



**Downhole Products**  
A Varel International Energy Services Company

## **EXPAND-O-LIZER™ Sub**

Expandable centralizer sub designed for extreme tight clearance & under-reamed applications.

The Downhole Products EXPAND-O-LIZER™ SUB compresses through extremely tight clearance casing/liner strings and will expand out into the under-reamed open hole section maintaining its original OD to maximise stand-off. Combine this with optimum flow-by area and low drag conditions in the open hole section, Downhole Products EXPAND-O-LIZER™ is the engineered solution for a complete slimhole/under-reamed casing operation, leaving the operator safe in the knowledge that a successful cement job is in place.



**One piece wrap around spring steel centralizer cage**

**Integral Design**

Blades not welded, providing strength & reliability

**Fully Rotatable**

Free rotating centralizer providing rotational capability

**Ultimate slimhole design**

Fully collapsible centralizer cage to near sub O.D.

**Surpasses API 10 D II**

**Bi Directional Design**

Potential to pull out of well bore should liner/casing run become troublesome

**One-piece machined sub**

As per casing/liner specification

**In-line Design**

I.D. will match drift /Burst & Collapse will exceed pipe specification

**Low Insertion Force**

Minimize starting drag

**Low Running Force**

Minimize running drag

**High Restoring Force**

Optimize Stand-off in Under-reamed open hole

**For Further Information please contact:**

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