

ENHANCED RAM-STYLE RISER TENSIONER CYLINDER

ABSTRACT

5 In accordance with embodiments of the present disclosure, a ram-style riser tensioner cylinder assembly includes an outer cylinder barrel and an inner rod barrel disposed within and extending in a first direction from the outer cylinder barrel. The cylinder assembly also includes a high pressure seal disposed along a sliding interface between an end of the inner rod barrel and an inner wall of the outer cylinder barrel. In addition, the cylinder assembly includes a cap coupled to an end of the inner rod barrel extending from the outer cylinder barrel, and a fluid
10 reservoir disposed in the cap. The fluid reservoir may be used to store and communicate fluid from the fluid reservoir to the high pressure seal for lubricating the seal.

FIG. 1