

Automatic Venting / Firing Device

The 3¹/₈" Pressure-Operated Venting and Firing Device combines the utility of a firing and venting mechanism with the simplicity and precision of a single pressure-operated device.

The benefits afforded by this design improve the overall system reliability by:

- providing simultaneous operation of both the firing and venting mechanism and.
- eliminating the need to activate an independent venting device above the operating pressure of a firing mechanism.

When used in extreme overbalanced conditions, the production casing is not subjected to the high tubing pressures until the instant that the guns are actually detonated.

Operation:

The device is shear-pinned for the specified bottom-hole pressure conditions and overbalanced perforating pressure (if applicable). After the guns are positioned at depth, the well is pressurized to the pre-calculated operating pressure. When this shear valve is reached, the guns are detonated and a production flow path is simultaneously established.

Specifications:

Tubing Thread	2 ³ / ₈ " EU 8RD API box
Length	17.75" (0.45 m)
Diameter	3.125" (79.3 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
Differential	10,000 PSI
Seal Rating	10,000 PSI standard 20,000 PSI high-temp.
Tensile Strength	155,000 lbs.
Ported Flow Area	2.75 sq. in. (four 1.0" diameter holes)

