

Fontus

Configurable compact wellhead system

APPLICATIONS

- Onshore drilling and production
- Offshore platform drilling and production

BENEFITS

- Configurable sealing and connection options
- Increased service life and reliability
- Compact design that reduces platform size
- Simplified and safer installation
- Reduced rig time during installation and workover operations
- Optimized operational efficiency

FEATURES

- Global-standard 18¾-in metal-to-metal (MTM) and elastomeric sealing system rated to 10,000 psi
- Incorporation of quick connectors on both starter and compact head for fewer BOP connections, wellhead penetrations, and through-BOP and -diverter operations
- Zero-rotation, push-fit, and low-setting-load MTM packoff
- Single-trip hydraulic running tools for both casing and tubing hangers
- Interchangeable packoffs between MTM and elastomeric seals on each casing stage that enables full system configurability
- 50% height reduction compared with previous dual-MTM modular compact wellhead systems
- Debris and alignment tolerance design through proprietary profiles and features
- System validation to temperatures from -20 to 350 degF [-29 to 180 degC] and pressures up to 10,000 psi
- Accommodation of up to 10 control lines within completion string

MTM sealing technology within wellhead designs has historically been used in HPHT field developments. Cameron developed a standard-pressure and standard-temperature compact wellhead system that can endure harsh environments and challenging operating locations that require a long service life.

The Fontus* configurable compact wellhead system provides a globally standardized offering that offers multiple advantages—configurability, robustness, reliability, extensive service life, and a reduced footprint. This next-generation wellhead system has been engineered with the evolution of the MRD* recessed-bore metal-to-metal seal and CANH* rough casing metal-to-metal seal packoff that can

- set or remove on a low axial load for ease of installation or workover intervention
- simplify installation from push-fit installation, reducing any NPT risk caused by rotation
- minimize full system height
- enable a single run for a combined hanger and packoff installation.

As a result, the customer saves time and money during drilling operations.

System configurability

Interchangeability and configurability have been engineered into the design of the Fontus wellhead system to enable various well designs and drilling scenarios while conforming to a complete standard system. Each casing stage or completion can be sealed off with either dual- or single-MTM MRD seals or dual-elastomeric MEC* metal end-cap seals—within the same housing. The starter head can also be configured to suit several conductor sizes and connection mechanisms while retaining the standard main body. Through these configurations, Cameron can offer full flexibility for present and any future wells without changing the wellhead system.

Faster installation

The Fontus wellhead system's single-trip tooling package and standardized design enable rapid installation. The hangers and packoff can now be run in one trip. Additionally, any rotation within the string is performed in a quarter turn for tool makeup and breakout, simplifying installation and reducing potential drilling NPT. Because this system is globally standardized, Cameron technicians are fully familiar with it, thus optimizing performance on installation to reduce operating cost.



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The flexible Fontus wellhead system can be configured to meet environmental and lifetime requirements offshore or on land and can be reconfigured for future needs without changing the wellhead system.

Improved manufacturing efficiency

The global standard offering also improves system availability and lead times, enabling greater flexibility when planning future drilling operations. The savings in project planning can be increased with fewer resources spent defining wellhead system requirements.

Verified durability

The Fontus wellhead system has undergone full API Specification 6A PR2 Annex F qualification.

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