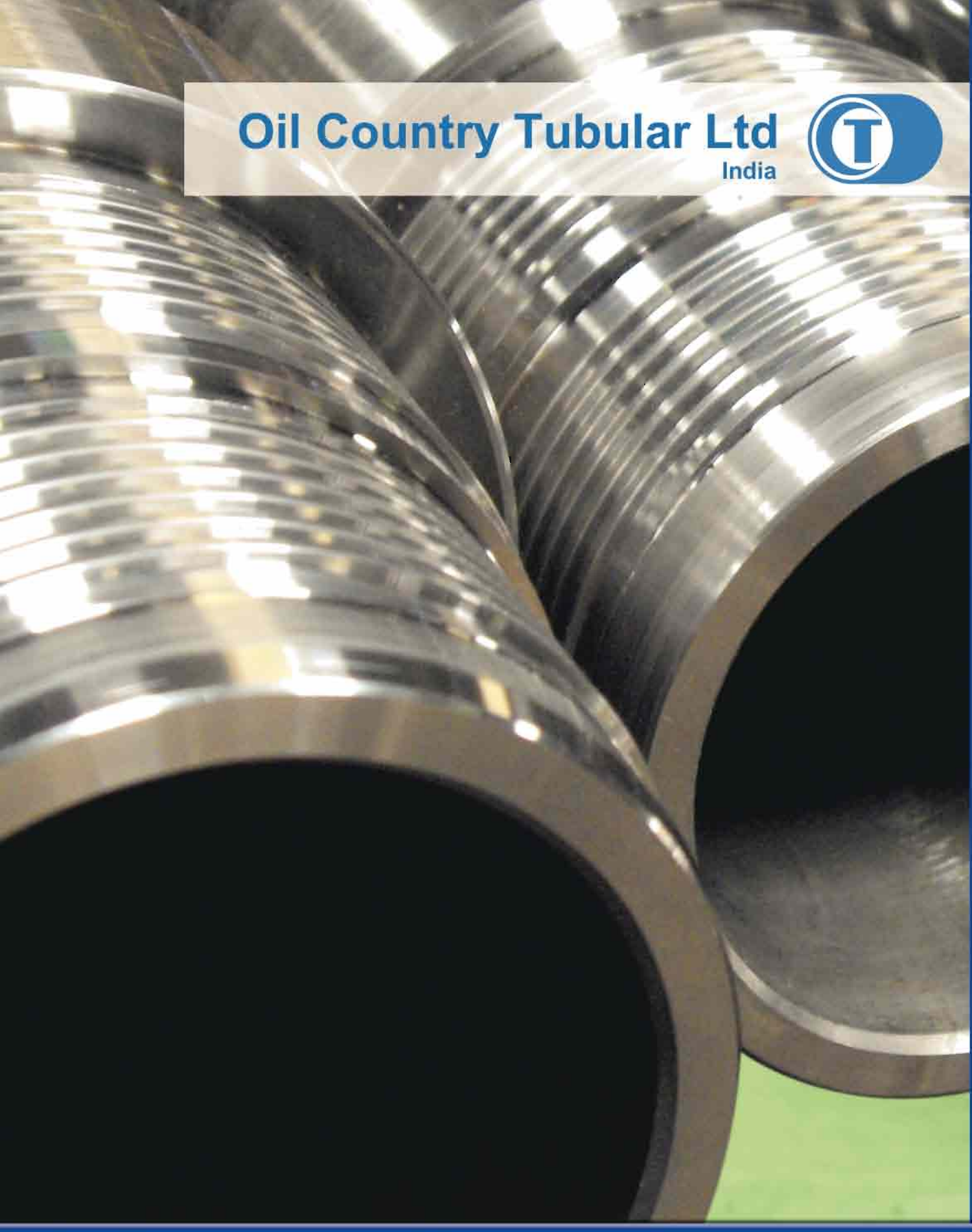


Oil Country Tubular Ltd
India

PREMIUM CONNECTIONS

OCTG

www.octlindia.com

Oil Country Tubular Ltd.

Premium Connections

- RTS-6
- RTS-8
- RSU-8
- RSU-6
- RFC
- RSS

Premium Connections Data

RTS-6: Interchangeable in a given pipe OD. Upset dimensions are different from PPF to PPF.
Sizes (OD): 2-3/8", 2-7/8", 3-1/2", 4", 4-1/2"
Remarks: Upsetting required for all sizes

RTS-8: Interchangeable in a given pipe OD. Upset dimensions are different from PPF to PPF.
Sizes (OD): 2-3/8", 2-7/8", 3-1/2", 4", 4-1/2"
Remarks: Upsetting required for all sizes

RSU-8: Interchangeable with RTS-8. Upset dimensions are different for RSU-8 and RTS-8.
Sizes (OD): 2-3/8", 2-7/8", 3-1/2", 4", 4-1/2"
Remarks: Upsetting required for all sizes

RSU-6: Interchangeable in a given OD size. Upset dimensions are different from PPF to PPF.
Sizes (OD): 5" and 5-1/2"
Remarks: Upsetting required for all sizes

RFC: Some PPFs are Interchangeable in a given pipe OD
Sizes (OD): 2-3/8", 2-7/8", 3-1/2", 4", 4-1/2", 5", 5-1/2"
Remarks: Swaging required for all sizes
(2-3/8" to 4-1/2" – RFC Tubing with 8 TPI)
(5" & 5-1/2" – RFC Casing with 6 TPI)

RSS: Not interchangeable with PPF wise in given pipe OD.
Sizes (OD): 5-1/2" , 6-5/8", 7", 7-5/8", 7-3/4", 8-5/8", 8-3/4", 9-5/8", 9-3/4", 9-7/8", 10-3/4", 11-3/4", 11-7/8", 13-3/8", 13-1/2", 13-5/8"
Remarks: Swage & Expanding required for all sizes

Interchangeable list	Pipe Outside Diameter (OD)	
RTS-6 Integral joint tubing	2-3/8 to 4-1/2 inch	Interchangeable with Hydril PH-6
RTS-6PR Integral joint tubing	2-3/8 to 4-1/2 inch	Interchangeable with Hydril PH-6-CB
RTS-8 Integral joint tubing	2-3/8 to 4-1/2 inch	Interchangeable with Hydril CS
RTS-8PR Integral joint tubing	2-3/8 to 4-1/2 inch	Interchangeable with Hydril CS-CB
RSU-8 Integral joint tubing	2-3/8 to 4-1/2 inch	Interchangeable with Hydril A-95
RSU-6 Integral joint tubing	5 to 5-1/2 inch	Interchangeable with Hydril TAC-1
RFC Flush OD Liner	2-3/8 to 5-1/2 inch	Most sizes are Interchangeable with Hydril FJ
RSS Integral joint casing	5-1/2 to 13-5/8 inch	

Introduction

Oil Country Tubular Limited (OCTL), is a processor of a wide range of Oil Country Tubular Goods and Drilling Products required for the Oil Drilling and Exploration Industry. OCTL is an ISO 9001:2008 Company and is licensed by American Petroleum Institute (API) under API Specifications 5CT, 5DP and 7-1. The products are manufactured to the relevant API Specifications and carry API monogram.

OCTL is located near Hyderabad city, India, and is an unique integrated facility. OCTL has earned worldwide recognition for the Quality of its products and services. Innovation and Technical Excellence are the driving spirit behind OCTL and the overriding focus at OCTL is on the quality of its products and services.

Facilities include Upsetting, Heat Treatment of Tubulars, Non-Destructive Testing, Metallurgical Laboratory, Gauging and Calibration Laboratory, Tool Joint and Coupling Heat Treatment and Threading, Hard Facing of Tool Joints, Casing and Tubing (OCTG) Threading, Hydrostatic Testing of OCTG, Friction Welding of Drill Pipe, Heavy Weight Drill Pipe, and Internal Plastic Coating of Drill Pipe, Heavy weight Drill Pipe and Drill Collars.

Research and Development activities are continuous phenomena at OCTL aimed at upgradation of technology and manufacturing processes.

OCTL's wide product range covers Drill Pipe, Heavy Weight Drill Pipe, Drill Collars, Kellys, Production Tubing, Casing, Tool Joints, Couplings, Pup Joints, Rotary Subs, Cross Overs and other allied products. The product range includes API and Premium connections.

OCTL premium connections include Two Step Premium Connections RTS-6, RTS-8, RSU-8 for Tubing, RFC Flush Joint connection for Tubing; RSU-6 for Casing, and Flush Joint Connections RFC and RSS for Casing. OCTL is also a licensee for the manufacture of many other Premium Connections.

OCTL believes in the principles of continuous improvement, which are put into practice at every level in the organization. It is OCTL's continuous endeavor to improve the quality of its products and services to the complete satisfaction of it's Customers, by adopting the latest manufacturing techniques, practices and technical improvements.

OCTL's sophisticated equipment, expertise and technology makes it the best option to manufacture and supply the API and Premium Connections to the customer's complete satisfaction.

Premium Connections Range

O.D (Ins.)	Nominal Weight (Lbs./Ft.)	Wall Thickness (Ins.)	Casing		Tubing			
			RSS	RFC	RSU-6 RSU-6PR	RSU-8 RSU-8PR	RTS-6 RTS-6PR	RTS-8 RTS-8PR
$2^3/_8$"	4.7	0.190		•		•		•
	5.3	0.218						•
	5.95	0.254					•	
	6.2	0.261					•	
	7.7	0.336					•	
$2^7/_8$"	6.5	0.217		•		•		•
	7.9	0.276					•	
	8.7	0.308					•	
	9.5	0.340					•	
	10.7	0.392					•	
$3^1/_2$"	9.3	0.254		•		•		•
	10.3	0.289		•				•
	12.8	0.368		•				
	12.95	0.375		•			•	
	15.5	0.449		•				
	15.8	0.476					•	
4"	11	0.262		•		•		•
	11.6	0.286		•				
	13.4	0.330		•			•	
$4^1/_2$"	12.6	0.271		•				
	12.75	0.271				•		•
	13.5	0.290		•				•
	15.1	0.337		•				
	15.5	0.337					•	
	18.8	0.430		•				
	19.2	0.430					•	
5"	15	0.296		•	•			
	18	0.362		•	•			
	20.3	0.408		•				
	20.8	0.422		•				
	23.2	0.478		•				
	24.2	0.500		•				
$5^1/_2$"	15.5	0.275	•					
	17	0.304	•	•	•			
	20	0.361	•	•	•			
	23	0.415	•	•	•			
	26	0.476	•	•				
	26.8	0.500	•					
	28.4	0.530	•					
	29.7	0.562	•					
	32.3	0.612	•					
	36.4	0.705	•					
$6^5/_8$"	20	0.288	•					
	23.2	0.330	•					
	24	0.352	•					
	28	0.417	•					
	32	0.475	•					
	35	0.525	•					
7"	20.2	0.272	•					
	23.3	0.317	•					
	26.3	0.362	•					
	29.3	0.408	•					

O.D (Ins.)	Nominal Weight (Lbs./Ft.)	Wall Thickness (Ins.)	Casing		Tubing			
			RSS	RFC	RSU-6 RSU-6PR	RSU-8 RSU-8PR	RTS-6 RTS-6PR	RTS-8 RTS-8PR
7"	32.2	0.453	•					
	35.1	0.498	•					
	37.7	0.540	•					
	41	0.590	•					
	42.9	0.625	•					
	46	0.670	•					
	49.5	0.730	•					
$7^5/_8$"	24	0.300	•					
	26.4	0.328	•					
	29.7	0.375	•					
	33.7	0.430	•					
	39	0.500	•					
	42.8	0.562	•					
	45.3	0.595	•					
	47.1	0.625	•					
$7^3/_4$"	46.1	0.595	•					
$8^5/_8$"	28	0.304	•					
	29.35	0.322	•					
	32	0.352	•					
	36	0.400	•					
	40	0.450	•					
	44	0.500	•					
	49	0.557	•					
$8^3/_4$"	49.7	0.557	•					
$9^5/_8$"	36	0.352	•					
	40	0.395	•					
	43.5	0.435	•					
	47	0.472	•					
	53.5	0.545	•					
	58.4	0.595	•					
	59.4	0.609	•					
$9^3/_4$"	59.2	0.595	•					
$9^7/_8$"	62.8	0.625	•					
$10^3/_4$"	45.5	0.400	•					
	51	0.450	•					
	55.5	0.495	•					
	60.7	0.545	•					
	65.7	0.595	•					
	73.2	0.672	•					
$11^3/_4$"	42.0	0.300	•					
	47	0.375	•					
	54	0.435	•					
	60	0.489	•					
	65	0.534	•					
	79	0.656	•					
$11^7/_8$"	71.8	0.582	•					
$13^3/_8$"	61	0.430	•					
	68	0.480	•					
	72	0.514	•					
	86	0.625	•					
$13^1/_2$"	81.4	0.580	•					
$13^5/_8$"	88.2	0.625	•					

RTS-6

Premium thread for heavy tubing

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 6 pitch-modified buttress threads.
- Exceeds all API specifications.

The best connection for deep, high pressure completion and production.

- Assured high-pressure integrity.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.

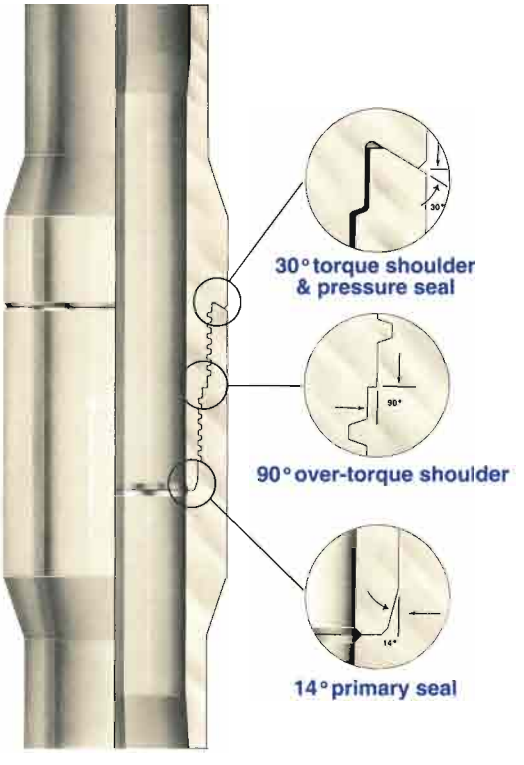
RTS-6PR

Premium thread for heavy coated tubing.

- A Teflon and fiberglass protective ring cushions the coated tubing at the connection.
- Protective ring protects internal seals in corrosive environments.
- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 6 pitch-modified buttress threads.
- Exceeds all API specifications.

The best connection for corrosive, high pressure completions and production.

- Reduced connection "Holidays".
- Assured high-pressure integrity in corrosive environments.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.



RTS-6 and RTS-6PR [J-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 75,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	J-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	J-55	93,000	10,510	10,290	9,400	93,000	9,770	84,000	N/A	N/A
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	J-55	95,000	10,760	10,580	9,700	95,000	9,580	86,000	N/A	N/A
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	J-55	118,000	13,360	13,620	12,400	118,000	9,580	107,000	N/A	N/A
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	J-55	124,000	9,550	9,240	8,400	124,000	9,810	112,000	N/A	N/A
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	J-55	137,000	10,520	10,310	9,400	137,000	9,840	123,000	N/A	N/A
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	J-55	149,000	11,470	11,380	10,400	149,000	9,800	134,000	N/A	N/A
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	J-55	168,000	12,950	13,120	12,000	168,000	9,810	151,000	N/A	N/A
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	J-55	202,000	10,520	10,310	9,400	202,000	9,750	182,000	N/A	N/A
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	J-55	249,000	12,930	13,090	12,000	249,000	9,850	224,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	J-55	209,000	8,330	7,940	7,300	209,000	9,750	188,000	N/A	N/A
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	J-55	242,000	7,620	7,210	6,600	242,000	9,760	218,000	N/A	N/A
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	J-55	302,000	9,510	9,200	8,400	302,000	9,830	272,000	N/A	N/A

RTS-6 and RTS-6PR [K-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	K-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	K-55	93,000	10,510	10,290	9,400	93,000	9,770	84,000	N/A	N/A
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	K-55	95,000	10,760	10,580	9,700	95,000	9,580	86,000	N/A	N/A
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	K-55	118,000	13,360	13,620	12,400	118,000	9,580	107,000	N/A	N/A
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	K-55	124,000	9,550	9,240	8,400	124,000	9,810	112,000	N/A	N/A
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	K-55	137,000	10,520	10,310	9,400	137,000	9,840	123,000	N/A	N/A
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	K-55	149,000	11,470	11,380	10,400	149,000	9,800	134,000	N/A	N/A
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	K-55	168,000	12,950	13,120	12,000	168,000	9,810	151,000	N/A	N/A
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	K-55	202,000	10,520	10,310	9,400	202,000	9,750	182,000	N/A	N/A
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	K-55	249,000	12,930	13,090	12,000	249,000	9,850	224,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	K-55	209,000	8,330	7,940	7,300	209,000	9,750	188,000	N/A	N/A
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	K-55	242,000	7,620	7,210	6,600	242,000	9,760	218,000	N/A	N/A
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	K-55	302,000	9,510	9,200	8,400	302,000	9,830	272,000	N/A	N/A

RTS-6 and RTS-6PR [N-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	N-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	N-80	135,000	15,280	14,970	13,700	135,000	14,180	122,000	2,200	2,750
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	N-80	139,000	15,650	15,390	14,100	139,000	14,010	125,000	2,200	2,750
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	N-80	172,000	19,430	19,810	18,100	172,000	13,960	155,000	2,200	2,750
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	N-80	180,000	13,890	13,440	12,300	180,000	14,240	162,000	3,000	3,750
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	N-80	199000	15,300	15,000	13,700	199,000	14,300	179000	3,000	3,750
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	N-80	217,000	16,680	16,560	15,100	217,000	14,280	195,000	4,500	5,620
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	N-80	245,000	18,840	19,090	17,500	245,000	14,310	220,000	4,500	5,620
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	N-80	295,000	15,310	15,000	13,700	295,000	14,240	265,000	5,500	6,870
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	N-80	362,000	18,800	19,040	17,400	362,000	14,320	326,000	5,500	6,870
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	N-80	304,000	12,110	11,550	10,600	304,000	14,180	274,000	5,500	6,870
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	N-80	353,000	11,080	10,480	9,600	353,000	14,230	317,000	6,000	7,500
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	N-80	440,000	13,830	13,380	12,200	440,000	14,320	396,000	7,500	9,370

RTS-6 and RTS-6PR [L-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	L-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	L-80	135,000	15,280	14,970	13,700	135,000	14,180	122,000	2,200	2,750
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	L-80	139,000	15,650	15,390	14,100	139,000	14,010	125,000	2,200	2,750
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	L-80	172,000	19,430	19,810	18,100	172,000	13,960	155,000	2,200	2,750
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	L-80	180,000	13,890	13,440	12,300	180,000	14,240	162,000	3,000	3,750
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	L-80	199,000	15,300	15,000	13,700	199,000	14,300	179,000	3,000	3,750
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	L-80	217,000	16,680	16,560	15,100	217,000	14,280	195,000	4,500	5,620
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	L-80	245,000	18,840	19,090	17,500	245,000	14,310	220,000	4,500	5,620
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	L-80	295,000	15,310	15,000	13,700	295,000	14,240	265,000	5,500	6,870
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	L-80	362,000	18,800	19,040	17,400	362,000	14,320	326,000	5,500	6,870
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	L-80	304,000	12,110	11,550	10,600	304,000	14,180	274,000	5,500	6,870
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	L-80	353,000	11,080	10,480	9,600	353,000	14,230	317,000	6,000	7,500
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	L-80	440,000	13,830	13,380	12,200	440,000	14,320	396,000	7,500	9,370

RTS-6 and RTS-6PR [C-90] (Minimum Yield Strength 90,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	C-90	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	C-90	152,000	17,190	16,840	15,400	152,000	15,970	137,000	N/A	N/A
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	C-90	156,000	17,610	17,310	15,800	156,000	15,730	140,000	N/A	N/A
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	C-90	194,000	21,860	22,280	20,400	194,000	15,750	174,000	N/A	N/A
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	C-90	203,000	15,620	15,120	13,800	203,000	16,060	183,000	3,000	3,750
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	C-90	224,000	17,220	16,870	15,400	224,000	16,090	201,000	N/A	N/A
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	C-90	244,000	18,770	18,630	17,000	244,000	16,050	219,000	N/A	N/A
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	C-90	275,000	21,200	21,470	19,600	275,000	16,060	248,000	N/A	N/A
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	C-90	331,000	17,220	16,880	15,400	331,000	15,970	298,000	5,500	6,870
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	C-90	407,000	21,150	21,420	19,600	407,000	16,100	366,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	C-90	342,000	13,620	12,990	11,900	342,000	15,950	308,000	N/A	N/A
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	C-90	397,000	12,220	11,800	10,800	397,000	16,010	357,000	N/A	N/A
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	C-90	495,000	15,560	15,050	13,800	495,000	16,110	445,000	N/A	N/A

RTS-6 and RTS-6PR [R-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	R-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	R-95	161,000	18,150	17,780	16,300	161,000	16,910	145,000	N/A	N/A
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	R-95	165,000	18,590	18,270	16,700	165,000	16,630	148,000	N/A	N/A
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	R-95	204000	23,080	23,520	21,500	204,000	16,560	184,000	N/A	N/A
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	R-95	214,000	16,490	15,960	14,600	214,000	16,930	193,000	3,000	3,750
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	R-95	236,000	18,170	17,810	16,300	236,000	16,950	212,000	N/A	N/A
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	R-95	257,000	19,810	19,660	18,000	257,000	16,910	232,000	N/A	N/A
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	R-95	290,000	22,370	22,670	20,700	290,000	16,940	261,000	N/A	N/A
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	R-95	350,000	18,180	17,810	16,300	350,000	16,890	315,000	5,500	6,870
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	R-95	430,000	22,330	22,610	20,700	430,000	17,010	387,000	5,500	6,870
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	R-95	361,000	14,380	13,720	12,500	361,000	16,840	325,000	N/A	N/A
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	R-95	419,000	12,760	12,450	11,400	419,000	16,900	377,000	N/A	N/A
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	R-95	522,000	16,420	15,890	14,500	522,000	16,990	470,000	7,500	9,370

RTS-6 and RTS-6PR [T-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	T-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	T-95	161,000	18,150	17,780	16,300	161,000	16,910	145,000	N/A	N/A
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	T-95	165,000	18,590	18,270	16,700	165,000	16,630	148,000	N/A	N/A
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	T-95	204,000	23,080	23,520	21,500	204,000	16,560	184,000	N/A	N/A
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	T-95	214,000	16,490	15,960	14,600	214,000	16,930	193,000	3,000	3,750
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	T-95	236,000	18,170	17,810	16,300	236,000	16,950	212,000	N/A	N/A
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	T-95	257,000	19,810	19,660	18,000	257,000	16,910	232,000	N/A	N/A
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	T-95	290,000	22,370	22,670	20,700	290,000	16,940	261,000	N/A	N/A
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	T-95	350,000	18,180	17,810	16,300	350,000	16,890	315,000	5,500	6,870
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	T-95	430,000	22,330	22,610	20,700	430,000	17,010	387,000	5,500	6,870
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	T-95	361,000	14,380	13,720	12,500	361,000	16,840	325,000	N/A	N/A
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	T-95	419,000	12,760	12,450	11,400	419,000	16,900	377,000	N/A	N/A
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	T-95	522,000	16,420	15,890	14,500	522,000	16,990	470,000	7,500	9,370

RTS-6 and RTS-6PR [P-110] (Minimum Yield Strength 110,000 psi, Minimum Ultimate Strength 125,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	P-110	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	P-110	186,000	21,010	20,590	18,800	186,000	19,540	168,000	2,700	3,370
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	P-110	191,000	21,520	21,150	19,300	191,000	19,250	172,000	2,700	3,370
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	P-110	237,000	26,720	27,230	24,900	237,000	19,240	213,000	2,700	3,370
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	P-110	248,000	19,090	18,480	16,900	248,000	19,620	223,000	3,500	4,370
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	P-110	273,000	21,040	20,620	18,900	273,000	19,610	246,000	3,500	4,370
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	P-110	298,000	22,940	22,770	20,800	298,000	19,610	268,000	5,500	6,870
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	P-110	336,000	25,910	26,250	24,000	336,000	19,630	303,000	5,500	6,870
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	P-110	405,000	21,050	20,630	18,900	405,000	19,550	364,000	7,000	8,750
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	P-110	497,000	25,850	26,180	23,900	497,000	19,660	448,000	7,000	8,750
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	P-110	419,000	16,650	15,880	14,500	419,000	19,540	377,000	7,000	8,750
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	P-110	485,000	14,340	14,420	13,200	485,000	19,560	436,000	7,500	9,370
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	P-110	605,000	19,010	18,390	16,800	605,000	19,690	544,000	9,500	11,870

RTS-6 and RTS-6PR [Q-125] (Minimum Yield Strength 125,000 psi, Minimum Ultimate Strength 135,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	Q-125	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	5.95	5.76	0.254	2.375	1.867	1.692	2.906	1.805	1.773	3.05	Q-125	212,000	23,880	23,390	21,400	212,000	22,270	190,000	2,700	3,370
2 ⅜	6.20	5.90	0.261	2.375	1.853	1.733	2.938	1.795	1.759	3.05	Q-125	217,000	24,450	24,040	22,000	217,000	21,880	195,000	N/A	N/A
2 ⅜	7.70	7.32	0.336	2.375	1.703	2.152	3.125	1.645	1.609	3.05	Q-125	269,000	30,360	30,950	28,300	269,000	21,830	242,000	N/A	N/A
2 ⅞	7.90	7.67	0.276	2.875	2.323	2.254	3.438	2.265	2.229	3.04	Q-125	282,000	21,700	21,000	19,200	282,000	22,310	254,000	3,500	4,370
2 ⅞	8.70	8.45	0.308	2.875	2.259	2.484	3.500	2.200	2.165	3.04	Q-125	310,000	23,910	23,430	21,400	310,000	22,270	279,000	3,500	4,370
2 ⅞	9.50	9.21	0.340	2.875	2.195	2.708	3.625	2.130	2.101	3.04	Q-125	338,000	26,070	25,870	23,700	338,000	22,240	305,000	N/A	N/A
2 ⅞	10.70	10.40	0.392	2.875	2.091	3.058	3.688	2.030	1.997	3.04	Q-125	382,000	29,440	29,830	27,300	382,000	22,310	344,000	N/A	N/A
3 ½	12.95	12.53	0.375	3.500	2.750	3.682	4.313	2.687	2.625	3.35	Q-125	460,000	23,920	23,440	21,400	460,000	22,200	414,000	7,000	8,750
3 ½	15.80	15.39	0.476	3.500	2.548	4.522	4.500	2.485	2.423	3.35	Q-125	565,000	29,380	29,750	27,200	565,000	22,350	509,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.625	3.275	3.215	3.32	Q-125	476,000	18,910	18,050	16,500	476,000	22,200	428,000	N/A	N/A
4 ½	15.50	15.00	0.337	4.500	3.826	4.407	5.125	3.765	3.701	3.34	Q-125	551,000	15,830	16,380	15,000	551,000	22,220	496,000	7,500	9,370
4 ½	19.20	18.71	0.430	4.500	3.640	5.498	5.313	3.560	3.515	3.34	Q-125	687,000	21,610	20,900	19,100	687,000	22,360	619,000	9,500	11,870

RTS-8

Premium thread for standard weights of production tubing

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 8 pitch-modified buttress threads.
- Exceeds all API specifications.

The best connection for high pressure production.

- Assured high-pressure integrity.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Make-up requires only half the number of rotations.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.

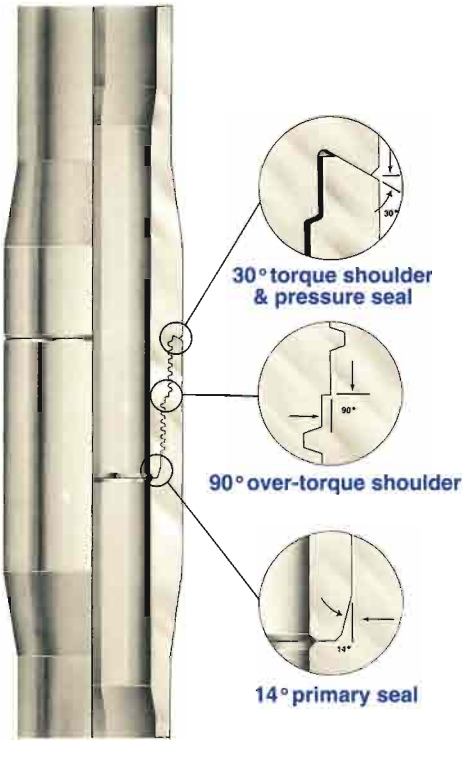
RTS-8PR

Premium thread for standard weights of coated production tubing.

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 8 pitch-modified buttress threads.
- Exceeds all API specifications.

The best connection for corrosive, high pressure production.

- Reduced connection "Holidays".
- Assured high-pressure integrity in corrosive environments.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.



RTS-8 and RTS-8PR [J-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 75,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	J-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	J-55	72,000	8,100	7,700	7,000	72,000	9,570	65,000	1,100	1,375
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	J-55	81,000	9,170	8,830	8,100	81,000	9,550	73,000	1,100	1,375
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	J-55	100,000	7,680	7,260	6,600	100,000	9,620	90,000	1,500	1,870
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	J-55	142,000	7,400	6,990	6,400	142,000	9,540	128,000	2,500	3,125
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	J-55	160,000	8,330	7,950	7,300	160,000	9,710	144,000	2,500	3,125
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	J-55	169,000	6,590	6,300	5,800	169,000	9,600	152,000	3,000	3,750
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	J-55	198,000	5,730	5,800	5,300	198,000	9,710	178,000	3,500	4,370
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	J-55	211,000	6,420	6,200	5,700	211,000	9,770	190,000	3,500	4,370

RTS-8 and RTS-8PR [K-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	K-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	K-55	72,000	8,100	7,700	7,000	72,000	9,570	65,000	1,100	1,375
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	K-55	81,000	9,170	8,830	8,100	81,000	9,550	73,000	1,100	1,375
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	K-55	100,000	7,680	7,260	6,600	100,000	9,620	90,000	1,500	1,870
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	K-55	142,000	7,400	6,990	6,400	142,000	9,540	128,000	2,500	3,125
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	K-55	160,000	8,330	7,950	7,300	160,000	9,710	144,000	2,500	3,125
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	K-55	169,000	6,590	6,300	5,800	169,000	9,600	152,000	3,000	3,750
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	K-55	198,000	5,730	5,800	5,300	198,000	9,710	178,000	3,500	4,370
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	K-55	211,000	6,420	6,200	5,700	211,000	9,770	190,000	3,500	4,370

RTS-8 and RTS-8PR [N-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	N-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	N-80	104,000	11,780	11,200	10,200	104,000	13,830	94,000	1,500	1,870
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	N-80	118,000	13,340	12,850	11,700	118,000	13,920	106,000	1,500	1,870
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	N80	145,000	11,170	10,570	9,700	145,000	13,940	130,000	2,100	2,620
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	N-80	207,000	10,540	10,160	9,300	207,000	13,910	186,000	3,000	3,750
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	N-80	233,000	12,120	11,560	10,600	233,000	14,140	210,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	N-80	246,000	8,800	9,170	8,400	246,000	13,980	222,000	3,500	4,370
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	N-80	288,000	7,500	8,430	7,700	288,000	14,120	259,000	4,500	5,620
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	N-80	307,000	8,540	9,020	8,200	307,000	14,210	276,000	4,500	5,620

RTS-8 and RTS-8PR [L-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	L-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	L-80	104,000	11,780	11,200	10,200	104,000	13,830	94,000	1,500	1,870
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	L-80	118,000	13,340	12,850	11,700	118,000	13,920	106,000	1,500	1,870
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	L-80	145,000	11,170	10,570	9,700	145,000	13,940	130,000	2,100	2,620
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	L-80	207,000	10,540	10,160	9,300	207,000	13,910	186,000	3,000	3,750
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	L-80	233,000	12,120	11,560	10,600	233,000	14,140	210,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	L-80	246,000	8,800	9,170	8,400	246,000	13,980	222,000	3,500	4,370
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	L80	288,000	7,500	8,430	7,700	288,000	14,120	259,000	4,500	5,620
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	L80	307,000	8,540	9,020	8,200	307,000	14,210	276,000	4,500	5,620

RTS-8 and RTS-8PR [C-90] (Minimum Yield Strength 90,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	C-90	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	C-90	117,000	13,250	12,600	11,500	117,000	15,560	106,000	N/A	N/A
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	C-90	133,000	15,010	14,460	13,200	133,000	15,680	120,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	C-90	163,000	12,390	11,890	10,900	163,000	15,670	147,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	C-90	233,000	11,570	11,430	10,500	233,000	15,660	210,000	N/A	N/A
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	C-90	262,000	13,640	13,000	11,900	262,000	15,900	236,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	C-90	277,000	9,600	10,320	9,400	277,000	15,740	249,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	C-90	324,000	8,120	9,490	8,700	324,000	15,880	292,000	N/A	N/A
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	C-90	345,000	9,300	10,150	9,300	345,000	15,970	311,000	N/A	N/A

RTS-8 and RTS-8PR [R-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	R-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	R-95	124,000	13,980	13,300	12,200	124,000	16,490	112,000	N/A	N/A
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	R-95	140,000	15,840	15,260	14,000	140,000	16,510	126,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	R-95	172,000	12,940	12,550	11,500	172,000	16,540	155,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	R-95	246,000	12,080	12,070	11,000	246,000	16,530	221,000	3,000	3,750
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	R-95	277,000	14,390	13,730	12,600	277,000	16,810	249,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	R-95	292,000	9,980	10,890	10,000	292,000	16,590	263,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	R-95	342,000	8,410	10,010	9,200	342,000	16,760	308,000	N/A	N/A
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	R-95	364,000	9,660	10,710	9,800	364,000	16,850	328,000	N/A	N/A

RTS-8 and RTS-8PR [T-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	T-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	T-95	124,000	13,980	13,300	12,200	124,000	16,490	112,000	N/A	N/A
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	T-95	140,000	15,840	15,260	14,000	140,000	16,510	126,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	T-95	172,000	12,940	12,550	11,500	172,000	16,540	155,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	T-95	246,000	12,080	12,070	11,000	246,000	16,530	221,000	3,000	3,750
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	T-95	277,000	14,390	13,730	12,600	277,000	16,810	249,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	T-95	292,000	9,980	10,890	10,000	292,000	16,590	263,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	T-95	342,000	8,410	10,010	9,200	342,000	16,760	308,000	N/A	N/A
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	T-95	364,000	9,660	10,710	9,800	364,000	16,850	328,000	N/A	N/A

RTS-8 and RTS-8PR [P-110] (Minimum Yield Strength 110,000 psi, Minimum Ultimate Strength 125,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	P-110	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	P-110	143,000	16,130	15,400	14,100	143,000	19,020	129,000	1,500	1,870
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	P-110	162,000	18,340	17,670	16,200	162,000	19,100	146,000	1,500	1,870
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	P-110	199,000	14,550	14,530	13,300	199,000	19,130	179,000	2,100	2,620
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	P-110	285,000	13,530	13,970	12,800	285,000	19,150	256,000	3,000	3,750
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	P-110	321,000	16,670	15,890	14,500	321,000	19,480	289,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	P-110	338,000	11,060	12,610	11,500	338,000	19,200	305,000	3,500	4,370
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	P-110	396,000	9,210	11,590	10,600	396,000	19,410	356,000	4,500	5,620
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	P-110	422,000	10,690	12,410	11,300	422,000	19,540	380,000	4,500	5,620

RTS-8 and RTS-8PR [Q-125] (Minimum Yield Strength 125,000 psi, Minimum Ultimate Strength 135,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	Q-125	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.31	Q-125	163,000	17,900	17,500	16,000	163,000	21,680	147,000	N/A	N/A
2 ⅜	5.30	5.03	0.218	2.375	1.939	1.477	2.750	1.890	1.845	2.31	Q-125	185,000	20,840	20,080	18,400	185,000	21,820	166,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.210	2.371	2.347	2.39	Q-125	227,000	16,070	16,510	15,100	227,000	21,830	204,000	2,100	2,620
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.915	2.920	2.867	2.84	Q-125	324,000	14,890	15,880	14,500	324,000	21,770	291,000	N/A	N/A
3 ½	10.30	9.92	0.289	3.500	2.922	2.915	3.915	2.870	2.797	2.84	Q-125	364,000	18,940	18,060	16,500	364,000	22,090	328,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.417	3.395	3.351	2.84	Q-125	385,000	12,030	14,330	13,100	385,000	21,880	346,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.920	3.870	3.833	2.89	Q-125	450,000	9,890	13,170	12,000	450,000	22,060	405,000	N/A	N/A
4 ½	13.50	13.05	0.290	4.500	3.920	3.836	4.955	3.840	3.795	2.89	Q-125	479,000	11,600	14,100	12,900	479,000	22,180	432,000	N/A	N/A

RSU-8

Premium thread for standard weights of upset casing-sized tubing.

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 8 pitch-modified buttress threads.
- Exceeds all API specifications.

The best economical, large O.D. connection for high pressure production.

- Assured high-pressure integrity.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Make-up requires only half the number of rotations.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.

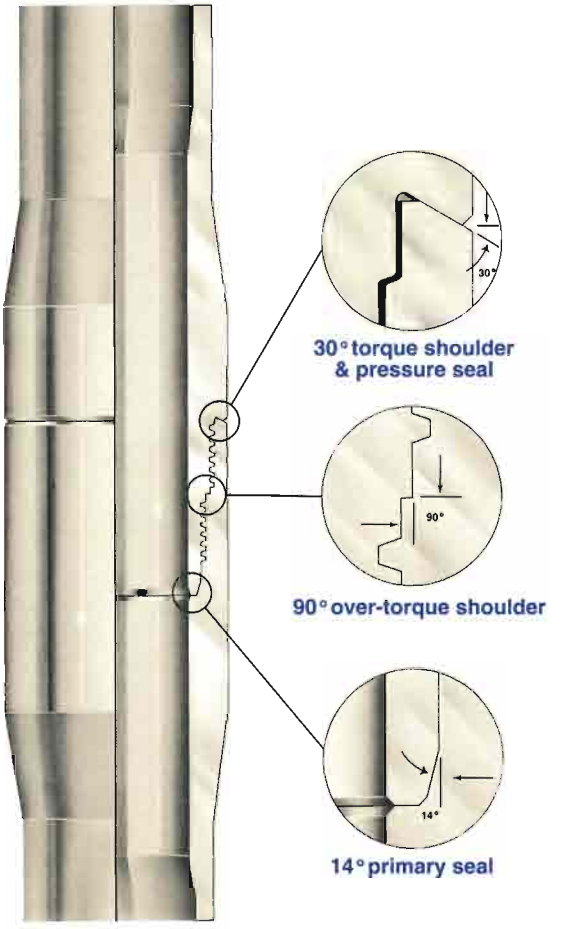
RSU-8PR

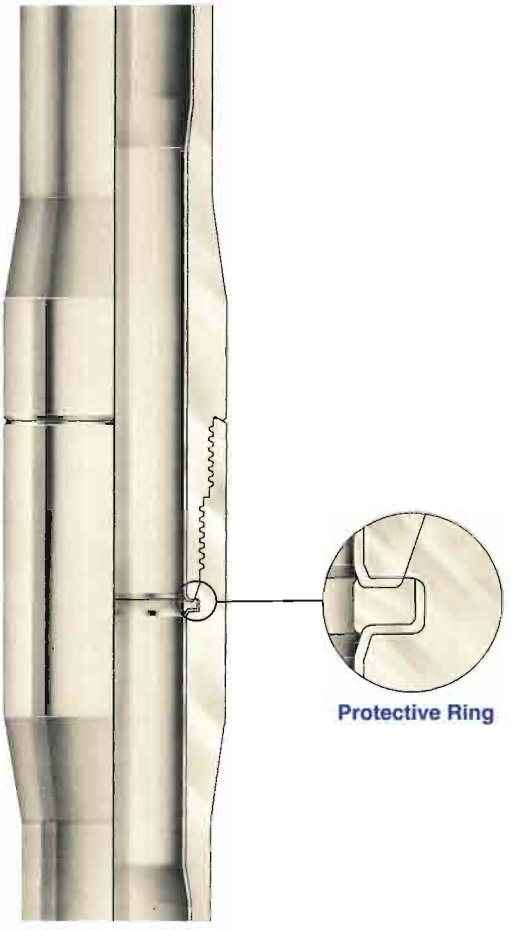
Premium thread for standard weights of upset casing-sized, coated tubing.

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 8 pitch-modified buttress threads.
- Exceeds all API specifications.

The best economical large O.D. connection for corrosive, high pressure production.

- Reduced connection "Holidays".
- Assured high-pressure integrity in corrosive environments.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.





RSU-8 and RSU-8PR [J-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 75,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	J-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	J-55	72,000	8,100	7,700	7,000	67,000	8,910	25,000	1,100	1,375
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	J-55	100,000	7,680	7,260	6,600	87,000	8,370	39,000	1,500	1,870
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	J-55	142,000	7,400	6,990	6,400	132,000	8,870	40,000	2,500	3,125
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	J-55	169,000	6,590	6,300	5,800	154,000	8,750	84,000	3,000	3,750
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	J-55	198,000	5,730	5,800	5,300	178,000	8,730	51,000	3,500	4,370

RSU-8 and RSU-8PR [K-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	K-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	K-55	72,000	8,100	7,700	7,000	67,000	8,910	25,000	1,100	1,375
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	K-55	100,000	7,680	7,260	6,600	87,000	8,370	39,000	1,500	1,870
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	K-55	142,000	7,400	6,990	6,400	132,000	8,870	40,000	2,500	3,125
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	K-55	169,000	6,590	6,300	5,800	154,000	8,750	84,000	3,000	3,750
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	K-55	198,000	5,730	5,800	5,300	178,000	8,730	51,000	3,500	4,370

RSU-8 and RSU-8PR [N-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	N-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	N-80	104,000	11,780	11,200	10,200	98,000	13,030	36,000	1,500	1,870
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	N-80	145,000	11,170	10,570	9,700	127,000	12,210	57,000	2,100	2,620
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	N-80	207,000	10,540	10,160	9,300	192,000	12,900	58,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	N-80	246,000	8,800	9,170	8,400	225,000	12,780	122,000	3,500	4,370
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	N-80	288,000	7,500	8,430	7,700	259,000	12,700	74,000	4,500	5,620

RSU-8 and RSU-8PR [L-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	L-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	L-80	104,000	11,780	11,200	10,200	98,000	13,030	36,000	1,500	1,870
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	L-80	145,000	11,170	10,570	9,700	127,000	12,210	57,000	2,100	2,620
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	L-80	207,000	10,540	10,160	9,300	192,000	12,900	58,000	3,000	3,750
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	L-80	246,000	8,800	9,170	8,400	225,000	12,780	122,000	3,500	4,370
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	L-80	288,000	7,500	8,430	7,700	259,000	12,700	74,000	4,500	5,620

RSU-8 and RSU-8PR [C-90] (Minimum Yield Strength 90,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	C-90	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	C-90	117,000	13,250	12,600	11,500	110,000	14,630	41,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	C-90	163,000	12,390	11,890	10,900	143,000	13,750	64,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	C-90	233,000	11,570	11,430	10,500	216,000	14,520	65,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	C-90	277,000	9,600	10,320	9,400	253,000	14,380	137,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	C-90	324,000	8,120	9,490	8,700	291,000	14,260	84,000	N/A	N/A

RSU-8 and RSU-8PR [R-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	R-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	R-95	124,000	13,980	13,300	12,200	116,000	15,430	43,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	R-95	172,000	12,940	12,550	11,500	150,000	14,420	68,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	R-95	246,000	12,080	12,070	11,000	228,000	15,320	69,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	R-95	292,000	9,980	10,890	10,000	267,000	15,170	145,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	R-95	342,000	8,410	10,010	9,200	307,000	15,050	88,000	N/A	N/A

RSU-8 and RSU-8PR [T-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	T-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	T-95	124,000	13,980	13,300	12,200	1,16,000	15,430	43,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	T-95	172,000	12,940	12,550	11,500	150,000	14,420	68,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	T-95	246,000	12,080	12,070	11,000	228,000	15,320	69,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	T-95	292,000	9,980	10,890	10,000	267,000	15,170	145,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	T-95	342,000	8,410	10,010	9,200	307,000	15,050	88,000	N/A	N/A

RSU-8 and RSU-8PR [P-110] (Minimum Yield Strength 110,000 psi, Minimum Ultimate Strength 125,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	P-110	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	P-110	143,000	16,130	15,400	14,100	135,000	17,950	50,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	P-110	199,000	14,550	14,530	13,300	174,000	16,730	79,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	P-110	285,000	13,530	13,970	12,800	264,000	17,740	79,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	P-110	338,000	11,060	12,610	11,500	309,000	17,560	168,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	P-110	396,000	9,210	11,590	10,600	356,000	17,450	102,000	N/A	N/A

RSU-8 and RSU-8PR [Q-125] (Minimum Yield Strength 125,000 psi, Minimum Ultimate Strength 135,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.6)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	Q-125	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
2 ⅜	4.70	4.44	0.190	2.375	1.995	1.304	2.700	1.945	1.901	2.33	Q-125	163,000	17,900	17,500	16,000	153,000	20,350	56,000	N/A	N/A
2 ⅞	6.50	6.17	0.217	2.875	2.441	1.812	3.220	2.375	2.347	2.39	Q-125	227,000	16,070	16,510	15,100	198,000	19,040	89,000	N/A	N/A
3 ½	9.30	8.81	0.254	3.500	2.992	2.590	3.902	2.920	2.867	2.84	Q-125	324,000	14,890	15,880	14,500	301,000	20,230	90,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.450	3.395	3.351	2.84	Q-125	385,000	12,030	14,330	13,100	351,000	19,940	190,000	N/A	N/A
4 ½	12.75	12.25	0.271	4.500	3.958	3.600	4.910	3.865	3.833	2.89	Q-125	450,000	9,890	13,170	12,000	404,000	19,800	116,000	N/A	N/A

RSU-6

Premium thread for heavy weights of casing sized tubing.

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 6 pitch-modified buttress threads.
- Exceeds all API specifications.

The best large O.D. connection for deep, high pressure production.

- Assured high-pressure integrity.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.

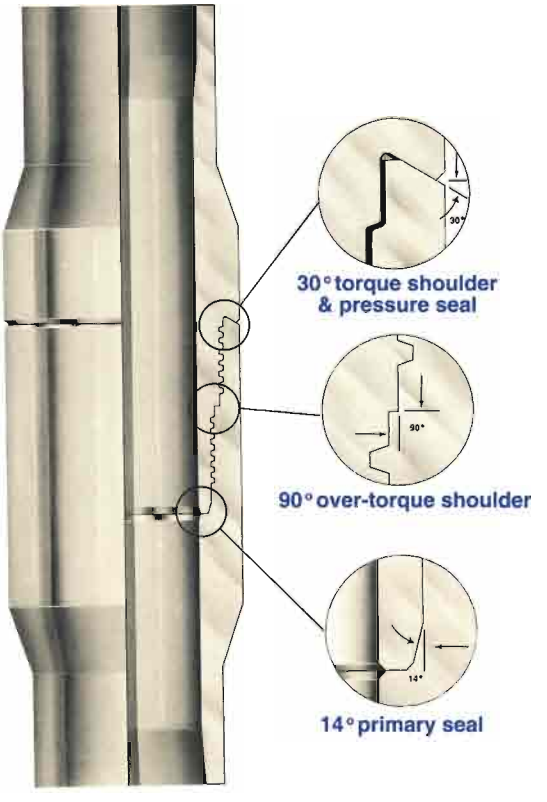
RSU-6PR

Premium thread for heavy, casing-sized, coated tubing.

- A Teflon and fiberglass protective ring cushions the coated tubing at the connection.
- Protective ring protects internal seals in corrosive environments.
- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, non-tapered connection.
- 6 pitch-modified buttress threads.
- Exceeds all API specifications.

The best large O.D. tubing connection for corrosive, high pressure production.

- Reduced connection "Holidays".
- Assured high-pressure integrity in corrosive environments.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.



RSU-6 and RSU-6PR [J-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 75,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	J-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	J-55	241,000	5,560	5,700	5,200	226,000	10,760	62,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	J-55	290,000	7,390	6,970	6,400	275,000	10,910	62,000	N/A	N/A
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	J-55	273,000	4,910	5,320	4,900	256,000	10,760	68,000	N/A	N/A
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	J-55	321,000	6,620	6,320	5,800	303,000	10,820	68,000	N/A	N/A
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	J-55	365,000	7,670	7,260	6,600	347,000	10,780	68,000	N/A	N/A

RSU-6 and RSU-6PR [K-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	K-55	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	K-55	241,000	5,560	5,700	5,200	226,000	10,760	62,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	K-55	290,000	7,390	6,970	6,400	275,000	10,910	62,000	N/A	N/A
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	K-55	273,000	4,910	5,320	4,900	256,000	10,760	68,000	N/A	N/A
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	K-55	321,000	6,620	6,320	5,800	303,000	10,820	68,000	N/A	N/A
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	K-55	365,000	7,670	7,260	6,600	347,000	10,780	68,000	N/A	N/A

RSU-6 and RSU-6PR [N-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	N-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.110	N-80	350,000	7,250	8,290	7,600	329,000	15,670	90,000	5400	6750
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.110	N-80	422,000	10,490	10,140	9,300	400,000	15,870	90,000	5800	7250
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.490	N-80	397,000	6,290	7,740	7,100	373,000	15,670	99,000	6600	8250
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.490	N-80	466,000	8,830	9,190	8,400	441,000	15,750	99,000	7000	8750
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.490	N-80	530,000	11,160	10,560	9,700	504,000	15,650	99,000	7400	9250

RSU-6 and RSU-6PR [L-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	L-80	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	L-80	350,000	7,250	8,290	7,600	329,000	15,670	90,000	5,400	6,750
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	L-80	422,000	10,490	10,140	9,300	400,000	15,870	90,000	5,800	7,250
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	L-80	397,000	6,290	7,740	7,100	373,000	15,670	99,000	6,600	8,250
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	L-80	466,000	8,830	9,190	8,400	441,000	15,750	99,000	7,000	8,750
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	L-80	530,000	11,160	10,560	9,700	504,000	15,650	99,000	7,400	9,250

RSU-6 and RSU-6PR [C-90] (Minimum Yield Strength 90,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	C-90	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	C-90	394,000	7,830	9,320	8,500	370,000	17,620	102,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	C-90	475,000	11,520	11,400	10,400	449,000	17,820	102,000	N/A	N/A
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	C-90	447,000	6,740	8,710	8,000	419,000	17,610	112,000	N/A	N/A
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	C-90	525000	9,630	10,340	9,500	496,000	17,710	112,000	N/A	N/A
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	C-90	597,000	12,380	11,880	10,900	567,000	17,610	112,000	N/A	N/A

RSU-6 and RSU-6PR [R-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	R-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	R-95	416,000	8,110	9,840	9,000	390,000	18,570	107,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	R-95	501,000	12,030	12,040	11,000	474,000	18,810	107,000	N/A	N/A
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	R-95	471,000	6,940	9,190	8,400	442,000	18,570	118,000	N/A	N/A
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	R-95	554,000	10,020	10,910	10,000	524,000	18,710	118,000	N/A	N/A
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	R-95	630,000	12,930	12,540	11,500	599,000	18,600	118,000	N/A	N/A

RSU-6 and RSU-6PR [T-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	T-95	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	T-95	416,000	8,110	9,840	9,000	390,000	18,570	107,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	T-95	501,000	12,030	12,040	11,000	474,000	18,810	107,000	N/A	N/A
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	T-95	471,000	6,940	9,190	8,400	442,000	18,570	118,000	N/A	N/A
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	T-95	554,000	10,020	10,910	10,000	524,000	18,710	118,000	N/A	N/A
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	T-95	630,000	12,930	12,540	11,500	599,000	18,600	118,000	N/A	N/A

RSU-6 and RSU-6PR [P-110] (Minimum Yield Strength 110,000 psi, Minimum Ultimate Strength 125,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	P-110	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	P-110	481,000	8,850	11,400	10,400	452,000	21,520	124,000	7,200	9,000
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	P-110	580,000	13,470	13,940	12,700	549,000	21,790	124,000	7,600	9,500
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	P-110	546,000	7,480	10,640	9,700	512,000	21,510	136,000	8,800	11,000
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	P-110	641,000	11,100	12,640	11,600	606,000	21,640	137,000	9,200	11,500
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	P-110	729,000	14,540	14,530	13,300	693,000	21,520	136,000	9,600	12,000

RSU-6 and RSU-6PR [Q-125] (Minimum Yield Strength 125,000 psi, Minimum Ultimate Strength 135,000 psi)

Size	Pipe Dimensions										Grade	Performance Properties							Recommended Torque Values	
	Pipe						Connection					Pipe Body				Connection				
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	in	Q-125	lbs	psi	psi	psi	lbs	ft	lbs	ft-lbs	ft-lbs
5	15.00	14.88	0.296	5.000	4.408	4.374	5.370	4.328	4.283	3.11	Q-125	547,000	9,480	12,950	11,800	513,000	24,430	141,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.455	4.196	4.151	3.11	Q-125	659,000	14,820	15,840	14,500	624,000	24,760	141,000	N/A	N/A
5 ½	17.00	16.89	0.304	5.500	4.892	4.962	5.900	4.812	4.767	3.49	Q-125	620,000	7,890	12,090	11,100	582000	24,450	155,000	N/A	N/A
5 ½	20.00	19.83	0.361	5.500	4.778	5.828	6.000	4.698	4.653	3.49	Q-125	729,000	12,080	14,360	13,100	689,000	24,610	155,000	N/A	N/A
5 ½	23.00	22.56	0.415	5.500	4.670	6.630	6.035	4.590	4.545	3.49	Q-125	829,000	16,060	16,510	15,100	788,000	24,470	155,000	N/A	N/A

RFC

Premium thread for small O.D. casing or non-upset tubing.

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, flush connection.
- 8 pitch-modified buttress threads for the sizes 2-3/8" to 4-1/2".
- 6 pitch-modified buttress threads for the sizes 5" to 5-1/2".
- Exceeds all API specifications.

The best connection for maximum clearance in high pressure production casing.

- Swaged and stress relieved plain end tubulars provide maximum clearance.
- Assured high-pressure integrity.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.

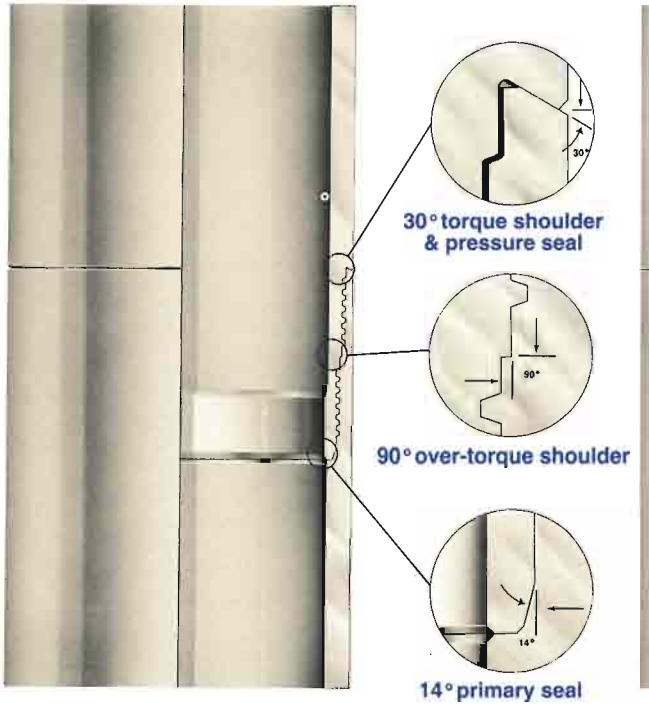
RFC- PR

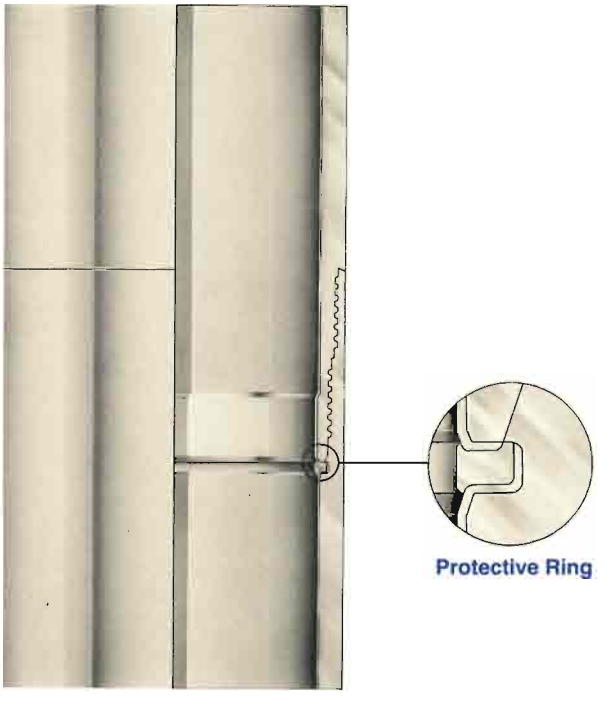
Premium thread for small O.D. coated casing or non-upset tubing.

- Multiple metal-to-metal seals:
  -14° internal self-energizing primary seal
  -30° torque shoulder and pressure seal
  -90° over-torque shoulder between outer seals
- Two-step, flush connection.
- 8 pitch-modified buttress threads for the sizes 2-3/8" to 4-1/2".
- 6 pitch-modified buttress threads for the sizes 5" to 5-1/2".
- Exceeds all API specifications.

The best connection for maximum clearance in corrosive, high pressure production casing.

- Swaged and stress relieved plain end tubulars provide maximum clearance.
- Reduced connection "Holidays".
- Assured high-pressure integrity in corrosive environments.
- Low stress connection for gas and H_2S service.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.
- High torque with reduced turbulence.
- Low hoop stress with high compressive strength.





RFC [J-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 75,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	J-55	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	J-55	72,000	8,100	7,700	7,000	34,000	46,000	5,470	22,000	400	500
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	J-55	100,000	7,680	7,260	6,600	49,000	67,000	5,680	26,000	600	750
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	J-55	142,000	7,400	6,990	6,400	73,000	100,000	5,920	39,000	800	1,000
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	J-55	160,000	8,330	7,950	7,300	85,000	116,000	6,120	44,000	800	1,000
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	J-55	199,000	10,350	10,120	9,300	114,000	155,000	6,610	54,000	800	1,000
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	J-55	202,000	10,520	10,310	9,400	114,000	155,000	6,500	54,000	800	1,000
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	J-55	237,000	12,300	12,350	11,300	114,000	155,000	5,560	54,000	800	1,000
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	J-55	169,000	6,590	6,300	5,800	91,000	124,000	6,210	50,000	1,100	1,300
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	J-55	184,000	7,300	6,880	6,300	99,000	135,000	6,230	50,000	1,100	1,300
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	J-55	209,000	8,330	7,940	7,300	110,000	150,000	6,070	56,000	1,100	1,300
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	J-55	198,000	5,730	5,800	5,300	104,000	142,000	6,060	54,000	1,500	1,800
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	J-55	211,000	6,420	6,200	5,700	104,000	142,000	5,690	54,000	1,500	1,800
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	J-55	242,000	7,620	7,210	6,600	128,000	174,000	6,100	74,000	1,500	1,800
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	J-55	302,000	9,510	9,200	8,400	128,000	174,000	4,890	74,000	1,500	1,800
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	J-55	241,000	5,560	5,700	5,200	121,000	165,000	5,810	65,000	1,900	2,300
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	J-55	290,000	7,390	6,970	6,400	154,000	210,000	6,130	82,000	1,900	2,300
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	J-55	324,000	8,240	7,850	7,200	154,000	210,000	5,490	82,000	1,900	2,300
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	J-55	334,000	8,500	8,120	7,400	154,000	210,000	5,330	82,000	1,900	2,300
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	J-55	373,000	9,510	9,200	8,400	154,000	210,000	4,760	82,000	1,900	2,300
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	J-55	389,000	9,900	9,630	8,800	154,000	210,000	4,570	82,000	1,900	2,300
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	J-55	273,000	4,910	5,320	4,900	139,000	189,000	5,880	73,000	2,300	2,800
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	J-55	321,000	6,620	6,320	5,800	171,000	233,000	6,160	88,000	2,300	2,800
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	J-55	365,000	7,670	7,260	6,600	171,000	233,000	5,410	88,000	2,300	2,800
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	J-55	413,000	8,700	8,330	7,600	171,000	233,000	4,780	88,000	2,300	2,800

Note: [Indicates interchangeability

RFC [K-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	K-55	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	K-55	72,000	8,100	7,700	7,000	34,000	58,000	5,470	22,000	400	500
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	K-55	100,000	7,680	7,260	6,600	49,000	85,000	5,680	26,000	600	750
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	K-55	142,000	7,400	6,990	6,400	73,000	126,000	5,920	39,000	800	1,000
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	K-55	160,000	8,330	7,950	7,300	85,000	147,000	6,120	44,000	800	1,000
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	K-55	199,000	10,350	10,120	9,300	114,000	196,000	6,610	54,000	800	1,000
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	K-55	202,000	10,520	10,310	9,400	114,000	196,000	6,500	54,000	800	1,000
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	K-55	237,000	12,300	12,350	11,300	114,000	196,000	5,560	54,000	800	1,000
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	K-55	169,000	6,590	6,300	5,800	91,000	157,000	6,210	50,000	1,100	1,300
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	K-55	184,000	7,300	6,880	6,300	99,000	171,000	6,230	50,000	1,100	1,300
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	K-55	209,000	8,330	7,940	7,300	110,000	190,000	6,070	56,000	1,100	1,300
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	K-55	198,000	5,730	5,800	5,300	104,000	180,000	6,060	54,000	1,500	1,800
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	K-55	211,000	6,420	6,200	5,700	104,000	180,000	5,690	54,000	1,500	1,800
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	K-55	242,000	7,620	7,210	6,600	128,000	220,000	6,100	74,000	1,500	1,800
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	K-55	302,000	9,510	9,200	8,400	128,000	220,000	4,890	74,000	1,500	1,800
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	K-55	241,000	5,560	5,700	5,200	121,000	209,000	5,810	65,000	1,900	2,300
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	K-55	290,000	7,390	6,970	6,400	154,000	267,000	6,130	82,000	1,900	2,300
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	K-55	324,000	8,240	7,850	7,200	154,000	267,000	5,490	82,000	1,900	2,300
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	K-55	334,000	8,500	8,120	7,400	154,000	267,000	5,330	82,000	1,900	2,300
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	K-55	373,000	9,510	9,200	8,400	154,000	267,000	4,760	82,000	1,900	2,300
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	K-55	389,000	9,900	9,630	8,800	154,000	267,000	4,570	82,000	1,900	2,300
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	K-55	273,000	4,910	5,320	4,900	139,000	239,000	5,880	73,000	2,300	2,800
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	K-55	321,000	6,620	6,320	5,800	171,000	296,000	6,160	88,000	2,300	2,800
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	K-55	365,000	7,670	7,260	6,600	171,000	296,000	5,410	88,000	2,300	2,800
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	K-55	413,000	8,700	8,330	7,600	171,000	296,000	4,780	88,000	2,300	2,800

Note: [Indicates interchangeability

RFC [N-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	N-80	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	N-80	104,000	11,780	11,200	10,200	49,000	61,000	7,890	32,000	400	500
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	N-80	145,000	11,170	10,570	9,700	71,000	89,000	8,230	38,000	600	750
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	N-80	207,000	10,540	10,160	9,300	106,000	133,000	8,590	57,000	800	1,000
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	N-80	233,000	12,120	11,560	10,600	124,000	155,000	8,930	65,000	800	1,000
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	N-80	290,000	15,050	14,720	13,500	165,000	206,000	9,570	79,000	800	1,000
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	N-80	295,000	15,310	15,000	13,700	165,000	206,000	9,410	78,000	800	1,000
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	N-80	344,000	17,890	17,960	16,400	165000	206,000	8,050	78,000	800	1,000
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	N-80	246,000	8,800	9,170	8,400	132,000	165,000	9,010	73,000	1,100	1,300
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	N-80	267,000	10,270	10,010	9,200	144,000	180,000	9,060	73,000	1,100	1,300
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	N-80	304,000	12,110	11,550	10,600	160,000	200,000	8,830	82,000	1,100	1,300
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	N-80	288,000	7,500	8,430	7,700	151,000	189,000	8,800	79,000	1,500	1,800
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	N-80	307,000	8,540	9,020	8,200	151,000	189,000	8,260	79,000	1,500	1,800
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	N-80	353,000	11,080	10,480	9,600	186,000	232,000	8,860	107,000	1,500	1,800
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	N-80	440,000	13,830	13,380	12,200	186,000	232,000	7,100	107,000	1,500	1,800
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	N-80	350,000	7,250	8,290	7,600	176,000	220,000	8,450	94,000	1,900	2,300
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	N-80	422,000	10,490	10,140	9,300	224,000	281,000	8,910	119,000	1,900	2,300
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	N-80	471,000	11,990	11,420	10,400	224,000	281,000	7,990	102,000	1,900	2,300
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	N-80	486,000	12,360	11,820	10,800	224,000	281,000	7,750	119,000	1,900	2,300
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	N-80	543,000	13,830	13,380	12,200	224,000	281,000	6,920	120,000	1,900	2,300
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	N-80	565,000	14,400	14,000	12,800	224,000	281,000	6,650	119,000	1,900	2,300
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	N-80	397,000	6,290	7,740	7,100	202,000	252,000	8,540	106,000	2,300	2,800
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	N-80	466,000	8,830	9,190	8,400	249,000	311,000	8,970	128,000	2,300	2,800
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	N-80	530,000	11,160	10,560	9,700	249,000	311,000	7,880	128,000	2,300	2,800
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	N-80	601,000	12,650	12,120	11,100	249,000	311,000	6,960	127,000	2,300	2,800

Note: [Indicates interchangeability

RFC [L-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	L-80	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	L-80	104,000	11,780	11,200	10,200	49,000	58,000	7,890	32,000	400	500
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	L-80	145,000	11,170	10,570	9,700	71,000	85,000	8,230	38,000	600	750
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	L-80	207,000	10,540	10,160	9,300	106,000	126,000	8,590	57,000	800	1,000
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	L-80	233,000	12,120	11,560	10,600	124,000	147,000	8,930	65,000	800	1,000
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	L-80	290,000	15,050	14,720	13,500	165,000	196,000	9,570	79,000	800	1,000
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	L-80	295,000	15,310	15,000	13,700	165,000	196,000	9,410	78,000	800	1,000
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	L-80	344,000	17,890	17,960	16,400	165,000	196,000	8,050	78,000	800	1,000
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	L-80	246,000	8,800	9,170	8,400	132,000	157,000	9,010	73,000	1,100	1,300
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	L-80	267,000	10,270	10,010	9,200	144,000	171,000	9,060	73,000	1,100	1,300
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	L-80	304,000	12,110	11,550	10,600	160,000	190,000	8,830	82,000	1,100	1,300
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	L-80	288,000	7,500	8,430	7,700	151,000	180,000	8,800	79,000	1,500	1,800
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	L-80	307,000	8,540	9,020	8,200	151,000	180,000	8,260	79,000	1,500	1,800
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	L-80	353,000	11,080	10,480	9,600	186,000	220,000	8,860	107,000	1,500	1,800
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	L-80	440,000	13,830	13,380	12,200	186,000	220,000	7,100	107,000	1,500	1,800
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	L-80	350,000	7,250	8,290	7,600	176,000	209,000	8,450	94,000	1,900	2,300
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	L-80	422,000	10,490	10,140	9,300	224,000	267,000	8,910	119,000	1,900	2,300
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	L-80	471,000	11,990	11,420	10,400	224,000	267,000	7,990	120,000	1,900	2,300
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	L-80	486,000	12,360	11,820	10,800	224,000	267,000	7,750	119,000	1,900	2,300
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	L-80	543,000	13,830	13,380	12,200	224,000	267,000	6,920	120,000	1,900	2,300
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	L-80	565,000	14,400	14,000	12,800	224,000	267,000	6,650	119,000	1,900	2,300
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	L-80	397,000	6,290	7,740	7,100	202,000	239,000	8,540	106,000	2,300	2,800
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	L-80	466,000	8,830	9,190	8,400	249,000	296,000	8,970	128,000	2,300	2,800
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	L-80	530,000	11,160	10,560	9,700	249,000	296,000	7,880	128,000	2,300	2,800
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	L-80	601,000	12,650	12,120	11,100	249,000	296,000	6,960	127,000	2,300	2,800

Note: [Indicates interchangeability

RFC [C-90] (Minimum Yield Strength 90,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	C-90	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	C-90	117,000	13,250	12,600	11,500	55,000	61,000	8,850	36,000	N/A	N/A
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	C-90	163,000	12,390	11,890	10,900	80,000	89,000	9,270	43,000	N/A	N/A
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	C-90	233,000	11,570	11,430	10,500	120,000	133,000	9,730	64,000	N/A	N/A
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	C-90	262,000	13,640	13,000	11,900	139,000	155,000	10,010	73,000	N/A	N/A
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	C-90	326,000	16,940	16,560	15,100	186,000	206,000	10,780	88,000	N/A	N/A
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	C-90	331,000	17,220	16,880	15,400	186,000	206,000	10,610	88,000	N/A	N/A
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	C-90	387,000	20,130	20,210	18,500	186,000	206,000	9,070	88,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	C-90	277,000	9,600	10,320	9,400	148,000	165,000	10,100	82,000	N/A	N/A
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	C-90	300,000	11,270	11,260	10,300	162,000	180,000	10,190	82,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	C-90	342,000	13,620	12,990	11,900	180,000	200,000	9,930	92,000	N/A	N/A
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	C-90	324,000	8,120	9,490	8,700	170,000	189,000	9,910	89,000	N/A	N/A
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	C-90	345,000	9,300	10,150	9,300	170,000	189,000	9,300	89,000	N/A	N/A
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	C-90	397,000	12,220	11,800	10,800	209,000	232,000	9,950	121,000	N/A	N/A
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	C-90	495,000	15,560	15,050	13,800	209,000	232,000	7,980	121,000	N/A	N/A
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	C-90	394,000	7,830	9,320	8,500	198,000	220,000	9,500	106,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	C-90	475,000	11,520	11,400	10,400	253,000	281,000	10,070	134,000	N/A	N/A
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	C-90	530,000	13,490	12,850	11,800	253,000	281,000	9,020	135,000	N/A	N/A
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	C-90	546,000	13,910	13,290	12,200	253,000	281,000	8,750	134,000	N/A	N/A
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	C-90	611,000	15,560	15,060	13,800	253,000	281,000	7,820	134,000	N/A	N/A
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	C-90	636,000	16,200	15,750	14,400	253,000	281,000	7,510	134,000	N/A	N/A
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	C-90	447,000	6,740	8,710	8,000	227,000	252,000	9,600	119,000	N/A	N/A
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	C-90	525,000	9,630	10,340	9,500	280,000	311,000	10,080	144,000	N/A	N/A
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	C-90	597,000	12,380	11,880	10,900	280,000	311,000	8,870	144,000	N/A	N/A
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	C-90	676,000	14,230	13,630	12,500	280,000	311,000	7,820	143,000	N/A	N/A

Note: [Indicates interchangeability

RFC [R-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	R-95	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	R-95	124,000	13,980	13,300	12,200	58,000	64,000	9,340	38,000	N/A	N/A
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	R-95	172,000	12,940	12,550	11,500	85,000	94,000	9,850	45,000	N/A	N/A
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	R-95	246,000	12,080	12,070	11,000	126,000	140,000	10,210	67,000	N/A	N/A
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	R-95	277,000	14,390	13,730	12,600	147,000	163,000	10,580	77,000	N/A	N/A
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	R-95	344,000	17,880	17,480	16,000	196,000	217,000	11,360	93,000	N/A	N/A
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	R-95	350,000	18,180	17,810	16,300	196,000	217,000	11,180	93,000	N/A	N/A
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	R-95	409,000	21,250	21,330	19,500	196,000	217,000	9,560	93,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	R-95	292,000	9,980	10,890	10,000	157,000	173,000	10,710	86,000	N/A	N/A
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	R-95	317,000	11,760	11,890	10,900	171,000	189,000	10,760	86,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	R-95	361,000	14,380	13,720	12,500	190,000	210,000	10,480	97,000	N/A	N/A
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	R-95	342,000	8,410	10,010	9,200	180,000	199,000	10,490	94,000	N/A	N/A
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	R-95	364,000	9,660	10,710	9,800	180,000	199,000	9,850	94,000	N/A	N/A
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	R-95	419,000	12,760	12,450	11,400	220,000	243,000	10,480	127,000	N/A	N/A
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	R-95	522,000	16,420	15,890	14,500	220,000	243,000	8,400	127,000	N/A	N/A
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	R-95	416,000	8,110	9,840	9,000	209,000	231,000	10,030	112,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	R-95	501,000	12,030	12,040	11,000	267,000	295,000	10,630	142,000	N/A	N/A
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	R-95	559,000	14,240	13,570	12,400	267,000	295,000	9,520	142,000	N/A	N/A
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	R-95	577,000	14,680	14,030	12,800	267,000	295,000	9,230	142,000	N/A	N/A
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	R-95	645,000	16,430	15,890	14,500	267,000	295,000	8,250	142,000	N/A	N/A
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	R-95	672,000	17,100	16,630	15,200	267,000	295,000	7,930	142,000	N/A	N/A
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	R-95	471,000	6,940	9,190	8,400	239,000	265,000	10,110	125,000	N/A	N/A
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	R-95	554,000	10,020	10,910	10,000	296,000	327,000	10,660	152,000	N/A	N/A
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	R-95	630,000	12,930	12,540	11,500	296,000	327,000	9,370	152,000	N/A	N/A
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	R-95	714,000	15,020	14,390	13,200	296,000	327,000	8,270	151,000	N/A	N/A

Note: [Indicates interchangeability

RFC [T-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	T-95	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	T-95	124,000	13,980	13,300	12,200	58,000	64,000	9,340	38,000	N/A	N/A
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	T-95	172,000	12,940	12,550	11,500	85,000	94,000	9,850	45,000	N/A	N/A
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	T-95	246,000	12,080	12,070	11,000	126,000	140,000	10,210	67,000	N/A	N/A
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	T-95	277,000	14,390	13,730	12,600	147,000	163,000	10,580	77,000	N/A	N/A
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	T-95	344,000	17,880	17,480	16,000	196,000	217,000	11,360	93,000	N/A	N/A
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	T-95	350,000	18,180	17,810	16,300	196,000	217,000	11,180	93,000	N/A	N/A
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	T-95	409,000	21,250	21,330	19,500	196,000	217,000	9,560	93,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	T-95	292,000	9,980	10,890	10,000	157,000	173,000	10,710	86,000	N/A	N/A
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	T-95	317,000	11,760	11,890	10,900	171,000	189,000	10,760	86,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	T-95	361,000	14,380	13,720	12,500	190,000	210,000	10,480	97,000	N/A	N/A
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	T-95	342,000	8,410	10,010	9,200	180,000	199,000	10,490	94,000	N/A	N/A
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	T-95	364,000	9,660	10,710	9,800	180,000	199,000	9,850	94,000	N/A	N/A
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	T-95	419,000	12,760	12,450	11,400	220,000	243,000	10,480	127,000	N/A	N/A
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	T-95	522,000	16,420	15,890	14,500	220,000	243,000	8,400	127,000	N/A	N/A
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	T-95	416,000	8,110	9,840	9,000	209,000	231,000	10,030	112,000	N/A	N/A
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	T-95	501,000	12,030	12,040	11,000	267,000	295,000	10,630	142,000	N/A	N/A
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	T-95	559,000	14,240	13,570	12,400	267,000	295,000	9,520	142,000	N/A	N/A
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	T-95	577,000	14,680	14,030	12,800	267,000	295,000	9,230	142,000	N/A	N/A
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	T-95	645,000	16,430	15,890	14,500	267,000	295,000	8,250	142,000	N/A	N/A
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	T-95	672,000	17,100	16,630	15,200	267,000	295,000	7,930	142,000	N/A	N/A
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	T-95	471,000	6,940	9,190	8,400	239,000	265,000	10,110	125,000	N/A	N/A
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	T-95	554,000	10,020	10,910	10,000	296,000	327,000	10,660	152,000	N/A	N/A
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	T-95	630,000	12,930	12,540	11,500	296,000	327,000	9,370	152,000	N/A	N/A
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	T-95	714,000	15,020	14,390	13,200	296,000	327,000	8,270	151,000	N/A	N/A

Note: [Indicates interchangeability

RFC [P-110] (Minimum Yield Strength 110,000 psi, Minimum Ultimate Strength 125,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	P-110	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	P-110	143,000	16,130	15,400	14,100	67,000	76,000	10,780	44,000	500	600
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	P-110	199,000	14,550	14,530	13,300	98,000	112,000	11,350	53,000	800	1,000
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	P-110	285,000	13,530	13,970	12,800	146,000	166,000	11,830	78,000	1,000	1,200
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	P-110	321,000	16,670	15,890	14,500	170,000	193,000	12,240	89,000	1,000	1,200
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	P-110	398,000	20,700	20,240	18,500	227,000	258,000	13,160	108,000	1,100	1,300
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	P-110	405,000	21,050	20,630	18,900	227,000	258,000	12,940	108,000	1,100	1,300
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	P-110	473,000	24,600	24,700	22,600	227,000	258,000	11,070	108,000	1,100	1,300
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	P-110	338,000	11,060	12,610	11,500	181,000	206,000	12,350	100,000	1,500	1,800
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	P-110	367,000	13,150	13,760	12,600	198,000	225,000	12,460	100,000	1,500	1,800
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	P-110	419,000	16,650	15,880	14,500	220,000	250,000	12,140	112,000	1,500	1,800
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	P-110	396,000	9,210	11,590	10,600	208,000	236,000	12,130	109,000	2,000	2,500
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	P-110	422,000	10,690	12,410	11,300	208,000	236,000	11,380	109,000	2,200	2,700
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	P-110	485,000	14,340	14,420	13,200	255,000	290,000	12,150	147,000	2,200	2,700
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	P-110	605,000	19,010	18,390	16,800	255,000	290,000	9,740	148,000	2,200	2,700
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	P-110	481,000	8,850	11,400	10,400	242,000	275,000	11,610	129,000	2,800	3,500
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	P-110	580,000	13,470	13,940	12,700	309,000	351,000	12,300	164,000	2,800	3,500
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	P-110	647,000	16,490	15,710	14,400	309,000	351,000	11,020	164,000	2,800	3,500
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	P-110	668,000	17,000	16,250	14,900	309,000	351,000	10,690	164,000	2,800	3,500
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	P-110	747,000	19,020	18,400	16,800	309,000	351,000	9,550	164,000	2,800	3,500
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	P-110	778,000	19,800	19,250	17,600	309,000	351,000	9,180	164,000	2,800	3,500
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	P-110	546,000	7,480	10,640	9,700	277,000	315,000	11,720	145,000	3,400	4,200
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	P-110	641,000	11,100	12,640	11,600	342,000	389,000	12,320	176,000	3,400	4,200
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	P-110	729,000	14,540	14,530	13,300	342,000	389,000	10,830	176,000	3,400	4,200
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	P-110	826,000	17,390	16,660	15,200	342,000	389,000	9,560	175,000	3,400	4,200

Note: [Indicates interchangeability

RFC [Q-125] (Minimum Yield Strength 125,000 psi, Minimum Ultimate Strength 135,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.4)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	Q-125	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
2 3/8	4.70	4.44	0.190	2.375	1.995	1.304	2.375	1.945	1.901	0.612	46.9	2.09	Q-125	163,000	17,900	17,500	16,000	76,000	83,000	12,230	50,000	N/A	N/A
2 7/8	6.50	6.17	0.217	2.875	2.441	1.812	2.875	2.361	2.347	0.893	49.3	2.12	Q-125	227,000	16,070	16,510	15,100	112,000	121,000	12,970	60,000	N/A	N/A
3 1/2	9.30	8.81	0.254	3.500	2.992	2.590	3.500	2.930	2.867	1.330	51.3	2.62	Q-125	324,000	14,890	15,880	14,500	166,000	180,000	13,450	88,000	N/A	N/A
3 1/2	10.30	9.92	0.289	3.500	2.922	2.915	3.500	2.842	2.797	1.548	53.1	2.68	Q-125	364,000	18,940	18,060	16,500	193,000	209,000	13,900	101,000	N/A	N/A
3 1/2	12.80	12.32	0.368	3.500	2.764	3.621	3.500	2.684	2.639	2.064	57.0	2.68	Q-125	453,000	23,520	23,000	21,000	258,000	279,000	14,960	123,000	N/A	N/A
3 1/2	12.95	12.53	0.375	3.500	2.750	3.682	3.500	2.670	2.625	2.064	56.1	2.68	Q-125	460,000	23,920	23,440	21,400	258,000	279,000	14,710	122,000	N/A	N/A
3 1/2	15.50	14.64	0.449	3.500	2.602	4.304	3.500	2.522	2.477	2.064	48.0	2.68	Q-125	538,000	27,960	28,060	25,700	258,000	279,000	12,580	123,000	N/A	N/A
4	11.00	10.47	0.262	4.000	3.476	3.077	4.000	3.396	3.351	1.649	53.6	2.62	Q-125	385,000	12,030	14,330	13,100	206,000	223,000	14,050	113,000	N/A	N/A
4	11.60	11.35	0.286	4.000	3.428	3.337	4.000	3.348	3.303	1.803	54.0	2.62	Q-125	417,000	14,460	15,640	14,300	225,000	243,000	14,150	113,000	N/A	N/A
4	13.40	12.95	0.330	4.000	3.340	3.805	4.000	3.260	3.215	1.999	52.5	2.68	Q-125	476,000	18,910	18,050	16,500	250,000	270,000	13,790	127,000	N/A	N/A
4 1/2	12.60	12.25	0.271	4.500	3.958	3.600	4.500	3.878	3.833	1.891	52.5	2.62	Q-125	450,000	9,890	13,170	12,000	236.000	255.000	13,760	123,000	N/A	N/A
4 1/2	13.50	13.05	0.290	4.500	3.920	3.836	4.500	3.840	3.795	1.891	49.3	2.62	Q-125	479,000	11,600	14,100	12,900	236.000	255.000	12,920	124,000	N/A	N/A
4 1/2	15.10	15.00	0.337	4.500	3.826	4.407	4.500	3.746	3.701	2.319	52.6	2.75	Q-125	551,000	15,830	16,380	15,000	290.000	313.000	13,810	167,000	N/A	N/A
4 1/2	18.80	18.71	0.430	4.500	3.640	5.498	4.500	3.560	3.515	2.319	42.2	2.75	Q-125	687,000	21,610	20,900	19,100	290.000	313,000	11,070	168,000	N/A	N/A
5	15.00	14.88	0.296	5.000	4.408	4.374	5.000	4.328	4.283	2.204	50.4	2.93	Q-125	547,000	9,480	12,950	11,800	275,000	298,000	13,200	147,000	3,200	4,000
5	18.00	17.95	0.362	5.000	4.276	5.275	5.000	4.196	4.151	2.806	53.2	3.00	Q-125	659,000	14,820	15,840	14,500	351,000	379,000	13,970	187,000	3,200	4,000
5	20.30	20.03	0.408	5.000	4.184	5.886	5.000	4.104	4.059	2.806	47.7	3.00	Q-125	736,000	18,550	17,850	16,300	351,000	379,000	12,520	187,000	3,200	4,000
5	20.80	20.65	0.422	5.000	4.156	6.069	5.000	4.076	4.031	2.806	46.2	3.00	Q-125	759,000	19,320	18,460	16,900	351,000	379,000	12,140	187,000	3,200	4,000
5	23.20	23.11	0.478	5.000	4.044	6.791	5.000	3.964	3.919	2.806	41.3	3.00	Q-125	849,000	21,620	20,910	19,100	351,000	379,000	10,850	187,000	3,200	4,000
5	24.20	24.05	0.500	5.000	4.000	7.069	5.000	3.920	3.875	2.806	39.7	3.00	Q-125	884,000	22,500	21,880	20,000	351,000	379,000	10,420	186,000	3,200	4,000
5 1/2	17.00	16.89	0.304	5.500	4.892	4.962	5.500	4.812	4.767	2.521	50.8	3.37	Q-125	620,000	7,890	12,090	11,100	315,000	340,000	13,320	165,000	4,000	5,000
5 1/2	20.00	19.83	0.361	5.500	4.778	5.828	5.500	4.698	4.653	3.113	53.4	3.43	Q-125	729,000	12,080	14,360	13,100	389,000	420,000	14,010	200,000	4,000	5,000
5 1/2	23.00	22.56	0.415	5.500	4.670	6.630	5.500	4.590	4.545	3.113	47.0	3.43	Q-125	829,000	16,060	16,510	15,100	389,000	420,000	12,320	200,000	4,000	5,000
5 1/2	26.00	25.56	0.476	5.500	4.548	7.513	5.500	4.468	4.423	3.113	41.4	3.43	Q-125	939,000	19,760	18,930	17,300	389,000	420,000	10,870	199,000	4,000	5,000

Note: [Indicates interchangeability

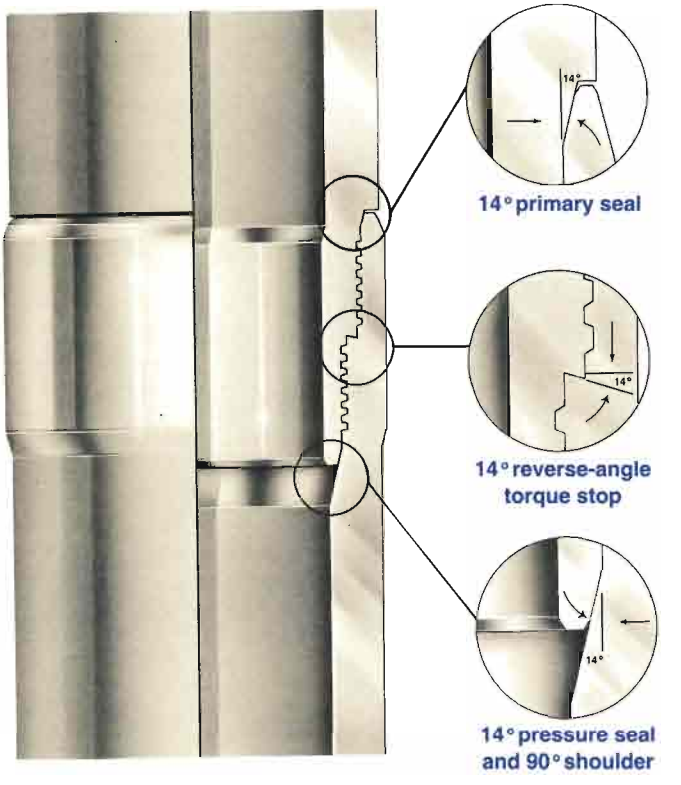
RSS

Premium thread for large O.D. casing.

- O.D. is 1% over API nominal for standard connections.
- Multiple metal-to-metal seals:
  -14° internal self-bleeding/self-energizing primary seal
  -14° self-bleeding external pressure seal with a 90° shoulder
  -14° reserve-angle torque stop between outer seals
- Two-step, flush connection(per pending API specification 5A).
- 6 and 4 pitch-buttress threads.

The best large O.D. connection for maximum clearance in high pressure production casing.

- Plain end tubulars provide maximum clearance
- Connection tension efficiency, burst and collapse ratings are not dependent on API tolerances.
- Customized thread design for each weight of pipe provides maximum tensile efficiency.
- Assured burst and collapse integrity.
- Larger bearing surface for heavier weights of pipe.
- Easy stab-in design prevents cross threading.
- Excellent anti-galling characteristics under multiple make-ups.



RSS [J-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 75,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	J-55	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	J-55	2,48,000	4,040	4,810	4,400	1,75,000	2,39,000	10,400	37,000	N/A	N/A
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	J-55	2,73,000	4,910	5,320	4,900	1,91,000	2,61,000	10,300	45,000	N/A	N/A
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	J-55	3,21,000	6,620	6,320	5,800	2,24,000	3,05,000	10,300	62,300	N/A	N/A
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	J-55	3,65,000	7,670	7,260	6,600	2,52,000	3,44,000	10,200	76,700	N/A	N/A
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	J-55	4,13,000	8,700	8,330	7,600	2,72,000	3,71,000	9,700	86,300	N/A	N/A
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	J-55	4,32,000	9,090	8,750	8,000	2,97,000	4,05,000	10,100	1,00,200	N/A	N/A
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	J-55	4,55,000	9,580	9,280	8,500	3,12,000	4,26,000	10,100	1,07,800	N/A	N/A
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	J-55	4,80,000	10,090	9,840	9,000	3,29,000	4,48,000	10,100	1,16,200	N/A	N/A
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	J-55	5,17,000	10,880	10,710	9,800	3,53,000	4,82,000	10,100	1,29,300	N/A	N/A
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	J-55	5,84,000	12,290	12,340	11,300	3,97,000	5,42,000	10,000	1,51,300	N/A	N/A
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	J-55	3,15,000	2,970	4,180	3,800	2,26,000	3,09,000	10,600	52,000	N/A	N/A
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	J-55	3,59,000	4,010	4,790	4,400	2,55,000	3,48,000	10,500	66,400	N/A	N/A
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	J-55	3,82,000	4,560	5,110	4,700	2,71,000	3,68,000	10,400	74,500	N/A	N/A
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	J-55	4,47,000	6,170	6,060	5,500	3,14,000	4,28,000	10,300	96,600	N/A	N/A
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	J-55	5,05,000	7,320	6,900	6,300	3,52,000	4,80,000	10,300	1,16,700	N/A	N/A
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	J-55	5,53,000	8,030	7,630	7,000	3,84,000	5,24,000	10,200	1,33,300	N/A	N/A
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	J-55	3,16,000	2,270	3,740	3,400	2,30,000	3,13,000	10,700	49,900	N/A	N/A
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	J-55	3,66,000	3,270	4,360	4,000	2,63,000	3,58,000	10,500	66,600	N/A	N/A
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	J-55	4,15,000	4,320	4,980	4,600	2,95,000	4,03,000	10,500	83,800	N/A	N/A
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	J-55	4,65,000	5,400	5,610	5,100	3,17,000	4,33,000	10,100	94,400	N/A	N/A
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	J-55	5,12,000	6,460	6,230	5,700	3,61,000	4,93,000	10,400	1,16,200	N/A	N/A
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	J-55	5,59,000	7,270	6,850	6,300	3,91,000	5,33,000	10,300	1,32,500	N/A	N/A
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	J-55	6,03,000	7,830	7,420	6,800	4,05,000	5,52,000	9,900	1,39,900	N/A	N/A
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	J-55	6,53,000	8,490	8,110	7,400	4,53,000	6,18,000	10,200	1,63,300	N/A	N/A
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	J-55	6,88,000	8,940	8,590	7,900	4,76,000	6,50,000	10,200	1,76,800	N/A	N/A
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	J-55	7,33,000	9,520	9,210	8,400	5,06,000	6,90,000	10,200	1,91,300	N/A	N/A
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	J-55	7,91,000	10,280	10,040	9,200	5,45,000	7,42,000	10,100	2,11,200	N/A	N/A
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	J-55	3,80,000	2,330	3,790	3,500	2,76,000	3,77,000	10,700	67,300	N/A	N/A
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	J-55	4,14,000	2,890	4,140	3,800	2,99,000	4,07,000	10,600	79,100	N/A	N/A
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	J-55	4,70,000	3,910	4,730	4,300	3,36,000	4,58,000	10,500	97,800	N/A	N/A
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	J-55	5,35,000	5,090	5,430	5,000	3,80,000	5,17,000	10,400	1,20,400	N/A	N/A
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	J-55	6,16,000	6,600	6,310	5,800	4,33,000	5,90,000	10,300	1,47,800	N/A	N/A
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	J-55	6,86,000	7,510	7,090	6,500	4,79,000	6,54,000	10,300	1,70,800	N/A	N/A
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	J-55	7,23,000	7,910	7,510	6,900	5,04,000	6,87,000	10,300	1,83,600	N/A	N/A
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	J-55	7,56,000	8,280	7,890	7,200	5,26,000	7,17,000	10,200	1,95,000	N/A	N/A
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	J-55	7,36,000	7,800	7,390	6,800	5,05,000	6,88,000	10,100	1,81,800	N/A	N/A

Note: * These connector sizes are designed to allow oversized drifting.

RSS [K-55] (Minimum Yield Strength 55,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	K-55	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	K-55	2,48,000	4,040	4,810	4,400	1,75,000	3,03,000	13,200	37,000	N/A	N/A
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	K-55	2,73,000	4,910	5,320	4,900	1,91,000	3,30,000	13,000	45,000	N/A	N/A
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	K-55	3,21,000	6,620	6,320	5,800	2,24,000	3,86,000	13,000	62,300	N/A	N/A
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	K-55	3,65,000	7,670	7,260	6,600	2,52,000	4,36,000	12,900	76,700	N/A	N/A
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	K-55	4,13,000	8,700	8,330	7,600	2,72,000	4,69,000	12,200	86,300	N/A	N/A
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	K-55	4,32,000	9,090	8,750	8,000	2,97,000	5,13,000	12,800	1,00,200	N/A	N/A
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	K-55	4,55,000	9,580	9,280	8,500	3,12,000	5,39,000	12,800	1,07,800	N/A	N/A
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	K-55	4,80,000	10,090	9,840	9,000	3,29,000	5,67,000	12,800	1,16,200	N/A	N/A
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	K-55	5,17,000	10,880	10,710	9,800	3,53,000	6,10,000	12,700	1,29,300	N/A	N/A
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	K-55	5,84,000	12,290	12,340	11,300	3,97,000	6,86,000	12,700	1,51,300	N/A	N/A
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	K-55	3,15,000	2,970	4,180	3,800	2,26,000	3,91,000	13,400	52,000	N/A	N/A
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	K-55	3,59,000	4,010	4,790	4,400	2,55,000	4,41,000	13,200	66,400	N/A	N/A
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	K-55	3,82,000	4,560	5,110	4,700	2,71,000	4,67,000	13,200	74,500	N/A	N/A
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	K-55	4,47,000	6,170	6,060	5,500	3,14,000	5,42,000	13,100	96,600	N/A	N/A
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	K-55	5,05,000	7,320	6,900	6,300	3,52,000	6,08,000	13,000	1,16,700	N/A	N/A
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	K-55	5,53,000	8,030	7,630	7,000	3,84,000	6,64,000	12,900	1,33,300	N/A	N/A
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	K-55	3,16,000	2,270	3,740	3,400	2,30,000	3,97,000	13,500	49,900	N/A	N/A
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	K-55	3,66,000	3,270	4,360	4,000	2,63,000	4,54,000	13,400	66,600	N/A	N/A
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	K-55	4,15,000	4,320	4,980	4,600	2,95,000	5,10,000	13,300	83,800	N/A	N/A
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	K-55	4,65,000	5,400	5,610	5,100	3,17,000	5,48,000	12,700	94,400	N/A	N/A
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	K-55	5,12,000	6,460	6,230	5,700	3,61,000	6,24,000	13,100	1,16,200	N/A	N/A
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	K-55	5,59,000	7,270	6,850	6,300	3,91,000	6,75,000	13,000	1,32,500	N/A	N/A
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	K-55	6,03,000	7,830	7,420	6,800	4,05,000	7,00,000	12,500	1,39,900	N/A	N/A
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	K-55	6,53,000	8,490	8,110	7,400	4,53,000	7,82,000	12,900	1,63,300	N/A	N/A
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	K-55	6,88,000	8,940	8,590	7,900	4,76,000	8,23,000	12,900	1,76,800	N/A	N/A
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	K-55	7,33,000	9,520	9,210	8,400	5,06,000	8,73,000	12,800	1,91,300	N/A	N/A
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	K-55	7,91,000	10,280	10,040	9,200	5,45,000	9,40,000	12,800	2,11,200	N/A	N/A
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	K-55	3,80,000	2,330	3,790	3,500	2,76,000	4,77,000	13,500	67,300	N/A	N/A
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	K-55	4,14,000	2,890	4,140	3,800	2,99,000	5,16,000	13,500	79,100	N/A	N/A
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	K-55	4,70,000	3,910	4,730	4,300	3,36,000	5,81,000	13,300	97,800	N/A	N/A
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	K-55	5,35,000	5,090	5,430	5,000	3,80,000	6,55,000	13,200	1,20,400	N/A	N/A
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	K-55	6,16,000	6,600	6,310	5,800	4,33,000	7,48,000	13,100	1,47,800	N/A	N/A
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	K-55	6,86,000	7,510	7,090	6,500	4,79,000	8,28,000	13,000	1,70,800	N/A	N/A
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	K-55	7,23,000	7,910	7,510	6,900	5,04,000	8,70,000	13,000	1,83,600	N/A	N/A
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	K-55	7,56,000	8,280	7,890	7,200	5,26,000	9,09,000	13,000	1,95,000	N/A	N/A
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	K-55	7,36,000	7,800	7,390	6,800	5,05,000	8,71,000	12,800	1,81,800	N/A	N/A

Note: * These connector sizes are designed to allow oversized drifting.

RSS [N-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	N-80	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	N-80	3,61,000	4,990	7,000	6,400	2,55,000	3,19,000	13,900	53,800	1,700	2,125
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	N-80	3,97,000	6,280	7,740	7,100	2,78,000	3,48,000	13,800	65,500	2,000	2,500
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	N-80	4,66,000	8,830	9,190	8,400	3,25,000	4,06,000	13,700	90,400	2,600	3,250
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	N-80	5,30,000	11,160	10,560	9,700	3,67,000	4,59,000	13,600	1,11,300	3,100	3,875
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	N-80	6,01,000	12,650	12,120	11,100	3,95,000	4,94,000	12,900	1,25,600	3,400	4,250
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	N-80	6,28,000	13,220	12,730	11,600	4,32,000	5,40,000	13,500	1,45,700	3,700	4,625
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	N-80	6,62,000	13,930	13,490	12,300	4,54,000	5,68,000	13,500	1,56,900	3,900	4,875
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	N-80	6,97,000	14,680	14,310	13,100	4,77,000	5,97,000	13,400	1,68,700	4,100	5,125
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	N-80	7,52,000	15,820	15,580	14,200	5,14,000	6,42,000	13,400	1,88,000	4,500	5,625
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	N-80	8,50,000	17,880	17,950	16,400	5,78,000	7,22,000	13,300	2,20,200	5,000	6,250
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	N-80	4,59,000	3,480	6,090	5,600	3,30,000	4,12,000	14,100	75,700	2,700	3,375
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	N-80	5,22,000	4,940	6,970	6,400	3,71,000	4,64,000	13,900	96,600	3,300	4,125
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	N-80	5,55,000	5,760	7,440	6,800	3,93,000	4,91,000	13,900	1,08,200	3,600	4,500
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	N-80	6,51,000	8,170	8,810	8,100	4,57,000	5,71,000	13,800	1,40,600	4,400	5,500
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	N-80	7,34,000	10,320	10,040	9,200	5,12,000	6,40,000	13,700	1,69,600	5,000	6,250
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	N-80	8,05,000	11,670	11,090	10,100	5,59,000	6,99,000	13,600	1,94,000	5,500	6,875
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	N-80	4,60,000	2,740	5,440	5,000	3,34,000	4,18,000	14,300	72,700	2,800	3,500
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	N-80	5,32,000	3,830	6,340	5,800	3,82,000	4,78,000	14,100	96,800	3,500	4,375
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	N-80	6,04,000	5,410	7,240	6,600	4,30,000	5,37,000	14,000	1,22,000	4,100	5,125
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	N-80	6,76,000	7,020	8,160	7,500	4,61,000	5,77,000	13,400	1,37,200	4,500	5,625
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	N-80	7,45,000	8,600	9,060	8,300	5,25,000	6,57,000	13,800	1,69,100	5,200	6,500
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	N-80	8,14,000	10,180	9,960	9,100	5,69,000	7,11,000	13,700	1,92,900	5,700	7,125
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	N-80	8,77,000	11,390	10,800	9,900	5,89,000	7,37,000	13,200	2,03,500	6,000	7,500
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	N-80	9,50,000	12,350	11,800	10,800	6,58,000	8,23,000	13,600	2,37,500	6,700	8,375
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	N-80	10,01,000	13,010	12,500	11,400	6,93,000	8,67,000	13,600	2,57,300	7,000	8,750
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	N-80	10,66,000	13,850	13,400	12,300	7,36,000	9,19,000	13,500	2,78,200	7,500	9,375
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	N-80	11,50,000	14,950	14,600	13,300	7,92,000	9,90,000	13,500	3,07,100	8,100	10,125
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	N-80	5,52,000	2,820	5,510	5,000	4,02,000	5,02,000	14,300	97,700	3,800	4,750
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	N-80	6,02,000	3,400	6,020	5,500	4,35,000	5,43,000	14,200	1,15,000	4,300	5,375
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	N-80	6,83,000	4,790	6,890	6,300	4,89,000	6,11,000	14,000	1,42,100	5,000	6,250
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	N-80	7,78,000	6,560	7,900	7,200	5,52,000	6,90,000	13,900	1,75,100	5,800	7,250
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	N-80	8,95,000	8,810	9,180	8,400	6,30,000	7,87,000	13,800	2,14,800	6,700	8,375
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	N-80	9,98,000	10,810	10,320	9,400	6,97,000	8,71,000	13,700	2,48,500	7,500	9,375
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	N-80	10,51,000	11,510	10,920	10,000	7,33,000	9,16,000	13,700	2,67,000	7,900	9,875
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	N-80	11,00,000	12,040	11,480	10,500	7,65,000	9,56,000	13,600	2,83,800	8,300	10,375
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	N-80	10,70,000	11,340	10,750	9,800	7,33,000	9,17,000	13,400	2,64,300	8,000	10,000

Note: * These connector sizes are designed to allow oversized drifting.

RSS [L-80] (Minimum Yield Strength 80,000 psi, Minimum Ultimate Strength 95,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	L-80	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	L-80	3,61,000	4,990	7,000	6,400	2,55,000	3,03,000	13,200	53,800	1,700	2,125
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	L-80	3,97,000	6,280	7,740	7,100	2,78,000	3,30,000	13,000	65,500	2,000	2,500
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	L-80	4,66,000	8,830	9,190	8,400	3,25,000	3,86,000	13,000	90,400	2,600	3,250
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	L-80	5,30,000	11,160	10,560	9,700	3,67,000	4,36,000	12,900	1,11,300	3,100	3,875
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	L-80	6,01,000	12,650	12,120	11,100	3,95,000	4,69,000	12,200	1,25,600	3,400	4,250
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	L-80	6,28,000	13,220	12,730	11,600	4,32,000	5,13,000	12,800	1,45,700	3,700	4,625
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	L-80	6,62,000	13,930	13,490	12,300	4,54,000	5,39,000	12,800	1,56,900	3,900	4,875
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	L-80	6,97,000	14,680	14,310	13,100	4,77,000	5,67,000	12,800	1,68,700	4,100	5,125
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	L-80	7,52,000	15,820	15,580	14,200	5,14,000	6,10,000	12,700	1,88,000	4,500	5,625
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	L-80	8,50,000	17,880	17,950	16,400	5,78,000	6,86,000	12,700	2,20,200	5,000	6,250
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	L-80	4,59,000	3,480	6,090	5,600	3,30,000	3,91,000	13,400	75,700	2,700	3,375
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	L-80	5,22,000	4,940	6,970	6,400	3,71,000	4,41,000	13,200	96,600	3,300	4,125
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	L-80	5,55,000	5,760	7,440	6,800	3,93,000	4,67,000	13,200	1,08,200	3,600	4,500
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	L-80	6,51,000	8,170	8,810	8,100	4,57,000	5,42,000	13,100	1,40,600	4,400	5,500
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	L-80	7,34,000	10,320	10,040	9,200	5,12,000	6,08,000	13,000	1,69,600	5,000	6,250
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	L-80	8,05,000	11,670	11,090	10,100	5,59,000	6,64,000	12,900	1,94,000	5,500	6,875
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	L-80	4,60,000	2,740	5,440	5,000	3,34,000	3,97,000	13,500	72,700	2,800	3,500
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	L-80	5,32,000	3,830	6,340	5,800	3,82,000	4,54,000	13,400	96,800	3,500	4,375
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	L-80	6,04,000	5,410	7,240	6,600	4,30,000	5,10,000	13,300	1,22,000	4,100	5,125
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	L-80	6,76,000	7,020	8,160	7,500	4,61,000	5,48,000	12,700	1,37,200	4,500	5,625
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	L-80	7,45,000	8,600	9,060	8,300	5,25,000	6,24,000	13,100	1,69,100	5,200	6,500
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	L-80	8,14,000	10,180	9,960	9,100	5,69,000	6,75,000	13,000	1,92,900	5,700	7,125
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	L-80	8,77,000	11,390	10,800	9,900	5,89,000	7,00,000	12,500	2,03,500	6,000	7,500
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	L-80	9,50,000	12,350	11,800	10,800	6,58,000	7,82,000	12,900	2,37,500	6,700	8,375
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	L-80	10,01,000	13,010	12,500	11,400	6,93,000	8,23,000	12,900	2,57,300	7,000	8,750
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	L-80	10,66,000	13,850	13,400	12,300	7,36,000	8,73,000	12,800	2,78,200	7,500	9,375
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	L-80	11,50,000	14,950	14,600	13,300	7,92,000	9,40,000	12,800	3,07,100	8,100	10,125
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	L-80	5,52,000	2,820	5,510	5,000	4,02,000	4,77,000	13,500	97,700	3,800	4,750
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	L-80	6,02,000	3,400	6,020	5,500	4,35,000	5,16,000	13,500	1,15,000	4,300	5,375
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	L-80	6,83,000	4,790	6,890	6,300	4,89,000	5,81,000	13,300	1,42,100	5,000	6,250
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	L-80	7,78,000	6,560	7,900	7,200	5,52,000	6,55,000	13,200	1,75,100	5,800	7,250
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	L-80	8,95,000	8,810	9,180	8,400	6,30,000	7,48,000	13,100	2,14,800	6,700	8,375
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	L-80	9,98,000	10,810	10,320	9,400	6,97,000	8,28,000	13,000	2,48,500	7,500	9,375
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	L-80	10,51,000	11,510	10,920	10,000	7,33,000	8,70,000	13,000	2,67,000	7,900	9,875
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	L-80	11,00,000	12,040	11,480	10,500	7,65,000	9,09,000	13,000	2,83,800	8,300	10,375
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	L-80	10,70,000	11,340	10,750	9,800	7,33,000	8,71,000	12,800	2,64,300	8,000	10,000

Note: * These connector sizes are designed to allow oversized drifting.

RSS [C-90] (Minimum Yield Strength 90,000 psi, Minimum Ultimate Strength 100,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	C-90	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	C-90	4,06,000	5,260	7,880	7,200	2,87,000	3,19,000	13,900	60,500	N/A	N/A
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	C-90	4,47,000	6,740	8,710	8,000	3,13,000	3,48,000	13,800	73,800	N/A	N/A
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	C-90	5,25,000	9,630	10,340	9,500	3,66,000	4,06,000	13,700	1,01,900	N/A	N/A
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	C-90	5,97,000	12,380	11,880	10,900	4,13,000	4,59,000	13,600	1,25,400	N/A	N/A
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	C-90	6,76,000	14,230	13,630	12,500	4,44,000	4,94,000	12,900	1,41,300	N/A	N/A
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	C-90	7,07,000	14,880	14,320	13,100	4,86,000	5,40,000	13,500	1,64,000	N/A	N/A
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	C-90	7,45,000	15,670	15,180	13,900	5,11,000	5,68,000	13,500	1,76,600	N/A	N/A
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	C-90	7,85,000	16,510	16,090	14,700	5,38,000	5,97,000	13,400	1,90,000	N/A	N/A
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	C-90	8,46,000	17,800	17,530	16,000	5,78,000	6,42,000	13,400	2,11,500	N/A	N/A
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	C-90	9,56,000	20,120	20,190	18,500	6,50,000	7,22,000	13,300	2,47,600	N/A	N/A
6 ⅝	20.000	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	C-90	5,16,000	3,700	6,850	6,300	3,71,000	4,12,000	14,100	85,100	N/A	N/A
6 ⅝	23.200	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	C-90	5,87,000	5,210	7,850	7,200	4,17,000	4,64,000	13,900	1,08,600	N/A	N/A
6 ⅝	24.000	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	C-90	6,24,000	6,140	8,370	7,700	4,42,000	4,91,000	13,900	1,21,700	N/A	N/A
6 ⅝	28.000	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	C-90	7,32,000	8,880	9,910	9,100	5,14,000	5,71,000	13,800	1,58,100	N/A	N/A
6 ⅝	32.000	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	C-90	8,26,000	11,330	11,290	10,300	5,76,000	6,40,000	13,700	1,90,800	N/A	N/A
6 ⅝	35.000	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	C-90	9,05,000	13,130	12,480	11,400	6,29,000	6,99,000	13,600	2,18,100	N/A	N/A
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	C-90	5,17,000	2,860	6,120	5,600	3,76,000	4,18,000	14,300	81,700	N/A	N/A
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	C-90	5,99,000	4,030	7,130	6,500	4,30,000	4,78,000	14,100	1,09,000	N/A	N/A
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	C-90	6,79,000	5,740	8,150	7,400	4,83,000	5,37,000	14,000	1,37,200	N/A	N/A
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	C-90	7,60,000	7,580	9,180	8,400	5,19,000	5,77,000	13,400	1,54,300	N/A	N/A
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	C-90	8,39,000	9,380	10,190	9,300	5,91,000	6,57,000	13,800	1,90,500	N/A	N/A
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	C-90	9,16,000	11,170	11,210	10,200	6,40,000	7,11,000	13,700	2,17,100	N/A	N/A
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	C-90	9,86,000	12,820	12,150	11,100	6,63,000	7,37,000	13,200	2,28,800	N/A	N/A
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	C-90	10,69,000	13,890	13,280	12,100	7,41,000	8,23,000	13,600	2,67,300	N/A	N/A
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	C-90	11,27,000	14,640	14,060	12,900	7,80,000	8,67,000	13,600	2,89,600	N/A	N/A
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	C-90	11,99,000	15,580	15,080	13,800	8,27,000	9,19,000	13,500	3,12,900	N/A	N/A
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	C-90	12,94,000	16,810	16,430	15,000	8,91,000	9,90,000	13,500	3,45,500	N/A	N/A
7 ⅝	24.000	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	C-90	6,21,000	2,950	6,200	5,700	4,52,000	5,02,000	14,300	1,09,900	N/A	N/A
7 ⅝	26.400	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	C-90	6,77,000	3,610	6,780	6,200	4,89,000	5,43,000	14,200	1,29,300	N/A	N/A
7 ⅝	29.700	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	C-90	7,69,000	5,030	7,750	7,100	5,50,000	6,11,000	14,000	1,60,000	N/A	N/A
7 ⅝	33.700	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	C-90	8,75,000	7,050	8,880	8,100	6,21,000	6,90,000	13,900	1,96,900	N/A	N/A
7 ⅝	39.000	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	C-90	10,07,000	9,620	10,330	9,400	7,08,000	7,87,000	13,800	2,41,700	N/A	N/A
7 ⅝	42.800	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	C-90	11,22,000	11,890	11,610	10,600	7,84,000	8,71,000	13,700	2,79,400	N/A	N/A
7 ⅝	45.300	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	C-90	11,83,000	12,950	12,290	11,200	8,25,000	9,16,000	13,700	3,00,500	N/A	N/A
7 ⅝	47.100	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	C-90	12,37,000	13,550	12,910	11,800	8,61,000	9,56,000	13,600	3,19,100	N/A	N/A
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	C-90	12,04,000	12,750	12,090	11,100	8,25,000	9,17,000	13,400	2,97,400	N/A	N/A

Note: * These connector sizes are designed to allow oversized drifting.

RSS [R-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	R-95	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	R-95	4,29,000	5,360	8,310	7,600	3,03,000	3,35,000	14,500	63,900	N/A	N/A
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	R-95	4,71,000	6,930	9,190	8,400	3,30,000	3,65,000	14,400	77,700	N/A	N/A
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	R-95	5,54,000	10,000	10,910	10,000	3,86,000	4,27,000	14,400	1,07,500	N/A	N/A
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	R-95	6,30,000	12,920	12,540	11,500	4,36,000	4,81,000	14,200	1,32,300	N/A	N/A
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	R-95	7,14,000	15,020	14,390	13,200	4,69,000	5,19,000	13,500	1,49,200	N/A	N/A
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	R-95	7,46,000	15,700	15,110	13,800	5,13,000	5,67,000	14,200	1,73,100	N/A	N/A
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	R-95	7,86,000	16,540	16,020	14,600	5,39,000	5,96,000	14,100	1,86,300	N/A	N/A
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	R-95	8,28,000	17,430	16,990	15,500	5,67,000	6,27,000	14,100	2,00,400	N/A	N/A
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	R-95	8,93,000	18,790	18,500	16,900	6,10,000	6,74,000	14,100	2,23,300	N/A	N/A
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	R-95	10,09,000	21,230	21,310	19,500	6,86,000	7,59,000	14,000	2,61,300	N/A	N/A
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	R-95	5,45,000	3,800	7,230	6,600	3,91,000	4,32,000	14,800	89,900	N/A	N/A
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	R-95	6,20,000	5,320	8,280	7,600	4,41,000	4,87,000	14,600	1,14,700	N/A	N/A
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	R-95	6,59,000	6,290	8,830	8,100	4,67,000	5,16,000	14,600	1,28,500	N/A	N/A
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	R-95	7,73,000	9,200	10,460	9,600	5,42,000	5,99,000	14,400	1,67,000	N/A	N/A
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	R-95	8,72,000	11,800	11,920	10,900	6,08,000	6,72,000	14,400	2,01,400	N/A	N/A
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	R-95	9,56,000	13,860	13,170	12,000	6,64,000	7,34,000	14,300	2,30,400	N/A	N/A
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	R-95	5,46,000	2,900	6,460	5,900	3,97,000	4,39,000	15,000	86,300	N/A	N/A
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	R-95	6,32,000	4,150	7,530	6,900	4,54,000	5,01,000	14,800	1,15,000	N/A	N/A
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	R-95	7,17,000	5,870	8,600	7,900	5,10,000	5,64,000	14,700	1,44,800	N/A	N/A
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	R-95	8,03,000	7,820	9,690	8,900	5,48,000	6,06,000	14,100	1,63,000	N/A	N/A
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	R-95	8,85,000	9,730	10,760	9,800	6,24,000	6,90,000	14,500	2,00,900	N/A	N/A
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	R-95	9,66,000	11,640	11,830	10,800	6,75,000	7,46,000	14,400	2,28,900	N/A	N/A
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	R-95	10,41,000	13,420	12,820	11,700	7,00,000	7,73,000	13,800	2,41,500	N/A	N/A
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	R-95	11,29,000	14,660	14,010	12,800	7,82,000	8,65,000	14,300	2,82,300	N/A	N/A
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	R-95	11,89,000	15,450	14,840	13,600	8,23,000	9,10,000	14,300	3,05,600	N/A	N/A
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	R-95	12,66,000	16,450	15,910	14,500	8,74,000	9,65,000	14,200	3,30,400	N/A	N/A
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	R-95	13,66,000	17,750	17,340	15,900	9,40,000	10,39,000	14,200	3,64,700	N/A	N/A
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	R-95	6,56,000	3,000	6,540	6,000	4,77,000	5,27,000	15,000	1,16,100	N/A	N/A
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	R-95	7,14,000	3,710	7,150	6,500	5,16,000	5,70,000	14,900	1,36,400	N/A	N/A
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	R-95	8,11,000	5,120	8,180	7,500	5,80,000	6,42,000	14,700	1,68,700	N/A	N/A
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	R-95	9,23,000	7,260	9,380	8,600	6,55,000	7,24,000	14,600	2,07,700	N/A	N/A
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	R-95	10,63,000	9,980	10,900	10,000	7,48,000	8,27,000	14,500	2,55,100	N/A	N/A
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	R-95	11,85,000	12,400	12,250	11,200	8,28,000	9,15,000	14,400	2,95,100	N/A	N/A
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	R-95	12,48,000	13,670	12,970	11,900	8,70,000	9,62,000	14,400	3,17,000	N/A	N/A
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	R-95	13,06,000	14,300	13,630	12,500	9,09,000	10,04,000	14,300	3,36,900	N/A	N/A
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	R-95	12,71,000	13,310	12,760	11,700	8,71,000	9,63,000	14,100	3,13,900	N/A	N/A

Note: * These connector sizes are designed to allow oversized drifting.

RSS [T-95] (Minimum Yield Strength 95,000 psi, Minimum Ultimate Strength 105,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	T-95	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	T-95	4,29,000	5,360	8,310	7,600	3,03,000	3,35,000	14,500	63,900	N/A	N/A
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	T-95	4,71,000	6,930	9,190	8,400	3,30,000	3,65,000	14,400	77,700	N/A	N/A
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	T-95	5,54,000	10,000	10,910	10,000	3,86,000	4,27,000	14,400	1,07,500	N/A	N/A
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	T-95	6,30,000	12,920	12,540	11,500	4,36,000	4,81,000	14,200	1,32,300	N/A	N/A
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	T-95	7,14,000	15,020	14,390	13,200	4,69,000	5,19,000	13,500	1,49,200	N/A	N/A
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	T-95	7,46,000	15,700	15,110	13,800	5,13,000	5,67,000	14,200	1,73,100	N/A	N/A
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	T-95	7,86,000	16,540	16,020	14,600	5,39,000	5,96,000	14,100	1,86,300	N/A	N/A
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	T-95	8,28,000	17,430	16,990	15,500	5,67,000	6,27,000	14,100	2,00,400	N/A	N/A
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	T-95	8,93,000	18,790	18,500	16,900	6,10,000	6,74,000	14,100	2,23,300	N/A	N/A
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	T-95	10,09,000	21,230	21,310	19,500	6,86,000	7,59,000	14,000	2,61,300	N/A	N/A
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	T-95	5,45,000	3,800	7,230	6,600	3,91,000	4,32,000	14,800	89,900	N/A	N/A
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	T-95	6,20,000	5,320	8,280	7,600	4,41,000	4,87,000	14,600	1,14,700	N/A	N/A
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	T-95	6,59,000	6,290	8,830	8,100	4,67,000	5,16,000	14,600	1,28,500	N/A	N/A
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	T-95	7,73,000	9,200	10,460	9,600	5,42,000	5,99,000	14,400	1,67,000	N/A	N/A
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	T-95	8,72,000	11,800	11,920	10,900	6,08,000	6,72,000	14,400	2,01,400	N/A	N/A
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	T-95	9,56,000	13,860	13,170	12,000	6,64,000	7,34,000	14,300	2,30,400	N/A	N/A
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	T-95	5,46,000	2,900	6,460	5,900	3,97,000	4,39,000	15,000	86,300	N/A	N/A
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	T-95	6,32,000	4,150	7,530	6,900	4,54,000	5,01,000	14,800	1,15,000	N/A	N/A
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	T-95	7,17,000	5,870	8,600	7,900	5,10,000	5,64,000	14,700	1,44,800	N/A	N/A
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	T-95	8,03,000	7,820	9,690	8,900	5,48,000	6,06,000	14,100	1,63,000	N/A	N/A
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	T-95	8,85,000	9,730	10,760	9,800	6,24,000	6,90,000	14,500	2,00,900	N/A	N/A
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	T-95	9,66,000	11,640	11,830	10,800	6,75,000	7,46,000	14,400	2,28,900	N/A	N/A
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	T-95	10,41,000	13,420	12,820	11,700	7,00,000	7,73,000	13,800	2,41,500	N/A	N/A
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	T-95	11,29,000	14,660	14,010	12,800	7,82,000	8,65,000	14,300	2,82,300	N/A	N/A
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	T-95	11,89,000	15,450	14,840	13,600	8,23,000	9,10,000	14,300	3,05,600	N/A	N/A
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	T-95	12,66,000	16,450	15,910	14,500	8,74,000	9,65,000	14,200	3,30,400	N/A	N/A
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	T-95	13,66,000	17,750	17,340	15,900	9,40,000	10,39,000	14,200	3,64,700	N/A	N/A
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	T-95	6,56,000	3,000	6,540	6,000	4,77,000	5,27,000	15,000	1,16,100	N/A	N/A
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	T-95	7,14,000	3,710	7,150	6,500	5,16,000	5,70,000	14,900	1,36,400	N/A	N/A
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	T-95	8,11,000	5,120	8,180	7,500	5,80,000	6,42,000	14,700	1,68,700	N/A	N/A
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	T-95	9,23,000	7,260	9,380	8,600	6,55,000	7,24,000	14,600	2,07,700	N/A	N/A
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	T-95	10,63,000	9,980	10,900	10,000	7,48,000	8,27,000	14,500	2,55,100	N/A	N/A
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	T-95	11,85,000	12,400	12,250	11,200	8,28,000	9,15,000	14,400	2,95,100	N/A	N/A
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	T-95	12,48,000	13,670	12,970	11,900	8,70,000	9,62,000	14,400	3,17,000	N/A	N/A
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	T-95	13,06,000	14,300	13,630	12,500	9,09,000	10,04,000	14,300	3,36,900	N/A	N/A
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	T-95	12,71,000	13,310	12,760	11,700	8,71,000	9,63,000	14,100	3,13,900	N/A	N/A

Note: * These connector sizes are designed to allow oversized drifting.

RSS [P-110] (Minimum Yield Strength 110,000 psi, Minimum Ultimate Strength 125,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	P-110	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	P-110	4,97,000	5,620	9,630	8,800	3,51,000	3,98,000	17,300	74,100	2,300	2,875
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	P-110	5,46,000	7,460	10,640	9,700	3,83,000	4,35,000	17,200	90,100	2,700	3,375
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	P-110	6,41,000	11,080	12,640	11,600	4,47,000	5,08,000	17,100	1,24,400	3,400	4,250
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	P-110	7,29,000	14,520	14,530	13,300	5,04,000	5,73,000	16,900	1,53,100	3,900	4,875
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	P-110	8,26,000	17,390	16,660	15,200	5,43,000	6,18,000	16,100	1,72,600	4,300	5,375
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	P-110	8,64,000	18,180	17,500	16,000	5,94,000	6,75,000	16,900	2,00,400	4,700	5,875
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	P-110	9,10,000	19,160	18,550	17,000	6,24,000	7,10,000	16,800	2,15,700	5,000	6,250
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	P-110	9,59,000	20,180	19,670	18,000	6,57,000	7,47,000	16,800	2,32,100	5,300	6,625
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	P-110	10,34,000	21,760	21,420	19,600	7,07,000	8,03,000	16,800	2,58,500	5,700	7,125
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	P-110	11,68,000	24,590	24,680	22,600	7,94,000	9,03,000	16,700	3,02,500	6,400	8,000
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	P-110	6,31,000	4,030	8,370	7,000	4,53,000	5,15,000	17,600	1,04,100	3,500	4,375
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	P-110	7,18,000	5,570	9,590	8,800	5,10,000	5,80,000	17,400	1,32,800	4,200	5,250
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	P-110	7,63,000	6,710	10,230	9,400	5,40,000	6,14,000	17,400	1,48,800	4,600	5,750
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	P-110	8,95,000	10,140	12,120	11,100	6,28,000	7,13,000	17,200	1,93,300	5,500	6,875
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	P-110	10,10,000	13,210	13,800	12,600	7,05,000	8,01,000	17,100	2,33,300	6,300	7,875
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	P-110	11,07,000	15,850	15,250	13,900	7,69,000	8,74,000	17,000	2,66,800	7,000	8,750
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	P-110	6,32,000	2,980	7,480	6,800	4,59,000	5,22,000	17,800	99,900	3,600	4,500
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	P-110	7,32,000	4,450	8,720	8,000	5,25,000	5,97,000	17,600	1,33,200	4,400	5,500
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	P-110	8,30,000	6,210	9,950	9,100	5,91,000	6,72,000	17,500	1,67,700	5,200	6,500
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	P-110	9,29,000	8,510	11,220	10,300	6,34,000	7,21,000	16,700	1,88,600	5,700	7,125
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	P-110	10,25,000	10,760	12,460	11,400	7,22,000	8,21,000	17,300	2,32,700	6,700	8,375
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	P-110	11,19,000	13,010	13,700	12,500	7,82,000	8,89,000	17,100	2,65,200	7,300	9,125
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	P-110	12,06,000	15,110	14,850	13,600	8,10,000	9,21,000	16,500	2,79,800	7,700	9,625
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	P-110	13,07,000	16,980	16,230	14,800	9,06,000	10,29,000	17,000	3,26,800	8,700	10,875
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	P-110	13,77,000	17,890	17,190	15,700	9,53,000	10,83,000	17,000	3,53,900	9,300	11,625
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	P-110	14,66,000	19,040	18,430	16,800	10,12,000	11,49,000	16,900	3,82,600	10,000	12,500
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	P-110	15,82,000	20,550	20,080	18,400	10,89,000	12,37,000	16,900	4,22,400	11,000	13,750
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	P-110	7,59,000	3,090	7,570	6,900	5,52,000	6,28,000	17,800	1,34,300	4,800	6,000
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	P-110	8,27,000	3,930	8,280	7,600	5,97,000	6,79,000	17,700	1,58,000	5,400	6,750
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	P-110	9,40,000	5,340	9,470	8,700	6,73,000	7,64,000	17,500	1,95,500	6,400	8,000
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	P-110	10,69,000	7,850	10,860	9,900	7,59,000	8,62,000	17,400	2,40,500	7,400	9,250
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	P-110	12,31,000	11,060	12,620	11,500	8,66,000	9,84,000	17,200	2,95,400	8,700	10,875
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	P-110	13,72,000	13,910	14,190	13,000	9,59,000	10,89,000	17,100	3,41,600	9,800	12,250
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	P-110	14,45,000	15,420	15,020	13,700	10,07,000	11,45,000	17,100	3,67,000	10,500	13,125
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	P-110	15,12,000	16,550	15,780	14,400	10,52,000	11,96,000	17,100	3,90,100	11,100	13,875
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	P-110	14,71,000	14,980	14,780	13,500	10,08,000	11,46,000	16,800	3,63,300	10,600	13,250

Note: * These connector sizes are designed to allow oversized drifting.

RSS [Q-125] (Minimum Yield Strength 125,000 psi, Minimum Ultimate Strength 135,000 psi)

Size	Pipe Dimensions												Grade	Performance Properties								Recommended Torque Values	
	Pipe						Connection							Pipe Body				Connection					
	Nominal Weight	Plain End Weight	Nominal Wall Thickness	Nominal Pipe Body O.D	Nominal Pipe Body I.D	Nominal Pipe Body Area	OD	ID	Drift Diameter	Critical Area	Joint Efficiency	Make-Up Loss		Minimum Yield Strength	Minimum Collapse Pressure	Minimum Internal Yield Pressure	Hydrostatic Test Pressure	Joint Strength	Reference Minimum Parting Load	Reference String Length (FOS=1.5)	Compression Rating	Final Torque (min)	Final Torque (max)
	lbs/ft	lbs/ft	in	in	in	sq in	in	in	in	sq in	%	in	Q-125	lbs	psi	psi	psi	lbs	lbs	ft	lbs	ft-lbs	ft-lbs
5 ½	15.50	15.35	0.275	5.500	4.950	4.514	5.555	4.875	4.825	3.186	70.6	2.44	Q-125	5,64,000	5,890	10,940	10,000	3,98,000	4,30,000	18,700	84,000	N/A	N/A
5 ½	17.00	16.87	0.304	5.500	4.892	4.962	5.555	4.817	4.767	3.478	70.1	3.27	Q-125	6,20,000	7,890	12,090	11,100	4,35,000	4,70,000	18,600	1,02,300	N/A	N/A
5 ½	20.00	19.81	0.361	5.500	4.778	5.828	5.555	4.703	4.653	4.062	69.7	2.77	Q-125	7,29,000	12,090	14,360	13,100	5,08,000	5,48,000	18,400	1,41,400	N/A	N/A
5 ½	23.00	22.54	0.415	5.500	4.670	6.630	5.555	4.595	4.545	4.585	69.2	3.10	Q-125	8,29,000	16,060	16,510	15,100	5,73,000	6,19,000	18,300	1,74,100	N/A	N/A
5 ½	*26.00	25.54	0.476	5.500	4.548	7.513	5.583	4.555	4.500	4.940	65.8	3.10	Q-125	9,39,000	19,760	18,930	17,300	6,17,000	6,67,000	17,400	1,96,300	N/A	N/A
5 ½	26.80	26.70	0.500	5.500	4.500	7.854	5.555	4.425	4.375	5.402	68.8	3.44	Q-125	9,82,000	20,660	19,890	18,200	6,75,000	7,29,000	18,200	2,27,800	N/A	N/A
5 ½	28.40	28.13	0.530	5.500	4.440	8.275	5.555	4.365	4.315	5.677	68.6	3.44	Q-125	10,34,000	21,770	21,080	19,300	7,09,000	7,66,000	18,200	2,45,100	N/A	N/A
5 ½	29.70	29.64	0.562	5.500	4.376	8.718	5.555	4.301	4.251	5.972	68.5	3.44	Q-125	10,90,000	22,940	22,350	20,400	7,47,000	8,06,000	18,100	2,63,800	N/A	N/A
5 ½	32.30	31.95	0.612	5.500	4.276	9.398	5.555	4.201	4.151	6.423	68.3	3.77	Q-125	11,75,000	24,720	24,340	22,300	8,03,000	8,67,000	18,100	2,93,800	N/A	N/A
5 ½	36.40	36.10	0.705	5.500	4.090	10.620	5.555	4.015	3.965	7.224	68.0	4.10	Q-125	13,28,000	27,940	28,040	25,600	9,03,000	9,75,000	18,000	3,44,000	N/A	N/A
6 ⅝	20.00	19.49	0.288	6.625	6.049	5.734	6.691	5.974	5.924	4.118	71.8	2.45	Q-125	7,17,000	4,170	9,510	8,700	5,15,000	5,56,000	19,000	1,18,300	N/A	N/A
6 ⅝	23.20	22.19	0.330	6.625	5.965	6.526	6.691	5.890	5.840	4.639	71.1	2.78	Q-125	8,16,000	5,840	10,900	10,000	5,80,000	6,26,000	18,800	1,51,000	N/A	N/A
6 ⅝	24.00	23.58	0.352	6.625	5.921	6.937	6.691	5.846	5.796	4.913	70.8	2.78	Q-125	8,67,000	7,020	11,620	10,600	6,14,000	6,63,000	18,700	1,69,100	N/A	N/A
6 ⅝	28.00	27.65	0.417	6.625	5.791	8.133	6.691	5.716	5.666	5.707	70.2	3.11	Q-125	10,17,000	11,000	13,770	12,600	7,14,000	7,70,000	18,600	2,19,700	N/A	N/A
6 ⅝	32.00	31.20	0.475	6.625	5.675	9.177	6.691	5.600	5.550	6.404	69.8	3.11	Q-125	11,47,000	14,540	15,680	14,300	8,00,000	8,65,000	18,500	2,65,000	N/A	N/A
6 ⅝	35.00	34.20	0.525	6.625	5.575	10.061	6.691	5.500	5.450	6.990	69.5	3.45	Q-125	12,58,000	17,590	17,330	15,800	8,74,000	9,44,000	18,400	3,03,200	N/A	N/A
7	20.20	19.54	0.272	7.000	6.456	5.749	7.070	6.381	6.331	4.178	72.7	2.45	Q-125	7,19,000	2,980	8,500	7,800	5,23,000	5,64,000	19,200	1,13,600	N/A	N/A
7	23.30	22.63	0.317	7.000	6.366	6.656	7.070	6.291	6.241	4.776	71.8	2.78	Q-125	8,32,000	4,650	9,910	9,100	5,97,000	6,45,000	19,000	1,51,400	N/A	N/A
7	26.30	25.66	0.362	7.000	6.276	7.549	7.070	6.201	6.151	5.373	71.2	2.78	Q-125	9,44,000	6,450	11,310	10,300	6,72,000	7,25,000	18,800	1,90,700	N/A	N/A
7	*29.30	28.72	0.408	7.000	6.184	8.449	7.105	6.180	6.125	5.767	68.3	2.78	Q-125	10,56,000	9,110	12,750	11,700	7,21,000	7,79,000	18,100	2,14,400	N/A	N/A
7	*32.20	31.68	0.453	7.000	6.094	9.317	7.105	6.055	6.000	6.567	70.5	3.12	Q-125	11,65,000	11,710	14,160	12,900	8,21,000	8,87,000	18,700	2,64,500	N/A	N/A
7	35.10	34.58	0.498	7.000	6.004	10.172	7.070	5.929	5.879	7.108	69.9	3.45	Q-125	12,72,000	14,310	15,560	14,200	8,89,000	9,60,000	18,500	3,01,500	N/A	N/A
7	*37.70	37.26	0.540	7.000	5.920	10.959	7.105	5.930	5.875	7.365	67.2	3.45	Q-125	13,70,000	16,740	16,880	15,400	9,21,000	9,94,000	17,800	3,17,800	N/A	N/A
7	41.00	40.39	0.590	7.000	5.820	11.881	7.070	5.745	5.695	8.234	69.3	3.78	Q-125	14,85,000	19,300	18,440	16,900	10,29,000	11,12,000	18,400	3,71,300	N/A	N/A
7	42.90	42.55	0.625	7.000	5.750	12.517	7.070	5.675	5.625	8.667	69.2	3.78	Q-125	15,65,000	20,330	19,530	17,900	10,84,000	11,70,000	18,300	4,02,200	N/A	N/A
7	46.00	45.30	0.670	7.000	5.660	13.324	7.070	5.585	5.535	9.194	69.0	3.78	Q-125	16,65,000	21,640	20,940	19,100	11,49,000	12,41,000	18,300	4,34,600	N/A	N/A
7	49.50	48.88	0.730	7.000	5.540	14.379	7.070	5.465	5.415	9.899	68.8	4.12	Q-125	17,97,000	23,350	22,810	20,900	12,37,000	13,36,000	18,200	4,79,800	N/A	N/A
7 ⅝	24.00	23.47	0.300	7.625	7.025	6.904	7.701	6.950	6.900	5.022	72.7	2.79	Q-125	8,63,000	3,100	8,610	7,900	6,28,000	6,78,000	19,300	1,52,800	N/A	N/A
7 ⅝	26.40	25.56	0.328	7.625	6.969	7.519	7.701	6.894	6.844	5.432	72.2	2.79	Q-125	9,40,000	4,050	9,410	8,600	6,79,000	7,33,000	19,100	1,79,500	N/A	N/A
7 ⅝	29.70	29.04	0.375	7.625	6.875	8.541	7.701	6.800	6.750	6.112	71.6	2.79	Q-125	10,68,000	5,670	10,760	9,800	7,64,000	8,25,000	18,900	2,22,100	N/A	N/A
7 ⅝	33.70	33.04	0.430	7.625	6.765	9.720	7.701	6.690	6.640	6.897	71.0	3.12	Q-125	12,15,000	8,340	12,340	11,300	8,62,000	9,31,000	18,800	2,73,400	N/A	N/A
7 ⅝	39.00	38.05	0.500	7.625	6.625	11.192	7.701	6.550	6.500	7.872	70.3	3.46	Q-125	13,99,000	12,060	14,340	13,100	9,84,000	10,63,000	18,600	3,35,800	N/A	N/A
7 ⅝	42.80	42.39	0.562	7.625	6.501	12.470	7.701	6.426	6.376	8.714	69.9	3.46	Q-125	15,59,000	15,350	16,120	14,700	10,89,000	11,76,000	18,500	3,88,200	N/A	N/A
7 ⅝	45.30	44.67	0.595	7.625	6.435	13.141	7.701	6.360	6.310	9.161	69.7	3.79	Q-125	16,43,000	17,100	17,070	15,600	11,45,000	12,37,000	18,500	4,17,300	N/A	N/A
7 ⅝	47.10	46.73	0.625	7.625	6.375	13.745	7.701	6.300	6.250	9.564	69.6	3.79	Q-125	17,18,000	18,700	17,930	16,400	11,95,000	12,91,000	18,400	4,43,200	N/A	N/A
7 ¾	*46.10	45.47	0.595	7.750	6.560	13.374	7.866	6.555	6.500	9.168	68.5	3.79	Q-125	16,72,000	16,600	16,790	15,400	11,46,000	12,38,000	18,200	4,13,000	N/A	N/A

Note: * These connector sizes are designed to allow oversized drifting.


OCTG PROCESS PLANT-II

Oil Country Tubular Ltd.

Manufacturer / Processor of Oil Country Tubular Goods and Drilling Products

- Production Tubing (API & Premium Connections)
- Casing Pipes (API & Premium Connections)
- Couplings, Pup Joints, Subs & Cross Overs
- Drill Pipes / Heavy Weight Drill Pipes / Drill Collars / Kellys
- Double Shoulder and High Torque Connections for Drilling Products
- Two Step and Flush Joint Connections for OCTG
- Oil Field Accessories & Services
- Repair / Reconditioning of Drilling Products and OCTG
- Field Inspection Services

Commited to Total Quality and Customer Satisfaction

Certification / Accreditation

API Specification Q1	:	Registration No. Q1-0016
APIQR (ISO)	:	Registration No. 0078
API Specification 5DP	:	Registration No. 5DP-0065
API Specification 7-1	:	Registration No. 7-1-0082
API Specification 5CT	:	Registration No. 5CT-0243

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