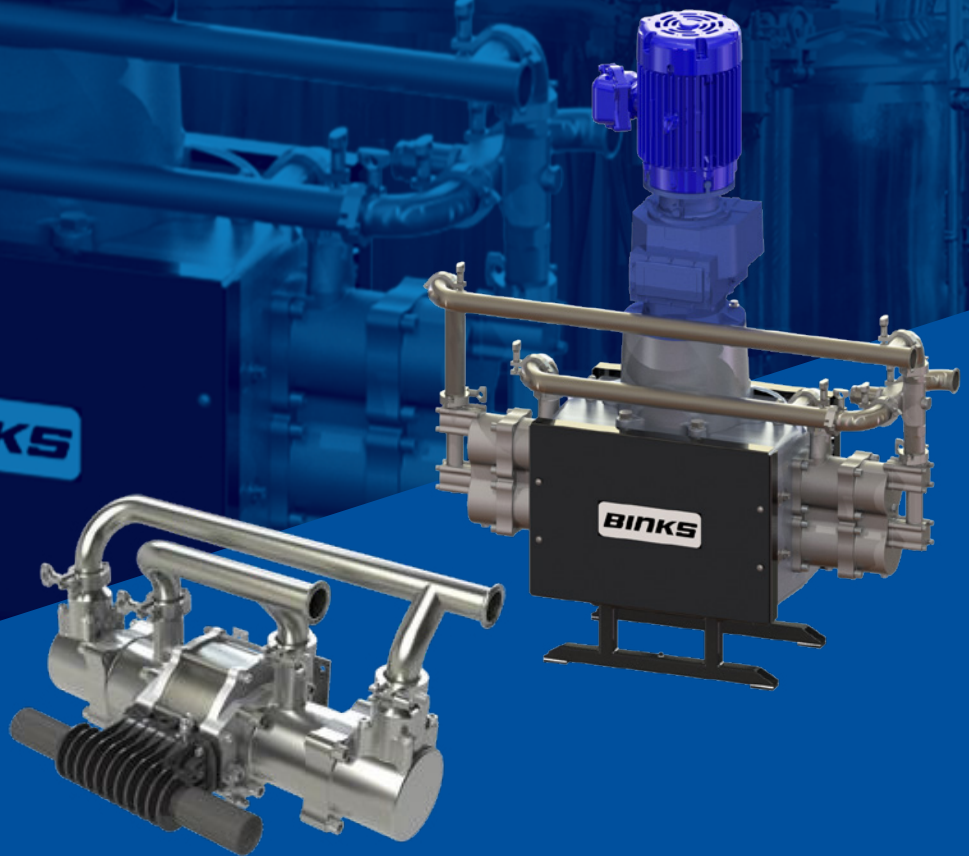


**BINKS**<sup>®</sup>  
A **CARLISLE** BRAND

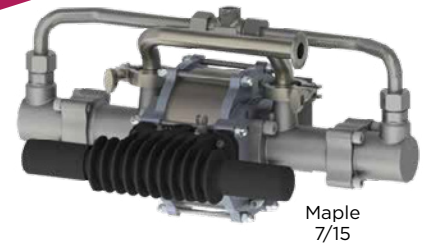


**BINKS**<sup>®</sup>

Paint Circulation & Supply Pumps  
Smart & Maple Series

# BINKS® Maple Pump

Less maintenance  
and less production  
downtime



## Horizontal piston pump for paint circulation & supply applications

The Maple pump series are horizontal piston pumps suited to low and medium pressure applications. The pumps combine an energy efficient air motor and a fluid section that has no exterior leaking seals. High quality materials and surface treatments ensure low maintenance costs and long operational life.

Designed to work with moisture sensitive, shear sensitive and abrasive materials, the horizontal piston arrangement provides minimal pressure fluctuations.

**Binks Maple are the Finishing Industry's best pump solution for circulation systems and among the Top Choice for Automotive OEM customers.**

## FEATURES

- **Advanced air motor design:** Patented technology means lubrication free, low ice, stall free performance
- **Reliable operation:** No exterior leaking seals, plus a backup seal with visual leak detection ensures continued pump operation until the next shift
- **Smooth performance:** Equal pressure for each piston stroke and a quick changeover keeps pressure fluctuations to a minimum
- **Simple to maintain:** Easy access to piston seals and check valves

## RECOMMENDED MATERIALS

- Solvent & Waterborne
- UV Cure
- Catalyst
- Moisture Sensitive
- High Solids
- Abrasive
- CARC

## TYPICAL APPLICATIONS

- Paint Circulation
- Spray Gun Applications
- Flatline Manufacturing

## BINKS MAPLE PUMP



Model	Maple 15/3	Maple 15/3 AFP 'Easi-Flow'	Maple 15/6	Maple 30/3	Maple 60/3	Maple 7/7	Maple 7/15	Maple 8/25
Ratio	3:1	3:1	6:1	3:1	3:1	7:1	15:1	25:1
Fluid Output @ 60 Cycles/Min	6 gal (22.5 L)	6 gal (22.5 L)	6 gal (22.5 L)	12 gal (45 L)	24 gal (90 L)	2.6 gal (10 L)	2.6 gal (10 L)	3.2 gal (12 L)
Max Cont' Cycle Rate	20 Cycles/Min							
Max Inter't Cycle Rate	40 Cycles/Min							
Fluid Connections Inlet	1" Sanitary	1" Sanitary	1" Sanitary	1½" Sanitary	1½" Sanitary	1" Sanitary	1" Sanitary	1" Sanitary
Fluid Connections Outlet	1" Sanitary	¾" Sanitary	1" Sanitary	1½" Sanitary	1½" Sanitary	½" NPT (F)	½" NPT (F)	½" NPT (F)
Max Air Inlet Pressure	102 psi (7 Bar)							
Compressed Air Inlet	¾" BSPP / NPSM	¾" BSPP / NPSM	¾" BSPP / NPSM	¾" BSPP / NPSM	½" BSPP / NPSM	¾" BSPP / NPSM	¾" BSPP / NPSM	½" BSPP / NPSM
Air Volume/Cycle								
@ 45 psi (3.1 Bar)	0.17 SCFM (4.8 l/m)	0.17 SCFM (4.8 l/m)	0.33 SCFM (9.5 l/m)	0.33 SCFM (9.5 l/m)	0.7 SCFM (19.8 l/m)	0.17 SCFM (4.8 l/m)	0.17 SCFM (9.5 l/m)	0.7 SCFM (19.8 l/m)
@ 90 psi (6.2 Bar)	0.33 SCFM (9.3 l/m)	0.33 SCFM (9.3 l/m)	0.65 SCFM (18.5 l/m)	0.65 SCFM (18.5 l/m)	1.4 SCFM (29.7 l/m)	0.33 SCFM (9.3 l/m)	0.65 SCFM (18.5 l/m)	1.4 SCFM (39.7 l/m)
Weight	46 Lbs (21 kg)	55 Lbs (25 kg)	91 Lbs (45 kg)	77 Lbs (35 kg)	143 Lbs (65 kg)	44 Lbs (20 kg)	66 Lbs (30 kg)	88 Lbs (40 kg)
Piggable Paint Circulation Compatibility	No	Yes	No	No	No	No	No	No

# BINKS® Electric Smart Pump

## Respected for their energy saving capabilities and proven reliability

This is why they are found in the world's largest Automotive OEM and Tier 1 paint shops.

The Binks Smart Pumps use standard electric motors to drive the fluid section for pumping paints, solvents and other suitable materials. Smart pumps are available to suit a variety of flow requirements and the EV versions are retrofittable into the tightest paint kitchens

Smart pumps convert the rotary motion with a asymmetrical constant velocity cam. It ensures that there is always a piston generating pressure and eliminates pulsation and the need for a surge chamber. The fluid section design ensures the pump can run continuously and features a run to failure visual indication.

The Smart Pump system lowers operational cost compared to pneumatic pumps by monitoring and controlling pump speed and paint supply. During times of demand, pump speed and flow matches the demand at a constant pressure. At other times, pressure and flow are reduced, motor speed is lowered and energy is saved.

## FEATURES

- **Long life piston seals:**  
Lubricated by paint on both sides to ensure no external leaks
- **Ceramic coated pistons:**  
Plus tungsten carbide seats for long working life
- **Bellows shaft seal:**  
Eliminate the need for shaft packing lubrication
- **Auto lubrication system:**  
Provides automatic carriage lubrication for up to a year



E4-60

## RECOMMENDED MATERIALS

- Solvent & Waterborne
- UV Cured
- Shear Sensitive Materials
- Moisture Sensitive Materials

## TYPICAL APPLICATIONS

- Paint Circulation

## BINKS SMART PUMP



Model	E2-7	E2-15	EV2-15	E2-15 AFP 'Easi-Flush'	E2-30	EV2-30	E2-40	E2-60	E4-60	E4-100
<b>Min Flow 10 Cycles/Min</b>	0.44 gal (1.66L)	1 gal (3.75 L)	1 gal (3.75 L)	1 gal (3.75 L)	2 gal (7.5 L)	2 gal (7.5 L)	2.6 gal (10 L)	4 gal (15 L)	4 gal (15 L)	6.5 gal (25 L)
<b>Max Flow 40 Cycles/Min</b>	1.75 gal (6.64 L)	4 gal (15 L)	4 gal (15 L)	4 gal (15 L)	8 gal (30 L)	8 gal (30 L)	10.6 gal (40 L)	15 gal (60 L)	15 gal (60 L)	26 gal (100 L)
<b>Cycle Displacement</b>	0.044 gal (0.166 L)	0.10 gal (0.375 L)	0.10 gal (0.375 L)	0.10 gal (0.375 L)	0.2 gal (0.75 L)	0.2 gal (0.75 L)	0.26 gal (1.0 L)	0.40 gal (1.5 L)	0.40 gal (1.5 L)	0.65 gal (2.5 L)
<b>Max Pressure</b>	290 psi (20 Bar)	290 psi (20 Bar)	290 psi (20 Bar)	290 psi (20 Bar)	300 psi (20.7 Bar)	290 psi (20 Bar)	232 psi (16 Bar)	290 psi (20 Bar)	290 psi (20 Bar)	290 psi (20 Bar)
<b>Motor</b>	0.37kW	0.75 kW	0.75 kW	0.75 kW	1.5 kW	1.5 kW	1.5 kW	3.0 kW	3.0 kW	3.7 kW
<b>Piggable Paint Circulation Compatibility</b>	No	No	No	Yes	No	No	No	No	No	No
<b>Physical Dimensions (inches/mm)</b>	36.1x12.8x39	32.7x12.8x38.1	17.7x19.7x42.8	33.5x15.9x36.7	38.2x16.6x46.3	16.1x24.7x47.7	38.2x16.6x46.3	43.1 x 19 x 51.3	48.2x17x54.6	51.7x19.7x64
	918x325x991	830x325x968	450x500x1087	850x403x933	970x421x1177	410x628x1205	970x421x1177	1096x485x1304	1225x433x1388	1314x500x1625

## SUPPORTING THE SMART SYSTEM



### PRV

Designed especially for the demands of paint, the pressure relief valve neatly forms part of the manifold and protects the motor and gearbox from overpressure.



### BPR

As part of the Smart System, the BPR maintains back pressure at the last take off during demand but at other times is set for no back pressure.



### Pressure Transducer

Monitors system pressure in a Smart System and provides feedback for the pump speed to maintain the system pressure set point value.



### Smart Card

Removes the complexity of having to program a pump control system from scratch. Each card can control up to 4 pumps and comes with Windows based software for configuration.



### BINKS 5-YEAR WARRANTY

Binks® warrants to the original end-use purchaser that Binks branded products shall not fail under normal use and service due to a defect in material or workmanship within five (5) years from the date of shipment from Binks. Does not include normal wear and tear parts.

## The brands you trust

Carlisle Fluid Technologies, a wholly-owned subsidiary of Carlisle Companies Incorporated, is dedicated to providing customers industry-leading solutions for the supply, control, application and curing of a wide range of paints, powders, sealants, adhesives and other application materials. From manual finishing equipment, to highly automated mass-production installations, the company solves customers' material application challenges through the combination of product innovation and decades of technical expertise. Focused on efficient, cost-effective global solutions for the transportation and other industrial markets, the company offers an expanding collection of pioneering product brands – BGK™, Binks®, DeVilbiss®, Hosco®, ms® and Ransburg®.

## Let's start a conversation

We want to work together to help answer your application challenges. To learn more about what we can offer, visit our website at [CarlisleFT.com](http://CarlisleFT.com) or call us today.



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