

# RAUSCH Electronics USA, LLC



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## **Specifications for Point Repair System “QuickLock”**

### **Description**

Quick Lock is a strictly mechanical point repair system for the inside repair of pipes. *No additional resin is used!* Application range is from 6 inch to 28 inch pipe diameter. The components consist of a V4A stainless steel sleeve, covered by an EPDM compression seal. This system can be used for all common sewage, well and drinking water piping systems.

### **Materials**

The Quick Lock sleeve body is made of V4A stainless steel in grade 1.4571. Stainless steel of this grade shows high corrosion resistance. Quick Lock has been designed for the use mainly in municipal sewage. When intended for industrial sewage, its corrosion resistance has to be evaluated, prior to this specific application.

The thermosetting EPDM rubber gasket is a proven component for the application in municipal sewage. EPDM distinguishes itself by excellent physical properties and resistance against aging, ozone, atmospheric conditions and environmental influences, alkalines and various leaches and chemicals.

### **Patented Locking Mechanism**

Two tooth strips are punched into the left and right side of the sleeve. In each tooth strip, there is a locking and gear mechanism, guiding the sleeve sheet while being installed. After reaching maximum compression pressure, the gear is permanently locked.

The distance between tooth groove and tooth tip is one click. That means the maximum possible return stroke from tooth tip to the next lower groove may cause a maximum diameter reduction after compression of only about 0.025 inch, independent of the nominal size. Therefore, the locking mechanism operates in an almost infinitely-variable way.

### **Installation**

The installation is very simple and can be performed by occupying only one manhole. QuickLock can be installed with flow, as there is NO resin involved, which could be flushed out or needs air to cure. QuickLock packers are hollow, allowing the flow go through the packer without backing up sewage.

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## Applications

- Pipe cracks, root control, abandoning laterals, joints sealing
- For most pipes without an inner coating (ductile may work, depending on condition)
- For inner pipe pressure up to 100psi (requires special EPDM seal)
- Maximum allowed pipe offset ½ inch (larger offsets require two sleeves)
- Common municipal sewage - for industrial wastewater check with us prior to installation
- Seamless installation (overlapping)

***Not to be used when parts are intruding or in collapsed pipes! Pipe must be cleaned prior to installation! No solid objects in pipe!***

## Warranty

RAUSCH offers a standard 40 year warranty on the materials, when used in common municipal sewage conditions.

If any generic packer, other than the original QuickLock packer is used for the installation, there is No warranty on the installation itself, or on the proper functionality of the locking mechanism.

## Current Certifications

QuickLock holds certifications from DIBt, Zulassung Nr. Z-42.3-374 and from WRc, number PT/283/0609.

QuickLock has already been installed by many municipalities and contractors throughout the US. Worldwide, approximately 30,000 sleeves have been installed so far.