Binks Gemini II Diaphragm Pumps are the premier pumps for spraying, transferring, or circulating a variety of coatings. The pump design provides consistent spray patterns for high quality finish applications. The Gemini II pumps are rugged and designed to provide longer pump life.

**Applications**
The Binks Gemini II Diaphragm Pumps are ideal for a variety of materials and viscosities. Gemini II pumps can be used in applications including Wood, General Metal Fabrication, and Adhesives.

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**Up to 38% More Fluid Delivery Per Stroke**
Longer equipment life and lower maintenance costs

**Short Stroke Pump Specifically Designed for Spraying Applications**
Pulsation reduction is greater than competition

**Customized Pump Packages**
Design a pump package for a specific application

**Pump Outfits with Trophy Guns**
Trophy guns available with a new lightweight and ergonomic design

**5-Year Limited Product Warranty**
The finishing industry’s best warranty
Binks new Gemini II Diaphragm Pump Series builds on the proven and successful product line for circulating, transferring and spraying a variety of coatings. On average, the new and improved units deliver more fluid per stroke than previous models, up to:

- **More**
  - 33% [½” pumps]
  - 38% [1” pumps]
  - 28% [1½” pumps]

**ADVANTAGES OF THE GEMINI II**

- **Pumps Shear-Sensitive Materials**
  - Low internal velocities and gentle pumping action does not shear coatings

- **Pumps High to Low Viscosity Materials**

- **Seal-Less**
  - No mechanical seals or packing to leak

- **Runs Dry Without Damage or Heat Build-up**
  - No internal damage

- **Variable Flow and Pressure**
  - Regulate the inlet air supply to adjust the pump flow from zero to maximum rated capacity

- **Fully Groundable**

- **CE and ATEX Certified**

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**GEMINI II PUMPS FEATURE A DOUBLE DIAPHRAGM DESIGN,**

PROVIDING A 1:1 FLUID RATIO TO COMPRESSED AIR SUPPLY.

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*Average percent flow rate difference when compared to Binks Gemini I at 100 PSI air inlet*
INCREASED FLOW RATE

MORE COATING VERSATILITY

Use the adaptability of the Gemini II pumps to fill many of your fluid handling requirements including:

- Adhesives
- Catalyzed Varnish
- Special Coatings
- Paints
- Resins
- Stains
- Solvents
Binks has added a Low Pulse Double Diaphragm pump model to the Gemini II series. The new Short Stroke pump has an optimized diaphragm design and reduction in stroke length to provide efficient pump changeover.

- Consistent spray pattern for high quality finish applications
- Pulsation reduction is greater than the competition and the Gemini I pump series
- Bonded diaphragm has increased durability

MULTIPLE MOUNTING CONFIGURATIONS:

WALL • PAIL • DRUM

- Options to customize for your specific applications

Shown: 41-818831 ½” Conductive Acetal Body
Gemini™ II

PUMP PACKAGES

Customize a Pump Package for Your Specific Application

Ordering Information
Select your mounting option. Then select the desired attributes from the chart below ("A" through "F" option) and build the Binks Gemini II system number that meets your particular production needs (½" pumps only).

Select Your Mounting Options
P = Pail
W = Wall
D = Drum

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEM2-P</td>
<td>2</td>
<td>D</td>
<td>1</td>
<td>D</td>
<td>6</td>
</tr>
</tbody>
</table>

A  PUMP
1 = ½" Acetal 41-818836
2 = ½" Acetal Short Stroke 41-818831
3 = ½" Stainless Steel 41-818830

B  AIR CONTROL
0 = None
S = Single Air Control 41-718805
D = Dual Air Control 41-718806

C  BYPASS
0 = None
1 = Bypass Filter/Pulse Assembly Pail or Drum Mount 41-718812-1
2 = Bypass Filter/Pulse Assembly 5 Gallon Wall Mount 41-718812-2
3 = Bypass Filter/Pulse Assembly 55 Gallon Wall Mount 41-718812-3

D  AGITATOR
0 = None
D = Stainless Steel Direct Drive 41-3312-S
G = Stainless Steel Gear Reduced Drive (Drum Mount Only) 31-400

E  SIPHON
0 = None
1 = Polypropylene Siphon Tube, Drum Mount 41-718813-33
2 = Polypropylene Siphon Tube, Pail Mount 41-718813-12
3 = Polypropylene Suction Hose Assembly Wall Mount 5 Gallon 41-718818-5
4 = Polypropylene Suction Hose Assembly Wall Mount 55 Gallon 41-718818-55
5 = Stainless Steel Siphon Tube, Drum Mount 41-718817-33
6 = Stainless Steel Siphon Tube, Pail Mount 41-718817-12
7 = Stainless Steel Suction Hose Assembly Wall Mount 5 Gallon 41-718819-5
8 = Stainless Steel Suction Hose Assembly Wall Mount 55 Gallon 41-718819-55

F  FLUID REGULATOR
0 = None
1 = Stainless Steel Fluid Regulator 84-320

---

WHICH GEMINI IS RIGHT FOR YOU?

Don’t know which Gemini is best for your operation?
Answer these questions, then contact your distributor or call us at 800-992-4657 to help you select your pump.

1. What is your desired flow rate?
2. What are the characteristics of the fluid?
3. What is your application?
### Pail Mount Outfit GEM2-P2D1060 Includes

- ½" Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly

<table>
<thead>
<tr>
<th>Gemini II Outfit #</th>
<th>Spray Gun Part #</th>
<th>Spray Gun Description</th>
<th>Pump Package Part #</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-3200</td>
<td>2465-14HV-32S0</td>
<td>Trophy HVLP 1.4 mm, SS Needle</td>
<td>GEM2-P2D1060</td>
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<tr>
<td>98-3201</td>
<td>2101-3100-0</td>
<td>Model 2101, CONV, 1.4 mm</td>
<td>GEM2-P2D1060</td>
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<tr>
<td>98-3202</td>
<td>2465-14lv-23S0</td>
<td>Trophy LVMP 1.4 mm, SS Needle</td>
<td>GEM2-P2D1060</td>
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<td>98-3203</td>
<td>2465-12HV-32S0</td>
<td>Trophy HVLP 1.2 mm, SS Needle</td>
<td>GEM2-P2D1060</td>
</tr>
<tr>
<td>98-3204</td>
<td>2101-0000-0</td>
<td>Model 2101, CONV, 1.0 mm</td>
<td>GEM2-P2D1060</td>
</tr>
</tbody>
</table>

### Pail Mount Outfit with Agitator GEM2-P2D1D60 Includes

- ½" Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly, Agitator

<table>
<thead>
<tr>
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<td>Trophy HVLP 1.4 mm, SS Needle</td>
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<tr>
<td>98-3201</td>
<td>2101-3100-0</td>
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<td>98-3202</td>
<td>2465-14lv-23S0</td>
<td>Trophy LVMP 1.4 mm, SS Needle</td>
<td>GEM2-P2D1D60</td>
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<tr>
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<td>2465-12HV-32S0</td>
<td>Trophy HVLP 1.2 mm, SS Needle</td>
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<tr>
<td>98-3204</td>
<td>2101-0000-0</td>
<td>Model 2101, CONV, 1.0 mm</td>
<td>GEM2-P2D1D60</td>
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</tbody>
</table>

### Wall Mount Outfit GEM2-W2D2070 Includes

- ½" Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly, 5-Gal Siphon

<table>
<thead>
<tr>
<th>Gemini II Outfit #</th>
<th>Spray Gun Part #</th>
<th>Spray Gun Description</th>
<th>Pump Package Part #</th>
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<tbody>
<tr>
<td>98-3210</td>
<td>2465-14HV-32S0</td>
<td>Trophy HVLP 1.4 mm, SS Needle</td>
<td>GEM2-W2D2070</td>
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<tr>
<td>98-3211</td>
<td>2101-3100-0</td>
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<td>GEM2-W2D2070</td>
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<tr>
<td>98-3212</td>
<td>2465-14lv-23S0</td>
<td>Trophy LVMP 1.4 mm, SS Needle</td>
<td>GEM2-W2D2070</td>
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<tr>
<td>98-3213</td>
<td>2465-12HV-32S0</td>
<td>Trophy HVLP 1.2 mm, SS Needle</td>
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<tr>
<td>98-3214</td>
<td>2101-0000-0</td>
<td>Model 2101, CONV, 1.0 mm</td>
<td>GEM2-W2D2070</td>
</tr>
</tbody>
</table>

### Wall Mount Outfit GEM2-W2D3080 Includes

- ½" Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly, 55-Gal Siphon

<table>
<thead>
<tr>
<th>Gemini II Outfit #</th>
<th>Spray Gun Part #</th>
<th>Spray Gun Description</th>
<th>Pump Package Part #</th>
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<tbody>
<tr>
<td>98-3215</td>
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<td>Trophy HVLP 1.4 mm, SS Needle</td>
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<td>2465-14lv-23S0</td>
<td>Trophy LVMP 1.4 mm, SS Needle</td>
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</tr>
<tr>
<td>98-3219</td>
<td>2101-0000-0</td>
<td>Model 2101, CONV, 1.0 mm</td>
<td>GEM2-W2D3080</td>
</tr>
</tbody>
</table>
Add a TROPHY New to Your Gemini™ II Pump

The new Binks Trophy Series line of spray guns offer unparalleled robustness for industrial coating and finishing requirements.

Anatomy of a Champion

Balanced and uniform pressure and distribution inside the air cap produces uniform particle distribution.

Atomization passages have been designed for efficient and uniform air flow.

One stainless steel needle for all fluid nozzles reduces inventory.

Tuff Tip hardened fluid nozzles last longer.

Optional Air cap pin available for air cap positioning.

Easy-grip air cap ring for easy removal and installation.

Stainless steel fluid passages for wide variety of materials.

Self adjusting long-life needle packing.

Stabilizer trigger for light and smooth operation.

Optional cheater valve available.

Combined with our comprehensive and compatible fluid nozzle and needles – including our hardened stainless steel Tuff Tip, plastic needle tips, and tungsten carbide – Trophy series spray equipment is fully capable of spraying the widest range of materials and viscosities.

Trophy series is available in multiple configurations to meet your application needs.

Spring pad for quiet spring operation. Optional heavy duty spring available.

No kick back during triggering.

Large air passages provide better air flow.

Trophy series is available in multiple configurations to meet your application needs.

PRESSURE FEED GRAVITY FEED SIPHON FEED

AIR CAP
- HVLP, LVMP, Conventional
- Three spray technologies can be used on the same gun platform

HVLP LVMP CONVENTIONAL
Specifications

Gemini II Pumps

<table>
<thead>
<tr>
<th>Part #</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-818836</td>
<td>¼&quot; Acetal</td>
</tr>
<tr>
<td>41-818831</td>
<td>½&quot; Acetal Short Stroke</td>
</tr>
<tr>
<td>41-818830</td>
<td>½&quot; Stainless</td>
</tr>
<tr>
<td>41-818820</td>
<td>1&quot; Aluminum</td>
</tr>
<tr>
<td>41-818822</td>
<td>1&quot; Stainless</td>
</tr>
<tr>
<td>41-818823</td>
<td>1 ½&quot; Stainless</td>
</tr>
</tbody>
</table>

Air Inlet Pressure Range
- 0-100 PSI (0-100 PSI)
- 0-125 PSI (0-125 PSI)
- 0-125 PSI (0-125 PSI)
- 0-125 PSI (0-125 PSI)
- 0-125 PSI (0-125 PSI)

Air Inlet Size
- ¼" NPT
- ¼" NPT
- ½" NPT
- ½" NPT
- ½" NPT

Max Fluid Pressure
- 100 PSI (6.9 bar)
- 125 PSI (8.6 bar)
- 125 PSI (8.6 bar)
- 125 PSI (8.6 bar)
- 125 PSI (8.6 bar)

Fluid Inlet/Outlet
- ½" NPT
- ½" NPT
- ½" NPT
- 1" NPT
- 1" NPT
- 1 ½" NPT

Max Flow Rate
- 14 gpm (52 lpm)
- 7.5 gpm (28 lpm)
- 14 gpm (52 lpm)
- 45 gpm (170 lpm)
- 45 gpm (170 lpm)
- 106 gpm (401 lpm)

Maximum Suction Lift
- 13 ft (3.9 m)
- 8 ft (2.4 m)
- 12 ft (3.6 m)
- 17 ft (5.1 m)
- 17 ft (5.1 m)
- 22 ft (6.7 m)

Max Particle Size
- .125" (3 mm)
- .125" (3 mm)
- .125" (3 mm)
- .25" (6 mm)
- .25" (6 mm)
- .25" (6 mm)

Max Temperature Limits
- 180 F (82 C)
- 180 F (82 C)
- 220 F (104 C)
- 220 F (104 C)
- 220 F (104 C)
- 220 F (104 C)

Flow @ 60 Cycles/Min
- 3.12 gal (11 liters)
- 1.68 gal (6 liters)
- 3.12 gal (11 liters)
- 13.2 gal (50 liters)
- 13.2 gal (50 liters)
- 49.2 gal (186 liters)

Cycles Per Gallon
- 19.2
- 35.7
- 19.2
- 4.5
- 4.5
- 1.2

Displacement Per Cycle
- .052 gpm (.196 lpm)
- .028 (.105 lpm)
- .052 gpm (.196 lpm)
- .22 gpm (.84 lpm)
- .22 gpm (.84 lpm)
- .82 gpm (3.0 lpm)

Noise Level With Muffler
- 84 dBA Max
- 92 dBA Max
- 86 dBA Max
- 92 dBA Max
- 92 dBA Max
- 95 dBA Max

Weights
- 14 lbs (6.4 kg)
- 14 lbs (6.4 kg)
- 21 lbs (9.5 kg)
- 28 lbs (12.7 kg)
- 43 lbs (19.5 kg)
- 95 lbs (43.0 kg)

Repair Kits:

- Air End Seal Kit: 41-718850
- Diaphragm Kit: 41-718853
- Ball & Seal Kit: 41-718854
- Operation Manual: 77-2998

- Bypass Filter/Pulse Assembly Wall Mount: 41-718812-3
- Bypass Filter/Pulse Assembly Wall Mount: 41-718812-4
- Bypass Filter/Pulse Assembly Wall Mount: 41-718812-5

- Bypass Filter/Pulse Assembly Pail or Drum Mount: 41-718812-1
- Bypass Filter/Pulse Assembly Pail or Drum Mount: 41-718812-2

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