

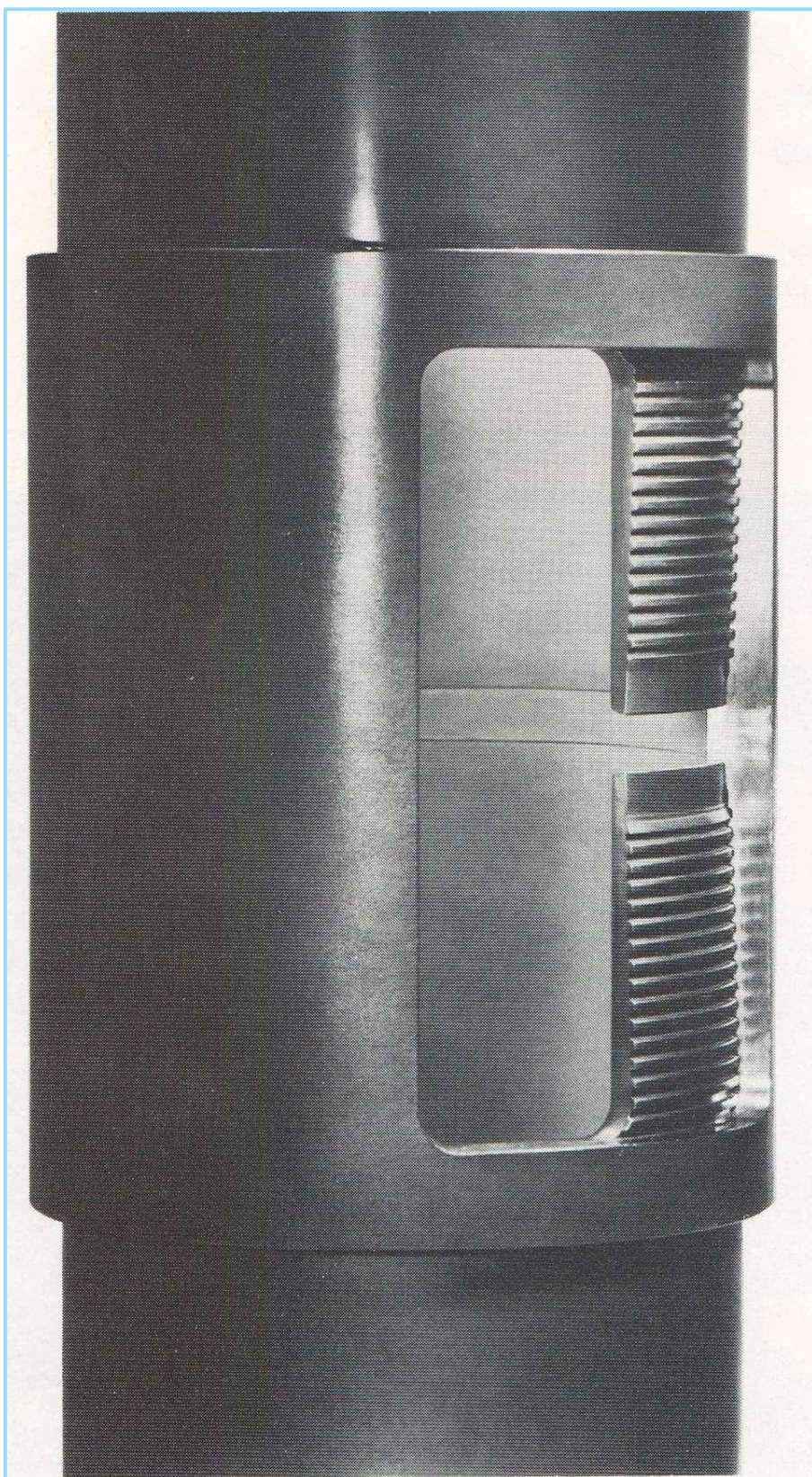


The First Domestic Premium Thread Connection



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SPECIAL JOINTS P.J.E. CASING AND TUBING

GENERAL CHARACTERISTICS

The PJE special joints are remarkable for their exceptional resistance to various stresses encountered in the operation of oil and gas fields, even under the most difficult conditions.

The most notable qualities of PJE special joints are:

- . Resistance to various and combined mechanical stresses.
- . Absolute tightness under the highest pressures.
- . Very high resistance to corrosion.
- . Design with a trapezoidal thread profile that makes it unthreadable and allows for multiple make-ups.
- . Optimized tube-to-coupling fit design that promotes fluid flow and avoids turbulence.

1. RESISTANCE OF PJE JOINTS

The tapered thread with a trapezoidal profile and vanishing threads at the tube surface is very robust and provides PJE with excellent tensile strength.

The 3° load flanks ensure maximum resistance to unthreading.

The joint's strength is guaranteed up to the effective elastic limit of the tube body, with the option in some cases to choose a higher-grade coupling or increase the outer diameter of the coupling to achieve 100% efficiency.

The upset-free tube-to-coupling solution ensures good uniformity of the heat treatment, providing consistent strength with no weak points.

2. SEALING

Thanks to metal-to-metal contact and a central shoulder, PJE joints ensure absolute tightness under the highest pressures allowed for the tube, and even under load.

This sealing performance is obtained through a combination of two sealing cones and an appropriate tightening torque that compresses all parts of the joint in a triaxial state.

3. THREADING

The threading of PJE CASING is compatible with that of Butress casing.

The taper is 6.25%, and the pitch is 5 threads per inch for diameters from 5" to 13"3/8. The threading of PJE TUBING is of the same type as the casing, i.e., trapezoidal threads tapering off at the tube surface.

The taper is also 6.25%, and the pitch is 8 threads per inch for diameters 2"3/8 and 2"7/8, and 6 threads per inch for diameters 3"1/2 – 4" – and 4"1/2.

4. INTERNAL PROFILE

PJE joints have a smooth internal alignment between the tube and coupling walls, ensuring laminar flow and avoiding turbulence.

This type of alignment allows easy passage of the drift for inspection.

5. MACHINING AND CONTROL

The precision machining of the PJE is remarkable thanks to the technological input of numerically controlled machines used for its production.

Quality control is performed on 100% of the tubes.

6. COUPLING DIMENSIONS

The "Regular" PJE casing couplings have identical dimensions to those of API; when PJE tubing, they are less bulky and have a smaller or equal external diameter compared to API.

It is also possible to obtain couplings with a larger external dimension, called "special clearance couplings" (see table).

The couplings can be made on request with 20° chamfers allowing better introduction of the string into the well.

7. SURFACE TREATMENT

All PJE Coupling are phosphatized to reduce wear by decreasing friction during successive unscrewing.

On special request, PJE mandrels can be electro-zinc plated, which ensures, in addition to the advantages of phosphatizing, excellent corrosion protection.

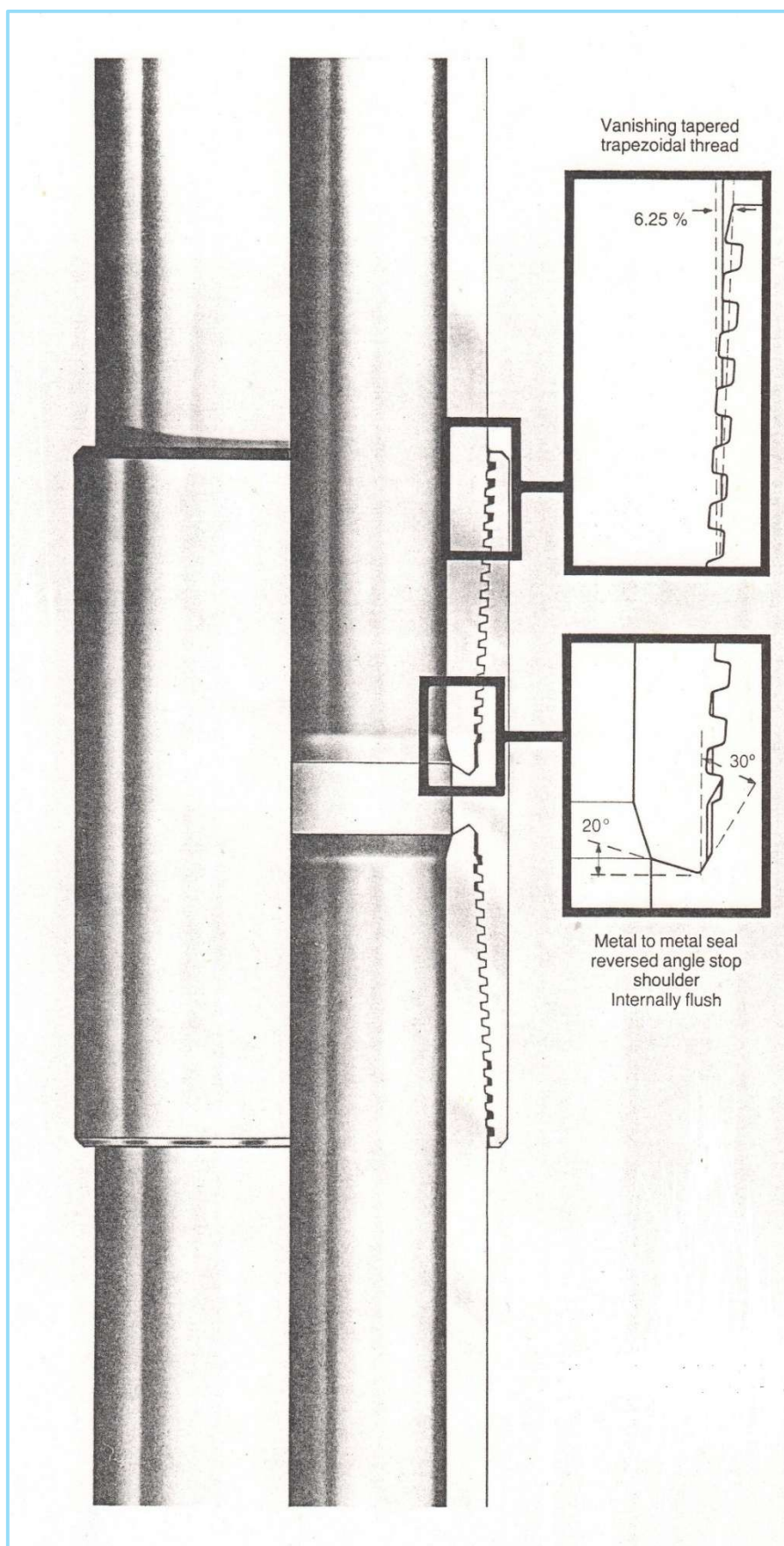
8. COMPATIBILITY

PJE casing joints, assembled on a joint with API BUTTRESS, provide the sealing characteristics of API.

PJE casing and tubing joints, assembled on a "VAM" joint, provide the characteristic sealing of VAM.

9. TECHNICAL SUPPORT

LGE provides the necessary technical support for the use of tubes equipped with PJE joints to customers who request it.



Coupled joint

- . Non upset connection, hence:
- Homogeneous metallurgical structure
- No ring worm corrosion
- Good hydrogen embrittlement resistance
- Ease of repair in workshop

Tapered trapezoidal thread

- . Full thread run-out guarantees PJE Regular Connection 100% joint efficiency
- . Easy stabbing and fast make-up
- . High resistance to pull-out

Metal to metal seal

- . High contact pressure conical seal ensuring 100% gas tightness
- Self repairing capability
- . Repeatability of make-up

Features specific to tubing joints

Size 4 1/2" and below

2 7/8" and below : 8 threads per inch

3 1/2" and above : 6 threads per inch

Seal Taper : 30°

Shoulder : 20°

Tight tolerances on machined internal surfaces to a flush profile without any turbulence

Internal shoulder

. Its reverse angle design provides a good make-up control and ensures leak-tightness to any combination of tension pressure, bending, compression or thermal shocks stresses

profile

. Good clearance (PJE Regular Coupling O.D. is equal or less than equivalent API threaded and coupled joints)

. PJE SPECIAL CLEARANCE joints will suit cases where clearance is a critical factor

. internally flush

. 45° standard outside coupling bevel to use collar elevators. Optional 20° beveled joints may be supplied if dual completion program

. Can be internally and/or externally coated

Features specific to casing joints

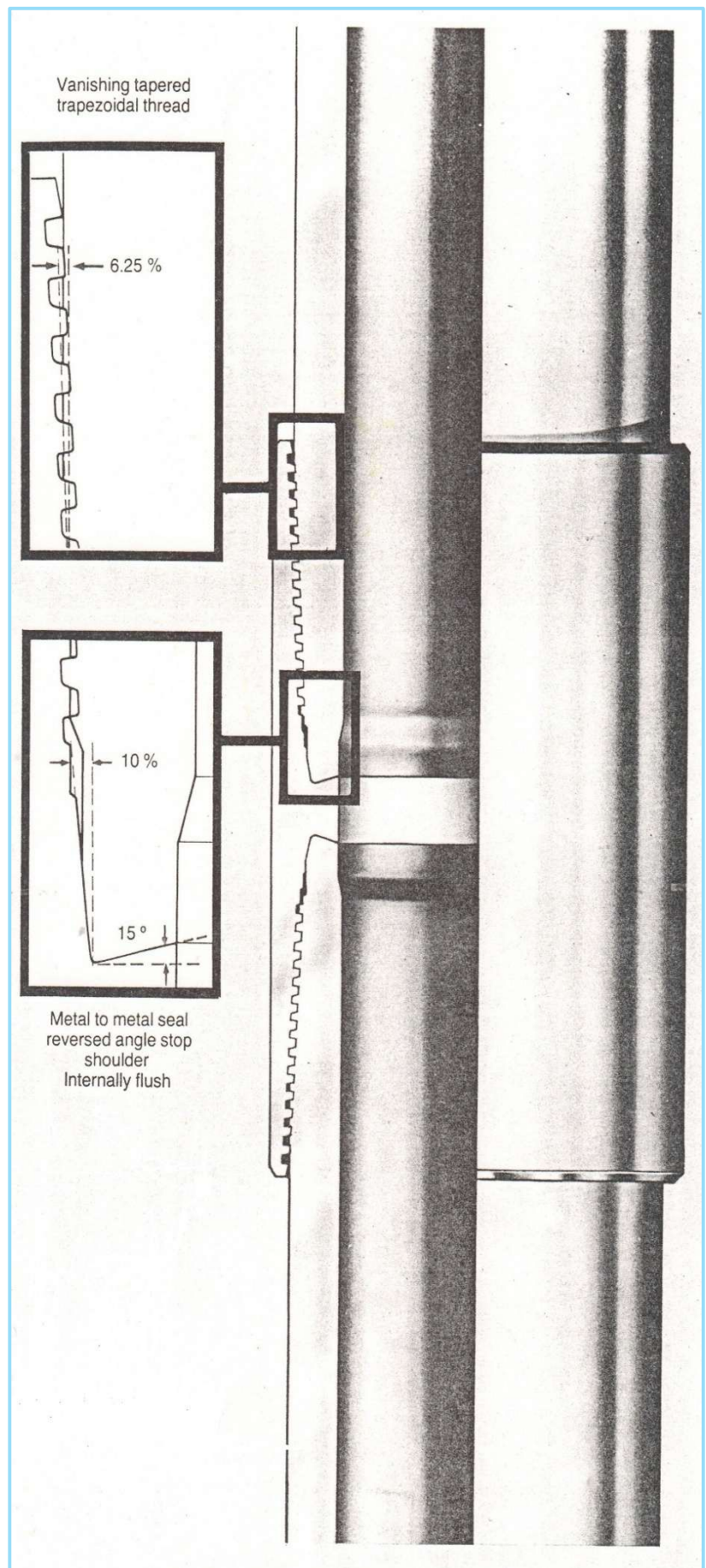
Size 5" and Above

5 threads per inch

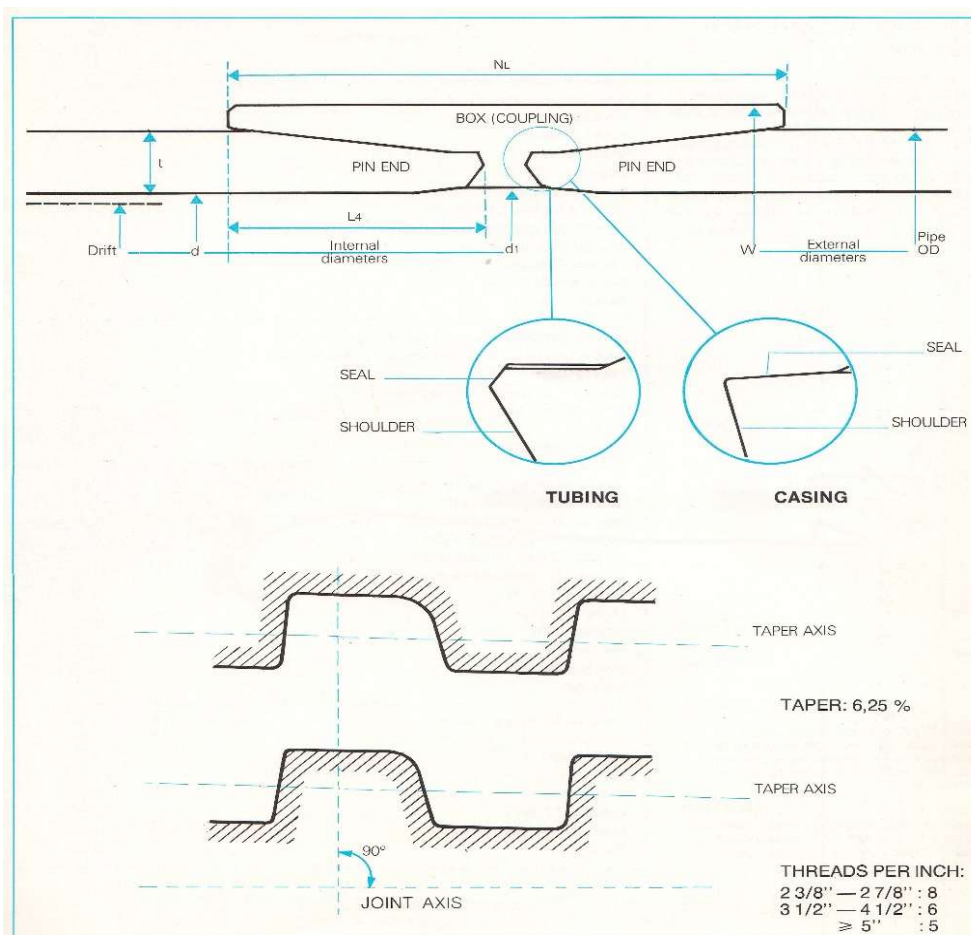
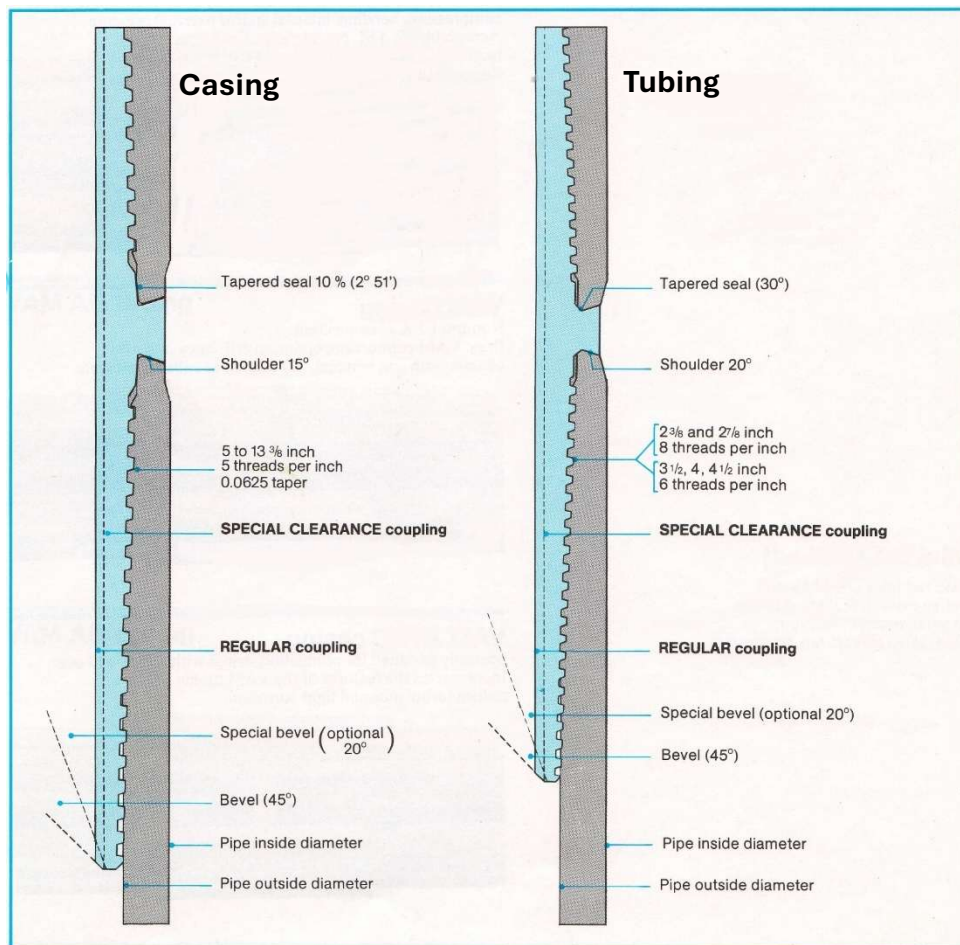
Shoulder 15°

Seal Taper : 10% (2° 51')

Shoulder : 20°



PJE Casing and Tubing Connection Geometry Design



Dimensional Characteristics

Pipe (Tubing Sizes)												
Outside Diameter (D)	Nominal Weight		Wall thickness (t)		Nominal Internal Diameter (d)		Drift Diameter		Critical Cross-Section Area		Engagement Thread Length (L ₄)	
In. (mm)	lb/ft	kg/m	in.	mm	in.	mm	in.	mm	in ²	cm ²	in	mm
2 3/8 (60.3)	4.6	6.9	0.190	4.83	1.995	50.67	1.901	48.29	1.304	8.41	2.205	56.0
	5.1	7.6	0.218	5.54	1.939	49.25	1.845	46.87	1.477	9.53	2.205	56.0
	5.8	8.6	0.254	6.45	1.867	47.42	1.773	45.04	1.692	10.92	2.205	56.0
2 7/8 (73.0)	6.4	9.5	0.217	5.51	2.441	62.00	2.347	59.62	1.812	11.69	2.520	64.0
	7.7	11.5	0.276	7.01	2.323	59.00	2.229	56.62	2.254	14.53	2.520	64.0
	8.6	12.8	0.308	7.82	2.259	57.38	2.165	55.00	2.484	16.02	2.520	64.0
	9.8	14.6	0.362	9.19	2.151	54.64	2.057	52.26	2.858	18.43	2.520	64.0
3 1/2 (88.9)	7.7	11.5	0.216	5.49	3.068	77.93	2.943	74.75	2.228	14.37	2.992	76.0
	9.2	13.7	0.254	6.45	2.992	76.00	2.867	72.82	2.590	16.71	2.992	76.0
	10.2	15.2	0.289	7.34	2.922	74.22	2.797	71.04	2.915	18.80	2.992	76.0
	12.7	18.9	0.375	9.53	2.750	69.85	2.625	66.67	3.682	23.75	2.992	76.0
	13.7	20.4	0.413	10.49	2.674	67.92	2.549	64.74	4.005	25.84	2.992	76.0
	14.7	21.9	0.450	11.43	2.600	66.04	2.475	62.86	4.312	27.81	2.992	76.0
4 (101.6)	9.5	14.2	0.226	5.74	3.548	90.12	3.423	86.94	2.680	17.28	3.268	83.0
	10.9	16.2	0.262	6.65	3.476	88.29	3.351	85.11	3.077	19.84	3.268	83.0
	13.0	19.4	0.330	8.38	3.340	84.84	3.215	81.66	3.805	24.54	3.268	83.0
	14.8	22.0	0.380	9.65	3.240	82.30	3.115	79.12	4.322	27.88	3.268	83.0
	16.5	24.6	0.430	10.92	3.140	79.76	3.015	76.58	4.823	31.11	3.268	83.0
4 1/2 (114.3)	12.6	18.8	0.271	6.88	3.958	100.53	3.833	97.35	3.600	23.22	3.661	93.0

**Coupling
(Tubing Sizes)**

Outside Diameter	Nominal Weigh		Coupling External Diameter				Length (N _L)		Internal Diameter (d ₁)		Critical section Area Regular (Special)	
			Regular (W)		Special Clearance (W _{sc})							
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in	mm	In ²	cm ²
2 3/8 (60.3)	4.6	6.9	2.697	68.5	2.618	66.5	4.921	125.0	1.929	49.0	1.479 (1.084)	9.54 (6.99)
	5.1	7.6	2.697	68.5	2.618	66.5			1.929	49.0	1.479 (1.084)	9.54 (6.99)
	5.8	8.6	2.776	70.5	2.697	68.5			1.929	49.0	1.820 (1.412)	11.74 (9.11)
2 7/8 (73.0)	6.4	9.5	3.197	81.2	3.150	80.0	5.551	141.0	2.374	60.3	1.859 (1.545)	12.00 (9.97)
	7.7	11.5	3.327	84.5	3.264	82.9			2.374	60.3	2.528 (2.120)	16.31 (13.68)
	8.5	12.8	3.327	84.5	3.264	82.9			2.323	59.0	2.528 (2.120)	16.31 (13.68)
	9.8	14.6	3.500	88.9	3.327	84.5			2.268	57.6	3.461 (2.446)	22.33 (15.78)
3 1/2 (88.9)	7.7	11.5	3.803	96.6	--	--	6.496	165.0	2.972	75.5	2.276	14.68
	9.2	13.7	3.862	98.1	3.795	96.4			2.972	75.5	2.633 (2.134)	16.98 (13.77)
	10.2	15.2	3.917	99.5	3.854	97.9			2.972	75.5	2.971 (2.489)	19.17 (16.06)
	12.7	18.9	4.035	102.5	3.957	100.5			2.925	74.3	3.711 (3.117)	23.94 (20.11)
	13.7	20.4	4.138	105.1	4.028	102.3			2.835	72.0	4.371 (3.561)	28.20 (22.98)
	14.7	21.9	4.138	105.1	4.028	102.3			2.835	72.0	4.371 (3.561)	28.20 (22.98)
4 (101.6)	9.5	14.2	4.327	109.9	--	--	7.047	179.0	3.457	87.8	2.847	18.37
	10.9	16.2	4.366	110.9	4.315	109.6			3.457	87.8	3.117 (2.660)	20.11 (17.16)
	13.0	19.4	4.469	113.5	4.358	110.7			3.457	87.8	3.830 (2.955)	24.71 (19.06)
	14.8	22.0	4.606	117.0	4.461	113.3			3.346	85.0	4.815 (3.664)	31.07 (23.64)
	16.5	24.6	4.606	117.0	--	--			3.346	85.0	4.815	31.07
4 1/2 (114.3)	12.6	18.8	4.862	123.5	4.803	122.0	7.835	199.0	3.984	101.2	3.653 (3.084)	23.57 (19.90)

Pipe (Casing Sizes)												
Outside Diameter (D)	Nominal Weight		Wall thickness (t)		Internal Diameter (d)		Drift Diameter		Critical Cross-Section Area		Engagement Thread Length (L ₄)	
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in ²	cm ²	in	mm
4 1/2 (114.3)	10.5	15.6	0.224	5.69	4.052	102.92	3.927	99.74	3.009	19.41	3.661	93.0
	11.6	17.3	0.250	6.35	4.000	101.60	3.875	98.42	3.338	21.53	3.661	93.0
	13.5	20.1	0.290	7.37	3.920	99.57	3.795	96.39	3.836	24.74	3.661	93.0
	15.1	22.5	0.337	8.56	3.826	97.18	3.701	94.00	4.407	28.43	3.661	93.0
	16.9	25.2	0.380	9.65	3.740	95.00	3.615	91.82	4.918	31.73	3.661	93.0
	18.8	28.0	0.430	10.92	3.640	92.46	3.515	89.28	5.498	35.47	3.661	93.0
	21.6	32.2	0.500	12.70	3.500	88.90	3.375	85.72	6.283	40.53	3.661	93.0
5 (127.0)	13.0	19.4	0.253	6.43	4.494	114.15	4.369	110.97	3.773	24.34	4.252	108.0
	15.0	22.3	0.296	7.52	4.408	111.96	4.283	108.78	4.374	28.22	4.252	108.0
	18.0	26.8	0.362	9.19	4.276	108.61	4.151	105.43	5.275	34.02	4.252	108.0
	20.8	31.0	0.422	10.72	4.156	105.56	4.031	102.38	6.069	39.15	4.252	108.0
	21.4	31.9	0.437	11.10	4.126	104.80	4.001	101.62	6.264	40.41	4.252	108.0
	23.2	34.6	0.478	12.14	4.044	102.72	3.919	99.54	6.791	43.81	4.252	108.0
	24.2	36.0	0.500	12.70	4.000	101.60	3.875	98.42	7.069	45.60	4.252	108.0
5 1/2 (127.0)	15.5	23.1	0.275	6.99	4.950	125.73	4.825	122.55	4.514	29.12	4.331	110.0
	17.0	25.3	0.304	7.72	4.892	124.26	4.767	121.08	4.962	32.01	4.331	110.0
	20.0	29.8	0.361	9.17	4.778	121.36	4.653	118.18	5.825	37.60	4.331	110.0
	23.0	34.3	0.415	10.54	4.670	118.62	4.545	115.44	6.630	42.77	4.331	110.0
	26.8	39.9	0.476	12.09	4.548	115.52	4.423	112.34	7.513	48.47	4.331	110.0
6 5/8 (168.3)	20.0	29.8	0.288	7.32	6.049	153.64	5.924	150.46	5.734	36.99	4.528	115.0
	24.0	35.7	0.352	8.94	5.921	153.39	5.796	147.21	6.937	44.75	4.528	115.0
	28.0	41.7	0.417	10.59	5.791	147.09	5.666	143.91	8.133	52.46	4.528	115.0
	32.0	47.7	0.475	12.07	5.675	144.15	5.550	140.97	9.177	59.20	4.528	115.0
7 (177.8)	23.0	34.3	0.317	8.05	6.366	161.70	6.241	158.52	6.655	42.93	4.724	120.0
	26.0	38.7	0.362	9.19	6.276	159.41	6.151	156.23	7.549	48.70	4.724	120.0
	29.0	43.2	0.408	10.36	6.184	157.07	6.059	153.89	8.449	54.51	4.724	120.0
	32.0	47.7	0.453	11.51	6.094	154.79	5.969	151.61	9.317	60.11	4.724	120.0
	35.0	52.1	0.498	12.65	6.004	152.50	5.879	149.32	10.172	65.52	4.724	120.0
	38.0	56.6	0.540	13.72	5.920	150.37	5.795	147.19	10.959	70.70	4.724	120.0
	41.0	61.1	0.590	14.99	5.820	147.83	5.695	144.65	11.881	76.65	4.724	120.0

Pipe (Casing Sizes)												
Outside Diameter (D)	Nominal Weight		Wall thickness (t)		Internal Diameter (d)		Drift Diameter		Critical Cross-Section Area		Engagement Thread Length (L 4)	
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in²	cm²	in	mm
7 5/8 (193.7)	26.4	39.3	0.328	8.33	6.969	177.01	6.844	173.83	7.519	48.51	4.921	125.0
	29.7	44.2	0.375	9.53	6.875	174.63	6.750	171.45	8.541	55.10	4.921	125.0
	33.7	50.2	0.430	10.92	6.765	171.83	6.640	168.65	9.720	62.70	4.921	125.0
	35.8	53.3	0.465	11.81	6.695	170.05	6.570	166.87	10.460	67.48	4.921	125.0
	39.0	58.1	0.500	12.70	6.625	168.28	6.500	165.10	11.192	72.20	4.921	125.0
	42.8	63.8	0.562	14.27	6.501	165.13	6.376	161.95	12.470	80.45	4.921	125.0
8 5/8 (219.1)	28.0	41.7	0.304	7.72	8.017	203.63	7.892	200.45	7.947	51.27	5.039	128.0
	32.0	47.7	0.352	8.94	7.921	201.19	7.796	198.01	9.149	59.02	5.039	128.0
	36.0	53.6	0.400	10.16	7.825	198.76	7.700	195.58	10.336	66.68	5.039	128.0
	40.0	59.6	0.450	11.43	7.725	196.22	7.600	193.04	11.557	74.56	5.039	128.0
	44.0	65.5	0.500	12.70	7.625	193.68	7.500	190.50	12.763	82.33	5.039	128.0
	49.0	73.0	0.557	14.15	7.511	190.78	7.386	187.60	14.118	91.08	5.039	128.0
	52.0	77.5	0.595	15.11	7.435	188.85	7.310	185.67	15.010	96.83	5.039	128.0
9 5/8 (244.5)	36.0	53.6	0.352	8.94	8.921	226.59	8.765	222.62	10.254	66.15	5.039	128.0
	40.0	59.6	0.395	10.03	8.835	224.41	8.679	220.44	11.454	73.89	5.039	128.0
	43.5	64.8	0.435	11.05	8.755	222.38	8.599	218.41	12.559	81.02	5.039	128.0
	47.0	70.0	0.472	11.99	8.681	220.50	8.525	216.53	13.572	87.56	5.039	128.0
	53.5	79.7	0.545	13.84	8.535	216.79	8.379	212.82	15.546	100.2	5.039	128.0
	58.4	87.0	0.595	15.11	8.435	214.25	8.279	210.28	16.879	108.8	5.039	128.0
	59.4	88.5	0.609	15.47	8.407	213.54	8.251	209.57	17.250	111.2	5.039	128.0
10 3/4 (273.1)	40.5	60.3	0.350	8.89	10.050	255.27	9.894	251.30	11.435	73.77	5.039	128.0
	45.5	67.8	0.400	10.16	9.950	252.73	9.794	248.78	13.008	83.91	5.039	128.0
	51.0	76.0	0.450	11.43	9.850	250.19	9.594	246.22	14.561	93.94	5.039	128.0
	55.5	82.7	0.495	12.57	9.760	247.90	9.604	243.93	15.947	102.8	5.039	128.0
	60.7	90.4	0.545	13.84	9.660	245.36	9.504	241.39	17.473	112.7	5.039	128.0
	65.7	97.9	0.595	15.11	9.560	242.82	9.404	238.85	18.982	122.4	5.039	128.0
11 3/4 (298.5)	47.0	70.0	0.375	9.53	11.000	279.40	10.844	275.43	13.401	86.45	5.039	128.0
	54.0	80.4	0.435	11.05	10.880	276.35	10.724	272.38	15.463	99.76	5.039	128.0
	60.0	89.4	0.489	12.42	10.772	273.61	10.616	269.64	17.300	111.6	5.039	128.0
	65.0	96.8	0.534	13.56	10.682	271.32	10.526	267.35	18.816	121.3	5.039	128.0
	71.0	105.8	0.582	14.78	10.586	268.88	10.430	264.91	20.420	131.7	5.039	128.0

Pipe (Casing Sizes)												
Outside Diameter (D)	Nominal Weight		Wall thickness (t)		Internal Diameter (d)		Drift Diameter		Critical Cross-Section Area		Engagement Thread Length (L ₄)	
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in ²	cm ²	in	mm
13 3/8 (339.7)	54.5	81.2	0.380	9.65	12.615	320.42	12.459	316.45	15.513	100.0	5.039	128.0
	61.0	90.9	0.430	10.92	12.515	317.88	12.359	313.91	17.487	112.8	5.039	128.0
	68.0	101.3	0.480	12.19	12.415	315.34	12.259	311.37	19.445	125.4	5.039	128.0
	72.0	107.2	0.514	13.06	12.347	313.61	12.191	309.64	20.768	133.9	5.039	128.0
	77.0	114.7	0.550	13.97	12.275	311.79	12.119	307.82	22.160	142.9	5.039	128.0
	80.7	120.2	0.580	14.73	12.215	310.26	12.059	306.29	23.314	150.4	5.039	128.0
	85.0	126.6	0.608	15.44	12.159	308.84	12.003	304.87	24.386	157.3	5.039	128.0

Coupling (Casing Sizes)												
Outside Diameter	Nominal Weigh		Coupling External Diameter				Length (N _L)		Internal Diameter (d _i)		Critical section Area Regular (Special)	
			Regular (W)		Special Clearance (W _{sc})							
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in	mm	ln²	cm²
4 1/2 (114.3)	10.5	15.6	4.862	123.5	4.803	122.0	7.835	199.0	3.984	101.2	3.653 (3.084)	23.57 (19.90)
	11.6	17.3	4.862	123.5	4.803	122.0			3.984	101.2	3.653 (3.084)	23.57 (19.90)
	13.5	20.1	4.961	126.0	4.803	122.0			3.933	99.9	4.415 (3.683)	28.48 (23.76)
	15.1	22.5	4.961	126.0	4.882	124.0			3.933	99.9	4.415 (3.683)	28.48 (23.76)
	16.9	25.2	5.106	129.7	--	--			3.854	97.9	5.570	35.94
	18.8	28.0	5.106	129.7	--	--			3.854	97.9	5.570	35.94
	21.6	32.2	5.201	132.1	--	--			3.854	97.9	6.338	40.89
5 (127.0)	13.0	19.4	5.563	141.3	5.390	136.9	9.125	231.8	4.488	114.0	5.471 (3.843)	35.29 (24.79)
	15.0	22.3	5.563	141.3	5.390	136.9			4.441	112.0	5.471 (3.843)	35.29 (24.79)
	18.0	26.8	5.563	141.3	5.390	136.9			4.350	110.5	5.471 (3.843)	35.29 (24.79)
	20.8	31.0	5.563	141.3	5.390	136.9			4.350	110.5	5.471 (3.843)	35.29 (24.79)
	21.4	31.9	5.563	141.3	5.390	136.9			4.350	110.5	5.471 (3.843)	35.29 (24.79)
	23.2	34.6	5.563	141.3	5.390	136.9			4.350	110.5	5.471 (3.843)	35.29 (24.79)
	24.2	36.0	5.563	141.3	5.390	136.9			4.350	110.5	5.471 (3.843)	35.29 (24.79)
5 1/2 (139.7)	15.5	23.1	6.050	153.7	5.890	149.6	9.250	235.0	4.941	125.5	5.935 (4.283)	38.29 (27.63)
	17.0	25.3	6.050	153.7	5.890	149.6			4.882	124.0	5.935 (4.283)	38.29 (27.63)
	20.0	29.8	6.050	153.7	5.890	149.6			4.882	124.0	5.935 (4.283)	38.29 (27.63)
	23.0	34.3	6.050	153.7	5.890	149.6			4.882	124.0	5.935 (4.283)	38.29 (27.63)
	26.8	39.9	6.050	153.7	5.890	149.6			4.882	124.0	5.935 (4.283)	38.29 (27.63)
6 5/8 (168.3)	20.0	29.8	7.390	187.7	7.016	178.2	9.646	245.5	6.043	153.5	9.632 (5.217)	62.14 (33.66)
	24.0	35.7	7.390	187.7	7.016	178.2			5.984	152.0	9.632 (5.217)	62.14 (33.66)
	28.0	41.7	7.390	187.7	7.016	178.2			5.984	152.0	9.632 (5.217)	62.14 (33.66)
	32.0	47.7	7.390	187.7	7.016	178.2			5.984	152.0	9.632 (5.217)	62.14 (33.66)
7 (177.8)	23.0	34.3	7.657	194.5	7.390	187.7	10.040	255.0	6.358	161.5	9.029 (5.676)	58.25 (36.62)
	26.0	38.7	7.657	194.5	7.390	187.7			6.358	161.5	9.029 (5.676)	58.25 (36.62)
	29.0	43.2	7.657	194.5	7.390	187.7			6.358	161.5	9.029 (5.676)	58.25 (36.62)
	32.0	47.7	7.657	194.5	7.390	187.7			6.358	161.5	9.029 (5.676)	58.25 (36.62)
	35.0	52.1	7.657	194.5	7.390	187.7			6.358	161.5	9.029 (5.676)	58.25 (36.62)
	38.0	56.6	7.657	194.5	7.390	187.7			6.358	161.5	9.029 (5.676)	58.25 (36.62)
	41.0	61.1	7.657	194.5	7.390	187.7			6.358	161.5	9.029 (5.676)	58.25 (36.62)

Coupling (Casing Sizes)												
Outside Diameter	Nominal Weigh		Coupling External Diameter				Length (N _L)		Internal Diameter (d _i)		Critical section Area	
			Regular (W)		Special Clearance (W _{sc})						Regular (Special)	
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in	mm	In ²	cm ²
7 5/8 (193.7)	26.4	39.3	8.500	215.9	8.142	206.8	10.375	263.5	6.969	177.0	12.805 (7.911)	82.61 (51.04)
	29.7	44.2	8.500	215.9	8.142	206.8			6.969	177.0	12.805 (7.911)	82.61 (51.04)
	33.7	50.2	8.500	215.9	8.142	206.8			6.969	177.0	12.805 (7.911)	82.61 (51.04)
	35.8	53.3	8.500	215.9	8.142	206.8			6.969	177.0	12.805 (7.911)	82.61 (51.04)
	39.0	58.1	8.500	215.9	8.142	206.8			6.969	177.0	12.805 (7.911)	82.61 (51.04)
	42.8	63.8	8.500	215.9	8.142	206.8			6.969	177.0	12.805 (7.911)	82.61 (51.04)
8 5/8 (219.1)	28.0	41.7	9.626	244.5	9.142	232.2	10.625	269.9	7.992	203.0	16.352 (8.976)	105.50 (57.91)
	32.0	47.7	9.626	244.5	9.142	232.2			7.992	203.0	16.352 (8.976)	105.50 (57.91)
	36.0	53.6	9.626	244.5	9.142	232.2			7.992	203.0	16.352 (8.976)	105.50 (57.91)
	40.0	59.6	9.626	244.5	9.142	232.2			7.992	203.0	16.352 (8.976)	105.50 (57.91)
	44.0	65.5	9.626	244.5	9.142	232.2			7.992	203.0	16.352 (8.976)	105.50 (57.91)
	49.0	73.0	9.626	244.5	9.142	232.2			7.992	203.0	16.352 (8.976)	105.50 (57.91)
	52.0	77.5	9.626	244.5	9.142	232.2			7.992	203.0	16.352 (8.976)	105.50 (57.91)
9 5/8 (244.5)	36.0	53.6	10.626	269.9	10.142	257.6	10.625	269.9	8.976	228.0	18.155 (9.994)	117.13 (64.48)
	40.0	59.6	10.626	269.9	10.142	257.6			8.976	228.0	18.155 (9.994)	117.13 (64.48)
	43.5	64.8	10.626	269.9	10.142	257.6			8.976	228.0	18.155 (9.994)	117.13 (64.48)
	47.0	70.0	10.626	269.9	10.142	257.6			8.976	228.0	18.155 (9.994)	117.13 (64.48)
	53.5	79.7	10.626	269.9	10.142	257.6			8.976	228.0	18.155 (9.994)	117.13 (64.48)
	58.4	87.0	10.626	269.9	10.142	257.6			8.976	228.0	18.155 (9.994)	117.13 (64.48)
	59.4	88.5	10.626	269.9	10.142	257.6			8.976	228.0	18.155 (9.994)	117.13 (64.48)
10 3/4 (273.1)	40.5	60.3	11.748	298.4	11.268	286.2	10.625	269.9	10.118	257.0	20.179 (11.206)	130.19 (72.29)
	45.5	67.8	11.748	298.4	11.268	286.2			10.118	257.0	20.179 (11.206)	130.19 (72.29)
	51.0	76.0	11.748	298.4	11.268	286.2			10.118	257.0	20.179 (11.206)	130.19 (72.29)
	55.5	82.7	11.748	298.4	11.268	286.2			10.118	257.0	20.179 (11.206)	130.19 (72.29)
	60.7	90.4	11.748	298.4	11.268	286.2			10.118	257.0	20.179 (11.206)	130.19 (72.29)
	65.7	97.9	11.748	298.4	11.268	286.2			10.118	257.0	20.179 (11.206)	130.19 (72.29)
11 3/4 (298.5)	47.0	70.0	12.748	323.8	12.268	311.6	10.625	269.9	11.102	282.0	21.982 (12.230)	141.82 (78.90)
	54.0	80.4	12.748	323.8	12.268	311.6			11.102	282.0	21.982 (12.230)	141.82 (78.90)
	60.0	89.4	12.748	323.8	12.268	311.6			11.102	282.0	21.982 (12.230)	141.82 (78.90)
	65.0	96.8	12.748	323.8	12.268	311.6			11.102	282.0	21.982 (12.230)	141.82 (78.90)

**Coupling
(Casing Sizes)**

Outside Diameter	Nominal Weigh		Coupling External Diameter				Length (N _L)		Internal Diameter (d ₁)		Critical section Area Regular (Special)	
			Regular (W)		Special Clearance (W _{sc})							
In. (mm)	lb/ft	Kg/m	in.	mm	in.	mm	in.	mm	in	mm	In ²	cm ²
11 3/4 (298.5)	71.0	105.8	12.748	323.8	--	--	10.625	269.9	11.102	282.0	21.982	108
13 3/8 (339.7)	54.5	81.2	14.374	365.1	14.126	358.8	10.625	269.9	12.677	322.0	24.914 (19.356)	160.74 (124.88)
	61.0	90.9	14.374	365.1	14.126	358.8			12.677	322.0	24.914 (19.356)	160.74 (124.88)
	68.0	101.3	14.374	365.1	14.126	358.8			12.677	322.0	24.914 (19.356)	160.74 (124.88)
	72.0	107.2	14.374	365.1	14.126	358.8			12.677	322.0	24.914 (19.356)	160.74 (124.88)
	77.0	114.7	14.374	365.1	14.126	358.8			12.677	322.0	24.914 (19.356)	160.74 (124.88)
	80.7	120.2	14.374	365.1	14.126	358.8			12.677	322.0	24.914 (19.356)	160.74 (124.88)
	85.0	126.6	14.374	365.1	14.126	358.8			12.677	322.0	24.914 (19.356)	160.74 (124.88)

PJE Pressure Ratings

Tubing Sizes												
Outside Diameter	Nominal Weight	Wall Thickness	Collapse Pressure					Minimum Internal Yield Pressure				
			K55	C75	L/N80	C95	P105	K55	C75	L/N80	C95	P105
In.	lb/ft	In. (mm)	psi					psi				
2 3/8	4.6	0.190 (4.83)	8100	11040	11780	13980	15460	7700	10500	11200	13300	14700
	5.1	0.218 (5.54)	9170	12500	13340	15840	17510	8835	12047	12851	15260	16866
	5.8	0.254 (6.45)	10510	11330	15280	18150	20060	10294	14037	14973	17780	19652
2 7/8	6.4	0.217 (5.51)	7680	10470	11170	12930	14010	7265	9907	10567	12548	13869
	7.7	0.276 (7.01)	9550	13020	13980	16490	18220	9240	12600	13440	15960	17640
	8.6	0.308 (7.82)	10520	14350	15300	18170	20090	10311	14061	14998	17810	19685
	9.8	0.362 (9.19)	12110	16510	17610	20910	23110	12119	16526	17628	20933	23137
3 1/2	7.7	0.216 (5.49)	5970	7540	7870	8840	9440	5940	8100	8640	10260	11340
	9.2	0.254 (6.45)	7400	10040	10530	12060	13050	6985	9525	10160	12065	13335
	10.2	0.289 (7.34)	8330	11360	12120	14390	15910	7948	10838	11560	13728	15173
	12.7	0.375 (9.53)	10520	14350	15310	18180	20090	10313	14063	15000	17813	19688
	13.7	0.413 (10.49)	11450	15610	16650	19770	21860	11358	15488	16520	19618	21683
	14.7	0.450 (11.43)	12300	16770	17890	21250	23480	12375	16875	18000	21375	23625
4	9.5	0.226 (5.74)	5110	6350	6590	7290	7710	5438	7416	7910	9393	10382
	10.9	0.262 (6.65)	6590	8410	8800	9960	10700	6304	8597	9170	10889	12036
	13.0	0.330 (8.38)	8330	11350	12110	11380	15900	7941	10828	11550	13716	15159
	14.8	0.380 (9.65)	9460	12900	13760	16340	18050	9144	12469	13300	15794	17456
	16.5	0.430 (10.92)	10550	14390	15350	18230	20150	10347	14109	15050	17872	19753
4 1/2	12.6	0.271 (6.88)	5720	7200	7500	8400	8950	5796	7904	8431	10012	11066

Casing Sizes																
Outside Diameter	Nominal Weight	Wall Thickness	Collapse Pressure							Minimum Internal Yield Pressure						
			K55	C75	L/N80	C95	P110	Q125	V150	K55	C75	L/N80	C95	P110	Q125	V150
In.	lb/ft	In. (mm)	psi							psi						
4 1/2	10.5	0.224 (5.69)	4010	4800	4930	5300	5540	--	--	4791	6533	6969	8276	9582	--	--
	11.6	0.250 (6.35)	4960	6130	6350	7010	7560	--	--	5347	7292	7778	9236	10694	--	--
	13.5	0.290 (7.37)	6420	8170	8540	9650	10670	11610	--	6203	8458	9022	10714	12406	14097	--
	15.1	0.337 (8.56)	7620	10390	11080	12750	14320	15840	18110	7208	9829	10484	12450	14416	16382	19658
	16.9	0.380 (9.65)	8500	11600	12380	14690	17010	19330	22890	8128	11083	11822	14039	16256	18472	22167
	18.8	0.430 (10.92)	9510	12960	13830	16420	19010	21610	25930	9197	12542	13378	15886	18394	20903	25083
	21.6	0.500 (12.70)	10860	14810	15800	18770	21730	24690	29630	10694	14583	15556	18472	21389	24306	29167
5	13.0	0.253 (6.43)	4140	4990	5140	5540	5820	--	--	4870	6641	7084	8412	9741	--	--
	15.0	0.296 (7.52)	5550	6970	7250	8090	8830	9490	10260	5698	7770	8288	9842	11396	12950	15540
	18.0	0.362 (9.19)	7390	10000	10490	12010	13450	14830	16860	6969	9503	10136	12037	13937	15838	19005
	20.8	0.422 (10.72)	8500	11590	12360	14680	17000	19320	22870	8124	11078	11816	14032	16247	18463	22155
	21.4	0.437 (11.10)	8770	11960	12760	15150	17550	19940	23930	8412	11471	12236	14530	16825	19119	22943
	23.2	0.478 (12.14)	9510	12970	13830	16430	19020	21620	25940	9202	12548	13384	15894	18403	20913	25095
	24.2	0.500 (12.70)	9900	13500	14400	17100	19800	22500	27000	9625	13125	14000	16625	19250	21875	26250
5 1/2	15.5	0.275 (6.99)	4040	4850	4990	5360	5610	--	--	4813	6563	7000	8313	9625	--	--
	17.0	0.304 (7.72)	4910	6070	6280	6930	7460	7900	8300	5320	7255	7738	9189	10640	12091	14509
	20.0	0.361 (9.17)	6610	8440	8830	10000	11080	12100	13480	6318	8615	9189	10912	12635	1458	17230
	23.0	0.415 (10.54)	7670	10460	11160	12920	14520	16070	18390	7263	9903	10564	12544	14525	16506	19807
	26.8	0.476 (12.09)	8700	11860	12650	15020	17320	19760	23720	8330	11359	12116	14388	16660	18932	22718
6 5/8	20.0	0.288 (7.32)	2970	3360	3480	3800	4040	--	--	4184	5706	6086	7227	8368	--	--
	24.0	0.352 (8.94)	4560	5570	5760	6290	6710	7030	7350	5114	6974	7438	8833	10228	11623	13947
	28.0	0.417 (10.59)	6170	7830	8170	9200	10140	11000	12130	6058	8261	8812	10464	12117	13769	16523
	32.0	0.475 (12.07)	7320	9830	10320	11800	13200	14550	16510	6901	9410	10038	11920	13802	15684	18821

Casing Sizes																
Outside Diameter	Nominal Weight	Wall Thickness	Collapse Pressure							Minimum Internal Yield Pressure						
			K55	C75	L/N80	C95	P110	Q125	V150	K55	C75	L/N80	C95	P110	Q125	V150
In.	lb/ft	In. (mm)	psi							psi						
7	23.0	0.317 (80.5)	3270	3770	3830	4150	4450	--	--	4359	5944	6340	7529	8718	--	--
	26.0	0.362 (9.19)	4320	5250	5410	5870	6210	6460	6890	4978	6788	7240	8598	9955	11313	13575
	29.0	0.408 (10.36)	5400	6760	7020	7820	8510	9120	9800	5610	7650	8160	9690	11220	12750	15300
	32.0	0.453 (11.51)	6460	8230	8600	9730	10760	11720	13020	6229	8494	9060	10759	12458	14156	16988
	35.0	0.498 (12.65)	7270	9710	10180	11640	13010	14330	16230	6848	9338	9960	11828	13695	15563	18675
	38.0	0.540 (13.72)	7830	10680	11390	13420	15110	16760	19240	7425	10125	10800	12825	14850	16875	20250
	41.0	0.590 (14.99)	8490	11580	12350	14660	16980	19300	22810	8113	11063	11800	14013	16225	18438	22125
7 5/8	26.4	0.328 (8.33)	2890	3280	3400	3710	3930	--	--	4140	5646	6022	7151	8281	--	--
	29.7	0.375 (9.53)	3910	4670	4790	5120	5340	5670	6060	4734	6455	6885	8176	9467	10758	12910
	33.7	0.430 (10.92)	5090	6320	6560	7260	7850	8350	8860	5428	7402	7895	9375	10856	12336	14803
	35.8	0.465 (11.81)	5850	7830	7690	8620	9460	10210	11150	5870	8004	8538	10139	11739	13340	16008
	39.0	0.500 (12.70)	--	8430	8810	9980	11060	12070	13450	-	8607	9180	10902	12623	14344	17213
	42.8	0.562 (14.27)	--	10240	10810	12400	13910	15360	17520	--	9674	10319	12253	14188	16123	19348
8 5/8	28.0	0.304 (7.72)	1880	2120	2160	2210	2210	--	--	3392	4626	4934	5860	6785	--	--
	32.0	0.352 (8.94)	2530	2950	3050	3280	3430	3470	3470	3928	5357	5714	6785	7856	8928	10713
	36.0	0.400 (10.16)	3450	4020	4100	4360	4700	4940	5150	4464	6087	6493	7710	8928	10145	12174
	40.0	0.450 (11.43)	4400	5350	5520	6010	6380	6640	7040	5022	6848	7304	8674	10043	11413	13696
	44.0	0.500 (12.70)	5350	6680	6950	7730	8400	8990	9650	5580	7609	8116	9638	11159	12681	15217
	49.0	0.557 (14.15)	--	8200	8570	9690	10710	11670	12950	--	8476	9041	10736	12432	14127	16952
	52.0	0.595 (15.11)	--	9210	9650	11000	12260	13450	15160	--	9054	9658	11469	13280	15091	18109
9 5/8	36.0	0.352 (8.94)	2020	2320	2370	2460	2470	2470	2470	3520	4800	5120	6080	7040	8000	9600
	40.0	0.395 (10.03)	2570	2980	3090	3330	3480	3530	3530	3950	5386	5745	6823	7900	8977	10773
	43.5	0.435 (11.05)	3520	3750	3810	4130	4430	4620	4750	4350	5932	6327	7514	8700	9886	11864

Casing Sizes																
Outside Diameter	Nominal Weight	Wall Thickness	Collapse Pressure							Minimum Internal Yield Pressure						
			K55	C75	L/N80	C95	P110	Q125	V150	K55	C75	L/N80	C95	P110	Q125	V150
In.	lb/ft	In. (mm)	psi							psi						
9 5/8	47.0	0.472 (11.99)	3880	4630	4750	5080	5310	5630	6020	4720	6436	6865	8153	9440	10727	12873
	53.5	0.545 (13.84)	--	6380	6620	7330	7930	8440	8970	--	7432	7927	9414	10900	12386	14864
	58.4	0.595 (15.11)	--	7570	7890	8870	9750	10550	11570	--	8114	8655	10277	11900	13523	16227
	59.4	0.609 (15.47)	--	7900	8250	9300	10260	11140	12300	--	8305	8858	10519	12180	13841	16609
10 3/4	40.5	0.350 (8.89)	1580	1720	1730	1730	1730	1730	1730	3134	4273	4558	5413	6267	7122	8547
	45.5	0.400 (10.16)	2090	2410	2480	2580	2610	2610	2610	3581	4884	5209	6186	7163	8140	9767
	51.0	0.450 (11.43)	2700	3100	3220	3490	3670	3750	3750	4029	5494	5860	6959	8058	9157	10988
	55.5	0.495 (12.57)	3390	3950	4020	4300	4630	4850	5040	4432	6044	6447	7655	8864	10073	12087
	60.7	0.545 (13.84)	--	5020	5160	5570	5860	6070	6360	--	6654	7098	8428	9759	11090	13308
	65.7	0.595 (15.11)	--	6080	6300	6950	7490	7930	8330	--	7265	7749	9202	10655	12108	14529
11 3/4	47.0	0.375 (9.53)	1510	1620	1630	1630	1630	1630	1630	3072	4189	4468	5306	6144	6981	8378
	54.0	0.435 (11.05)	2070	2380	2450	2540	2570	2570	2580	3563	4859	5183	6155	7127	8098	9718
	60.0	0.489 (12.42)	2660	3070	3180	3440	3610	3680	3680	4006	5462	5826	6919	8011	9104	10924
	65.0	0.534 (13.56)	3290	3810	3870	4180	4490	4690	4850	4374	5965	6363	7556	8749	9941	11930
13 3/8	54.5	0.380 (9.65)	1130	1140	1140	1140	1140	1140	1140	2735	3729	3978	4723	5469	6215	7458
	61.0	0.430 (10.92)	1540	1660	1670	1670	1670	1670	1670	3094	4220	4501	5345	6189	7033	8439
	68.0	0.480 (12.19)	1950	2220	2260	2320	2330	2330	2330	3454	4710	5024	5966	6908	7850	9421
	72.0	0.514 (13.06)	--	2590	2670	2820	2890	2880	2880	--	5044	5380	6389	7398	8407	10088
	77.0	0.550 (13.97)	--	2990	3110	3340	3500	3550	3550	--	5397	5757	6836	7916	8995	10794
	80.7	0.580 (14.73)	--	3330	3460	3680	4010	4100	4180	--	5692	6071	7209	8348	9486	11383
	85.0	0.608 (15.44)	--	3810	3870	4180	4490	4690	4850	--	5966	6364	7557	8751	9944	11933

PJE Performance Properties

Tubing sizes															
Outside Diameter	Nominal Weight	Maximum Load On Coupling Face (regular coupling)					Recommended make-up torque using a thread compound with a correction factor of 1 (regular coupling)								
		K55	C75	L/N80	C95	P105	K55			C75 - L/N80 - C95			P105		
							Min.	Opt.	Max	Min.	Opt.	Max.	Min.	Opt.	Max.
in	lb/ft	1000 lb					ft-lb								
2 3/8	4.60	54	74	79	94	104	1350	1400	1600	1800	2000	2400	2000	2200	2500
	5.10	54	74	79	94	104	1400	1600	1800	1800	2000	2400	2000	2200	2500
	5.80	73	99	106	126	139	1400	1800	2200	2000	2200	2500	2000	2300	2900
2 7/8	6.40	65	88	94	112	124	2200	2400	2500	2500	2700	2900	2500	2700	2900
	7.70	101	138	148	175	194	2500	2900	3300	2900	3100	3600	2900	3100	3600
	8.60	101	138	148	175	194	2700	3100	3400	3100	3300	3800	3100	3300	3800
	9.80	102	139	148	176	195	2900	3300	4300	3300	3400	4000	3300	3400	4000
3 1/2	7.70	71	97	104	123	136	2200	2500	2900	2900	3300	3600	4000	4300	4700
	9.20	91	124	132	157	174	2500	2900	3300	3300	3600	4000	4300	4700	5400
	10.20	109	149	159	189	209	3600	4300	5100	4300	4900	5800	4300	4900	5800
	12.70	150	205	218	259	286	4300	5100	5800	5100	5800	6900	5100	5800	6900
	13.70	186	254	271	322	356	4700	5400	6100	5400	6100	7200	5400	6100	7200
	14.70	186	254	271	322	356	4700	5400	6500	5400	6100	7600	5400	6100	7600
4	9.50	90	123	131	156	172	2200	2500	2900	2900	3300	3600	2900	3300	3600
	10.90	105	143	152	181	200	2500	3300	4000	3300	4000	4700	3300	4000	4700
	13.00	144	196	209	249	275	3600	4300	5100	4300	5100	6100	4300	5100	6100
	14.80	198	270	288	342	377	5100	5800	6500	5800	6500	7600	5800	6500	7600
	16.50	198	270	288	342	377	6500	7200	8700	7200	8000	9400	7200	8000	9400
4 1/2	12.60	115	157	168	199	220	4300	4700	5100	4300	4700	5800	5100	5400	6500

Casing Sizes															
Outside Diameter	Nominal Weight	Maximum Load On Coupling Face (regular coupling)					Recommended make-up torque using a thread compound with a correction factor of 1 (regular coupling)								
		K55	C75	L/N80	P110	V150	K55			C75 - L/N80 - C95			P110 – Q125 – V150		
							Min.	Opt.	Max	Min.	Opt.	Max.	Min.	Opt.	Max.
in	lb/ft	1000 lb					ft-lb								
4 1/2	10.50	115	157	168	231	--	4000	4300	4700	4000	4300	4700	4300	4700	5100
	11.60	115	157	168	231	--	4300	4700	5100	4300	4700	5100	4700	5100	5400
	13.50	157	215	229	315	--	4300	4700	5100	5100	5400	6500	5100	5400	6500
	15.10	157	215	229	315	429	5100	5400	6100	5400	5800	7200	5400	5800	7200
	16.90	220	301	321	441	601	5400	6100	7200	5800	6500	7200	5800	6500	7200
	18.90	220	301	321	441	601	7200	8000	9400	7200	8000	9400	7200	8000	9400
	21.60	263	358	382	526	717	7200	8000	9400	8000	8700	10100	8000	8700	10100
5	13.00	208	283	302	415	--	3600	4000	4300	4700	5100	6500	4700	5100	6500
	15.00	210	287	306	421	574	4700	5400	6900	5800	6500	8000	5800	6500	8000
	18.00	210	287	306	421	574	6100	6900	8300	7200	8000	9400	7200	8000	9400
	20.80	210	287	306	421	574	7200	8000	9400	8000	8700	10100	8000	8700	10100
	21.40	210	287	306	421	574	8000	8700	10100	8000	8700	10100	8000	8700	10100
	23.20	210	287	306	421	574	8000	8700	10100	8000	8700	10100	8000	8700	10100
	24.20	210	287	306	421	574	8700	9400	10800	10100	10800	12300	10100	10800	12300
5 1/2	15.50	223	304	325	446	--	4300	5100	6500	5100	5800	7200	5100	5800	7200
	17.00	223	304	325	446	609	5100	5800	7200	5800	6500	8000	5800	6500	8000
	20.00	223	304	325	446	609	6100	6900	8300	7200	8000	9400	7200	8000	9400
	23.00	223	304	325	446	609	7200	8000	9400	8300	9000	10500	8300	9000	10500
	26.80	223	304	325	446	609	8000	8700	10100	8700	9400	10800	8700	9400	10800
6 5/8	20.00	315	430	459	631	--	7200	8000	9400	7200	8000	9400	7200	8000	9400
	24.00	382	520	555	763	1041	7200	8000	9400	7200	8000	9400	7200	8000	9400
	28.00	402	548	584	803	1096	8000	8700	10100	8000	8700	10100	8000	8700	10100
	32.00	402	548	584	803	1096	8700	9400	10800	8700	9400	10800	8700	9400	10800
7	23.00	350	478	509	701	--	7200	8000	9400	7200	8000	9400	7200	8000	9400
	26.00	350	478	509	701	955	8000	8700	10100	8000	8700	10100	8000	8700	10100
	29.00	350	478	509	701	955	8700	9400	10800	8700	9400	10800	8700	9400	10800
	32.00	350	478	509	701	955	8700	9400	10800	8700	9400	10800	8700	9400	10800

Casing Sizes															
Outside Diameter	Nominal Weight	Maximum Load On Coupling Face (regular coupling)					Recommended make-up torque using a thread compound with a correction factor of 1 (regular coupling)								
		K55	C75	L/N80	P110	V150	K55			C75 - L/N80 - C95			P110		
							Min.	Opt.	Max	Min.	Opt.	Max.	Min.	Opt.	Max.
in	lb/ft	1000 lb					ft-lb								
7	35.00	350	478	509	701	955	9400	10100	11600	9400	10100	11600	9400	10100	11600
	38.00	350	478	509	701	955	10100	10800	12300	10100	10800	12300	10100	10800	12300
	41.00	350	478	509	701	955	10100	10800	12300	10100	10800	12300	10100	10800	12300
7 5/8	26.40	414	564	602	827	--	7200	8000	9400	7200	8000	9400	7200	8000	9400
	29.70	470	641	683	940	1281	8000	8700	10100	8000	8700	10100	8000	8700	10100
	33.70	535	729	778	1069	1458	8700	9400	10800	8700	9400	10800	8700	9400	10800
	35.80	539	735	784	1078	1470	8700	9400	10800	8700	9400	10800	8700	9400	10800
	39.00	--	735	784	1078	1470	9400	10100	11600	9400	10100	11600	9400	10100	11600
	42.80	--	735	784	1078	1470	9400	10100	11600	9400	10100	11600	9400	10100	11600
8 5/8	28.00	437	596	636	874	--	7200	8000	9400	7200	8000	9400	7200	8000	9400
	32.00	503	686	732	1006	1372	8000	8700	10100	8000	8700	10100	8000	8700	10100
	36.00	568	775	827	1137	1550	8700	9400	10800	8700	9400	10800	8700	9400	10800
	40.00	636	867	925	1271	1734	10100	10800	12300	10100	10800	12300	10100	10800	12300
	44.00	702	957	1021	1404	1914	10800	11600	13000	10800	11600	13000	10800	11600	13000
	49.00	--	966	1031	1417	1933	11600	12300	13700	11600	12300	13700	11600	12300	13700
	52.00	--	966	966	1417	1933	11600	12300	13700	11600	12300	13700	11600	12300	13700
9 5/8	36.00	564	769	820	1128	1538	8000	8700	10100	8000	8700	10100	8000	8700	10100
	40.00	630	859	916	1260	1718	8700	9400	10800	8700	9400	10800	8700	9400	10800
	43.50	691	942	1005	1381	1884	9400	10100	11600	9400	10100	11600	9400	10100	11600
	47.00	746	1018	1086	1493	2036	10800	11600	13000	10800	11600	13000	10800	11600	13000
	53.5	746	1071	1143	1571	2143	12300	13000	14500	12300	13000	14500	12300	13000	14500
	58.40	746	1071	1143	1571	2143	13000	13700	15200	13000	13700	15200	13000	13700	15200
	59.40	746	1071	1143	1571	2143	13000	13700	15200	13000	13700	15200	13000	13700	15200
10 3/4	40.50	629	858	915	1258	1715	8000	8700	10100	8000	8700	10100	8000	8700	10100
	45.50	715	975	1040	1431	1951	9400	10100	11600	9400	10100	11600	9400	10100	11600
	51.00	801	1092	1165	1602	2184	10800	11600	13000	10800	11600	13000	10800	11600	13000
	55.0	872	1190	1269	1745	2379	11600	12300	13700	11600	12300	13700	11600	12300	13700

Casing Sizes															
Outside Diameter	Nominal Weight	Maximum Load On Coupling Face (regular coupling)					Recommended make-up torque using a thread compound with a correction factor of 1 (regular coupling)								
		K55	C75	L/N80	P110	V150	K55			C75 - L/N80 - C95			P110		
							Min.	Opt.	Max	Min.	Opt.	Max.	Min.	Opt.	Max.
in	lb/ft	1000 lb					ft-lb								
10 3/4	60.70	872	1190	1269	1745	2379	12700	13400	14800	12700	13400	14800	12700	13400	14800
	65.70	872	1190	1269	1745	2379	13400	14100	15600	13400	14100	15600	13400	14100	15600
11 3/4	47.00	730	987	1054	1458	1993	8700	9400	10800	8700	9400	10800	8700	9400	10800
	54.00	740	1002	1068	1486	2024	9400	10100	11600	9400	10100	11600	9400	10100	11600
	60.00	743	1011	1075	1482	2024	10800	11600	13000	10800	11600	13000	10800	11600	13000
	65.00	743	1011	1075	1482	2024	11600	12300	13700	11600	12300	13700	11600	12300	13700
	71.0	743	1011	1075	1482	2024	12700	13400	14800	12700	13400	14800	12700	13400	14800
13 3/8	54.50	853	1164	1241	1706	2327	10100	10800	12300	10100	10800	12300	10100	10800	12300
	61.00	962	1312	1399	1924	2623	10800	11600	13000	10800	11600	13000	10800	11600	13000
	68.00	1069	1458	1556	2139	2917	11600	12300	13700	11600	12300	13700	11600	12300	13700
	72.00	1069	1465	1553	2149	2931	12300	13000	14500	12300	13000	14500	12300	13000	14500
	77.00	1069	1465	1553	2149	2931	12700	13400	14800	12700	13400	14800	12700	13400	14800
	80.70	1069	1065	1553	2149	2931	13400	14100	15600	13400	14100	15600	13400	14100	15600
	85.00	1069	1065	1553	214	2931	13400	14100	15600	13400	14100	15600	13400	14100	15600

Tubing Sizes									
Outside Diameter (D)		Nominal Weight	Wall Thickness (t)		Joint Yield Strength				
					K55	C75	L/N80	C95	P105
In.	mm	lb/ft	In.	mm	1000 lbs				
2 3/8	60.3	4.6	0.190	4.83	72	98	104	124	137
		5.1	0.218	5.54	81	111	118	140	155
		5.8	0.254	6.45	93	127	135	161	178
2 7/8	73.0	6.4	0.217	5.51	100	136	145	172	190
		7.7	0.276	7.01	124	169	180	214	237
		8.6	0.308	7.82	137	186	199	236	261
		9.8	0.362	9.19	157	214	229	272	300
3 1/2	88.9	7.7	0.216	5.49	123	167	178	212	234
		9.2	0.254	6.45	142	194	207	246	272
		10.2	0.289	7.34	160	219	233	277	306
		12.7	0.375	9.53	202	276	295	350	387
		13.7	0.413	10.49	220	300	320	381	421
		14.7	0.450	11.43	237	323	345	410	453
4	101.6	9.5	0.226	5.74	147	201	214	255	281
		10.9	0.262	6.65	169	231	246	292	323
		13.0	0.330	8.38	209	285	304	361	400
		14.8	0.380	9.65	238	324	346	411	454
		16.5	0.430	10.92	265	362	386	458	506
4 1/2	114.3	12.6	0.271	6.88	198	270	288	342	378

Casing Sizes											
Outside Diameter (D)		Nominal Weight	Wall Thickness (t)		Joint Yield Strength						
					K55	C75	L/N80	C95	P110	Q125	V150
In.	mm	lb/ft	In.	mm	1000 lbs						
4 1/2	114.3	10.5	0.224	5.69	166	226	241	286	331	--	--
		11.6	0.250	6.35	184	250	261	317	367	--	--
		13.5	0.290	7.37	211	288	307	364	422	479	--
		15.1	0.337	8.56	242	331	353	419	485	551	661
		16.9	0.380	9.65	271	369	393	467	541	615	738
		18.8	0.430	10.92	302	412	440	522	605	687	825
		21.6	0.500	12.70	346	471	503	597	691	785	942
5	127.0	13.0	0.253	6.43	208	283	302	358	415	--	--
		15.0	0.296	7.52	241	328	350	416	481	547	656
		18.0	0.362	9.19	290	396	422	501	580	659	791
		20.8	0.422	10.72	301	410	438	520	602	684	820
		21.4	0.437	11.10	301	410	438	520	602	684	820
		23.2	0.478	12.14	301	410	438	520	602	684	820
		24.2	0.476	12.70	301	410	438	520	602	684	820
5 1/2	139.7	15.5	0.275	6.99	248	339	361	429	497	--	--
		17.0	0.304	7.72	273	372	397	471	546	620	744
		20.0	0.361	9.17	321	437	466	554	641	729	874
		23.0	0.415	10.54	326	445	475	564	653	742	890
		26.8	0.476	12.09	326	445	475	564	653	742	890
6 5/8	168.3	20.0	0.288	7.32	315	430	459	545	631	--	--
		24.0	0.352	8.94	382	520	555	659	763	867	1041
		28.0	0.417	10.59	447	610	651	773	895	1017	1220
		32.0	0.475	12.07	505	688	734	872	1010	1147	1377
7	177.8	23.0	0.317	8.05	366	499	532	632	732	--	--
		26.0	0.362	9.19	415	566	604	717	830	944	1132
		29.0	0.408	10.36	465	634	676	803	929	1056	1257
		32.0	0.498	11.51	497	677	722	858	994	1129	1354

Casing Sizes											
Outside Diameter (D)		Nominal Weight	Wall Thickness (t)		Joint Yield Strength						
					K55	C75	L/N80	C95	P110	Q125	V150
In.	mm	lb/ft	In.	mm	1000 lbs						
7	177.8	35.0	0.498	12.65	497	677	723	858	994	1129	1355
		38.0	0.540	13.72	497	677	722	858	994	1129	1355
		41.0	0.590	14.99	497	677	722	858	994	1129	1355
7 5/8	193.7	26.4	0.328	8.33	414	564	602	714	827	--	--
		29.7	0.375	9.53	470	641	683	811	940	1068	1281
		33.7	0.430	10.92	535	729	778	923	1069	1215	1458
		35.8	0.465	11.81	575	784	837	994	1151	1307	1569
		39.0	0.500	12.70	--	839	895	1063	1231	1399	1679
		42.8	0.562	14.27	--	935	998	1185	1372	1559	1871
8 5/8	219.1	28.0	0.304	7.72	437	596	636	755	874	--	--
		32.0	0.352	8.94	503	686	732	869	1006	1144	1372
		36.0	0.400	10.16	568	775	827	982	1137	1292	1550
		40.0	0.450	11.43	636	867	925	1098	1271	1445	1734
		44.0	0.500	12.70	702	957	1021	1212	1404	1595	1914
		49.0	0.557	14.15	--	1059	1129	1341	1553	1765	2118
		52.0	0.595	15.11	--	1126	1201	1426	1651	1876	2252
9 5/8	244.5	36.0	0.352	8.94	564	769	820	974	1128	1282	1538
		40.0	0.395	10.03	630	859	916	1088	1260	1432	1718
		43.5	0.435	11.05	691	942	1005	1193	1381	1570	1884
		47.0	0.472	11.99	746	1018	1086	1289	1493	1697	2036
		53.5	0.545	13.84	--	1166	1244	1477	1710	1943	2332
		58.4	0.595	15.11	--	1266	1350	1604	1857	2110	2532
		59.4	0.609	15.47	--	1294	1380	1639	1897	2156	2587
10 3/4	273.1	40.5	0.350	8.89	629	858	915	1086	1258	1429	1715
		45.5	0.400	10.16	715	975	1040	1236	1431	1626	1951
		51.0	0.450	11.43	801	1092	1165	1383	1602	1820	2184
		55.5	0.495	12.57	877	1196	1276	1515	1754	1993	2392

Casing Sizes											
Outside Diameter (D)		Nominal Weight	Wall Thickness (t)		Joint Yield Strength						
					K55	C75	L/N80	C95	P110	Q125	V150
In.	mm	lb/ft	In.	mm	1000 lbs						
10 3/4	273.1	60.7	0.545	13.84	--	1310	1398	1660	1922	2184	2621
		65.7	0.595	15.11	--	1424	1519	1803	2088	2373	2847
11 3/4	298.5	47.0	0.375	9.53	737	1005	1072	1273	1474	1675	2010
		54.0	0.435	11.05	850	1160	1237	1469	1701	1933	2319
		60.0	0.489	12.42	951	1297	1384	1643	1903	2162	2595
		65.0	0.534	13.56	1035	1411	1505	1788	2070	2352	2822
13 3/8	339.7	54.5	0.380	9.65	853	1164	1241	1474	1706	1939	2327
		61.0	0.430	10.92	962	1312	1399	1661	1924	2186	2623
		68.0	0.480	12.19	1069	1458	1556	1847	2139	2431	2917
		72.0	0.514	13.06	--	1558	1661	1973	2284	2596	3115
		77.0	0.550	13.97	--	1662	1773	2105	2438	2770	3324
		80.7	0.580	14.73	--	1749	1865	2215	2565	2914	3497
		85.0	0.608	15.44	--	1829	1951	2317	2682	3048	3658

1 pound mass = 0.454 kg

1 pound force-foot = 1.3558 N.m. = 0.138255 m.kg

1 psi = 6894.76 Pa = 0.068947 bar

Note :

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