

# PRODUCT INFORMATION

Product Bulletin No.: 81745999

Rev. 0

Motion Compensation

**Date:** 24-Sep-2014

- Subject:** HP Fluid Filtration Unit now available as a part of NOV drilling packages.
- Product Model:** NOV N-Line Tensioner Systems: NRT-1800, NRT-3600 and NRT-4200
- Affected Assemblies:** Cylinders and accumulators, as well as other equipment negatively affected by high number of particles in the hydraulic fluid.
- Objective:** Information on new equipment available for filtering hydraulic fluid in High Pressure systems.
- Issue:** Keeping hydraulic fluid clean has always been a major concern for rig-operators worldwide. It has been shown several times how fluid particle contamination can drop life expectancy on seals, gaskets, wear bands and cylinders. All NOV hydraulic equipment are delivered with cleanliness class ISO 4406:99 17/15/12 (NAS 6) and cleanliness during operation should not drop below ISO 4406:99 19/17/14 (NAS 8). Experience has shown that this requirement is hard to obtain and in many situations today the equipment must be shut down in order to perform a full particle filtration of the hydraulic fluid. This is not only time consuming, but also dramatically reduces the number of operating days, with subsequent loss of profit.
- Solution:** NOV has designed a solution for filtering hydraulic fluid that does not require shutdown of any components as the filtering is done continuously inside the high pressure loop. Installing this fluid filtration unit will reduce downtime because of maintenance. Also the hydraulic fluid will be less prone to particle contamination, thus reducing the risk of equipment malfunction.



*Prototype of Fluid Filtration Unit*

**Ordering Information/  
Contact Information:**

Please contact your local National Oilwell Varco (NOV) Service Center, with reference to PB 81745999 for further assistance.

**Economical and Cost Issues:** Contact your nearest NOV Sales representative to get a quote on this unit with all required installation-/hook-up parts and documentation.

**Failure to follow the recommendations and/or guidance in NOV Product Bulletins may result in death, bodily injury or property damage.**

Please contact your local National Oilwell Varco (NOV) Service Center if you have any questions regarding this bulletin.