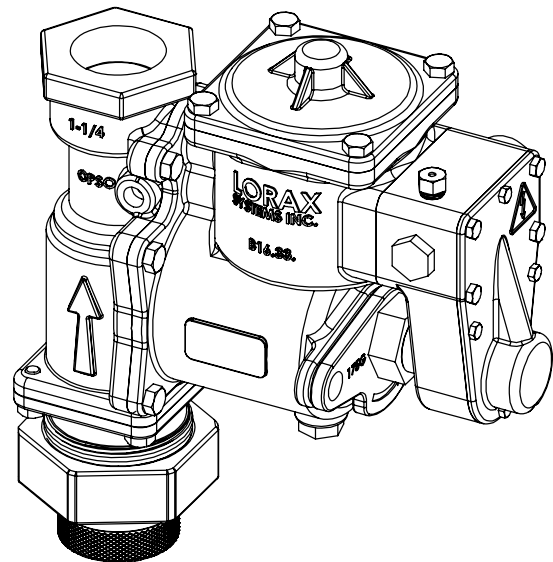


The Lorax Systems Meter Valve is a cloud enabled Industrial Internet of Things control device.

The Lorax Systems Meter Valve is a normally closed mechanical gas valve. Suitable for services up to 175 psi [12 bar] and installed at the riser, upstream of the meter-set assembly. It provides automatic and remote shut-off in the event of fire, flood, or utility initiated disconnect.

Valve Features

- 100% mechanical
- Automatic valve shutdown if:
 - Fire is detected at the valve
 - Regulator over pressure failure
 - Water detected (optional)
 - Seismic activity (in development)
 - Methane detected (in development)
- Remote disconnect via secure cloud application



Communication Module

- Battery operated
- NEMA 4 rated enclosure
- 30+ remote disconnects
- LTE-Cat-M1 cellular communication
- Hard-wired to meter valve
- Battery health & status reported

Cloud Management System

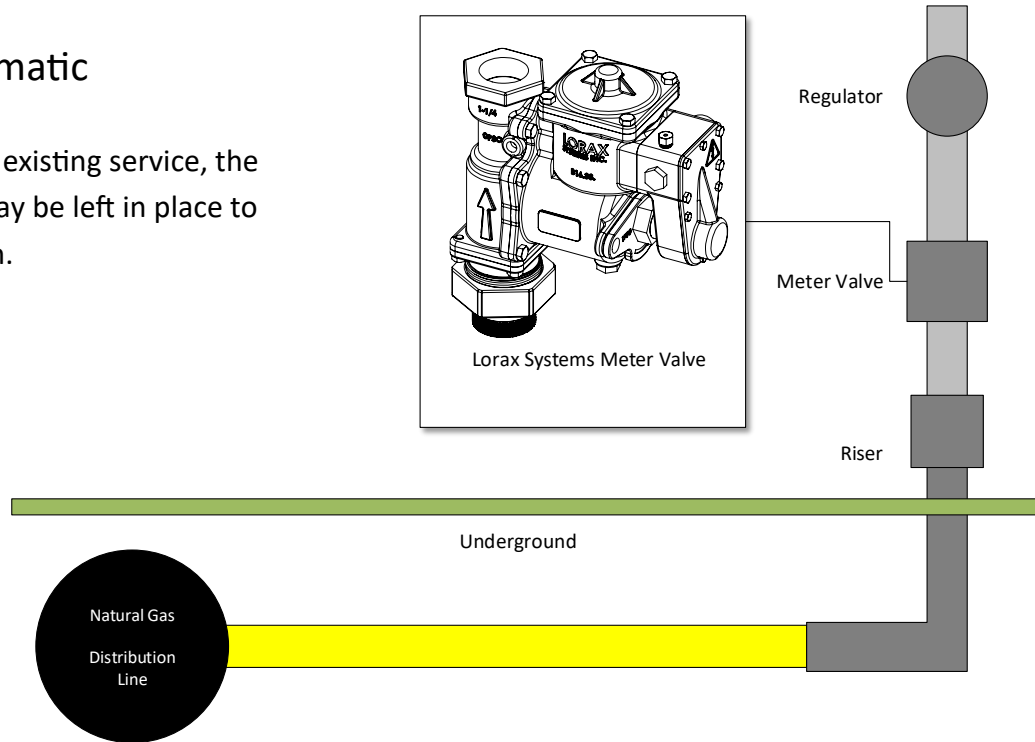
- Central cloud management and control system
- Secure shutdown of single or multiple valves
- Central registration and lifecycle management

◆ Independently tested by the Gas Technology Institute (GTI)

◆ Designed to meet ASME B16.33

Installation Schematic

Note: If retrofitting an existing service, the existing meter valve may be left in place to simplify the installation.



PRODUCT ID	PRODUCT DESCRIPTION	INLET PRESSURE	INLET SIZE	DIMENSIONS
MV-32IH	Meter Valve (High Pressure)	15 to 175 PSIG [1 to 12 bar]	1 1/4" NPT	10.4" x 3.3" x 9.3" [264 x 84 x 236 mm]
MV-32IF	Meter Valve (Low Pressure)	0 to 15 PSIG [0 to 1 bar]	1 1/4" NPT	10.4" x 3.3" x 9.3" [264 x 84 x 236 mm]

Specifications

- UL Class 1, Division 1, Group D
- Operating Environment
 - Above grade
 - Temperature Range: -20 to 150 °F [-29 to 66 °C]
- Connections
 - As per ASME B1.20.1
 - One end is capable of rotating independently of the other. (Insulated union-type connection)
- Regulations & Certifications
 - Designed to meet: ASME B16.33: Manually Operated Metallic Gas Valves up to 175 psi [12 bar]
 - 49 CRF 192 - Transportation of Natural and Other Gas by Pipeline
- Process Fluid:
 - Natural Gas

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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