

Inflatable Casing Packer Kit (ICP Kit)



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. Ability to set in open hole, through tubing, cased hole, oval pipe, perforated, nonstandard etc. conditions makes IPI inflatable elements your path to success.

ICP Kit:

IPI's Inflatable Casing Packer (ICP Kit) is a versatile annular isolation system designed for cost efficiency and ease of transportation. Shipped as a disassembled kit without a casing mandrel, the ICP Kit significantly reduces weight and shipping costs. Customers can assemble the kit on a casing mandrel of their choice at their facility, maintaining control over light machining, assembly, and testing processes, reducing overall expenses. The kit features a Locking Inflation Valve, offering clear functional indications, a controlled inflation sequence, and a secure locking mechanism to prevent re-pressurization of the packer element after inflation. Additionally, the ICP employs IPI's advanced contrawound high-tensile steel wire-reinforced element. It delivers reliable sealing in both standard gauge holes and irregularly shaped holes, with an expansion range of up to $\pm 300\%$ of its original run-in diameter.

Applications:

- ◆ Multi-Stage Cementing
- ◆ Base for Cementing
- ◆ Prevention of Annular Gas/Water/Oil Migration
- ◆ Off-Bottom Cementing
- ◆ Zonal Isolation
- ◆ Scab Liners

Benefits:

- ◆ Reduce the risks to your operations by ensuring a 100% full function test to the required expansion prior to dispatch/installation. This is made possible by the contrawound design element that has excellent recovery.
- ◆ Increase your local content component by sourcing and machining the casing locally as well as doing the final assembly and testing locally
- ◆ Major components are shipped as a kit and fit into the customer's casing program (free issue casing)
- ◆ Customer controls casing vendor, light machining of the mandrel, assembly, and testing
- ◆ Smaller inventory footprint (not storing 10' & 20' casing mandrels on hand) - reducing shipping costs
- ◆ Built to order
- ◆ Available in all API casing sizes 2- $\frac{3}{8}$ " – 20". Other sizes are available upon request.
- ◆ IPI's proven ICP Locking Inflation Valve – Easy access for re-pinning in the field
- ◆ IPI's proven high performance and high expansion inflation element
- ◆ DuraGRIP™ technology provides anchoring in cased holes with no slip-point loading
- ◆ Full cover elastomeric sealing allowing bi-directional pressure integrity
- ◆ No-weld element design
- ◆ Epoxy-Free Valve Collars for casing equivalent re-pressure limits
- ◆ Contrawound high-tensile steel wire-reinforced element technology eliminates packer components such as non-reinforced bladders, stainless steel slats, and exposed reinforcement layers
- ◆ Available in NR, NBR, and HNBR Rubber types
- ◆ 4,000psi Rated
- ◆ 300°F Operating Temperature

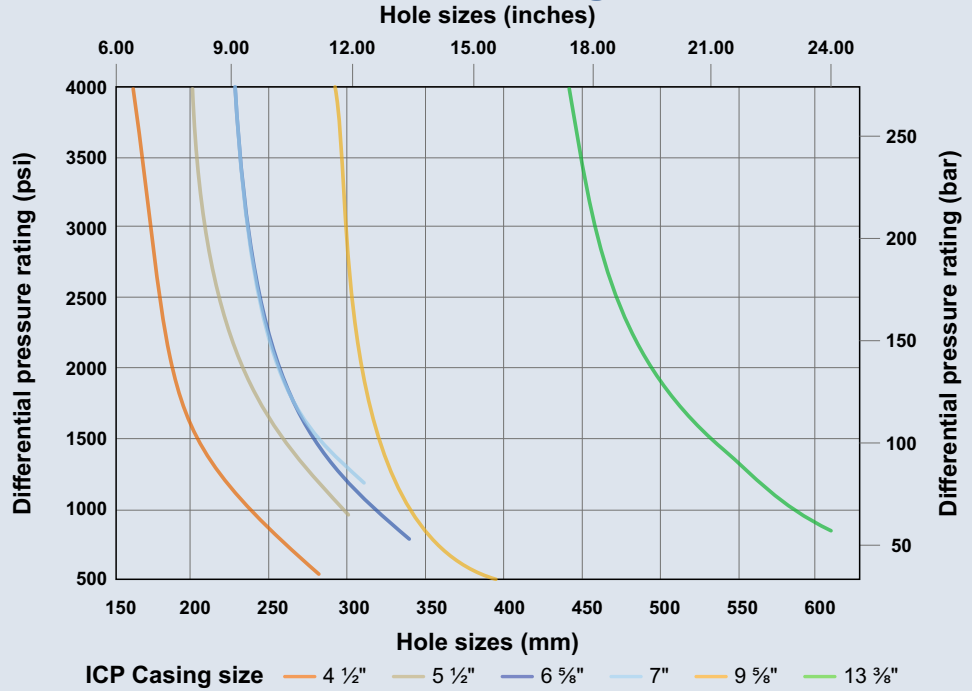


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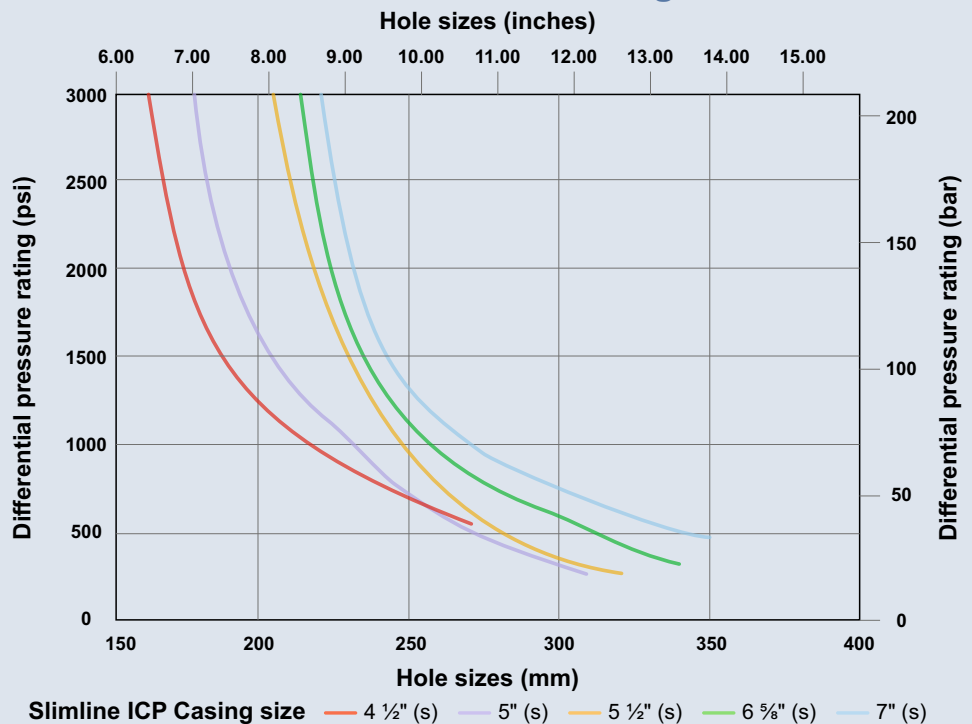
Available Sizes:

Casing OD		ICP Packer OD	
Inches	mm	Inches	mm
2 3/8	60	3 1/2	89
2 7/8	73	4.00	102
3 1/2	89	4 5/8	116
4.00	102	5 1/4	133
4 1/2	114	5 3/4	146
4 1/2 (s)**	114	5.59	142
5.00	127	6 3/8	162
5.00 (s)**	127	6.10	155
5 1/2	140	7.00	178
5 1/2 (s)**	140	6.69	170
6 5/8	168	8.00	203
6 5/8 (s)**	168	7.72	196
7.00	178	8 1/4	210
7.00 (s)**	178	8.07	205
7 5/8	194	9.00	229
8 5/8	219	10 1/4	260
9 5/8	244	11 1/4	286
10 3/4	273	12 3/4	324
11 3/4	298	13 3/4	349
13 3/8	340	15 3/4	400
16.00	406	18 3/4	476
18 5/8	473	20 5/8	524
20.00	508	23.00	584

Differential Pressure Rating vs. Hole Size:



Slimlin Differential Pressure Rating vs. Hole Size:



* Other sizes and lengths available on request
 ** (s) - Slimline Design

