

The
Swagelok®
Tube
Fitting
Advantage **for the
Power Industry...**



Today, everyone is being called upon to “do more with less” and to recognize value. You want to concentrate on what is important, be proactive versus reactive, and install components that you can forget about—minimizing maintenance and rework.

If you are an instrumentation and control professional in a conventional or nuclear power plant, you understand the value of reliable, leak-tight connections to avoid critical and costly issues from:

- Vibration
- Leakage
- Thermal Shock
- Improper Installation

Swagelok developed the original two-ferrule tube fitting and continues to improve its leak-tight design for use in thousands of diverse applications. The patented case-hardening process and back-ferrule geometry produce an excellent colleting grip of the tube, minimizing the effects of vibration. Because this design uses consistent geometry instead of torque for gaugeable make-up, the Swagelok tube fitting can be used on a range of thick- or thin-walled, hard or soft tubing, while resisting the effects of pressure and thermal cycling. Contact your independent Swagelok sales and service representative to see Swagelok's exceptional results in a leak detection survey.

The
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Tube
Fitting

Solutions for the Power Industry...



Industry Concerns **Swagelok's Solutions:**

- 1. Vibration** **The patented case-hardening process and back-ferrule geometry** provide excellent vibration fatigue resistance and tube support—even in harsh or stressful environments, such as fuel processing or rotary equipment applications.
- 2. Leakage** **Excellent gas-tight sealing and consistent reassembly** help ensure accurate measurements of process parameters—air, steam, fuel, and water—to keep your plant operating efficiently. Moreover, Swagelok tube fittings minimize fugitive emissions, as well as reduce process fluid leakage and operation costs.
- 3. Thermal Shock** **The elastic, live-loaded design** compensates for changes in temperature during system start-up and shutdown and helps eliminate leakage related to rapid thermal expansion or contraction.
- 4. Installation** **Simple installation**, combined with consistent gaugeability upon initial installation, minimizes installation error.
- 5. Compliance with Industry Standards** **Swagelok tube fittings meet ASME B31.1** specifications and are available as nuclear ASME boiler pressure vessel code Section III, class 1 certified in 316 stainless steel. Swagelok Company works with standards organizations around the world to provide you with a product that meets your requirements.

Swagelok tube fittings are available in sizes from 1/16 to 2 in. and 2 to 50 mm in a variety of materials, including controlled 316 stainless steel for enhanced corrosion resistance. All Swagelok products are backed by the Swagelok limited lifetime warranty.

For more information, such as laboratory test data, contact your independent Swagelok sales and service representative or visit www.swagelok.com.