

# HYDRAULIC ABSOLUTE PRESSURE

## TCP FIRING HEAD

### INNOVATION REVEALED

The **Hydraulic Absolute Pressure Firing Head** is used for pressure firing in highly deviated wells, horizontal wells or used as a backup firing system. This tool uses precision shear stud technology with an accuracy of +/-5%. Shear pressure ranges are from 1,250 to 13,000 psi (8.6 to 89.7MPa).

### FEATURES

- Safe, economical, simple and reliable
- Single shear device (no combinations)
- Can be used as a tubing isolated firing head
- Pressure rated for 15,000 psi (103.4MPa)
- Easily converts to a mechanical firing head
- Uses industry standard initiators
- Can be used to detonate Baker #10 and #20 Setting Tools
- Redress Kits Available

### OPERATIONS

Once the TCP BHA is in position combined applied & hydrostatic pressure is applied down the work string. The combined pressure then enters into the firing head through the pressure ports shearing the shear stud in turn hammering the firing pin onto the CP initiator initiating the explosive train.

Note: Downhole pressure calculations must be carefully calculated to insure proper selection of the shear stud.

**WARNING:** Only qualified personnel should use or assemble Magnum TCP equipment. Use of Magnum TCP equipment in contrary to our specifications may result in property damage, injury or fatality. If you are not trained in the handling and the use of explosive devices, DO NOT attempt to assemble any Magnum Perforating Systems or Magnum Firing Devices.

\* Other thread types available upon request / \*\* Use VITON 90 DURO O-RINGS

O.D. inch (mm)	TOP CONNECT* inch (mm)	BOTTOM CONNECT* inch (mm)	LENGTH inch (mm)	OPERATING RANGE	INITIATOR TYPE
2.0625 (52.4)	2-1/16 IJ PIN (52.4)	1.688 8 Stub ACME Pin (42.9)	11 (279.4)	450°F ** 10,000 psi (232°C) (68.9MPa)	Percussion (CP)
2.75 (69.9)	2-3/8 EUE PIN (60.3)	2.375 6 ACME Pin (60.3)	13.25 (336.6)	450°F ** 15,000 psi (232°C) (103.4MPa)	
3.125 (79.4)			11 (279.4)		
3.375 (85.7)	2-7/8 EUE PIN (73.0)				

