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.

**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

finishingbrands.com
GEMINI II Double Diaphragm Pumps

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*:

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

**GEMINI II PUMPS FEATURE A DOUBLE DIAPHRAGM DESIGN,**
**PROVIDING A 1:1 FLUID RATIO TO COMPRESSED AIR SUPPLY.**

---

*Average percent flow rate difference when compared to Binks Gemini I at 100 PSI air inlet*
Pump wide range of viscosities and volumes

Inlet and Outlet Ports rotate on 90° increments (½" acetal pump only)

Positive Priming check valves meet wide range of fluid handling requirements

PTFE Diaphragms with TPE backup

Durable Diaphragm connecting rod

Externally Serviceable pilot and main valve while pump is installed

Variable Delivery Rate adjusts air pressure from 0-100 PSI to achieve desired flow rate

Groundable Acetal body

All Bolted construction

FIVE YEAR LIMITED PRODUCT WARRANTY

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

INCREASED FLOW RATE

Shown: ½" Acetal Pump (41-818836)
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
¼” Conductive Acetal Body

27% More Fluid Per Stroke
than Gemini I pump series

Wall Mount
GEM2-W2D0080

Pail Mount
GEM2-P2D1080

Drum Mount
GEM2-D2D0250
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

1" GEMINI II DIAPHRAGM PUMP PACKAGES

<table>
<thead>
<tr>
<th>Part #</th>
<th>Package Contains</th>
</tr>
</thead>
<tbody>
<tr>
<td>41-818120</td>
<td>1&quot; Aluminum Gemini II Pump Wall Mount Dual Air Control Fluid Regulator</td>
</tr>
<tr>
<td>41-818121</td>
<td>1&quot; Stainless Steel Gemini II Pump Wall Mount Dual Air Control Fluid Regulator</td>
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</table>

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>
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<tr>
<td>98-3204</td>
<td>2101-0000-0</td>
<td>Model 2101, CONV, 1.0 mm</td>
<td>GEM2-P2D1060</td>
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Pail Mount Outfit GeM2-P2D1060 Includes
½” Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly, Agitator

<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>98-3205</td>
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<tr>
<td>98-3206</td>
<td>2101-3100-0</td>
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<tr>
<td>98-3207</td>
<td>2465-14lv-23S0</td>
<td>Trophy LVMP 1.4 mm, SS Needle</td>
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<tr>
<td>98-3208</td>
<td>2465-12HV-32S0</td>
<td>Trophy HVLP 1.2 mm, SS Needle</td>
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<tr>
<td>98-3209</td>
<td>2101-0000-0</td>
<td>Model 2101, CONV, 1.0 mm</td>
<td>GEM2-P2D1060</td>
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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>
</tr>
</thead>
<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>
<td>Model 2101, CONV, 1.4 mm</td>
<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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<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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<tr>
<td>98-3215</td>
<td>2465-14HV-32S0</td>
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<td>98-3216</td>
<td>2101-3100-0</td>
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<td>98-3217</td>
<td>2465-14lv-23S0</td>
<td>Trophy LVMP 1.4 mm, SS Needle</td>
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<td>98-3218</td>
<td>2465-12HV-32S0</td>
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<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
- 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

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.
Gemini II Pumps

41-818836
½" Acetal
Air Inlet Pressure Range: 0-100 PSI
Air Inlet Size: ¼" NPT
Max Fluid Pressure: 100 PSI (6.9 bar)
Fluid Inlet/Outlet: ½" NPT
Max Flow Rate: 14 gpm (52 lpm)
Maximum Suction Lift: 13 ft (3.9 m)
Max Particle Size: .125" (3 mm)
Max Temperature Limits: 180 F (82 C)
Flow @ 60 Cycles/Min: 3.12 gal (11 liters)
Cycles Per Gallon: 19.2
Displacement Per Cycle: .052 gpm (.196 lpm)
Noise Level With Muffler: 84 dBA Max
Weights: 14 lbs (6.4 kg)

41-818831
½" Acetal Short Stroke
41-818830
½" Stainless
Air Inlet Pressure Range: 0-125 PSI
Air Inlet Size: ¼" NPT
Max Fluid Pressure: 125 PSI (8.6 bar)
Fluid Inlet/Outlet: ½" NPT
Max Flow Rate: 14 gpm (52 lpm)
Maximum Suction Lift: 12 ft (3.6 m)
Max Particle Size: .125" (3 mm)
Max Temperature Limits: 180 F (82 C)
Flow @ 60 Cycles/Min: 3.12 gal (11 liters)
Cycles Per Gallon: 19.2
Displacement Per Cycle: .052 gpm (.196 lpm)
Noise Level With Muffler: 84 dBA Max
Weights: 14 lbs (6.4 kg)

41-818820
1" Aluminum
Air Inlet Pressure Range: 0-125 PSI
Air Inlet Size: ½" NPT
Max Fluid Pressure: 125 PSI (8.6 bar)
Fluid Inlet/Outlet: 1" NPT
Max Flow Rate: 45 gpm (170 lpm)
Maximum Suction Lift: 17 ft (5.1 m)
Max Particle Size: .25" (6 mm)
Max Temperature Limits: 220 F (104 C)
Flow @ 60 Cycles/Min: 13.2 gal (50 liters)
Cycles Per Gallon: 1.2
Displacement Per Cycle: .028 (.105 lpm)
Noise Level With Muffler: 86 dBA Max
Weights: 21 lbs (9.5 kg)

41-818822
41-818823 (BSP)
1" Stainless
Air Inlet Pressure Range: 0-125 PSI
Air Inlet Size: ½" NPT
Max Fluid Pressure: 125 PSI (8.6 bar)
Fluid Inlet/Outlet: 1" NPT
Max Flow Rate: 45 gpm (170 lpm)
Maximum Suction Lift: 17 ft (5.1 m)
Max Particle Size: .25" (6 mm)
Max Temperature Limits: 220 F (104 C)
Flow @ 60 Cycles/Min: 13.2 gal (50 liters)
Cycles Per Gallon: 1.2
Displacement Per Cycle: .028 (.105 lpm)
Noise Level With Muffler: 86 dBA Max
Weights: 28 lbs (12.7 kg)

41-818810
1 ½" Stainless
Air Inlet Pressure Range: 0-125 PSI
Air Inlet Size: 1" NPT
Max Fluid Pressure: 125 PSI (8.6 bar)
Fluid Inlet/Outlet: 1 ½" NPT
Max Flow Rate: 106 gpm (401 lpm)
Maximum Suction Lift: 22 ft (6.7 m)
Max Particle Size: .25" (6 mm)
Max Temperature Limits: 220 F (104 C)
Flow @ 60 Cycles/Min: 49.2 gal (186 liters)
Cycles Per Gallon: 1.2
Displacement Per Cycle: .82 gpm (3.0 lpm)
Noise Level With Muffler: 95 dBA Max
Weights: 43 lbs (19.5 kg)

Repair Kits:
Air End Seal Kit
41-718850
41-718853
41-718856
41-718857
41-718859

Diaphragm Kit
41-718851
41-718854
41-718855
41-718858

Ball & Seal Kit
41-718852
41-718856
41-718858

Operation Manual
77-2997

Bypass Filter/Pulse Assembly Wall Mount 55 gal. Containers
41-718812-3

Replacement Grounding Kit
0114-011798

S.S. Fluid Regulator ¾" NPT (m) x ¾" NPS (m)
1 GPM 5 - 55 PSI Outlet Pressure, Includes Riser Tube and 83-2571 0-100 PSI Gauge (for ½" pumps)
84-320

Centrifugal Filter/Regulator Assembly
HFRL-508

25' Ergoflex Air Hose ¼" ID with ¼" NPS (f) Swivel Connections
71-3101

25' Fluidall Hose 3/8" ID with 3/8" NPS (f) Swivel Connections
71-3303

5 gal. Alum/Steel Siphon Kit for 1" Pump
41-2295

55 gal. Galvanized Siphon Kit for 1" Pump
41-10467

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