

Cameron Adapt NST

Nested multistage compact wellhead system



Temperature:
–50 to 250 degF
[–46 to 121 degC]



Operating pressure:
5,000 and 10,000 psi
[34 and 69 MPa]



Frac operating pressure:
Up to 15,000 psi
[up to 103 MPa]



Nominal bowl diameter:
13⁵/₈ in

Application

Unconventional shale plays

How it improves wells

By bringing new flexibility and capabilities to wellhead system installation, the globally available Cameron Adapt NST™ nested multistage compact wellhead system accommodates multiple casing configurations for quickly adapting to changes in operational conditions, saves significant rig time to cut costs and related CO₂ emissions, and improves operational HSE.

How it works

The compact design of the Adapt NST wellhead system saves operators time and cost, in comparison with using traditional wellheads, by enabling efficiently landing multiple casing strings within one system. Changes in operational conditions can be responded to rapidly, with the nested profile supporting three- and four-string installations. Rig time savings of up to 45% are delivered by the wellhead system's compatibility with integral other end connections (OECs). Further operational acceleration results from the ability to run the landing mandrel hanger through the diverter and BOP, which enables installing fully assembled and tested housing and conducting cementing offline for all casing strings during pad drilling operations.

Safer and more sustainable installation

In addition to the reduction in CO₂ emissions resulting from installation that requires significantly less rig time, the Adapt NST system provides HSE benefits. Its compact design has a reduced height and weight fit in smaller cellars for a smaller well footprint. Internal lockdown mechanisms minimize wellhead penetrations to reduce the potential for leak paths. The design also minimizes BOP makeup and breakout connections to decrease exposure to cellar hazards.

Additional information

- Engineered for batch drilling, pad operations, and reduced-size cellars
- Incorporates industry-leading rotating capabilities for all mandrel hangers with standardized threading and torque capacities up to 50,000 lbf.ft
- Features landing mandrel assembly with metal-to-metal seal that can be run through a diverter and BOP stack
- Accommodates severe well conditions with a premium elastomer sealing technology
- Offers optional mechanical position indicator for lower casing hanger landing assurance
- Standardizes with interchangeability of components across the Cameron Adapt™ compact wellhead series
- Complies with API Spec 6A (ISO 10423) standard for wellhead and tree equipment
- Measures approximately 30% shorter than a compact multibowl nested-diverter snapping wellhead system
- Uses a single API Spec 6A gasket for 5,000- and 10,000-psi applications
- Offers availability of emergency kits for all strings



The compact design of the Adapt NST system increases operational versatility.