## **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 highstrength 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 <sup>1</sup> ) |                        |
| Tensile strength   | 50,000 lb (22,679 kg)                            | 100,000 lb (45,359 kg) |
| Shock rating       | 5,000 g 3-axis minimum                           |                        |
| Maximum force      | 5,000² lb.ft                                     | 7,000² lb.ft           |

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

<sup>2</sup> Measured at center of tool. May vary due to field connections.

#### Electrical

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



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