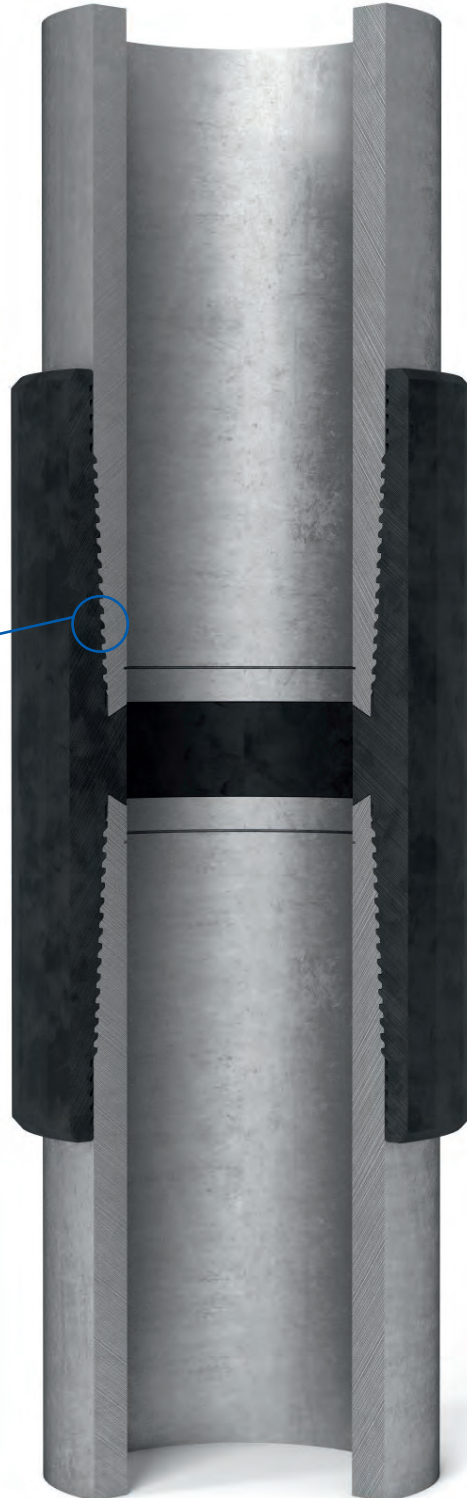


HIGH STRENGTH HIGHLY SEALED CASING STRING TMC-SRV1

- ✓ Thread pitch—0.2 in
- ✓ Seal – top –
“metal-to-metal”.
- ✓ 5 threads per inch.



Application

Casing strings TMC-SRV1 produced per Technical Requirements TU by TMC group MC LLC are used to case oil and gas wells of complicated profile.

Advantages

- Hermetic geometric mating of the threaded profile and the two thrust elements.
- High make-up torque (up to 20.283 lbf-ft).
- Maintaining tightness under the action of combined tensile loads (up to 379.9 kipf), compression (at least 80%) and internal hydraulic pressure (up to 5.076 psi) due to additional thrust element, rotation with simultaneous cementing.

Design features of the threaded joint:

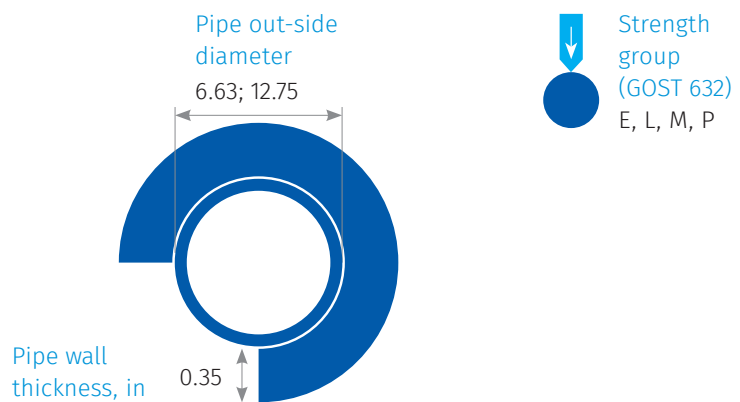
1. Pipe thread is cut as per the manufacturing analogues according to GOST 632-80 and GOST R 31446-2017 (analogue of API Spec 5CT) and furthermore a sealing thrust element is made, which provides a joint geometric mating of threaded profile and two thrust elements (ledge on the pipe and boring in the coupling) “metal-metal”.
2. When the threaded profile and the sealing thrust elements are mated together, there is no clearance between the seal outer surface on the pipe pin and in the bore in the coupling. The geometric sealing takes place by geometric dimensions of thread profile mating angles, pin end and in the boring—by the coupling face as metal-to-metal, as well as by the diameters of the sealing elements. The presence of two turns of incomplete thread profile on the sealing diameter surface of the pipe pin sealing element is a dampener during operation of the joint and a distinctive geometry feature—the brand of MC TMC Group Managing Company LLC. After three times of joint makeup-breakout the incomplete profile turns disappear from the surface of the seal.
3. The joint makes it possible to significantly increase make-up torques and the bearing capacity of the threaded joint, as well as increases reliability under the action of combined loads in the form of tension, compression, and internal hydraulic pressure.
4. 2 types of execution are available: coupling joints and streamline joints.

Type of thread

TMC-SRV1

Standard/Specification

TU TMC group MC LLC



Strength group

Type



Yield strength σ_y , ksi



Tensile strength, ksi (not less)



Pipe wall thickness, in

Percentage elongation, δ_5 , %, not less

E N80	- Q	54.97 - 123.6 Min Max	99.93	0.35	13
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