SPARTAN CONTROLS

IOTA-dp Series

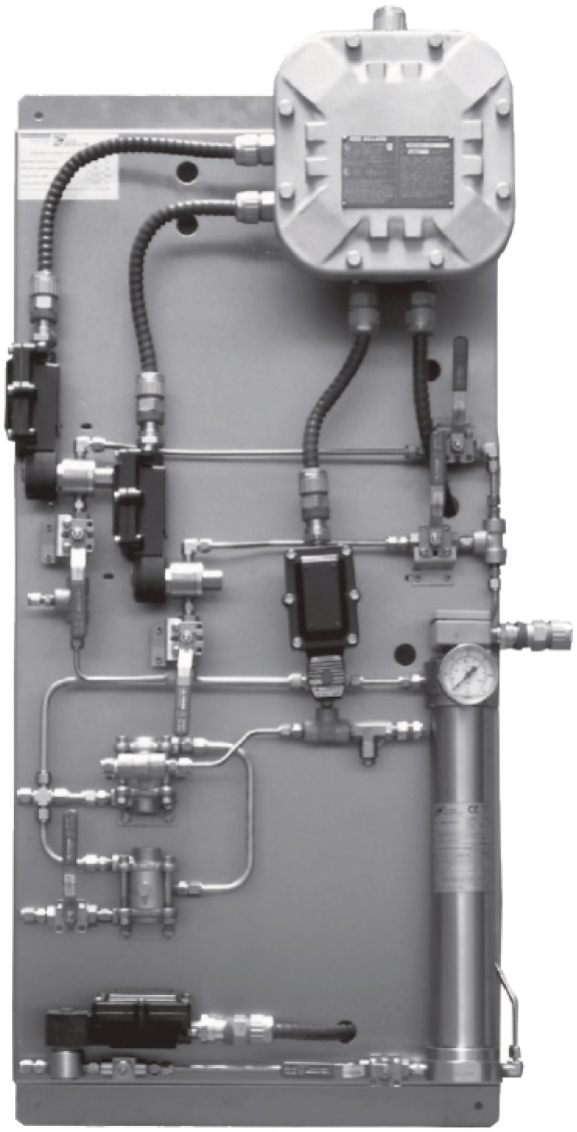
Odorant Injection

Injecting gas with a strong scented odorant provides the ability to easily detect gas leaks.

The Dosaodor-D Smart Odorizing System, with solenoid valve injection technology, offers a better solution compared to absorption systems. It's easy to use and offers remote access and less maintenance compared to other technologies. The simple mechanical design uses small, frequent injections and a wick distribution system to ensure consistent concentration of odorant, even when flow rates vary, for an exceptionally reliable performance.

The solenoid injection valve, driven by a proprietary algorithm, provides the precise amount of odorizing liquid, over low summer to high winter, flow rates. This feature is particularly important as excess liquid odorant results in nuisance alarm calls, whereas a lack of liquid odorant can result in compromising safety, in the case of a downstream natural gas leak.

- Extremely low maintenance cost
- Uniform odorant distribution
- Automatic calibration of injection system
- High turn-down ratio
- Environmentally friendly (no venting)
- Reduced installation costs
- Standard and scalable hardware platform
- Variety of redundancy and backup options



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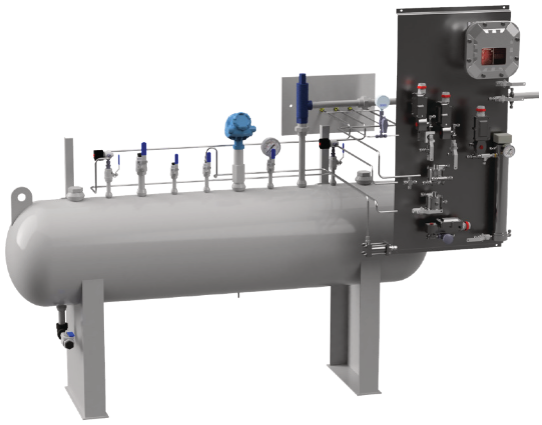
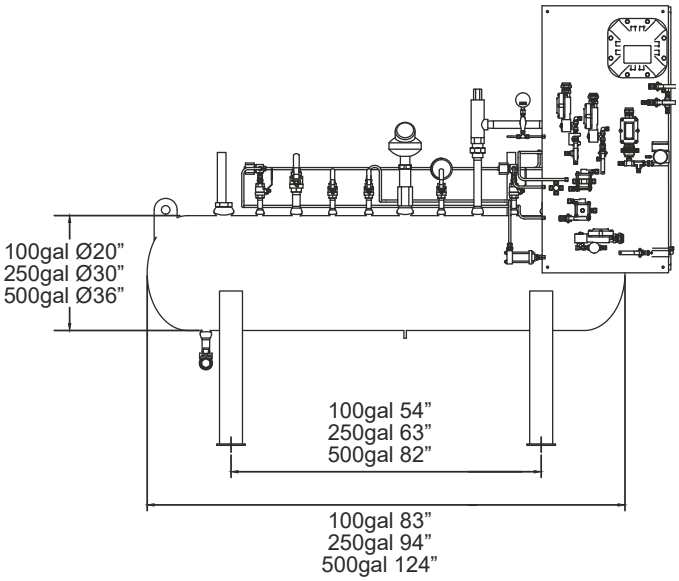


Application

The pressure loading of the odorant calibration cylinder, filled with odorant, is used to inject liquid odorant into the downstream pipeline through an on/off valve. The fixed orifice, with a known flow coefficient, is controlled by the ROC809.

The automated system controls odorization rates proportional to the gas flow by injecting relatively small doses, which are automatically resized to maintain the user setpoint over time.



Vessel Dimensions

Technical Specifications	
Environment	-10 to 60°C (low temp options down to -40°C)
Pressure Rating	250 psig and 850 psig (up to 1440 psig options available)
Maximum Injection Pressure	870 psi (60 bar)
Flow Rate – Average	Up to 500,000 SCFH
Flow Rate – Peak	2 MMSCFH+
Vessel Sizes	100gal, 250gal, 500gal
Area Classification – Electrical Control Panel	Class 1 Division 2, Groups C&D, T3
Area Classification – Skid	Class 1 Division 1, Groups C&D, T3
Power Requirements	120 VAC 50/60 Hz
Mechanical Connections	3/8 in. / 9.5 mm OD Tube fitting

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