

MPowerD Buffer Manifold

The MPowerD buffer manifold is designed to route flow without a need to reconfigure piping. The buffer manifold can be used as part of advanced drilling systems, either in a riser gas handling system or as part of a full managed pressure drilling (MPD) system including pressurized mud cap drilling system.

Features and Benefits

Local control panel with remote interface

- Allows local or remote operation and integration with MPD system and riser gas handling system
- Amphion™ and Cyberbase™ ready

Electrically actuated valves with manual override

- Provides precise control and reliable operation of the valves

Valve position, pressure, and temperature sensors

- Provides control verification and real-time detection of failures

DNV 2.7-1-compliant lifting points with ISO 1161 corners

- Ease of transport

API 6A valves and blocks

- Industry-standard components

Full drip tray with 1-in. NPT drain

- Spill protection and easy cleanup

Safety

- Dual overpressure protection
- MPD 30 pressure relief valve option

Technical Specifications

Working pressure.....	3,000 psi
Area classification.....	Class 1, Division 1
Service.....	Sour NACE MR0175
API standards.....	API 6A
Flange size.....	5½ in.
Equalization line.....	2¼ in.
Relief lines.....	3-in. Fig. 1502
Performance requirement.....	PR-1
Ambient temperature.....	-4 to +113°F (-20 to 45°C)
Valve type.....	Anson E-type gate
Valve actuation.....	Electric
Relief valve.....	Titan Class RX
Flange ring groove inlay.....	CRA 625
Dimensions (L x W x H).....	173 in. x 95 in. x 87 in.
Weight.....	27,780 lbm
Lifting.....	DNV 2.7-1

