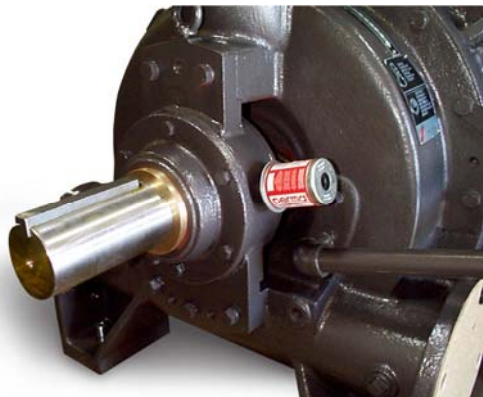


# Bearing Protection Option Provides Maintenance-Free Service For Three Years

# Technical Bulletin



3 Year Bearing Package Assembly



Automatic Lubricator, Bearing Isolator,  
Synthetic Lubricant

## Available on all Vooner FloGard® liquid ring vacuum pumps.

When incorporating an isolated bearing design, Vooner FloGard® pumps provide a re-lubrication schedule that extends to 36 months or more — significantly longer than standard industry intervals. The result: dramatic savings in bearing-related expenses.

The unique design features a non-contact metallic bearing isolator comprised of a stator, press fitted into the pump bearing housing, and a rotor that fits axially into the stator. This rotor revolves with the shaft and is held in place by elastomeric static drive rings.

A labyrinth pattern in the stator keeps a special synthetic lubricant in the bearing housing while centrifugal force and gravity combine to shield the bearings and lubricant from contaminants.

A unique automatic lubricator, that requires no external connections or adjustments, supplies a continual, precisely controlled flow of fresh lubricant to the bearing interior. The special design of this lubricator assures that the bearings will never be over or under lubricated for the three year design period.

## Reduces bearing related downtime

The design of this three component system consisting of bearing isolators, synthetic lubricant and automatic lubricators virtually eliminates the three major causes of bearing failure: over-lubrication, lubricant loss and contamination of the lubricant in the bearing chamber.

Compared to conventional petroleum-based lubricants that often break down after only a few months, the aluminum complex synthetic lubricant used in this system offers major advantages:

- Superior shear resistance
- High temperature performance
- Outstanding oxidation stability
- Extremely low evaporation

Instead of rubber lip seals that often lose effectiveness after on 2,000 or 3,000 hours on the job, bearing isolators are engineered to outlast the bearings they protect (with an average L-10 rating of over 100,000 hours).

The retained efficiency that results from stainless steel pump construction, combined with superior bearing protection, means Vooner FloGard liquid ring vacuum pumps will last longer while needing less maintenance.



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