

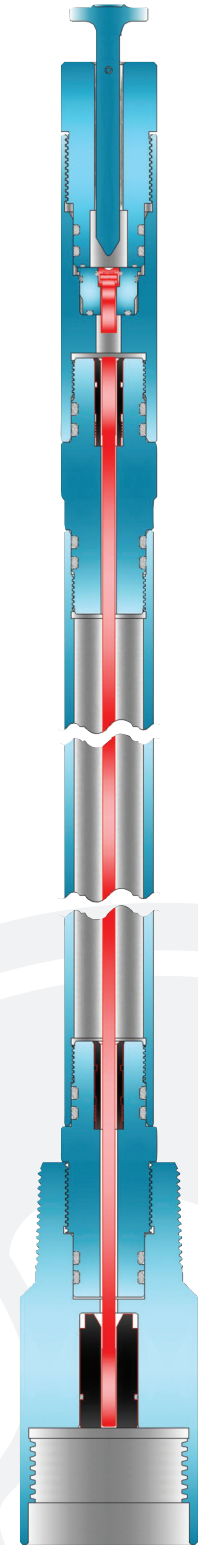
Mechanical Firing Device

The Mechanical Firing Device is used primarily for completions requiring virtually dry tubing to perforate at the desired underbalance pressure.

This device uses a percussion detonator that meets the safety requirements specified by API RP-67 (Perforating Safety Procedure). As with all Expro designs, no primary explosives are exposed during assembly, make-up, or installation. Nevertheless, when adequate hydrostatic pressure is present in the tubing, Expro recommends the use of either the Low-Pressure or High-Pressure Safety-Impact Firing System because of the inherent safety advantages afforded by these systems.

Specifications:

| | Extended | Non-Extended |
|--------------------------------|---|---|
| Tubing Thread | 2 ³ / ₈ " EU API 8RD or | 2 ⁷ / ₈ " EU 8RD API pin up |
| O.D. | 3.13" (79.5 mm) | 3.68" (93.47 mm) |
| I.D. | 1.56" (39.6 mm) No-Go | 1.56" (39.6 mm) No-Go |
| 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 | |
| Max. Operating Pressure | 10,000 PSI | 10,000 PSI |
| Seal Rating | 10,000 PSI standard | 10,000 PSI standard |
| | 20,000 PSI high-temp. | 20,000 PSI high-temp. |
| Tensile Strength | Determined by the Tubing Sub | Determined by the Tubing Sub |



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