

Your Local **Swagelok** Resource for Optimum Marcellus and Utica Productivity and Profitability**MAXIMIZING**  
Worker and Site Safety**MINIMIZING**  
Fugitive Emissions**MASTERING**  
Application Challenges

# Know Your Limits



Stay **SAFE.**  
Stay **CLEAN.**  
Stay **COMPLIANT.**

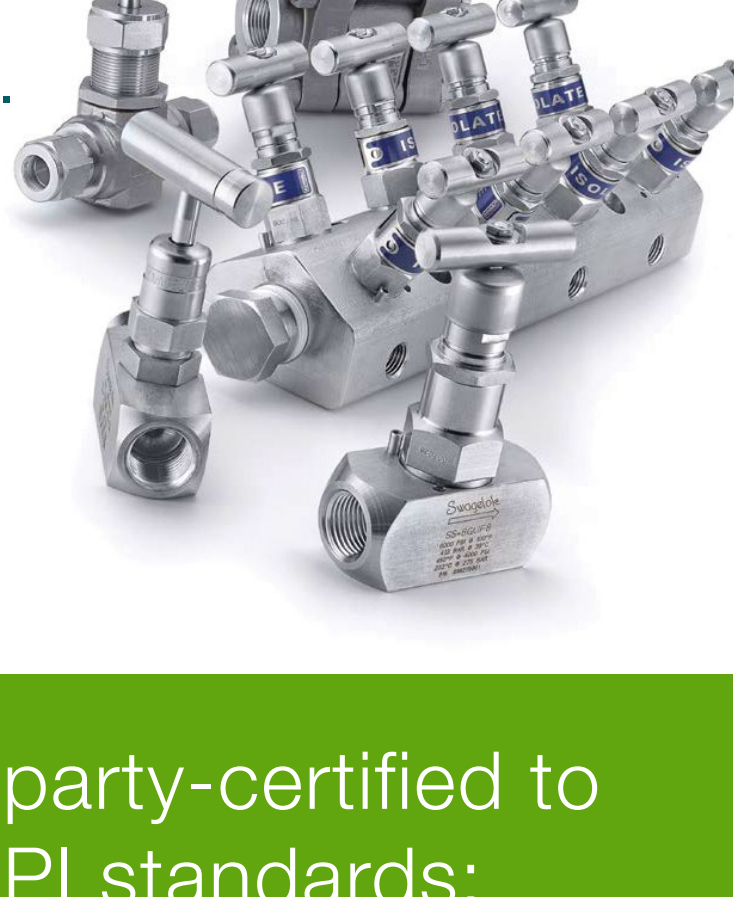
**These VOCs – benzene, methane, and ethanol – can jeopardize air quality and contribute to ozone formation.**

Government agencies have thus set rigid regulations to control such harmful discharges, with violators subject to safety issues and massive fines.

Primarily, the dynamic and static seals on your valves, pumps, and flanges are the main culprits. *But there is a simple solution:*

**Swagelok Low-E Valves.**

Proven. Trusted. Ultra-reliable. And leak-tight, especially in the most challenging applications and operating environments.



Our Valves are third party-certified to these stringent API standards:

- **API 624** which covers the testing of rising stem components using methane as the test media. A valve must perform 310 cycles, as well as three thermal cycles with a leak rate under 100 parts per million methane
- **API 641** which details the testing of ball valves using methane as the test media. A valve must perform 610 cycles, as well as three thermal cycles with a leak rate under 100 PPM methane
- **ISO 15848-1** which evaluates external leakage of valve stem seals/shafts and body joints of isolating and control valves. Helium or methane is pumped through the valve and any escaping gas is measured digitally

Choose confidently from our wide array of premium styles and sizes:



**All have passed API testing – with zero design modifications and have never leaked in excess of 100 PPM methane during any such testing.**

## Best Practices

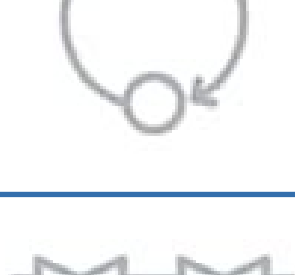
### for Lowering Fugitive Emissions



Make packing adjustments on preventive maintenance schedules. For example, cold-weather climates need increased packing intervals.



Implement lockout devices to help prevent throttling of bleed valves and accidental actuation.



Reduce the number of non-low-E valves available on site to prevent accidental installs in critical applications.



Consider replacing valves instead of repairing old ones; new valves can be less expensive than the time and labor associated with maintaining aging valves.



Use double block and bleed (DBB) valves for safety purposes.



When handling light-end gases (hydrogen, for example), consider using bellow seals.

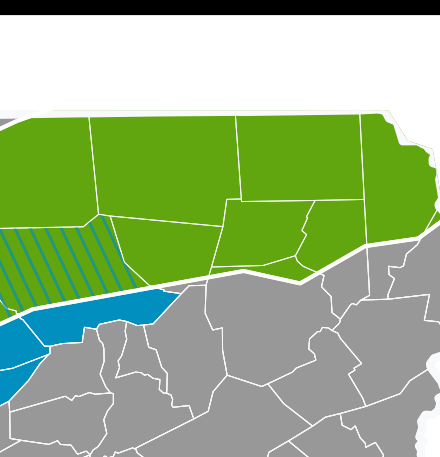


When selecting low-E valves, standardize on a few models from a small selection of manufacturers. While doing this, consider where you're sourcing other fluid system components—products designed by one manufacturer to work well together often perform at higher levels than components from several different suppliers.

For complete information on how Swagelok Products and Support Services can help you achieve your Net Zero Sustainability goals, contact:

**Zach Barefoot**

Midstream & Construction Specialist



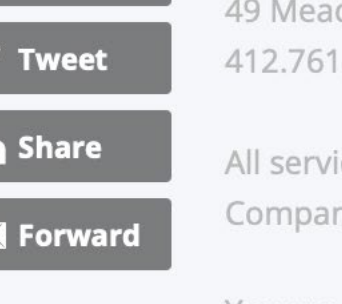
[zach.barefoot@swagelok.com](mailto:zach.barefoot@swagelok.com)

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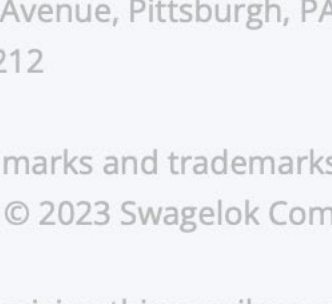


**The Brand. The Inventory. The Expertise.**

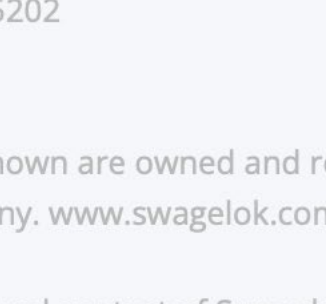
**WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER**



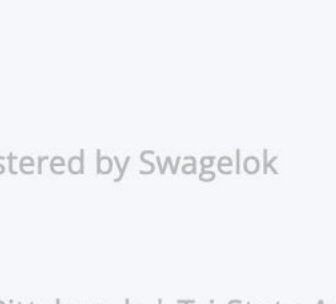
**Industry-Best Componentry**



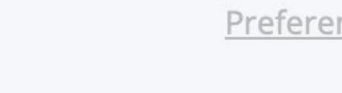
**Masterful Custom Fabrication**



**Expert Safety Training**



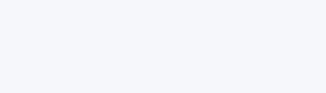
**Extensive Energy Evaluations**



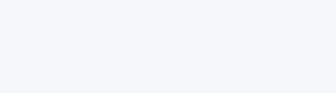
**Unparalleled Application Knowledge**



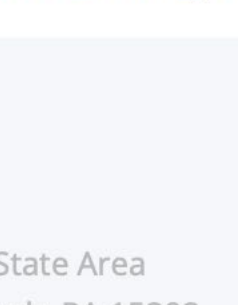
**Comprehensive Hose Advisories**



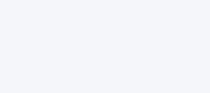
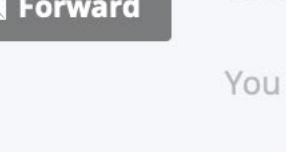
**Proven Inventory Management Support**



**Genuine Swagelok Tool Rentals**



WE CAN HELP YOU SAVE TIME, MONEY, AND WORRY:



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