

SPITFire® Release Tool

Reliably releases downhole tools if the toolstring becomes stuck in the wellbore

Applications

- E-line perforating
- Pumpdown perforating

Features and Benefits

- Capable of withstanding 350 runs prior to full redress
- Retrievable head using conventional fishing overshot or internal spear
- Intended for use with jars in high-impact or perforating environments
- Unlimited-release tool positionable anywhere in the toolstring to mitigate risk
- Easy field maintenance, usually in less than 10 minutes
- Compatible with Warrior Well Logging System
- Usable with addressable and percussion switches

Tool Description

The Weatherford SPITFire release tool reliably releases downhole tools if the toolstring becomes stuck in the wellbore. This avoids wire breaks and facilitates efficient and clean retrieval of the toolstring using a conventional fishing overshot.

Running wireline and perforating technologies in horizontal or highly deviated wells presents a greater risk for stuck toolstrings or wire breakage. The SPITFire release tool is a wireline ballistic release technology that provides a reliable option for detaching from the stuck toolstring on command.

Unlike other wireline release technologies—that are less reliable due to weaker, pressure activated release mechanisms that routinely result in unintended releases—the SPITFire tool incorporates a high-strength frangible joint that requires booster detonation and will not release on loss of pressure containment of the toolstring.

The high tensile strength of the SPITFire release tool makes it suitable for use in high-impact perforating environments and allows it to be placed anywhere in the toolstring, even below perforating guns and in conjunction with jars.



SPITFire[®] Release Tool

The SPITFire release tool ensures the cable is retrieved out of the hole each time, mitigating the risk of stuck tools and expensive fishing operations.

Specifications

Mechanical

Outside diameter	2.125 in. (53.98 mm)	2.75 in. (69.85 mm)
Makeup length	29.625 in. (752.48 mm)	32 in. (813 mm)
Weight	22.3 lb (10.12 kg)	38 lb (17 kg)
Upper and lower connections	1 3/16 in. 12 UN (GO A)	1-5/8 in. 6 Acme (GO B)
Fishing method	2.125 in. overshot	2.75 in. overshot

Operational

Pressure rating	25,000 psi (172.4 MPa)	
Temperature rating	350°F (175°C) (explosives limited ¹)	
Tensile strength	50,000 lb (22,679 kg)	100,000 lb (45,359 kg)
Shock rating	5,000 g 3-axis minimum	
Maximum force	5,000 ² lb.ft	7,000 ² lb.ft

¹ Refer to explosives datasheet. Be careful to not exceed 300°F with RDX. HMX boosters are available.

² Measured at center of tool. May vary due to field connections.

Electrical

Pass-through voltage	600 V
Pass-through current	3 A

