

# NJEX<sup>®</sup> 610 Low-Volume Odorant Injection System

## Model 610

The NJEX 610 low-volume odorant injection system injects precise amounts of liquid odorant into a flowing pipeline to ensure detectability. Designed specifically for low-flow applications, the pump is volumetrically adjustable and positively injects a precise, repeatable increment of liquid odorant into cubic feet or meters, of gas that flows down a pipeline. Its unique design ensures accuracy, reliability and odor-free performance and it eliminates the risk for “vapor locking” at even the lowest of flow rates. Capable of injecting up to 1.44 liters/day (.38 gallons/day), the system provides three levels of verification to confirm only the desired amount of odorant is introduced into the pipeline.

## Features and Benefits

- Patented, pneumatically-actuated, positive-displacement plunger pump
- 1.44 liters/day (.38 gallons/day) maximum odorant output
- Versatile, electronic controller for proportional-to-flow or proportional-to-time operation
- Intrinsically safe electronics
- Modular design for ease of maintenance

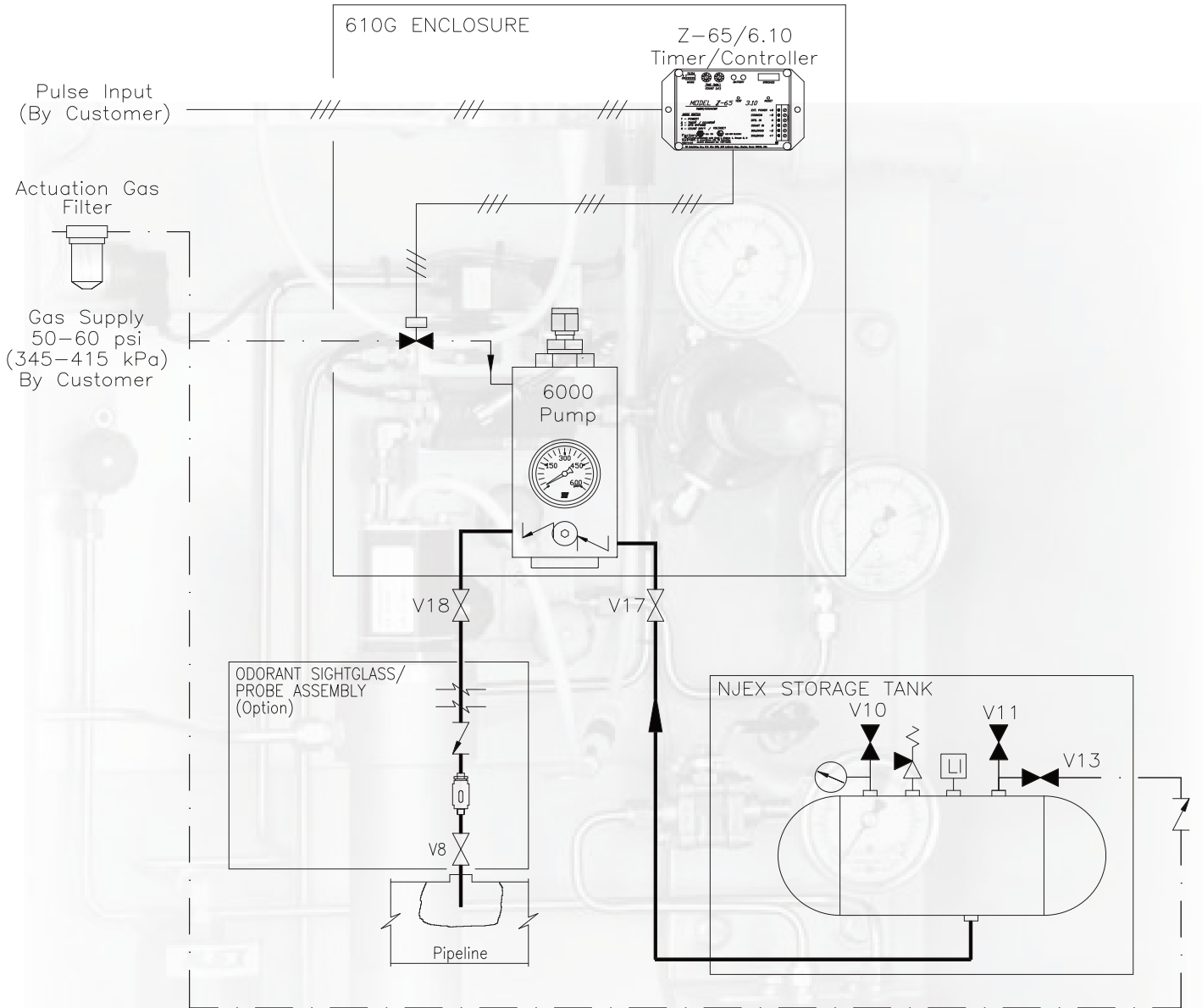
## Specifications

Maximum Odorant Output	1.44 liters/day (.38 gallons/day)
Maximum operating pressure	99.28 bar (1440 psig)
Operating temperature range	17°C to 60°C (0°F to 140°F) <sup>1</sup>
Power supply	LBP-14 Battery (standard)
Gas flow rate input signal	Pulse (dry contact or voltage pulse)

<sup>1</sup>At temperatures below 0°C (32°F) conditioning of the actuation gas supply may be required.



## System Flow Schematic



### Legend

Actuation Gas	— · — · —	▶	Normally Closed Valve	⊙	Pressure Gauge
Odorant	—	◊	Normally Open Valve	LI	Level Indicator
Electrical	— // —	⌋	Check Valve	⚡	Pressure Relief Valve
		⊠	Solenoid Valve		
V8	Injection Probe Pipeline Isolation Valve	V11	Odorant Storage Tank Vapor Return Valve	V17	Odorant Inlet Isolation Valve
V10	Odorant Storage Tank Fill Valve	V13	Odorant Storage Tank Blanket Gas Isolation Valve	V18	Odorant Discharge Line Isolation Valve