

Aqueous Urea Dispensing System

For Diesel Engine Selective Catalytic Reduction Converters (SCR Technologies)

The ACI Aqueous Urea Dispensing System accurately meters and dispenses an aqueous urea solution into the urea tank on diesel powered vehicles.

Accurate, automatic batching and dispensing

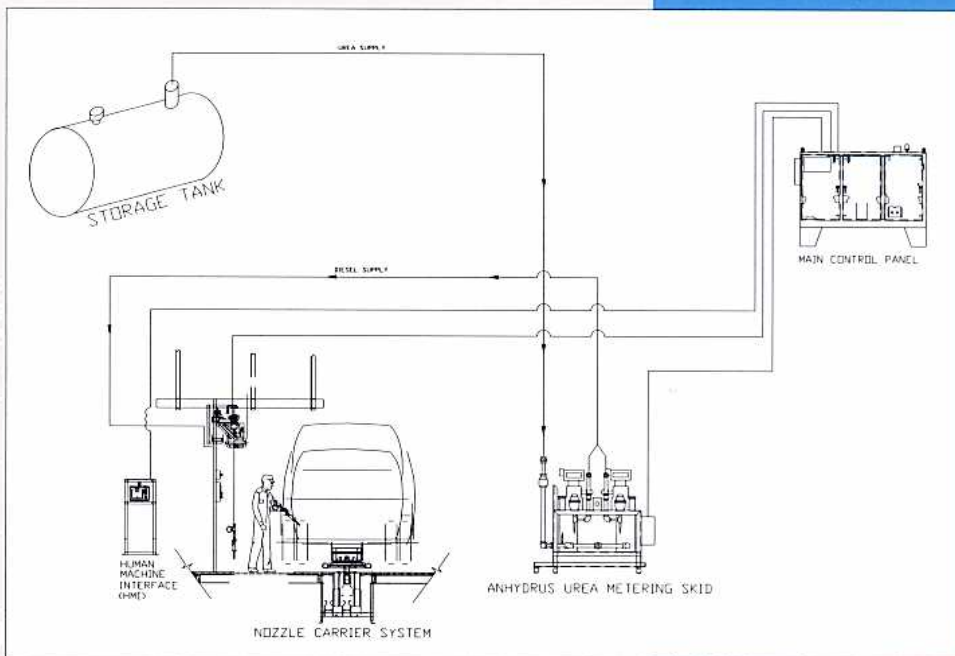
- Flow rates are PLC programmable
- Highly accurate positive displacement meter, stainless steel construction
- Magnetic pickups—non-intrusive and low maintenance—in the flowmeter send pulses to the PLC for batching
- Controlled fluid pressures
- Filtration (optional)
- Corrosion resistant stainless steel and/or polymer construction

Safe

- Will meet NFPA 70, 30, and 30A, plus NEC 1996 if located in Fuel Fill area
- ACI Fastflo nozzles are virtually drip free

Fast and flexible

- System can be tailored to dispense the urea solution in conjunction with diesel fuel
- Compact metering equipment has small footprint
- Primary and backup metering circuits, where applicable
- Dispense to vehicles traveling down the line
- Fast dispensing—accommodates any hourly vehicle rate, both cars and large trucks
- Meets or exceeds current assembly line speed fill requirements
- Accepts urea solution from various supply sources, tank farm, portable totes



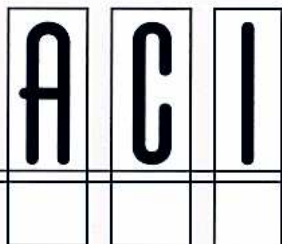
Typical components

The typical Aqueous Urea Dispensing System consists of these components

- Metering equipment with primary and backup metering circuits
- PLC and HMI (Human Machine Interface)
- Nozzle dispensing carriers to meet a variety of line speeds
- Manual and semi-automatic systems are available

PLC and operator controls

- Housed in an electrical enclosure in a non-explosion proof area
- Controls the batching cycles
- Can communicate with other Plant systems via remote I/O



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