

MAXIMIZING
Worker and Site Safety

MINIMIZING
Fugitive Emissions

MASTERING
Application Challenges

Higher productivity and profitability begin with Swagelok® Low-E Valves



Uncontrolled emissions of methane, ethanol, and other gases not only negatively affect air quality, but usually lead to massive EPA and other government agency fines. Dynamic and static seals on valves, pumps, and flange connections are particularly prone to emit such harmful emissions – with 62% primarily linked to valves at a typical facility.

The American Petroleum Institute offers two major tests for low-emission classification:

API-624 - Covers the testing of rising stem valves, with 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 (PPM).

API-641 - Details the testing of ball valves, also with methane as the test media. A valve must perform 610 cycles as well as three thermal cycles with a leak rate under 100 PPM.

Swagelok offers two trusted and proven solutions to help you control fugitive emissions, thus making your workers, assets, and structures safer – and your Bottom Line healthier:

1 LOW-E CERTIFIED PROCESS AND INSTRUMENT VALVES



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

- Our unparalleled fluid-system application expertise around design, installation, operation, and maintenance enables us to identify your risk factors and help solve even your most pressing challenges.
- Our input will lead to substantially improved site safety, lower operating costs and worries, and far fewer environmental consequences.
- Our promise: Give us one look at your current systems... and we'll provide you the know-how to do more, save more, win more.



LOST FLUID

millions of litres are wasted each year
(1 gallon of hydraulic fluid = \$14 USD)

LOST PRODUCTION

especially important in offshore oil where laws already limit production to a specific number of days per month

EQUIPMENT DAMAGE

loss of lubrication can lead to premature wear/machine failure



OFF-SPECIFICATION PRODUCT

can be produced inadvertently due to improperly calibrated or operating instruments; material must be reworked, sold at reduced price, or disposed of

DEGRADED WORK ENVIRONMENT

oil drippage can cause accidents; emissions can be expensive, dangerous—even illegal



FINES FOR NONCOMPLIANCE

systems and equipment that violate validated processes can quickly become costly



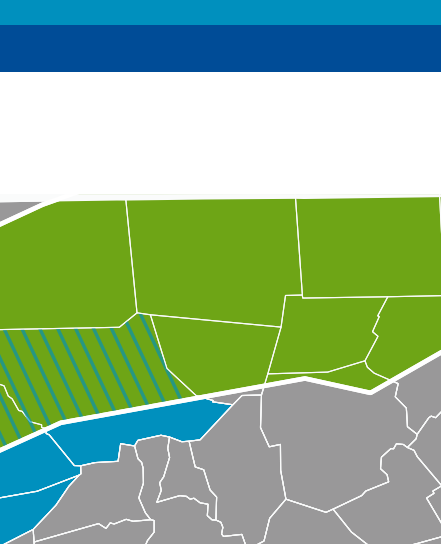
CLEANUP

it takes time to locate and repair leaks; some call for special teams to manage toxic chemicals; there's also the cost of shutting down a system to thoroughly clean it

To learn more about our Low-E Components and Leak Detection Audits, contact:

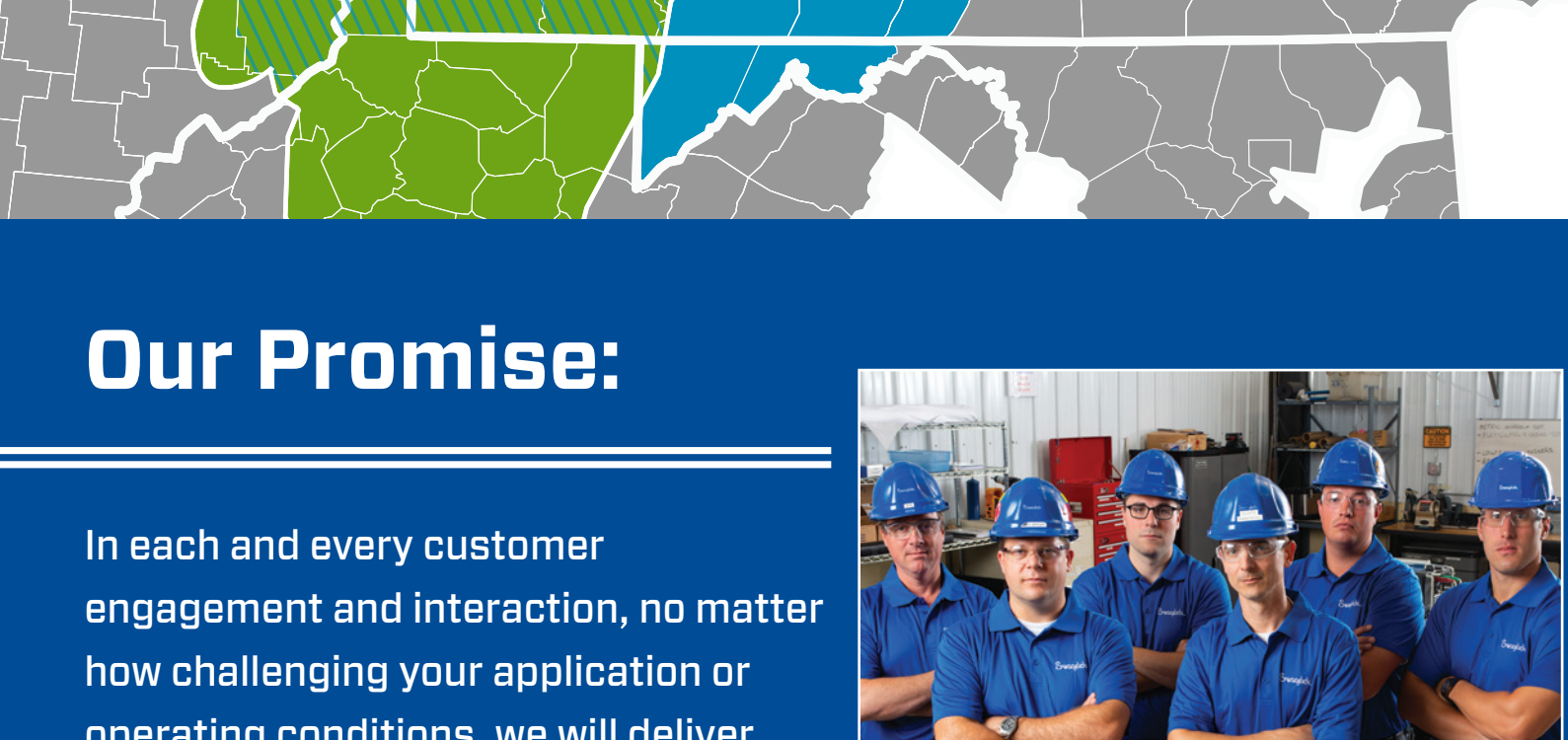
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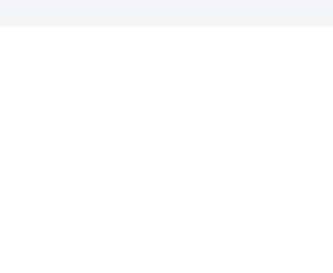


Our Promise:

In each and every customer engagement and interaction, no matter how challenging your application or operating conditions, we will deliver premier-quality Swagelok Fluid-System Product Solutions and value-added Strategic Services that will positively impact your Bottom Line.



WE'RE YOUR SWAGELOK FLUID-SYSTEM SOLUTIONS PROVIDER



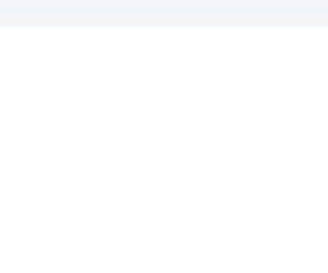
Industry-Best Competency



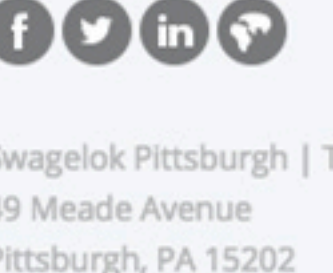
Masterful Custom Fabrication



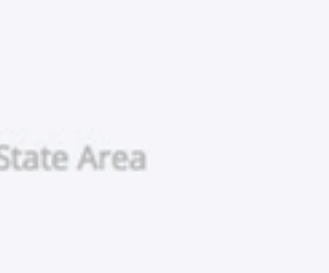
Expert Technical Training



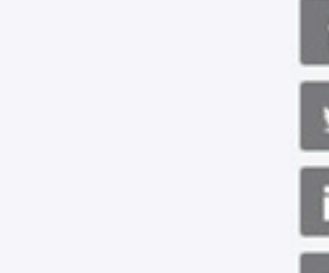
Extensive Energy Evaluations



Unparalleled Application Knowledge



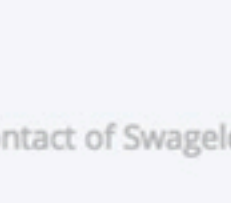
Comprehensive Hose Advisories



Proven Inventory Management Support



Genuine Swagelok Tool Rentals



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



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