

## (Valve) Cover Story

Use of Technofasts' HiTemp HydraNuts has saved a North American Utility many thousands of dollars in reduced time and labor costs.

These hydraulically actuated nuts are fitted as direct replacements for standard nuts on HP main governor valves.

In this case, the 32 HiTemp HydraNuts are interconnected and pressurized simultaneously. This gives an evenly applied load over the full gasket area and ensures that bolts are correctly loaded.

The previous method of torque tightening the bolts was time consuming and labor intensive, taking up to two shifts to complete. **Utilising the HydraNuts, the whole job is completed in less than 90 minutes.**

**Subsequent removals after 18 months in service carried out in around 1 hour.**



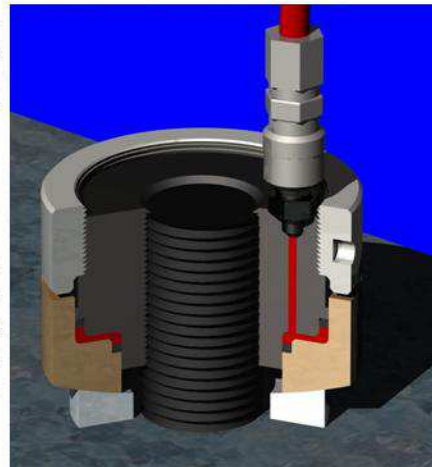
HiTemp HydraNuts are so called due to the unique patented seal designs capability to be energized after thousands of hours at the working temperature of 550 deg F (265C). Ease of removal is assured. This can be a major problem on bolts which have been torque tightened, due to galling and pick up of threads.

HydraNuts do not apply torsional stresses to the bolts, thus preventing galling or pick up damage to critical bolts.

## How does it work?

The HydraNut is screwed into position onto the valve cover face. The quick connect coupling is connected and pressure is applied by a hydraulic pump.

The hydraulic force applied equals the pressure times the hydraulic area and is therefore a known load. The bolt is stretched and the locking is wound down to seat on the top face of the piston. The hydraulic pressure is released and the hose is disconnected.



### Benefits:

- *Fast*
- *Accurate*
- *Simple*
- *Safe*

  
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