

HVO Odorization Systems High Volume Odorant Injection

Quality System, Simple Operation



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The High Volume Odorizer (HVO) system reduces complexity of design with a simple, standardized operation that can be easily configured for each application. Odorant is pumped into the verometer by the transfer pump from the bulk storage tank. The HVO pump receives its odorant supply from the verometer. As odorant is pumped from the verometer, the HVO Control Panel calculates pump displacement and odorant usage. The HVO Control Panel interfaces with a pipeline flow signal to maintain designed odorization rate by adjusting the stroke rate of the pump. Odorant injection is confirmed by the verometer which electronically monitors flow from the bulk storage tank in a closed loop, zero-emission system.

Key Features

- Zero emission design
- Standard platform
- Closed loop prime and purge
- Auto compensating
- Graphs, trends, reports
- Auto switchover to backup in case of system alarm

System Features for Enhanced Reliability

- Injects chemical at a customer-specified rate while automatically adjusting to changes in process flow rates and pump variability
- Redundant systems with automatic switchover for unbeatable robustness
- Large touch-screen user interface with multiple layers and trend graphing
- Ultra-high accuracy and precision
- Zero emission closed loop system
- Remote communication for seamless integration
- More than 25 alerts and alarms
- More than 25 customer adjustable parameters
- Documents and verifies injection rate and performance
- Pump leak detection prevents unexpected downtime

HVO Control Panel

- Large touchscreen controller
- Proportional to flow, manual operations
- Remote communications
- Real time alarms, graphics
- Documents and verifies injection rate and system performance (2GB)

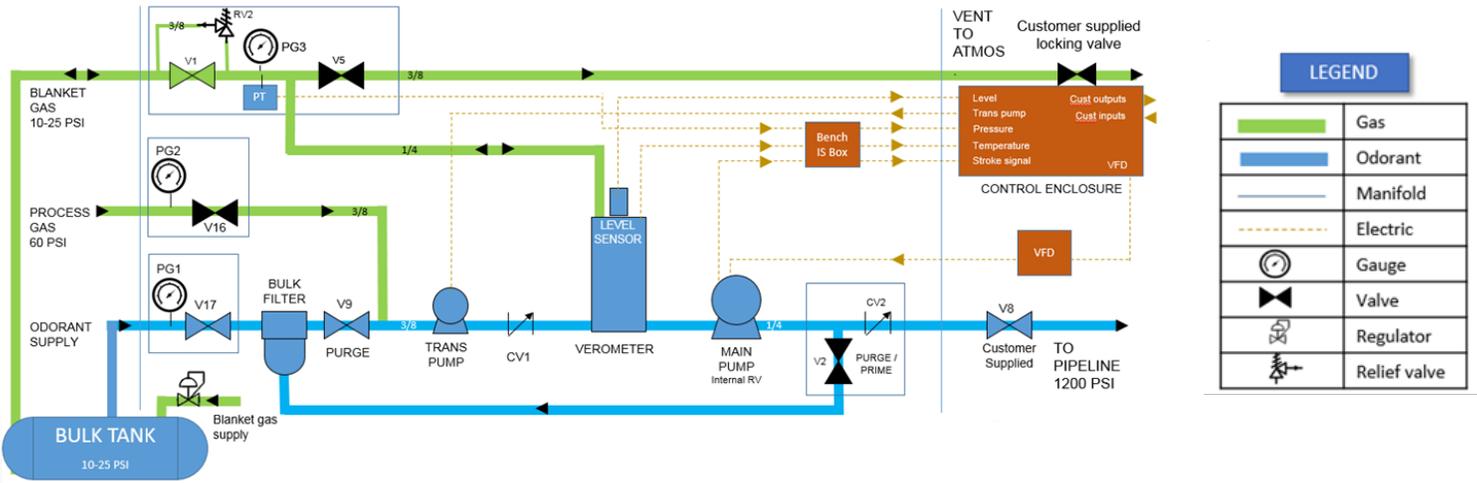
Smart mRoy (Electric Pump)

- Capacity: 11.4 GPH (per pump) @ 1500 psi
- Double diaphragm design eliminates unscheduled repairs
- 316 SS head, hydraulically actuated diaphragm
- 1/2 Horsepower, explosion proof motor



HVO Fluid Flow Diagram

Before purging, isolate the odorant supply by closing V17 on adjoining sub-system. Purge must be directed to a tank not being used by the other system. Complete purge and open V17 on adjoining subsystem before verometer empties.



	Blanket gas	Purge/Prime	Vent	Odorant out	Purge block	Purge gas	Odorant in	Transfer pump	Injection Pump	
MODE	V1	V2	V5	V8	V9	V16	V17	TP	IP	Comments
Normal	O	X	X	O	O	X	O	O/X	O	
Purge	X ²	O ²	X	X ¹	X ³	O ² /X ⁷	X ⁶	X	X	Close V17 when PG1 flutters
Vent	X	O	O ² /X ³	X	O ¹	X	X	X	X	Close V5 when pressure is O
Prime transfer pump	X	X	X	X	O ¹	X	O ²	X	X	Wait two minutes
Prime verometer	O ¹	X	X	X	O	X	O	O ² /X ³	X	Fill the verometer using F3
Prime injection pump	O	O ²	X	X	O	X	X ¹	X	O ³	Jog the pump 3X's using F4
Normal	O	X ¹	X	O	O	X	O	O/X	O	Return to normal operation

Selecting Your System

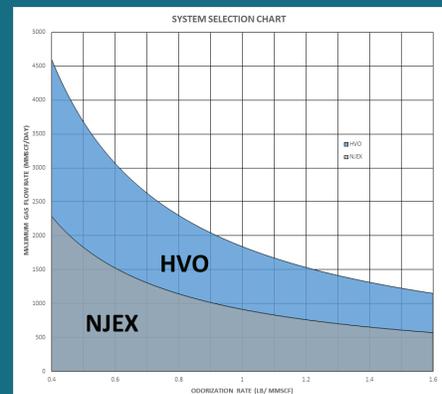
We offer a selection of NJEX systems to meet your operational requirements.

Low-Volume & Mid-Volume Injection Applications

- LVO Series
- NJEX 7300 Series
- NJEX 8300 Series

High-Volume Injection Applications

- NJEX 8300 Series
- HVO Series



Focusing on Your Priorities

YZ Systems is committed to the safety of people and the environment and has provided precision equipment to the energy industry for the past 60 years. Our innovative designs deliver accuracy while our versatile solutions accommodate a wide range of performance requirements. Commitment to quality is our top priority to ensure the protection of your most precious assets.



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