

Managed Pressure Drilling (MPD)

Nabors Integra™ Managed Pressure Drilling (MPD) is an advanced drilling technique that optimizes wellbore pressure, enhancing operational efficiency, and safety. By precisely managing the balance between wellbore pressure and formation pressure, Nabors Integra™ mitigates drilling challenges, maximizes reservoir productivity, and ensures superior control throughout the drilling process.

Benefits of Integra™ Managed Pressure Drilling (MPD)

- Reduce rig set up and rig down time
- Increased drilling efficiency
- Enhance wellbore stability
- Cost saving of drilling fluid
- Reservoir characterization
- Minimize environmental impact

Nabors MPD-Ready® Systems are

- Modular
- Scalable
- Cost-effective
- Third Party Rig Compatible

It is a plug-and-play system that can be easily integrated into existing & third-party drilling rigs.



Integrated Express Single Choke

- Single choke system
- Integrated to the driller's HMI through SmartROS
- Mud pump safety interlocks
- Largest market share in L48

Dual Choke

- Dual choke system
- Stand alone system
- Ground or rig floor installation

Integrated dual choke

- Dual choke system
- Integrated to the driller HMI through SmartROS
- Software monitoring capabilities
- Mud pump safety interlocks

Rotating Control Device (RCD)

Integra's Rotating Control Devices (RCDs) are integral to our MPD drilling rigs, designed for onshore unconventional drilling. These devices allow for effective control as RCDs do not control pressure. Essential for safe and controlled drilling, especially in challenging pressure management scenarios.

RCD Products Applications

- Managed Pressure Drilling
- Underbalanced Drilling
- Geothermal Wells
- Pressurized Mud Cap Drilling
- Containment of Wellbore Returns



Titan 5 RCD Assembly

Rated up to 5000 psi
Hydraulically Actuated Clamp



ARES 1578 Bearing Assembly

Static Pressure Rating up to 3,000 psi.
Dynamic Pressure Rating of 1500 psi



ARES 3078 Bearing Assembly

Static Pressure Rating up to 5,000 psi.
Dynamic Pressure Rating of 2500 psi



Scan the QR code to explore our equipment rental services and request a quote for Integra™ MPD

RCD Gate Valves (HCR)

Nabors Integra™ RCD Gate Valves (HCR) are high-performance valves primarily used in drilling to manage the flow of drilling fluids. They are designed to withstand extreme conditions, featuring a forged body construction and metal-to-metal sealing. These valves are typically rated up to API 6A 15,000 psi.

HCR valves come in a package consisting of two gate valves: the flowline side measures 7-1/16", while the MPD side measures 4-1/16".

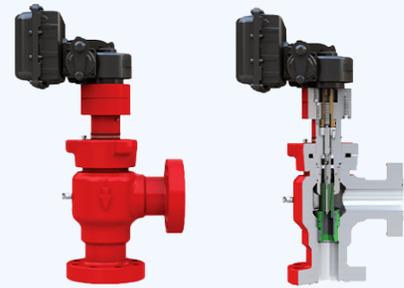


**Magnum 4" & 7" HCR Valves Available
(Rated Up to 5,000 psi)**

Remote Control Chokes (RCC)

Nabors Integra™ RCCs empower operators to efficiently manage well control challenges. Crafted for durability, dependability, and user-friendliness, our RCCs are meticulously designed to accommodate diverse drilling requirements, ensuring adaptability and ease of use across operations.

Efficiently manage well control challenges while cutting operational cost.

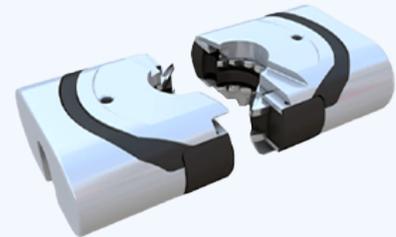


**Electric Model CXC2 & CAM30 Available
(Rated Up to 15,000 psi and 10,000 psi)**

Variable Bore Rams (VBR)

Nabors Integra™ Variable Bore Rams (VBRs) adjust to seal around various drill pipe sizes, reducing costs and rig-up time by eliminating the need for ram changes. Built for reliability and ease of use, they streamline inventory

management while delivering high performance. Rated up to 10,000 psi and 300°F, they seamlessly integrate with U-Surface ram-type BOPs.



11" & 13-5/8" VBR Models Available

Mud Screen Assembly (MSA)

Integra™ offers an extensive lineup of mud screens for diverse drilling needs. Known for their durability, consistent performance, and user-friendly design, our mud screens excel in demanding drilling environments.

They feature a pressure rating of 7,500 psi, a maximum flow rate of 850 gpm, and 4" - 1002 connections.

