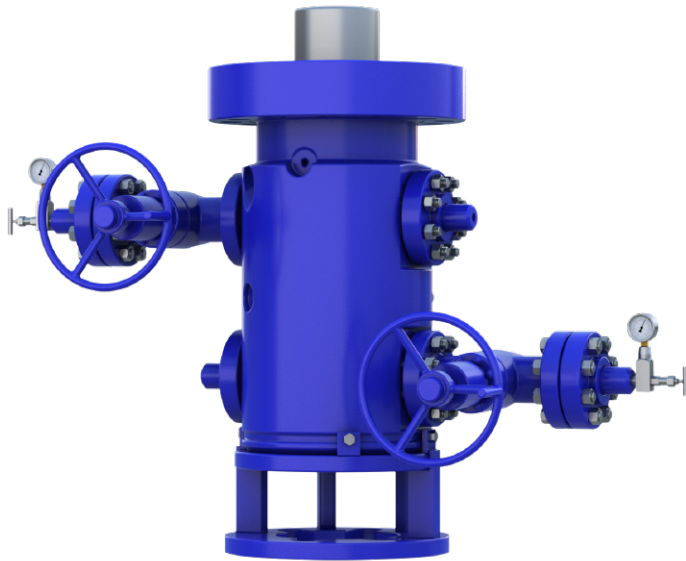


Seaboard™ Unitized™ Lock-Ring (ULR) Wellhead

Slimmer design and improved sealing technology for a more efficient system

SPM™ Oil & Gas

A Caterpillar Company



Engineered specifically for shale-play applications, the Seaboard™ Unitized™ Lock-ring (ULR) wellhead further enhances safety and efficiency on the pad site. Featuring a straight-bore design, lock-ring technology in a multi-bowl Unitized™ wellhead, this compact wellhead assembly can accommodate 95% of casing configurations and can save up to 35 hours of rig time compared to traditional systems.

Time and cost-savings are made possible thanks to the installation of the wellhead and all subsequent strings through the diverter riser or BOP. Time spent on workovers and waiting for cement are minimized, along with exposure to risk.

Sizes/Pressure/Specifications

- 11-inch and 13 5/8-inch size and 5,000 or 10,000-psi working pressure rating and temperature P-U (-20°F to +250°F)
- Frac pressure: 15,000 psi
- Diverter size compatibility:
 - 20 inch for 5,000 psi
 - 22 inch for 10,000 psi
- Casing program for 13 5/8" system:
 - Conductor: 20"
 - Surface Casing: 13 3/8", 11 3/4"
 - Intermediate Casing: 7 5/8" to 10 3/4"
 - Production Casing: 4 1/2" to 7"
- Casing program for 11" system:
 - Conductor: 16" +
 - Surface Casing: 9 5/8", 10 3/4"
 - Intermediate Casing: 7", 7 5/8"
 - Production Casing: 4 1/2", 5 1/2"

Applications

- Pad and shale drilling

Features and Benefits

Safety

- Unitized™ Casing Head with internal lock down hangers with positive engagement, eliminating leak path risk due lock screws penetration

Efficiency

- Make and break connections faster with Seaboard™ Quick Connector from 2 hours to 15 minutes
- Improved packoff configuration for reduced overall system height

Compatibility

- Four-string ULR option available for longer laterals and more intense frac applications
- Retrievable packoffs seal each contained annulus and meet NACE requirements
- Ability to rotate intermediate and production strings at 20,000 ft-lbf
- Casing Rotating tool top drive makeup capabilities on casing head
- Offline cementing compatibility during pad drilling operations
- Common internal components and running tools
- Detachable base plate and landing ring options for casing head

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