

**WHITE LINE: EPOXY, URETHANES & COATING | FIXED RATIO SYSTEM EQUIPMENT**

**Patriot™ 1:1 Duo System**

MVP's Patriot 1:1 Duo System has been specifically designed to mix and dispense multiple 1:1 volumetric materials.



Description	Specifications	Options
<p>The Patriot™ Duo 1:1 System from Magnum Venus Products has been specifically designed to mix and dispense multiple 1:1 volumetric materials.</p> <p>Recognizing a need for such a system, MVP specifically designed the Duo 1:1 System to mix and dispense viscous materials through a gravity feed system that eliminates the need for a ram pump.</p> <ul style="list-style-type: none"> <li>• Highly consistent delivery of 1:1 volumetric materials</li> <li>• Precision metering</li> <li>• Ideal for dispensing silicone materials</li> <li>• Easy maintenance</li> </ul> <p><b>Several features of this new system are:</b></p> <ul style="list-style-type: none"> <li>• 1:1 fixed ratio fluid pumps</li> <li>• Precise Patriot™ metering technology</li> <li>• 15 gallon A + B polyethylene tanks for gravity feeding.</li> <li>• Easy maneuverability on cart mount model</li> <li>• Single trigger action to start/stop the spray flow</li> <li>• Easy low cost maintenance on gun</li> <li>• Reduced downtime for standard system maintenance with MVP's Rapid Access Design (RAD)</li> </ul>	<p><b>PATRIOT™ DUO 1:1 SYSTEM</b></p> <p><b>Pumping Ratio:</b> 15:1  <b>Mix Ratio:</b> 1:1  <b>Material Displacement (each fluid section):</b> 1.178 in<sup>3</sup>/stroke (19.30 c.c.)  <b>Avg. Air Consumption:</b> 10 to 15 CFM  <b>Hose Length:</b> 25 ft. (7.6 m)</p>	<ul style="list-style-type: none"> <li>• Robotic Option with Auto Pro Gun</li> <li>• Transfer Pumps</li> <li>• Heaters</li> <li>• Portable Carts</li> <li>• Booms</li> </ul>

**UPS-DUO Standard Volume**

Precise, proven metering technology. With true 1:1 delivery of Urethane, Epoxy, Silicone or Polyester materials, it is ideal for materials used in coating, adhesives, casting, and laminating resins.



Description	Specifications	Options
<p><b>The Standard Volume Duo Unit features:</b></p> <ul style="list-style-type: none"> <li>• Precise, proven metering technology</li> <li>• True 1:1 delivery of urethane, epoxy, silicone or polyester materials</li> <li>• Ideal for materials used in coatings, adhesives, casting and laminating resins</li> <li>• 1:1 Pro Gun</li> </ul>	<p><b>STANDARD VOLUME - DUO-54646</b></p> <p><b>Output Cap:</b> Depending on materials: 10 lbs-30 lbs per min.  <b>Avg. Air Consumption:</b> 10 to 15 CFM  <b>Mix Ratio:</b> 1:1  <b>Pump Ratio:</b> 8:1</p> <p><b>LOW VOLUME - DUO-52424</b></p> <p><b>Output Cap:</b> 5 lbs-20 lbs  <b>Avg. Air Consumption:</b> 10 to 15 CFM  <b>Mix Ratio:</b> 1:1  <b>Pump Ratio:</b> 15:1</p>	<ul style="list-style-type: none"> <li>• Heaters</li> <li>• Heated hose sets</li> <li>• Stainless steel fluid sections</li> <li>• Portable Carts</li> <li>• Booms</li> </ul>

## Universal Proportioner System

The Universal Proportioner System covers a wide application range for Epoxy and Urethane laminating resins and coatings.



### Description

The Universal Proportioner System is the latest mix/meter dispense system from Magnum Venus Products, which draws on technology that has been successfully used in MVP systems for over 50 years while incorporating many exciting new innovations.

This system covers a wide application range for Epoxy and Urethane laminating resin and coatings. The air motor drives a heavy duty rocker arm linkage drive which drives two double acting reciprocating piston pumps. The resin side is fixed and the hardener side is adjustable, using an upper and lower screw/clamp block to set the ratio range.

### Specifications

#### Fluid sections:

- UPLS-1000: 23.51 C.I./Cycle hardened seats or stainless steel
- UPLS-4600: 9.67 C.I. /Cycle hardened seats or stainless steel
- UPLS-2300: 4.82 C.I./Cycle stainless steel only
- UPLS-2400: 4.95 C.I./Cycle hardened cylinder only

#### Ratio:

With two of the same fluid section listed above: 1:1 to 3.1:1 by volume

- UPLS-1000 & UPLS-4600: 2.43:1 to 7.5:1
- UPLS-1000 & UPLS-2300: 4.8:1 to 15:1
- UPLS-4600 & UPLS-2300: 2:1 to 6:1

#### Powerhead:

At 100 psi supply air, run at 60 psi, 40 cycle/min.  
(10" - 45 to 50 SCFM) (7" - 20 to 25 SCFM)  
(5" - 10 to 15 SCFM)

### Options

- Pneumatic shot size control
- Heaters and heated hoses
- Auto Level Control
- Flow meters
- Gravity feed containers
- Pressure feed pumps
- Innovator Plus PLC Control Box

## Micro Pro Proportioner System

The Micro Pro Proportioner System is ideal for low flow rate metering.



### Description

The MicroPro Proportioner System is ideal for low flow rate metering of many epoxy, urethane and silicone materials, works with many application methods including spray, splatter, pour, RTM, and as a table-top proportioner, and is ideal for low or high pressure applications with material viscosity from 20cps to 40,000 cps.

### Specifications

- 5" Air Motor with Two VHPC-2200
  - Power Ratio: 24:1
  - Air Requirements: 60 psi at 40 cycles/min 5 to 10 SCFM
- 3.25" Air Motor
  - Power Ratio: 10:1
  - Air Requirements: 60 psi at 40 cycles/min 3 to 6 SCFM

#### Ratio:

- Two VHPC-2200: 1:1 to 3.7:1
- VHPC-2200 & VHPC-3200-ADH: 1.84:1 to 5.85:1
- VHPC-2200 & VHPC-4200: 4.15:1 to 13:1

#### Applications:

- Urethane: Gelcoat - Spray, Adhesive - Pour
- Urethane and Epoxy: RTM and LRTM
- Silicone Bags, Splatter Nozzle
- Quick Shot, Epoxy, and Urethane Table-Top Proportioner (*pour with mixer or two-stream*)

### Options

- Shot Size Controls
- Auto Level Control & Alarm
- In-line Resin Heaters & Heated Hoses
- Recirculation
- Innovator Control Box

## Mini Link Hydraulic System

MVP is pleased to offer the Mini Link Hydraulic System which is ideal for Composite Pultrusion manufacturers.



### Description

The Mini Link Hydraulic System features a hydraulic meter and cylinder to drive the metering system, delivers an extremely consistent mix/meter of materials at low flow rates, ideal for low & high pressure applications, and more.

- Two magnetic proximity switches for rapid pump reversal change
- Fluid sections are constructed from stainless steel
- Adjustable for ratio variations
- Automatic 1:1 Pro Gun

### Specifications

#### Ratio:

- Two VHPC-2200: 1:1 TO 3.7:1
- VHPC-2200 & VHPC-3200-ADH: 1.84:1 TO 5.85:1
- VHPC-2200 & VHPC-4200: 4.15:1 TO 13:1

**Metering Pumps:** 120 Volt, 22 amp or 220V single phase, 13.7 amp (voltage must be specified on order)

**Air Requirements:** 20 CFM at 100 psi of clean dry air

**Tanks:** 15-gallon (57 liter) gravity feed (max fill load, 12-gallons each)

**Flush Tank:** 3-gallon (11 liter) pressure tank

### Options

- In-line Resin Heaters & Heated Hoses