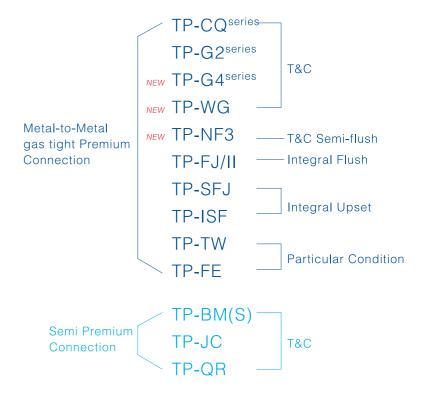




Premium Connection



Tianjin Pipe Corporation

Tianjin Pipe Corporation

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P.C.: 300301

www.tpcointernational.com

Preface

Tianjin Pipe Corporation (TPCO) is one of the global leading seamless steel pipe manufacturers located in China. Its core business is to manufacture the seamless steel pipe that attains to the advanced international standards and to serve the global energy, machinery and other industries. TPCO has 10 overseas companies and offices spread all over the America, Europe, Asia, Africa and Oceania. TPCO is always ready to provide the high quality products and services to customers world-wide.

TPCO R&D center has national level CNAS approved labs, equipped with world leading test facilities and full-scale testing means, and evaluation equipment which can simulate all kinds of critical tubular application conditions, including connection evaluation test ISO 13679/API 5C5 CAL IV and ISO 12835, which to compliance with TPCO can conduct high level quantity control to production process and final products, make sure they satisfy API, ASME, ASTM and other standards or special requirements from customers.

Until now TP series premium connections already developed to dozen kinds of connection, size range covered from 1.9in to 26in, structure type including typical gas tight T&C, near flush T&C, upset semi flush integral, full flush integral and semi premium connections. Applicable material grade including all API grades, H2S,CO2 corrosion grades, high collapse grades and other material suitable for special and serve oilfield environments.

As of now, a dozen of premium connections in TP series already owned a whole process system including product design. FEA analysis. evaluation test. threading process control. inspection method and oilfield services, which can provide rapid respond to market demands.

For further information please visit our website at www.tpcointernational.com.

Connection Test Facilities

- In-house full scale pipe properties evolution system. Inside/outside pressure, gas-tight test, full stretch, burst testing etc.
- Large-scale comprehensive joint test equipment for four-quadrant composite loading testing according to ISO 13679,API 5C5 and ISO 12835.













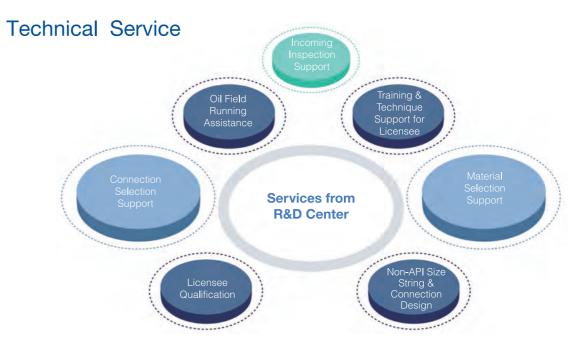




Connection Category

No.	Туре	Type of Connection	Connection	Remarks						
1			TP-CQ ^{Series}	The classics generation product, excellent gas seal-ability under combined load suitable for most well condition.						
2			TP-G2 ^{Series}	Generation two connection especially suitable for deep well, high deviated well and long horizontal wells.						
3		T&C	TP-G4 ^{Series}	The latest generation product, high performance premium connection suitable for high grade, high alloy material and most critical well condition.						
4	Metal to Metal Gas-tight		TP-WG	Super anti high torque wedge thread connection suitable for CWD and other high torque operation.						
5	Premium		TP-TW	Best heat stability suitable for thermal wells application such as SAGD.						
6	Connection		TP-FE	High fatigue resistance suitable for offshore riser application						
7			TP-NF3	Slim coupling premium connection for casing suitable for limited clearance well.						
8		Integral flush	TP-FJ/II	Integral fully flush premium connection provides maximum clearance suitable for complicate wellbore design and limited clearance.						
9		Integral upset	TP-SFJ	Integral upset semi-flush premium connection with double metal to metal seal suitable for complicate wellbore design and limited clearance.						
10		<u> </u>	TP-ISF	Integral upset semi-flush premium connection with two step threads and better performance, suitable for complicate wellbore design and limited clearance						
11	Semi Premium		TP-BM(S)	Modified buttress connection and Interchangeable with API BC, high torque /compression capacity suitable for shale oil and horizontal part of shale gas.						
12	Connection	T&C	TP-JC	New zigzag thread concept design suitable for replace API EU product						
13			TP-QR	Quick run semi-premium connection suitable for large diameter surface casing						

Note, Dope-free technology is optional for gas tight premium connection connection, without thread compound when make-up.



Steel Grade Availability

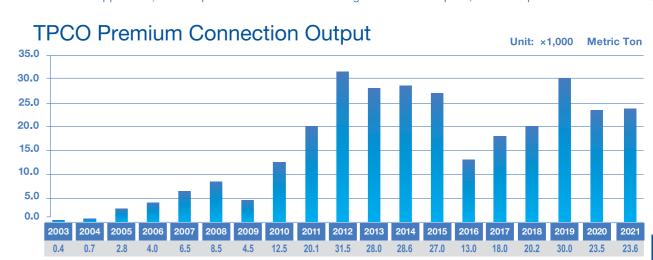
Grade	Connection	TP- CQ ^{Series}	TP- G2 ^{Series}	TP- G4 ^{Series}	TP-WG	TP- NF3	TP-FJ/	TP-SFJ	TP-ISF	TP-TW	TP-FE	TP- BM(S)	TP-JC	TP-Q
	H40	А	А	А	А	А	А	А	Α	Α	А	А	Α	Α
	J55	Α	Α	А	Α	А	Α	А	Α	А	А	A	Α	Α
	K55	A	A	A	A	A	A	A	A	A	A	A	A	A
	N80-1 N80Q R95	A A	A	A	A	A	A	A	A	A	A A	A A	A	A
-	M65	A	A	A	A	A	A	A	A	A	A	A	A	A
API Grade	L80-1 L80-9Cr													
	L80-13Cr	А	А	А	А	А	А	А	А	А	А	А	А	А
	C90	А	А	А	А	А	А	А	А	А	А	А	А	Α
	T95	А	А	А	А	А	Α	А	А	А	А	А	А	Α
	C110	A	Α	A	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
	P110	A	А	A	A	Α	Α	Α	Α	Α	А	Α	А	Α
	Q125	A A	A	A	A	A	A	A	A	A	A	A	A	A
	TP80T TP80TT	A	A	A	A	A	A	A	A	A	A	A A	A	A
	TP95T	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP95TT	A	A	A	A	A	A	A	A	A	A	A	A	A
High collapse	TP110T	A	A	A	A	A	A	A	A	A	A	A	A	A
Tilgit collapse	TP110TT	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP125TT	А	А	А	А	А	А	А	А	А	А	А	А	Α
	TP130TT	А	А	А	Α	А	А	А	А	А	А	А	А	А
	TP140TT	А	А	А	А	А	А	А	А	А	Α	Α	А	Α
	TP110V	А	А	А	А	А	А	А	А	А	А	А	А	Α
	TP125V	А	Α	А	Α	А	Α	А	Α	А	Α	Α	Α	Α
Deep well service	TP140V	А	А	А	А	А	А	А	А	А	А	Α	А	Α
200p WOII 361 VICE	TP150V	А	А	А	А	А	Α	А	Α	Α	А	А	А	Α
	TP155V	Α	Α	A	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
	TP165V	А	А	А	Α	Α	Α	А	Α	Α	А	Α	Α	Α
	TP90H	A	A	A	A	Α	Α	Α	A	Α	Α	A	A	Α
Stem injection	TP100H	A	A	A	A	A	A	A	A	A	A	A	A	A
·	TP110H	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP125H TP110SG	A A	A	A	A	A	A	A	A	A	A	A A	A	A
Shale gas	TP125SG	A	A	A	A	A	A	A	A	A	A	A	A	A
Silale yas	TP140SG	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP55LL	A	A	A	A	A	A	A	A	A	A	A	A	A
_	TP80LL	A	A	A	A	A	A	A	A	A	A	A	A	A
low temperature	TP110LL	А	А	А	А	А	А	А	А	А	А	А	А	Α
· ·	TP125LL	А	А	А	Α	А	Α	А	Α	А	Α	Α	А	Α
	TP150LL	А	А	А	А	А	А	А	А	Α	А	А	А	А
	TP80S	А	А	А	А	А	Α	А	Α	А	А	А	Α	Α
	TP80SS	А	А	А	А	А	А	А	А	А	А	А	Α	А
	TP90S	А	А	А	А	А	А	А	А	А	А	А	А	Α
	TP90SS	А	А	А	А	А	А	А	Α	А	А	А	Α	Α
Sour service	TP95S	A	Α	A	Α	Α	Α	Α	Α	Α	Α	Α	Α	A
	TP95SS	A	A	A	Α	Α	Α	Α	Α	Α	A	A	Α	A
	TP110S	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP110SS	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP125S TP80TS	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP80TS	A A	A	A	A	A	A	A	A	A	A	A A	A	A
	TP90TS	A	A	A	A	A	A	A	A	A	A	A	A	A
High collapse &	TP90TSS	A	A	A	A	A	A	A	A	A	A	A	A	A
Sour service	TP95TS	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP95TSS	A	Α	A	A	A	A	A	A	A	A	A	A	A
	TP110TS	А	А	А	А	А	А	А	А	А	А	А	А	А
	TP110TSS	А	А	А	А	А	Α	А	А	Α	Α	Α	Α	Α
	L80-1Cr	А	А	А	А	А	А	А	А	А	А	А	А	А
	L80-3Cr	А	А	А	А	Α	Α	А	Α	Α	Α	Α	Α	Α
	TP110-3Cr	А	А	А	А	А	А	А	А	А	А	А	А	Α
	TP80-13Cr	А	Α	А	Α	Α	Α	Α	Α	Α	Α	Α	Α	А
nti-CO2 corrosion	TP95-13Cr	A	Α	A	А	А	Α	Α	Α	Α	Α	A	Α	Α
	TP110-1Cr	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP110-13Cr	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP110-HP13Cr	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP110-SUP13Cr	A	A	A	A	A	A	A	A	A	A	A	A	A
	TP125-SUP15Cr	A	A	A	A	A	А	А	А	A	A	A	A	A
	TP110-22Cr	A	A	A	A	A				A	A	A	A	A
	TP110-25Cr	A	A	A	A	A				A	A	A	A	A
	TP110-SUP25Cr	A A	Α	A	Α	Α				Α	A A	Α	A	A
CRA	TP125-22Cr TP125-25Cr	A	A	A	A	A				A	A	A	A	A
ChA	TP125-25Cr TP125-SUP25Cr	A	A	A	A	A				A	A	A	A	A
	TP-TDJ028	A	A	A	A	A				A	A	A	A	A
	TP-TDJ028	A	A	A	A	A				A	A	A	A	A
	TP-TDJG3	A	A	A	A	A				A	A	A	A	A
Ti alloy	TP-Ti-110	A	A	A	A	A				A	A	A	A	A
uy	110	- ' '			- 73	- ^								

NOTE: A=Applicable, extra particular steel grades can be provided according to customer request, for details please check with TPCO R&D.

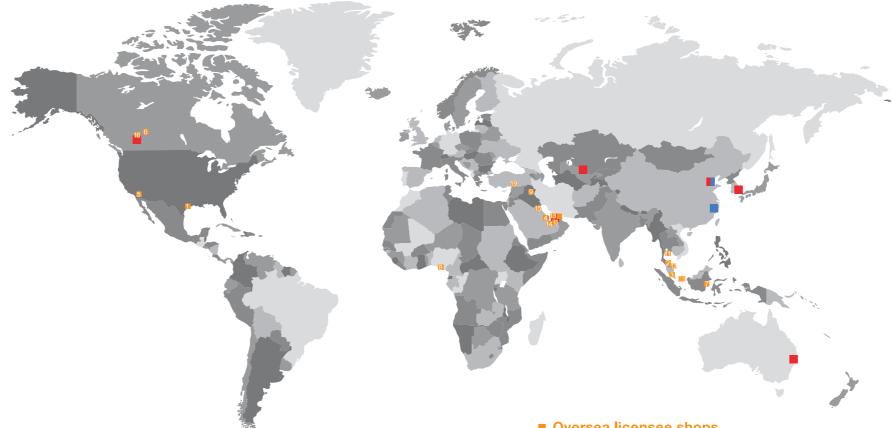
Size Availability

Connection	TP-CQ ^{Series}	TP-G2 ^{Series}	TP-G4 ^{Series}	TP-WG	TP-	TP-FJ/	TP-SFJ	TP-ISF	TP-TW	TP-FF	TP-	TP-JC	TP-QR
Inch	52	5.2			NF3	II	5. 5				BM(S)	55	
2-3/8	А	А		Α			Α					Α	
2-7/8	А	А		Α			Α					Α	
3-1/2	А	А		Α			Α					Α	
4	А	А		А			Α					А	
4-1/2	А	А		А			Α		Α		Α	Α	
5	А	А	А	Α	Α	Α	Α		А		Α	Α	
5-1/2	А	А	А	Α	Α	Α	Α	Α	Α		Α	Α	
5-5/8						Α							
5-3/4						Α							
6-1/8						Α							
6-5/8	А	А	А	Α	Α	Α	Α	Α	Α	Α	Α		
7	А	А	А	А	Α	Α	Α	Α	А	Α	А		
7-1/4					Α								
7-1/2						Α							
7-5/8	А	А	А	Α	Α	Α	Α	Α	Α	Α	Α		
7-3/4	А	А	А		Α	Α	Α	Α	Α	Α	Α		
7-7/8	А		А										
8						А							
8-1/8	А					Α							
8-1/2						Α							
8-5/8	А	А	А	Α	Α	А	Α	А	Α	А	А		
8-3/4	А				Α								
9-5/8	А	А	А	Α	Α	Α	Α	А	Α	Α	А		
9-3/4	А												
9-7/8	А	А	А	Α									
10-1/4	А												
10-3/4	А	А	А	Α	Α	Α		Α	Α	Α	Α		
11					Α	Α							
11-1/8	А				Α	Α							
11-1/4						Α							
11-3/4	А	А	А	Α	Α	Α		Α	Α	Α	Α		
13-3/8	А	А	А	А				Α	Α	Α	Α		А
13-5/8	А		А	Α				Α		Α			Α
14								А		Α			
14-3/8	А		А		Α					Α			
14-3/4					А								
16		А								А	А		А
18-5/8		А									А		А
18-3/4		А											А
20		А									А		А
24													А

NOTE: A=Applicable, size expansion is avaliable according to customer request, for details please check with TPCO R&D.



Service Network



■ Sales & service centers

Tianjin Pipe International Economic & **Trading Corporation**

Address: No.396, Jintang Road, Dongli District, Tianjin, P.R. China

P.C.: 300301

Tel.: 0086-22-6628-0988 Fax: 0086-22-6628-2951

Tianjin Pipe Corp. (Middle East) Ltd.

Address: 17537 Jebel Ali Free Zone, Dubai, U.A.E.

Tel.: 00971-4-8833-799 Fax: 00971-4-8833-899 Email: tpcome@eim.ae

TPCO Canada Branch Office

Adress: Sun Life Plaza West Tower, Suite 1624 144-4th Avenue, SW, Calgary, AB, T2P 3N4, Canada

Tel.: +1-403-370-9395 Email: tpcocanada@tpcointl.cn

■ Production sites

Tianjin Pipe Corporation

Address: No.396, Jintang Road, Dongli District, Tianjin, P.R. China

Tel.: 0086-22-6628-0988 Fax: 0086-22-6628-2951

TPCO Australia Pty Ltd.

Address: 2126 Central Plaza One, 345 Queen Street,

Brisbane, QLD Tel.: (07) 3012 6155 Fax: (07) 3012 6001

Email: tpcoaustralia@tpcointl.cn

Tianjin Pipe Korea Liaison Office

Address: 1306 West Wing Hanshin Cylux 716 Suser-Dong Kangnan-Gu Seoul Korea

Tel.: 0082-2-4512882 Fax: 0082-2-21499912 Email: tpcokorea@tpcointl.cn

TPCO Central Asia Office

Address: Block-A, 11th floor, Amir Temur Av. 107-B, International Business Centre, Tashkent,

Uzbekistan Tel: +998 973330979 Email: tpcoca@tpcointl.cn

Jiangsu Tianhuai Pipe Corporation

Address: No.69, Hanhou Road, Huaian City, Jiangsu

Province, P.R. China Tel.: 0086-517-83850681 Fax: 0086-517-83850678

■ Oversea licensee shops

Forum US, Inc. d/b/a Davis Lynch **USA Houston** NO.2008-001

OMS Oilfield Services (Thailand) Ltd.(Songkhla) NO.2008-002 Thailand Songkhla

Orilmaco Pte Ltd Singapore NO.2008-005

4 DOHA PETROLEUM CONSTRUCTION CO.LTD Qatar Doha NO.2010-008

Timbalier Premium Sercices, LLC NO.2012-006 USA LA

Variperm Energy Services NO.2012-010 Canada

PT. Besmindo Borneo Semesta Indonesia balikpapan NO.2013-001

Laila Mechanical Engineering Services & Contracting Co. Ltd. NO.2014-001 Nigeria, Abuja

Black Lake Energy Services Iraq.Kurdistan .Erbil NO.2014-002 Oryx Engineering Solution LLC. Qatar

NO.2014-004

NO.2014-005

MS Oilfield Services (Thailand) Ltd. (Sattahip) Thailand Sattahip

Oilfield Services & Supplies (Thailand) CO. LTD

Thailand Songkhla NO.2015-003

IS WESCO LLC. Abu Dahbi, UAE

NO.2015-004

NO.2015-008

Rainbow Mechanical Solutions LLC. Abu Dahbi, UAE

Apex Energy Company For General Trading and Contracting W.L.L NO.2015-009 Kuwait

Force Inspection services LTD. (Nisku)

Nisku Canada NO.2018-004

PT PIPA MAS PUITH batam,Indonesia

NO.2018-006

PT.APPIPA INDONESIA Batam.Indonesia

NO.2019-001

Kaltek Machinery&Trading LTD.CO.

Hatay, Turkey NO.2021-001