

# Tolteq Integrated SureMate Centralizer

The Tolteq™ integrated SureMate centralizer builds upon the success of the original SureMate centralizer by adding an innovative uphole end, allowing it to become an extension of the tool. As the integrated SureMate centralizer only connects on one end, the technology reduces the chance of failure in the toolstring at typically critical connection points. Simple installation and compatibility with various MWD tools further adds value, ensuring the centralizer's flexibility.

## Features and Benefits

- Only one end connects; the other end becomes part of the tool
- Integrated design only requires one screw-on connection
- Keyed downhole end ensures a secure foolproof connection without the danger of broken pins
- Attaches in about 30 seconds with a simple spanner wrench
- Spring-loaded shaft minimizes equipment damage and absorbs vibration while downhole
- Legacy compatible to work with non-Tolteq tools
- Shorter length makes it more robust while shortening toolstring
- Quality wiring inside, with strain relief on connectors and high-temperature mesh covering for wires

## General Specifications

Diameter (without fins).....	1.875 in. (48 mm)
Diameter (with fins).....	4 in. (102 mm)
Length (unconnected).....	18.23 in. (463 mm)
Operating temperature.....	32 to 347°F (0 to 175°C)
Survival temperature.....	-40 to 365°F (-40 to 185°C)
Vibration, random.....	20 g RMS, 15 to 500 Hz
Shock.....	1,000 g, 0.5 mSec half-sine

