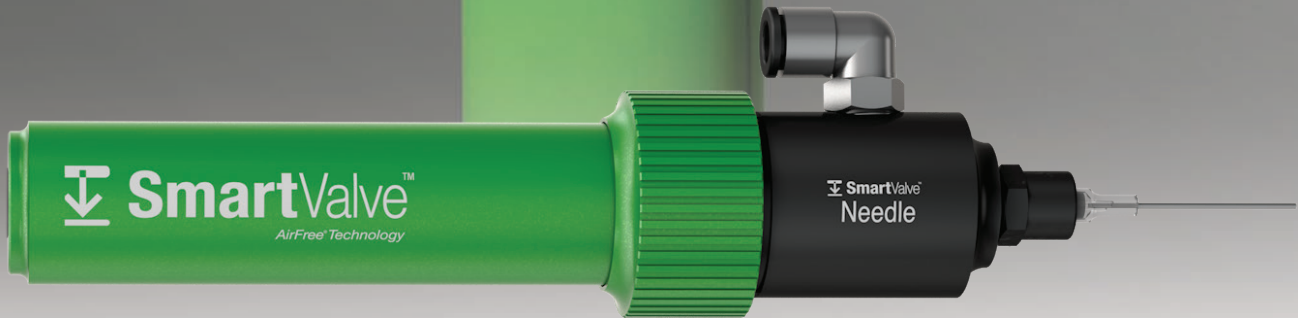
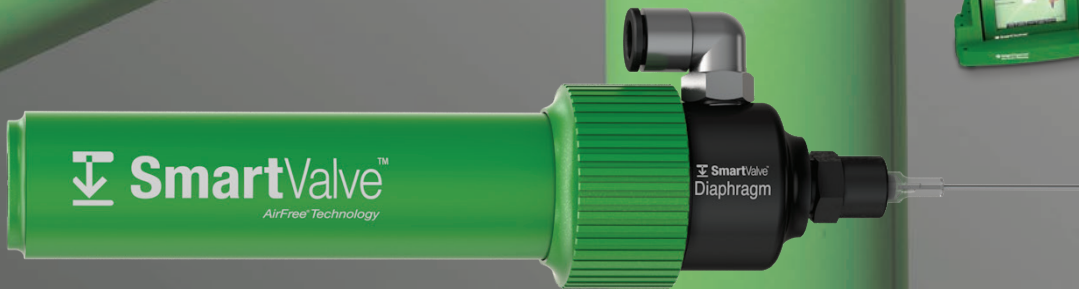
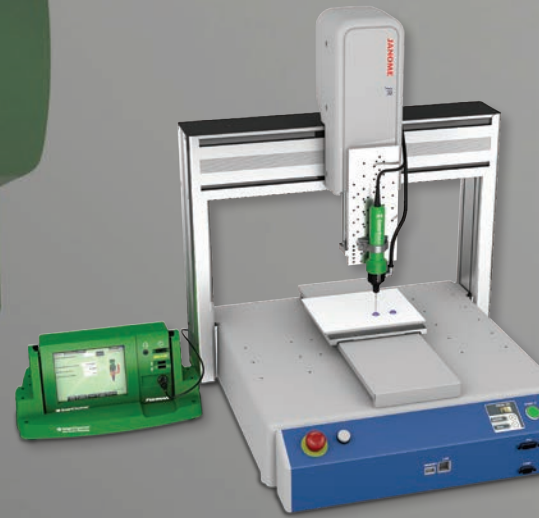


# Assembly Fluid Application Program (AFAP) Specialty Systems



## President's Message

For over 30 years I have watched compressed air fluid dispensing systems create numerous headaches for manufacturers. To remedy this situation we have spent the past decade developing solutions that eliminate compressed air from the fluid assembly process.

More and more of our solutions are finding their way onto production lines of manufacturers that have embraced the technological innovations offered by Fishman® Corporation; advancements that free them from the assembly fluid nightmares and lost profits they endured with compressed air fluid dispensing systems.

The technological bedrock of our systems is AlgorithmicControl,™ which when working in tandem with our patented AirFree® Technology, eliminate problems and increase profits. Once manufacturers see what AirFree® Technology can do for them, they are sold on its merits. Shortly after selecting our solutions, our customers begin to see that in addition to our innovative technology, it is the people behind Fishman® that truly set us apart.



When you purchase a SmartDispenser® Fluid Dispensing System you are gaining access to a group of people who not only believe in our products, but more important, are dedicated to assuring your success. When you need us, you can always count on us to be there for you. Moreover, we never put a price on what you need to make our products work for you. Instead, we will do whatever it takes to make sure you are satisfied with our solutions and with our company.

Fishman® was incorporated in 1958, and purchased by my family in 1976, I am a second generation owner. Our management team has over 70 years of combined experience perfecting the science and art of fluid dispensing systems. After you review our Assembly Fluid Application Program (AFAP) Specialty Systems Catalog, I welcome you to provide us with the opportunity to earn your trust, and with it your business.

Scott Beebe, President

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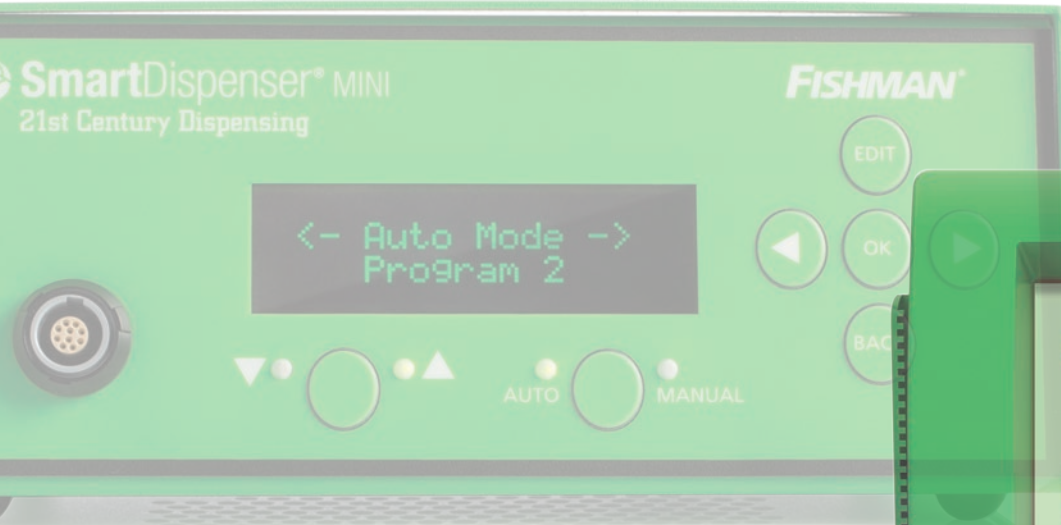
## Introduction

Fishman® Corporation's Assembly Fluid Application Program (AFAP) – Specialty Systems – is targeted at companies using assembly fluids in the manufacturing of products. The program is designed to ease the selection and ordering process of fluid dispensers, so you can find the best solution to reduce manufacturing downtime, which will result in greater throughput and profits.

The program consists of five choices, covering manufacturers doing annual production yields ranging from low to mid to high. Attached are 7 data sheets outlining the entire program. They are as follows:

- AFAP Specialty Systems Overview
- AFAP Program Choice 4
- AFAP Program Choice 5
- AFAP Program Choice 6
- AFAP Program Choice 7
- AFAP Program Choice 8
- AFAP Genius® Components

Once you review the materials, we are convinced you will see how our Assembly Fluid Application Program (AFAP) – Specialty Systems – will help you to increase annual throughput and profits.



**4** Fishman<sup>®</sup> makes it easy to go from the MINI...

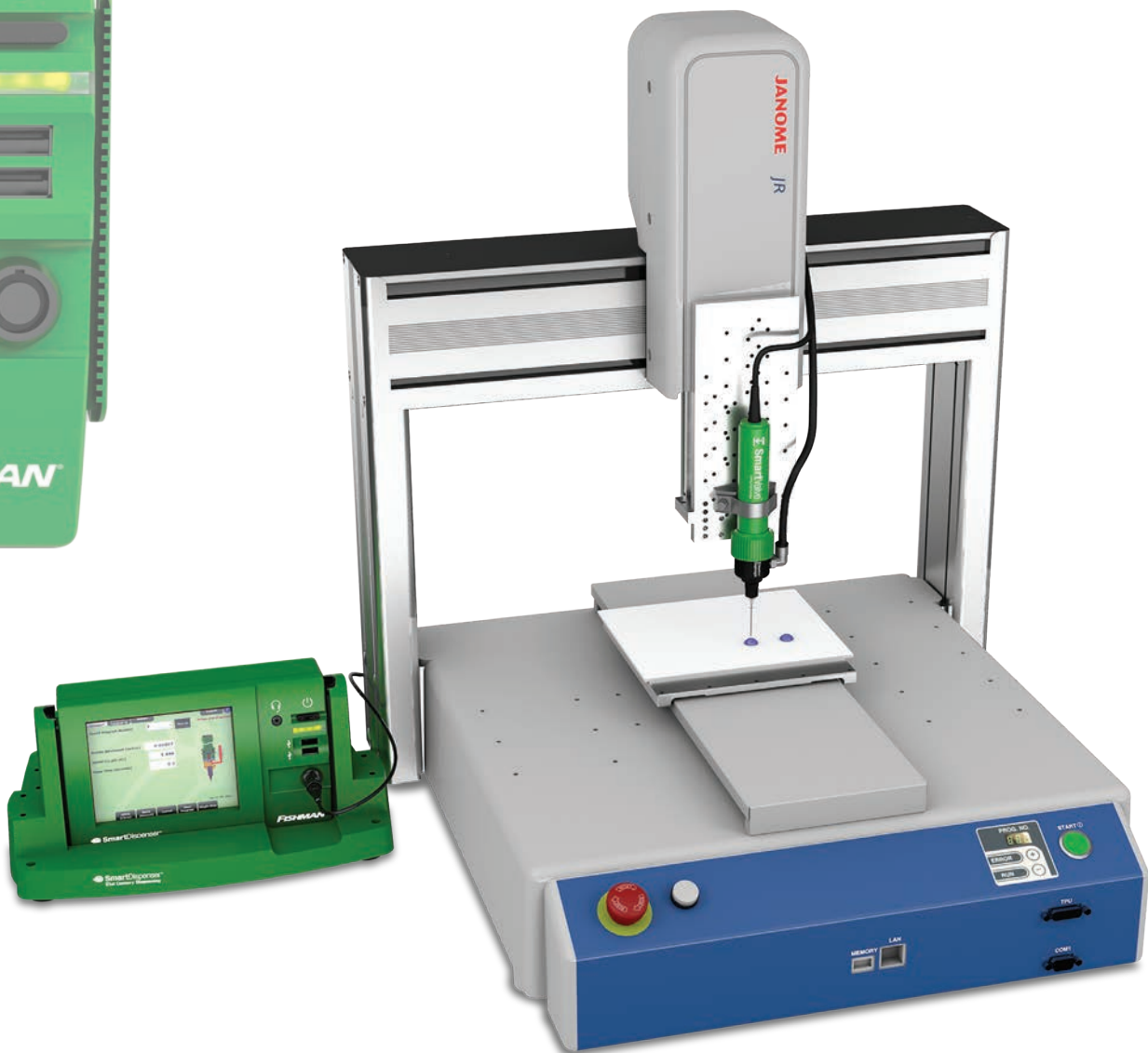
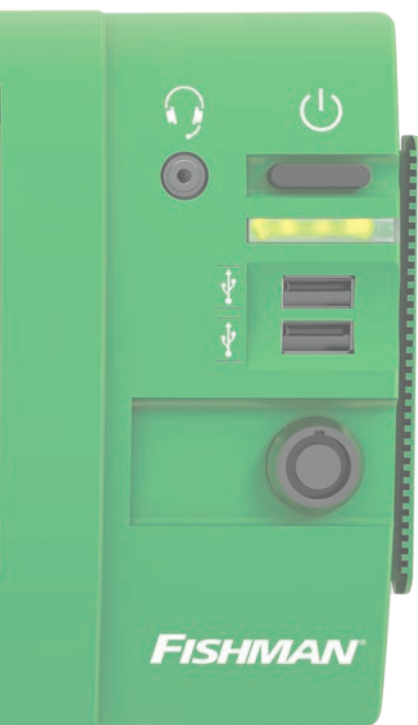


**5** ...to the Benchtop System...



# AFAP Program

## Specialty Systems



8

...to the SmartAutomation™ Platform

**AlgorithmicControl**™  
AirFree Technology

AlgorithmicControl™ 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™ offers a world of advantages that are unattainable with compressed air.

## Specialty SmartDispenser® Systems

**DualDrive**™  
AirFree Technology



**SmartValve**™  
AirFree Technology



### Five Specialty System Program Choices for General Fluids Assembly

When a single component syringe reservoir is not an option, consider one of these Specialty SmartDispenser® Systems.

Program Choice **4**

For use with 37ml, 50ml & 75ml side by side cartridges, the SmartDispenser® MINI DualDrive™ System, which includes only the AlgorithmicControl™ portion of AirFree® Technology, is ideal for limited budgets and mid to high throughput production.

Program Choice **5**

For use with 37ml, 50ml & 75ml side by side cartridges, the SmartDispenser® DualDrive™ Benchtop System, which includes the full AirFree® Technology operating system, is perfect for mid to high throughput production.

Program Choice **6**

For use with pressure tanks, such as 1 Liter, 5 Liter, 37 Liter, etc., the SmartDispenser® MINI SmartValve™ System, which includes only the AlgorithmicControl™ portion of AirFree® Technology, is made to order for limited budgets and mid to high throughput production.

Program Choice **7**

For use with pressure tanks, such as 1 Liter, 5 Liter, 37 Liter, etc., the SmartDispenser® SmartValve™ Benchtop System, which includes the full AirFree® Technology operating system, is appropriate for mid to high throughput production.

Program Choice **8**

The SmartAutomation™ platform, featuring the SmartDispenser® SmartValve™ Benchtop System, includes the full AirFree® Technology operating system and Janome Robot, and is suitable for automated high production throughput.

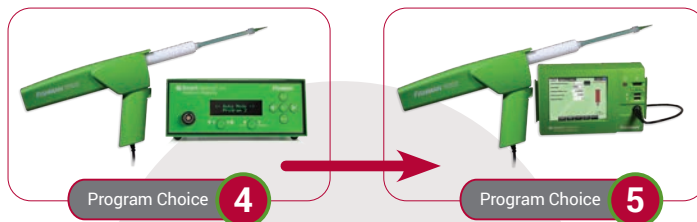
## AirFree® Technology

AirFree® Technology lets manufacturers gain total control of their processes, because it gives them a controller with intelligence.

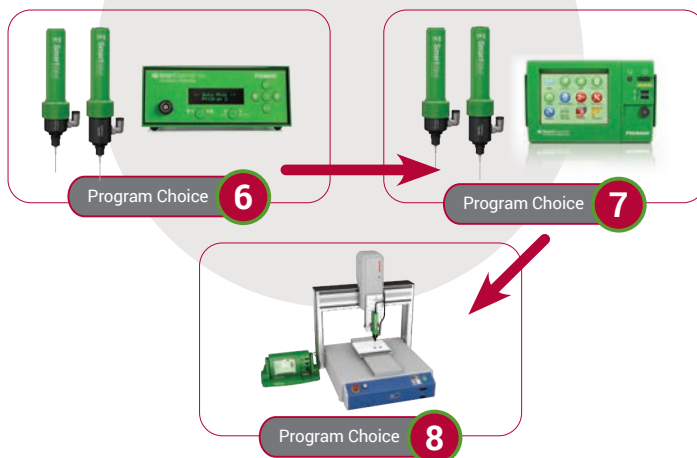
The SmartDispenser® performs precise functions without human input and errors. Its high level of intelligence is strengthened further by the array of innovative solutions available only from Fishman.®

They include SmartApps,™ and other technologies designed to enhance processes, and by doing so help to make manufacturers more successful.

### DualDrive™ AirFree Technology



### SmartValve™ AirFree Technology



**The best part about each of these Program Choices is that they are upgradable to the next option—**

#### Program Choice 4

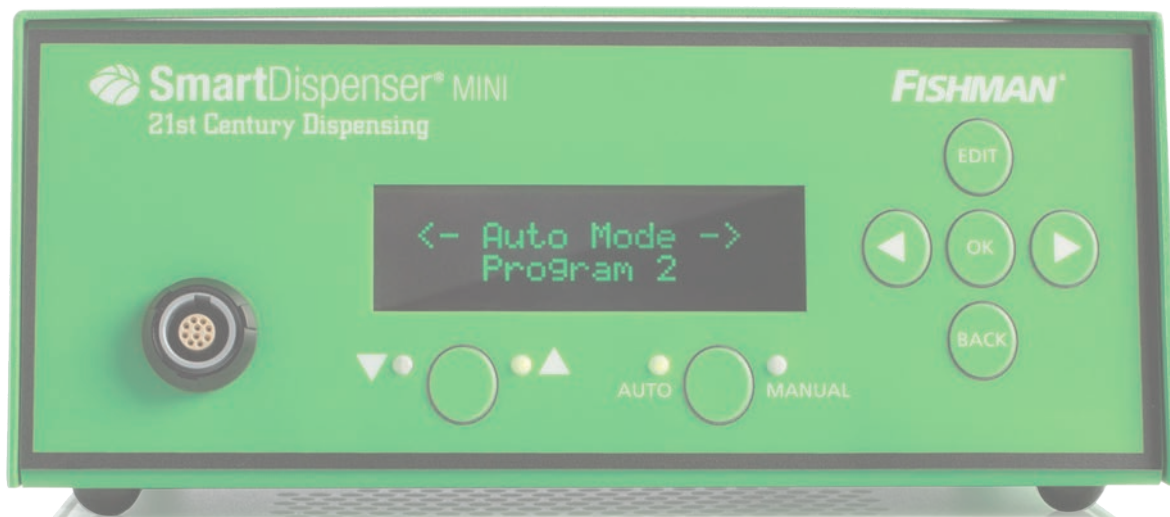
The SmartDispenser® MINI comes with a buyback program, making it easy to upgrade to the SmartDispenser® Benchtop System—see attached certificate.

#### Program Choice 6

The SmartDispenser® SmartValve™ Benchtop System can be integrated into the SmartAutomation™ platform. So, if manufacturers know they will automate down the road, they can buy the SmartDispenser® SmartValve™ Benchtop System now, and the SmartAutomation™ platform later.

#### Program Choice 7

**With any one of these three Program Choices, the original investment is never lost. As a customer's production grows, so does the SmartDispenser;® the most flexible fluid dispensing system available today.**







AlgorithmicControl™ 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™ offers a world of advantages that are unattainable with compressed air.



Program Choice

4

## Specialty MINI DualDrive™ System



# AlgorithmicControl™

AirFree® Technology

The SmartDispenser® MINI DualDrive™ System with AlgorithmicControl™ for general assembly is designed to dispense a wide range of assembly fluids, including epoxies. The system makes certain each product is assembled reject-free, assuring 100% production yields. Bottom line: the SmartDispenser® MINI DualDrive™ System provides manufacturers with the performance of a SmartDispenser® at a more affordable price, which is advantageous when running budget sensitive applications.

Program Choice

5



 **DualDrive**<sup>™</sup>  
AirFree Technology

## AlgorithmicControl™ AirFree® Technology

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Program Choice

5

## SmartDispenser® DualDrive™ Benchtop System



## AirFree® Technology

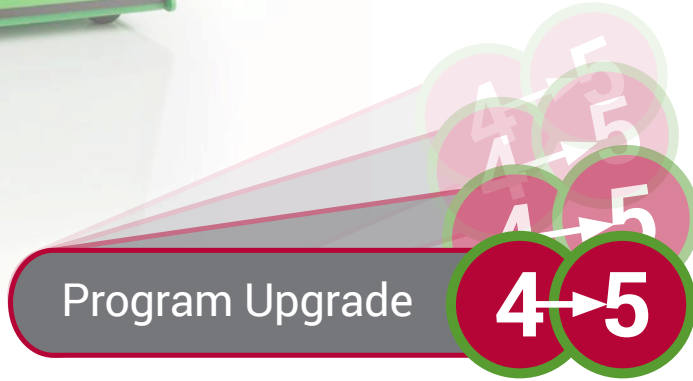
The SmartDispenser® DualDrive™ Benchtop System features AirFree® Technology. It not only delivers AlgorithmicControl™, but it also offers manufacturers a host of other benefits not possible with compressed air systems. For example, AirFree® Technology—

- Provides automatic production data reporting that management can review.
- Eliminates human error by reducing operator interaction with the use of tools, such as bar code scanning.
- Has available an on-board database that lets the SmartDispenser® make decisions like verifying the assembly fluid, automatically loading a program, and locking the system when wrong operator choices are made.
- Allows the SmartDispenser® to network with servers or MES systems for command, control and reporting functions.

Better still, as new versions of AirFree® Technology are released, the SmartDispenser® DualDrive™ Benchtop System can be safely updated with the latest innovations via a local USB memory stick. Fishman® Corporation also offers SmartApps™ that let manufacturers customize their SmartDispenser® to enhance their specific process.



**4** Fishman<sup>®</sup> makes it easy to go from the MINI...



**5** ...to the Benchtop System

Program Upgrade

4 → 5



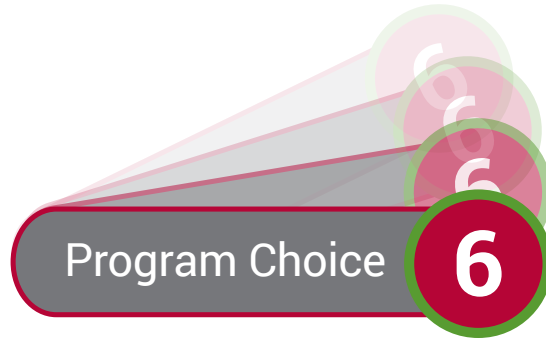
## BUY BACK CERTIFICATE

★ FULL PRICE CREDIT ★

Enjoy the best of both worlds—when you're ready to move up from the SmartDispenser® Mini to the industry 4.0 ready SmartDispenser®, simply email the certificate and the serial number off the back of the MINI, and you'll receive a product credit for the full price of the SmartDispenser® Mini.

Fishman Corporation 192 South Street, Hopkinton, MA 01748, United States  
 US & Canada: 800.433.2115 | Worldwide: 1.508.435.2115 | [www.fishmancorp.com](http://www.fishmancorp.com)







AlgorithmicControl™ 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™ offers a world of advantages that are unattainable with compressed air.



Program Choice

6

## Specialty SmartValve™ Benchtop Dispensing Kit



# AlgorithmicControl™

AirFree® Technology

What makes the SmartValve™ smart is AlgorithmicControl™. AlgorithmicControl™ allows for valve control via numeric programming. This lets manufacturers control movements within one thousandth of an inch and speed in inches per second. The SmartValve™ Benchtop Dispensing Kit is ideal for hand-held pen style dispensing or mounting to a benchtop fixture, and moving the part being assembly underneath the SmartValve™ for fluid application.

## Detachable Dispense Head

To help minimize the impact of dispense valves clogging and the resulting need for cleaning, 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.



## Specialty SmartValve™ Benchtop Dispensing Kit



### 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. The wetted part 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



## 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.™

Certified AirFree®

FISHMAN  
Dispensing Innovation

Since 1959

MADE IN THE USA

For more information on Fishman's® many innovative fluid dispensing solutions, including the Specialty SmartValve™ Benchtop Dispensing Kit, Program Choice 6, please contact a sales representative at 800-433-2115.



Program Choice **7**





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Program Choice

7

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 **AirFree® Technology**

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

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Certified AirFree®

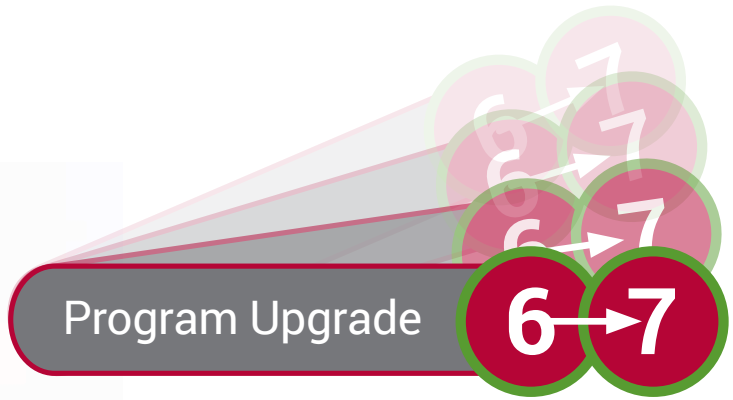
**FISHMAN**  
Dispensing Innovation  
Since 1959  
MADE IN THE USA

For more information on Fishman's® many innovative fluid dispensing solutions, including the Specialty SmartValve™ Benchtop Dispensing Kit, Program Choice 7, please contact a sales representative at 800-433-2115.



6

Fishman® makes it easy to go from the MINI.....



7

...to the Benchtop System.



Program Upgrade

6 → 7



**SmartDispenser® MINI**  
AirFree® Technology



**SmartDispenser®**  
AirFree® Technology

## BUY BACK CERTIFICATE

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Dispensing Innovation®



Program Choice

8







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Program Choice

8

## Specialty SmartValve™ Automation Integration Kit

### The SmartValve™ Can Integrate with Any Automation Platform



Like so many of the solutions offered by Fishman® Corporation, the SmartValve™ more than lives up to its name. Its intelligence is gained by taking advantage of the unique capabilities provided by AlgorithmicControl™ and its counterpart technology, SmartAutomation™. Thanks to AlgorithmicControl™, exact valve control is achieved through numeric programming, which permits control movements within one thousandth of an inch and speed by inches per second. Now add to that the ability of algorithms controlling multiple robot axes that are coordinated with the algorithms managing the SmartDispenser®, and it is clear to see how AlgorithmicControl™ and SmartAutomation™ provide manufacturers with a solution that guarantees utmost control of fluid deposits and fluid beading.

**Detachable Dispense Head**

To help minimize the impact of dispense valves clogging and the resulting need for cleaning, 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.



**Specialty SmartValve™ Benchtop Dispensing Kit**



**SmartValve™ – Needle**  
AirFree Technology

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For more information on Fishman's® many innovative fluid dispensing solutions, including the Specialty SmartValve™ Benchtop Dispensing Kit, Program Choice 8, please contact a sales representative at 800-433-2115.



## The Difference in Technology

Program Choices 4 & 6 provide manufacturers with an excellent starting point in terms of the technological innovations offered by Fishman<sup>®</sup> Corporation. These two links will take you to a pair of informative videos that illustrate why our fluid dispensing solutions are so much more effective than any other product on the market today.

Program Choices

4 & 6



[▶ Watch Video](#)



# AlgorithmicControl<sup>™</sup>

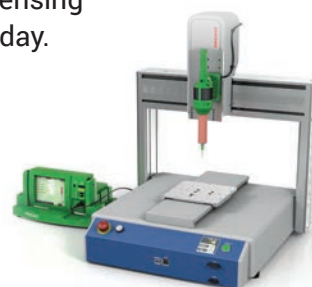
AirFree<sup>®</sup> Technology

[▶ Watch Video](#)



**Program Choices 5, 7 & 8** provide manufacturers with the full complement of technological advancements offered by Fishman® Corporation. These eight links will take you to an array of informative videos that illustrate how these innovations make our fluid dispensing solutions considerably more effective than any other product on the market today.

Program Choices

**5 7 & 8**

[▶ Watch Video](#)


# AirFree® Technology


**AlgorithmicControl**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

**SmartApp**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

**SmartNetworking**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

**SmartScanning**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

**SmartReporting**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

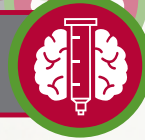
**SmartRecycling**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

**SmartValve**<sup>™</sup>  
 AirFree® Technology

[▶ Watch Video](#)

Genius<sup>®</sup> Components



## Genius® Dispensing Components

Genius® Dispense Tips are blunt industrial grade, burr free and made to the highest quality standards. This is important because the dispense tip helps define the deposit shape and the performance of your dispenser.



**Taper Tip**



SurLock thread design maximizing the strength of attachment to the barrel

Gradual taper removes restrictions, reducing internal pressure and assuring free flow

**FlexTip™**



Ergonomic design for easy attachment

Flexible polypropylene tubing is inert and prevents scratching

**Stainless Steel Tip**



Positive stop design guarantees close tolerance of tip length

Polished burr free stainless steel for free flow of fluids



# Assembly Fluid Application Program (AFAP) Specialty Systems


**DualDrive**<sup>™</sup>  
 AirFree Technology


**SmartValve**<sup>™</sup>  
 AirFree Technology


For more information on Fishman's<sup>®</sup> Assembly Fluid Application Program (AFAP) Specialty Systems as well as on any of the other innovative solutions and programs outlined in this catalog, please contact a sales representative at 800-433-2115.