

# BALL DROP SLEEVE

## DESCRIPTION

The Ball-Activated Frac Sleeve is a proven, field-tested solution for multi-stage hydraulic fracturing operations. Installed as part of the liner completion assembly, each sleeve is positioned at predetermined depths to enable precise stage isolation and controlled stimulation.

Activation is achieved through the sequential dropping of balls, which shift the sleeve into the open position. Once activated, a ratchet-lock mechanism securely holds the sleeve in place during pumping. The system is compatible with both cemented and open-hole completions, offering flexibility across a wide range of well designs.

After stimulation, the ball seats are milled out to restore the full-drift inner diameter, ensuring an unrestricted wellbore for production or future interventions. Sleeves can be configured for either single-open operation or multi-open/close functionality, with reclosable designs operated by a coiled-tubing-deployed shifting tool.

## FEATURES

- Compatible with both cemented and open-hole completions
- Available in single-open or multi-open/close configurations
- Adjustable nozzles and activation pressures for tailored frac design
- Continuous pumping capability and support for extended laterals
- Optimized frac distribution and stimulation efficiency
- Reduced overall completion time and simplified operations

Casing / Liner size in - [mm]	OD Sleeve in - [mm]	ID in - [mm]
2,875 - [73]	3,75 - [95,3]	2,375 - [60,3]
3,5 - [88,9]	4 - [101,6]	2,875 - [73]
4 - [101,6]	4,5 - [114,3]	3,48 - [88,29]
4,5 - [114,3]	5,25 - [133,4]	3,85 - [97,8]
5 - [127]	5,75 - [146,1]	4,13 - [105,41]
5,5 - [139,7]	5,91 - [150,18]	4,88 - [123,83]
5,75 - [146,1]	6,75 - [171,5]	4,875 - [123,8]

