

Fluid Transfer Systems



Economy Controls

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Portable Dispensing Carts



A Computerized Portable 2 Wheel Dispensing Cart measures the amount of liquid dispensed within 1 part in 5000. The Liquid is transferred through a Stainless Steel Pump that is mounted on the cart frame. A small On Board Computer measures the quantity from a built in scale, and prints a two part delivery ticket in Gallons and Pounds. The delivery ticket also prints the cart Serial Number, Consecutive Ticket Numbers, and the Container Identification Number with Date and Time, for complete Data Management.

The Operator uses a Hand Held Remote to Dispense and Print Tickets.

One piece Dry Disconnect Couplers provide both Liquid Flow and Vapor Recovery, which insures no leaks or fumes when Dispensing Chemicals.



Non Computerized Dispensing Carts are available in a variety of models and features

Shown at left, a Non Computerized System with Vapor Recovery Nozzle, and High Capacity Pump



A simple Dispensing Cart with an on board air compressor and Nozzle Dispenses Food Products.

The container is pressurized using a One Piece Disconnect Coupler, providing both air in and liquid out.

Portable Dispensing Carts

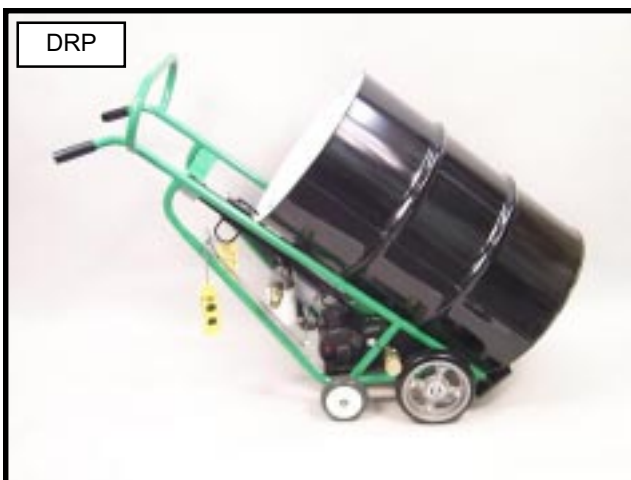


A Portable 2 Wheel Dispensing Cart Dispenses Solvent into factory machines.

Dry Disconnect Couplers allow the Operator to quickly and easily Connect and Disconnect the system for transport.

An Air Operated Diaphragm Pump moves a high purity solvent through a Filter Drier and Moisture Indicator.

Solvent is pumped in or out of the machine by simply reversing the Dry Disconnect Couplers.



All Liquid Components are built into a backplate assembly, and the entire Pumping System is easily removed from the cart for stationary use.

Shown at left, 55 Gallon Drum Carts are available with Vapor Recovery Fittings, Dry Disconnect Couplers, and Removable Pumping Packages

Basic Transfer Systems



Pump with Carrying Handle, Down Tube & Hoses, Transfers Liquids from 55 Gallon Drums.



A Portable Liquid Transfer Package complete with Pump, Motor, Strainer, Hoses, Nozzle, and Hand Held Remote Switch is available in 12 Volt or 120 Volt Models.



Dispensing or Mixing Liquids is easy with this Manually Operated Volumetric Dispenser, pictured at left. Tanks are available in a variety of sizes, and standard and custom ranges are available on the Site Glass.



An Air Powered Dispenser with On Board Pressure Regulator uses plant air to Dispense Liquid from Dispensing Nozzle.

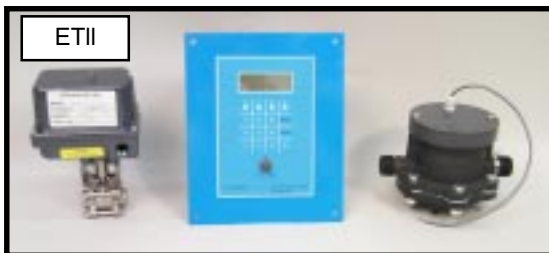


A Manually Operated Chemical Transfer System with Stainless Steel Pump, Dry Disconnect Couplers, Remote Operating Switch, and 1/4 Horsepower Motor. The package is made to mount on customer equipment.

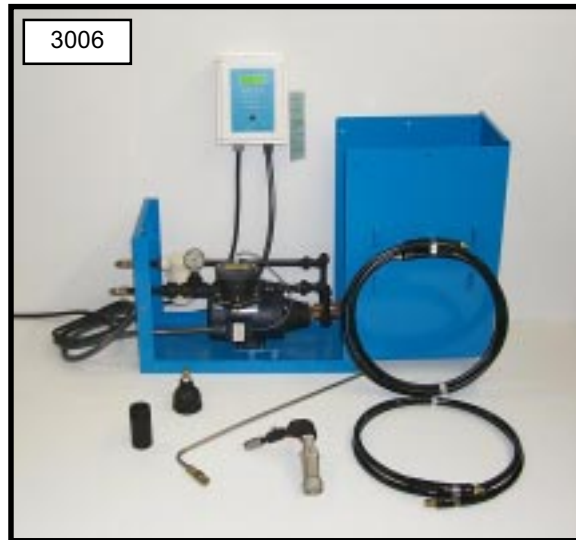
Batching & Blending



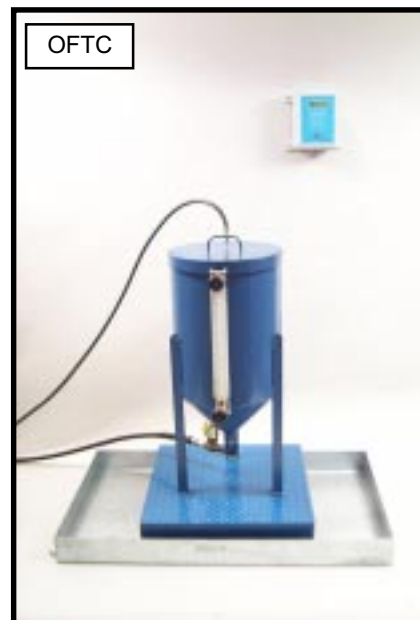
Dispensing from 55 gallon drums to .02% accuracy is made possible with this scale and Computer combination. Available with standard Connect Kits or Vapor Recovery Couplers. Easily integrated into Process Controls Systems with remote operating features. Ideal for Dispensing small quantities or hard to measure concentrates.



Flow Rate Control for In-Line Blending is precise in many process applications using this package. A Flowmeter transmits a digital signal to the Computer, which Servo's an Electric Control Valve. The Computer Displays all Flow Rates and Totals, and can be remotely started from a Master Controller.



Batching into Pressure Vessels safely and accurately, these high pressure Flowmeter Dispensing Systems are a complete Ready To Use Package

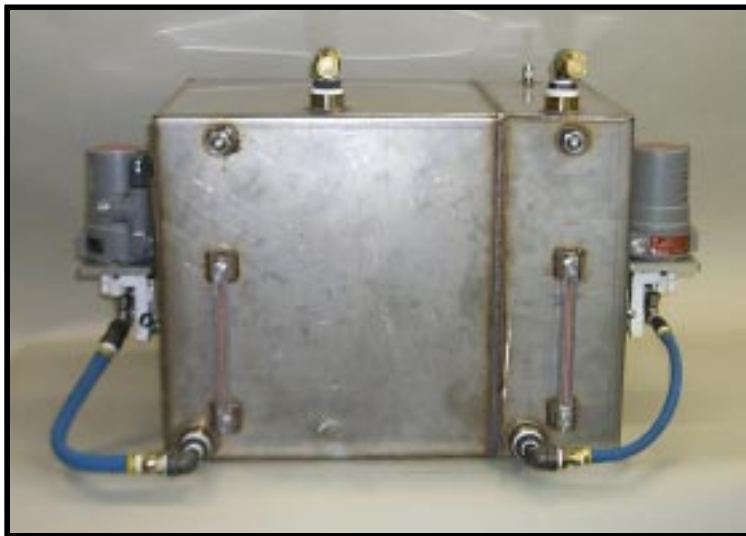


Dispensing or Mixing of small quantities from large supply tanks is highly accurate with this Computerized package. The liquids are weighed into the tank by a scale, and moved to process via pumps or air pressure.

Injection Systems



When the delivery is complete a printout (or RS232 upload) completes the transfer, with your logo or favorite slogan.



There is no more pouring or guess work in Blending Fuel Additives with this all electric Computerized Control System. The Econotrol™ Computer works with the Bulk Flowmeter that is already installed. By installing a pulser on the Flowmeter, the Econotrol measures the Bulk Delivery, and 100% of the additive ratio is blended automatically. The Computer Screen displays Bulk and Additive Flow Rates and Totals. When the Bulk Flow Rate slows down, so does the additive.

Stainless Steel Compartmental Tanks are available with all Fluid and Electrical Connections done for you, so it is a Drop & Go, Ready To Use System, that get's you going fast.



The Injector Pump requires the space of a shoe box and draws only 5 amps. @12 Volts DC.

Both the the Injector and Computer are light-weight and compact, which gives you many installation options to suit your Delivery Trucks.

Injection Systems



Measurement Systems are made for Petroleum, Industrial, and Agrichemical Industries for Truck or In Plant use.

Pictured at right, Econotrol Computers Ratio to signals from Mainline Flowmeters.



High Pressure Piston Injectors are made for Chemical Additives.

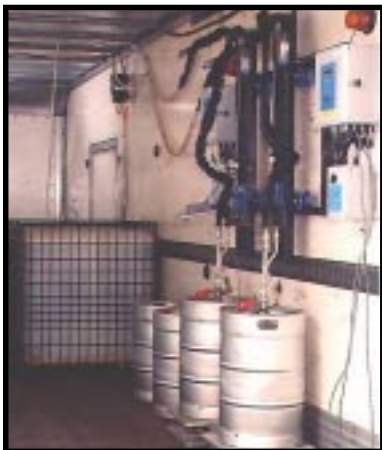


Large Capacity Diaphragm Injectors are made with Computer Controls and Printers for Indoor, Outdoor, or Hazardous Area service.

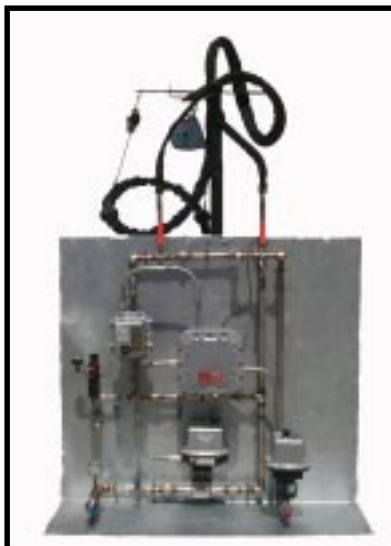
Keg and Drum Filling Systems



Container Filling Systems with Vapor Recovery and Dry Disconnect Couplers assures no spills or fumes. Computerized Data Management prints out Date, Time, Container I. D., and Fill Quantity in Gallons and Pounds. Every system is available with a Pressure Test feature, which will pressure test the container, and print out Beginning Pressure, Ending Pressure, Differential Pressure, and Pass or Fail results.



Pictured above, a 12 Volt DC Filling System Installed in a Delivery Truck



Pictured above, a High Capacity Explosion Proof Filler



Pictured above, a NEMA 4X Filler for Outdoor use.

Vapor Recovery Fittings



Vapor Recovery Filling and Dispensing Couplers, Nozzles, Container Extractor Valves, Dry Disconnects and Connection parts are always available from Economy Controls, including...



UN1A Stainless Steel Containers are always in house and available in many sizes



Drum Valve Filling or Dispensing Couplers for Drip Free Close Coupled Vapor Recovery



Filling Couplers are available with Dry Disconnect Couplers to change from Nozzles to Filling or Dispensing Valves.

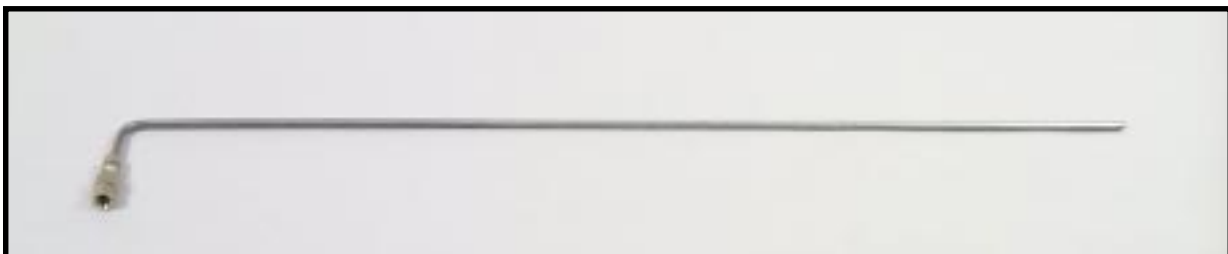


Stainless Steel Dip Tube Kit with Vapor Recovery for 55 Gallon Drums

Valves and Fittings



Economy Controls maintains a complete Inventory of Manual and Electric Valves, Pressure & Temperature Gauges, Filters & Strainers, Hoses, Pipe Fittings, and Couplers, in all material choices. Hoses, Fittings and Pipework are assembled with in house machines and shipped fast when you need them.



Stainless Steel Dip Tube Kits are available for all Drum and Container sizes

System Components

Components for Fluid Handling are always in Inventory at Economy Controls, including...



Positive Displacement Flowmeters & Air Eliminators for Weights & Measures Applications



Turbine, Magnetic, Strain Gauge & Transit Time Flowmeters for Industrial Applications



Pump Designs, Materials, & Seals for All Fluids and Flow Rates



Level Gauges, Transmitters, Transducers, Valves, Thermometers, Sensors, & Controls

Computers and Automation



Automation Systems, Custom Networks, & Programs for Bulk Plants insure that we complete our customer's needs, both now and into the future.



Stainless Steel Enclosures are Available for Corrosive or Wash Down Locations



Solid State Optical Relays and all Circuitry insure trouble free service

All electrical components Plug-In, for easy service. Every Computer made by Economy Controls has Print or RS232 Upload Capability, and Real Time Clocks with Battery Backup

Transmitters and Sensors



Sensors and Transmitter Kits are made by Economy Controls for Systems and OEM use.

Facility



Our facility on 1+ Acre in St. Louis County is centrally located for National Distribution



Production Areas are designed for Quality and Efficiency.

Product and Services Guide

Liquid Dispensing Products

Canister Volumetric Types
Air Compressor Dispensers
Pump Dispensers
Chemical Injection Systems
Flowmeter & Scale Dispensers
Enclosure, Skid, or Portable Wheeled Carts

Container Filling Products

Container Fillings Systems with Pressure Test
& Documentation
12VDC Truck Dispensers & Fillers

Electronics

Econotrol™ Flow Computers
Microcontroller System Design
& Manufacturing
Microprocessor Programming
Liquid Level Telemetry
Ticket Printers
Hall Effect & Proximity Sensors
& Transmitters for OEMs
Control Panels & Wiring
Batching & Blending Controls
Pump Monitoring & Speed Controls

Repair & Calibration

State Certified Meter & Scale Calibration
Meter & Pump Repair
Pressure Testing Facilities

Services

Pipe Cutting, Beveling, & Threading
Process Pipe Assemblies, Iron, Steel
& Continuously Welded Stainless Steel
Hose Supplies, Swivels, & Couplers
NIST, NCWM (Weights & Measures)
Consultants
System Packaging
Drawings & Documentation Services

Mechanical

Micro-Matic Valves & Couplers
Parker & OPW Dry Disconnects
Closed Loop (Vapor Recovery) Components
Containers
Hose Swivels & Couplers
Flowmeters, Pumps, Valves, & Gauges

Facility

1+ Acre St. Louis County
Staging Area
Two 14 Ft. Drive In Bays
Loading Dock
Fork Lift Truck
Centrally Located for National Distribution

Product Support Staff

Toll Free Product Support
7 Day/24 Hour Emergency Service
No Voice Mail

Design Considerations

Liquid Name(s)

#/gal or Sr. Gr.

Viscosity Of Liquids

Operating Temperatures

Maximum Pump Lift

Maximum Discharge Pressure

Required Flow Rate(s) (min. & max.)

Minimum & Maximum Batch Size

Container Size(s) (Scale Systems)

Are any of the Liquids Flammable, or could they be in the future?

Would the System be used in any area where Flammables are stored?

Use Environment (indoors, outdoors, dust, wash down)

What Withdrawal Tubes, Couplers, and Fittings are needed or used?

Length of Suction Line

What Discharge Valves, Nozzles, or Couplers are needed or have been used?

Length of Discharge Line

What hose materials have been used in the past?

What are the Power Requirements (pneumatic, electric/voltage)

What materials are compatible with the liquid such as Iron, Brass, Steel, Stainless Steel, Plastics, Others?

Is the Liquid compatible with EPDM, Viton, Teflon, Others?

Describe what Pumps, Meters, or Valves you may have used with this Liquid

Are any special devices required, such as Air Eliminators, Strainers, Filters, Driers, or Moisture Indicators?

Is a System of Measurement Required?

Flow Rate (min. & max) of Main Flow Stream (Injection Systems)

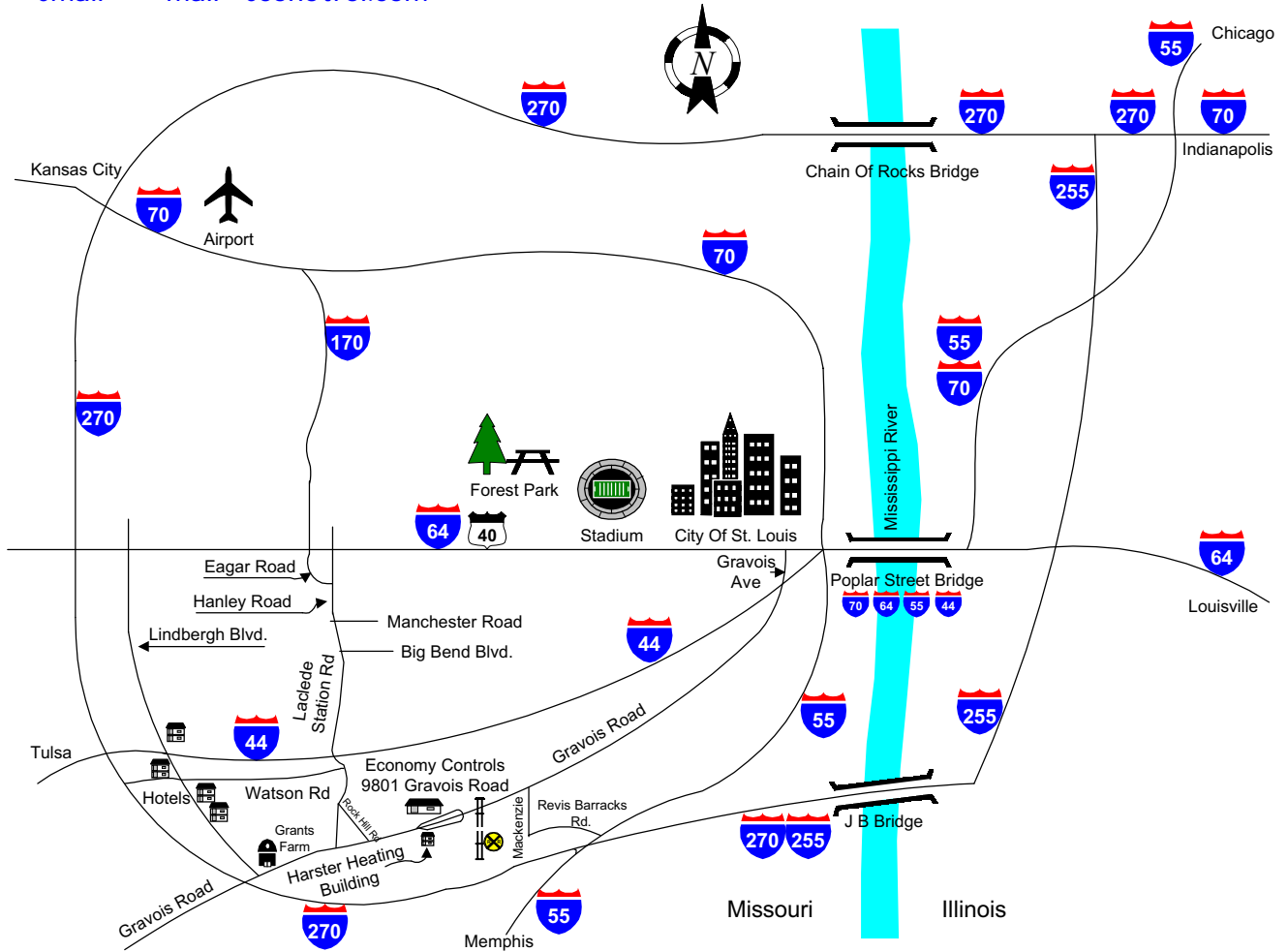
Ratio of Additive to Main flow Stream (min. & max.) (Injection Systems)

Description of Intended Use:

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*Fluid transfer systems
 that measure up!*



Quotations & Technical Support: 1-800-350-9797

24 Hour Emergency Service Support: 314-988-4086

