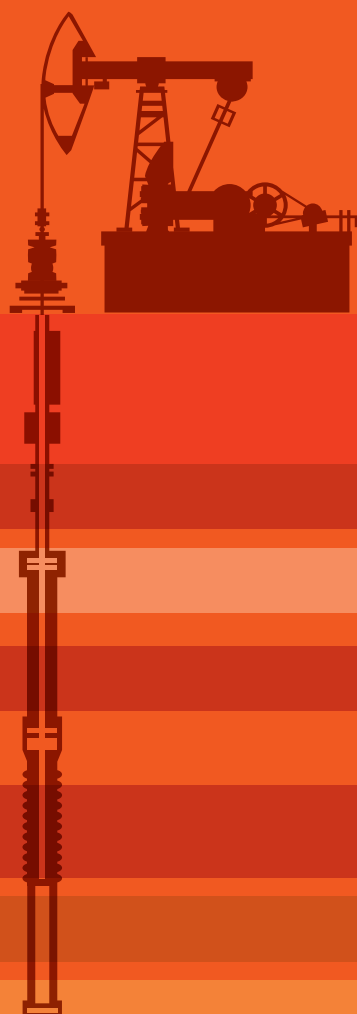




EXPERT PIPE SOLUTIONS FOR OIL AND GAS INDUSTRY

CASING, TUBING AND LINE PIPES



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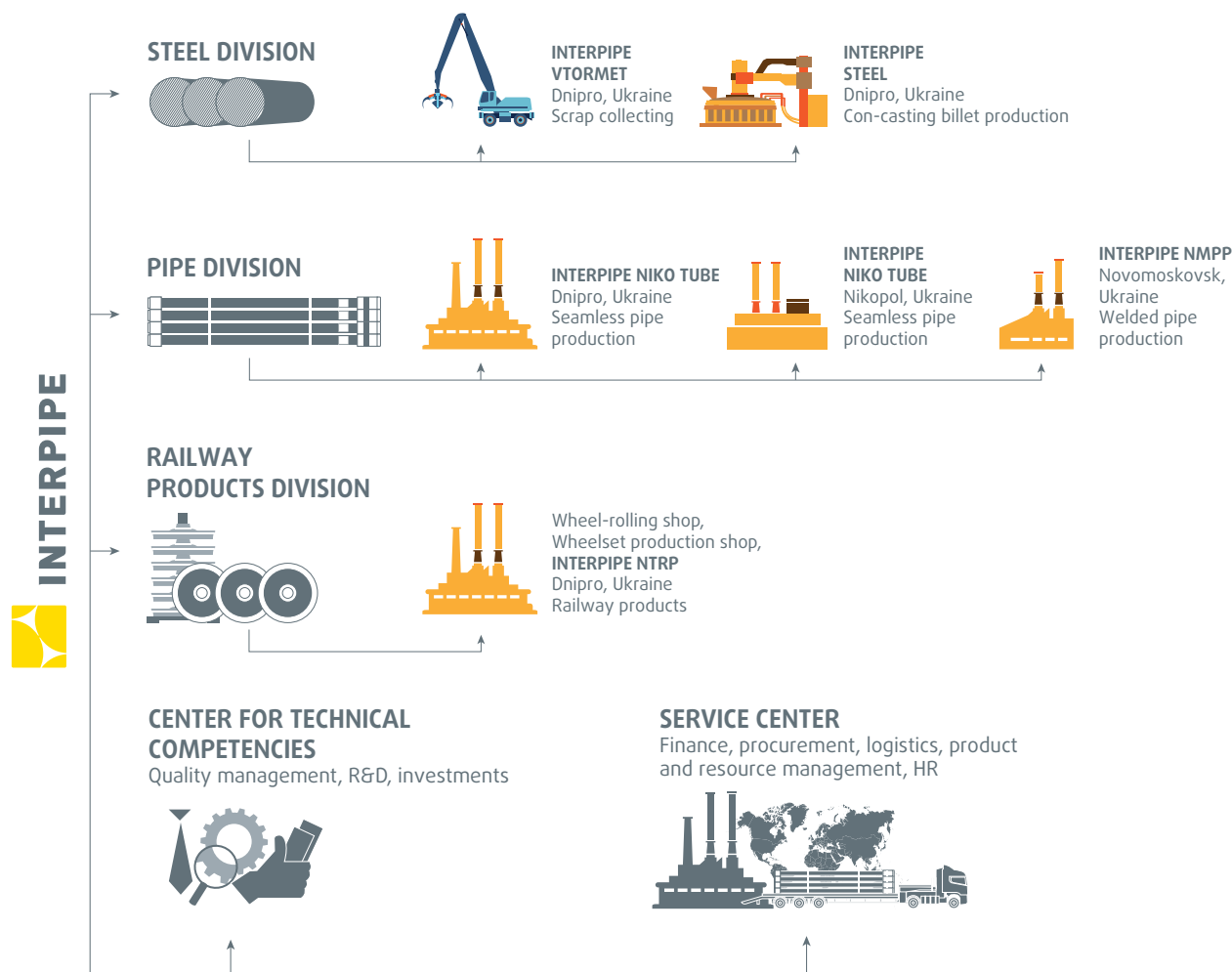
INTERPIPE AT A GLANCE

Interpipe is a global steel pipe producer — oil and gas exploration and transportation, power generation, mechanical and structural use.

The company’s products are supplied to 80 countries all over the world through a chain of commercial offices located in Ukraine, Europe, the USA and the Middle East.

Interpipe structure includes production facilities located in Dnipro region, one of the major industrial centers of Ukraine. The company continues to invest heavily in the development and modernization of its mills.

Interpipe includes 3 operating divisions – Steel, Pipe and Railway Products. The company controls product quality at every stage: from manufacturing of raw materials to delivery of final products to customers.



SELLING TO CUSTOMERS GLOBALLY – KEY MARKETS



QUALITY-FOCUSED OPERATIONS

Interpipe considers quality control as a key part of the activities to manufacture products, exceeding customer needs. Quality control is implemented at all stages of production process – starting from continuous casting at the in-house mini mill and up to nondestructive testing of pipe body and pipe ends and shipping to customers.

Our commitment to quality is confirmed by:

- Pipe products certification in compliance with major international standards API 5CT, API 5L, EN (DIN), ASTM, JIS, GOST, DNV, Lloyd Register, UDT, Dir 97/23/EC, AD 2000 Merkblatt and customer specifications
 - Quality management system as per ISO 9001 and API Q1
 - Implementation of a continuous improvement system at the company mills
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ONGOING INVESTMENT PROGRAM

Interpipe regularly invests in development of its production capacities, improvement of the output quality, and expansion of its product range. Interpipe focused on providing the high quality product at short delivery time for each client. During last 12 years Interpipe conducted extensive improvement program, which included commission of in-house steel melting complex Interpipe Steel, installation of various new NDE systems and finishing lines on the mills. Along with this, Interpipe purchased new technologies for heat treatment of pipes and hydro testing.

CASING

API 5CT TECHNICAL SPECIFICATIONS FOR CASING

Applicable type of end-finish - SC, LC, BC, INTREPID-J, INTREPID-M, INTREPID-SP, INTREPID-F
Sizes, masses, wall thickness, grade

Size designation	Outside diameter		Weight per lenght unit				Wall thickness		Inside diameter		Drift diameter		Steel grade
			T&C		PE								
	in	mm	Lb/ft	Kg/m	Lb/ft	Kg/m	in	mm	in	mm	in	mm	
4 ½	4.500	114.30	9.50	14.14	9.41	14.02	0.205	5.21	4.090	103.88	3.965	100.70	H40; K55; J55, N80, L80, C90, R95, T95, P110, Q125
			10.50	15.63	10.24	15.24	0.224	5.69	4.052	102.92	3.927	99.74	K55; J55, N80, L80, C90, R95, T95, P110, Q125
			11.60	17.26	11.36	16.91	0.250	6.35	4.000	101.60	3.875	98.43	K55; J55, N80, L80, C90, R95, T95, P110, Q125
			13.50	20.09	13.05	19.44	0.290	7.37	3.920	99.56	3.795	96.38	J55, N80, L80, C90, R95, T95, P110, Q125
			15.10	22.47	15.00	22.32	0.337	8.56	3.826	97.18	3.701	94.00	J55, N80, L80, C90, R95, T95, P110, Q125
5½	5.500	139.70	14.00	20.83	13.71	20.40	0.244	6.20	5.012	127.30	4.887	124.13	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			15.50	23.07	15.36	22.86	0.275	6.99	4.950	125.73	4.825	122.56	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			17.00	25.30	16.89	25.14	0.304	7.72	4.892	124.26	4.767	121.08	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			20.00	29.76	19.83	29.51	0.361	9.17	4.778	121.36	4.653	118.19	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			23.00	34.23	22.56	33.57	0.415	10.54	4.670	118.62	4.545	115.44	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
6 ¾	6.625	168.30	20.00	29.76	19.51	29.03	0.288	7.32	6.049	153.64	5.924	150.47	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			24.00	35.72	23.60	35.12	0.352	8.94	5.921	150.39	5.796	147.22	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			28.00	41.67	27.67	41.18	0.417	10.59	5.791	147.09	5.666	143.92	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			32.00	47.62	31.23	46.48	0.475	12.07	5.675	144.15	5.550	140.97	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
7	7.000	177.80	17.00	25.30	16.72	24.88	0.231	5.87	6.538	166.07	6.413	162.89	H40, J55, N80, L80, C90, R95, T95, P110, Q125
			20.00	29.76	19.56	29.11	0.272	6.91	6.456	163.98	6.331	160.81	H40, J55, K55, N80, L80, C90, R95, T95, P110, Q125
			23.00	34.23	22.65	33.71	0.317	8.05	6.366	161.70	6.241	158.52	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			26.00	38.69	25.69	38.23	0.362	9.19	6.276	159.41	6.151	156.24	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			29.00	43.16	28.75	42.78	0.408	10.36	6.184	157.07	6.059	153.90	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			32.00	47.62	31.70	47.17	0.453	11.51	6.094	154.79	5.969	151.61	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			35.00	52.09	34.61	51.51	0.498	12.65	6.004	152.50	5.879	149.33	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			38.00	56.55	37.29	55.49	0.540	13.72	5.920	150.37	5.795	147.19	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
7 ¾	7.625	193.70	24.00	35.72	23.49	34.96	0.300	7.62	7.025	178.44	6.900	175.26	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			26.40	39.29	25.59	38.08	0.328	8.33	6.969	177.01	6.844	173.84	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			29.70	44.20	29.06	43.25	0.375	9.53	6.875	174.63	6.750	171.45	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			33.70	50.15	33.07	49.21	0.430	10.92	6.765	171.83	6.640	168.66	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			39.00	58.04	38.08	56.67	0.500	12.70	6.625	168.28	6.500	165.10	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125

Size designation	Outside diameter		Weight per lenght unit				Wall thickness		Inside diamete		Drift diameter		Steel grade
			T&C		PE								
	in	mm	Lb/ft	Kg/m	Lb/ft	Kg/m	in	mm	in	mm	in	mm	
7 ½	7.625	193.70	42.80	63.69	42.43	63.14	0.562	14.27	6.501	165.13	6.376	161.95	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			45.30	67.41	44.71	66.54	0.595	15.11	6.435	163.45	6.310	160.27	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			47.10	70.09	46.77	69.60	0.625	15.88	6.375	161.93	6.250	158.75	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
8 ½	8.625	219.10	24.00	35.72	23.60	35.12	0.264	6.71	8.097	205.66	7.972	202.49	J55, K55, N80, L80, C90, R95, T95, P110, Q125
			28.00	41.67	27.04	40.24	0.304	7.72	8.017	203.63	7.892	200.46	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			32.00	47.62	31.13	46.33	0.352	8.94	7.921	201.19	7.796	198.02	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			36.00	53.57	35.17	52.34	0.400	10.16	7.825	198.76	7.700	195.58	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			40.00	59.53	39.33	58.53	0.450	11.43	7.725	196.22	7.600	193.04	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			44.00	65.48	43.43	64.63	0.500	12.70	7.625	193.68	7.500	190.50	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			49.00	72.92	48.04	71.49	0.557	14.15	7.511	190.78	7.386	187.60	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
9 ½	9.625	244.50	32.30	48.07	31.06	46.22	0.312	7.92	9.001	228.63	8.845	224.66	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			36.00	53.57	34.89	51.92	0.352	8.94	8.921	226.59	8.765	222.63	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			40.00	59.53	38.97	57.99	0.395	10.03	8.835	224.41	8.679	220.45	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			43.50	64.74	42.73	63.59	0.435	11.05	8.755	222.38	8.599	218.41	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			47.00	69.94	46.18	68.72	0.472	11.99	8.681	220.50	8.525	216.54	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			53.50	79.62	52.90	78.72	0.545	13.84	8.535	216.79	8.379	212.83	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			58.40	86.91	57.44	85.48	0.595	15.11	8.435	214.25	8.279	210.29	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
10 ¾	10.750	273.00	32.75	48.74	31.23	46.48	0.279	7.09	10.192	258.88	10.036	254.91	H40; J55, N80, L80, C90, R95, T95, P110, Q125
			40.50	60.27	38.91	57.90	0.350	8.89	10.050	255.27	9.894	251.31	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			45.50	67.71	44.26	65.87	0.400	10.16	9.950	252.73	9.794	248.77	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			51.00	75.90	49.55	73.74	0.450	11.43	9.850	250.19	9.694	246.23	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			55.50	82.59	54.26	80.75	0.495	12.57	9.760	247.90	9.604	243.94	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			60.70	90.33	59.45	88.47	0.545	13.84	9.660	245.4	9.504	241.40	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			65.70	97.77	64.59	96.12	0.595	15.11	9.560	242.8	9.404	238.86	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
11 ¾	11.750	298.40	42.00	62.50	40.64	60.48	0.333	8.46	11.084	281.53	10.928	277.57	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			47.00	69.94	45.60	67.86	0.375	9.53	11.000	279.40	10.844	275.44	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			54.00	80.36	52.62	78.31	0.435	11.05	10.880	276.35	10.724	272.39	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			60.00	89.29	58.87	87.61	0.489	12.42	10.772	273.61	10.616	269.65	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			65.00	96.73	64.03	95.29	0.534	13.56	10.682	271.32	10.526	267.36	J55; N80 (1); N80, L80, C90, R95, T95, P110, Q125
			71.00	105.66	69.48	103.40	0.582	14.78	10.586	268.88	10.430	264.92	J55; N80 (1); N80, L80, C90, R95, T95, P110, Q125
13 ¾	13.375	339.70	48.00	71.43	46.02	68.49	0.330	8.38	12.715	322.96	12.559	319.00	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			54.50	81.10	52.79	78.56	0.380	9.65	12.615	320.42	12.459	316.46	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			61.00	90.78	59.50	88.55	0.430	10.92	12.515	317.88	12.359	313.92	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
			68.00	101.19	66.17	98.47	0.480	12.19	12.415	315.34	12.259	311.38	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125
				107.15	70.67	105.17	0.514	13.06	12.347	313.61	12.191	309.65	H40; J55; K55; N80(1); N80(Q); R95; M65; L80(1); C90; T95; P110; Q125

API 5CT

TECHNICAL SPECIFICATIONS FOR ERW CASING

Sizes, masses, wall thickness, grade and applicable end-finish

Size designation	Outside diameter		Wall thickness		Weight per length unit			Steel grade	Product specification level	Type of end-finish		
					PE		T&C					
	in	mm	in	mm	lb/ft	kg/m	kg/m			SC	LC	BC
8 ⁵ / ₈	8.6	219.08	0.264	6.71	77.16	35.15	35.72	H40; J55	PSL-1	+		
			0.304	7.72	88.18	40.24	41.67			+		
			0.352	8.94	101.41	46.33	47.62			+	+	+
			0.395	10.16	114.64	52.35	53.57			+	+	+
10 ³ / ₄	10.8	273.05	0.279	7.09	101.41	46.50	48.74			+		
			0.350	8.89	125.66	57.91	60.27			+	+	+
			0.400	10.16	143.30	65.87	67.71			+	+	+
16	16.0	406.4	0.375	9.53	205.03	93.27	-			plain ends		
			0.438	11.13	238.10	108.49	-					
20	20.0	508.0	0.438	11.13	299.83	136.38	-					



TUBING

API 5CT TECHNICAL SPECIFICATIONS FOR TUBING

Sizes, masses, wall thickness, grade and applicable end-finish

Size designation	Outside diameter		Wall thickness		Weight per length unit				Steel grade	Type of end-finish
	in	mm	in	mm	Non-upset T&C		Ext. upset T&C			
					lb/ft	kg/m	lb/ft	kg/m		
2 ¾	2.375	60.32	0.190	4.83	4.60	6.85	4.70	6.99	H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, EU, INTREPID, INTREPID-M
			0.254	6.45	9.20	13.63	9.30	13.84	H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, EU, INTREPID-M
2 ⅞	2.875	73.02	0.217	5.51	6.40	9.52	6.50	9.67	H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, EU, INTREPID, INTREPID-M
			0.276	7.01	7.80	11.61	7.90	11.76	H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, EU, INTREPID, INTREPID-M
3 ½	3.500	88.90	0.216	5.49	7.70	11.46			H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, INTREPID, INTREPID-M
			0.254	6.45	9.20	13.69	9.30	13.84	H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, EU, INTREPID, INTREPID-M
			0.289	7.34	10.20	15.18			H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, INTREPID, INTREPID-M
4	4.000	101.60	0.226	5.74	9.50	14.14			H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, INTREPID, INTREPID-M
4 ½	4.500	114.30	0.271	6.88	12.60	18.75			H40, J55, N80, L80, C90, R95, T95, P110, Q125	NU, INTREPID, INTREPID-M

NU - non-upset threaded ends
EU - upset threaded ends

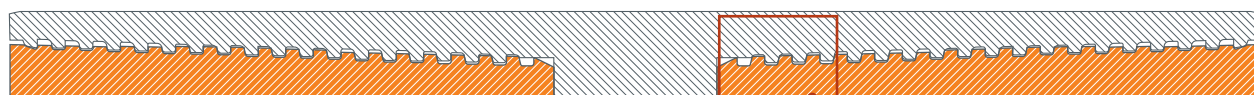
NON-UPSET PLAIN-END TUBING (TYPE P):

Sizes, masses, wall thickness and grade

Size designation	Outside diameter		Wall thickness		Weight per length unit		Steel grade
	in	mm	in	mm	lb/ft	kg/m	
1 1⁄2	1.900	48.26	0.145	3.68	2.72	4.05	H40, J55, N80, L80, C90, R95, T95, P110, Q125
2 3⁄8	2.375	60.32	0.167	4.24	3.94	5.86	H40, J55, N80, L80, C90, R95, T95, P110, Q125
			0.190	4.83	4.44	6.61	H40, J55, N80, L80, C90, R95, T95, P110, Q125
2 7⁄8	2.875	73.02	0.217	5.51	6.17	9.17	H40, J55, N80, L80, C90, R95, T95, P110, Q125
			0.276	7.01	7.67	11.41	H40, J55, N80, L80, C90, R95, T95, P110, Q125
3 1⁄2	3.500	88.9	0.216	5.49	7.58	11.29	H40, J55, N80, L80, C90, R95, T95, P110, Q125
			0.254	6.45	8.81	13.12	H40, J55, N80, L80, C90, R95, T95, P110, Q125
			0.289	7.34	9.92	14.76	H40, J55, N80, L80, C90, R95, T95, P110, Q125
4	4.000	101.6	0.226	5.74	9.12	13.57	H40, J55, N80, L80, C90, R95, T95, P110, Q125
			0.262	6.65	10.47	15.57	H40, J55, N80, L80, C90, R95, T95, P110, Q125
4 1⁄2	4.500	114.3	0.271	6.88	12.25	18.23	H40, J55, N80, L80, C90, R95, T95, P110, Q125

PREMIUM AND SEMI PREMIUM CONNECTIONS

INTREPID SP SEMI PREMIUM CONNECTION

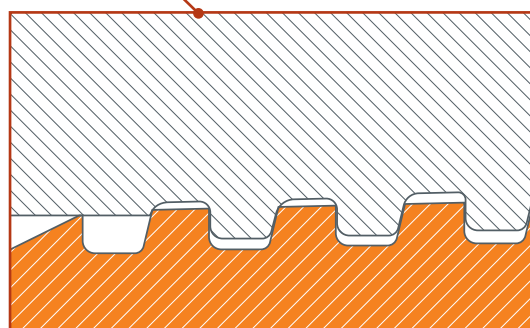


APPLICATIONS:

- Deviated wells
- Vertical wells

THREAD GEOMETRY:

- “Pin-to-shoulder” design
- Interchangeable with API Buttress
- True ID



INTREPID SP is a proven semi premium connection developed to face customer challenges.

INTREPID SP allows to combine drilling with casing assure high torque resistance. The connection is fully interchangeable with API BUTTRESS connection, casing accessories.

This connection allows an angle of deviation higher than 20° / 100 ft.

INTREPID-J PREMIUM CONNECTION

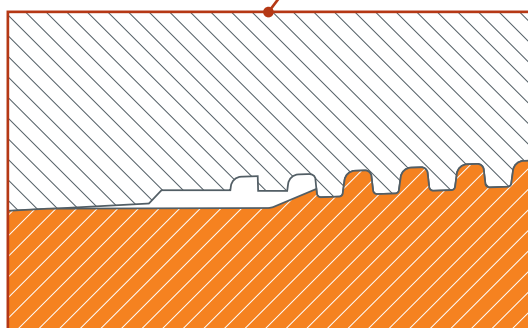


APPLICATIONS:

- Deviated wells
- Vertical wells

THREAD GEOMETRY:

- Trapezoidal thread type
- “Metal-to-metal” seal

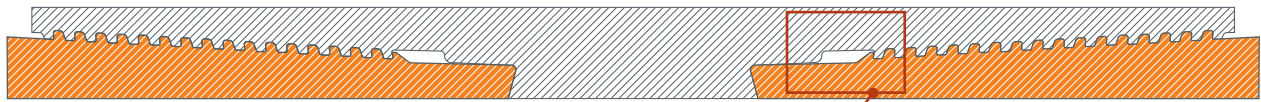


INTREPID-J is a patented Interpipe’s premium connection designed for oil & gas well construction for tough geological environments.

“Metal-to-metal” seal combined with trapezoidal thread type guarantees high tightness of the connection and its stable ultimate joint strength.

The connection design enables to reach drift angle up to 15° /30 m.

INTREPID-M PREMIUM CONNECTION

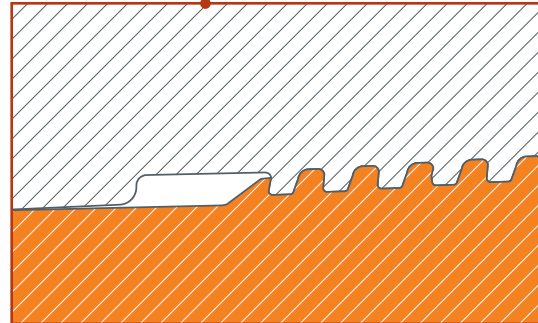


APPLICATIONS:

- S-type wells
- Horizontal wells
- Vertical wells
- Deviated wells

THREAD GEOMETRY:

- "Hook" thread profile
- "Metal-to-metal" leak-prevention system



Interpipe INTREPID-M is a proprietary premium solution qualified according to ISO 13679 CAL IV.

INTREPID-M has stable high performance characteristics while operating within high pressures and temperatures. The connection withstands up to 100% of tension, internal and external pressure, and compression.

INTREPID-M seal design enables to reach drift angle up to 40°/30 m.

Along with corrosion-resistant alloys and sour service materials, the premium product can be used in hydrogen sulfide and carbon dioxide environments.





LINE PIPES

SPECIFICATION FOR LINE PIPES – API 5L/ISO 3183

Application: gas, water and oil transportation
Welded highest steel grade X70/Service Annex H
Seamless highest steel grade X80/Service Annex H, J
Pipe dimensions and weight

Nominal size	Outside diameter		Wall thickness		Weight per length unit		Wheight class	Schedule	Pipe type	
	in	mm	in	mm	lb/ft	kg/m			Seamless	Welded
½*	0.840	21.30	0.109	2.77	0.85	1.27	STD	40	•	
			0.147	3.73	1.09	1.62	XS	80	•	
¾*	1.050	26.7	0.113	2.87	1.13	1.69	STD	40	•	
			0.154	3.91	1.48	2.20	XS	80	•	
1	1.315	33.4	0.109	2.77	1.41	2.09		10	•	
			0.114	2.90	1.46	2.18		30	•	
			0.133	3.38	1.68	2.50	STD	40	•	
			0.179	4.55	2.17	3.24	XS	80	•	
1¼	1.660	42.2	0.109	2.77	1.81	2.69		10	•	
			0.117	2.97	1.93	2.87		30	•	
			0.140	3.56	2.27	3.39	STD	40	•	
			0.191	4.85	3.00	4.47	XS	80	•	
1½	1.900	48.3	0.109	2.77	2.09	3.11		10	•	
			0.125	3.18	2.37	3.53		30	•	
			0.145	3.68	2.72	4.05	STD	40	•	
			0.200	5.08	3.63	5.41	XS	80	•	
2	2.375	60.3	0.109	2.77	2.64	3.93		10	•	
			0.125	3.18	3.01	4.48		30	•	
			0.141	3.58	3.36	5.01			•	
			0.154	3.91	3.66	5.44	STD	40	•	
			0.172	4.37	4.05	6.03			•	
			0.188	4.78	4.39	6.54			•	
			0.218	5.54	5.03	7.48	XS	80	•	
			0.250	6.35	5.68	8.45			•	
2½	2.875	73.0	0.120	3.05	3.53	5.26		10	•	
			0.156	3.96	4.53	6.74			•	
			0.172	4.37	4.97	7.40			•	
			0.188	4.78	5.40	8.04		30	•	
			0.203	5.16	5.80	8.63	STD	40	•	
			0.216	5.49	6.13	9.14			•	
			0.250	6.35	7.01	10.44			•	
			0.276	7.01	7.67	11.41	XS	80	•	
3	3.500	88.9	0.375	9.53	10.02	14.92		160	•	
			0.141	3.58	5.06	7.53			•	
			0.156	3.96	5.58	8.29			•	
			0.172	4.37	6.11	9.11			•	
			0.188	4.78	6.66	9.92		30	•	
			0.216	5.49	7.58	11.29	STD	40	•	
			0.250	6.35	8.69	12.93			•	
			0.281	7.14	9.67	14.40			•	
			0.300	7.62	10.26	15.27	XS	80	•	
			0.438	11.13	14.34	21.35		160	•	
3 1/2	4.000	101.6	0.600	15.24*	16.60	27.68	XXS		•	
			0.156	3.96	6.41	9.53			•	
			0.172	4.37	7.03	10.48			•	
			0.188	4.78	7.66	11.41		30	•	
			0.226	5.74	9.12	13.57	STD	40	•	
			0.250	6.35	10.02	14.92			•	
			0.281	7.14	11.17	16.63			•	
			0.318	8.08	12.52	18.63	XS	80	•	
4	4.500	114.3	0.156	3.96	7.24	10.88			•	
			0.172	4.37	7.96	11.92			•	
			0.188	4.78	8.67	12.96		30	•	
			0.203	5.16	9.32	13.99			•	
			0.219	5.56	10.02	15.01			•	
			0.237	6.02	10.80	16.02	STD	40	•	
			0.250	6.35	11.36	17.03			•	
			0.281	7.14	12.67	18.77			•	
			0.312	7.92	13.97	20.78			•	
			0.337	8.56	15.00	22.32	XS	80	•	
5	5.563	141.3	0.438	11.13	19.00	28.32		120	•	
			0.258	6.55	14.63	21.92	STD	40	•	
			0.281	7.14	15.87	23.50			•	
			0.312	7.92	17.51	25.99			•	
			0.344	8.74	19.19	28.45			•	
			0.375	9.53	20.80	30.88	XS	80	•	
			0.500	12.70	27.06	40.28		120	•	

Pipe dimensions and weight

Nominal size	Outside diameter		Wall thickness		Weight per length unit		Wheight class	Schedule	Pipe type	
	in	mm	in	mm	lb/ft	kg/m			Seamless	Welded
6	6.625	168.3	0.280	7.11	18.99	28.22	STD	40	*	
			0.312	7.92	21.06	31.25			*	
			0.344	8.74	23.10	34.24			*	
			0.375	9.53	25.05	37.20			*	
			0.432	10.97	28.60	42.67	XS	80	*	
			0.500	12.70	32.74	48.73			*	
			0.562	14.27	36.43	54.31		120	*	
			0.625	15.88	40.09	59.76			*	
			0.719	18.26	45.39	67.69		160	*	
			0.750	19.05	47.10	70.27			*	
			0.864	21.95	53.21	79.22	XXS		*	
			0.875	22.23	53.78	80.08			*	
8	8.625	219.1	0.188	4.78	16.98	25.26				*
			0.203	5.16	18.28	27.43		20		*
			0.219	5.56	19.68	29.48		30		*
			0.250	6.35	22.38	33.57			*	*
			0.277	7.04	24.72	36.61	STD	40	*	*
			0.312	7.92	27.73	41.14			*	*
			0.322	8.18	28.58	42.65			*	*
			0.344	8.74	30.45	45.14		60	*	
			0.375	9.53	33.07	49.10			*	
			0.406	10.31	35.67	53.09	XS	80	*	
			0.438	11.13	38.33	56.94			*	
			0.500	12.70	43.43	64.64			*	
			0.562	14.27	48.44	72.22		120	*	
			0.625	15.88	53.45	79.67			*	
			0.719	18.26	60.77	90.62		140	*	
			0.750	19.05	63.14	94.20			*	
			0.812	20.62	67.82	100.84	XXS	160	*	
			0.875	22.23	72.49	107.79			*	
10	10.750	273.0	0.906	23.01	74.69	111.27			*	
			0.203	5.16	22.89	34.35				*
			0.219	5.56	24.65	36.94		20		*
			0.250	6.35	28.06	42.09			*	*
			0.279	7.09	31.23	46.57		30	*	*
			0.307	7.80	34.27	51.03			*	*
			0.344	8.74	38.27	56.72	STD	40	*	*
			0.365	9.27	40.52	60.50			*	*
			0.438	11.13	48.28	71.72	XS	60	*	
			0.500	12.70	54.79	81.55			*	
			0.562	14.27	61.21	91.26			*	
			0.625	15.88	67.65	100.85		100	*	
			0.719	18.26	77.10	114.99			*	
			0.812	20.62	86.26	128.27			*	
			0.875	22.23	92.37	137.36			*	
			0.938	23.83	98.39	146.32			*	
12	12.750	323.8	0.219	5.56	29.34	43.96		20		*
			0.250	6.35	33.41	50.11				*
			0.281	7.14	37.46	55.47			*	*
			0.312	7.92	41.48	61.56		30	*	*
			0.330	8.38	43.81	65.35			*	*
			0.344	8.74	45.62	67.62	STD		*	*
			0.375	9.53	49.61	73.65		40	*	*
			0.406	10.31	53.57	79.65			*	*
			0.438	11.13	57.65	85.62	XS		*	
			0.500	12.70	65.48	97.46		60	*	
			0.562	14.27	73.22	109.18			*	
			0.625	15.88	81.01	120.76		80	*	
			0.688	17.48	88.71	132.23			*	
			0.750	19.05	96.21	143.56			*	
			0.812	20.62	103.63	154.08			*	
			0.938	23.83	118.44	176.13			*	
14	14.000	355.6	0.219	5.56	32.26	48.33		10		*
			0.250	6.35	36.75	55.11				*
			0.281	7.14	41.21	61.02		20		*
			0.312	7.92	45.65	67.74			*	*
			0.344	8.74	50.22	74.42	STD	30	*	*
			0.375	9.53	54.62	81.08			*	*
			0.406	10.31	59.00	87.71		10	*	*
16	16.000	406.4	0.250	6.35	42.09	63.13				*
			0.281	7.14	47.22	69.91		20		*
			0.312	7.92	52.32	77.63				*
			0.344	8.74	57.57	85.32	STD	30		*
			0.375	9.53	62.64	92.98			*	*
			0.406	10.31	67.60	100.60		10		*
			0.438	11.10	72.70	108.20				*
20	20.000	508.0	0.250	6.35	52.78	79.16				*
			0.281	7.14	59.23	87.70				*
			0.312	7.92	65.66	97.43				*
			0.344	8.74	72.28	107.12	STD	20		*
			0.375	9.53	78.67	116.78			*	*
			0.406	10.31	85.04	126.41			*	*
			0.438	11.10	91.39	136.01			*	*

SPECIFICATION FOR LINE PIPES – EN 10208-1, 2

Application: gas, water and oil transportation

Seamless line pipes

Pipe dimensions and weight

Outside diametr, mm	Weight per lenght unit, kg/m, wall thickness, mm																	Steel grade	
	3.6	4.0	4.5	5.0	5.6	6.3	7.1	8.0	8.8	10.0	11.0	12.5	14.2	16.0	17.5	20.0	22.2	EN 10208-1	EN 10208-2
33.7	2.67																	L210GA- L415GA	L245NB- L415NB
42.4	3.44																		
48.3	3.97																		
60.3	5.03	5.55	6.19	6.82	7.55														
73.0		6.81	7.60	8.38	9.31	10.36	11.54												
88.9		8.38	9.37	10.35	11.50	12.83	14.32	15.96											
101.6		9.63	10.78	11.91	13.26	14.81	16.55	18.47											
114.3		10.88	12.19	13.48	15.01	16.78	18.77	20.97	22.90	25.72	28.02								
168.3							28.23	31.63	34.61	39.04	42.67	48.03	53.96	60.10	65.08	73.15			
219.1						33.06	37.12	41.65	45.64	51.57	56.45	63.69	71.75	80.14	87.01	98.20	107.80		
273.0							46.56	52.28	57.34	64.86	71.07	80.30	90.63	101.41	110.27	124.79	137.31		
323.9								62.32	68.38	77.41	84.88	95.99	108.45	121.49	132.23	149.89	165.18		

Welded line pipes

Pipe dimensions and weight

Outside diametr, mm	Weight per lenght unit, kg/m, wall thickness, mm									Steel grade	
	4.50	5.00	5.60	6.30	7.10	8.0	8.80	10.0	11.0	EN 10208-1	EN 10208-2
219.1	23.82	26.40	29.50	33.10	37.12	41.65	45.64			L210GA- L485GA	L245NB/MB-L485NB/MB
273.0		33.05	36.90	41.40	46.60	52.30	57.30	64.86			
323.9			43.96	49.30	55.50	62.30	68.40	77.41			
355.6			48.30	54.30	61.00	68.60	75.30	85.23			
406.4				62.20	69.90	78.60	86.30	97.80	107.3		
508.0				77.94	87.70	98.64	108.30	122.81	134.8		



POLYETHYLENE COATED PIPES

DIN 30670 POLYETHYLENE COATING ON STEEL PIPES AND FITTINGS EXTERNAL

Coating execution:

N – normal execution (at temperatures of up to 50 °C);
S – special execution (at temperatures of up to 70 °C).

Coating thickness:

Pipe nominal outside diameter, mm	Coating thickness, at least, mm	
	Normal thickness (n)	Reinforced thickness (v)
From 100 to 250 inclusive	2.0	2.7
From 250 to 500 inclusive	2.2	2.9
From 500 to 530 inclusive	2.5	3.2

Pipe length: 10-12 m

Coating requirements:

Coating characteristics	Norm	
	Execution type	
	Normal	Special
Dielectric continuity, kV, no less than	Lack of electric current in 25 kV	
Impact strength of (23±2) °C, J but no less, for the tubes in diameter: - 200 mm and over - up to 200 mm	5 4.25	5 4.25
Adherence of coating to steel l/cm, no less than temperature: - (20±5) °C - (50±5) °C	35 15	35 25



EN ISO 21809

EXTERNAL THREE-LAYER POLYETHYLENE AND POLYPROPYLENE COATING

Coating thickness:

Weight of 1 meter of pipe Pm/m (kg/m)	Total coating thickness, at least, mm					
	Class B1	Class B2	Class B3	Class C1	Class C2	Class C3
Pm ≤ 15	1.3	1.8	2.3	1.3	1.7	2.1
15< Pm ≤ 50	1.5	2.1	2.7	1.5	1.9	2.4
50< Pm ≤ 130	1.8	2.5	3.1	1.8	2.3	2.8

Coating type:

Coating classes:

Class B – used for application at pipeline service temperatures from minus 20 °C to plus 60 °C.

Class C – used for application at pipeline service temperatures from minus 40 °C to plus 80 °C.

Acceptance testing of pipes with coating:

- external appearance of coating check;
- length measuring of bare ends;
- taper angle measuring coating to the pipe’s body;
- dielectric coating integrity testing;
- thickness of coating testing;
- strength test of coating with the impact up to (23±3) °C;

Peel force control:

Class B – at temperatures of plus 23 °C and plus 60 °C;

Class C – at temperatures of plus 23 °C and plus 80 °C;

- cathodic disbondment test;
- hot water coating test.



EN 10288

EXTERNAL TWO-LAYER POLYETHYLENE COATING

Coating thickness:

Composition of the coating	Tube nominal outside diameter, mm	Coating thickness class, mm, at least		
		1	2	3
Two-layer polyethylene coating	Up to 114.3 inclusive	1.5	1.8	2.5
	From 114 to 273 inclusive	1.8	2.0	2.7
	From 273 to 508 inclusive	2.0	2.2	2.9
	From 508 to 762 inclusive	2.2	2.5	3.2

Coating type:

Type 1 – at service temperatures up to plus 60 °C;
Type 2 – at service temperatures up to plus 30 °C;

Acceptance testing of pipes with coating:

- external appearance of coating check;
- length measuring of bare ends;
- taper angle measuring coating to the pipe’s body;
- dielectric coating integrity testing;
- thickness of coating testing;
- strength test of coating with the impact up to (20±5) °C;
- peel force control at temperatures of plus (23±2) °C and plus (60±2) °C.





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