

Load Anchor

Metal-to-metal anchor for the COLOSSUS M2M system



Rated up to 13,400 psi [92 MPa]



Rated to 160 degC [320 degF]



Rated to 1,300,000 lbf [5.796 MN]

APPLICATIONS

- Anchors casing, tiebacks, and hangers to enable higher bidirectional load capability
- Lock uncemented tieback in place without space out issues

BENEFITS

- Reduces thermal expansion loads while anchoring extended-reach drilling completion strings
- Enables use of conventional liner hanger equipment that would otherwise be unable to support heavy axial loads

FEATURES

- Cost-effective, nonsealing, robust metal-to-metal load anchor system
- Bidirectional, high axial load capabilities
- NACE compliance
- Life-of-well effectiveness
- Fully anchored uncemented tieback

As a part of the COLOSSUS M2M* metal-to-metal expandable liner hanger system portfolio, the load anchor system provides full metal-to-metal anchoring of tieback casing, effectively removing the transferred compression load to the liner tieback and liner hanger.

The unique Metalmorphology* metal-to-metal sealing and anchoring technology shapes metal downhole to create metal-to-metal solutions that conform perfectly to the shape of the upper casing string.

The result is a high-axial-load-bearing, metal-to-metal interface that meets well integrity needs and retains its effectiveness for the life of the well.

Applications

The load anchor is set against the previous casing above or below the hanger to remove excessive compression and tensile loading from the hanger and tieback seal. Additionally, the load anchor can be used to prevent movement of the tieback casing to help maintain the integrity of traditional seal stacks and PBR systems.

In some casing designs, high thermally-generated axial loads can occur in tieback casings. This may cause problems for the liner hanger system, the casing, or even the casing threads, particularly when the casing design requires semiflush connection profiles, which have reduced axial load capabilities. The load anchor system is run as part of the tieback casing to remove any axial load transfer onto the liner hanger system.

Load Anchor Specifications

Size, in [cm]	OD, in [cm]	Standard ID, in [cm]	Burst Pressure, psi [MPa]	Collapse Pressure, psi [MPa]	Axial Rating, lbf [MN]
7.625 × 11.875 [19.36 × 30.163]	7.750 [19.68]	6.375 [16.19]	11,000 [75.8]	13,400 [92.4]	1,300,000 [5.796]
10.750 × 13.375 [27.30 × 33.97]	12.125 [30.79]	9.600 [24.38]	9,760 [67.3]	5,880 [40.54]	1,300,000 [5.796]



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