

FIRING HEAD – DUAL TOP FIRE BAR DROP/PRESSURE WITH DELAY

The Titan Dual Top Firing Head provides a safe and reliable dual firing system for use on top of a TCP Gun Assembly. This firing head is designed to allow the use of a combination of the Titan Bar Drop Hydro-Fire and the Direct Pressure Firing Heads to provide two independent Firing Heads by which to initiate detonation of the gun system.

Operating procedures for this system will be determined by which firing heads are used.

Features/Benefits

- Safe
 - Minimum pinning requirement of 1,800 PSI (124.11 bar)
 - Cannot be detonated at surface without applying pressure
 - Cannot be detonated accidentally by electrical sources
 - Requires a minimum hydrostatic pressure at the firing head
- Several options for firing head combinations
- Uses existing Bar Drop and Direct Pressure Firing Heads
- Can be used for underbalanced or overbalanced perforating
- Can be used for perforating in highly deviated wells

Specifications

Thread	2 3/8" EU 8rd	2 7/8" EU 8rd
Outside Diameter (OD)	3.375 in (85.73 mm)	3.668 in (93.17 mm)
Overall Length	85.125 in (2.16 m)	85.125 in (2.16 m)
Makeup Length	85.125 in (2.16 m)	85.125 in (2.16 m)
Min. Operating Press.	1,800 PSI (124.1 bar)	1,800 PSI (124.1 bar)
Max. Operating Press.	20,000 PSI (1,380 bar)	20,000 PSI (1,380 bar)
Shear Pin Value	900 PSI/pin @ 70°F	900 PSI/pin @ 70°F
Calculated Tensile	120,000 lbs (54.4 t)	120,000 lbs (54.4 t)

