

# EXPAND-O-LIZER® SUB

Inline Bow Spring Centralizer



## Product

Varel Energy Solutions Expand-O-Lizer SUB is an inline centralizer sub for under-reamed tight tolerance applications. These subs are designed and manufactured specifically to the client's requirements to ensure the best possible solution, minimizing surge and drag while maximizing standoff.

## Features

- One-piece machined sub, spring steel design.
- Fully rotatable.
- Radius blade edges – casing friendly drag reducing shape.
- Bi-directional and in-line design.

## Options

- Centralizer placement / T&D analysis available.
- Dedicated engineering support team.
- Product design to meet specific application requirements.
- New sizes design and tested within two weeks.
- Size range from 2-7/8" – 20".