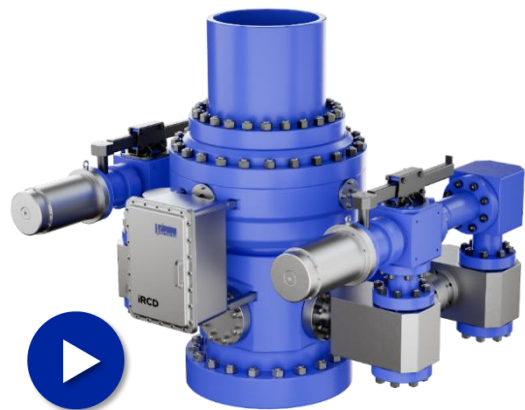


iRCD Pro

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 m²) 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			
API Standard	API 16RCD、16C、16A	Actuator	Electric (Low-voltage DC, Explosion-proof, Non-decoupled)

Max. Static Pressure	5,000 psi	RCD	iRCD Spec.
Bypass Line	3 – 4 (Customized)	Bypass Connection	4 1/16 in
Valves	5 – 7 (Customized)	Orifice Size	2 in / 3 in
Foot Print	< 4m ²	Precision	±15 psi
Packing Elements	Single / Dual	Cooling	Self-lubricating

iRCD SPECIFICATIONS			
API Standard	API 16RCD	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
Hosing Max. Outlet	7 1/16 in	RPM	0 – 200 rpm
Hosing Height	46 – 53 in	Weight	1.5 – 3 T
Packing Elements	Single / Dual	Cooling	Self-lubricating

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

Contact Us

engineering@vertechs.com

Chengdu | Dammam | Houston | Calgary | Hong Kong

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