

See-Flo 582

Meter-Mix Dispense System

Case Study: Battery Element Bonding



- Precise shot metering of two-component epoxy
- To bond battery elements to the case
- Multiple 'shots' in sequence without reload or delay
- 22 to 24 cc's per cell of mixed epoxy
- One dispense valve per cell, one meter
- Fixed mix ratio (1:1); continuous flow, no reload
- Disposable No-Flush mixer nozzles

Battery manufacturers bond battery elements into each cell. This automated battery cell application required a preset 'shot' of mixed epoxy - in rapid succession, into each of 6 battery cells.

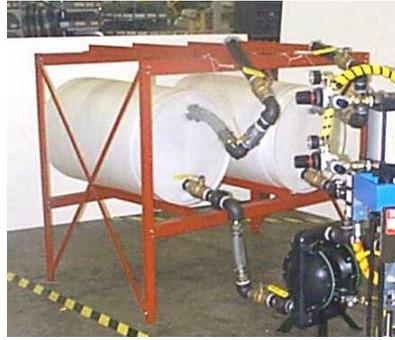
Total dispense time for a total of six (6) 22 cc shots is approximately 18 seconds per battery. The See-Flo 582 provides the right tool to accomplish the task because there is no reload between parts.

Coupled with the fixture and controls to integrate the process into the assembly process, the See-Flo 582 delivers reliable trouble-free metering for years to come.

The See-Flo 582 is also used for potting, doming, encapsulation, filter end cap, bonding, and mold making applications.



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Fixed Ratio

The See-Flo 582's mix ratio is fixed; it cannot be altered. Hence, no ratio adjustment is needed. Changing the ratio requires that a metering pump be replaced. The flow rate of dispense can be regulated.

Air Powered

Plant air is used to power the dispense system. The electrical controls include a SLC 500 PLC; 120 volt power is required.

Integrates

The dispense fixture is designed to be easily integrated into the existing dispense station. The valve is designed to be readily fixture. The can be integrated into your existing line or into the multiple dispense valve setup.

Snuf-Bak Dispense Valve

The 2200-250-000 dispense valve includes drill throughs for fixturing and mounting.

Solvent Free Operation

The valve's No-Flush disposable static mixer nozzle eliminates the need to solvent flush at the end of a shift. Simply remove and discard the used mixer

Manual Shot Control

The shot size control is easily adjusted manual control. The shot size amount that is dispensed is a function of the metering pumps on the system.

Shot controls are also available using 'timed' shots or precise shot volumes with the Program-A-Shot electronic control system

Optional Accessories

Shot Control

Electronically control the amount dispensed with the Program-A-Shot package. This package permits you to electronically store up to 60 different 'shot' volumes and then recall and dispense that amount on demand.

Material Supply

55 gallon drum racks for four 55 gallon drums with floor mounted transfer pumps to supply the meter with the resin and catalyst materials.

For more information, speak with your Nordson representative or contact your Nordson regional office.

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