

iRCD Pro Max

Vertechs iRCD Pro Max is an electric integrated wellhead pressure control system, upgraded from iRCD Pro to support micro-flow, deepwater, and other specialized operations. It expands pressure control capabilities from WBP to PMCD, FMCD, and MPC, fully replacing the functions of RCD and MPD manifolds with a single solution. Enhanced by intelligent control algorithms, iRCD Pro Max delivers greater flexibility, precision, and safety while reducing maintenance requirements and operational risks. It is customizable for land rigs, modular rigs, and jack-up rigs, improving overall efficiency, reliability, and cost-effectiveness.

FEATURES

- Enable transition from WBP to PMCD, FMCD, and MPC
- Integrate all functions of iRCD and IPC MPD systems in a compact system ($\leq 7m^2$) with ± 15 psi pressure control accuracy
- Reduce deployment time by 60%, crew by 50%, and costs by 30%
- Upgrade service available from iRCD Pro to iRCD Pro Max
- Applicable to land rigs, modular rigs, and jack-up rigs



SPECIFICATIONS

iRCD Pro Max 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.
Branches	IPC MPD Spec.	Outlet Size	4 1/16 in
Valves Qty	9 – 10 (Customized)	Mass Flow Meter	1
Footprint	< 7m 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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