

Sure Seal Thermal Liner Hanger Patch

Liner Hangers & Accessories

The Sure Seal Thermal Liner Hanger Patch is a mid-range hanger system capable of carrying 15,000 kg liner weight. It is economical and fast to operate with maximum fluid by-pass. The patch system uses standard casing or tubing for spacer pipe between ends and can be run with or without top hold-downs and slips. The SS Thermal Liner Hanger can be used in conjunction with the Thermal Sure Seal Thermal Adapter as an economical isolation tool for a casing patch.

Features

- One-piece mandrel with ratchet under cone
- Open J
- Large clearance for sand and debris
- High temp thermal pack-off element
- Can be run with inner circulating string
- Extremely economical to service
- Retrievable and economically reusable
- High temperature rating of 370°C

Sure Seal Thermal Adaptor

The SS Thermal Adapter is designed as an economical liner pack-off system that can be run as a top pack-off or bottom pack-off system. It can be hydraulically or mechanically set. A dual ratchet system is used to ensure reliable pack-off.

Features

- Can be run as an upper or lower seal adapter
- Mechanical or hydraulic set and mechanical release
- Easily retrieved
- Rated for 21,000 kPa differential pressures
- High temperature elements up to 370°C available upon request
- Patch assemblies are redressable and reusable
- Dual ratchet locking pack-off systems
- Extremely economical
- Set using the HD Hydraulic Setting Tool with the Casing Patch Hydraulic Shear System



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Grade of Material		Ratings	
Mandrels	K55	Collapse Pressure	21,510 kPa
Setting Sleeve	L80	Internal Yield Burst Pressure	29,440 kPa
Setting Cone	4140 HT	Body Yield Strength	98,750 daN
Ratchet	4140 HT	Joint Yield Strength	84,700 daN
		Max Cone Load	15,000 daN

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Patch	Casing		Specifications	
Size	Size	Weight Range	Body O.D.	Max. I.D.
in	in	lb/ft	in	in
mm	mm	kg/m	mm	mm
2-7/8	4-1/2	9.5 – 13.5	2.50	2.438
73.0	114.3	14.1 – 20.1	63.50	62.0
3-1/2	5-1/2	13.0 – 15.5	3.50	2.991
		19.3 – 23.1		
88.9	139.7	15.5 – 20.0	88.9	76.0
		23.1 – 29.8		
5-1/2	7	17 – 20	6.27	5.012
		25.3 – 29.8	159.3	
	177.8	20 – 26	6.08	
		29.8 – 38.7	154.4	
139.7	8-5/8	20 – 26	7.78	127.3
			197.6	
	219.1	29.8 – 41.6	7.53	
			191.3	
7	9-5/8	29.3 – 36	8.59	6.441
		43.6 – 53.5	212.2	
177.8	244.5	40 – 47	8.44	164.0
		59.5 – 69.9	214.1	
8-5/8	10-3/4	32.75 – 51	9.63	8.016
219.1	273.1	48.7 – 75.8	244.6	203.6