

SmartDispenser™

MDAV LINEAR DRIVE SYSTEM



SmartDispenser™

Medium Dot Any Viscosity

Use this model for dispense volumes between .00045 & 30cc., ideal for medium dot and medium to short bead dispensing, while maintaining repeatability 6 to 10 times greater than pneumatic systems. For use with industrial grade Genius reservoirs and dispense tips.

MDAV

21st Century Dispensing

Everything moves at the speed of light. Product life cycles are shortened. Real time performance data is more important than ever. Get it right the first time or your product is dead! Machines need to network, communicate and provide real time data over the cloud. Remote access and programming provide instantaneous control demanded by today's manufacturers.

What makes the SmartDispenser™ so smart? The combination of 3 powerful platforms.

AIR-FREE MANUFACTURING

- One program – worldwide
- Closed-loop feedback
- 6-10X more repeatable than pneumatics
- Volume base numeric dispensing
- Positive displacement via stepper motor
- Firmware proven for over a decade
- Eliminates expensive air compressor
- Designed to integrate into automation systems using PLC's

WINDOWS 7 NETWORKING

- Global networking
- Remote programming and lock out
- Real time production data
- Live video feed
- Auto e-mail of unauthorized program changes
- On screen work instruction (audio option)
- Connectivity between SmartDispensers™ Desktop, Laptop and Smartphone.
- Video/Audio training and tutorials

SMARTPHONE FUNCTIONALITY

- Touch screen
- Finger gesturing controls
- Apps ready

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FISHMAN®
 Dispensing Innovation™

SmartDispenser™ MDAV LINEAR DRIVE SYSTEM


MDAV Medium Dot Any Viscosity

BARREL SIZE	3CC	5CC	10CC
MIN. VOL. (CC)	.00045	.00079	.00131
MAX. VOL. (CC)	3.0	5.0	10.0
MIN. RATE (CC/SEC)	.011	.020	.033
MAX. RATE (CC/SEC)	.267	.477	.783
MAX. BACKOFF (STEPS)	500	500	500
MAX. DELAY (SEC)	9.99	9.99	9.99



The SmartDispenser™ MDAV (3-10cc) comes with 3-10cc Dispense Gun and 3, 5, 10cc Retaining Rings.

BARREL SIZE	30CC
MIN. VOL. (CC)	.00257
MAX. VOL. (CC)	30.0
MIN. RATE (CC/SEC)	.064
MAX. RATE (CC/SEC)	1.543
MAX. BACKOFF (STEPS)	500
MAX. DELAY (SEC)	9.99



The SmartDispenser™ MDAV (30cc) comes with 30cc Dispense Gun and 30cc Retaining Rings.

Genius™ Dispensing Components deliver advanced dispensing performance

Fishman's dispensing system components are designed specifically for industrial use, achieving optimized performance from AirFree™ dispensing systems.

Barrel Reservoirs (available in 5 sizes)

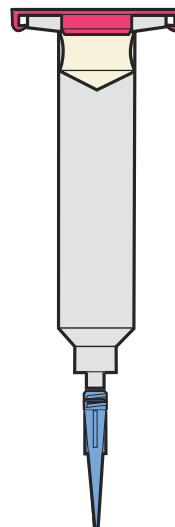
- Thickwall design eliminates flexing
- Precision molded zero degree taper assures smooth flow
- Disposable design eliminates need for cleaning PosiLok™ Pistons
- Enclosed chambers protect workforce from contacting assembly fluid.

PosiLok™ Pistons

- AirFree™ design featuring patented positive lock piston attachment for positive displacement dispensing
- Precision molded for smooth flow and uniform advance
- Engineered to allow trapped air to escape while sealing in vapors and fluid

Dispensing Tips (available in 3 styles)

- Ergonomic Surlock™ design locks securely to the barrel with a simple twist
- Multiple sizes and lengths available to satisfy any dispensing application



Fishman Corporation manufactures in a Certified Free environment, achieving close tolerance precision in an industrial grade system. Contact our Fluid Dispensing specialists to take advantage of our experience with thousands of successful applications and to pick the right components for your specific application needs. For free samples, go to www.fishmancorp.com/samples.

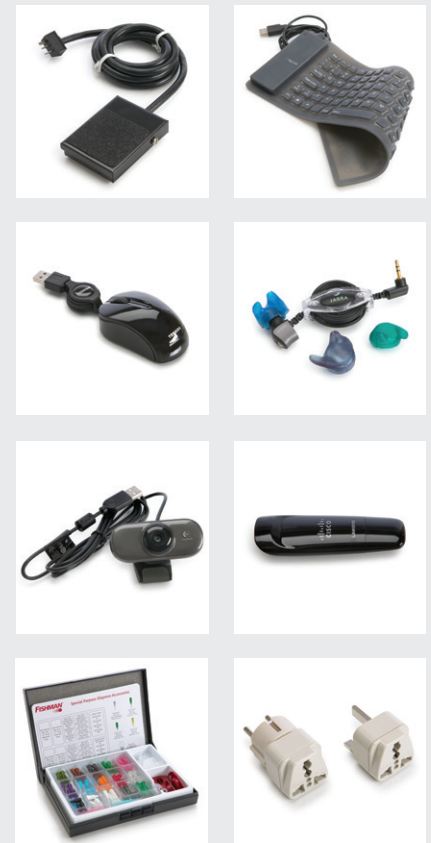
MDAV SMARTDISPENSER™ APPLICATIONS

Thick pastes	*
Thin watery fluids	*
Thin cyanoacrylates	•
Solder paste	*
Pre-mixed and frozen	*
Microdots	+
Bonding and gluing	*
Potting and filling	•
Beading and stripping	*

* Recommended • Satisfactory + Do not use

SMARTDISPENSER™ MDAV 3-30CC DISPENSE STARTER KIT CONTENTS

- Foot Pedal
- Keyboard
- Mouse
- Earphone
- Video Camera
- Cisco Wireless Connectivity Device
- Needle Kit
- Manuals
- Power Supply Connection
- Universal Power Supply



SmartDispenser™ MDAV LINEAR DRIVE SYSTEM



SPECIFICATIONS

Usage:	Indoor use
Altitude:	Up to 2000m
Temperature:	0° to 40° C
Maximum Relative:	80% for temperatures up to 31° C decreasing linearly to
Humidity:	50% relative humidity at 40° C
Mains Supply	
Voltage Fluctuations:	Not to exceed $\pm 10\%$
Installation	
Overvoltage:	Category II
Pollution:	Degree 2, Class 1
Input Voltage:	100-240 VAC 47-63Hz
Max Inrush Current:	3.2A-1.8A
Output Voltage:	5.0VDC
Output Power:	4.6W
Fuse Rating:	1.0A/250 VAC
Initiate Circuit:	Foot Pedal (dry contact) finger switch
Drive Motor:	MDAV 3.75 Degree 96 Steps/Rev
Axial Movement:	MDAV .024 Axial Pitch .00025"/Step
Control Circuitry:	CMOS microprocessor
Interface:	Tactile key pad
Minimum Dispense Volume:	0.00023ml

CONTROL UNIT

Size:	5.6 x 9.9 x 6.3in (14.23 x 25.15 x 16cm)
Weight:	4.7lbs (2.13 kg)

GUN

Length:	7in (17.8cm)
Weight:	6oz (170.1 gr)
Cable Length:	3in or 3 feet (7.62cm or 91.5cm)