

iRCD Pro

Vertechs iRCD Pro is an all-electric integrated wellbore pressure control system built on intelligent RCD technology. It integrates core functions of RCD and MPD manifold into a single compact unit, enabling conventional rigs to perform MPD operations with remote support powered by IoT connectivity. The system reduces equipment footprint by 60%-75%, lowers weight by over 50%, shortens installation and maintenance time, and minimizes crew requirements, enhancing both efficiency and safety.



FEATURES

- Enable transition from SBP to WBP
- Integrate core functions of iRCD and IPC MPD systems in a compact system (<43 ft² (4 m²)) with

±15 psi (±0.1 MPa) pressure control accuracy

- Reduce deployment time by 60%, crew by 50% compared with a conventional MPD spread
- Applicable to land rigs, modular rigs, and jack-up rigs

SPECIFICATIONS

iRCD Pro SPECIFICATIONS			
Compliant with	API 16RCD, 16C, 16A	Latching System Actuator	Electric (Low-voltage DC, Explosion-proof, Non-decoupled)
Static Pressure Rating	5,000 psi [35 MPa]	RCD	iRCD Spec.
Branches	2 Choke Branches 1 Direct (Bypass) Branch	Connection Size	4 1/16 in
Valves Qty	9-10 pcs (Customizable)	Orifice Size	2 in / 3 in
Footprint	<43 ft ² [< 4 m ²]	Pressure Control Accuracy	±15 psi [±0.1 MPa]
Packing Elements	Single / Dual	Lubricating & Cooling	Self-lubricating

iRCD SPECIFICATIONS			
API Monogrammed	API 16RCD	Latching System Actuator	Electric (Low-voltage DC, Explosion-proof, Non-decoupled)

Static Pressure Rating	5,000 psi [35 MPa]	Dynamic Pressure Rating	2,500 psi [17.5 MPa]
Bearing Assembly Through-Bore	8 1/4 in	Bottom Flange	13 5/8 in
Housing Outlet	7 1/16 in, 4 1/16 in, 2 1/16 in (Customizable)	RPM	0-200 rpm
Housing Height	53 in [1,345 mm]	Weight	8,400 lbs [3.8 MT]
Packing Elements	Single / Dual	Lubricating & Cooling	Self-lubricating

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