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2015



TPCO

Premium Connection

TP-G2

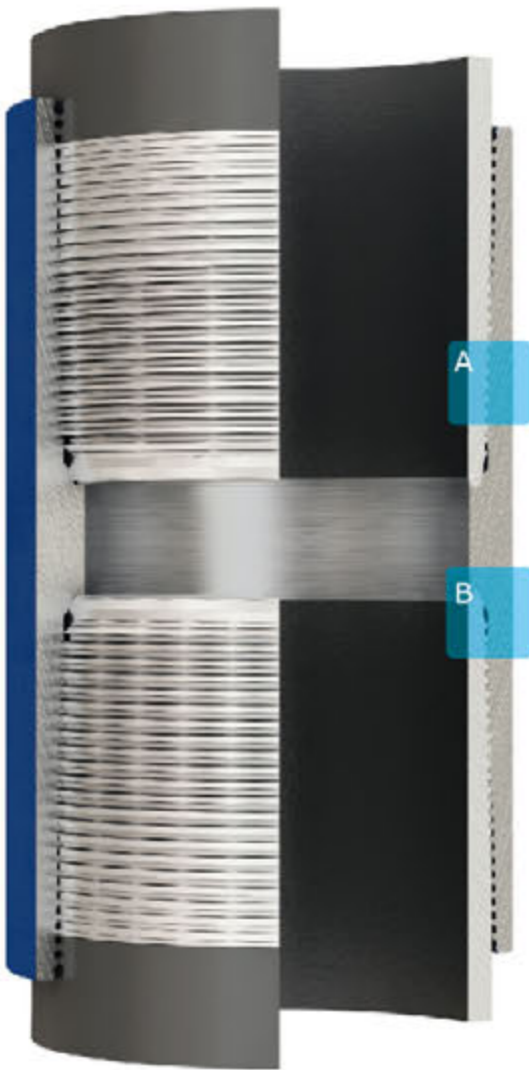
TP-CQ ^{Series}	Premium Connection
TP-G2 ^{Series}	Premium Connection
TP-NF	Premium Connection
TP-FJ	Premium Connection
TP-BM	Semi-Premium
TP-QR	Semi-Premium
TP-TS	Semi-Premium
TP-JC	Semi-Premium

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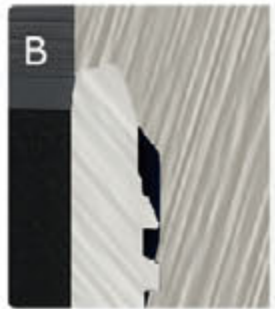
TP-G2 | 2-3/8" ~ 20"

Gas-tight premium connection for the deep, high deviated and horizontal well
 ISO 13679 CAL IV approved

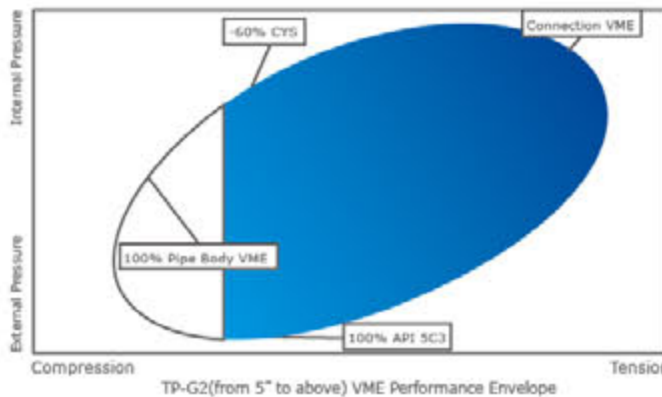
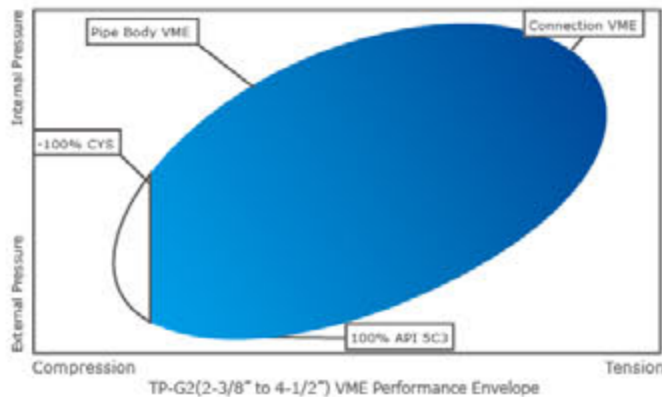
- Excellent resistance to bending, compression and torque
- Superior anti-galling performance
- Reliable gas-tight sealing under any kind of combined loads
- Especially suitable for highly deviated and long horizontal wells
- Suitable for high alloy & carbon steel pipes



Hooked Thread
 TBG: 2-3/8in~2-7/8in: 8T.P.I.
 3-1/2in~4-1/2in: 6T.P.I.
 CSG: 5in~8-5/8in: 5T.P.I.
 9-5/8in~20in: 4T.P.I.



Large angle Metal-to-Metal seal
 Reverse angle torque shoulder
 Internal flush



Description

Threaded Connection

A modified hook thread profile with 4° reverse angle on the load flank, not only provide the connection with superior tension strength but also increase its resistance to compression. The excellent structural strength including increased bending and compression resistance, it makes this connection especially suitable for highly deviated and long horizontal wells. Optimized thread geometry will minimize the risk of galling, even when thread compounds are poorly applied.

Metal-to-Metal Seal

Large angle metal-to-metal seal system offers excellent gas-tight sealing, even under the most severe combined loads. The seal integrity remains constant after repeated make-ups and break-outs.

Reverse Angle Torque Shoulder

A reverse angle torque shoulder provides a positive torque stop which allows for accurate power-tight make-up and minimizes hoop stresses in the connection. The "wedge" effect caused by the reverse angle gives the connection superior structural strength. The shoulder design is optimized in order to resist adverse conditions such as combined compression and external pressure or combined bending, compression and torque.

Streamlined Internal Profile

A pin ID chamfer, tight tolerances on the coupling center combined with a long shoulder will minimize turbulence and energy loss inside the connection for high-velocity gas flows.

Coupling Design

The 100% efficient connection performance has been engineered based on factors such as: the coverage of the vanishing threads, long internal shoulder, and coupling critical cross sections greater than those of the pipe body.

Connection Low Stress Design

Connection low stress design can ensure that it can be safe under the corrosive environment.

Options

- TP-G2 HT High torque
- TP-G2 HC High compression
- TP-G2 (SB) Special bevel

TP-G2 | T&C | 2-7/8"~9-5/8"

Imperial Unit

Size (OD)	Nominal weight	Wall thickness		Drift	Coupling OD	Make up loss	Coupling length	Pipe body section	Coupling CSS	Yield strength(1000lb.)						External pressure(psi)						Minimum internal yield pressure(psi)								
		inch	mm							80ksi	90ksi	95ksi	100ksi	110ksi	125ksi	140ksi	80psi	90psi	95psi	100psi	110psi	125psi	140psi	80ksi	90ksi	95ksi	100ksi	110ksi	125ksi	140ksi
2-7/8 73.02	6.40	0.217	5.51	2.347	3.307	2.937	6.661	1.812	1.933	145	163	172	181	199	217	254	11160	12380	12930	13470	14540	16060	17490	10570	11890	12550	13210	14530	16510	18490
3-1/2 88.90	9.20	0.254	6.45	2.867	3.937	3.110	7.244	2.590	2.993	207	233	246	259	285	311	363	10540	11570	12080	12580	13530	14890	16150	10160	11430	12070	12700	13970	15880	17780
	10.20	0.289	7.34	2.797	3.976	3.110	7.244	2.915	3.238	233	262	277	292	321	350	408	12120	13630	14390	15150	16660	18940	20770	11560	13010	13730	14450	15900	18060	20230
	12.70	0.375	9.53	2.625	4.055	3.740	8.504	3.683	3.951	295	331	350	368	405	442	516	15310	17230	18180	19140	21060	23930	26800	15010	16880	17820	18760	20640	23450	26260
4-1/2 114.30	10.50	0.224	5.69	3.927	4.827	3.268	7.481	3.009	2.957	237	266	281	296	325	355	414	4930	5200	5310	5400	5550	5830	6110	6970	7840	8280	8710	9580	10890	12200
	11.60	0.250	6.35	3.875	4.871	3.268	7.481	3.338	3.293	263	296	313	329	362	395	461	6350	6820	7030	7220	7580	8000	8300	7780	8750	9240	9720	10690	12150	13610
	12.60	0.271	6.88	3.833	4.906	3.268	7.481	3.599	3.562	285	321	338	356	392	427	499	7490	8110	8400	8680	9200	9880	10440	8430	9480	10010	10530	11590	13170	14750
	13.50	0.290	7.37	3.795	4.937	3.268	7.481	3.835	3.803	304	342	361	380	418	456	532	8540	9300	9660	10020	10690	11600	12400	9020	10150	10710	11280	12410	14100	15790
	15.10	0.337	8.56	3.701	4.969	4.056	9.056	4.407	4.388	351	395	417	439	483	527	614	11080	12220	12760	13300	14340	15830	17220	10480	11800	12450	13110	14420	16380	18350
	17.00	0.380	9.65	3.615	5.035	4.056	9.056	4.917	4.907	393	442	466	491	540	589	687	12370	13920	14690	15460	17010	19330	21630	11820	13300	14040	14770	16250	18470	20680
	17.70	0.402	10.21	3.571	5.068	4.056	9.056	5.175	5.170	414	465	491	517	569	620	724	13020	14640	15460	16270	17900	20340	22780	12510	14070	14850	15630	17200	19540	21890
18.90	0.430	10.92	3.515	5.109	4.056	9.056	5.498	5.500	440	495	522	550	605	660	770	13830	15560	16420	17280	19010	21610	24200	13380	15050	15890	16720	18390	20900	23410	
5 127.00	13.00	0.253	6.43	4.369	5.393	4.524	10.228	3.775	3.923	302	340	359	378	415	453	529	5140	5440	5560	5680	5850	6050	6370	7090	7970	8420	8860	9750	11080	12400
	15.00	0.296	7.52	4.283	5.465	4.524	10.228	4.375	4.538	350	394	416	438	481	525	613	7250	7830	8110	8370	8850	9480	9980	8290	9330	9840	10360	11400	12950	14510
	18.00	0.362	9.19	4.151	5.571	4.524	10.228	5.272	5.456	422	474	501	527	580	633	738	10500	11520	12020	12520	13470	14820	16070	10130	11400	12030	12660	13930	15830	17730
	20.30	0.408	10.36	4.059	5.642	4.524	10.228	5.884	6.083	471	530	559	588	647	706	824	11990	13490	14240	14990	16490	18550	20320	11420	12850	13560	14280	15700	17840	19990
	20.80	0.422	10.72	4.031	5.663	4.524	10.228	6.070	6.272	486	546	577	607	668	728	850	12360	13910	14680	15460	17000	19320	21610	11820	13290	14030	14770	16250	18460	20680
	21.40	0.437	11.10	4.001	5.686	4.524	10.228	6.264	6.472	501	564	595	626	689	752	877	12760	14360	15150	15950	17550	19940	22330	12240	14530	15300	16820	19120	21410	
	23.20	0.478	12.14	3.919	5.746	4.524	10.228	6.790	7.009	543	611	645	679	747	815	951	13830	15560	16430	17290	19020	21620	24210	13380	15060	15890	16730	18400	20910	23420
24.10	0.500	12.70	3.875	5.777	4.524	10.228	7.068	7.294	565	636	671	707	778	848	990	14400	16200	17100	18000	19800	22500	25200	14000	15750	16630	17500	19250	21880	24500	
5-1/2 139.70	15.50	0.275	6.98	4.825	5.930	4.628	10.438	4.511	4.614	361	406	429	451	496	541	632	4980	5250	5370	5470	5620	5880	6170	6990	7870	8310	8740	9620	10930	12240
	17.00	0.304	7.72	4.767	5.979	4.628	10.438	4.961	5.075	397	447	471	496	546	595	695	6290	6730	6940	7140	7480	7890	8170	7740	8700	9190	9670	10640	12090	13540
	20.00	0.361	9.17	4.653	6.073	4.628	10.438	5.828	5.965	466	525	554	583	641	699	816	8830	9630	10020	10400	11110	12090	12950	9190	10340	10910	11490	12640	14360	16080
	23.00	0.415	10.54	4.545	6.158	4.628	10.438	6.629	6.782	530	597	630	663	729	795	928	11160	12380	12930	13480	14540	16060	17480	10560	11880	12540	13200	14520	16500	18480
	26.00	0.476	12.09	4.423	6.252	4.628	10.438	7.512	7.699	601	676	714	751	826	901	1052	12650	14230	15020	15810	17390	19760	22140	12120	13630	14390	15140	16660	18930	21200
	26.80	0.500	12.70	4.375	6.287	4.628	10.438	7.854	8.048	628	707	746	785	864	942	1100	13220	14880	15700	16530	18180	20660	23140	12730	14320	15110	15910	17500	19890	22270
	28.40	0.530	13.46	4.315	6.331	4.628	10.438	8.274	8.477	662	745	786	827	910	993	1158	13930	15670	16540	17410	19150	21770	24380	13490	15180	16020	16860	18550	21080	23610
29.70	0.562	14.27	4.251	6.376	4.628	10.438	8.716	8.929	697	784	828	872	959	1046	1220	14670	16510	17430	18340	20180	22930	25680	14300	16090	16980	17880	19660	22340	25030	
7 177.80	23.00	0.317	8.05	6.241	7.497	5.161	11.502	6.654	6.804	532	599	632	665	732	798	932	3830	4020	4140	4250	4440	4640	4760	6340	7130	7530	7920	8720	9900	11090
	26.00	0.362	9.19	6.151	7.574	5.161	11.502	7.545	7.713	604	679	717	755	830	905	1056	5400	5730	5880	6010	6220	6440	6680	7240	8140	8590	9050	9950	11310	12660
	29.00	0.408	10.36	6.059	7.651	5.161	11.502	8.447	8.635	676	760	802	845	929	1014	1183	7020	7570	7830	8080	8530	9100	9560	8160	9180	9690	10200	11220	12750	14280
	32.00	0.453	11.51	5.969	7.725	5.161	11.502	9.320	9.529	746	839	885	932	1025	1118	1305	8610	9380	9750	10110	10790	11720	12540	9060	10200	10760	11330	12460	14160	15860
	35.00	0.498	12.65	5.879	7.796	5.161	11.502	10.173	10.403	814	916	966	1017	1119	1221	1424	10190	11170	11650	12120	13030	14320	15500	9960	11210	11830	12450	13700	15560	17430
7-5/8 193.68	26.40	0.328	8.33	6.844	8.126	5.388	11.957	7.518	7.686	601	677	714	752	827	902	1053	3400	3610	3710	3790	3920	4050	4080	6020	6770	7150	7530	8280	9410	10540
	29.70	0.375	9.53	6.750	8.207	5.388	11.957	8.545	8.726	684	769	812	855	940	1025	1196	4790	5030	5130	5220	5350	5670	5930	6890	7750	8180	8610	9470	10760	12060
	33.70	0.430	10.92	6.640	8.300	5.388	11.957	9.718	9.936	777	875	923	972	1069	1166	1360	6560	7050	7270	7490	7870	8340	8690	7890	8880	9370	9870	10850	12330	13810
	35.80	0.465	11.81	6.570	8.358	5.388	11.957	10.458	10.693	837	941	994	1046	1150	1255	1464	7690	8330												