

FloConnect® Choke Manifold

ENHANCED FLOW CONTROL ACCURACY, SAFETY, AND RELIABILITY VIA INTELLIGENT CONTROL AND MONITORING

OVERVIEW

The FloConnect® surface automation platform is a breakthrough in well controllability for surface well testing applications. As part of this platform, Halliburton Testing and Subsea offers a highly automated, electronically controlled choke manifold that provides an extended service life with superior efficiency and added safety.

CONTROL AND MONITOR WELLHEAD PARAMETERS

The innovative FloConnect choke manifold enables an operator to control and monitor wellhead parameters, as well as the health of the choke manifold, from a ruggedized tablet or via a secondary remote location, such as the command center.

Unique capabilities of this automated choke manifold include precise choke management and engineered trim configurations, which improve performance, well controllability, and transitions between chokes, thus, minimizing disruptive events. It is designed to efficiently dissipate energy and reduce velocity, with an extra-heavy wall for flowback service, and the most reliable performance in erosive and sandy environments and other harsh applications.

The high level of automation (LoA) built-in “smart” technology leverages operational experience and standard operating procedures more advanced than basic remote-control systems (e.g. push-button routines that execute an operational sequence without user assistance to bring well online, shut-in well, and perform transition operations).

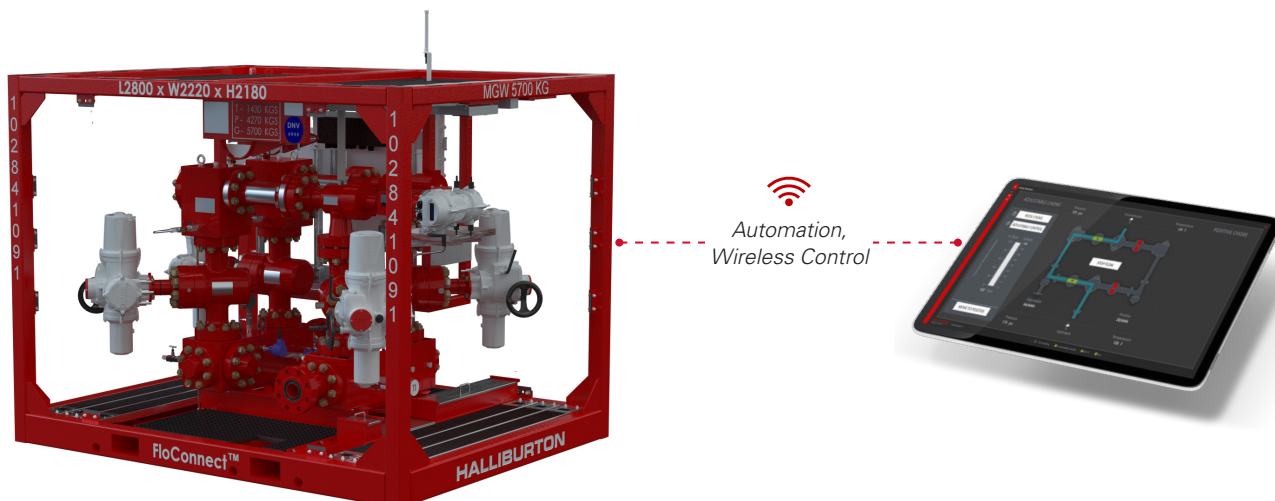
Equipment condition monitoring is continuously provided while in normal operation—generating alarms, health checks, and predictive and preventive maintenance. This instant awareness informs and assists operators for better decision-making and control.

FEATURES

- » Highly automated and electronically controlled
- » Built-in “smart” technology
- » Precise choke management
- » Extra-heavy wall to support flowback
- » Engineered trim configurations
- » Command center and/or tablet monitoring

BENEFITS

- » Out of the line of fire and less user intervention
- » Optimized workforce deployment
- » Minimal disruptive events
- » More informed decision-making
- » Efficient, safe operation
- » High performance in harsh applications



Equipment Specifications

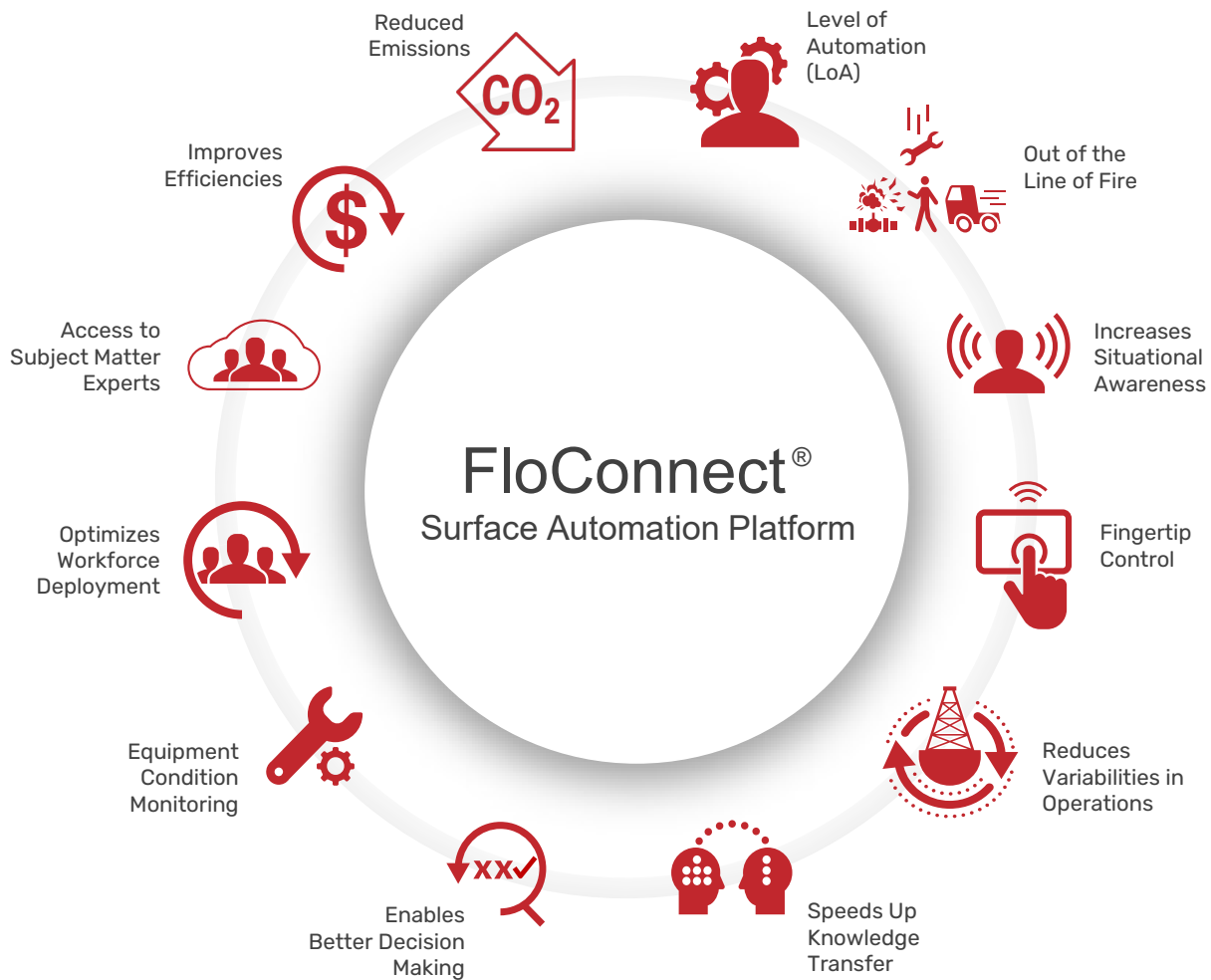
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|---------------------------------|---|
| Part Number | 102841091 |
| Class Temperature, °F (°C) | P+X (-20 to 350 (-29 to 176)) ⁽⁴⁾ |
| Adjustable Choke | Production Choke; Heavy Wall Trim; 1 in., 1.5 in., and 2 in. Trim Options (Highly Resistant to Abrasion in Presence of Solids/Debris) Controllable in 1/64 in. Increments |
| Positive Choke | 2 in. Maximum Orifice |
| Adjustable Vs. Positive Choke | Variance (+/-) 1/64 in. (0.0156 in.) |
| Gate Valves | 4x 3-1/16 in. (Conversion Kits are Available for Sandy/Slurry Applications) |
| Fluid Inlet / Outlet | 3-1/16 in. |
| Electrical Power Requirements | 110/230 VAC, 50/60 Hz |
| Skid Frame | Designed in Accordance with DNV 2.7-1 |
| Skid Size (L x W x H), in. (mm) | 110.2 x 87.4 x 85.8 (2,800 x 2,220 x 2,180) |
| Actual Unit Weight, lb. (kg) | 12,566 (5,700) |
| Design | IECEX API 6A, PSL-3, PR2 |
| Service | NACE MR-01-75 |
| Hazardous Zone Area | Zone 1 |
| Modes of Operation | Automated (Wired Wireless) and Manual |
| Performance | Enhanced Well Controllability Reducing Pressure Spikes During Choke Changes (<10% of Upstream Pressure) |
| Equipment Condition Monitoring | Torque Alarms, Temperature Limits, Battery Alarms, Valve Obstructions, Valve Jams, Manual Operations, Actuator Maintenance, Valve Maintenance, Greasing Intervals, Maintenance Interval/Valve Inspections, High / High-High Pressures, High / High-High Temperatures, Critical Flow Alarms |
| Configuration | Outlet Connections can be Configured to be on Same Plane, Vertical Layout Configuration |

Notes

- » These ratings are guidelines only. Contact your local Halliburton surface well testing (SWT) representative for more information.
- » Halliburton Testing and Subsea has developed purchasing specifications to ensure that SWT equipment used by Halliburton meets or exceeds recognized international specifications and industry codes (where/as applicable).
- » Refer to the equipment databook for individual equipment specifications and codes.
- » Manual operation is possible up to 140°F (60°C).
- » Actual job requirements should be reviewed as part of the Halliburton Design of Service (DOS) process.
- » Different configurations are available upon request.

ABOUT FLOCONNECT® SURFACE AUTOMATION PLATFORM

The FloConnect surface automation platform is a common data-centric platform with control functionality that provides automated control of surface well testing (SWT) operations, while monitoring and measuring all factors related to the production of well effluents. This highly scalable and configurable automation platform is designed to meet the needs of SWT applications to maximize operational efficiencies and address complex challenges.



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

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