

LRP HIGH STRENGTH

Long reach liner packer high strength



Rated up to 2100psi
[14.5 MPa @ 301degC]



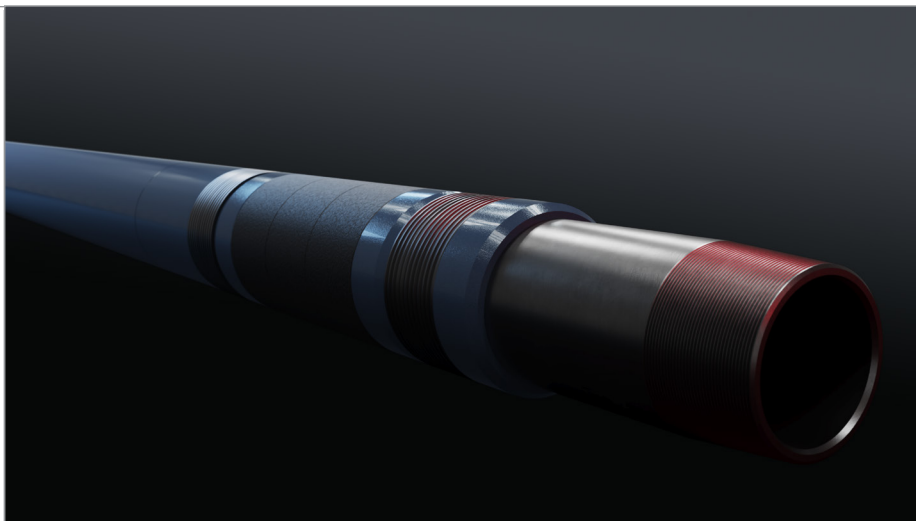
Rated to 575 degF
[301degC]

APPLICATIONS

- Thermal applications where liner is not required to be anchored
- Thermal Isolation where expansion is expected
- Tight radius horizontal wells

FEATURES & BENEFITS

- Rated at 575degF and 2100 PSI
- Mechanical secondary release
- High tension and torque rating
- Robust track record with over 1800 installs
- Integrated Tieback
- Can release from LRP High Strength without setting element
- Reconnect to the LRP High Strength and continue with operations
- No risk of draining tubing due to over pressurizing the work string



The Long Reach High Strength liner Packer (LRP High Strength) is an integral liner top seal packer that facilitates successful liner deployment in long-reach horizontal wellbores in high-temperature environments. The high tension and torque rating of the LRP High Strength allows for increased options to manipulate the liner in tight spots or if stuck.

LRP High Strength is deployed using the CRT running tool. The clutch and premium tool joint connections permit high-torque rotating and drilldown capabilities throughout the liner system. The CRT also has a backup mechanical-release mechanism to ensure its release from the liner. The setting tool allows to release from the LRP High Strength without setting the element and to reconnect.

A further benefit of the LRP High Strength system and the CRT running tool is the ability to pressure past the tubing drain triggering pressure as the tubing will not drain until the running tool is released and work string is picked up.

LRP HIGH STRENGTH SPECIFICATIONS

Liner Hangar Size		Casing	Liner			
Liner x Casing in [mm]		Casing Size in [mm]	Weight lb/ft [kg/m]	Size in [mm]	Weight lb/ft [kg/m]	Max OD in [mm]
7.000 x 9.625 [177.8 x 244.5]		9.625 [244.5]	40.00 – 47.00 [59.60 - 70.03]	7.000 [177.8]	23.00 [34.27]	8.375 [212.73]



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DETAILED ENGINEERING SPECIFICATIONS

Active Flow Wetted Material	4130/4140 (880 ksi), 10XX (40ki)
Approximate weight	300 lb (136 kg)
Casing Size	9-5/8 in (244.5 mm)
Casing Weight Range	40 - 47 lb/ft (59.5 - 69.9 kg/m)
Differential Pressure Rating	2000 psi (13.7 MPa)
External Working Pressure (Exclusive of End Connections)	2100 psi @ 575°F 14.5 MPa @ 301°C
I.D. Drift	6.241 in (158.52 mm)
I.D. Min	6.250 in (158.75 mm)
Internal Working Pressure (Exclusive of End Connections)	2600 psi @ 575°F (17.9 MPa @ 301°C)
Lower Thread	7 (23 lb/ft) Blank (Customer Specified)
Material / Elastomers	Aflas
Material / Element	Aflas, Teflon, Carbon Fiber, 316SS
Material / Non-Flow Wetted	Alloy Steel, Carbon Steel, Bronze Alloy 675, 4130/4140, 302/304SS
Max. Working Temperature	575°F (301°C)
Min. Working Temperature	75°F (24°C)
O.D. Max	8.375 in (212.73 mm)
Overall Length	77.5 in (1969 mm)
Quality Control Plan - QCP	STD SLB
Service NACE	Yes
Setting Force	55000 lbf (24500 daN)
Setting Method	Service Tool
Tensile Strength (Exclusive of End Connections)	450000 lbf @ 150°F (200100 daN @ 65°C)
Upper Thread ¹	7.75 – 4 Stub Acme 2G, Left Hand

Note 1: The service temperature of the element is up to 575°F at saturated steam pressures. The pressure seals between the mandrel and the polished bore receptacle are suitable up to 450°F, but debris is still controlled above that temperature.



STEELHAUS

