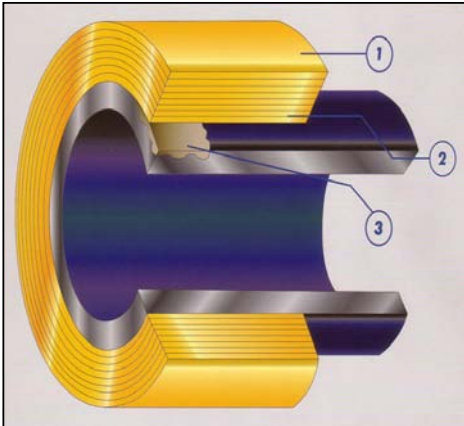


Clockspring



The fast, economical solution for permanent pipeline repair

The Clock Spring System Consists of

1. A patented, hi-strength, unidirectional composite structure.
2. A patented, fast curing, high-performance two – part adhesive system.
3. An extremely high compressive strength, proprietary load transfer component.

Repair corrosion defects with up to 80% metal loss, as well as mechanical and third party damage.

The repair is stronger than pristine pipe allowing the pipeline to return to service at 100% of its maximum allowable operating temperature.



Easier: Installing Clockspring is simple. Each kit contains everything needed to make permanent pipeline repairs. No machinery or highly skilled personnel are required. A two-man crew can usually do all that is required.

Safer: No welding or hot work is required. In most cases, installation can be carried out whilst the line is still in operation.

Economical: Less expensive to install and fits more closely to the carrier pipe than conventional steel sleeves. Compared to cut out and pipe replacement, Clockspring is substantially cheaper. Because it installs quickly, time, equipment and labour costs are vastly reduced and throughput is never interrupted.

Proven: Clockspring is used and approved by over 60 countries. First unit was installed in 1980, and over 50,000 units have been installed since then. Repairs have a designed working life of over 50 years.

Sleeve Specification	
Use	Designed to repair/reinforce damaged or corroded sections of line pipe with less than 80% thru-wall loss
Standard configuration	8 layers
Nominal thickness	½" (13mm)
Application temperature	-18°C to 49°C
Service temperature	-29°C to 54°C (temps below see Savcor)
Material	E-glass / polyester
Layer Thickness	1.52mm ± 0.25mm
Width	292mm ± 13mm
Length	CS length is matched to respective pipe O.D. to ensure 8 layers when installation is complete

Adhesive Specification	
Mixed Viscosity	15,000-20,000cps
Shelf life	12 months from date of manufacture
Filler Specification	
Mixed Viscosity	18,000cps
Shelf life	12 months from date of manufacture
Activator Specification	
Shelf life	12 months from date of manufacture

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
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All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential users are urged to trial and /or conduct conformity test of the product to deem its suitable in application for a particular end use prior to purchase.

Clockspring

Derivative Technology

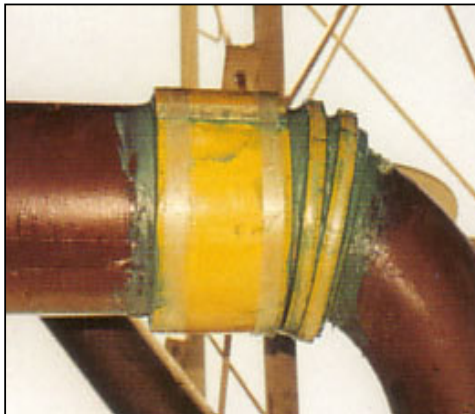


Snap Wrap

An economical repair alternative for low pressure piping that can be applied quickly and easily, requiring no special tools or training.

Snap Wrap is a high strength corrosion resistant fibreglass composite split sleeve, a high performance adhesive, and a filler material.

The composite split sleeves are uniquely shaped and sized to wrap around a pipe diameters 3/4" and larger. The individual layers are bonded together and to the pipe surface to fully restore serviceability.



Pipe Support

Provides effective protection at support or hanger locations and can be applied quickly and easily- requiring no special tools or training.

Pipe Support is a high strength corrosion resistant fibreglass composite sleeve, a high performance adhesive, and a filler material.

The sleeves are uniquely shaped and sized to wrap around a pipe diameters 3/4" and larger providing two (2) individual layers bonded together.



Leak Stop Clock Spring Leak Stop is a repair technique for leaking pipelines based on the Clock Spring composite technology. The system provides for multiple seals. The leak is sealed with epoxy putty and covered with a flexible barrier. Split-sleeve composite technology is used to compress the sealing barriers and fully reinforce the leak area.



Clockspring is simply the smartest pipeline repair decision you can make!

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