Fluidic Systems
Features and Benefits
- Linear Displacement Pump (LDP) - Double acting positive displacement rod pumps (Patented)
  • Continuous metered flow (virtually pulse-free) = Shorter Cycle Time
  • Three Component Variable Mix Ratio – 1:1:1 to 100:100:1 (+/-1%) = Long Term Utility
  • Dynamic flow rate control 1cc/min. to >gal/min. = Precision Flow Control
  • Viscosity range 1cps to heavy non-flow abrasive compounds = Universal Pump Utility
  • Pressure range 1psi to >3,000psi = Universal Pump Utility
  • No Pistons, Check Valves, Flow Meters = No Slip Factor, No Calibration, Reliability
  • Low shear = Density Integrity of Syntactic Compounds
- Cross-Over Valve (XV2) – Automated 4-way directional flow control valve (Patented)
  • Replaces check valves for load/dispense functions during LPD reciprocations = Reliability
  • Allows pressure balancing inlet/outlet pressures = Continuous Pulse-Free Metered Flow
- PLC Servo Motor Pump Drives Control
  • Enables Precision Mix Ratio, Flow Control and Factory Automated Control Functions
- Windows HMI Touch Screen
  • No Mechanical Control Adjustments, Statistical Process Reporting (SPR), Control Integrations, Diagnostic Troubleshooting, PM Monitoring, Remote Control Access

Applications
Adhesive/Sealants
Potting/Encapsulants
Paints/Coatings

Markets
General Industrial
Electrical/Electronic
Automotive
Military/Aerospace Industries.

Standard Features
- Linear Displacement Pumps (LDP)
- Cross-Over Valves (XV2)
- PLC Controlled Servo Drives
- Touch Screen Control Interface (6” Mono Chrome)
- Dispense Valve Gun
- Cabinet Casters
- Dispense Modes: Manual / Programmable
Technical Specifications

Mix ratio range A:B ...................................................1:1 to 100:100:1*
Mix ratio tolerance range ................................................................. ±1%*
Minimum shot size...........................................................0.5 g/0.018 oz)*
Minimum flow rate .......................................5 cc/min (0.17 fl.oz/min)*
Maximum flow rate ................................10,000 cc/min (2.7 gal/min)*
Maximum fluid working pressure ..................................... >3,000 psi*
Air supply pressure range.........5-8.5 kg/cm²(80-120 psi) @ 20 CFM
Operating temperature range ....................... 4 to 60 C (40 to 140 F)
Electrical requirements: .....................120 VAC (60 Hz) 1Φ, 25 amps
..................220 VAC (60 Hz) 1Φ, 25 amps
Wetted materials .303, 316 SS, TFE UHMWPE,anodized aluminum
Viscosity range of fluids ............1 cps to Non-flow abrasive comp.
Fluid Handled ..................................................One or two components
............(epoxies, urethanes, silicones, acrylics, polyesters)

*Application dependent