GEMINI™ II SERIES

Double Diaphragm Pumps





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 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.





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]



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

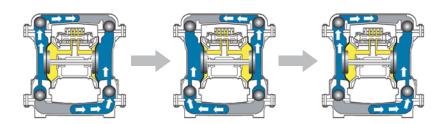
Regulate the inlet air supply to adjust the pump flow from zero to maximum rated capacity

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

5 MODELS











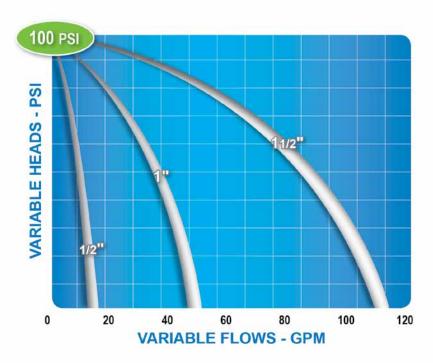




INCREASED FLOW RATE

air pressure from 0-100 PSI to

achieve desired flow rate



MORE COATING

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

- Adhesives
- Catalyzed Varnish
- Special Coatings
- Paints
- Resins
- Stains
- Solvents



LOW PULSE

New

Gemini[™] II **Short Stroke Pump**

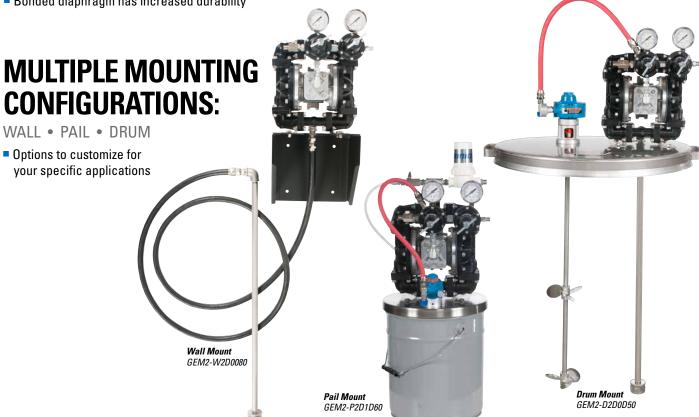


Binks has added a Low Pulse Double Diaphragm pump model to the Gemini II series. The new Short Stroke pump has an optimized diaphragm design and reduction in stroke length to provide efficient pump changeover.

- 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





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



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
- $G \hspace{0.5cm} = \hspace{0.5cm} Stainless \hspace{0.1cm} Steel \hspace{0.1cm} Gear \hspace{0.1cm} Reduced \hspace{0.1cm} Drive \hspace{0.1cm} (Drum \hspace{0.1cm} Mount \hspace{0.1cm} Only) \hspace{0.1cm} 31\text{-}400$

E SIPHON

- 0 = None
- 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
- = Stainless Steel Fluid Regulator 84-320

| 1" GEMINI II DIAPHRAGM PUMP PACKAGES | | | | |
|--------------------------------------|-----------|--|--|--|
| 41-818120 Package Contains | Part # | | | |
| 1" Aluminum Gemini II Pump | 41-818820 | | | |
| Wall Mount | 41-718800 | | | |
| Dual Air Control | 41-718808 | | | |
| Fluid Regulator | 84-320 | | | |
| 41-818121 Package Contains | Part # | | | |
| 1" Stainless Steel Gemini II Pump | 41-818822 | | | |
| Wall Mount | 41-718800 | | | |
| Dual Air Control | 41-718808 | | | |
| 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?



Gemini™ II

OUTFITS

All outfits have 25' Erogoflex air hose and 25' fluid hose 2101 guns include complete gun set up



1/2" Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly, Agitator

| Gemini II Outfit # | Spray Gun Part# | Spray Gun Description | Pump Package Part# | |
|--------------------|--------------------------------------|-------------------------------|--------------------|--|
| 98-3200 | 2465-14HV-32S0 | Trophy HVLP 1.4 mm, SS Needle | GEM2-P2D1D60 | |
| 98-3201 | 2101-3100-0 Model 2101, CONV, 1.4 mm | | GEM2-P2D1D60 | |
| 98-3202 | 2465-14lv-23S0 | Trophy LVMP 1.4 mm, SS Needle | GEM2-P2D1D60 | |
| 98-3203 | 2465-12HV-32S0 | Trophy HVLP 1.2 mm, SS Needle | GEM2-P2D1D60 | |
| 98-3204 | 2101-0000-0 | Model 2101, CONV, 1.0 mm | GEM2-P2D1D60 | |

Pail Mount Outfit GEM2-P2D1060 Includes

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

| Gemini II Outfit # | Spray Gun Part# | Spray Gun Description | Pump Package Part# |
|--------------------|-----------------|-------------------------------|--------------------|
| 98-3205 | 2465-14HV-32S0 | Trophy HVLP 1.4 mm, SS Needle | GEM2-P2D1060 |
| 98-3206 | 2101-3100-0 | Model 2101, CONV, 1.4 mm | GEM2-P2D1060 |
| 98-3207 | 2465-14lv-23S0 | Trophy LVMP 1.4 mm, SS Needle | GEM2-P2D1060 |
| 98-3208 | 2465-12HV-32S0 | Trophy HVLP 1.2 mm, SS Needle | GEM2-P2D1060 |
| 98-3209 | 2101-0000-0 | Model 2101, CONV, 1.0 mm | GEM2-P2D1060 |

Wall Mount Outfit GEM2-W2D2070 Includes

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

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

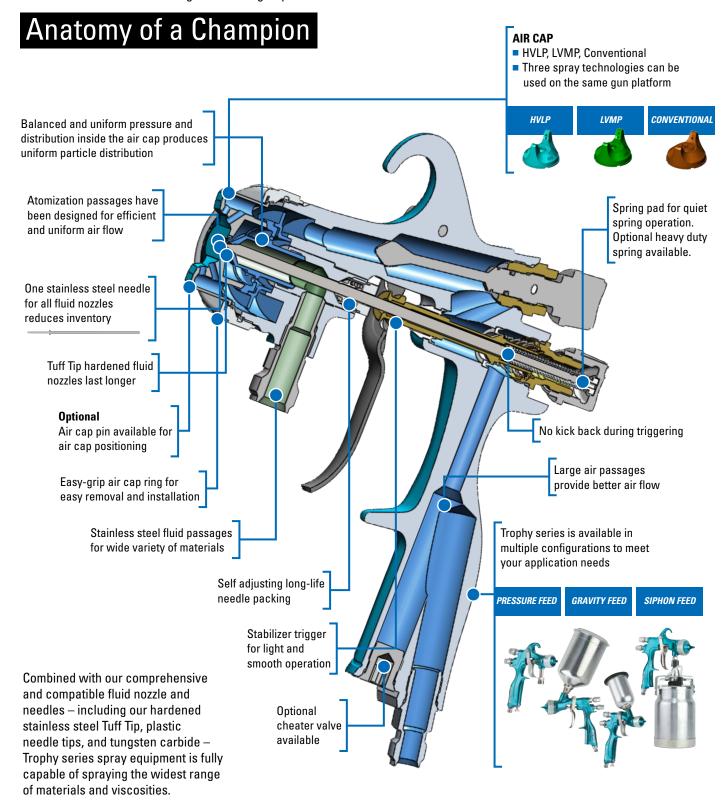
Wall Mount Outfit GEM2-W2D3080 Includes

1/2" Acetal Short Stroke Pump, Dual Air Control, Bypass Filter/Pulse Assembly, 55-Gal Siphon

| | Gemini II Outfit # | Spray Gun Part# | Spray Gun Description | Pump Package Part# | |
|---|------------------------|-----------------|-------------------------------|--------------------|--|
| / | 98-3215 2465-14HV-32S0 | | Trophy HVLP 1.4 mm, SS Needle | GEM2-W2D3080 | |
| | 98-3216 | 2101-3100-0 | Model 2101, CONV, 1.4 mm | GEM2-W2D3080 | |
| | 98-3217 | 2465-14lv-23S0 | Trophy LVMP 1.4 mm, SS Needle | GEM2-W2D3080 | |
| | 98-3218 | 2465-12HV-32S0 | Trophy HVLP 1.2 mm, SS Needle | GEM2-W2D3080 | |
| | 98-3219 | 2101-0000-0 | Model 2101, CONV, 1.0 mm | GEM2-W2D3080 | |

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.





GEMINI™ II SERIES Double Diaphragm Pumps













Specifications

| | 41-818836 | 41-818831 | 41-818830 | 41-818820 | 41-818822 41-818823(BSP) | 41-818810 |
|--------------------------|-------------------------|---------------------------|-------------------------|-------------------------|-----------------------------|--------------------------|
| Gemini II Pumps | ½" Acetal | ½" Acetal Short Stroke | ½" Stainless | 1" Aluminum | 1" Stainless | 1 ½" Stainless |
| Air Inlet Pressure Range | 0-100 PSI | 0-100 PSI | 0-125 PSI | 0-125 PSI | 0-125 PSI | 0-125 PSI |
| Air Inlet Size | 1/4" NPT | 1⁄4" NPT | 1⁄4" NPT | ½" NPT | ½" NPT | 34" NPT |
| Max Fluid Pressure | 100 PSI (6.9 bar) | 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) | 0.125" (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) | 0.028 (.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 | 41-718850 | 41-718850 | 41-718855 | 41-718855 | 41-718858 |
| Diaphragm Kit | 41-718853 | 41-718861 | 41-718851 | 41-718856 | 41-718856 | 41-718860 |
| Ball & Seal Kit | 41-718854 | 41-718854 | 41-718852 | 41-718857 | 41-718857 | 41-718859 |
| Operation Manual | 77-2998 | 77-2995 | 77-2997 | 77-2994 | 77-2994 | 77-2993 |

| Part # | Accessories |
|--|--|
| 41-9000 | Drum Elevator |
| 41-718805 | Single Regulator Air Control (½" pumps) |
| 41-718806 | Dual Regulator Air Control (½" pumps) |
| 41-718807 | Single Regulator Air Control (1" pumps) |
| 41-718808 | Dual Regulator Air Control (1" pumps) |
| 41-718809 | Single Regulator Air Control (1 ½" pumps) |
| 41-718810 | Pail Cover Stainless Steel (for ½" and 1" pumps) |
| 41-718800 Wall Bracket (for ½" and 1" pumps) | |
| 41-718815 | Drum Cover 55 gal. Stainless Steel (for ½" and 1" pumps) |
| 41-718812-1 | Bypass Filter/Pulse Assembly Pail or Drum Mount |
| 41-718812-2 | Bypass Filter/Pulse Assembly Wall Mount 5 gal. Containers |

| Part # | Accessories | |
|---|--|--|
| 41-718812-3 | Bypass Filter/Pulse Assembly Wall Mount 55 gal. Containers | |
| 0114-011798 | Replacement Grounding Kit | |
| 84-320 | 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) | |
| HFRL-508 | Centrifugal Filter/Regulator Assembly | |
| 71-31101 | 25' Ergoflex Air Hose ¼" ID with ¼" NPS (f) Swivel Connections | |
| 71-3303 25' Fluidall Hose %" ID with %" NPS (f) Swivel Connections | | |
| 41-2296 | 5 gal. Alum/Steel Siphon Kit for 1" Pump | |
| 41-10467 | 55 gal. Galvanized Siphon Kit for 1" Pump | |

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www.finishingbrands.com

email: marketing@finishingbrands.com











