

## Safety-Impact Firing Device

The Safety-Impact Firing Device requires both impact and hydrostatic pressure to initiate firing which provides maximum safety to personnel and equipment during make-up and retrieval.

These devices provide a safe and reliable drop-bar firing method for both standard and high-pressure applications. The Low-Pressure Safety-Impact Firing Device is used in low to medium hydrostatic conditions, while the High-Pressure Device is used in moderate to extreme hydrostatic pressures. The devices are available for use on guns 2-1/2" diameter and larger. They can be adapted readily with or without an extension mandrel if the length of the bottom-hole assembly/system must be adjusted.

### Features and Benefits:

- Inherently safe at surface
- Simple and reliable; one design for all gun sizes
- Recommended for deviated completions
- Flexible design; either assembly can be converted for low-pressure or high-pressure use

### Specifications:

	Low Pressure	High Pressure
Tubing Thread	2 <sup>3</sup> / <sub>8</sub> " or 2 <sup>7</sup> / <sub>8</sub> " EU 8RD (handling sub)	2 <sup>3</sup> / <sub>8</sub> " or 2 <sup>7</sup> / <sub>8</sub> " EU 8RD (handling sub)
Diameter	Determined by API handling sub	Determined by API handling sub
Working Pressure & Temperature	15,000 psi (103.42 Mpa) at 350°F/175°C	10,000 psi (68.95 Mpa) at 375°F/190°C
Operating Pressure		
Minimum	500 PSI	2,000 PSI
Maximum	8,000 PSI	20,000 PSI
Seal Rating	10,000 PSI standard	10,000 PSI standard 20,000 PSI high-temp
Tensile Strength	Determined by size and grade of API tubing sub (handling sub)	Determined by size and grade of API tubing sub (handling sub)
Temperature Rating	Determined by explosive package (see temperature chart)	Determined by explosive package (see temperature chart)

