

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 on the service, 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

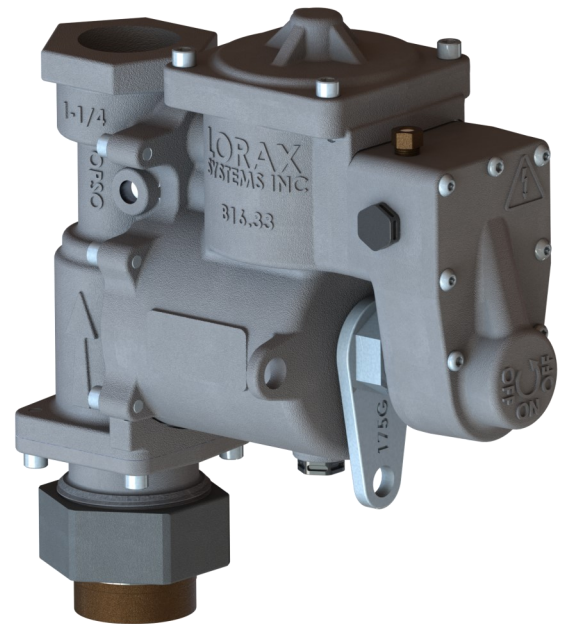
- 100% mechanical
- Remote disconnect via secure cloud application
- Automatic valve shutdown if:
 - ◆ Fire is detected at the valve
 - ◆ Over pressure detected (optional)
 - ◆ Water detected (optional)
 - ◆ Methane detected (3rd party)

Communication Module

- Battery operated (10 year)
- NEMA 4 rated enclosure
- 5-10 remote disconnects
- Cellular or LoRaWAN communication
- Hard-wired to meter valve
- Battery health & status reported
- 5 switch interface

Cloud Management System

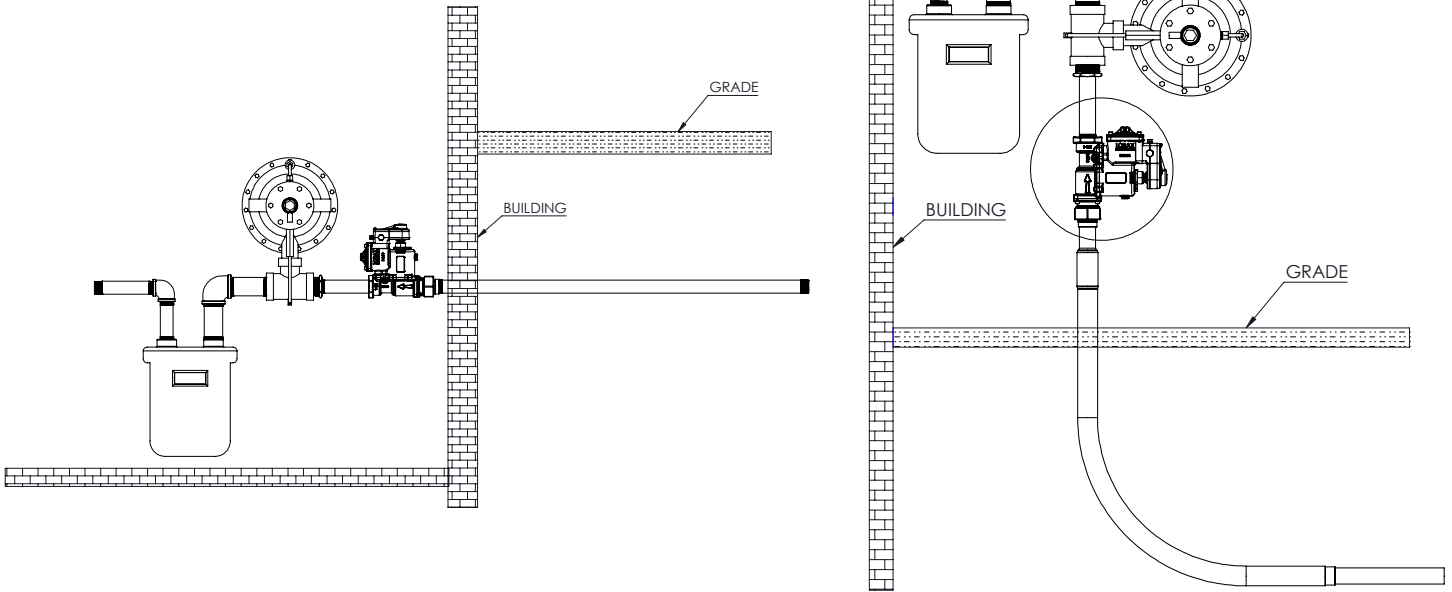
- Central cloud management and control system
- Secure shutdown of single or multiple valves
- Central registration and lifecycle management
- Integration with LoRa enabled sensors to provide automatic valve shutdown



- ◆ Independently tested by select gas utilities and GTI
- ◆ Designed to meet ASME B16.33
- ◆ Three residential methane detectors successfully tested as part of integrated safety system platform

Installation Schematic

For illustrative purposes only



PRODUCT ID	PRODUCT DESCRIPTION	INLET PRESSURE	INLET SIZE	DIMENSIONS
MV-32IH	Meter Valve (High Pressure)	20 to 175 PSIG [1.4 to 12 bar]	1 1/4" NPT	10.4" x 3.3" x 9.3" [264 x 84 x 236 mm]

Specifications

- 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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