

TechTAC®

Slimline Tubing Anchor Catchers

Downhole Tubing Anchor Solutions

TechTAC® offers a unique solution for anchoring tubing strings in wells where the casing ID has been reduced by a patch

Slimline® Casing Patch TAC

Slimline® Casing Patch TAC Features & Benefits

- ◆ Designed for wellbore casings that have been patched, are swollen, or have a reduced ID due to scale
 - ◆ Can traverse the affected area while still fully setting below it
 - ◆ Leverages innovative mechanics and the unique Slimline® design
 - ◆ Increased flow through the annulus of up to 245%
 - ◆ Sourced and manufactured in the United States
- The patented design of the Slimline® has been shown to:
- ◆ **Reduce gas locking** incidents by directing gas around the anchor
 - ◆ **Limit stuck anchors** by preventing the accumulation of sediment
 - ◆ Dramatically **reduce cutover time**
 - ◆ **Increase pump performance** and longevity
 - ◆ **Minimize scale buildup** by reducing turbulent flow

Slimline® Casing Patch TAC Applications



The Slimline® Casing Patch TAC gives engineers and field personnel more options for anchoring a tubing string within a well casing that:

- ◆ Has been patched with a casing repair sleeve or similar fix
- ◆ Is swollen or otherwise deformed
- ◆ Has a reduced ID because of the buildup of scale or sediment
- ◆ Requires unique and custom modifications to downhole assemblies



What are customers saying about the TechTAC® Slimline®?



“We have one well that had to be pulled every 3 months due to scale. After installing a Slimline TAC, we didn’t need to pull it for 2 years.”

—Sr. Completion Foreman with a U.S.-based oil and gas company



“The combination of the 5.5” Slimline TAC and a gas separator is a top-of-the-line solution for mitigating the issue of gas locking.”

—Manager at a major distributor of artificial lift technology



“Sand was a frequent problem in many of our wells. It would fall on top of a standard TAC and cement the anchor in place. After switching to the Slimline, that problem all but disappeared.”

—Engineer with a large production company operating in the Southern United States

A Solution to a Common Problem

Well casing patches can create unique challenges for tubing anchors. A TAC that is small enough to pass through a patch sleeve usually isn't large enough to be securely set in other portions of the well.

As a workaround, some operators choose to set the anchor above the patch, but this approach may limit the effectiveness of the anchor.

The Slimline® Casing Patch TAC provides an alternative to this workaround. For example, a 5.5” 20 ppf patched casing has a reduced drift of 4.218” compared to 4.653”

for an unpatched casing drift. In that setting, the OD of the Slimline® Casing Patch TAC is 4.0”. Yet despite a reduced OD, the anchor can be fully set using the same setting procedure as the original Slimline®. With that flexibility, operators can set the TAC above or below the casing patch, based on each well's ideal design.

The Slimline® Casing Patch TAC is available in a variety of sizes based on the unique requirements of each patched well. To learn more, contact the TechTAC® team at 435-781-1675 or visit www.techtacco.com.

Slimline® Sizes and Specifications

Nominal Casing OD	Applicable Casing Weights	Model	Max Tool OD	Flow-By OD	Tool ID	TAC Cross-Sectional Area	Casing Cross-Sectional Area	Annular Flow-By Increase (Slimline compared to standard TAC)
(inches)	(lb./ft.)		(inches)	(inches)	(inches)	(sq. inches)	(sq. inches)	(%)
4.5	9.5 - 13.5	Standard	3.75	3.75	2.00	11.04	12.90 w/ 10.5 ppf casing	
	9.5 - 15.1	Slimline	3.70	2.875	1.00	6.49	12.90 w/ 10.5 ppf casing	245%
5	11.5 - 18	Standard	4.00	4.00	2.00	12.56	15.25 w/ 15 ppf casing	
	11.5 - 18	Slimline	4.00	3.75	2.00	11.04	15.25 w/ 15 ppf casing	57%
5.5	13 - 23	Standard	4.50	4.50	2.40	15.90	18.8 w/ 17 ppf casing	
	13 - 23	Slimline	4.50	3.75	2.00	11.04	18.8 w/ 17 ppf casing	168%
7	20 - 38	Standard	5.50	5.50	2.48	23.76	30.04 w/ 29 ppf casing	
	23 - 35	Slimline	5.75	4.50	2.40	15.90	30.04 w/ 29 ppf casing	125%
7.625	20 - 39	Standard	6.25	5.50	2.48	23.76	37.09 w/ 29.7 ppf casing	
	24 - 39	Slimline	6.40	4.50	2.40	15.90	37.09 w/ 29.7 ppf casing	59%