

AUGER VALVE AND CONTROLLER

Auger Valve is designed for dispensing applications which requires good volumetric accuracy. It incorporates a precision motor, which provides high and consistent torque to dispense medium to very high viscosity paste effortlessly. As a precision fluid dispensing valve, it is capable of dispensing micro shots as well as beads. This makes it a versatile tool for applications involving a wide range of adhesives, solder paste and epoxies (including greases and silicones). Auger Valve is highly suitable for applications like Die Attach, Sealing, Dotting and Encapsulation.

Features of Valve

- High Torque
- Stainless Steel Wetted Parts
- Different Screw Pitches (8, 16, 32)
- Easy Maintenance
- Accommodate Various Syringe Sizes
- Accommodate Standard Dispensing Needles
- Fast Start-up & Stop

Features of Controller

- Adjustable Reverse Time
- Adjustable Material Input Pressure
- User-friendly Programming
- Storage of up to 12 program parameters
- Activation by Foot Switch/Touch Screen
- Low-level Fluid Detection (Optional with external sensor required)
- Auto Calibration & Fine Tuning



Specifications

| Model No. | Auger Valve | | | |
|--|----------------------------------|-------------------------------|--------------------------------|--------------------------------|
| | AV200 | AV201 | AV202 | AV203 |
| Valve type | DC Servomotor Auger Valve | DC Servomotor Auger Valve | DC Servomotor Auger Valve | DC Servomotor Auger Valve |
| Fluid delivery pressure | 0.1 bar to 2 bar | 0.1 bar to 3 bar | 1 bar to 5 bar | 1 bar to 5 bar |
| Minimum shot size | Ø 0.3 mm | Ø 0.5 mm | Ø 1.0 mm | Ø 1.0 mm |
| Flow Rate (High Viscosity Material, 1,000,000 cps) | 20mg/sec using 8 pitch leadscrew | 50mg/sec | 100mg/sec w/o needle @ 300 rpm | 100mg/sec w/o needle @ 300 rpm |
| Driving part materials | | | | |
| Cylinder body | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |
| Wetted part materials | | | | |
| Auger Chamber | Hardened stainless steel | Hardened stainless steel | Hardened stainless steel | Tungsten Carbide |
| Seals | Viton / FKM / Fluorocarbon | Viton / FKM / Fluorocarbon | Viton / FKM / Fluorocarbon | Viton / FKM / Fluorocarbon |
| Connecting ports | | | | |
| Material inlet | 1/4"-28 UNF | 1/4"-28 UNF | 1/4"-28 UNF | 1/4"-28 UNF |
| Material outlet | Luer Lock Ring: Polypropylene | Luer Lock Ring: Polypropylene | Lock Nut | Lock Nut |
| Weight | 460g | 480g | 568g | 668g |