

## DESCRIPTION

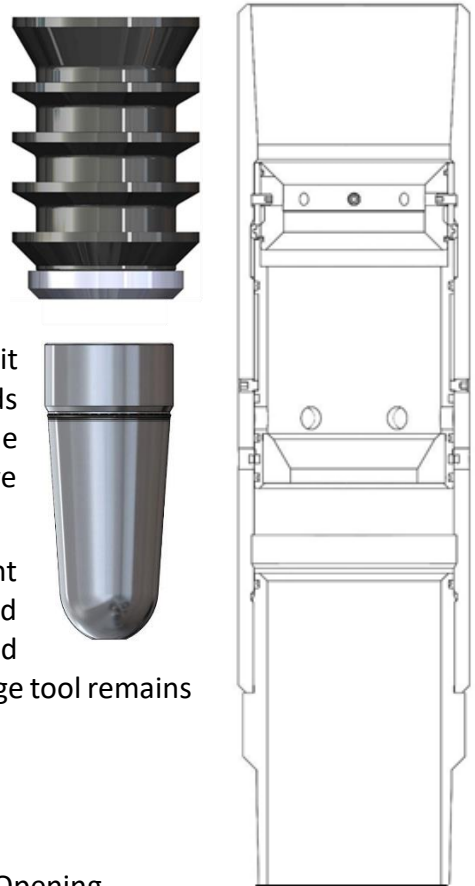
### A-SSC-M A-310 – Mechanical Stage Cementing Collar

The SSC is used for carrying out stage cementing applications where the well design or pump capacities prevent cementing in a single stage.

It features two internal sleeves, that can be shifted Mechanically, depending upon the plug configuration used, to open the cementing ports.

When the Flexible Indicating Plug lands on the landing / float collar, it pushes the 1<sup>st</sup> stage cement into the column, the opening plug then lands into the lower sleeve and shifts the cementing ports open. Enabling the second-stage cement to pass through the ports into the annulus above the tool.

The closing plug when released, wipes the casing ID clean of cement before bumping on a closing seat connected to inner sleeve. Increased pressure shifts the closing seat downward, releasing locking lugs and closing the tool. A snap ring locks the sleeve in position, ensuring the stage tool remains locked.



## FEATURES & BENEFITS

- Field adjustable shear values
- Interchangeability between Hydraulic opening and Mechanical Opening.
- PDC Drillable
- Reduced drill out times
- Robust Locking Mechanism
- The pressure-relief design prevents fluid trapping and compression between the opening device and the closing plug during the closing phase of the tool's operation
- Adjustable shifting pressures
- The system is PDC-drillable with anti-rotation features on the plugs, stage tool, and landing collar to prevent rotation during drill out, simplifying drill out and saving rig time and associated costs
- Robust construction

## APPLICATIONS

- Stage Cementing operations.

**DIMENSIONAL SPECIFICATIONS**

Casing Size	Weight	Opening Pressure	Closing Pressure
inch	lbs/ft	psi	psi
5-1/2	14-17	700-1000	1500
	15.5-20		
7	20-26		1200
	26-32		
7-5/8	26.4-29.7		
	29.7-39		
9-5/8	32.3-40		
	40-47		
	43.5-53.5		

Note: Other sizes available on request.

Available in sizes for their respective weight ranges with varying standard or exotic material based on compatibility with the well environment and application requirement. In addition, these are furnished with different end connections (Standard API BTC, LTC, STC or premium thread connections), to meet customer's requirements

**Also available in Hydraulic stage collar and for slotted liner application configuration.**