

Remedial Cementing Packer (RCP)

The Retrieval Remedial Cementing Packer (RCP) is a field proven innovative inflatable packer system designed for retrievability after remedial cementing. The retrievable RCP features drillable residual components, which makes it the optimal solution for shutting-off lost-circulation zones encountered during drilling operations.

The RCP is conveyed on workstring and allows circulation during deployment. The RCP setting sequence starts by dropping and pressuring up against a phenolic ball. Once the RCP is fully inflated, an over-pressure is applied, shearing out the setting ball and drillable ball seat sleeve, which can be captured in a tailpipe ball catcher. Once the RCP system is fully set, remedial cementing operations can commence.

After the remedial cement is set, the RCP can be deflated by applying over-pull, which shears its release pins to enable RCP packer deflation. Once deflated, further over-pull is required to break any remaining cement bond to the packer assembly. A drillable plastic shroud located at the bottom of the packer element is the contact point between the RCP body and the remedial cement. The RCP packer element plastic shroud is designed to shear off if the RCP is cemented in place, minimizing risk of becoming stuck at setting depth.

Applications

- Shut-off lost-circulation zones without running and cementing casing
- Test, squeeze and treat operations
- Vertical, inclined and horizontal wells
- Workover/Well intervention with a Retrieval Inflatable Bridge Plug (RIBP) as a pair

Features

- Stand-alone retrievable treatment while drilling to eliminate the need for a drillable or permanent system
- Conveyed on workstring
- Allows circulation during deployment
- Optional short fiberglass pipe stinger below the packer as an easily drillable tailpipe
- Optional tailpipe ball catcher
- Optional shearable plastic shroud located at the bottom of the RCP packer element, minimizing the risk of tool becoming stuck at setting depth



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Sequence of Operation



Available Sizes

Inflation Valve OD		Packer OD*		Max Inflation Diameter	
in	mm	in	mm	in	inch
3.5	89	3.5	89	8.67	220
		4.5	114	11.0	280
		5.0	127	12.2	310
		5.5	140	13.8	350
5.5	142	5.5	140	13.8	350
		6.3	160	15.0	400
		7.75	197	19.3	490
7.75	196	9.0	230	22.6	575
		11.0	280	27.6	700
		15.5	395	33.1	840

* different packer sizes are available upon custom request.

Differential Pressure Rating vs. Hole Size

