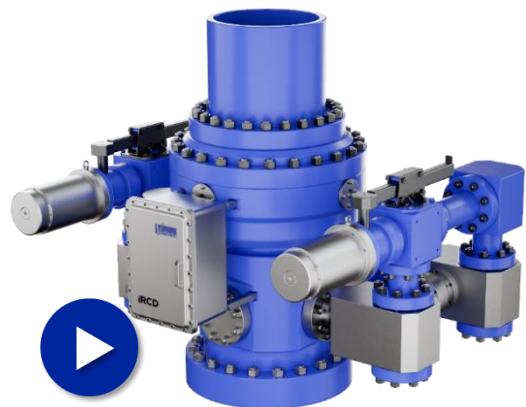


iRCD Pro

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 ($\leq 4 \text{ m}^2$) 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 | | | |
|-------------------------|-------------------|----------|---|
| 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 |

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