

Dash® 3 Electrohydraulic Control Module

NEW GENERATION ELECTROHYDRAULIC (EH) SYSTEM FOR EXPLORATION AND APPRAISAL APPLICATIONS

OVERVIEW

Halliburton Dash® EH Control System brings speed, strength, and simplicity. This key technology is designed to work in conjunction with Halliburton's Veto® premier 3-inch 15k subsea safety system.

The Dash EH system should be added to the Veto system when a rapid well shut-in and unlatching of the landing string may be required. This is of paramount importance when conducting well-testing activities from dynamically positioned drilling vessels in water depths up to 10,000 feet (3038 m).

The Dash EH system utilizes smart, redundant electronic controls to perform the emergency well shut-in and landing string disconnect in less than 15 seconds. The Dash EH module is a passive system during normal operations with full direct hydraulic control and full integration with Halliburton's RezConnect® well testing system.

Safety and simplicity are paramount in deepwater well testing. The Dash EH system delivers both.

FEATURES

- » Offers a passive system during normal operations with full direct hydraulic control
- » Full integration with Halliburton's RezConnect well testing system
- » Real-time subsea pressure, temperature, and fluid-flow monitoring of safety system hydraulic control lines
- » Real-time subsea pressure and temperature monitoring of wellbore and annulus

- » Real-time fault monitoring of subsea electronics module
- » Real-time continuity check of all downhole electronics
- » Zone 1 rated surface control system with HMI controls and battery backup system
- » Meets NACE Standard MR0175-2000 requirements for sour gas at all temperatures
- » Conforms to API 17E, F & G.

BENEFITS

- » Hydraulic system operated independently from the Dash EH system so that electrical failure should not compromise the Veto system safety or functionality
- » Simple design relies on minimum electronics and hydraulics to help reduce failures associated with conventional complex E/H and MUX systems
- » Short compact design
- » Full redundancy of critical electronic components
- » Real-time display of bore temperature and pressure within the Dash EH system, which enables prediction of hydrate formation
- » Real-time, touch-screen control for ease of operation and monitoring
- » Reliable solenoids and directional control valves tested with NAS 12 fluids and up to 5,000 cycles



Equipment Specifications

Applicable Standards	
ISO13628-6 / API 17F	Design and Operation of Subsea Production Systems
ISO13628-7 / API 17G	Completion Workover Riser Systems
ISO13628-4 / API 17D	Design and Operation of Subsea Production Systems Wellhead and Tree Equipment
API 6A	Specification for Wellhead and Christmas Tree Equipment
NACE MR0175-2000	Materials for Use in H ₂ S Environments

Operating Limits	
Maximum Working Pressure	15,000 psi (1,034 bar)
Maximum Test Pressure	Bore 22,500 psi (1,551 bar) Control Line 18,750 psi (1,293 bar)
Minimum Working Temperature	32°F (0°C)
Maximum Working Temperature	Mechanical 350°F (177°C) Control Module 275°F (135°C)
Tensile Capacity at 0 psi	800,000 lb (3,558 KN)
Tensile Capacity at Working Pressure	340,000 lb (1,512 KN)
Maximum Torque Load	20,000 ft-lb (27,116 N-m)
Maximum Annulus Hydrostatic	8,000 psi (551 bar)
Service	H ₂ S

Physicals	
Overall Length	153 in. (3,891 mm)
Major Diameter	15-1/2 in. (394 mm)
Bore	3 in. (76 mm)
End Connections	5 in. 3TPI Stub Acme
Approximate Weight	5,080 lb. (2,304 kg)

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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