SLIDER Centraliser Range with Gauge Protection System

(Patent Pending)

Products:
ScreenSLIDER™ Centraliser c/w GPS
PackerPROTECTOR™ Centraliser c/w GPS
Cemented LinerSLIDER™ Centraliser c/w GPS
Cemented CasingSLIDER™ Centraliser c/w GPS
SelfALIGNING™ Stop Collar

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SLIDER Centraliser Range with Gauge Protection System

(Patent Pending)

• A range of centraliser designs suited to various specific applications, rather than one style fits all.

• Manufactured from high quality cast grade resin polymer with superior properties to moulded thermoplastic or extruded grades of polymer.

• Superb HSE properties due to nature of the material compared to metals especially.
• Why Polymer Resin material? Low Friction, Robust, Chemically Inert, Thermally non-conductive, light-weight, environmentally friendly manufacturing process, proven in oil and gas industry down-hole and many other industrial uses, drillable.

• Why different styles of centraliser? Because one type does not fit all applications.

• Why use cast material and finish by machining? Can do small and big batch’s, can be quite bespoke, can do small and large sizes of centralisers in all styles, multiple manufacturing locations possible.
What is the Gauge Protection System (GPS)?

Special mild steel pins are inserted into the centre of each blade of the centraliser to protect the OD and ID from excessive wear, a common problem with other non-metallic centralisers, without significantly affecting the low friction surface contact area.

(Patent Pending)
Product:

ScreenSLIDER™ Centraliser c/w GPS

The ScreenSLIDER™ is specifically designed for deploying standalone sand control screens in high angle, long step-out, and horizontal, ERD or other demanding wells to provide superior protection, improved centralisation and reduced drag.
Applications:

- Installation of standalone sand control screens in simple as well as complex wells

Features/Benefits:

- High surface contact area Straight Tri-Blade Design
- Superior low friction cast grade material compared to moulded Thermoplastic
- Unique Gauge Protection System to assure effectiveness
- Light-weight material good for HSE
Product:

PackerPROTECTOR™ Centraliser c/w GPS

The PackerPROTECTOR™ is specifically designed for protecting cased-hole and open-hole packers being installed on casing, liners or sand control screens in high angle, long step-out, horizontal, ERD or other demanding wells to provide superior protection, improved centralisation and reduced drag.
Applications:

• Protecting packers on casing, liners or sand control screens in simple as well as complex wells

Features/Benefits:

• Superior low friction cast grade material compared to moulded Thermoplastic

• Straight Tri-Blade design improves surface area contact for reduced drag

• Unique Gauge Protection System to assure effectiveness

• Tighter tolerance on ID to improve packer protection and reduce pipe de-centralisation
Product:

PackerPROTECTOR™ Centraliser c/w GPS

(just because the centraliser OD is bigger than the packer OD does not mean the packer is protected!)

Loose fit centralisers
packer de-centralised
and poorly protected

Tight fit centralisers
packer more
centralised and better
protected
Product:
Cemented LinerSLIDER™ Centraliser c/w GPS

The LinerSLIDER™ is specifically designed for deploying, rotating and cementing liners in high angle, long step-out, horizontal, ERD or other demanding wells to provide improved centralisation, reduced drag and torque and high quality cementation.
Applications:

- Liner installation and cementation in simple as well as complex wells

Features/Benefits:

- Generous by-pass area
- Superior low friction cast grade material compared to moulded Thermoplastic
- 30 degree Spiral Quad-Blade design
- Unique Gauge Protection System to assure effectiveness
- Light-weight material good for HSE
Product:
Cemented CasingSLIDER™ Centraliser c/w GPS

The CasingSLIDER™ is specifically designed for deploying and cementing casings in high angle, long step-out, horizontal, ERD or other demanding wells to provide reduced drag, improved centralisation and high quality cementation.
Applications:

• Casing installation and cementation in simple as well as complex wells

Features/Benefits:

• Generous by-pass area

• Superior low friction cast grade material compared to moulded Thermoplastic

• 30 degree Spiral Sextuple-Blade design

• Unique Gauge Protection System to assure effectiveness

• Light-weight material good for HSE
SUDELAC GREEN

SUDELAC GREEN is an advanced engineered polymer resin material which contains a blended lubricant system built into the material during the manufacturing process. This makes the material act as a bearing with 5 times the life span of standard Nylon and 25 times greater than phosphor bronze. The material has improved rates of wear, reduced coefficient of friction, better sliding frictional properties, abrasion resistance and stick slip reduction. The material is strong, has high impact resistance is easy to handle due to its low density, and very safe to use. SUDELAC GREEN is highly chemically resistant; stable at high and low temperatures, and electrically and thermally non-conductive providing it with versatility of use. In short SUDELAC GREEN is an ideal material for use in oil and gas well conditions as a centralizer.

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Notes</th>
<th>Metric Units</th>
<th>Imperial Units</th>
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*Operating conditions must be evaluated in advance.
Products:

SelfALIGNING™ Stop Collar

The SelfALIGNING™ Stop Collar is specifically designed for securely positioning centralisers on casings, liners or sand control screens particularly in demanding wells.
For more information contact info@sudelac.com or go to www.sudelac.com