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# Industrial Tube Fittings Europe

Technical handbook



Your local authorized Parker distributor



EMEA Product Information Centre

Free phone: 00 800 27 27 5374

(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

US Product Information Centre

Toll-free number: 1-800-27 27 537

www.parker.com

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## Industrial Tube Fittings Europe

Technical handbook/Catalogue 4100-10/UK



ENGINEERING YOUR SUCCESS.



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# Parker Hannifin – Professionals in System Solutions

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



Parker Hannifin is the world's leading manufacturer of motion and control technologies. The company develops and designs systems and precision solutions for mobile and industrial applications as well as the aerospace industry. Parker Hannifin employs around 58,000 people in 49 countries.

The Company's main business objective is to help customers achieve maximum productivity for their applications with the support of professional Parker engineers. This is achieved through innovative, top quality and reliable proprietary products. These can be delivered quickly thanks to a worldwide sales network. Parker is the consummate provider of customized system solutions.

Video



# The strength of Parker

Under the umbrella of the Fluid Connectors Group Europe, Parker Hannifin brings together the connector technology of the brands Ermeto, Legris Transair, Legris Connectic, Legris Auto-line, Polyflex, ITR, Rectus, and Tema. Whether it be tube fittings, hose fittings, or hoses, Parker offers the most comprehensive range available from a single supplier.

As part of the Fluid Connectors Group Europe, Tube Fittings Division Europe (TFDE) is one of the largest businesses in Parker. The foundation stone for enduring business success was laid with the development of the Ermeto cutting ring. Nowadays, flanges, valves, tubing, measuring systems, and tube forming and pre-assembly machines, besides the classic DIN and SAE fittings, are manufactured in several locations.

Video



Whether standard parts or application-specific special developments, the Parker product programme offers an appropriate solution for every customer requirement.



# Always new product ideas

## Innovations secure the future

Without new product ideas there would be no progress: Parker has an efficient product development program in the form of the Wino-vation Program. From the initial idea through to market readiness, every stage is checked to

exacting criteria before it moves on to the next project phase. This is how the customers are guaranteed beneficial products ready for series production, that work reliably from the first use and over the long term.

### A world first: EO-3®

With an indicator ring for clear installation result. Leaks are avoided thanks to the clear installation monitoring. Increase the machine power and reliability. Additional costs due to reworking are avoided. EO-3® complies with the increasing quality and safety requirements of the market.

[www.parker.com/eo3](http://www.parker.com/eo3)

Video



### Complete Piping Solutions

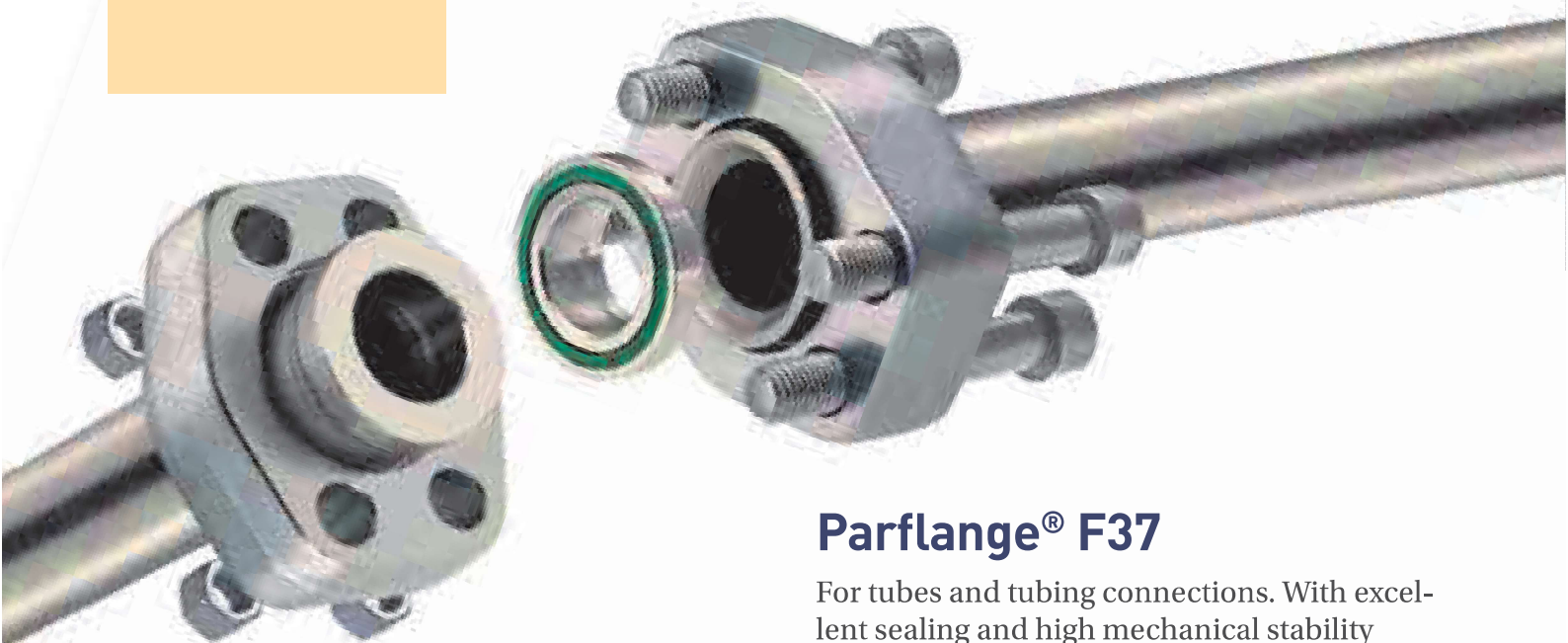
Complete Piping Solutions is the high-quality complete solution in weld-free connection technology for hydraulic systems. From advice on construction and pre-assembly through to delivery and installation - all in the best quality and reliability. Saves a huge amount of time and money.

[www.completepipingolutions.com](http://www.completepipingolutions.com)

Video



**The Parflange F37 program** is operation-friendly and environmentally friendly technology. Production times are reduced by more than half when compared to conventional welding.



## Parflange® F37

For tubes and tubing connections. With excellent sealing and high mechanical stability thanks to continuous orbital tube forming. Intended for tubes with an external diameter of 16 to 165 mm, a wall thickness of up to 9 mm and a pressure of up to 420 bar.

[www.completepipingsolutions.com](http://www.completepipingsolutions.com)

Video



## Serviceman Plus

Mobile measuring technology for daily use. „Plug & Play“ through automatic sensor detection. Simply plug in and measure. New storage concept with Nano USB stick. USB interface to the PC for comfortable analysis and documentation of the measurements via the SensoWin software.

[www.parker.com/tfde](http://www.parker.com/tfde)

Video



### **Serviceman Plus – the benefits in hand**

The Serviceman Plus is a mobile, very robust, and easy-to-operate measuring device for various measuring tasks in mobile hydraulics or stationary hydraulic systems.





# Markets Create Brand Names

## Suitable Designs for Every Need

Partnership through cooperation with the customer is the defining characteristic of Parker's product policy. With a keen sense of the customer's needs and the requirements of different markets, Parker's engineers develop appropriate solutions.

Finally, these are products which have world-wide recognition as a byword for consistently high quality of materials and manufacture, and reliable functionality.

[www.parker.com/tfde](http://www.parker.com/tfde)



### E0-PSR



**The world's most widespread high-pressure fittings system.** Highest pressure resistance and extreme corrosion resistance thanks to Cr(VI)-free surfaces. Perceptibly reduced tightening torques. Considerable assembly advantages.



### E0-3®

**E0-3®, a world first:** The innovative tube fitting system with visual installation recognition. For tube and hose applications.



### The tried and tested Dry Technology concept.

Has a large volume elastomeric seal on the tube side and Cr(VI)-free surfaces, which are very corrosion resistant. Suitable for 800 bar (PN) in S Series and up to 500 bar (PN) in the L Series.

### E0-2







## E02-Form

**The positively locking high-pressure form connector.**  
Special features – classical E0-2 sealing ring and cold-formed tubing. Impressively superior mechanical strength and maximum pull-out resistance. For 800 bar (PN) in S Series and up to 500 bar (PN) in L Series.



## O-Lok®



**Fittings series with face-side O-ring seal.**

Suitable for a wide range of tube wall thicknesses. Applicable to metric and inch tubes and hose connections.



## 37° flare system.

The most widely used fittings system for inch tubes. For pressures up to 500 bar for smaller sizes and up to 140 bar for larger dimensions.

## Triple-Lok®



## The Parker Service Master Plus. Portable multi-function hand-held measuring instrument.

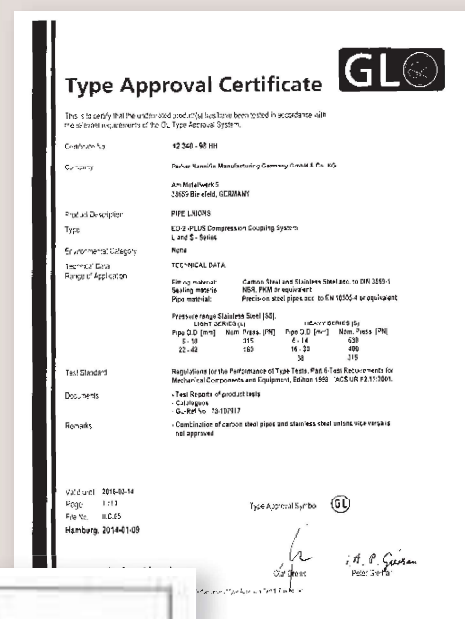
Measures, stores, monitors and analyses pressure, temperature, flow and rotational speeds. Multiple measurement and triggering methods. Measurement and display of more than 50 channels.



# Certified products are...



The Parker management of quality and environment is certified by ISO 9001, ISO/TS 16949, DIN/EN/ISO 14001 and IRIS.



...official proof for the user that Parker components satisfy the highest standards for design features, material quality and machining. When applying the product at the point of installation, approval is frequently an absolute necessity.

Whether ABS, LR or DNV, Parker products regularly pass the international and independent accreditation bodies' stringent tests. So suitability for reliable application even under the toughest conditions is officially confirmed.

Please look for approvals at [www.parker.com/tfde](http://www.parker.com/tfde)



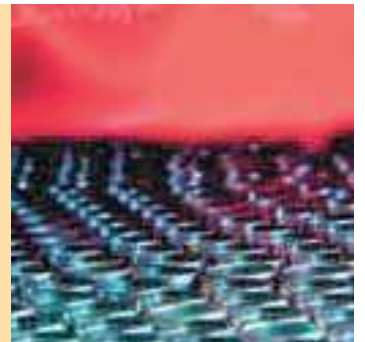
## ...of excellent quality

The manufacture of quality high-performance fitting components starts already at the ordering stage for the crack-tested primary material, which must be in accordance with Parker material specifications specially determined for product manufacture. Through the processing stages required both before and after production, those properties which will fulfil constantly increasing material requirements are guaranteed.

To ensure that the high quality of the materials used and the tube fittings made from them are guaranteed, continuous tests e.g. spectral analysis and dye penetration tests, are carried out in our own laboratories and testing facilities. The fittings systems' resistance to corrosion and static and dynamic loads are put through their paces on in-house test stands.



Top-class products result from selected materials and the most up-to-date manufacturing methods. Functionally reliable and durable. Quality pays off.





# The Parker Training Programme

The Tube Fittings Division Europe's education programme is widely diversified. From theoretical product training through to practical instruction, a large variety of training opportunities is offered. This multiple choice training concept from Tube Fittings Division Europe, in addition to the regular events at the Bielefeld location, also offers the possibility of arranging customer-tailored in-house training. These

training units are executed with the support of the very latest media and take place in modern teaching rooms. With the knowledge they will have gained, participants are in a position to operate more efficiently and to select and use the TFDE fittings programme advantageously and safely. Ask Your Parker sales office for this training programme.



Basic or for experts – Parker offers a broad range of trainings. Tailormade for individual requirements.

in der Praxis  
practice

ENGINEERING YOUR SUCCESS.

Montage in der Praxis  
Assembly in practice  
TFDE CD 4153-UK/DE  
Version 1.0

**Parker**

**Parker**

EO-3<sup>®</sup>

- Innovative, 18° visual sensor and base app
- Indication
- Tape: 100% safe area
- Compact, ideal for
- Soft sensor, ideal for
- Machine EO 100

# Service before and after sales

To support its products, Parker offers its customers a comprehensive selection of services, i.e.

## **The Parker Store**

Providing outstanding expert consultation, it was one of the first self-service shops for hydraulic and pneumatic fittings – and much more besides. It offers immediate manufacture of hose assemblies. Up to 3,000 items from stock.

## **Parker Hose Doctor**

This emergency service can be reached via a toll-free hotline 24 hours a day, 7 days a week. Hose Doctor vans have fully-equipped workshops, spare parts and hydraulic oils on board. This enables the technician to rapidly replace faulty assemblies on site.

## **Tech Services**

Together with the customer, Parker engineers assess on site the optimal operation of the equipment in question. They are present from the design stage through to installation and carry out training for operatives.

**More than a product:**  
Parker offers an elaborated service to the customers.

## **Kitting Services**

Should the customer require a particular set of fittings and related items, Parker can supply these items under a single reference number as a totally complete assembly set.

## **Parker Logistic Services**

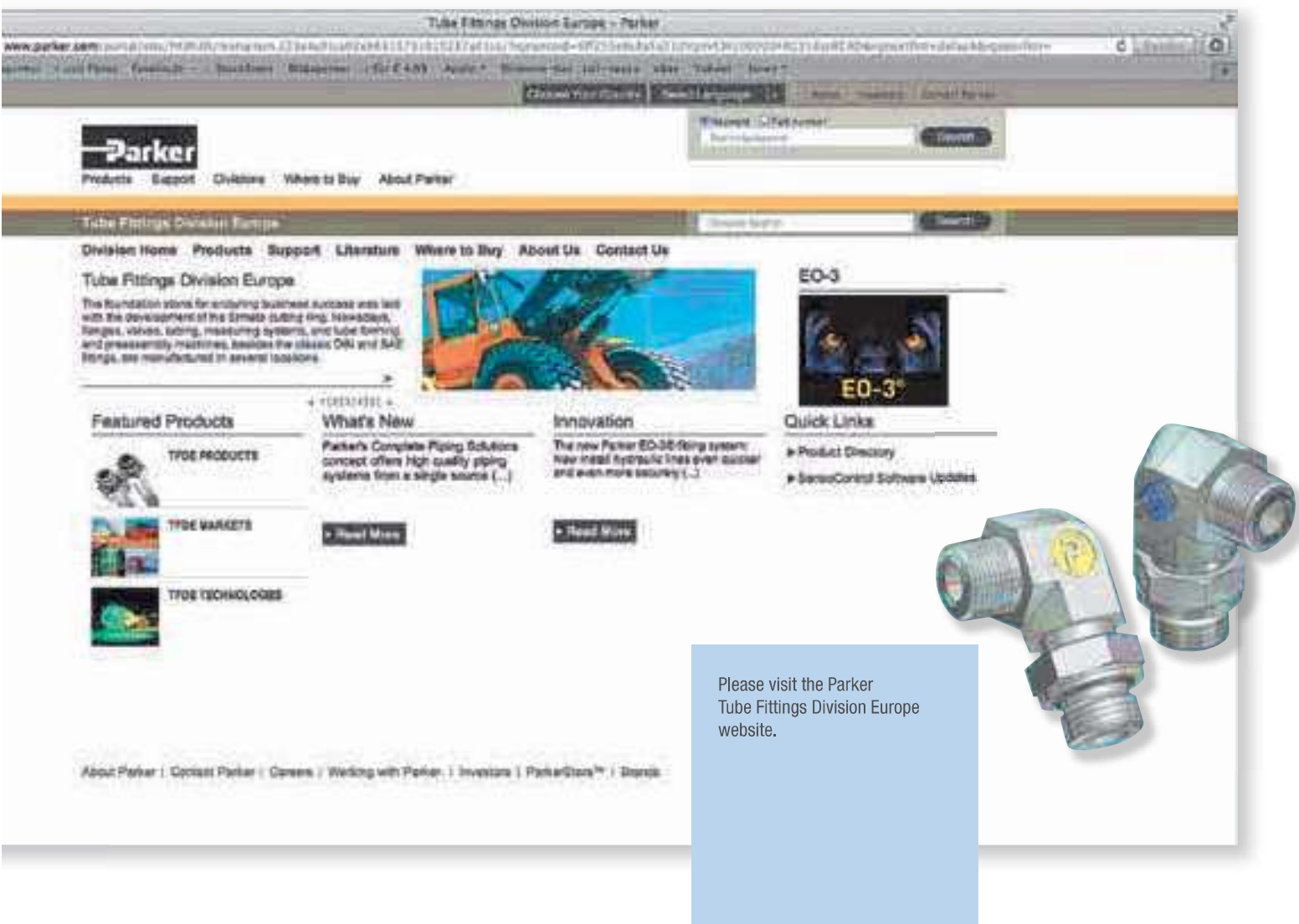
Parker products can be supplied either directly from Parker or through a certified distributor on a just-in-time basis straight to the assembly point.

[www.parkerstore.com](http://www.parkerstore.com)





# Online: Tube Fittings Division Europe



Whether it be product information, catalogues, brochures or approvals, all the information you may require can quickly be found on, and downloaded from, our website

[www.parker.com/tfde](http://www.parker.com/tfde)

Or if in your design activities you need CAD data for any TFDE product, simply visit our website

<http://parker.partcommunity.com/portal/portal/parker>

and you can then download the relevant data after prior registration.

