



# ALTERNATIVE FUEL: CNG, LNG & LPG VEHICLE AND FUELING SYSTEM SOLUTIONS

Helping create a sustainable future



# INNOVATIVE SOLUTIONS FOR COMPRESSED AND LIQUEFIED NATURAL GAS

At Parker, we understand that transitioning to alternative fuels can be complex. That's why we're here to support you every step of the way. As a leader in the design and manufacture of systems and components for compressed natural gas (CNG), liquefied natural gas (LNG), and liquefied petroleum gas (LPG), we offer innovative systems and components tailored specifically to these applications.

Our advanced technologies in fluid management, filtration, and control are engineered to optimize the performance of CNG, LNG, and LPG. This means you can expect faster development cycles and longer service life for your systems.

You get access to dedicated teams specializing in the fuel market, providing integrated components that work seamlessly together. This not only simplifies maintenance but also minimizes unexpected downtime, allowing you to focus on what matters most.

With Parker, you can count on exceptional quality and support, ensuring that your transition to alternative fuels is not just smooth but also successful. Let us help you drive efficiency and sustainability in your operations.



## Parker Value

Parker offers an unmatched complete CNG, LNG, and LPG product package, including fittings, filters, couplings, valves, hoses, nozzles, and receptacles. Our customers benefit from several value-added advantages:

**Extensive Experience:** Years of expertise in design, prototyping, and manufacturing shorten the design cycle, enhancing production efficiency and simplifying procurement.

**Collaborative Approach:** Early collaboration from concept through production creates a competitive advantage.

**Global Availability:** Our worldwide footprint ensures local availability, no matter where you develop, assemble, or manufacture.

**Regulatory Compliance:** Our products meet national and international certification standards.

**Multiple Technology Provider:** As a single-source provider, Parker saves you time and money by reducing the need for multiple suppliers.



## Customized Solutions

Parker possesses a unique ability to integrate multiple technologies into robust, customer-focused solutions tailored for CNG, LNG, and LPG applications. Our expertise allows us to create comprehensive systems that enhance efficiency and performance while addressing the specific needs of our customers.

For instance, our On-Board Fuel Regulation Module exemplifies our commitment to innovation and functionality. This advanced module ensures precise fuel delivery and regulation for optimal engine performance, contributing to reduced emissions and improved fuel efficiency. Additionally, our manifold systems utilize a variety of Parker products, seamlessly integrating components such as valves, fittings, and hoses to create a cohesive solution that meets the rigorous demands of fuel management.



Whether you are working with compressed natural gas (CNG), liquefied natural gas (LNG), or liquefied petroleum gas (LPG), Parker's customized solutions are designed to provide reliability and safety in diverse applications. Our products are engineered to withstand the unique challenges associated with each fuel type, ensuring that your systems operate smoothly and efficiently.



By leveraging our extensive experience and advanced technology, Parker is dedicated to delivering solutions that not only meet but exceed industry standards. Our focus on collaboration with customers throughout the design and implementation process ensures that



we develop the best possible solutions for your specific applications. Trust Parker to provide the integrated solutions you need for your CNG, LNG, and LPG systems.



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# CNG: ON VEHICLE

## Collaborate with Parker for CNG solutions that fuel competitive advantage.

From the refueling receptacle to the engine compartment, Parker provides CNG components that significantly enhance performance for on-vehicle applications, along with the expertise to integrate them seamlessly. Our global experience in designing fuel systems for medium and heavy-duty vehicles is highly regarded in the industry, and customers benefit from local access to Parker channels worldwide.

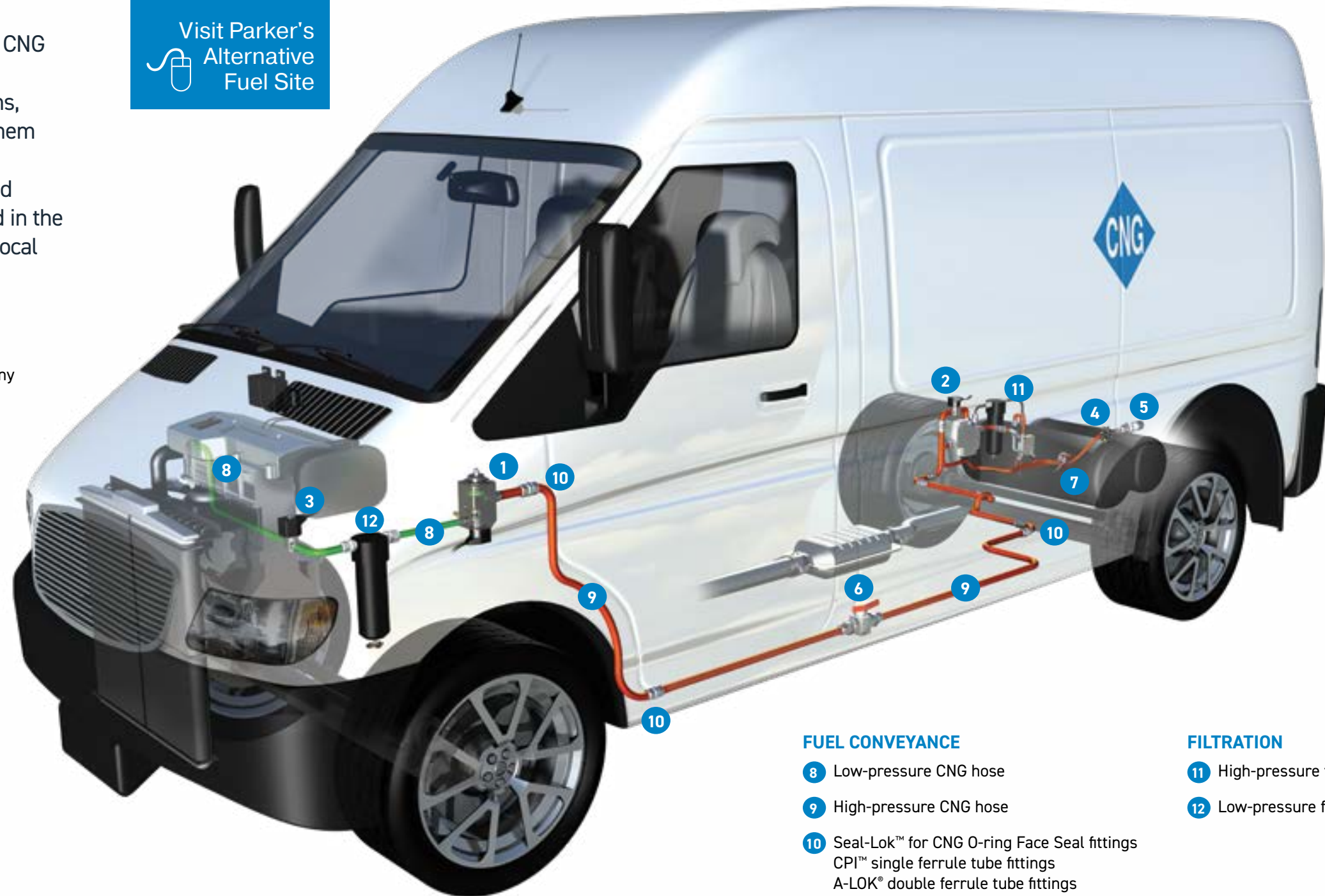


### REGULATION

- 1 The On Board Fuel Regulation Module (FM80) features a machined body gas regulator with any or all of the following options:
  - Integrated high pressure filter
  - High and low pressure sensors
  - Lock-off solenoid valve
  - Heat exchanger
  - Pressure relief device

### VALVES AND RECEPTACLES

- 2 High-pressure CNG valves
- 3 Low-pressure CNG valves
- 4 Check valves
- 5 Receptacles
- 6 HB4 Series ball valves
- 7 B Series ball valves



### FUEL CONVEYANCE

- 8 Low-pressure CNG hose
- 9 High-pressure CNG hose
- 10 Seal-Lok™ for CNG O-ring Face Seal fittings  
CPI™ single ferrule tube fittings  
A-LOK® double ferrule tube fittings

### FILTRATION

- 11 High-pressure filters
- 12 Low-pressure filters

### CNG COMPLIANCE

Parker provides the largest offering of natural gas products that are certified to industry standards and organization approvals.

- CSA
- UL
- ISO
- ECE
- NFPA
- NGV1
- NGV3.1
- NGV4.2
- NGV4.4
- ANSI

# CNG: ON VEHICLE

## REGULATOR

### On Board Fuel Regulation Module (FM80)

Available with multiple options, Parker's integrated gas regulator system provides advanced fuel handling performance. Piston regulator design delivers better control, fewer connections, and longer range.



- Optimized for 5 to 12 liter engines
- Stable, precise pressure control of CNG from 225 psi (15 bar) through 3,600 psi (248 bar) inlet pressure
- Tested and designed for extreme environmental operating conditions
- Extreme -40 F (-40 C) and +248 F (+120 C) ambient temperature
- Superior flow pressure-characteristics compared to other products available in the market with a 20 psi (1.4 bar) delivery pressure envelope
- Maintains stable pressures and high flow to the downstream components across the full operating range of CNG vehicles tank pressures of 3600 psig to 225 psig (250 bar to 15 bar)
- Integrated high pressure filter, high and low pressure sensors, lock-off solenoid available as options
- Made of durable anodized aluminum and incorporates a piston-style single-stage regulator with an integrated heat exchanger and pressure relief valve
- Additional functional elements include a solenoid shut-off valve (on/off), a coalescing filter (available in various grades and sizes), and pressure sensors for both high and low pressure sides of the regulator
- The FM80 is fully configurable. Request a FM80 Technical Bulletin (PN 25000314) from Veriflo Division for more information

Proven multi-technology subsystems and components.

## FUEL CONVEYANCE

### SS23CG Low-Pressure Hose



CNG compatible low-pressure, rubber-covered hose with nylon inner tube. High temperature rated to 250°F (121° C) at 425 psi (29 bar). Flexible with a small bend radius for easy routing.

- CAN / CGA-8.1-M86 Type III
- Meets UL 21 588, 569 specifications
- Meets ECE R110 / R67 specifications

### CNGRP Low Pressure Hose



Flexible, lightweight hose serves as primary conveyance of CNG downstream of pressure regulator. Rated to 248°F (120°C) at 500 psi (34.5 bar).

Conforms to and listed per: NFPA 52, ANSI/CSA NGV 3.1, CSA 12.3, Class C Certificate# 70102698

- Electrically conductive
- Dampens vibration and noise
- Low permeation construction

### 5CNG High-Pressure Hose



Flexible, lightweight hose serves as primary conveyance of CNG in all areas of the vehicle system up to the firewall. Class A assemblies rated to 150°F (65° C) and Class D assemblies rated to 185°F (85° C), both at 5,000 psi (345 bar).

Conforms to and listed per: NFPA 52, ANSI/CSA NGV 4.2\*CSA 12.52 (Class A&D); ANSI NGV 3.1\*CSA 12.3 (Class B - P36) 5CNG-8 only; ECE R110; CSA Cert.# 1053249; #70143077

- Electrically conductive
- Dampens vibration and noise
- Up to 30% lighter than rigid tubing
- Very flexible; easy to install with faster routing and simple maintenance
- Robust hose design resists fatigue, corrosion, and environmental effects

## VALVES AND RECEPTACLES

### HB4 Series Ball Valves

Provide reliable shutoff or switching functions. Upper and lower trunnion bearings enhance the resistance of the trunnions against seizure, and increase the valve life in extreme applications.



- Compact and rugged design
- Spring-loaded seats for high cycle life and low operating torques at pressures up to 10,000 psig (689 bar)
- Perfect for diverter applications such as fueling / defueling vehicles

### B Series Ball Valves



Manually, pneumatically, and electrically actuated two-way B Series ball valves provide quick, 1/4 turn, on-off control of natural gas.

- Certified by CSA for NGV applications such as bulk containers and manual shutoff on vehicle fuel systems as per NFPA 52
- Proven and used on trucks, buses, and cars around the globe

### Check Valves

Located on the fuel line between the fill receptacle and the fuel tank, Parker's check valve allow depressurization of the nozzle and receptacle, preventing return flow.

- Uni-directional flow control



## VALVES AND RECEPTACLES *(continued)*

### Fueling and De-fueling Receptacles

Parker's FMS Series fueling receptacles are available in 3,000 and 3,600 psi (200 and 250 bar) versions and are certified to the NGV1 standard.



Stainless defueling receptacles conform to ISO 7241-B profile. Both fueling and defueling receptacles have common profiles for easy connectivity with other manufacturers' compliant products.

### High-Pressure CNG Valves



Our high-pressure, high-flow, two-way normally closed valves offer higher working pressure than competitors' models and all stainless steel construction for optimum performance.

- Bubble-tight maximum allowed leakage
- ISO 15500 / ECE R110 approval in process

### Low-Pressure CNG Valves

Two-way, brass, normally closed valve line specifically designed for low-pressure CNG applications. Offers exceptionally high flow for a low-pressure valve. Located downstream of the pressure regulator.

- Bubble-tight maximum allowed leakage
- ECE R110 approved valve; 3/8" and 1/2" NPT available

## FILTRATION

### FFC-110 / 110L Filters

Positioned on the low-pressure side of the vehicle system between the pressure regulator and the fuel injectors. Protect fouling of fuel injectors. Multiple sizes, efficiency grades for application versatility.

- 800 psig (55 bar) maximum pressure is highest known



### FFC-112 / 112L / 113 Filters

Positioned on the high-pressure side of the vehicle system between the storage tank and the pressure regulator where pressures can typically reach 3,600 psig (248 bar). Protects regulator from contaminant buildup.



### FFC-213 / 3600 PSIG Filters (Aluminum)



The, FFC-213 is another popular filter for on-board alternative fuel vehicles. It removes submicronic contaminants with removal efficiencies from 95% (grade 10) to 99.97% (grade 6), ensuring long service intervals for components like fuel injectors and regulators.

- Lightweight aluminum construction
- 3600 PSIG design pressure withstands harsh operating environments

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Underlined titles are linked to more information

## FITTINGS

### CPI™ Tube Fittings

Single ferrule tube fittings of precision-engineered parts designed to provide secure, leak-proof connections on vehicle. Suparcase® ferrule design works well in vibration-prone applications due to its unique "bowing" action between the body seat.



- Proven in thousands of critical vibration and pressure applications, including CNG
- Molybdenum coated nut with fine pitch threads ensures no galling
- Single pre-swaged ferrules minimize chances of incorrect assembly

### A-LOK® Tube Fittings

Two ferrule tube fittings of precision engineered parts designed to provide secure, leak-proof connections on vehicle. Manufactured to the highest quality standards.



Proven in CNG applications around the globe. Available in a broad range of sizes, materials, and configurations.

### Seal-Lok™ for CNG O-ring Face Seal (ORFS) Fittings

Leak-free, vibration-resistant ORFS threaded connections available in inch (1/4" to 3/4") and metric (6 mm to 20 mm) sizes for high- or low-pressure CNG applications using hard tube or hose. Seal-Lok for CNG provides a zero clearance fitting system which allows for ease of assembly in tight installation areas.



- Resistant to over-torque up to 200%
- Unlimited reusability with only seal replacement needed
- Tested by TUV and conforms to the following standards: ECE R110, ANSI NGV 3.1-2014/CSA 12.3-2014, and ISO 15500 in the following materials: stainless steel, and XTR (zinc nickel) plated steel
- Seal-Lok Xtreme™ available for LNG applications

# CNG: FUELING STATIONS

Our complete line of CNG filtration, conveyance, dispensing, and valve solutions connect you to added efficiency and faster fill times. Have a unique application or the need to push the envelope of innovation? We can support that, too, with a team of CNG experts that will help to engineer your success.

## FILTRATION

- 1 M/J Series filters

## VALVES

- 2 Valves and Manifolds

## VALVES AND RECEPTACLES

- 3 CNG hose
- 4 Seal-Lok™ for CNG O-ring Face Seal fittings
- 5 CPI™ tube fittings
- 6 A-LOK® tube fittings
- 7 Fuel/Vent line breakaways
- 8 Nozzles / nozzle docks
- 9 Multitube™ Tubing Bundles



## VALVES

### HB4 Series Ball Valves



HB4 valves provide reliable shutoff and switching functions, featuring upper and lower trunnion bearings that enhance resistance to seizure and extend valve life.

- Compact and rugged design
- Low operating torques at pressures up to 10,000 psig (689 bar)
- Ideal for safe and economical dispensing applications when paired with Parker's Snap-tite NGV1 nozzles

### B Series Ball Valves



Manually, pneumatically, and electrically actuated two-way B Series ball valves provide quick, 1/4 turn, on-off control of natural gas.

- Broad selection of valve body, seat, and seal materials provide a wide range of operating pressures and temperatures
- Perfect for bulk and high flow / high cycle applications with up to 100,000 cycles of trouble-free performance without any seat changes

### Valves and Manifolds



High integrity, precision instrumentation check, bleed/purge, needle, and pressure relief valves and manifolds for all isolation, regulation, direction control, and over-pressure protection applications.

## FILTRATION

### M-Series Filters

Available in a variety of filter sizes and media, these 800 psig (55 bar) filters have multiple applications in a CNG system. Use them as contaminant protection in pre- and post-filters for a gas dryer, a compressor intake filter, and inner-stage compression filters. Excessive lubrication oil can create contamination problems in a compressor, especially at the higher pressures involved in the later stages of a multi-stage compressor.

- 800 psig (55 bar) maximum pressure ensures reliability
- Excellent corrosion resistance
- Easy drainage without bowl removal
- Multiple sizes and media choices



### J-Series Filters

5,000 psig (345 bar) filters remove solid and liquid contaminants from natural gas. Available in a variety of filter sizes and media, these versatile filters can be used as a compressor post-filter to storage cascades and fuel dispensing equipment.

- More filter choices than any other competitor
- Easy drainage without bowl removal
- Optional high-pressure drain kits allow drainage while system is pressurized



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# CNG: FUELING STATIONS

## FUEL CONVEYANCE AND DISPENSING

### Vent Line Breakaway



Placed on the fuel return line, our NGVBCN2-VL breakaway ensures the venting of the CNG hose in the event of a "drive off."

- Reliable performance

### Nozzle and Nozzle Dock

NGV1 standard refueling nozzles for public or private use. Can be classified as Type 2 or 3, for use in both fast-fill or time-fill service. Non-marring polyurethane sleeve protects vehicle body from surface damage.

Situated on the fueling station, our NGVND nozzle dock holds the nozzle when not in use, keeping it clean and readily accessible.



### Fuel Line Breakaway

The NGVBCN2-P50 breakaway is certified to NGV4.4 standard for breakaway devices used on natural gas dispensing hoses and systems. It allows the hose to safely disconnect, preventing damage to the dispenser in the event of "drive off," sealing the CNG in the line to prevent leakage and hose whip.

- Pressure balanced
- Reliable performance



### Seal-Lok™ for CNG O-ring Face Seal (ORFS) Fittings



Leak-free, vibration-resistant ORFS threaded connections available in inch (1/4" to 3/4") and metric (6 mm to 20 mm) sizes for high- or low-pressure CNG applications using hard tube or hose. Seal-Lok for CNG provides a zero clearance fitting system which allows for ease of assembly in tight installation areas.

- Resistant to over-torque up to 200%
- Unlimited reusability with only seal replacement needed
- Tested by TUV and conforms to the following standards: ECE R110, ANSI NGV 3.1-2014/CSA 12.3-2014, and ISO 15500 in the following materials: stainless steel, and XTR (zinc nickel) plated steel
- Seal-Lok Xtreme available for LNG applications

### CPI™ Tube Fittings

Single ferrule tube fittings of precision-engineered parts designed to provide secure, leak-proof connections on vehicle. Suparcase® ferrule design works well in vibration-prone applications due to its unique "bowing" action between the body seat.

- Proven in thousands of critical vibration and pressure applications, including CNG
- Molybdenum coated nut with fine pitch threads ensures no galling
- Single pre-swaged ferrules minimize chances of incorrect assembly



### A-LOK® Tube Fittings



Two ferrule tube fittings of precision-engineered parts designed to provide secure, leak-proof connections on vehicle. Manufactured to the highest quality standards.

- Proven in CNG applications around the globe
- Available in a broad range of sizes, materials, and configurations

Added efficiency.  
Faster fill times.

### 5CNG High-Pressure CNG Hose



Flexible, lightweight hose serves as primary conveyance of CNG in all areas of the dispensing system. Class A assemblies rated to 150°F (65° C) and Class D assemblies rated to 185°F (85° C), both at 5,000 psi (345 bar).

Conforms to and listed per: NFPA 52, ANSI/CSA NGV 4.2\*CSA 12.52 (Class A&D); ANSI NGV 3.1\*CSA 12.3 (Class B - P36) 5CNG-8 only; ECE R110; CSA Cert.# 1053249; #70143077

- Electrically conductive
- Twin-line assemblies available to reduce installation time, eliminate tangling & reduce part number complexity
- Sizes up to 1"
- Very flexible; easy to install with faster routing and simple maintenance
- Robust hose design resists fatigue, corrosion, and environmental effect

### Multitube™ Stainless Steel Tubing Bundles



For use in conveyance of the CNG compressed gas from the Low, Medium and High Cascade Reservoirs, underground to the dispensing station. The stainless steel tubes are designed to ASTM A213/269 standards and are available in long continuous lengths, reducing potential leak paths found in traditional stick-length piping with unions & offering quicker more efficient installation.

- Sizes - Heavy wall 1/2, 3/4 and 1 inch O.D.
- Supplied on wooden spools with an extruded outer protective jacket over the tubes, eliminating the need for field installed mechanical sleeves
- Individual tubes can be jacketed with a colored protective thermoplastic jacket to prevent long-term corrosion issues and allow for easy tube identification during general maintenance of the system



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# LIQUEFIED NATURAL GAS (LNG)

Choosing Parker means selecting a partner dedicated to addressing the unique challenges of your LNG applications with tailored solutions. Our components are specifically designed to handle the extreme conditions associated with LNG, including cryogenic temperatures that require specialized materials to prevent brittleness and failure. We understand the critical importance of pressure management in LNG systems, which operate under high pressure, necessitating robust components that can withstand these conditions without leaking. Additionally, our commitment to corrosion resistance ensures that our products endure the harsh effects of natural gas, providing long-term durability essential for your operations. Effective thermal insulation is also a priority, as it minimizes heat transfer and prevents LNG from vaporizing, achieved through material selection.

At Parker, we recognize that regulatory compliance and integration with existing systems are vital to your success. Our components are designed to meet various safety and regulatory standards, simplifying your design and manufacturing processes. We prioritize ease of maintenance and reliability, knowing that downtime can lead to significant costs in LNG applications. While high-quality materials and specialized designs may increase costs, we focus on careful management to ensure that safety and performance remain at the forefront of our offerings. With Parker, you gain not just components, but a partnership committed to enhancing the efficiency and reliability of your LNG equipment.

**LNG COMPLIANCE**  
ECE R110 and  
ISO 12617

## VALVES AND RECEPTACLES

### 1 Bestobell Cryogenic Globe Valve

Parker Bestobell's cryogenic globe valves feature an innovative loose flange bolted bonnet design that allows for thermal expansion and contraction, therefore eliminating leakage at the bonnet gasket. Extremely durable, these valves deliver smooth operation and reduced closing torque by use of a PTFE anti-friction disc between the valve spindle and the disc assembly.



- Maximum Working Pressure (MWP) subject to end connections; Up to 50 bar (725 psi) at -196° C to +65° C
- Unique Parker Bestobell loose flange bolted bonnet design allows for thermal expansion and contraction and eliminates leakage at the bonnet gasket
- PTFE/PCTFE seal to ensure tight shut off at all times
- Anti-blowout stem and one-piece high strength design for operator safety
- Long life, low torque stem thread
- Lightweight ergonomic aluminum hand wheel

### 2 Bestobell Cryogenic Thermal Relief Valve

Parker's Bestobell compact cryogenic thermal relief valves are designed to prevent damage to piping and equipment caused by the expansion of liquefied gases. This thermal relief valves will lift at +/- 3% of set pressure rating. When liquefied gases are trapped between two closed valves (known as liquid lock), reheating and boiling can lead to a dangerous rise in pressure. The Parker Bestobell's thermal relief valves have been designed to prevent pressure build up.



- Maximum Working Pressure (MWP) subject to end connections Up to 50 bar (725 psi) at -196° C to +65° C
- Valve will not stick in its seat even when left unused for long periods of time
- Design allows the valve to reseal correctly after venting off the expanding fluid which prevents wastage of cryogenic gases
- Valve is tight up until 90% of set pressure
- Valve reseats before 50% of set pressure
- Orifice diameter is 8 mm

### 3 Kodiak™ Fueling Receptacle



Universal receptacle design will connect with other manufacturer's nozzles.

- Valve automatically opens when connected and closes when disconnected
- Up to 300 psi (20.7 bar) max working pressure
- Rated flow: 50 gpm (190 lpm)
- Port sizes: 1" or 3/4" NPTF
- ECE R110 certified and compliant with ISO 12617
- Protective dust cap is included

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## FLUID CONVEYANCE

### 4 Metal Hose



Designed for applications where chemical and temperatures extremes are present.

- Excellent chemical resistance
- Operates in high temperatures
- Hydroformed design yields a uniform wall thickness, promoting even distribution of stress during flexing and reduces concentrated residual stress
- Full Vacuum - Maintains its shape under full vacuum, other hose types collapse
- Zero permeation
- Leak-free fitting weld connection

## FITTINGS

### 5 Seal-Lok™ Xtreme Fittings

Seal-Lok Xtreme for LNG applications are field replaceable fittings that use a patented stainless-steel metal sealing ring. This Parker innovation achieves superior tube and hose connections at temperatures as low as -328° F (-200° C) and as high as 1200° F (650° C).



- SAE/AISI 316/316L stainless-steel materials for corrosion resistance
- Working pressures up to 6000 psi
- High resistance to over-tightening or over-loosening due to vibration
- Incorporates extreme temperature seals into O-ring face seal body design

## NOZZLES

### 6 Kodiak™ Fueling Nozzle

Designed for fueling LNG vehicles, the Kodiak Nozzle offers an easy, single action connection with Parker's Kodiak Receptacle. Engineered for use with cryogenic fluids, the nozzle design provides a thermal break to reduce freezing of the locking mechanism.



- Single connect/disconnect action for quick and easy fueling
- Integral shut-off valve and hose swivel
- Valve automatically opens when connected and closes when disconnected
- Up to 300 psi (20.7 bar) max working pressure
- Rated flow: 50 gpm (190 lpm)
- Port sizes: 1" NPTF or 1" 37° male flare with adapter fitting

# LIQUEFIED PETROLEUM GAS (LPG)

We recognize the importance of reliable performance in LPG applications, where safety is non-negotiable. Our innovative solutions enhance your manufacturing or maintenance processes, ensuring greater efficiency and reliability. We address the unique challenges posed by LPG, such as the need for pressure management, corrosion resistance, and temperature variability. Our components are designed to withstand high pressures without leaking. This commitment to durability means you can trust our products to perform consistently across a wide range of environmental conditions.

We prioritize safety compliance and compatibility with existing systems, recognizing that adherence to varying regional regulations can complicate your design and processes. We also understand the importance of reliability, as downtime can lead to significant costs. By utilizing high-quality materials and specialized designs, we help you strike the right balance between safety and performance, ensuring that your LPG-powered equipment operates at its best while maintaining cost-effectiveness.

## FUEL CONVEYANCE

### SS23CG Low-Pressure CNG Hose



If you make or maintain LPG/CNG powered equipment, SS23CG hose is your choice for gas permeation resistance and reliable performance.

- Exceeds Canadian Gas Association specification CAN/CGA-8.1-M86 Type III which means it meets permeation requirements of 1,6 g/m<sup>2</sup>-day

### SS25UL Liquefied Petroleum Gas Hose



Parker's SS25UL hose is a liquefied petroleum gas hose that has a constant working pressure of 350 PSI to deliver consistency and reliability.

- Constant working pressure of 350 psi to deliver consistency and reliability
- Designed, built, and tested to meet UL Standard 21 performance specifications
- Sizes range from 3/16" to 5/8" in diameter

### 8LPG Propane and Natural Gas Hose



Parker 8LPG Hoses offer reliability, versatility and a high degree of customization and are ideal for production environments. Approved acc. to ECE R67 class 1, CSA and CNG ECR R110.

- Cost efficient due to long service life
- Flexibility and small bend radius makes mounting and installations easier and quicker
- Available in long lengths which reduces fitting components, weight and possible leak points
- Preformed hoses available for mounting in long chassis like buses and trucks

## FILTERS

### Replaceable Filter Element Housing LPGR-200



Used on-board propane-powered vehicles including: shuttle buses, delivery trucks, and vans as well as lift trucks and turf maintenance vehicles.

- Unique housing designed to prevent contaminants that have settled in liquid propane tanks and fuel lines from reaching critical engine components
- Contains a high efficient pleated element, offered in either a 1-micron or 5-micron rating, constructed to lengthen filter life
- Pleated media is backed on both sides by a rugged epoxy coated steel screen for high strength during peak flow rate conditions
- Black anodized lightweight aluminum housing is designed for long term corrosion protection
- SAE-8 port connections allow for leak-free, quick, and easy installation

## VALVES

### LPG Control Valves



Used on-board propane powered vehicles including school buses, transit vehicles, delivery trucks, and a growing number of propane autogas applications.

- Individual tank mounted supply and return valves
- Piloted piston valve designs with optional excess flow valve, check valve, and manual shutoff for enhanced performance
- On-engine fuel rail valving incorporates both supply and bleed solenoid valves
- Meets UL125 performance requirements
- LPG Control Valves are suitable for many clean transportation applications

### Bi-Fuel Gas Shut Off Valve



Designed for a broad range of gas train systems including flexible fuel arrangements for stationary generators and industrial gas engines.

- Direct pilot operated two-way normally closed solenoid valve with integral Deutsch connector
- Forged aluminum flange-mount body with multiple pressure or temperature sensor port options
- Commercial and hardcoat anodized versions with stainless steel internals available for sour gas applications
- Designed for CNG and LPG systems
- Suitable for many industrial based applications



**LPG COMPLIANCE**  
CGA-8.1-M86,  
CSA and ECE

### Typical LPG Applications:

- Alternative Fuel Vehicles
- Bi-Fuel Vehicles
- School Buses
- Shuttle Buses
- Fleet Delivery Vans
- Vocational Trucks
- Taxis

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## Parker Divisions for these CNG, LNG, and LPG products

### **CNG HOSE**

Parker Hannifin Corporation  
**Parflex Division**  
1300 N. Freedom Street  
Ravenna, OH 44266  
phone 330 296 2871  
PFD.Support@support.parker.com

### **RECEPTACLES, NOZZLES, CHECK VALVES, AND IN-LINE BREAKAWAYS**

Parker Hannifin Corporation  
**Quick Coupling Division**  
8145 Lewis Road  
Minneapolis, MN 55427  
phone 763 544 7781  
QCD.Support@Support.Parker.com

### **FILTRATION**

Parker Hannifin Corporation  
**Industrial Gas Filtration  
& Generation Division**  
4087 Walden Avenue  
Lancaster, NY 14086  
phone 800-343-4048  
GSFOorders@parker.com

### **CNG SUPPLY AND RETURN LINE HOSE**

Parker Hannifin Corporation  
**Hose Products Division**  
30240 Lakeland Blvd.  
Wickliffe, OH 44092  
phone 440 943 5700  
HPD.Support@support.parker.com

### **CNG VALVES AND PRESSURE REGULATORS**

Parker Hannifin Corporation  
**Fluid Control Division**  
95 Edgewood Avenue  
New Britain, CT 06051  
phone 800-825-8305  
ParkerFCD\_Sales@parker.com

### **CPI™/A-LOK® FITTINGS AND BALL VALVES**

Parker Hannifin Corporation  
**Instrumentation Products Division**  
1005 A Cleaner Way  
Huntsville, AL 35805  
phone 256 881 2040  
IPD.Support@support.parker.com

### **SEAL-LOK™ FOR HYDROGEN, CNG O-RING FACE SEAL AND SEAL-LOK™ XTREME FITTINGS**

Parker Hannifin Corporation  
**Tube Fittings Division**  
3885 Gateway Blvd.  
Columbus, OH 43228  
phone 614 279 7070  
TFD.Support@support.parker.com

### **8LPG HOSE**

Parker Hannifin GMBH  
**Polymer Hose Division Europe**  
An Der Tuchbleiche 4  
Lampertheim Huettenfeld  
German 68623  
phone 49 (0) 6256 81 0  
CParker@support.parker.com

### **CRYOGENIC VALVES**

Parker Hannifin Corporation  
**Instrumentation Products  
Division Europe**  
Riverside Road, Pottington  
Business Park  
Barsntaple, United Kingdom  
Phone 44 (0) 1271 313131  
IPDE.Support@support.parker.com

Parker Hannifin Corporation  
6035 Parkland Boulevard  
Cleveland, Ohio 44124  
phone 1 800 C PARKER  
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