

INTERNAL LATCH WELLHEAD SYSTEM

Internal Latch Wellhead, BOP Quick-Connect, & Rotating Casing Hanger



Internal Latch Wellhead System with BOP Quick-Connect

Internal Latch Wellhead System with Rotating Flange

INTERNAL LATCH WELLHEAD SYSTEM KEY FEATURES

After years of extensive research and development, UWS introduces our Internal Latch Wellhead System. This system includes three key features and was designed for fast and efficient installation to save valuable rig time, keeping personnel safety a top priority, and maximizing the benefits of pad drilling.

Internal Latch Wellhead System

This wellhead system features an internal latch, meaning there are no lock-down pins penetrating the wellbore. This system is a one-piece wellhead that connects to the surface casing and accepts hangers for both intermediate and production casing strings. Hangers and pack-offs are secured internally via a latch mechanism that is activated from the rig floor. This greatly increases safety while lowering the cost. Slip hangers are available should either casing string become stuck.

BOP Quick-Connect (Patent Pending)

This system attaches to the BOP stack and remains there during each new consecutive well. It uses a steel API ring gasket and the typical make-up time to the wellhead is under 15 minutes. This system is patent-pending as it has the ability to replace the ring groove should it become damaged, without removing it from the BOP.

Rotating Casing Hanger & Running Tool

The production casing can be rotated to the right while running the last joint of casing. The hanger is a fluted mandrel style that allows returns to be taken during cementing.

Contact your UWS sales representative for a quote or demonstration.

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INTERNAL LATCH WELLHEAD SYSTEM

Features and Benefits



BELOW ARE THE KEY FEATURES AND BENEFITS OF THE UWS INTERNAL LATCH WELLHEAD SYSTEM.

FEATURES

BENEFITS

INTERNAL LATCH WELLHEAD SYSTEM (ILS)

Xylan-coated components:

- Wellhead body - Internal diameter
- Flange threads (OD and ID threads)
- Wear bushings
- Casing hanger running threads and neck
- Running tools, inside and outside
- Upper and lower pack-offs
- Hanger tool threads, neck, and running tool
- BOP Quick-Connect

Prevents corrosion and rust
Reduces friction
Eases installation
Improves performance
Extends the life of components
Facilitates easy cleanup

Inward-biased latch mechanism

Prevents questionable latching that can occur with outward-biased latch rings. The activation ring pushes the latch ring into position. This is counted by the rotational turns during installation to eliminate doubt.

All test fittings on the Internal Latch Wellhead System are recessed.

Protects the fitting from being exposed, reducing the risk of damage.

Wear bushings incorporate a spring-loaded latch design, three S-Seals on the OD, and are Xylan-coated.

Designed not to get stuck and prevent trash from getting behind the wear bushing. Allows up to 350,000 pounds of pulling force when retrieving.

Upper and lower pack-offs are designed with high-pressure S-Seals on the OD and FS-seals in the ID.

Both can be fully tested once installed and before latching. S-Seals deliver reliable high-pressure static sealing. FS-Seals improve equipment reliability, extending seal and equipment service life.

Wellheads and casing hangers are stocked with a blank bottom prep.

Allows quick conversion to slip-on weld or a specific threaded bottom prep.

Option available for use with offline cementing.

Improves operational efficiency by reducing drilling times, providing cost savings and reducing HSE risk.

Base plates are a bolt-on design and incorporate generous top-out slots and optional centralizers.

Easily installed or removed, and with a higher weight capacity than weld-on base plates.

The ILS body can be run through the rotary if desired with our running tool.

Saves rig time.

An upper and lower wash tool designed to clean the entire ID and OD while targeting the latch groove.

Each tool is specifically designed for the latch being installed to ensure the latch groove is clean.

Temporary capping flanges are available to secure the wellbore when not drilling.

Quickly and safely secures with the same latch system as the BOP Quick-Connect.

INTERNAL LATCH WELLHEAD SYSTEM

Features and Benefits



FEATURES

BENEFITS

BOP QUICK-CONNECT

(Patent Pending)

BOP Quick-Connect has a replaceable ring groove insert (patent pending).

Enables the ring groove to be replaced without removing the Quick-Connect from the BOP.

BOP Quick-Connect sealing is metal-to-metal via a conventional steel API ring gasket.

Our system can be made up to the wellhead body in under 15 minutes with a pneumatic torque wrench.

A stand is available to secure the BOPs under the rig floor.

Prevents damage to the Quick-Connect and safely secures the connector and the BOPs when not in use.

Before completion, the BOP Quick-Connect is removed and a flange is screwed onto the ILS body.

Enables the use of a conventional tubing head.

ROTATING CASING HANGER & RUNNING TOOL

Production casing hanger is a rotatable fluted mandrel hanger.

Rated for up to 70,000 pounds of rotational torque.

Both fluted mandrel hangers can be substituted with slip-type casing hangers.

We stock slip-type hangers for every job.

Casing hangers are stocked with a blank bottom prep.

Allows quick conversion to slip-on weld or a specific threaded bottom prep.

The connection to the running tool can be tested from the rig floor.

Assures a good leak-free connection before landing the hanger and cementing.

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