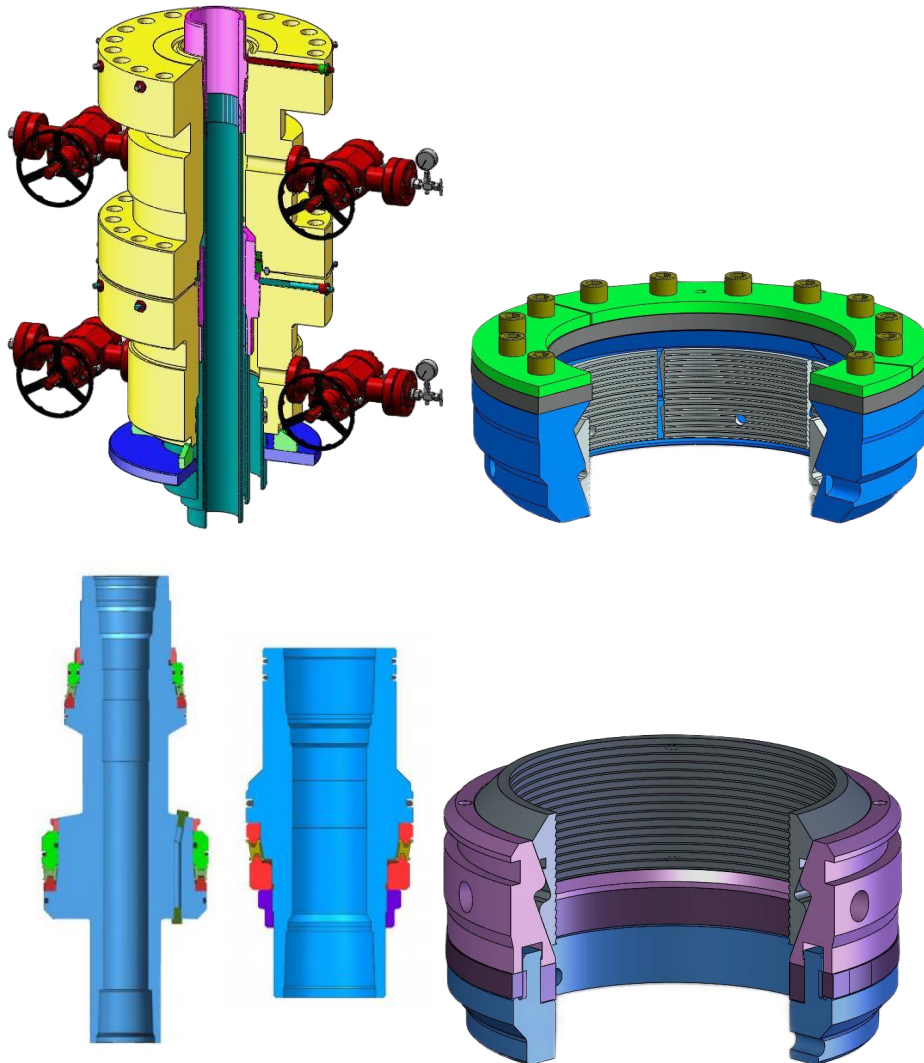


Casing Head & Casing Head Spool



Introduction

CDI full range API Spec 6A wellhead casing system consists of casing heads, casing head spools, multi-type casing hangers and tubing head spools, serving as the foundational base components of complete oil & gas wellhead assembly.

This integrated product portfolio fulfills full well construction requirements: suspend multi-layer casing/tubing strings, seal annular spaces between casing layers, provide standard transition flanges for blowout preventers, production trees and surface manifolds, and reserve side outlets for kill/choke pipeline connection.

All products comply strictly with API Spec 6A standard, fully rebrandable under CDI, covering working pressure from 2000PSI to 25000PSI, applicable for conventional, deep, ultra-deep and sour oil & gas wells.

Core Advantage

1. Complete wellhead matching system: Unified series including casing head, casing spool, multi-style casing hangers, tubing head spool and tubing hangers, supporting one-stop full wellhead package supply.
2. Full pressure grade coverage: Rated working pressure ranging from 2000PSI up to 25000PSI, matching all common well pressure levels for onshore & offshore wells.
3. Casing head bottom connection: Threaded, slip-type, welded options; side outlets: LP thread or studded connection.
4. Multiple hanger designs: WD/W/WE slip-type casing hangers, mandrel casing hangers, mandrel tubing hangers to fit different running & sealing demands.
5. Flexible sealing selection: Main sealing can adopt metal or non-metal sealing structure, reliable zero-leak performance under high pressure & temperature service.
6. Wide size compatibility: Flange bore sizes cover 7-1/16" ~ 30", matching casing sizes from 5" to 30", covering shallow conventional wells to 10,000-meter ultra-deep wells.
7. Sour corrosion resistant optional: AA~HH material grades complying with NACE MR0175 / ISO15156, suitable for H₂ S & CO₂ containing corrosive formations.
8. Wide temperature adaptability: Temperature class K.X (-60°C ~ 180°C), fits frigid cold regions and high-temperature deep well working environments.
9. Standardized API flange interface: Interchangeable flanged ends compatible with mainstream BOP, Christmas tree and manifold equipment from global brands.

Technical Specifications

General Shared Specifications

Parameter Item	Specification
Design Standard	API Spec 6A
Rated Working Pressure	2000PSI ~ 25000PSI
Temperature Class	K.X (-60°C ~ 180°C)
Optional Material Class	AA ~ HH (NACE sour service compliant)
Product Specification Level	PSL1 ~ PSL4 Optional
Performance Level	PR1 / PR2 Optional

Model Classification & Size Range

Product Model	Core Function	Matching Flange & Casing Size Scope
CDI-CH Casing Head	Base component for surface casing suspension & sealing	Top flange: 9"~30"; Bottom casing size: 5"~30"; Side outlet: 2"~4"LP / 2-1/16"~4-1/16" studded
CDI-CHS Casing Head Spool	Support intermediate & production casing, transition for upper wellhead equipment	Top flange:9"~26-3/4"; Bottom flange:11"~30"; Side outlet: 2"~4"LP / 2-1/16"~4-1/16" studded
CDI-WD Slip Casing Hanger	Mounted under casing head, lock casing via bolt force	Top flange:9"~30"; Matched casing:5"~30"
CDI-W Slip Casing Hanger	Installed in spool inner bore, self-weight triggered sealing	Top flange:11"~30"; Matched casing:5"~24"
CDI-WE Slip Casing Hanger	Manual bolt pre-tightened sealing, slip tooth bite casing string	Top flange:11"~30"; Matched casing:5"~24"
CDI-MCH Mandrel	Threaded casing suspension,	Top flange:11"~26-3/4";

Product Model	Core Function	Matching Flange & Casing Size Scope
Casing Hanger	metal/non-metal dual sealing options	Matched casing:5"~20"
CDI-THS Tubing Head Spool	Suspend tubing string, connect casing head & Christmas tree	Top flange:7-1/16"~11"; Bottom flange:9"~13-5/8"; Side outlet:2-1/16"~4-1/16" studded
CDI-MTH Mandrel Tubing Hanger	Suspend tubing, reserved HBPV & cable penetration ports	Top flange:7-1/16"~30"; Matched tubing:2-3/8"~24"

Application

1. Conventional onshore vertical & directional oil/gas wells: Standard casing head + W-type slip hanger combination for regular shallow & medium-depth wellhead construction.
2. Deep & ultra-deep high-pressure wells: 15000/20000/25000PSI high-pressure casing spools & mandrel hangers for tight oil, tight gas and 10,000m deep well exploration.
3. Sour gas & corrosive formation wells: HH-grade corrosion resistant casing system to resist hydrogen sulfide and carbon dioxide medium erosion.
4. Offshore platform wellhead packages: Marine anti-corrosion coating treatment available, matched with CDI API 16A drilling spools and BOP stacks for offshore drilling & production.
5. Large-scale fracturing & acidizing stimulation wells: High pressure rated casing head assembly withstands frequent pressure fluctuation during reservoir reconstruction operations.
6. Complete wellhead turnkey solutions: Supporting CDI API 6A flat gate valves, 175MPa ultra-high pressure well control manifolds and API 16A drilling channel equipment to form unified CDI full well control product suite for global bidding & export.
7. Well test & workover intervention: Reliable casing annular sealing performance ensures safe pressure control during post-production well servicing.

Product show

