

# 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

1/2" (12.7mm) 1-1/2" (38.1mm)

| Gauge | 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 |

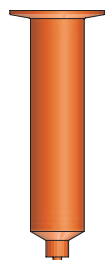


## Air Powered Pistons

- 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<br>(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<br>(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 |
|--------|-------------------------|

## Syringe Holder

- ▶ Use for 900 Series syringes

|        |                |
|--------|----------------|
| SH-300 | Syringe Holder |
|--------|----------------|



## 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 |
|--------|------------------------------------------------|