

STAY TIGHT V-LOK NUTS



SICK OF YOUR INSULATORS ENDING UP LIKE THIS?

V-LOK Nuts will keep your insulators upright, how they're meant to be.



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V-LOK NUTS

WITH PATENTED ANTI- LOOSENING THREAD

V-LOK is a patented screw-thread technology with a proven anti-loosening function when paired with normal screw thread technology. V-LOK has been tested to NAS 3350 (maximum vibration) and DIN 65151 (change in axial force). V-LOK nuts are manufactured in a similar way to standard nuts and are designed to be used in place of standard nuts in any application.



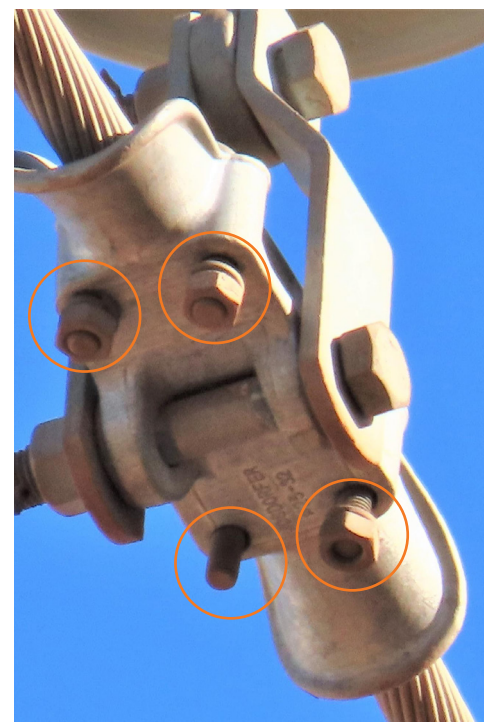
V-LOK nuts consist of two parallel crests next to each other on the same ridge. These two crests induce double contact lines (locking points) between threads when paired with standard bolt threads. They maximize the static friction force between the bolt and nut threads and prevent loosening.

V-LOK prevents bolts and nuts from loosening due to mechanical impact or vibrations, including Aeolian vibrations, thermal expansion due to thermal load cycling, overheating of joints, expansion due to corrosion etc.

Nut has worked itself loose

PRINCIPLE OF V-LOK

The screw thread of V-LOK consists of two tangential parts (the first and second tangential parts) to induce double-contact point locking with the other object with a common screw thread. It maximizes the friction force between the bolt and nut screw threads through double-contact points and performs an anti-loosening function.



Loose and missing nuts on a 220kV line, after 8 months in service.

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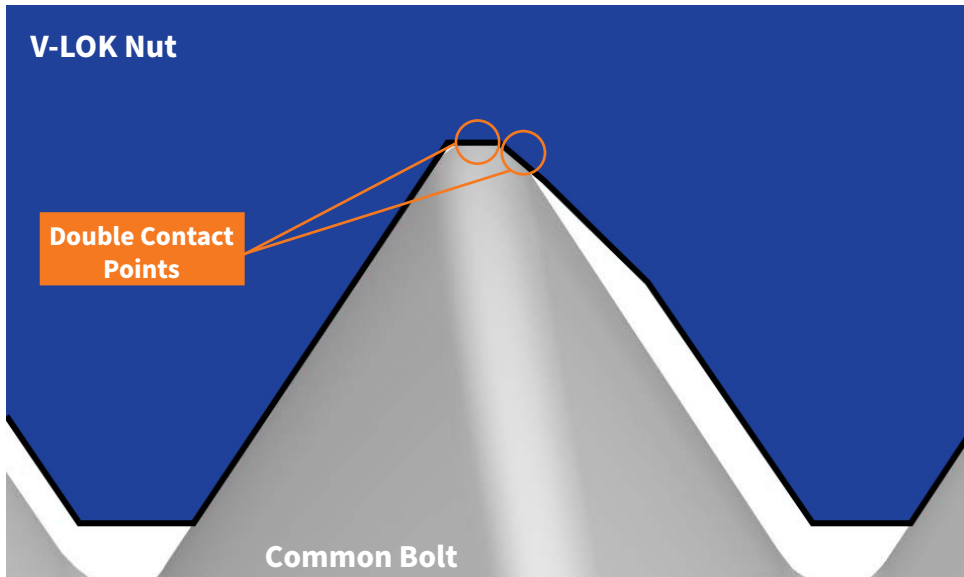
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HOW THEY WORK:

V-LOK components don't depend on pressure, they rely on strong static friction that is initially created by the double contact lines between the threads. The dual contact lines (crests) double the already strong static friction, which is the key. Secondly, these two 'parallel static frictions' interact and interlock with each other, which further prevents loosening. It means that if one contact line of the two shows slightly reduced static friction the other contact line will still maintain a strong static friction and prevent loosening. In other words - it is highly unlikely that both contact lines would reduce or lose the strong static friction at the same time.

Perfect solution for any situation where a nut is used; i.e steel support structures, crossarm braces, insulator pins, suspension clamps etc.



V-LOK NUTS

WITH DOUBLE CONTACT POINTS



BENEFITS:

- Improved reliability (SAIDI, SAIFI) and resilience
- Improved public and personnel safety
- Reduced energy losses due to bad connections
- Reduced losses and damage to property due to unnecessary electrical and mechanical failures
- Reduced likelihood of bush fires
- Significant cost savings on maintenance and preventable faults
- Positive environmental effect
- V-LOK nuts are reusable
- No need for special tools making them faster and more cost effective
- Can be used in both electrical and mechanical connection

HOW TO ORDER V-LOK NUTS:

Choose between Hot Dipped Galvanised or 316 Stainless Steel in the table below.

HOT DIPPED GALVANISED NUTS		
Cat No.	Size / Thread	MOQ / Pack
V-LOKNUTM10HDG	M10, 1.5p	1 / 100
V-LOKNUTM12HDG	M12, 1.75p	1 / 100
V-LOKNUTM16HDG	M16, 2.0p	1 / 100
V-LOKNUTM20HDG	M20, 2.5p	1 / 100
V-LOKNUTM24HDG	M24, 3.0p	1 / 100

316 STAINLESS STEEL NUTS		
Cat No.	Size / Thread	MOQ / Pack
V-LOKNUTM10316SS	M10, 1.5p	1 / 100
V-LOKNUTM12316SS	M12, 1.75p	1 / 100
V-LOKNUTM16316SS	M16, 2.0p	1 / 100



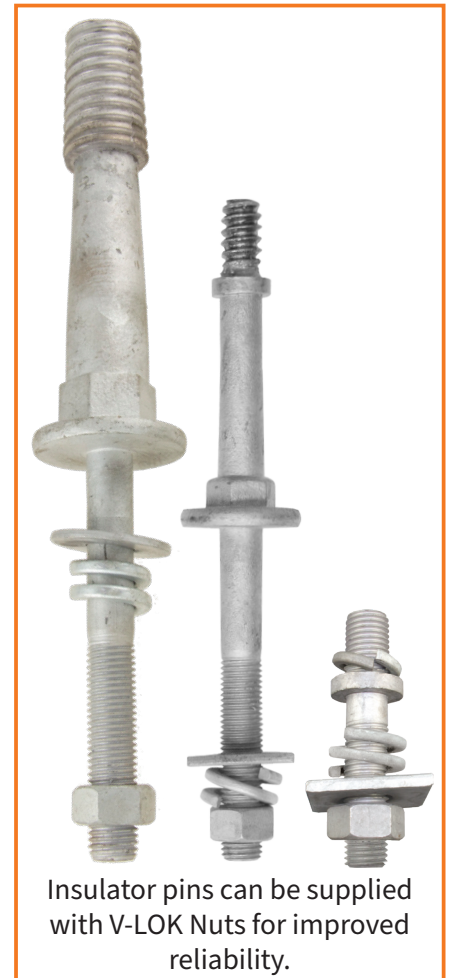
Proud to be a 100% New Zealand Owned & Operated Company

STAY TIGHT INSULATOR PINS SUPPLIED WITH V-LOK NUTS

Why not have your insulators and insulator pins supplied with V-LOK nuts included?

We've done the hard work. All of our insulator kits and pins are available with V-LOK nuts. Simply order from the codes listed below.

Reducing maintenance, and faults with V-LOK technology on your insulator pins can help improve efficiencies, reduce costs and improve the overall reliability of your network.



Cat No.	Description	To Fit	MOQ / Pack
USC006-DH-VL	GALV 5/8" PIN M16X255mm DH	510/511 LV INSULATOR	1 / 50
USC006-DH+WASHER-VL	GALV 5/8" PIN M16X255mm DH C/W NYLON WASHER	510/511 LV INSULATOR	1 / 50
J211CZS-VL	GALV NYLON HEAD PIN M20x267mm DH	1130W 11kv INSULATOR	1 / 25
UM142-B-1-DH-VL	GALV LEADHEAD PIN M20 X 280MM DH	1130W 11kv INSULATOR	1 / 25
C200-11-20MM-DH-VL	GALV PIN PAT C PIN M20X165	ALP22/450 22kv INSULATOR	1 / 12
C200-00-24MM-DH-VL	GALV PIN PAT C PIN M24X165	ALP22/450 22kv INSULATOR	1 / 12
CN6147-000-VL	GALV STUD M20X200MM	33kv EVA POST INSULATOR	1 / 25
CN6148-000-VL	GALV STUD M20X70MM	33kv EVA POST INSULATOR	1 / 45

Note: DH = Double Helix Washer
Note: VL = Includes V-LOK Nut



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ENVIRONMENTAL CERTIFICATIONS
ISO 14001 and ISO 14064-1