



ZoneSelect® Completions System SMART Toe Sleeve

The SMART toe sleeve allows the casing string to be tested to its full working pressure, with an unlimited hold period and without exceeding the working pressure. Placed at the bottom, or “toe,” of the completion string, the SMART toe sleeve actuates and opens after two internal pressure applications. Once the SMART toe sleeve is open, ZoneSelect balls or composite plugs can be pumped downhole for subsequent stimulation.

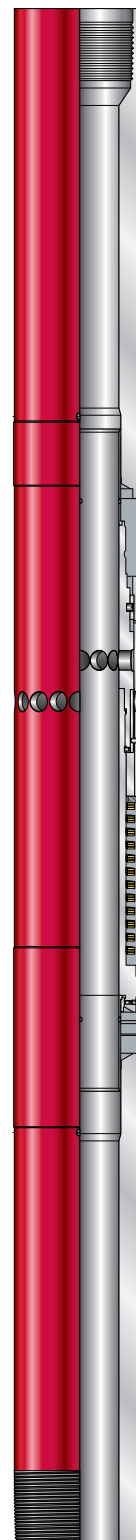
The SMART toe sleeve is fully cement compatible. It is an integral part of ZoneSelect completion systems, which maximize multizone stimulation through single-trip efficiency and a modular, custom design to accommodate specific wellbore conditions.

Applications

- Horizontal or vertical wells
- Cemented or openhole completions
- Toe-cluster stimulation
- Extended-reach stimulation
- Diagnostic fracture injection tests (DFIT)

Features, Advantages, and Benefits

- The sleeve can be used in horizontal and vertical wells, and in cemented and openhole completions.
- Because the sleeve does not open after the first pressure application, operators can maintain well integrity if issues arise at the surface.
- Each application of pressure can be held for an indefinite amount of time, enabling two opportunities to satisfy any regulatory requirements.
- The sleeve locks open, which prevents accidental tool closure caused by intervention tools.



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Specifications

Sleeve size (in., mm)	5 1/2 139.7
Tubing size (in., mm)	5 1/2 139.7
Weight (lb/ft, kg/m)	23 34.27
Burst rating (psi, MPa)	12,400 86
Collapse rating, 110 ksi (psi, MPa)	11,800 81.38
Maximum outer diameter (in., mm)	6 3/4 171.45
Maximum inner diameter (in., mm)	4 101.6
Inflation pressure range (psi, MPa)	2,275 to 6,930 15.68 to 47.8
Port flow area (in. ² , mm ²)	9 7/16 6,084
Temperature rating (°F, °C)	360 182