

## DESCRIPTION

The Pressure Activated Firing Head (HP) was developed for use where pressure firing is required, including horizontal wells, well stimulation or as a backup firing system. These tools utilize our precision shear pin technology with an accuracy of +/- 5%. This high pressure system can be set to activate at predetermined pressures ranging from 2,000 psi to 25,000 psi by utilizing two sizes of precision shears.

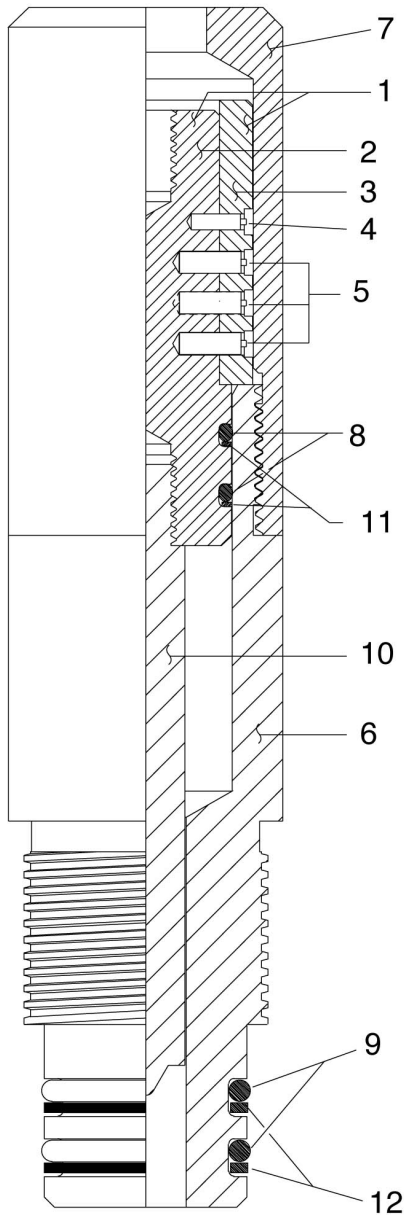
## FEATURES AND BENEFITS

- Utilized with any of Owen TCP Firing Head Top Subs or an Automatic Release Firing Head.
- Used with Owen Time Delay Fuses.
- Can be placed top or bottom of all Owen TCP Guns.
- Well Suited for highly deviated wells.
- Can be run on Coil Tubing.
- Can be run on Slick Line or Electric Line.
- Minimum operating pressure 2,000 psc (14 MPa)
- Maximum operating pressure 18,000 psi (124 MPa)
- Requires pinning to 8,000 psi (55 MPa) to pass API RP-67 drop testing

## SPECIFICATIONS

O.D.	1.69"	43 mm
Make-up Length	4.75"	121 mm
Max. Temperature <sup>1</sup>	250°F (121°C)	
Max. Hydrostatic	25,000 psi	172.3 MPa
Min. Hydrostatic	2,000 psi	13.8 MPa

<sup>1</sup>The maximum temperature can be increased to 400° (200°C by substituting the 90 durometer Nitrile O-Rings with 90 durometer Viton O-Rings. Refer to the Time vs Temperature chart for Explosives to confirm any explosives requirements.



ITEM	PART NUMBER	QTY	DESCRIPTION
--	TC-020-1688-200	--	Pressure Activated Firing Head, HP
1	TC-020-0003-200	1	Piston/Shear Ring Matched Set - HP
2	TC-020-0004-200	REF	Piston - PAF (included in TC-020-0003-200 - not sold separately)
3	TC-020-0005-200	REF	Shear Ring - PAF (included in TC-020-0003-200 - not sold separately)
4 *	SF-010-0100-038	8	Shear Pin - small diameter
5 *	SF-010-0130-045	24	Shear Pin - large diameter
6	TC-020-0001-000	1	Piston Housing - PAF
7	TC-020-0002-200	1	Retainer Cap - PAF - HP
8 *	OOO-N569-118	2	O-Ring
9 *	OOO-N569-214	2	O-Ring
10*	TC-020-0000-000	1	Firing Pin, C.P./TDF - Slim
11 *	OB-118-1061-4PE	2	Back-up Ring - Peek
12 *	OB-214-1248-4PE	2	Back-up Ring - Peek
--	TC-020-1688-299P	--	Redress Kit, PAF, HP
--	TC-020-1688-699P	--	Redress Kit, PAF, HP, HT
--	MAN-TC-020-1688-200	--	Assembly Procedures Manual

\* Denotes items in Redress Kits.

High Temperature Kits contain Viton 90 O-Rings.