**PK2D**

2 Component Dispenser

Variable Mix Ratio

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**Features and Benefits**

- **Linear Displacement Pump (LDP)** - Double acting positive displacement rod pumps (Patented)
  - Continuous metered flow (virtually pulse-free) = Shorter Cycle Time
  - Two Component Variable Mix Ratio – 1:1 to 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

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**Applications**

Adhesive/Sealants
Potting/Encapsulants
Paints/Coatings

**Markets**

General Industrial
Electrical/Electronic
Automotive
Military/Aerospace Industries.

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**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
Optional Features
- Windows HMI 10” Color Touch Screen
- Customized HMI Control Screens. Statistical Process Reporting (SPR), Remote Access, Control Integrations, Diagnostic Troubleshooting, PM Monitoring
- Material Supply Sensors (MSS) – Inlet Material Sensors
- Liquid Level Sensors - Pressure Pots, Pails, Drums, Totes
- Auto Pressure Balancing – Inlet Supply / Outlet Dispense Pressures
- Static Mounted Dispense Valve - Foot Switch or Robotic Activation
- Robotic Integration – Start/Stop, Flow Control, Purge/Flush Control
- Type X Air Purge – Class I, Div1, Group D
- Duplex LDP Metering

Technical Specifications

Mix ratio range A:B .................................................................1:1 to 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, 20 amps
..................220 VAC (60 Hz) 1Φ, 10 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

Dimension Drawings for PK2D.
All dimensions are in inches (millimeters).

Dispense A

Feed A

Feed B

Dispense B

Dispense A&B

Material Supply – Pressure Pots / Transfer Pumps
- Signal Tower – LED Light/Audible Alarm
- Mobile Self Contained Platforms
- Overhead Jib Crane
- TFE SS Braided Hose Assemblies
- Thermostatic Controlled Heating Solutions

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