

ComTech Metered Fill Post System for RNG/CNG

An intelligent post control system providing accurate metering from each vehicle hose.

We have overcome the primary challenge of cost and complexity of a metered fill post solution by streamlining the necessary infrastructure and metering process using the power of the advanced **MICON NEXTGEN 1.0®** controller.

The **Metered Fill Post System** (MFPS) consists of a **MICON NEXTGEN Control Panel** and a **Bank Control Panel**. Each Bank Control panel includes a Coriolis Mass Flow Meter used to accurately meter gas delivered through a maximum of 35 hoses. Multiple MICON NEXTGEN Control and Bank Control Panels may be installed to accommodate any station size and provide redundancy. The MICON NEXTGEN Control Panel features a card reader for fleet tracking, a keypad for station management and user access, a three line display showing current hose fill data, and the proprietary **PULSE™** display providing critical station information.

System capabilities include priority filling control, top-up routine, connection to fuel management systems, and the ability to manage separate fleets utilizing extra capacity at your stations. Enhanced fleet tracking and reporting enables these transactions to be kept separate from the internal account.

Existing time fill stations can be upgraded to the ComTech Metered RNG/CNG Fill Post System by retrofitting existing posts with a Fill Post Retrofit Kit and integrating the ComTech Control Panels to the site. This upgrade reuses existing compression, storage, and filling infrastructure making the total upgrade cost effective and easy to install.



Features:

- Each hose individually controlled by solenoid or actuated ball valves on the fill post
- Custom fill cycles to accommodate multiple filling strategies
- Ability to assign hoses for priority filling which adds a fast fill element to a time fill station
- Fleet tracking capabilities with easy setup and individual user and vehicle monitoring via remote console
- Ability to program vehicle tank size which is used to thermodynamically calculate target pressure—this means more accurate fills giving you a better reading of filling performance and range

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FEATURES:

- Electrically conductive main and vent line hoses, up to 20-feet long
- Multiple nozzle options available
- Includes precision needle vent valve for convenient vent down
- Inlet line isolation shut off via stainless steel ball valve
- Liquid filled pressure gauge
- Optional on-post safety relief valve

SAFETY:

- All hose assemblies include main and vent line breakaways
- Hoses CSA Certified
- Canadian CRN on piping system available

SPECIFICATIONS:

- Flexible design allows 1 to 4 hoses on the same post, each with retractor
- NGV Type 1 or 2 nozzles available, with integral nozzle holsters
- Mix and match standard duty hose alongside larger high flow hose
- Optional on-post filtration with block and bleed drain system
- All process lines are 316 stainless tube with double ferrule stainless compression fittings
- Floor (pedestal), concrete tube, wall or K-rail mounting options
- Piping system sized to suit desired flow rate, ranging from 3/8" to 1" diameter
- Posts configured for *time fill* or *fast fill* operation
- Working pressure up to 5,000 psig designed and manufactured to meet ASME standards for pressure bearing components
- Fill post assembly fully welded and powder coated, ancillary components are either stainless steel or aluminum

For more information, including a system layout, user manual, or overview, please contact info@comtechenergy.ca.

