

PRODUCT OVERVIEW:

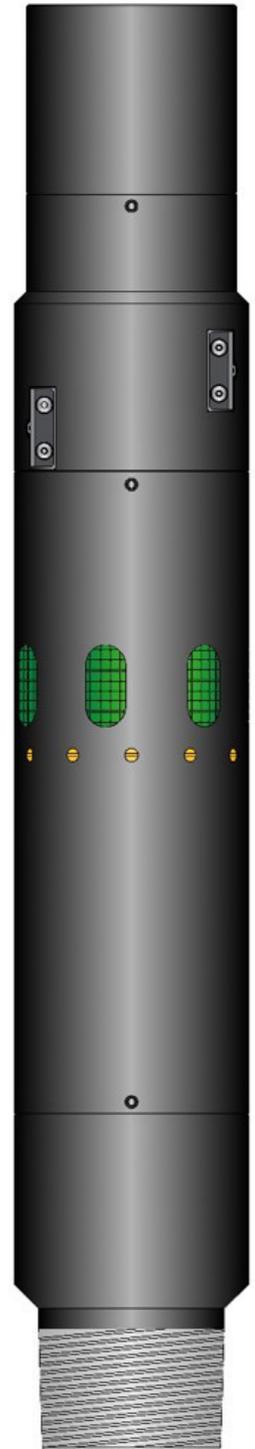
The Zone Starter Cycling Toe Initiation Valve is a pressure activated sleeve designed to work as an annular communication device between the well bore and the formation. The Zone Starter allows operators to test their casing to any desired pressure in order to ensure well bore integrity prior to activating the sleeve. It is also designed to eliminate the risk of premature opening due to high pumping pressures while circulation or cementing.

The Zone Starter can be used in cemented or open hole applications. The primary function is to create a flow path to pump balls, plugs or perforation guns to depth, eliminating the need for an initial coil tubing run. Additionally, the Zone Starter can be used as the primary stage for stimulating or fracturing operations, either as a single sleeve or in a multiple sleeve configuration.

Its purpose built design allows for up to 2 pressure cycles which must exceed a predetermined initiation pressure. Each pressure cycle can be held for any duration of time without the risk of opening the valve. The valve then opens at a low pressure during the bleed down of the second pressure cycle. This is ideal for scenarios where formation break down is not desired or a Diagnostic Fracture Injection Test is to be performed. It also ensures that well bore casing integrity has been maintained.

FEATURES:

- Short & slim design.
- Torque through the tool during make-up and while RIH.
- Friction reducer coating on piston prevents cement bonding.
- Once activated, sleeve is locked in open position.
- Eliminates costly TCP run.
- Complementary dual cartridge design enhances tool reliability.
- Sleeve activation independent of differential pressure.
- Adjustable initiation pressure eliminates possibility of premature activation during pumping operations.
- Ability to pressure cycle up to 2 times prior to opening with no time constraints.
- Low final opening pressure.
- Choose from multiple flow configurations to meet specific frac' requirements.
- Full 360° flow access.
- Up to 360°F (180°C) temperature rating.
- Standard and premium thread connections available.



Zone Starter Cycling Toe Valve Technical Specifications

Absolute/ burst Pressure Rating		Size		ID		OD		Thread Connection	*Initiation Pressure		**Standard Flow Configuration Area	
psi	MPa	in	mm	in	mm	in	mm		psi	MPa	in ²	mm ²
15k	103.42	4.500	114.30	3.900	99.10	5.685	144.40	Box x Pin API or Premium	8k	55.16	1.980	1277.42
		5.000	127.00			6.050	153.67				-	-
20k	137.89	4.500	114.30	3.900	99.10			6.050	153.67	Box x Pin API or Premium	12.5k	86.18
		5.000	127.00			-	-					
		5.500	139.70	4.800	121.92	7.250	184.15	7.500	4838.70			
		5.500	139.70					-	-			
6.000	152.40	-	-	-	-	-	-	Full Flow	Full Flow			

*Available in a variety of initiation pressures in 500 psi increments

**Additional flow configurations available upon request