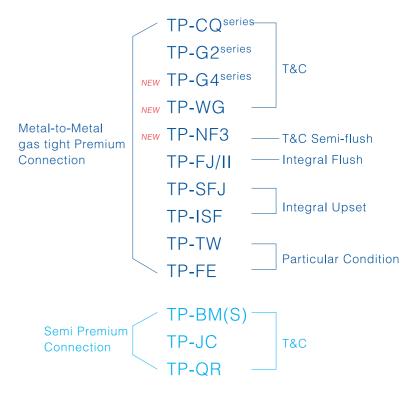




remium connections TP-WG



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TP-WG 2-3/8in~14-3/8in

T&C type ultra-high torque Gas tight premium connection

- Wedge form threads provide extreme high torque operation ability compares to all other shoulder type premium connection.
- Tapered Metal to Metal seal provide stable gas tight ability under complex loads.
- Very easy stabbing and hand tight with thread flanks space design, less make up turns required compares to traditional type premium connection.
- Torque vs turns record system is not mandatory required for running, make up position and torque value will be enough to judge.
- API 5C5:2017 CAL IV qualified with 100% compression.



Wedge type thread, Gradual thread width changed



Metal to Metal tapered seal

Application:

- Casing while drilling
- High torque operation wells
- Horizontal wells
- Intermediate and production casing and liners
- Tubing

Anti Galling test:

7in 23PPF L80 TP-WG

After 3 Make up and 3 break out no galling was found.



Over torque test:

Note: Due to Clamp slide issue, the real TP-WG yield torque value is even higher than the yield torques shown on below graphs

7in 23PPF L80 TP-WG

Yield torque is over 33000ft-lbs, while the other non-wedge type premium connection for this size can only reach about 20000ft-lbs.



5.5in 26PPF Q125 TP-WG

Yield torque is over 35000ft-lbs, while the other non-wedge type premium connection for this size can only reach about 25000ft-lbs.



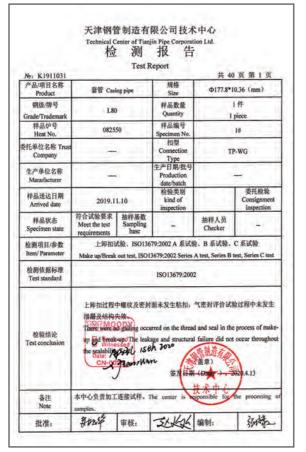
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Combine load Gas-tight test:

API 5C5:2017 CAI IV
7IN 23PPF L80 TP-WG has passed API
5C5 2017 CAI IV 100% Compression
Series A+ B+ C test, no leak or structure damage was found.

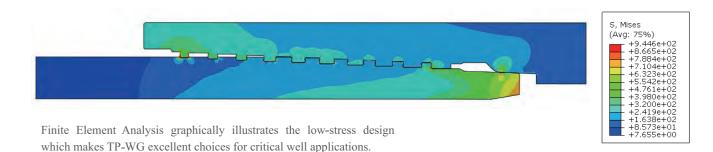
天津天管检测技术有限公司 Tianjin TPCO Testing Technology Co., Ltd. 检验报告 Test Report Na: J2204005 产品/项目名称 Product 钢级/牌号 共13页第1页 Ф177.8*8.05 套管 L80-1 TP-WG rade/Tradem Connetion 样品数量 1件 064397 Heat No. 生产日期/批号 1# roduction date/bate 生产单位名称 Specimen No. 委托单位名称 天津钢管制造有限公司 天津钢管制造有限公司 检验类别 委托检验 样品送达日期 送样人员 2022 04 05 kind of Consignment inspection Arrived date 符合试验要求 抽样基数 Meet the test Sampling 抽样人员 Checker 样品状态 检测项目/参数 试样的B系、C系和A系载荷包络线试验 检测依据标准 API RP 5C5: 2017 7.0% 23.3%在L80-1 TP-WG 的 1 号试样转接机通过了 API 5C3: 2017 CAL IV 标准 的试验程序。这能収得包括线(TLE)最大达到了曾体层服的 95%。接头拉伸效率等于智 体的 100%。接头压缩效率等于管体的 100%。接头内压效率等于管体 100%。接头外 压效率等于管体 100%, 羽腿度 19º/100份。 Specimen NO.1 of 7.0in 23.3lb/ft L30-1 TP-WG premium connection successfully operuntin NO.1 of 1/0m 23.300 LBO 17-WG premium connection successfully passed qualification lesting in accordance with the test procedure for casing connection. Sec. 250.300 CPULT_NESSEMENT Test load cavelops up to 95% are they aged attempth with connection testion. History at 100%, connection testion of the process of the connection of the process 检验结论 委托单位负责加工连接试样。 Trust Company is responsible for the pr Approved by: FVALE

ISO 13679:2002 CAI IV 7in 29PPF L80 TP-WG has passed ISO 13679:2002 CAI IV 100% Compression Series A+ B+ C test, no leak or structure damage was found.

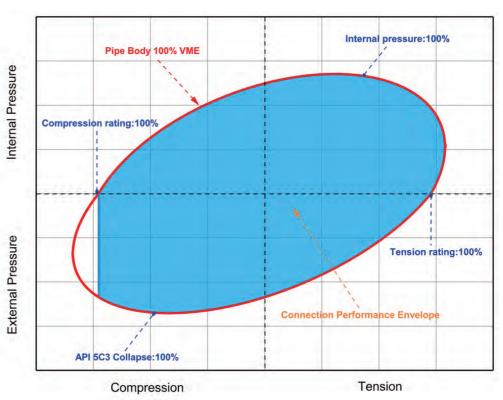


Finite Element Analysis on TP-WG:

5.5in 26.8PPF Q125 TP-WG



VME application



Supply record of TP-WG:

User	Grade	OD	PPF	Time	Quantity
COSL Canada	L80-D10	7in	23	2022.4	560 ton