

PRODUCT OVERVIEW:

The Atmospheric Delta Hydraulic Port is a high performance pressure activated sleeve designed to hydraulically gain access to the annulus near the toe of a well bore. The Delta is available in a single or dual port design. Once hydraulically activated, the sleeve instantaneously opens and provides a flow path for primary stage stimulation operations or to pump down balls. The Teflon coated pistons maintain a consistent opening value in any and all well bore conditions and fluids.

Field adjustable shear screws allow for a selective opening pressure to match any well bore depth and fluid conditions. The internal atmospheric chamber requires predetermined calculations of hydrostatic pressure, friction losses and pressure necessary to set any hydraulically activated tools within the BHA. Careful consideration must be taken when planning the opening pressure. The Atmospheric Delta Port functions independently of any annular pressure. The compact Delta design provides ease of handling and rig floor make up, liner string flexibility, and trouble free deployment into deviated well profiles.

The Delta is rated at 10,000 psi differential pressure as a standard. Standard configurations are P-110 equivalent. Alternate materials, configurations and higher differential pressure ratings are available for utilization in extremely hostile environments. A full line of accessory equipment is available providing a complete open hole multi-stage stimulation system.

FEATURES:

- A combination of proven features ensures access to the formation.
- Commonly used as the first stage in Zone Seeker ball drop operations.
- 360° opening to allow equal frac distribution.
- Teflon Coated pistons maintains consistent opening pressures in any environment.
- External pressure will not affect the atmospheric component of the Delta Port.
- Both components allow for equal or greater than liner flow area once open.
- Pistons lock in open position once activated ensuring the sleeve will not close impeding the flow area.
- Field adjustable opening shear values.
- Available in corrosion resistant alloys for hostile environments.
- Standard and premium thread connection available.



Zone Seeker Delta Port Technical Specifications							
Size		Weight Range		ID		OD	
in	mm	lb/ft	kg/m	in	mm	in	mm
3.500	88.90	9.30	13.84	3.000	76.20	4.500	114.30
4.500	114.30	11.60 - 15.10	17.26 - 22.47	3.500	88.90	5.625	142.88

*Additional Sizes and Configurations Available
 Contact WellBoss Representative for Tool Specific Specifications*