

# MECHANICAL AUTO GUN RELEASE

## TCP FIRING HEAD

### INNOVATION REVEALED

The **Mechanical Auto Gun Release Firing Head** is used to initiate the detonation of the TCP Gun mechanically and is used to release the guns immediately after detonation. The mechanical AGR incorporates a built-in 1.50" (38.1mm) ID Safety No-Go that helps protect the firing pin from accidental detonation. The No-Go also aids in guiding the drop bar onto the firing pin. After release, a well-chamfered guide remains on the work string to act as a wireline re-entry guide.

### FEATURES

- Can be run with the completion string - saving rig time!
- Safe, economical, simple and reliable
- Easily converts to a hydraulic absolute pressure auto gun release firing head
- Connects to standard industry TCP top subs
- Eliminates the need for a wireline run to activate a mechanical tubing release
- Uses industry standard initiators

### OPERATIONS

Once the TCP BHA is in position a Magnum TCP drop bar is released from surface down the work string. When the drop bar impacts the firing pin the firing pin in turn strikes the CP initiator, initiating the explosive train. The pressure wave generated by the detonation of the detonating cord shifts the internal piston disengaging the lock mechanism, releasing the TCP guns into the well sump.

When run as a Hydraulic Absolute Pressure AGR, the tool is activated the same way as the Magnum Hydraulic Absolute Firing Head

**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)	NO GO I.D. inch (mm)	LENGTH inch (mm)	OPERATING RANGE	MIN. I.D. AFTER RELEASE	MAX WEIGHT LOAD lbs (kgs)	INITIATOR TYPE
3.125 (79.4)	2-3/8 EUE BOX (60.3)	2.750 - 6 ACME BOX (69.9)	1.500 (38.1)	17.4 (442.0)	450°F ** (232°C)	2.250 (57.2)	66,000 (29,937.6)	Percussion (CP)
3.460 (87.9)	2-7/8 EUE BOX (73.0)			17.5 (444.5)				
4.500 (114.3)	3-1/2 EUE BOX (88.9)							