



CNG Commercial and Fleet Dispensers

XF70 Fast Fill • TF25 Time Fill
Safe. Smart. Rugged. Reliable.



ENGINEERING YOUR SUCCESS.

Parker's XF70 and TF25: Setting the new standard in CNG fuel dispensing

Parker is an expert in natural gas. A leader in the design and manufacture of products and systems that filter, regulate, control, and measure compressed natural gas (CNG).



Enhanced Productivity

- High flow design allows for faster fueling, getting your fleet back on the road quickly
- Optimally sized filtration per flow rates reduces particulate, oil, and moisture carryover issues as well as related vehicle breakdowns
- Innovative engineering provides easy access to interior components for routine maintenance
- Smart controls and cloud-based connectivity bring the Internet of Things (IOT) to your fueling facility

REDUCED COST OF INSTALLATION AND OWNERSHIP

- ANSI NGV 4.1/CSA 12.5 (in process)
- Compliant system simplifies site zoning and permitting
- Well designed system with integrated hose mounts and shutoff valves minimizes on-site work
- No purging required to operate
- Differential pressure gauge to predict and plan filter changes
- High cycle ball valves offer increased uptime and reduced maintenance
- Local support and service

Engineered with Purpose

Global connectivity option for remote diagnostics and maintenance through Internet of Things capability.

The first dispenser system designed from the ground up for private fleets and transit buses.



Parker at the CNG station:

SAFE. SMART. RUGGED. RELIABLE.

The fully compliant dispenser designed for fleets delivers higher flow rates and increased durability for minimal downtime.

SAFE

- ANSI NGV 4.1/CSA 12.5 (in process)
- 4:1 safety ratio for gas path
- Safety stop function
- Overflow check and shutoff function
- Relief valves in fill and actuation lines
- Intrinsically safe low power electronics
- Hazardous area compliant
- Certified hose breakaway safety devices

RUGGED

- Reinforced frame minimizes damage from inadvertent drive-off
- Integrated frame reinforcements for hose mounting
- High resistance to rust with special surface finish
- UV and moisture protected HMI and electronics
- 316 stainless steel fittings, tubes, and ball valves
- 5,000 psig rated hoses for fill and vent

RELIABLE

- Over 500 installations worldwide in operation
- High cycle ball valves for greater uptime and higher flow throughput
- Digital communication for precision and accuracy
- Combinational coalescent and particulate filters to extend operational life
- Reduced leak paths with integrated gas flow manifold options
- Long life ceramic pressure transducers with very low drift

A SMART DISPENSER

Smart controls interface with station controls using TCP/IP Modbus. Remote diagnostics allow you to check the health of your system from anywhere in the world. Contact Parker Veriflo at **1-800-962-9590** to find out more or email us at: **ngv@parker.com**.

An integrated system with intrinsically safe components

1 HMI AND ELECTRONICS

UV-protected electronics and keypads for long service life. User-friendly HMI and precision fueling control system.

2 FITTINGS

High pressure fittings for leak-free connections and lower fugitive emissions.

3 REGULATORS

Special regulators for high reliability and perfect actuation pressure.

4 VALVES AND MANIFOLDS

Actuated ball valves and manifolds for high flows and long-lasting reliability.

5 FILTERS

5,000 psig (345 bar) filters remove solid and liquid contaminants for oil- and particle-free gas.

6 CHECK AND NEEDLE VALVES

Bleed/purge valves, check valves, and needle valves for safe operation and calibration.

7 HB AND 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.

8 HOSES

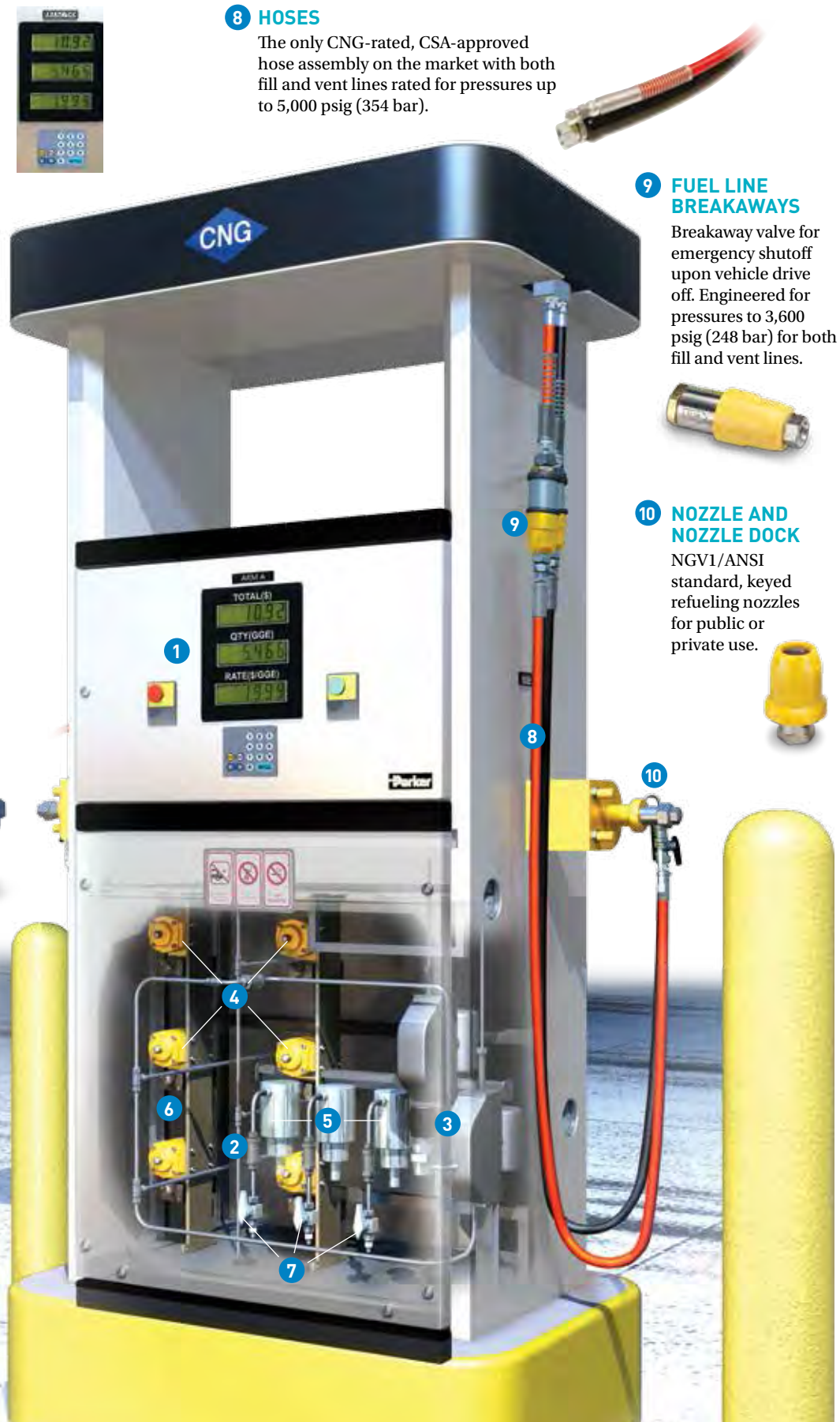
The only CNG-rated, CSA-approved hose assembly on the market with both fill and vent lines rated for pressures up to 5,000 psig (354 bar).

9 FUEL LINE BREAKAWAYS

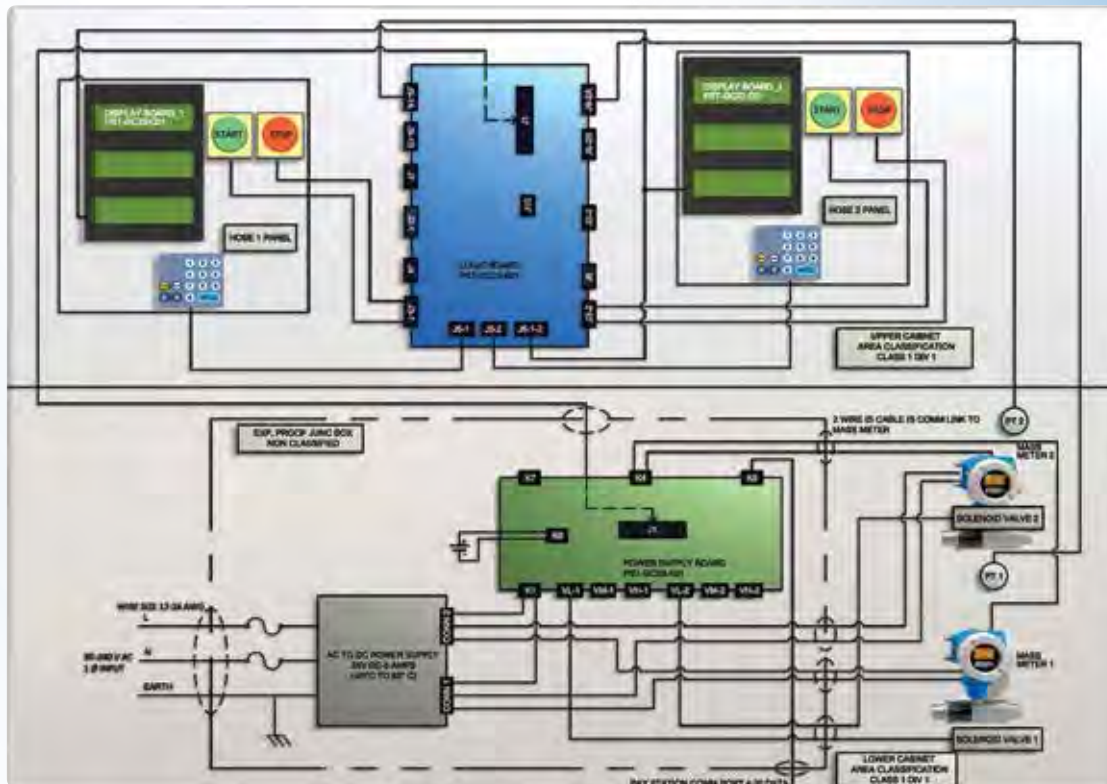
Breakaway valve for emergency shutoff upon vehicle drive off. Engineered for pressures to 3,600 psig (248 bar) for both fill and vent lines.

10 NOZZLE AND NOZZLE DOCK

NGV1/ANSI standard, keyed refueling nozzles for public or private use.



Electrical-Block Diagram



Shown as a typical configuration for two hoses and one gas inlet. Intelligent design complies with safety requirements without purging.



User-friendly HMI integrates with payment islands and fleet authorization systems for precision fueling control. UV-protected electronics and keypads provide long service life.



Configure a system that best meets your geographic location, environmental concerns, and certification requirements.



Select from the following options to customize your fuel dispensing system:

- One to three inlet lines
- Additional slave screen
- Range of nozzles and hose types for different regional and global standards
- Leak detection and tilt detection options
- Heater for colder environments
- Special high grade stainless steel available for superior corrosion resistance
- Dual inlet filtration option

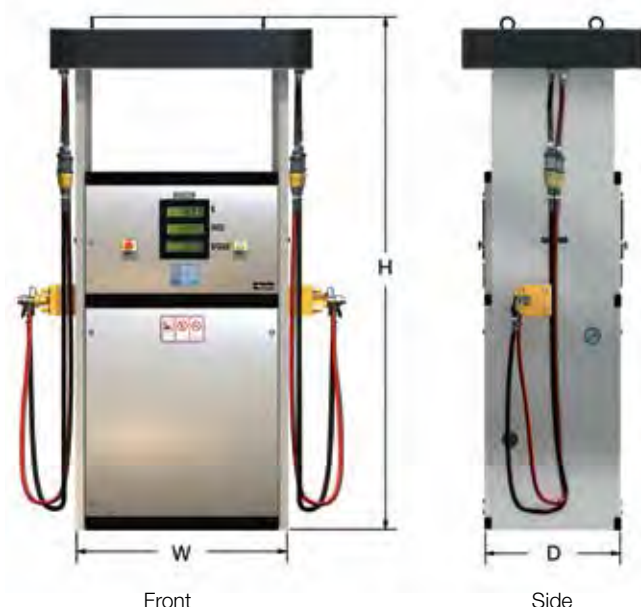
Economical time fill also available

A proven dispenser with integrated fueling system, this economical choice delivers added efficiency for minimal downtime.

- Reduced connections
- Compliant to seismic and wind loading standards
- Rugged design – components created especially for CNG applications
- Specially designed filter panels for oil and particulate filtration
- Large fill hose for high throughput
- Smart sensing option



Specifications



Base

OPTIONS AND FEATURES

OPERATING CONDITIONS

Maximum Inlet Pressure	4,250 psig (295 bar) on each inlet bank
Fill Pressure	3,600 psig (250 bar) / P36 Temperature compensated to 70°F (21°C)
Operating Temperature	-40°F to 150°F (-40°C to 65°C)

PERFORMANCE

Maximum Flow Rate	NGV 1 Nozzle: 70 lb/min (35 kg/min); Transit: 150 lb/min (70 kg/min)
Minimum Flow Rate	4 lb/min (2 kg/min)
Leakage	< 400 cc/h at 1.2x max working pressure at standard conditions per NGV 4.1

CERTIFICATIONS

NTEP	Weights and measures with NTEP certified mass meters and pay stations
CSA / NGV	In process

ELECTRICAL REQUIREMENTS

Input Voltage	90 – 240 VAC (45 – 65 Hz)
Current Requirements	1.2A (120 VAC); 0.6A (240 VAC)
Electrical Protection	Internal fuse (5A slow); Varistor based transient surge protection

DIMENSIONS

Height (H)	87 inches (2,210 mm)
Width (W)	36 inches (912 mm)
Depth (D)	30 inches (750 mm)
Weight	1,000 lbs (454 kg) (Full dispenser configuration)

Gas Supply Banks	One, two or three banks of up to 4,250 psig (293 bar) supply
Dispense Hoses (One or Two Fill Stations)	CSA certified Parker 3/8" or 1/2" (single or twin line) supply and vent hoses with certified NGV fill nozzles
Pressure Gauges	Side mounted analog dial, 6,000 psig (414 bar), UL 404 listed, liquid filled, one per side
Vehicle Fill Pressure Relief	4,500 psig (310 bar) vented via a 1" (25 mm) pipe to top mounted exhaust, ASME listed valve
Electronic Gas Dispenser Control System	Large character 1" (25 mm) height LCD display of: • Total sales • Unit prices • Total units
Interface/Connections	CNGV2 Nozzle for vehicle fill – NGV1-P36, transit. One LCD display and keypad per hose. 1/2" or 3/4" pipe inlets for gas supply connections. Low power digital (4 – 20 mA) connections to external payment systems. Supports Gilbarco current loop interface for payment/fleet systems such as OPW FIT500™ and FuelMaster® 2500.
Mass Flow Meters	Coriolis (Endress+Hauser CNGmass or Emerson CNG050)
Gas Flow	Air or gas actuated ball valves (air recommended)
Filtration	Grade 10 coalescent or Grade 7 coalescent and particulate options

SAFETY

Pressure Relief Valve	4,500 psig (310 bar) vented via 1" (25 mm) pipe ASME listed valve
Gas Detection System	Optional (by request only)
Overflow Protection	3 second full flow shutoff
Drive Away Protection	Breakaways on each hose; Reinforced frame
Isolation Valves	Parker 2 way B Series
Push Button Operations	One per hose to prevent unintended operations (start and stop)
Over-Pressure Relief Vent Line	1" (25 mm) One per dispenser, ASME listed
Automatic Valve Close Conditions	Upon power loss all valves close
CNG Gas Capture on Fill Vent	Enables recovery or safe disposal
CNG Gas Capture from Ball Valve Actuators	Enables recovery or safe disposal
Installation Lifting Hooks	Safe movement and installation of dispenser

For detailed specifications, download or request a product technical information bulletin.

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Parker Hannifin Corporation
Veriflo Division
250 Canal Blvd.
Richmond, CA 94804
phone 510 412 1100
fax 510 412 1263
email ngv@parker.com
solutions.parker.com/alternativefuels

