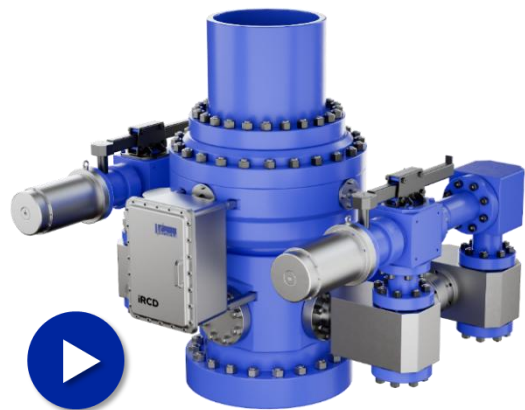


iRCD Pro

Vertechs iRCD Pro is an all-electric integrated wellhead pressure control system built on intelligent RCD technology. It integrates RCD and MPD manifold functions 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 ($< 4 \text{ m}^2$) with ± 15 psi pressure control accuracy
- Reduce deployment time by 60%, crew by 50%
- Applicable to land rigs, modular rigs, and jack-up rigs



SPECIFICATIONS

iRCD Pro SPECIFICATIONS			
Design & Manufacture Standard	API 16RCD、16C、16A	Latching System Actuator	Electric (Low-voltage DC, Explosion-proof, Non-decoupled)

Max. Static Pressure	5,000 psi	RCD	iRCD Spec.
Bypass Line Qty	3 – 4 No. (Customized)	Connection Size	4 1/16 in
Valves Qty	9 – 10 No. (Customized)	Orifice Size	2 in / 3 in
Footprint	< 4m ²	Pressure Control Precision	±15 psi
Packing Elements	Single / Dual	Lubricating & Cooling	Self-lubricating

iRCD 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

IPC-MPD SPECIFICATIONS			
Design & Manufacture Standard	API 16C	Actuator	Electric (Low-voltage DC, Explosion-proof)
Pressure Rating	5,000 psi	Pressure Control Precision	±15 psi
Connection Size	4 1/16 in	Orifice Size	3 in / 2 in

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