Spray Gun

Heat Jacket

Wax, sugar, syrup, and other viscous liquids thicken or solidify when atomized, making atomization difficult. The new Spray Gun Heat Jacket from Spraying Systems Co. keeps atomizing liquids warm to prevent thickening.

**Easy Installation**
The Spray Gun Heat Jacket simply slips over the body of a VMAU. Attach the Heat Jacket to a hot water or steam supply and it begins efficiently transferring heat to your atomizing liquid.

**Efficient Design Maximizes Heat Transfer to Prevent Clogging**
The Heat Jacket's patent-pending design heats not only the VMAU body but also the inlets and air cap. This maintains the liquid temperature through the spray gun.

The Heat Jacket's internal swirling action keeps fluid in motion, permitting uniform heat transfer.

**Reduces Downtime**
Traditional attempts to warm thick liquids involve cumbersome tubing or heat tracing, making a service in the field time-consuming. The new Spray Nozzle Heat Jacket can remain connected to the heat source while the actuator is removed for service, dramatically reducing downtime.

**Specifications**
- Easy slip-on and compact design for fast installation and cleaning
- Patent-pending design enables heat jacket to maintain liquid temperature throughout the entire nozzle — body, inlets, and air caps
- Remains connected to the heat source while the VMAU is serviced
- Connections: NPT liquid inlet and outlet
- FDA compliant material option
- Material Options: anodized aluminum, nickel plated brass, and 316 stainless steel. All three materials can be used with hot liquids, but only brass and stainless steel can be used with steam.

**Typical Applications**
- Viscous liquid spraying
- Adhesive coating
- Butter coating
- Chocolate coating
- Grease and oil
- Sugar coating
- Syrup coating
- Wax coating

**Benefits**
- Modular design offers the flexibility to fit various unique spray applications
- Maximizes uniform spray distribution
- Minimizes overspray
- Energy savings in adjustable fan air settings
- Decreases seal failure, bearding and plugging
- Reduces maintenance costs
- Easy access dramatically cuts cleaning and maintenance downtime
- Increases throughput
- Improves spray and product quality
- Easy change-over from model VAU to model VMAU
- Threadless sanitary design with no internal threads in the liquid chamber
VMAU Features and Benefits

Uniform Spray Distribution with Minimal Overspray

Independent Controls for Maximum Flexibility
The VMAU Automatic air atomizing spray guns feature individual controls of the liquid, atomizing air, and fan air allowing you to fine tune spray capacity, droplet size, and spray patterns. You can:

- Change liquid flow rates to increase or decrease the amount of product sprayed
- Adjust the atomizing air to affect the spray atomization without affecting the liquid flow rate
- Alter fan air from a round spray pattern to a flat spray pattern

Reduce Downtime and Maintenance Costs

Modular Design for Quick and Easy Maintenance
The VMAU’s patent-pending modular body and threadless fluid tip design are a revolutionary advance for reducing maintenance costs.

- No tools are needed for disassembling the VMAU spray gun. To replace the actuator, simply disconnect it, replace it with a back-up actuator, and you’re up and running in no time — without using any tools!
- The VMAU spray gun can be hand-piped and serviced without disconnecting the body.
- Should you develop a need for additional VMAU accessories in the future, upgrades are plug-and-spray. Your investment in the spray unit is secure.

Actuators Designed to Reduce Downtime Due to Failed Seals
All of the VMAU spray gun’s actuators have the liquid shut-off seal on the needle tip, allowing easy removal for cleaning maintenance. To better suit your needs there are two types of actuators to choose from: standard O-ring Actuator (single or double action) or an optional Diaphragm Actuator (double action).

- The O-ring Actuator is easy to maintain. Simply remove the actuator cylinder cap by hand and push the needle assembly out. The seals come right out with the assembly, allowing easy removal for cleaning and maintenance. There are no packing screws or retainers that require tools for removal.
- The Diaphragm Actuator replaces the conventional seals with a patented diaphragm design seal to minimize actuator seal failures. For applications in which seal failure is a major cause of downtime, such as spraying abrasives like sugar, wax, non-skid coating or film coating materials, the optional Diaphragm Actuator can reduce maintenance costs.

Designed to Minimize Plugging

- The VMAU has a built-in clean-out/shut-off needle that can automatically activate during each spray cycle for maximum protection against clogging.
- ½ inch connections provide larger free passage for air and liquid through the inlets.
- The VMAU is also available with larger sized orifices up to .10 to allow passage of larger solids through the fluid tip.

NOTE: For current VAU customers, the VMAU’s centerline distance and mounting thread is the same as the VAU, allowing easy changeover.
VMAU Features and Benefits

Uniform Spray Distribution with Minimal Overspray

Independent Controls for Maximum Flexibility
The VMAU Automatic air atomizing spray guns feature individual controls of the liquid, atomizing air, and fan air allowing you to fine tune spray capacity, droplet size, and spray patterns. You can:

- Change liquid flow rates to increase or decrease the amount of product sprayed
- Adjust the atomizing air to affect the spray atomization without affecting the liquid flow rate
- Alter fan air from a round spray pattern to a flat spray pattern

Baffling System for Uniform Spray Patterns
The VMAU uses a baffling system for supplying the atomizing and fan air. This system distributes both the fan and atomizing air equally, providing a more uniform spray pattern.

Threadless Fluid Tip for Sanitary Spray
The VMAU’s fluid cap is inserted into the body and sealed via two O-rings. The connection is completely threadless.

Air Cap Placement and Seal for Consistent Spray Patterns
The VMAU’s air cap is located on the fluid tip and is O-ring sealed. It offers a better alignment and a tight seal for a more consistent spray pattern.

Wide Range of Spray Set-ups to Meet Specific Requirements
Available in a wide range of spray set-ups the VMAU allows you to select the set-up that will best suit your needs. With less fan air pressure, you can achieve the spray you require while reducing production costs and overspray.

Reduce Downtime and Maintenance Costs

Modular Design for Quick and Easy Maintenance
The VMAU’s patent-pending modular body and threadless fluid tip design are a revolutionary advance for reducing maintenance costs.

- No tools are needed for disassembling the VMAU spray gun. To replace the actuator, simply disconnect it, replace it with a back-up actuator, and you’re up and running in no time — without using any tools!
- The VMAU spray gun can be hand-piped and serviced without disconnecting the body.
- Should you develop a need for additional VMAU accessories in the future, upgrades are plug-and-spray. Your investment in the spray unit is secure.

Actuators Designed to Reduce Downtime Due to Failed Seals
All of the VMAU spray gun’s actuators have the liquid shut-off seal on the needle tip, allowing easy removal for cleaning maintenance. To better suit your needs there are two types of actuators to choose from: standard O-ring Actuator (single or double action) or an optional Diaphragm Actuator (double action).

- The O-ring Actuator is easy to maintain. Simply remove actuator cylinder cap by hand and push the needle assembly out. The seals come right out with the assembly, allowing easy removal for cleaning and maintenance. There are no packing screws or retainers that require tools for removal.
- The Diaphragm Actuator replaces the conventional seals with a patented diaphragm design seal to minimize actuator seal failures. For applications in which seal failure is a major cause of downtime, such as spraying abrasives like sugar, wax, non-skid coating or film coating materials, the optional Diaphragm Actuator can reduce maintenance costs.

Designed to Minimize Plugging

- The VMAU has a built-in clean-out/shut-off needle that can automatically activate during each spray cycle for maximum protection against clogging.
- ¼ inch connections provide larger free passage for air and liquid through the inlets.
- The VMAU is also available with larger sized orifices up to .10 to allow passage of larger solids through the fluid tip.

NOTE: For current VAU customers, the VMAU’s centerline distance and mounting thread is the same as the VAU, allowing easy changeover.
VMAU Components

Standard Set-ups

The VMAU can utilize any of eight different spray set-ups that provide flow rates ranging from .74 gph (2.8 l/h) to 73 gph (276 l/h). The following chart provides liquid capacity data for each of the available set-ups. Refer to the data sheets, available through your local Spraying Systems Co. sales office, for additional details and spray performance data.

NOTE: Spray set-ups are interchangeable, however each set-up uses a different size needle.

Interchangeable Spray Set-ups

<table>
<thead>
<tr>
<th>Spray Set-up Number</th>
<th>Liquid Capacity</th>
<th>GPH</th>
<th>l/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUVM67A-SS</td>
<td></td>
<td>.74</td>
<td>2.80</td>
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<tr>
<td>SUVM67B-SS</td>
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<td>1.10</td>
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<td>SUVM113A-SS</td>
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<td>4.90</td>
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<tr>
<td>SUVM189-SS</td>
<td></td>
<td>28.00</td>
<td>106.00</td>
</tr>
</tbody>
</table>

Actuator Options

To customize your VMAU set-up to suit your specific application, Spraying Systems Co. offers:

- O-ring sealed actuators, both single and double action models
- Diaphragm-sealed actuator for applications where failure of conventional seals is a problem
- A Back Plug (VAA Type) option, for applications not requiring actuator

Anti-Bearding Set-up

Frequent shut downs to clean coating material from air atomizing spray gun components have a serious impact on productivity.

The new VMAU anti-bearding spray set-up can help to improve process quality, volume, and profitability in these situations.

In typical air atomizing coating applications such as aqueous film coating, the low-pressure zone created by the exiting air draws a few fine droplets back to the air cap. These droplets are deposited on the air cap face, dry, and build-up in layers causing bearding. Bearding can block liquid and air orifices, resulting in a distorted spray distribution. Frequent cleaning is necessary to ensure coating quality.

The new VMAU anti-bearding spray set-up has a modified air cap and fluid cap tip design that changes the point of atomization and spray formation. These changes prevent the droplets from being deposited onto the air cap.

Benefits

- Significantly reduces bearding and clogging on spray gun components
- Dramatically cuts cleaning and maintenance downtime
- Increases throughput
- Improves spray and product quality
- Easily replaces existing set-ups

Specifications

Compatible with all standard Spraying Systems Co. VMAU automatic air atomizing assemblies

The shut-off seal is on the needle, not in the tip, for easy cleaning and replacement

FDA compliant material

Body Styles — Standard and Sanitary

Standard Body Style

Optional Sanitary Body Style

Specifications

O-ring Actuator (standard)

FDA compliant material

nPT or BSPT inlet connections

Threadless connection for the fluid tip

nPT air connections

Recirculating models

Material Options: 303 stainless steel, 316 stainless steel

Specifications

The patented sanitary body contains no internal threads in the liquid chamber

Sanitary connection diaphragm sealed actuator — there are no cavities, no O-rings

FDA compliant material

Sanitary liquid inlet connections

Sanitary connection for the fluid tip

Sanitary or NPT air connections

Recirculating models

Material Options: 303 stainless steel, 316 stainless steel
VMAU Components

Standard Set-ups
The VMAU can utilize any of eight different spray set-ups that provide flow rates ranging from .74 gph (2.8 l/h) to 73 gph (276 l/h). The following chart provides liquid capacity data for each of the available set-ups. Refer to the data sheets, available through your local Spraying Systems Co. sales office, for additional details and spray performance data.

NOTE: Spray set-ups are interchangeable, however each set-up uses a different size needle.

Interchangeable Spray Set-ups

<table>
<thead>
<tr>
<th>Spray Set-up Number</th>
<th>GPH @ 3 psi</th>
<th>GPH @ 20 psi</th>
<th>GPH @ .2 bar</th>
<th>GPH @ 1.4 bar</th>
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<td>106.00</td>
<td>276.00</td>
<td>52530-008</td>
</tr>
</tbody>
</table>

Anti-Bearding Set-up
Frequent shut downs to clean coating material from air atomizing spray gun components have a serious impact on productivity. The new VMAU anti-bearding spray set-up can help to improve process quality, volume, and profitability in these situations.

In typical air atomizing coating applications such as aqueous film coating, the low-pressure zone created by the exiting air draws a few fine droplets back to the air cap. These droplets are deposited on the air cap face, dry, and build-up in layers causing bearding. Bearding can block liquid and air orifices, resulting in a distorted spray distribution. Frequent cleaning is necessary to ensure coating quality.

The new VMAU anti-bearding spray set-up has a modified air cap and fluid cap tip design that changes the point of atomization and spray formation. These changes prevent the droplets from being deposited onto the air cap.

O-ring Sealed Actuators
The VMAU’s O-ring sealed actuator is available in both single action (spring-return) and double action (springless) models. The actuator can be disassembled without tools for easy cleaning and maintenance.

Diaphragm Actuator
Failure of conventional seals is a major problem when working with harsh materials and environments, such as applying sugar, wax, non-skid coating, and film coating. The VMAU’s Diaphragm Actuator eliminates these failures by replacing conventional seals with a patented diaphragm design to seal the shut-off/clean-out needle. No “O” rings, packing, or interference seals on the needle mean reduced downtime.

Actuator Options
To customize your VMAU set-up to suit your specific application, Spraying Systems Co. offers:
- O-ring sealed actuators, both single and double action models
- Diaphragm-sealed actuator for applications where failure of conventional seals is a problem
- A Back Plug (VAA Type) option, for applications not requiring actuator

Body Styles — Standard and Sanitary

Standard Body Style

Optional Sanitary Body Style

Specifications

- O-ring Actuator (standard)
- FDA compliant material
- \( \times \) NPT or BSPT inlet connections
- Threadless connection for the fluid tip
- \( \times \) NPT air connections
- Recirculating models

Material Options: 303 stainless steel, 316 stainless steel

Sanitary connection diaphragm sealed actuator — there are no cavities, no O-rings
- FDA compliant material
- Sanitary liquid inlet connections
- Sanitary connection for the fluid tip
- Sanitary or NPT air connections
- Recirculating models

Material Options: 303 stainless steel, 316 stainless steel

Specifications

- O-ring Actuator (standard)
- FDA compliant material
- \( \times \) NPT or BSPT inlet connections
- Threadless connection for the fluid tip
- \( \times \) NPT air connections
- Recirculating models

Material Options: 303 stainless steel, 316 stainless steel

Specifications

- O-ring Actuator (standard)
- FDA compliant material
- \( \times \) NPT or BSPT inlet connections
- Threadless connection for the fluid tip
- \( \times \) NPT air connections
- Recirculating models

Material Options: 303 stainless steel, 316 stainless steel
## VMAU Ordering Information

### Standard and Sanitary Body

- **1/4VMAU-XX**: 1/4 NPT connections
- **B1/4VMAU-XX**: 1/4 BSPT connections
- **S1/4VMAU-XX**: Sanitary fluid connections and 1/4 NPT air connections
- **SB1/4VMAU-XX**: Sanitary fluid connections and 1/4 BSPT air connections

XX = Material code

SS = 303 Stainless Steel or 316SS = 316 Stainless Steel

### Spray Set-up

- **Standard**
  - Spray set-up
  - NPT connections
  - BSPT connections

- **Anti-bearding**
  - Spray set-up
  - NPT connections
  - BSPT connections

XX = Material code

SS = 303 Stainless Steel or 316SS = 316 Stainless Steel

### Body Ordering Sample

<table>
<thead>
<tr>
<th>1/4VMAU - 316SS</th>
<th>Model #</th>
<th>Material Code</th>
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</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Note: body, actuator, and spray set-up must be ordered separately.

### O-ring Sealed Actuator - Single Action

**Actuator Assembly Ordering Sample**

<table>
<thead>
<tr>
<th>Actuator Style</th>
<th>Actuator Endcap</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>52511</td>
<td>304</td>
<td>316SS</td>
</tr>
</tbody>
</table>

### O-ring Sealed Actuator - Double Action

**Diaphragm Actuator - Double Action**

<table>
<thead>
<tr>
<th>Standard Spray</th>
<th>NPT Style</th>
<th>BSPT Style</th>
<th>Material Code</th>
</tr>
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</tbody>
</table>

**Anti-Bearding Spray**

<table>
<thead>
<tr>
<th>Standard Spray</th>
<th>NPT Style</th>
<th>BSPT Style</th>
<th>Material Code</th>
</tr>
</thead>
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<td>52511</td>
<td>208</td>
<td>208</td>
<td>XX (189)</td>
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</tbody>
</table>

XX = Material code

SS = 303 Stainless Steel or 316SS = 316 Stainless Steel

### Diaphragm Material Options

- CP52515-001-XX: XX = Material code
- SS = 303 Stainless Steel or 316SS = 316 Stainless Steel
- SIL = Silicone (FDA compliant)
- NBN = Nitrile/Buna-N (FDA compliant)
- EPR = EPDM

### Backplug Ordering Sample

<table>
<thead>
<tr>
<th>CP52505-001 - 316SS</th>
<th>Backplug Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP52505-001-XX</td>
<td>XX = Material code</td>
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<tr>
<td>SS = 303 Stainless Steel or 316SS = 316 Stainless Steel</td>
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</table>

### Heat Jacket Ordering Sample

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<thead>
<tr>
<th>51120-VMAU-XX</th>
<th>Heat Jacket Material Code</th>
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</thead>
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<tr>
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<td></td>
</tr>
<tr>
<td>ALA = Anodized Aluminum</td>
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</tbody>
</table>

### Actuator Assembly Ordering Sample

<table>
<thead>
<tr>
<th>Actuator Style</th>
<th>Actuator Endcap</th>
<th>Material Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>52511</td>
<td>304</td>
<td>316SS</td>
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</table>

### Diaphragm Ordering Sample

<table>
<thead>
<tr>
<th>CP52515-001-XX</th>
<th>Diaphragm Material Code</th>
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<tbody>
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<td>XX = Material code</td>
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<tr>
<td>SS = 303 Stainless Steel or 316SS = 316 Stainless Steel</td>
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</table>

### Heat Jacket Ordering Sample

<table>
<thead>
<tr>
<th>51120-VMAU-XX</th>
<th>Heat Jacket Material Code</th>
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<tbody>
<tr>
<td>51120</td>
<td>XX = Material code</td>
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<tr>
<td>SS = 303 Stainless Steel or 316SS = 316 Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>ALA = Anodized Aluminum</td>
<td></td>
</tr>
</tbody>
</table>

**Note**: body, actuator, and spray set-up must be ordered separately.
### VMAU Ordering Information

#### Standard and Sanitary Body
- 1/4"NPT connections
- 1/4" BSPT connections
- Sanitary fluid connections and 1/4" NPT air connections
- Sanitary fluid connections and 1/4" BSPT air connections

#### Spray Set-up
- Standard spray set-up
- Anti-bearding spray set-up

#### Body Ordering Sample
- 1/4VMAU – 316SS

#### O-ring Sealed Actuator - Single Action
- Standard
- Spray Style
- Material
- Corresponding Code
- Spray Set-up

#### Diaphragm Actuator - Double Action
- Standard
- Spray Style
- Material
- Corresponding Code
- Spray Set-up

#### Diaphragm Material Options
- CP52515-001-XX
- XX = Material code
- SIL = Silicone (FDA compliant)
- NBN = Nitrile/Buna-N (FDA compliant)
- EPR = EPDM

#### Backplug Ordering Sample
- CP52505-001 – 316SS

#### Heat Jacket Ordering Sample
- 51120-VMAU-XX
- XX = Material code
- 316SS = 316 Stainless Steel
- ALA = Anodized Aluminum
Spray Gun

Heat Jacket

Wax, sugar, syrup, and other viscous liquids thicken or solidify when cooled, making atomization difficult. The new Spray Gun Heat Jacket from Spraying Systems Co. keeps atomizing liquids warm to prevent thickening.

Benefits
- Modular design offers the flexibility to fit various unique spray applications
- Maximizes uniform spray distribution
- Minimizes overspray
- Energy savings in adjustable fan air settings
- Decreases seal failure, bearding and plugging
- Reduces maintenance costs
- Easy access dramatically cuts cleaning and maintenance downtime
- Increases throughput
- Improves spray and product quality
- Easy change-over from model VAU to model VMAU
- Threadless sanitary design with no internal threads in the liquid chamber

Typical Applications
- Viscous liquid spraying
- Grease and oil
- Butter coating
- Sugar coating
- Chocolate coating
- Wax coating

Specifications
- Easy slip-on and compact design for fast installation and cleaning
- Patent pending design enables heat jacket to maintain liquid temperature throughout the entire nozzle — body, inlets, and air caps
- Remains connected to the heat source while the VMAU is serviced
- Connections: NPT liquid inlet and outlet
- FDA compliant material option
- Material Options: anodized aluminum, nickel plated brass, and 316 stainless steel. All three materials can be used with hot liquids, but only brass and stainless steel can be used with steam.

NEW Variable Automatic Spray Gun
with modular designed components provides solutions to your most demanding spray application challenges.

Spraying Systems Co.
Experts in Spray Technology

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