

## iRCD

Vertechs iRCD is an all-electric intelligent RCD solution for MPD and UBD. As oil and gas exploration advances into deep-sea, deep-earth, high-pressure, and unconventional reservoirs, traditional RCDs face increasing challenges in deployment, operation, and maintenance. iRCD features a non-decoupled electric locking mechanism to prevent wear from installation misalignment, and a high-pressure-resistant, self-lubricating dynamic seal assembly, eliminating the need for external hydraulic cooling. These innovations simplify setup, extend seal lifespan, reduce operational costs, and save installation time.

### FEATURES

- Self-lubricating system, no additional cooling required
- Self-positioning deployment with dedicated insertion and retrieval tools
- Applicable to land rigs, modular rigs, and jack-up rigs



### SPECIFICATIONS

| Design & Manufacture Standard | API 16RCD | Latching System Actuator | Electric (Low-voltage DC, Explosion-proof, Non-decoupled) |
|-------------------------------|-----------|--------------------------|-----------------------------------------------------------|
| Max. Static Pressure          | 5,000 psi | Max. Dynamic Pressure    | 2,500 psi                                                 |
| Bearing Assembly              | 8 1/4 in  | Bottom Flange            | 13 5/8 in                                                 |

|                     |               |                       |                  |
|---------------------|---------------|-----------------------|------------------|
| Housing Max. Outlet | 7 1/16 in     | RPM                   | 0 – 200 rpm      |
| Housing Height      | 46 – 53 in    | Weight                | 1.5 – 3 T        |
| Packing Elements    | Single / Dual | Lubricating & Cooling | Self-lubricating |

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