

Inflatable ESP Packer System (I-ESP)

Inflatable Technology:

An inflatable element is a hydro-mechanical sealing device to be conveyed into a wellbore on a wide range of tool chassis. IPI's unique design of composite element allows the versatility to set in an ID significantly larger (+/- 300%) than its run in OD and where applicable be released and retrieved. The IPI design offers a true wellbore seal in both directions and has proven itself in over 13,000 applications to be the most robust inflatable element while offering the industry's best in class recoverability. Open hole, through tubing, cased hole, oval pipe, scale, perforated, nonstandard etc. conditions make IPI inflatable elements your path to success.

I-ESP:

The Inflatable Electrical Submersible Pump (ESP) Packer System (I-ESP) provides the means of suspending ESP pumps using an inflatable packer. The I-ESP has multiple feedthroughs to accommodate pump control and vent lines. Inflation and deflation are achieved through separate control lines from the surface. The I-ESP packer offers a solution for selective zone production, effectively isolating zones of interest from the shallower zones. The inflatable packer also acts as an effective torque arrestor, stabilizing and protecting the ESP.

Applications:

- ◆ ESP Completions
- ◆ Multi-zone production
- ◆ Intelligent completions with feed-thru requirements

Benefits:

- ◆ Acting as a torque arrestor, the inflatable packer stabilizes the ESP, **protecting it from damage caused by vibration, extending the pump's lifespan**
- ◆ Accurate inflation pressure control **minimizes the risk of casing damage**, ensuring efficient and safe operation in wells with fiberglass-lined or fiberglass casing
- ◆ Suitable for wells with severe doglegs and can be installed in non-API casings, making the ESP **adaptable to non-standard and/or complex well geometries**
- ◆ The I-ESP can be configured with tubing for isolation between multiple production zones or run in on a hanger tube by crane, enabling **rig-less deployment and retrieval of ESPs**
- ◆ This system eliminates the need for separate production tubing during ESP installation. **This reduces the head loss, providing better efficiency and higher flow options**
- ◆ When used without production tubing, the hanger tube can be connected to the void below which enables **draw down measurements to be made within the hanger tube**
- ◆ Injection and sensor line provisions can be added through the I-ESP chassis

