

Pressure-Actuated Firing Device

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

This device is used to perforate the wellbore when no delay time is required between the tubing pressurization and gun detonation. This firing device is also ideal for specialty applications, including the setting of small bridge plugs and tubing cutters. The device is available with a standard 1.315 NU 10 RD API pin up, making it readily adaptable to coil tubing or snubbing operations, and it is available with or without an automatic venting system.

Operation:

The Pressure-Actuated Firing Device is shear-pinned for the specified bottomhole pressure and well conditions. After the bottom-hole assembly is positioned at depth, the well is pressurised to overcome the shear pins. A percussion detonator simultaneously detonates the ballistics/perforating assembly.

Features and Benefits:

- Standardised - one design for all gun sizes
- Extremely safe
- Ideal for overbalanced perforating
- Well-suited for highly-deviated completions

Specifications:

| | | |
|--------------------------------|--|---------------------------------------|
| Tubing Thread | 1.315 NU 10RD API pin up | N/A |
| Length | 11.5" (0.29 m) | 9.5" (0.24 m) |
| Diameter | 1.69" (43 mm) | 1.69" (43 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 | 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.

