

Fluid Connectors Group

Connecting a World In Motion



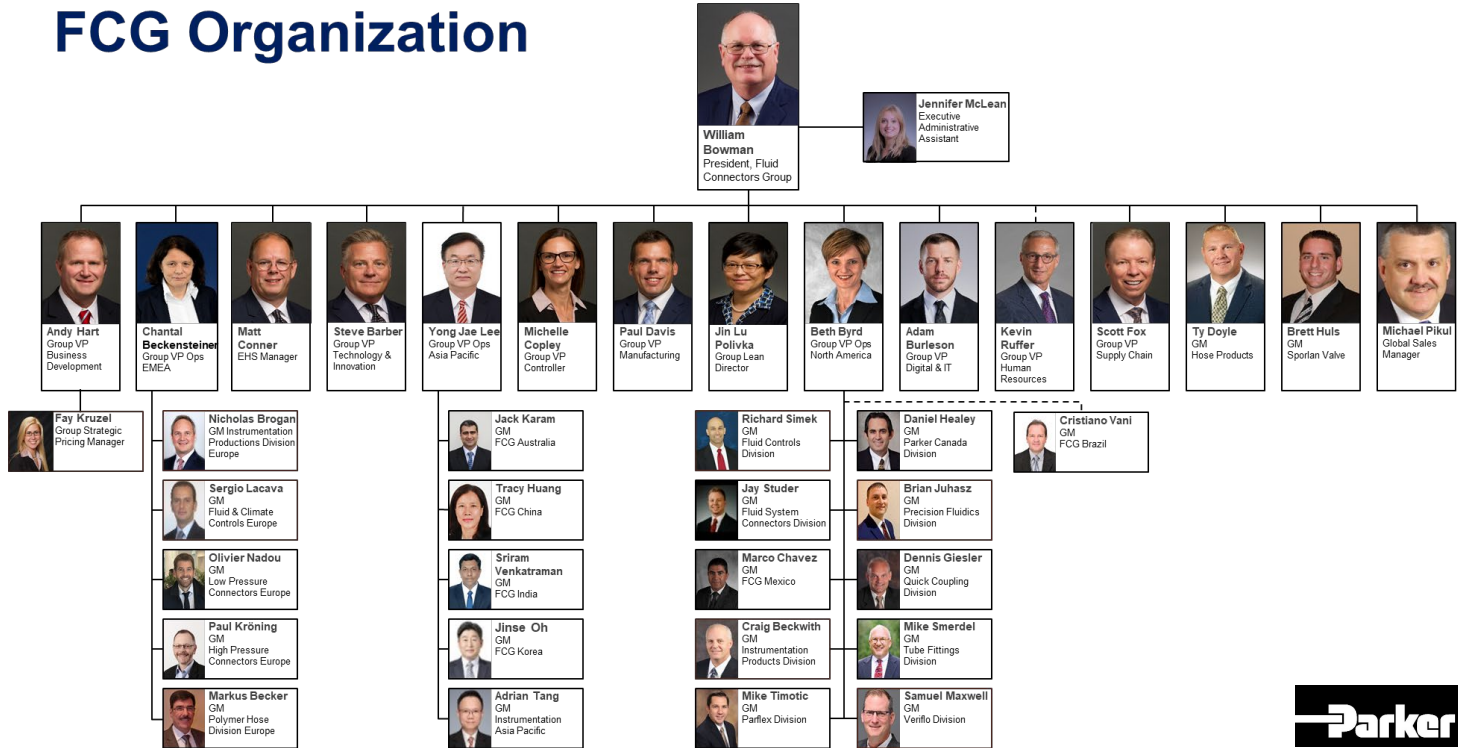
ENGINEERING YOUR SUCCESS.

Fluid Connectors Group Overview

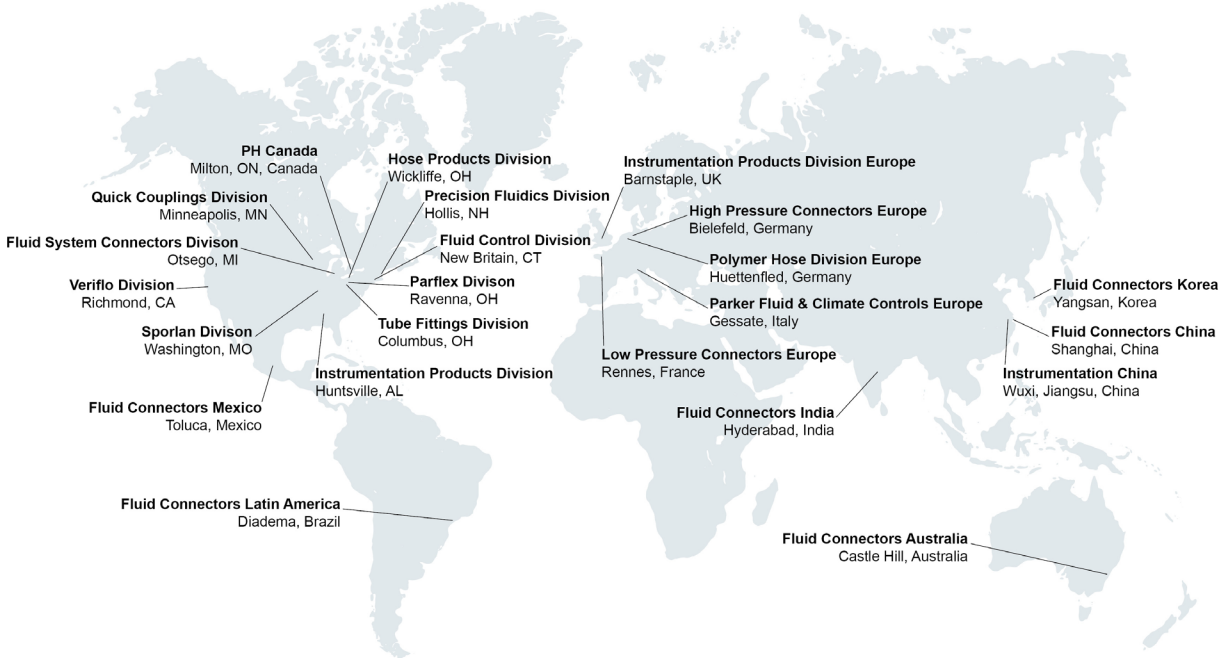
*Safely Connecting People and Equipment
to Make the World More Productive*



FCG Organization



FCG Headquarter Locations



Markets and Channels



Markets



Agriculture

Industrial Gas

Mining

Semicon

Construction

Life Sciences

Oil and Gas

Ship Building

Factory Automation

Machine Tool

Processing

Thermal Management

Food & Beverage

Material Handling

Power Generation

Transportation





Agriculture

With more than a century of experience, Parker is often called to the table for the collaborations that help to solve the most complex engineering challenges among OEMs. We can help you bring your ideas to light within the agriculture industry, working enable technology breakthroughs that change the world for the better.



Extended Hose Life

Many hoses are tested to 2,000,000 cycles: twice the impulse cycles required ISO and SAE



Support Hoses

Agriculture machinery will benefit from the comprehensive lineup of hydraulic hoses designed and engineered to meet the most commonly used constant working pressure classes



Leak-Free ORFS Fittings & Corrosion Resistance

Seal-Lok™ (O-Lok) O-ring Face Seal (ORFS) fittings provide leak-free connections in high-pressure and vibration applications. ToughShield™ Plus zinc-nickel plating combats corrosion longer than industry standard plating, providing longer uptime.



PTC Fluoropolymer Fittings

Push-to-connect PVDF Kynar fittings enhance installation and maintenance within sprayer equipment

*Transforming how the
agriculture industry grows*





Construction

Parker's Mobile Systems Team works with OEM customers as trusted partners in developing innovative solutions. The ability to optimize systems through whole-vehicle integration elevates Parker as the global industry leader in intelligent motion control for mobile equipment.



Non-Spill: Flush Face Quick Connects

Avoid oil spillage and eliminate safety hazards



ParkerStore Onsite Containers

Reduce your unplanned by putting a ParkerStore Onsite Container where you work



UPTC

Unique push-in system for steel tubes and hoses



SuperTough Cover

450X more abrasion resistant than standard



No-Skive Hoses

Allows for faster, cleaner, higher quality assemblies



Low Temp Hose

Extend hose life -70°F/-57°C

*Solutions for today's machines
& the machines of the future*





Factory Automation

Parker offers a vast selection of hoses, tubing, fittings, couplings each designed to withstand the environments and demands in the modern factory. Our condition monitoring software allows for real-time data monitoring to ensure your equipment is always up and running.



Industry Leading Crimpers

Parker's Parkrimp system provides perfect alignment, efficient design, color-coded linked dies and durability



Condition Monitoring

Parker SensoNODE and Voice of the Machine Software supplies real-time data to monitor the condition of your equipment electronically



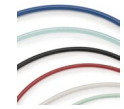
Parker Tracking System (PTS)

A global asset tagging and identification system to track and manage assets with ease



Push-to-Connect Fittings

Available in metal and composite, inch and metric configurations



PU Tubing

Polyurethane tubing offers the greatest flexibility and kink resistance along with exceptional abrasion resistance of any rubber or thermoplastic tubing

Connecting you to higher productivity





Food & Beverage

Parker is committed to providing the Food & Beverage industry with the most comprehensive range of motion and control products. Supporting customers with our worldwide sales force and local distributor support, Parker provides machinery manufacturers and end-users with unrivaled service levels.



Technopolymer Solenoid Valves

Parker's Q and C Series answers the unmet market need enabling competitive preventive maintenance and ensuring ease of set-up, installation, quick and standardized service operations, zero tools.



F Series Solenoid Valves

F Series is a full range of direct operated solenoid valves, available in 2 way and 3 way configurations, offering many sealing materials and different flow rates.



FS Series

Stainless steel non-spill, flat face hydraulic couplers allow for fast & easy connection with minimal spillage



Push-to-Connect Fittings

Push-to-connect fittings conform to FDA standards



Hose & Tubing

Food grade hoses and tubing enable a clean and safe transfer

Connecting you to higher productivity





Industrial Gas

Parker's products for the industrial gas industry include fluid control components. These components are designed to withstand the harsh operating conditions of the industrial gas industry, such as high pressure and extreme temperatures, and ensure safe and efficient gas handling.



Bestobell Cryogenic Valves

Parker Bestobell is a leading manufacturer of cryogenic globe and gate valves for industrial gas applications.



A-LOK Series Fittings

two ferrule compression fittings are designed for leak-free connections in process instrumentation and industrial applications.



LPG Hose

Series 7132 liquid petroleum gas hose provides excellent service across LPG/propane delivery & supply applications



Thermoplastic & Fluoropolymer Hose

From natural gas to nitrogen gas transfer lines, Parker designs hoses that meet many demands



LG Series (Kodiak)

This LNG coupling offers easy single action connection with integral shut-off valves & hose swivel

Connecting you to higher productivity





Life Sciences

Collaborating with medical and analytical device OEMs – as well as biopharmaceutical and pharmaceutical companies – Parker experts work with customers to deliver inventive systems and subsystems that break new ground.



Hose & Tubing

Parker's self-grip Push-lok hose system & Fluoropolymer tubing have wide fluid compatibility perfect for pharmaceutical applications



Push-to-Connect Fittings

Pneumatic & thermoplastic fittings ensure reliable and compact connections



NS Series Couplers

Parker's Stainless Steel NS Series quick connect couplings provide an easy disconnection from the coolant loop on CT scanning machines



LM-Pro Linear Motor Proportional Valve

The LM-Pro miniature proportional valve provides a linear controllable flow range from 0.5 to 540 slpm. Ideal for respiratory care applications requiring precise control over a wide flow range.

Connecting you to higher productivity





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Ultra Low Carryover Valve

Increasing throughput, reducing carryover, and simplifying fluidic Circuits in clinical diagnostics or analytical instrumentation



BTX-Connect Pump

The BTX-Connect pump offers advanced control options, best in class quality and reliability



Helix Miniature Piston Pump

Helix Miniature Piston Pump (Gas)



VSO LowPro Miniature Analytical Proportional Valve

Designed for 1 SCCM to 6.5 SLPM gas flow control in analytical instruments, compact, durable and easy to mount.

Connecting you to higher productivity





Machine Tool

Parker is committed to offering the machine tool industry the most comprehensive array of products and technologies, meeting the current and future needs of the industry. Parker offers hose, fittings, and specialty valves for CNC turning centers, CNC machining centers, production/specialized machines, and more.



Easy Assembly and Organization

With Parker's exclusive color-code system with our Push-Lok hoses and Push to connect fittings



Fire-Resistant Covers Available

Ideal for applications near welding operations



DIN Soft Seal Flareless Fittings

EO-2 fittings incorporate a soft seal with the 24 degree cone flareless connection for reliable, leak-free connections.



Assemblies in Seconds

Push-Lok assemblies can be made in seconds, saving valuable time and cost



Weld Fittings

Cost-effective metal fitting designed for welding applications available in inch or metric

Offering energy and operational cost savings for factory systems





Material Handling

Being able to use equipment easily and safely ensures improved productivity in a field where minutes matter. Fluid Connectors Group has successfully developed and integrated products for material handling solutions that address the needs of forklift, telehandler and reachstacker manufacturers.



High Performance PU-cover Rubber Hose

Suitable for applications that require high flexibility, tight bend radii, abrasion, ozone, weathering and seawater resistance



Over-the-Sheave Hose

Parflex over-the-sheave hoses can withstand the strains of continual flexing



HTMA Non-Spill, Flush Face Quick Couplings

Parflex over-the-sheave hoses can withstand the strains of continual flexing



SensoControl

Fast and easy connection and disconnection with minimal spillage and limited air inclusion



Seal-Lok (O-Lok) O-Ring Face Seal Tube Fittings

Provides a leak-free connection in high-pressure, vibration and impulse environments

Ensuring safety and optimal performance





Mining

Equipment performance, uptime and worker safety in remote, hazardous environments are key challenges in the mining industry. Parker provides a variety of innovative products to help engineers solve inherent off-road industry challenges. These products ensure optimal performance, digital transformation, efficiency, and overall, help them build a better tomorrow.



SuperTough Cover

Provides excellent abrasion resistance, specifically to ozone and cold flexibility



Coalmaster® & Fire Suppression

Tight bend radius & abrasion resistant. up to 6500 psi conforms to AS 2660 Class A and AS/NZS 2554 Class A MSHA, LOBA, & British Coal standards



SteckO® Fittings

Designed for mining to get the job done faster with wrenchless assembly and disassembling



Onsite® Services

Teams of Onsite professionals provide services such as audits, inspections, assembly, and documentation



Full Flange System

Patent-pending design. Flange attaches to the hose after the hose fitting has been crimped to the hose

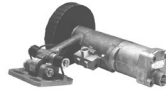
Reducing emissions & creating safer work environments





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Sequence Control Valves

Code 200 is a sequence control valve which switches on electrical equipment by detecting the movement of a conveyor belt in dust suppression applications.



Venturi Spray – Code 1912

Venturi spray nozzle for the purpose of dust suppression on a cutting drum in mining that maximizes efficiency, whilst minimizing the amount of water it uses.



Spray Control Valves

Code 100 spray control valve is a mechanically operated spray control valve used for dust suppression in mining where a conveyor belt is used.



Pendulum Valves

Code 15 dust suppression valve is used on conveyor belts to regulate the flow of liquid through a simple cam operation, therefore minimizing water usage.



Fluid Control Valves

User-friendly inline stop valve that regulates and isolates fluid in pipelines and systems for mining applications, with handwheel and key fitting options.

Reducing emissions & creating safer work environments





Processing

Manufacturers everywhere count on Parker's broad experience for monitoring systems and depend on its air, gas and fluid handling solutions to ensure safety and quality in industrial, food, and chemical processing environments.



Food Grade Hose

Parker's PURE food grade hoses enable a clean and safe transfer of a wide variety of foods, beverages and sanitary materials



PTFE Flare Seal Hose

The unique benefit offered by a PTFE Flare-Seal hose is that the PTFE hose liner actually passes through the inside of the fitting and is then flared over the face of the fitting



SensoNODE

Parker's SensoNODE™ Sensors and Voice of the Machine™ Software are IoT-empowered solutions that create new, advanced condition monitoring possibilities to reduce downtime and decrease maintenance costs



FDA Compliant Fittings

Stainless Steel fittings for wash-down applications

*Solving processing challenges
for manufacturer's everywhere*





Power Generation

Whether for combustion turbine, combined cycle, fossil fuel or nuclear power, Parker's products coupled with expert engineering design support and backed by a worldwide integrated network of manufacturing plants, distributors and MRO outlets, empower true innovation in the power generation industry.



High Pressure Hose

Parker's hose range covers pressures up to 6,000 PSI



Triple-Lok® 37° Flare JIC Tube Fittings

Provide a reliable leak-free metal to metal connection solution for most high pressure hydraulic applications



High Temp Quick Couplings & Fittings

High temperature quick couplings operate up to 600° F/315° C and Seal-Lok/O-Lok Xtreme fittings are rated to 1200° F/650° C



Heavy Duty Coolant Hose

The silicone construction resists chemicals, aging, cold leaks, cracking, delamination, heat, ozone and peeling to maximize performance

*Driving global, renewable
energy innovation*





Semicon

Parker provides a variety of innovative products to help engineers solve inherent semiconductor industry challenges. These products ensure optimal performance, digital transformation, efficiency and, overall, help them build a better tomorrow.



Stainless Steel Quick Couplings Series 20

Available in single shut-off and double shut-off functions, also with non-spill design suitable for gas, liquids, and aggressive media.



Transair Stainless Steel Pipe

Transair Rigid Aluminum Pipe delivers superior performance for compressed air, vacuum, and industrial/inert gas applications.



Stainless Steel Seal-Lok Fittings

Seal-Lok O-ring Face Seal (ORFS) stainless steel fittings create leak-free connections and are available in non-standard configurations



NSS Series Couplers

Offering superior flow for cooling circuits in semiconductor manufacturing

*Driving global, renewable
energy innovation*





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Ultra-High Purity (UHP) Regulators

Provides precise, stable control of process gases in downstream point-of-use applications, reducing short- and long-term costs for semiconductor OEMs, integrators, and fab facilities



UHP Check Valves

F9 Series features a patented, asymmetric spring design for consistently quiet operation. Sized to conserve panel space



UHP Bulk Gas Distribution

High flow bellows. Unique design reduces valve weight, lowering installation costs

*Driving global, renewable
energy innovation*





Shipbuilding

Whether it's a cruiser, tanker, pleasure boat, barge or yacht, Parker has the products for all your marine applications. With over 500,000 parts to meet your various marine system needs, Parker helps to keep all the essential on-deck and below-deck machinery and safety equipment operating optimally.



Shiphape Hoses

For air compressors, pressure washing, sand blasting, wash down and welding



Complete Piping Solutions

Single source solution for complete service package includes engineering, construction, and installation



Extra Rugged Quick Couplings

Quick Couplers up to 10,000 psi with high strength CF6 free steel, stainless steel or electroless nickel plating



Check Valves

DT Series offers compact, flow control to protect critical hydraulic components



Flange Systems

F37 Parflange system for tube flanges eliminates the need for costly welding at pressures up to 420 bar

Keeping equipment operating efficiently





Shipbuilding

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Lift Check Valves

Stainless steel lift check valves have been designed to reduce leakage across the seat, maximize lifetime operation and reduce maintenance and spares cost for ship operators



Float Level Isolation Valves

FLIV eliminates the problems faced with gate valves of accidental cutting of the float tape that results in both tape and float falling back into the cargo tank



Swing Check Valves

The valves are designed and manufactured for use with LNG, LPG and other flammable gas services



Cryogenic Actuated Globe Valves

Designed and manufactured for use on LNGC, FSRU & FLNG in accordance with BS6364

Keeping equipment operating efficiently





Oil and Gas

The oil and gas industry depends on reliable products operating in critical settings, while requiring the need to maintain safety and strict compliance. From land rigs to offshore drilling packages, Parker provides all the components necessary to keep you exploring and producing at peak efficiency, even in the harshest of conditions.



High Performance Hose

Tough Cover hoses for drilling applications, Fire Armor BOP tested, rated and approved by Lloyd's Register Meets API 16D/API 7K



High Pressure Hose

Our Cement Slurry Hose requires ½ the labor time of iron



Downstream Hose

Transfer hoses for refinery processing, transport & delivery with superior collapse resistance strength



Subsea Quick Couplings

One of the first couplers with working pressure of 20,000 psi, allowing operators to reach more reservoirs



2,3,5 Way Instrument Manifolds

Compact and lightweight multiple block instrument manifold valves for remote installation to pressure or differential pressure (flow) measurement devices. Available in pressure ratings up to 6,000 psi (414 bar) and 10,000 psi (689 bar)

Increasing productivity through technological advancements





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CPI Series Fittings

Single ferrule compression fittings, are designed to effectively seal and also resist vibration and thermo-cycling conditions in process applications.



A-LOK Series Fittings

two ferrule compression fittings are designed for leak-free connections in process instrumentation and industrial applications.



B Series Ball Valve

"free floating " ball design, offer superior performance in a variety of pressure and temperature applications in process, and instrumentation applications.



P to I Valves

designed to replace conventional multiple-valve installations currently in use for interface with pressure measuring systems in process control applications.

Increasing productivity through technological advancements





Transportation

Parker provides a variety of innovative products to help engineers solve inherent transportation industry challenges. These products ensure optimal performance, digital transformation, efficiency and, overall, help them build a better tomorrow.



Transportation Hose

Parker offers a broad portfolio of transportation hoses with our extensive line of airbrake fittings



Patented Solutions

Electrically heated SCR hoses lock in heating



PTC Fittings

Brass or composite push-to-connect fittings for air brake systems



Designed for Various Fluids and Gases

Parker's transportation products are compatible with CNG, LNG and Hydrogen and have the following approvals/standards:

- CSA
- CGA ISO
- NGVI
- ANSI
- DIN 74234/73378
- ECE R67
- ECR R110
- ISO 7628
- EN45545- UL



FM80 Fuel Regulation Module

An integrated and efficient gas handling system for both medium- and heavy-duty vehicles.

*Keeping our world moving
safely and reliably*





Transportation

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Instrumentation Quick Couplings

Designed for quick connect / disconnect of gaseous Hydrogen in point of use and sampling systems. Suitable from Vacuum to full rated pressure.



A-LOK Series Fittings

Providing reliable operation in cryogenic, pressure and thermal cycling and vibration applications. Manufactured at an IATF 16949 certified plant and EC-79 approved for Hydrogen service.



Safety Relief Valves

Designed to protect piping, cryogenic static storage, and trailer tanks against damage from excessive overpressure. A lift-limiting stop helps prevent valve instability when discharging from or into the lengthy piping runs.

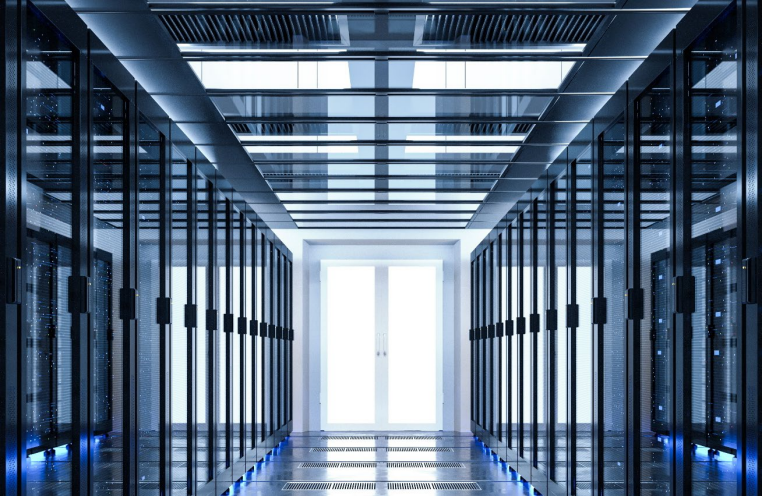


Pressure Sensor

The SCP04 pressure sensor is designed to meet the chemical and physical requirements of hydrogen applications.

*Keeping our world moving
safely and reliably*





Electronics

Managing heat in electronics has increasingly become one of the biggest challenges in optimizing performance. Thanks to our decades of experience in electronics and semiconductor industry expertise, our portfolio offers the right products for tasks of any size or complexity.



Chemical Compatibility

TrueSeal Kynar product range offers unique solutions for applications with high temperatures and the strongest chemical concentration



Leak-Free Compact Connectors

Parker's LIQUIfit® Cartridge allows for custom integration, providing your product or equipment with a clean profile while reducing labor costs and leak paths



HPC Direct Liquid Cooling

Parker's 801 hose has a pressure range of 200-350 PSI, and is amongst the Push-Lok Plus multipurpose hose line which features the widest fluid compatibility, application range and size range in the industry



Quick Couplings

Dry break quick coupling system with nominal diameter 3/6/9/12 for thermal management applications up to 60 bar

Influencing how engineers approach their work





Thermal Management

Parker has broad expertise in thermal management solutions for electronics, transportation, power generation, industrial markets and more. We can speak your industry's language and help you find a solution that works for your unique set of requirements. Fluid Connectors Group solutions include fluid connectors, quick couplings, and hose products.



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Quick Couplings

Dry break quick coupling system with nominal diameter 3/6/9/12 for thermal management applications up to 60 bar

Proven to absorb and redirect heat away from critical parts





HVAC and Refrigeration

Parker Hannifin offers a variety of products and systems that are designed to improve the efficiency and performance of HVAC and refrigeration equipment.



Refrigerant Press Fittings

ZoomLock MAX refrigerant press fittings provide a faster, cleaner, safer connection using a braze-free, flame-free, refrigerant piping solution for HVACR systems.



Liquid Line Sealed Model Filter-Driers

The Catch-All series sealed model filter driers provide excellent contamination control to ensure the full life, capacity, and efficiency of air-conditioning or refrigeration systems up to 20 tons.



Refrigerant Valves

Our refrigerant valves portfolio includes a variety of valve types that can work with both commercial refrigerant and ammonia media. With the capability to operate under high working pressures, temperature ranges, our refrigerant valves can be used for a variety of applications

Proven to absorb and redirect heat away from critical parts





Distribution

Parker Hannifin's global distribution network is unparalleled in the industry. Parker customers are serviced by local partners in local language. Through this network, customers have instant access to Parker's product range as well as services carried out by our distributors.



Knowledgeable Staff

Our expertly trained staff has the experience to help you find a solution



Local Support

Local access to spare parts, maintenance, repair and overhaul items



A True Partnership

Developing new innovative solutions together



Extensive Offering

Broadest technology platform compared to any competitor



Solution Minded

Integrate one or multiple Parker technologies to meet our customer's application needs

*Backed by a worldwide,
integrated network*





Retail

ParkerStores are your local source for hydraulic and pneumatic products backed by the knowledge and application expertise of our store teams. ParkerStores are focused on minimizing downtime and maximizing efficiency at every jobsite we serve around the world.



Value-Added Services

Equipment rentals, fluid sampling, on-location consultation and training



Knowledgeable Staff

Our expertly trained staff has the experience to help you find a solution



Quick and Easy

1000's of products available next day, assured with the dependable quality to help our customers achieve optimum uptime and reliable performance



ParkerStore 24/7 Hose Doctor

Mobile hose repair 24/7 at your site by a skilled hydraulics technician



Custom Hose Assemblies

We make hose assemblies to your specifications while you wait

Backed by knowledge and application expertise



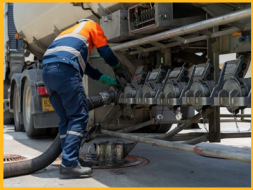
Products and Services



Product Technologies

Legacy FCG and ING

HOSE AND TUBING



HIGH PRESSURE
CONNECTORS



LOW PRESSURE
CONNECTORS



PROCESS
INSTRUMENTATION



FLUID AND CLIMATE
CONTROL



Hose and Tubing

PLATFORM



Parker hoses and tubing are integral components of high pressure systems that control motion, and low pressure systems that transfer materials from place to place.

Parker's highly engineered products meet or exceed a variety of industry standards, and are offered in a wide range of standard and custom sizes, pressures and temperature capabilities.



Hose and Tubing

Hoses



Hose Fittings



Tubing



Hose Assemblies



Industrial Hoses



Pre-Formed Hoses



Equipment



Hose and Tubing



Rubber Hose

- Designed, tested & approved to meet and exceed global standards
- Broad Range of hose constructions to meet the needs of demanding applications and markets
- Available in a wide array of sizes and pressures



Thermoplastic Hose

- Clean
- Variety of core tube options including Nylon, Copoly, and Fluoropolymer
- Compact O.D.
- Reduced weight
- Minimal length change during pressurization
- Reduced noise and vibration



Fluoropolymer Hose

- Temperatures up to 500°F/260°C
- Lowest coefficient of friction
- FDA & USP Class VI compliant
- Best chemical resistance

Hose and Tubing



Tubing Products

- Formed products reduce installation times by up to 60%
- Traceability - Complete "lot-to-lot" traceability from resin to finished product
- Custom sizes available
- Many products have FDA, NSF-51, NSF-61 and USP Class VI compliance



Multitube® Products

Thermal insulated and heat traced tubing products for chemical processing, refineries, ship building and subsea

- Superior project vendor support
- System solutions designed into bundles and umbilicals
- Faster response times
- Reduced weights



Equipment & Accessories

- "System" approach
- Simple to operate
- Ideal for in house supplemental capability
- Portable and fixed units



Hose and Tubing Differentiators



The most compact hoses available with pressures up to 60,000 psi/ 4,000 bar

Globally available products designed and tested to meet global standards



Bonded, formed and bundled assemblies

Tubing:
Nylon, PP, PE, PU, PVC, Airbrake, PTFE, FEP, PFA, High Purity PFA

Meets/Exceeds SAE, EN, DIN, ISO, FDA, USP VI Industry Standards (dependent on style)

Connectors

PLATFORM



Parker's comprehensive range of fittings and quick couplings will keep your application up and running with reliable, leak-free connections that outperform in the toughest environments.

No matter what your application, we have the fittings and couplings to help you avoid costly downtime.



Connectors – High Pressure

Fittings



**Diagnostic &
Tube Fabrication**



**Piping
Systems**



**Quick
Couplers**



Connectors – High Pressure



Fittings, Adapters & Quick Couplers

- Largest breadth of product
- Leading corrosion resistance technology
- Innovative Sealing and Connection Solutions
- Standard and custom engineered products are globally available and tested; approved to meet/exceed global standards



Tube Fabrication Equipment & Tooling

- Largest selection of equipment and tooling for flaring, flanging, presetting, cutting, and deburring
- Simple to operate
- Financial savings through tube fabrication rental and repair services



Hydraulic Piping Systems

- Quick connect mechanical connections
- Reduced labor content
- Pipe routing / system design services with enhanced flow rate
- Broad range of sizes and pressures



Connectors – Low Pressure

Fittings



Function Fittings



Accessories



Quick Couplers



Valves



Connectors – Low Pressure



Fittings

- Largest breadth of product
- Multiple materials and connections meet a wide range of specifications (ie FDA; DOT; SAE, NSF)
- Inch and metric sizes offered in various thread types
- Global and local support with date coding and traceability



Aluminum Piping Systems

- Installs 6 times faster than traditional systems
- Modular design for easy reconfiguration of system
- Pipe and fittings are 100% recyclable with 10 year warranty on all components
- “Full-Bore” design for optimum flow and minimum pressure drops



Quick Couplers

- Widest variety of sizes, configurations, and materials featuring high flow, push to connect, and safety-exhaust designs
- Several industry interchange profiles

Connectors – Others



Swivels

- Eliminates hose twist and torque
- Wide variety of sizes and port configurations
- In-line and 90 degree options



Valves

- Broadest line of ball valves
- Variety of check valve sizes, configurations and crack pressures
- Hard and soft seat versions in multiple materials



Tube Accessories

- Improve safety during installation
- Prevent accidental disconnection
- Aid in network identification
- Facilitate the operator's task

Connectors - Others



QuickFit Oil Change System

- Cleaner, safer, faster system reduces number of steps in process and eliminates spills
- Single access point to purge, evac, and fill engine oil
- Compatible with engine types and machinery across multiple markets



Sensors & Diagnostic Equipment

- Diagnostic instruments and wireless sensors
- Critical information detection for optimizing, maintaining equipment, and condition monitoring
- Remote access via cloud software
- Portable field kits to analyze pressure, temperature and flow data

Connectors Differentiators



Innovative sealing and connection solutions

Custom engineered fittings, couplings and valves for OEMs and MRO Aftermarket



Broadest fitting & quick coupling portfolio in the industry

Industry leading corrosion resistance and non-welded piping solutions

User Experience: Fitting Finder app and Part Lookup tool



Process Instrumentation

PLATFORM



Parker provides highly-engineered flow control solutions, providing performance advantage in fluid system segments which optimize safety and efficiency.

Parker's highly engineered products meet or exceed a variety of industry standards, and are offered in a wide range of standard and custom sizes, pressures and temperature capabilities.



Process Instrumentation

Fittings



Solenoid Valves



Pumps



Water Analyzers



Manifolds



Process to Instrument Valves



Regulators



Instrumentation Valves



Process Instrumentation



Fittings

- Pressures up to 150,000 PSI
- Available in a wide range of corrosion resistant alloys
- Single, Double Ferrule connections, Cone and Thread technology



Solenoid Valves

- Normally open / Normally closed
- Broad range of types and configurations for applications across many industrial markets
- Peerless reliability, compact and lightweight space-saving options, exceptional flow control, high pressure capabilities, and an excellent return on investment.



Pumps

- Gas and liquid pumps
- Provides options for applications in analytical chemistry, clinical diagnostics, gas detection, and patient therapy medical devices.

Process Instrumentation



Water Analyzers

- THM analysis for local water authorities
- 30-minute analysis time
- Simple to operate, plug and play solution



Manifolds

- Direct or remote mount pressure control technology
- Integral ended connections available alongside standard NPT
- Range of materials, sizes, pressures and temperatures



Process to Instrument Valves

- Monoflange, Double Block and bleed, API, TAMAP
- Range of materials, sizes, pressures and temperatures
- Tru-Loc mechanical sealed end connection

Process Instrumentation



Regulators

- Back pressure regulator designed to maintain a specified upstream pressure in a gas delivery system
- Precise control, superior strength and corrosion resistance
- The regulator also has a diaphragm which provides an outlet for pressure stability with changes in flow



Instrumentation Valves

- Small bore instrumentation valves up to 20,000 PSI for topside and subsea applications
- Superior project vendor support
 - System solutions designed into bundles and umbilicals
 - Faster response times
 - Reduced weights

Process Instrumentation Differentiators



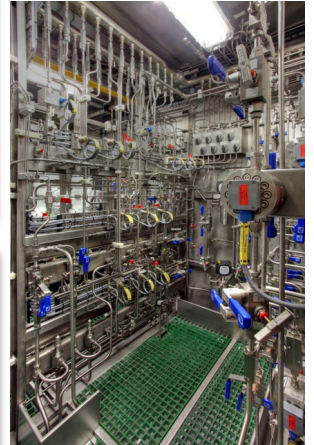
Material science &
anti-corrosion
technology solutions

Globally available
products designed and
tested to meet global
standards

System
Designs & Project
Specification

Environmentally
friendly solutions

Ultra high
purity solutions



Fluid & Climate Control PLATFORM



We provide a wide range of refrigeration and air conditioning components that cover a large number of applications. We are the preferred solutions provider to OEMs, wholesalers, contractors & end-users for climate comfort and food preservation.

The design, development and manufacturer of an extensive, diverse range of fluid control products include: solenoid valves, pressure regulators and systems.



Fluid & Climate Control

**Flame-Free
Refrigerant
Fittings**



**Expansion
Valves**



**Electronic
Valves**



**Regulating
Valves**



Filter / Dryers



Fluid & Climate Control



Flame-Free Refrigerant Fittings

- Refrigerant fittings provide a faster, cleaner, safer connection using a braze-free, flame-free, refrigerant piping solution for HVAC/R systems



Electronic Expansion Valves

- Designed for direct expansion refrigeration, air conditioning and chiller systems
- Precisely meter refrigerant and provide superior superheat control



Regulating Valves

- Pressure regulating valves are designed for use on Air Conditioning and Refrigeration units
- They are designed to prevent overloading of the compressor motor



Filters & Dryers

- Filter driers provide excellent contamination control to ensure the full life, capacity, and efficiency of air-conditioning or refrigeration systems up to 20 tons

Fluid & Climate Control



CO2 Innovation
technologies with low
energy consumption,
responsible engineering

**Preventative
Maintenance**
Identify unseen problems
and predict failures
through real-time alerts,
before they lead to
thousands of dollars in
wasted energy and/or
equipment failures



**Operational
Optimization**
Quickly determine when
systems are not
functioning properly to
detect hidden operational
inefficiencies and energy
waste

System Protection
To obtain long term
system life, it is
important to keep
contaminants to a
minimum

**Energy Management
Solutions**
Optimize energy
consumption, improve
operational efficiency
and generate income
through load response
programs

Services



Thanks to our experience as both a manufacturer and a service provider, Parker can help you get ahead of the competition.

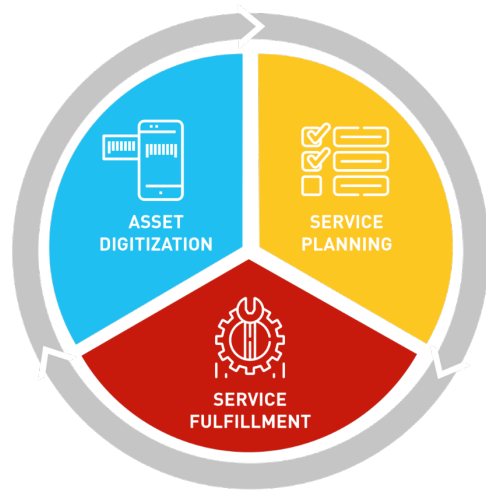
Parker has organized its vast services network to deliver best in class solutions for your latest challenge. Our exclusive combination of engineering, asset optimization, IoT, OEM, training, supply chain and testing services are unparalleled in the industry.



What is Parker Tracking System?

Parker Tracking System (PTS) is an innovative component-tagging and asset management solution offered through Parker and our business partners in over 60 countries worldwide.

Our innovative architecture allows asset data to be easily and securely shared between users.



Parker Tracking System



Parts are tagged



Maintenance is scheduled



Maintenance is performed



Replacement made



Parker Tracking System



Asset
Location



Transfer
Records



Asset
Inspection



Databooks



Scheduled
Events



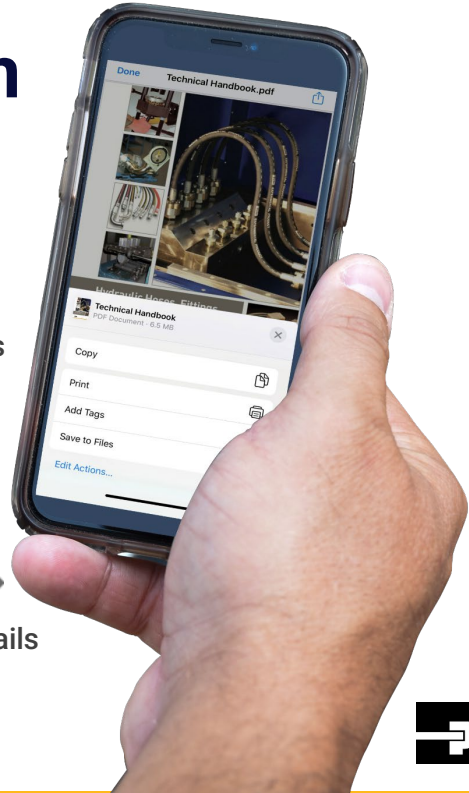
Asset
Geneology



Email
Notifications



Export Details



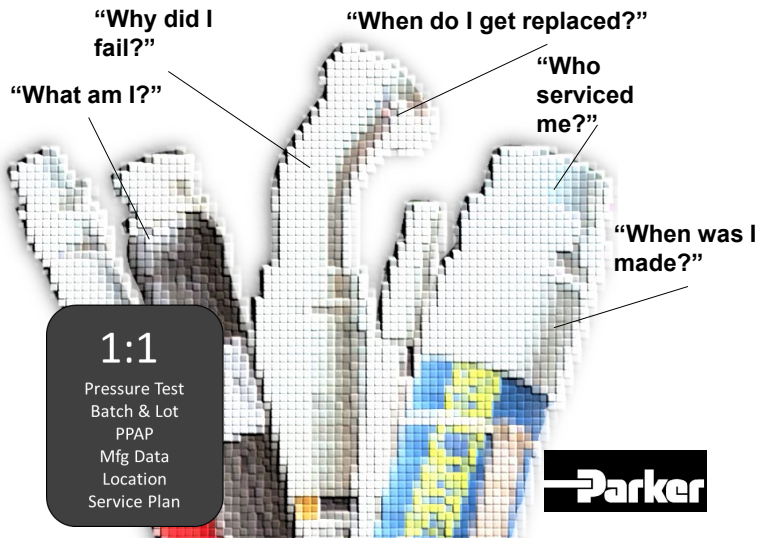
Why Digitize?

By serializing assets, we can provide a unique voice and history for every component, which can be accessed through our application or directly by client applications



1:MANY

Brochure
Install Guide
User Manual
Certs / DNV / ABS
Video
Service Plan



1:1

Pressure Test
Batch & Lot
PPAP
Mfg Data
Location
Service Plan



Hose Assemblies Online



Hydraulic hose replacement just got **easier** and **more convenient**. Your PTS ID number is the only configuration specification you'll need to order your hydraulic hose assembly replacement, **today**.

1

Enter PTS ID number from hose assembly on www.parker.com

2 **PTS ID: XXXXXXXX**
This matches a Parker Tracking System PTS...

A match to the PTS ID number will be acknowledged

3 **Hose Assembly**
PTS ID: XXXXXXXX
Assembly Includes Parts:

Data will be displayed about the hose assembly with price

4 **Hose Assembly** Quantity:
PTS ID: XXXXXXXX
\$XXX.XX

End customer can place and order and it is shipped by an eCommerce distributor



Advanced Condition Monitoring

SensoNODE Gold (Cloud)
SensoNODE Blue (Bluetooth)
Voice of the Machine Mobile



Wireless
Continuous
Remote
Monitoring



Wireless
Route
Based
Monitoring




Monitor Key
Machine and
Equipment
Parameters



Customizable



A woman with long hair, wearing a dark jacket, is riding a motorcycle. She is looking towards the left, where a city skyline is visible across a body of water at dusk. The sky is a mix of blue and orange, and the city lights are glowing. The motorcycle's mirror and handlebars are visible.

You may not discover your
purpose in a day.
**But you will spend every
day after living up to it.**

○ → **Enabling Engineering
Breakthroughs that Lead
to a Better Tomorrow**



Thank you

→ It's in our DNA.



PUTRI



ENGINEERING YOUR SUCCESS.