

HOMCO[®] Casing Patch

Restores casing integrity using a permanent steel seal

Applications

- Repairing damaged collars, leaking casing, unwanted perforations, and worn casing
- Creating a second barrier after cement squeeze jobs
- Isolating leaking downhole equipment

Features and Benefits

- The standard patch reduces the casing ID by just 0.30 in. (7.62 mm), which can enhance the operational envelope, enable larger-sized interventions, and increase subsequent production.
- The single-trip installation eliminates the need for a dedicated drillout run, which reduces risks and costs.
- The patch offers a more reliable, permanent, and predictable solution to restore casing integrity than cement squeezes.
- Multiple casing patches can be set at different depths in a single wellbore.
- In most cases, casing patches can be run through and set below previously installed casing patches.
- Perforation operations can occur directly through a set casing patch.
- The patch can repair most casing weights and sizes. Sizes from 4-1/2 in. to 13-3/8 in. are readily available and larger sizes up to 26 in. are available by special order.
- The epoxy resin coating applied to the casing patch extrudes into any leaks or cavities in the casing wall and acts as a gasket and additional sealing agent.

Tool Description

The HOMCO casing patch is an internal steel liner that comes in various sizes, lengths, thicknesses, and materials. The high-temperature, corrosion-resistant patch is corrugated longitudinally to provide clearance for running inside casing. A fiberglass cloth covering and epoxy resin coating create a reliable seal, with epoxy setting time typically less than 30 minutes for a 20-ft (6-m) casing patch section and full curing within 24 hours. When in position, the patch is expanded hydraulically by pulling a specially designed expander assembly through it. Once expanded, the patch conforms symmetrically to the casing ID and radial compression permanently holds it in place.



The Weatherford HOMCO casing patch restores integrity at any depth.



HOMCO[®] Casing Patch

Specifications

Casing OD	Liner Well	Leak Size		Internal Pressure		External Pressure	
		in.	mm	psi	MPa	psi	MPa
4-1/2 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	2,500 psi	17.237 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	1,700 psi	11.721 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	800 psi	5.515 MPa
5-1/2 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	1,850 psi	12.755 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	1,300 psi	8.963 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	750 psi	5.171 MPa
6-5/8 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	1,200 psi	8.274 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	950 psi	6.550 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	700 psi	4.826 MPa
7 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	1,100 psi	7.584 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	875 psi	6.033 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	650 psi	4.482 MPa
7-5/8 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	1,000 psi	6.895 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	800 psi	5.515 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	600 psi	4.137 MPa
8-5/8 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	900 psi	6.205 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	700 psi	4.826 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	550 psi	3.792 MPa
9-5/8 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	800 psi	5.515 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	650 psi	4.482 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	500 psi	3.447 MPa
10-3/4 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	750 psi	5.171 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	600 psi	4.137 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	450 psi	3.103 MPa
13-3/8 in.	1/8 in.	≤1 in.	25.4 mm	9,850 psi	67.913 MPa	600 psi	4.137 MPa
		2 in.	50.8 mm	4,925 psi	33.956 MPa	500 psi	3.447 MPa
		3 in.	76.2 mm	3,283 psi	22.635 MPa	400 psi	2.758 MPa

* HOMCO is a registered trademark of Weatherford in the US.

