



NXG-MACS: MULTI-ACTIVATION CIRCULATION SUB

DEVELOPED TO OVERCOME THE TOUGHEST CHALLENGES.

NXG'S PATENTED MULTI-ACTIVATION CIRCULATION SUB (MACS) OFFERS INSTANT, ON-DEMAND ACTIVATION FROM SURFACE, REMOVING THE EXPENSIVE NPT INVOLVED IN DROPPING A BALL OR DART AS REQUIRED BY CONVENTIONAL TOOLS.

This tool has been designed and developed specifically to reduce rig time and overcome issues surrounding hole cleaning and lost circulation while drilling. The technology offers on demand activation in seconds without the need to drop a ball or dart, providing a better value proposition.

As part of your bottom hole assembly, our Multi-Activation Circulation Sub has been developed to not only solve the most difficult circulation problems, but to do so as effectively and reliably as possible.

It is an innovative tool which reduces safety risks and can provide substantial cost savings, minimising rig downtime breaking connections and waiting for balls or darts to circulate to bottom.

KEY FEATURES

- A patented internal mechanism allows flow ports in the outer body to be opened and closed in seconds from the surface
- Upon activation, a shut-off mechanism closes the tool inner bore, allowing lost circulation material to be pumped out through the side ports
- There are no electronics in the NXG-MACS - the tool functions with hydraulic pressure differentials, meaning there is also no requirement for flow
- Eliminates the need to break the drill string as part of the process: no 'ball' or 'dart' devices required
- Can be activated (opened or closed) as many times as required during an individual operation
- Its activation/deactivation status can be instantly gauged on the drill floor by monitoring SPP
- Applications include: lost circulation, well and wellhead cleanout, horizontal and directional drilling, surge protections, coring applications

