



# Solutions To IK Problems

**Problem:**      **Feedtube locknut removal and proper positioning for feedtube gasket compression**

**Issues:**      Difficulty removing due to galling of threads  
Proper positioning for feedtube gasket compression once fully assembled into valve  
Notch alignment for poppet valve studs  
Different feedtube plate arrangements require different locknut locations

**Solution:**      **Replace threaded feedtubes with Clyde Bergemann, Inc. Split -Ring design**

**Advantages:**      No threads to gall  
No measuring or trial and error guessing for gasket compression  
Bolt-on replacement item and includes new feedtube plates

The standard Diamond Power feedtube is held in place with a locknut. The locknut is notched to fit inside the poppet valve studs and must be located in a position, which will allow feedtube gasket compression. Two versions of feedtubes plate arrangements exist and each requires the locknut to be threaded onto the feedtube a specified amount. The process can be slow and troublesome, as proper sealing of feedtube gasket is not known until sootblower is cycled.

The other challenge of the threaded feedtube is removal of the locknut after being in service a while. At times an entire feedtube is replaced due to the inability of removing the locknut.

The Clyde Bergemann, Inc. "Split-Ring" design eliminates the trial and error guessing and measuring for gasket compression. The 2- piece split ring fits into counter bored feedtube plates and locates the end for perfect gasket sealing everytime.

When ordering, just say "SPLIT -RING" style!

**CLYDE BERGEMANN - Advanced Boiler Cleaning Solutions!**

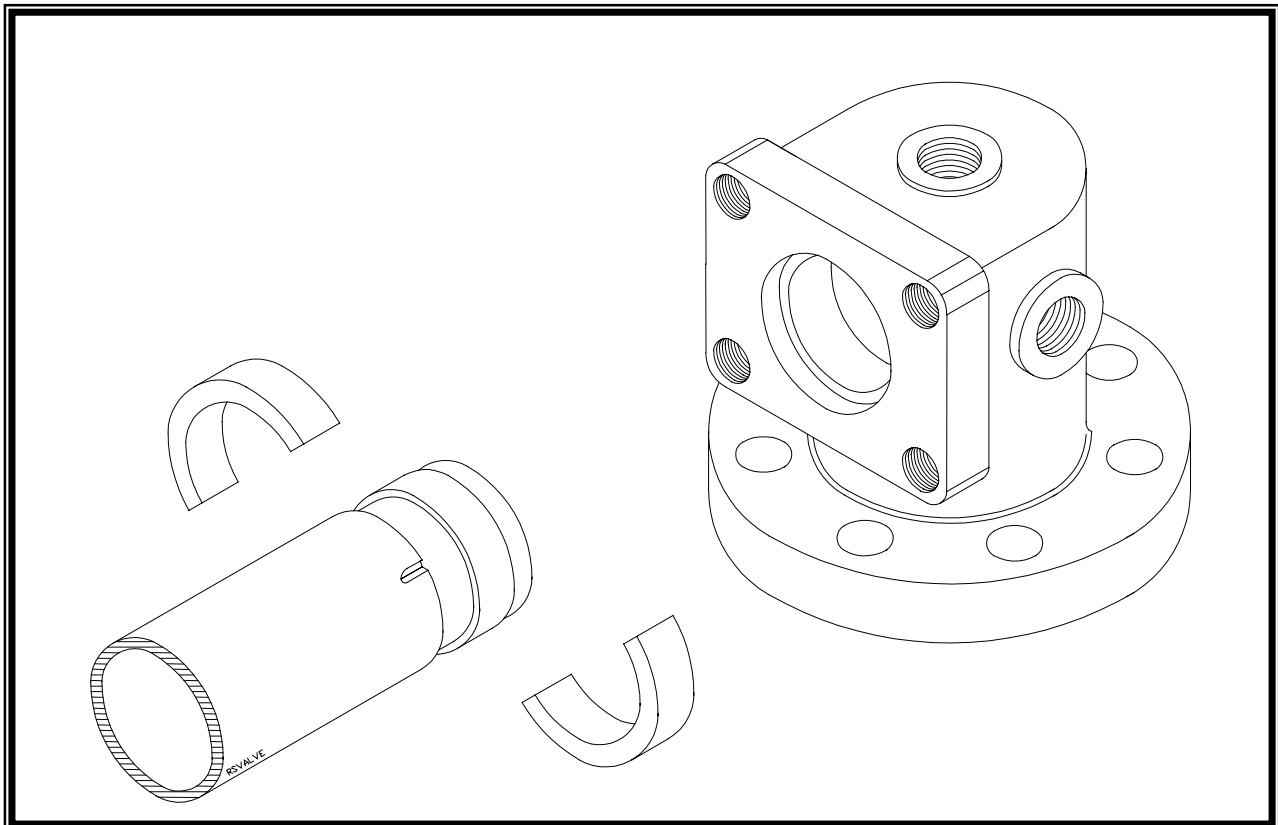
*Clyde Bergemann, Inc., 4015 Presidential Parkway, Atlanta, GA 30340  
Phone: (770) 557-3600. Fax: (770) 557-3641. Toll Free (800) 241-5996*

**Eliminate leaks, increase feed tube service life and improve sootblower maintainability with the**

## **SPLIT-RING FEEDTUBES**

From CLYDE BERGEMANN, Inc.

Unique split-ring design assures correct gasket compression for leak-proof sealing. Two-piece ring construction provides improved maintenance efficiency and assured long life. Available in both 2 3/8" and 2 3/4" diameters, insulated and non-insulated and hard chrome plated. Please call **(800) 241-5996** to place an order. All that is required for production of this feed tube is the travel or overall length of the sootblower.

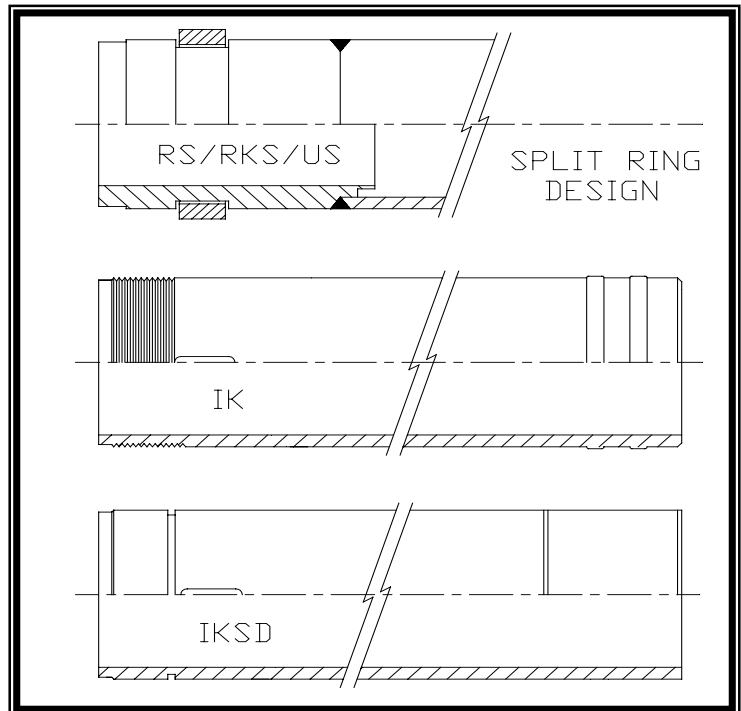


# Feed Tube Improvements

Clyde Bergemann offers an upgraded feed tube design for Diamond Power® long retractable sootblowers. This Clyde Bergemann design eliminates the threaded feed tube (w/lock-nut) and the retaining ring style feed tubes offered by Diamond®. The threaded feed tube installation arrangement utilizes a locknut to locate and properly compress the feed tube gasket into the poppet valve. Over time the heating and contracting of the feed tube will seize the feed tube locknut making it almost impossible to remove. In many cases feed tubes are replaced because of this inability to remove the locknut. The retaining ring used on the IKSD blower has also been plagued with critical problems, such as popping out of the groove during operation. As an answer to these problems, Clyde Bergemann offers the advanced split ring design to retrofit to all Diamond® long retractable sootblowers. A counterbored feed tube retaining plate is the only modification needed to make this product improvement. This retaining plate is supplied free of charge with the new feed tube. The split ring design feed tube has been used successfully on the Clyde Bergemann line of long retracts for many years.

## Benefits of the Clyde-Bergemann Split Ring Feed Tube Design

- %o The conversion cost for this proven design is low.
- %o Feed tubes that were previously thought to be unusable may be repaired.
- %o The split ring design provides precise gasket seating without time-consuming trial & error.
- %o The split ring design is heavy duty for long life.
- %o The split ring design is inherently safer than the retainer ring design.
- %o There are no threads to be damaged.



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Form: SR Feed Tube  
Rev: 4/99