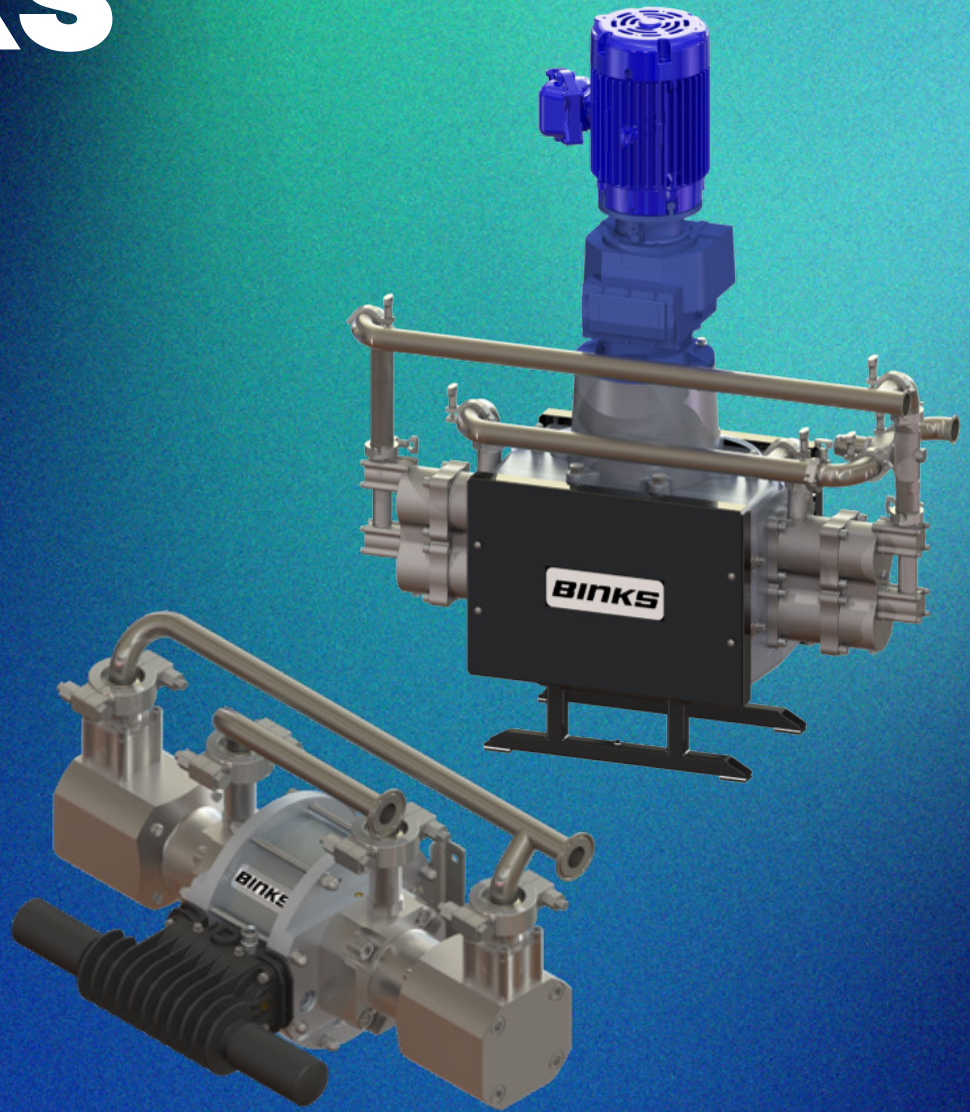


Binks®



Paint circulation & supply pumps

Smart & Maple Series Pumps

Binks® Maple Pump

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 Cured
- Catalyst
- Moisture Sensitive
- High Solids
- Abrasive
- CARC

Typical Applications

- Paint Circulation
- Spray Gun Applications
- Flatline Manufacturing

Less maintenance and less production downtime

Model	Maple 15/3	Maple 15/3 AFP 'Easi-Flow'	Maple 15/6	Maple 30/3	Maple 60/3	Maple 7/7	Maple 120/3	Maple 8/25	Maple 15/25
Ratio	3:1	3:1	6:1	3:1	3:1	7:1	3:1	25:1	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)	48 gal (180 L)	3.2 gal (12 L)	6 gal (22.5L)
Max Cont' Cycle Rate	20 Cycles/Min								
Max Inter't Cycle Rate	40 Cycles/Min								
Fluid Connections Inlet Outlet	1" Sanitary 1" Sanitary	1" Sanitary ¾" Sanitary	1" Sanitary 1" Sanitary	1½" Sanitary 1½" Sanitary	1½" Sanitary 1½" Sanitary	1" Sanitary ½" NPT (F)	2" Sanitary 2" Sanitary	1" Sanitary ½" NPT (F)	1" Sanitary ¾" NPT (F)
Max Fluid Pressure	304.5 psi (21 bar)	304.5 psi (21 bar)	610 psi (42 bar)	304.5 psi (21 bar)	304.5 psi (21 bar)	710psi (49 bar)	304.5 psi (21 bar)	2500 psi (175 bar)	2500 ps (175 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	¾" 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)	1.33 SCFM (37.8 l/m)	0.7 SCFM (19.8 l/m)	1.33 SCFM (37.8 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)	2.59 SCFM (73.2 l/m)	1.4 SCFM (39.7 l/m)	2.59 SCFM (73.2 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)	363 Lbs (165 kg)	88 Lbs (40 kg)	255.2 Lbs (116 kg)
Piggable Paint Circulation Compatibility	No	Yes	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 an 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

Recommended Materials

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

Typical Applications

- Paint Circulation



E4-60

Model	E2-7	E2-15	EV2-15	E2-15 AFP 'Easi-Flush'	E2-30	EV2-30	E2-40	E2-60	E4-60	E4-100
Min Flow 10 Cycles/Min	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)
Max Flow 40 Cycles/Min	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)
Cycle Displacement	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)
Max Pressure	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)
Motor	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
Piggable Paint Circulation Compatibility	No	No	No	Yes	No	No	No	No	No	No
Physical Dimensions (inches/mm)	36.1x12.8x39 918x325x991	32.7x12.8x38.1 830x325x968	17.7x19.7x42.8 450x500x1087	33.5x15.9x36.7 850x403x933	38.2x16.6x46.3 970x421x1177	16.1x24.7x47.7 410x628x1205	38.2x16.6x46.3 970x421x1177	43.1x19 x 51.3 1096x485x1304	48.2x17x54.6 1225x433x1388	51.7x19.7x64 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.



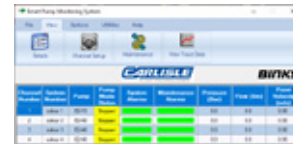
BPR

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.

Experience the difference.



Binks is a leading global manufacturer of products and systems for the supply, application and curing of sprayed and dispensed materials. Binks serves a variety of industries, including automotive, pharmaceuticals, food and beverage, and manufacturing. With decades of experience, Binks continues to set the standard for precision, reliability, and innovation in fluid technology solutions.

Binks

For more information, visit binks.com.



A powerful solution can start with a simple conversation

We want to help build the best solution to your application challenges. Learn more about what we can offer by reaching out to the office nearest you.

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Form No. 03-524-01