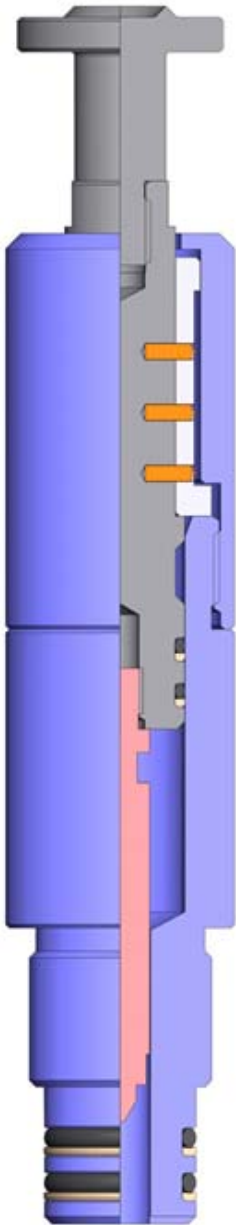


Pressure Activated Firing Head Ultra HPHT



Description

The Pressure Activated Firing Head (Ultra HPHT) was developed for use where high firing pressure is required, including in horizontal wells, well stimulation or as a backup firing system. These tools utilize our precision shear pin technology with an accuracy of +/- 5%. This ultra-high pressure system can be set to activate at predetermined pressures ranging from 20,000 psi to 33,000 psi. Recommended for use above 20,000 psi.

Features and Benefits

- Utilized with any of Owen Firing Head Top Subs.
- Used with Owen Time Delay Fuses.
- Can be placed top or bottom of all Owen TCP Guns.
- Well suited for highly deviated wells.
- In vertical wells can act as a redundant system with the use of a drop bar.

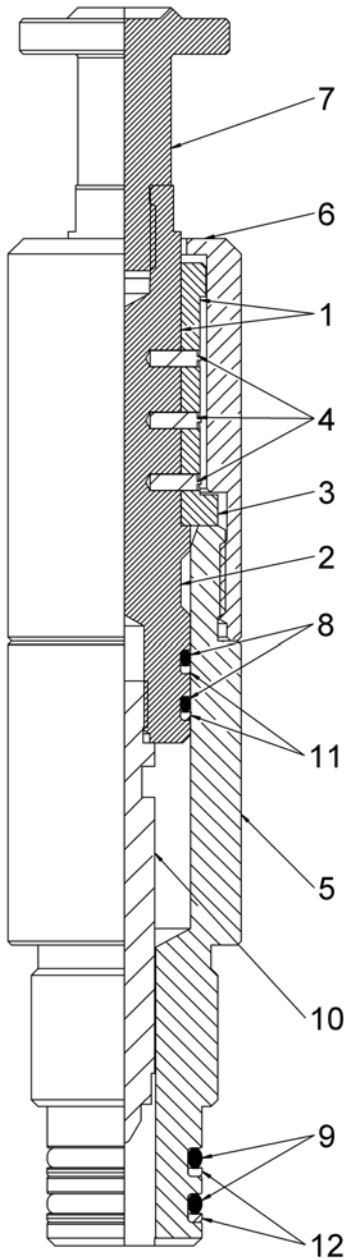
Specifications

O.D.	1.88"	47.6 mm
Make-Up Length	7.6"	193 mm
Max. Temperature	500°F (260°C)	
Min. Recommended Hydrostatic	20,000 psi	137.8 Mpa
Max. Hydrostatic	33,000 psi	227.4 MPa

Substitute the 90 durometer Viton O-Rings with 90 durometer Aflas O-Rings at temperatures above 450°F. Refer to the Time vs. Temperature charts for Explosives to confirm any explosives requirements.

Note: This is a one-time use tool due to the extreme amount of forces that occur during activation.

BOM and Schematic



Item	Part Number	Qty	Description
--	TC-020-1875-800	--	Pressure Activated Firing Head, Ultra HPHT
1	TC-020-0003-800	1	Piston / Shear Ring Matched Set, Ultra HPHT PAFH
2	TC-020-0004-200	-	Piston, Ultra HPHT PAFH (included in TC-020-0003-800 - not sold)
3	TC-020-0005-200	-	Shear Ring, Ultra HPHT PAFH (included in TC-020-0003-800 - not sold)
4	SF-010-0130-045	48	Shear Pins
5	TC-020-0001-800	1	Piston Housing, Ultra HPHT PAFH
6	TC-020-0002-800	1	Retainer Cap, Ultra HPHT PAFH
7	TC-020-0010-800	1	Impact Extension Rod, Ultra HPHT PAFH
8*	OOO-V569-118	2	O-Ring 118, Viton
9*	OOO-V569-214	2	O-Ring 214, Viton
10	TC-020-0000-000	1	Firing Pin, C.P./TDF
11	OB-118-1061-4PE	2	Back-Up Ring - Peek
12	OB-214-1248-4PE	2	Back-Up Ring - Peek
--	TC-020-1875-899	--	Aflas O-Ring Kit
--	MAN-TC-020-1875-800	--	Assembly Procedures Manual

* Denotes items in Aflas O-ring Kit