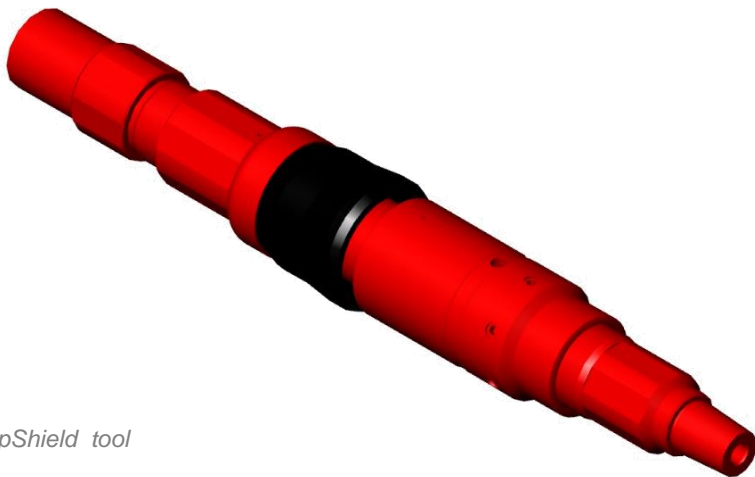


CupShield™

Protective Carrier Assembly for Cup Deployment

The Halliburton CupShield is a modified variant of a cup tool, in which the cup may be kept compressed while running in the hole, and released to expand after reaching the desired depth in the well.

The CupShield is designed to extend the application range for cup type tools, enabling use beyond 10,000ft running depth and below ID restrictions, by keeping the sealing element disengaged from the casing wall until deployed at target depth.



CupShield tool

The CupShield is designed to allow interchangeable cup elements. As with conventional cup tools, the element and thimble are easily replaced.

An installation sleeve is used to simplify initial compression of the cup on the surface, and set the sleeve for run mode. When at the target depth, the sleeve is hydraulically shifted open by pumping down the workstring to exceed a pre-determined activation pressure, shifting the Shield Sleeve down, and allowing the cup to expand.

The Shield Sleeve which compresses the cup element may accommodate a limited range of cups, but can also be reconfigured with alternative sleeves to allow for a greater range of cup sizes.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

APPLICATIONS

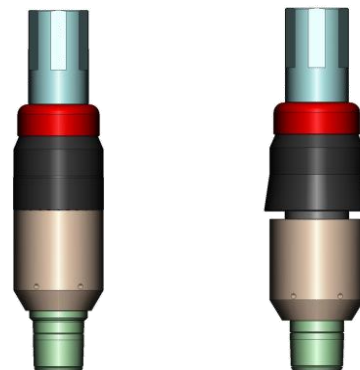
- » Zonal isolation for chemical injection or stimulation treatments
- » Usable with a lower packer to create a straddle tool, or as a single upper barrier

BENEFITS

- » Enables use of cup elements beyond 10,000ft running depth
- » Enables use of cup elements below ID restrictions in the wellbore
- » Allows return circulation during run in hole without interference from cup

FEATURES

- » Hydraulic activation allows retaining shield to be released on command
- » Installation tool facilitates compression of cup during surface assembly



*Sleeve Engaged:
Cup Compressed*

*Sleeve Disengaged:
Cup Expanded*

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.