800-6-2004 Needle Valve Lock Off Device (NVLO)

Description:

NVLO is an anti-tamper device designed to prevent unauthorised operation of instrumentation valves.

NVLO has a unique patented free-spinning design in order to secure needle valves from unauthorised or accidental use.

NVLO is made of non ferrous zinc alloy (to prevent rusting) and uses a patented magnetic locking system that is fully weather and tamper proof. Unlike other security devices NVLO can be keyed alike so that multiple valves can be secured with the convenience of having only one key.

Technical Specification

- Magnetic key is coded to match the lock. Sliding a magnet into the recess will not defeat the lock.
- 2 Keys per lock
- 8 unique codes available
- No electrical circuitry
- No radio frequency generated
- Spare Parts: None Applicable

Features

- Prevent tampering
- Safeguard against vandalism
- Safeguard against unauthorised used.

NVLO works by replacing the valve handle with a lockable replacement, which is key operated.

NVLO can be fitted in just a few minutes using a bespoke stem adaptor.
Fitting Instructions

1. Remove existing valve handle.
2. Place adaptor over valve stem.
3. Secure the adaptor in place using the 2.5mm allen key.
4. Rotate the Tap Lock head onto the adaptor.
5. Tighten the grubscREW (2mm Allen Key)
6. Unlock the device using the magnetic key and operate the valve normally.

Operating Principals

When the key is removed, the locking head (green) spins on the valve but doesn’t turn the valve.

When the key is inserted the coded magnet engages the drive mechanism. Turning the locking head (green) now turns the valve.

Environmental Testing

<table>
<thead>
<tr>
<th>Environment</th>
<th>Climate</th>
<th>Analysis</th>
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</thead>
<tbody>
<tr>
<td>Big Bear Mountain, CA (Cold, High Altitude, Rain, Snow and Ice)</td>
<td>Annual high temperature: 62.5°</td>
<td>Needle Valve Lock was tested at months 1, 3, 6, and 12. It was found to have no signs of corrosion and remained operational at all testing periods.</td>
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<tr>
<td>Oxnard, CA (Moderate, Humid, Salty Air)</td>
<td>Annual high temperature: 69.3°</td>
<td>Needle Valve Lock was tested at months 1, 3, 6, and 12. It was found to have no signs of corrosion months 1, 3 and 6, very minimal rust appeared after month 12 where inner and outer sections meet. Needle Valve Lock remained operational at all testing periods.</td>
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<tr>
<td>Barstow, CA (Hot, Dry, Desert Climate with High Winds)</td>
<td>Annual high temperature: 78.8°</td>
<td>Needle Valve Lock was tested at months 1, 3, 6, and 12. It was found to have no signs of corrosion and remained operational at all testing periods.</td>
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