

May 2015

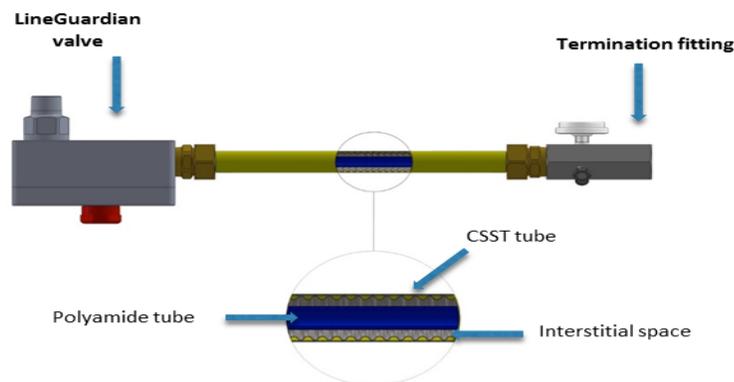
Fact sheet - How LineGuardian™ for fuel oil works

LineGuardian technology - is the world's first leak detection system that is purely mechanical: it can detect even the smallest of leaks – and immediately stop the flow—without power or supervision.

LineGuardian for fuel oil - detects and stops fuel leaks immediately, eliminating the environmental damage and expense of a fuel spill. It also has advanced fire protection capabilities that stop the flow of fuel immediately.

Simply speaking it works like this:

1. The LineGuardian valve attaches to your oil tank
2. The termination fitting attaches to your appliance
3. Our two-line system, consisting of an inner polyamide tube, and an outer corrugated stainless steel (CSST) tube, is attached to the LineGuardian valve and the termination fitting
4. The polyamide tube (inner) is where the fuel flows. The CSST (outer) is for line protection, containment, and ease of installation
5. The space between the tubes (interstitial space) is charged with nitrogen in order to open the normally closed LineGuardian valve.
6. If damage or fire occur, the nitrogen is released, which closes the LineGuardian valve, and the fuel ceases to flow



If the appliance that is using Line Guardian stops working, it may indicate a breach in the fuel line. If the pressure gauge on the system is below 25psi, the line has been compromised and LineGuardian has stopped all fuel movement. Homeowners would then call their local fuel oil supplier, ideally the same company that installed the Line Guardian Valve system.

Contact: Andrea Anderson, pr consultant, 902-266-3725 or andrea5anderson@gmail.com



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Fact sheet – What homeowners need to know about LineGuardian™ for fuel oil

Benefits

The environmental damage and enormous expense of a fuel oil leak are things a homeowner never wants to encounter. LineGuardian for fuel oil is the solution. It is the world's first leak detection system that is purely mechanical: it can detect even the smallest of leaks – and immediately stop the flow—without power or supervision. No other device offers that critical feature. And no other device offers the advanced fire protection capabilities either, shutting off the flow of fuel when it detects fire anywhere from tank, through lines to the furnace.

Sniffers, lasers and pressure monitors, are available technologies that detect and notify when a problem occurs, but by then the fuel is already spilling. LineGuardian stops the leak upon detection. Protective sleeves or coatings reduce the risk. But substantial damage like sudden sharp strikes or deliberate cuts by vandals can penetrate the coating or the line. LineGuardian stops the leak upon detection.

Sold through fuel oil suppliers

Homeowners contact their fuel oil suppliers to purchase LineGuardian and schedule one of their licensed technicians to install it on their fuel tank. Only a certified technician can install it.

An average install of approximately 25 feet takes 30-45 minutes which is 15 minutes longer than the current industry standard to install copper pipe. The cost of the unit and installation can be provided by your fuel oil company and/or their technician.

Line Guardian is compatible with all tanks.

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Fact sheet – background on LineGuardian™ for fuel oil

Who developed LineGuardian ?

Mark Bishoff is the inventor of LineGuardian. He is founder and chief executive officer of Lorax Systems Inc., an environmental solutions company based in Halifax, Nova Scotia. Six years ago, Mark created a prototype of LineGuardian to solve the problem of fuel oil spills. Since then, LineGuardian for fuel has been in development, undergone rigorous testing, and achieved certification from UL in order for Lorax to market it through fuel oil suppliers.

Where is LineGuardian manufactured?

Lorax manufactures the Line Guardian valve at its precision-machining shop partner, Alloy Concepts Inc., and assembles the valve at Lorax's assembly plant, both located in Burnside, Nova Scotia.

Future of LineGuardian technology

The specific application of LineGuardian technology Lorax is releasing first is for home owners who heat with fuel oil. But broadly speaking, LineGuardian technology can detect the smallest of leaks – and immediately stop the flow—of any liquid or gas. In fact, they are working on those applications now.

Lorax Systems Inc.

A provider of practical solutions to real world environmental problems, Lorax products are engineered to:

- *provide unparalleled safety and environmental benefits*
- *offer measurable operational and cost efficiencies, and*
- *maximize the potential of the world's energy resources.*

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