

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

Contact Us

engineering@vertechs.com

Chengdu | Dammam | Houston | Calgary | Hong Kong

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