

# Full-composite Epoxy Sleeve Designed for Strengthening and Protection of Wellhead Casing

Technologically Advanced & Innovative | Effective leak remediation  
Superior casing reinforcement | Verified as per ASME PCC-2

## Redefining Wellhead Casing Repair Technology

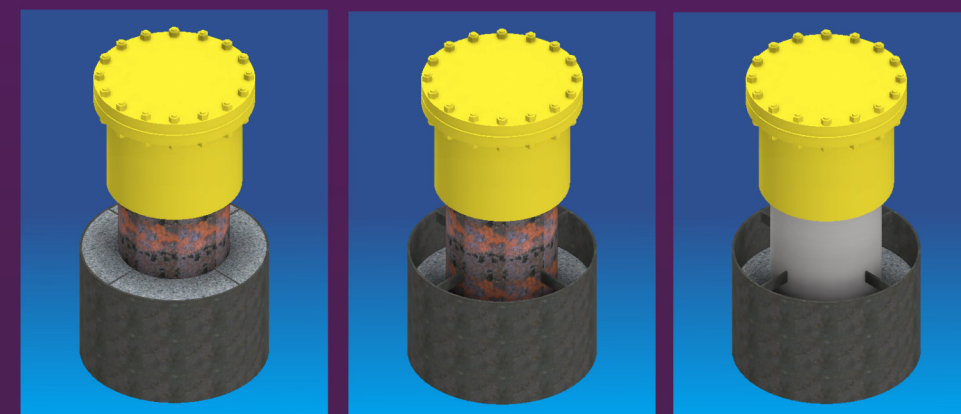
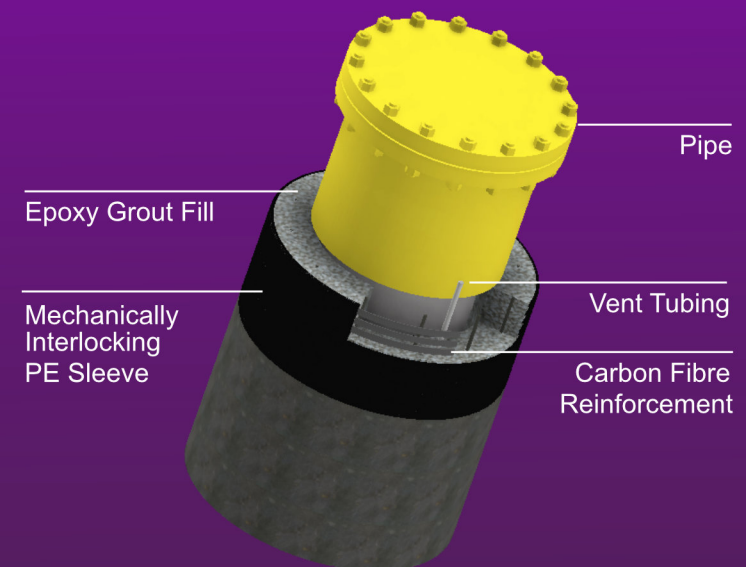
The Helicoid Wellhead Repair Epoxy Sleeve (WRES®) offers a robust solution for well casing integrity. This helically wound strip, constructed from carbon-fiber reinforced, mechanically-interlocking polyethylene (PE), forms a secure annulus (25mm – 300mm) around well casings. When this annulus is filled with our specially formulated epoxy or cementitious grout, it delivers exceptional strengthening and protection against external wall thinning, leaks, parted casings, and collapses. Designed, tested, and certified in accordance with ASME PCC-2 standards, the Helicoid WRES® is the proven choice for reliable external casing repairs.

## Benefits of the Helicoid WRES®

- Enables application directly on-site, adapting to virtually any casing dimension.
- In most scenarios, well shut-in is not required, preserving production schedules.
- Superior casing reinforcement and effective leak remediation
- Provides a verified level of structural integrity prior to critical work-over or Plug and Abandonment (P&A) operations.
- Prevention of further Degradation or Collapse
- Extended well casing lifespan
- Cost-effective repair solution
- Compliance with industry standards



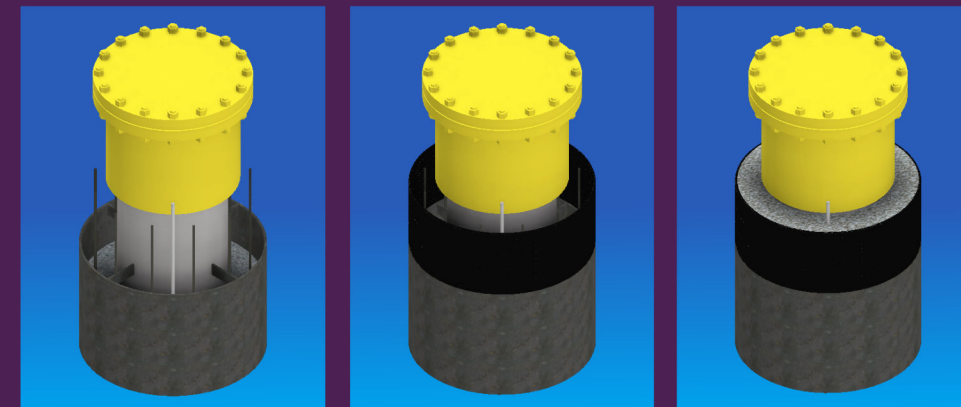
Helicoid WRES®



**A** Existing Well Condition with cement on top of conductor casing

**B** Cement removal

**C** Surface Preparation of well casing and apply leak containment



**D** Install vent tubing to divert gas leaks and to reinforce with carbon fibre rods

**E** Fit and secure the carbon fibre-reinforced HDPE sleeve over the repair area

**F** Inject epoxy grout to bond, seal, and strengthen the repaired section



Repairable Candidates

