

InflataLOK™

Nippleless Insert PCP Seal/Anchor



InflataLOK™:

InflataLOK™ is the world's first inflatable packer based, nipple-less, Insert PCP (I-PCP) anchor system. The system seals and anchors an insert progressive cavity pump using inflatable packer technology in conjunction with a hydraulically-actuated anchoring slip mechanism. It is designed for rigless deployment requiring only hydraulic pressure to set an I-PCP at any depth within the production tubing.

Being activated by hydraulic pressure only, it is particularly suited for use in extended-reach, deviated applications where sucker rods cannot provide the required axial loads to set a J-slot anchor mechanism. It has also been proven in offshore barge operations whereby the heave of vessel, can make it very challenging to run and set a J-slot anchor.

Once the packers have been set and prior to opening the intake assembly, the positive seal provided, enables tubing integrity confirmation prior to completing the setting operation.

With up to 16,000lb shear release the anchor provides a high level of robustness against unseating for flushby operations in high solid environments. This facilitates more successful routine flushby operations to clear the pump and intake, to avoid 'silting' up the pump or unnecessary wear. The shearable intake sub enables the setting sequence while maximizing flow-through capability after it is set. Additionally, if required, there is also the option to extend the intake assembly using a perforated, slotted or screened tail pipe, to further improve pump life.

Applications:

- ◆ Rig-less Insert PCP installation without the need for pump seat nipple (PSN)
- ◆ Onshore and Offshore

Benefits:

- ◆ No requirement for PSN (pump seat nipple)
- ◆ Sets with hydraulic pressure only - No rotation, weight or tension required
- ◆ Packers, slips and intake assembly all shear pinned to prevent premature activation
- ◆ Provides axial and torque anchoring
- ◆ Mounts below Insert PCP and provides a non-tortuous path for the intake fluid
- ◆ Utilizes two inflatable packer elements for higher security sealing and anchoring
- ◆ Full OD retraction after packer deflation for safe retrieval through nipple restrictions
- ◆ Over pull release mechanism - Adjustable release load, allowing ease of flush-by operations without risk of un-setting or releasing
- ◆ Confirms tubing integrity before completing setting sequence
- ◆ Suits all known oilfield insert PCP's



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Configurations:



Tool Size*	2 7/8" InflataLOK™ (suits 2 7/8" I-PCP)		3 1/2" InflataLOK™ (suits 3 1/2" I-PCP)		4 1/2" InflataLOK™ (suits 4 1/2" I-PCP)	
Maximum Tool OD**	2.283"	58 mm	2.756"	70 mm	3.5"	89 mm
Minimum Tubing Size	2 7/8" x 7.70 ppf		3 1/2" x 10.20 ppf		4 1/2" x 12.60 ppf	
Assembly Length	134.3"	3,410 mm	132.8"	3,373 mm	139.5"	3,545 mm
Thread Connection	1.660" EUE		1.900" EUE		2.375" EUE or as requested	
Maximum Torque	693 ft lb	940 Nm	877 ft lb	1,190 Nm	2000 ft lb	2,711 Nm
Minimum Flow ID	0.984"	25 mm	1.378"	35 mm	1.87"	47.50 mm
Maximum Setting Diameter	2.559"	65 mm	3.150"	80 mm	3.956"	100.50 mm
Maximum Differential Pressure	3,000 psi	21 MPa	3,000 psi	21 MPa	3,000 psi	21 MPa
Setting Pressure (Inflation/Locking)	1,500 - 2,200 psi	10 - 15 MPa	1,500 - 2,200 psi	10 - 15 MPa	1,500 - 2,200 psi	10 - 15 MPa
Maximum Shear Release (Overpull)	14,000 lb	6,350 kg	16,000 lb	7,400 kg	15,432 lb	7,000 kg
Working Temperature Rating***	248°F	120°C	248°F	120°C	248°F	120°C

* Other sizes available upon request
 ** Maximum tool OD may vary in regards to the Cup Seal size
 *** Higher temperature ratings are available upon request

