Infinity Finishing Pumps And Equipment

BINKS

Binks. Over 100 years of leadership and innovation.

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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 Bink's 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 centres 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 finalise 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 recognised spray finishing brands.

Training

The best finishing operation and equipment in the world can't perform to its 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 customised 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, our training courses 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.

Environmentally Responsible

Binks has long been concerned about protecting the planet for future generations. In fact, we strive to make our products as environmentally friendly as possible and actively support a number of ecology-minded groups.

Pump Basics for Smooth Operation

Your finishing pumps will be influenced by many factors. Keep in mind that the pump bears the ultimate burdens of drawing the material into the pump and moving the volume of material at a particular pressure to the application device, elevation changes, and frictional losses in the lines and valves. Consider the following details when selecting any pump.

Power Supply/ Adequate Volume

The power source of a pneumatically driven pump can affect its ability to maintain adequate fluid pressure and volume of the material being pumped. Problems are caused by an inadequate air supply. Do not place pumps at the end of long, small diameter air lines. A good rule of thumb for most pumps is that they require a minimum 30 PSI air pressure (measured while the pump is cycling) for operation. Binks pumps will operate as low as 10, in many applications

Air Treatment for Pump Operation

Over pneumatic pressurisation can result in excessive strain on the pump as the air motor cycles. This can contribute to premature pump failure. Use a regulator that keeps air pressure within specific parameters. Use a water separator and filter in the supply line to the pump. These will keep your pump in reliable working condition. Use air line lubricants only in heavy duty cycles that have proven the need for lubrication.

Use only Binks air line lubricant and lubricators with Binks pumps.

Flow Rates/Pressure

Oversize flow rate by 60 - 80% to increase longevity. The pump will last longer and consume less air if you operate the pump at the recommended continuous duty cycle rating, for non-abrasive materials. As a general guide, you want your pump to deliver 30% more fluid pressure than required by each application.

Resistance to Flow - Back Pressure

Resistance to flow is least when using large diameter pipe or tubing, configuring long runs without turns, using constant tubing or pipe size with long radius elbows. Avoid short, small turning radiuses, as found in a street elbow, and dramatic changes in internal diameter in short distances. A good rule of thumb is that fluid will flow smoothly after 7 x the pipe diameter. Try to spread out devices that cause turbulence. When you add all pressure drops this will give you the back pressure seen by the pump.

Be aware that some materials require high fluid velocity to keep the pigment in suspension.

Agitators

Agitate slowly, but efficiently and only when necessary. Position mixers 1" from the bottom with a 5-gallon pail, 6" from the bottom with a 55-gallon drum, and 90˚ to each other with multiple paddles. Use gear reduced drives for viscous materials. Provide lubricated and regulated air for heavy duty agitation of materials. Use stainless steel shafts and paddles made of materials compatible with waterborne coatings.

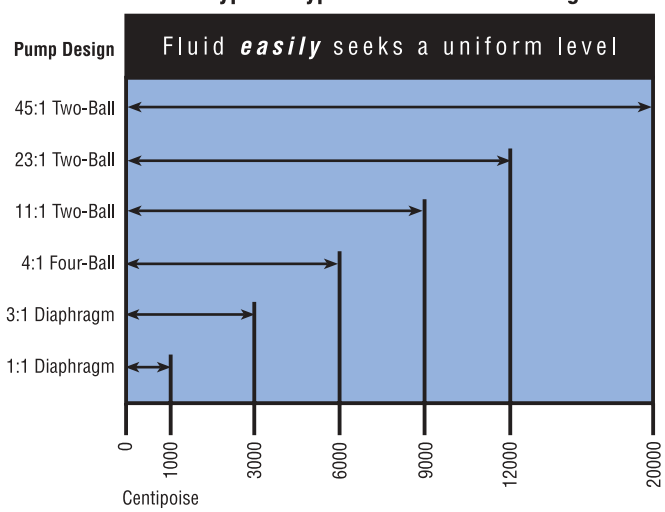
Pump Location

Position the pump inlet as close to the fluid source as possible. The ideal elevation of the pump inlet should be no greater than the height of the fluid source. Optimal fluid inlet positioning allows the coating to be gravity fed from the storage vessel or day tank.

Viscosity Control

Heaters can be used to maintain constant viscosity when the ambient temperature varies. Heat is used to reduce viscosity for consistent application of hard-to-atomise materials.

Typical Syphon Feed For Finishing



Pump Basics for Smooth Operation

Fluid Characteristics

Corrosive fluids chemically react with materials they contact. Failure to account for a fluid's corrosive characteristics can result in premature pump failure. Corrosiveness is measured in terms of its pH factor. In general, materials with a pH factor between six and eight are compatible with carbon steel components. Materials with pH factors below six or above eight are considered corrosive and require stainless steel components.

Abrasiveness refers to the material's ability to wear the surface it contacts. The abrasive qualities of a fluid are determined by the amount, size, and kind of solid particles contained in the fluid. The harder these particles are, the more abrasive the material will be. Small and similar sized particles can produce a lapping or polishing effect inside the pump. Although this will cause the pump to wear faster than non-abrasive materials, daily performance should not be affected. Materials with large, inconsistent, abrasive particles will cause rapid wear of internal pump components such as packings and piston rods. Pumps should be run at 1/2 the recommended continuous duty cycle rating to achieve better pump life, when using abrasive materials,

For selecting a material filter size a good rule of thumb is to first divide the fluid tip size by 2. The filter element screen should strain any particle of this size. For example: .020 (tip size) ÷ 2 = .010. Therefore a 70 mesh filter should be used.

Stability refers to a material's ability to hold its solids in suspension. High solid coatings can settle and separate. Use an agitator or recirculate the fluid through the system and back to the original container to prevent this settling. A good rule of thumb is to "turn" a 55 gallon drum one time per hour, in a circulating system.

Solvent Evaporation Rate affects how quickly a fluid dries. Some materials will form a solid layer, or skin, on the surface as their solvent evaporates. This skin can be pulled into the pump inlet and cause spray tips, filters, and other components to clog. Use a drum cover or agitator to reduce this problem. Most dirt comes from dried paint. Always recommend fluid outlet filters on the pump.

Tackiness (adhesion) is the ability of a material to adhere while wet. Use higher ratio pumps to provide the additional fluid pressure needed to transfer and atomise tacky fluids.

Polymer Diaphragm Pumps

Polymer diaphragm pumps are used for fluids with abrasive and/or shear sensitive materials.

Groundable Acetal Pumps are excellent lower cost pumps for use with flammable materials. Electrostatic build-up is transferred through the polymer to a single grounding point.

Polypropylene Pumps are an excellent low cost pump. Do not use to supply or clean up with flammable materials. An electrostatic charge can build up and can not safely transfer to a ground point.

Metallic Pumps

Carbon Steel Pumps have a limited role in solvent-based applications and are not suitable for waterborne applications.

Stainless Steel Pumps offer protection from corrosion when pumping today's preferred waterborne coatings. In addition, they offer the greatest future versatility for new coatings formulated due to regulation changes or enhanced production requirements. These pumps are available in three styles.

- *Hard Chrome Plating* - a proven performer for the full spectrum of non-abrasive to abrasive coatings. The plating is good for abrasive coatings in piston pumps with sliding components.

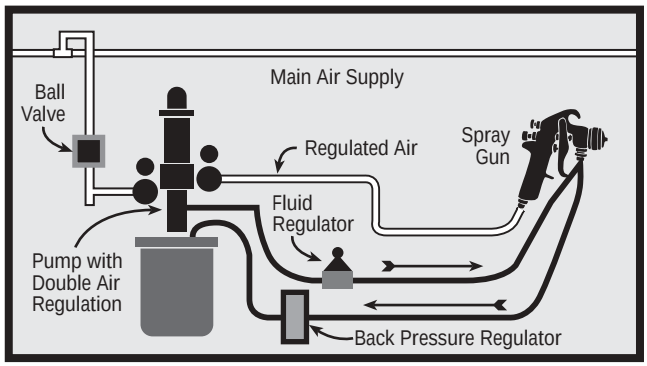
- *Ultra or Ceramic Coating* - the most durable surface available. Resists wear from highly abrasive fluids and reduces friction. The ultimate coating choice for sliding components in pumps.

- *Non-Coated Stainless Steel* - an economical option for lower production requirements such as small shops and repair areas.

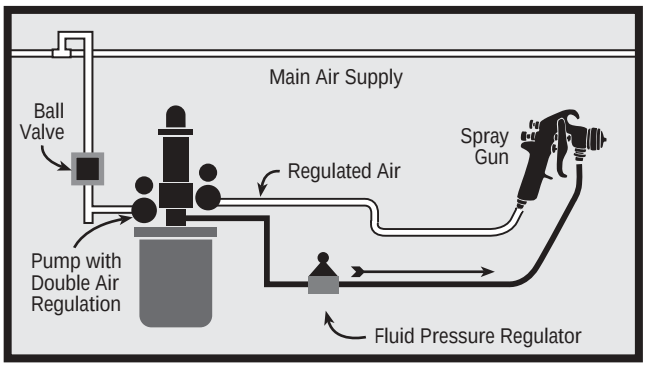
Aluminum Diaphragm Pumps an economical option for oils and water based fluids. They should not be used with halogenated hydrocarbons.

Pump Basics for Smooth Operation

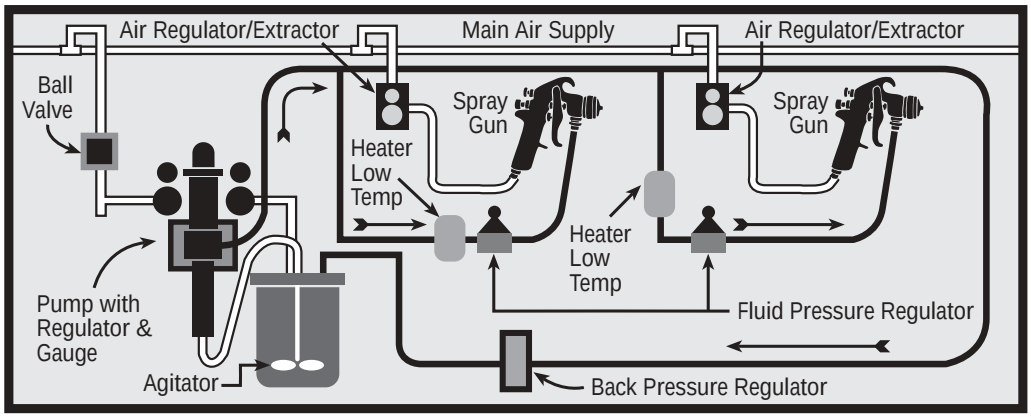
Double Air Regulation & Circulation Supply to Spray Gun



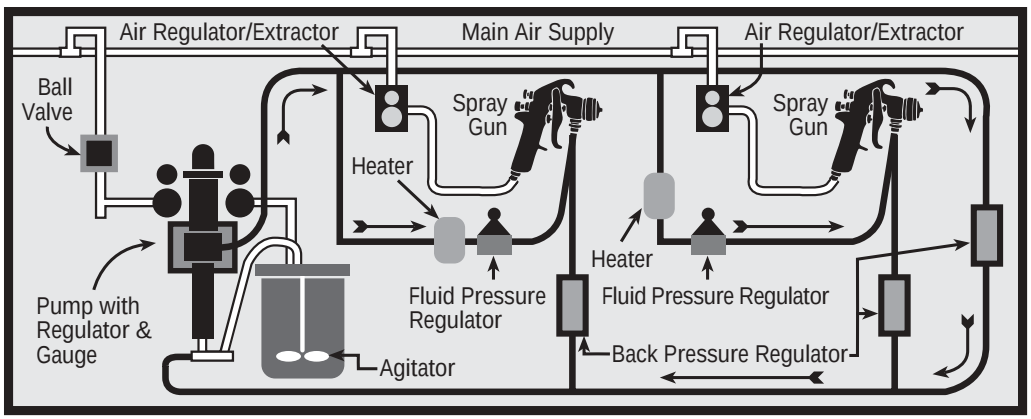
Double Air Regulation Dead End Supply to Spray Gun



Basic Circulating Loop with Dead End Supply to Spray Guns with Low Fluid Temperature



Basic Circulating Loop with Circulating Supply through the Spray Guns



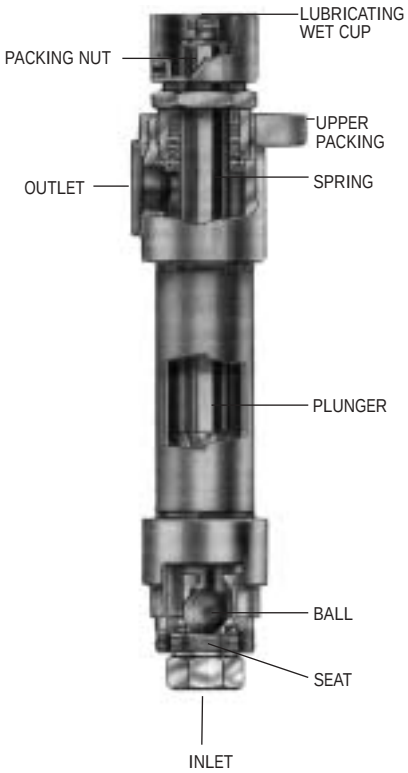
Types of Pumps

What are the Advantages of each type?

2-Ball Pumps

- Most common style in finishing
- 1-gun to multiple-gun application pumps
- Uses 2 balls as opposing check valves in one sequence or stroke. On the down stroke one ball allows material to flow into an unpressurised chamber, while the second ball blocks the path of the fluid to create a pressurised area and move fluid from chamber to chamber.

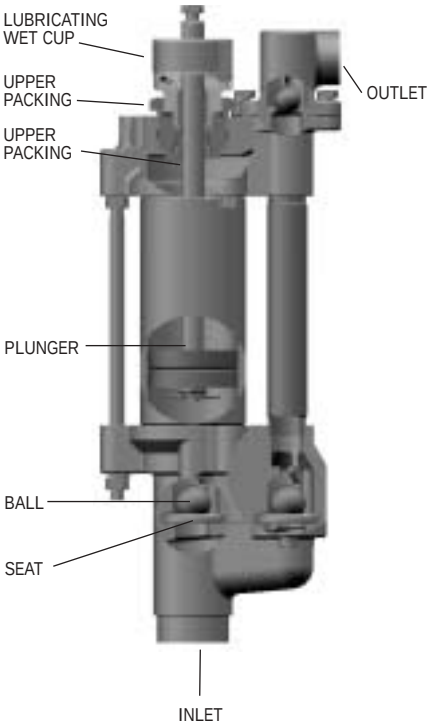
Lower Pump Section



4-Ball Pumps

- Typically used in higher volume finishing or fluid transfer applications
- Multi-gun or large circulation application pumps
- Uses 4 balls in pairs as opposing check valves. In each sequence or stroke, one set (2 balls) allows material to flow into an unpressurised chamber. The second set (2 balls) provides a pressurised flow path.
- Can be used in place of a 2-Ball Pump to increase overall pump life and high fluid delivery applications.

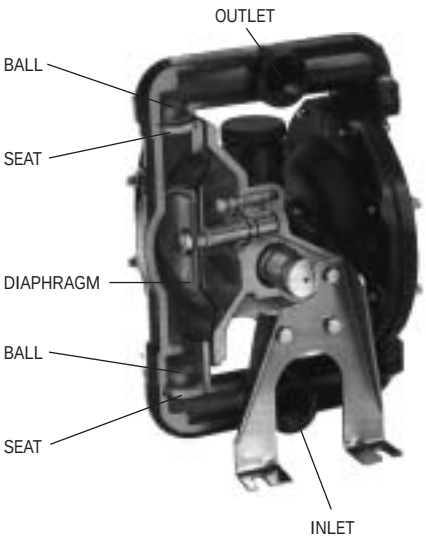
Lower Pump Section



Diaphragm Pumps

- Ideal for low pressure conventional or compliant/HVLP spray applications
- Used for high volume transfer
- Used in place of tanks when the application requires two or more tank refills per shift.
- Replaces 2-Ball “Pogo” Pump
- Used with typical low pressure Conventional or HVLP/Compliant applications.
  Use larger diaphragm pumps as volume increases.
- Durable, good for abrasive materials
- Large passages for shear sensitive materials
- Can be run dry with minimal problems

Diaphragm Cutaway



Binks Pump Families

Infinity™ 2-Ball

Our Infinity™ pumps live up to their name by providing maximum uptime in your finishing operation. Infinity's unique design offers unprecedented access to packings for easy maintenance. Infinity pumps are used in processes where materials are aggressive, corrosive, and abrasive . . . waterbornes, UV-cure, acid-cure, and catalysed coatings, anything that's caustic. Infinity pumps are a great value!

- All-stainless steel wetted components for waterborne compatibility
- Tungsten-carbide seats provide superior abrasion resistance and extended service life
- Priced at carbon steel pump rates
- ULTRA COATING on tube and plunger increases working life
- UHMW Polyethylene Fluid Seals
- Electropolished or passivated wetted parts for worry free fluid handling
- Easy-access plunger and packings - just remove the packing gland
- Easy-access lower ball valve check. Just loosen and remove the seat retainer
- Adjustable wave spring and guide on rod
- Low ice air motor which can be remotely exhausted
- Pressure ratios include: 11:1, 22:1, 23:1, 30:1, 40:1, 45:1, 60:1 and more.

Infinity™ 4-Ball

4-Ball Infinity™ series is ideal for the demands of high volume fluid transfer/recirculation operations. Infinity pumps keep your operation on line and on time. Applications include: waterborne paint circulation, solvent supply, DI water supply, and surface coating.

The Infinity 4-Ball series also includes these unique features:

- All stainless steel construction for waterborne compatibility
- 17-4 hardened stainless steel seats
- Low cost per litre/gallon
- Ultra-ceramic coating on piston and rods that outperforms hard chrome
- Passivated or electropolished stainless steel parts for optimum durability in the harshest working environments
- UHMW poly packing options for excellent material compatibility and maximum abrasion resistance
- 4-1/4", 6", and 8" air motors
- 6" air motor stroke (as opposed to standard competitive 4" or 4.7") insures longer service life by lowering wear rates
- Flow rates up to 29 GPM (143.8 LPM)
- Pressure ratios include 3:1, 4:1, and 7:1

Infinity™ Diaphragm Pump Packages

Infinity™ diaphragm pumps are the best choice for abrasion, solids handling, and shear sensitive materials. The Infinity series is ideal for the reliable and affordable spray or transfer of low pressure, high volume coatings. The pump will not be damaged in the event that the fluid supply has become depleted. Infinity supports one to multiple spray guns and bulk transfer applications.

- Stainless steel seats on all pumps
- Stainless steel or Teflon balls available on most pumps
- "Unstallable" unbalanced air valve design
  - – eliminates stalling problems
  - – does not require lubrication in most applications
  - – uses significantly less air than the competition
  - – is forgiving in dirty air
- Air motor valve designed to apply constant air pressure to both the pilot and major shift valves to enhance performance and reduce pulsation
- Positive prime instant start ups
- Pressure ratios include 1:1 and 3:1

Infinity™ "N" Series

Infinity™ "N" series pumps deliver powerful performance in a striking design for light industrial needs at an economical price. All stainless steel construction provides worry-free fluid flow when switching between different materials. Stall-free, ice-free air motor design withstands harsh working environments. Our air motor has 50% fewer parts than the majority of comparable pumps for easy maintenance. Patented valving design uses no trip rods or push pins to break.

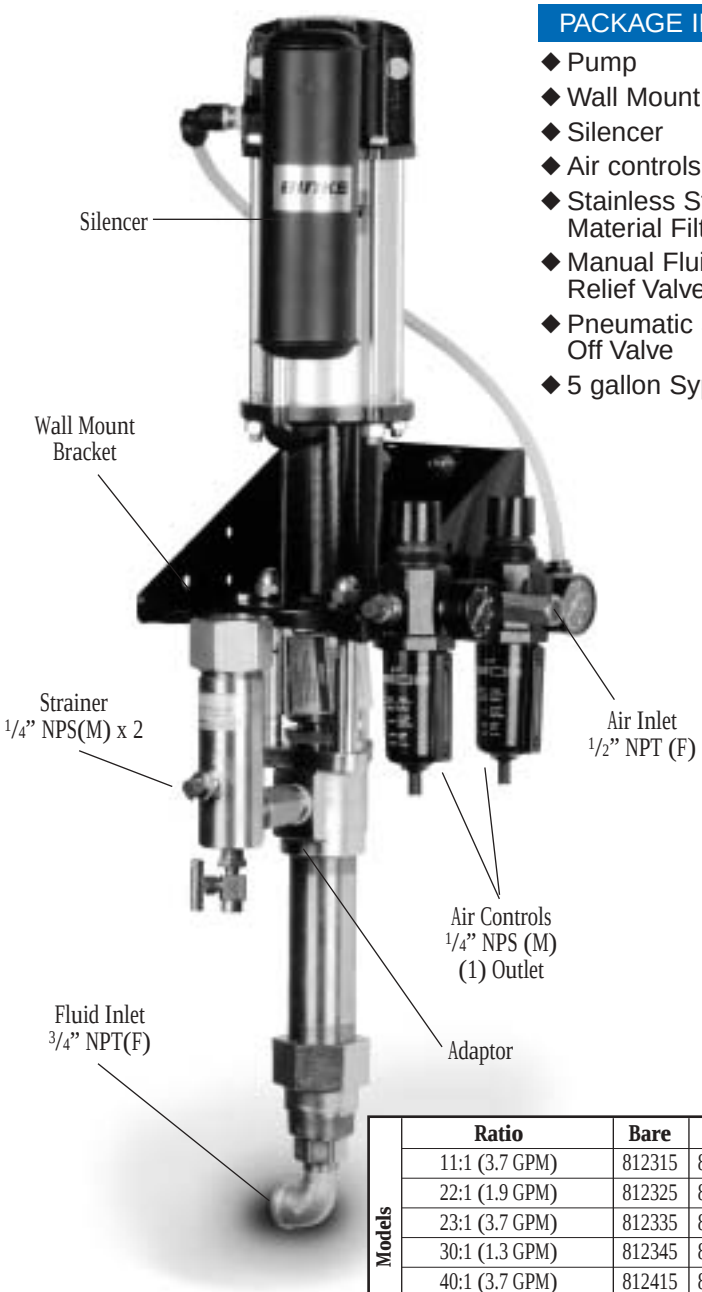
- Stainless steel for wetted parts
- UHMW packing material
- Longer air motor stroke requires fewer cycles increasing pump and air motor life
- Serviceable with standard wrenches
- Pressure ratio: 28:1
- 4:1 Drum Pump

Infinity™ "Pogo" Pump

Infinity "Pogo" – Binks' original drum transfer pump.

- 55 gallon drum pump
- Stub pump version
- Wetted Materials: Stainless steel or Carbon steel
- UHMW polyethylene packing set
- Bung mount
- Stub version for wall mount
- Pressure ratio: 2:1

Infinity 2-Ball Pump Packages



PACKAGE INCLUDES

- Pump
- Wall Mount Bracket
- Silencer
- Air controls
- Stainless Steel Material Filter
- Manual Fluid Pressure Relief Valve
- Pneumatic Shut Off Valve
- 5 gallon Syphon Hose

5 gallon Syphon Hose included in wall and cart mounted pump packages.

	Ratio	Bare	Cart	Wall
Models	11:1 (3.7 GPM)	812315	812205	812115
	22:1 (1.9 GPM)	812325	812215	812125
	23:1 (3.7 GPM)	812335	812225	812135
	30:1 (1.3 GPM)	812345	812235	812145
	40:1 (3.7 GPM)	812415	812275	812265
	45:1 (1.9 GPM)	812355	812245	812155
	60:1 (1.3 GPM)	812365	812255	812165
Equipment Included	Pump	✓	✓	✓
	Mounting	✗	✓	✓
	2x Air Filter/Regulators	✗	✓	✓
	Fluid Filter	✗	✓	✓
	Air Silencer	✗	✓	✓
	Fluid Press Relief Valve	✗	✓	✓
	Air Shut off Valve	✗	✓	✓
	5 gallon Syphon Hose	✗	✓	✓
	UHMWPE Packings	✓	✓	✓
	Gun, Hose,Tips	✗	✗	✗

Typical Applications 11:1

The 11:1 Infinity Pump is used in low pressure systems with light to medium viscosity coatings. Can supply air assisted airless and low pressure airless operations. This pump can also be used in a circulating system or a dead end system.

Typical Applications 22 & 23:1

The 22 & 23:1 Infinity Pump's are used in medium pressure systems. The coatings are light to medium viscosity. Can supply air assisted airless and airless applications. These pumps can also be used in a circulating system or a dead end system.

Typical Applications 30, 40 & 45:1

The 30, 40 & 45:1 Infinity Pump's are used in high pressure systems. Coatings can be light, medium, or high viscosity. Typically an airless application, but can also supply air assisted airless operations. These pumps can be used to supply a circulating or a dead end piping system.

Typical Applications 60:1

The 60:1 Infinity Pump is used in high pressure systems. Coatings can be medium to high viscosity. Typically an airless application.

Part Numbers

Cart.....873186
Wall Mount Bracket.....873115
Silencer.....873158
Air Controls 849303
100 Mesh SS Material Filter 841006

Accessories not included

55 gallon 874501

ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 4-Ball Pump Packages

The All-Stainless Pump Built to Take on the Toughest Applications
Original Ceramic Ultra Coating on Cylinder and Rod

The Infinity 4-Ball is the most advanced and efficient pump available in the marketplace for delivering a high volume of material economically. Infinity 4-Ball Pumps are used in high volume low pressure circulating applications and typically supply HVLP, conventional or electrostatic spray equipment.

Part Numbers

Wall Mount Package 814120
4:1 Ratio with 21.3 GPM @ 60 cycles
(full specification on page 20).
Wall Bracket 873115
Air Control (2) 849303
Silencer 873158

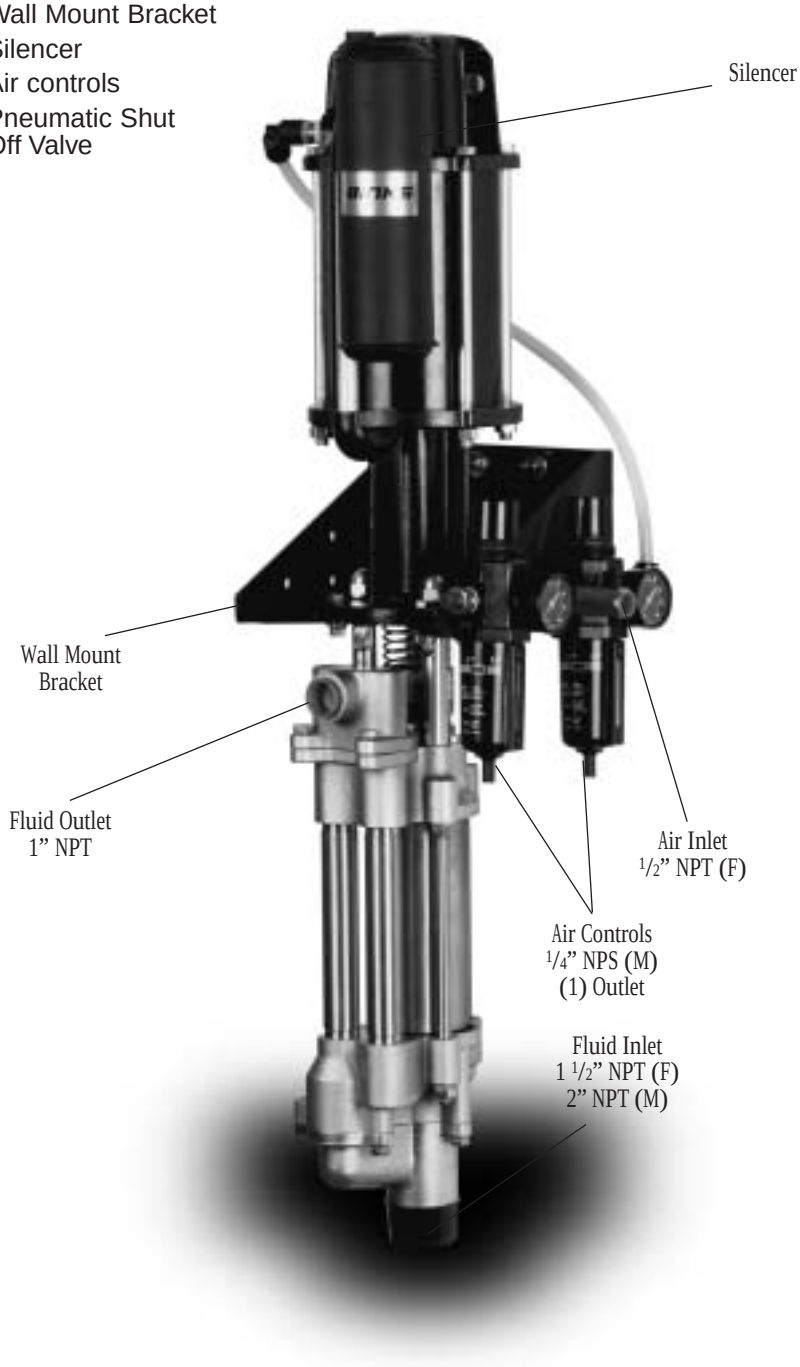
Wall Mount Package 814190
7:1 Ratio with 25 GPM @ 60 cycles
(see page 21).
Wall Bracket 873189
Air Control (2) 849303
Silencer 873190

Wall Mount Package 814110
3:1 Ratio with 29.3 GPM @ 60 cycles
(see page 19).
Wall Bracket 873115
Air Control (2) 849303
Silencer 873158

ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

PACKAGE INCLUDES

- Pump
- Wall Mount Bracket
- Silencer
- Air controls
- Pneumatic Shut Off Valve



Infinity Diaphragm Pump Packages

Wall Mount Finishing

We offer 1/2" and 1" wall mount packages.
All Packages include:
Wall Mount Bracket,
2 Air Controls, and pneumatic shut off

1/2" Wall Mount Pump Packages

	WETTED	CONSTRUCTION SEAT	BALL	DIAPHRAGM
818150	SS	SS	SS	Teflon

1" Wall Mount Pump Packages

	WETTED	CONSTRUCTION SEAT	BALL	DIAPHRAGM
818121	SS	SS	SS	Teflon
818120	Alum	SS	SS	Teflon

Bung Mount

Bung Mount Packages include:
Air Control, Mounting Plate, Mounting Hardware, and SS Siphon Tube with strainer.

1/2" Bung Mount Pump Packages

	WETTED	CONSTRUCTION SEAT	BALL	DIAPHRAGM
818170	SS	SS	SS	Teflon

Pail Mount

Pail Mount Packages include:
2 Air Controls, Pump mounted on cover.

1/2" Pail Mount Pump Package

	WETTED	CONSTRUCTION SEAT	BALL	DIAPHRAGM
818160	Groundable Acetal	SS	SS	Teflon

PACKAGE INCLUDES	BARE	WALL	BUNG	PAIL
PUMP	✓	✓	✓	✓
MOUNTING	✗	✓	✓	✓
AIR SHUT OFF VALVE	✗	✓	✓	✓
1x FILTER/REG	✗	See individual pacakges	✓	✗
2x FILTER/REG	✗		✗	✓
SUCTION TUBE	✗	✗	✓	✓
PAINT REGULATOR	✗	✗	✗	✗
PAINT FILTER	✗	✗	✗	✗
SPRAYGUNS & HOSES	✗	✗	✗	✗

Wall Mount Bulk Transfer

These bulk transfer/high volume finishing pumps can efficiently transfer finishing coatings to a day tank. The 3:1 can supply large circulating systems. Both pumps are designed to handle heavy abrasive coatings.

818100 3:1 Diaphragm includes:
Pump 818800
Wall Bracket 873134
Air Control 849303

	WETTED	CONSTRUCTION SEAT	BALL	DIAPHRAGM
818100	SS	SS	SS	Teflon

818110 1-1/2" Pump includes:
Pump 818810
Wall Bracket 873135
Air Control 849303

	WETTED	CONSTRUCTION SEAT	BALL	DIAPHRAGM
818110	SS	SS	SS	Teflon

MODELS	SIZE (INCHES)	FLOW	WETTED	DIAPHRAGM	BALLS	SEATS	BARE	WALL	BUNG	PAIL
	1/2	7 GPM	PP	SANT	SANT	SS	818835	-	-	-
	1/2	7 GPM	GND ACT	TEFLON	SS	SS	818831	-	-	818160
	1/2	7 GPM	SS	TEFLON	SS	SS	818834	-	-	-
	1/2	13 GPM	PP	SANT	SANT	SS	818832	-	-	-
	1/2	13 GPM	GND ACT	TEFLON	SS	SS	818836	-	-	-
	1/2	13 GPM	SS	TEFLON	SS	SS	818830	818150	818170	-
	1/2	13 GPM	PP	TEFLON	SS	SS	818833	-	-	-
	1	35 GPM	PP	TEFLON	SS	SS	818840	-	-	-
	1	35 GPM	ALUM	TEFLON	SS	SS	818820	818120	-	-
	1	35 GPM	SS	TEFLON	SS	SS	818822	818122	-	-
	1(3:1)	24 GPM	SS	TEFLON	SS	SS	818800	818100	-	-
	1 1/2	100 GPM	SS	TEFLON	TEFLON	SS	818810	818110	-	-

Key: SS = Stainless Steel - GND ACT = Groundable Acetal - PP = Poplypropylene - SANT = Santoprene
For more information about 1/2" diaphragm pump packages, please see our material handling 'Euro' leaflet.

Infinity “N” Series Pump Packages

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

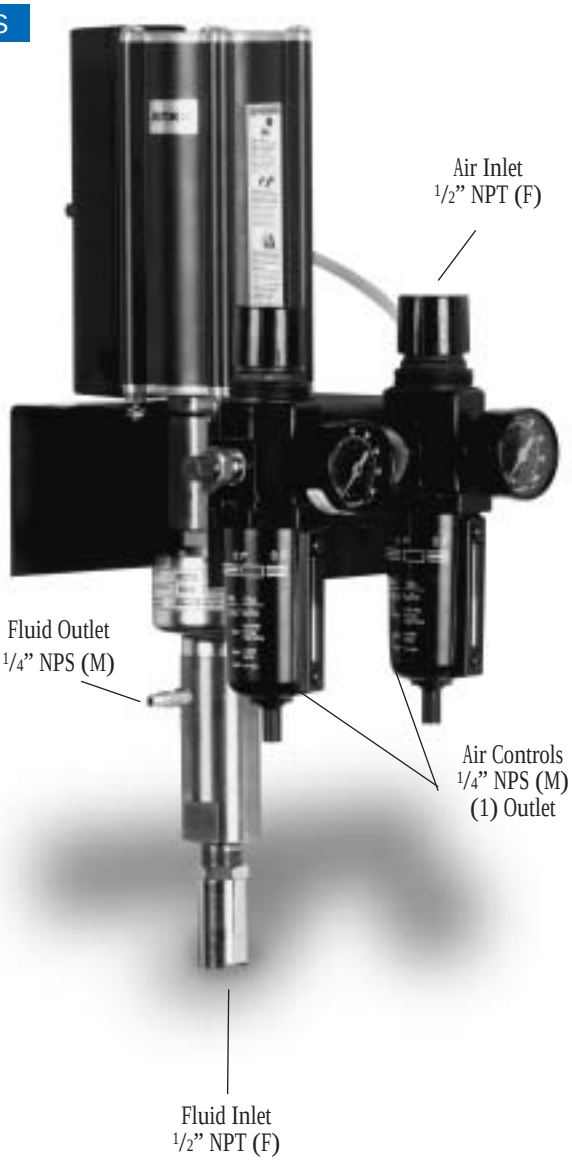
Air Assist And Airless Part Numbers

Cart Mount Pkg 812180P
28:1 Ratio with .38 GPM @ 60 cycles
Wall Mount Pkg 812190P
28:1 Ratio with .38 GPM @ 60 cycles
Wall Mount Bracket 873116
Air Controls (2).....849303
St St Material Filter 103-1241
5 Gall. Syphon Hose Assembly.....DVP-41-W

812190P - Ratio 28:1

PACKAGE INCLUDES

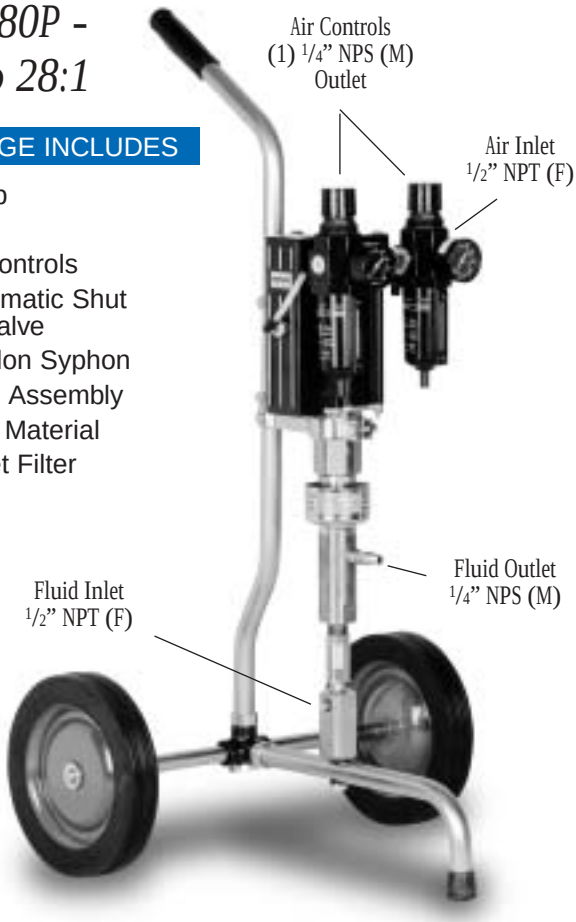
- Pump
- Wall Mount Bracket
- Pneumatic Shut Off Valve
- Air Controls
- 5 gallon Syphon Hose Assembly
- St St Material Outlet Filter



812180P - Ratio 28:1

PACKAGE INCLUDES

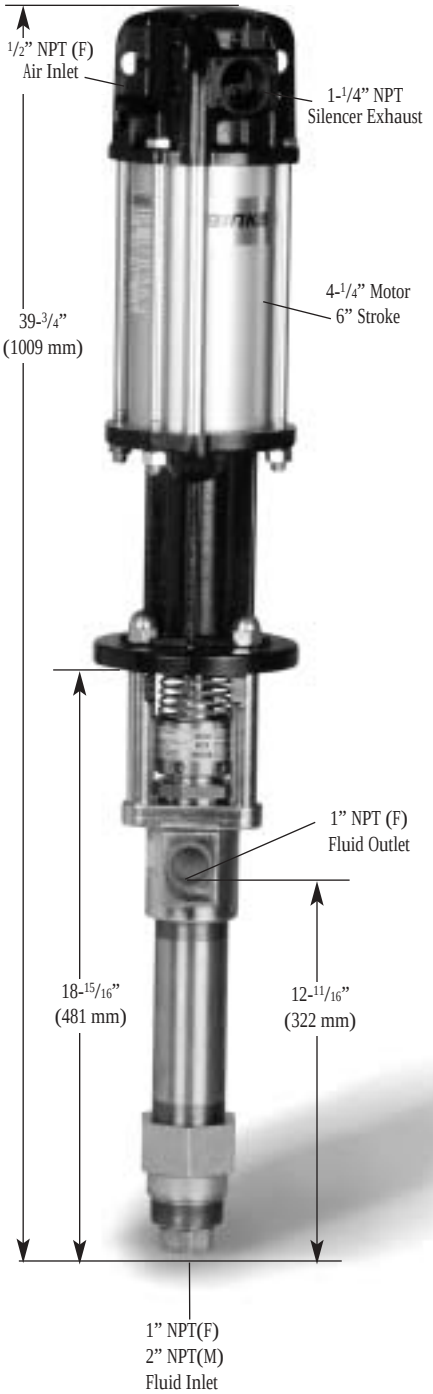
- Pump
- Cart
- Air Controls
- Pneumatic Shut Off Valve
- 5 gallon Syphon Hose Assembly
- St St Material Outlet Filter



5 gallon syphon hose and material outlet filter are included (not shown on photographs).

Infinity 11:1 Two-Ball Pump

Bare Pump #812315 – Ratio 11:1



Performance

Air Inlet Pressure . . . . 30 - 150 PSI (2 - 10.2 bar)
Fluid Pressure . . . 330 - 1650 PSI (22.4 - 112.2 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle . . . 14.5 (237.6 cm^3)
Cycles Per Gallon (Litre) 16 (4.2)
Flow @ 60 Cycles/Minute . . 3.7 GPM (13.9 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 81.8 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, Ultra Coated
Packing Set . . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max 180˚ F Fluid Inlet Temp. Optional Packing
Weight . . . . . 42.9 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
Teflon/Leather (Upper & Lower) 861001

Recommended Accessories

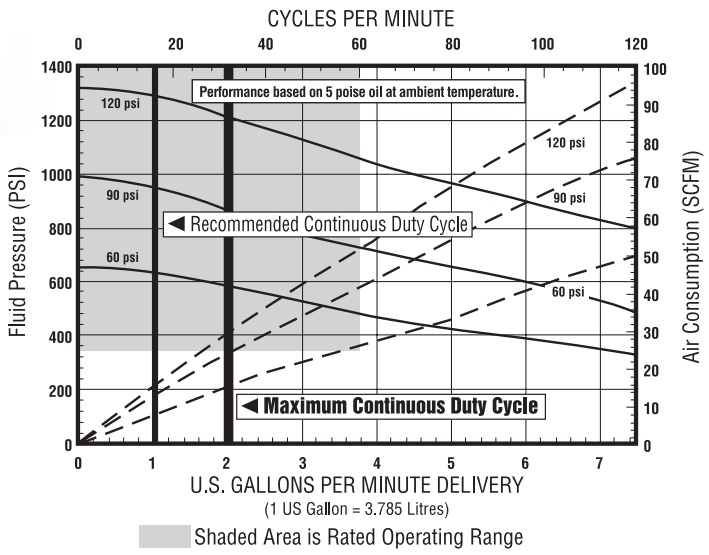
Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Cart 873186
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant. 863009

Accessories not included

Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874501

Typical Graph Information
——— @ 60 PSI @ 1 GPM ≈ (16 CPM)
(FLUID OUTPUT Pressure at specified air inlet pressure)
- - - - - - @ 60 PSI @ 1 GPM ≈ (7 CFM)
(Air consumption at specified air inlet pressure)

Key for all charts



See page 35 for further graph/performance information.

Infinity 22:1 Two-Ball Pump

Bare Pump #812325 – Ratio 22:1

Part Numbers

Air Motor 842001
Air Motor Repair Kit 861031
Lower Pump Assembly. 871012
Lower Pump Kit (UHMW) 861010
Optional Lower Pump Repair Kit
Teflon/Leather (Upper & Lower). 861011

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post. 873185
Cart 873186
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant 863009

Accessories not included

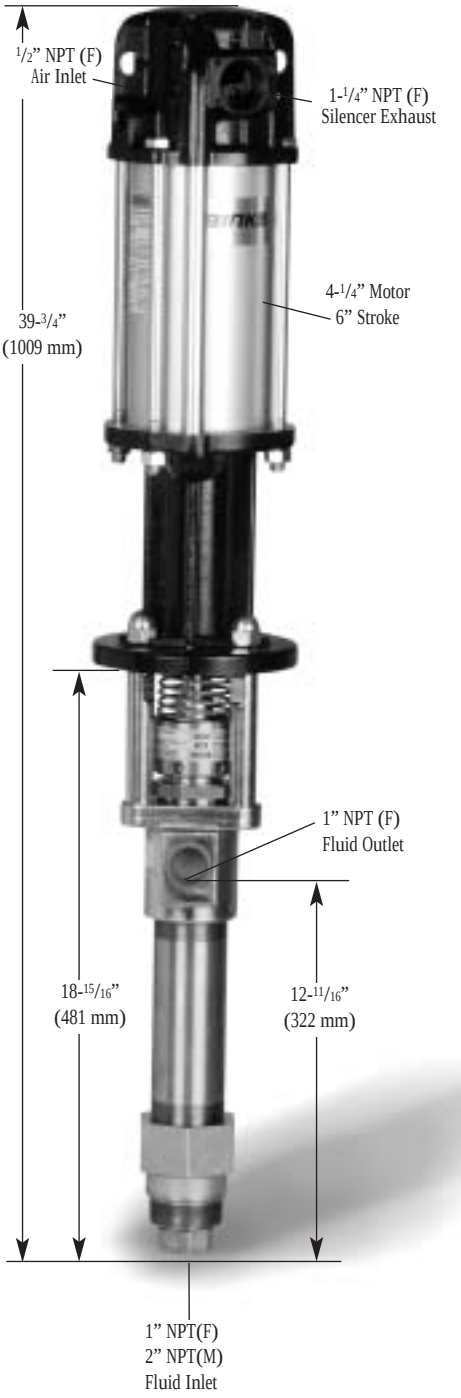
Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874501

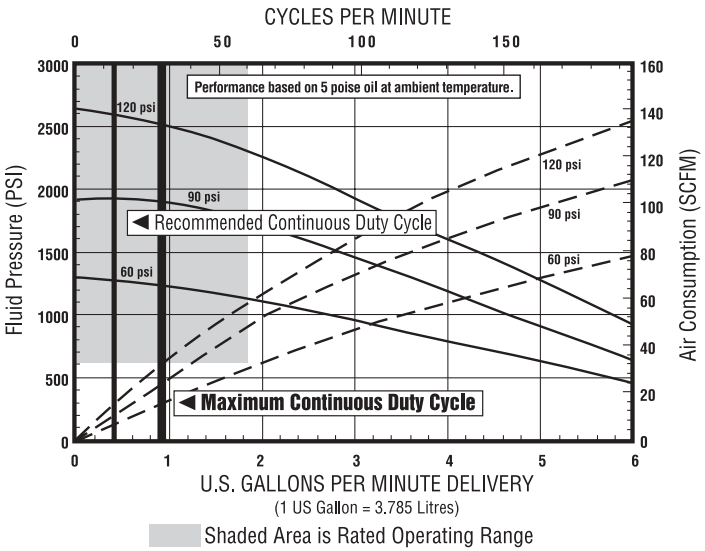
Performance

Air Inlet Pressure . . . . 30 - 150 PSI (2 - 10.2 bar)
Fluid Pressure . . . 660 - 3300 PSI (44.8 - 224.4 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle. . . . 7.5 (122.9 cm3)
Cycles Per Gallon (Litre) 30.8 (8.1)
Flow @ 60 Cycles/Minute. . . 1.9 GPM (7.2 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 81.8 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, Ultra Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120° F Fluid Inlet Temp.
180°F Fluid Inlet Temp. Optional Packing
Weight . . . . . 42.9 lbs. (19.5 kgs.)

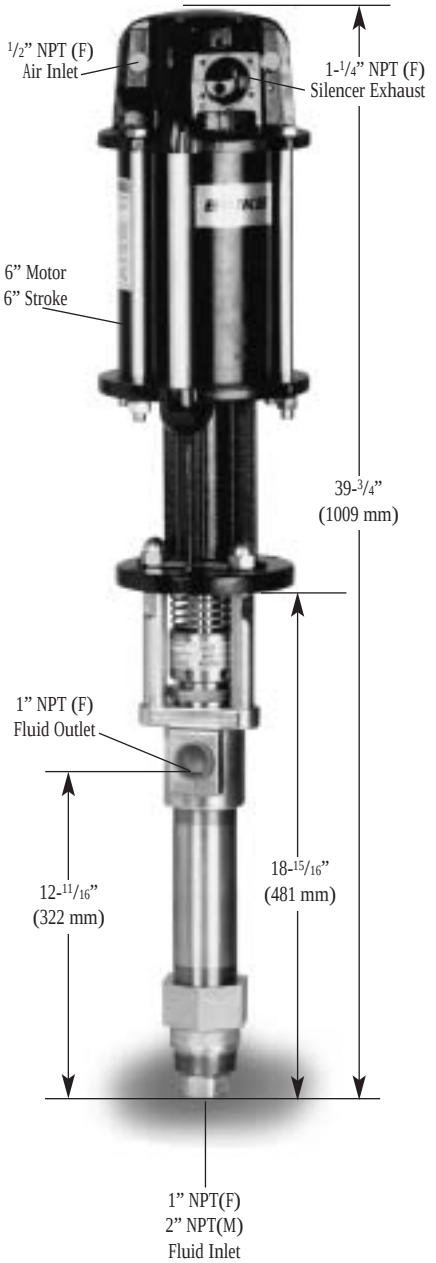




ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 23:1 Two-Ball Pump

Bare Pump #812335 – Ratio 23:1



Performance

Air Inlet Pressure . . . . 30 - 150 PSI (2 - 10.2 bar)
Fluid Pressure . . . 690 - 3450 PSI (46.9 - 234.6 bar)
Max. Rated Cycles Per Minute 60
Displacement In³ Per Cycle . . . 14.5 (237.6 cm3)
Cycles Per Gallon (Litre) 15.9 (4.2)
Flow @ 60 Cycles/Minute . . 3.7 GPM (13.9 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 84.8 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, Ultra Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max. 180˚ F Fluid Inlet Temp. Optional Packing
Weight. . . . . 46.2 lbs. (21 kgs.)

Part Numbers

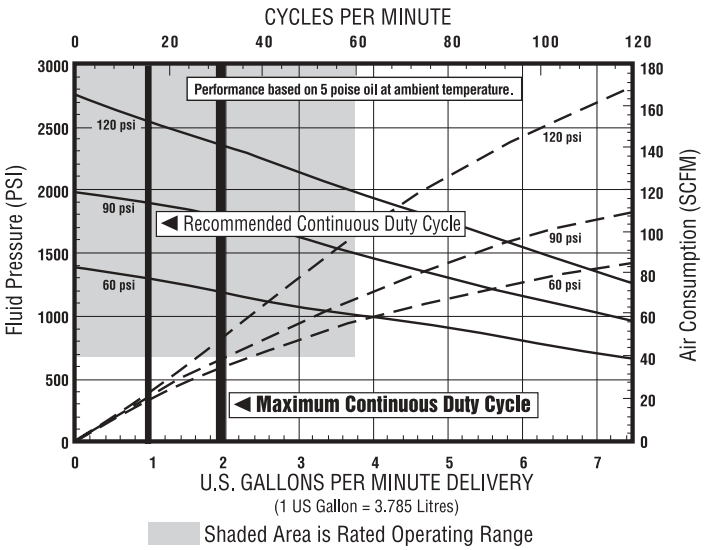
Air Motor 842002
Air Motor Repair Kit 861032
Lower Pump Assembly 871002
Lower Pump Repair Kit(UHMW). 861000
Optional Lower Pump Repair Kit
Teflon/Leather (Upper & Lower) 861001

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Cart 873186
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant. 863009

Accessories not included

Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874501



ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 30:1 Two-Ball Pump

Bare Pump #812345 – Ratio 30:1

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
Teflon/Leather (Upper & Lower) 861021

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Cart 873186
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant. 863009

Accessories not included

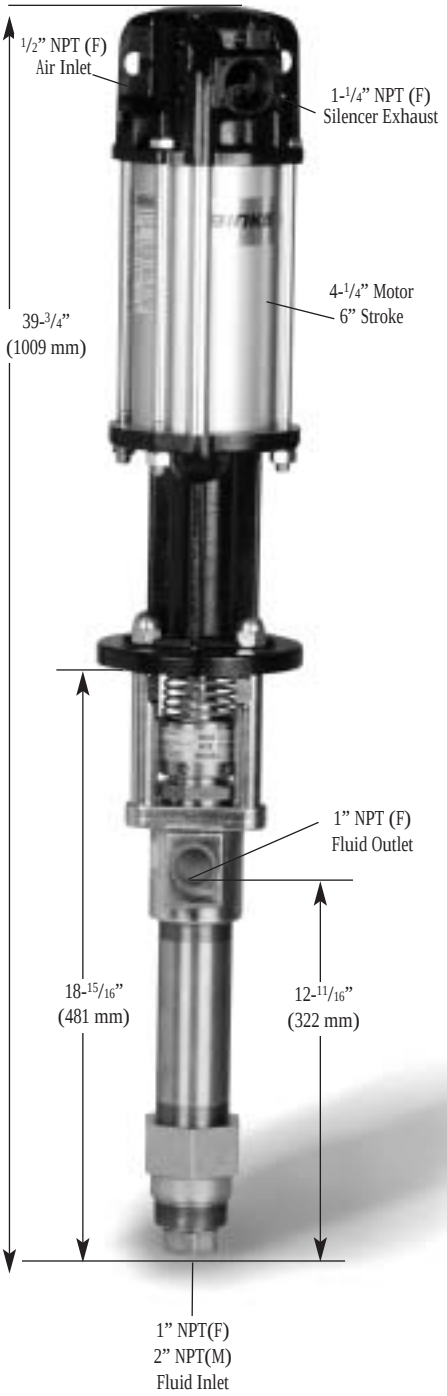
Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874501

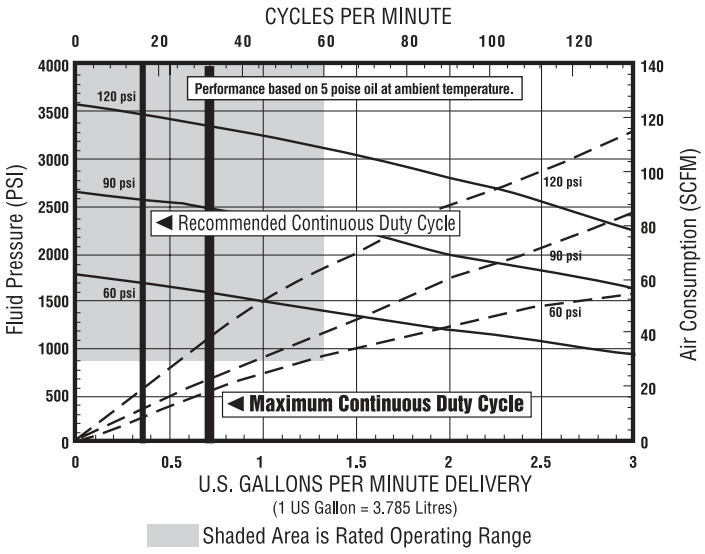
Performance

Air Inlet Pressure . . . . 30 - 150 PSI (2 - 10.2 bar)
Fluid Pressure . . . 900 - 4500 PSI (61.2 - 306.1 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle 5.5 (90.1 cm3)
Cycles Per Gallon (Litre). 41.9 (11)
Flow @ 60 Cycles/Minute. . . 1.3 GPM (4.9 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 84.8 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, Ultra Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max 180˚ F Fluid Inlet Temp. Optional Packing
Weight. . . . . 42.9 lbs. (21 kgs.)

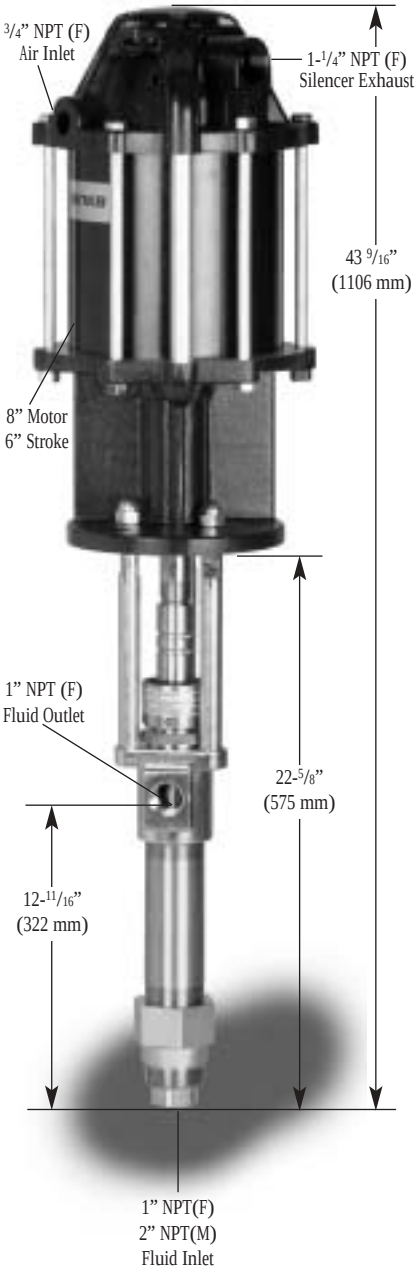




ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 40:1 Two-Ball Pump

Bare Pump #812415 – Ratio 40:1



Performance

Air Inlet Pressure . . . . . 30 - 120 PSI (2 - 8.1 bar)
Fluid Pressure . . 1200 - 4800 PSI (81.6 - 326.5 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle . . . 14.5 (237.6 cm3)
Cycles Per Gallon (Litre) 16 (4.2)
Flow @ 60 Cycles/Minute . . 3.7 GPM (13.9 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 89.9 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, Ultra Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max 180˚ Fluid Inlet Temp. Optional Packing
Weight . . . . . 68.1 lbs. (30.9 kgs.)

Part Numbers

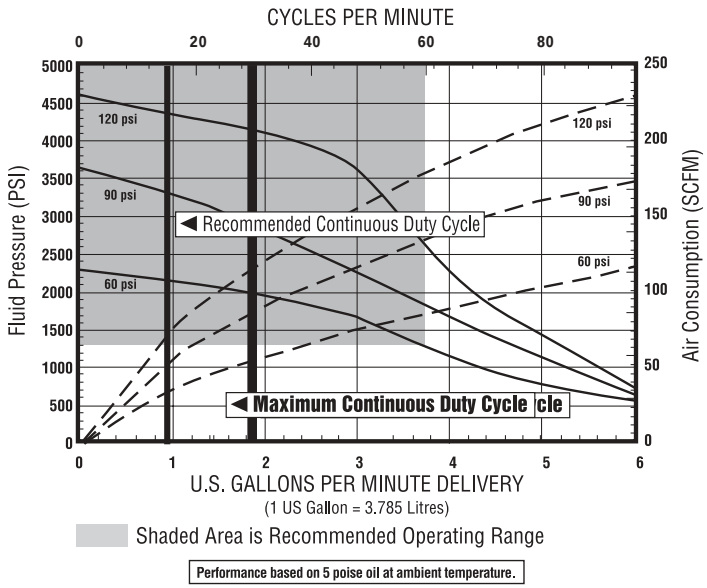
Air Motor 842003
Air Motor Repair Kit 861033
Lower Pump Assembly 871003
Lower Pump Repair Kit(UHMW). 861000
Optional Lower Pump Repair Kit
Teflon/Leather (Upper & Lower) 861001

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Cart 873186
Silencer 873190
Strainer 841006
Wet Sol Packing Lubricant. 863009

Accessories not included

Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874501



ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 45:1 Two-Ball Pump

Bare Pump #812355 – Ratio 45:1

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
Teflon/Leather (Upper & Lower). 861011

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Cart 873186
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant. 863009

Accessories not included

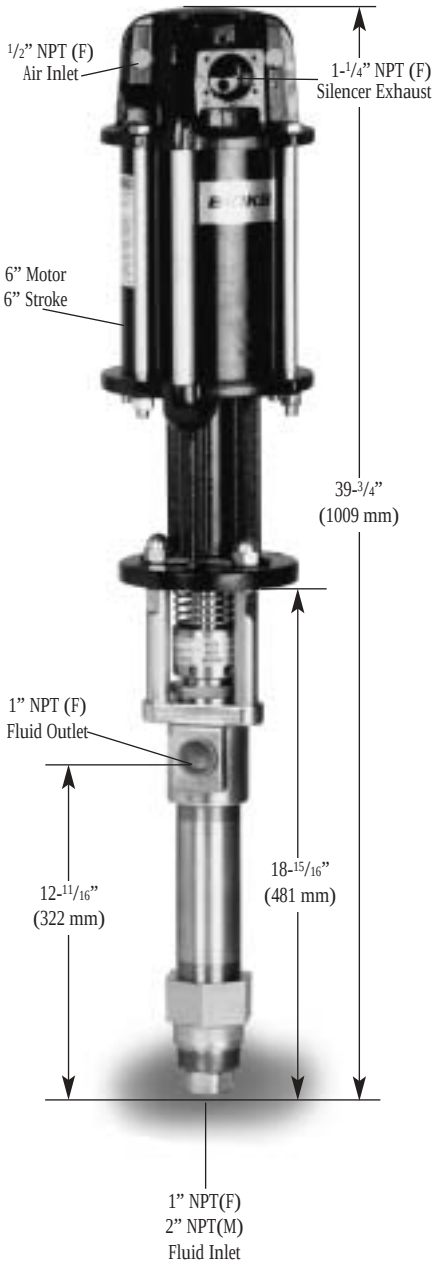
Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874501

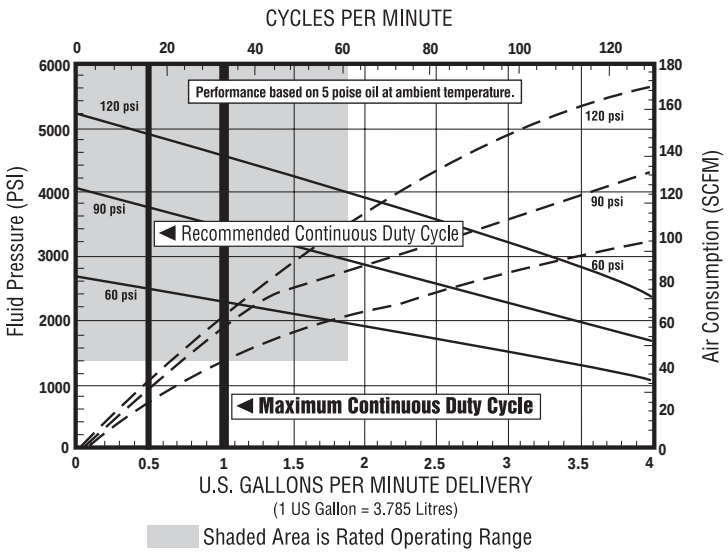
Performance

Air Inlet Pressure . . . . . 30 - 120 PSI (2 - 8.3 bar)
Fluid Pressure . . . 1350 - 5400 PSI (91.8 - 367 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle. . . . 7.5 (122.9 cm3)
Cycles Per Gallon (Litre) 30.9 (8.1)
Flow @ 60 Cycles/Minute. . . 1.9 GPM (7.2 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 84.8 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, ultra Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max. 180˚ F Fluid Inlet Temp. Optional Packing
Weight. . . . . 46.2 lbs. (21 kgs.)

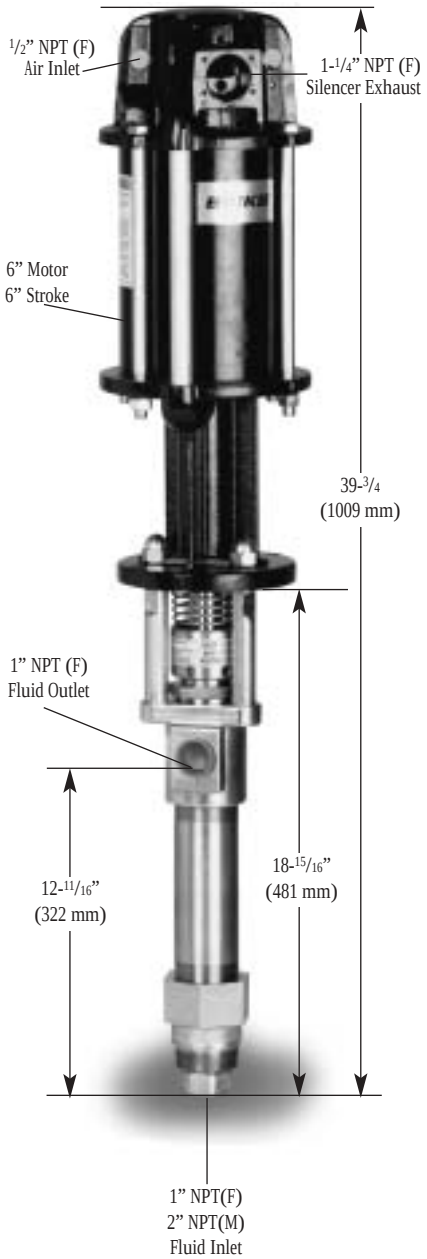




ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 60:1 Two-Ball Pump

Bare Pump #812365 – Ratio 60:1



Performance

Air Inlet Pressure . . . . . 30 - 100 PSI (2 - 6.9 bar)
Fluid Pressure . . . 1800 - 6000 PSI (122 - 408 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle 5.5 (90.1 cm3)
Cycles Per Gallon (Litre). 41.9 (11)
Flow @ 60 Cycles/Minute. . . 1.3 GPM (4.9 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 84.8 db(A)

Specifications

Lower Pump Material 316 SS (CF-8M) Stnls. Steel
Plunger Material . . . . . 17-4 Stnls. Steel, Ultra Coated
Cylinder Material . . . . . 316 Stnls. Steel, Ultra Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max. 180˚ F Fluid Inlet Temp. Optional Packing
Weight. . . . . 46.2 lbs. (21 kgs.)

Part Numbers

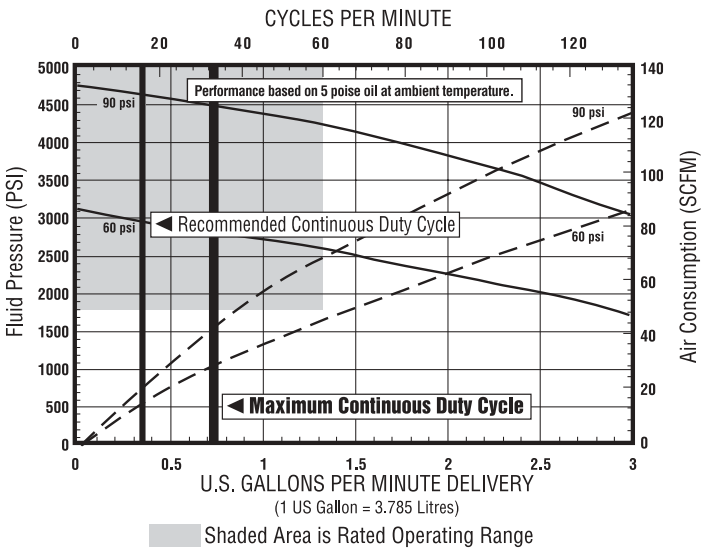
Air Motor 842002
Air Motor Repair Kit 861032
Lower Pump Assembly 871022
Lower Pump Repair Kit(UHMW). 861020
Optional Lower Pump Repair Kit
Teflon/Leather (Upper & Lower) 861021

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Cart 873186
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant. 863009

Accessories not included

Siphon Hose – 5 foot hose with strainer
5 gallon 874500
55 gallon 874500



ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 3:1 Four-Ball Pump

Bare Pump #814410 – Ratio 3:1

Part Numbers

Air Motor 842002
Air Motor Repair Kit 861032
Lower Pump Assembly 871040
Lower Pump Repair Kit(UHMW). . . . 861060
Optional Lower Pump Repair Kit
Teflon/Leather (Upper) 861061
Teflon (Lower)

Recommended Accessories

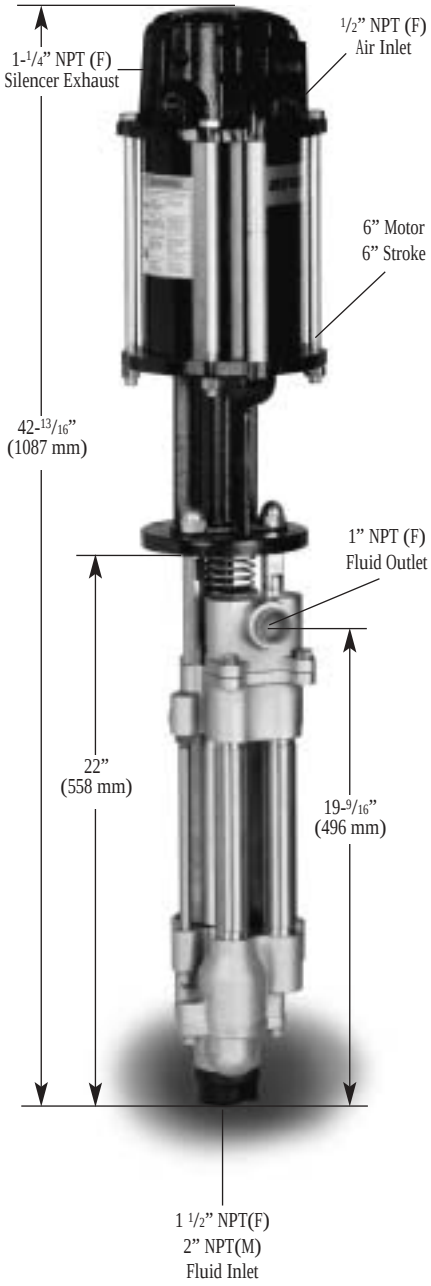
Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant 863009

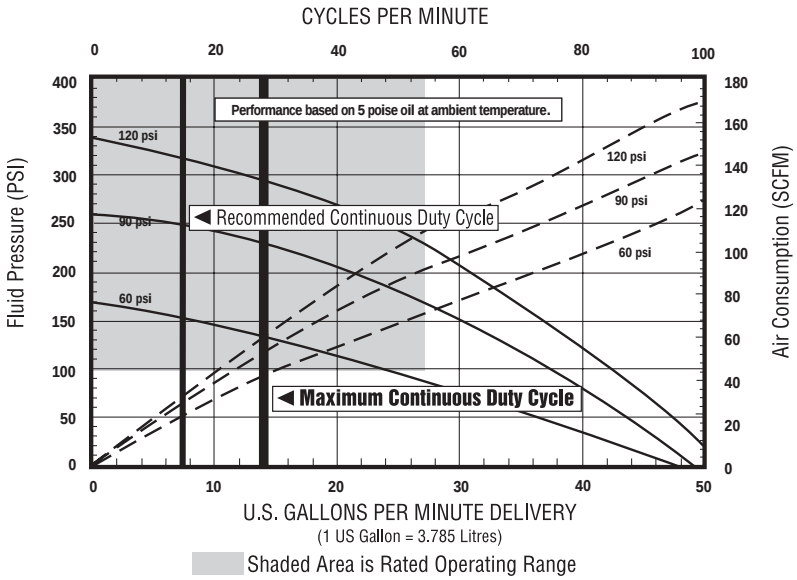
Performance

Air Inlet Pressure . . . 30 - 150 PSI (2.1 - 10.2 bar)
Fluid Pressure . . . . . 90 - 450 PSI (6.1 - 30.6 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle . 112.7 (1846.8 cm3)
Cycles Per Gallon(Litre) . . . . . 2.05 (.54)
Flow @ 60 Cycles/Minute 29.3 GPM (110.8 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 84.8 db(A)

Specifications

Lower Pump Material. . . CF8M (316) Stnls. Steel
Plunger Material . 17-4 Stnls. Steel, "Ultra" Coated
Cylinder Material. . . . 304 Stnls. Stl. "Ultra" Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120° F Fluid Inlet Temp.
Max. 180° F Fluid Inlet Temp. Optional Packing
Weight . . . . . 73.25 lbs. (33.2 kgs.)

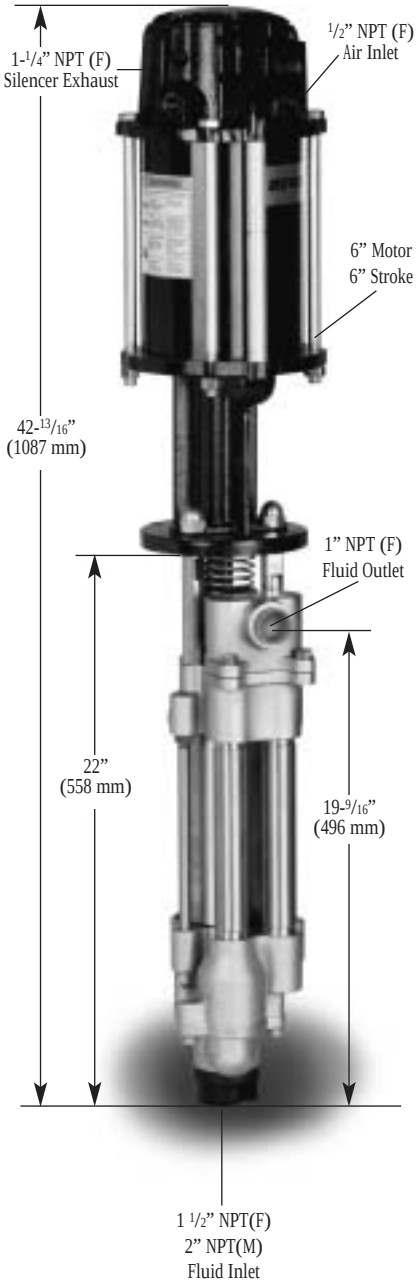




ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 4:1 Four-Ball Pump

Bare Pump #814420 – Ratio 4:1



Performance

Air Inlet Pressure . . . 30 - 150 PSI (2.1 - 10.2 bar)
Fluid Pressure . . . . . 120 - 600 PSI (8.1 - 40.8 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle. . . . 82.1 (1345 cm^3)
Cycles Per Gallon(Litre). . . . . 2.8 (.74)
Flow @ 60 Cycles/Minute .21.3 GPM (80.6 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . .84.8 db(A)

Specifications

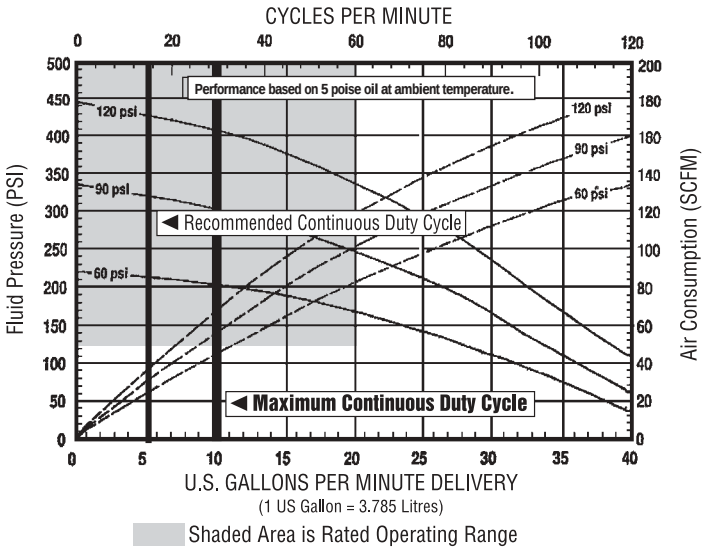
Lower Pump Material. . . CF8M (316) Stnls. Steel
Plunger Material . 17-4 Stnls. Steel, "Ultra" Coated
Cylinder Material. . . . 304 Stnls. Stl. "Ultra" Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max. 180˚ F Fluid Inlet Temp. Optional Packing
Weight. . . . . 71.25 lbs. (32.3 kgs.)

Part Numbers

Air Motor 842002
Air Motor Repair Kit 861032
Lower Pump Assembly. 871030
Lower Pump Repair Kit(UHMW) 861065
Optional Lower Pump Repair Kit
Teflon/Leather (Upper) 861066
Teflon (Lower)

Recommended Accessories

Air Controls 849303
Wall Mount 873115
Mounting Post 873185
Silencer 873158
Strainer 841006
Wet Sol Packing Lubricant. 863009



ULTRA COATED
FLUID SECTIONS AS STANDARD FOR LONGER WORKING LIFE

Infinity 7:1 Four-Ball Pump

Bare Pump #814440 – Ratio 7:1

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
Teflon/Leather (Upper) 861066
Teflon (Lower)

Recommended Accessories

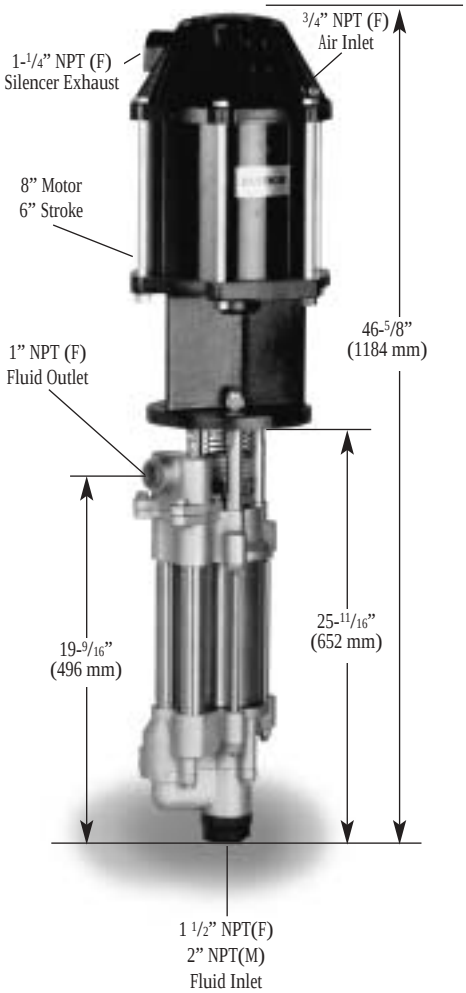
Air Controls 849303
Wall Mount 873189
Mounting Post 873185
Silencer 873190
Strainer 841006
Wet Sol Packing Lubricant 863009

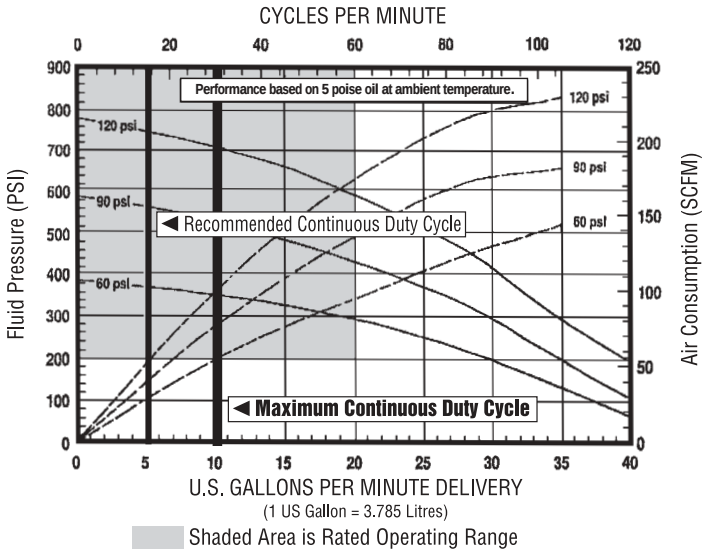
Performance

Air Inlet Pressure . . . . . 30 - 120 PSI (2 - 8.1 bar)
Fluid Pressure. . . . . 210 - 840 PSI (14.2 - 57.1 bar)
Max. Rated Cycles Per Minute 60
Displacement In^3 Per Cycle. . . . 77.5 (1269 cm^3)
Cycles Per Gallon(Litre) . . . . . 2.98 (.78)
Flow @ 60 Cycles/Minute . . 25 GPM (94.5 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 89.8 db(A)
Lower Pump Material. . . CF8M (316) Stnls. Steel

Specifications

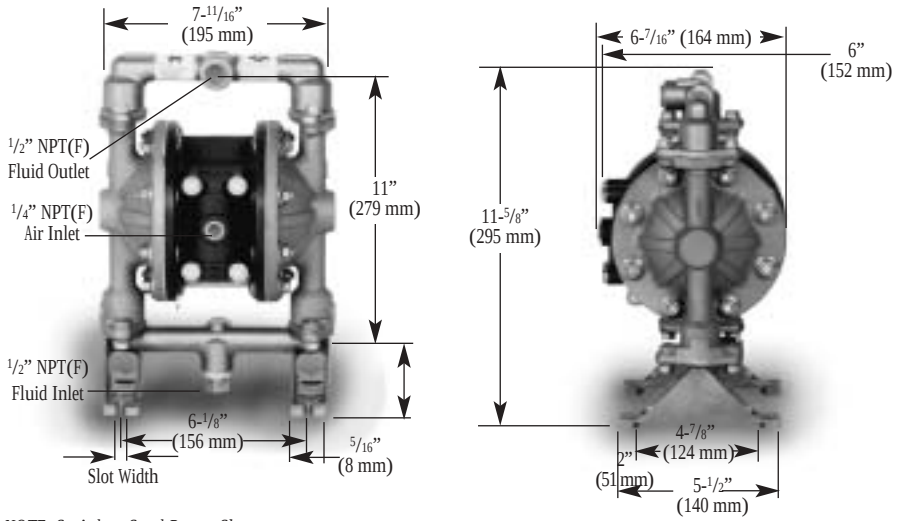
Plunger Material . 17-4 Stnls. Steel, "Ultra" Coated
Cylinder Material. . . . 304 Stnls. Stl. "Ultra" Coated
Packing Set. . . . . UHMW Polyethylene
Max. 120° F Fluid Inlet Temp.
Max. 180° F Fluid Inlet Temp. Optional Packing
Weight. . . . . 94 lbs. (42.6 kgs.)





Infinity 1/2” Diaphragm Pump

	(SS)	(GND ACT)	(POLY)		
Bare Pump (Short Stroke)	*#818834*	*#818831*	*#818835*	*(Ceramic)*	*1/2”Diaphragms*
Bare Pump (Long Stroke)	*#818830*	*#818836*	*#818832*	*(Ceramic)*	
			#818833	*(Standard)*	



NOTE: Stainless Steel Pump Shown
Ground Acetal & Polypropylene have dual fluid outlets

	CONSTRUCTION			
	BODY	SEAT	BALL	DIAPHRAGM
818830	SS	SS	SS	Teflon
818831	Groundable Acetal	SS	SS	Teflon
818833	Polypropylene	SS	SS	Teflon

Performance

Air Inlet Pressure . . . . . 20 - 100 PSI (1 - 6.9 bar)
Fluid Pressure . . . . . 20 - 100 PSI (1 - 6.9 bar)
Max. Flow Rate (Flooded Inlet)
SS & Polypropylene. . . . . 13-GPM (49.2 lpm)
Groundable Acetal . . . . . 7-GPM (26.5 lpm)
Max. Particle Size . . . . . 3/32” Dia (2.4 lpm)
Max. Temperature Limits
Stainless Steel . . . . . 200˚ F (93˚ C)
Groundable Acetal . . . . . 180˚ F (82˚ C)
Polypropylene . . . . . 150˚ F (66˚ C)
Displacement/Cycle (13 gpm) .0.040 Gallon (.15 litre)
Displacement/Cycle (7 gpm) .0.022 Gallon (.083 litre)
Noise Level with silencer
@ 70 Psi @ 60 Cyc/Min. . . . . 71.1 db(A)

Specifications

Air Motor . . . . . Unbalanced
Wetted Pump Material . . . . . See Chart
Diaphragm Material. . . . . Teflon
Seat . . . . . 316 Stainless Steel
Balls (standard). . . . . 316 Stainless Steel
Weight
Stainless Steel . . . . . 14.6 lbs (6.6 kgs)
Groundable Acetal . . . . . 8.8 lbs (4 kgs)
Polypropylene . . . . . 7.2 lbs (3.3 kgs)

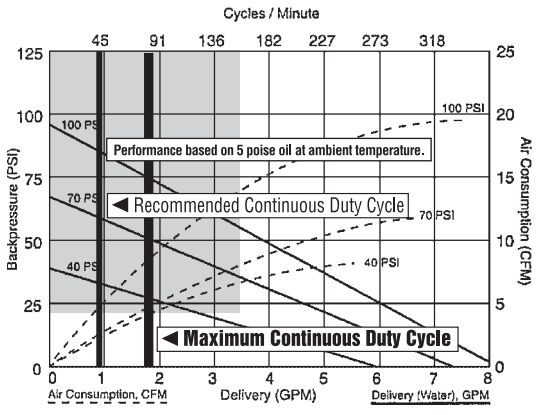
Part Numbers

Air Motor Repair Kit 862004
Diaphragm Repair Kit
Stainless Steel. 862040
Groundable Acetal 862040
Polypropylene. 862040
Ball & Seat Repair Kit
Stainless Steel (Ball/Seat). 862045
Teflon (Ball) SS (Seat). 862046

Recommended Accessories

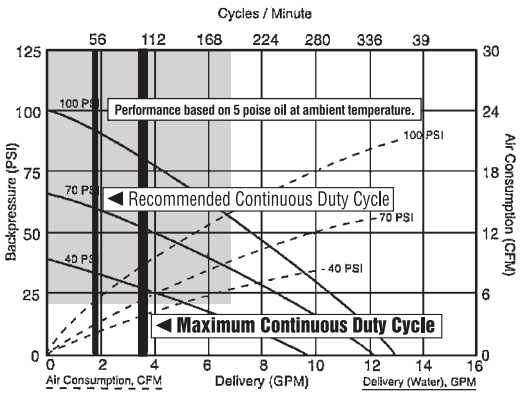
Air Control 849303
Wall Mount 873116
Siphon. . . . . 5’ Hose with Stainer
5 Gallon. 874504

Ground Acetal



U.S. GALLONS PER MINUTE DELIVERY
(1 US Gallon = 3.785 Litres)
Shaded Area is Rated Operating Range

Stainless Steel & Polypropylene



U.S. GALLONS PER MINUTE DELIVERY
(1 US Gallon = 3.785 Litres)
Shaded Area is Rated Operating Range

Infinity 1” Diaphragm Pump

Bare Pump # 818822 (SS) & #818820 (Alum) 1”Diaphragms

Performance

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)
Max. Particle Size . . . . . 1/8” Dia (3.2 mm)
Max. Temperature Limits . . . . . 200˚ F (93˚ C)
Displacement/Cycle . . . . .0.16 Gallon (.60 litre)
Cycles Per Gallon (Litre). 6.25 (1.66)
Noise Level with silencer
@ 70 Psi @ 60 Cyc/Min. . . . . 64.5 db(A)

Specifications

Air Motor . . . . . Unbalanced
Wetted Pump Material. . . . . See Chart
Diaphragm Material . . . . . Teflon
Seat . . . . . Stainless Steel
Balls (standard) . . . . . Stainless Steel
Weight
Aluminum . . . . . 19 lbs (8.62 kgs)
Stainless Steel . . . . . 36 lbs (16.33 kgs)

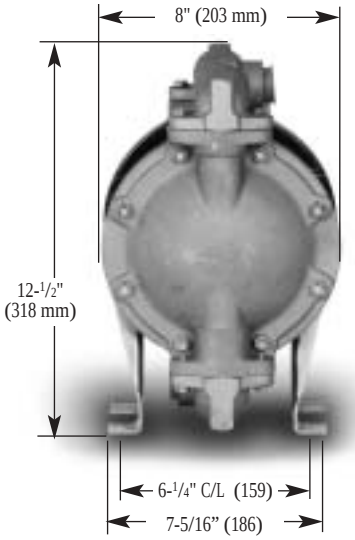
Part Numbers

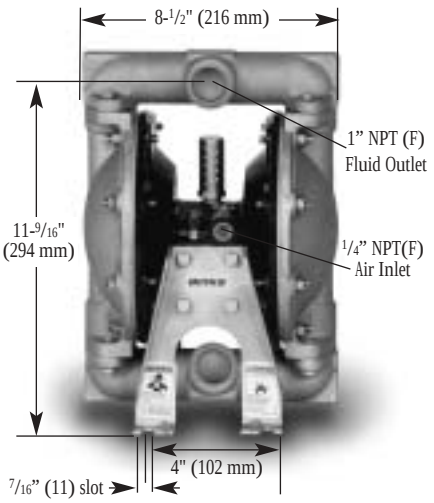
Air Motor Repair Kit. 862003
Diaphragm Repair Kit 862020
Ball & Seat Repair Kit
Stainless Steel (Ball/Seat). 862025
Teflon (Ball) SS (Seat) 862026

Recommended Accessories

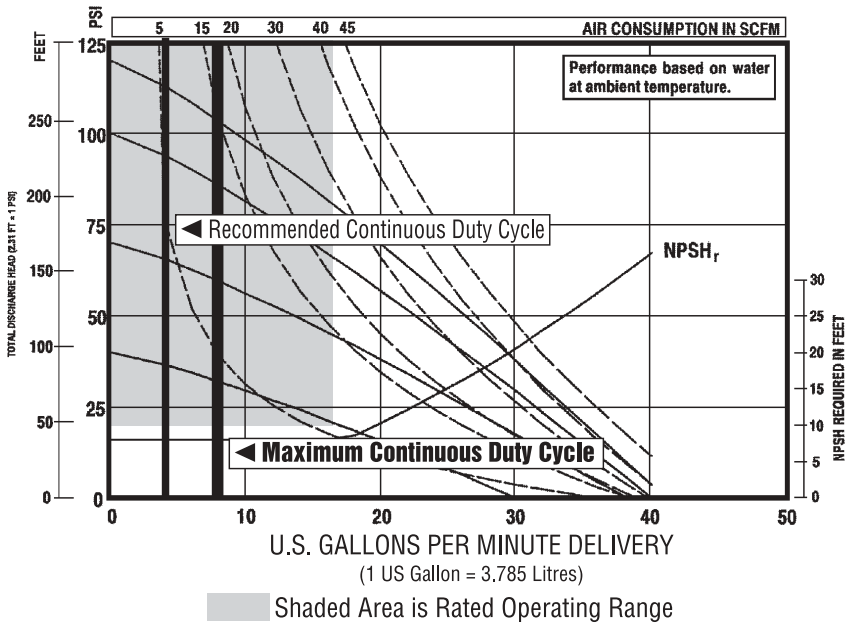
Air Control. 849303
Wall Mount 873115
Siphon Hose . . . . . 5” Hose with Stainer
5 Gallon 874500
55 Gallon 874501

NOTE:
1" Polypropylene pump also available.



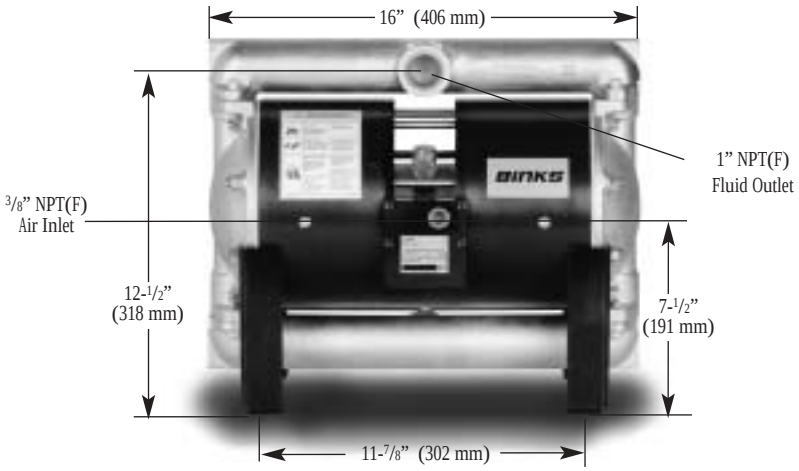


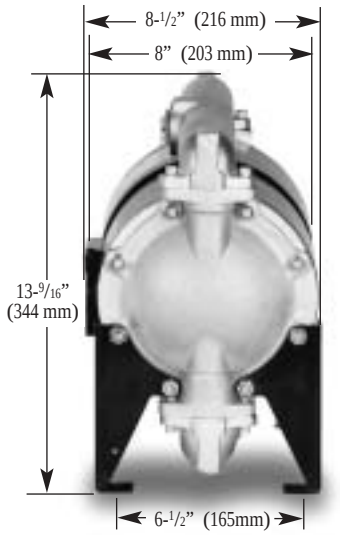
	CONSTRUCTION			
	BODY	SEAT	BALL	DIAPHRAGM
818820	Aluminum	SS	SS	Teflon
818822	SS	SS	SS	Teflon

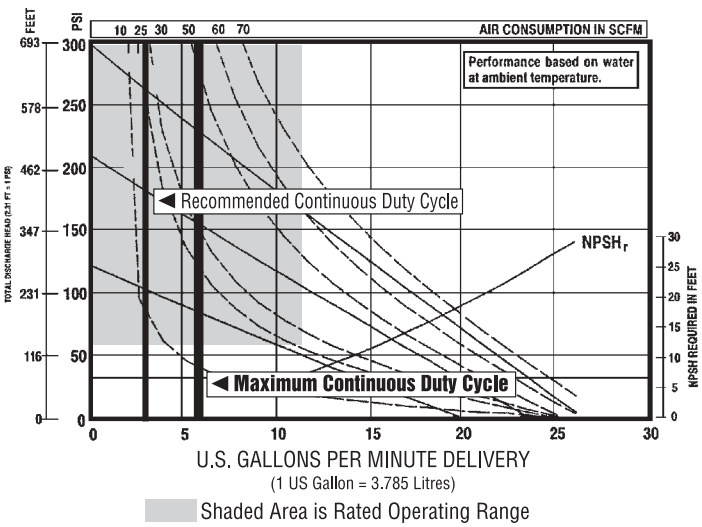


Infinity Hi-Volume 3:1 Diaphragm Pump

Bare Pump #818800 – Ratio 3:1







Performance

Air Inlet Pressure . . . . 20 - 100 PSI (1.4 - 6.8 bar)
Fluid Pressure . . . . . 60 - 300 PSI (4 - 20.4 bar)
Max. Flow Rate
(Flooded Inlet) . . . . . 24-GPM (90.8 lpm)
Max. Particle Size . . . . . 1/8" Dia (3.2 mm)
Max. Temperature Limits. . . . . 200˚ F (93˚)
Noise Level with silencer
@ 70 Psi @ 60 Cyc/Min. . . . . 84.5 db(A)

Specifications

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

Part Numbers

Air Motor Repair Kit 862001
Diaphragm Repair Kit 862000
Ball & Seat Repair Kit
Stainless Steel (Ball/Seat). 862025

Recommended Accessories

Air Control 849303
Wall Mount 873134

NOTE:
Prior to utilising or specifying this pump contact our technical department.

Infinity Hi-Volume 1 1/2" Diaphragm Pump

Bare Pump #818810 – 1 1/2" Diaphragm

Performance

Air Inlet Pressure . . . . 20 - 120 PSI (1 - 8.3 bar)
Fluid Pressure . . . . . 20 - 120 PSI (1 - 8.3 bar)
Max. Flow Rate
(Flooded Inlet). . . . . 100-GPM (378 lpm)
Max. Particle Size . . . . . 1/4" Dia (6.4 lpm)
Max. Temperature Limits . . . . . 150˚ F (66˚ C)
Displacement/Cycle . . . .0.73 Gallon (2.76 litre)
Cycles Per Gallon (Litre) . . . . . 1.3 (.36)
Noise Level with silencer
@ 70 Psi @ 60 Cyc/Min . . . . . 77.7 db(A)
Air Motor . . . . . Unbalanced

Specifications

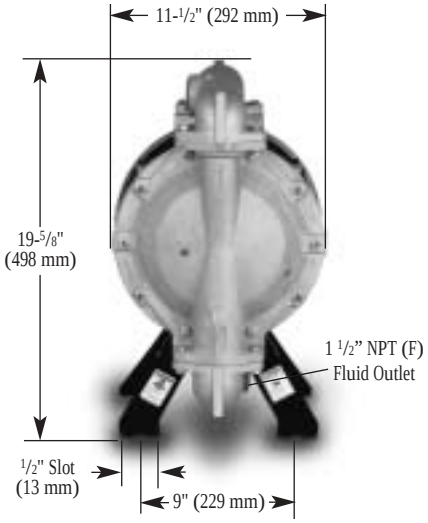
Wetted Pump Material . . . . . Stainless Steel
Diaphragm Material . . . . . Teflon
Seat . . . . . Stainless Steel
Balls (standard) . . . . . Teflon
Weight
Stainless Steel . . . . . 84 lbs (38.1 kgs)
Air Motor Repair Kit. 862003

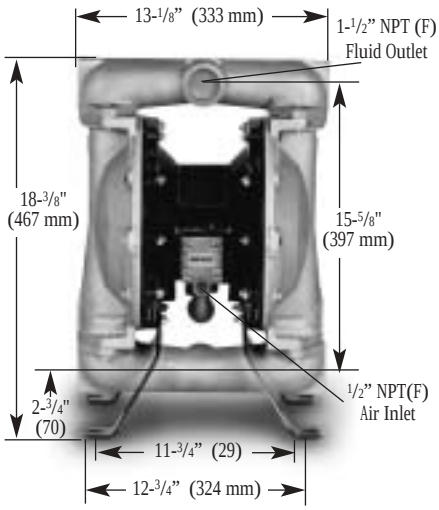
Part Numbers

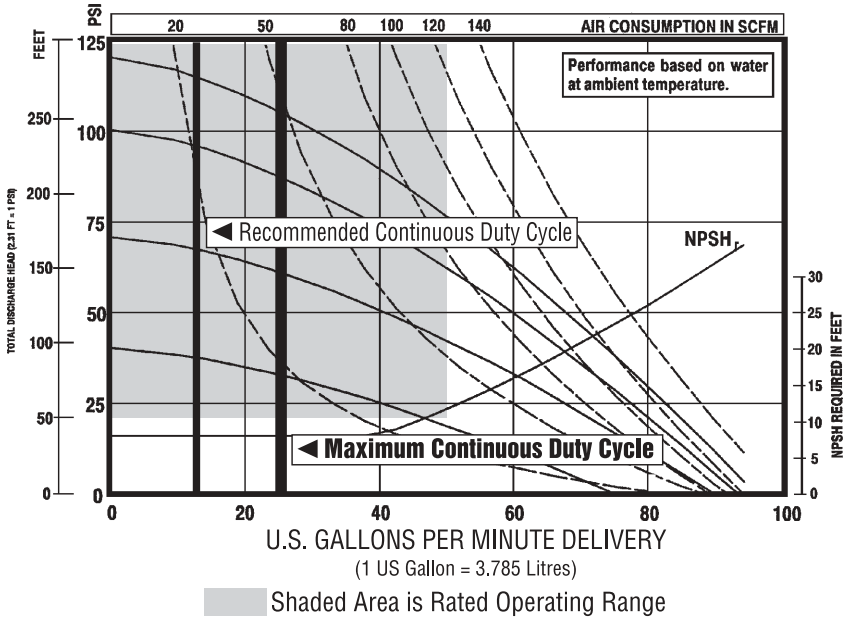
Diaphragm Repair Kit 862010
Ball & Seat Repair Kit
Teflon (Ball) SS (Seat) 862015

Recommended Accessories

Air Control 849303
Wall Mount 873135

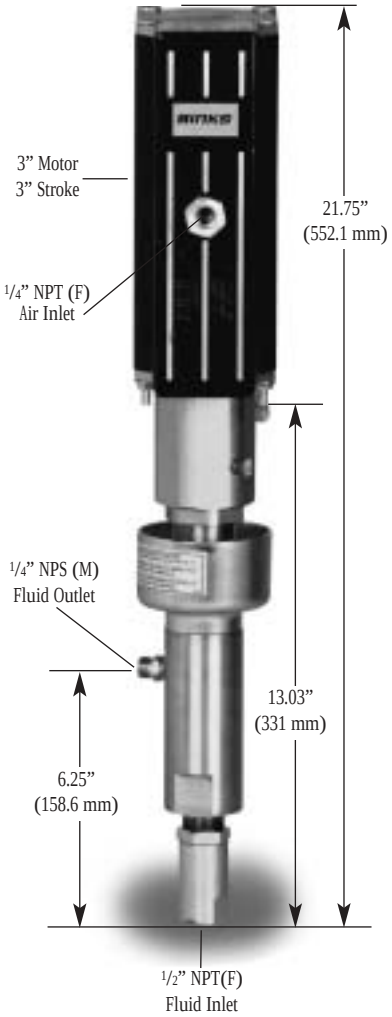






Infinity "N" Series Pumps

Bare Pump #812370 – Ratio 28:1 & Pump #812395 – Ratio 4:1 (Drum)



NOTE: 28:1 Shown
4:1 Pump Is Not Shown

Performance

Air Inlet Pressure
28:1 . . . . . 30 - 150 PSI (2 - 10.2 bar)
Fluid Pressure
28:1 . . . . . 840 - 4200 PSI (57.1 - 285.7 bar)
4:1 . . . . . 120 - 600 PSI (8.1 - 40.8 bar)
Max. Rated Cycles Per Minute 120
Displacement In^3 Per Cycle
28:1 . . . . . 1.47 ($24\ cm^3$)
4:1 . . . . . 8.2^3 ($134.3\ cm^3$)
Cycles Per Gallon (Litre)
28:1 . . . . . 157.5 (41.6)
4:1 . . . . . 28 (7.4)
Flow @ 60 Cycles/Minute
28:1 . . . . . 0.38 GPM (1.41 lpm)
4:1 . . . . . 2.1 GPM (7.41 lpm)
Noise Level with silencer
@ 60 Psi @ 40 cycles min. . . . . 85 db(A)

Specifications

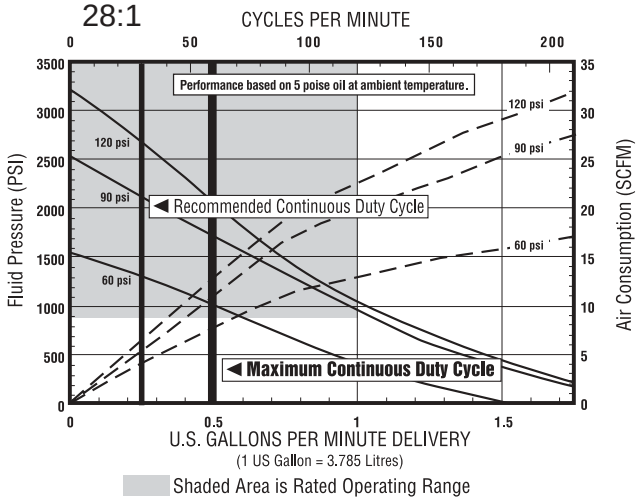
Lower Pump Material . . . . . Stainless Steel
Plunger Material . . . . . Stainless Steel
Cylinder Material . . . . . Stainless Steel
Packing Set . . . . . UHMW Polyethylene
Max. 120° F Fluid Inlet Temp.
Max. 180° F Fluid Inlet Temp. Optional Packing
Weight (28:1) . . . . . 13 lbs. (5.9 kgs.)
Weight (4:1) . . . . . 46 lbs. (20.7 kgs.)
4:1 Pump
Fluid Inlet . . . . . $1^1/_4$" NPT (F)
Fluid Outlet . . . . . $^3/_4$" NPT (F)

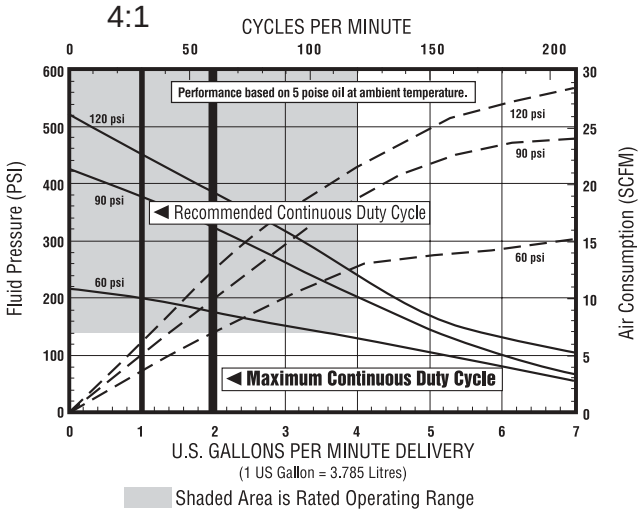
Part Numbers

Air Motor
28:1 842000
4:1 842005
Air Motor Repair Kit
28:1 861030
4:1 861030
Lower Pump Assembly
28:1 871050
4:1 871090
Lower Pump Repair Kit(UHMW)
28:1 861040
4:1 861083
Lower Pump Repair Kit(Teflon/Leather)
28:1 861041
4:1 861082

Recommended Accessories

Air Control 849303
Wall Mount 873116
Strainer 841006
Wet Sol Packing Lubricant 863009





Infinity "Pogo" Pump

Bare Pump #812300 (SS), #812304 Stub (SS), & #812302 (CS) – Ratio 2:1

Performance

Air Inlet Pressure . . . 30 - 150 PSI (2 - 10.2 bar)
Fluid Pressure Range 60 - 300 PSI (4 - 20.4 bar)
Max. Rated Cycles Per Minute. 120
Displacement In^3 Per Cycle . . 7.2 (117.9 cm^3)
Cycles Per Gallon (Litre). 32 (8.4)
Flow @ 120 Cycles/Minute. .4 GPM (15.1 lpm)
Noise Level @ 60 Psi . . . . . 77.8 db(A)

Specifications (Stainless)

Lower Pump Material. . . . . 316 Stnls. Steel
Plunger Material . . . . . 316 Stnls. Steel
Cylinder Material . . . . . Stainless Steel
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max. 180˚ F Fluid Inlet Temp.
Weight Drum. . . . . 19 lbs. (8.6 kgs.)
Stub . . . . . 16 lbs. (7.2 kgs.)

Part Numbers (Both SS Pumps)

Air Motor 873008
Air Motor Repair Kit. 861034
Lower Pump Assembly 873009
SS 873200
SS Stub 873009
Lower Pump Repair Kit (same) 861037
Optional Teflon Packing 861038

Specifications (Carbon Steel)

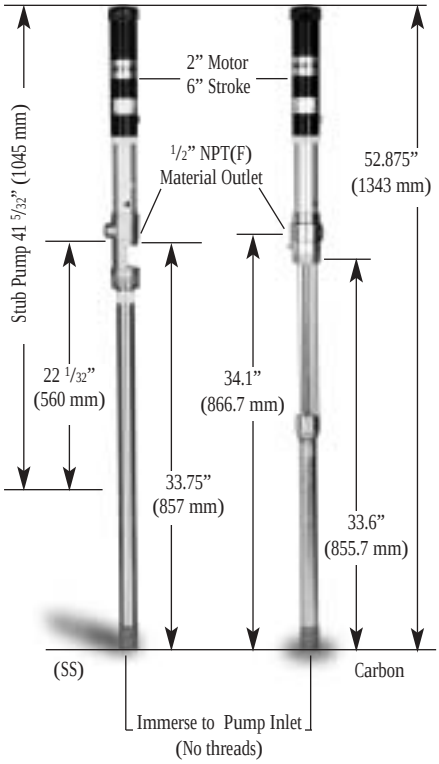
Lower Pump Material . . . . . Carbon Steel
Plunger Material . . Carbon Steel (Chrome Plated)
Cylinder Material . . . . . Carbon Steel
Packing Set. . . . . UHMW Polyethylene
Max. 120˚ F Fluid Inlet Temp.
Max. 180˚ F Fluid Inlet Temp. Optional Packing
Weight . . . . . 12 lbs. (5.4 kgs.)

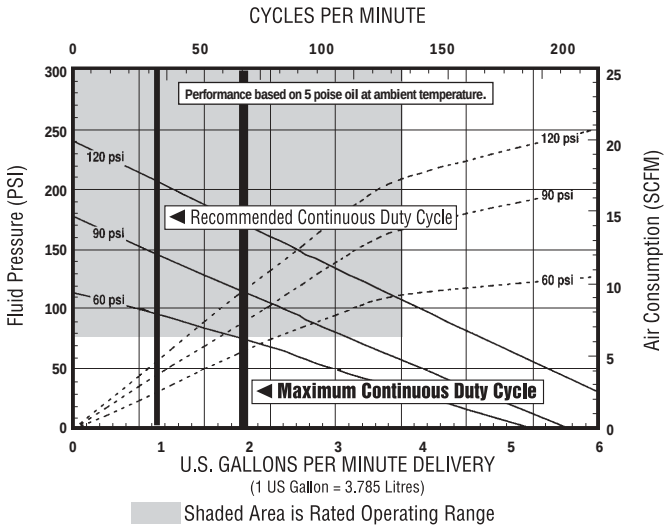
Part Numbers (Carbon Steel)

Air Motor 873008
Air Motor Repair Kit 861034
Lower Pump Assembly. 873010
Lower Pump Repair Kit 861035
Optional Teflon Packing 861036

Recommended Accessories

Air Controls 849303
Silencer 873191
Wall Mount 873184
1:1 Drum Pump Carbon Steel 812306





Pump Support Products

Mounts, Carts & Silencers

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, & 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

873115

Wall Mount Bracket. . . . . Used with 4-1/4" air motor and 6" air motor. Infinity 2-ball, 4-ball and 1" diaphragm pumps.

873134

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

873116

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, & 1/2" diaphragm pumps.

Post Mounts

873185

873185

Mounting Post. . . . . Floor stand mounting post with 4-1/4", 6" & 8" air motors

Pump used with . . . . Infinity 2-ball & 4-ball pumps.

Portable Carts

873186

873186

Portable Cart . . . .Will clear 28" (711 mm) openings. Unique "chair" design distributes pump weight and makes moving easy. 12" (305 mm) pneumatic tires also enhance . . . . . .smooth transport.

Pump used with. . . . . 4 1/4 & 6 Air motor - 2 ball.

873187

Fluid Inlet Adaptor . . . . required with cart mounting

873187

Air Motor Silencers

873191 873158 873190

Reduces air exhaust noise level to acceptable OSHA standards.

873191

Pump used with. . . . . 2" air motor, 2:1 ratio pumps
Air Inlet NPT . . . . . 3/8 (M)
Size (Inches x Inches) . . . . . 1-1/4 x 3-1/2
PSI (bar) . . . . . (32 x 89)

873158

Pump used with . . . . . 4-1/4" & 6" air motor pumps
Air Inlet NPT . . . . . 1-1/4 (M)
Size (Inches x Inches) . . . . . 3-1/2 x 11-3/16
PSI (bar) . . . . . (89 x 284)

873190

Pump used with. . . . . 8" air motor pumps
Air Inlet NPT . . . . . 1-1/4 (M)
Size (Inches x Inches) . . . . . 5-5/8 x 15-3/8
PSI (bar) . . . . . (143 x 391)

Wet Sol "Plus"

863009

Wet Sol - 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

USED ON ALL PUMPS

849303 . . . . . Filter/Regulator
5 micron filter, metal bowls

Filter/Regulator
Port Size NPT. . . . . 1/2" (F)
Reg. Pressure Range PSI (bar)5-125 (.3-8.5 bar)
Max. Flow. . . . . 140 SCFM (66 dm^3/s)

Accessories

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.

Pump Protector

41-11150
Adjustable to 150 CFM, 20 - 125 PSIG

Lubricator

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
1/4" . . . . . 75 SCFM (35 dm^3/s)
1/2" . . . . . 110 SCFM (52 dm^3/s)

Safety Shutoff/Lockout Air Valve

(Lockout Hasp Not Included) Mounts to air control or lubricator

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

Air Line Lubricant

863020
One Quart Bottle . . . . . .
A high quality "EP" extreme pressure gear oil, non-detergent, rust or oxidation inhibited, with a viscosity of 700-1000 S.U.S. at 100° F.

Air line lubricator for air motor.

Fluid Regulators

HGB-609 Fluid Pressure Regulator Assembly

Low Pressure Fluid Regulator

MODEL PART NO.	MATERIAL (WETTED PARTS)	INLET/OUTLET PORTS	INLET PRESSURE MAX.	REG. OUTLET PRESSURE	MAX. REG FLUID FLOW	MAX. TEMP
HGB-609	Stainless Steel body Teflon® and Nylon	3/8"	175 psi	0-75 psi	8 gal./min.	180° F
84-409	Stainless Steel body Stainless Steel	3/8"	200 psi	5-100 psi	1 gal./min.	
84-320	Stainless Steel body Stainless Steel	3/8"	200 psi	5-55 psi	1 gal./min.	
845020	Tungsten Carbide Tungsten Carbide	1/4"	750 psi	0-30 psi	3 gal./min.	180° F
84-410	Stainless Steel body Stainless Steel	3/8"	100 psi	1-12 psi	12 oz./min.	

845020

84-320
84-409
84-410

HGS Fluid Regulators

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.

Gun Mounted Regulator Models

STANDARD FLOW MODELS PART NO.	CONTROL	FLUID INLET	FLUID OUTLET
HGS-5112	Air Pilot	1/4" NPSM(M)	3/8" Swivel
HGS-5113	Air Pilot	1/4" NPSM(M)	Standpipe
HGS-5122	Air Pilot	3/8" NPSM(M)	3/8" Swivel
HGS-5132	Air Pilot	1/8" NPT(F)	3/8" Swivel
HGS-5133	Air Pilot	1/8" NPT(F)	Standpipe
HGS-5211	Manual Adjust	1/4" NPSM(M)	Bayonet†
HGS-5212	Manual Adjust	1/4" NPSM(M)	3/8" Swivel
HGS-5221	Manual Adjust	3/8" NPSM(M)	Bayonet†
HGS-5222	Manual Adjust	3/8" NPSM(M)	3/8" Swivel
HGS-5231	Manual Adjust	1/8" NPT(F)	Bayonet†
HGS-5232	Manual Adjust	1/8" NPT(F)	3/8" Swivel
HGS-5233	Manual Adjust	1/8" NPT(F)	Standpipe
HGS-5239*	Manual Adjust	3/8" NPSM(F)	3/8" NPSM(M)
HGS-5242*	Manual Adjust	3/8" NPS(M)	3/8" Swivel
HGS-5312	Tamper Resist	1/4" NPSM(M)	3/8" Swivel
HGS-5313	Tamper Resist	1/4" NPSM(M)	Standpipe
HGS-5321	Tamper Resist	3/8" NPSM(M)	Bayonet†

**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.

Fluid Regulators

Downstream Medium Flow

Model Number	Body/ Ball & Seat (See code at bottom)	Regulated Pressure Range PSI (bar)	Working Pressure W/Gauge PSI(bar)	Maximum Inlet Pressure PSI (bar)
1/4" ports, medium pressure to 1 GPM (3.785 litres)				
84-420	S/S, T/C	300-2000	3000	3000
84-520	S/S, T/C	100-900	1000	3500
3/8" ports, medium pressure to 3 GPM (11.4 litres)				
845010	S/S, T/C	400-1250 (27.2-83)		3000 (204)
845011	S/S, T/C	1000-3000 (59-207)		6000 (408)

Low Pressure
845001
(with Gauge)

Downstream High Flow

Model Number	Body/ Ball & Seat (See code at bottom)	Regulated Pressure Range PSI (bar)	Working Pressure W/Gauge PSI(bar)	Maximum Inlet Pressure PSI (bar)
3/8" ports, high pressure to 6 GPM (22.7 litres)				
845001	S/S, T/C	100-800 (7-55)	1000 (69)	1250 (85)
845013	S/S, T/C	2000-5000		6000

High Pressure
845010
845011
(without Gauge)

Back Pressure Models

Model Number	Base Housing Seat (See code at bottom)	Regulated Pressure Range PSI (bar)	Working Pressure W/Gauge PSI(bar)	Maximum Inlet Pressure PSI (bar)
1/4" ports, medium pressure regulator				
84-421	T/C	300-2000	3000	3500
84-521	T/C	100-900	1000	3500
3/8" ports, high-flow to 6 GPM (22.7 litres)				
845000	S/S, T/C	0-200 (0-14)	200 (14)	200 (14)
845002	S/S, T/C	0-800 (0-14)	800 (55)	800 (55)
845012	S/S, T/C	1000-3000		3000
1/2" port, low shear to 1 GPM (3.78 litres)				
84-601	S/S, S/S	0-200 (0-14)	200 (14)	200 (14)
3/4" ports, high-flow to 11 GPM (41.6 litres)				
84-404	S/S, S/S	10-140	150	150
Optional Gauge: 84-246 – 0 - 200 Psi Ga				
1-1/4" ports, system-flow** to 18.5 GPM (701 litres)				
845003	S/S, T/C	0-200 (0-14)	200 (14)	200 (14)

Material Codes			
T/C	Tungsten Carbide	S/S	Stainless Steel

** Flow rates tested in 55 CPS Material.

84-420
84-421
84-520
84-521
(Shown with gauge 84-240 – not included)

Optional Gauges
101-3069
84-491

845000
845002
(with Gauge)

84-404
(without Gauge)

Syphon Hoses & Ball Valves

Syphon Hoses

PART NUMBER	DESCRIPTION	TUBE	CONSTRUCTION FITTINGS	W/PSI	5 GALLON	55 GALLON
Syphon						
874500	1" syphon hose with 16" wand (3/4)	Nylon	SS		X	
874501	1" syphon hose with 36" wand (3/4)	Nylon	SS			X
874504	1/2" syphon hose with 16" wand	Nylon	SS		X	
135-54	1/2" syphon hose with 14" wand	Nylon	SS		X	
135-64	1/2" syphon hose with 34" wand	Nylon	SS			X

Ball Valves

Air & Fluid Valve (Low Pressure)

	Screw Thread	Hand
172026	1/4" B.S.P. (Male)	LH Lever
172027	1/4" B.S.P. (Male)	RH Lever
172028	3/8" B.S.P. (Male)	LH Lever
172029	3/8" B.S.P. (Male)	RH Lever

A compact, high quality valve for use with non-corrosive fluids and air at low pressure.

Fluid Valve

172-91116. . . . . 1/4" NPS (M) x 1/4" NPT (M)

172-91712. . . . . 3/8" NPS (M) x 3/8" NPT (M)

A medium pressure, stainless steel, compact, high quality valve especially suited for corrosive fluids.

Bunghole Adapters

41-2228

41-2228 . . . . . Bunghole adaptor for 3/4" npt tube size

Needed to Mount to Drum Cover

20-1399 . . . . . Set Screw

41-755. . . . . Washer

20-2454. . . . . Lock Nut

HP Swivel

72-780 H.P. airless Swivel

. . . . . 1/4" NPS Connector x 1/4" NPS (M)

Fluid Conditioning

Fluid Heaters & Accessories

High Pressure, lightweight, compact & explosion-proof construction. Working capacity to 5000 PSI and with adjustable thermostatic control from 60° to 250°F. The typical temperature rise with a flow of 15 gallons per hour is 100°F.

830000

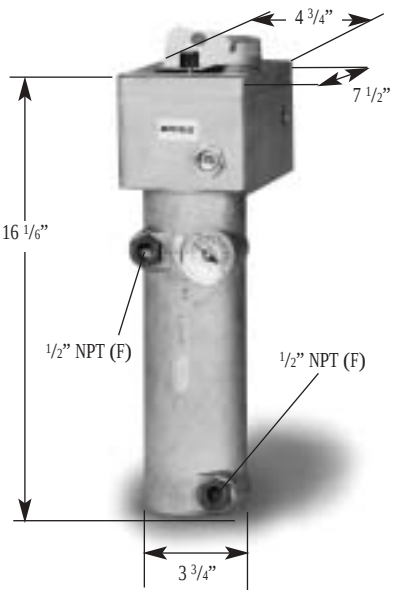
Fluid Heater . . . . . 2000 watts
Wetted . . . . . Stainless Steel
W/PSI . . . . . 5000 (340 bars)
Voltage . . . . . 120 (16.6 AMPS)

830001

Fluid Heater . . . . . 2000 watts
Wetted . . . . . Stainless Steel
W/PSI . . . . . 5000 (340 bars
Voltage . . . . . 240 (8.33 AMPS)

830002

Fluid Heater . . . . . 2000 watts
Wetted . . . . . Stainless Steel
W/PSI. . . . . 5000 (340 bars)
Voltage . . . . . 440 (4.5 AMPS)



135-80

103-1241

841006

873146
873147

41-2661
41-2662

873188

Materials Filters, Screens & Inlet Strainers

PART NUMBER	DESCRIPTION	PORT INLET	PORT OUTLET	MESH	MICRONS (INCH)	MATERIAL	WORKING PSI
Materials Filters – Standard Models							
*841006	High Pressure Strainer–Stainless Steel	1/2"npt	1/2"npt	100	149 (.004)	stainless	6000
103-1241	In line ST ST filter	3/8"nps (F)	1/4"nps (M)	50	280 (.012)	stainless	4000
135-80	Nylon Filter/Anti Pulsation Assy. (Low Pressure)	3/8"npt	3/8"npt	40	381 (.015)	nylon & ss	150
**Outlet Adaptor to mount 841006*							
873188	For mounting material filter	1"npt(M)	1/2"npt (M)	—			—
Replacement Elements							
873146	Replacement Strainer for 841006			70	200 (.008)	stainless	
873147	Replacement Strainer for 841006			100	149 (.004)	stainless	
83-2089	Replacement Strainer for 103-1241			50	280	stainless	
83-1256	Replacement Strainer for 103-1245			100	149 (.004)	stainless	
135-78	Replacement Strainer for 135-80			40	381 (.015)	stainless	
Gun Mounted – Material Filter Screens							
VS-534	Filter Assembly	3/8"nps (F) sw	3/8"nps (M)	100	149 (.004)	stainless	300
PLH-MF-6-100	Final Filter	3/8"nps (M)	3/8"nps (F)	100	149 (.004)	carbon	250
41-1415	In line high pressure filter	1/4"nps swi (F)	1/4"nps (M)	50	280 (.012)	stainless	6000
Inlet Strainer – On Inlet Of Pickup Tube							
41-2661	1/2" For syphon hose 874504	1/2"npt (F)		30	500 (.021)		
41-2662	3/4" For syphon hose 874500 & 874501	3/4"npt (F)		30	500 (.021)		

Drum Covers & Agitators

Drum Covers

874502 Lip Only

Drum Cover . . . . . Stainless. Steel, Opening accepts optional Syphon Tube/Hose & Agitator.

Container Size . . . . . 5 Gallon

843000

843000

Container Size . . . . . 5 Gallon

Mounts (Order Separately) . . . . . 874502 Drum Cover

Motor Specifications

Air Motor Model QMS-428

H.P. 3/4

Motor R.P.M. 300-3000

Shaft Specifications

Mount . . . . . Hub

Diameter in. (mm) 1/2 (12/7)

Length in. (mm) 12 (305)

Material 316SS

Propeller Specifications

Number of Props 1

Diameter in. (mm) 4 (102)

Material 316SS

Direction . . . . . CCW

Agitators

31-129

31-131

31-129

Direct drive agitator

Container Size . . . . . 55 Gallon

Mounts (Order Separately) . . . . . Drum Cover

Motor Specifications

Air Motor Model . . . . . Direct

H.P. 1/4

CFM 10-14

Shaft Specifications

Mount . . . . . Flange

Diameter in. (mm) 1/2 (12/7)

Speed . . . . . to 1000

Propeller Specifications

Number of Props 2

Diameter in. . . . . 4 1/2"

Material . . . . . Stainless Steel

31-131

Gear reduced drive agitator

Container Size . . . . . 55 Gallon

Mounts (Order Separately) . . . . . Drum Cover

Motor Specifications

Air Motor Model . . . . . Gear

H.P. 1/4

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. . . . . 14 1/2"

Material . . . . . Stainless Steel

Surge Chambers & Lifts

Surge Chambers

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 ..... Teflon

Accessories

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.

873067

Grounding Wire Kit – 25 feet of 12 gauge heavy-duty sheathed wire and wire end attachments.

Lift / Elevator

10 69 30

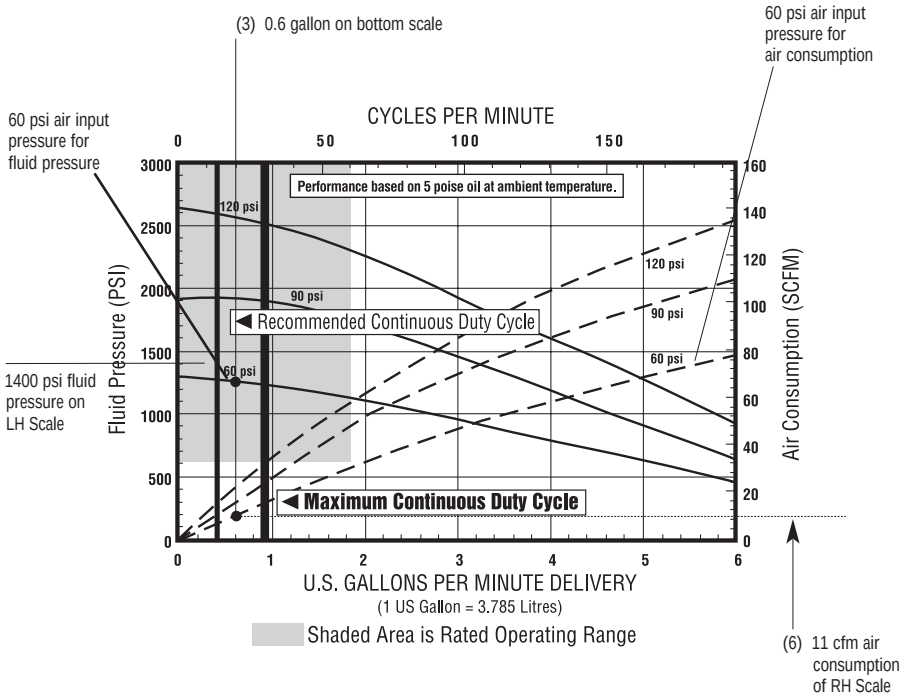
Single Post Lift / Elevator c/w with cover.
The pneumatic operated elevator is driven both upwards and downwards by an air cylinder which has adjustable cushioning at each end of its stroke, minimising inconvenience for the operator.

How to Read Pump Performance Graphs

1. Determine pressure required and select pump ratio.
2. Determine flow required for fluid.
3. On applicable pump page draw a vertical line through the flow required on the bottom axis.
4. Using ONE of the air input pressures i.e. 60, 90 or 120 PSI the one closest to that required.
5. FLUID PRESSURE is read where the air pressue (solid curved line) crosses the vertical line drawn in for desired flow and this point is taken across to the left hand PSI pressure scale where output pressure can be read.
6. AIR CONSUMPTION is read where the air pressure (dotted curved line) crosses the vertical line drawn in for desired flow and this point is taken across to the right hand SCFM flow scale where air consumption can de read.

EXAMPLE

2.2 litres @ 1000psi required.
60psi Air pressure available.
2.2 litres = 0.6 gallons.



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