

## Risers / Lubricators



The Phuel Riser (or Lubricator) is a pressure-containing cylinder used when performing wireline operations. It allows the wireline tool string to be raised above the wellhead valve, permitting entry and exit from the well bore. For electric line operations the risers normally have the same diameter; for slickline operations, three sizes are normally used with the smallest at the top.

The Riser body can be constructed in a single piece or from three pieces with a metal-to-metal ACME sealing connection backed by an O-ring. The end connections are either quick union or flanged to suit equipment and pressure requirements.

Phuel Risers are available in any length. The shorter lengths (1m approx) are of one-piece construction and the longer lengths from the three-piece body as standard. In all cases they come with the industry-leading features that distinguish Phuel from other suppliers.

### Safe Lok

This unique feature allows the weight of the collar to be safely supported when the connection is broken. An upset shoulder is provided that allows the collar — when separated from the box end — to be lifted up a short distance and orientated to sit on the support shoulder. The connection can then be safely separated and made up again with no risk of the collar suddenly dropping onto the threads or on to the operator's fingers.



### Saver Sub

This simple feature is included on almost all Phuel equipment. It places the main pressure fitting (usually NPT) on a removable sub that can be easily replaced if the fitting becomes worn or damaged, so avoiding costly repairs.

*Phuel Risers are supplied to pressure ratings and use end connections to suit your application. We also can offer an insitu version (see pictures) which allow the connections to be tested once made up without having to fill and pressurise the bore. Please contact us for more details.*

**A FLEXIBLE  
APPROACH,  
IMPROVED SAFETY  
AND EFFICIENCY  
THROUGH DESIGN**

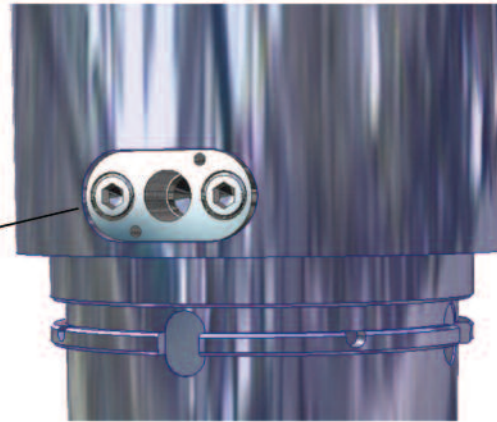
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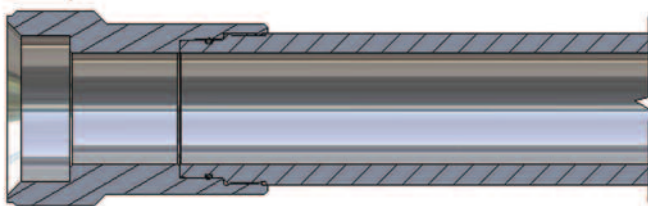
Saver Sub allows easy replacement of worn or damaged pressure connections. Blank Subs are available with no pressure port



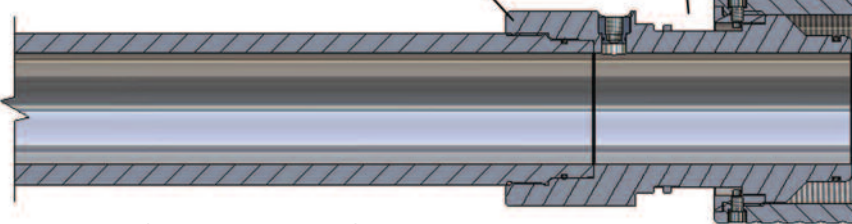
Optional one-piece Manifold system reduces the number of leak paths and offers a standard operating procedure for bleeding and testing. [Replaces the standard Saver Sub]



Industry standard end connections to suit your requirements

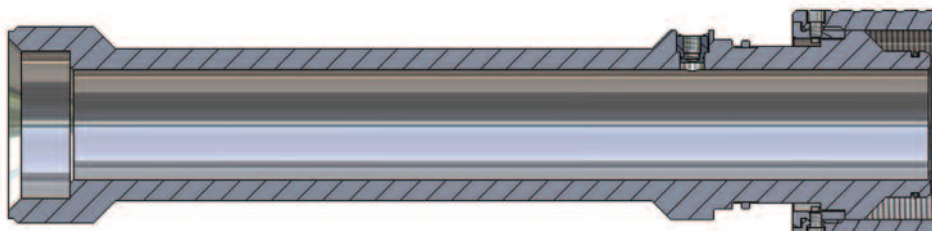


Body connections have low torque metal seal with o-ring back up for easy maintenance



Phuel Safe Lok collar system is standard and allows the collar to be supported while stabbing in

Split Body Option - For longer lengths (greater than 1m)



One-piece Body - For shorter lengths (1m approx.)