



# *Hydrostatic Bar-Drop Firing Head*

Weatherford's hydrostatic bar-drop firing head is designed to promote safety and reliability when detonating a gun assembly in tubing-conveyed-perforation (TCP) applications. To initiate operation, minimum hydrostatic pressure must be applied to the firing piston once the bar impacts the firing head. When set in motion, the drop bar impacts the release rod on the firing head, shears the retaining pin, and moves the rod down to release the firing piston. Hydrostatic pressure on the firing piston drives it downward, enabling the firing pin on the bottom of the firing piston to strike the percussion detonator, discharging the gun assembly.

### *Applications*

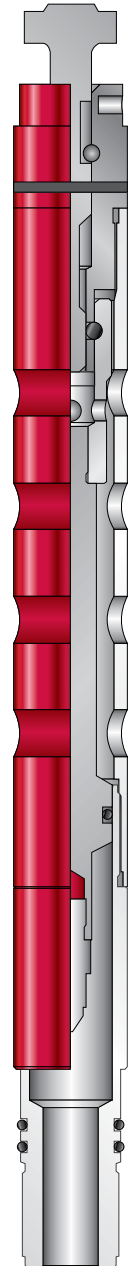
- Underbalanced and overbalanced TCP operations
- Perforating operations in highly deviated and horizontal wells and hydrostatic conditions

### *Features, Advantages and Benefits*

- Firing head requires minimum hydrostatic pressure to operate and cannot be detonated accidentally at surface or by electrical sources, promoting operational safety.
- Firing head can run under low hydrostatic conditions, providing a highly underbalanced environment when guns are fired.

### *Options*

- High- and low-pressure assemblies are available to suit operating conditions.





## *Hydrostatic Bar-Drop Firing Head*

### *Specifications*

<b>Firing-head pressure</b>	<b>Low</b>	<b>High</b>
OD (in./mm)	1.380 34.9	
Overall length (in./cm)	15.36 39.0	
Makeup length (in./cm)	13.0 33.0	
Minimum required hydrostatic pressure (psi/bar)	200 14	2,000 138
Maximum operating pressure (psi/bar)	8,500 586	20,000 1,380