

GEODYNAMICS HYDRAULIC DUMP VALVE ASSEMBLY

DESCRIPTION

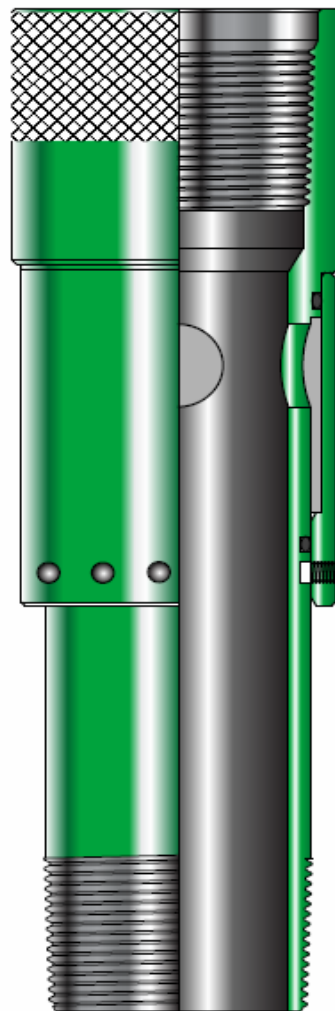
The GEODynamics Hydraulic Dump Valve Assembly is designed to run in conjunction with the Tubing Convey Perforating (TCP) System to provide a communication path between the work string and annulus. The external shifting sleeve is secured to the tool body by brass shear screws and is sealed by elastomers isolating the work string from the annulus. A differential pressure is created between the work string and annulus shifting the shift sleeve exposing the flow ports for production, pump volumes or to simply act as tubing drain when pulling out of the hole.

ADVANTAGES

- Safe, economical, simple and reliable
- Flow ports designed for large flow area
- Ideal for horizontal perforating
- Well suited for extreme overbalanced perforating
- Activates with a minimum of 750 psi differential

OPERATION

The GEODynamics Hydraulic Dump Valve Assembly is primarily used with the GEODynamics Hydraulic Pressure Firing Head and Time Delay System and is positioned between the firing head and packer. Fill the work string with fluid as you are running the TCP assembly into the well. To activate this tool, apply down the work string the calculated combination of applied pressure and hydrostatic pressure that will first shear the brass shear screws then create the differential pressure needed to shift the shifting sleeve exposing the flow ports.



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
MAXIMUM PRESSURE	15,000 psi	15,000 psi	15,000 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
SHEAR SCREW RATING (1 SCREW)	1,100 psi	938 psi	450 psi
LENGTH	12.0 in	12.0 in	12.0 in
WEIGHT	10.0 lbs	12.0 lbs	15.0 lbs
PART NUMBER	08.HDVA.238.8EBP	08.HDVA.278.8EBP	08.HDVA.312.8EBP
REDRESS KIT	08.HDRK.238.9999	08.HDRK.278.9999	08.HDRK.312.9999

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