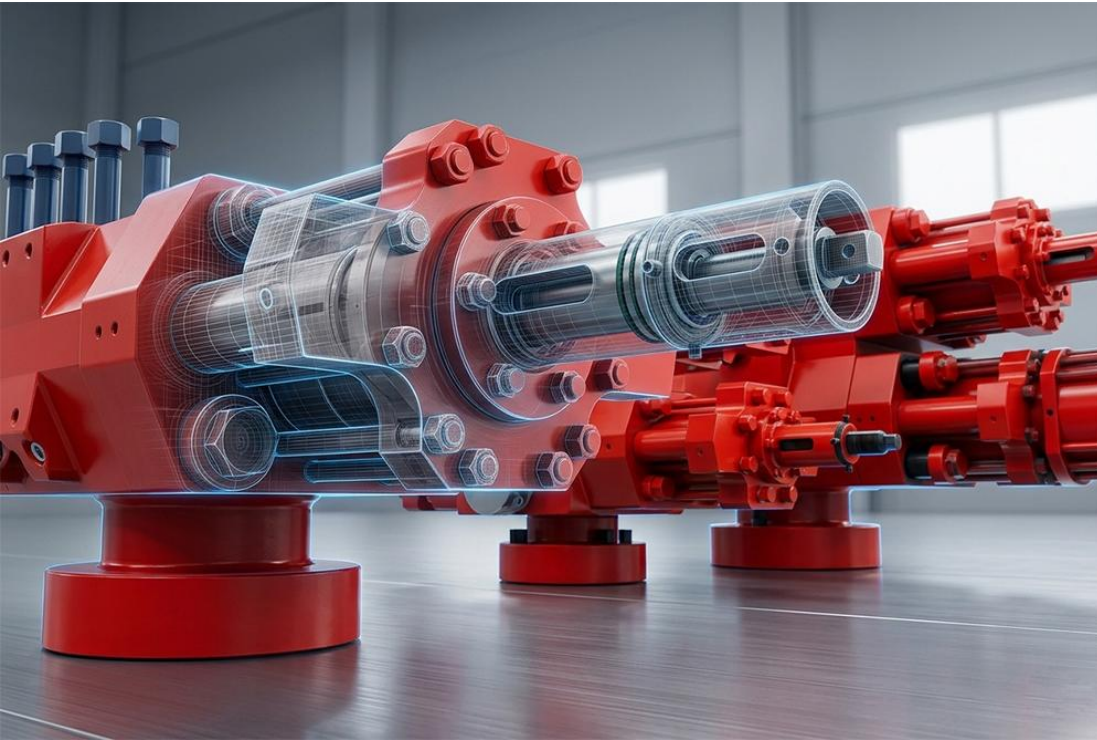




WELLHEAD, BOP & WELL CONTROL INTEGRATION SOLUTIONS

*API 6A, 16A, and 16C certified high-pressure systems suitable
for extreme environments*

About CDI:

Integrated Supply & Engineering for wellhead and well control systems.

CDI is dedicated to providing comprehensive wellhead and blowout preventer systems (Integrated Packages) compliant with API standards for global upstream exploration and drilling/well completion operations. Leveraging a robust high-end supply chain and joint manufacturing facilities, we possess full engineering delivery capabilities ranging from individual component procurement to complete well control and wellhead integration solutions.







**CERTIFICATE OF CONFORMITY OF
QUALITY MANAGEMENT SYSTEM CERTIFICATION**
No family variety class

(Temporary Registration Number)

Endochem, INC., 101-2 Chung-Shan Road, Tainan City, Taiwan, Republic of China
Chi-Feng, A. Associate, 101-2 Chung-Shan Road

Quality Management System
has been awarded this certificate for
conformance with the standard

ISO 9001-2000 and ISO 14001

The quality management system and other aspects of the Endochem, INC. and Chi-Feng, A. Associate, have been found to conform with the requirements of the ISO 9001-2000 and ISO 14001 standards, and the company has been awarded this certificate of conformity. The certificate is valid for a period of 3 years from the date of issuance. The company is required to maintain the system and to undergo a surveillance audit by the certification body at least once a year. The company is also required to undergo a re-certification audit by the certification body at least once every three years. The company is required to maintain the system and to undergo a surveillance audit by the certification body at least once a year. The company is also required to undergo a re-certification audit by the certification body at least once every three years.

Registration No.: **807020000078**

Issue date: **04/11/2002**
Expiration date: **04/11/2005**

  
2002.10.15

www.bsi.com.cn

ISO9001



ISO14001



ISO45001

R & D

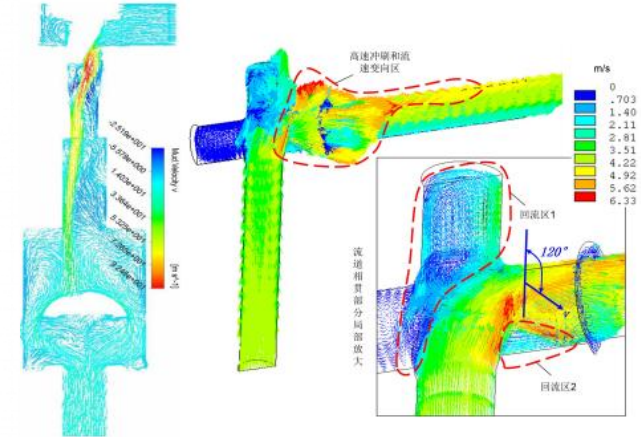


API 6A Performance Verification

Temperature Range: L.X (-46° C to 180° C)

Test Pressure: 25000 PSI

Test medium: Nitrogen



CFD - Computational Fluid Dynamics



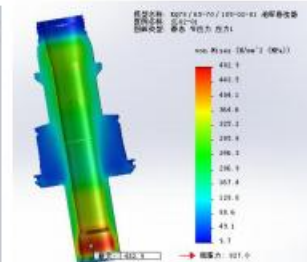
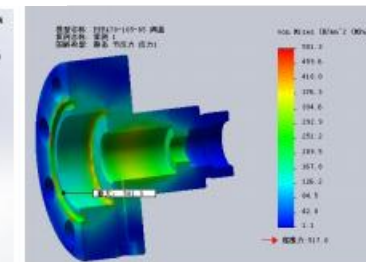
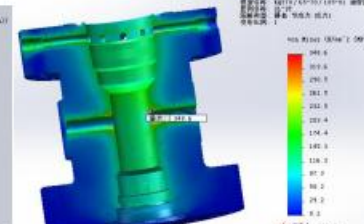
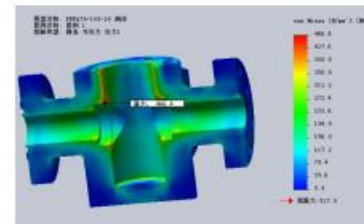
175 MPa valve PR2 test – PR2 performance test

Temperature Range: K+X (-60° C to 180° C)

Test pressure: 30,000 PSI (207 MPa)

Maximum Torque: 1000 N·m

FEA - Finite Element Analysis



Manufacturing and Packaging



CNC Workshop



Finished goods warehouse

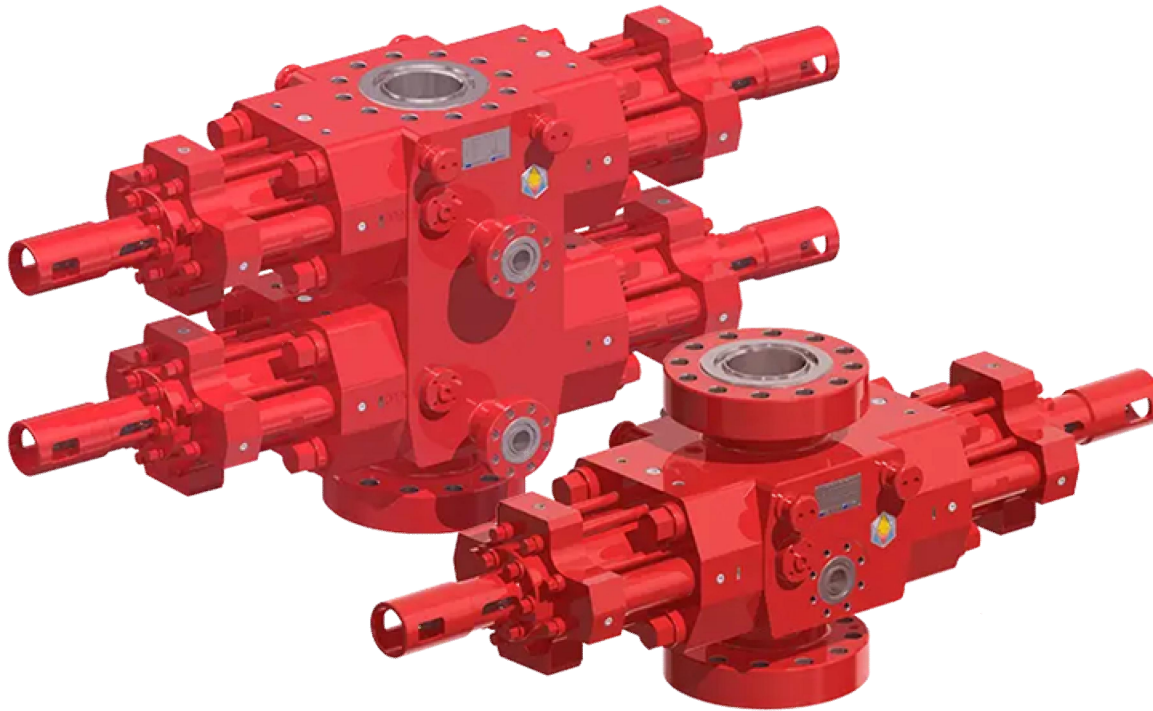


TIG automatic surfacing



The valve body is welded with a 625-nickel-based alloy.

API 16A Heavy-Duty BOP Systems



- Gate-type blowout preventer (Ram BOP)
- Annular BOP
- Complete wellhead blowout preventer stack (BOP Stacks)
- Rated operating pressure: 2,000 PSI – 15,000 PSI
- Bore Size Range: Up to 21-1/4"
- Long diameter, strong shear

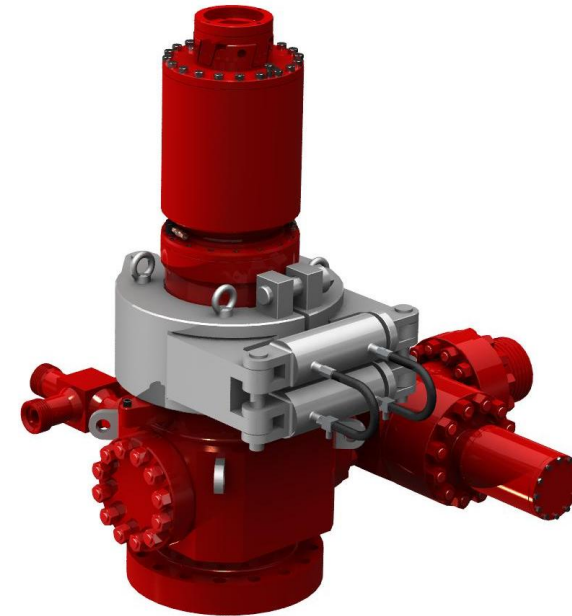
API Spec 16RCD Rotating Control Device

Core Functions:

Sealed rotary drilling tool + enables annular flow control (for underbalanced/pressurized drilling conditions)

Application Scenarios

- Unbalanced Drilling (UBD)
- Drilling operations under pressure
- Drilling operation conditions without well pressure control (i.e., when no pressure is applied to the wellbore).
- Safety Operation System for High-Risk Well Control Environments



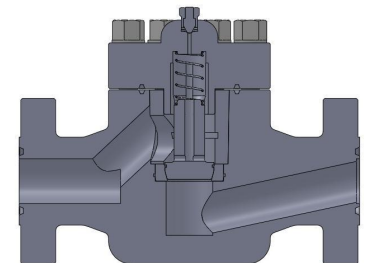
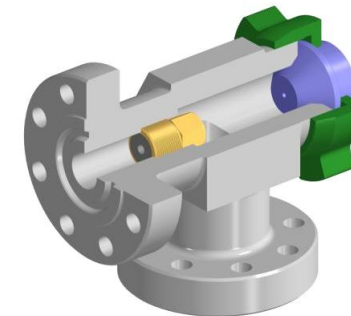
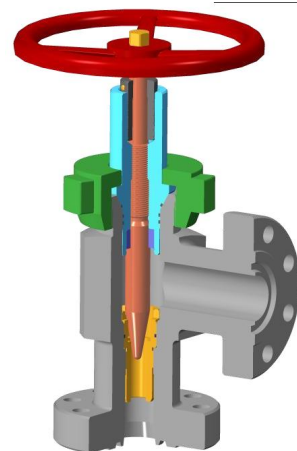
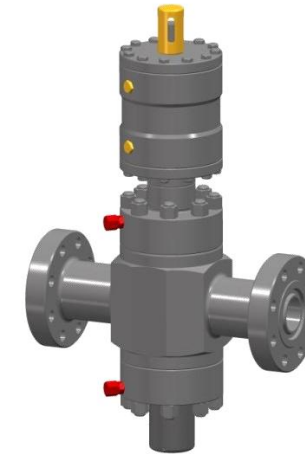
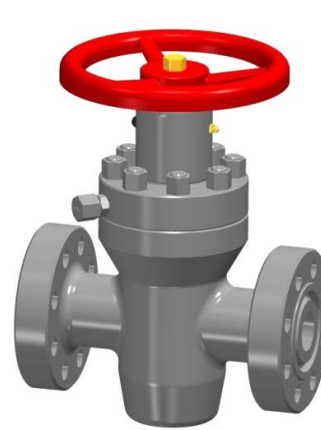
API 6A Wellhead Equipment & Production Tree System



- Casing Head
- Casing Hanger
- Oil Production Tree (Christmas Tree)
- Rated working pressure: 2000–25000 Psi
- Material Grade: AA, BB, CC, DD, EE, FF, HH (highest corrosion resistance grade)
- Temperature range: K, L, P, R, S (-60°C to 180°C)
- Performance Level: PR1, PR2
- Fully supports multiple completion methods and large-diameter fracturing oil production conditions.

API 6A High-end Wellhead Valve

- Slab Gate Valve
 - Ground Safety Valve (SSV)
 - Choke Valve
 - Check Valve
-
- **Rated working pressure:** 2000–25000 Psi
 - **Material Grade:** AA, BB, CC, DD, EE, FF, HH (highest corrosion resistance grade)
 - **Temperature range:** K, L, P, R, S (-60°C to 180°C)
 - **Performance Level:** PR1, PR2

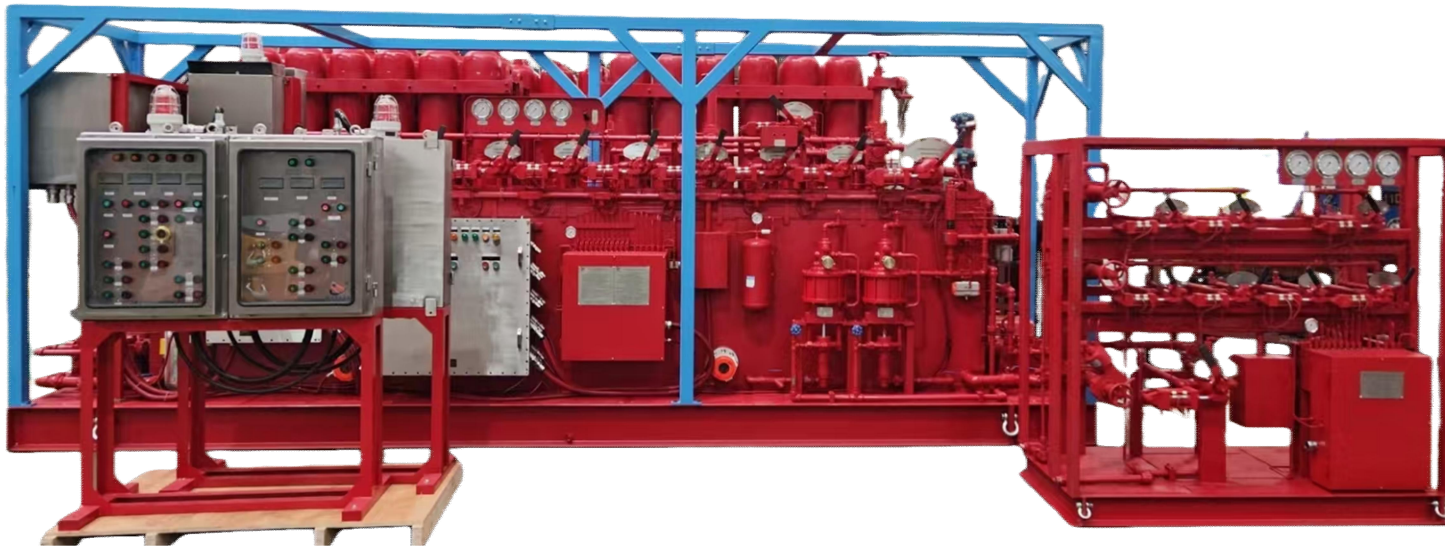


API 16C Surface Choke & Kill Manifold

- Choke Manifold and Kill Manifold
- Well Testing Manifold
- Debris manifold
- Desander / Cyclonic Sand Separator
- Frac Distribution manifold
- Rated working pressure: 2000–25000 Psi
- Material Grade: AA, BB, CC, DD, EE, FF, HH (highest corrosion resistance grade)
- Temperature range: K, L, P, R, S (-60°C to 180°C)
- Performance Level: PR1, PR2



API 16D Intelligent Hydraulic BOP Control Systems



- **Application environment:** offshore platforms, surface platforms; resistant to salt and alkali, and corrosion-resistant.
- **Applicable blowout preventer assemblies include:** annular blowout preventers, single-gate blowout preventers, double-gate blowout preventers, shear gate blowout preventers, diverters, hydraulic valve control systems, and other valve components for controlling wellhead pressure during drilling operations.
- **Applicable models:** FK series, FKQ series, FKDQ series, FKDY series

Well Control Panel (ESD Panel)

Integrated pneumatic/hydraulic ground emergency shut-off system (ESD). It monitors wellhead pressure in real time via high- and low-pressure sensors, automatically triggering closure of the production tree wing valve or main valve upon detection of abnormalities.

- **Work pressure:** 0–20,000 PSI;
- **Medium:** Hydraulic oil/gas;
- **Leading pressure:** 50–145 PSI;
- **Environmental temperature:** -35 to 65°C;
- **Climate conditions:** Land/Desert/Ocean



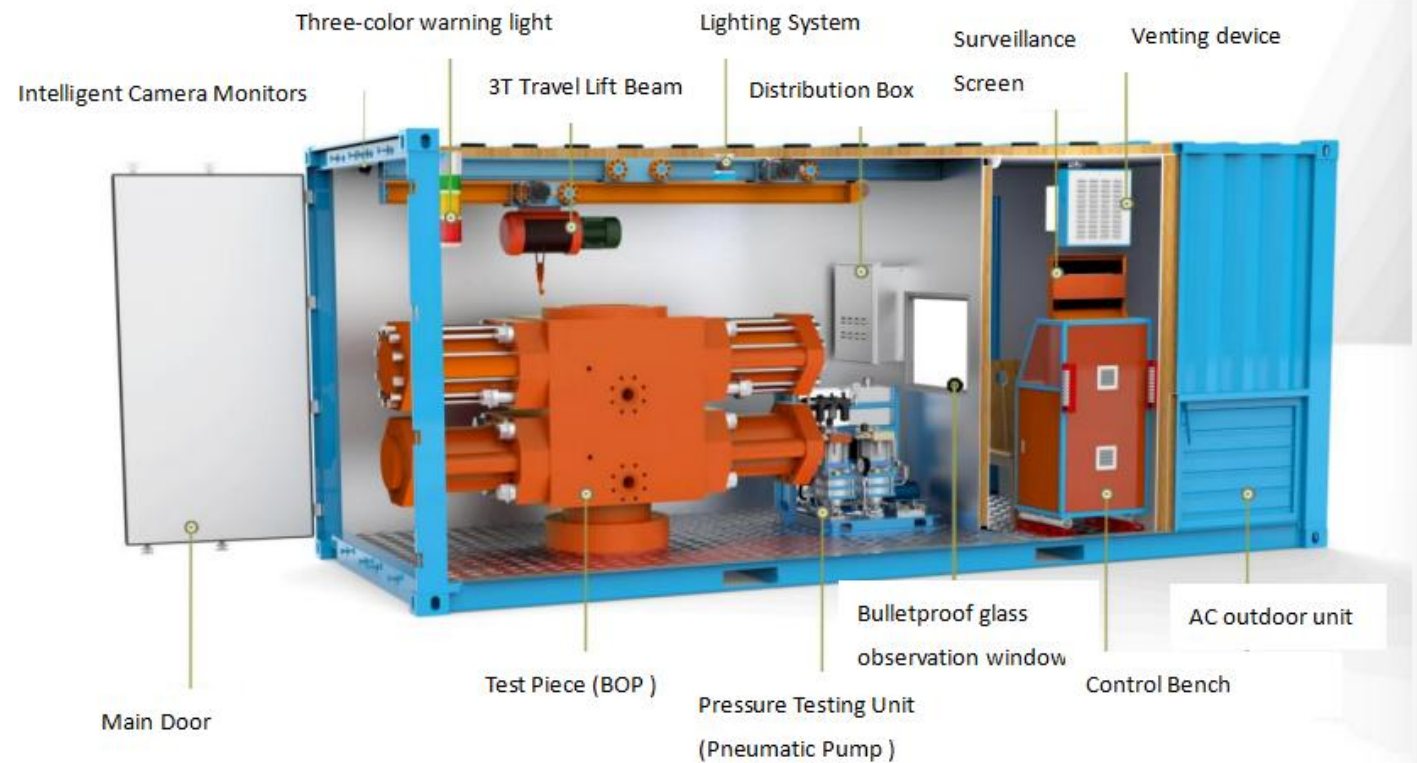
Containerized Pressure Test System

Hydrostatic testing of wellhead equipment on site

Automatic Control · Real-time Monitoring · Data
Recording

Maximum pressure: 30,000 psi

Containerized explosion-proof design for safety and
convenience



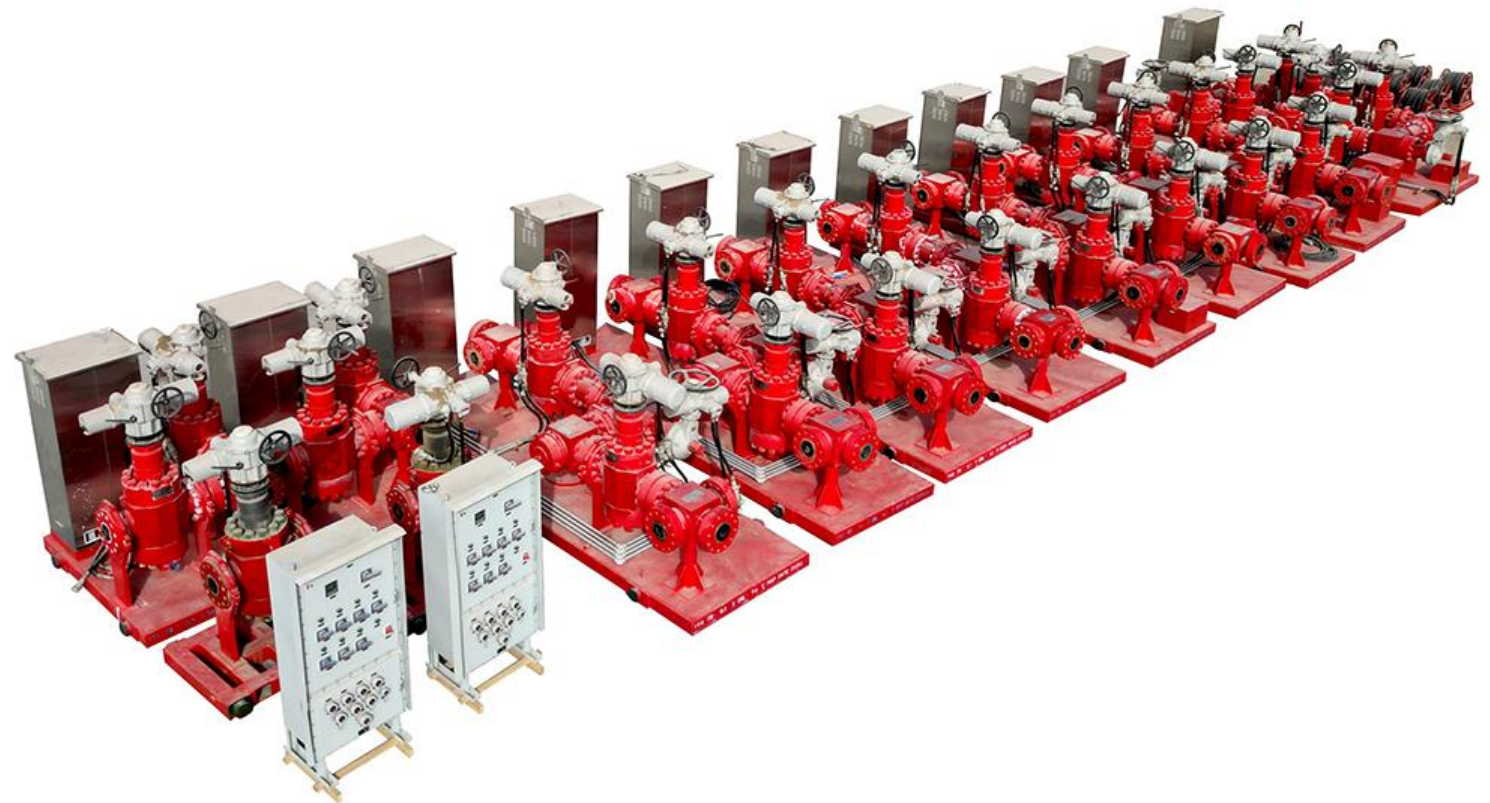
Success History of National Ultra-deep Well

- Double certification from both CNPC and Sinopec
- Performance records of high-pressure operations in **ultra-deep wells (over 8,000 m depth)**
- ultra-deep, ultra-high temperature, ultra-high pressure, high sulfur content
- Operated without any failures for several consecutive years.



Success History of Ultra-high pressure Wellhead Systems (175 MPa/25,000 PSI)

- 175 MPa ultra-high-pressure well control systems, production trees, and pipe assemblies
- No faults detected during the extreme fracturing test.
- Breaking international monopolies



Field Performance Records of Severe and Extreme Acidic Conditions (High H₂S Environments & Arctic Conditions)

- Extreme operating conditions: -46°C extreme cold; high sulfur content in H₂S/CO₂.
- HH-class Inconel 625 overlay welding
- After several years of erosion, the sealing mechanism has failed.



Factory Testing and Delivery Records



- 100% in-house 1:1 simulation test
- Overall pressure reduction verification
- On-site refusal does not match
- Ensure plug-and-play functionality



YOUR INTEGRATED SEAMLESS PARTNER FOR DRILLING & WELL CONTROL

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