Features and Benefits

- Linear Displacement Pump (LDP) - Double acting positive displacement rod pumps (Patented)
  - Continuous metered flow (virtually pulse-free) = Shorter Cycle Time
  - 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 Benefits:
  - Enables Precision Mix Ratio, Flow Control and Factory Automated Control Functions

- Touch Screen Benefits:
  - No Mechanical Control Adjustments, Control Integrations

Standard Features

- Linear Displacement Pumps (LDP)
- Cross-Over Valves (XV2)
- PLC Controlled Servo Drive
- Touch Screen Control Interface (6” Mono Chrome)
- Dispense Valve Gun
- Floor Stand
- Dispense Modes: Manual / Programmable
Optional Features
- 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
- Material Supply – Pressure Pots / Transfer Pumps
- Signal Tower – LED Light/Audible Alarm
- Cabinet Surface Mount Brackets
- Overhead Jib Crane
- TFE SS Braided Hose Assemblies
- Thermostatic Controlled Heating Solutions

Dimension Drawings for PK1D.
All dimensions are in inches (millimeters).

Technical Specifications
Mix ratio range A:B - Fixed ratio: 1:1 2:1 4:1 10:1*
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: 5,000 cc/min (1.35 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, 15 amps
Wetted material: 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