

VCR® Metal Gasket Face Seal Fitting Installation



Swagelok Northern California Formal Training Program

Over the last twenty-five years the Swagelok VCR® Metal Gasket Face Seal Fitting has remained the preferred fitting in the semiconductor industry for high-purity gas delivery systems. The fitting typically provides a reliable make-and-break point in an all welded system. You may ask, why do they use a mechanical fitting in an all welded system? To facilitate fast, easy, reliable maintenance.

Components installed in a high purity system tend to be more complex and costly than components in other systems. When these components fail, repairs must be completed quickly, with minimum disruption to facility operation. In the semiconductor fabrication world, time is money.

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**For additional information regarding the
VCR® Metal Gasket Face Seal Fitting Installation**
please contact Swagelok Northern California at:

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The applications and the fluids contained by VCR fittings are some of the most demanding in industry. The fitting must maintain a leak tight seal on the most highly toxic, corrosive and flammable fluids ever developed by man. The fitting must maintain system integrity and purity under a wide range of operating conditions. It must perform reliably in situations where it is reassembled numerous times. Understanding how to optimize the performance of the VCR Fitting is the goal of this class.

The class is a lecture-lab that introduces the students to the functions and the sealing principles of face seal fittings. Correct procedures for assembly and reassembly are reinforced through the use of hands-on demonstrations and exercises.

Each student receives:

- ✓ Useful reference materials
- ✓ Both a certificate of completion that certifies completion of the Swagelok VCR face seal fitting installation training.

The class covers these key areas:

- The key design elements of face seal fittings.
- Proper welding procedures and precautions.
- Considerations when installing the fitting in ultra-high purity systems.
- Review of important installation techniques which will extend the life of the fitting and assure leak tight systems.
- Troubleshooting exercises designed to help the student identify the most common installation errors.
- Identification of VCR gasket types, options and usage.

The course objectives are accomplished through the use of graphic illustrations, video training, product samples and hands-on experience.

System fabricators, contractors and technicians will



benefit from the hands-on installation exercises. Engineer and draftsmen will have a better understanding of how the fitting functions, its strengths and its limitations. Anyone who specifies or purchases high-purity gas system components will find the class very informative.

Class Details

The class is a 2 hour lecture-lab. The length depends on the degree of interaction between the student and the instructor. The class will be at our Fremont facility.

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Contact Swagelok Northern California at:
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