

PK6D

6 LDP Pump System
Variable Mix Ratio



Features and Benefits

- Linear Displacement Pump (LDP) - Double acting positive displacement rod pumps (Patented)
 - Continuous metered flow (virtually pulse-free) = Shorter Cycle Time
 - Plural 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 (XV3) – 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



Applications

Adhesive/Sealants
Potting/Encapsulants
Paints/Coatings

Markets

General Industrial
Electrical/Electronic
Automotive
Military/Aerospace Industries.



- No Mechanical Control Adjustments, Statistical Process Reporting (SPR), Control Integrations, Diagnostic Troubleshooting, PM Monitoring, Remote Control Access



PK2D Animation



Standard Features

- Linear Displacement Pumps (LDP)
- Cross-Over Valves (XV3)
- PLC Controlled Servo Drives
- Touch Screen Control Interface - Windows HMI 12" Color Touch Screen
- Customized HMI Control Screens. Statistical Process Reporting (SPR), Remote Access, Control Integrations, Diagnostic Troubleshooting, PM Monitoring
- Dispense Valve Gun
- Cabinet Casters
- Dispense Modes: Manual / Programmable



Optional Features

- Windows HMI 12" 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

- 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



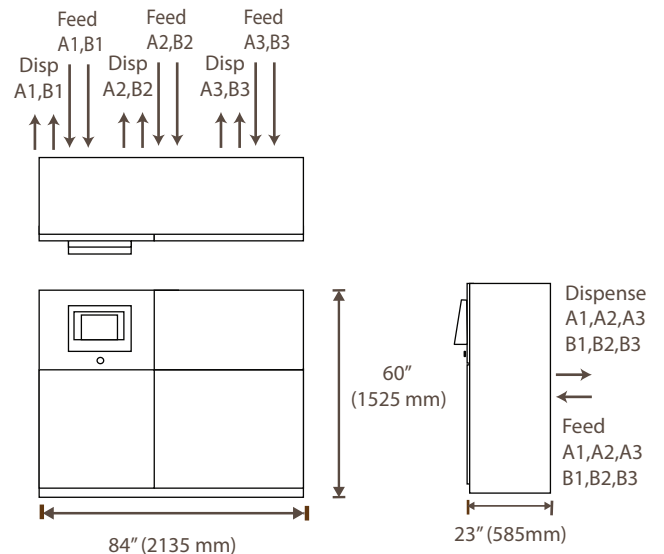
Technical Specifications

Mix ratio range A:B:C:D:E:F.....1:1:1:1:1:1 to 100:100:100:100:100:1*
 Mix ratio tolerance range ±1%*
 Minimum shot size.....0.5 g/0.018 oz)*
 Minimum flow rate5 cc/min (0.17 fl.oz/min)*
 Maximum flow rate10,000 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 fluids1 cps to Non-flow abrasive comp.
 Fluid HandledOne, two or multiple components
(epoxies, urethanes, silicones, acrylics, polyesters)

*Application dependent

Dimension Drawings for PK6D.

All dimensions are in inches (millimeters).



Fluidic
Systems

2655 S. Orange Avenue, Santa Ana, CA 92707-3738
 +1(714)556-6747
www.fluidicsystems.com
sales@fluidicsystems.com