# Octolock<sup>™</sup> Diffuser Stage-to-Stage Locking Mechanism

FOR IMPROVED PUMP RELIABILITY AND FAILURE PREVENTION

### **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**

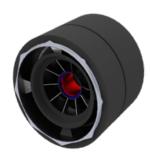
The Octolock design prevents diffuser rotation, thus extending pump run life and reducing non-productive time (NPT). This Octolock diffuser stage-to-stage locking mechanism – which is available with Halliburton Summit ESP pump series 675, 875, and 950 – can handle flow rates of 2,000 to 94,000 barrels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

## FEATURES

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

# BENEFITS

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



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







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

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