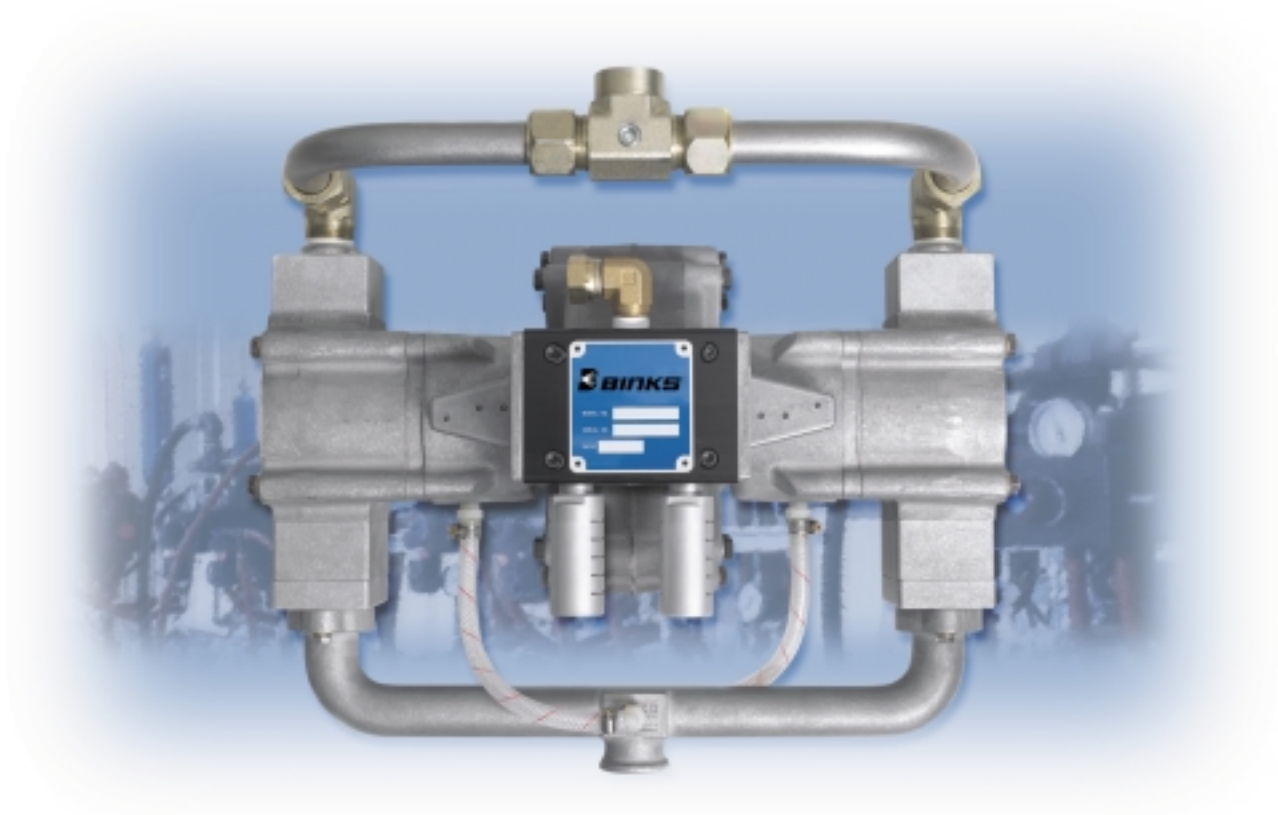


**BINKS®**

A41-78-R3



# EXEL™ Pump Series



# EXEL™ Pumps

## Features and Benefits

- Pilot valves have no springs
- Air logic is totally enclosed. No external hosing or fittings.
- Ideal for highly filled, abrasive, "Tough-to-Pump" thixotropic materials.
- Cartridge pilot and spool valve easily unbolt for service.
- At approximately the same rate of air consumption, EXEL™ pumps can deliver significantly more fluid than other horizontally opposed piston pumps.
- Simple maintenance, easily accessible for parts replacement.
- Self-priming.
- Choice of aluminum or stainless steel wetted parts.
- Can be floor, wall, or drum mounted.
- Hard chrome plated stainless steel pistons with pressure loaded wiper seals means longer life with less maintenance.
- Straight through flow path.

Designed to meet industry's demand for durable, dependable pumps, the four models in the Binks EXEL™ pump line deliver from 2.57 to 6.85 GPM at 60 cycles per minute, significantly more fluid than other horizontally opposed pumps at the same rate of air consumption. The EXEL™ pumps contain two opposed reciprocating pistons that have a displacement chamber, but no cylinders, and utilize four-ball checks. The EXEL™ pumps are equipped with pressure loaded wiper seals. This unique design eliminates the frequent maintenance of Chevron "vee" packings and piston cups most often associated with vertical piston pumps.

**Hard chrome plated stainless steel pistons are standard on all EXEL™ pumps.** Due to their design and rugged construction, all the EXEL™ pumps can run for long periods with very little maintenance or downtime. (An EXEL™ pump was field tested for a period of seven months. During that time, it pumped over 1 million gallons of fluid material without breakdown and showed only minimal wear).

**EXEL™ pump models are available for use with either air or air-assisted applications,** depending on the pressure ratio required and the viscosity of the material being pumped. All the EXEL™ pumps can be floor, wall, or drum mounted.

EXEL™ Pumps	4.5 : 1 Ratio	12.0 : Ratio
Aluminum Model	41-27045	41-27120
Stainless Steel Model	41-17045	41-17120
Max. Cycle Rate	60 cycles/min	60 cycles/min
Max. Fluid Delivery	6.85 GPM	2.57 GPM
Max. Air Inlet Pressure	100 psi	100 psi
Air Motor Diameter	7 1/4"	7 1/4"
Air Consumption/cycle @ 100 psi	0.467 SCFM	0.467 SCFM
Air consumption/60 cycles @ 100 psi	28 SCFM	28 SCFM
Air Inlet Size	1/2" NPS (f)	1/2" NPS (f)
Fluid Inlet Size	1" NPT (f)	1" NPT (f)
Fluid Outlet Size	1" NPT (f)	1" NPT (f)
Part Sheet Number	2576	2622
Shipping Weight	Aluminum: 72 lbs Stainless Steel: 102 lbs	77 lbs 110 lbs

## Typical Applications

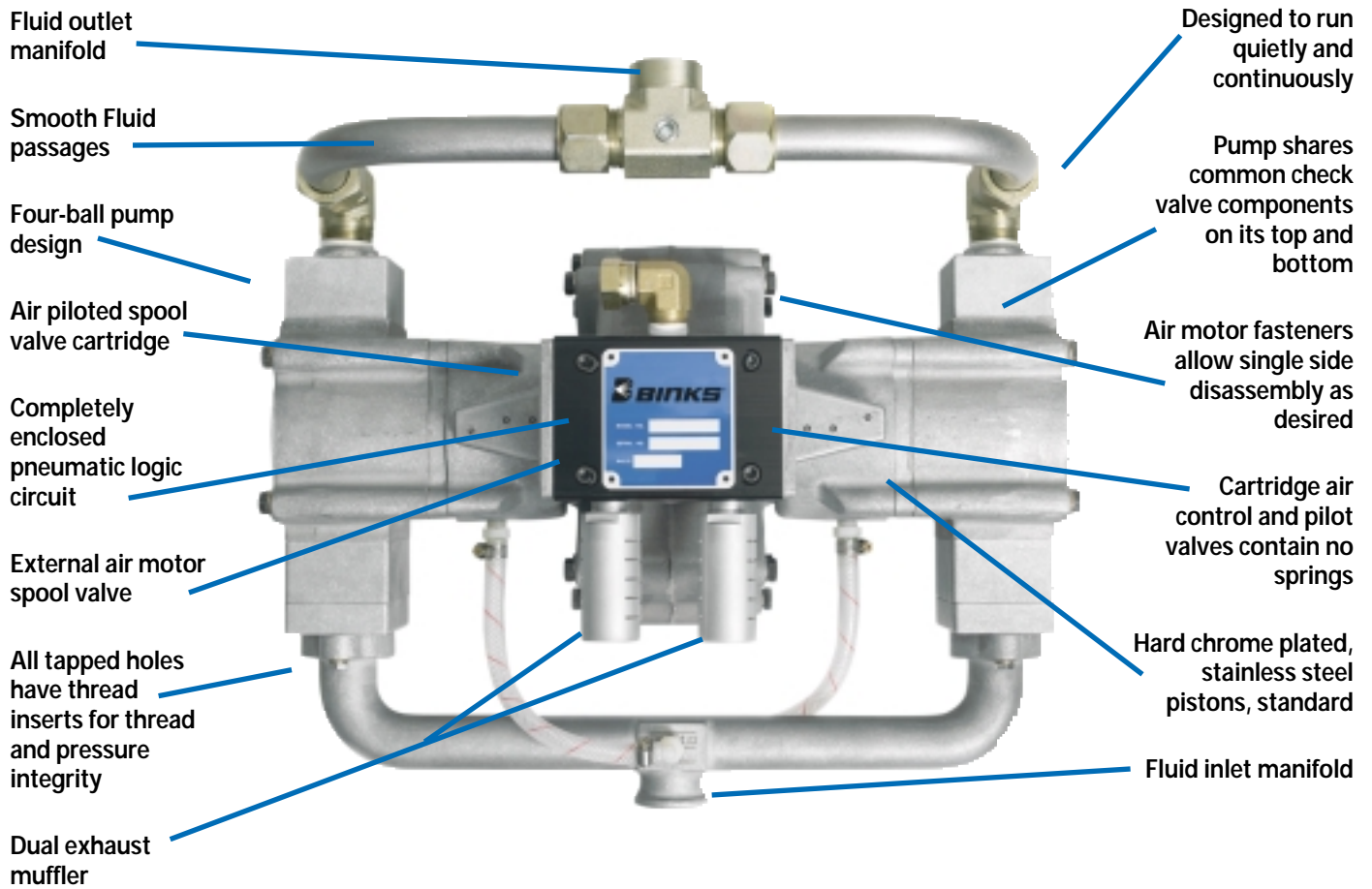
- Air spray and HVLP supply pump
- Circulating systems
- Air Assit Airless

## Typical Fluids Handled

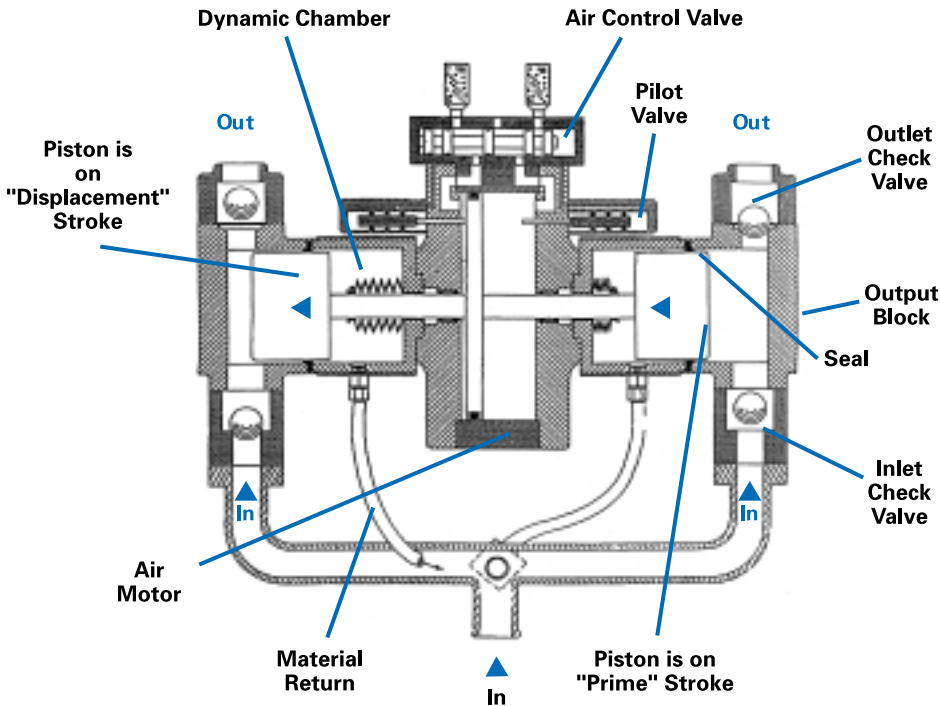
- Catalyzed coatings
- High solids coatings
- Abrasive materials
- Solventborne and waterborne fluids
- Moisture sensitive materials
- UV-cure coatings
- And more

The Binks EXEL™ Pump can be ordered in either aluminum or stainless steel. The aluminum version of the EXEL™ can be used with many of today's popular materials and coatings. The stainless steel version of the EXEL™ provides users the ultimate in durability and corrosion resistance.

The design and construction of the Binks' EXEL™ pump allows it to be used in a wide variety of circulating systems and other applications.



■ One of the most outstanding design features of the EXEL™ pump is its straight through flow path. The inlet and outlet ports are inline which allows the EXEL™ to deliver material without imparting excess shear to it in the process. This makes the EXEL™ the pump of choice for delivering shear-sensitive material in circulating systems where a mechanical ratio greater than one is required.



Simplified EXEL™ Pump Cross-Section

**All EXEL™ Pumps Include:**  
Bracket for wall mounting,  
135-74 Grounding Kit

Optional - 41-3198 Bracket for  
cover/shelf mounting

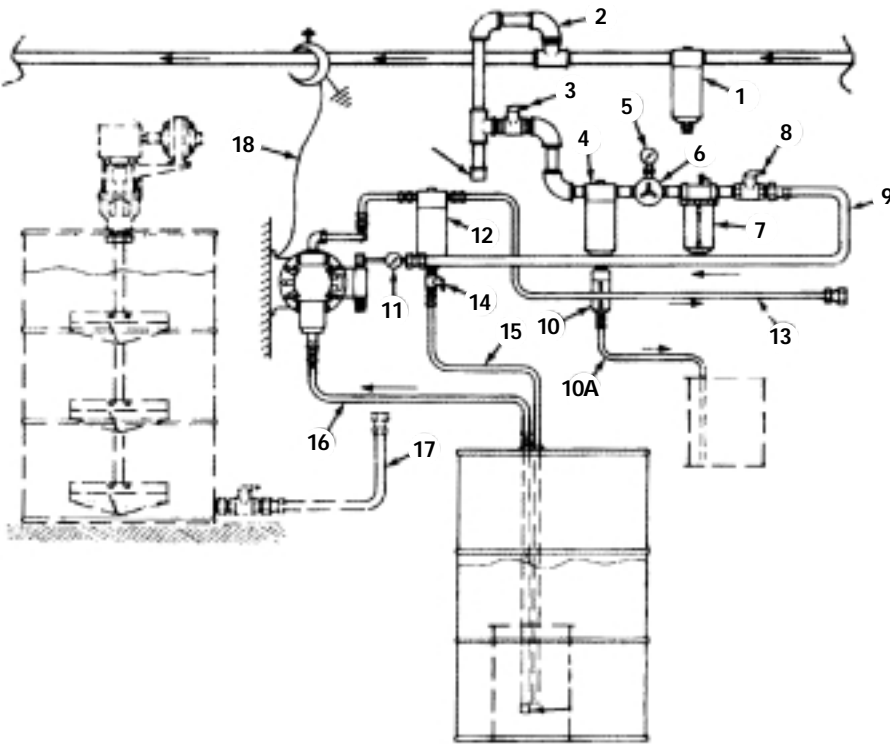
**Repair Kits**  
(sold separately):

41-37042 Seal Kit, Control Valve  
41-37043 Seal Kit, Pilot Valve

207-11992 Seal Kit, Pump (4.5:1) only  
207-11993 Seal Kit, Pump (12:1) only

**Recommended Air Control:**  
41-3189 Wall mounted. Includes  
regulator, oil/water extractor and  
airline lubricator.



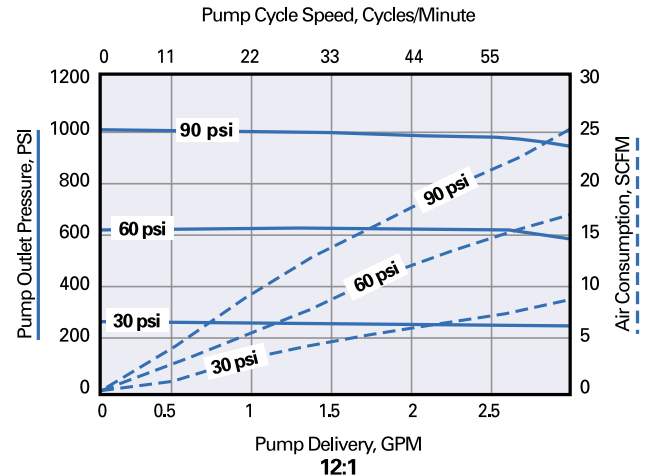
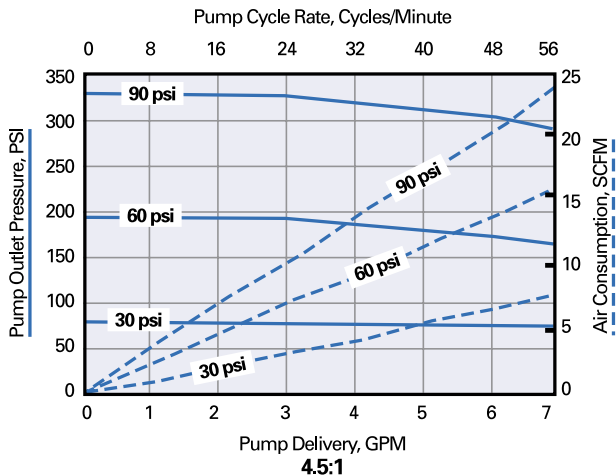


## Typical Installation

1. Oil-water extractor
2. Piping circuit to avoid scale and resolve
3. Air valve bleed type master
4. Oil-water extractor
5. Regulated air pressure gauge
6. Air regulator self relieving
7. In-line oiler
8. Air valve bleed type shut-off
9. Grounded air supply line
10. Automatic drain
- 10A. Automatic drain-away hosing
11. Pump protector device
12. Outlet filter
13. Grounded fluid line
14. Pressure relief-drain valve
15. Pressure relief-drain hosing
16. Siphon tube hosing with spring guard (optional)
17. Hosing/piping from gravity supply (optional)
18. Ground wire connected to ground source

## Dependability

In pumping over one million gallons, these durable pumps ran continuously, 24 hours/day, seven days per week with virtually no maintenance required.



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