

MPowerD 1500S

Standalone Option

The MPowerD™ 1500S system is a fit-for-purpose system that combines a complete set of MPD automated features with the field-proven NOV HXE Hydraulic choke. Our choke and control system have been proven for use in many MPD applications and is most suitable for land drilling operations.

Our 1500S product is available as a standalone or manifold option.

Features and Benefits

This easy-to-install system offers simple operation and maintenance within a small footprint, providing a cost-effective option for your MPD applications and overall ownership costs. Each MPowerD system features robust designs, and the choke includes these proven subcomponents:

HXE-G3 choke

Reversible gate and seat designed to direct high-velocity wear away from the positive sealing surface

- Extends choke life
- Reduces cost of ownership

Customizable

- Features 3 in. max orifice size (can be converted in the field to 2 in. or 1½ in. orifice)

Ruggedized, simple control systems

Setpoint PLC local control panel

- Monitors key drilling parameters such as pump strokes, standpipe pressure, wellhead pressure, and choke position simultaneously and continuously without fatigue
- Automatically adjusts the choke as needed to maintain optimal annular pressure

Manual hydraulic local control panel

- Enables the operator to quickly respond to changing drilling conditions

*Includes an optimal HMI that is intuitive and simple for the driller or other rig personnel to directly control the MPD system that is accessible in either a standard touch screen PC or tablet.

Safety

Inconel nickel-chromium alloy 625 for high strength and outstanding corrosion resistance

- Lower ownership costs

Technical Specifications

Choke Specifications: Standalone Option

Working pressure	5,000 psi
Flange inlet and outlet	API 4 1/16 in.
Service	Sour NACE MR0175
API standards	API 6A and API 16C monogrammed
Ring groove inlay	CRA 625
Temp class	P+T' (-29 to 180°F)
Choke model	HXE-G3
Choke actuator	Hydraulic
Choke size	3 in.
Area classification	Class 1, Div.1, Groups A, B, C, and D hazardous locations
Manufacturing certification	ISO 9001-2008 and API Q1 9th edition

