

Advantages

- **CorrView Corrodes Under The Same Conditions As The Pipe Itself**
- **Installed Directly Into The Pipe Or Tank Rather Than Isolated In A Side Stream Loop**
- **Provides Real World Corrosion Monitoring Unavailable Through Other Testing Methods**
- **Totally New Testing Method Providing Never Before Available Information**
- **Overcomes The Limitations Of Corrosion Coupons**
- **Reacts To Under Deposit Corrosion, Pitting, Galvanic Activity, Erosion, And Micro Biological Attack**
- **Extends Corrosion Monitoring To A Greater Number Of Areas**
- **Provides Continuous 24/7 Monitoring Coverage**
- **Measures All Forms Of Corrosion Effect**
- **Low Cost, Easy Installation Extends Its Use**
- **Simple Design Requires No Maintenance or Lab Analysis**
- **Patented**



The Corrosion Threat

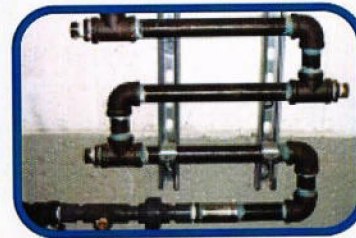
The corrosion of steel piping and its related components is a continuous and virtually unstoppable process. The estimated cost for replacing corroded piping systems in the United States alone stands well in excess of \$50 billion annually.

In its less serious form, corrosion can produce problems ranging from lost heat transfer efficiency and constricted pipes, to annoyance pinhole leaks and temporary shutdowns. More serious failures are in the form of major floods, and operating shutdowns resulting in costly property damage, lost production, personal injury, and legal consequences.

The failure to recognize a serious corrosion problem often results in the need to replace some or all of the piping system at extraordinary cost and inconvenience.

The problem is complex. Today's steel pipe products are simply more corrosion susceptible, the chemical inhibitors less effective, operating demands greater, and yet thinner piping materials are commonly employed.

Combined, this places greater than ever importance on the need to monitor for corrosion and to provide data that is accurate in reporting the true wall loss at the actual piping interior.



Coupon Limitations

Corrosion coupons are an excellent source of information to any building owner or plant operator. Where regular testing under rigorously controlled conditions exists, corrosion coupons will provide a good indication of whether the potential for corrosion to occur is increasing or decreasing.

However, they rarely provide real world corrosion data regarding the actual wall loss at the pipe itself due to a wide variety of reasons.

Corrosion coupons are electrically isolated, exist under different flow conditions, and rarely experience erosion due to particulates. Their mirror smooth surface limits the attachment of rust and micro biological growths. In addition, their typically short test interval of 45-90 days prevents the accumulation of deposits common to most older piping systems - a major cause of high corrosion loss.

Due to entirely different operating conditions between the coupon rack and actual pipe, under reporting of the corrosion rate by coupons is often 5-10 times or more.

Installed within the piping system itself, *CorrView* experiences all such negative influences to provide more realistic corrosion rate information.

True Corrosion Monitoring Under Actual Piping Conditions

Introducing *CorrView*: The self-contained, low cost corrosion monitor for any fluid containing system.

This simple and maintenance free corrosion testing device provides every property owner / plant operator a simple and effective means to realistically measure corrosion activity.

- **Operates Under Actual System Conditions**
- **More Accurate Than Corrosion Coupons**
- **The Liquid Equivalent To An Electrical Fuse**
- **Continuous Backup Corrosion Testing**
- **Provides Added Safety**

CorrView is installed directly into the piping system to provide a brilliant color change and warning after its predefined metal surface corrodes away. Its that simple.

Affected by environmental factors such as particulates, flow rate, galvanic and electrical currents, under deposit pitting, and micro biological growths, *CorrView* provides greater accuracy and reliability. Extends monitoring coverage.



Real World Corrosion Monitoring

The New, Versatile, Low-Cost Testing Tool

Latest Technology

The *CorrView* corrosion monitor is a new product specifically designed for measuring wall loss under real world conditions. That is, under the same corrosion conditions as exist for the pipe metal itself.

CorrView is also designed to provide long term, low cost wall loss monitoring where conditions or interests do not allow for any form of regular corrosion testing, and where no corrosion monitoring would be otherwise performed.

Physically, *CorrView* is similar to a standard hex headed pipe plug. Since it is threaded directly into the piping system, its also subject to the exact same environmental and operating conditions.

This is a significant difference from corrosion coupons, which exist isolated in a side stream loop.



CorrView is affected by all corrosion related forces such as particulate and abrasive content, flow rate, galvanic activity, electrical currents, under deposit pitting, and micro biological growths, etc.

Defined Wearing Surface

All possible corrosion mechanisms acting against the pipe also wear against the forward face of the *CorrView* monitor to provide a more accurate corrosion rate assessment.

Its precision machined forward face is available in standard and client specified thickness dimensions in order to provide both long term and short term monitoring. *CorrView* can be customized to any need.



Greater Testing Coverage

CorrView's simple, maintenance free design allows installation virtually anywhere - thereby extending corrosion monitoring coverage to problem areas never before considered.

It is easily installed into any threaded pipe, tank, or pressure vessel opening. Once in place, *CorrView* essentially begins recording the corrosion activity of the piping system by simply wearing itself away.

After this predefined amount of metal is lost, water or moisture enters into *CorrView's* sealed chamber to trigger a bright visual indication or alarm condition at its front sight glass.

Quick, Clear Indication



CorrView is a passive and strictly mechanical device which is extremely simple in design and operation.

There is no time schedule to keep, no special piping to install, no recurring costs, no outside error, zero maintenance demand, and no follow-up lab analysis required.

In effect, *CorrView* remains in place to act as a virtual "Liquid Fuse" - providing a bright visual warning indication after a preset amount of wall loss has been exceeded.

Its highly visible white to bright fluorescent orange color change is easily seen and understood - requiring no prompting or special instruction. An attached tag provides complete identification and contact information.

This makes *CorrView* the perfect tool for any property owner or operator concerned about corrosion problems. It also is ideal for any piping system or tank which, though it may not represent a serious corrosion threat, still warrants some attention.

Problem Corrosion Areas

With its low cost, flexibility, and ease of installation, *CorrView* is ideal for those piping areas prone to higher corrosion activity, yet rarely addressed.

CorrView is well suited for corrosion monitoring in areas such as:

- Condenser or Process Piping
- Drained Systems
- Dead End or Future Lines
- Low Flow or No Flow Areas
- Lower Horizontal Lines
- Bottom Areas of The Pipe
- Chemically Untreated Piping



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