



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



Global Transportation

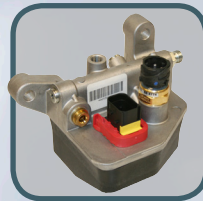
Fluid Control Solutions for Truck, Bus and Rail



ENGINEERING YOUR SUCCESS.

Fluid Control Solutions

Collaborate with Parker's fluid Control Division for on-vehicle and fuel station solutions that maximize your competitive advantage.



DIESEL EMISSIONS

- 1 - Hydrocarbon dosing
- 2 - Active thermal regeneration
- 3 - SCR coolant control
- 4 - Fuel and air control



ALTERNATIVE FUEL

- 5 - High pressure natural gas valves
- 6 - Low pressure natural gas valves



GREENHOUSE GAS / FUEL ECONOMY

- 7 - Waste heat recovery solutions



GENERAL TRANSPORTATION

- 8 - EGR
- 9 - Exhaust brake
- 10 - Filter drain
- 11 - Transmission
- 12 - Cabin heating
- 13 - Lift axle
- 14 - Door access
- 15 - Train brakes

Custom Engineered Solutions

- Precise Atomization & Fuel Delivery
- Lower Installed Cost
- Less Maintenance
- On & Off Road Applications
- Fully Integrated, Tested & Calibrated Components
- Small Packaging Envelope
- Improved Reliability

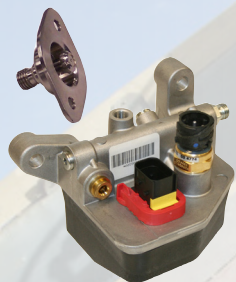


ENGINEERING YOUR SUCCESS.



Diesel Emissions

Ongoing global diesel emissions standards for particulate matter and nitrogen oxides require innovative and cost-effective fluid control solutions. Partner with Parker's Fluid Control Division in helping the world reach new levels of air quality.



1 HYDROCARBON DOSING

Parker's hydrocarbon dosing system eliminates the need for injector cooling lines while offering unmatched atomization for improved fuel evaporation. It reduces unwanted fuel coking at the nozzle by utilizing air purge sequencing. The valve control manifold can be mounted away from high-temperature and high-vibration exhaust areas to improve reliability. Fewer components and ease of assembly help optimize system cost savings.

2 ACTIVE THERMAL REGENERATION

Parker's diesel engine emission control module manages fuel, air atomization, and air purge functions. Integrated in this assembly are two solenoid valves, two pressure regulators, three pressure transducers, a fuel injector, and precision orifice. The compact design and simplified mounting provide a distinct advantage over having to connect and mount individual components on a truck chassis.



3 SCR COOLANT CONTROL

Parker's SCR coolant control valves allow proper heating control for diesel exhaust fluid (DEF) systems. It's readily available with customized valve and electrical components along with flexible mounting configurations.



4 FUEL & AIR CONTROL

Parker's broad range of fuel and air control valves provide optimum performance in both on-road and non-road vehicle applications.



Alternative Fuel

Clean-burning alternative fuels such as CNG, LNG, and LPG have become a viable solution for the transportation industry. Parker's Fluid Control Division is committed to providing innovative solutions to help accelerate the use of natural gas.



5 HIGH PRESSURE NATURAL GAS VALVES

Parker's High Pressure CNG stainless steel valve is robustly designed for exceptional, long lasting performance. The 2-way normally closed valve has a maximum operating pressure of 4500psi and maximum leakage allowance of 2cc/min. It provides suitability for both on-vehicle and alternative fuel filling stations. Voltages commonly used in the natural gas market are readily available, as this valve type comes in both 12VDC and 24VDC options.



6 LOW PRESSURE NATURAL GAS VALVES

Parker's Low Pressure CNG valve is a 2-way normally closed valve with a brass body. Users will achieve high flows with this valve and have a pressure range from 10 – 250 psi. The port sizes available are 3/8" and 1/2" NPT. This valve has ECE R110 approval which is a common requirement for on-vehicle applications. Like our High Pressure CNG valve, this valve type comes in both 12VDC and 24VDC options. Perfect for low pressure on-vehicle and fuel filling station applications.

Features & Benefits

- On-Vehicle
- Refueling Stations
- CNG / LNG / LPG
- BiFuels
- Low / High Pressure
- High Flow
- ECE R110
- Low Power
- Long Life
- Optimum Performance



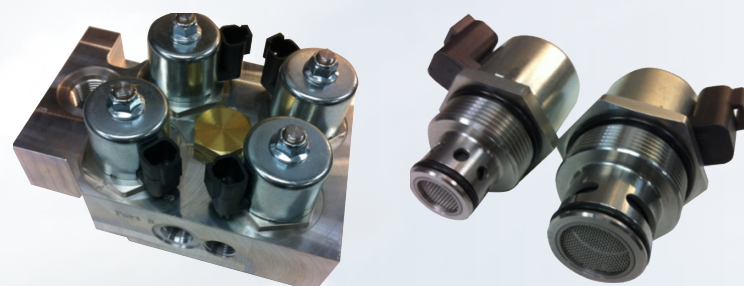


Greenhouse Gas / Fuel Economy

Reducing CO2 emissions and improving fuel efficiency have become key initiatives within the heavy-duty trucking industry. Although Class 8 trucks represent only a small percentage of on-road vehicles, they contribute heavily to greenhouse gas levels and require high levels of fuel consumption. Government sponsored programs have enabled vehicle producers to begin developing many new advanced engine technologies to help reduce GHG levels and optimize fuel economy. Parker's Fluid Control Division is helping to advance the introduction of these innovative solutions.

Features & Benefits

- Innovative
- Customer Focus
- Fast Development
- Design Validation
- Factory Tested
- Engineering Support
- Cost Effective
- Space Saving Package
- Greater Value
- Global Footprint



7 WASTE HEAT RECOVERY SOLUTIONS

As part of a Rankine-based waste heat recovery system, Parker's solenoid valves are designed to help capture waste heat from the exhaust stream of a diesel engine and convert this heat into useful power to improve engine efficiency and reduce CO2 emissions.



General Transportation

Parker's Fluid Control Division offers a broad portfolio of solenoid valves and custom engineered solutions for the transportation industry. Our comprehensive line of products support a growing number of different applications including the following...



8 EXHAUST GAS RECIRCULATION



9 EXHAUST BRAKE



10 FILTER DRAIN



11 TRANSMISSION



12 CABIN HEATING



13 LIFT AXLE



14 DOOR ACCESS



15 TRAIN BRAKES



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