



Norriseal Level and Pressure Control Performance Far Superior to EPA Emissions Requirement

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Products Affected: All level and pressure controllers

The following statements reference U.S. Environmental Protection Agency (EPA) Oil and Natural Gas Sector: New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants Reviews 40 CFR Part 60 Subpart OOOO, 60.5390 (b)(c) and with 40 CFR Part 98 Subpart W table W-1A.

EPA Standard

As of August 23, 2011, the EPA has mandated that operating companies comply with NSPS 40 CFR Part 60 Subpart OOOO and 40 CFR Part 98 Subpart W as published in the Federal Register. The key criterion for compliance mandates that controllers must have a bleed rate no greater than 6.0 scfh.

Norriseal Controller Published Rates

EPA published rates for "Low or No-Bleed Pneumatic Devices" are included in the information presented below:*

LIQUID LEVEL CONTROLLERS		Pilots		EPA Requirement: 6.0 scfh →
 <p>Series 1001 Series 1001A</p>	Snap		← 0.2 scfh	
	Throttle		← 0.007 scfh	
 <p>Series 1001XL Series EVS</p>	Envirosave®		← 0.0 scfh	
PRESSURE CONTROLLERS		Relay		
 <p>Series 4900</p>			← 4.2 scfh**	

* Per the EPA published document "Lessons Learned from Natural Gas STAR Partners," subtitled "Options For Reducing Methane Emissions From Pneumatic Devices In The Natural Gas Industry," dated October, 2006, appendix A page 10.

** Norriseal's 4900 Pressure Controller includes both Continuous Bleed (Nozzle) and Actuating or Intermittent Bleed (Proportional Valve).
 - The Nozzle of the pressure controller bleeds at a constant rate that is below the 6.0 scfh requirement of Title 40, part 60, NSPS Subpart OOOO.
 - The Proportional Valve will bleed at an intermittent rate that is dependent upon the proportional valve setting (0 - 10, with 0 being No Bleed and 10 being the highest bleed rate). The proportional valve will bleed when changes in process pressure require the valve to move (open/closed or modulate) or react to throttle gas flow to maintain a desired process condition.

These results are consistent with Norriseal internal testing when used in standard applications and conditions.

In summary, Norriseal internal testing and U.S. EPA published data confirm that bleed rates of all Norriseal controllers are significantly below compliance requirements and more than satisfy EPA mandates.

For additional information, contact Norriseal at 713-466-3552 or info@norriseal.com.

Engineered Performance

Norriseal is an ISO 9001-certified manufacturer of level and pressure control products, level gauges, control valves, butterfly valves, check valves and regulators. For more than five decades, Norriseal products have set performance standards in oil and gas production, gas transmission, refining, chemical processing, marine, power generation and other industrial applications.



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