

## Pyrotechnic Delay Firing Device

The 1 11/16" Pyrotechnic Delay Firing Device is designed for use with all Expro gun systems ranging in size from 1 9/16" through 7".

It is used when a specific delay time is required between pressurisation of the tubing and gun detonation. The device is available in 10-, 20-, and 30-minute delay units. It is also available with a 1.315 NU 10 RD Pin Up, making it readily adaptable to coil tubing or snubbing operations.

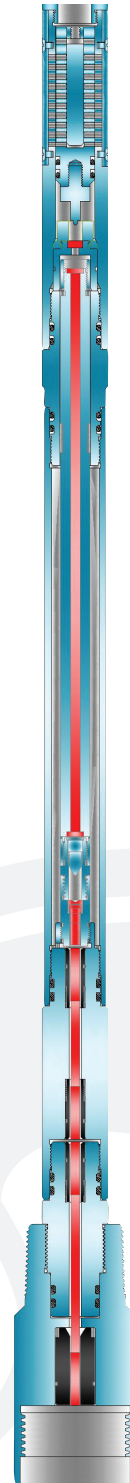
### Features and Benefits:

- Standardised; one simple design for all gun sizes
- Extremely safe
- Ideal for overbalanced or underbalanced perforating
- Well-suited for highly-deviated completions
- Delay time easily increased in 10-minute increments

### Specifications:

Tubing Thread	1.315 NU 10RD API pin up	N/A
Length		
10-min	28.3" (0.72 m)	26.50" (0.67 m)
20-min	43.0" (1.09 m)	41.19" (1.05 m)
30-min	57.7" (1.47 m)	55.88" (1.42 m)
Diameter	1.69" (43 mm)	1.69" (43 mm)
Pressure Rating		
Collapse	20,000 PSI	20,000 PSI
Differential	15,000 PSI	N/A
Seal Rating	10,000 PSI standard	10,000 PSI standard
	20,000 PSI high-temp.	20,000 PSI high-temp.
Tensile Strength	70,000 lbs.*	70,000 lbs.*

\* When used on guns 2 1/2" and larger, the tensile load is carried by the 2 3/8" or 2 7/8" API tubing sub that houses the assembly.



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PyrotechnicDelayFiringDevice  
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