



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

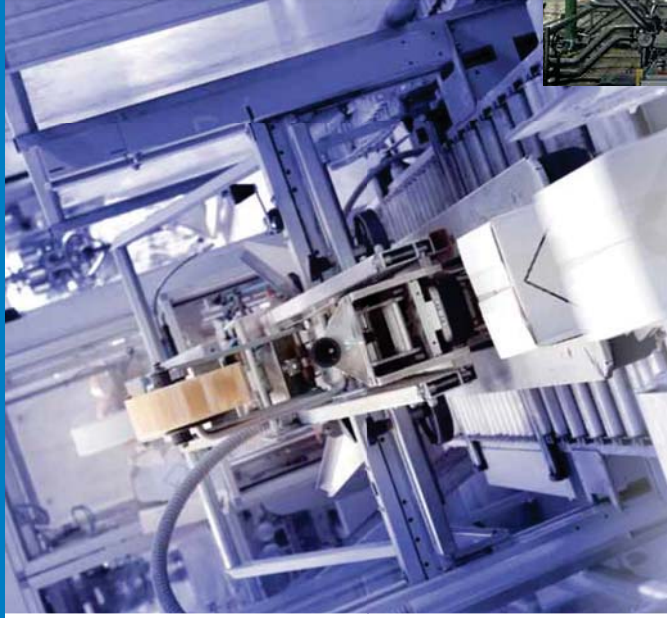


Fluid System Connectors

Quick reference guide



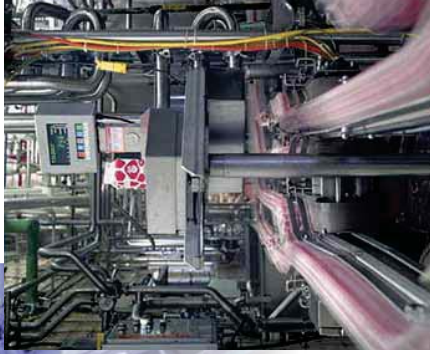
ENGINEERING YOUR SUCCESS.



We're a company built to partner with our customers in an effort to be attentive to market needs. The automation market includes a wide variety of applications ranging from packaging and conveying to robotics. By designing products in composite and brass, we offer customers a product range as varied as the market applications.

THE APPLICATION ENVIRONMENT

- Dynamic, static, and rotary applications
- Fast assembly and disassembly of systems
- Controlled pneumatic installations
- Pressures up to 300 psi



Market Trends:

- Smaller footprint for tighter spaces
- Robotics use will increase, with the adoption of intelligent robotics providing significant new strategic options
- The focus of automation will be expanded to embrace process quality and flexibility
- Machine-to-machine communications will generate increasing efficiencies and productivity

PRODUCT SPACES	1/8"	1/4"	3/16"	1/2"	3/8"	5/8"	7/8"	4mm	6mm	8mm	10mm	12mm	14mm	Type
Prestolok Brass	300	300	300	300	300	300	300	300	300	300	300	300	300	Push-to-Connect
Prestolok Composite	290	290	290	290	290	290	290	290	290	290	290	290	290	
Prestolok PLM	—	290	290	290	290	290	290	290	290	290	290	290	290	
Prestolok PLS	—	290	290	290	290	290	290	290	290	290	290	290	290	Function
Flow Controls	145	145	145	145	145	145	145	145	145	145	145	145	145	

Maximum working pressure (psi) by tube size at 73°F



Prestolok Composite Fittings

Compact, light-weight, composite fittings commonly used in pneumatic automation applications. Available in a wide array of configurations and sizes.



Prestolok PLM Fittings

Compact push-to-connect fittings with a high phosphorous, FDA nickel-plate allowing these fittings to be used in applications where exposure to aggressive environments is present.



Prestolok Metal Fittings

Compact push-to-connect nickel-plated brass fittings, commonly used in pneumatic automation applications. Specially designed for low-pressure circuits where fast assembly, disassembly and reassembly are important. Featuring an ergonomic positioning swivel, Prestolok fittings are compatible with a wide array of tubing choices.



Prestolok PLS Fittings

The all stainless steel construction with FKM seals offers excellent resistance to aggressive environments and fluids. The smooth surface design is aimed at reducing retention zones for safe and easy cleaning. Suitable for applications in markets such as chemical, food, packaging, and medical.



Nylon Tubing

- Flexible Nylon tubing uses high-grade resins for strength and flexibility for routing in tight spaces
- Semi-rigid, high-strength Nylon uses high-grade resins without the addition of plasticizers for higher-pressure tubing applications
- Pure Air Tubing (PAT) is the tubing choice for pure air systems (semi-conductor) due to its cleanliness in addition to excellent chemical and UV light resistance

Polyurethane Tubing

- A flexible, kink-resistant, and abrasion-resistant material commonly used in pneumatic applications
- Available in multiple transparent and opaque colors for system color-coding
- Available in the following diameters (measurement of material hardness):
 - Medium durometer (90 = less flexible)
 - High durometer (>95 = least flexible, highest pressures)

Integrated Fittings

Compact Flow Control
Excellent performance of flow and suited for reduced spaces due to their small size.

Miniature Flow Control
Especially adapted for very small-sized pneumatic applications.

Swivel Outlet Flow Control
Designed to allow a vertical or angled tube exit where access is restricted.

Plug-in Flow Control
Can be directly mounted into existing fittings and allow very compact installations.

In-Line Flow Control
Easily added to existing circuitry. Simply splice it into the cylinder port line.

Compact Metal Flow Control
For use in severe conditions (temperatures, sparks, abrasion, etc.)

Check Valve
Allows air to pass in one direction while blocking flow in the other direction.

Blocking Valve
Prevents damage to work and equipment in the event of a loss of pressure.

Slow Start Valve
Enables you to control the rate supply pressures are introduced into your system after it has been vented.

Threshold Sensor
Detects the absence of pressure and translates it to a high-pressure pneumatic output.



Increased awareness of volatile organic compounds, microorganisms, chemicals, and pesticides in the world's potable water supply has intensified public concern about water quality. By identifying these trends, Parker's capability to address water quality concerns has kept pace with environmental and regulatory shifts in federal and state laws. From our new low-lead brass fittings and valves which meet the strictest standards for potable water use... to our sustainable, high performance push-to-connect fittings that limit the development of biofilm... Parker engineers are leading the way by developing innovative products for emerging applications that will keep water and beverages cleaner and safer.

Market Trends:

- Pressure to lower costs will continue in the face of a difficult global economy
- Spurred by the need to differentiate and expand into new markets, OEMs will look to their supplier partners for new and innovative products
- Concerns over water and beverage safety will cause the adoption of new regulatory requirements and safeguards for equipment and components which handle potable water
- In food and beverage, increasing consumer demand for variety, choice, and customization will mean more flexible and agile manufacturing with faster changeover time

THE APPLICATION ENVIRONMENT

- Exposure to aggressive agents used for water treatment, including chlorine, chloramines, ultraviolet light, and ozone
- Sustained, high-temperature and high-pressure conditions for fittings used in hot beverage dispensers
- 24/7 demand
- Increasingly stringent sanitary and aseptic standards for food and beverage applications, as well as for the transport of ultra pure water



Product Series	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	4mm	6mm	8mm	10mm	12mm	14mm	Type
LIQUIFIT™	—	—	230	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	Push-to-Connect
TrueSeal™	—	—	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	Compression
Fast & Tie®	—	—	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	Barb
Par-Barb®	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	Valve
TrueSeal™ Ball Valves	—	—	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	Valve
LIQUIFIT™ Ball Valves	—	—	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	Valve

Maximum working pressure (psi) by tube size at 73°F



LIQUIFIT™ Fittings

Compact, push-to-connect, full-flow profile fittings for water applications. LIQUIFIT™ is suitable for water, potable liquids, and neutral gas applications. It offers high chemical resistance to such things as chlorine, cleaning agents, and UV. It also limits biofilm development. Additionally, LIQUIFIT™ meets key food quality contact standards and regulations, including FDA and NSF 61 and 51.



TrueSeal™ Fittings

Robust push-to-connect fittings ideal for water treatment and harsh chemical environments. Available in acetyl, polypropylene, and Kynar, TrueSeal™ fittings offer FDA and NSF 51 compliance; NSF 61 and NSF 51 compliance. Widely accepted in water conditioning, filtration, and reverse osmosis applications, and on water, soft drink, beer, wine, and condiment dispensing systems.



Low-Lead Fittings

These cost-effective low-lead fittings are designed for use on equipment that dispenses or conveys water for human consumption, which includes drinking and cooking. These fittings meet California AB 1953 standards for potable water use. Suitable for high-pressure beverage brewing and dispensing at temperatures up to 400°F and will not adversely affect product flavor.



Fast & Tie® Fittings

A great solution for water applications. Fittings are NSF 51 and FDA compliant and assemble by hand. Use with nylon, polypropylene, soft metal, or plastic tubing.



Par-Barb® Fittings

Specially engineered with a four-barb design that generates maximum gripping and sealing power when combined with a hose clamp. Use with clear vinyl tubing, urethane, and a variety of rubber tubing and hoses. Meet FDA and NSF 51 requirements and are ideal in medical, pollution control, and food and beverage applications, as well as irrigation, instrumentation, reverse osmosis, and deionized water systems.



TrueSeal™ Ball Valves

Precision-molded from an engineered polymer, these valves provide superior strength and chemical resistance. An EPDM D seal secures the connection with a larger surface area than standard O-rings. Full stainless steel gripping ring eliminates the need for locking clips. A full-flow, self-cleaning ball raises the bar for quality and durability. Availability in 39 configurations expands application possibilities.



LIQUIFIT™ Ball Valves

Made of an engineered polymer for superior mechanical strength and chemical resistance, LIQUIFIT™ ball valves offer an innovative design for maximum capability and optimum performance. Thirty-nine configurations expand application possibilities, while the valve's full-flow, self-cleaning ball raises the bar for quality and durability.



Polyethylene Tubing

- Meets FDA, NSF Standard 51 for all food contact applications, and NSF 61 for potable water applications
- E-Series tubing is made of 100 percent virgin resin material
- Meets ASTM D-1693 for stress crack resistance
- We also offer special PE tubing: FRPE (flame retardant & plenum rated) as well as HPDE (high density)

Polypropylene Tubing

- Meets FDA, NSF Standard 51 for all food contact applications
- Exhibits excellent chemical resistance to chlorinated water applications
- Commonly used in outdoor applications where UV light stabilization is required

In Transportation: Expert advice.



Market Trends:

- Concern over environmental issues will produce a move towards biofuels and hybrid vehicles
- Increased demand for worldwide product availability will spur global logistics and vendor partnerships
- The need for system solution partners will consolidate market suppliers and increase competition and pricing pressure

At Parker, partnership is more than a word. It's the way we think, the way we work, and the way we succeed. For us, innovation begins with new ways of collaborating. We routinely create integrated product development teams with our customers, collocating at customer facilities in order to work directly on site with customer design and business teams. Working together unleashes a free flow of ideas and information that promotes creativity, maximizes quality, and dramatically reduces time to market.

THE APPLICATION ENVIRONMENT

- Aggressive chemical exposure, including de-icing agents, calcium, and magnesium chloride
- Exposure to the elements
- Vibrations and shock products only
- Temperatures from -40°F to more than 200°F



Photo courtesy of U.S. Army

Product/Specs	Temperature	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	4mm	6mm	8mm	10mm	12mm	14mm	Type
PTC	-40°F to 200°F	—	—	—	250	250	250	250	250	250	250	—	—	250	250	250	250	Push-to-Connect
Prestomastic SAE Cartridges	-40°F to 200°F	—	—	—	250	250	250	250	250	250	250	—	—	250	250	250	250	
Manifolds	Pressure and temperature dependent upon manifold configuration	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Compression
NTA	-40°F to 200°F	—	—	—	150	150	150	150	150	150	150	—	—	—	—	—	—	
Air Brakes	-65°F to 250°F	—	—	—	400	400	400	400	400	400	400	—	—	—	—	—	—	
Transmission Fittings	-40°F to 220°F	—	—	—	150	150	150	150	150	150	150	—	—	—	—	—	—	
Vibra-Lok	-30°F to 275°F	—	—	—	1,000	1,000	900	900	900	900	900	—	—	—	—	—	—	
Air Brake Hoses	-50°F to 212°F	—	—	—	—	—	225	225	225	225	225	—	—	—	—	—	—	
Truck Valves	-30°F to 250°F	—	—	—	150	150	150	150	150	150	150	—	—	—	—	—	—	
Lanyard Valve	-40°F to 200°F	—	—	—	150	150	150	150	150	150	150	—	—	—	—	—	—	
Drain Cocks	-65°F to 250°F	—	—	—	150	150	150	150	150	150	150	—	—	—	—	—	—	

Maximum working pressure (psi) by tube size at 75°F

Prestomastic Fittings

These robust, all-brass push-to-connect fittings meet SAE J2494 and D.O.T. specifications. Designed for all D.O.T. truck and trailer applications, Parker Prestomastic fittings reduce assembly time versus compression style fittings by 90%. Ideal for tight applications with difficult wrench clearance. Use with Parflex SAE J844 type A and B tubing.

PTC Fittings

These light-weight, composite push-to-connect fittings meet SAE J2494, and D.O.T. specifications. Designed for all D.O.T. truck and trailer applications, Parker PTC fittings reduce assembly time versus compression style fittings by 90%. Use with Parflex SAE J844 type A and B tubing.

Prestomastic SAE Encapsulated Cartridges

A compact, economical design for simplified port machining. Weight reduction and pipe thread elimination are achieved in this O-ring seal push-to-connect port and tube end. Commonly used in D.O.T. applications.

Manifolds

Manifolds provide multiple tube junction connections in truck air applications. Bodies are produced from light-weight polyacety material. Please contact us for custom designs.

NTA Fittings

The most economical air-brake solution. Ideal for air brake and diesel fuel applications. NTA fittings meet D.O.T. air brake specifications. Pre-applied with Loctite® Vibra-Seal® thread sealant on all male pipe threads.

Air Brake Fittings

Economical compression-style fittings for copper air brake lines. Pre-applied with Loctite® Vibra-Seal® thread sealant on all male pipe threads. Air brake bodies (with the addition of NTA tube support) are interchangeable with NTA bodies for use with SAE J844 Nylon tubing.

Transmission Fittings

Ideal for pressure-protected pneumatic transmission applications. Offer a specially designed slotted sleeve to help eliminate notch stress related to over-torque. Use with SAE J844 type A Nylon tubing.

Vibra-Lok Fittings

Excellent in tough applications such as high vibration, high heat, mechanical shock, or tube movement conditions. The sleeve cushions the tubing, permitting the tubing to flex back and forth in the fitting. The seat design compensates for tube misalignment and tube surface defects. For use with seamed or seamless metal tubing: copper, aluminum, steel (Bundy), stainless steel, and glass.

Air Brake Hose Fittings

Field-attachable fittings for use with Parker 271 air brake hose. Easy to assemble and disassemble, these fittings meet D.O.T. standards when used with SAE J1402 air brake hose.

Truck Valves

Brass valves with metal-to-metal seats and fine-thread screw-down for positive sealing up to the valve's capacity. Pipe, flare, NTA and hose barb end configurations are available.

Lanyard Valve

Compact brass valve designed for releasing condensate from air tanks. Specially formulated low-temperature seal remains elastic down to -40°F.

Drain Cocks

Economical, high quality brass drain cocks are available with either external or internal seats.

Air Brake Nylon Tubing

For use in tractor, trailer and other mobile air brake instrumentation and air accessory systems. Meets SAE specification J844 Type A or B, D.O.T. FMVSS106, and performance requirements as specified in SAE specification J1131.

In Industrial: Increased efficiency, greater productivity.



From a complete range of standard, SAE off-the-shelf products to our innovative new BINS program, Parker Fluid System Connectors division is there for you in ways that make your business better. Our fluidic and pneumatic fittings, tubing, couplings, manifolds, and valves have been engineered to outperform, working together with a systems approach that streamlines development and speeds manufacturing.

THE APPLICATION ENVIRONMENT

- Exposure to a wide variety of chemicals, lubricants, fuels, and gases
- Dynamic, static, and rotary applications
- Vibration and shock
- Pressures up to 2,800 psi
- Temperatures from -65°F to 250°F

Market Trends:

- Growing demand for global logistics will spur vendor partnerships and single-source purchasing
- Economics will motivate companies to become leaner, and more globally competitive
- Globalization will increase the burden on companies to ensure product quality, sustainability, and universality

Product/Specs	1/8"	1/4"	3/16"	5/32"	1/2"	3/8"	5/16"	1/2"	3/4"	7/8"	4mm	6mm	8mm	10mm	12mm	14mm	Type
Compress-Align®	2,800	1,900	1,400	1,200	1,000	750	650	550	450	—	—	—	—	—	—	—	Compression
Poly-Tite	400	300	300	200	200	150	150	100	75	—	—	—	—	—	—	—	
Metric Adapters	150	150	150	150	150	150	150	150	150	2,600	2,600	1,800	1,500	1,300	1,000		
45 Degree Flare	2,800	1,900	1,400	1,200	1,000	750	650	550	450	—	—	—	—	—	—	—	Flare
Inverted Flare	2,800	1,900	1,400	1,200	1,000	750	650	550	450	—	—	—	—	—	—	—	
Access Valves	500	500	500	500	500	500	500	500	500	—	—	—	—	—	—	—	Barb
Dubl-Barb Hose Barb	150	150	150	150	150	150	150	150	150	—	—	—	—	—	—	—	
Pipe	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	—	—	—	—	—	—	—	Adapter
Garden Hose	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	—	—	—	—	—	—	—	
Ground Plug Shutoff	30	30	30	30	30	30	30	30	30	—	—	—	—	—	—	—	Valve
Ball Valves	30	30	30	30	30	30	30	30	30	—	—	—	—	—	—	—	

Maximum working pressure (psi) by tube size at 75°F

** Up to 22 mm tube size

† Hose size based on I.D.

45° Flared Fittings

An economical choice for a metal-to-metal seal, ideal for refrigerants, natural gas, propane, fuels, and other "hard to hold" liquids and gases. Common applications include flammable liquids and gases and hydraulic brakes. Use with copper, brass, aluminum, and welded steel hydraulic tubing that can be flared.

Inverted Flare Fittings

Offer similar performance to 45° flared fittings, except the metal-to-metal seal is internal to the fitting for tighter tube bends. Ideal for flammable liquids and gases and plumbing applications. Use with copper, brass, aluminum, and welded steel hydraulic tubing that can be flared.

Access Valves

Designed to offer convenient, low-cost access ports for refrigeration service. All fittings feature 1/4" SAE male flare access ports and are furnished with a finger-tight quick seal cap. Access valves with pipe connections have internal ODS solder cups. Access valves may be installed in any position on either high or low side for quick testing, pressure checking, purging, or charging.

Dubl-Barb Fittings

An economical choice as a push-to-connect brass barb that does not require a hose clamp. Applications include pneumatic systems and climate control. These compact, one-piece fittings are a quick way to connect polyethylene tubing.

Hose Barb Fittings

An economical choice for general-purpose fluid handling and pneumatics. Commonly used with water, coolant, and compressed air. Intended for use with rubber hose and a hose clamp.

Compress-Align® Fittings

Pre-assembled with a captive sleeve, always oriented for a faster installation. Commonly used in pneumatic systems, and plumbing even out-of-round tubing.

Poly-Tite Fittings

Compact, pre-assembled compression fittings designed for fast assembly. The acetyl copolymer sleeve holds plastic tubing in its place, even when the system pressure exceeds the tubing burst point. Use with thermoplastic or soft metal tubing.

Metric Adapters

A comprehensive range of adapters for NPT, BSPT, and BSPP pipe threads. Produced in both extrusions and forgings to meet exacting requirements.

Ground Plug Shutoff

Ground plug shutoffs are manufactured from castings or forged bodies for extra strength. Available with pipe, flare, and compression ends.

Ball Valves

Available in brass, stainless steel, and carbon steel in sizes from 1/8" to 3". Included are 90° valves, straight thread O-ring valves, 3-way and 4-way valves, miniature and micro-valves. Options include tee and oval handles, padlocking handles, actuators, and stainless steel componentry.

Pipe Fittings

Brass pipe fittings meet all functional SAE J512 industry requirements, with all threads made to Dryseal standards. Most pipe fittings are available in either forgings or extrusions. For use with brass, copper, or iron pipe.

Garden Hose Fittings

Connect garden hose to other garden hose, to pipe, or to tubing with these solid brass fittings. Hose-end threads are 3/4" garden hose thread. Swivel connections allow hose to twist without kinking. Hose barb ends for use with 97HC hose clamp or equivalent.

Metric Adapters

A comprehensive range of adapters for NPT, BSPT, and BSPP pipe threads. Produced in both extrusions and forgings to meet exacting requirements.

Ground Plug Shutoff

Ground plug shutoffs are manufactured from castings or forged bodies for extra strength. Available with pipe, flare, and compression ends.

Ball Valves

Available in brass, stainless steel, and carbon steel in sizes from 1/8" to 3". Included are 90° valves, straight thread O-ring valves, 3-way and 4-way valves, miniature and micro-valves. Options include tee and oval handles, padlocking handles, actuators, and stainless steel componentry.



Applying custom to appliances.

Working in conjunction with a major appliance manufacturer, we created a custom assembly that improved their manufacturing process as well as their product reliability. Developed from a custom brass forging, the Parker solution included a specialty machined thread and barb configuration as well as a tamper-proof tube assembly. The end result? A reliable, leak-free, error-proof connection. Not to mention one happy customer.



DESIGNED TO MEET YOUR NEEDS

Don't be boxed in by conventional thinking, or the conventional parts that go with it. Let Parker Fluid System Connectors create exactly what you need, when you need it. Whether it's a valve, a fitting, or a manifold, we can produce it in any size, quantity, or configuration, with any connector end. For prototypes, one-of-a-kind pieces, and emergency repair parts to small or large production runs, our ability to make the unusual usual has not only reduced lead times, but the price of lower-volume components as well. Designed to your specifications, drawings, or CAD files, our custom valves, fittings, and manifolds not only comply with SAE, ISO, DIN, JIS, ASTM, and MIL standards, they meet our own unwavering requirements for the highest possible quality.

PS	Plastic sleeve & tube support recommended
TS	Tube support recommended
BS	Brass sleeve recommended
CL	Clamp required

Product Size (inch)	Parflex Thermoplastic Tubing											Toxic Fluoropolymer Tubing					
	Industrial Tubing Series (Outside Diameter Shown)											Transportation Tubing			Fluoropolymer Tubing		
Polyethylene E & EB Inch (4.5,6,8,10) Metric (6,8,10,12)																	
Polyethylene PE Inch (2.5,4,5,6,8)																	
Polyethylene FRPE Inch (2.5,4,5,6,8)																	
Polyethylene HDPE Inch (4,6)																	
Nylon PAI Inch (2.5,4,5,6,8) Metric (4mm - 20mm)																	
Nylon NR Inch (2,3,4,5,6,8)																	
Nylon NTMA Inch (2,3,4,5,6,8)																	
Polypropylene PP & PPB Inch (2,3,4,5,6,8)																	
Polyurethane U (90 - 95 Shore A) Inch (2,3,4,5,6,8,10,12) Metric (4,5,6,8,10,12)																	
Polyurethane HU & HMM (-95 Shore A) Inch (2,3,4,5,6,8,10,12) Metric (4,5,6,8,10,12)																	
Polyurethane LU (-90 Shore A) Inch (2,2.5,4,6,8,12) Metric (4,6,8,10,12)																	
Polyurethane FR (Weld Tubing) Inch (2,2.5,4,6)																	
Clear Vinyl Inch (1/8" - 2 1/2")																	
PFT Air Brake (SAE J844) Inch (2,2.5,3,4,5,6,8,10,12)																	
Air Brake DIN 24324 (Nylon 12) Metric (4,6,8,10,12,15,16,18)																	
PFT Diesel Fuel Sizes 4,6,8,10,12																	
HTFL Diesel Fuel Sizes 4,6,8,10,12																	
PFA Fluoropolymer Inch (3/32 - 1 1/2) Metric (4mm - 12mm)																	
FEP Fluoropolymer Inch (1/8" - 1) Metric (3mm - 12mm)																	
PTFE Fluoropolymer Inch (3/32 - 1 1/2) Metric (3mm - 16mm)																	
PVDF Fluoropolymer Inch (2,3,4,5,6,8,10,12)																	

Parker Fluid Connectors Group

North American Divisions & Distribution Service Centers

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

Fittings:

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

Hose, Tubing and Bundles:

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

Worldwide Availability:

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

For information, call toll free...

1-800-C-PARKER
(1-800-272-7537)

North American Divisions

Energy Products Division

Stafford, TX
phone 281 566 4500
fax 281 530 5353

Fluid System Connectors Division

Otsego, MI
phone 269 694 9411
fax 269 694 4614

Hose Products Division

Wickliffe, OH
phone 440 943 5700
fax 440 943 3129

Industrial Hose Division

Strongsville, OH
phone 440 268 2120
fax 440 268 2230

Parflex Division

Ravenna, OH
phone 330 296 2871
fax 330 296 8433

Quick Coupling Division

Minneapolis, MN
phone 763 544 7781
fax 763 544 3418

Tube Fittings Division

Columbus, OH
phone 614 279 7070
fax 614 279 7685

Distribution Service Centers

Buena Park, CA

phone 714 522 8840
fax 714 994 1183

Conyers, GA

phone 770 929 0330
fax 770 929 0230

Louisville, KY

phone 502 937 1322
fax 502 937 4180

Portland, OR

phone 503 283 1020
fax 503 283 2201

Toledo, OH

phone 419 878 7000
fax 419 878 7001
fax 419 878 7420
(FCG Kit Operations)

Canada

Grimsby, ONT

phone 905 945 2274
fax 905 945 3945
(Contact Grimsby for other Service Center locations.)

