The Halliburton Chemical Injection System provides operators with precise wellbore chemical management that is designed to optimize flow assurance and production performance and reduce expensive intervention.

Applications for the Chemical Injection System include:

- Scale
- Asphaltines
- Emulsions
- Hydrates
- Foaming
- Paraffin
- Scavengers
- Corrosion

**Benefits**

- Maintains flow assurance
- Optimizes production performance
- Helps reduce costly intervention

**Chemical Injection Mandrels**

Two types of chemical injection mandrels are available.

- The non-welded mandrel features a robust one-piece machined design for use in all applications, including deep water. This mandrel utilizes the same design criteria as the permanent downhole gauge mandrel.
- The welded pup joint mandrel is designed for use in lower risk environments such as shallow set, non-deviated wells or land applications.

**Dual Check Valves**

The Chemical Injection System includes dual check valves, providing redundant checks (one hard seat and one soft seat). The connection to the chemical injection line uses primary and back-up metal-to-metal ferrules to provide improved sealing and physical strength. Burst disc options are available to allow continual verification of control line pressure integrity during installation.

The check valve is available with different cracking pressures, and it has externally pressure testable connections to reduce rig down-time.

**Injection Lines and Cable Protectors**

Chemical injection lines are available in 316 Stainless Steel and Inconel® 825 alloy as standard, with tubing sizes and wall thicknesses to suit all applications.

The chemical injection lines are typically encapsulated or in a bundled configuration. Lines are supplied fluid-filled, flushed and filtered to the client's required cleanliness standard.

Standard cast or pressed steel cable protectors are used to secure the control lines while running in the hole.

**Installation Services**

Multi-line spooling can be provided, including all necessary spooler units, hydraulic slip rings, pumps, filters and sheave wheels. Full pump capability for operations is provided during running in hole and for commissioning the well. A fluid particle counting service, which is carried out by certified offshore technicians, is also supplied as required.

For more information on any of the details featured here, please email us at completions@halliburton.com.

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