

Permanent Inflatable Bridge Plug (PIBP)



IPI Inflatable Element Technology:

IPI's inflatable element is a highly versatile hydro-mechanical sealing device, engineered for deployment into the wellbore on a wide range of tool chassis. Unique in its design, the IPI element can be set in internal diameters (ID) up to 300% larger than its run-in outside diameter (OD)* — and where required, can also be released and retrieved. This dual-direction sealing capability ensures true wellbore isolation, even in the most challenging environments.

Proven in thousands of operations worldwide, the IPI inflatable element is recognized as the industry's most robust and reliable inflatable sealing solution, offering best-in-class recoverability. It excels in both cased and open hole applications, and performs effectively in irregular wellbore conditions including ovality, scale, perforations, and non-standard geometries — delivering ultimate operational flexibility from a single solution.

PIBP:

The IPI Permanent Inflatable Bridge Plug (PIBP) harnesses the advantages of IPI's proprietary inflatable technology to deliver permanent, reliable wellbore isolation in both cased and open hole environments.

While designed as a permanent solution, the PIBP includes a contingency deflation option prior to final disconnection, offering added operational assurance in dynamic well conditions. Built around a robust, fit-for-purpose chassis, the PIBP is fully compatible with drill pipe, tubing, and coiled tubing conveyance. It also offers configuration flexibility as a cement retainer, making it a comprehensive tool for permanent isolation needs.

Applications:

- ◆ Plug and Abandonment (P&A)
- ◆ Lower zone shut-off
- ◆ Water shutoff
- ◆ Cement/alloy plug base

Benefits:

- ◆ Double barrier valving system to provide **hydraulic integrity**
- ◆ **High expansion capability** allows for setting below restrictions
- ◆ One size can be used in multiple setting IDs, minimizing site inventory or tool swap out
- ◆ Full cover elastomeric sealing element allowing **bi-directional pressure integrity**
- ◆ Design negates plastic deformation enabling industry-leading element retraction
- ◆ Element design facilitates sealing in **irregular IDs** where traditional mechanical packing elements don't (scale, perforations, oval pipe, slotted liner, open hole etc.)

*Performance capabilities vary depending on specific element design and hole conditions for setting below restrictions



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PIBP Modular Configurations:



Cement Retainer



Bridge Plug



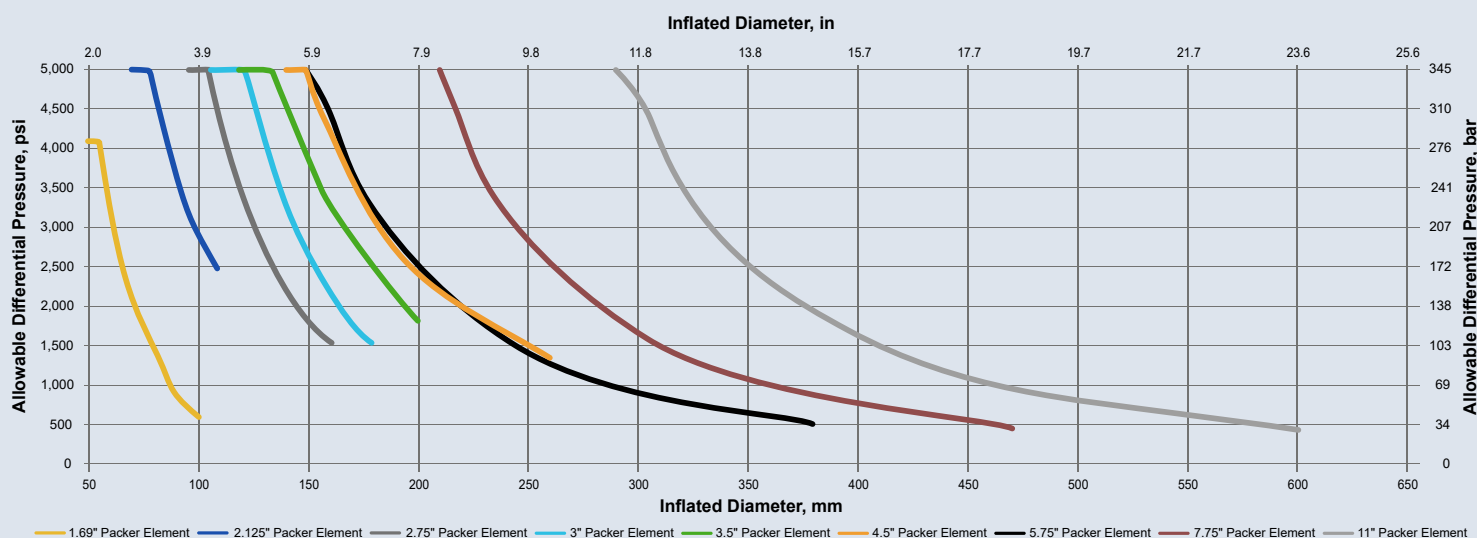
**Bridge Plug
w/ Deflate Option**

Available Sizes:

Inflation Valve OD		Packer OD*		Max Inflation Diameter	
in	mm	in	mm	in	mm
3.5	89	3.5	89	8.67	220
		4.5	114	11.0	280
		5.0	127	12.2	310
5.5	142	5.5	140	13.8	350
		6.3	160	15.0	400
		7.75	197	18.5	470
7.75	196	9.0	230	22.6	575
		11.0	280	22.8	580
		15.5	395	33.1	840

* different packer sizes are available upon custom request

Differential Pressure Rating vs. Hole Size:



** please contact IPI Packers for the latest pressure chart and custom sizes

