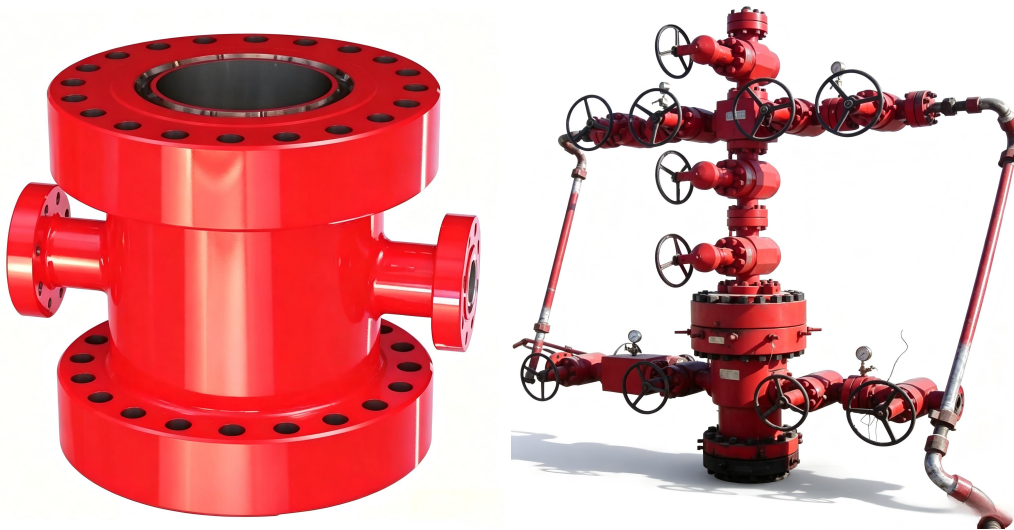


Multi-Functional Drilling Spool & Crossover Spool



CDI API Spec 16A drilling spool is a core flow channel component for well control during drilling operations. Its top flange of the main bore connects to blowout preventers, while the bottom flange is matched with casing head. Two side outlet booms are separately connected to choke manifold and kill manifold. It forms a complete well control circulation system to realize safe pressure control, fluid circulation and blowout prevention management throughout full drilling cycles.

All spools follow API Spec 16A standard, fully customizable with CDI brand marking, applicable for conventional, deep and ultra-deep well drilling projects.



Core Advantage

1. Full pressure range coverage: Rated working pressure from 2000PSI to 25000PSI, matching all mainstream wellhead pressure classes for onshore & offshore drilling.
2. Flexible bore size selection: Wide range of main bores (7-1/16" ~ 21-1/4") and side bores (2-1/16" ~ 4-1/16") to fit various casing sizes and manifold configurations.
3. Wide temperature adaptability: Temperature class K.X, operating temperature range -60°C ~ 180 °C, suitable for cold region and high-temperature deep well working conditions.
4. Standard API flange interface: Standardized flange connection ends, perfectly compatible with BOP stack, casing head, choke & kill manifolds of mainstream brands.
5. High structural strength: Integral forging body with optimized internal flow channel design, excellent erosion resistance and pressure bearing capacity, long service life under high flow fluid impact.
6. Corrosion optional configuration: Available with AA~HH material grades complying with NACE MR0175, meeting sour gas drilling service requirements with H₂ S/CO₂ corrosive media.
7. Easy installation & maintenance: Symmetrical side outlet layout for convenient pipeline assembly; standardized spare parts for quick on-site maintenance.

Technical Specifications

Parameter Item	Technical Specification
Standard Compliance	API Spec 16A
Rated Working Pressure	2000 ~ 25000PSI
Main Bore Sizes	7-1/16" ~ 21-1/4"
Side Outlet Bore Sizes	2-1/16" ~ 4-1/16"
Temperature Class	K.X (-60°C ~ 180°C)
Optional Material Class	AA ~ HH (NACE MR0175 sour service available)
Product Specification Level	PSL1 ~ PSL4 Optional
Performance Level	PR1 / PR2 Optional

Application

1. Conventional onshore oil & gas drilling: Matched with BOP stack to build basic well control system for normal vertical and directional wells.
2. Deep & ultra-deep high-pressure drilling: High-pressure 15000/20000/25000PSI spools for 10,000-meter ultra-deep wells and tight oil/gas resource exploration.
3. Sour gas & corrosive formation drilling: HH-grade corrosion resistant drilling spools for wells containing hydrogen sulfide and carbon dioxide.
4. Offshore platform drilling operations: Marine anti-corrosion coating treatment available to fit offshore wellhead packages.
5. Well testing & workover operations: Used as transition connection component between wellhead and surface manifold during post-drill well intervention.
6. Complete wellhead package matching: Supporting CDI API 6A gate valves, tubing heads and 175MPa ultra-high pressure well control equipment to form unified CDI full well control solutions for bidding and export sales.

Product show

