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2015



Premium Connection
TP-CQ

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

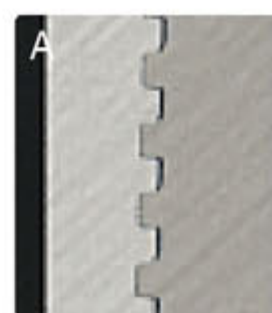
Tianjin Pipe (Group) Corporation

TP-CQ | 2-3/8" ~ 13-5/8"

High performance gas-tight premium connection for casing and tubing

ISO 13679 CAL IV approved

- Excellent gas seal-ability under combined load
- Easy stabbing, No cross threading
- Superior Anti-galling performance
- Easy repairing
- Suitable for low alloy & carbon steel pipe



Modified Buttress Thread
Taper=1:16
TBG: 2-3/8in~2-7/8in: 8T.P.I.
3-1/2in~4-1/2in: 6T.P.I.
CSG: 5in~13-5/8: 5T.P.I.



Metal-Metal Seal
Seal Taper: TBG: 1:1.732
CSG: 1:1.0; 1:6; 1:3
Reverse angel torque shoulder

Description

Threaded Connection

Improved Buttress thread with a taper of 1:16. The clearance at the top of the thread crests minimize thread galling and avoid the trapping of compound inside the threads.

Metal-to-Metal Seal

Metal-to-metal seal surface can provide enough contact length and pressure. The 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. Optimized thread geometry minimizes the risk of galling, even when thread compounds are poorly applied.

Reverse Angle Torque Shoulder

The reverse angle torque shoulder provides a positive torque stop, which allows accurate power tight make-up and minimizes hoop stresses in the connection. The wedge effect caused by the reverse angle gives the connection a 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

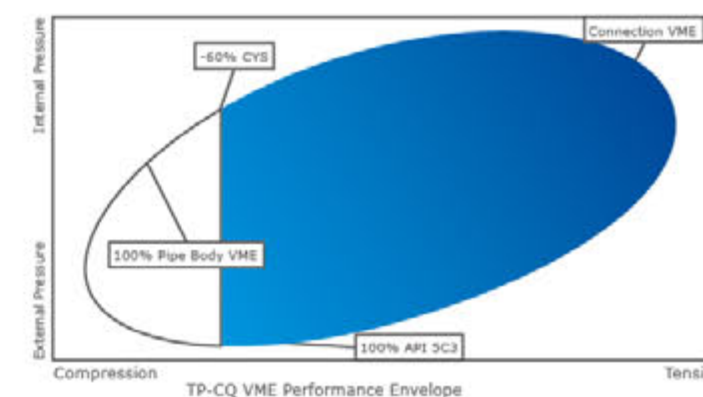
Joint efficiency is more than 100% and coupling critical section is greater than pipe body section. Because the coupling covers the vanishing threads therefore the connection tensile efficiency is maximized.

Connection Low Stress Design

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

Options

- TP-CQ HT High torque;
- TP-CQ HC High compression;
- TP-CQ (SB) Special bevel;
- TP-CQ (SC) Special clearance;
- TP-CQ (MS) Matched strength.



TP-CQ | T&C | 2-3/8"~7-3/4"

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
inch mm	lb./ft	inch	mm	inch	inch	inch	inch	sq.in.	sq.in.	80ksi	90ksi	95ksi	100ksi	110ksi	125ksi	140ksi	80psi	90psi	95psi	100psi	110psi	125psi	140psi	80ksi	90ksi	95ksi	100ksi	110ksi	125ksi	140ksi
2-3/8 60.32	4.60	0.190	4.83	1.901	2.795	2.520	6.024	1.304	1.903	104	117	124	130	143	163	183	11780	13260	13990	14730	16150	17930	19620	11200	12600	13300	14000	15400	17500	19600
2-7/8 73.02	6.40	0.217	5.51	2.347	3.307	2.835	6.654	1.812	2.367	145	163	172	181	199	227	254	11160	12380	12930	13480	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	3.346	7.874	2.590	2.974	207	233	246	259	285	324	363	10530	11570	12070	12570	13520	14880	16150	10160	11430	12070	12700	13970	15880	17780
4 101.60	12.70	0.375	9.52	2.625	4.134	3.346	7.874	3.682	4.222	295	331	350	368	405	460	515	15300	17210	18170	19120	21040	23900	26770	15000	16880	17810	18750	20630	23440	26250
	9.50	0.226	5.74	3.423	4.409	3.543	8.268	2.680	3.237	214	241	255	268	295	335	375	6590	7080	7310	7520	7910	8380	8740	7910	8900	9390	9890	10880	12360	13840
4-1/2 114.30	10.70	0.262	6.65	3.351	4.409	3.543	8.268	3.077	3.237	246	277	292	308	338	385	431	8790	9580	9960	10330	11040	12010	12870	9170	10320	10890	11460	12610	14330	16050
	12.60	0.271	6.88	3.833	5.000	3.937	9.055	3.600	4.484	288	324	342	360	396	450	504	7490	8110	8400	8680	9200	9880	10440	8430	9490	10010	10540	11590	13170	14750
	15.20	0.337	8.56	3.701	5.118	3.937	9.055	4.407	5.422	353	397	419	441	485	551	617	11090	12220	12770	13300	14340	15830	17230	10480	11800	12450	13110	14420	16380	18350
5 127.00	18.90	0.430	10.92	3.515	5.197	3.937	9.055	5.498	6.060	440	495	522	550	605	687	770	13830	15550	16420	17280	19010	21600	24190	13380	15050	15890	16720	18390	20900	23410
	15.00	0.296	7.52	4.283	5.563	4.764	10.512	4.374	5.178	350	394	416	437	481	547	612	7250	7830	8110	8370	8850	9480	9980	8290	9320	9840	10360	11400	12950	14500
	18.00	0.362	9.19	4.151	5.563	4.764	10.512	5.275	5.178	414	466	492	518	570	647	725	10500	11520	12020	12520	13470	14820	16070	10140	11400	12040	12670	13940	15840	17740
	20.30	0.408	10.36	4.059	5.563	4.764	10.512	5.886	5.178	414	466	492	518	570	647	725	11990	13490	14240	14990	16490	18550	20320	11420	12850	13570	14280	15710	17850	19990
	20.80	0.422	10.72	4.031	5.563	4.764	10.512	6.069	5.178	414	466	492	518	570	647	725	12360	13910	14680	15460	17000	19320	21610	11820	13290	14030	14770	16250	18460	20680
	21.40	0.437	11.10	4.001	5.563	4.764	10.512	6.264	5.178	414	466	492	518	570	647	725	12760	14360	15150	15950	17550	19940	22330	12240	13770	14530	15300	16820	19120	21410
5-1/2 139.70	23.20	0.478	12.14	3.919	5.563	4.764	10.512	6.791	5.178	414	466	492	518	570	647	725	13830	15560	16430	17290	19020	21620	24210	13380	15060	15890	16730	18400	20910	23420
	24.10	0.500	12.70	3.875	5.563	4.764	10.512	7.069	5.178	414	466	492	518	570	647	725	14400	16200	17100	18000	19800	22500	25200	14000	15750	16630	17500	19250	21880	24500
	17.00	0.304	7.72	4.767	6.181	4.843	10.709	4.962	6.806	397	447	471	496	546	620	695	6290	6730	6940	7140	7480	7890	8170	7740	8710	9190	9670	10640	12090	13540
	20.00	0.361	9.17	4.653	6.181	4.843	10.709	5.828	6.806	466	525	554	583	641	729	816	8830	9630	10020	10400	11110	12090	12950	9190	10340	10910	11490	12640	14360	16080
	23.00	0.415	10.54	4.545	6.181	4.843	10.709	6.630	6.806	530	597	630	663	729	829	928	11160	12380	12930	13480	14540	16060	17480	10560	11880	12540	13200	14530	16510	18490
6-5/8 168.28	26.00	0.476	12.09	4.423	6.181	4.843	10.709	7.513	6.806	544	613	647	681	749	851	953	12650	14230	15020	15810	17390	19760	22140	12120	13630	14390	15150	16660	18930	21200
	26.80	0.500	12.70	4.375	6.181	4.843	10.709	7.854	6.806	544	613	647	681	749	851	953	13220	14880	15700	16530	18180	20660	23140	12730	14320	15110	15910	17500	19890	22270
	20.00	0.288	7.32	5.924	7.402	5.039	11.260	5.734	9.832	459	516	545	573	631	717	803	3480	3700	3800	3880	4030	4170	4220	6090	6850	7230	7610	8370	9510	10650
	24.00	0.352	8.94	5.796	7.402	5.039	11.260	6.937	9.367	555	624	659	694	763	867	971	5760	6140	6310	6470	6730	7020	7180	7440	8370	8830	9300	10230	11620	13020
7 177.80	28.00	0.417	10.59	5.666	7.402	5.039	11.260	8.133	9.367	651	732	773	813	895	1017	1139	8170	8880	9220	9550	10160	11000	11710	8810	9910	10460	11020	12120	13770	15420
	32.00	0.475	12.07	5.550	7.402	5.039	11.260	9.177	9.367	734	826	872	918	1009	1147	1285	10320	11330	11820	12300	13230	14540	15750	10040	11290	11920	12550	13800	15680	17570
	23.00	0.317	8.05	6.241	7.717	5.236	11.969	6.656	9.260	532	599	632	666	732	832	932	3830	4030	4150	4250	4440	4650	4760	6340	7130	7530	7930	8720	9910	11100
	26.00	0.362	9.19	6.151	7.717	5.236	11.969	7.549	9.260	604	679	717	755	830	944	1057	5410	5740	5890	6020	6230	6450	6690	7240	8150	8600	9050	9960	11310	12670
	29.00	0.408	10.36	6.059	7.717	5.236	11.969	8.449	9.260	676	760	803	845	929	1056	1183	7030	7580	7840	8090	8530	9110	9560	8160	9180	9690	10200	11220	12750	14280
	32.00	0.453	11.51	5.969	7.717	5.236	11.969	9.317	9.260	741	833	880	926	1019	1158	1296	8610	9370	9740	10110	10780	11710	12530	9060	10190	10760	11330	12460	14160	15860
7-5/8 193.68	35.00	0.498	12.65	5.879	7.717	5.236	11.969	10.172	9.260	741	833	880	926	1019	1158	1296	10190	11170	11650	12130	13030	14320	15490	9960	11210	11830	12450	13700	15560	17430
	38.00	0.540	13.72	5.795	7.717	5.236	11.969	10.959	9.260	741	833	880	926	1019	1158	1296	11390	12810	13430	14010	15130	16740	18260	10800	12150	12830	13500	14850	16880	18900
	26.20	0.328	8.33	6.844	8.500	5.433	12.047	7.519	12.236	602	677	714	752	827	940	1053	3400	3610	3710	3790	3920	4050	4080	6020	6780	7150	7530	8280	9410	10540
	29.70	0.375	9.52	6.750	8.500	5.433	12.047	8.541	12.236	683	769	811	854	940	1068	1196	4790	5030	5130	5220	5350	5670	5930	6890	7750	8180	8610	9470	10760	12050
	33.70	0.430	10.92	6.640	8.500	5.433	12.047	9.720	12.236	778	875	923	972	1069	1215	1361	6560	7050	7270	7490	7870	8340	8690	7900	8880	9380	9870	10860	12340	13820
	35.80	0.465	11.81	6.570	8.500	5.433	12.047	10.460	12.236	837	941	994	1046	1151	1308	1464	7690	8330	8640	8930	9480	10200	10800	8540	9600	10140	10670	11740	13340	14940
	39.00	0.500	12.70	6.500	8.500	5.433	12.047	11.192	12.236	895	1007	1063	1119	1231																

TP-CQ | T&C | 8-5/8"~13-5/8"

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
8-5/8 219.08	28.00	0.304	7.72	7.892	9.625	5.591	12.677	7.947	15.694	636	715	755	795	874	993	1113	2160	2200	2210	2210	2210	2210	2210	4930	5550	5860	6170	6780	7710	8640
	32.00	0.352	8.94	7.796	9.625	5.591	12.677	9.149	15.694	732	823	869	915	1006	1144	1281	3050	3210	3290	3340	3420	3470	3470	5710	6430	6780	7140	7860	8930	10000
	36.00	0.400	10.16	7.700	9.625	5.591	12.677	10.336	15.694	827	930	982	1034	1137	1292	1447	4100	4250	4360	4470	4690	4930	5090	6490	7300	7710	8120	8930	10140	11360
	40.00	0.450	11.43	7.600	9.625	5.591	12.677	11.557	15.694	925	1040	1098	1156	1271	1445	1618	5530	5870	6020	6170	6400	6640	6830	7300	8220	8670	9130	10040	11410	12780
	44.00	0.500	12.70	7.500	9.625	5.591	12.677	12.763	15.694	1021	1149	1212	1276	1404	1595	1787	6950	7490	7740	7990	8420	8980	9410	8120	9130	9640	10140	11160	12680	14200
49.00	0.557	14.15	7.386	9.625	5.591	12.677	14.118	15.694	1129	1271	1341	1412	1553	1765	1977	8570	9340	9700	10060	10740	11660	12460	9040	10170	10740	11300	12430	14130	15820	
8-3/4 222.25	53.00	0.599	15.21	7.427	9.433	5.591	12.677	15.339	12.820	1026	1154	1218	1282	1410	1603	1795	9530	10420	10850	11280	12090	13230	14250	9580	10780	11380	11980	13180	14980	16770
9-5/8 244.48	36.00	0.352	8.94	8.765	10.625	5.591	12.677	10.254	17.423	820	923	974	1025	1128	1282	1436	2370	2440	2470	2470	2470	2470	2470	5120	5760	6080	6400	7040	8000	8960
	40.00	0.395	10.03	8.679	10.625	5.591	12.677	11.454	17.423	916	1031	1088	1145	1260	1432	1604	3090	3260	3330	3380	3470	3530	3530	5750	6460	6820	7180	7900	8980	10050
	43.50	0.435	11.05	8.599	10.625	5.591	12.677	12.559	17.423	1005	1130	1193	1256	1381	1570	1758	3810	4010	4130	4230	4420	4620	4730	6330	7120	7510	7910	8700	9890	11070
	47.00	0.472	11.99	8.525	10.625	5.591	12.677	13.572	17.423	1086	1221	1289	1357	1493	1697	1900	4760	4990	5090	5180	5300	5630	5890	6870	7720	8150	8580	9440	10730	12010
	53.50	0.545	13.84	8.379	10.625	5.591	12.677	15.547	17.423	1244	1399	1477	1555	1710	1943	2177	6620	7110	7340	7560	7950	8440	8790	7930	8920	9410	9910	10900	12390	13870
58.40	0.595	15.11	8.279	10.625	5.591	12.677	16.879	17.423	1350	1519	1604	1688	1857	2110	2363	7900	8560	8880	9200	9770	10540	11190	8650	9740	10280	10820	11900	13520	15150	
9-3/4 247.65	54.30	0.545	13.84	8.504	10.625	5.591	12.677	15.761	17.423	1261	1418	1497	1576	1734	1970	2207	6440	6910	7130	7340	7700	8140	8460	7830	8800	9290	9780	10760	12230	13690
9-7/8 250.82	62.80	0.625	15.88	8.469	10.625	5.591	12.677	18.162	17.423	1394	1568	1655	1742	1917	2178	2439	8260	8980	9320	9660	10290	11140	11870	8860	9970	10520	11080	12180	13840	15510
	62.80	0.625	15.88	8.469	10.906	5.591	12.677	18.162	18.539	1453	1635	1725	1816	1998	2270	2543	8260	8980	9320	9660	10290	11140	11870	8860	9970	10520	11080	12180	13840	15510
10-1/4 260.35	75.40	0.734	18.64	8.626	11.125	5.591	12.677	21.943	20.228	1618	1821	1922	2023	2225	2529	2832	10300	11300	11790	12270	13200	14500	15710	10030	11280	11910	12530	13780	15660	17540
10-3/4 273.05	40.50	0.350	8.89	9.894	11.750	5.591	12.677	11.435	19.352	915	1029	1086	1144	1258	1429	1601	1730	1730	1730	1730	1730	1730	1730	4560	5130	5410	5700	6270	7120	7980
	45.50	0.400	10.16	9.794	11.750	5.591	12.677	13.006	19.352	1040	1171	1236	1301	1431	1626	1821	2480	2560	2590	2600	2610	2610	2610	5210	5860	6190	6510	7160	8140	9120
	51.00	0.450	11.43	9.694	11.750	5.591	12.677	14.561	19.352	1165	1310	1383	1456	1602	1820	2039	3220	3400	3490	3550	3660	3740	3750	5860	6590	6960	7330	8060	9160	10260
	55.50	0.495	12.57	9.604	11.750	5.591	12.677	15.947	19.352	1276	1435	1515	1595	1754	1993	2233	4020	4160	4300	4400	4610	4850	4990	6450	7250	7660	8060	8860	10070	11280
	60.70	0.545	13.84	9.504	11.750	5.591	12.677	17.473	19.352	1398	1573	1660	1747	1922	2184	2446	5160	5460	5580	5700	5880	6070	6380	7100	7980	8430	8870	9760	11090	12420
65.70	0.595	15.11	9.404	11.750	5.591	12.677	18.982	19.352	1519	1708	1803	1898	2088	2373	2657	6310	6760	6960	7160	7510	7920	8200	7750	8720	9200	9690	10650	12110	13560	
11-1/8 282.58	82.40	0.734	18.64	9.501	11.880	5.591	12.677	23.961	15.398	1232	1386	1463	1540	1694	1925	2156	8920	9730	10120	10500	11230	12220	13110	9240	10390	10970	11550	12700	14430	16160
11-3/4 298.45	47.00	0.375	9.52	10.844	12.750	5.591	12.677	13.401	21.080	1072	1206	1273	1340	1474	1675	1876	1630	1630	1630	1630	1630	1630	1630	4470	5030	5310	5590	6140	6980	7820
	54.00	0.435	11.05	10.724	12.750	5.591	12.677	15.463	21.080	1237	1392	1469	1546	1701	1933	2165	2450	2530	2560	2560	2570	2570	2570	5180	5830	6150	6480	7130	8100	9070
	60.00	0.489	12.42	10.616	12.750	5.591	12.677	17.300	21.080	1384	1557	1644	1730	1903	2163	2422	3180	3360	3440	3500	3610	3680	3680	5830	6550	6920	7280	8010	9100	10200
	65.00	0.534	13.56	10.526	12.750	5.591	12.677	18.816	21.080	1505	1693	1788	1882	2070	2352	2634	3870	4060	4180	4280	4480	4690	4810	6360	7160	7560	7950	8750	9940	11130
13-3/8 339.72	54.50	0.380	9.65	12.459	14.375	5.591	12.677	15.514	23.909	1241	1396	1474	1551	1707	1939	2172	1140	1140	1140	1140	1140	1140	1140	3980	4470	4720	4970	5470	6210	6960
	61.00	0.430	10.92	12.359	14.375	5.591	12.677	17.487	23.909	1399	1574	1661	1749	1924	2186	2448	1670	1670	1670	1670	1670	1670	1670	4500	5060	5340	5630	6190	7030	7880
	68.00	0.480	12.19	12.259	14.375	5.591	12.677	19.445	23.909	1556	1750	1847	1945	2139	2431	2722	2260	2320	2340	2330	2330	2330	2330	5020	5650	5970	6280	6910	7850	8790
	72.00	0.514	13.06	12.191	14.375	5.591	12.677	20.768	23.909	1661	1869	1973	2077	2284	2596	2908	2670	2780	2830	2850	2880	2880	2880	5380	6050	6390	6730	7400	8410	9420
13-5/8 346.08	77.50	0.545	13.84	12.348	14.625	5.591	12.677	22.395	24.341	1792	2016	2128	2240	2463	2799	3135	2920	3070	3130	3170	3240	3260	3260	5600	6300	6650	7000	7700	8750	9800

NOTE: The data is for reference only, subject to be changed without prior notice. If your required data is out of this table, please consulting with TPCO.