

## ELECTRIC SUBMERSIBLE PUMPS

# Octolock™ diffuser stage-to-stage locking mechanism

For improved pump reliability and failure prevention

### FEATURES

- Anti-rotation design
- Compression tested
- Concentric fit-up
- Cast feature

### BENEFITS

- Increased reliability (less downtime)
- HPHT mitigation
- Extended pump run life

### Overview

Traditional centrifugal pump diffusers rely on compression forces from the assembly process in order to remain static during normal pump operation. When high-pressure/high-temperature (HPHT) events occur, however, there can be a reduction in compressive loads - leading to diffuser rotation, diminished pump reliability, and, potentially, total failure.

### Tested and proven design

Summit ESP® has a unique Octolock diffuser design featuring a stage-to-stage locking mechanism to eliminate pump failures as the result of a spun diffuser. Its proprietary anti-rotation component enables pumps to maintain their high performance during intermittent HPHT events. No diffuser spin was seen as a result of experimental pump testing with .001-inch total stack compression.

### Pump capabilities

The Octolock design prevents diffuser rotation, thus extending pump run life and reducing non-productive time (NPT). This Octolock diffuser stage-to-stage locking mechanism – which is available with Halliburton Summit ESP pump series 675, 875, and 950 – can handle flow rates of 2,000 to 94,000 barrels of oil per day.





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Unique design features stage-to-stage locking mechanism to eliminate pump failures.

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