Other Self-Locking Designs

Dual-Lok®

- Vespel® Locking Insert
- High Temperature Capability
- Dual Locking Surfaces

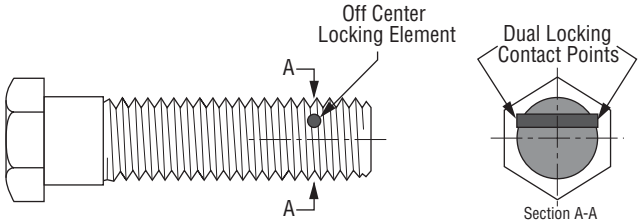
Totally New—Totally Unique

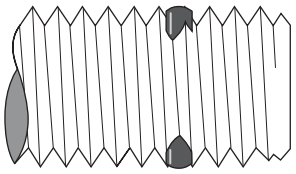
First, what is it? The patented Dual-Lok process is a newly developed self-locking feature designed specifically for use in higher temperature applications. Using Vespel® inserts as its locking element, Dual-Lok fasteners have the capability to withstand high to low temperature cycling (-450°F to +500°F) throughout at least 15 removals. Dual-Lok fasteners meet all of the requirements of IFI 124, IFI 524 and MIL-DTL-18240.

The Dual-Lok design incorporates a specially formed locking element pressed into an off-center through-hole prepared in the threaded section of an externally threaded fastener. This unique design provides these features:

- Positive insert retention and no glue required.
- Advantage over pellets due to smaller drill hole and element diameter required to develop torque due to having two locking surfaces exposed.
- Prevailing torque performance meeting the requirements of MIL-DTL-18240
- Withstands high temperature requirements for non-metallic self-locking elements.
- Withstands high vibratory and stress conditions placed on external threaded parts.

Every project is special. After discussions between Long-Lok Technical Service personnel and your engineers, a torque requirement specification will be established and a formula developed for your company's individual needs for the Dual-Lok process.





Enlarged top view reveals the off-center, dual Vespel® locking nodes.

See for Yourself

Send us a sample of your part or fastener, along with a brief description of its application and performance requirements, and we'll process it using the most appropriate Long-Lok thread locking or sealing method. Or, to sample a standard Long-Lok fastener, simply supply us with a Part Number. Samples are provided free of charge. Call your nearest Long-Lok facility for assistance.