

AlgorithmicControl<sup>™</sup> is the key to achieving optimum precision in fluid dispensing. Without it, manufacturers are left with hit and miss calculations that miss way more than hit. These miscalculations are the norm when compressed air systems are being used on the assembly line. Compressed air is an unstable and ever-changing gas on which algorithms cannot be accurately applied. AlgorithmicControl<sup>™</sup> offers a world of advantages that are unattainable with compressed air.



## SmartFill<sup>™</sup> Syringe Filling System

The SmartFill<sup>™</sup> Syringe Filling System enables the fast, clean and economical transfer of fluids from bulk containers to Genius<sup>®</sup> AirFree<sup>®</sup> Syringes. For use with a wide range of assembly fluids, SmartFill<sup>™</sup> reduces production downtime, increasing annual profits.

### The technologies behind SmartFill<sup>™</sup>

What makes SmartFill<sup>™</sup> smart is AlgorithmicControl<sup>™</sup>. AlgorithmicControl<sup>™</sup> allows for valve control via numeric programming. This lets manufacturers control movements within one thousandth of an inch and speed in inches per second. In addition, SmartFill<sup>™</sup> featuring AirFree<sup>®</sup> Technology, provides capabilities that eliminate human error, increase productivity, and strengthens communication between production and management.

The last page of this data sheet has links to seven videos that offer detailed information on AirFree<sup>®</sup> Technology and the innovative capabilities it delivers.

## Detachable Dispense Head

To help make machine maintenance more efficient, Fishman® Engineers designed a detachable dispense head for quick and easy removal and replacement. It is so simple, it can be done in seconds, helping maximize production throughput.



Accessory Choice

**2**

## Featuring the SmartValve™

The SmartValve™ works in conjunction with the SmartFill™ controller, also known as the SmartDispenser.® Here are the two types of SmartValves™ that can be used with the SmartFill™ Syringe Filling System—



## SmartValve™ – Needle

AirFree® Technology

The SmartValve™ – Needle is ideal for low to high viscosity fluids. The wetted part consists of a 303 Stainless & Delrin® fluid body. The volume dispense depends on the needle open distance, needle open time, viscosity, fluid pressure and tip size.



## SmartValve™ – Diaphragm

AirFree® Technology

The SmartValve™ – Diaphragm is made for low viscosity fluids, which have a negative reaction when they come in contact with stainless steel. It is for this reason that the wetted part of the Diaphragm consists of a UHMW polyethylene diaphragm and Delrin® fluid body. The volume dispense depends on diaphragm open distance, diaphragm open time, viscosity, fluid pressure and tip size.

Delrin® is a registered trademark of Dupont



Accessory Choice

2

## Pressure Reservoirs

The SmartFill™ Syringe Filling System is designed to work with two different style pressure reservoirs—



**The 2- & 5-Liter Pressure Reservoirs** are designed to allow a bottle of assembly fluid to be placed inside the reservoir. A dip tube is inserted into the center of the assembly fluid bottle, and when pressurized, assembly fluid travels through the dip tube into the tubing connection of the pressure reservoir to the SmartValve™ providing a continuous flow of assembly fluid to the SmartValve.™



**The 2- & 10-Gallon Pressure Reservoirs** are designed to allow assembly fluid to be poured directly into the reservoir. When pressurized assembly fluid travels through the tubing connecting the pressure reservoir to the SmartValve™ it provides a continuous flow of assembly fluid to the SmartValve.™



For more information on Fishman's® many innovative fluid dispensing solutions, including the SmartFill™ Syringe Filling System, Accessory Choice 2, please contact a sales representative at 800-433-2115.

# Assembly Fluid Application Program



Accessory Choice

**2**

## Featuring AirFree® Technology

Like the many other innovative solutions offered by Fishman® Corporation, the SmartFill™ Syringe Filling System is intended to support a wide range of capabilities made possible by AirFree® Technology. Below is a list of videos that highlight these capabilities.


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