Gemini™ & Infinity™
Finishing Pumps & Equipment

BINKS
Since 1890 when Binks introduced the first cold water airless paint spraying machine, the company has provided the world with superior spray finishing technology. Today, you can find Binks spray finishing technology at work in virtually every industry around the world. Binks extensive product line includes air and airless spray painting outfits, pressure tanks, paint circulating systems, high and low pressure material handling pumps, and much more.

Pump technology has come a long way since its inception. We’re proud of the fact that our team of engineers and scientists have been responsible for a number of the technical advances today’s pump users have come to rely on for maximum productivity.

As your partner, we ask questions, we listen, and we work hard to provide practical solutions to today’s spray finishing challenges. In addition, we work closely with coatings manufacturers to make sure that our application technology delivers today’s coatings without sacrificing the quality and production demands of our customers.

Our technical centers and labs are dedicated facilities where we design and test fluid delivery product prototypes. Once we’re satisfied with our initial design, we run extensive tests in the field, make design and performance modifications, retest, and then finalize in our constant effort to bring you the best technology available in the marketplace. Our team of experts – engineers, designers, technicians, and customer service professionals – are constantly working to bring you the quality, efficiency, performance, and value you expect from one of the world’s most recognized spray finishing brands.

Training

The best finishing operation and equipment in the world can’t perform to their fullest potential unless used properly. We offer a number of training opportunities to help your finishing professionals achieve maximum performance from our products. Classes, workshops, and seminars are customized to target your specific educational needs and include both classroom and hands-on sessions on: surface preparation, equipment types, evaluation/quality control, compliance issues, and specific spray applications associated with your industrial finishing operation.

From our nationally renowned Finishing Workshop, to on-site training, to NESHAP required education, our training opportunities are designed specifically for individuals involved with industrial, contractor, and maintenance spray finishing applications. For further information about classwork, hands-on training, and course materials, please contact your Binks Industrial Finishing Specialist.

Infinity® UltraCoat™ Piston Pumps

Infinity UltraCoat™ Piston Pumps feature ceramic coated cylinders and piston rods. Infinity UltraCoat provides the waterborne benefits of stainless steel with the abrasion-resistance of ceramic coating for maximum pump packing endurance and reduced wear-part abrasion and scoring.

Durable UltraCoat is standard on all Infinity piston pumps.

Infinity UltraCoat Piston Pumps are ideal for fluid handling operations which routinely deliver “severe” materials such as abrasives, waterbornes, corrosives, and other materials.
Pump Basics for Smooth Operation

Fluid Characteristics Influence Pump Selection
Consider the following fluid characteristics when choosing your finishing pump. Matching pumps to the fluids they will deliver will improve pump performance.
- Corrosiveness
- Abrasiveness
- Stability
- Solvent evaporation rate
- Tackiness/adhesion

Diaphragm vs. Piston Pumps
Diaphragm pumps are used for fluids with abrasive and/or shear sensitive materials.
- Groundable Acetal Pumps – excellent low cost pumps for use with flammable materials
- Polypropylene Pumps – excellent low cost pumps for non-flammable materials
- Aluminum Diaphragm Pumps – economical option for oils and water-based and some solvent-based fluids. They should not be used with halogenated hydrocarbons

Technical Terms
Continuous Duty – pumps that operate 24/7/365.
Cycle Rate – number of times the pump completes a pump cycle in a given period of time.
Flow Rate – volume of material that can be pumped in a given period of time.
Maximum Fluid Outlet Pressure – maximum outlet fluid pressure a pump can achieve at stall, no flow.

Piston pumps offer high durability for specific fluids.
- Carbon Steel Piston Pumps – have a limited role in solvent-based applications and are not suitable for waterborne applications
- Stainless Steel Piston Pumps – highly versatile pumps offer protection from corrosion with waterborne coatings and new coatings
  - Hard Chrome Plating – for the full spectrum of non-abrasive coatings
  - Ultra or Ceramic Coating – most durable surface available for highly abrasive coatings
  - Non-Coated Stainless Steel – economical option for lower production requirement

Pump Cycle – complete upstroke and downstroke (left-right) operation of the air motor piston.
Pump Ratio – relationship between the air or hydraulic motor piston effective area and the lower displacement pump’s piston effective area.
Viscosity – resistance of fluid to flowing.

Maximizing Pump Performance
Finishing pumps are influenced by many factors. Keep in mind that the pump must move material from its source through a variety of conditions to the spray gun. Be sure to discuss the following conditions with your Binks finishing pump professional to assure maximum performance of your pump.
- Power supply to ensure adequate air volume
- Air filtration treatment for pump operation
- Flow rates and recommended pressures
- Resistance to flow/back pressure
- Agitator requirements
- Pump location
- Viscosity control
- Material characteristics

Pump Families

Infinity™ Diaphragm Pump Packages
- Abrasion, solids handling, and shear sensitive materials
- Reliable and affordable transfer of low pressure, high volume coatings
- One to multiple spray guns and bulk transfer applications
- Stainless steel seats on all pumps
- Virtually “unstallable”
- Constant pressure to enhance performance and reduce pulsation
- Positive prime
- Used for high volume transfer
- Used in place of tanks when the application requires two or more tank refills per shift
- Low pressure conventional or HVLP applications
- Good for abrasive material
- Passages for shear sensitive materials

Infinity™ “N” Series
- Powerful performance
- Economical price

Infinity™ “Pogo” Plus Pump
- 55 gallon drum pump
- Stub pump version
- Wetted materials, stainless steel or carbon steel
- UHMW polyethylene and PTFE

Infinity™ Two-Ball w/UltraCoat™
- Easy maintenance
- Aggressive, corrosive, abrasive, waterbornes, UV-cure, acid-cure, catalyzed coatings and caustic
- All-stainless steel wetted components for waterborne compatibility
- Tungsten-carbide seats
- UltraCoat™ on piston and rods that outperforms hard chrome

Infinity™ Four-Ball w/UltraCoat™
- High volume fluid transfer/recirculation operations
- Waterborne paint circulation, solvent supply, DI water supply, and surface coating
- Stainless steel construction for waterborne compatibility
- Hardened stainless steel seats
- UltraCoat™ on piston and rods that outperforms hard chrome
- Passivated or electropolished stainless steel parts
- UHMW polyethylene packings
- 6” air motor stroke
- Multi-gun or large circulation application pumps
Select maximum fluid outlet pressure and fluid flow @ 60 cycles per minute (normal intermittent duty cycle is approximately 20 to 30 cycles per minute). From the Binks Infinity and Gemini Pumps available, choose a pump model and go to the pump reference page No. for specifications.
# Binks Gemini & Infinity Pumps

## Selection Guide

<table>
<thead>
<tr>
<th>Pump Technology</th>
<th>Binks Brand Infinity/Gemini</th>
<th>Unique Benefit</th>
<th>Typical Fluids</th>
<th>Typical Applications</th>
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<tbody>
<tr>
<td>Gemini Diaphragm Pump (Low Pulse) (Max. Flow) 0 to 100 PSI pgs. 8-10</td>
<td>818830 1/2&quot; 1:1 SS 818831 1/2&quot; 1:1 Grnd Act 818832 1/2&quot; 1:1 Poly 818833 1/2&quot; 1:1 Poly 818834 1/2&quot; 1:1 SS 818835 1/2&quot; 1:1 Poly 818836 1/2&quot; 1:1 Act 818837 1/2&quot; 1:1 Alum 818838 1/2&quot; 1:1 Alum</td>
<td>Economical Pump High flow capacity</td>
<td>Paints, inks, solvents, dyes, stains and coatings Low viscosity fluids</td>
<td>Paint and coating circulating systems Circulation of low viscosity inks, stains and dyes Low viscosity adhesive supply Drum transfer Low pressure air spray or HVLP supply pump</td>
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<tr>
<td>Gemini High Volume Diaphragm Pump 0 to 300 PSI pgs. 11-12</td>
<td>818610 1-1/2&quot; 1:1 SS 818620 1&quot; 1:1 Alum 818640 1&quot; 1:1 Poly 818622 1&quot; 1:1 SS 818650 1&quot; 3:1 SS</td>
<td>High pressure for a diaphragm pump Low shear output Quick color change</td>
<td>Paints, stains, resins, latexes, wood preservative stains, primers, adhesives, varnishes, dispersions, solvents, stains, shear-sensitive fluids, boathide, special color paints</td>
<td>Wood coating circulating systems Paint circulating systems Drum fluid transfer Unloading fluids</td>
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<tr>
<td>Infinity Two-Ball Piston Pump 0 to 6000 PSI pgs. 20-27</td>
<td>812315 11:1 812325 22:1 812335 23:1 812345 30:1 812415 40:1 812365 60:1</td>
<td>Wide performance range capability Low to high pressure capability Uniform and easily controlled delivery</td>
<td>Solventborne fluids, waterborne fluids, high solids coatings, lacquers, enamels, urethanes</td>
<td>Automotive paint circulation High volume paint and coating transfer Fluid transfer and supply Chemical cleaning supply pump</td>
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<tr>
<td>Infinity Four-Ball Piston Pump 0 to 700 PSI pgs. 30-34</td>
<td>814400 2:1 814410 3:1 814420 4:1 814430 5:1 814440 7:1</td>
<td>Low cycle rate operation Low shear operation</td>
<td>Varnishes, stains, enamels and lacquers, cleaning fluids, adhesives, sealants, waterborne and solventborne paints for paint and circulating systems</td>
<td>Painting, transfer and supply</td>
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<tr>
<td>Infinity Hydraulic Four-Ball Piston Pump 0 to 300 PSI pgs. 36-37</td>
<td>814450 0.2:1 814460 0.3:1</td>
<td>Low operating costs Quiet operation</td>
<td>Acid catalyzed varnishes, stains, enamels and lacquers, solventborne paints (CS), waterborne paints (SS), cleansing solutions</td>
<td>Furniture and wood, aerospace, truck and bus, farm, fleet, general metals</td>
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<tr>
<td>Infinity &quot;N&quot; Series Piston Pump 0 to 2800 PSI pgs. 16-17</td>
<td>812370 28:1 812380 4:1 812390 4:1 812395 4:1</td>
<td>Air powered for high reliability Available in SS or CS Stub or drum pump</td>
<td>Epoxies, enamels and stains, polyurethanes, solventborne and waterborne coatings</td>
<td>Fluid transfer from drum to tank Low viscosity spray adhesive supply Supply pump for spray applications of coatings and wood finishing materials</td>
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<tr>
<td>Infinity “Pogo” Plus 0 to 200 PSI Piston Pump pg. 19</td>
<td>812490 2:1 SS Drum 812491 2:1 SS Drum 812470 2:1 CS Drum 812471 2:1 CS Drum 812500 2:1 SS Stub 812501 2:1 SS Stub 812480 2:1 CS Stub 812481 2:1 CS Stub</td>
<td>Air powered for reliability Delivery up to 2.15 GPM Available in SS or CS Stub or drum</td>
<td>Light viscosity coatings and fluids, thinners and solvents, spray adhesives, general chemicals</td>
<td>Furniture and wood, cabinets General metal fabrication Corrosion control, aerospace</td>
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<tr>
<td>Raptor Piston Pump 0 to 1800 PSI pgs. 14-15</td>
<td>812450 18:1 812451 18:1</td>
<td>Ice free air motor does not stall Patented easy access fluid section</td>
<td>Epoxies, enamels and lacquers, polyurethanes, solventborne and waterborne coatings</td>
<td>Furniture and wood, cabinets General metal fabrication Corrosion control, aerospace</td>
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<tr>
<td>Vector Outfits 0 to 2800 PSI pg. 18</td>
<td>812180 28:1 812190 28:1</td>
<td>Lightweight pump for portable applications Air assist or airless</td>
<td>Lacquers, enamels, stains, sealers, etc. Light to heavy viscosity materials</td>
<td>Wood shops, painting contractors</td>
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</table>

SS – Stainless Steel, CS – Carbon Steel
Typical Pump Installation Techniques

Circulating Supply to Spray Gun

Dead End Supply to Spray Gun

Circulating Loop with Dead End Supply to Spray Guns

Circulating Loop with Circulating Supply to the Spray Guns
Gemini 1/2” Diaphragm Pumps

Max. Flow – Pump #818830 (SS), #818832 (Polypro), #818833 (Polypro), #818836 (Acetal), #818837 (Alum),
Low Pulse – #818831 (Acetal), #818834 (SS), #818835 (Polypro), #818836 (Alum)

### Performance – 100 PSI

- **Air Inlet Pressure**: 20 - 100 PSI (1 - 6.9 bar)
- **Fluid Pressure**: 20 - 100 PSI (1 - 6.9 bar)
- **Max. Flow Rate (Flooded Inlet)**
  - **Standard Stroke**
    - Stainless Steel: 13-GPM (49.2 lpm)
    - Groundable Acetal: 7-GPM (26.5 lpm)
- **Max. Temperature Limits**
  - Stainless Steel: 200˚ F (93˚ C)
  - Groundable Acetal: 180˚ F (82˚ C)
  - Polypropylene: 150˚ F (66˚ C)
- **Flows @ 60 Cycles/Min.**
  - **Standard Stroke**
    - 2.4 Gal (9 liters)
  - **Short Stroke**
    - 1.32 Gal (5 liters)
- **Cycles Per Gallon (Liter)**
  - **Standard Stroke**
    - 25(6.6)
  - **Short Stroke**
    - 45.5(512)
- **Displacement Per Cycle - Standard Stroke**
  - 9.24 cu. in. (151.4 cm³)
  - 5.12 oz. (151.4 ml)
  - .040 gal. (.15 liter)
- **Short Stroke**
  - 5.08 cu. in. (83.3 cm³)
  - 2.8 oz. (.83.3 ml)
  - .022 gal. (.08 liter)
- **Noise Level with muffler**
  - @ 70 PSI @ 60 Cycles/Min.: 71.1 db(A)

### Available Accessories

- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873116
- Siphon: 5 ft. hose w/ fluid filter (5 gal): 874504

### Part Numbers

- **Air Motor Repair Kit**: 862004
- **Diaphragm Repair Kit**
  - Stainless Steel: 862040
  - Groundable Acetal: 862040
  - Polypropylene: 862040
- **Ball and Seat Repair Kit**
  - Stainless Steel (Ball/Seat): 862045
  - Teflon (Ball) SS (Seat): 862046

### Gemini Bare Pumps 1/2", Low Pulse

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SIZE</th>
<th>RATIO</th>
<th>GPM @ CYCLE</th>
<th>GPM @ 60 CPM</th>
<th>GPM @ MAX. CPM</th>
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<th>CONSTRUCTION</th>
<th>SEATS</th>
<th>BALLS</th>
<th>DIAPHRAGMS</th>
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### Gemini Bare Pumps 1/2", Max. Flow

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Gemini 1/2” Diaphragm Pump Packages

For Wood and Office Furniture, Commercial Equipment, Metal Fabrication, Metal Maintenance and Cabinet Shops

Gemini Pump Packages 1/2", Low Pulse – 100 PSI

<table>
<thead>
<tr>
<th>PACKAGE NUMBER</th>
<th>BARE PUMP NUMBER</th>
<th>WETTED PARTS</th>
<th>RATIO &amp; SIZE</th>
<th>GPM @ 60 CPM</th>
<th>MOUNTING</th>
<th>AIR REGLTRS.</th>
<th>SUCTION HOSE/W/BUNG ADAPT.</th>
<th>AGITATOR</th>
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<th>PULSE/FLUID REG.</th>
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Gemini Pump Packages 1/2", Max. Flow – 100 PSI

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<th>BARE PUMP NUMBER</th>
<th>WETTED PARTS</th>
<th>RATIO AND SIZE</th>
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Gemini 1/2" Low Pulse Spray Outfits

MODEL #98-3022
SYSTEM COMPONENT LIST

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<th>Part No.</th>
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<td>71-3303</td>
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<td>4</td>
<td>818160</td>
<td>Gemini Pump Pkg.</td>
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GENERAL DESCRIPTION
This 5 gallon pail system is complete with Mach 1 SL Gun w/94 x 94P set-up, 1:1 Gemini 1/2" diaphragm pump w/air control and 25 ft. fluid and air hose assemblies.

MODEL #98-3023
SYSTEM COMPONENT LIST

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
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<td>Gemini Pump Pkg.</td>
<td>1</td>
<td>81816X</td>
</tr>
</tbody>
</table>

GENERAL DESCRIPTION
This 5 gallon pail system is complete with 2001 gun w/63BSS x 63PB 1:1 Gemini 1/2" diaphragm pump w/air control and 25 ft. fluid and air hose assemblies.

MODEL #98-3024
SYSTEM COMPONENT LIST

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty.</th>
<th>Part Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7000-1204-4</td>
<td>Mach 1 SL Gun</td>
<td>1</td>
<td>2865</td>
</tr>
<tr>
<td>2</td>
<td>71-3303</td>
<td>Fluid Hose Assy’</td>
<td>1</td>
<td>—</td>
</tr>
<tr>
<td>3</td>
<td>71-1205</td>
<td>Air hose Assy’</td>
<td>1</td>
<td>—</td>
</tr>
<tr>
<td>4</td>
<td>818210</td>
<td>Gemini Pump Pkg.</td>
<td>1</td>
<td>81821X</td>
</tr>
</tbody>
</table>

GENERAL DESCRIPTION
This 55 gallon, wall mounted system comes complete with Mach 1 SL Gun w/94 x 94P set-up, 1:1 Gemini 1/2" Low Pulse diaphragm pump, air control, 25’ air and fluid hose and 55 gallon siphon kit.
### Gemini 1" Diaphragm 1:1 Pumps

*Pump #818820 (Alum), #818822 (SS), #818840 (Polypro)*

#### Performance – 100 PSI

- **Air Inlet Pressure**: 20 - 120 PSI (1.4 - 8.3 bar)
- **Fluid Pressure**: 20 - 120 PSI (1.4 - 8.3 bar)
- **Max. Flow Rate**
  - Flooded Inlet: 35-GPM (133 lpm)
  - Flow @ 60 Cycles/Min.: 8.6 GPM (36 liters)
- **Max. Temperature Limits**: 200˚ F (93˚ C)
- **Max. Particle Size**: 1/8” Dia (3.2 mm)
- **Flow @ 60 Cycles/Min.**: 9.6 GPM (36 liters)
- **Displacement Per Cycle**: 36.96 cu. in. (.60566 cm³)
- **Noise Level with muffler** @ 70 PSI @ 60 Cycles/Min.: 64.5 db(A)

#### Repair Kit Part Numbers

- **Air Motor Repair Kit**: 862003
- **Diaphragm Repair Kit**: 862020
- **Ball and Seat Repair Kit**
  - Stainless Steel (Ball/Seat): 862025
  - Teflon (Ball) SS (Seat): 862026

#### Available Accessories

- **Air Filter/Regulator**: 849303
- **Wall Mount Bracket**: 873115
- **Siphon Kit**: 5' Hose with Stainer
  - 5 Gallon: 874500
  - 55 Gallon: 874501
- **Siphon Kits Include**: 5' hose, SS fittings, tube and strainer

### Gemini Bare Pumps 1", 1:1 – 100 PSI

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SIZE</th>
<th>RATIO</th>
<th>GPM @ 60 CPM</th>
<th>GPM @ MAX. CPM</th>
<th>BODY</th>
<th>SEATS</th>
<th>BALLS</th>
<th>DIAPHRAGMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>818820</td>
<td>1&quot;</td>
<td>1:1</td>
<td>0.16</td>
<td>9.6</td>
<td>Alum</td>
<td>SS</td>
<td>SS</td>
<td>PTFE</td>
</tr>
<tr>
<td>818840</td>
<td>1&quot;</td>
<td>1:1</td>
<td>0.17</td>
<td>10.2</td>
<td>Polypro</td>
<td>SS</td>
<td>SS</td>
<td>PTFE</td>
</tr>
<tr>
<td>818822</td>
<td>1&quot;</td>
<td>1:1</td>
<td>0.16</td>
<td>9.6</td>
<td>SS</td>
<td>SS</td>
<td>SS</td>
<td>PTFE</td>
</tr>
</tbody>
</table>

### Gemini Pump Packages 1", 1:1 – 100 PSI

<table>
<thead>
<tr>
<th>PACKAGE NUMBER</th>
<th>BARE PUMP NUMBER</th>
<th>WETTED PARTS</th>
<th>RATIO AND SIZE</th>
<th>GPM @ 60 CPM</th>
<th>MOUNTING</th>
<th>AIR REGLTRS.</th>
<th>SUCTION HOSE</th>
<th>AGITATOR</th>
<th>PRIME VALVE</th>
<th>PULSE FILTER</th>
<th>FLUID REG.</th>
<th>BUNG ADAPT.</th>
<th>VALVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>819120</td>
<td>818820</td>
<td>Alum, PTFE</td>
<td>1:1, 1 NPT</td>
<td>9.6</td>
<td>wall</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>819121</td>
<td>818822</td>
<td>SS, PTFE</td>
<td>1:1, 1 NPT</td>
<td>9.6</td>
<td>wall</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Gemini 1" 818840 Diaphragm Pump**

**Gemini 1" 818820 and 818822 Diaphragm Pumps**
Gemini 1" Hi-Volume 3:1 Pump
Pump #818850 (SS) – Ratio 2.65:1 Diaphragm Pump

Wall Mount Bulk Transfer

These bulk transfer/high volume finishing pumps can efficiently transfer finishing coatings to a day tank. The 3:1 pump can supply large circulating systems. Both pumps are designed to handle heavy abrasive coatings. 1" inlet-outlet. Lubrication required for 24 hours a day and 7 days a week. Operation only.

MODEL #818100
3:1 Diaphragm Includes:
Pump ............................... 818800
Wall Bracket ..................... 873134
Air Control ........................ 849303
Vented Shut Off ................... 849311

 Gemini Bare Pump 1", 3:1 – 300 PSI

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SIZE</th>
<th>RATIO</th>
<th>GPM @ 60 CPM</th>
<th>GPM @ MAX. CPM</th>
<th>WETTED MATERIAL CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>818850</td>
<td>1&quot;</td>
<td>3:1</td>
<td>0.09</td>
<td>5.4</td>
<td>SS, SS, SS, PTFE</td>
</tr>
</tbody>
</table>

 Gemini Pump Packages 1", 3:1 – 300 PSI

<table>
<thead>
<tr>
<th>PACKAGE NUMBER</th>
<th>BARE PUMP NUMBER</th>
<th>WETTED MATERIAL</th>
<th>WETTED MATERIAL</th>
<th>AIR REGULATORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>818100</td>
<td>818150</td>
<td>3:1, 1 NPT</td>
<td>849303</td>
<td>873134</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance – 300 PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Inlet Pressure .... 20 - 100 PSI (1.4 - 6.8 bar)</td>
</tr>
<tr>
<td>Fluid Pressure ........ 50 - 265 PSI (4 - 20.4 bar)</td>
</tr>
<tr>
<td>Inlet/Outlet ............ 1&quot; NPT</td>
</tr>
<tr>
<td>Max. Flow Rate ......... 260-280 in lb.</td>
</tr>
<tr>
<td>Air Inlet Pressure .... 15 GPM</td>
</tr>
<tr>
<td>Fluid Pressure ........ 300 PSI</td>
</tr>
<tr>
<td>Max. Particle Size ...... 1/8&quot; Dia (3.2 mm)</td>
</tr>
<tr>
<td>Max. Temperature Limits 200°F (93°C)</td>
</tr>
<tr>
<td>Flow @ 60 Cycles/Min ... 5.4 Gal.(20.4 liters)</td>
</tr>
</tbody>
</table>

Displacement Per Cycle
20.79 cu. in. . . . . . . (340.7 cm³)
11.52 oz. . . . . . . (340.7 ml)
.09 gal. . . . . . . (.34 liter)
Cycles Per Gallon (Liter) . . . . 11.1 (2.9)
Noise Level with muffler
@ 70 PSI @ 60 Cycles/Min . . . . . . 84.5 db(A)

Specifications

Air Motor . . . . . . . . Unbalanced
Wetted Pump Material . . Stainless Steel
Diaphragm Material . . . PTFE
Seat . . . . . . . . . . . . Stainless Steel
Balls (standard) . . . . Stainless Steel
Weight . . . . . . . . . . . . 95 lbs (43 kgs)

Repair Kit Part Numbers

Air Motor Repair Kit . . . . . 862007
Diaphragm Repair Kit . . . . . 862006
Ball and Seat Repair Kit Stainless Steel (Ball/Seat) . . . . . 862025

Available Accessories

Air Filter/Regulator . . . . . 849303
Wall Mount Bracket . . . . . 873134

Wall Mount Bulk Transfer

These bulk transfer/high volume finishing pumps can efficiently transfer finishing coatings to a day tank. The 3:1 pump can supply large circulating systems. Both pumps are designed to handle heavy abrasive coatings. 1" inlet-outlet. Lubrication required for 24 hours a day and 7 days a week. Operation only.

MODEL #818100
3:1 Diaphragm Includes:
Pump ............................... 818800
Wall Bracket ..................... 873134
Air Control ........................ 849303
Vented Shut Off ................... 849311

Gemini 3.1 High Volume SS Diaphragm Pump

Cycles Per Minute (CPM)

Gemini 3.1 High Volume SS Diaphragm Pump

Fluid Pressure (PSI)

Air Consumption (GPM)

FLOW (GPM): Gallons Per Minute
(1 US Gallon = 3.785 liters)

Shaded Area is Operating Range
Gemini 1 1/2" Hi-Volume 1:1 Pump

**Pump #818810 (SS) – 1 1/2" Diaphragm**

### Wall Mount Bulk Transfer
These bulk transfer/high volume finishing pumps can efficiently transfer finishing coatings to a day tank. The 1:1 pump can supply large circulating systems. The pump is designed to handle heavy abrasive coatings.

### Gemini Bare Pump 1 1/2", 1:1 – 100 PSI

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SIZE</th>
<th>RATIO</th>
<th>GPM @ 60 CYCLE</th>
<th>GPM @ MAX. CPM</th>
<th>WETTED MATERIAL CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>818810</td>
<td>1 1/2&quot;</td>
<td>1:1</td>
<td>0.64</td>
<td>38</td>
<td>SS, SS, SS, PTFE</td>
</tr>
<tr>
<td>818812</td>
<td>1 1/2&quot;</td>
<td>1:1</td>
<td>0.64</td>
<td>38</td>
<td>Alum, SS, PTFE</td>
</tr>
</tbody>
</table>

### Gemini Pump Packages 1 1/2", 1:1 – 100 PSI

<table>
<thead>
<tr>
<th>PACKAGE NUMBER</th>
<th>BARE PUMP NUMBER</th>
<th>WETTED PARTS</th>
<th>RATIO AND SIZE</th>
<th>GPM @ 60 CPM</th>
<th>MOUNTING REGLTRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>818110</td>
<td>818810</td>
<td>SS, PTFE</td>
<td>1:1, 1 1/2 NPT</td>
<td>38</td>
<td>wall, 1</td>
</tr>
</tbody>
</table>

### Performance – 100 PSI
- Air Inlet Pressure: 20 - 120 PSI (1 - 8.3 bar)
- Fluid Pressure: 20 - 120 PSI (1 - 8.3 bar)
- Max. Flow Rate (Flooded Inlet): 90-GPM (340.2 lpm)
- Max. Particle Size: 1/4" Dia (6.4 mm)
- Max. Temperature Limits: 150˚ F (66˚ C)
- Flows @ 60 Cycles/Min.: 43.8 Gal. (165.6 liters)
- Displacement Per Cycle: 147.8 cu. in. (2420 cm³)
- Noise Level with muffler: 77.7 db(A)

### Specifications
- Air Motor: Unbalanced
- Wetted Pump Material: Stainless Steel
- Diaphragm Material: Teflon
- Seat: Stainless Steel
- Balls: Stainless Steel
- Weight: 84 lbs (38.1 kgs)

### Repair Kit Part Numbers
- Air Motor Repair Kit: 862003
- Diaphragm Repair Kit: 862010
- Ball and Seat Repair Kit: 862016
- PTFE (Ball) SS (Seat): 862015

### Available Accessories
- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873135

---

**Gemini 11/2” Hi Volume SS Diaphragm Pump**

**Cycles Per Minute (GPM)**

- Fluid Pressure (PSI)
- Air Consumption (SCFM)
- Flow (GPM) Gallons Per Minute

- Shaded Area is Operating Range
# Binks Viscosity Conversion Chart

For Materials at 77°F Without Special Thixotropic Characteristics

## Convenient Conversion Factors

- Watts x 0.00134 = H.P.
- Kw x 1.34 = H.P.
- Feet of Head (Water) x 2.31 = PSI
- KPa x 0.145 = PSI Kg
- Meters x 3.28084 = Feet
- mm x 0.03937 = Inches

Kgs x 2.2046223 = Pounds (avdp.)
°F = (1.8 x °C) + 32
1 GPM = 0.003785 m³/min.
Gallons of Water x 8.3453 = Pounds of Water

## Application Specification Form

Completing this sheet will provide our Pump Experts with the information they need to quote the correct product to fulfill your specific requirement. Please fax to 630-237-5012

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
<td>State/Province</td>
</tr>
<tr>
<td>Phone</td>
<td>Fax</td>
</tr>
<tr>
<td>E-mail</td>
<td>Contact</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fluid(s) Transferred</th>
<th>Flow Rate</th>
<th>Temp.</th>
<th>Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Raptor Pump (Infinity Series)

Pump #812450 – 18:1 – UHMWPE & Pump #812451 – 18:1 – PTFE

18:1 Ratio Pump
- Ice free air motor does not stall
- Hard chrome plated stainless steel piston rod and cylinder
- UHMWPE or PTFE packings
- Manufactured under ISO 9001 Quality system
- Patented “Easy Access” fluid section

Performance – 1800 PSI
- Air Inlet Pressure Range: 0 - 150 PSI (0 - 10.3 bar)
- Fluid Pressure Range: 0 - 2700 PSI (1 - 186.2 bar)
- Max. Rec’d Cycles/Min.: 120
- Displacement Per Cycle: 2.35 cu. in.
- Volume/Cycle: 1.30 oz. (38.5 ml)
- Cycles Per Gallon: 98.3
- Flow @ 60 Cycles/Min.: 0.61 GPM (2.3 l.p.m.)
- Noise Level @ 100 PSI: 85 db(A)

Specifications
- Model Series (refer to option chart): 81245X
- Type: Air Operated, Two Ball
- Air Motor: 842009
- Motor Repair Kit: 861030
- Motor Diameter: 3” (7.62 cm)
- Stroke (Double Acting): 3” (7.62 cm)
- Air Inlet: 1/4” N.P.T.F. - 1 (female)
- Lower Pump End Series
  - Models 812450: 871110
  - Models 812451: 871111
- Lower Pump End Repair Kit
  - Models 812450: 861110
  - Models 812451: 861111
- Material Inlet: 1/2” N.P.T.F. (female)
- Material Outlet: 1/4” N.P.S.M. (male)
- Weight: 12.63 lbs (5.7 kg)

Repair Kit Part Numbers
- Air Motor Repair Kit: 861030
- Lower Pump (871110) Repair Kit: 861110
- Lower Pump (871111) Repair Kit: 861111

Available Accessories
- Wall Mount Bracket: 873461
- Cart: 873462
Wall Mounted Outfit Model No. 98-3070 (UHMWPE) 98-3071 (PTFE)

Wall-mount outfit is a complete finishing system for stationary installations. The small profile fits easily in tight spaces. Shipping weight 21.5 lbs. (9.8 kg.)

Cart Mounted Outfit Model No. 98-3072 (UHMWPE) 98-3073 (PTFE)

Cart-mount outfit is a complete finishing system for mobile flexibility. This outfit includes pump, Regulator, cart, gunfilter, spray gun with tip and all standard hoses. Shipping weight 35.5 lbs (16.1 kg).

Raptor™ Systems

Wall mounted outfit - with gun and hoses
- 5 gallon (UHMWPE) packings .................. 98-3070
- 5 gallon (PTFE) packings .................. 98-3071
- 55 gallon (UHMW) packings .................. 98-3074
- 55 gallon (PTFE) packings .................. 98-3075

Cart mounted outfit - with gun and hoses
- (UHMWPE) packings .................. 98-3072
- (PTFE) packings .................. 98-3073

Wall mounted package - no gun or hoses
- UHMWPE packings .................. 812290
- PTFE packings .................. 812291

Cart mounted outfit - no gun or hoses
- UHMWPE packings .................. 812280
- PTFE packings .................. 812281

Raptor - Pump only
- UHMWPE packings .................. 812450
- PTFE packings .................. 812451

Shipping Weight .................. 12.6 lbs (5.7 kg)

Available Accessories

*Fluid Tip (Included in Outfits) .......... User Selects
*3/16" Fluid Hose .................. 71-4995
1900 PSI (28 bar), 25", 1/4" N.P.T.
*25' Pneumatic Tubing Assembly ........... 71-4991
*Ground Wire Kit .................. 873067
*100 mesh gun filter; .................. 54-5010
Filter element 54-5012

Fluid Regulator 300-2000 PSI .......... (4.4 - 30 bar)
Pump Outlet Fluid Filter .............. 103-1241
Self-Relieving Air inlet Valve 1/4” NPT (F)

Pump Repair Kit
- UHMWPE packings .................. 861110
- PTFE packings .................. 861111

Lower Pump Repair Kit
- UHMWPE packings .................. 863009
- PTFE packings .................. 863008

Air Motor Repair Kit ........... 861030

Siphon kit; Part No. 874507

*Included with outfits
Infinity “N” Series Pumps 4:1 Ratio

**Pump #812380 Carbon Steel (Stub), #812390 Stainless Steel 300 Series (Stub), #812395 Stainless Steel 300 Series (Drum)**

**Model 812380**

- **Material Outlet**
  - 3/4"-14 NPT (F)

- **Material Inlet**
  - 1-1/2" N.P.T.F. (f)

**Performance – 400 PSI**

- Air Inlet Pressure Range: 0 - 150 PSI (0 - 10.3 bar)
- Fluid Pressure Range: 0 - 600 PSI (0 - 41.4 bar)
- Max. Rec'd Cycles/Min: 120
- Displacement Per Cycle: 6.25 cu. in.
- Volume/Cycle: 4.6 oz. (135 ml)
- Cycles Per Gallon: 28

**Materials of Construction 812380**

- Lower Pump Material: Carbon Steel
- Plunger Material: Carbon Steel
- Cylinder Material: Carbon Steel
- Packing Set: UHMW Polyethylene
  - Max. 120°F Fluid Inlet Temp. (Standard)
  - Max. 180°F Fluid Inlet Temp. (Optional)

**Specifications**

- Model Series (refer to option chart): 81238X
- Type: Air Operated, Two Ball
- Motor Repair Kit: 842005
- Air Motor: 861030
- Motor Diameter: 3" (7.62 cm)
- Stroke (Double Acting): 3" (7.62 cm)
- Air Inlet Pressure Range: 0 - 150 PSI (0 - 10.3 bar)
- Fluid Pressure Range: 0 - 600 PSI (0 - 41.4 bar)
- Max. Rec'd Cycles/Min: 120
- Displacement Per Cycle: 8.25 cu. in.
- Volume/Cycle: 4.6 oz. (135 ml)
- Cycles Per Gallon: 28
- Flow @ 60 Cycles/Min: 2.1 GPM (8.1 l.p.m.)
- Noise Level @ 100 PSI: 85 db(A)

**Available Accessories**

- Air Filter/Regulator: 849303
- Wall Mount Bracket (Stub Pump): 873116
- Fluid Filter: 841006
- Wet Sol Packing Lubricant: 836009
- Wall/Drum Mount Bracket for Drum Pumps: 873184

**Model Number A (mm) B (mm)**

- 812380: 32-5/16" (820.7) 13-9/16" (344.5)

**Model 812390 & 812395**

- **1/4" NPT (F) Air Inlet**

**Performance – 400 PSI**

- Air Inlet Pressure Range: 0 - 150 PSI (0 - 10.3 bar)
- Fluid Pressure Range: 0 - 600 PSI (0 - 41.4 bar)
- Max. Rec'd Cycles/Min: 120
- Displacement Per Cycle: 11 cu. in.
- Volume/Cycle: 6.1 oz. (180.2 ml)
- Cycles Per Gallon: 21
- Flow @ 60 Cycles/Min: 2.86 GPM (10.814 l.p.m.)
- Noise Level @ 100 PSI: 85 db(A)

**Materials of Construction 812390, 812395**

- Lower Pump Material: Stainless Steel
- Plunger Material: Stainless Steel
- Cylinder Material: Stainless Steel
- Packing Set: UHMW Polyethylene
  - Max. 120°F Fluid Inlet Temp. (Standard)
  - Max. 180°F Fluid Inlet Temp. (Optional)

**Available Accessories**

- Air Filter/Regulator: 849303
- Wall Mount Bracket (Stub Pump): 873116
- Fluid Filter: 841006
- Wet Sol Packing Lubricant: 836009
- Wall/Drum Mount Bracket for Drum Pumps: 873184

**Model Number A (mm) B (mm)**

- 812390: 28-1/8" (714.4) 9-23/32" (246.8)
- 812395: 51-21/32" (1312.1) 33-1/4" (844.6)
Infinity “N” Series Pump
Pump #812370 – 28:1 Ratio – 2800 PSI

Model 812370

Infinity “N” Series pumps are low cost, stainless steel pumps for light industrial air assist and airless applications.

■ Specifications

Model Series (refer to option chart) ........... 81237X
Type ......................... Air Operated, Two Ball
Ratio .......................... 28:1

Air Motor ......................... 842000
Motor Repair Kit ................. 861030
Motor Diameter ................. 3" (7.62 cm)
Stroke (Double Acting) ........... 3" (7.62 cm)
Air Inlet ......................... 1/4 - 18 N.P.T.F. - 1 (female)
Lower Pump End Series ....... 871050
Lower Pump Repair Kit ......... 861040
861041 (Leat., Tef.)
Material Inlet ..................... 1/2 - 14 N.P.T.F. - 1 (female)
Material Outlet ................. 1/4 - 18 N.P.S.M. - 1 (male)

■ Performance – 2800 PSI

Air Inlet Pressure Range ........... 0 - 150 PSI (0 - 10.3 bar)
Fluid Pressure Range .............. 0 - 4200 PSI (0 - 289.7 bar)
Max. Rec’d Cycles/Min. .............. 120
Displacement Per Cycle .......... 1.47 cu. in.
Volume/Cycle ...................... 0.81 oz. (24.1 ml)
Cycles Per Gallon ................. 157.5
Flow @ 60 Cycles/Min. .......... 0.38 GPM (1.44 l.p.m.)
Noise Level @ 100 PSI .......... 85 db(A)

■ Available Accessories

Air Filter/Regulator ............... 849303
Wall Mount Bracket .............. 873116
Fluid Filter ...................... 841006
Wet Sol Packing Lubricant ...... 836009

■ Materials of Construction

Lower Pump Material ............... Stainless Steel
Plunger Material .................. Stainless Steel
Cylinder Material ................ Stainless Steel
Packaging Set ..................... UHMW Polyethylene
Max. 120˚F Fluid Inlet Temp. (Standard)
Max. 180˚F Fluid Inlet Temp. (Optional)

Packing

Weight ......................... 13 lbs. (5.9 kgs.)

■ Air Assist Airless Pkg.

Part Numbers

Cart Mount Pkg
28:1 Ratio with .38 GPM @ 60 Cycles .......... 812180
Wall Mount Pkg
28:1 Ratio with .38 GPM @ 60 Cycles .......... 812190
Wall Mount Bracket ............... 873116
Air Filter/Regulator ................. 849303

■ Accessories Not Included

Siphon Kit
5 gallon ......................... 874504
Siphon Kits include: 5’ hose, SS fittings, tube and strainer

Infinity “N” Pump Packages

Part No. 812180
28:1 Cart Mount Package Includes: Pump, Cart,
Air Filter/Regulator, Pneumatic Shut Off Valve

Part No. 812190
28:1 Wall Mount Package Includes: Pump, Wall Mount Bracket, Pneumatic Shut Off Valve
**Vecter Spray Finishing Outfit 28:1**

*Air Assisted Airless Outfits – 2800 PSI*

*Infinity Pump on Cart & Infinity Pump with Wall Bracket*

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### Outfit Features
- 5-year pump warranty on all non-wear parts
- Hydraulically-assisted fluid delivery combined with HVLP air supply
- Maximum fluid pressure – 2800 PSI
- Pump supplies .38 GPM @ 60 CPM to supply tip sizes .009" to .017"
- Drop forged aluminum gun body, stainless steel fluid passages, nozzle and needle

### Outfit Benefits
- Stainless steel gun and pump
- Achieves fine finish and high efficiency
- Lightweight and easy to handle; gives operators superior control while fighting fatigue
- Works with lacquers, enamels, stains, sealers, and top coats
- Can spray light to heavy viscosity materials
- Can spray Air-assist or Airless
- For wood and metal finishing

### Part Numbers

**Infinity Pump on Cart** ........................................... 812180
**Infinity Pump with Wall Bracket** ............................. 812190
**Air Motor Repair Kit** ........................................... 861030
**Lower Pump Repair Kit** ......................................... 861040

**Recommended Accessories**
- **Fluid Regulator 300-2000 PSI** ............................... 84-420
- **Fluid Regulator 100-900 PSI** ............................... 84-520
- **Pump Outlet Fluid Filter** ....................................... 103-1241
- **Fluid Tip** .......................................................... 110-0908
  (Included in Package) ......................................... 110-1108
  .013 ........................................................................ 110-1308
  .015 ........................................................................ 110-1508
  .018 ........................................................................ 110-1808
- **Air Cap** .............................................................. 93 HA
- **Air Motor Repair Kit** ............................................. 861030
- **Lower Pump Repair Kit** ........................................ 861040

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**Part No. 98-3040**

Cart-mounted outfit (optional hoses shown above) is a complete finishing package for mobile flexibility. This outfit included pump, air controls, cart, gun filter, spray gun with tip and all standard hoses. Shipping weight 45 lbs.

**Part No. 98-3042**

Wall-mounted outfit (optional hoses shown above) is a complete finishing package for stationary applications. The small profile fits easily in tight spaces.
Infinity “Pogo” Plus Pump

Pump #812490, #812491 (Drum (SS)), #812470, #812471 (Drum (CS)), #812500, #812501 (Stub (SS)), #812480, #812481 (Stub (CS)) – Ratio 2:1 – 200 PSI  SS = Stainless Steel, CS = Carbon Steel

■ Performance – 200 PSI

Air Inlet Pressure .......... 0 - 150 PSI (0 - 10.3 bar)
Fluid Pressure Range ....... 0 - 300 PSI (0 - 24.2 bar)
Max. Cycles/Min. .................. 120
Displacement Per Cycle .............. 8.28 cu. in.
Volume Per Cycle ................. 4.59 ml (135.6 ml)
Cycles Per Gallon (liter) ............. 27.9
Flow @ 60 Cycles/Min. ........... 2.15 GPM (8.14 lpm)

■ Materials of Construction
81249X and 81245X (SS)

Cylinder Material .................. Stainless Steel
Plunger Material ................. 300 Series SS
Lower Pump Material .......... Carbon Steel
Noise Level @ 100 PSI .............. 80 db(A)

■ Dimensional Data

<table>
<thead>
<tr>
<th>Model</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>81247X</td>
<td>47-7/8&quot; (1214.8)</td>
<td>33-11/16&quot; (855.6)</td>
<td>19.6 (8.9)</td>
</tr>
<tr>
<td>81246X</td>
<td>34-2/16&quot; (868.0)</td>
<td>20-1/16&quot; (508.8)</td>
<td>17.5 (7.9)</td>
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<tr>
<td>81249X</td>
<td>47-3/4&quot; (1211.8)</td>
<td>33-11/16&quot; (855.6)</td>
<td>22.5 (10.2)</td>
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<tr>
<td>81250X</td>
<td>33-7/8&quot; (859.9)</td>
<td>19-7/8&quot; (503.7)</td>
<td>17.2 (7.8)</td>
</tr>
</tbody>
</table>

■ Materials of Construction
81247X and 81248X (CS)

Cylinder Material .................. Carbon Steel
Plunger Material .................. Carbon Steel (Chrome Plated)
Max. 120˚ F Fluid Inlet Temp. (Standard)
Max. Cycles/Min. .................. 120
Displacement Per Cycle .............. 8.28 cu. in.
Volume Per Cycle ................. 4.59 ml (135.6 ml)
Cycles Per Gallon (liter) ............. 27.9
Flow @ 60 Cycles/Min. ........... 2.15 GPM (8.14 lpm)

■ Materials of Construction
81249X and 81245X (SS)

Cylinder Material .................. Stainless Steel
Plunger Material ................. 300 Series SS
Lower Pump Material .......... Carbon Steel
Noise Level @ 100 PSI .............. 80 db(A)

■ Materials of Construction
81247X and 81248X (CS)

Lower Pump Material .......... Carbon Steel
Plunger Material .................. Carbon Steel (Chrome Plated)
Cylinder Material .................. Carbon Steel
Max. 120˚ F Fluid Inlet Temp. (Standard)
Max. Cycles/Min. .................. 120
Displacement Per Cycle .............. 8.28 cu. in.
Volume Per Cycle ................. 4.59 ml (135.6 ml)
Cycles Per Gallon (liter) ............. 27.9
Flow @ 60 Cycles/Min. ........... 2.15 GPM (8.14 lpm)

■ Part Numbers for
81247X and 81248X (CS)

Lower Pump Assembly (End Series)
812470 .......................... 871150
812471 .......................... 871151
812480 .......................... 871160
812481 .......................... 871161
Lower Pump Repair Kit .................. 86113X

■ Available Accessories

Air Control .................. 41-15931
Muffler .................. 873191
Wall Mount or Open Drum Mount Bracket .................. 873184

■ Pogo Plus Spray Finishing Outfit Model #98-3061

General Description
Excellent for solvent based adhesives. This (55) gallon bung system is complete with 2001 SS spray gun w/66SS x 66SD-3 set-up, 2:1 ratio supply pump with air control and 25 ft. fluid and air hose assemblies.

Air Motor .................. 842010
Air Motor Repair Kit .................. 861150
Lower Pump Assembly (End Series)
812470 .......................... 871130
812471 .......................... 871131
812480 .......................... 871140
812481 .......................... 871141
Lower Pump Repair Kit .................. 86114X

Part Numbers for
81247X and 81248X (SS)

Air Motor .................. 842010
Air Motor Repair Kit .................. 861150
Lower Pump Assembly (End Series)
812490 .......................... 871130
812491 .......................... 871131
812500 .......................... 871140
812501 .......................... 871141
Lower Pump Repair Kit .................. 86114X

■ Performance – 200 PSI

Air Inlet Pressure .......... 0 - 150 PSI (0 - 10.3 bar)
Fluid Pressure Range ....... 0 - 300 PSI (0 - 24.2 bar)
Max. Cycles/Min. .................. 120
Displacement Per Cycle .............. 8.28 cu. in.
Volume Per Cycle ................. 4.59 ml (135.6 ml)
Cycles Per Gallon (liter) ............. 27.9
Flow @ 60 Cycles/Min. ........... 2.15 GPM (8.14 lpm)

■ Materials of Construction
81249X and 81245X (SS)

Cylinder Material .................. Stainless Steel
Plunger Material ................. 300 Series SS
Lower Pump Material .......... Carbon Steel
Noise Level @ 100 PSI .............. 80 db(A)

■ Materials of Construction
81247X and 81248X (CS)

Lower Pump Material .......... Carbon Steel
Plunger Material .................. Carbon Steel (Chrome Plated)
Cylinder Material .................. Carbon Steel
Max. 120˚ F Fluid Inlet Temp. (Standard)
Max. Cycles/Min. .................. 120
Displacement Per Cycle .............. 8.28 cu. in.
Volume Per Cycle ................. 4.59 ml (135.6 ml)
Cycles Per Gallon (liter) ............. 27.9
Flow @ 60 Cycles/Min. ........... 2.15 GPM (8.14 lpm)

■ Materials of Construction
81249X and 81245X (SS)

Cylinder Material .................. Stainless Steel
Plunger Material ................. 300 Series SS
Lower Pump Material .......... Carbon Steel
Noise Level @ 100 PSI .............. 80 db(A)

■ Materials of Construction
81247X and 81248X (CS)

Lower Pump Material .......... Carbon Steel
Plunger Material .................. Carbon Steel (Chrome Plated)
Cylinder Material .................. Carbon Steel
Max. 120˚ F Fluid Inlet Temp. (Standard)
Max. Cycles/Min. .................. 120
Displacement Per Cycle .............. 8.28 cu. in.
Volume Per Cycle ................. 4.59 ml (135.6 ml)
Cycles Per Gallon (liter) ............. 27.9
Flow @ 60 Cycles/Min. ........... 2.15 GPM (8.14 lpm)
Infinity 11:1 Two-Ball Pump
Pump #812315 – Ratio 11:1 – 1100 PSI

Performance – 1100 PSI
Air Inlet Pressure ........... 30 - 150 PSI (2 - 10.2 bar)
 Fluid Pressure ........... 330 - 1650 PSI (22.4 - 112.2 bar)
Max. Cycles/Min. .................. 60
Displacement Per Cycle
  14.5 cu. in ....................... (238 cm³)
  8 oz. .......................... (238 ml)
  .06 gal ......................... (.23 liter)
Cycles Per Gallon (Liter) ............... 16 (4.2)
Flow @ 60 Cycles/Min. ........... 3.77 GPM (13.9 lpm)
Noise Level with muffler
@ 60 PSI @ 40 Cycles/Min. .......... 81.8 db(A)

Materials of Construction
Lower Pump Material ........... 316 SS Stns. Steel
Plunger Material ................. 17-4 Stns. Steel,
 UltraCoat™ Ceramic Coating
Cylinder Material ................. 316 Stns. Steel,
 UltraCoat™ Ceramic Coating
Packing Set ..................... UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp. (Standard)
Max. 180˚ F Fluid Inlet Temp. (Optional)
Weight ............................. .429 lbs. (19.5 kgs.)

Part Numbers
Air Motor .............................. 842001
Air Motor Repair Kit ............. 861031
Lower Pump Assembly .......... 871002
Lower Pump Repair Kit (UHMW) .... 861000
Optional Lower Pump Repair Kit
PTFE/Leather (Upper and Lower) .... 861001

Available Accessories
Air Filter/Regulator ............... 849303
Wall Mount Bracket ............... 873115
Mounting Post ..................... 873185
Cart ............................... 873186
Muffler .............................. 873158
Fluid Filter ......................... 841006
Wet Sol Packing Lubricant ........ 863009
Siphon Kits
  5 gallon ....................... 874500
  55 gallon ..................... 874501
Siphon Kits Include: 5’ hose, SS fittings,
tube and strainer

Infinity 11:1 Two-Ball Pump
Cycles Per Minute (CPM)

Flow (GPM) Gallons Per Minute
(F 1 US Gallon = 3.785 Liters)
Shaded Area is Operating Range
Infinity 22:1 Two-Ball Pump
Pump #812325 – Ratio 22:1 – 2200 PSI

Performance – 2200 PSI
- Air Inlet Pressure: 30 - 150 PSI (2 - 10.2 bar)
- Fluid Pressure: 660 - 3300 PSI (44.8 - 224.4 bar)
- Max. Cycles/Min.: 60
- Displacement Per Cycle: 7.5 cu. in. (122.9 cm³)
- Flow: 1.9 GPM (7.2 lpm)
- Noise Level with muffler: 81.8 db(A)

Materials of Construction
- Lower Pump Material: 316 SS Stnls. Steel
- Plunger Material: 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material: 316 Stnls. Steel, UltraCoat™ Ceramic Coating
- Packing Set: UHMW Polyethylene
- Max. Fluid Inlet Temp.: 120˚ F (Standard)
- Max. Fluid Inlet Temp.: 180˚ F (Optional)
- Weight: 42.9 lbs. (19.5 kgs.)

Part Numbers
- Air Motor: 842001
- Air Motor Repair Kit: 861031
- Lower Pump Assembly: 871012
- Lower Pump Kit (UHMW): 861010
- Optional Lower Pump Repair Kit: 861011

Available Accessories
- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873115
- Mounting Post: 873185
- Cart: 873186
- Muffler: 873158
- Fluid Filter: 841006
- Wet Sol Packing Lubricant: 863009
- Siphon Kits: 874500, 874501
- Siphon Kits Include: 5’ hose, SS fittings, tube and strainer

Infinity 22:1 Two-Ball Pump
Cycles Per Minute (CPM)

Flow (GPM) Gallons Per Minute
(1 US Gallon = 3.785 Liters)

Shaded Area is Operating Range
Infinity 23:1 Two-Ball Pump

Pump #812335 – Ratio 23:1 – 2300 PSI

■ Performance – 2300 PSI

- Air Inlet Pressure ........ 30 - 150 PSI (2 - 10.2 bar)
- Fluid Pressure ........ 690 - 3450 PSI (46.9 - 234.6 bar)
- Max. Cycles/Min. ........ 60
- Displacement Per Cycle
  14.5 cu. in.......... (238 cm³)
  8 oz........... (238 ml)
  .06 gal........... (0.23 liter)
- Cycles Per Gallon (Liter) .... 15.9 (4.2)
- Flow @ 60 Cycles/Min. .......... 3.77 GPM (13.9 lpm)
- Noise Level with muffler
  @ 60 PSI @ 40 Cycles/Min. .......... 84.8 db(A)

■ Materials of Construction

- Lower Pump Material ........ 316 SS Stnls. Steel
- Plunger Material ........ 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material ........ 316 Stnls. Steel, UltraCoat™ Ceramic Coating
- Packing Set ........ UHMW Polyethylene
- Max. 120˚ F Fluid Inlet Temp. (Standard)
- Max. 180˚ F Fluid Inlet Temp. (Optional)
- Weight ........ 46.2 lbs. (21 kgs.)

■ Part Numbers

- Air Motor .................. 842002
- Air Motor Repair Kit ........ 861032
- Lower Pump Assembly .... 871002
- Lower Pump Repair Kit (UHMW) . 861000
- Optional Lower Pump Repair Kit
  PTFE/Leather (Upper and Lower) . 861001

■ Available Accessories

- Air Filter/Regulator ........ 849303
- Wall Mount .................. 873115
- Mounting Post ................. 873185
- Cart .................. 873186
- Muffler .................. 873158
- Fluid filter ................. 841006
- Wet Sol Packing Lubricant .... 863009
- Siphon Kits
  5 gallon .................. 874500
  55 gallon .................. 874501
- Siphon Kits Include: 5’ hose, SS fittings, tube and strainer

Infinity 23:1 Two Ball Pump

Cycles Per Minute (CPM)

- Fluid Pressure (PSI)
  0 2000 4000 6000 8000 10000 12000
  0 20 40 60 80 100 120

- Air Consumption (SCPM)
  0 20 40 60 80 100 120

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 liters)

Shaded Area is Operating Range
Infinity 23:1 Two-Ball Pump

Pump #812440 – Ratio 23:1 – 15 GPM – 2300 PSI

Performance – 2300 PSI

- **Air Inlet Pressure**: 30-90 PSI (2.1-6.1 bar) Max.
- **Fluid Pressure**: 690-2070 PSI (47.6-140.8 bar) Max.
- **Max. Cycles/Min.**: 70
- **Displacement Per Cycle**: 59.9 (981.5 cm³)
- **Cycles Per Gallon (Liter)**: 3.8 (1.01)
- **Flow @ 60 Cycles/Min.**: 15 GPM (56.7 lpm)
- **Noise Level with Muffler @ 60 PSI @ 40 Cycles/Min.**: 88 dB(A)

Materials of Construction

- **Lower Pump Material**: 316 SS Stnls. Steel
- **Plunger Material**: 15-5 Stnls. Steel, ChromePlated
- **Cylinder Material**: 15-5 Stnls. Steel, ChromePlated
- **Material Inlet**: 2” NPT (M)
- **Material Outlet**: 1-1/4” NPT (F)
- **Weight**: 140 lbs. (63.6 kgs.)

Part Numbers

- **Air Motor**: 842007
- **Air Motor Repair Kit**: 851086
- **Lower Pump Assembly**: 871100
- **Lower Pump Repair Kit, UHMW**: 861100
- **Lower Pump Repair Kit, PTFE**: 861101

Available Accessories

- **Air Filter/Regulator**: 849303
- **Wall Mount Bracket**: 873189
- **Muffler**: 873364
- **Wet Sol Packing Lubricant**: 863009

Cycles Per Minute (CPM)

<table>
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<tr>
<th>Cycles Per Minute</th>
<th>Fluid Pressure (PSI)</th>
<th>Air Consumption (SCFM)</th>
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</thead>
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<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>90</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>180</td>
<td>200</td>
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<tr>
<td>3</td>
<td>270</td>
<td>300</td>
</tr>
<tr>
<td>4</td>
<td>360</td>
<td>400</td>
</tr>
<tr>
<td>5</td>
<td>450</td>
<td>500</td>
</tr>
<tr>
<td>6</td>
<td>540</td>
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<td>7</td>
<td>630</td>
<td>700</td>
</tr>
<tr>
<td>8</td>
<td>720</td>
<td>800</td>
</tr>
</tbody>
</table>

Flow (GPM) Gallons Per Minute

- **FLOW (GPM)** Gallons Per Minute
- **(1 US Gallon = 3.785 Liters)**

Shaded Area is Operating Range
Infinity 30:1 Two-Ball Pump
Pump #812345 – Ratio 30:1 – 3000 PSI

Performance – 3000 PSI

- Air Inlet Pressure: 30 – 150 PSI (2 – 10.2 bar)
- Fluid Pressure: 900 – 4500 PSI (61.2 – 306.1 bar)
- Max. Cycles/Min.: 60
- Displacement Per Cycle:
  - 5.5 cu. in. (.091 liter)
  - 3 oz. (90.1 ml)
  - .024 gal. (.09 liter)
- Cycles Per Gallon (Liter): 41.9 (11)
- Flow @ 60 Cycles/Min.: 1.40 GPM (4.9 lpm)
- Noise Level with muffler @ 60 PSI @ 40 Cycles/Min.: 84.8 db(A)

Materials of Construction

- Lower Pump Material: 316 SS Stnls. Steel
- Plunger Material: 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material: 316 Stnls. Steel, UltraCoat™ Ceramic Coating
- Packing Set: UHMW Polyethylene
- Max. 120˚ F Fluid Inlet Temp. (Standard)
- Max. 180˚ F Fluid Inlet Temp. (Optional)
- Weight: 42.9 lbs. (21 kgs.)

Part Numbers

- Air Motor: 842001
- Air Motor Repair Kit: 861031
- Lower Pump Assembly: 871022
- Lower Pump Repair Kit (UHMW): 861020
- Optional Lower Pump Repair Kit: 861021

Available Accessories

- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873115
- Mounting Post: 873185
- Cart: 873186
- Muffler: 873158
- Fluid filter: 841006
- Wet Sol Packing Lubricant: 863009
- Siphon Kits
  - 5 gallon: 874500
  - 55 gallon: 874501
- Siphon Kits Include: 5’ hose, SS fittings, tube and strainer

Infinity 30:1 Two Ball Pump
Cycles Per Minute (CPM)

Infinity 30:1 Two Ball Pump
Fluid Pressure (PSI)
Air Consumption (SCFM)

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 liters)
Shaded Area is Operating Range
Infinity 40:1 Two-Ball Pump

Pump #812415 – Ratio 40:1 – 4000 PSI

- **Performance – 4000 PSI**
  - Air Inlet Pressure ............... 30 - 120 PSI (2 - 8.1 bar)
  - Fluid Pressure ................. 1200 - 4800 PSI (81.6 - 326.5 bar)
  - Max. Cycles/Min. ................. 60
  - Displacement Per Cycle
    - 14.5 cu. in. ......................... (238 cm³)
    - 8 oz. .................................. (238 ml)
    - 0.06 gal. .......................... (0.23 liter)
  - Cycles Per Gallon (Liter) ........... 16 (4.2)
  - Flow @ 60 Cycles/Min. .............. 3.77 GPM (13.9 lpm)
  - Noise Level with muffler
    - @ 60 PSI @ 40 Cycles/Min. ........ 89.9 db(A)

- **Materials of Construction**
  - Lower Pump Material ............... 316 SS Stainless Steel
  - Plunger Material .................. 17-4 Stainless Steel, UltraCoat™ Ceramic Coating
  - Cylinder Material ................. 316 Stainless Steel, UltraCoat™ Ceramic Coating
  - Packing Set .......................... UHMW Polyethylene
  - Max. 120˚ F Fluid Inlet Temp. (Standard)
  - Max. 180˚ F Fluid Inlet Temp. (Optional)
  - Weight .................................. 68.1 lbs. (30.9 kgs.)

- **Part Numbers**
  - Air Motor .............................. 842003
  - Air Motor Repair Kit ............... 861033
  - Lower Pump Assembly ............... 871003
  - Lower Pump Repair Kit (UHMW) .... 861000
  - Optional Lower Pump Repair Kit
    - PTFE/Leather (Upper and Lower) ......................... 861001

- **Available Accessories**
  - Air Filter/Regulator ................ 849303
  - Wall Mount Bracket .................. 873237
  - Mounting Post ......................... 873185
  - Cart .................................... 873238
  - Muffler .................................. 873190
  - Fluid filter ............................ 841006
  - Wet Sol Packing Lubricant .......... 863009
  - Siphon Kits
    - 5 gallon .................................. 874500
    - 55 gallon ............................... 874501
  - Siphon Kits Include: 5’ hose, SS fittings, tube and strainer

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Infinity 40:1 Two Ball Pump
Cycles Per Minute (CPM)

![Graph showing cycle per minute]
Infinity 45:1 Two-Ball Pump

Pump #812355 – Ratio 45:1 – 4500 PSI

Performance – 4500 PSI

- Air Inlet Pressure: 30 - 120 PSI (2 - 8.3 bar)
- Fluid Pressure: 1350 - 5400 PSI (91.8 - 367 bar)
- Max. Cycles/Min.: 60
- Displacement Per Stroke:
  - 7.5 cu. in. (122.9 cm³)
  - 4.1 oz. (122.9 ml)
  - .03 gal. (0.12 liter)
- Cycles Per Gallon (Liter): 30.9 (8.1)
- Flow @ 60 Cycles/Min.: 1.9 GPM (7.2 lpm)
- Noise Level with muffler:
  @ 60 PSI @ 40 Cycles/Min.: 84.8 db(A)

Materials of Construction

- Lower Pump Material: 316 SS Stnls. Steel
- Plunger Material: 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material: 316 Stnls. Steel, UltraCoat™ Ceramic Coating
- Packing Set: UHMW Polyethylene
- Max. 120˚ F Fluid Inlet Temp. (Standard)
- Max. 180˚ F Fluid Inlet Temp. (Optional)
- Weight: 46.2 lbs. (21 kgs.)

Part Numbers

- Air Motor: 842002
- Air Motor Repair Kit: 861032
- Lower Pump Assembly: 871012
- Lower Pump Repair Kit (UHMW): 861010
- Optional Lower Pump Repair Kit: 861011

Available Accessories

- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873115
- Mounting Post: 873185
- Cart: 873186
- Muffler: 873158
- Fluid filter: 841006
- Wet Sol Packing Lubricant: 863009
- Siphon Kits:
  - 5 gallon: 874500
  - 55 gallon: 874501
- Siphon Kits Include: 5’ hose, SS fittings, tube and strainer

SPECIAL ORDER PUMP
LONG LEAD TIME

Infinity 45:1 Two Ball Pump
Cycles Per Minute (CPM)

Air Consumption (SCFM)

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 liters)

Shaded Area is Operating Range
Infinity 60:1 Two-Ball Pump

Pump #812365 – Ratio 60:1 – 6000 PSI

Performance – 6000 PSI

Air Inlet Pressure ........................................ 30 - 100 PSI (2 - 6.9 bar)
Fluid Pressure ............................................. 1800 - 6000 PSI (122 - 408 bar)
Max. Cycles/Min. .......................................... 60

Displacement Per Cycle
5.5 cu. in. ..................................................... (90.1 cm³)
3 oz. .......................................................... (90.1 ml)
.024 gal ...................................................... (.09 liter)

Cycles Per Gallon (Liter) .................................. 41.9 (11)
Flow @ 60 Cycles/Min. .................................... 1.4 GPM (4.9 lpm)

Noise Level with muffler
@ 60 PSI @ 40 Cycles/Min. ......................... 84.8 db(A)

Materials of Construction

Lower Pump Material ..................................... 316 SS Stnls. Steel
Plunger Material ........................................... 17-4 Stnls. Steel,
UltraCoat™ Ceramic Coating
Cylinder Material ......................................... 316 Stnls. Steel,
UltraCoat™ Ceramic Coating
Packing Set .............................................. UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp. (Standard)
Max. 180˚ F Fluid Inlet Temp. (Optional)
Weight ...................................................... 46.2 lbs. (21 kgs.)

Part Numbers

Air Motor .................................................. 842002
Air Motor Repair Kit .................................. 861032
Lower Pump Assembly ............................. 871022
Lower Pump Repair Kit (UHMW) .......... 861020
Optional Lower Pump Repair Kit
PTFE/Leather (Upper and Lower) .......... 861021

Available Accessories

Air Filter/Regulator .................................... 849303
Wall Mount Bracket ................................. 873115
Mounting Post ......................................... 873185
Cart ......................................................... 873186
Muffler ..................................................... 873158
Fluid filter ............................................... 841006
Wet Sol Packing Lubricant ..................... 863009
Siphon Kits
5 gallon .................................................. 874500
55 gallon ................................................. 874500
Siphon Kits Include: 5’ hose, SS fittings, tube and strainer
Infinity Two-Ball Pump Packages
Wall Mounted

Wall Mount Package Includes
- Pump with UltraCoat™
- Wall Mount Bracket
- Muffler
- Air Filter/Regulator
- Stainless Steel Material Filter
- Manual Fluid Pressure Relief Valve
- Pneumatic Shut Off Valve
- Needle Valve

Accessories (Included)
- Wall Mount Bracket
  - for 4-1/4” and 6” motors .................................. 873115
  - for 8” motors ............................................... 873237
- Mufflers
  - for 4-1/4” and 6” air motors ............................ 873158
  - for 8” air motors .......................................... 873190
- Air Filter/Regulator (2) ...................................... 849303
- SS Fluid Filter w/100 mesh element ...................... 841006

Available Accessories*
- Siphon Kits
  - 5 gallon .................................................... 874500
  - 55 gallon .................................................. 874501
- Siphon kits include 5’ hose, SS fittings, tube and strainer
* Not included with packages

MODEL – 1100 PSI
I-4, 11:1 Ratio, 3.77 GPM ......................... 812115
TYPICAL APPLICATIONS
11:1 – used in air assist airless and lower-range airless systems with light to medium viscosity coatings. This pump can be used as a multi-gun supply pump in a circulating or a dead end system. Bare pump #812315

MODEL – 2200 PSI
I-4, 22:1 Ratio, 1.9 GPM ......................... 812125
TYPICAL APPLICATIONS
22:1 – used in air assist airless and mid-range airless systems with light to medium viscosity coatings. This pump can also be used in a circulating system or a dead end system. Bare pump #812325

MODEL – 2300 PSI
I-6, 23:1 Ratio, 3.77 GPM ......................... 812135
TYPICAL APPLICATIONS
23:1 – used in air assist airless and mid-range airless systems with light to medium viscosity coatings. This pump can be used as a multi-gun supply pump in a circulating or a dead end system. Bare pump #812335

MODEL – 2300 PSI
I-4, 30:1 Ratio, 1.5 GPM ......................... 812145
TYPICAL APPLICATIONS
30:1 – used in air assist airless and mid-high range airless systems with light, medium and high viscosity coatings. This pump can also be used in a circulating system or a dead end system. Bare pump #812345

MODEL – 4000 PSI
I-8, 40:1 Ratio, 3.77 GPM ......................... 812265
TYPICAL APPLICATIONS
40:1 – used in high-pressure systems with light, medium or high viscosity coatings. Typically an airless pump, can also supply air assisted airless. This pump can also be used in multi-gun circulating or a dead end system. Bare pump #812415

MODEL – 4500 PSI
I-6, 45:1 Ratio, 1.9 GPM ......................... 812155
TYPICAL APPLICATIONS
45:1 – used in high-pressure systems with light, medium or high viscosity coatings. Typically an airless pump, can also supply air assisted airless. This pump can also be used in a circulating system or a dead end system. Bare pump #812355

MODEL – 6000 PSI
60:1 Ratio, 1.4 GPM .............................. 812165
TYPICAL APPLICATIONS
60:1 – used in high-pressure systems with light, medium or high viscosity coatings. Typically an airless pump, can also supply air assisted airless. This pump can also be used in a circulating system or a dead end system. Bare pump #812360

Outfit – 1100 PSI
I-4, 30:1 Ratio, 1.5 GPM ......................... 98-3090
TYPICAL APPLICATIONS
Includes: 812145 pump package, 55 gallon siphon kit, 25’ air/fluid hose, AA 4000 spray gun w/.012” orifice x 10” wide fluid tip. Bare pump #812345
Infinity Two-Ball Pump Packages

Cart Mounted

Cart Mount Package Includes
- Pump
- Cart
- Muffler
- Air Filter/Regulator
- Stainless Steel Material Filter
- Manual Fluid Pressure Relief Valve
- Pneumatic Shut Off Valve
- Needle Valve

Accessories (Included)
- Carts
  - for 4-1/4" and 6" motors .......................... 873186
  - for 8" motors .................................. 873238
- Mufflers
  - for 4-1/4" and 6" air motors ..................... 873158
  - for 8" air motors .............................. 873190
- Air Filter/Regulator (2) .......................... 849303
- SS Fluid Filter w/100 mesh element ............ 841006

Available Accessories
- Siphon Kits
  - 5 gallon (included with packages) .......... 874500
  - 55 gallon (not included with packages) ..... 874501
- Siphon kits include 5’ hose, SS fittings, tube and strainer

MODEL – 1100 PSI
I-4, 11:1 Ratio, 3.77 GPM ......................... 812205
TYPICAL APPLICATIONS
11:1 – used in air assist airless and lower-range airless systems with light to medium viscosity coatings. This pump can be used as a multi-gun supply pump in a circulating or a dead end system. Bare pump #812315

MODEL – 2200 PSI
I-4, 22:1 Ratio, 1.9 GPM .......................... 812215
TYPICAL APPLICATIONS
22:1 – used in air assist airless and mid-range airless systems with light to medium viscosity coatings. This pump can also be used in a circulating system or a dead end system. Bare pump #812325

MODEL – 2300 PSI
I-6, 23:1 Ratio, 3.77 GPM ........................ 812225
TYPICAL APPLICATIONS
23:1 – used in air assist airless and mid-range airless systems with light to medium viscosity coatings. This pump can be used as a multi-gun supply pump in a circulating or a dead end system. Bare pump #812335

MODEL – 3000 PSI
I-4, 30:1 Ratio, 1.5 GPM .......................... 812235
TYPICAL APPLICATIONS
30:1 – used in air assist airless and mid-high range airless systems with light, medium and high viscosity coatings. Bare pump #812345

MODEL – 4000 PSI
I-8, 40:1 Ratio, 3.77 GPM ........................ 812275
TYPICAL APPLICATIONS
40:1 – used in high-pressure systems with light, medium or high viscosity coatings. Typically an airless pump, can also supply air assisted airless. This pump can also be used in a multi-gun, dead end system. Bare pump #812415

MODEL – 4500 PSI
I-6, 45:1 Ratio, 1.9 GPM .......................... 812245
TYPICAL APPLICATIONS
45:1 – used in high-pressure systems with light, medium or high viscosity coatings. Typically an airless pump, can also supply air assisted airless. Excellent choice for Corrosion Control applications. Bare pump #812355

MODEL – 6000 PSI
I-6, 60:1 Ratio, 1.5 GPM .......................... 812255
TYPICAL APPLICATIONS
60:1 – used in high-pressure systems with light, medium or high viscosity coatings. Typically an airless pump, can also supply air assisted airless. Excellent choice for Corrosion Control applications. Bare pump #812365
Infinity 2:1 Four-Ball Pump

Pump #814400 – Ratio 2:1 – 200 PSI

Performance – 200 PSI

- Air Inlet Pressure: 30 - 150 PSI (2.1 - 10.3 bar)
- Fluid Pressure: 60 - 312 PSI (4.1 - 21.5 bar)
- Max. Cycles/Min.: 60
- Displacement Per Cycle: 82.1 cu. in.
- Volume/Cycle: 45.5 oz. (1344 ml)
- Cycles Per Gallon: 2.8
- Flow @ 60 Cycles/Min.: 21.3 GPM (80.6 lpm)
- Noise Level with muffler: 81.8 db(A)

Materials of Construction

- Lower Pump Material: 316 SS Stnls. Steel
- Plunger Material: 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material: 316 Stnls. Steel, UltraCoat™ Ceramic Coating
- Packing Set: UHMW Polyethylene
- Max. 120˚ F Fluid Inlet Temp. (Standard)
- Max. 180˚ F Fluid Inlet Temp. (Optional)
- Weight: 68 lbs. (30.8 kgs.)

Part Numbers

- Air Motor: 842001
- Air Motor Repair Kit: 861031
- Lower Pump Assembly: 871030
- Lower Pump Repair Kit, UHMW: 861060
- Optional Lower Pump Repair Kit: 861061

Available Accessories

- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873115
- Mounting Post: 873185
- Muffler: 873158
- Fluid filter: 841006
- Wet Sol Packing Lubricant: 863009

Infinity 2:1 Four Ball Pump
Cycles Per Minute (CPM)

Fluid Pressure (PSI)

Air Consumption (SCFM)

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 Liters)

Shaded Area is Operating Range
**Infinity 3:1 Four-Ball Pump**

**Pump #814410 – Ratio 3:1 – 300 PSI**

- **Performance – 300 PSI**
  - Air Inlet Pressure: 30 - 150 PSI (2.1 - 10.2 bar)
  - Fluid Pressure: 90 - 450 PSI (6.1 - 30.6 bar)
  - Max. Cycles/Min.: 60
  - Displacement Per Cycle: 112.7 cu. in. (1846.8 cm³)
  - 62 oz. (1846.8 ml)
  - 0.49 gal. (1.8 liters)
  - Cycles Per Gallon/Liter: 2.05 (.54)
  - Flow @ 60 Cycles/Min.: 29.3 GPM (110.8 lpm)
  - Noise Level with muffler @ 60 PSI @ 40 Cycles/Min.: 84.8 db(A)

- **Materials of Construction**
  - Lower Pump Material: 316 SS Stnls. Steel
  - Plunger Material: 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
  - Cylinder Material: 316 Stnls. Steel, UltraCoat™ Ceramic Coating
  - Packing Set: UHMW Polyethylene
  - Max. 120˚ F Fluid Inlet Temp. (Standard)
  - Max. 180˚ F Fluid Inlet Temp. (Optional)
  - Weight: 73.25 lbs. (33.2 kgs.)

- **Part Numbers**
  - Air Motor: 842002
  - Air Motor Repair Kit: 861032
  - Lower Pump Assembly: 871040
  - Lower Pump Repair Kit (UHMW): 861070
  - Optional Lower Pump Repair Kit: 861071

- **Available Accessories**
  - Air Filter/Regulator: 849303
  - Wall Mount Bracket: 873115
  - Mounting Post: 873185
  - Muffler: 873158
  - Fluid filter: 841006
  - Wet Sol Packing Lubricant: 863009

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**Infinity 3:1 Four-Ball Pump**

**Cycles Per Minute (CPM)**

**Fluid Pressure (PSI)**

**Flow (GPM) Gallons Per Minute**

(1 US Gallon = 3.785 liters)

Shaded Area is Operating Range
Infinity 4:1 Four-Ball Pump

Pump #814420 – Ratio 4:1 – 400 PSI

Performance – 400 PSI

- Air Inlet Pressure: 30 - 150 PSI (2.1 - 10.2 bar)
- Fluid Pressure: 120 - 600 PSI (8.1 - 40.8 bar)
- Max. Cycles/Min.: 60
- Displacement Per Cycle:
  - 82.1 cu. in. = 1345 cm³
  - 45 oz. = 1345 ml
  - .36 gal. = 1.34 liters
- Cycles Per Gallon (Liter): 2.8 (.74)
- Flow @ 60 Cycles/Min.: 21.3 GPM (80.6 lpm)
- Noise Level with muffler @ 60 PSI @ 40 Cycles/Min.: 84.8 db(A)

Materials of Construction

- Lower Pump Material: 316 SS Stns. Steel
- Plunger Material: 17-4 Stns. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material: 316 Stns. Steel, UltraCoat™ Ceramic Coating
- Packing Set: UHMW Polyethylene
- Max. 120˚ F Fluid Inlet Temp. (Standard)
- Max. 180˚ F Fluid Inlet Temp. (Optional)
- Weight: 71.25 lbs. (32.3 kgs.)

Part Numbers

- Air Motor: 842002
- Air Motor Repair Kit: 861032
- Lower Pump Assembly: 871030
- Lower Pump Repair Kit (UHMW): 861060
  - Optional Lower Pump Repair Kit: 861061

Available Accessories

- Air Filter/Regulator: 849303
- Wall Mount Bracket: 873115
- Mounting Post: 873185
- Muffler: 873158
- Fluid filter: 841006
- Wet Sol Packing Lubricant: 863009

Infinity 4:1 Four Ball Pump
Cycles Per Minute (CPM)

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 Liters)

Shaded Area is Operating Range
Infinity 5:1 Four-Ball Pump

Pump #814430 – Ratio 5:1 – 500 PSI

- **Performance – 500 PSI**
  - Air Inlet Pressure: 30 - 120 PSI (2.1 - 8.3 bar)
  - Fluid Pressure: 150 - 702 PSI (10.3 - 48.4 bar)
  - Max. Cycles/Min.: 60
  - Displacement Per Cycle: 108.1 cu. in.
  - Volume/Cycle: 59.9 oz. (1771 ml)
  - Cycles Per Gallon: 2.1
  - Flow @ 60 Cycles/Min.: 28.1 GPM (106.3 lpm)
  - Noise Level with muffler: 89.8 db(A)

- **Materials of Construction**
  - Lower Pump Material: 316 SS Stnls. Steel
  - Plunger Material: 17-4 Stnls. Steel, UltraCoat™ Ceramic Coating
  - Cylinder Material: 316 Stnls. Steel, UltraCoat™ Ceramic Coating
  - Packing Set: UHMW Polyethylene
  - Max. 120˚ F Fluid Inlet Temp. (Standard)
  - Max. 180˚ F Fluid Inlet Temp. (Optional)
  - Weight: 96 lbs. (43.5 kgs.)

- **Part Numbers**
  - Air Motor: 842003
  - Air Motor Repair Kit: 861033
  - Lower Pump End Series: 871040
  - Lower Pump Repair Kit: 861070
  - Optional Lower Pump Repair Kit: 861076

- **Available Accessories**
  - Air Filter/Regulator: 849303
  - Wall Mount Bracket: 873115
  - Mounting Post: 873185
  - Muffler: 873158
  - Fluid filter: 841006
  - Wet Sol Packing Lubricant: 863009

**Infinity 5:1 Four Ball Pump**

Cycles Per Minute (CPM)

Fluid Pressure (PSI)

Air Consumption (SCFM)

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 Liters)

Shaded Area is Operating Range
Infinity 7:1 Four-Ball Pump
Pump #814440 – Ratio 7:1 – 700 PSI

- **Performance – 700 PSI**
  - Air Inlet Pressure: 30 - 120 PSI (2 - 8.1 bar)
  - Fluid Pressure: 210 - 840 PSI (14.2 - 57.1 bar)
  - Max. Cycles/Min.: 60
  - Displacement Per Cycle:
    - 77.5 cu. in. (1269 cm³)
    - 43 oz. (1269 ml)
    - .34 gal. (1.26 liters)
  - Cycles Per Gallon (Liter): 2.98 (.78)
  - Flow @ 60 Cycles/Min.: 20.1 GPM (76 lpm)
  - Noise Level with muffler:
    - @ 60 PSI @ 40 Cycles/Min.: 89.8 db(A)

- **Materials of Construction**
  - Lower Pump Material: 316 SS Stns. Steel
  - Plunger Material: 17-4 Stns. Steel, UltraCoat™ Ceramic Coating
  - Cylinder Material: 316 Stns. Steel, UltraCoat™ Ceramic Coating
  - Packing Set: UHMW Polyethylene
  - Max. 120˚ F Fluid Inlet Temp. (Standard)
  - Max. 180˚ F Fluid Inlet Temp. (Optional)
  - Weight: 94 lbs. (42.6 kgs.)

- **Part Numbers**
  - Air Motor: 842003
  - Air Motor Repair Kit: 861033
  - Lower Pump Assembly: 871031
  - Lower Pump Repair Kit (UHMW): 861065
  - Optional Lower Pump Repair Kit: 861066

- **Available Accessories**
  - Air Filter/Regulator: 849303
  - Wall Mount Bracket: 873189
  - Mounting Post: 873185
  - Muffler: 873190
  - Fluid filter: 841006
  - Wet Sol Packing Lubricant: 863009

- **Part Numbers**
  - Wall Mount Bracket: 873189
  - Mounting Post: 873185
  - Muffler: 873190
  - Fluid filter: 841006
  - Wet Sol Packing Lubricant: 863009

![Infinity 7:1 Four-Ball Pump Diagram](Image)

**Binks**

![Binks Logo](Image)
Infinity Four-Ball Pump Package

The All-Stainless Pump Built to Take on the Toughest Applications
Ceramic UltraCoat™ on Cylinder and Rod

■ Package Includes
- Pump
- Wall Mount Bracket
- Muffler
- Air Filter/Regulator
- Pneumatic Shut Off Valve

■ Accessories (Included)
Wall Mount Bracket
- for 4-1/4” and 6” motors ................. 873158
- for 8” motors ............................. 873190
Mufflers
- for 4-1/4” and 6” air motors ............. 873158
- for 8” air motors .......................... 873190
Air Filter/Regulator (2) ................... 849303

■ Available Accessories
SS Fluid Filter w/100 mesh element .... 841006
Siphon Kits
- 5 gallon ..................................... 874500
- 55 gallon ................................... 874501
Siphon kits include 5’ hose, SS fittings, tube and strainer

■ Markets Include
- Large Wood
- Office Furniture
- Large General Industrial
- Commercial Equipment
- Aerospace
- And More

■ Model
I-4, 2:1 Ratio/21.3 GPM – 200 PSI ........ 814100
Bare Pump #814400
I-6, 3:1 Ratio/29.3 GPM – 300 PSI ........ 814110
Bare Pump #814410
I-6, 4:1 Ratio/21.3 GPM – 400 PSI ........ 814120
Bare Pump #814420
I-8, 5:1 Ratio/28.0 GPM – 500 PSI ........ 814180
Bare Pump #814430
I-8, 7:1 Ratio/20.1 GPM – 700 PSI ........ 814190
Bare Pump #814440

■ Typical Applications
Used in conventional air, HVLP and air assist systems with light to medium viscosity coatings. These pumps can be used as a multi-gun supply pump in a circulating or a dead end system. Often used in larger, high production automated systems.
Infinity Four-Ball Hydraulic Pump
Pump #814450 – 200 PSI

814450 Hydraulic Four-Ball – Ratio 0.2:1 – 200 PSI

- Hydraulic Inlet Pressure Range: 50 - 1200 PSI (3.4 - 882.8 bar)
- Fluid Pressure Range: 10 - 278 PSI (.69 - 19.2 bar)
- Required H-power @ 50 cpm: 3.2 @ 1200 (82.8 bar)
- Hydraulic flow req’d @ 50 cpm: 4.9 gpm (32.9 lpm)
- Max. Rec’d Cycles/Min.: 50
- Displacement cu. in. Per Cycle: 103.6 (1697.6 cm³)
- Volume/Cycle: 57.4 oz. (1697 ml)
- Cycles Per Gallon (Liter): 2.23
- Flow @ 50 Cycles/Min.: 22.4 gpm (84.9 lpm)
- Maximum Hyd. Temp Limit: 130° F (54° C)
- Lower Pump Material: 316 SS Stns. Steel
- Plunger Material: 17-4 Stns. Steel, UltraCoat™ Ceramic Coating
- Cylinder Material: 316 Stns. Steel, UltraCoat™ Ceramic Coating
- Hydraulic Motor: 842008
- Motor Repair Kit: 861088
- Motor Size: 2.062 sq." (13.3 sq. cm)
- Stroke: 5.75" (14.6 cm)
- Hydraulic Inlet: 3/8"-18 NPT (F) (not shown)
- Hydraulic Return: 1/2"-14 NPT (F)
- Lower Pump End Series: 871040
- Lower Pump Repair Kit: 861070
- Material Inlet: 1-1/2" NPT (F) (female) and 2" P.T.F.E. SAE Short (male)
- Material Outlet: 1" NPT (F) (female)
- Weight: 72 lbs (32.7 Kgs.)

Available Accessories
- Wall Mount Bracket: 873386
- Mounting Post and Bracket: 873385

Hydraulic 0.2:1 Four-Ball Pump
Cycles Per Minute (CPM)

Performance based on 30 wt. oil at ambient temperature.

Hydraulic Oil Consumption (GPM)

FLOW (GPM) Gallons Per Minute
(1 US Gallon = 3.785 Liters)

Shaded Area is Operating Range
Infinity Four-Ball Hydraulic Pump

Pump #814460 – 300 PSI

814460 Hydraulic Four-Ball – Ratio 0.3:1 – 300 PSI

Hydraulic Inlet Pressure Range

50 - 1200 PSI (3.4 - 882.8 bar)

Fluid Pressure Range

15 - 386 PSI (1.0 - 26.6 bar)

Required H-power @ 50 cpm

3.2 @ 1200 (82.8 bar)

Hydraulic flow req’d @ 50 cpm

4.9 gpm (32.9 lpm)

Max. Rec’d Cycles/Min.

50

Displacement cu. in. Per Cycle

43.6 (1288 cm³)

Volume/Cycle

57.4 oz. (1697 ml)

Cycles Per Gallon (Liter)

2.9

Flow @ 50 Cycles/Min.

17.0 gpm (64.4 lpm)

Maximum Hyd. Temp Limit

130° F (54° C)

Lower Pump Material

316 SS Stns. Steel

Plunger Material

17-4 Stns. Steel, UltraCoat™ Ceramic Coating

Cylinder Material

316 Stns. Steel, UltraCoat™ Ceramic Coating

Hydraulic Motor

842008

Motor Repair Kit

861088

Motor Size

2.062 sq. “ (13.3 sq. cm)

Stroke

5.75” (14.6 cm)

Hydraulic Inlet

3/8”-18 NPT (F)

Hydraulic Return

1/2”-14 NPT (F)

Lower Pump End Series

871030

Lower Pump Repair Kit

861060

Material Inlet

1-1/2” NPT (F) (female) and 2” NPT (M) SAE Short (male)

Material Outlet

1” NPT (F) (female)

Weight

70 lbs (31.8 Kgs.)

Available Accessories

Wall Mount Bracket

873386

Mounting Post and Bracket

873385

Hydraulic Oil Consumption (GPM)

Performance based on 30 wt. oil at ambient temperature.

Flow Graph

FLOW (GPM) Gallons Per Minute

(1 US Gallon = 3.785 Liters)

Shaded Area is Operating Range

BINKS
### Wall Mounts

**873184**
Wall Mount Bracket Has 2" NPT (F) opening to accept bung type pumps. Bracket slips over rim of open head drum or can be wall mounted. Pump used with 2", “N” Series, and 4-1/4" air motor stub pumps fitted with bung adapters or 55-gallon bung type pumps.

**873135**
Wall Mount Bracket Used with 1-1/2" Diaphragm pumps.

**873115**
Wall Mount Bracket Used with 4-1/4" air motor and 6" air motor. Infinity two-ball, four-ball and 1" diaphragm pumps.

**873134**
Wall Mount Bracket Used with 3:1 diaphragm pump.

**873237**
Wall Mount Bracket Used with 8" Air Motor.

**873116**
Wall Mount Bracket Open front permits easy installation of pump. Can be bolted to wall at back or side of bracket. Used with all Infinity “N” Series, and 1/2" diaphragm pumps.

**873386**
Wall mount bracket for use with hydraulic motors (not shown)

### Post Mounts

**873185**
Mounting Post Floor stand mounting post with 4-1/4", 6" and 8" air motors. Pump used with Infinity two-ball and four-ball pumps.

**873385**
Mounting Post for hydraulic pumps.

### Portable Carts

**873186**
Portable Cart Will clear 28" (711 mm) openings Unique “chair” design distributes pump weight. Pumps used with 4 1/4" and 6" Air motor - two-ball.

**873238**
Portable Cart Pump used with 8" air motor.

### Air Motor Mufflers

**873191**
Reduces air exhaust noise level to acceptable OSHA standards.

**873191**
Used with 2" air motor, 2:1 ratio pumps
- Air Inlet NPT: 3/8" (M)
- Size, Inches (mm): 1-1/4 x 3-1/2 (32 x 89)

**873158**
Used with 4-1/4" and 6" air motor pumps
- Air Inlet NPT: 1-1/4" (M)
- Size, Inches (mm): 3-1/2 x 11-3/16 (89 x 284)

**873190**
Used with 8" air motor pumps
- Air Inlet NPT: 1-1/4" (M)
- Size, Inches (mm): 5-5/8 x 15-3/8 (143 x 391)

### Wet Sol “Plus”

**863009**
Wet Sol Plus - One Quart Container. Designed to prolong packing life by keeping the piston rod and packings wetted. Also reduces the possibility of material hardening on the piston rod. Used with all pumps with wet cups.
### Air System Components

#### Air Filter/Regulator

849303
Filter/Regulator 5 micron filter, metal bowls
- **Port Size NPT** ............... 1/2" (F)
- **Reg. Pressure Range PSI (bar)** . 5-125 (3-8.5 bar)
- **Max. Flow** ............... 140 SCFM (66 dm³/s)

#### Accessories

- **Gauge**
  - 849306
  - **Gauge 0-160 PSIG** ............... 849306
  - **Glass Face**
- **Service Kit, Relieving Type** ............... 849305
- **Regulator Wall Mount Kit** ............... 849308
- **Automatic Drain** ............... 849309
- **Filter Element (5 Micron)** ............... 873209
- **Lubricator Connector Kit** ............... 849310
  - One Spacer Kit is required to connect any filters/regulator to lubricator.

#### Air Line Lubricant

849304
- **Use air line lubricants only in high duty cycles that have proven the need for lubrication. Use Binks air line lubricant only with Binks pumps. Features an adjustment needle on top of the transparent sight dome.**
  - **Oil Capacity** ............... 6 oz. (177 ml)
  - **Max. Inlet Pressure**
    - **Metal Bowl** ............... 175 PSIG (12 bar)
  - **Operating Temperature Range**
    - **Metal Bowl** ............... 0 to 175˚ F (-18 to 79˚ C)
  - **Max. Flow** ............... 1/2", 110 SCFM (52 dm³/s)

#### Safety Shutoff/Lockout Air Valve

849311
- **1/2" NPT Meets OSHA Lockout/Tagout regulation 1910.147. The safety shut-off valve should be installed upstream from the F-R-L unit.**
  - **Max. Inlet** ............... 175 PSIG (12 bar)
  - **Max. Temperature** ............... 0˚ to 125˚ F (-18˚ to 52˚ C)
- **Lockout Hasp** ............... 849312

#### Binks Scrubs Hand Cleaner Towels

29-3100-K6 – Case of six buckets
- **72 towel count per bucket**
- Binks Scrubs are the pre-moistened, heavy duty hand cleaner towels in a convenient bucket. Scrubs powerful, safe, patented citrus-based formula works together with an absorbent, non-scratching abrasive hand cleaner towel for proven performance.
**Fluid Regulators**

**HGB-508 Fluid Pressure Regulator Assembly**

![HGB-508 Fluid Pressure Regulator Assembly](image)

**Low Pressure Fluid Regulator**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>MATERIAL (WETTED PARTS)</th>
<th>INLET/OUTLET PORTS</th>
<th>INLET PRESSURE MAX</th>
<th>REG. OUTLET PRESSURE MAX</th>
<th>MAX. REG. FLUID FLOW</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGB-508*</td>
<td>Stainless Steel body PTFE and Nylon</td>
<td>3/8&quot;</td>
<td>175 psi</td>
<td>5-75 psi</td>
<td>8 gal./min.</td>
<td>SB-6-371</td>
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<tr>
<td>84-409*</td>
<td>Stainless Steel body Stainless Steel</td>
<td>3/8&quot;</td>
<td>200 psi</td>
<td>5-100 psi</td>
<td>1 gal./min.</td>
<td>1915</td>
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<tr>
<td>84-320*</td>
<td>Stainless Steel body Stainless Steel</td>
<td>3/8&quot;</td>
<td>200 psi</td>
<td>5-55 psi</td>
<td>1 gal./min.</td>
<td>1488</td>
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<tr>
<td>845020</td>
<td>Stainless Steel Tungsten Carbide</td>
<td>1/4&quot;</td>
<td>750 psi</td>
<td>0-30 psi</td>
<td>3 gal./min.</td>
<td>845020</td>
</tr>
<tr>
<td>84-410*</td>
<td>Stainless Steel body Stainless Steel</td>
<td>3/8&quot;</td>
<td>100 psi</td>
<td>1-12 psi</td>
<td>12 oz./min.</td>
<td>1921</td>
</tr>
</tbody>
</table>

* includes gauge

**HGS Fluid Regulators**

![HGS Fluid Regulators](image)

**Gun Mounted Regulator Models**

<table>
<thead>
<tr>
<th>STANDARD FLOW MODELS</th>
<th>CONTROL</th>
<th>FLUID INLET</th>
<th>FLUID OUTLET</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGS-5112</td>
<td>Air Pilot</td>
<td>1/4&quot; NPS(M)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5113</td>
<td>Air Pilot</td>
<td>1/4&quot; NPS(M)</td>
<td>Standpipe</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5122</td>
<td>Air Pilot</td>
<td>3/8&quot; NPS(M)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5132</td>
<td>Air Pilot</td>
<td>1/8&quot; NPT (F)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5133</td>
<td>Air Pilot</td>
<td>1/8&quot; NPT (F)</td>
<td>Standpipe</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5211</td>
<td>Manual Adjust</td>
<td>1/4&quot; NPS(M)</td>
<td>Bayonet†</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5212</td>
<td>Manual Adjust</td>
<td>1/4&quot; NPS(M)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5221</td>
<td>Manual Adjust</td>
<td>3/8&quot; NPS(MM)</td>
<td>Bayonet†</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5222</td>
<td>Manual Adjust</td>
<td>3/8&quot; NPS(MM)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5231</td>
<td>Manual Adjust</td>
<td>1/8&quot; NPT (F)</td>
<td>Bayonet†</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5232</td>
<td>Manual Adjust</td>
<td>1/8&quot; NPT (F)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5233</td>
<td>Manual Adjust</td>
<td>1/8&quot; NPT (F)</td>
<td>Standpipe</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5239*</td>
<td>Manual Adjust</td>
<td>3/8&quot; NPS(H)</td>
<td>3/8&quot; NPS(MM)</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5242</td>
<td>Manual Adjust</td>
<td>3/8&quot; NPS(M)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5312</td>
<td>Tamper Resist</td>
<td>1/4&quot; NPS(M)</td>
<td>3/8&quot; Swivel</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5313</td>
<td>Tamper Resist</td>
<td>1/4&quot; NPS(M)</td>
<td>Standpipe</td>
<td>SB-6-403</td>
</tr>
<tr>
<td>HGS-5521</td>
<td>Tamper Resist</td>
<td>3/8&quot; NPS(M)</td>
<td>Bayonet†</td>
<td>SB-6-403</td>
</tr>
</tbody>
</table>

* includes gauge

HGS Stainless Steel fluid regulators handle the highest fluid input pressure in the industry – up to 300 psi. And they deliver the broadest range of regulated output fluid pressure, from 2 to 100 psi.

*Manual, non-circulating, single gun fluid regulator, primarily used in conjunction with fluid pumps or dead end systems. Install at pump or tank, not gun. HGS-5242 can be mounted on the gun.
†Stems not included, purchase separately.
### Downstream Medium Flow

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-420</td>
<td>SS, TC</td>
<td>300-2000</td>
<td>No Gauge</td>
<td>3000</td>
<td>1908</td>
</tr>
<tr>
<td>84-520</td>
<td>SS, TC</td>
<td>100-900</td>
<td>No Gauge</td>
<td>3500</td>
<td>1908</td>
</tr>
</tbody>
</table>

**1/4" ports, medium pressure to 1 GPM (3.785 liters)**

**3/8" ports, medium pressure to 3 GPM (11.4 liters)**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>845010</td>
<td>SS, TC</td>
<td>400-1250 (27.2-83)</td>
<td>No Gauge</td>
<td>3000 (204)</td>
<td>84501X</td>
</tr>
<tr>
<td>845011</td>
<td>SS, TC</td>
<td>1000-3000 (59.2-207)</td>
<td>No Gauge</td>
<td>6000 (408)</td>
<td>84501X</td>
</tr>
<tr>
<td>845014</td>
<td>CS, TC</td>
<td>400-1250 (27.2-83)</td>
<td>No Gauge</td>
<td>3000 (204)</td>
<td>84501X</td>
</tr>
<tr>
<td>845004</td>
<td>SS, TC</td>
<td>20-60 (1.4-4.1)</td>
<td>60 PSI</td>
<td>750 (51.7)</td>
<td>84502X</td>
</tr>
</tbody>
</table>

### Downstream High Flow

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>845001* (6 GPM)</td>
<td>SS, TC</td>
<td>100-800 (7.55)</td>
<td>1000 PSI</td>
<td>1250 (85)</td>
<td>84500X</td>
</tr>
<tr>
<td>845013</td>
<td>SS, TC</td>
<td>2000-5000</td>
<td>No Gauge</td>
<td>6000</td>
<td>84501X</td>
</tr>
</tbody>
</table>

* includes gauge

### Back Pressure Models

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-421</td>
<td>SS, TC</td>
<td>300-2000</td>
<td>No Gauge</td>
<td>3500</td>
<td>1909</td>
</tr>
<tr>
<td>84-521</td>
<td>SS, TC</td>
<td>100-900</td>
<td>No Gauge</td>
<td>3500</td>
<td>1909</td>
</tr>
</tbody>
</table>

**1/4" ports, medium pressure regulator, flow to 1 GPM (3.78 liters)**

**3/8" ports, high-flow to 6 GPM (22.7 liters)**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>845000</td>
<td>SS, TC</td>
<td>0-200 (0-14)</td>
<td>300 PSI</td>
<td>200 (14)</td>
<td>84500X</td>
</tr>
<tr>
<td>845002*</td>
<td>SS, TC</td>
<td>0-800 (0-56)</td>
<td>1000 PSI</td>
<td>800 (56)</td>
<td>84500X</td>
</tr>
<tr>
<td>845012</td>
<td>SS, TC</td>
<td>100-3000</td>
<td>No Gauge</td>
<td>3000</td>
<td>84501X</td>
</tr>
</tbody>
</table>

**3/4" ports, high-flow to 11 GPM (41.6 liters)**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>84-601*</td>
<td>SS, SS</td>
<td>0-200 (0-14)</td>
<td>200 (14)</td>
<td>200 (14)</td>
<td>2629</td>
</tr>
<tr>
<td>84-404</td>
<td>SS, SS</td>
<td>10-140</td>
<td>200 PSI</td>
<td>150 (10)</td>
<td>1889</td>
</tr>
</tbody>
</table>

**Optional Gauges**: 84-426 – 0 - 200 PSI

**1-1/4" ports, system-flow** to 18.5 GPM (701 liters)

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BODY, BALL AND SEAT (SEE CODE AT BOTTOM)</th>
<th>REGULATED PRESSURE RANGE PSI (BAR)</th>
<th>GAUGE</th>
<th>MAXIMUM INLET PRESSURE PSI (BAR)</th>
<th>PART SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>845003</td>
<td>SS, TC</td>
<td>0-200 (0-14)</td>
<td>300 PSI</td>
<td>200 (14)</td>
<td>84500X</td>
</tr>
</tbody>
</table>

**Material Codes**

- **TC** – Tungsten Carbide
- **SS** – Stainless Steel

* includes gauge

**Flow rates tested in 55 CPS Material.**
Fluid Heaters & Accessories

High Pressure, lightweight (18 lbs.), compact and explosion-proof construction. Working capacity to 5000 PSI and with adjustable thermostatic control from 60°F to 250°F. The typical temperature rise with a flow of 32 fl. oz./min. while maintaining a temperature of 100% above ambient. (CSA listed, CE approved)

830000
Fluid Heater ........................................ 2000 watts
Wetted ........................................... Stainless Steel
Max Working PSI .................................. 5000 (340 bars)
Voltage ............................................ 120 (16.6 AMPS)

830001
Fluid Heater ........................................ 2000 watts
Wetted ........................................... Stainless Steel
Max Working PSI .................................. 5000 (340 bars)
Voltage ............................................ 240 (8.33 AMPS)

830002
Fluid Heater ........................................ 2000 watts
Wetted ........................................... Stainless Steel
Max Working PSI .................................. 5000 (340 bars)
Voltage ............................................ 440 (4.5 AMPS)
(Includes mounting bracket – all models)

Materials Filters, Screens & Inlet Fluid Filters

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>PORT INLET</th>
<th>PORT OUTLET</th>
<th>MESH</th>
<th>MICRONS (INCH)</th>
<th>MATERIAL</th>
<th>WORKING PSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>841001</td>
<td>Material Filter 1/2&quot; NPT (2 inlets) 1/2&quot; PTF SAE SPEC</td>
<td>70</td>
<td>—</td>
<td>carbon steel</td>
<td>6000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>841002</td>
<td>Material Filter 1/2&quot; NPT (2 inlets) 1/2&quot; PTF SAE SPEC</td>
<td>100</td>
<td>—</td>
<td>carbon steel</td>
<td>6000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>841005</td>
<td>Material Filter 1/2&quot; NPT (2 inlets) 1/2&quot; PTF SAE SPEC</td>
<td>70</td>
<td>—</td>
<td>stainless</td>
<td>6000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>841006</td>
<td>High Pressure Fluid filter 1/2&quot; NPT</td>
<td>1/2&quot; NPT</td>
<td>100</td>
<td>149 (.004)</td>
<td>stainless</td>
<td>6000</td>
<td></td>
</tr>
<tr>
<td>841010</td>
<td>Filter/Pulse Assembly 3/8&quot; NPT (F) 3/8&quot; NPT (F)</td>
<td>40</td>
<td>—</td>
<td>nylon and ss</td>
<td>150</td>
<td></td>
<td></td>
</tr>
<tr>
<td>103-1241</td>
<td>High pressure filter 3/8&quot; NPS (F) 1/4&quot; NPS (M)</td>
<td>100</td>
<td>280 (.012)</td>
<td>stainless</td>
<td>4000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>873188</td>
<td>For mounting material filter 1&quot; NPT (M) 1/2&quot; NPT (M)</td>
<td>30x40</td>
<td>500 (.023)</td>
<td>—</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Replacement Elements</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>873146</td>
<td>Replacement Fluid filter for 841005, 841001</td>
<td>70</td>
<td>200 (.008)</td>
<td>stainless</td>
<td></td>
<td></td>
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<tr>
<td>873147</td>
<td>Replacement Fluid filter for 841006, 841002</td>
<td>100</td>
<td>149 (.004)</td>
<td>stainless</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>83-2089</td>
<td>Replacement Fluid filter for 103-1241</td>
<td>50</td>
<td>280</td>
<td>stainless</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>83-1256</td>
<td>Replacement Fluid filter for 103-1241</td>
<td>100</td>
<td>149 (.004)</td>
<td>stainless</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gun Mounted – Material Filter Screens</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VS-534</td>
<td>Filter Assembly 3/8&quot; NPS (F) SW 3/8&quot; NPS (M)</td>
<td>100</td>
<td>149 (.004)</td>
<td>stainless</td>
<td>300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PLH-MF-6-100</td>
<td>Final Filter 3/8&quot; NPS (M) 3/8&quot; NPS (F)</td>
<td>100</td>
<td>149 (.004)</td>
<td>stainless</td>
<td>250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41-1415</td>
<td>In line high pressure filter 1/4&quot; NPS SWI 1-1/4&quot; NPS (M)</td>
<td>50</td>
<td>280 (.012)</td>
<td>stainless</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inlet Fluid filter – On Inlet Of Pickup Tube</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>873117</td>
<td>For siphon hose 874504 1/2&quot; NPT (F)</td>
<td>30</td>
<td>500 (.021)</td>
<td>stainless</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>873192</td>
<td>For siphon hose 874500 and 874501 3/4&quot; NPT (F)</td>
<td>30</td>
<td>500 (.021)</td>
<td>stainless</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Drum Agitators and Covers

**Agitators**

**31-129**
Direct drive agitator (with cover)

- Container Size: 55 Gallon
- Motor Specifications includes:
  - Air Motor Model: Direct
  - H.P.: 3/4
  - CFM: 10-14

**Shaft Specifications**
- Mount: Flange
- Diameter in. (mm): 1/2 (12/7)
- Length in. (mm): 12 (305)
- Material: 316SS

**Propeller Specifications**
- Number of Props: 2
- Diameter in. (mm): 4 (102)
- Material: 316SS
- Direction: CCW

---

**843000**
55 Gallon Agitator (not shown)

- Motor Specifications includes:
  - Air Motor Model: QMS-428
  - H.P.: 3/4
  - Motor R.P.M.: 300-3000

**Shaft Specifications**
- Mount: Hub
- Diameter in. (mm): 4 (102)
- Length in. (mm): 32 (813)
- Material: 316SS

**Propeller Specifications**
- Number of Props: 2
- Diameter in. (mm): 4 (102)
- Material: 316SS
- Direction: CCW

---

**31-131**
Gear reduced drive agitator (with cover)

- Container Size: 55 Gallon
- Motor Specifications includes:
  - Air Motor Model: Gear
  - H.P.: 1/2
  - CFM: 10-14

**Shaft Specifications**
- Mount: Flange
- Diameter in. (mm): 1/2 (12/7)
- Speed: 30 - 40

**Propeller Specifications**
- Number of Props: 2
- Diameter in. (mm): 14 1/2'
- Material: Stainless Steel

---

**Drum Covers**

**874502**
5 Gallon Stainless Steel Drum Cover.
Opening accepts optional Siphon Tube/Hose and Agitator.

**874503**
5 Gallon Stainless Steel Drum Cover for use with 1/2" diaphragm pump.

**874506**
55 Gallon Stainless Steel Drum Cover for use with 1/2" diaphragm pumps and bung mounted piston pumps such as 812490.

---

*83-1527 Muffler Replacement (metal)
Siphon Hose and Ball Valves

**Siphon Kits**

Hose length 5 ft.

**Stainless Steel Bunghole Adapter Kits**

- **41-15899**
  - Bunghole adapter for 1/2" pipe

- **41-15898**
  - Bunghole adapter for 3/4" pipe

- **41-15895**
  - Bunghole adapter for 1" pipe

  *All Hardware Included

**Ball Valves**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>SIZE</th>
<th>PRESSURE (PSI)</th>
<th>THREAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>72-83030</td>
<td>3/8&quot;</td>
<td>250</td>
<td>1/4&quot; (m) x 1/4&quot; (m)^</td>
</tr>
<tr>
<td>72-84040</td>
<td>3/8&quot;</td>
<td>250</td>
<td>3/8&quot; (m) x 3/8&quot; (m)^</td>
</tr>
<tr>
<td>72-13030</td>
<td>3/8&quot;</td>
<td>4000</td>
<td>1/4&quot; (m) x 1/4&quot; (m)^</td>
</tr>
<tr>
<td>72-14040</td>
<td>3/8&quot;</td>
<td>4000</td>
<td>3/8&quot; (m) x 3/8&quot; (m)^</td>
</tr>
<tr>
<td>172-33536*</td>
<td>3/8&quot;</td>
<td>4000</td>
<td>1/4&quot; (m) x 1/4&quot; (m)^</td>
</tr>
<tr>
<td>172-34545*</td>
<td>3/8&quot;</td>
<td>4000</td>
<td>3/8&quot; (m) x 3/8&quot; (m)^</td>
</tr>
</tbody>
</table>

* Stainless Steel
^ Universal Male Thread (accepts either NPS (F) or NPT (F))

**Surge Chambers and Lifts**

**Surge Chamber**

**Ground Wire Kit**

873067
25 feet of 12 gauge heavy-duty sheathed wire and wire end attachments.
For use with all pumps.

**Elevator**

873193
Mounting Pedestal – One mounting pedestal comes standard with the Shock Blocker. An extra 873193 is required for plumbing the Shock Blocker to 1-inch NPT (and larger) pipe.

844000
Reduce unwanted material foaming, pulsation, splashing and hydraulic shock.
- Up to 97% pulsation reduction
- Works with any 100 PSI pump

Body: Conductive acetal
Bladder Material: PTFE
Max. Pressure: 100 PSI

41-9000
Single Post Elevator use with 55-gallon cover mounted pump units
Precision engineered for maximum performance and durability, Binks air and fluid hose is your best choice for assuring that your equipment receives air and fluids at the specified pressures and volume levels.

- Air and fluid hose for a wide variety of applications.
- Static wire hose for uses requiring application grounding.
- Fluid hose for resinous materials with or without catalysts.

### Performance Benefits
- Better Tolerances
- Maximum Flexibility
- Oil Resistance
- Abrasion Resistance
- Kink Resistance
- Value-priced

### Premium Spray Finishing Air Hose

Designed for all finishing operations as well as rugged industrial applications, especially applications requiring lubricants in the airline supply or where oil and grease are present in the environment. Excellent for use with water and water-based materials. Temperature range from –40°F to +200°F (max.).

#### Tube
EPDM Class B oil resistance.

#### Cover
EPDM, red, smooth. Abrasion resistant. Oil Resistance.

#### Connections
Three-piece, plated brass, reusable.

### Hose Assemblies and Connections

<table>
<thead>
<tr>
<th>SIZES</th>
<th>LENGTH OF HOSE</th>
<th>HOSE ASSEMBLY PART NO.</th>
<th>CONNECTION THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>5 ft.</td>
<td>71-1101</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>25 ft.</td>
<td>71-1105</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>50 ft.</td>
<td>71-1106</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>5 ft.</td>
<td>71-1201</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>25 ft.</td>
<td>71-1205</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>50 ft.</td>
<td>71-1206</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>25 ft.</td>
<td>71-1355</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>50 ft.</td>
<td>71-1356</td>
<td>1/4&quot; NPS (F)</td>
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</table>

### Bulk Hose Chart

#### Smooth Cover

<table>
<thead>
<tr>
<th>SIZES AVAILABLE I.D. O.D.</th>
<th>BULK HOSE NUMBER</th>
<th>MAXIMUM WORKING PRESSURE (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>1/2&quot;</td>
<td>71-10000</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>5/8&quot;</td>
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<tr>
<td>3/8&quot;</td>
<td>11/16&quot;</td>
<td>71-12000</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>7/8&quot;</td>
<td>71-13000</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1 1/8&quot;</td>
<td>71-14000</td>
</tr>
</tbody>
</table>
Binks ErgoFlex™ HVLP Hose is suitable for use with all kinds of air-operated equipment, including those requiring lubricant in the air line, or in environments where oil and grease are present.

**Tube**

Black EPDM Class B – Oil Resistance.

**Cover**

Tan EPDM, smooth, Class C – Oil resistance.

**Connection**

One-piece, plated brass, reusable. (P-HC-4854)

### Bulk Hose Chart

<table>
<thead>
<tr>
<th>SIZES AVAILABLE</th>
<th>BULK HOSE NUMBER</th>
<th>MAXIMUM WORKING PRESSURE (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.D O.D.</td>
<td></td>
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</tr>
<tr>
<td>3/8&quot; .646&quot;</td>
<td>71-31000</td>
<td>125</td>
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### Hose Assemblies and Connections

<table>
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<th>SIZES OF HOSE</th>
<th>LENGTH OF HOSE</th>
<th>HOSE ASSEMBLY PART NO.</th>
<th>CONNECTION THREAD SIZE</th>
<th>THREAD SIZE</th>
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<tbody>
<tr>
<td>1/4&quot;</td>
<td>5 ft.</td>
<td>71-3380</td>
<td>3/8&quot; NPS (F)</td>
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<tr>
<td>1/4&quot;</td>
<td>25 ft.</td>
<td>71-3383</td>
<td>3/8&quot; NPS (F)</td>
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<tr>
<td>1/4&quot;</td>
<td>35 ft.</td>
<td>71-3390</td>
<td>3/8&quot; NPS (F)</td>
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<tr>
<td>1/4&quot;</td>
<td>50 ft.</td>
<td>71-3394</td>
<td>3/8&quot; NPS (F)</td>
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<tr>
<td>3/8&quot;</td>
<td>5 ft.</td>
<td>71-3300</td>
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<tr>
<td>3/8&quot;</td>
<td>25 ft.</td>
<td>71-3303</td>
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<tr>
<td>3/8&quot;</td>
<td>50 ft.</td>
<td>71-3304</td>
<td>3/8&quot; NPS (F)</td>
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<td>1/2&quot;</td>
<td>5 ft.</td>
<td>71-3400</td>
<td>1/2&quot; NPS (F)</td>
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</tr>
<tr>
<td>1/2&quot;</td>
<td>25 ft.</td>
<td>71-3403</td>
<td>1/2&quot; NPS (F)</td>
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<tr>
<td>1/2&quot;</td>
<td>50 ft.</td>
<td>71-3404</td>
<td>1/2&quot; NPS (F)</td>
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### Bulk Hose Chart

<table>
<thead>
<tr>
<th>SIZES AVAILABLE</th>
<th>BULK HOSE NUMBER</th>
<th>MAXIMUM WORKING PRESSURE (PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>I.D O.D.</td>
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<td></td>
</tr>
<tr>
<td>1/4&quot; 1/2&quot;</td>
<td>71-280</td>
<td>500</td>
</tr>
<tr>
<td>3/8&quot; 11/16&quot;</td>
<td>71-282</td>
<td>500</td>
</tr>
<tr>
<td>1/2&quot; 7/8&quot;</td>
<td>71-283</td>
<td>750</td>
</tr>
<tr>
<td>3/4&quot; 1 3/16&quot;</td>
<td>71-284</td>
<td>750</td>
</tr>
<tr>
<td>1&quot; 1 1/2&quot;</td>
<td>71-285</td>
<td>750</td>
</tr>
</tbody>
</table>

### Fluidall™ Fluid Hose

Premium, versatile fluid hose, for finishing operations plus a wide range of fluid applications. Fluidall™ is ideal for resins and solvents contained in latices, epoxies, urethanes, alkyds, primers, acrylics, polyesters, silicones, bitumastic coatings, oil and water based paints, lacquers, alcohol and latex coatings. Temperature range from 0°F to +190°F (max.).

**Tube**

Nylon.

**Cover**

Neoprene, Black, smooth, abrasion resistance. Class A – Oil Resistance.

**Connections**

Three-piece, plated brass, reusable.
Specialized Fluidall™ Hose Assemblies

Assembled Fluid Hose – Nylon Lined with Stainless Steel Connections

Fluidall™ fluid hose, for finishing operations plus a wide range of fluid applications. Temperature range -0°F to +190°F. Check recommended use for the stainless steel hose connections used on Fluidall™ hose assemblies to prevent corrosion-contamination, an inherent problem with waterborne coatings.

- **Tube**
  Nylon.

- **Cover**
  Black, synthetic, smooth, rubber. Class B – Oil Resistance.

- **Connections**
  Three-piece, stainless steel, reusable.

### Hose Assemblies and Connections

<table>
<thead>
<tr>
<th>SIZE I.D.</th>
<th>LENGTH OF HOSE</th>
<th>HOSE ASSEMBLY PART NO.</th>
<th>CONNECTION THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>15 ft.</td>
<td>71-3662</td>
<td>3/8” NPS (F)S</td>
</tr>
<tr>
<td>1/4”</td>
<td>25 ft.</td>
<td>71-3663</td>
<td>3/8” NPS (F)S</td>
</tr>
<tr>
<td>3/8”</td>
<td>15 ft.</td>
<td>71-3682</td>
<td>3/8” NPS (F)S</td>
</tr>
<tr>
<td>3/8”</td>
<td>25 ft.</td>
<td>71-3683</td>
<td>3/8” NPS (F)S</td>
</tr>
</tbody>
</table>

- **Connection**

Three-piece, plated brass, reusable should be used.

- **Hose Assembly and Connection**

<table>
<thead>
<tr>
<th>SIZE I.D. OF HOSE</th>
<th>LENGTH OF HOSE</th>
<th>HOSE ASSEMBLY PART NO.</th>
<th>CONNECTION THREAD SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>15 ft.</td>
<td>71-2810</td>
<td>1/4” NPS (F)S</td>
</tr>
</tbody>
</table>

- **Tube**
  EPDM. Class B – Oil Resistance.

- **Cover**
  EPDM red, smooth, abrasion resistance. – Oil Resistant.
High pressure paint spray applications, including electrical airless. Compatible with a wide range of materials, solvents and water based coatings. Designed for the most durable and extended service. Temperature range -40°F to +180°F.

- **Tube**

Nylon – this no-wire hose incorporates a nylon core tube with a conductive polymer surrounding it. Electrical conductivity will remain throughout the hose life.

- **Cover**

Polyurethane, white or yellow depending on hose I.D.

- **Connections**

Permanently attached, plated steel with spring guards.

## Hose Assemblies and Connections

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Length of Hose</th>
<th>Assembly Part No.</th>
<th>Hose Connection Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot;</td>
<td>30 in. whip end</td>
<td>71-8360*</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>5 ft.</td>
<td>71-8085</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>10 ft.</td>
<td>71-8086</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>15 ft.</td>
<td>71-8087</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>25 ft.</td>
<td>71-8088</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/16&quot;</td>
<td>50 ft.</td>
<td>71-8089</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>5 ft.</td>
<td>71-7708</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>10 ft.</td>
<td>71-7709</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>15 ft.</td>
<td>71-7703</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>25 ft.</td>
<td>71-7704</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>50 ft.</td>
<td>71-7705</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>75 ft.</td>
<td>71-7713</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>100 ft.</td>
<td>71-7714</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>10 ft.</td>
<td>71-7502</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>25 ft.</td>
<td>71-7504</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>50 ft.</td>
<td>71-7505</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>75 ft.</td>
<td>71-7506</td>
<td>1/4&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>5 ft.</td>
<td>71-8421</td>
<td>3/8&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>10 ft.</td>
<td>71-8422</td>
<td>3/8&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>15 ft.</td>
<td>71-8423</td>
<td>3/8&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>25 ft.</td>
<td>71-8424</td>
<td>3/8&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>50 ft.</td>
<td>71-8425</td>
<td>3/8&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>75 ft.</td>
<td>71-8426</td>
<td>3/8&quot; NPS (F)</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>100 ft.</td>
<td>71-8427</td>
<td>3/8&quot; NPS (F)</td>
</tr>
</tbody>
</table>

* Connection Thread = 1/4" NPS (F) x 1/4" NPT (M) w/30 deg. seat. • Bulk hose not available – assemblies only.

## Specifications

<table>
<thead>
<tr>
<th>I.D</th>
<th>O.D.</th>
<th>RATED W.P.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16&quot;</td>
<td>.425&quot;</td>
<td>3000 PSI</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>.520&quot;</td>
<td>3000 PSI</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>.588&quot;</td>
<td>3000 PSI</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>.730&quot;</td>
<td>3000 PSI</td>
</tr>
</tbody>
</table>

• White Jacket Color. ♦ Yellow Jacket Color.
Specialized Hose Assemblies
Contractor Quality Airless Paint Spray Hose Conductive – No Wire

Designed specifically for commercial and industrial painting contractors and heavy work load applications. Excellent flexibility and durability. For use with both solvent and water-based coatings.

- **Tube**
  Nylon.

- **Reinforcement and Cover**
  Consists of a seamless extruded synthetic braid reinforcement and a pin-pricked polyurethane cover. A static drain element consisting of flexible electrically conductive plastic tape is located between the braid layers. Cover-black. Operating temperature from 0°F to +200°F.

### Hose Assemblies and Connections

<table>
<thead>
<tr>
<th>Sizes of Hose</th>
<th>Length of Hose</th>
<th>Hose Assembly Part No.</th>
<th>Connection Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4”</td>
<td>25 ft.</td>
<td>71-3530</td>
<td>1/4” NPS (F)</td>
</tr>
<tr>
<td>1/4”</td>
<td>50 ft.</td>
<td>71-3531</td>
<td>1/4” NPS (F)</td>
</tr>
</tbody>
</table>

Working pressure 3,300 PSI.

Medium Pressure Paint Spray Hose Conductive – No Wire

For Raptor 18:1 outfit and other air assist airless applications where working pressures do not exceed 1740 psi.

- **Tube**
  Nylon.

- **Connections**
  1/4” Permanently attached, stainless steel with spring guards.

### Construction

Nylon tube reinforced with braided polyester yarn. Conductivity is by means of a conductive polymer strip. Resistant to most chemicals, paints and solvents. The blue outer cover is polyurethane and provides excellent abrasion resistance. Operating temperature from -40°F -212°F.

### Hose Assemblies and Connections

<table>
<thead>
<tr>
<th>I.D. O.D.</th>
<th>Length of Hose</th>
<th>Hose Assembly Part No.</th>
<th>Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/16” .380”</td>
<td>25’</td>
<td>71-4995</td>
<td>1/4” SS</td>
</tr>
</tbody>
</table>
## Reusable Connections

### Air & Fluid Hose Connections

<table>
<thead>
<tr>
<th>I.D.</th>
<th>HOSE SIZE</th>
<th>FOR BULK HOSE NO.</th>
<th>CONNECTIONS</th>
<th>PART NO.</th>
<th>TYPE</th>
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</thead>
<tbody>
<tr>
<td>1/4&quot;</td>
<td>1/2&quot;</td>
<td>71-10000</td>
<td>1/4&quot; NPS (F)</td>
<td>72-1303</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>71-280</td>
<td>3/8&quot; NPS (F)</td>
<td>72-1306</td>
<td>A</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3/8&quot; NPS (F)SS</td>
<td>72-2143*</td>
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<tr>
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<td>71-11000</td>
<td>1/4&quot; NPS (F)</td>
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<tr>
<td></td>
<td></td>
<td>71-20000</td>
<td>1/4&quot; NPT (M)</td>
<td>72-1478</td>
<td>B</td>
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<tr>
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<td>3/8&quot; NPS (F)</td>
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<td>11/16&quot;</td>
<td>71-12000</td>
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<td>3/8&quot; NPS (F)</td>
<td>72-1333</td>
<td>A</td>
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<td></td>
<td>72-283</td>
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<td></td>
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<td>72-9541*</td>
<td>C</td>
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<td>1-3/16&quot;</td>
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<td>72-13361</td>
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<td>71-284</td>
<td>3/4&quot; NPS (F)</td>
<td>72-4171</td>
<td>C</td>
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<td>72-9551*</td>
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<tr>
<td>1&quot;</td>
<td>1-1/2&quot;</td>
<td>71-285</td>
<td>1&quot; NPS (F)</td>
<td>72-4181</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1&quot; NPS (F)</td>
<td>72-9561*</td>
<td>C</td>
</tr>
</tbody>
</table>

† Punch-Lok connection.

* Stainless Steel tailpiece.

### Types

#### Type A. Plated Brass

![Type A. Plated Brass](image)

#### Type B. Plated Brass

![Type B. Plated Brass](image)

#### Type C. Plated Brass

![Type C. Plated Brass](image)
When it comes to complete systems, Binks leads the way with high transfer-efficient spray guns, reliable fluid handling equipment, efficient air purifying systems and quality accessories.

The Binks Mach spray gun series has set the industry standard for reliable low, medium and high-pressure HVLP spray finishing, offering the most complete line in the industry. Models 95 and 2001 spray guns remain the most popular conventional spray guns and feature our famous “60” series nozzles, capable of atomizing the full range of today’s coatings.

Today, Binks has redefined its place in the finishing industry with quality products and responsive customer service. Whether it’s furniture, aerospace, electronics, appliances or automotive finishing, Binks experts are waiting to match your needs with its products.

At Binks, we are a renewed company with a proud tradition.

### System Solutions

#### Spray Guns
- Manual and automatic conventional air spray and HVLP
- Manual and automatic airless and air-assisted airless
- Mastic and extrusion guns
- Plural component
- Anodized forged aluminum gun bodies
- Waterborne compatible, stainless steel passages
- Gravity feed, suction feed and pressure feed

#### Cups and Tanks
- Siphon cups, pressure cups
- Aluminum, stainless steel, agitated
- 2 qt. pressure cup
- 2 and 5-gal. pressure tanks

#### Pumps
- Diaphragm and piston
- Low, medium, and high pressure
- Variety of mounting accessories

#### Hose
- Fluid and air hose
- Ball and air-adjusting valves
- Quick disconnects, fittings, and connections

#### Additional Accessories
- Thread adapters
- Fluid nozzles, air caps, needle selections, extensions
- Educational tools and reference literature
- Replacement kits, test kits, regulators
- Respirators
- Spray booth filters
Sales and Service
Through a Nationwide Network of Industrial Distributors

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Fax 630-237-5003
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Technical Support
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