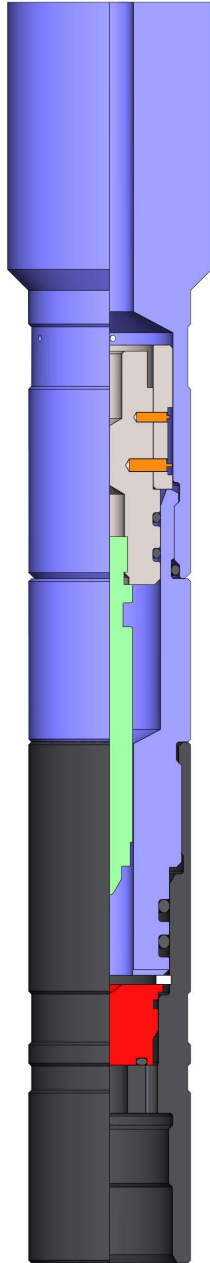


PRODUCT INFORMATION:



DESCRIPTION:

The Coil Tubing Pressure Activated Firing Head was developed for use where pressure firing is required such as horizontal wells, well stimulation or as a backup firing system. This Firing Head utilizes our precision shear pin technology with an accuracy of +/- 5%. This system can be set to activate at predetermined pressures ranging from 2,000 psi to 18,000 psi in increments of 250 psi by utilizing two sizes of precision shears.

FEATURES AND BENEFITS:

- Can be used with Owen Time Delay Fuses
- Can be placed top or bottom of all Owen Small Scalloped Gun Systems (1-11/16", 2-1/8", 2-1/2")
- Well Suited for highly deviated well
- The retainer cap top thread connection is specified when ordering.
- For safety, all retainer caps have three weep holes to prevent trapped pressure above the firing head.
- Minimum operating pressure 2,000 psi (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

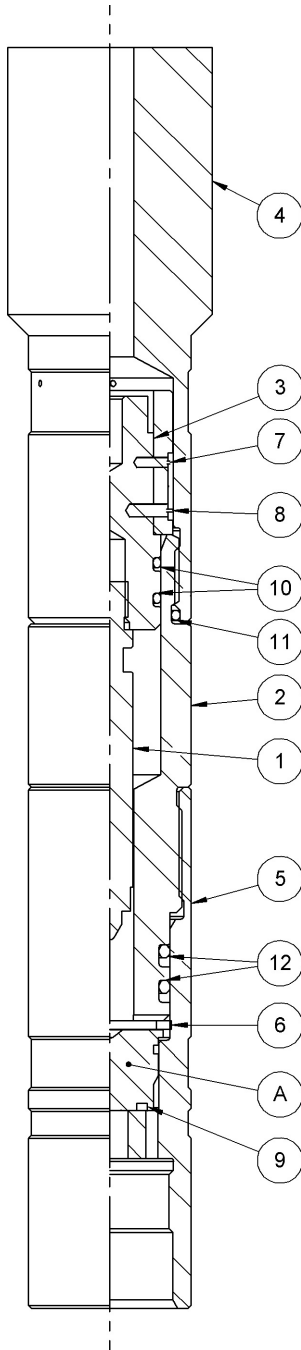
SPECIFICATIONS:

	TC-030-1688-000	
O.D.	1.69 IN	43 MM
MAX. TEMPERATURE ¹	250°F	121°C
MAX. HYDROSTATIC	18,000 psi	124 Mpa
MIN. HYDROSTATIC	2,000 psi	13.8 Mpa
MAX. TENSILE STRENGTH	33,000 lbf	14 680 daN

¹The 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.

PRODUCT INFORMATION:

BILL OF MATERIALS:



ITEM	PART NUMBER	QTY.	DESCRIPTION
--	TC-030-1688-000	--	Coiled Tubing Pressure Activated Firing Head
*1	TC-020-0000-000	1	Firing Pin, Percussion Det.
2	TC-020-0001-000	1	Piston Housing
3	TC-020-0003-000	1	Piston/Shear Ring Set (Matched Set)
--	TC-020-0004-000	--	Shear Piston
--	TC-020-0005-000	--	Outer Shear Ring
4	TC-031-0008-000	1	Retainer Cap - Special Application
5	TC-040-0010-400	1	Detonator Housing, None Compression
*6	HSC-0100-048E	1	Compression Gasket
*7	SF-010-0100-038	8	Shear Pin - Small Diameter
*8	SF-010-0130-045	16	Shear Pin - Large Diameter
*9	OOO-N569-113	1	O-Ring, N-90
*10	OOO-N569-118	2	O-Ring, N-90
*11	OOO-N569-124	1	O-Ring, N-90
*12	OOO-N569-214	2	O-Ring, N-90
A	Reference	1	Percussion Det.
--	TC-030-1688-000V	--	Coiled Tubing Pressure Activated Firing Head, HT
--	TC-030-1688-099P	--	Re-Dress Kit, Nitrile, CT PAFH
--	TC-030-1688-199P	--	Re-Dress Kit, Viton, CT PAFH HT
--	MAN-TC-030	--	Assembly Manual

* Denotes parts in Redress Kit.

High Temperature Firing Head and Redress Kits contain Viton 90 O-Rings.

For information concerning the different adapters and crossovers for the downhole devices that can be run with this tool, please contact your local Owen representative.

Note: Retainer cap, for special applications with 1" or 1-1/2" AMT Box Thread (sold separately).

TC-031-0008-004 - 1" AMT Box Thread.

TC-031-0008-006-1-1/2" AMT Box Thread