



Catalog 4300
August 2006

Industrial Tube Fittings, Adapters and Equipment



The World Standard



Our snowflake principle.

(Since no two applications are the same.)

Why work your designs around parts somebody else designed, just because they're available? We have an entire facility dedicated to delivering custom fittings, manufactured precisely to your specs or drawings and in record time – whether you need 2,000 or just that one-of-a-kind. Chances are it'll cost less than you thought, too. **So if you can't find the right fitting, adapter or flange within this catalog, call 1-866-222-2267.** Or e-mail inquiries regarding quotations to customfittings@Parker.com. You'd be amazed at the cool stuff we can do together.

WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

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Tube Fittings Division
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PRODUCT SPOTLIGHT

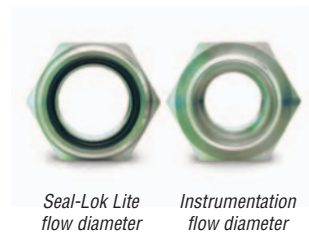
The latest from Parker, still your fitting authority.

Seal-Lok™ Lite

the compact, high-flow tube fitting

For high flow at low- to medium-pressure applications, such as fluid conveyance in fuel cell systems and semiconductor manufacturing, Parker's stainless steel Seal-Lok Lite fitting provides a remarkably compact, reliable solution:

- Shorter thread lengths and larger flow diameter than instrumentation-grade and traditional industrial hydraulic fittings
- The assembly and leak-free performance advantages of Seal-Lok ORFS (SAE J1453)
- Adaptable to Parker Flexflange™ and similar light-duty flexible corrugated stainless steel tube, flexible hose interfaces, as well as hard-line metallic tube
- Parker Parflange® method can be used, saving time and cost
- Torque method can be used, assuring more consistent assembly



Seal-Lok™ H₂ Fittings & Adapters

for onboard hydrogen and CNG fuel systems



In today's efforts to maximize fuel cell vehicle driving range, Seal-Lok with enhanced H₂ technology fulfills a key role. This "Parker Exclusive" series offers the industry's only O-ring face seal (ORFS) type and positionable fitting approved for 700-bar (10,000 psi) hydrogen service. The full range of these stainless steel fittings and adapters is:

- Specifically designed with an enhanced sealing arrangement and approved O-ring compounds for on-board vehicle hydrogen storage and delivery systems
- Also approved for on-board vehicle compressed natural gas (CNG) storage and delivery up to 350 bar (5000 psi).*
- Designed with Parker's new H₂ stud and H₂ port – which is compatible with standard SAE connectors



*Series meets the requirements of E1HP Draft 12b, as tested by TÜV, and is the only fitting with approval for this demanding application.

**Seal Lok fittings and adapters in both steel and stainless steel material with tested O-ring compound are approved to the ECE R110 regulation and ISO 15500 standard.



Triple-Lok[®] 2

the soft-seal stainless steel 37° fitting

For a long-lasting, highly reliable seal, Parker's Triple-Lok 2 combines the versatility of our stainless steel Triple-Lok with an elastomeric seal design.

- Incorporates a replaceable soft seal in nose of flare, positioned to achieve leak-free connections without compromising fitting strength
- Up to 20% higher working pressures than standard stainless steel 37° flared fittings
- Features Parker's patented Robust Port Stud™ for easier assembly and further improved reliability for adjustable fittings
- Specially engineered groove design prevents nose collapse for assured field performance
- Can be used with standard flared tubes and hose ends – and uses standard O-rings in most sizes for further convenience and savings



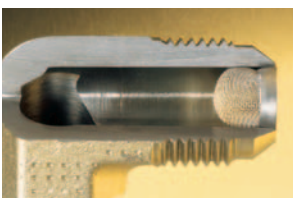
Parker Screen Fittings

for critical components and applications



Particles can find their way into a system during installation, maintenance and by other means. Critical and valuable components need one last line of defense. Parker screen fittings, implemented in addition to your filtration system, provide “protection at the connection.”

- Ideal for protecting gauges and instrumentation, critical hydraulic components, precision orifices and expensive components in test bench circuits
- Retain particle sizes from 480 to 65 microns, depending on screen rating
- For hydraulic or pneumatic applications – constructed with stainless steel screen elements and available in standard fitting configurations, Triple-Lok 37° flare and Seal-Lok ORFS types
- Tested to determine the maximum pressure drop, screen retention and bi-directional flow capacity

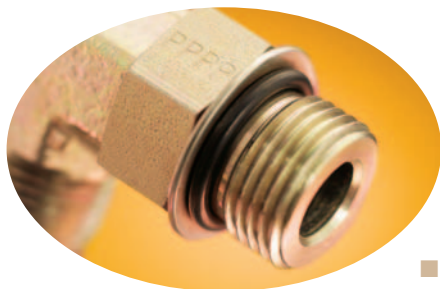


PRODUCT SPOTLIGHT

The latest from Parker, still your fitting authority.



At Parker, we never stop pursuing perfection. We're always working to further assure leak-free performance and make components maintain their like-new integrity longer. The results are advanced connection enhancements, or ACEsolutions. Starting with exclusive innovations like these, we're continuing to set new standards in performance and savings for you.



Robust Port Stud™

improved SAE adjustable port stud

The Robust Port Stud allows for easier, mistake-proof installation in the field – and eliminates the potential for backup washer damage that can lead to leaks.

- Longer locknut provides more area to “wrench,” while keeping the threads covered
- No need to retrofit any parts – functional dimensions are same as current SAE adjustable connectors

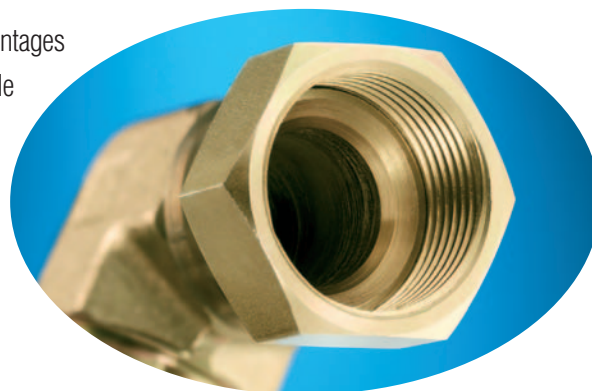
Just three basic assembly steps ensure that it's done right the first time: Thread the connector into the port. Back it off to align the tube end. Tighten the locknut.

Triple-Lok® Swivel Connection

improved performance by design

Higher pressure ratings and greater reliability are among the valuable advantages of our enhanced Triple-Lok female connection design. It features a dual-angle seat that accepts both 37° and 45° flare fittings – and repositions the sealing location away from the tip of the male nose. Compared with the previous swivel design, the resulting benefits include:

- Increased pressure ratings in most sizes (in fact, 72% higher than competitive product)
- Sealing position that helps protect cone and nose, and improves connection reliability
- Dual seat acceptance of 37° (all sizes) and 45° flare fittings (sizes 4, 5, 8, 10)
- No difference in overall swivel nut or fitting body size, no change in torque or assembly method



Trap-Seal™

innovative O-ring enhancement



Imagine, a seal that doesn't get pinched and fail prematurely. Parker's Trap-Seal, with its consistently positive retention in the groove, essentially eliminates the possibility of pop-out that can occur with standard round-shaped O-rings.

- Trapezoidal seal shape improves retention within Seal-Lok's ORFS groove
- Virtually eliminates costly leakage and/or pre-assembly handling time
- Significantly reduces need to replace/reinstall seal
- Standard O-ring can be used in field replacement (groove design unchanged)
- Same material and hardness (90 Durometer Nitrile) as Parker's standard O-ring

Chromium-6 Free

plating changes for new global standards

With the use of hexavalent chromium (Cr6) restricted in Europe, we've changed our metal plating process for the better. Our Chromium-6 Free process results in a new generation of characteristics in our metal fluid-connection components, including:

- Silver (no longer gold) appearance
- Safer for the environment
- Improved corrosion protection over previous plating
- No changes in assembly method or torque
- Packaging labeled "Chromium-6 Free" for easy identification

It's just one more example of Parker's drive to keep our products – and yours – in ready compliance with changing global requirements.

Parflange® Technology

the revolutionary tube connection system

Cut your tube assembly time by as much as 75%. In one quick operation, the Parflange process perfectly flanges (90°) or flares (37°), providing a reliable seal for high-pressure tubes up to 1-1/2" or 38 mm O.D. without brazing or welding – for a leak-free connection every time.

- Eliminates time-consuming pre-cleaning, post-cleaning and x-ray operations, as well as the need for cleaning solvents, weld rods, acetylene or flux
- Utilizes a patented orbital spindle process to produce a reliable flange with a smooth mating surface
- Creating a flat face requires no special skills and can be completed in fewer than 20 seconds

Available models include the 1050 WorkCentre for large-scale industrial production and the bench mountable 1025.



Custom Products

for applications as different as snowflakes

Parker Tube Fittings Division can manufacture custom products to your specifications, your drawings, or world standards – whether you need thousands or just one of a kind. And by turning to us, you can typically reduce your lead times and the price of lower-volume parts. With our exclusive Rapid Response system and integrated computer-to-machine technology we can:

- Produce new parts in remarkably short time frames
- Reduce machine set-up times
- Produce smaller-run quantities
- Respond to emergency orders within hours, not days

Next time you have a great idea or an urgent requirement, call Parker and ask for "custom fittings."

