

Swagelok

SWAGelok TUBE FITTING ADVANTAGE

Swagelok is your best option for
repeatable, leak-tight connections



Swagelok developed the original two-ferrule tube fitting in 1947, and with 200 active patents worldwide, we continue to improve our proprietary design for use in thousands of diverse applications.

HOW WE OUTPERFORM

Swagelok tube fittings have a **grip-type design** that uses a unique “**hinging and colletting**” action to achieve optimal performance in three key areas:

01

TUBE GRIP

Hinging and colletting action provides **more direct tube contact/gripping support**

02

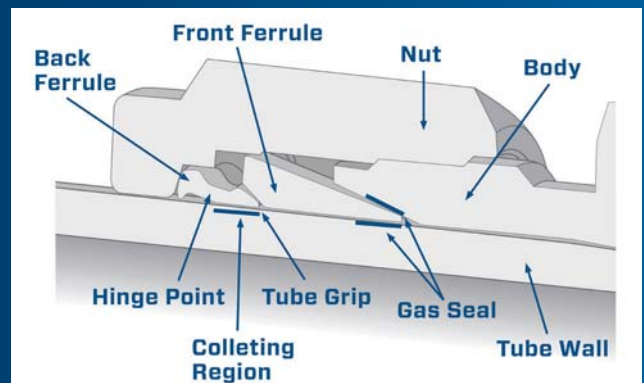
GAS SEAL

Burnishing/polishing action of the front ferrule creates **concentrated zones of contact** on the tube and on the body bevel for a stronger seal

03

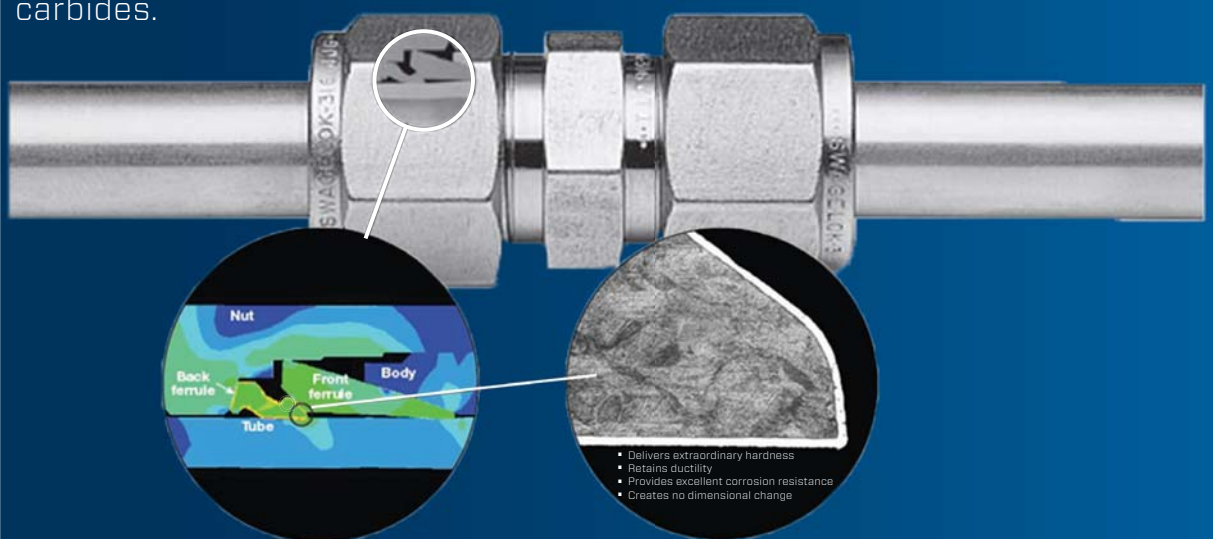
VIBRATION RESISTANCE

the colletting region **better isolates stress risers** at the tube grip to resist bending, deflection, and vibration



ABOUT THE SAT12 PROCESS

SAT12 is Swagelok's unique low-temperature carburization process. It achieves a phenomenal tool steel-like hardness and strength in the ferrule without sacrificing corrosion resistance or material ductility (is non-brittle). In use for nearly two decades, it enriches the surface of stainless and other metal alloys by diffusing carbon atoms between metal atoms without forming carbides.



DID YOU KNOW?

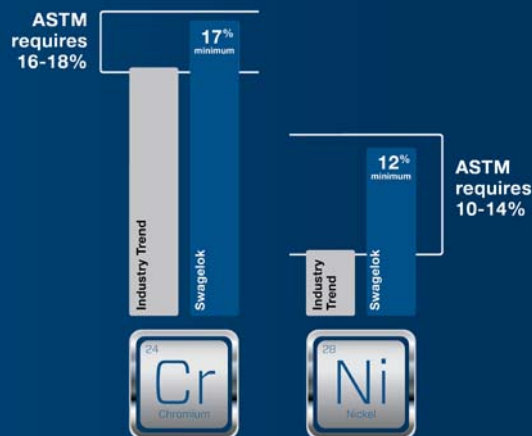
Swagelok has received numerous patents, prestigious awards, and global recognition for the SAT12 process since 1999, including the 2006 ASM Engineered Materials Achievement Award.

MATERIAL AND MANUFACTURING

WHAT IS IN YOUR STAINLESS STEEL?

YOU CAN BE CONFIDENT WE KNOW WHAT'S IN OURS.

Chromium and nickel are critical for corrosion resistance and ductility in stainless steel. Swagelok has maintained chromium content in its fittings at a minimum of 17% and nickel at a minimum of 12% for many years.



UNCOMMON EXPERTISE

Others can try to copy our methods, but can't replicate our **skilled operators, strict process control, and complete traceability.**

Swagelok owns the manufacturing process from start to finish:

01

We forge, machine, electropolish, weld, assemble, and test—all in our own facilities

02

We use optimized top-of-line tools and machining methods across 20 production facilities

03

Our robust Reliability Excellence program keeps equipment running at optimal efficiency

04

Traceability at all phases is an integral part of our overall quality system

05

Our **Limited Lifetime Warranty** is a promise as strong as our products

IT ALL ADDS UP
TO QUALITY AND
CONSISTENCY
CUSTOMERS
CAN COUNT ON.



TESTED TO EXTREMES

Swagelok performs **continuous, rigorous testing on thousands of samples** of production tube fittings to ensure only highly reliable components.

OUR PASSION FOR PERFECTION

- We publish **the most comprehensive book of tube fitting Product Test Reports (PTRs)** in the industry.
- **Ongoing validation tests** ensure fittings consistently meet our most stringent standards.
- We conduct customized testing, **Customer Test Reports (CTRs)** for customers in our state-of-the-art labs, replicating specific conditions for any application.

CONSTANTLY EVALUATING THE
PERFORMANCE OF OUR PRODUCTS
MEANS CUSTOMERS NEVER NEED TO
RE-EVALUATE THEIR CHOICES.

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