

INGU

Confirmation of Containment

Integral to top tier pipeline integrity programs

Over the past decade, several highly-public pipeline failures have shown that the consequences of a pipeline rupture or leak can be extremely severe for both the environment and human life, beyond resulting in billions of dollars in remediation costs.

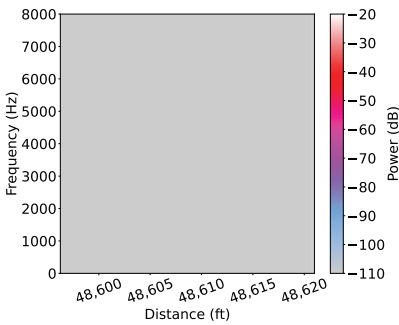
Pipeline operators spend millions of dollars on in-line inspection programs to identify defects of the pipe wall. While these programs help reduce the risk of operating a pipeline safely and reliably, the majority do not take advantage of confirmation of containment tools that can locate pinhole leaks.

Regular confirmation of containment is an excellent complement to conventional in-line inspections because it can confirm that there are no pinhole leaks in the pipeline. INGU's Pipers® provide this service; they can be deployed quickly and ensure there are no immediate areas of concern for the pipeline operator.

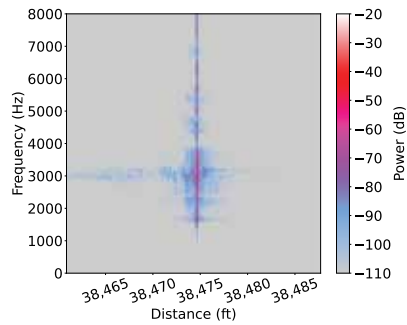


How Pipers® ensure Confirmation of Containment

Pipers® move with the flow through the pipeline under operational conditions, which means that they check for leaks without the need to stop operations. Because of their free-floating nature, they do not produce background noise, making them super sensitive to even the smallest leak sound (see reference section and leak signature in below figure).



Reference section



Signature of a pinhole sized leak

Regular inspections and immediate response

Pipers® inspections can be scheduled at regular intervals, but it is also possible to have Pipers® in stock allowing for an immediate response when a leak is suspected.

Pipers® specifications

- Pressures up to 20,000 kPa (2,900 psi)
- Temperatures -20°C to 70°C (-4°F to 158°F)
- Inspection time of 24 hours
- Diameter measures 2.8 inches

To find out if the Pipers® inline inspection solution is right for you, visit ingu.com or email us at info@ingu.com.



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