



APPLICATIONS

- TCP and coiled tubing perforating
- Underbalance and overbalance perforating
- Highly deviated and horizontal wells
- Extreme slimhole perforating (1.315" tubing)

FEATURES

- Utilizes industry leading precision shear pins
- Can be run on top or bottom of Hunting guns
- Designed to API RP-67 (Oilfield Explosive Safety) guidelines
- Redress kits
- Simple, reliable and rugged design

BENEFITS

- Precision shear pins guaranteed to actuate within 5% of calculations
- Enhanced safety as difficult to detonate at surface or by electrical sources
- Can be effectively utilized in very high underbalance environments
- Compatible with all Hunting TCP firing systems
- Redress kits allow for quick turnarounds

The Direct Pressure Firing Head is designed for well conditions that are not favorable for dropping a detonating bar or where a backup pressure firing head is desirable.

The firing head is assembled to actuate at a predetermined pressure by using precision shear pins. The firing piston is held within the retainer sleeve by these precision shear pins. The number of pins used is based on well conditions and desired safety factor. Hydrostatic plus applied pressure is used to hydraulically actuate the firing head within $\pm 5\%$ of the calculated values. When the precision shear pins fail at the predetermined pressure, the firing piston drives the firing pin into the percussion initiator which in turn detonates the perforating gun assembly.

DIRECT PRESSURE FIRING HEAD HARDWARE SPECIFICATIONS

Assembly Part Number	FHPA-1375-000**	FHPA-1375-000T 1.315" NUJ Top Connection
O.D. (in)[mm]	1-3/8 [35]	1-3/8 [35]
Makeup Length (ft)[m]	0.49 [0.15]	0.49 [0.15]
Max. 100 Hour Temperature Rating (°F)[°C]†	400 [204]	400 [204]
Min. Required Pinning Pressure (psi)[MPa]	1,800 [12]	1,800 [12]
Max. Operating Pressure (psi)[MPa]‡	20,000 [138]	20,000 [138]
Precision Shear Pin Part Number 500psi/pin [3.4MPa/pin] 900psi/pin [6.2MPa/pin]	SPIN-0076-250 SPIN-0100-250	SPIN-0076-250 SPIN-0100-250
Redress Kit Part Number	FHPA-1375-000**-KIT	FHPA-1375-000**-KIT

** Use "HT" for high temperature operations (above 325°F (163°C))

† Hardware only. Viton O-rings need to be used above 325°F (163°C)

‡ Backup O-rings required above 13,000psi (90MPa). Kit FHPA-1375-000-BUKIT needs to be ordered separately

