Weatherford®

MetalSkin® Openhole Expandable Systems

Improving well architecture and mitigating drilling hazards

9-5/8 x 11-3/4 in., 9-5/8 x 11-7/8 in., 11-3/4 x 13 3/8 in.,
11-3/4 x 13 5/8 in., and 11-3/4 x 14 in.

The Solid Choice.

MetalSkin® Openhole Liner Systems

9-5/8 x 11-3/4 in., 9-5/8 x 11-7/8 in., 11-3/4 x 13 3/8 in., 11-3/4 x 13 5/8 in., and 11-3/4 x 14 in.

Elastomeric seal elements. Expanding against parent casing, these elements provide cost-effective, reliable zonal isolation. Conventional and swellable seal elements are available.

Expandable connectors. WTXC expandable connections are designed and tested using state of the art equipment. They are fully qualified to the latest API RP 5-EX qualification standards.

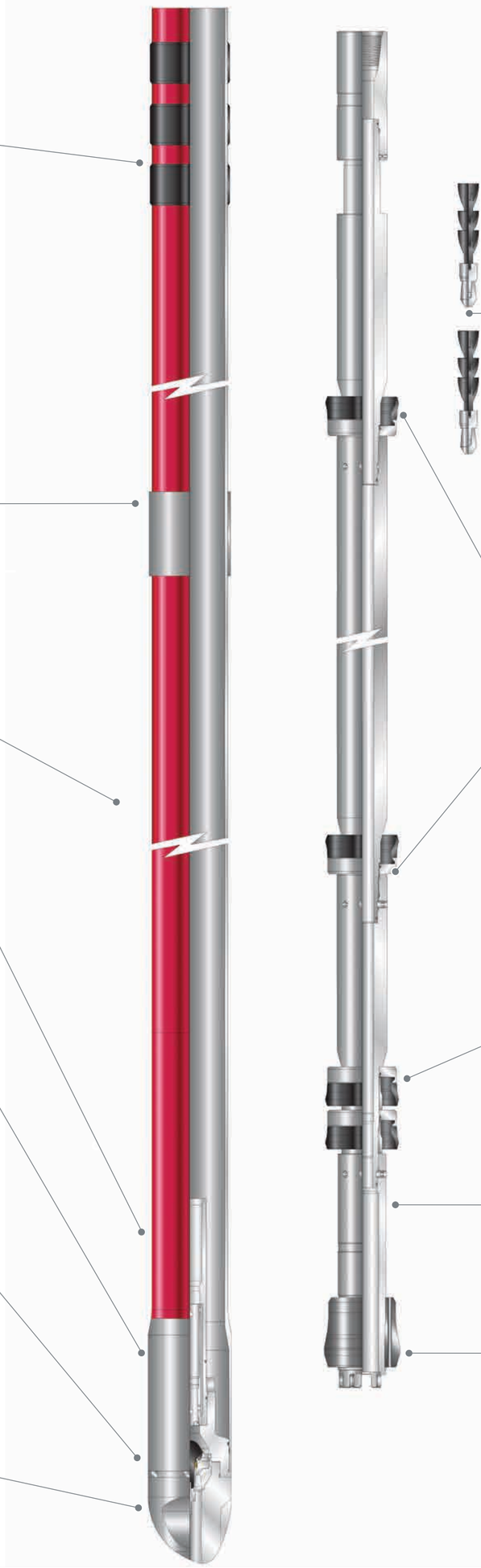
Expandable liner base pipe. Highly ductile and fracture-resistant material improves defect tolerance during expansion and lowers expansion pressure requirements, increasing reliability.

Cone launcher. The cone launcher houses the expansion cone. The reduced diameter and shorter design allow it to run through doglegs, reduce risk of differential sticking, and maximize surge effects.

Protected launcher. Scratch resistant coating is applied to the OD of the launcher to protect it from scarring or damage during run in.

Sure-Seal 3™ float valve. This industry-standard PDC drillable float valve provides added reliability during cementing operations. The optional auto-fill feature allows increased running speed and reduces surge on the formation.

Eccentric guide shoe. The eccentric nose directs the shoe past any openhole ledges to ensure that casing reaches total depth.



Dual pump-down darts. Cement quality is enhanced through the use of dual darts to isolate the cement from the mud and spacer. The upper dart lands to create the primary pressure seal required to initiate expansion.

Upper and lower debris barriers. The debris barriers prevent debris from entering the expansion system to ensure that the system performs reliably.

Seal cups. The redundant seal cups create a positive seal between the expansion system and the expandable liner for improved installation reliability.

Hydraulically driven expansion. The system equalizes expansion pressure between the cone and the seal cups, which reduces the risk of pipe erosion at the cone interface.

Solid body cone. Properly engineering the cone shape eliminates the axial bending experienced with the industry-standard 10° cone. Thus, the post-expanded material properties and connection dimensions are less plastically deformed, which improves performance.

MetalSkin openhole solid expandable systems have innovative features that enhance installation reliability, cement quality, and long-term downhole performance.

MetalSkin® Openhole Solid Expandable Systems

Expanding reliability

Drill and underream hole section.

Make up expandable liner, and hang in rotary.

Stab in workstring and run to depth.

Drop dart and pump cement (if required).

Drop second dart and pressure up to expand liner.

Cone exits top of liner using rig overpull.

Drill out shoe if required and continue rig operations.

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