

Wellhead Oil Recovery

Medium and high-end wellhead equipment and manifolds

Ultra High Pressure 175MPa/210MPa Wellhead & Christmas Tree

Reference standards: API 6A, ISO10423, GB/T22513 and NACE 0175

It is applied in high-risk exploration wells such as ultra-deep wells, featuring deep burial depth, high pressure coefficient, high single-well design output, and high fluid temperature at the wellhead. These wells have a completion depth of over 8,000 meters, a formation pressure exceeding 180MPa, a formation temperature of up to 170°C, and an expected shut-in pressure of over 135MPa.

Product Features

- Super bearing capacity: The high-strength bearing step can withstand the suspension of tubing more than 10,000 meters and a pressure test load at BOP operating pressure of 30,000psi.
- Ultra-reliable sealing capability: Bimetal seal - CMS crude casing metal seal, which can withstand 210MPa gas sealing pressure at 180°C.
- Ultra-fast shut-in capability: The unique shear safety valve allows for rapid and reliable shut-in in less than 5s.
- Ultra-low valve closing torque: 210MPa DN65 gate valve requires no gear box, which can achieve full opening and full closing in 15 turns, with a low torque.
- Super safe system design: minimum full life cycle of 20 years; all-metal sealing.



30,000psi

Peak working pressure

210MPa

Withstand pressure of gas seal at 180°C

20 years

Minimum life cycle design time