

# DX-250 /-350 Digital Dispensers

## DX-250 Series Digital Dispenser



The DX-250 Series is a high performance Digital Dispenser. Complete with a range of accessories, the micro-air dispensing system unites affordability with high accuracy and repeatability for exceptional results.

These user friendly fluid dispensing systems include a digital timer with a rotary control time knob for easy setup and a vacuum suck-back control for all viscosities of fluids.

### Key Features & Benefits

- ▶ Small footprint and lightweight
- ▶ Economical dispenser
- ▶ Highly accurate and repeatable micro-air dispensing
- ▶ Digital timer and vacuum controls
- ▶ Available in two versions of operating pressure: 0 to 100 psi for general applications, and 0 to 15 psi for specific low viscosity applications
- ▶ Packaged ready to use with a universal power supply, foot switch, air hose, sample tips, syringe barrels and adapter.
- ▶ I/O Interface for robotic applications

Part No.	Description
DX-250	Digital Dispenser 0 to 100 psi (0 to 6.9 bar)
DX-255	Digital Dispenser 0 to 15 psi (0 to 1.0 bar)

### Technical Specifications

Size (W x L x H)	152mm x 165mm x 178mm (6" x 6.5" x 7")
Weight	1.2Kg (2.6 lb)
Cycle Rate	600 cycle/minute
Timing Range	0.020 to 60.000 seconds
Timing Tolerances	+/- 0.001%
Input Voltage	100-240 VAC
Input Frequency	50-60 Hz
Cycle Mode	TIMED, PURGE
I/O Interface	Initiated by voltage or contact closure
Certification	CE, TUV-GS, NRTL
Warranty	1 year



## DX-350 Series Digital Dispenser

The DX-350 Series is a microprocessor-driven and fully digital Dispenser. Intuitive to use, the DX-350 dispenses low, medium and high-viscosity fluids accurately and consistently.

The firmware provides the option of programming up to 10 varied, sequenced or individual shots.

The DX-350 includes an adjustable vacuum-driven "suck-back" to control material "tailing" and waste.



### Key Features & Benefits

- ▶ Small footprint and lightweight
- ▶ 10 programmable dispense routines and 4 operating modes
- ▶ Digital timer, pressure and vacuum read-outs
- ▶ Accurate reproduction of sequences of beads or dots
- ▶ Adjustable vacuum suck back feature for controlling drips of fluid between dispense cycles
- ▶ Available in two versions of operating pressure: 0 to 100 psi for general applications, and 0 to 15 psi for specific low viscosity applications
- ▶ Packaged ready to use with a universal power supply, foot switch, air hose, sample tips, syringe barrels and adapter
- ▶ I/O Interface for robotic applications

Part No.	Description
DX-350	Digital Dispenser 0 to 100 psi (0 to 6.9 bar)
DX-355	Digital Dispenser 0 to 15 psi (0 to 1.0 bar)

### Technical Specifications

Size (W x L x H)	152mm x 165mm x 178mm (6" x 6.5" x 7")
Weight	1.2Kg (2.6 lb)
Cycle Rate	1200 cycle/minute
Timing Range	0.008 to 60.000 seconds
Timing Tolerances	+/- 0.001%
Input Voltage	100-240 VAC
Input Frequency	50-60 Hz
Memories	10 programmable
Cycle Mode	TIMED, INTERRUPT, TEACH, PURGE
I/O Interface	Initiated by voltage or contact closure
Certification	CE, TUV-GS, NRTL
Warranty	1 year



# Dispensing Tips



## TE Tips Series

- ▶ Stainless-steel cannula with a double Helix polypropylene hub
- ▶ Burr-free and electro-polished cannula for unobstructed and consistent material flow
- ▶ Silicone and chloride free
- ▶ Sold in packs of 50

Gauge	1/4" (6.35mm)	1/2" (12.7mm)	1" (25.4mm)	1-1/2" (38.1mm)
14		914050-TE	914100-TE	914150-TE
15		915050-TE	915100-TE	915150-TE
18	918025-TE	918050-TE	918100-TE	918150-TE
20	920025-TE	920050-TE	920100-TE	920150-TE
21	921025-TE	921050-TE	921100-TE	921150-TE
22	922025-TE	922050-TE	922100-TE	922150-TE
23	923025-TE	923050-TE	923100-TE	923150-TE
25	925025-TE	925050-TE		
27	927025-TE	927050-TE		
30	930025-TE	930050-TE		
32	932025-TE			
34	934025-TE			














## TE Bent Tip Series

- ▶ Precision bent tips at 45° and 90° angles
- ▶ Perfect for dispensing fluid in hard to reach places
- ▶ Sold in packs of 50

Gauge	1/2" (12.7mm) 1-1/2" (38.1mm)		
	90°	45°	45°
14	914050-90BTE	914050-45BTE	914150-45BTE
15	915050-90BTE	915050-45BTE	
18	918050-90BTE	918050-45BTE	918150-45BTE
20	920050-90BTE	920050-45BTE	
21	921050-90BTE	921050-45BTE	921150-45BTE
22	922050-90BTE	922050-45BTE	
23	923050-90BTE	923050-45BTE	
25	925050-90BTE	925050-45BTE	
27	927050-90BTE	927050-45BTE	
30	930050-90BTE	930050-45BTE	

## Color Coding and Gauge For TE Series and TE Bent Tips

	Gauge	Colour	I.D. (inches)	I.D.(mm)
	14	Olive	0.063	1.600
	15	Amber	0.054	1.371
	18	Green	0.033	0.838
	20	Pink	0.024	0.610
	21	Purple	0.020	0.508
	22	Blue	0.016	0.406
	23	Orange	0.013	0.330
	25	Red	0.010	0.254
	27	Clear	0.008	0.203
	30	Lavender	0.006	0.152
	32	Yellow	0.004	0.102



## BT Series

- ▶ Double Helix Brush Tips for "spread" applications such as glues and other materials.
- ▶ Soft brush is made of Red Sable
- ▶ Stiff brush is made of Nylon
- ▶ Available in packs of 12.

Gauge	Soft Bristle	Stiff Bristle
16	916BT-SOFT	916BT-STIFF
18	918BT-SOFT	918BT-STIFF
22	922BT-SOFT	922BT-STIFF



## TS-P Plastic Series Tips

- ▶ Flexible tips allow access to hard to reach areas
- ▶ 1-1/2" but length can also be customized
- ▶ Ideal for CA applications
- ▶ Both hub and cannula are made from polypropylene
- ▶ Sold in packs of 50

Gauge	Colour	TS-P Needle
15	Grey	915150-PTS
16	Brown	916150-PTS
18	Pink	918150-PTS
20	Yellow	920150-PTS
22	Black	922150-PTS
25	Red	925150-PTS



## TT Series Tips

- ▶ Tapered tip prevents blockage and increase flow of high viscosity filled materials
- ▶ Standard tips molded in high density polyethylene with UV light block additive
- ▶ Rigid tips are molded in polypropylene
- ▶ Sold in packs of 50

Gauge	Colour	Standard TT Tips	Rigid TT Tips
14	Olive	914125-DHUV	914125-RIGID
16	Grey	916125-DHUV	916125-RIGID
18	Green	918125-DHUV	918125-RIGID
20	Pink	920125-DHUV	920125-RIGID
22	Blue	922125-DHUV	922125-RIGID
25	Red	925125-DHUV	925125-RIGID
27	Clear	927125-DHUV	927125-RIGID



## Dispensing Tip Kit

- ▶ Kit contains a selection of most popular TE, TE Bent and TT tips

900-NK Dispensing Tip Kit

# Dispensing Consumables



## End Caps

- ▶ Designed to seal large end of the syringe barrel
- ▶ Ensure no contaminants come in contact with material during storage
- ▶ Made from polyethylene
- ▶ Available in packs of 50

Size	End Cap
3cc	903-ECB
5cc	905-ECB
10cc	910-ECB
30/55cc	93055-ECB



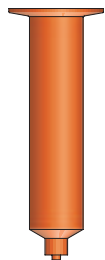
## Air Powered Pistons

- ▶ Wiper Pistons provide a seal for low to medium viscosity fluids
- ▶ Straight Wall Pistons for reduced stringing with medium to high viscosity fluids
- ▶ Both styles of pistons are made from polyethylene
- ▶ Sold in packs of 50



Size	Wiper Piston (White)	Straight Wall (Red)	Easy Flow (Blue)
3cc	903-WW	903-SWR	903-EFB
5cc	905-WW	905-SWR	905-EFB
10cc	910-WW	910-SWR	910-EFB
30/55cc	93055-WW	93055-SWR	93055-EFB

	700 Series Color	Application Examples
Smooth Piston	Blue	Anaerobic, epoxy, flux, SMA, oil, silicone, UV
Tighter Piston	White	Any fluid used on a mechanical rod/gun including UV
Straight Wall Piston	Red	SMA, Solder paste, viscous grease



## Syringe barrels

- ▶ Unique ultra-low draft of inner diameter yield high accuracy and stability
- ▶ Industry compliant silicone / chloride free, low friction polypropylene
- ▶ 3 colours: Natural for most generic applications, Amber for protection of UV/visible light block (up to 520nm), Black for total light block
- ▶ Sold in packs of 50

Size	Natural	Dark Amber	Black
3cc	903-N	903-D	903-B
5cc	905-N	905-D	905-B
10cc	910-N	910-D	910-B
30cc	930-N	930-D	930-B
55cc	955-N	955-D	955-B



## Tip Cap

- ▶ Use to seal syringe barrel when not in use
- ▶ Fits all syringe sizes
- ▶ Blue stand up tip cap that enables the syringe barrel to stand upright
- ▶ Made from polypropylene
- ▶ Sold in packs of 50



900-ORTC	Tip Care Double Helix Thread, Orange
900-BTC	Tip Care Double Helix Thread, Black
900-STC	Stand-up Tip Cap, Blue

## Syringe Assembly Kits

- ▶ Packaged together in ready-to-use kits of 50 each (syringe and Wiper Piston, without piston inserted)

Size	Natural	Natural with blue piston
3cc	903-NW	903-NBL
5cc	905-NW	905-NBL
10cc	910-NW	910-NBL
30cc	930-NW	930-NBL
55cc	955-NW	955-NBL



## Manual Syringe Barrels

- ▶ Provide simple and quick dispensing solutions without the need for compressed air
- ▶ Molded from Polypropylene resin, manual plungers
- ▶ Compatible with a wide range of dispensing fluids
- ▶ Pistons are made from thermoplastic rubber
- ▶ Available dry or with lubrication
- ▶ Sold in packs of 50



Part No.	Description
903-PL	Manual Plunger, 3cc
903-PRD	Manual Piston Rubber, 3cc
903-PRL	Manual Piston Rubber, Lub, 3cc
905-PL	Manual Plunger, 5cc
905-PRD	Manual Piston Rubber, 5cc
905-PRL	Manual Piston Rubber, Lub, 5cc
910-PL	Manual Plunger, 10cc
910-PRD	Manual Piston Rubber, 10cc
910-PRL	Manual Piston Rubber, Lub, 10cc
930-PL	Manual Plunger, 30cc
930-PRD	Manual Piston Rubber, 30cc
930-PRL	Manual Piston Rubber, Lub, 30cc

# Foot Valve Dispenser & Accessories

## 924-DFV Series Foot Valve Dispenser



The 924-DFV Series Foot Valve Dispenser offers increased production combined with dispenser economy. Floor mounted, they have a built in pressure regulator, pressure gauge and a unique fast-dump, three-way air valve. Output rate and shot size are operator controlled.

The 924-DFV is the ideal basic dispensing unit for most

general applications of adhesives, sealants, coatings and compounds.

The 924-DFV-VAC features a vacuum suck-back to prevent very thin materials from dripping to reduce tailing or stringing with thicker materials.

### Key Features & Benefits

- ▶ Ideal for applications where electricity is prohibited
- ▶ Robust design
- ▶ Floor mounted conserves bench space
- ▶ No programming required

Part No.	Description
924-DFV	Foot Valve Dispenser
924-DFV-VAC	Foot Valve Dispenser with Vacuum

### Technical Specifications

Size (W x L x H)	124mm x 206mm x 121mm (8.1" x 4.9" x 4.7")
Weight	1.8Kg (4 lb)
Input Pressure	100 psi max (6.9 bar)
Operating Pressure	Up to 100 psi (6.9 bar)
Cycle Mode	Manual
Vacuum Force	Up to 15" of Hg (924-DFV-VAC only)
Warranty	1 year



## Receiver Head Assembly

- ▶ Connecting link between time/pressure controllers and Syringe assemblies
- ▶ Provides a safe connection for accident proof dispensing
- ▶ Available with 3 or 6 feet of tubing
- ▶ Includes: receiver head with O-ring, tubing and male quick connector
- ▶ Receiver heads are made of Delrin®
- ▶ Sold individually



Size	3' Hose	6' Hose
3cc	903-3RHB	903-6RHB
5cc	905-3RHB	905-6RHB
10cc	910-3RHB	910-6RHB
30/55cc	93055-3RHB	93055-6RHB

## Replacement O-rings for Receiver Head

- ▶ Sold in packs of 10

Size	EPR O-ring	VITON O-ring
3cc	P3015EPK	P3019VPK
5cc	P3016EPK	P3020VPK
10cc	P3017EPK	P3021VPK
30/55cc	P3018EPK	P3022VPK



## Manual Syringe Gun

- ▶ Lightweight barrel applicator gun
- ▶ Provides excellent control for medium/high viscosity products
- ▶ Easy to use. No dripping or mess

Size	Manual Syringe Gun	Plunger Rod
10cc	910-MSG	71000ROD
30cc	930-MSG	73000ROD

## Vacuum Pencil

- ▶ Use for pick and place function
- ▶ Stand-alone vacuum pick-up requires shop air
- ▶ Optional Mixed Kit of Vacuum Cups also available



TS8120	Vacuum Pick Up Assembly
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## Syringe Holder

- ▶ Use for 900 Series syringes

SH-300	Syringe Holder
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## Finger Switch Assembly

- ▶ Use with Metcal dispensers and syringes in place of a foot pedal
- ▶ Provides control at your finger tip

DX9010	Finger Switch Assembly for DX Series Dispenser
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