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- A photograph of a worker in a white protective suit, helmet, and safety glasses, working inside a large, dark pipe. The worker is positioned on the right side of the frame, leaning forward and touching the inner wall of the pipe. The pipe's interior is dark and metallic, with a circular opening visible in the background. The worker's suit has a harness and a headlamp attached to the helmet.
- ▶ **Bespoke sealing solutions for concrete, steel, ductile iron, clay, plastic and GRP pipes**
  - ▶ **Diameters available from DN185 to DN3500MM**
  - ▶ **Withstands internal pressure up to 20 bar**
  - ▶ **Suitable for industrial water, potable water, waste water, fuel & gas**
  - ▶ **Can also be used for end liner sealing**



The original permanent  
**no-dig** pipe repair seal.

### Fully installed in as little as 40 minutes!

Since the 1960's VIP-Weco internal pipe seals have been used worldwide for trenchless rehabilitation of pipes and sewers for industrial water, drinking water, waste water, fuel and gas.

VIP-Weco use WRAS approved material, comply fully with BS6920 and have a typical life expectancy of 50+ years

During the installation process, rubber sleeves made of EPDM or NBR compounds are applied over the damaged area of the inner wall of the pipe. The rubber sleeve is then held in place by stainless steel retaining bands allowing up to 20 bar of internal or up to 2.0 bar of external pressure.

Once the VIP-Weco is installed, a safe, durable and low-cost mechanical sealing solution is achieved. Typical installation time of circa 40 minutes per seal.

For special applications such as longitudinal cracking or where aggressive chemicals are used, we develop bespoke sealing solutions.

### We can also provide:

- ▶ Pipeline repair & rehabilitation consultancy services
- ▶ Installation and testing of VIP-Weco seals where required
- ▶ Training and accreditation for third party installation of the VIP-Weco sealing system

Aligning the sleeve



Lubricant application



Inserting retaining band



## VIP-WECO NO DIG PIPE REPAIR SEALS

### VIP-Weco Configurations - available in 280mm or 480mm wide

▶ External pressure option 1



Internal pressure: 20bar  
External Pressure: 0.4bar

▶ External pressure option 2



Internal pressure: 20bar  
External Pressure: 0.8bar

▶ External pressure option 3



Internal pressure: 20bar  
External Pressure: 2.0bar

▶ End liner sealing application



Configurations are available in options 1-3 for end liner sealing applications.

▶ Extra wide configuration



For use when the affected area is wider than 480mm.

### Advantages of the VIP-Weco system

- ▶ Reduced supply interruptions due to quick installation
- ▶ Significant reductions in excavations because depending on the pipe diameter, pipe access is only required every 150-400m
- ▶ The VIP-Weco system can be used with almost all pipe materials (concrete, steel, ductile iron, clay, plastic and GRP)
- ▶ Pipe junctions, pipe feeders, recesses, etc can also be isolated or sealed
- ▶ In addition to round profiles, other non-circular profiles (egg, ellipse, oval) can be sealed
- ▶ The permanent elasticity and flexibility of the sleeves secures a permanent seal of the pipe joints, even in the event of shifts of the pipe axis after rehabilitation
- ▶ Can be used in both horizontal and vertical pipe systems

Spreading retaining band

Inserting locking wedge

Complete VIP-Weco Seal



## TECHNICAL SPECIFICATION



Rubber quality	EPDM for drinking water EPDM for industrial water, waste water (EPDM - ethylene-propylene-diene rubber) NBR for gas, oil, Kerosene, etc (NBR - acrylonitrile-butadiene rubber)		
Shore hardness	70 +/- 5		
Diameter Ranges	Non walkable:	DN185 to DN599	
	Walkable:	DN600 to DN3500	
Pressure ranges up to 20 bar internal pipe pressure			
Sleeve dimensions	Total width:	280mm	480mm
	Web width:	150mm	350mm
	Sleeve thickness:	6mm	6mm
Pipe profiles	Egg shaped Circular Special profiles on request		
Clamping bands material	Made of stainless steel (e.g 1.4571, 1.4404 or 1.4301 for water, sewage, gas etc) or carbon steel (eg. Fe 590-2 for gas, oil, etc) depending on operating conditions and special customer demands.		
Material tests	Material approvals and certificates are available upon request.		