



**TUTHILL**  
**Vacuum & Blower Systems**

4840 West Kearney Street, P. O. Box 2877  
Springfield, Missouri USA 65801-2877  
Tel 417 865-8715 800 825-6937 Fax 417 865-2950

## **TECHNICAL BULLETIN #38**

### **SEAL RECOMMENDATIONS FOR AF PUMPS IN PLASTIC EXTRUSION APPLICATIONS**

AF Liquid Ring pumps are popular in the plastics extrusion industry. These pumps are incorporated into a wide variety of machines for plastics, rubbers, PVC and others.

With the more aggressive applications such as like Compounding and Sizing Tables, we have noticed some failures in our standard Buna mechanical shaft seal.

While it is ultimately up to the customer to choose an elastomer compatible with the process, we have found that upgrading to Viton® is a wise choice in most cases.

Therefore, TVBS recommends the usage of Viton for all AF pumps used in extrusion applications.

For Cast Iron/Bronze, All Bronze, and All Iron pumps, Viton is a non-standard material for the mechanical seal and must be specified by the customer.

For Stainless Steel and Ni-Resist pumps the Viton seal is standard for the pump.

Please contact TVBS Engineering Department with any questions.

Regards,  
Tuthill Vacuum & Blower Systems Engineering Dept.

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