



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



Fluid Connector Products

Everything from a single source – with innovative solutions for the future.



ENGINEERING YOUR SUCCESS.



The company

Parker Hannifin is a global Fortune 300 company. As the worldwide leading supplier of motion and control technologies, Parker supports its customers in 49 countries. Parker develops and engineers components and system solutions for hydraulic, pneumatic, and electromechanical systems and applications that customers can rely on.

- More than 13 billion USD in sales
- 312 plants worldwide
- 13,000 distributors
- 465,000 customers
- Serving 1,200 distinct markets
- Listed as PH on the New York Stock Exchange

Let Parker become part of your design team. Whether you need to develop new products, redesign existing applications, or design completely new systems, Parker offers unparalleled engineering expertise.



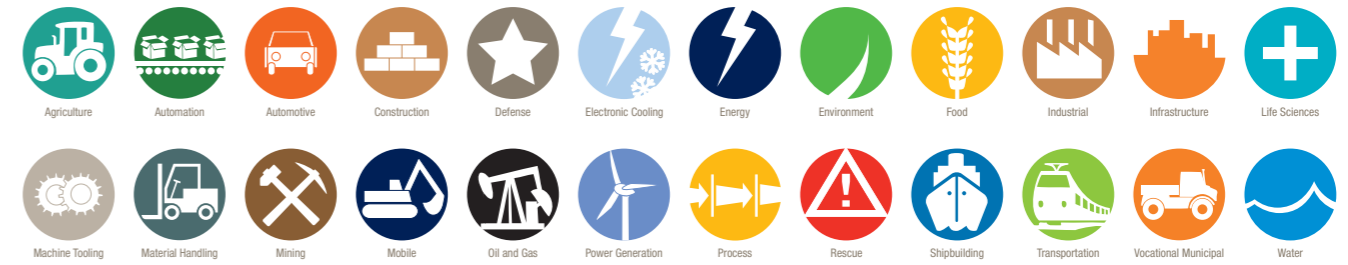


The path to success

Discover our wide product portfolio and system solutions from a single source.

Parker's Fluid Connectors Group Europe is one of several major Parker manufacturing and marketing groups. It specialises in components used to connect various parts of fluid systems in virtually every major industry. One or more types of any Parker component are used in vehicles, power plants, ships, chemical plants, computers, machine tools and many other applications.

The Fluid Connectors Group Europe manufactures and markets the widest range of connectors, including hydraulics and pneumatic fittings, quick couplings, and rubber and thermoplastic hoses. These components are available in a large variety of materials, such as steel, stainless steel, brass, thermoplastic and rubber, and may also be supplied in other materials. The group also offers a range of tools and equipment for hose assembly, as well as sophisticated systems to measure pressures and temperatures.



We set signs

“Innovation happens off the beaten path” – in order to best match your application challenges to Parker products, the icons on the following pages should guide your way in choosing reliable, high quality materials and manufacturing worldwide. Parker has the right solution for every market: Parker develops the desired solution for our customers.

See the signs of time and find the products matching your demands.



EO-2



Fitting system with elastomeric seal.

The common feature of all EO-2 fittings is elastomeric seals on all joints. These are also available in

FKM for applications with higher temperatures or aggressive media. EO-2 offers many advantages: Leakfree, reliable, stable function of the entire construction. Long life time cycle. High corrosion resistant Cr(VI)-free surface. Fast, simple and safe assembly by sealing ring, integrated in functional nut.

Customer Benefits

- Cr(VI)-free surface protection
- High sealing capability
- Excellent durability
- Defined bite-control
- Noticeable assembly stop
- Reliability
- Available in steel and stainless steel



CAT/4100

EO-PSR

Progressive Stop Ring for steel fittings.

The EO-PSR fitting produces high pressure, leak free connection of tubes and components in hydraulic systems. The basic function of EO-PSR is the controlled progressive bite of the EO-PSR into the tube due to a unique internal geometry.

Customer Benefits

- Cr(VI)-free surface protection
- High pressure up to 800 bar
- Safe assembly
- Overtightening protection
- Available in steel and stainless steel



CAT/4100

EO2-FORM

EO2-FORM is the high pressure formed tube generation.

The common feature of all EO2-FORM connections is the EO-2 seal elements as well as the cold forming process, that gives extreme rigidity and low tightening torques. Compared to welding or brazing, the EO2-FORM process is faster and easier. It does not require special tube treatment, heating or chemicals.

Customer Benefits

- No welding
- Cost saving
- Forming process
- Clean and Safe



CAT/4100



EO-3®

The innovative fitting system with visual indicator ring. For tube and hose assemblies.



CAT/4131-2

The EO-3® fitting series offers many advantages: Indicator ring for unambiguous assembly outcomes. Leakage due to over- or undertightening is prevented. Taper thread as new thread design simplifies the assembly, assembly time is reduced. The tearout-proof connector technology increases the safety of the whole system. Thanks to compact design, EO-3 fittings are faster and easier to assemble, even by restricted space. The soft seal is integrated in the cone and cannot be damaged or lost.

Customer Benefits

- Leakage is prevented by unambiguous assembly inspection
- Increased machine performance
- EO-3® meets increased safety and quality measurements now in force
- Avoids additional costs for reworking



Serviceman Plus

Mobile measurement technology for daily use.



CAT/4054

The new Serviceman Plus is a mobile, extremely robust and easy-to-use measuring device for many measurement tasks in mobile hydraulics or stationary hydraulic systems.

With the automatic sensor recognition you can simply plug in pressure, temperature, flow or speed sensors and start the measurement immediately. It is easy to use without setting the sensor parameters; the measurement ranges are scaled automatically and the measure is shown on the screen.

Customer Benefits

- CAN Technology
- Plug&Play Functionality
- Cable length up to 50 m
- Low wiring expenditure
- High interference resistance
- Robust (IP 67)

The Parker Service Master Plus



Mobile multi-function handheld measuring device.

Mobile, robust and easy to operate. Pressure, temperature, volume flow and speed can be measured, monitored and analysed. Total memory for more than 1 billion measured values.

Customer Benefits

- Functionality, CAN, LAN- and USB-interfaced
- Plug & Play Functionality
- Project templates can be stored and loaded
- More safety by automatically recorded measured data



CAT/4054

Tubes and tube clamps

Variety in Materials and dimensions.

The tube programme from Parker Hannifin gives all possibilities for usage in hydraulic applications. Tubes for fitting- and flange-systems, tubes for mobile and stationary systems. Different dimensions, carbon- and stainless-steel tubes as well as different surfaces are available.

Customer Benefits

- Increased constructive abilities by large range of products and materials
- Delivery from a single source for fast and easy order process



CAT/4100

Valves

Important components for more safety.

Ball valves, non-return valves, test points - broad product range from a single source. Many materials for different applications. For more safety and higher functionality of hydraulic equipment. Fast and easy to order.

Customer Benefits

- More constructive freedom by broad range of products and material
- Fast and easy to order from a single source



CAT/4100



Parflange® F37 and Complete Piping Solutions

High-quality Pipe- and Flangesystems.

Compared to conventional welding, leakfree tube systems can be done much faster and cost saving with the Parflange F37 technology. With soft sealing at every connection point. For tubes up to 165 mm outside diameter, wall thickness up to 9 mm and pressure ratings up to 420 bar. Hole patterns according ISO 6162-1, 6162-2 and ISO 6164. Parflange F37 is part of the modular Complete Piping Solution system: From consulting and engineering up to the installation of customized hydraulic systems, the customer decides about the configuration of the service package.



CAT/4162

Customer Benefits

- Less production steps: Cost saving, faster than welding
- Increased value by customized solutions
- Worldwide available technology offer more flexibility

O-Lok®



High-pressure fittings with O-ring face seal.

The O-Lok® fitting is an O-ring face seal (O.R.F.S.) type fitting that consists of a nut, a body, an O-ring and a sleeve. Parker O-Lok® fittings come standard with a trapezoidal seal „Trap Seal“. The tube is flanged to 90° using the Parflange® system. Fitting series for long operating duration. Many applications by high pressure ratings.

Customer Benefits

- No seal fall out due to CORG-design
- For hose- and tube connections
- For metric and inch tubes
- Ease of assembly
- Over torque capability
- Available in steel and stainless steel



Triple-Lok®

The most widely used fitting for inch tubes in the world.

The appeal of the 37° flare fitting is in its simplicity, compact design, ease of assembly, reliability, wide availability and acceptance. It is especially suited for low and medium wall thickness tubing. Suitable for pressures up to 500 bar for small sizes and up to 140 bar for the largest sizes.

Customer Benefits

- Broad range of applications by increased pressure ratings
- Individual bagging avoids rework caused by contamination
- More constructive potential by broad product range



Power in Stainless Steel

The Stainless Steel Programme of the Fluid Connectors Group.

Fittings, Couplings, hose adapters – the Parker Stainless Steel Programme has a broad range of products for many applications. Worldwide available and with approvals of international institutes, e.g. ABS or GL.

Customer Benefits

- High corrosion resistance to aggressive media and environmental influences
- Higher temperature resistance than steel
- Rust and acid resistant, no further surface protection needed





Compact Spiral Hose



The next evolution in hydraulic hose.

Compared with conventional spiral hose, Parker's Compact Spiral™ 787TC/797TC hose offers measurably greater advantages in routing and installation, product size and weight and inventory savings. Compact Spiral™ was developed in concurrence with the industry trend toward high-pressure hose manufactured to ISO specifications.

Customer Benefits

- 1/3 less effort to bend
- Nearly 30 % smaller O. D.
- Tested to 2,000,000 cycles
- High abrasion resistance
- Simplified fitting selection
- 25 % less hose weight



BUL/4480-B150/UK



Global Core

Five Hoses, two fittings, one solution.



Providing a simple solution of robust hydraulic hoses designed to endure the tough conditions where work gets done, Global-Core is the future that OEMs and end users around the world have been asking for. GlobalCore is designed to meet the most common working pressures in industry and serves customers around the world with a simple family of constant working pressure hoses. With only five hoses, OEM and MRO customers alike will enjoy selecting the right hoses based on working pressure.

Customer Benefits

- Tested to twice the ISO 18752 standard
- Simple fitting selection: Series 43/48 with 2,500+ configurations
- For higher pressures 77 series with 500+ configurations
- Produced worldwide with identical performance, manufacturing specification

High Pressure Hoses and Fittings

Three Systems for Heavy Duty Performers.

The systems consists of integrated ranges of hose, fittings, assembly equipment and know-how. All designed, developed, tested, approved, produced and supplied together. Parker guarantees highest quality, safety and the longest service life of the final product. Meets requirements of SAE J1273 and ISO 17165-2.

The Systems

- Multispiral Parkrimp No-Skive: crimpable with Parkrimp System, without removing rubber cover
- Compact Spiral Interlock No-Skive
- ParLock Interlock Skive: crimpable with adjustable crimpers, internal and external skiving (Interlock)



CAT/4400/UK

Rail Hose

Hose Range for the European Rail Transportation.

Parker offers system solutions for rail transportation and meets the new European rail standard EN 45545 which includes the defined high hazard level (HL-2) or highest (HL-3). All hose types are according to the requirements of the fire test ISO 15540.

Customer Benefits

- Low-, medium and high pressure hose types
- Textile or steel wire braids
- Flame retardant and toxicity cover
- Hose dimensions from DN 6 to DN 52
- High working temperatures up to +125 °C



BUL/4480-B39/UK



Parkrimp® No-Skive System



Make your own leak-free hose assemblies whenever you need them.

It's so easy to crimp your own hose assemblies whenever you need them. Parkrimp® No-Skive – the system for leak-free hose assemblies with No-Skive one-piece fittings. Learn more at www.easy-crimping.com

Customer Benefits

- No need to remove hose cover
- One-piece NoSkive-fittings
- No gauges to set on machine
- Portable crimpers for field repairs
- Meets EN safety regulations



BUL/4480-B42/Uk



Elite No-Skive Hose

Reliability. Performance. Sustainability.

The new wire braided Elite No-Skive hose range with outstanding technical properties such as superior tough hose cover exceeds the EN specifications and meets the OEM and MRO requirements of today and tomorrow. The range also includes a new chlorine-free hose type with a smooth pure nitrile inner tube - a hose which is environmentally friendly from production to disposal and that with an excellent chemical resistance.



BUL/4480-B40/Uk

Customer Benefits

- Exceeds European specifications
- Long service life
- Innovative product line
- Temperature range up to +125 °C - down to -50 °C
- Extreme abrasion resistance

Hose protection

Protected hose assemblies live longer.

Parker offers a huge range on hose protectors to let you work smarter, faster and better. In places where the hose assembly is exposed to severe mechanical strain, additional hose protectors such as guards, sleeves etc. have proven to be a good solution.

Customer Benefits

- Spring/Amour Guards
- Protective sleeves and fire sleeves
- Prevent kinking of hoses
- Protection against abrasion, damage, against extremely high temperature conditions.



CAT/4400/UK

Parkrimp hose crimpers

The solution against downtime.

Parkrimp hose crimpers for one-piece No-Skive fittings enable by their modular design the customer to choose between the profitability that Parker KarryKrimp crimpers have always offered, and the option to make these same crimpers bench mount units. The modular design gives users the flexibility of a portable crimper with the advantage of increased productivity when connected to the Bench Power Unit 85CE-1PE.

Customer Benefits

- Available in modular design for both portable and bench mount use
- Used with a hand pump or with air-hydraulic or electrical pumps
- Parkalign® for correct fitting positioning and pivoting pusher for easy die exchange
- Increased height for long elbow fittings



CAT/4400/UK



Push-Lok®



Push-Lok® hose and fittings.

The Push-Lok multipurpose hoses – available in 6 colours – are recognized industry-wide as the range with the most extensive chemical resistance, available for multipurpose applications and available in a huge variety of sizes. The hose is approved with Push-Lok fitting series 82 (with end-configurations in DIN, BSP, SAE, JIC and ORFS).

Customer Benefits

- The self-grip hose system for low pressure applications
- Wide variety of hose types in rubber, thermoplast and hybrid
- 6 different colours
- Easy assembly (no tools or clamps required)
- One fitting series



CAT/4400/UK



Big Bore Hose

The complete Big Bore solution.



Big Bore hydraulic hoses for low, medium and high pressure in No-Skive and ParLock Skive technology with a complete crimp fitting range – the complete solution to fulfil all high flow rate hydraulic needs in markets like oil and gas, mining and heavy duty constructions.

Customer Benefits

- Very robust
- Highly flexible even in big diameters
- Long service life, reduced downtime
- Hoses with MSHA approval

Stainless steel hydraulic fittings

When corrosion resistance is a demanding requirement.

For hydraulic and pneumatic applications in demanding environments, your connection requirements will be met by Parker's range of stainless steel products. Parker offers a broad range of connection components such as 1- or 2-piece hose fittings for low, medium and high pressure hoses as well as tubes, tube fittings etc.

Customer Benefits

- Complementary design of hose and tube fittings
- Customized product solutions
- Special materials
- Worldwide availability



Blowout Preventer (BOP)

For exploration and deep drilling in the Oil & Gas Industry.

Optimum performance combined with highest safety is the main aspect. Blowout Preventer hose assemblies generally work in tight spaces, with frequent vibrations, in tough environments because of temperature, contact with ozone and salty air and water. Parker offers a complete range of Blowout Preventer (BOP) hose assemblies. All hose assemblies are made in Europe from high-quality components.

Customer Benefits

- Tested according to API16D
- Steel and stainless steel fittings and armour
- Complete system, assembled and tested
- Full range, from 1/2" to 2", working at 5,000 psi and 6,000 psi
- Length up to 40 m, integral hammer union in 2"





Parker RSD-Series

A range of functions in a compact design.

The highly engineered RSD coupling is an optimal solution for all types of agricultural applications where ISO A interface is used. Other practical features of the system include an integrated brake-away function that automatically uncouples the hose if it is pulled too hard. The valve locking system prevents the valve from closing when coupled in the case of a high backflow of oil.



CAT/3800-HYD/UK

Customer Benefits

- Improved process reliability due to Push-pull coupling system
- Can be coupled under pressure up to 250 bar on the plug side
- Plug profile compliant with ISO 7241-1 series A.

Parker Tema FEM/IF-Series



FlatFace Couplingsystem according to ISO16028.

The plug profile of FEM, FEC and IF series according to ISO Standard 16028 is compatible with other series complying with the same standard. Leakfree coupling system. Thanks to the valve design, the coupling has a minimum pressure drop. Exists in standard version (steel) and stainless steel.

Customer Benefits

- FlatFace Design
- Available with pressure eliminator on coupling side
- Available in a special version for Multiplates
- Single-hand operation
- Chrome 6 free



CAT/3800-HYD/UK

Parker Tema FF-Series

DryBreak Premium FlatFace-Coupling made in Sweden.

The coupling system of the FF series has double shut-off, dry break and single-handed operation. During disconnection there is no oil loss, and during coupling there is no inclusion of air into the system.

Customer Benefits

- FlatFace Design
- Working pressure up to 800 bar
- Minimum pressure drop
- Up to 85% higher flow rates compared to other ISO 16028 coupling systems
- Double sealing in nipple
- Chrome 6 free



CAT/3800-HYD/UK

Parker QHPA-Series

Robust Screw-to-Connect-Coupling-System.

Screw-to-connect type of coupling for difficult applications. Rugged, modular construction in steel, working up to 450 bar.

Customer Benefits

- Robust, modular construction made of steel
- Resistant to mechanical and hydraulic shocks
- Suitable for applications with vibrations/shocks



CAT/3800-HYD/UK



Series 20/21/25/26/27



The standard product range of Parker Rectus.

Reliable coupling range from NW 2.7-10 in brass/steel and stainless steel up to 35 bar. Compatible with virtually all European profiles for use in all industrial applications. The modular principle allows many different valve type and connection options.

Customer Benefits

- European industrial profiles (compatibility)
- Modular principle - individual valves and connection options
- Working pressure up to 35 bar



CAT/3800-PNEU/UK



1400KE/1600KE/1700KE

Packed full with the best we have to offer.



Safety coupling of series 1400KE, 1600KE and 1700KE with a self-venting function. When the sleeve is pulled back, the plug is released yet remains locked in. The coupling valve closes. The compressed air can now escape from the plug (hose). By operating the sleeve again in the direction of the plug, the second locking system is released. Only now can the connection be disengaged. The system is compliant with the requirements of ISO 4414, DIN EN 983.

Customer Benefits

- Prevents whiplash effect
- Optimized flow rate (UltraHigh Flow-Valve)
- Low Coupling Force
- Singel-hand operation

CAT/3800-PNEU/UK

DryBreak 200KL-Series

Connecting has never been as easy and as safe.

Leak-free coupling system for sensitive environments an applications with aggressive media. Coupling system with single-hand operation, extremely low leakage rates and minimal dead space volume. Absolutely no air pockets when coupling and minimal leakage when uncoupling. Low coupling forces.

Customer Benefits

- Minimal coupling forces
- Leakage reduced to a minimum
- Ergonomic sleeve and smooth surface to protect against dirt/deposits



CAT/3800-PNEU/UK

NSP-Series

Non-Spill Coupling for Tempering and Cooling.

Flatface coupling system for cooling circuits. Noleakage when disconnecting and, at the same time, no air inclusion in the system. For use with water and thermo-oil at temperatures of up to 200 °C. Top efficiency with maximum flow and limited pressure drop.

Customer Benefits

- Rugged Push-to-Connect coupling system
- FlatFace Design
- Especially suitable for water and oil up to 200°C
- For use in the area of tempering and cooling



CAT/3800-MOLD/UK



Snap-tite 75-Series

Heavy-duty threaded connections in a wide range of sizes.



LEAF/3800-75SERIE/UK

Rugged Parker Snap-tite 75-Series is designed and constructed for high pressure hydraulic service. Primary use is in oil fields and offshore drilling. Other applications include cranes, power tongs, horizontal boring and dewatering. Can be connected/disconnected whilst pressurized.

Customer Benefits

- 3/4" to 4" made of steel or stainless steel
- "Firesafe" version available, certified according to API SPEC 16D for blowout preventers
- Thread-to-connect coupling - ACME thread

Snap-tite 73-Series



Ultra high pressure coupling system.

The Parker Snap-tite 73-Series is designed specifically for waterjet, waterblast, oilfield injection and test systems where ultra-high-pressures are commonplace.

Customer Benefits

- Available in 1/4" stainless steel
- Working pressure up to 3000 bar
- Safety lock prevents accidental disconnection



Snap-tite 77-Series

High pressure coupling system.

The Parker Snap-tite 77-Series is a drybreak coupling with minimal fluid loss and air inclusion. It has an internal sleeve lock as a safety feature. Designed for applications such as hydraulic test stands, hydrotesting and offshore drilling/production platforms where high-pressure fluids and cleanliness are mandatory.

Customer Benefits

- Available in 1/4" steel or stainless steel
- Working pressure up to 2480 bar
- Segment locking prevents the so-called oscillating effect



HighPressure HP-Series

Couple safely up to 2.500 bar.

The Parker Tema high pressure couplings was specially developed for use in industrial machinery, rescue equipment, bolt tensioning, torque wrenches etc. The coupling can be supplied either with or without additional safety lock.

Customer Benefits

- Coupling system up to 2500 bar
- Available with and without additional safety lock
- Full working pressure also disconnected
- Dust protection included



CAT/3800-HYD/UK



Alternate Fuel Hoses



All the alternative needs.

The 5CNG Hose is ideal for the conveyance of compressed natural gas and in particular for CNG dispensing.

Parker offers a complete range of hoses also for LPG and for both dispensing and „on-board“ applications in cars and trucks. For this purpose the hoses are available with according to the respective ECE norm.

Customer Benefits

- Komplettes Angebot für alternative Treibstoffe, Betankung und Einsatz im Fahrzeug
- Komfortable Handhabung in der Betankung
- Erhöhte Betriebssicherheit und verringerte Einbauzeiten



CAT_4460

Multiple Lines

2 in 1.

Hose assemblies comprised by two or more hoses which are welded together („Twin Lines“) are a significant advantage of the thermoplast hose technology. The hoses stay in place, no twisting and friction between the hoses. Typical applications are mast hoses of fork lifts or the boom of telehandlers.

Customer Benefits

- Reduced space requirements and improved handling
- Maximum versatility and line identification
- Replace energy chains and handle both hydraulic lines and cable guides



CAT_4460

Fluoropolymer Hoses

The problem solver.

PTFE is uniquely chemical resistant and inert and features an anti-adhesive surface. This reduces the risks of building up deposits. Hose assemblies can be cleaned easily. Due to the large suitable temperature range from -50°C up to +230°C PTFE is suitable for a lot of applications.

Customer Benefits

- For all extremely demanding applications with high temperature or high chemical resistance requirements
- Minimal pressure drop and effortless cleaning
- Superior flexibility



CAT_4460



On Board Heated SCR Lines

Cleanliness for tough demands.

With Electrically Heated SCR Hose Assemblies from Parker's Parflex Division, a cleaner exhaust system means a cleaner environment. Designed for heating and conveying DEF (Diesel Exhaust Fluid) throughout the SCR system on commercial vehicles, Parflex hoses are made to handle both on-road and off-road applications while helping you stay Tier IV and EPA, 10 compliant.

Advantages include:

- Consistent thaw - more reliable than coolant heated lines
- Protective Overmolding - Protection against water ingress and damage of electrical components

Customer Benefits

- Heated fittings and overall improved thaw performance
- Overmolded fittings and strong protective cover
- High grade fitting and hose materials improve service life and robustness

CAT_4460





Chemjec Hose-Family



Efficiency and Reliability.

CHEMJEC hoses incorporate a new fluoropolymer based core tube.

CHEMJEC enables us to offer hoses with extremely low permeability and chemical resistance combined with higher working temperatures. Typical applications for CHEMJEC are chemical, acidizing and methanol treatments for well bore cleanout at high temperatures to avoid problems of production in subsea facilities, therefore minimizing operational downtime and loss of production.

Customer Benefits

- Long length and jumpers offer unmatched flexibility
- 2x higher acid concentrations deliver improved efficiency
- Reductions of changes in length and volumetric expansion



CAT_4465



Black Eagle Family

Flexibility and Reliability.



CAT_4465

BLACK EAGLE family is a range of multispiral wire reinforced hoses specifically designed for the oil and gas market. Performing operations such as Acidizing, Cementing, Methanol Injection, Well Stimulation, Control Fluids and more recently in Light Weight Intervention (LWI) applications. A single length can be deployed in offshore operations, faster and safer with less connections and less risk to personnel. Also BLACK EAGLE reduces the cost in maintenance and labour associated with well servicing.

Customer Benefits

- Superior handling and faster deployment or exchange
- Cementing applications benefit from 20% average cost reductions
- Less leakage points and inventory
- Versatile with lengths up to 1.200 m and working pressures up to 15.000 psi

2022N – Aramid Family

Long lengths – highly flexible.

Polyflex Aramide reinforced hose offers best characteristics for offshore umbilicals. According the requirements of ISO 13628-5 the very compact design results in a minimal OD, reducing the size of the umbilical. The lightweight and very flexible hose is available in continuous lengths up to 3000 m.

Customer Benefits

- Excellent and comprehensive umbilical hose family
- Reduced OD offers more space on the drum and vessel
- Increased umbilical length and service life for deep sea requirements



CAT_4465

Ultra High Pressure Hoses

Safety paired with performance.

Parker hoses for Ultra High Pressures build a complete range of hoses covering up to 4.000 bar working pressure. Product quality is our highest concern to secure optimized safety for all operators. Water jetting and cutting or tube cleaning are common uses, as well as tank cleaning or colour removal.

Customer Benefits

- Versatile products with superior quality and safety
- Delivery hoses offering a pressure drop reduced by 90%
- Polyflex Lok is the unmatched fast connection solution up to 3200 bar



CAT_4462



Non Conductive Push-Lok



Fast assembly for many requirements.

Whenever a system needs to be electrical non-conductive, Parker offers the right hose solution for all media transfer.

- Defined non-conductivity acc. SAE J517 100 R7/R8
- Non pinpricked cover preventing moisture ingress
- Orange cover for easy identification
- Comprehensive hose range covering all requirements
- Light weight & high flexibility for easy handling and installation
- Abrasion resistant cover for long service life

Customer Benefits

- Up to 80% less assembly time
- Pre-requisite for all high voltage or high frequency cooling requirement
- Long service life and extended use



CAT_4460



Preformed Hoses

Combines the best from 2 worlds.



Tailor made Solutions: Parker's preformed technology is the solution for your cost management and technical challenges. It combines the advantages of steel tubes with the flexibility of tubes. New design solutions with tailor made products.

- Easy installation in confined spaces.
- Reduced installation time & costs.
- Less joints & fittings required, thus reducing costs and potential leakage.
- Weight and cost reduction compared to hose-tube combinations.
- Flexible materials dampen vibrations and thus reduce noise and material fatigue.

Customer Benefits

- Up to 25% reduced installation times
- Reduced space requirements and less fastening elements
- Elimination of leakage points

CAT_4460

Life Science Products

What the medicine-technology needs.

Parker offers Innovative Solutions for the Medical Device and Life Science Markets:

- Minimally invasive medical
- Pharmaceutical processing and filling
- Laboratory and diagnostic
- Breathing and ventilation
- Cleaning and sterilising of medical equipment

Customer Benefits

- Covering various medical requirements with high reliability
- Easy Line-Identification
- All required solutions from one source



BUL_Flexible Performance Tubing

A complete range of Tubing

A complete and unique portfolio.

Pneumatic tubing from the Parker Polyflex Division offers all advantages as it ranges from Polyamide to Polyurethane. A highlight is the tubing Presto-weld Soft which is spark resistant and excellently suited for automotive welding applications and has been tested by most major car manufacturers.

Customer Benefits

- Pneumatic and media transfer
- Chemical resistance and flexibility
- Flame retardant version, ideal for welding robots



BUL_4460 Industrial Tubing



World-Class Performance: LF 3000®

Quality and safety, the basis of our commitment.

Our target is to provide our customers with the best solution and the highest quality. Certified ISO/TS 16949, Parker Legris includes customer quality at the heart of its processes. Investing in quality guarantees increased productivity: the cost of a production stoppage due to a defective part is greater than the cost of all the connectors in the machine. Choosing the quality of the components in your machine is thus of primary importance.



CAT/0570/UK

Customer Benefits

- Tried-&-tested technology for ease of use and rapid installation
- Full bore for maximum flow and productivity
- 100% leak-tested to increase equipment lifetime and reduce energy use

LIQUIfit® Push-In Fittings



Innovative technology: the new reference for liquid transfer applications

This “eco-designed” range proposes an innovative alternative for water applications; no fluid contamination occurs and environmental protection is guaranteed. These fittings ensure reliable and compact connections for liquid transfer applications.

Customer Benefits

- Reduced maintenance due to easy-to-clean design
- Eco-designed with bio-sourced polymer to reduce environmental footprint
- Contaminant-free, guaranteeing fluid purity



CAT/0570/UK

LF 3600 Push-In Fittings

One fitting for demanding industrial applications.

In order to meet your technical and environment requirements, Parker Legris designed the LF 3600 range of nickel-plated brass fittings, offering robustness, reliability and resistance to industrial fluids for the most demanding environments.

Customer Benefits

- Resistant up to +150°C at 30 bar for seamless operations
- Excellent abrasion and corrosion resistance for improved reliability
- More than 250 part numbers for perfect adaptability



CAT/0570/UK

LF 3800/3900 Push-In Fittings

Designed for unsurpassed resistance.

Parker Legris has developed 2 ranges of stainless steel fittings (LF 3800 or LF 3900 in full 316L) for conveying corrosive fluids in aggressive environments. These ranges provide two complementary levels of corrosion resistance and a hygienic external design.

Customer Benefits

- Excellent capabilities for conveying aggressive fluids with maximum corrosion resistance
- Hygienic external design, perfect for permanent contact with foodstuffs



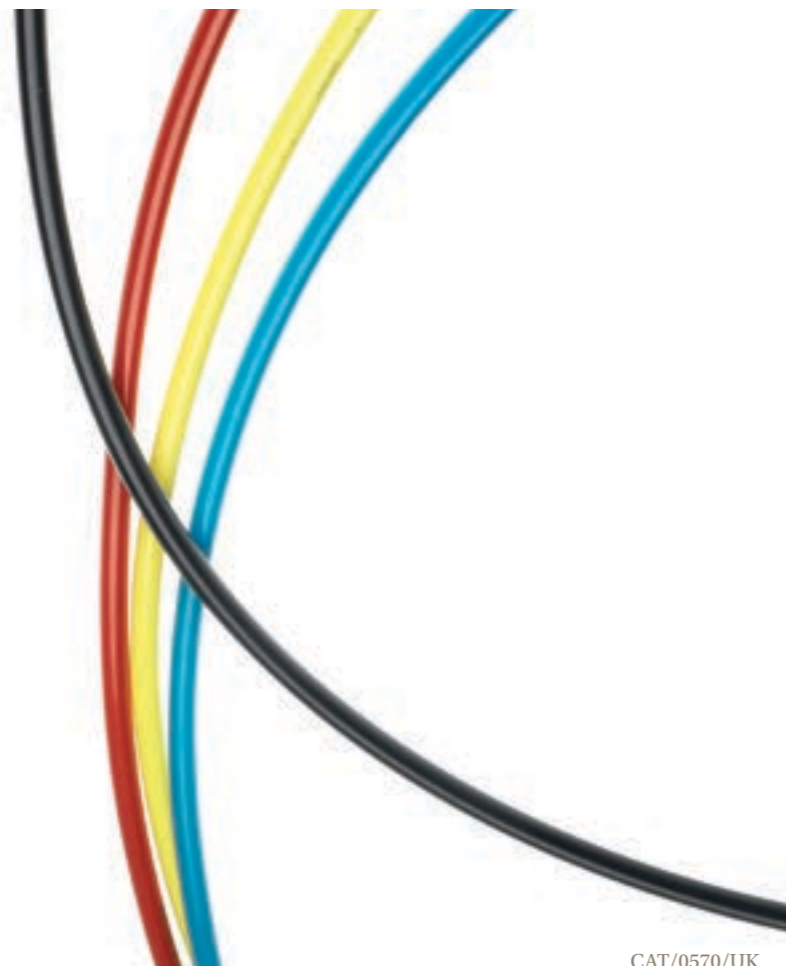
CAT/0570/UK



Polyurethane Tubing

Together, we can build sustainable development.

PU tubing guarantees excellent durability due to stable long-term mechanical properties. Parker Legris' special grade of polyurethane ether is manufactured for superior performance, excellent flexibility and higher chemical compatibility. This outstanding flexibility allows for up to 50% space reduction when compared to semi-rigid PA tubing, permitting use in a wide range of applications.



CAT/0570/UK

Customer Benefits

- Continuous calibration during production for excellent reliability
- Optimal bend radius for space-saving
- Unsurpassed abrasion resistance, increasing lifespan

Advanced PE-Tubing



Mechanical resistance improved by 15%.

Parker Legris offers two types of polyethylene tubing: "Advanced PE" 50% reticulated and Low

Density PE. Our range of "Advanced PE" is designed for demanding environments, especially that of water treatment, without compromising operator safety. Approved for permanent contact with food and beverages, this range offers infinitesimal bacterial growth while in use, thus limiting frequency of cleaning operations.

Customer Benefits

- 50% reticulated material for perfect performance stability at all temperatures
- UV-stabilised for indoor and outdoor use
- Hygienic material reduces maintenance and contamination



CAT/0570/UK

PFA Tubing

A flexible alternative to stainless steel tubing.

Parker Legris PFA tubing offers 10 times greater durability than other fluoropolymer tubings under severe chemical and mechanical conditions. This tubing range is available in 3 material grades, offering perfect compatibility with many applications, even in extreme environments.

Customer Benefits

- Exceptional chemical inertia for unlimited use in many applications
- Non-stick properties for conveyance of many fluids and gases
- The lowest permeability for outstanding aging



CAT/0570/UK

Fireproof PA Tubing

Guaranteed safety for on-board railway equipment.

This single layer PA fireproof tubing not only combines excellent resistance to pressure, temperature and flame, but also guarantees non-toxic smoke resulting from burn-off.

This tubing eliminates the need for a stripping tool, thus preventing the risk of tube damage prior to connection.

Customer Benefits

- Polyamides are specifically designed for on-board equipment due to excellent chemical and mechanical compatibility
- A flame-resistant grade guaranteeing safety of persons and equipment



CAT/0570/UK



Carstick® LF 3000®

Your applications inspire our innovation.

Innovation is Parker-Legris' number one priority in order to provide solutions that meet your technological, energy reduction and environmental challenges. We continually invest in our tools in order to anticipate market requirements in terms of industrial efficiency.

Parker Legris has developed the range of patented Carstick® cartridges guaranteeing the integrity of the sealing system before and after assembly in non-threaded cavities. The compact design of the one-piece Carstick® cartridge enables automation of your manufacturing process and improves the reliability of your system.



CAT/0570/UK

Customer Benefits

- No thread to be machined for inserting fitting into cavity, saving labour time
- Ease of installation and use due to self-centring of cartridge in cavity and push-in connection

Stainless Steel Compression Fittings



“Universal“ fittings for numerous connection options.

Manufactured in 316L stainless steel, these fittings combine all the advantages of the “universal“ compression fitting with excellent resistance to environmental conditions and corrosive fluids. They are pressure and temperature-resistant and are able to withstand strong vibration and water hammer.

Customer Benefits

- Produced in 316L stainless steel, the ideal solution for environments/fluids requiring all-metal sealing
- Suitable for pneumatic and medium pressure hydraulic applications



CAT/0570/UK

Energy-Saving Blowguns

40% savings in air consumption, stable flow guaranteed.

To limit energy costs, the new range of energy-saving blowguns allows you to reduce the air flow, thus limiting energy consumption while maintaining blowing efficiency. The Parker Legris polymer blowguns offer ease of use, energy savings, adaptability and efficiency.

Customer Benefits

- Powerful flow with progressive control enabling a reduction in energy consumption of 40%
- Ergonomic design for easy handling and operator well-being



CAT/0570/UK

Ball Valves, Standard Series

From mini to maxi, safety included, anything's possible.

This range of valves with fluoropolymer seals, available in compact, standard and lockable series, covers many industrial applications for which the fluids conveyed and working temperatures require this seal material.

Customer Benefits

- Full flow for improved fluid transfer, minimizing cost of use
- Various versions for unsurpassed compatibility with all equipment



CAT/0570/UK



GST® II



When a general purpose hose can generate particular operative benefits.

GST® II hose is a versatile general purpose hose designed to handle air, mild chemicals and water.

The Special EPDM inner tube is compatible with light oil mists found in air tool lubricating systems. The multiple plies of textile reinforcement provide flexibility while assure a very high safety factor of 4:1. The cover is resistant to abrasion, heat and ozone. Both tube and cover compound are nitrosamine-free to sustain the environment.

Customer Benefits

- Nitrosamine free compounds
- Permanent fittings capability
- EPDM compound suitable also for oil mist
- Upgraded Safety Factor 4:1
- Global Product



CAT/4401/UK



E-Z Form

Full-flow, kink-free, eliminates the needs of preformed hose.

E-Z Form hose provides extreme flexibility for easy and quick installation of coolant, water and oil suction/return lines on mobile and industrial equipment. Available in multiple incremental sizes, E-Z Form hose reduces installation time, eliminates the need for costly made-to-order pre-formed hose and provides rapid delivery from stock without requiring dedicated inventory.



CAT/4401/UK

Customer Benefits

- Easier and quicker assembly
- Less stock required
- Superior kink resistance, minimal force to bend, outstanding flexibility
- Performance equal to SAE J20R2-D1
- Global Product

New GAMBRINUS range

Specifically designed for food & beverage industry.

Produced on dedicated lines using stainless steel mandrels, our compounds are resistant to cleaning and sterilization to guarantee utmost cleanliness and hygienic standard. Designed in 4 different series to fit specific product features: Blue for milk & fatty food, Red for soft drinks & light alcohols, Black for abrasive food and UPE for spirits.

Customer Benefits

- Certified by compliance with: BfR, FDA, EC1935 and other alimentary standards
- ADI free
- For OEMs and MRO markets
- Crimped Stainless Steel Fittings available



CAT/4401/UK

PU lay flat hose

Rugged Constructions for diverse applications.

Parker PU lay-flat hose provides compact, durable, lightweight water and multipurpose service in agricultural, construction, general industrial and mining applications. The hose offers superior value due to its robust design, rugged materials, compatibility with multiple media and versatility across many applications. The strong yet pliable hose is abrasion-resistant.

Customer Benefits

- Much easier to couple, install and remove than polyethylene pipe
- High performing polymer preserve from fluid contamination
- Excellent resistance to internal and external abrasion
- Available also with antistatic wires.



CAT/4401/UK



Beton



High pressure concrete hose.

Suitable for placement of concrete at casting locations by concrete pumps at the ends of the machine arms.

Supplied assembled with swaged on full flow hardened couplings at one end or both ends.

Customer Benefits

- Flexibility and kink resistance also for easy cleaning
- Wet abrasive materials
- High abrasion resistant tube and longer service life
- Dedicated fitting series



CAT/4401/UK



Cergom

Material handling hose for extreme application.



The unique construction - Parker international patented - with hexagonal ceramic tiles embedded in abrasion resistant rubber, provides service life many times longer than traditional rubber hoses due to the outstanding resistance at the abrasion. Suitable for compressed air or vacuum system conveying super abrasive materials such as coal powders, ceramic, cement, fiberglass, raw materials. Available in customized assemblies with built-in fittings.

Customer Benefits

- Easier handling, installation, maintenance, replacement.
- Reduced downtime
- Higher safety in-plant
- Less logistics & admin cost

CAT/4401/UK

Vigor

New steam & hot water hose.

Designed for high pressure saturated steam (max 18 bar at +210 °C). Suitable for loading saturated and superheated steam in cleaning and sterilization applications, petrochemical industry and general steam service applications. The pin-pricked cover prevent blister and bubbles.

Customer Benefits

- Wide range temperature
- Suitable for OEMs and MRO market
- Two cover color lines: black and red
- Compliant with EN-ISO 6134 Type 2/A
- Improved handiness



CAT/4401/UK

Poliax

Extreme chemical transfer applications do not scare us!

Our Poliax product line preserves from contamination the environment and guarantees the integrity of the media conveyed. We have multiple construction typologies to suits as many needs as possible as well as the new Long Length range in smaller diameters. The corrugated version offers additional flexibility and it is easy to handle in case of routing constraints or manual operations.

Customer Benefits

- Exceeds EN 12115 specifications
- Suitable for ATEX areas
- Meets TRbF 131 part 2 par 5.5 (flame resistance)
- Nitrosamine free and/or FDA approved



CAT/4401/UK



Carboblue

The clean solution!



CAT/4401/UK

The latest regulations for exhaust gases on trucks and buses require special actions to comply with the strict requirements. Vehicles are equipped with the new SCR technology (Selective Catalytic Reduction) which depends on the supply of high purity urea aqueous solution. Parker developed the special hose CARBOBLUE to fulfil this high grade of cleanliness for SCR technology. A sulphur-free rubber compound and peroxide curing make the hose the first choice for urea based solutions.

Customer Benefits

- Compatibility approved by Ad-Blue manufacturer
- Environmental friendly
- Nitrosamine free
- Available HW version to defrost and keep additive at the right temperature

SUPERFLEX FL 7



Low Permeability barrier hose.

Premium hose specifically designed and manufactured for refined fuels - biodiesel included - with a thermoplastic THV barrier to resist fuel permeation and with a cover resistant to abrasion, oil and weathering. It is flexible for easy routing in engine compartments and compliant to many industry standards.

Customer Benefits

- Meets SAE J30R7/ 30R14T2
- Biodiesel up to B20
- Permeation value less than 15g/m²/day.



CAT/4401/UK

Cervino

Oil&Fuel hose for outdoor application at low temperature.

Parker CERVINO is designed for suction and delivery of mineral oils and fuels. The special compound makes the hose ideal for outdoor applications when low temperature conditions are encountered e.g. wind power generation, processing industry, off shore, mining and off highway mobile equipment.

Customer Benefits

- Technology nitrogen tested for safe air applications
- Cold bend tested as per ISO 4672 without cracks
- Good result on cover abrasion test as per ISO 6945
- Crimped solution with 48 series and Large Bore series



CAT/4401/UK

Python

The best multipurpose hoses for industrial applications.

Over the years Python has become synonym of premium quality rubber hose. Tough tests in labs and excellent performance results in various applications doubtless proved the high standards of Python. Excellent fluid compatibility and durability also outdoors. Available in three colors and two pressure ratings is the ideal multipurpose hose.

Customer Benefits

- Unmatchable handiness
- Its versatility of use helps to keep a controlled stock
- Wide range temperature
- Nitrosamine free
- More flexibility and colour stability



CAT/4401/UK



Transair®

Reliable and safe connection technologies.

Transair®, the original modular pipework system based on aluminium pipes and quick connectors, was launched in 1996. Since then, with almost 20 years experience, continual improvements have been made to meet the compressed air, inert gases and vacuum network needs! As specialist in industrial fluid networks, Transair® offers an innovative solution that meets the needs of demanding users, whether for the energy source, the main network or to feed the points of use. Transair® is the economical, reliable and efficient alternative to traditional steel networks. Change your old steel pipe network for Transair® to optimise your operation costs and to benefit from high impacts on your productivity.



BUL/T0058/EN

Customer benefits

- Pressure 16 bar and high flow (diameters from 16.5 mm to 168 mm)
- Air quality class 1-1-1 according to ISO 8573 standard
- Safest connection technologies
- Quick installation for reduced downtime
- Services to support each project

New 50 mm diameter



Transair® continues to simplify the installation work.

The new Transair® 50 mm diameter uses the most advanced aluminium technology to meet the dual needs of strength and flexibility: 50 mm fittings are tailored to the working conditions of industrial environments: shocks, fall from height, dust. Even in the case of failure on equipment within an installation, there is no possible ejection of the pipe.

Customer benefits

- A proven technology: 10 years experience
- Safety with SnapRing technology
- Adapted to harsh environments
- Shock resistance
- Aluminium pipes with Qualicoat® painting



BUL/T0058/EN

Compressed air, inert gas and vacuum

Pipe colors for vacuum and gases.

Transair® is suitable for compressed air applications (dry, lubricated or with water condensation), for inert gas applications like nitrogen, argon or CO2 (for purity up to 99.99%) and for vacuum applications (minimum vacuum level of 10 mbar). Painting available in several colours to differentiate the networks.

Customer benefits

- Multifluids solution
- Optimal sealing
- Gas consistency
- Easy identification
- Longer lifetime use



BUL/T0039/EN
BUL/T0037/EN
BUL/T0046/EN

All-in-one fittings

Meet the requirements of both installers and end users.

The Transair® range includes products that avoid the use of multiple pipe threads and guarantee a safe, leak free, system: manifolds, threaded adaptors, wall brackets...

Products ready-to-use: installation of a drop to connect a machine in less than 15 minutes.

Customer benefits

- Simplify the installation process
- Optimise the installation time
- Increase the speed of connection
- Optimise flow performance
- Reduce space of connection



BUL/T0032/UK
BUL/T0047/EN

Value Added Services

CPS – Complete Piping Solution Center

Complete hydraulic systems from a single supplier. With the pressure on efficiency.

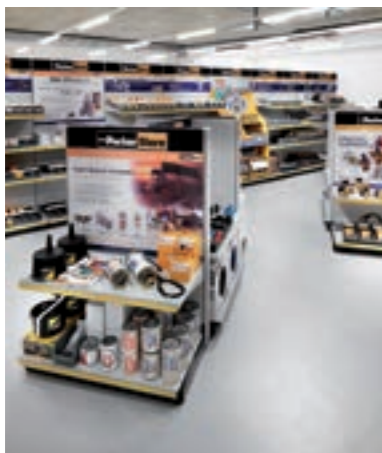


The Parker Piping Solutions principles:

- Briefing/Design discussion
- Design: Tubing layout, Tube dimensioning, Drawings, Documentation
- Pre-assembly: Tube bending, Flaring, Tube cleaning
- Delivery: Assemble/dispatch, documentation
- Install: Manufacturing, Management on site, Assembly on site, Inspect and wash, Documentation



ParkerStore



Total Hose and Fittings Service.

Parker's self-service shops for hydraulic and pneumatic connectors.



Offering:

- More than 3.000 items in stock
- Immediate, on site assembly of hoses
- Experts trained and certified by Parker, are always available to help and offer the best solutions to your problems

Hose Doctor Service

Hydraulic Hose Replacement Service.

This emergency service is available 24 hours a day and 7 days a week via a free phone help line. The Hose Doctor Service van is a truly mobile workshop, with

a stock of hoses, tube fittings, adaptors, quick couplings and hydraulic lubricant. The technician is therefore able to replace any defective assembly, quickly and on site.



PTS – Parker Tracking System Pro



Track and manage assets with ease.

PTS Pro is a powerful new offering from Parker Tracking System. It brings together advanced asset tracking/management capabilities with Parker's global network of distributors and service partners to provide comprehensive asset management solutions.

With PTS Pro, you can:

- Establish detailed asset location data
- Create and deploy custom inspection templates
- Schedule inspections and replacements
- Apply application and related data to an asset group

- Transfer record ownership between PTS accounts
- Store and retrieve historical inspection results
- Export asset details into Excel reports
- Create custom asset books for audits or inspections
- Schedule and personalize MRO alerts and notifications

Parker Maritime Services



Parker Maritime Services provides a wide range of services including subsea metrology, 3rd party verification dimensional control surveying onshore and offshore, vessel and ROV attitude verifications and GNSS "health checks", as well as maritime services like seabed mapping. In addition Parker Maritime has developed and manufactures the ParkerPMS™ for shuttle tankers and other vessels.

	Tube Fittings				Measuring Devices, Tubes and Valves				Flanges and Tube Fittings				Elastomer Hoses and Hose Fittings										Quick Couplings																	
	EO-3®	EO-2	EO-PSR	EO2-FORM	Serviceman Plus	The Parker Service MasterPlus	Tubes and Tube Clamps	Valves	Parflange® F37 and CPS	O-Lok®	Triple-Lok®	Stainless Steel	Global Core	Compact Spiral	High-Pressure Hoses	Rail Hose	Elite No Skive	Parkrimp® No-Skive	Hose Accessoires	Parkrimp Crimpers	Big Bore Hose	Push-Lok®	Stainless Steel Fittings	Blowout Preventer	Parker RSD Series	Parker Tema FEM/IF Series	Parker Tema FF Series	Parker QHPA Series	1400KE/1600KE/1700KE	Series 20/21/25/26/27	DryBreak 200KL-Series	NSP-Series	Snap-tite Series 75	Snap-tite Series 73	Snap-tite Series 77	HighPressure HP Series				
Page	8	9	9	9	10	11	11	11	12	13	13	13	14	15	15	15	16	17	17	17	18	19	19	19	20	21	21	21	21	22	23	23	23	23	24	25	25	25		
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Page	Thermoplast Hoses												Push-In Fittings										Industrial Hoses																				
	Heated SCR Hoses	Alternative Fuel Hoses	Multiple Lines	Fluoropolymer Hoses	Black Eagle Family	Chemjec Hose Family	2022N Aramid Family	Ultrahighpressure	Preformed Hoses	Non conductive Push-Lok	Life Science Products	Pneumatic Tubing	LF3000®	LIQUIfit®	LF3600	LF3800/3900	Polyurethane Tubing	Advanced PE Tubing	PFA Tubing	PA Tubing	Carstick®	Stainless Steel Compression Fittings	Blowguns	Ball Valves	E-Z Form	GST® II	Gambrinus	PU Lay Flat Hose	Cergom	Beton	Vigor	Poliax	Carboblue	Superflex FL 7	Cervino	Python	Transair®-Products						
	26	27	27	27	28	29	29	29	30	31	31	31	32	33	33	33	34	35	35	35	35	36	37	37	37	38	39	39	39	40	41	41	41	41	42	43	43	43	44-45				
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Trainings for Products and Services

by the Fluid Connectors Group Europe.

The products from Parker Fluid Connectors Group Europe offer the market a uniquely comprehensive approach to the manufacture and modification of fluid piping systems.

Thanks to their key properties and special features, they offer virtually endless possibilities for widely diverse applications – possibilities which offer the user real benefits and lead to distinct improvements in his technical and economic environment.



Parker offers concrete knowledge of respective products where selection criteria, scope of application and breadth of operation are invaluable. Parker intends to play its part in how this expertise can be acquired and regularly refreshed for daily implementation. In this respect, the Parker Fluid Connectors Group Europe training programme offers valuable help. The programme incorporates product and target group training for acquiring not only basic knowledge, but also extensive familiarisation through practical experience with the products, incorporating identification and demonstration of application-specific operational advantages.

Special „Train the Trainer“ workshops complete the range of training programmes; they communicate expertise and information about how acquired knowledge can be passed on to others.





Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



Aerospace

Key Markets

- Aftermarket services
- Commercial transports
- Engines
- General & business aviation
- Helicopters
- Launch vehicles
- Military aircraft
- Missiles
- Power generation
- Regional transports
- Unmanned aerial vehicles

Key Products

- Control systems & actuation products
- Engine systems & components
- Fluid conveyance systems & components
- Fluid metering, delivery & atomization devices
- Fuel systems & components
- Fuel tank inerting systems
- Hydraulic systems & components
- Thermal management
- Wheels & brakes



Climate Control

Key Markets

- Agriculture
- Air conditioning
- Construction Machinery
- Food & beverage
- Industrial machinery
- Life sciences
- Oil & gas
- Precision cooling
- Process
- Refrigeration
- Transportation

Key Products

- Accumulators
- Advanced actuators
- CO₂ controls
- Electronic controllers
- Filter driers
- Hand shut-off valves
- Heat exchangers
- Hose & fittings
- Pressure regulating valves
- Refrigerant distributors
- Safety relief valves
- Smart pumps
- Solenoid valves
- Thermostatic expansion valves



Electromechanical

Key Markets

- Aerospace
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Paper machinery
- Plastics machinery & converting
- Primary metals
- Semiconductor & electronics
- Textile
- Wire & cable

Key Products

- AC/DC drives & systems
- Electric actuators, gantry robots & slides
- Electrohydraulic actuation systems
- Electromechanical actuation systems
- Human machine interface
- Linear motors
- Stepper motors, servo motors, drives & controls
- Structural extrusions



Filtration

Key Markets

- Aerospace
- Food & beverage
- Industrial plant & equipment
- Life sciences
- Marine
- Mobile equipment
- Oil & gas
- Power generation & renewable energy
- Process
- Transportation
- Water Purification

Key Products

- Analytical gas generators
- Compressed air filters & dryers
- Engine air, coolant, fuel & oil filtration systems
- Fluid condition monitoring systems
- Hydraulic & lubrication filters
- Hydrogen, nitrogen & zero air generators
- Instrumentation filters
- Membrane & fiber filters
- Microfiltration
- Sterile air filtration
- Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

- Aerial lift
- Agriculture
- Bulk chemical handling
- Construction machinery
- Food & beverage
- Fuel & gas delivery
- Industrial machinery
- Life sciences
- Marine
- Mining
- Mobile
- Oil & gas
- Renewable energy
- Transportation

Key Products

- Check valves
- Connectors for low pressure fluid conveyance
- Deep sea umbilicals
- Diagnostic equipment
- Hose couplings
- Industrial hose
- Mooring systems & power cables
- PTFE hose & tubing
- Quick couplings
- Rubber & thermoplastic hose
- Tube fittings & adapters
- Tubing & plastic fittings



Hydraulics

Key Markets

- Aerial lift
- Agriculture
- Alternative energy
- Construction machinery
- Forestry
- Industrial machinery
- Machine tools
- Marine
- Material handling
- Mining
- Oil & gas
- Power generation
- Refuse vehicles
- Renewable energy
- Truck hydraulics
- Turf equipment

Key Products

- Accumulators
- Cartridge valves
- Electrohydraulic actuators
- Human machine interfaces
- Hybrid drives
- Hydraulic cylinders
- Hydraulic motors & pumps
- Hydraulic systems
- Hydraulic valves & controls
- Hydrostatic steering
- Integrated hydraulic circuits
- Power take-offs
- Power units
- Rotary actuators
- Sensors



Pneumatics

Key Markets

- Aerospace
- Conveyor & material handling
- Factory automation
- Life science & medical
- Machine tools
- Packaging machinery
- Transportation & automotive

Key Products

- Air preparation
- Brass fittings & valves
- Manifolds
- Pneumatic accessories
- Pneumatic actuators & grippers
- Pneumatic valves & controls
- Quick disconnects
- Rotary actuators
- Rubber & thermoplastic hose & couplings
- Structural extrusions
- Thermoplastic tubing & fittings
- Vacuum generators, cups & sensors



Process Control

Key Markets

- Alternative fuels
- Biopharmaceuticals
- Chemical & refining
- Food & beverage
- Marine & shipbuilding
- Medical & dental
- Microelectronics
- Nuclear Power
- Offshore oil exploration
- Oil & gas
- Pharmaceuticals
- Power generation
- Pulp & paper
- Steel
- Water/wastewater

Key Products

- Analytical instruments
- Analytical sample conditioning products & systems
- Chemical injection fittings & valves
- Fluoropolymer chemical delivery fittings, valves & pumps
- High purity gas delivery fittings, valves, regulators & digital flow controllers
- Industrial mass flow meters/controllers
- Permanent no-weld tube fittings
- Precision industrial regulators & flow controllers
- Process control double block & bleeds
- Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

- Aerospace
- Chemical processing
- Consumer
- Fluid power
- General industrial
- Information technology
- Life sciences
- Microelectronics
- Military
- Oil & gas
- Power generation
- Renewable energy
- Telecommunications
- Transportation

Key Products

- Dynamic seals
- Elastomeric o-rings
- Electro-medical instrument design & assembly
- EMI shielding
- Extruded & precision-cut, fabricated elastomeric seals
- High temperature metal seals
- Homogeneous & inserted elastomeric shapes
- Medical device fabrication & assembly
- Metal & plastic retained composite seals
- Shielded optical windows
- Silicone tubing & extrusions
- Thermal management
- Vibration dampening

ENGINEERING YOUR SUCCESS.

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