--
2,332	1,531	--	2,376	7,680	6,680	--	6,530	7,640	8,430	8,670	14.375	--
2,769	1,771	--	2,414	9,390	6,680	--	6,530	9,330	10,290	9,500	14.375	--
2,623	1,679	--	2,414	8,640	7,520	--	7,340	8,590	9,480	9,630	14.375	--
2,623	1,679	--	2,414	8,640	7,520	--	7,340	8,590	9,480	9,630	14.375	--
2,769	1,771	--	2,534	9,120	7,940	--	7,750	9,070	10,010	9,170	14.375	--
2,769	1,771	--	2,534	9,120	7,940	--	7,750	9,070	10,010	10,130	14.375	--
2,769	1,771	--	2,534	9,120	7,940	--	7,750	9,070	10,010	10,130	14.375	--
2,915	1,828	--	2,414	9,600	8,350	--	8,160	9,540	10,530	9,670	14.375	--
2,915	1,828	--	2,414	9,600	8,350	--	8,160	9,540	10,530	9,670	14.375	--
3,206	--	--	--	10,560	--	--	--	10,500	11,590	11,180	--	--
3,206	--	--	--	10,560	--	--	--	10,500	11,590	11,670	--	--
3,206	--	--	--	10,560	--	--	--	10,500	11,590	11,670	--	--
3,206	--	--	--	10,560	--	--	--	10,500	11,590	11,670	--	--
3,206	2,061	--	3,017	10,560	9,220	--	8,980	10,500	11,590	11,000	14.375	--
3,206	2,061	--	3,017	10,560	9,220	--	8,980	10,500	11,590	12,150	14.375	--
3,206	2,061	--	3,017	10,560	9,220	--	8,980	10,500	11,590	12,150	14.375	--
3,644	2,301	--	3,017	12,360	9,220	--	8,980	12,280	13,530	13,150	14.375	--
3,644	2,318	--	3,258	12,000	10,480	--	10,200	11,930	13,170	13,220	14.375	--
3,644	2,318	--	3,258	12,000	10,480	--	10,200	11,930	13,170	13,220	14.375	--
3,935	2,483	--	3,258	13,340	10,480	--	10,200	13,260	14,620	14,240	14.375	--
4,081	2,592	--	3,620	13,440	11,740	--	11,420	13,360	14,750	14,800	14.375	--
4,372	2,775	--	3,862	14,400	12,570	--	12,240	14,320	15,800	15,870	14.375	--
1,295	782	--	1,398	4,140	4,140	--	4,140	4,120	4,580	5,240	14.375	--
1,883	1,037	--	1,661	6,020	6,020	--	6,020	6,000	6,670	6,400	14.375	--
1,883	1,037	--	1,661	6,020	6,020	--	6,020	6,000	6,670	6,400	14.375	--
1,883	1,037	--	1,661	6,020	6,020	--	6,020	6,000	6,670	6,400	14.375	--
2,001	1,088	--	1,713	6,570	6,570	--	6,530	6,550	7,290	6,610	14.375	--
1,883	1,048	--	1,704	6,020	6,020	--	6,020	6,000	6,670	6,740	14.375	--
1,883	1,048	--	1,704	6,020	6,020	--	6,020	6,000	6,670	6,740	14.375	--
2,236	1,213	--	1,905	7,350	6,680	--	6,530	7,320	8,140	7,360	14.375	--
2,119	1,150	--	1,809	6,770	6,770	--	6,770	6,750	7,500	7,470	14.375	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance	
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product		
	T&C	PE							
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS C90	3,600	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	R95	3,690	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	T95	3,690	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS C95	3,690	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS C100	3,780	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS RYS100	3,780	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	C110	3,910	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS C110	3,910	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS RYH110	3,910	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS RYS110	3,910	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	P110 SR16	3,910	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	P110	3,910	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	P110 HC	4,690	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	P110 HP	4,990	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	Q125	4,030	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	Q125 HC	4,780	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	Q125 HP	5,080	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS 140	4,060	
13 1/2	81.40	80.11	0.580	12.340	12.153	12.250	USS V150	4,060	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	K55	3,360	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS GT80S	3,980	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	L80	3,980	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	L80 HC	4,750	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	L80 HP	5,040	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	N80	3,980	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	N80 HC	4,960	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	N80 HP	5,300	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	C90	4,130	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS C90	4,130	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	R95	4,260	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	T95	4,260	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS C95	4,260	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS C100	4,370	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS RYS100	4,370	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	C110	4,570	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS C110	4,570	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS RYH110	4,570	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS RYS110	4,570	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	P110 SR16	4,570	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	P110	4,570	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	P110 HC	5,520	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	P110 HP	5,870	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	Q125	4,800	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	Q125 HC	5,650	
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	Q125 HP	6,010	

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter				
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling			
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End						
Yield	Threaded and Coupled				STC	LTC	BTC								
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.			
2,119	1,150	--	1,809	6,770	6,770	--	6,770	6,750	7,500	7,470	14.375	--			
2,236	1,213	--	1,905	7,150	7,150	--	7,150	7,120	7,920	7,130	14.375	--			
2,236	1,213	--	1,905	7,150	7,150	--	7,150	7,120	7,920	7,860	14.375	--			
2,236	1,213	--	1,905	7,150	7,150	--	7,150	7,120	7,920	7,860	14.375	--			
2,354	1,252	--	1,914	7,530	7,530	--	7,530	7,500	8,340	7,510	14.375	--			
2,354	1,252	--	1,914	7,530	7,530	--	7,530	7,500	8,340	7,510	14.375	--			
2,590	--	--	--	8,280	--	--	--	8,250	9,170	8,680	--	--			
2,590	--	--	--	8,280	--	--	--	8,250	9,170	9,050	--	--			
2,590	--	--	--	8,280	--	--	--	8,250	9,170	9,050	--	--			
2,590	--	--	--	8,280	--	--	--	8,250	9,170	9,050	--	--			
2,590	1,411	--	2,235	8,280	8,280	--	8,280	8,250	9,170	8,550	14.375	--			
2,590	1,411	--	2,235	8,280	8,280	--	8,280	8,250	9,170	9,430	14.375	--			
2,590	1,411	--	2,235	8,280	8,280	--	8,280	8,250	9,170	9,430	14.375	--			
2,943	1,576	--	2,436	9,670	9,220	--	8,980	9,630	10,710	10,180	14.375	--			
2,943	1,588	--	2,479	9,410	9,410	--	9,410	9,370	10,420	10,260	14.375	--			
2,943	1,588	--	2,479	9,410	9,410	--	9,410	9,370	10,420	10,260	14.375	--			
3,178	1,701	--	2,628	10,440	10,440	--	10,200	10,400	11,570	11,020	14.375	--			
3,296	1,775	--	2,766	10,540	10,540	--	10,540	10,500	11,670	11,490	14.375	--			
3,531	1,900	--	2,958	11,290	11,290	--	11,290	11,250	12,500	12,320	14.375	--			
1,404	752	--	1,353	4,420	4,420	--	4,420	4,400	4,880	5,600	14.375	--			
2,042	997	--	1,607	6,420	6,420	--	6,420	6,400	7,100	6,840	14.375	--			
2,042	997	--	1,607	6,420	6,420	--	6,420	6,400	7,100	6,840	14.375	--			
2,042	997	--	1,607	6,420	6,420	--	6,420	6,400	7,100	6,840	14.375	--			
2,170	1,046	--	1,658	7,020	6,680	--	6,530	6,990	7,760	7,080	14.375	--			
2,042	1,009	--	1,649	6,420	6,420	--	6,420	6,400	7,100	7,200	14.375	--			
2,042	1,009	--	1,649	6,420	6,420	--	6,420	6,400	7,100	7,200	14.375	--			
2,425	1,167	--	1,843	7,850	6,680	--	6,530	7,820	8,670	7,890	14.375	--			
2,297	1,107	--	1,750	7,230	7,230	--	7,230	7,200	7,990	7,990	14.375	--			
2,297	1,107	--	1,750	7,230	7,230	--	7,230	7,200	7,990	7,990	14.375	--			
2,425	1,167	--	1,843	7,630	7,630	--	7,630	7,600	8,430	7,620	14.375	--			
2,425	1,167	--	1,843	7,630	7,630	--	7,630	7,600	8,430	8,410	14.375	--			
2,425	1,167	--	1,843	7,630	7,630	--	7,630	7,600	8,430	8,410	14.375	--			
2,553	1,205	--	1,852	8,030	8,030	--	8,030	8,000	8,880	8,030	14.375	--			
2,553	1,205	--	1,852	8,030	8,030	--	8,030	8,000	8,880	8,030	14.375	--			
2,808	--	--	--	8,830	--	--	--	8,800	9,760	9,280	--	--			
2,808	--	--	--	8,830	--	--	--	8,800	9,760	9,680	--	--			
2,808	--	--	--	8,830	--	--	--	8,800	9,760	9,680	--	--			
2,808	--	--	--	8,830	--	--	--	8,800	9,760	9,680	--	--			
2,808	1,358	--	2,163	8,830	8,830	--	8,830	8,800	9,760	9,140	14.375	--			
2,808	1,358	--	2,163	8,830	8,830	--	8,830	8,800	9,760	10,090	14.375	--			
2,808	1,358	--	2,163	8,830	8,830	--	8,830	8,800	9,760	10,090	14.375	--			
3,191	1,516	--	2,357	10,330	9,220	--	8,980	10,290	11,410	10,910	14.375	--			
3,191	1,527	--	2,399	10,040	10,040	--	10,040	10,000	11,100	10,980	14.375	--			
3,191	1,527	--	2,399	10,040	10,040	--	10,040	10,000	11,100	10,980	14.375	--			
3,446	1,637	--	2,542	11,160	10,480	--	10,200	11,110	12,320	11,810	14.375	--			

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS 140	4,940
13 5/8	88.20	86.86	0.625	12.375	12.188	12.250	USS V150	4,970
14	--	112.89	0.800	12.400	12.213	12.250	L80	6,740
14	--	112.89	0.800	12.400	12.213	12.250	L80 HC	7,210
14	--	112.89	0.800	12.400	12.213	12.250	L80 HP	7,640
14	--	112.89	0.800	12.400	12.213	12.250	N80	6,740
14	--	112.89	0.800	12.400	12.213	12.250	N80 HC	7,660
14	--	112.89	0.800	12.400	12.213	12.250	N80 HP	8,220
14	--	112.89	0.800	12.400	12.213	12.250	C90	7,260
14	--	112.89	0.800	12.400	12.213	12.250	USS C90	7,260
14	--	112.89	0.800	12.400	12.213	12.250	R95	7,500
14	--	112.89	0.800	12.400	12.213	12.250	T95	7,500
14	--	112.89	0.800	12.400	12.213	12.250	USS C95	7,500
14	--	112.89	0.800	12.400	12.213	12.250	USS C100	7,720
14	--	112.89	0.800	12.400	12.213	12.250	USS RYS100	7,720
14	--	112.89	0.800	12.400	12.213	12.250	C110	8,130
14	--	112.89	0.800	12.400	12.213	12.250	USS C110	8,130
14	--	112.89	0.800	12.400	12.213	12.250	USS RYS110	8,130
14	--	112.89	0.800	12.400	12.213	12.250	P110 SR16	8,130
14	--	112.89	0.800	12.400	12.213	12.250	P110	8,130
14	--	112.89	0.800	12.400	12.213	12.250	P110 HC	9,050
14	--	112.89	0.800	12.400	12.213	12.250	P110 HP	9,630
14	--	112.89	0.800	12.400	12.213	12.250	Q125	8,650
14	--	112.89	0.800	12.400	12.213	12.250	Q125 HC	9,420
14	--	112.89	0.800	12.400	12.213	12.250	Q125 HP	10,000
14	--	112.89	0.800	12.400	12.213	12.250	USS 140	9,040
14	--	112.89	0.800	12.400	12.213	12.250	USS V150	9,220
14	--	115.53	0.820	12.360	12.173	12.250	L80	7,100
14	--	115.53	0.820	12.360	12.173	12.250	L80 HC	7,510
14	--	115.53	0.820	12.360	12.173	12.250	L80 HP	7,960
14	--	115.53	0.820	12.360	12.173	12.250	N80	7,100
14	--	115.53	0.820	12.360	12.173	12.250	N80 HC	8,000
14	--	115.53	0.820	12.360	12.173	12.250	N80 HP	8,590
14	--	115.53	0.820	12.360	12.173	12.250	C90	7,660
14	--	115.53	0.820	12.360	12.173	12.250	USS C90	7,660
14	--	115.53	0.820	12.360	12.173	12.250	R95	7,920
14	--	115.53	0.820	12.360	12.173	12.250	T95	7,920
14	--	115.53	0.820	12.360	12.173	12.250	USS C95	7,920
14	--	115.53	0.820	12.360	12.173	12.250	USS C100	8,170
14	--	115.53	0.820	12.360	12.173	12.250	USS RYS100	8,170
14	--	115.53	0.820	12.360	12.173	12.250	C110	8,640
14	--	115.53	0.820	12.360	12.173	12.250	USS C110	8,640
14	--	115.53	0.820	12.360	12.173	12.250	USS RYS110	8,640
14	--	115.53	0.820	12.360	12.173	12.250	P110 SR16	8,640
14	--	115.53	0.820	12.360	12.173	12.250	P110	8,640

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
3,574	1,708	--	2,677	11,240	11,240	--	11,240	11,200	12,430	12,290	14.375	--
3,829	1,828	--	2,862	12,040	12,040	--	12,040	11,990	13,310	13,170	14.375	--
2,654	--	--	--	8,000	--	--	--	7,950	8,760	8,600	--	--
2,654	--	--	--	8,000	--	--	--	7,950	8,760	8,600	--	--
2,820	--	--	--	8,740	--	--	--	8,680	9,560	8,890	--	--
2,654	--	--	--	8,000	--	--	--	7,950	8,760	9,050	--	--
2,654	--	--	--	8,000	--	--	--	7,950	8,760	9,050	--	--
3,152	--	--	--	9,770	--	--	--	9,710	10,690	9,910	--	--
2,986	--	--	--	9,000	--	--	--	8,940	9,850	10,050	--	--
2,986	--	--	--	9,000	--	--	--	8,940	9,850	10,050	--	--
3,152	--	--	--	9,500	--	--	--	9,440	10,400	9,570	--	--
3,152	--	--	--	9,500	--	--	--	9,440	10,400	10,580	--	--
3,152	--	--	--	9,500	--	--	--	9,440	10,400	10,580	--	--
3,318	--	--	--	10,000	--	--	--	9,940	10,940	10,100	--	--
3,318	--	--	--	10,000	--	--	--	9,940	10,940	10,100	--	--
3,649	--	--	--	11,000	--	--	--	10,930	12,040	11,670	--	--
3,649	--	--	--	11,000	--	--	--	10,930	12,040	12,180	--	--
3,649	--	--	--	11,000	--	--	--	10,930	12,040	12,180	--	--
3,649	--	--	--	11,000	--	--	--	10,930	12,040	11,480	--	--
3,649	--	--	--	11,000	--	--	--	10,930	12,040	12,690	--	--
3,649	--	--	--	11,000	--	--	--	10,930	12,040	12,690	--	--
4,147	--	--	--	12,860	--	--	--	12,770	14,060	13,720	--	--
4,147	--	--	--	12,500	--	--	--	12,420	13,680	13,800	--	--
4,147	--	--	--	12,500	--	--	--	12,420	13,680	13,800	--	--
4,479	--	--	--	13,890	--	--	--	13,790	15,190	14,840	--	--
4,645	--	--	--	14,000	--	--	--	13,910	15,320	15,450	--	--
4,976	--	--	--	15,000	--	--	--	14,910	16,420	16,560	--	--
2,716	--	--	--	8,210	--	--	--	8,150	8,960	8,830	--	--
2,716	--	--	--	8,210	--	--	--	8,150	8,960	8,830	--	--
2,886	--	--	--	8,960	--	--	--	8,900	9,790	9,130	--	--
2,716	--	--	--	8,210	--	--	--	8,150	8,960	9,290	--	--
2,716	--	--	--	8,210	--	--	--	8,150	8,960	9,290	--	--
3,226	--	--	--	10,020	--	--	--	9,950	10,940	10,160	--	--
3,056	--	--	--	9,230	--	--	--	9,170	10,080	10,320	--	--
3,056	--	--	--	9,230	--	--	--	9,170	10,080	10,320	--	--
3,226	--	--	--	9,740	--	--	--	9,680	10,640	9,830	--	--
3,226	--	--	--	9,740	--	--	--	9,680	10,640	10,860	--	--
3,226	--	--	--	9,740	--	--	--	9,680	10,640	10,860	--	--
3,395	--	--	--	10,260	--	--	--	10,190	11,200	10,370	--	--
3,395	--	--	--	10,260	--	--	--	10,190	11,200	10,370	--	--
3,735	--	--	--	11,280	--	--	--	11,210	12,320	11,990	--	--
3,735	--	--	--	11,280	--	--	--	11,210	12,320	12,510	--	--
3,735	--	--	--	11,280	--	--	--	11,210	12,320	12,510	--	--
3,735	--	--	--	11,280	--	--	--	11,210	12,320	11,790	--	--
3,735	--	--	--	11,280	--	--	--	11,210	12,320	13,030	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
14	--	115.53	0.820	12.360	12.173	12.250	P110 HC	9,510
14	--	115.53	0.820	12.360	12.173	12.250	P110 HP	10,120
14	--	115.53	0.820	12.360	12.173	12.250	Q125	9,230
14	--	115.53	0.820	12.360	12.173	12.250	Q125 HC	9,920
14	--	115.53	0.820	12.360	12.173	12.250	Q125 HP	10,530
14	--	115.53	0.820	12.360	12.173	12.250	USS 140	9,700
14	--	115.53	0.820	12.360	12.173	12.250	USS V150	9,940
16	65.00	62.64	0.375	15.250	15.063	--	H40	630
16	75.00	72.86	0.438	15.124	14.937	--	J55	1,020
16	75.00	72.86	0.438	15.124	14.937	--	K55	1,020
16	75.00	72.86	0.438	15.124	14.937	--	USS GT80S	1,020
16	75.00	72.86	0.438	15.124	14.937	--	L80	1,020
16	75.00	72.86	0.438	15.124	14.937	--	L80 HC	1,310
16	75.00	72.86	0.438	15.124	14.937	--	L80 HP	1,460
16	75.00	72.86	0.438	15.124	14.937	--	N80	1,020
16	75.00	72.86	0.438	15.124	14.937	--	N80 HC	1,320
16	75.00	72.86	0.438	15.124	14.937	--	N80 HP	1,430
16	75.00	72.86	0.438	15.124	14.937	--	R95	1,020
16	75.00	72.86	0.438	15.124	14.937	--	USS RYH110	1,020
16	75.00	72.86	0.438	15.124	14.937	--	USS RYS110	1,020
16	75.00	72.86	0.438	15.124	14.937	--	P110 SR16	1,020
16	75.00	72.86	0.438	15.124	14.937	--	P110	1,020
16	75.00	72.86	0.438	15.124	14.937	--	P110 HC	1,350
16	75.00	72.86	0.438	15.124	14.937	--	P110 HP	1,460
16	75.00	72.86	0.438	15.124	14.937	--	Q125	1,020
16	75.00	72.86	0.438	15.124	14.937	--	Q125 HC	1,350
16	75.00	72.86	0.438	15.124	14.937	--	Q125 HP	1,470
16	75.00	72.86	0.438	15.124	14.937	--	USS 140	1,020
16	75.00	72.86	0.438	15.124	14.937	--	USS V150	1,020
16	84.00	82.05	0.495	15.010	14.823	--	J55	1,410
16	84.00	82.05	0.495	15.010	14.823	--	K55	1,410
16	84.00	82.05	0.495	15.010	14.823	--	USS GT80S	1,480
16	84.00	82.05	0.495	15.010	14.823	--	L80	1,480
16	84.00	82.05	0.495	15.010	14.823	--	L80 HC	1,820
16	84.00	82.05	0.495	15.010	14.823	--	L80 HP	1,940
16	84.00	82.05	0.495	15.010	14.823	--	N80	1,480
16	84.00	82.05	0.495	15.010	14.823	--	N80 HC	1,850
16	84.00	82.05	0.495	15.010	14.823	--	N80 HP	1,970
16	84.00	82.05	0.495	15.010	14.823	--	R95	1,480
16	84.00	82.05	0.495	15.010	14.823	--	USS RYH110	1,480
16	84.00	82.05	0.495	15.010	14.823	--	USS RYS110	1,480
16	84.00	82.05	0.495	15.010	14.823	--	P110 SR16	1,480
16	84.00	82.05	0.495	15.010	14.823	--	P110	1,480
16	84.00	82.05	0.495	15.010	14.823	--	P110 HC	1,930
16	84.00	82.05	0.495	15.010	14.823	--	P110 HP	2,050

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter			
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling		
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End					
Yield	Threaded and Coupled				STC	LTC	BTC		psi					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.		
3,735	--	--	--	11,280	--	--	--	11,210	12,320	13,030	--	--		
4,244	--	--	--	13,180	--	--	--	13,090	14,390	14,080	--	--		
4,244	--	--	--	12,820	--	--	--	12,740	14,000	14,180	--	--		
4,244	--	--	--	12,820	--	--	--	12,740	14,000	14,180	--	--		
4,584	--	--	--	14,230	--	--	--	14,130	15,550	15,230	--	--		
4,753	--	--	--	14,360	--	--	--	14,260	15,680	15,870	--	--		
5,093	--	--	--	15,390	--	--	--	15,280	16,800	17,010	--	--		
736	439	--	--	1,640	1,640	--	--	1,640	1,850	1,770	17.000	--		
1,178	710	--	1,200	2,630	2,630	--	2,630	2,630	2,960	2,600	17.000	--		
1,178	752	--	1,331	2,630	2,630	--	2,630	2,630	2,960	3,300	17.000	--		
1,713	--	--	--	3,830	--	--	--	3,820	4,310	4,020	--	--		
1,713	--	--	--	3,830	--	--	--	3,820	4,310	4,020	--	--		
1,713	--	--	--	3,830	--	--	--	3,820	4,310	4,020	--	--		
1,820	--	--	--	4,190	--	--	--	4,180	4,580	4,160	--	--		
1,713	--	--	--	3,830	--	--	--	3,820	4,310	4,230	--	--		
1,713	--	--	--	3,830	--	--	--	3,820	4,310	4,230	--	--		
2,034	--	--	--	4,680	--	--	--	4,670	5,120	4,630	--	--		
2,034	--	--	--	4,550	--	--	--	4,540	5,120	4,480	--	--		
2,356	--	--	--	5,270	--	--	--	5,260	5,920	5,680	--	--		
2,356	--	--	--	5,270	--	--	--	5,260	5,920	5,680	--	--		
2,356	--	--	--	5,270	--	--	--	5,260	5,920	5,370	--	--		
2,356	--	--	--	5,270	--	--	--	5,260	5,920	5,920	--	--		
2,356	--	--	--	5,270	--	--	--	5,260	5,920	5,920	--	--		
2,677	--	--	--	6,160	--	--	--	6,150	6,730	6,400	--	--		
2,677	--	--	--	5,980	--	--	--	5,980	6,730	6,440	--	--		
2,677	--	--	--	5,980	--	--	--	5,980	6,730	6,440	--	--		
2,891	--	--	--	6,650	--	--	--	6,640	7,270	6,920	--	--		
2,998	--	--	--	6,700	--	--	--	6,690	7,540	7,210	--	--		
3,212	--	--	--	7,180	--	--	--	7,170	8,080	7,730	--	--		
1,326	817	--	1,351	2,980	2,980	--	2,980	2,970	3,340	2,950	17.000	--		
1,326	865	--	1,499	2,980	2,980	--	2,980	2,970	3,340	3,740	17.000	--		
1,929	1,155	--	1,861	4,330	4,330	--	4,330	4,320	4,850	4,560	17.000	--		
1,929	1,155	--	1,861	4,330	4,330	--	4,330	4,320	4,850	4,560	17.000	--		
1,929	1,155	--	1,861	4,330	4,330	--	4,330	4,320	4,850	4,560	17.000	--		
2,050	1,214	--	1,934	4,740	4,740	--	4,740	4,730	5,310	4,720	17.000	--		
1,929	1,167	--	1,898	4,330	4,330	--	4,330	4,320	4,850	4,800	17.000	--		
1,929	1,167	--	1,898	4,330	4,330	--	4,330	4,320	4,850	4,800	17.000	--		
2,291	1,354	--	2,153	5,300	5,300	--	5,300	5,290	5,930	5,260	17.000	--		
2,291	1,354	--	2,153	5,140	5,140	--	5,140	5,130	5,760	5,080	17.000	--		
2,652	--	--	--	5,950	--	--	--	5,940	6,670	6,440	--	--		
2,652	--	--	--	5,950	--	--	--	5,940	6,670	6,440	--	--		
2,652	1,575	--	2,518	5,950	5,950	--	5,950	5,940	6,670	6,090	17.000	--		
2,652	1,575	--	2,518	5,950	5,950	--	5,950	5,940	6,670	6,710	17.000	--		
2,652	1,575	--	2,518	5,950	5,950	--	5,950	5,940	6,670	6,710	17.000	--		
3,014	1,762	--	2,772	6,970	6,970	--	6,970	6,960	7,800	7,260	17.000	--		

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
16	84.00	82.05	0.495	15.010	14.823	--	Q125	1,480
16	84.00	82.05	0.495	15.010	14.823	--	Q125 HC	1,940
16	84.00	82.05	0.495	15.010	14.823	--	Q125 HP	2,070
16	84.00	82.05	0.495	15.010	14.823	--	USS 140	1,480
16	84.00	82.05	0.495	15.010	14.823	--	USS V150	1,480
16	97.00	94.81	0.575	14.850	14.663	--	J55	1,950
16	97.00	94.81	0.575	14.850	14.663	--	K55	1,950
16	97.00	94.81	0.575	14.850	14.663	--	USS GT80S	2,270
16	97.00	94.81	0.575	14.850	14.663	--	L80	2,270
16	97.00	94.81	0.575	14.850	14.663	--	L80 HC	2,700
16	97.00	94.81	0.575	14.850	14.663	--	L80 HP	2,860
16	97.00	94.81	0.575	14.850	14.663	--	N80	2,270
16	97.00	94.81	0.575	14.850	14.663	--	N80 HC	2,760
16	97.00	94.81	0.575	14.850	14.663	--	N80 HP	2,940
16	97.00	94.81	0.575	14.850	14.663	--	R95	2,340
16	97.00	94.81	0.575	14.850	14.663	--	USS RYH110	2,340
16	97.00	94.81	0.575	14.850	14.663	--	USS RYS110	2,340
16	97.00	94.81	0.575	14.850	14.663	--	P110 SR16	2,340
16	97.00	94.81	0.575	14.850	14.663	--	P110	2,340
16	97.00	94.81	0.575	14.850	14.663	--	P110 HC	2,930
16	97.00	94.81	0.575	14.850	14.663	--	P110 HP	3,110
16	97.00	94.81	0.575	14.850	14.663	--	Q125	2,340
16	97.00	94.81	0.575	14.850	14.663	--	Q125 HC	2,960
16	97.00	94.81	0.575	14.850	14.663	--	Q125 HP	3,150
16	97.00	94.81	0.575	14.850	14.663	--	USS 140	2,340
16	97.00	94.81	0.575	14.850	14.663	--	USS V150	2,340
16	109.00	107.60	0.656	14.688	14.501	--	J55	2,560
16	109.00	107.60	0.656	14.688	14.501	--	K55	2,560
16	109.00	107.60	0.656	14.688	14.501	--	USS GT80S	3,080
16	109.00	107.60	0.656	14.688	14.501	--	L80	3,080
16	109.00	107.60	0.656	14.688	14.501	--	L80 HC	3,710
16	109.00	107.60	0.656	14.688	14.501	--	L80 HP	3,940
16	109.00	107.60	0.656	14.688	14.501	--	N80	3,080
16	109.00	107.60	0.656	14.688	14.501	--	N80 HC	3,830
16	109.00	107.60	0.656	14.688	14.501	--	N80 HP	4,090
16	109.00	107.60	0.656	14.688	14.501	--	R95	3,320
16	109.00	107.60	0.656	14.688	14.501	--	USS C100	3,380
16	109.00	107.60	0.656	14.688	14.501	--	USS RYS100	3,380
16	109.00	107.60	0.656	14.688	14.501	--	C110	3,470
16	109.00	107.60	0.656	14.688	14.501	--	USS C110	3,470
16	109.00	107.60	0.656	14.688	14.501	--	USS RYH110	3,470
16	109.00	107.60	0.656	14.688	14.501	--	USS RYS110	3,470
16	109.00	107.60	0.656	14.688	14.501	--	P110 SR16	3,470
16	109.00	107.60	0.656	14.688	14.501	--	P110	3,470
16	109.00	107.60	0.656	14.688	14.501	--	P110 HC	4,160

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame’ - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
3,014	1,773	--	2,809	6,770	6,770	--	6,770	6,750	7,580	7,300	17.000	--
3,014	1,773	--	2,809	6,770	6,770	--	6,770	6,750	7,580	7,300	17.000	--
3,255	1,901	--	2,991	7,530	7,530	--	7,530	7,510	8,430	7,860	17.000	--
3,376	1,983	--	3,138	7,580	7,580	--	7,580	7,560	8,490	8,180	17.000	--
3,617	2,123	--	3,356	8,120	8,120	--	8,120	8,100	9,100	8,770	17.000	--
1,533	967	--	1,561	3,460	3,460	--	3,460	3,450	3,860	3,440	17.000	--
1,533	1,023	--	1,732	3,460	3,460	--	3,460	3,450	3,860	4,350	17.000	--
2,229	1,367	--	2,151	5,030	5,030	--	5,030	5,020	5,610	5,320	17.000	--
2,229	1,367	--	2,151	5,030	5,030	--	5,030	5,020	5,610	5,320	17.000	--
2,229	1,367	--	2,151	5,030	5,030	--	5,030	5,020	5,610	5,320	17.000	--
2,368	1,435	--	2,235	5,500	5,500	--	5,500	5,490	6,130	5,510	17.000	--
2,229	1,381	--	2,194	5,030	5,030	--	5,030	5,020	5,610	5,600	17.000	--
2,229	1,381	--	2,194	5,030	5,030	--	5,030	5,020	5,610	5,600	17.000	--
2,647	1,601	--	2,488	6,150	5,800	--	6,080	6,130	6,860	6,130	17.000	--
2,647	1,601	--	2,488	5,970	5,970	--	5,970	5,960	6,670	5,920	17.000	--
3,065	--	--	--	6,920	--	--	--	6,900	7,720	7,520	--	--
3,065	--	--	--	6,920	--	--	--	6,900	7,720	7,520	--	--
3,065	1,863	--	2,910	6,920	6,920	--	6,920	6,900	7,720	7,100	17.000	--
3,065	1,863	--	2,910	6,920	6,920	--	6,920	6,900	7,720	7,830	17.000	--
3,065	1,863	--	2,910	6,920	6,920	--	6,920	6,900	7,720	7,830	17.000	--
3,483	2,083	--	3,204	8,090	7,970	--	8,090	8,070	9,020	8,470	17.000	--
3,483	2,097	--	3,246	7,860	7,860	--	7,860	7,840	8,770	8,520	17.000	--
3,483	2,097	--	3,246	7,860	7,860	--	7,860	7,840	8,770	8,520	17.000	--
3,762	2,249	--	3,457	8,740	8,740	--	8,740	8,720	9,740	9,170	17.000	--
3,901	2,346	--	3,626	8,800	8,800	--	8,800	8,780	9,820	9,540	17.000	--
4,180	2,511	--	3,879	9,430	9,430	--	9,430	9,410	10,520	10,230	17.000	--
1,739	1,116	--	1,772	3,950	3,950	--	3,950	3,930	4,380	3,940	17.000	--
1,739	1,181	--	1,965	3,950	3,950	--	3,950	3,930	4,380	4,990	17.000	--
2,530	1,578	--	2,441	5,740	5,740	--	5,740	5,720	6,370	6,090	17.000	--
2,530	1,578	--	2,441	5,740	5,740	--	5,740	5,720	6,370	6,090	17.000	--
2,530	1,578	--	2,441	5,740	5,740	--	5,740	5,720	6,370	6,090	17.000	--
2,688	1,657	--	2,536	6,270	5,800	--	6,080	6,250	6,970	6,290	17.000	--
2,530	1,594	--	2,489	5,740	5,740	--	5,740	5,720	6,370	6,410	17.000	--
2,530	1,594	--	2,489	5,740	5,740	--	5,740	5,720	6,370	6,410	17.000	--
3,004	1,848	--	2,823	7,010	5,800	--	6,080	6,980	7,780	7,010	17.000	--
3,004	1,848	--	2,823	6,820	6,820	--	6,820	6,790	7,570	6,780	17.000	--
3,162	1,911	--	2,870	7,180	7,180	--	7,180	7,150	7,970	7,150	17.000	--
3,162	1,911	--	2,870	7,180	7,180	--	7,180	7,150	7,970	7,150	17.000	--
3,478	--	--	--	7,890	--	--	--	7,870	8,770	8,260	--	--
3,478	--	--	--	7,890	--	--	--	7,870	8,770	8,620	--	--
3,478	--	--	--	7,890	--	--	--	7,870	8,770	8,620	--	--
3,478	--	--	--	7,890	--	--	--	7,870	8,770	8,620	--	--
3,478	2,151	--	3,302	7,890	7,890	--	7,890	7,870	8,770	8,130	17.000	--
3,478	2,151	--	3,302	7,890	7,890	--	7,890	7,870	8,770	8,980	17.000	--
3,478	2,151	--	3,302	7,890	7,890	--	7,890	7,870	8,770	8,980	17.000	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
16	109.00	107.60	0.656	14.688	14.501	--	P110 HP	4,420
16	109.00	107.60	0.656	14.688	14.501	--	Q125	3,520
16	109.00	107.60	0.656	14.688	14.501	--	Q125 HC	4,230
16	109.00	107.60	0.656	14.688	14.501	--	Q125 HP	4,500
16	109.00	107.60	0.656	14.688	14.501	--	USS 140	3,520
16	109.00	107.60	0.656	14.688	14.501	--	USS V150	3,520
18 5/8	87.50	84.59	0.435	17.755	17.568	--	H40	630
18 5/8	87.50	84.59	0.435	17.755	17.568	--	J55	630
18 5/8	87.50	84.59	0.435	17.755	17.568	--	K55	630
18 5/8	87.50	84.59	0.435	17.755	17.568	--	N80	630
18 5/8	87.50	84.59	0.435	17.755	17.568	--	N80 HC	830
18 5/8	87.50	84.59	0.435	17.755	17.568	--	N80 HP	910
18 5/8	94.50	90.84	0.468	17.689	17.502	--	K55	780
18 5/8	94.50	90.84	0.468	17.689	17.502	--	N80	780
18 5/8	94.50	90.84	0.468	17.689	17.502	--	N80 HC	1,030
18 5/8	94.50	90.84	0.468	17.689	17.502	--	N80 HP	1,120
18 5/8	117.50	114.31	0.593	17.439	17.252	--	K55	1,510
18 5/8	117.50	114.31	0.593	17.439	17.252	--	N80	1,620
18 5/8	117.50	114.31	0.593	17.439	17.252	--	N80 HC	2,020
18 5/8	117.50	114.31	0.593	17.439	17.252	--	N80 HP	2,200
20	94.00	91.59	0.438	19.124	18.937	--	H40	520
20	94.00	91.59	0.438	19.124	18.937	--	J55	520
20	94.00	91.59	0.438	19.124	18.937	--	K55	520
20	94.00	91.59	0.438	19.124	18.937	--	N80	520
20	94.00	91.59	0.438	19.124	18.937	--	N80 HC	690
20	94.00	91.59	0.438	19.124	18.937	--	N80 HP	750
20	106.50	104.23	0.500	19.000	18.813	--	J55	770
20	106.50	104.23	0.500	19.000	18.813	--	K55	770
20	106.50	104.23	0.500	19.000	18.813	--	N80	770
20	106.50	104.23	0.500	19.000	18.813	--	N80 HC	1,010
20	106.50	104.23	0.500	19.000	18.813	--	N80 HP	1,100
20	133.00	131.45	0.635	18.730	18.543	--	J55	1,500
20	133.00	131.45	0.635	18.730	18.543	--	K55	1,500
20	133.00	131.45	0.635	18.730	18.543	--	N80	1,600
20	133.00	131.45	0.635	18.730	18.543	--	N80 HC	1,990
20	133.00	131.45	0.635	18.730	18.543	--	N80 HP	2,120
20	133.00	131.45	0.635	18.730	18.543	--	USS C100	1,600
20	133.00	131.45	0.635	18.730	18.543	--	USS RYS100	1,600
20	133.00	131.45	0.635	18.730	18.543	--	C110	1,600
20	133.00	131.45	0.635	18.730	18.543	--	USS C110	1,600
20	133.00	131.45	0.635	18.730	18.543	--	USS RYS110	1,600
20	163.00	160.46	0.781	18.438	18.251	--	K55	2,290
20	163.00	160.46	0.781	18.438	18.251	--	L80	2,770
20	163.00	160.46	0.781	18.438	18.251	--	N80	2,770
20	163.00	160.46	0.781	18.438	18.251	--	R95	2,940

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical			Lame' - Von Mises					
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
3,953	2,405	--	3,636	9,220	7,970	--	8,360	9,190	10,240	9,690	17.000	--
3,953	2,422	--	3,684	8,970	8,970	--	8,970	8,940	9,960	9,770	17.000	--
3,953	2,422	--	3,684	8,970	8,970	--	8,970	8,940	9,960	9,770	17.000	--
4,269	2,597	--	3,923	9,960	9,060	--	9,500	9,920	11,060	10,490	17.000	--
4,427	2,708	--	4,115	10,050	10,050	--	10,050	10,010	11,160	10,930	17.000	--
4,743	2,900	--	4,402	10,760	10,760	--	10,760	10,730	11,950	11,720	17.000	--
994	559	--	--	1,640	1,640	--	--	1,630	1,840	1,760	20.000	--
1,367	754	--	1,329	2,250	2,250	--	2,250	2,250	2,540	2,220	20.000	--
1,367	794	--	1,427	2,250	2,250	--	2,250	2,250	2,540	2,810	20.000	--
1,989	--	--	--	3,270	--	--	--	3,270	3,690	3,610	--	--
1,989	--	--	--	3,270	--	--	--	3,270	3,690	3,610	--	--
2,362	--	--	--	4,000	--	--	--	3,990	4,380	3,950	--	--
1,468	865	--	1,533	2,420	2,420	--	2,420	2,420	2,720	3,030	20.000	--
2,136	--	--	--	3,520	--	--	--	3,520	3,960	3,890	--	--
2,136	--	--	--	3,520	--	--	--	3,520	3,960	3,890	--	--
2,536	--	--	--	4,290	--	--	--	4,290	4,710	4,240	--	--
1,848	1,129	--	1,929	3,070	3,070	--	3,070	3,060	3,430	3,850	20.000	--
2,687	--	--	--	4,460	--	--	--	4,450	4,990	4,940	--	--
2,687	--	--	--	4,460	--	--	--	4,450	4,990	4,940	--	--
3,191	--	--	--	5,450	--	--	--	5,440	5,930	5,410	--	--
1,077	581	673	--	1,530	1,530	1,530	--	1,530	1,730	1,650	21.000	--
1,480	783	907	1,402	2,110	2,110	2,110	2,110	2,100	2,380	2,080	21.000	--
1,480	823	955	1,479	2,110	2,110	2,110	2,110	2,100	2,380	2,630	21.000	--
2,153	--	--	--	3,060	--	--	--	3,060	3,460	3,370	--	--
2,153	--	--	--	3,060	--	--	--	3,060	3,460	3,370	--	--
2,557	--	--	--	3,740	--	--	--	3,740	4,110	3,690	--	--
1,685	913	1,056	1,596	2,410	2,410	2,410	2,410	2,410	2,710	2,380	21.000	--
1,685	959	1,113	1,683	2,410	2,410	2,410	2,410	2,410	2,710	3,010	21.000	--
2,450	--	--	--	3,500	--	--	--	3,500	3,940	3,870	--	--
2,450	--	--	--	3,500	--	--	--	3,500	3,940	3,870	--	--
2,910	--	--	--	4,280	--	--	--	4,270	4,680	4,220	--	--
2,125	1,192	1,379	2,012	3,060	3,060	3,060	3,060	3,050	3,420	3,030	21.000	--
2,125	1,252	1,453	2,123	3,060	3,060	3,060	3,060	3,050	3,420	3,840	21.000	--
3,091	1,706	1,973	2,877	4,450	4,450	4,450	4,450	4,440	4,980	4,090	21.000	--
3,091	1,706	1,973	2,877	4,450	4,450	4,450	4,450	4,440	4,980	4,090	21.000	--
3,670	1,984	2,293	3,340	5,430	4,710	5,010	4,920	5,420	6,080	4,510	21.000	--
3,863	2,056	2,375	3,458	5,560	5,560	5,560	5,560	5,550	6,220	5,150	21.000	--
3,863	2,056	2,375	3,458	5,560	5,560	5,560	5,560	5,550	6,220	5,150	21.000	--
4,250	2,277	2,630	3,832	6,120	6,120	6,120	6,120	6,100	6,840	5,960	21.000	--
4,250	2,292	2,649	3,859	6,120	6,120	6,120	6,120	6,100	6,840	6,210	21.000	--
4,250	2,292	2,649	3,859	6,120	6,120	6,120	6,120	6,100	6,840	6,210	21.000	--
2,594	1,565	1,815	2,591	3,760	3,240	3,440	3,380	3,750	4,180	4,740	21.000	--
3,772	--	--	--	5,460	--	--	--	5,450	6,080	5,790	--	--
3,772	--	--	--	5,460	--	--	--	5,450	6,080	6,090	--	--
4,480	--	--	--	6,490	--	--	--	6,470	7,220	6,450	--	--

CASING TABLES

Dimensional & Grade Designators								Collapse Resistance
OD Size	Weight		NOM Wall	NOM ID	API Drift	Alternate Drift	Product	
	T&C	PE						
in.	lb/ft	lb/ft	in.	in.	in.	in.	Grade	psi
20	163.00	160.46	0.781	18.438	18.251	--	P110 SR16	3,020
20	163.00	160.46	0.781	18.438	18.251	--	P110	3,020
20	163.00	160.46	0.781	18.438	18.251	--	Q125	3,030
20	163.00	160.46	0.781	18.438	18.251	--	USS 140	3,030
20	163.00	160.46	0.781	18.438	18.251	--	USS V150	3,030
20	169.00	166.56	0.812	18.376	18.189	--	K55	2,500
24	--	163.22	0.654	22.692	22.505	22.625	K55	1,000
24	--	163.22	0.654	22.692	22.505	22.625	L80	1,000
24	--	163.22	0.654	22.692	22.505	22.625	N80	1,000
24	--	163.22	0.654	22.692	22.505	22.625	R95	1,000
24	--	163.22	0.654	22.692	22.505	22.625	P110 SR16	1,000
24	--	163.22	0.654	22.692	22.505	22.625	P110	1,000
24	--	163.22	0.654	22.692	22.505	22.625	Q125	1,000
24	--	163.22	0.654	22.692	22.505	22.625	USS 140	1,000
24	--	163.22	0.654	22.692	22.505	22.625	USS V150	1,000

TENSION				Internal Yield						Ductile Rupture Capped End	Outside Diameter	
				API Historical				Lame' - Von Mises			Regular Coupling	Special Clr Coupling
Joint Strength, 1,000 lbs				Pipe Body	Threaded & Coupled			Open End	Capped End			
Yield	Threaded and Coupled				STC	LTC	BTC					
Pipe Body	STC	LTC	BTC	psi	psi	psi	psi	psi	psi	psi	in.	in.
5,187	--	--	--	7,510	--	--	--	7,490	8,360	7,730	--	--
5,187	--	--	--	7,510	--	--	--	7,490	8,360	8,530	--	--
5,895	--	--	--	8,540	--	--	--	8,510	9,500	9,280	--	--
6,602	--	--	--	9,560	--	--	--	9,530	10,640	10,390	--	--
7,073	--	--	--	10,250	--	--	--	10,210	11,400	11,140	--	--
2,692	1,631	1,892	2,689	3,910	3,240	3,440	3,380	3,900	4,340	4,940	21.000	--
2,638	--	--	--	2,620	--	--	--	2,620	2,950	3,280	--	--
3,837	--	--	--	3,810	--	--	--	3,810	4,290	4,000	--	--
3,837	--	--	--	3,810	--	--	--	3,810	4,290	4,210	--	--
4,557	--	--	--	4,530	--	--	--	4,520	5,090	4,460	--	--
5,276	--	--	--	5,240	--	--	--	5,240	5,900	5,350	--	--
5,276	--	--	--	5,240	--	--	--	5,240	5,900	5,890	--	--
5,996	--	--	--	5,960	--	--	--	5,950	6,700	6,410	--	--
6,715	--	--	--	6,670	--	--	--	6,660	7,510	7,180	--	--
7,195	--	--	--	7,150	--	--	--	7,140	8,040	7,700	--	--



First run of USS-PATRIOT TC® premium connections. Range Resources rig in Williamsport, Pennsylvania.

GLOSSARY

ANSI	American National Standards Institute (Formerly the ASA – American Standards Association).
API	American Petroleum Institute.
ASTM	American Society for Testing and Materials.
Austenitize	A process that elevates the tube temperature above the upper critical temperature (1,550 – 1,650°F) to form austenite and is held until all carbon and alloying elements are in solution prior to quenching or air cooling.
BTC	API Buttress Threaded and Coupled connection.
Bevel	The angle formed between the prepared edge of the end of the pipe and a plane perpendicular to the surface of the member. The standard bevel for line pipe is 30 degrees to facilitate welding.
Billet	A solid semi-finished round or square product that has been either directly cast from a strand caster or hot worked by forging, rolling or extrusion.
Charpy Test	A method for measuring the amount of energy absorbed by a notched specimen during fracture as a result of an impact load. Commonly used to measure the resistance of crack propagation of the material being tested.
Chemical Properties	Normally associated with a limited number of chemical elements. Minimum and/or maximum limits are established in most ASTM and API specifications.
Coating	The process of covering steel with another material, primarily for corrosion resistance.
Collapse Testing	A test that subjects a tubular test sample to an external pressure equal to or greater than the minimum collapse resistance of the specified tubular product.
Continuous Casting	The process of pouring and the solidification of steel heats in a continuous strand.
Continuous Weld (CW)	In common usage, a phrase for continuous butt weld.
Coupling	Threaded sleeve used to connect two lengths of pipe.
Dry	Term associated with pipe surface whereby the pipe will not be coated with a corrosion inhibitor and all grease spots and cutting oil are removed by washing.
Ductility	The ability of a material to deform plastically without fracturing. Measured by elongation or reductions of area in a tensile test or by other means.
Elongation	In tensile testing, the increase in the gage length, measured after fracture of the specimen within the gage length, usually expressed as a percentage of the original gage length.
Ε1	Casing Round Thread Pitch Diameter at the plane of Hand-tight engagement (see Figure 3, page 8, API Specification 5B 15th Edition).
Ε7	Buttress Casing Pitch Diameter at the plane of perfect thread length (see Figure 5, page 12, API Specification 5B 15th Edition).
EMI	Electromagnetic Inspection unit. An inspection technology that utilizes magnetic flux leakage to locate discontinuities on the surface and to limited depth below the surface of the product.

GLOSSARY

ERW	Electric Resistance Weld. In tubular manufacture, a high frequency electrical seam welding process that produces coalescence of the longitudinal through-wall surfaces which are rapidly heated to high, near-melting temperatures by the electrical resistance of the tube material and then brought together with a pre-determined force to fuse the edges together forming the weld.
EUE	External Upset End.
Eddy Current Testing	An electromagnetic surface inspection technology that utilizes the magnetic permeability of the tube to locate discontinuities on the surface of the product.
Flattening Test	A quality test for a pipe in which a specimen is flattened between parallel plates that are closed to a specified distance.
Fracture Test	Breaking a piece of metal for the purpose of examining the fractured surface to determine the structure or ductile characteristics of the metal, or to detect the presence of internal defects.
Full-Body Induction	A non-contact electric field process that elevates the tube temperature above the upper critical temperature (1,550 – 1,650°F) to form austenite end-to-end and around the entire circumference and is held until all carbon and alloying elements are in solution prior to air cooling to a temperature below the lower critical transformation temperature.
Grade	Divisions within tubular products based on chemical and mechanical properties.
Hardenability	The property that determines the depth to which the steel will harden when rapidly quenched.
Hardness	Defined in terms of the method of measurement. [1] Usually the resistance to indentation. [2] Stiffness of temper of wrought products. [3] Machinability characteristics.
Heat	An individual batch of metal of a single chemical composition, which is produced by a single cycle of a batch melting process.
Heat Analysis (Ladle)	The term applied to the chemical analysis representative of a heat of steel. It is determined by analyzing [for such elements as have been specified] a test sample obtained during the pouring of the steel from a ladle.
HIC Resistant	Intended for use in H ₂ S (hydrogen sulfide) environment (wet sour gas environment) and has resistance to Hydrogen-Induced Cracking (HIC). U. S. Steel's HIC Resistant Steel is produced using a clean steel practice with restricted sulfur levels and calcium injection for enhanced sulfide morphology. HIC testing is in accordance with NACE Standard TM-0284-00 using either the BP solution or the NACE TM-01-7 Solution. Limits on CLR, CTR and CSR, along with any other restriction, are generally agreed to prior to order entry.
HRC	Rockwell C-scale Hardness.
Hydrostatic Test	Normal mill test as required by specifications. The pipe ends are sealed, filled with water and pressurized to pre-determined pressures as required by specifications.
ID	Inside Diameter of pipe.
ID/OD Quenching	A process that subjects both the inside and outside surfaces of a heated tube (1,550 – 1,650°F) with high volume water impingement spray.

Impact Test	A test performed at a specified temperature to determine the behavior of material when subjected to high rates of loading, usually in bending, tension or torsion. The quantity measured is the energy absorbed in breaking the specimen by a single blow, as in a Charpy test.
L&T	Longitudinal and Transverse.
Magnetic Particle Inspection (MPI)	A non-destructive method of inspection for determining the existence and extent of possible defects in ferromagnetic materials. Fine magnetic particles are applied to a magnetized part, which are attracted to and outline the pattern of any magnetic-leakage fields created by surface discontinuities.
Magnetic Particle Test	An inspection technique that uses magnetic flux leakage at surface discontinuities to attract wet or dry magnetic particles and make surface imperfections visible.
Mandrel Mill	A hot forming process that utilizes the insertion of a steel bar on the inside of a tube shell while the outside dimensions of the shell are hot reduced.
Mechanical Properties	The properties of a material that reveal its elastic and inelastic behavior where force is applied, thereby indicating its suitability for mechanical applications; for example, tensile strength, elongation and hardness.
NUE	Non-Upset End.
NDE	Non-Destructive Evaluation.
NDT	Non-Destructive Testing. The utilization of non-destructive testing methods. As applied to tubular products NDT testing methods are primarily electromagnetic flux leakage, eddy current, liquid penetrant, magnetic particle, radiography and ultrasonics.
Normalizing	Heating a ferrous material to a suitable temperature above the transformation range and then cooling it in air to a temperature substantially below the transformation range.
OCTG	Oil Country Tubular Goods.
OD	Outside Diameter of pipe.
PE	Plain End.
PESC	Plain End Square Cut.
Product Analysis	A chemical analysis of the pipe.
PSI	Pounds per Square Inch.
PSIG	Pounds per Square Inch Gage.
PSL	Product Specification Level.
Regular Mill Coat	Term associated with pipe surface whereby the pipe will be coated with a corrosion inhibitor.
SEA	Special End Area inspection.
Skelp	A hot rolled coil of steel from which ERW tubular products are made by cold rolling the skelp into a circular shape and longitudinally welding the edges together.
SMLS	Seamless.
SMTS	Specified Minimum Tensile Strength.
SMYS	Specified Minimum Yield Strength.

GLOSSARY

SRM	Hot Stretch Reduction Mill. A process that longitudinally stretches tubular shells at elevated temperatures [1,750 – 2,050°F] and at the same time reduces the shell's outside diameter dimensions.
Stencil	Identification placed on pipe. Specification, size, wall, grade, test pressure, method of manufacture and normal mill characters and mill identification are usually included. However, detail varies by specification.
Straightening	The removal of sweep and camber by roller straightening or by use of a gag press.
Stress	The load per unit of area. True stress is the load divided by area at that moment.
Stress Relieving	A process of reducing residual stresses in a metal object by heating the object to a suitable temperature and holding for a sufficient time, then cooling slowly. This treatment may be applied to relieve stresses induced by casting, quenching, normalizing, machining, cold working and welding.
Surface Inspection	The inspection of the outside and inside surface of tubular products for defects such as scabs, seams, burned steel, laps, twist, guide marks, etc.
T&C	Threaded and Coupled.
TBE	Threaded Both Ends.
Tensile Strength	In tensile testing, the ratio of maximum load to original cross-sectional area. Also called ultimate strength. Usually expressed in PSI or MPA.
Toughness	Property of absorbing energy before fracture. Usually represented by the area under a stress-strain curve, and therefore involving both ductility and strength.
UT	Ultrasonic Test. A non-destructive testing method of detecting, locating and measuring both surface and subsurface indications in metals with the use of high frequency sound.
Yield Strength	The stress at which a material exhibits a specified deviation from proportionality of stress and strain. For tubular products, API 5CT defines yield strength as a tensile stress required to produce a specified elongation of the gage length as determined by an extensometer or by multiplying dividers. The results are usually expressed in PSI or MPA.

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