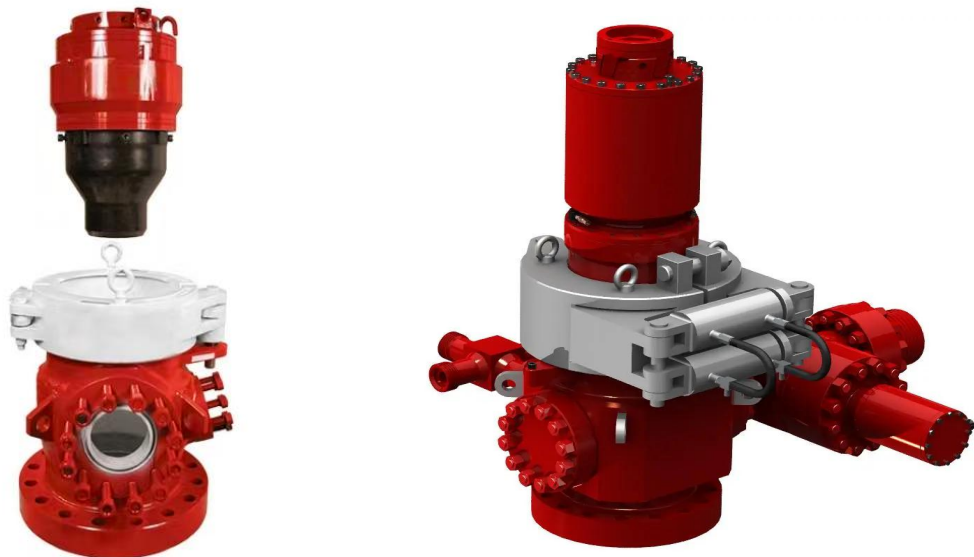


API 16RCD High Integrity Rotating Control Device (RCD) System for MPD/UBD Operations



Conventional well control setups cannot provide continuous dynamic sealing around spinning drill strings during high-risk managed pressure drilling. This elite system utilizes advanced dual dynamic elastomer elements and a heavy-duty cooled bearing assembly to ensure zero-leak fluid diversion while tripping or rotating. Purpose-built for high-safety Managed Pressure Drilling (MPD), Underbalanced Drilling (UBD), and continuous live-well snubbing applications.

Key Features & Advantages

- **Advanced Dual-Element Sealing:** Specialized premium polyurethane cores deliver exceptional dynamic sealing performance with minimal friction and heat buildup
- **Active Cooling System:** Integrated hydraulic cooling and lubrication skid drastically reduces heat generation during high-speed rotation, extending element service life
- **Rapid Field Replacement:** Visualized hydraulic quick-latch mechanisms allow field technicians to safely replace the dynamic sealing element in under 15 minutes
- **Dual-Bearing Stabilization:** Passive drill string driven design with dual-bearing stabilization ensures smooth operation and enhanced durability
- **Automated Monitoring:** PLC telemetry system provides real-time seal pressure and temperature monitoring for proactive maintenance

Technical Specifications

Specification	Details
Static Pressure Rating	Up to 5,000 Psi
Dynamic Pressure Rating	Up to 2,500 Psi
Main Pass-through Bore	Max 7-1/16" or 11" through-bore
Maximum Rotating Speed	150 RPM to 200 RPM
Drive Type	Passive drill string driven with dual-bearing stabilization
Control System	Automated PLC telemetry for seal pressure and temperature monitoring
Compliance	API Spec 16RCD certified

Application

- **MPD/UBD Service Providers:** Continuous annular pressure control during precise micro-flux managed pressure drilling operations
- **Shale Gas Deep Drilling:** Secure fluid diversion during high-speed rotation in long lateral sections

- **Live-Well Snubbing:** Safe continuous operations under live well conditions
- **Customization Available:** Custom dynamic rubber compounds optimized for oil-based muds (OBM) or synthetic fluids; bespoke containerized hydraulic control panels

Product show

