

## Nuclear ERSV, MSR/V and MSIV's.

Use of Technofasts' HiTemp HydraNuts is saving a North American Utilities many thousands of dollars in reduced time, labor and exposure costs.

These hydraulically actuated nuts are fitted as direct replacements for standard nuts on Nuclear Island valves.

The HiTemp HydraNuts are interconnected and pressurized simultaneously in one operation. This gives an evenly applied load over the full gasket area and ensures that bolts are accurately and evenly loaded.

The previous method of torque tightening the bolts was time consuming and labor intensive, taking up to two shifts to complete.

**In one case, utilizing the HydraNuts, a Target Rock valve has been bolted up in less than 30 minutes.**

**In all, 7 valves were tightened by 2 men in less than 3 hours—a terrific saving in labor and exposure costs.**

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 600deg F(316C).



Ease of removal is assured. In the past, disassembly has been 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 these critical bolts.

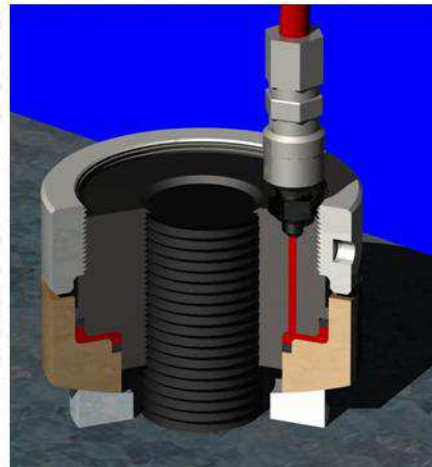
**HydraNuts are manufactured from certified materials in North America for these safety related applications.**



## 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, taking only minutes to apply.



### Benefits:

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

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