

Engineered to Help You Perform

Swagelok understands the pressures you face. We can help you meet the immediate and long-term demands of the nuclear power industry. Safely. Reliably. Responsively. And with the knowledge that the products you choose are especially suited for your applications.



## Our Quality & Reliability = Your Safety

### Minimize risk by choosing Swagelok

We help you reduce workers' collective radiation doses and the cost impact of that exposure.

- Our dedication to quality and reliability leads to longer product life, reducing downtime
- Our products' ease of installation means you're up and running quicker
- Our focus on As Low As Reasonably Achievable or As Low As Reasonably Practicable (ALARA/ALARP) dose reduction protocols decreases workers' exposure times as well.

LEARN MORE ABOUT MINIMIZING RISK ()

LEARN MORE ABOUT OUR CULTURE OF SAFETY AND INNOVATION ()

















Swagelok products make connecting components easier with our unique tube fitting design and high-quality, repeatable oribital welding capabilities, helping workers get in and out fast.

### **SWAGELOK TUBE FITTINGS**<sup>1</sup>

O REDUCTION IN EXPOSURE TIME

Swagelok Tube Fitting Installation = 2 People 120 Minutes 240 Total Minutes

Manual Weld (1 in. stainless steel socket weld) = 3 People 240 Minutes 720 Total Minutes

### M200 ORBITAL WELD<sup>1</sup>

REDUCTION IN EXPOSURE TIME

M200 oribital weld = 3 people 55 minutes 165 total minutes

Manual weld (1 in. stainless steel socket weld) = 3 people 240 minutes 720 total minutes





# Dose Reduction Custom Solutions

Protect your onsite skilled workers from excessive exposure by working with Swagelok's Nuclear Services Group to develop ASME BPVC Section III, Class 1, 2, and 3 assemblies with proper documentation that provide turnkey assembly, rather than onsite connections. A custom assembly can reduce the number of on-site connections.

We can help:

- Speed the development of project specifications
- Minimize problem-solving time
- Reduce engineering costs by providing on-site engineering, technical support, and product compliance reviews.

LEARN MORE ABOUT EASE OF ASSEMBLY





Many Swagelok components meet the nuclear industry codes and standards that you require, including:

- 10CFR50 Appendix B/10CFR21
- ASME Section III—N, NPT, NA
- ASME B16.34, B31.1, QME-1
- ASME NQA-1, ANSI N45.2 and daughter standards
- CSA Z299
- ISO 9001: 2008
- MSS-SP Documents for Valve Manufacturing & Testing
- HAF604 (China), CSA N285 (Canada), RCC-M (France)
- Inspecta (Europe)
- Vd TÜV, European Pressure Equipment Directive (PED)
- METI/KHK
- NUPIC Preferred Supplier List
- F4N Fit for Nuclear certification

Our work with NUPIC, EFCOG, and NIAC ensures our place on nuclear industry preferred supplier lists.















### CFSI Procurement Controls

Material bar stock is inspected to ensure compliance.

- Procurement from melting mill
- Engineering-approved specifications for all raw materials, services, and components
- Material Master defines all referenced specifications and drawings with revision level
- Swagelok supplies raw material to component suppliers

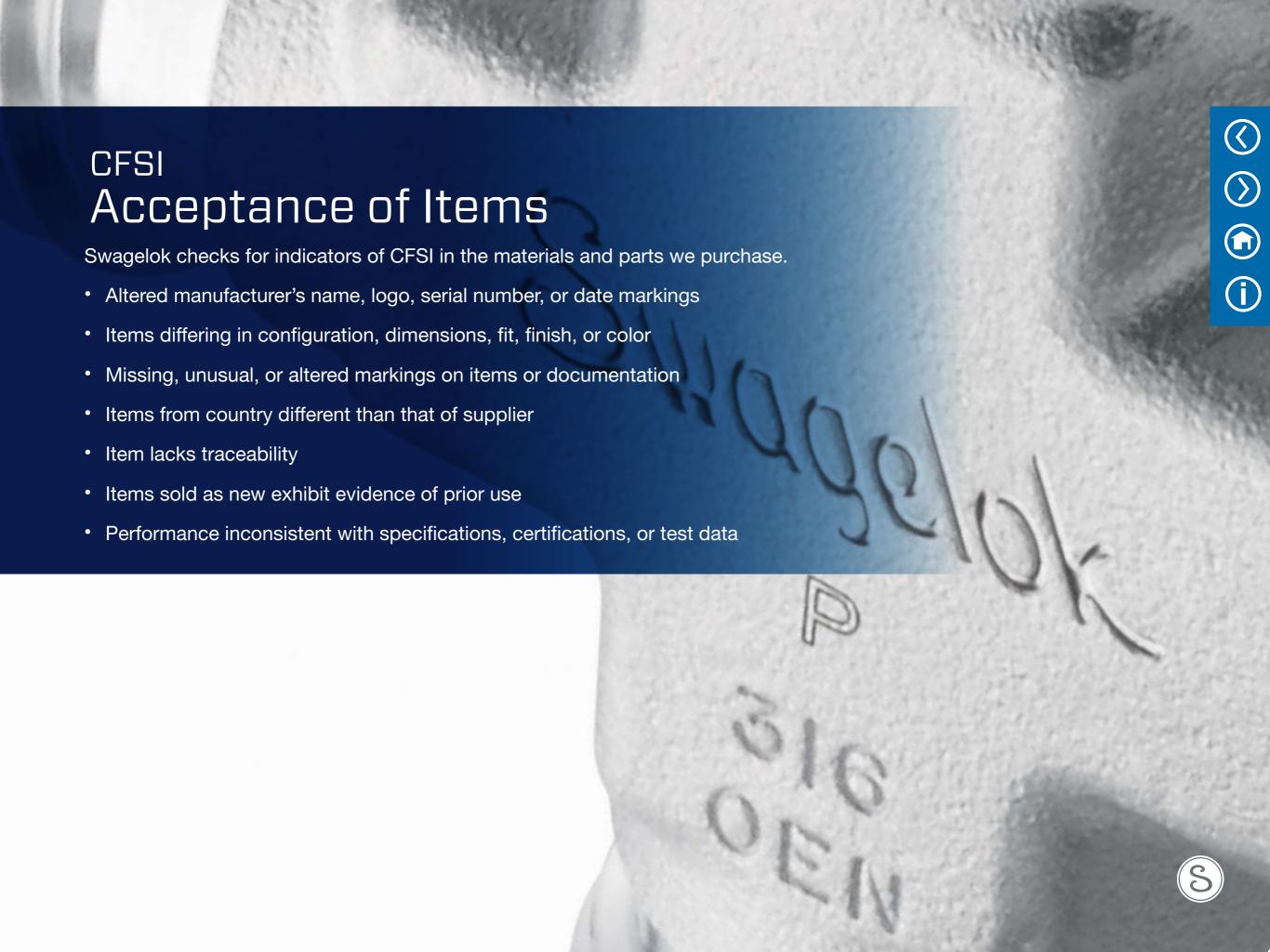
















• ISO 17025 accredited lab

• 10CFR50 Appendix B quality program









### We're Nearby, No Matter Where You Are

Globally, more than 200 authorized Swagelok <u>sales and service centers</u> are fully staffed to suit your needs, from inventory management and on site warehousing to ensure product availability, to on site, in-depth technical assistance, to emergency deliveries and equipment sales and rentals.

Your local Swagelok representative works with you to provide you with the right level of Swagelok resources for an optimized solution to your unique needs.



### Index





**Our Quality & Reliability = Your Safety** 

**Minimizing Risk** 

**Dose Reduction** 

Ease of Assembly

Reliability

**Custom Solutions** 

#### **Code Compliance**

#### **CFSI**

**CFSI** 

Swagelok Helps you Avoid CFSI

**Procurement Controls** 

Acceptance of Items

Supplier Approval

Raw Material Selection

#### **Culture of Safety and Innovation**

Culture of Safety

Culture of Innovation

We're Nearby, No Matter Where You Are







<sup>1</sup>Because of stringent requirements in nuclear power plants, even a seemingly simple task like making a weld requires extended time and greater numbers of personnel to ensure proper setup and inspection. Swagelok helps minimize worker exposure with improved processes over those of traditional installations. Note that the times shown include all required setup and inspection times. Your actual installation times may vary, depending on your specific application.

