

NJEX[®] Odorant Injection System

Models 7300 and 7302

NJEX 7300 and 7302 odorant injection systems inject precise amounts of liquid odorant into cubic feet or meters of gas that flows down a pipeline to ensure detectability. These mid-use, primary odorizers provide proportional-to-flow odorant injection, onboard metering of the odorant injected, system monitoring and alarm notification. Additionally the system will document and verify the performance of each system component, parameter changes, alarms and injection rates. Available in a single or dual-unit configuration, the systems are capable of accurately injecting up to 67 liters/day (17.6 gallons/day).

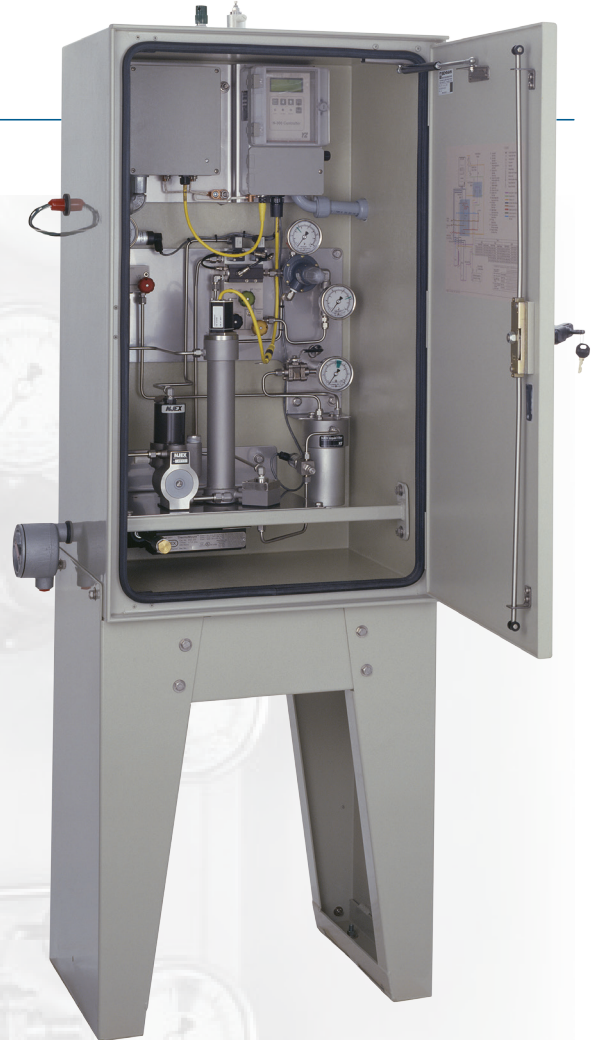
Features and Benefits

- Patented, pneumatically-actuated, positive-displacement, reciprocating plunger pump
- Teflon diaphragm isolates all dynamic seals from the odorant
- 67 liters/day (17.6 gallons/day) maximum odorant output
- Versatile, electronic controller for proportional-to-flow or time-based operation
- Real-time system monitoring and alarm notifications
- Remote communication via ModBus or Sentry4 Software
- Intrinsically safe electronics
- Single or dual Configuration to meet application requirements
- Weatherproof enclosure for protection from the elements

Specifications

Maximum odorant output	67 liters/day (17.6 gallons/day)
Maximum operating pressure	99.28 bar (1,440 psig)
Operating temperature range	17°C to 60°C (0°F to 140°F) ¹
Power supply	
	Standard SPS-12 solar panel
	Optional LPS 120/240 volt, 50/60 Hz AC charger
Battery reserve	Approximately 30 days
Gas flow rate input signal	1-5 VDC, 4-20 mA or pulse

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



System Flow Schematic

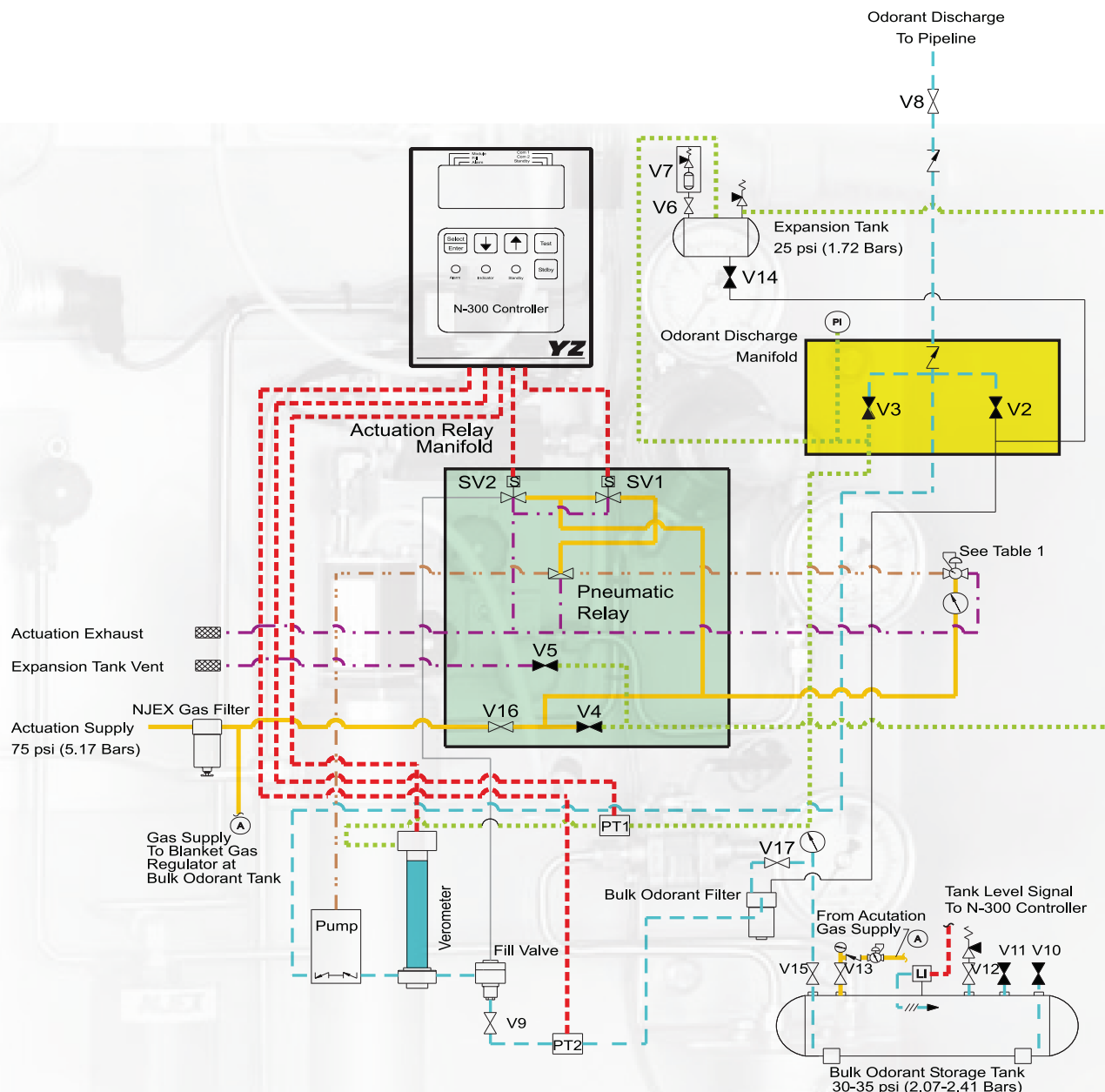


Table 1	
7300	
Pipeline Pressure	Actuation Pressure
100-200 psi (6.89-13.8 Bar)	30 psi (2.07 Bar)
200-400 psi (13.8-27.6 Bar)	35 psi (2.41 Bar)
400-600 psi (27.6- 41.4 Bar)	40 psi (2.76 Bar)
600-800 psi (41.4-55.2 Bar)	45 psi (3.11 Bar)
800-1000 psi (55.2-68.9 Bar)	50 psi (3.45 Bar)
1000-1440 psi (68.9- 99.3 Bar)	60 psi (4.14 Bar)

IMPORTANT: Read And Follow Steps 1-4 BEFORE Proceeding

- Place the controller in the "standby" mode.
- Close all valves marked "X".
- Open all valves marked "O".
- Place controller in the proper mode of operation as needed.

1. Open to build pressure to 60 psi (4.14 Bars) then close Valve
* - Adjust as needed

	V2	V3	V4	V5	V6	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17
Normal Operation	X	X	X	X	O	O	*	X	X	O	O	X	O	O	O
System Purge	O	X	X	X	X	X	*	X	X	O	O	O	X	O	O
System Vent	O	O	X	O	X	X	*	X	X	O	O	X	O	O	X
Leak Test	O	O	O	X	X	X	*	X	X	O	O	X	O	O	X
Prime Pump	X	O	X	X	O	X	*	X	X	O	O	X	O	O	O

LEGEND	
	Normally Closed Valve
	Normally Open Valve
	Pneumatic Relay
	Check Valve
	Float Valve
	Pressure Gauge
	Electronic Level Transmitter
	Solenoid Valve
	Pressure Regulator w/Gauge
	Pressure Relief Valve
	Pressure Transmitter
	Liquid Odorant - Normal Operation
	Purge/Drain Line
	Expansion Line
	Intrinsically Safe Electrical Line
	Exhaust/Vent Line
	Actuation Line 75 psi (520 Kpa)
	Fill Valve Actuation Line
	Pump Actuation Line
V2	Purge Valve (Red Knob)
V3	Prime Valve (Blue Knob)
V4	Expansion Tank Pressure Supply Valve (Gold Knob)
V5	Expansion Tank Vent Valve (Green Knob)
V6	Expansion Tank Overflow Preventor Isolation Valve
V7	Expansion Tank Overflow Preventor
V8	Isolation Valve
V9	Fill Rate Control Valve
V10	Odorant Storage Tank Fill Valve
V11	Odorant Storage Tank Vapor Return Valve
V12	Odorant Storage Tank Relief Valve Isolation Valve
V13	Odorant Storage Tank Blanket Gas Isolation Valve
V14	Expansion Tank Drain Valve
V15	Odorant Storage Tank Supply Isolation Valve
V16	Gas Supply Isolation Valve (Black Knob)
V17	System Odorant Supply Isolation Valve
SV1	Pump Actuation Pilot Solenoid Valve
SV2	Fill Valve Solenoid Valve
PT1	Expansion Tank Pressure Transmitter
PT2	Odorant Inlet Pressure Transmitter