

Extreme High Pressure TCP Top Dual Firing Head (TDFH)

Expro's Top Fired Dual Firing Device has over 30 year's successful track record in deep water applications and has been configured for extreme high pressure well conditions. It provides two means of detonating the perforating gun with the actuators placed on the top end of the perforating assembly.

The primary actuator for the assembly is a pressure operated delay device while the back-up firing system can be Expro's mechanical, safety mechanical, or pressure operated delay firing devices, depending on well constraints and/or the desire for intervention-less operations. An optional packer by-pass system is available for closed system annular firing.



Features and benefits

- Top-firing redundancy.
- Adaptable to all TCP initiation systems.
- Tubing and/or annular firing.
- Optional packer by-pass system available for closed system annular firing.
- Affords intervention-less TCP gun firing operations.

Applications

- TCP in extreme high pressure wells.
- TCP in standard or high pressure wells, where additional operating safety margins are desired.

Tubing Conveyed Perforating (TCP)



Extreme Pressure Series

Technical specifications	
Firing head	Top fired dual firing assembly
P/N:	FH-TF-0401-0000
Max. OD	4.00 in (102 mm)
Length (with Fike 6 minute delay)	3.58 ft (0.93 m)
Temperature rating:	Determined by explosive package utilised: HMX = 295 Degrees F/200 hours HNS ≤ 400 Degrees F/200 hours
Pressure rating: Collapse Burst Seal Rating	30,000 psi (2068 bar) Not applicable 30,000 psi @ 350°F (400°F available)
Tensile	320,000 lbf
Shear pin value: 0.130 in x 0.375 in	540 psi / Pin @ 70°F
Thread connection:	3 1/2" EU 8 RD Pin up
Service	H2S, CO2, acid