



Inflatable Packers

Thru-Tubing Inflatable System

HPOGC Oil Tools Inc. has introduced as a thru-tubing inflatable packer to overcome Diameter restriction challenges via rigless operations nor killing the wells refraining the exposure of the pay zone to killing fluids. The tool can be run and set using a standard coiled tubing system. No rotation is required. It can be set using pressure or retrieve by axial movement.

The tool is made from Nitrile based rubbers with steel ribs reinforcements and can be expanded up to 250% of the original size.

Inflatable packer types

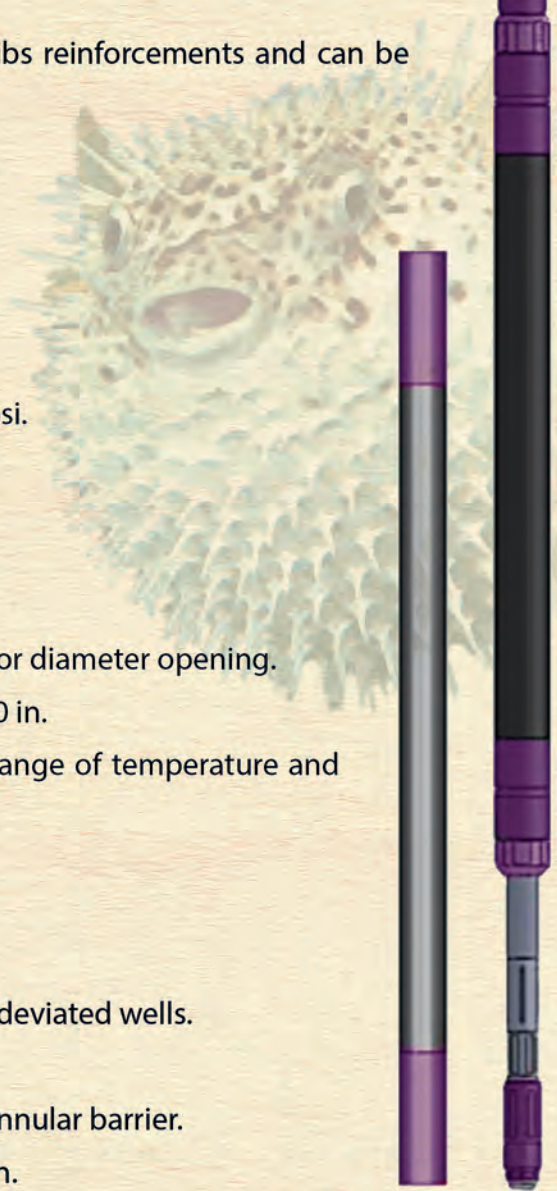
- SD Inflatable Packers
Economic, Differential pressure less than 500 psi.
- LI Inflatable Packers
Easily repeatable, Differential pressure less than 1000 psi.
- HD Inflatable Packers
Easily repeatable, Differential pressure up to 5000 psi.

Features

- Minimal outside diameter combined with a large interior diameter opening.
- Available for borehole sizes ranging from 1-1/2 up to 30 in.
- Can be run in depths up to 25,000 feet and a wide range of temperature and differential pressures.
- Retrievable system for temporary solutions.

Benefits

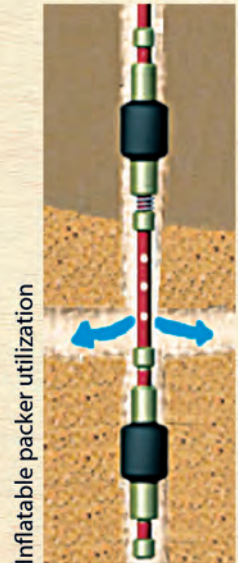
- Long and flexible element length runs through highly deviated wells.
- Discontinuous design provides openhole isolation.
- Cement inflation provides high-pressure, permanent annular barrier.
- Larger inflation volumes assist in installation evaluation.





Applications

- Prevents gas migration.
- Reduces or prevents water production.
- To isolate production or injection zones.
- To squeeze cement.
- To isolate lower zones during stage cementing.
- Shut off openhole sections.
- Mechanical integrity testing.
- Obtain sample packer overhead and between packers.
- Well sampling from beneath packer.
- Reline deteriorated casing or seal casing in open hole.



Inflatable Element Dimensional Specification

Element OD (in)	Element Length (ft)	Tool Length (ft)
1.69	4	7
2.13	4	7
2.5	4	7
3	4	7
3.5	4	7

Inflatable Element Pressure Specification

Tubing/Casing OD (in)	2.375	2.875	3.5	4	4.5	5	5.5	6.625	7	7.625	8.625	9.625
Tubing/Casing ID (in)	1.195	2.441	2.992	3.548	3.958	4.276	4.892	5.921	6.094	6.765	7.511	8.681
Element OD (in)	Differential Pressure (Psi)											
1.69	4,000	3,500	3,000	2,200	1,700	1,500	1,200					
2.13		4,000	4,000	3,500	3,000	2,500	2,000	1,600	1,200			
2.5			4,000	4,000	3,500	3,500	3,000	2,200	1,700	1,200		
3				4,000	4,000	3,500	3,500	3,000	3,000	2,500	2,200	
3.5				5,000	5,000	4,500	4,000	3,500	3,000	2,500	2,200	1,700

