



Drainage & Pressure Pipeline Repair Systems



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**STRUCTURALLY TESTED LONG LASTING SEAL
100 YEAR SERVICE LIFE WITH 10 YEAR LIMITED REPLACEMENT WARRANTY**

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Drainage & Pressure Repair

Technical Information

Expandable sleeves used for trenchless Structural & Infiltration repair of all material types of Live Stormwater & Sanitary Sewers and Pressure pipelines. Installation & curing time is 20 minutes

- Host pipe inside diameter: 100mm to 1200mm
- Sleeve length: 200mm to 900mm
- Pressure rated up to 90 bar, meeting AWWA M11 Standard for Flexible Tunnel Liners. Factor of Safety is at least 2.5 on total loads
- Stainless Steel (316) & Polyurethane grout or rubber jacket
- Potable water safe, Well & Gas liners, Square & other shapes are also available

Types of Repairs

Longitudinal / Circumferential Cracks

Cracked / Offset / Separated Joints

Fractures / Holes / Areas of Corrosion

Infiltration / Ex-filtration / Root Control

Broken / Collapsed pipes

Replacement of missing pipes

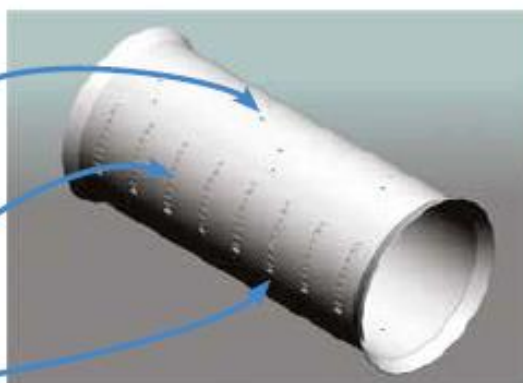


Sleeve Design & Installation

Perforations in Ratchet Sleeve to equalize operating pressure from both sides of the Sleeve

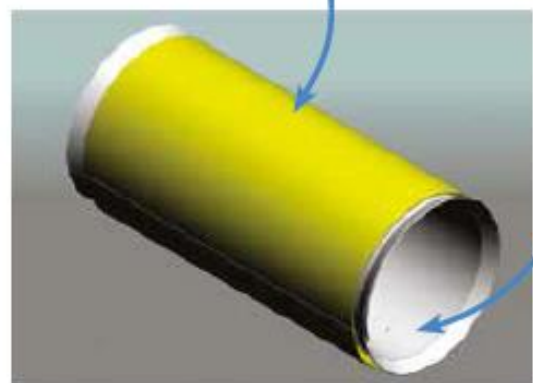
Ratchet Locking Mechanism

Ratchet Lock



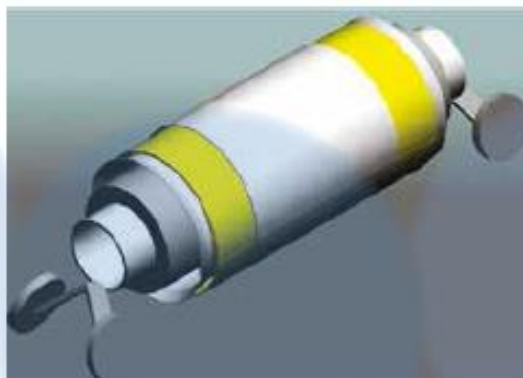
Polyurethane Grout or Rubber Jacket

Stainless Steel Core



The Plug is inserted into the Sleeve, and Sleeve is centered on the Plug

The plug is then inflated *very slightly* to hold the SLEEVE firmly on the Plug



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Drainage & Pressure Repair

Technical Information

Expandable sleeves used for man entry Structural & Infiltration repair of all material types of live Storm and Sanitary Sewers. Installation & Curing time is 30 minutes

- Host pipe inside diameter: 750mm to 4000mm
- Sleeve length: 300mm to 900mm
- Pressure rated up to 20 bar
- PVC sleeve with elastic membrane (Pressure), Polyurethane or cementitious Grouts (drainage)
- Other shapes e.g. oval are also available

Types of Repairs

Longitudinal / Circumferential Cracks

Broken / Collapsed pipes

Fractures / Holes / Areas of Corrosion

Infiltration / Ex-filtration

A single Sleeve can be installed to repair local damage or in a Continuous formation

Sleeve Design & Installation

Step 1: Collapsed Sleeve delivered to the Leaking / Separated Joint

Step 2: Sleeve is jacked into position until it snaps shut & is compressed to the Host Pipe

Step 3: Sleeve is then Grouted onto the host pipe through ports in sleeve (Drainage applications only)

Host Pipe

Separated Joint



Elastic Membrane (Pressure)

O-Rings

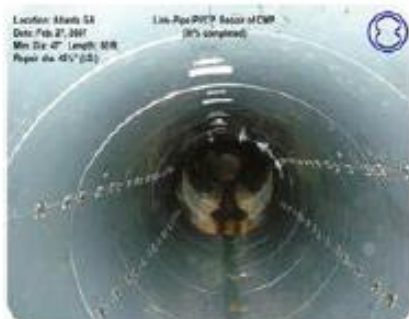


Crown Segment

Vertical Hydraulic Jack

Elastic Membrane

Collapsed PVC Sleeve



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