

# VALOR 1 SUB™

## Inline Bow Spring Centralizer



### Product

Varel Energy Solutions VALOR 1 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 inch to 20 inch