

Expandable Casing Patch (XCP)



Product Description:

IPI's Expandable Casing Patch (XCP) combines decades of proven inflatable and metal expandable expertise to deliver a robust, high-performance solution for downhole casing repair and isolation. Engineered with both strength and application flexibility in mind, XCP provides a reliable metal expandable patch system capable of addressing a wide range of wellbore challenges across diverse operating environments.

Through optimized and fully customizable expansion geometry, XCP maximizes post-expansion internal diameter - minimizing wellbore restriction, preserving flow efficiency, and enabling future intervention access. In selected sizes, patch-through-patch capability is achievable, offering additional operational flexibility. Advanced seal designs and elastomer options provide gas-tight integrity, while high-temperature configurations support applications in demanding environments, including geothermal wells up to 600°F (315°C).

Delivered as a true single-trip solution, XCP integrates the running tool and patch into a streamlined, efficient deployment system. Utilizing IPI's proprietary inflatable expansion technology, the casing patch is expanded in a controlled and uniform manner, ensuring precise placement and performance. Full expansion is verified and drifted upon retrieval of the running tool, providing confidence in achieving the required internal diameter and sealing integrity.

Applications:

- ◆ Casing/tubing repair (split/parted/corroded)
- ◆ Water/Gas shut off
- ◆ Leaking coupling or connection
- ◆ Perforation/ ICV shut off
- ◆ Zonal isolation
- ◆ Damaged frac ports or sliding sleeves
- ◆ Damaged sand screen

Benefits:

- ◆ Optimized geometries based on customer requirements
- ◆ Standard temp ratings up to 300°F (150°C), HPHT up to 600°F (315°C)
- ◆ High pressure ratings – burst and collapse
- ◆ Gas tight sealing with premium elastomers
- ◆ Metal to metal sealing capability
- ◆ Flexible with material requirements to accommodate harsh environments (H₂S, CO₂)
- ◆ Patches from tubing sizes up to large casing (13-3/8")
- ◆ Patch thru patch capability on some sizes
- ◆ Shoeless design, a true one trip system

Available Sizes*:

Available in a wide range of sizes from tubing up to large diameter casing.

*For parameters and sizes not listed here, please contact your nearest [IPI Packers office](#) or submit your query using the [contact form](#).

