



Seal-Lok™ Fittings and Adapters

Unmatched Reliability in All Applications



ENGINEERING YOUR SUCCESS.

Seal-Lok Solutions for Unique Demands.

Parker Engineers to Your Requirements.

Parker has extended the Seal-Lok product line to offer the same leak-free reliability in applications with unique requirements.

Seal-Lok Xtreme

Featuring a patented metal seal that expands its temperature and chemical capability, Seal-Lok Xtreme performs at a temperature range of -328°F to 1,200°F (-200°C to 650°C) and meets all requirements of ECE R110. The SAE J1926 O-ring boss port ends also include a patented metal seal to create a complete solution for extreme applications. With success in thermal cycle, shock, helium mass spectrometer and pressure testing, Seal-Lok Xtreme is ideal for:

- Combustion turbines
- LNG storage and fueling systems
- High-temperature engine compartments
- Instrument panels
- Cryogenic equipment



Seal-Lok for CNG

This ORFS fitting utilizes an elastomeric seal compound engineered to address the needs of the natural gas market. It improves ozone resistance and supports a wider temperature range of -40°F to 300°F (-40°C to 149°C). Seal-Lok for CNG has been tested and certified by TUV according to the following standards:

- ECE R110 regulations (Economic Commission for Europe)
- ANSI NGV 3.1-2014/CSA 12.3-2014 for stainless steel and zinc nickel plated steel fittings (Natural Gas Vehicles/Canadian Standards Association)
- ISO 15500
- Passed Bonfire Testing in accordance with ANSI/CSA NGV 2

Seal-Lok for CNG performs in both infrastructure and on-vehicle applications, including:

- CNG truck fuel systems
- Saddle-mounted and back-of-cab CNG tank systems
- CNG dispensing
- CNG passenger vehicle fuel systems
- On-vehicle CNG fuel and storage systems
- Fleet CNG filling stations



Seal-Lok™ for CNG utilizes an HBNR compound for an elastomeric seal specially engineered for natural gas applications.

Rugged, Fast, Reusable – This Is Leak-Free.

Save Time and Money With Seal-Lok™ Technology.

When operating hydraulic systems that experience constant vibration and severe mechanical shock, protecting your equipment and the environment from leakage is critical. That's why Parker delivers unparalleled reliability with Seal-Lok™ fittings and adapters. Featuring an O-ring face seal (ORFS) design, the industry's most innovative enhancements and operating pressures up to 9,000 psi, Seal-Lok ORFS fittings and adapters ensure the most reliable, leak-free connections on the market. Period.

In addition to providing a more reliable seal than traditional metal-to-metal tube fitting styles, the proven ORFS design offers:

- **Resistance to overtightening**
- **Zero clearance assembly**
- **Unlimited reusability**
- **Superior vibration resistance**
- **Ease/speed of assembly**
- **Field replaceable components**
- **SAE J1453 and ISO 8434-3 compliance**



Seal-Lok fittings and adapters provide an ideal reusable solution across many markets.



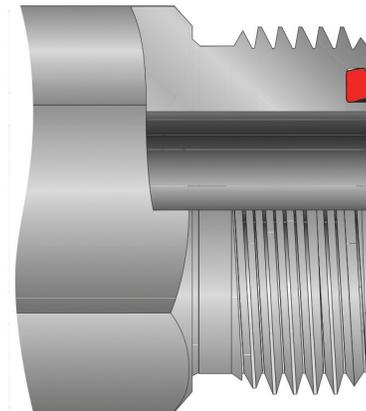
Discover the Seal-Lok Difference.

As a global powerhouse in hydraulic fluid connections, Parker has spent decades developing leading enhancements to the Seal-Lok ORFS product line, eliminating potential issues and extending the fitting's capabilities. These enhancements come standard on all Seal-Lok fittings, arming your equipment with industry-leading reliability.

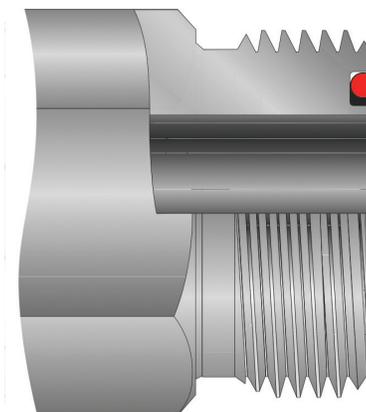
Dramatically Improve Seal Retention.

Parker's exclusive **Trap-Seal™** design proactively protects against O-ring fallout, which can happen during transit, storage and assembly, as well as O-ring pinch, which can occur when an O-ring pops out and gets pinched outside of the groove during assembly. Trap-Seal features a unique trapezoidal shape that removes these risks and eliminates the associated costs of downtime and connection leaks.

O-ring pinch can also happen with SAE adjustable port ends due to thread exposure below the locknut. This can lead to a deformed backup washer, a pinched O-ring and an O-ring extrusion gap with leak potential. To fix this, Parker created the **Robust Port Stud™** that features a longer locknut to cover the uppermost threads on SAE adjustable port end fittings, removing the potential for backup washer damage and leaks.



Trap-Seal in half-dovetail groove



Standard O-ring in half-dovetail groove

The Standard O-ring has limited seal retention that relies upon O-ring pinch. The Trap-Seal, tucked under the groove lip, has very secure retention.



Parker's SAE Robust Port Stud



Current SAE Adjustable Port Stud

Parker's Robust Port Stud features a longer locknut to cover the uppermost threads on SAE adjustable port end fittings, removing the potential for backup washer damage and leaks.

Get Unrivaled Corrosion Protection.

ToughShield (TS1000) Plating outperforms all of the competition by offering the best corrosion protection in the industry. Substantially exceeding the SAE corrosion requirements of 96 hours without red rust, TS1000 prolongs Seal-Lok fitting life by up to 1,000 hours.

Seal-Lok is also available with **Extreme Resistance (XTR) Coating** for equipment in highly caustic environments with urea exposure.



Parker



Competitor A



Competitor B



Competitor C



Competitor D



Competitor E



Pictures and testing were completed by Miami Valley Materials Testing Center – an accredited independent test center.

At 1,000 hours with no red rust formation, tube fittings with Parker TS1000 plating exhibited superior corrosion protection. The Parker fittings far exceeded the 96-hour SAE requirement and outlasted the six competitor brands tested.

Experience Easier Assembly in the Field.

Additionally, Parker **Parflange® technology** eliminates the time and cost associated with welding or brazing by achieving high-quality, consistent flanges – up to 10x faster – using an innovative orbital spindle motion. Parflange units are easy to operate and offer multiple power options and a simple tooling change for flanges. What's more, Parker offers a full range of Parflange machine options to meet any production or space need.

Parflange machines and tooling, as well as other tube fabrication equipment, are available for rent. This is perfect for short-term and prototype jobs.



1025



ECO 25



PRO 50

From a compact, table-top unit to a production-grade machine, Parflange is available in a range of options to meet your needs.

Call **614.279.7070** or visit www.parker.com/promotionsite/seal-lok-orfs-fittings to learn more about how Seal-Lok technology can make a difference in your application.

Parker Fluid Connectors Group

North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

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