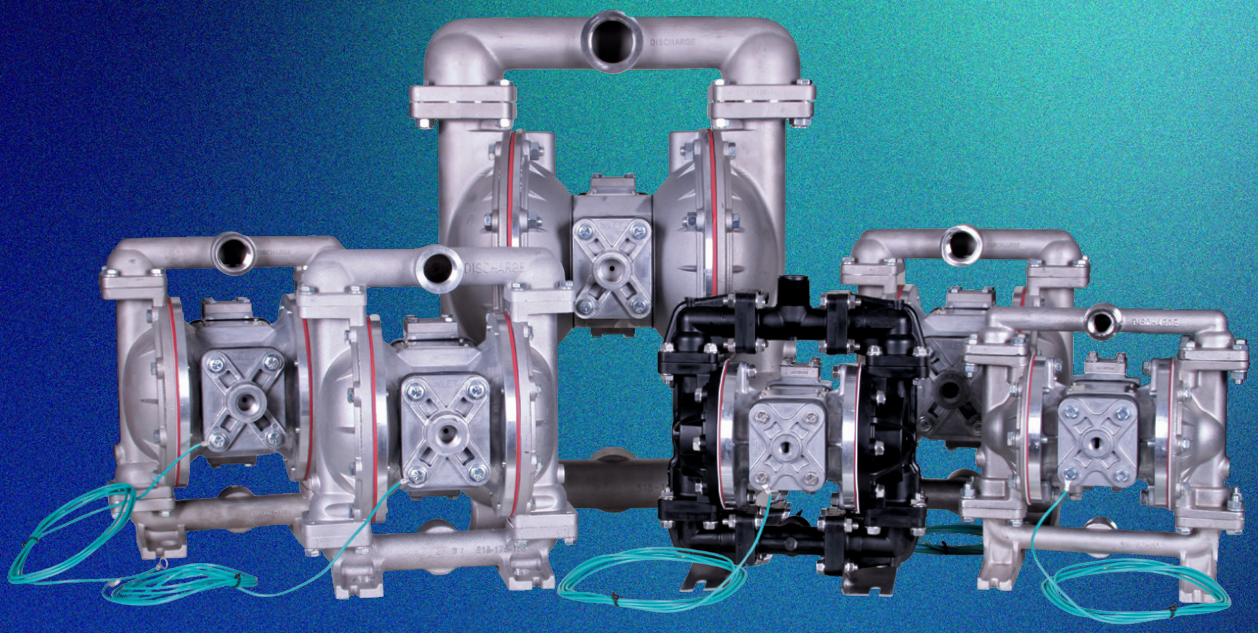
Binks



Gemini™ II Series

Double Diaphragm Pumps

FLUID HANDLING

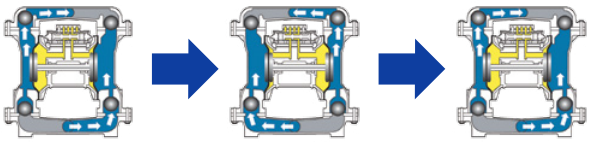
Binks Gemini II Diaphragm Pumps are the premier pumps for spraying, transferring, or circulating a variety of coatings.

Built for durability and versatility, the Gemini II series delivers consistent spray patterns for high-quality finishes and extended pump life. With five models available, Gemini II pumps are designed to handle a broad range of materials and viscosities, making them the ideal solution for many fluid handling applications, including:

- Adhesives
- Catalyzed Varnishes
- Paints
- Resins
- Solvents
- Specialty Coatings
- Stains

Double Diaphragm Design

Gemini II pumps feature a double diaphragm design, providing a 1:1 fluid ratio to compressed air supply.



Features:

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

Advantages:

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

Pumps High to Low Viscosity Materials

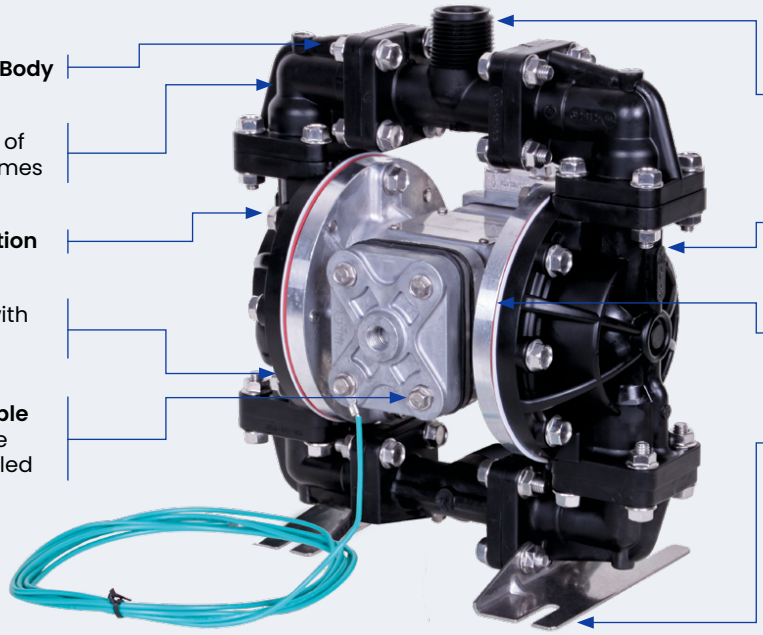
Seal-Less
No mechanical seals or packing to leak

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



Shown: ½" Acetal Pump (41-818836)

Pump Packages

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).

	A	B	C	D	E	F
GEM2- ☐	☐	☐	☐	☐	☐	☐

MOUNTING OPTION

W – WALL
P – PAIL
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 – 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

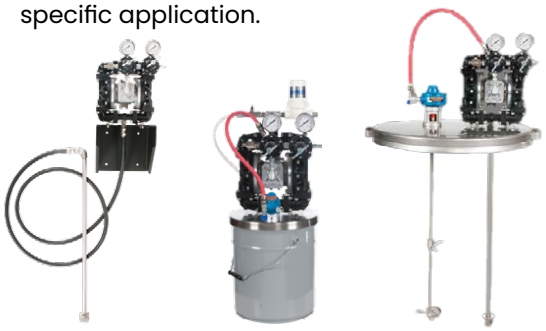
1" Gemini II Diaphragm Pump Packages

41-818120 Package	Part #
1" Aluminum Gemini II Pump	41-818820
Wall Mount	41-718800
Dual Air Control	41-718808
Fluid Regulator	84-320

41-818121 Package	Part #
1" Stainless Steel Gemini II Pump	41-818822
Wall Mount	41-718800
Dual Air Control	41-718808
Fluid Regulator	84-320

Mounting Configurations

Three customizable options for your specific application.



WALL PAIL DRUM

Outfits

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

Pail Mount Outfit with Agitator GEM2-P2D1D60

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

OUTFIT #	SPRAY GUN	GUN DESCRIPTION	PUMP PACKAGE
98-3200	2465-14HV-32S0	Trophy HVLP 1.4mm, SS Needle	GEM2-P2D1D60
98-3201	2101-3100-0	Model 2101, CONV, 1.4mm	GEM2-P2D1D60
98-3202	2465-14lv-23S0	Trophy LVMP 1.4mm, SS Needle	GEM2-P2D1D60
98-3203	2465-12HV-32S0	Trophy HVLP 1.2mm, SS Needle	GEM2-P2D1D60
98-3204	2101-0000-0	Model 2101, CONV, 1.0mm	GEM2-P2D1D60

Pail Mount Outfit GEM2-P2D1060

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

OUTFIT #	SPRAY GUN	GUN DESCRIPTION	PUMP PACKAGE
98-3205	2465-14HV-32S0	Trophy HVLP 1.4mm, SS Needle	GEM2-P2D1D60
98-3206	2101-3100-0	Model 2101, CONV, 1.4mm	GEM2-P2D1D60
98-3207	2465-14lv-23S0	Trophy LVMP 1.4mm, SS Needle	GEM2-P2D1D60
98-3208	2465-12HV-32S0	Trophy HVLP 1.2mm, SS Needle	GEM2-P2D1D60
98-3209	2101-0000-0	Model 2101, CONV, 1.0mm	GEM2-P2D1D60

Wall Mount Outfit GEM2-W2D2070

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

OUTFIT #	SPRAY GUN	GUN DESCRIPTION	PUMP PACKAGE
98-3210	2465-14HV-32S0	Trophy HVLP 1.4mm, SS Needle	GEM2-W2D2070
98-3211	2101-3100-0	Model 2101, CONV, 1.4mm	GEM2-W2D2070
98-3212	2465-14lv-23S0	Trophy LVMP 1.4mm, SS Needle	GEM2-W2D2070
98-3213	2465-12HV-32S0	Trophy HVLP 1.2mm, SS Needle	GEM2-W2D2070
98-3214	2101-0000-0	Model 2101, CONV, 1.0mm	GEM2-W2D2070

Wall Mount Outfit GEM2-W2D3080

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

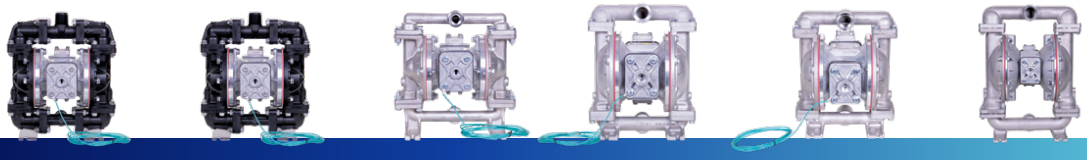
OUTFIT #	SPRAY GUN	GUN DESCRIPTION	PUMP PACKAGE
98-3215	2465-14HV-32S0	Trophy HVLP 1.4mm, SS Needle	GEM2-W2D3080
98-3216	2101-3100-0	Model 2101, CONV, 1.4mm	GEM2-W2D3080
98-3217	2465-14lv-23S0	Trophy LVMP 1.4mm, SS Needle	GEM2-W2D3080
98-3218	2465-12HV-32S0	Trophy HVLP 1.2mm, SS Needle	GEM2-W2D3080
98-3219	2101-0000-0	Model 2101, CONV, 1.0mm	GEM2-W2D3080

Low Pulse Gemini™ II Short Stroke Pump

The Short Stroke pump features an optimized diaphragm design and reduced stroke length for efficient pump changeover, delivering a consistent spray pattern for high-quality finish applications, greater pulsation reduction than both the competition and the Gemini I series and increased durability through its bonded diaphragm.

Shown: ½" Conductive Acetal Body (41-818831)

Gemini II Pump Specifications



	41-818836 ½" ACETAL	**41-818831** ½" ACETAL SHORT STROKE	**41-818830** ½" STAINLESS	**41-818820** 1" ALUMINUM	**41-818822** **41-818823 (BSP)** 1" STAINLESS	**41-818810** 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	¼" NPT	¼" NPT	¼" NPT	½" NPT	½" NPT	¾" 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 (3.9m)	8 ft (2.4m)	12 ft (3.6m)	17 ft (5.1m)	17 ft (5.1m)	22 ft (6.7m)
Max Particle Size	.125" (3mm)	.125" (3mm)	.125" (3mm)	.25" (6mm)	.25" (6mm)	.25" (6mm)
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