

On-Off Tool

Release downhole pumps from the rod string in harsh applications

Applications

- Insert pumps
- Tubing pumps
- Long-stroke pumping units

Features and Benefits

- Upgraded alloy improves fatigue resistance.
- Optional disc springs with enhanced unlatching force is available for use with long-stroke pumping units.
- Optional nickel plating offers added corrosion resistance.
- Improved geometry, surface finish, and tolerances in key areas increase run life.
- Nitride housing on the 2.75-in. and 3.25-in. tools offer greater wear resistance.

Tool Description

The Weatherford on-off tool disconnects the rod string from the downhole pump. This tool is used when installing oversized tubing pumps and insert pumps to allow the rod string to be pulled without pulling the pump.

Weatherford on-off tools are engineered and tested for long-lasting performance and fatigue endurance, using industry-leading validation methods.

The tool is latched by setting approximately 3,000 lb (1,361 kg) of rod-string weight on the tool then turning in the opposite direction of release to ensure it is latched. Deeper wells require more turns at the surface to ensure rod-string movement reaches the tool. Pull up to verify fluid weight is captured.

To unlatch the tool, set rod-string weight on the tool and rotate in the direction of release. Deeper wells require more turns at the surface to ensure enough torsion is transmitted to the tool. Lift the rod string to allow the tool to turn and unlatch. For a right-hand tool, turn right to release. For a left-hand tool, turn left to release.

Weatherford offers the on-off tool with various spring configurations, release directions, diameters, thread sizes, and material finishes.



The Weatherford on-off tool disconnects the rod string with extreme reliability and longevity.



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Specifications

Part Number	Outside Diameter	Thread SR	Release Direction	Finish	Spring
73766092LH-FPP	1.625 in.	3/4 in.	Left hand	Phosphate	Coil
73766092RH-FPP	1.625 in.	3/4 in.	Right hand	Phosphate	Coil
7476N102LH-P-D	1.813 in.	3/4 in.	Left hand	Nickel plating	Disc
74766102LH-P-C	1.813 in.	3/4 in.	Left hand	Phosphate	Coil
7476N102RH-P-D	1.813 in.	3/4 in.	Right hand	Nickel plating	Disc
74766102RH-P-C	1.813 in.	3/4 in.	Right hand	Phosphate	Coil
74766103LH-P-C	1.813 in.	7/8 in.	Left hand	Phosphate	Coil
74766103RH-P-C	1.813 in.	7/8 in.	Right hand	Phosphate	Coil
7476N113LH-P-D	2.25 in.	7/8 in.	Left hand	Nickel plating	Disc
7476N113RH-P-D	2.25 in.	7/8 in.	Right hand	Nickel plating	Disc
74766113LH-P-C	2.25 in.	7/8 in.	Left hand	Phosphate	Coil
74766113RH-P-C	2.25 in.	7/8 in.	Right hand	Phosphate	Coil
74766134LH-P-C	2.75 in.	1 in.	Left hand	Nitride	Coil
74766134RH-P-C	2.75 in.	1 in.	Right hand	Nitride	Coil
74766144RH-P-C	3.25 in.	1 in.	Right hand	Nitride	Coil

Competitor Displacement Comparison

