

Production Injection Packer (PIP)



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.

PIP:

The PIP provides a reliable and effective gas tight seal for zonal isolation. When used in production strings, it seals and separates the zones in the well bore. The IPI PIP offers up to three times expansion with the ability to be installed through restrictions, into odd sized casing or open hole environments, including those with collapsed casing.

Applications:

- ◆ Zonal Isolation
- ◆ Water Shut-off
- ◆ Treatment and Stimulations

Benefits:

- ◆ Robust design to better **withstand adverse running conditions**, setting in less-than-ideal locations such as across perforations
- ◆ Equivalent ID to your production string
- ◆ **Minimizes field inventory and logistics** as one size covers multiple casing / open hole sizes
- ◆ High expansion element allows for **setting through / below restrictions**
- ◆ Full cover elastomeric sealing element allowing **bi-directional pressure integrity**
- ◆ DuraGRIP™ technology provides **cased hole anchoring with no slip point-loading**
- ◆ Element design facilitates **sealing in irregular IDs** where traditional mechanical packing elements don't (scale, perforations, oval pipe, slotted liner, open hole etc.)
- ◆ Field Proven inflation valve designed for **simple pin reconfiguration**

Available Sizes*:

Inflation Valve OD		Packer OD		Equivalent TBG Diameter - OD (ID)	Minimum ID Through the Tool		Maximum Tensile Strength**	
in	mm	in	mm	in	in	mm	Kips	kN
3.5	89	3.5	89	2.375	2	50.8	33	146.8
		4	102					
		4.5	114					
		5.0	127					
4.5	114	4.5	114	3.5	3	76.2	173	773
		5.0	127					
		5.5	140					
		7	178					
5.5	140	5.5	140	4.5	4	101.6	134	597
		7	178					
		7.5	197					
		8	203					

* PIP is available with different grades of tubing

** Safety factor of 1.6 has been considered for tensile limit calculations



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Differential Pressure Rating vs. Hole Size:

