

GEODYNAMICS ISOLATION SUB ASSEMBLY

DESCRIPTION

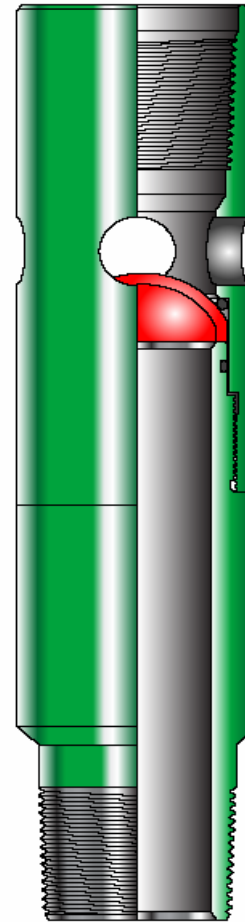
The GEODynamics Isolation Sub Assembly is designed to keep the static area below the communication ports completely isolated for tubing conveyed perforating (TCP) operations. To achieve the isolation condition this tool uses a high strength ceramic disk that is placed below the flow ports on the sub housing. The ports are used for production, pump volumes or to simply act as a tubing drain when pulling out of the hole.

ADVANTAGES

- Economical, simple, safe and reliable
- 10,000 psi differential rating
- Full opening ID once the disk is ruptured
- Clean fluid to the firing head
- Maximum flow area

OPERATION

The GEODynamics Isolation Sub is placed below the packer and should be placed a minimum of 30' above the mechanical firing head device. Run the TCP guns into the well and one joint of tubing. Fill the tubing with clean fluid and install Isolation Sub. Continue to run TCP assembly to perforation depth. Correlate into position, set and pressure test packer. Release drop bar at surface. The drop bar will shatter the ceramic disk then hammer the firing pin to activate the firing head.



US. Patent Number:
5,924,696

SPECIFICATIONS

DESCRIPTION	2-3/8 TOOL	2-7/8 TOOL	3-1/2 TOOL
CONNECTION *	EUE	EUE	EUE
TOOL OD	3.062 in	3.688 in	4.50 in
TOOL ID	1.995 in	2.441 in	2.992 in
MAX PSI ABOVE DISK – CONVEX SIDE	10,000 psi	10,000 psi	10,000 psi
MAX PSI BELOW DISK – CONCAVE SIDE	1,000 psi	1,000 psi	1,000 psi
MAXIMUM TEMPERATURE **	450 F	450 F	450 F
FLOW PORT FLOW AREA	3.97 in sq	4.90 in sq	7.07 in sq
TENSILE RATING	135,000 lbs	198,000 lbs	270,000 lbs
LENGTH	11.0 in	11.0 in	11.0 in
WEIGHT	13.0 lbs	17.0 lbs	25.0 lbs
ASSEMBLY PART No.	08.MDSA.238.8EIS	08.MDSA.278.8EIS	08.MDSA.312.8EIS
REDRESS KIT PART No.	01.MDRK.238.9999	01.MDRK.278.9999	01.MDRK.312.9999

* OTHER THREAD TYPES AVAILABLE UPON REQUEST / ** USE VITON 90 DURO O-RINGS