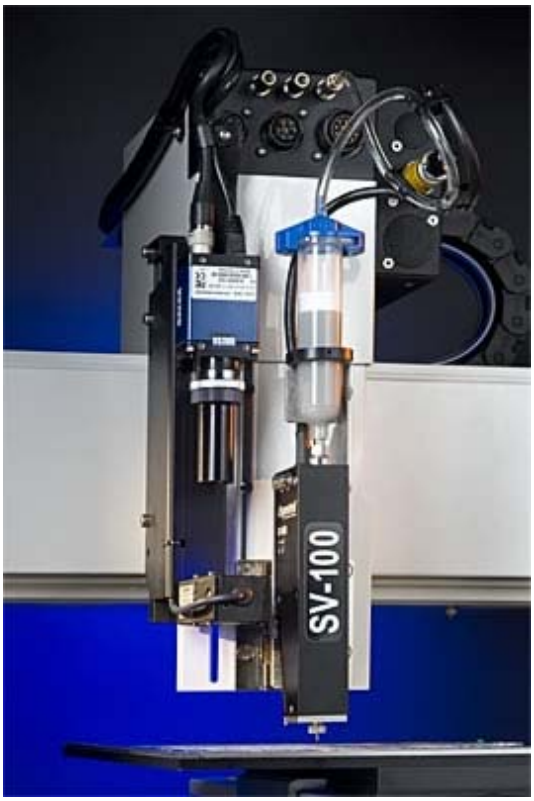
Slider Valve SV-100

High-speed solder paste dispensing

Features and Benefits

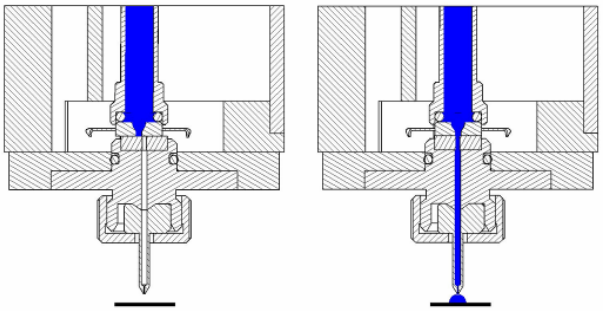
- **Up to 2x faster than auger dispensers**
- **Resistant to clogging**
- **Dot and line deposition capability**
- **Compatible with**
  - **Lead-free and no-clean solder pastes**
  - **Type 4, 5, and 6 pastes**
  - **Silver-filled epoxies**
- **Dot sizes range from 300 µm to 800 µm, depending upon your specific application**
- **Uses off-the-shelf needles**
- **Ideal for BGA/QFN re-work, when screen printing is not an option**
- **Complements screen printing when SMT component mix requires large variation in dot sizes or difficult-to-print dot sizes**



Nordson ASYMTEK's SV-100 Slider Valve dispenses paste-type fluids with metal additives better than traditional needle dispensing, using slider valve technology.

This technology utilizes high-frequency, piezoelectric-drive actuation to quickly deposit small dots of thick fluids like solder paste and silver-filled epoxies. Lever action aligns valve seats to open a smooth path for fluid flow. Within milliseconds, the holes are forced out of alignment to stop fluid flow, and a dot is formed.

The SV-100 is fast and accurate for a range of production requirements, including solder paste dots for passive components smaller than 0603, rework of BGA/QFN electrical connections, lines and patterns for RF shield attach, or unique patterns of conductive epoxy.



Nordson ASYMTEK

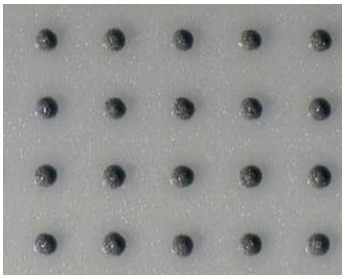
Specifications: SV-100

Dimensions (L x W x H): 154 x 50 x 30 mm
(without needle)
Fluid compatibility: solder pastes and conductive adhesives
Viscosity range: > 10,000 mPa
Minimum on time: 10 ms (one open and close)
Maximum on time: ∞ endless (continuous line dispensing)
Minimum off time: 10 ms
Maximum off time: ∞ endless
Dispense frequency: < 10 Hz
Maximum working pressure: 6 bar (86 PSI)
Ambient temperature range: + 15 to + 45 °C
Fluid temperature range: + 60 °C maximum
Standard orifice diameter: 400 µm,
other diameters on request
Estimated seal lifetime: 3,000,000 cycles*
Estimated valve seat lifetime: > 50,000,000 cycles*
Estimated piezoelectric drive lifetime: > 500,000,000 cycles
**Actual seal and valve seat lifetimes depend on fluid type used.*

Service

Offline cleaning: Takes about 15 minutes
Cleaning fluids: Do NOT use acetone. Use only solvents compatible with fluids being dispensed, as specified by material supplier
Consumable parts: Three reusable o-rings

SV-100



Above: Dot diameters slightly >0.3 mm, type 6, lead-free, Nordson EFD paste

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