Servo-Flo® 502

High Volume Electric Shot Meter Dispense System

- Motor, drive and meter are integrated into a single module for small footprint locations
- Integrated servo motor/drive package provides precise positioning and smooth motion for accurate flow control and material dispensing
- One-part shot metering provides positive displacement dispensing accuracy without the need for flow meters
- Remote mounted No-Drip®, Snuf-Bak™ or Tip-Seal™ material dispense valves are available for material dispensing applications
- Components are designed-for-maintenance to provide long life for maximum up-time and fast and easy maintenance

Servo-Flo 502 Shot Meter

Precision Metering Unit for Liquid Applied Sound Deadeners and High Viscosity Mastic Materials

The Servo-Flo® 502 is a positive-displacement, single-component, single-acting shot meter designed to produce a controlled flow of 1-component materials. Each meter is appropriately sized to provide the capacity requirements of individual applications, within the constraints of the design. The Servo-Flo 502 is supplied by high volume pumps and precisely meters the material to the selected dispense valve.

Typical Applications
- Body Shop mastic application systems
- Paint Shop water based sound deadener applications
- Robotic mounted dispense valve requirements
- Pedestal mounted dispense valve applications
The SERVO-FLO® 502 Meter consists of the following components:

- Servo Motor and Gear Reducer
- Roller Screw Linear Actuator
- Positive-displacement, Single-acting Metering Cylinder with
  - Positive Displacement Metering Rod and Seal Cartridge Assembly
- Heavy Duty Frame
- One Inlet Valve attached to the Metering Cylinder that controls the flow of non-metered Material from a Bulk Material Supply Source into the Metering Cylinder
- Two Sensors that detect over travel stroke positions of Meter
- One Solenoid Valve to control the opening and closing of the Inlet Valve
- One Rupture Disc Assembly that provides mechanical High-Pressure relief of excess pressure
- One Pressure Transducer to provide Material pressure feedback
- Safety Guarding around moving components

### Technical Information:

- **Product Number:** 2600-005 Series
- **Meter Type:** Single Acting Shot Meter
- **Maximum Volume:** 194 cu. in. (3,190 cc)
- **Floor Dimensions:** 24”w x 36”d x 106”h
- **Maximum Working Pressure:** 2,000 PSI
- **Nominal Relief Pressure:** 2,500 PSI
- **Linear Rod Travel per Motor Rev:** 0.75 mm

Form SF502-002 RevB