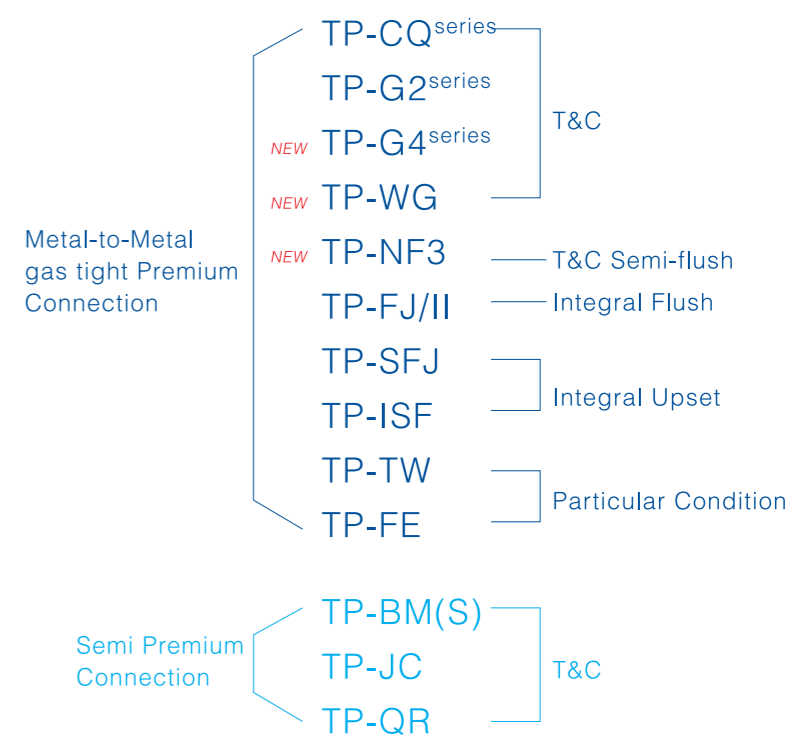




# Semi-Premium TP-JC



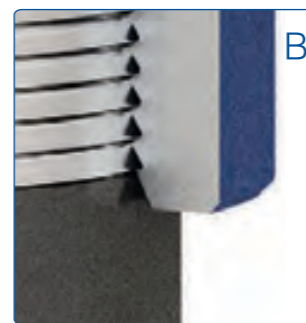
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TP-JC 1.9in~5-1/2in

- Original design, first zigzag thread structure
- Joint efficiency is 100% rated to pipe body strength
- EU connection replarceable, good performance
- High productivity, field repair friendly
- ISO 13679:2002 CAL II qualified



Zigzag thread  
Lead=8T.P.I Taper=1:16



Thread cutting retract naturally

Description

1.1 Tensile strength not less than pipe body yield strength

The thread profile with 3 degree on the load flank, which meets mechanical locking condition. The thread critical section nearly equals to that of pipe body, which enhanced the joint strength.

Under the tension failure test, the pipe body fractured but TP-JC thread connection no damaged, in contrast, API round thread slipped out with the same load.

1.2 Excellent seal ability

The thread designed with ultrathin clearance (the clearance between thread crest and root is 0.03mm), which minimizes the leakage path. The clearance of API round thread is 0.076mm.

Designed with optimized thread parameters and appropriate torque, the distribution of contact stress between pin and box surface is at relatively reasonable level, even though the high pressure between pin and box, but the stress spreads to contacts averagely without concentration, which improves the leakage resistance ability.

3.1 Qualification Test @ TGRC

TGRC=CNPC Tubular Good Research Center

Grade	OD	Wt	Lab	Test Spec.	Result
N80	5.5 in	5.5inx20# (139.70x9.17 mm)	TGRC	API 5C5 + TGRC Spec	Pass



3.2 Qualification Test @TPCO

Grade	OD	Wt	Lab	Test Spec.	Result
TP80S	2 7/8in	73.02*5.51mm	TPCO	API 5C5	Pass
TP110S	3 1/2in	88.90*6.45mm	TPCO	API 5C5	Pass
P110	4.5 in	114.30*7.37mm	TPCO	ISO 13679:2002	Pass
J55	5.5in	139.70*7.72mm	TPCO	API 5C5	Pass
N80	5.5 in	139.70*9.17mm	TPCO	API 5C5	Pass
P110	5.5 in	139.70*10.54mm	TPCO	API 5C5	Pass

4. TP-JC Typical Application Cases

User	Northwest Oilfield Sinopec					
Location	Tahе Oilfield					
Size	TP110S/3-1/2"×9.20# (88.9×6.45 mm)					
Connection	TP-JC					
Well NO.	TH12410	TH12226	TOP19X	TK767	TH12219	TK262
MD	5539m	5510	5798m	5499.8m	6000m	5500m

Imperial Units

Size (OD)		Nominal weight	Wall thickness		Standard Drift	Coupling OD	Make up loss	Coupling length	Tension Efficiency	Yield strength(1000lb.)						External pressure(psi)						Minimum internal yield pressure(psi)					
inch	mm	lb./ft	inch	mm	inch	inch	inch	inch	%	55ksi	80ksi	95ksi	110ksi	125ksi	140ksi	55ksi	80ksi	95ksi	110ksi	125ksi	140ksi	55ksi	80ksi	95ksi	110ksi	125ksi	140ksi
1.9	48.26	3.65	0.2	5.08	1.406	2.283	2.165	5.118	100	59	85	101	117	134	150	10360	15070	17890	20720	23550	26370	10130	14740	17500	20260	23030	25790
2-3/8	60.32	4.00	0.167	4.24	1.947	2.875	2.559	5.906	100	64	93	110	127	145	162	7190	9980	11410	12740	13980	15110	6770	9840	11690	13540	15380	17230
		4.60	0.190	4.83	1.901	2.875	2.559	5.906	100	72	104	124	143	163	183	8100	11780	13980	16130	17900	19580	7710	11200	13300	15400	17500	19600
		5.80	0.254	6.45	1.773	2.875	2.559	5.906	100	93	135	161	186	212	237	10510	15280	18150	21010	23880	26740	10290	14970	17780	20590	23390	26200
		6.60	0.295	7.49	1.691	2.875	2.559	5.906	100	106	154	183	212	241	270	11960	17410	20670	23930	27200	30460	11950	17390	20650	23910	27170	30430
		7.35	0.336	8.53	1.609	2.875	2.559	5.906	100	118	172	204	237	269	301	13360	19430	23080	26720	30360	34010	13610	19810	23520	27230	30950	34660
2-7/8	73.02	6.40	0.217	5.51	2.347	3.500	2.953	6.693	100	100	145	172	199	227	254	7670	11170	12940	14550	16070	17490	7260	10570	12550	14530	16510	18490
		7.80	0.276	7.01	2.229	3.500	2.953	6.693	100	124	180	214	248	282	316	9550	13890	16490	19090	21700	24300	9240	13440	15960	18480	21000	23520
		8.60	0.308	7.82	2.165	3.500	2.953	6.693	100	137	199	236	273	311	348	10520	15300	18170	21040	23910	26780	10310	15000	17810	20620	23430	26250
		9.35	0.340	8.64	2.101	3.500	2.953	6.693	100	149	217	257	298	339	379	11480	16680	19810	22940	26070	29200	11390	16560	19660	22770	25870	28970
		10.50	0.392	9.96	1.997	3.500	2.953	6.693	100	168	245	291	336	382	428	12960	18840	22370	25910	29440	32970	13130	19090	22670	26250	29830	33410
3-1/2	88.90	11.50	0.440	11.18	1.901	3.500	2.953	6.693	100	185	269	320	370	421	471	14260	20740	24630	28520	32410	36290	14740	21430	25440	29460	33480	37500
		7.70	0.216	5.49	2.943	4.250	3.150	7.087	100	123	178	212	245	279	312	5980	7870	8850	9730	10500	11140	5940	8640	10260	11880	13500	15120
		9.20	0.254	6.45	2.867	4.250	3.150	7.087	100	142	207	246	285	324	363	7400	10540	12080	13530	14890	16150	6980	10160	12070	13970	15880	17780
		10.20	0.289	7.34	2.797	4.250	3.150	7.087	100	160	233	277	321	364	408	8330	12120	14390	16670	18940	20770	7950	11560	13730	15900	18060	20230
		12.70	0.375	9.52	2.625	4.250	3.150	7.087	100	202	295	350	405	460	515	10520	15310	18180	21050	23920	26790	10310	15000	17810	20630	23440	26250
		14.30	0.430	10.92	2.515	4.250	3.150	7.087	100	228	332	394	456	518	581	11850	17240	20480	23710	26940	30170	11820	17200	20430	23650	26880	30100
		15.50	0.476	12.09	2.423	4.250	3.150	7.087	100	249	362	430	497	565	633	12930	18800	22330	25850	29380	32900	13090	19040	22610	26180	29750	33320
17.00	0.530	13.46	2.315	4.250	3.150	7.087	100	272	396	470	544	618	692	14130	20560	24410	28270	32120	35980	14570	21200	25180	29150	33130	37100		
4	101.60	9.50	0.226	5.74	3.423	4.750	3.346	7.480	100	147	214	255	295	335	375	5110	6590	7310	7910	8390	8730	5440	7910	9390	10880	12360	13840
		10.70	0.262	6.65	3.351	4.750	3.346	7.480	100	169	246	292	338	385	431	6590	8800	9980	11060	12030	12890	6300	9170	10890	12610	14330	16050
		13.20	0.330	8.38	3.215	4.750	3.346	7.480	100	209	304	361	419	476	533	8320	12110	14380	16650	18910	20740	7940	11550	13720	15880	18050	20210
		16.10	0.415	10.54	3.045	4.750	3.346	7.480	100	257	374	444	514	584	654	10230	14880	17670	20460	23250	26040	9980	14530	17250	19970	22700	25420
		18.90	0.500	12.70	2.875	4.750	3.346	7.480	100	302	440	522	605	687	770	12030	17500	20780	24060	27340	30630	12030	17500	20780	24060	27340	30630
		22.20	0.610	15.49	2.655	4.750	3.346	7.480	89.3	319	464	551	639	726	813	14210	20670	24560	28430	32310	36190	14670	21340	25350	29360	33360	37360
4-1/2	114.30	12.60	0.271	6.88	3.833	5.200	3.543	7.874	100	198	288	342	396	450	504	5720	7500	8410	9210	9890	10450	5790	8430	10010	11590	13170	14750
		15.20	0.337	8.56	3.701	5.200	3.543	7.874	100	242	353	419	485	551	617	7620	11080	12760	14340	15830	17220	7210	10480	12450	14420	16380	18350
		17.00	0.380	9.65	3.615	5.200	3.543	7.874	100	270	393	467	541	615	689	8500	12370	14690	17010	19330	21630	8130	11820	14040	16260	18470	20690
		18.90	0.430	10.92	3.515	5.200	3.543	7.874	100	302	440	522	605	687	770	9510	13830	16420	19010	21610	24200	9200	13380	15890	18390	20900	23410
		21.50	0.500	12.70	3.375	5.200	3.543	7.874	97.7	338	491	583	675	767	859	10860	15800	18770	21730	24690	27650	10690	15560	18470	21390	24310	27220
		23.70	0.560	14.22	3.255	5.200	3.543	7.874	88.6	338	491	583	675	767	859	11980	17430	20700	23970	27240	30510	11970	17420	20690	23960	27220	30490
5	127.00	11.50	0.220	5.59	4.435	5.800	3.740	8.465	100	182	264	314	364	413	463	3060	3560	3900	4150	4310	4380	4240	6160	7320	8470	9630	10780
		13.00	0.253	6.43	4.369	5.800	3.740	8.465	100	208	302	359	415	472	529	4150	5140	5560	5850	6050	6370	4870	7090	8420	9750	11080	12400
		15.00	0.296	7.52	4.283	5.800	3.740	8.465	100	241	350	416	481	547	613	5560	7250	8110	8860	9480	9990	5700	8290	9840	11400	12950	14510
		18.00	0.362	9.19	4.151	5.800	3.740	8.465	100	290	422	501	580	659	738	7380	10480	12010	13460	102.1	16060	6960	10130	12030	13930	109.1	17730
		21.40	0.437	11.10	4.001	5.800	3.740	8.465	100	345	501	595	689	783	877	8770	12760	15150	17550	19940	22330	8410	12240	14530	16820	19120	21410
		23.20	0.478	12.14	3.919	5.800	3.740	8.465	100	373	543	645	747	849	951	9510	13830	16430	19020	21610	24210	9200	13380	15890	18400	20910	23420
		24.10	0.500	12.70	3.875	5.800	3.740	8.465	100	389	565	672	778	884	990	9900	14400	17100	19800	22500	25200	9630	14000	16630	19250	21880	24500
5-1/2	139.7	15.50	0.275	6.98	4.825	6.30	3.94	8.86	100.0	248	361	429	496	564	632	4040	4980	5370	5620	5880	5170	4810	6990	8310	9620	10930	12240
		17.00	0.304	7.72	4.767	6.30	3.94	8.86	100.0	273	397	471	546	620	695	4910	6280	6940	7470	7880	8170	5320	7740	9190	10640	12090	13540
		20.00	0.361	9.17	4.653	6.30	3.94	8.86	100.0	321	466	554	641	729	816	6620	8830	10020	11100	12090	12960	6320	9190	10910	12640	14360	16080
		23.00	0.415	10.54	4.545	6.30	3.94	8.86	100.0	365	530	630	729	829	928	7670	11160	12930	14540	16060	17490	7260	10560	12540	14520	16500	18480
		26.80	0.500	12.70	4.375	6.30</																					

Metric Units

Size (OD)		Nominal weight	Wall thickness		Standard Drift	Standard Coupling OD	Make up loss	Coupling length	Tension Efficiency	Yield strength(KN)						External pressure(MPa)						Minimum internal yield pressure(MPa)					
inch	mm	lb./ft	inch	mm	mm	mm	mm	mm	%	55ksi	80ksi	95ksi	110ksi	125ksi	140ksi	55ksi	80ksi	95ksi	110ksi	125ksi	140ksi	55ksi	80ksi	95ksi	110ksi	125ksi	140ksi
1.9	48.26	3.65	0.2	5.08	35.72	58	55	130	100	261	380	451	523	594	665	71.4	103.9	123.3	142.9	162.4	181.8	69.8	101.6	120.7	139.7	158.8	177.8
2-3/8	60.32	4.00	0.167	4.24	49.46	73.02	65.00	150.00	100	283	414	489	565	644	721	49.6	68.8	78.7	87.8	96.4	104.2	46.6	67.8	80.6	93.4	106.0	118.8
		4.60	0.190	4.83	48.28	73.02	65.00	150.00	100	319	463	552	636	726	814	55.9	81.2	96.4	111.2	123.4	135.0	53.1	77.2	91.7	106.2	120.7	135.1
		5.80	0.254	6.45	45.04	73.02	65.00	150.00	100	414	601	716	827	941	1054	72.4	105.4	125.1	144.9	164.6	184.4	71.0	103.2	122.6	142.0	161.3	180.6
		6.60	0.295	7.49	42.95	73.02	65.00	150.00	100	471	685	814	943	1071	1201	82.5	120.0	142.5	165.0	187.5	210.0	82.4	119.9	142.4	164.9	187.3	209.8
		7.35	0.336	8.53	40.87	73.02	65.00	150.00	100	526	765	907	1054	1196	1339	92.1	134.0	159.1	184.2	209.3	234.5	93.8	136.6	162.2	187.7	213.4	239.0
2-7/8	73.02	6.40	0.217	5.51	59.62	88.90	75.00	170.00	100	443	645	765	885	1007	1130	52.9	77.0	89.2	100.3	110.8	120.6	50.1	72.9	86.5	100.2	113.8	127.5
		7.80	0.276	7.01	56.62	88.90	75.00	170.00	100	551	801	952	1103	1253	1406	65.8	95.8	113.7	131.6	149.6	167.5	63.7	92.7	110.0	127.4	144.8	162.2
		8.60	0.308	7.82	54.99	88.90	75.00	170.00	100	607	885	1050	1214	1380	1548	72.5	105.5	125.3	145.1	164.9	184.6	71.1	103.4	122.8	142.2	161.5	181.0
		9.35	0.340	8.64	53.37	88.90	75.00	170.00	100	663	965	1143	1326	1506	1686	79.1	115.0	136.6	158.2	179.7	201.3	78.5	114.2	135.6	157.0	178.4	199.7
		10.50	0.392	9.96	50.72	88.90	75.00	170.00	100	748	1090	1294	1495	1701	1904	89.3	129.9	154.2	178.6	203.0	227.3	90.5	131.6	156.3	181.0	205.7	230.4
		11.50	0.440	11.18	48.29	88.90	75.00	170.00	100	824	1197	1423	1646	1872	2095	98.3	143.0	169.8	196.6	223.5	250.2	101.6	147.8	175.4	203.1	230.8	258.6
3-1/2	88.90	7.70	0.216	5.49	74.74	107.95	80.00	180.00	100	546	794	942	1090	1240	1388	41.2	54.3	61.1	67.1	72.4	76.8	41.0	59.6	70.8	81.9	93.1	104.2
		9.20	0.254	6.45	72.82	107.95	80.00	180.00	100	634	921	1094	1268	1440	1615	51.0	72.7	83.3	93.3	102.7	111.4	48.1	70.1	83.2	96.3	109.5	122.6
		10.20	0.289	7.34	71.04	107.95	80.00	180.00	100	713	1036	1232	1428	1621	1815	57.4	83.6	99.2	114.9	130.6	143.2	54.8	79.7	94.7	109.6	124.5	139.5
		12.70	0.375	9.52	66.68	107.95	80.00	180.00	100	900	1312	1557	1802	2046	2291	72.5	105.6	125.3	145.1	164.9	184.7	71.1	103.4	122.8	142.2	161.6	181.0
		14.30	0.430	10.92	63.88	107.95	80.00	180.00	100	1014	1477	1753	2028	2306	2584	81.7	118.9	141.2	163.5	185.7	208.0	81.5	118.6	140.9	163.1	185.3	207.5
		15.50	0.476	12.09	61.54	107.95	80.00	180.00	100	1106	1610	1913	2211	2514	2816	89.1	129.6	154.0	178.2	202.6	226.8	90.2	131.3	155.9	180.5	205.1	229.7
		17.00	0.530	13.46	58.80	107.95	80.00	180.00	100	1210	1760	2091	2420	2749	3078	97.4	141.8	168.3	194.9	221.5	248.1	100.5	146.2	173.6	201.0	228.4	255.8
4	101.60	9.50	0.226	5.74	86.94	120.65	85.00	190.00	100	656	952	1134	1312	1490	1668	35.2	45.4	50.4	54.5	57.8	60.2	37.5	54.5	64.7	75.0	85.2	95.4
		10.70	0.262	6.65	85.12	120.65	85.00	190.00	100	752	1094	1299	1503	1710	1917	45.4	60.7	68.8	76.3	82.9	88.9	43.4	63.2	75.1	86.9	98.8	110.7
		13.20	0.330	8.38	81.66	120.65	85.00	190.00	100	931	1352	1606	1864	2115	2371	57.4	83.5	99.1	114.8	130.4	143.0	54.7	79.6	94.6	109.5	124.5	139.3
		16.10	0.415	10.54	77.34	120.65	85.00	190.00	100	1143	1664	1975	2286	2599	2909	70.5	102.6	121.8	141.1	160.3	179.5	68.8	100.2	118.9	137.7	156.5	175.3
		18.90	0.500	12.70	73.03	120.65	85.00	190.00	100	1345	1957	2322	2691	3057	3425	82.9	120.7	143.3	165.9	188.5	211.2	82.9	120.7	143.3	165.9	188.5	211.2
		22.20	0.610	15.49	67.44	120.65	85.00	190.00	89.4	1419	2064	2451	2842	3229	3616	98.0	142.5	169.3	196.0	222.8	249.5	101.1	147.1	174.8	202.4	230.0	257.6
4-1/2	114.30	12.60	0.271	6.88	97.36	132.08	90.00	200.00	100	880	1281	1521	1761	2001	2242	39.4	51.7	58.0	63.5	68.2	72.1	39.9	58.1	69.0	79.9	90.8	101.7
		15.20	0.337	8.56	94.01	132.08	90.00	200.00	100	1078	1570	1864	2157	2451	2745	52.5	76.4	88.0	98.9	109.1	118.7	49.7	72.3	85.8	99.4	112.9	126.5
		17.00	0.380	9.65	91.82	132.08	90.00	200.00	100	1203	1748	2077	2406	2734	3065	58.6	85.3	101.3	117.3	133.3	149.1	56.1	81.5	96.8	112.1	127.3	142.7
		18.90	0.430	10.92	89.28	132.08	90.00	200.00	100	1345	1957	2322	2691	3057	3425	65.6	95.4	113.2	131.1	149.0	166.9	63.4	92.3	109.6	126.8	144.1	161.4
		21.50	0.500	12.70	85.73	132.08	90.00	200.00	97.7	1502	2184	2594	3004	3413	3823	74.9	108.9	129.4	149.8	170.2	190.6	73.7	107.3	127.3	147.5	167.6	187.7
		23.70	0.560	14.22	82.68	132.08	90.00	200.00	88.6	1502	2184	2594	3004	3413	3823	82.6	120.2	142.7	165.3	187.8	210.4	82.5	120.1	142.7	165.2	187.7	210.2
5	127.00	11.50	0.220	5.59	112.64	147.32	95.00	215.00	100	809	1176	1397	1617	1838	2058	21.1	24.5	26.9	28.6	29.7	30.2	29.2	42.5	50.5	58.4	66.4	74.3
		13.00	0.253	6.43	110.96	147.32	95.00	215.00	100	924	1343	1595	1847	2099	2351	28.6	35.4	38.3	40.3	41.7	43.9	33.6	48.9	58.1	67.2	76.4	85.5
		15.00	0.296	7.52	108.78	147.32	95.00	215.00	100	1070	1557	1849	2141	2433	2725	38.3	50.0	55.9	61.1	65.4	68.9	39.3	57.2	67.8	78.6	89.3	100.0
		18.00	0.363	9.19	105.44	147.32	95.00	215.00	100	1290	1876	2228	2580	2931	3283	50.9	72.3	82.8	92.8	102.1	110.7	48.0	69.8	82.9	96.0	109.1	122.2
		21.40	0.437	11.10	101.62	147.32	95.00	215.00	100	1533	2229	2647	3065	3483	3901	60.5	88.0	104.5	121.0	137.5	154.0	58.0	84.4	100.2	116.0	131.8	147.6
		23.20	0.478	12.14	99.54	147.32	95.00	215.00	100	1661	2416	2869	3322	3775	4228	65.6	95.4	113.3	131.1	149.0	166.9	63.4	92.3	109.6	126.9	144.2	161.5
		24.10	0.500	12.70	98.42	147.32	95.00	215.00	100	1729	2515	2987	3459	3930	4402	68.3	99.3	117.9	136.5	155.1	173.7	66.4	96.5	114.7	132.7	150.9	168.9
5-1/2	139.7	15.50	0.275	6.98	122.56	160.02	100.00	225.00	100.0	1104	1605	1906	2207	2508	2809	27.9	34.3	37.0	38.7	40.5	42.5	33.2	48.2	57.3	66.3	75.4	84.4
		17.00	0.304	7.72	121.08	160.02	100.00	225.00	100.0	1214	1766	2097	2428	2759	3090	33.9	43.3	47.8	51.5	54.3	56.3	36.7	53.4	63.4	73.4	83.4	93.4
		20.00	0.361	9.17	118.18	160.02	100.00	225.00	100.0	1426	2074	2463	2852	3241	3630	45.6	60.9	69.1	76.5	83.4	89.4	43.6	63.4	75.2	87.1	99.0	110.9
		23.00	0.415	10.54	115.44	160.02	100.00	225.00	100.0	1622	2359	2801	3244	3686	4128	52.9	76.9										