

Completely stops the flow of natural gas in the case of small leaks or complete service line rupture.

The Lorax Systems Service Valve is an intelligent safety shutoff device that is installed at the distribution line on natural gas services. This system will halt the flow of gas in the event of a breach in the service line.

Service Valve

Features

- Valve operation is 100% mechanical
- Automatic valve shutdown if fire detected at riser
- LineGuardian™ technology closes the valve within seconds, if a small leak or complete rupture of the line or riser is detected.
- Compatible with standard electrofusion couplings and other traditional PE connection means

Riser

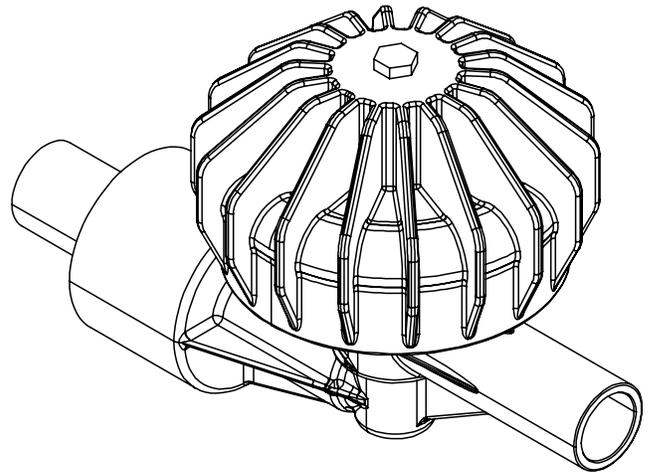
Features

- Fusible plug to close valve in event of fire
- Charging port to open valve
- Testing ports for back-pressure testing
- Compatible with standard electrofusion couplings
- Interface to Lorax Systems Communication Module.

Piping

Features

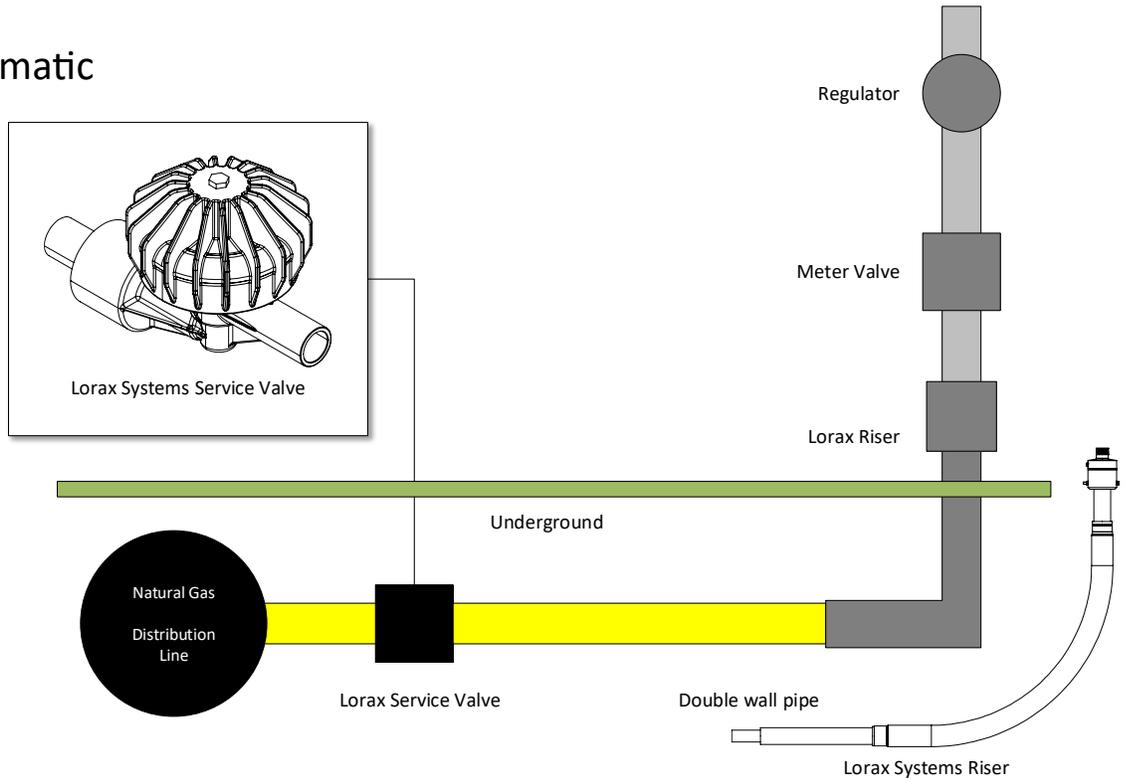
- Uses industry standard PE pipe
- Repair kit available for double wall pipe



LineGuardian⁺NG

- ◆ Jointly developed with Gas Technology Institute (GTI) and Operations Technology Development (OTD)
- ◆ End-to-end line protection to mitigate 3rd party damage
- ◆ Designed to meet 49 CFR 192

Installation Schematic



PRODUCT ID	PRODUCT DESCRIPTION	INLET SIZE	DIMENSIONS
SV-32AH	Service Valve (High Pressure)	1 1/4" IPS	13.5" x 9.5" x 7.5" [343 x 241 x 191 mm]
LR-5032A	Lorax Riser (double pipe)	1 1/4" IPS	55" x 45" x 5" [1397 x 1143 x 127 mm]

Specifications

- Operating Environment
 - Below grade
 - Temperature Range: -20 to 140 °F [-29 to 60 °C]
- Connections
 - As per ASTM D2513 & DOT 192.283b
 - As per ASME B1.20.1 (Riser above grade)
- Regulations & Certifications
 - Designed to meet 49 CFR 192 - Transportation of Natural or Other Gas by Pipeline
- Process Fluid:
 - Natural Gas
 - 15 to 125 PSIG [1 to 8.5 bar] service line pressure
 - Temporary periods: 0-15 PSIG [0.0-0.7 bar]



Lorax Systems is a Nova Scotia-based environmental solutions company, with a difference. Lorax develops and delivers innovative systems and products that mitigate environmental and safety risks, while offering operational and cost efficiencies.

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