

## Auto-Release Firing Device

The Auto-Release Firing Device is used to perforate the wellbore and simultaneously release the guns into the rathole.

Its unique design allows the same apparatus to be used for a wide range of bottom-hole pressures and ensures reliable operation with short gun assemblies. The release mechanism is compatible with most Expro firing devices, including the Pressure-Actuated, Pyrotechnic-Delay, and Safety-Impact Firing systems.

### Features and Benefits:

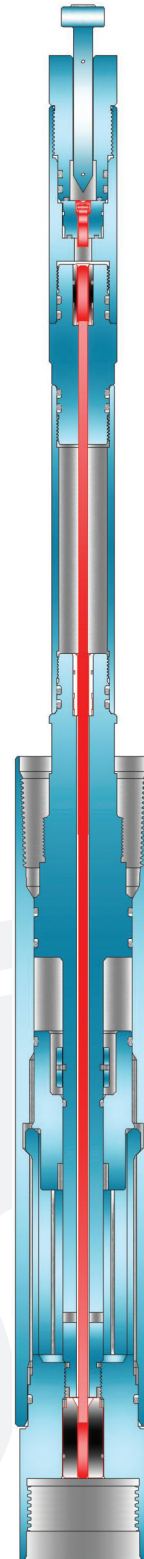
- Versatile design allows use in low or high bottom-hole pressures
- Ideal for overbalanced or underbalanced perforating
- Compatible with a variety of firing devices
- Substantial tensile integrity maintained while release weight requirement is low
- Delay time easily increased in 10-minute increments
- Bar guide/catcher subs are standard for 3<sup>3</sup>/<sub>8</sub>" and 4<sup>1</sup>/<sub>4</sub>" diameter tools; available for 2<sup>7</sup>/<sub>8</sub>" diameter tools on request

### Operation:

After the gun assembly is positioned at depth, the firing device is activated by either dropping a bar or pressurizing the tubing to the required value. Upon detonation, a release mechanism is operated that simultaneously disengages a collet. A unique design feature hydraulically forces the apparatus apart, thereby ensuring reliable release of the perforating assembly.

### Specifications:

	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "
Size	2 <sup>3</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "
Tubing Thread	2 <sup>3</sup> / <sub>8</sub> " EU 8RD box	2 <sup>7</sup> / <sub>8</sub> " EU 8RD box	3 <sup>1</sup> / <sub>2</sub> " EU 8RD box
Length	24" (0.61 m)	24" (0.61 m)	24" (0.61 m)
Outer Diameter	2.92" (74.17 mm)	3.38" (85.7 mm)	4.25" (108 mm)
Guide I.D. after release	2.208" (56.1 mm)	2.445" (62.1 mm)	3.125" (79.38 mm)
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		
Pressure Rating			
Collapse	20,000 PSI	18,000 PSI	15,000 PSI
Differential	10,000 PSI	10,000 PSI	8,000 PSI
Seal Rating	10,000 PSI standard	10,000 PSI standard	10,000 PSI standard
	20,000 PSI high-temp.	20,000 PSI high-temp.	20,000 PSI high-temp.
Operating Pressure			
Minimum	200 PSI	200 PSI	200 PSI
Maximum	20,000 PSI	20,000 PSI	15,000 PSI
Fishing Diameter	2.88" (73.15 mm)	3.125" (79.38 mm)	Gun body (≥ 4.5 in.)
Tensile Rating	75,000 lbs.	110,000 lbs.	100,000 lbs



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