



Injection Production Packer (IPP™)

Multiset Rotation Release

Weatherford's multiset rotation-release injection production packer (*IPP*) is a downhole service packer that offers field-proven, reliable, and extremely versatile performance in a variety of applications. This packer can be inflated, deflated, retrieved multiple times per run, and enable installation in cased or open hole, on a temporary or long-term basis.

With a relatively small OD, the packer can be run through restricted IDs and then set in larger hole sizes. Elastomers are suitable for standard or severe-service applications.

The multiset *IPP* tool runs in the well on threaded pipe (drillpipe or work string) and requires rotation and axial movement to operate. Once in the hole, the packer is inflated with hydraulic pressure. Deflation and retrieval simply require that the work string be rotated five times at the packer, and then pulled up. When the element is completely deflated, the packer can be repositioned and reset, or pulled from the well if the job is complete.

Applications

- Can be used in vertical, high-angle, and horizontal applications
- Provides excellent openhole or cased-hole zonal isolation
- Can function as a permanent or retrievable bridge plug
- Acts as a retainer for squeezing or treating formations below the tool
- Can locate casing or liner leaks
- Is ideal for short-term production tests

Features, Advantages and Benefits

- The packer runs on threaded tubing or drillpipe in either open or cased hole, and is suitable for standard or severe-service conditions, providing a versatile packer with application flexibility.
- Hydraulically activated inflation valve enables inflation of the packer multiple times per trip, helping to save costly rig time.
- The packer requires rotation and straight pull to deflate the element into the tubing, providing easy retrieval.
- Elements come fully reinforced with strip or cable and are readily adaptable to different mandrel sizes, providing extra durability. (For cased-hole anchoring, the strip element can be partially exposed.)





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Features, Advantages and Benefits (continued)

- Packers can be redressed on location for additional runs, resulting in fewer costly delays.
- Relatively small element OD allows passage through restricted ID and inflation in relatively large wellbores, reliably handling difficult downhole conditions.

Specifications

Dimensions and Element Types			
Element OD (in./mm)	Mandrel ID (in./mm)	Element Seal Length (in./mm)	Element Type Cable/Strip
3.50 89	1.25 32	48 1,219	C/S
4.25 108	2.00 51		C/S
4.63 117	2.00 51		C/S
	2.50 64		S
5.00 127	2.00 51		C/S
5.50 140	2.00 51		C/S
	2.50 64		
6.25 159	2.00 51		C
	2.50 64		
6.75 171	2.00 51		C
	2.50 64		
6.88 175	2.00 51		S
	2.50 64		
7.50 190	2.50 64		C/S
7.88 200			C
9.00 229			S
9.25 235			C
10.50 267			S

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Specifications (continued)

Corresponding Chassis and Element Sizes		
IPP Chassis ID (in./mm)	Element Size Minimum (in./mm)	Connections (in.)
1-1/4 31.8	3.50 88.9	2-3/8 × 2-3/8 (EUE box up × EUE pin down)
2 50.8	4.25 and larger 108.0 and larger	2-3/8 × 2-7/8 (EUE box up × EUE pin down)
2-1/2 63.5	4.63 and larger 118.0 and larger	2-7/8 × 3-1/2 (EUE box up × EUE pin down)

Options

- Elements can be constructed with fully covered or partially exposed steel-rib reinforcement (strip) or fully covered cable reinforcement. Strip elements can incorporate an exposed rib section to provide anchoring in the wellbore when required.
- A delayed opening feature, available for some sizes, enables the packer to be run where other hydraulic events occur first.
- Elements are available in a variety of sizes, ranging from 3-1/2 to 10 1/2-in OD and can be changed to fit various hole sizes. (Weatherford also offers elements, ranging from 13-1/4 to 18 5/8 OD for use with the heavy duty single set rotation release version of this packer.
- Weatherford provides a variety of complementary tools for use with this packer such as circulating valves, disconnects with overshoots, and plugs.