

TAGRAS Oilfield Services Holding



COUPLINGS TO CASING PIPES



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Purpose

The couplings are designed to connect casing pipes used in the construction of oil and gas wells, and are manufactured with OTTM and OTTG type threads in accordance with GOST 632-80, and with BATTRESS threads under TS 14-ZR-29-2000.

Premium casing pipe couplings with patented TMC-OTV, TMC-SRV1, TMC-SRV2 threads are used at compound oil and gas wells, that require enhanced performance, as well as for production of ultra-viscous oil by steam assisted gravity drainage.

Field of application

- The high-strength, highly hermetic TMC-OTV threaded connection is used at compound oil and gas wells, as well as at wells in which the heat-transfer medium moves at a temperature of up to 482 °F. The design is unique due to the sealing of the threaded connection that is achieved by the interference fit contact at the C point of the toroidal seal belt of the nipple with a female cone in the coupling.
- The high-strength, highly hermetic TMC-SRV1 threaded connection provides high torque at screwing (up to 20.283 lbf-ft), tightness preservation under combined extension (up to 379.9 kipf) and compression loads (at least 80%), as well as internal hydraulic pressure (up to 5.076 ksi) by coupling of threaded profile and two «metal-to-metal» baffle elements.
- The high-strength, highly hermetic TMC-SRV2 threaded connection has high compression, tensile and bending strength and meets CAL IV requirements level, which confirms its suitability for the most severe oil production conditions. Another feature of the TMC2-SRV threaded connection is its ability to be assembled on the inclined support of the drilling rig.

Advantages

- Production of couplings with premium threads of in-house design.
- Production of couplings according to specific requirements of the customer.

Technical specifications

GOST 632-80

Nominal pipe diameter, in	Outside diameter, in	Length, in	Weight, lb	Thread pitch, in	Strength groups
4.02	4.33	7.48	7.28	0.2	as per GOST 632-80
4.5	5	6.69	8.82	0.2	
5	5.5	6.85	10.58	0.2	
5.75	6.54	7.17	17.42	0.2	
6.61	7.39	7.48	20.94	0.2	
7.01	7.66	7.79	18.96	0.2	
9.65	10.63	8.58	43.87	0.2	

Premium Connections TMC according to TS 1327-009-20970456-2015, TS 13 0814-100-78691656-2015

Type of threaded joint	Pipe schedule, D-t, in	Strength group as per GOST 632-80 / API 5CT	Thread pitch, in
TMC Premium joints			
TMC-OTV-6.35-245	9.65-0.35; 9.65-0.39	D, E, L, M	0.25
TMC-SRV1	6.61-0.35	D (A) / J55	0.2
TMC-SRV2	9.65-0.35	E / N80	0.25