

GEODynamics AUTOVENT FIRING HEAD ASSEMBLY

DESCRIPTION

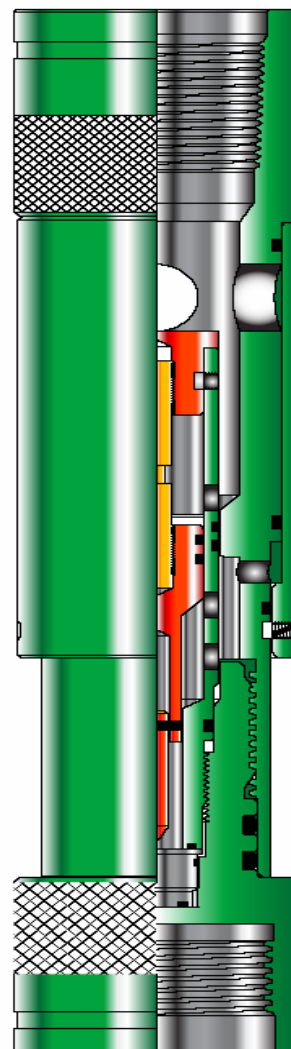
The GEODynamics Autovent Firing Head is used to initiate the Tubing Conveyed Perforating (TCP) Gun Hydraulically. This firing head incorporates a dump sleeve that is actuated by applied pressure. The dump sleeve exposes four ports that can be used for circulating or pump volumes.

ADVANTAGES

- Safe, economical, simple and reliable
- Ideal for horizontal wells and extremely deviated wells.
- Rugged design plus large flow area makes it well suited for extreme over balance perforating operations
- Single shear device (no combinations)
- Uses industry standard initiators

OPERATION

The GEODynamics Autovent firing head is run in a closed environment. The work string must be filled while running the TCP bottom hole assembly into the well. The calculated applied pressure from surface plus combined hydrostatic pressure shear the shear stud driving the firing pin into the initiator initiating the explosive train. When the firing pin shifts it exposes a port that transfers the applied pressure to shear the shear screws. This applied pressure creates a differential shifting the shifting sleeve allowing communication between the tubing and annulus through the flow ports.



SPECIFICATIONS

DESCRIPTION	2-3/4	3-3/8	4.0
TOP CONNECTION	2 3/8 EUE	2 3/8 EUE	2 7/8 EUE
BOTTOM CONNECTION	ACME BOX	ACME BOX	ACME BOX
TOOL OD	3.125 in	3.375 in	4.00 in
MAXIMUM PRESSURE	15,000 psi	15,000 psi	15,000 psi
MAXIMUM TEMPERATURE *	450 F	450 F	450 F
SHEAR SCREW RATING (1 SCREW)	1400 psi	1400 psi	1400 psi
FLOW AREA	3.97 in	3.97 in	4.91 in
LENGTH	14.0 in	14.0 in	14.0 in
WEIGHT	10.0 lbs	11.0 lbs	14.0 lbs
PART NUMBER	11.AVTA.318.23BB	11.AVTA.338.23BB	11.AVTA.400.27BB
REDRESS KIT	11.AVRK.318.9999	11.AVRK.318.9999	11.AVTA.400.9999

* USE VITON 90 DURO O-RINGS