Filling Station

Filling Smaller containers from larger product holding tanks

The mission for this type of dispenser is to simply fill containers with liquid. Our **Filling Station** dispenser line is designed to handle the task with various automatic and semi-automatic systems. This system can handle from 1 to 10 liquid circuits and can dispense into 4 different container sizes.

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The Standard of *Accurate Speed*

There are accurate dispensers and some large volume fast dispensers, but speed usually comes at compromising accuracy. The Filling Station system, on the other hand, competes with all other equipment in terms of speed, but few can even come close to challenging the Filling Station accuracy.

Batch On Demand

The Filling Station system allows batch filling smaller containers from larger product holding tanks. Filling Station comes with *Pump Trains* for recirculation and dispensing, *valve and dispense nozzle assemblies* and an integrated *Operator Control Panel.*

Any Materials

Whether your batch materials are aggressive solvents, aqueous solutions, highly viscous materials or any other challenging media…Filling Station can handle them.

Any Size Batch

If you need a pint, quart in a small container or 50 gallons in a drum, or 300 gallons in a tote….no problem for Filling Station.

Simply Reliable

The Filling Station system requires no computer, no parameters settings and no software. The elegant simplicity of this system results in simple operation and reliable industrial plc based electronics make it an industrial work horse.

Industrial Strength

We provide systems for industry which dispense formulas and liquids into various size containers for distribution. This is not Retail or Point-of-Sale equipment; these are robust, reliable, fast and accurate dispensers for industrial uses. Whether your process uses solvent based or aqueous solutions, or a wide range of viscosities, our equipment can handle it.

Clean

All structural and surface materials are stainless steel.

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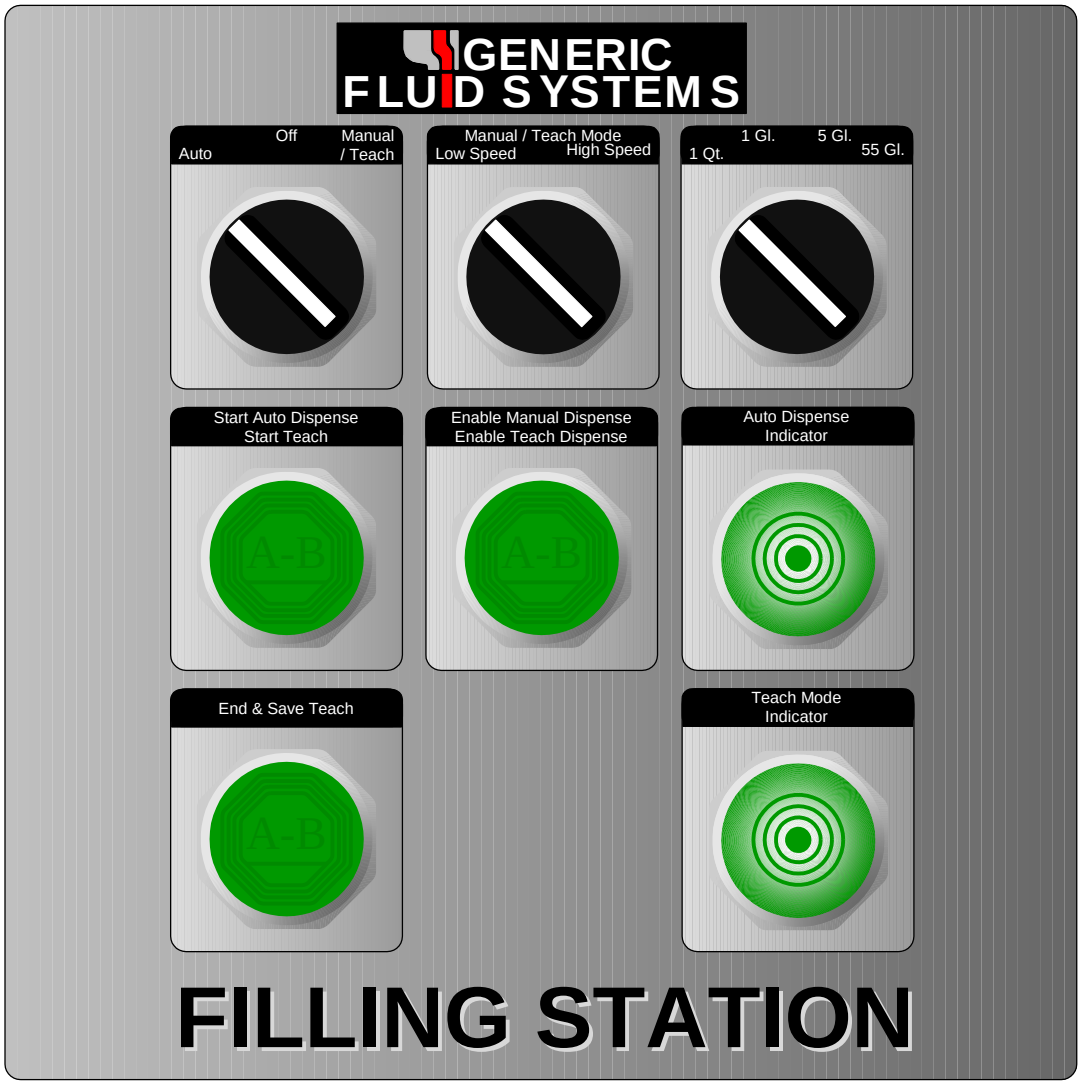
Ease of Use and Maintenance

The Filling Station does not require a PC. A simple Operator Panel controls all Manual and Automatic functions of the dispenser. Reliable industrial electronics, with no worry of computer support, upgrades or hard drive crashes.



Operator Control Panel

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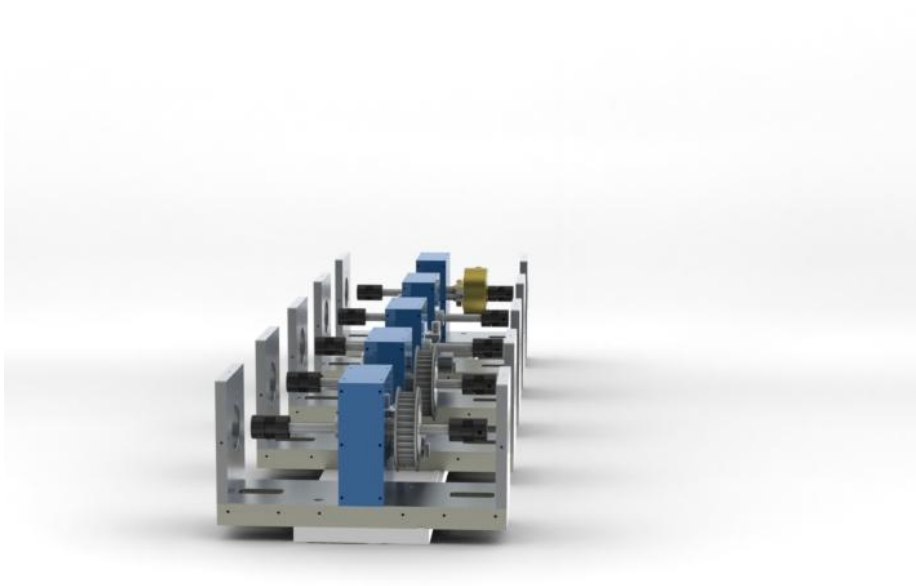
Dispense Station



Pump Drive Train (10 circuits)

Minimum Floor Space

Considering the large volume and speed the Filling Station can dispense, its' 120 square feet minimum floor space (for a typical 4 circuit unit),makes the greatest use of your floor space compared to competitors' machines.

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Specifications

Dispense Size Range……...4 switch selectable container sizes
Dispense Speed: 1 gallon (typical formula)……20 seconds
Dispense repeatable minimum shot size……..……1/10 gram

Fluid Requirements

Viscosity Range for supply materials……..…0 cp - 7,000 cp
Materials supported……solvent borne or aqueous

Machine Design Specs

Supply of materials (internal)……..3 or 6 gallon canisters
Supply of material(external)…… …….unlimited via Remote Bulk Supply
Fluid Circuit capacity…… ……..1 to 10 circuits
Operating Environment…….....from unclassified up to Class 1/Division 1
Machine composition materials…..……Stainless Steel
Footprint (10 circuit machine)..……..……..……..approximately 120 sq ft
Weight (10 circuit machine empty)…..……...……...……approximately 1000 lb

Utility Specs

Electric ……..……480 - 560 V 3phase
Pnuematic……..……..……120 psi @ 2 cfm

Pump Train Assembly

Optional Canister Wings (covers removed)

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Standard Features

- PLC based industrial controls platform. Robust and reliable.
- Hardwired Operator Control Panel.
- All Stainless Steel Construction. No PC needed.
- All covers can be removed without tools, SS appliance style sheet metal cover panels.
- Integrated laboratory grade certified scale.
- Machine was designed with easy access and plenty of room for maintenance.
- Dispense head opening can accommodate cans as small as 1 quart.
- Proprietary high speed, bubble-tight dispense valves.
- Class 1/Division 1. No purged components.

Options

- Bulk or remote feed systems direct to Filling Station
- Canister wing assemblies containing 3 or 6 gallon ingredient storage.
- Integrated secondary Floor Scale for certification of drum based dispenses.
- Conveyors, Shuttles can shakers.
- Optional Data logging to external Dispense Database.
- Dispense label printer
- Service Contracts.
- Robotic based handling systems.

Applications

- Chemical Batching
- Filling and Distribution of Liquid Batches

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Filling Station Build Template

Brief Description of Application

Number of Ingredients

☐

These are the number of ingedients you wish to automatically dispense with the Filling Station. Very low runner ingredients or dry powders can be left off the dispenser machine and added by hand, when they are called for in a formula. The Filling Station supports the concept of "hand adds".

Ingredient Material Type (check appropriate)

- ☐ Solvent Based
- ☐ Aqueous (water based)
- ☐ Both

Feedstock Supply Selection

Based on the total Number of Ingredients in the above section, determine your Feedstock supply options. It is best to select supply methods to the Volumetrix based on how you currently stock the ingredients, whether it be cans, pail, drums, totes or mother tanks.

- ☐ 3 or 6 gallon SS Canisters. Supplied in canister wings with Filling Station. Preferred for materials supplied to you in cans or pails.
- ☐ Direct feed (gravity) from customer supplied Drums.
- ☐ Direct feed (gravity) from customer supplied day Tanks or totes.
- ☐ Bulk Taps. When material is pumped to the Filling Station from remote Mother tanks.

Other Options (check appropriate)

- ☐ Second Dispense Scale (1000 lb capacity for drums)
- ☐ Integrated Dispense Label printer
- ☐ Integrated Dispense Label printer
- ☐ Quarterly Service Contract (North America)
- ☐ Quarterly Service Contract (International)
- ☐ Semi-Annual Service Contract (North America)
- ☐ Semi-Annual Service Contract (International)
- ☐ Auto Feed conveyors (Cans, Pails) to Filling Station
- ☐ Direct Tie-ins to Production Scheduling Database
- ☐ Recommended spare parts kit.

Canister Agitators

☐

If recirculation of Ingredient is not sufficient to keep it blended, optional mechanical agitators may be added to the canister. This option is for 3 or 6 gallon SS canisters.

Production Batch Sizes

Enter the Size And Approximate Number of Container Batches produced daily for production.

Pints	Quarts	1 Gal. Cans	5 Gal. Pails	20 Gal. Kegs	55 Gal. Drums	300 Gal. Totes	1000 Gal. Totes

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Pricing Guide

The pricing table below will give you an idea of the Price Range for a Filling Station System. These are budget estimates only, and a firm quotation cannot be rendered without an engineering site visit to determine exact specifications and options needed for a complete Filling Station System. The table contains 2 variables: Size and Environment.

Size

Refers to the number of ingredients you wish to load into the Filling Station, the table provides for 3 common size selections; 2,4, and 10. It should be noted however that any size of ingredients can be specified, for example 1, 3, etc…

Environment

Refers to NEC Classification for the environment where the Filling Station will be installed. Typically solvent based ingredients will require NEC Class1/Division 1 (explosive environment) or NEC Class 1/Division 2 (flammable environment). Aqueous (water based) ingredients will typically be in an unclassified or non-hazardous area.

Typical Filling Station Price Ranges (Dollars USD)		
Filling Station Size	**Non-Hazardous Enviromet**	**Hazardous Enviroment**
2 Liquids	$38,000 - $42,000	$44,000 - $50,000
4 Liquids	$44,000 - $48,000	$52,000 - $58,000
10 Liquids	$56,000 - $62,000	$70,000 - $80,000

Contact

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