Bellows Pumps

The Newest Technology in Piston Pumps

PROVEN QUALITY. LEADING TECHNOLOGY.
Merkur™ Bellows

The gentle pumping action of the Merkur Bellows Pump, combined with reduced sealing surfaces, provides superior handling of shear-sensitive materials, including UV coatings and waterborne materials.

Applications
- Catalyzed coatings
- Varnish and lacquer
- High solid coatings
- Abrasive materials
- Solvent and waterborne materials
- Moisture-sensitive materials
- UV-cure coatings
- Flat line machine lines
- General finishing applications where open wet cups are not preferred

Operator Control Panel
- Air controls located at operator height for easy setting and monitoring

DataTrak™
- Easy-to-set runaway protection
- Pump diagnostics for maintenance
- Resettable batch counter tracks material usage and maintenance schedule
Powerful Capabilities in a Unique Piston Pump

Merkur Air Motor Technology
- Highest technology air motor on the market
- Low air consumption for increased efficiency
- Simple air motor design and minimal parts reduces repair time

Leak Proof Pump Lower
- Easy-to-flush design allows for fast colour changes and reduced material waste
- 300 series stainless steel pump construction provides long-lasting durability
- Fewer parts and online replacement bellows seal means improved serviceability, lower cost of ownership and reduced downtime

1. Air Valve
Provides smooth and rapid changeover

2. Quick Removal Coupler
Allows for easy disassembly of the pump lower from the air motor

3. Rotatable Inlet Fitting
Inlet can be rotated 360 degrees for easy access

4. Improved Bellows Seal Design
Eliminates throat seal leakage and lubrication

5. Overflow Chamber (Optional)
D-shaped seal and overflow chamber contains the material within the pump in case of bellows leakage

6. Throat and Piston Packings
- Spring-loaded to maintain long packing life – no adjustments needed
- Available with V-Packing seals for abrasives or U-Cup seals for UV coatings

Less Pulsation for Better Results
Merkur is designed to provide a smooth, rapid changeover for a better, more consistent finish and less user fatigue.
Known for its robust design, the Glutton pump features a bellows seal that virtually eliminates the possibility of air or moisture contaminating the fluid.

Choose the heavy-duty Glutton when no other pump can handle the job!

**Applications**

- Air spray and HVLP supply
- Circulating systems
- Catalyzed coatings
- Varnish and lacquer
- High solid coatings
- Abrasive materials
- Solventborne and waterborne fluids
- Moisture sensitive materials
- UV-cure coatings
- Flatline machine lines
- General finishing applications where open wet cups are not preferred
The Heavy-Duty, Low Maintenance Solution

Compact Design

1. Vertical Ball Check
   - Reversible seats for uniform wear and long service life
   - External check allows for quick maintenance for materials that pack or mat out easily

2. External Air Valve
   - Easy installation and maintenance

3. Outlet Manifold
   - Simplifies plumbing and installation

4. Pump Stand
   - Included for easy mounting

5. Cylinder and Displacement Rod
   - Designed to handle a broad range of coatings

6. Piston Seal
   - Multiple configurations for material compatibility

7. Heavy-Duty Bellows Seal (Optional)
   - Designed for longer life in abrasive applications

8. Carbide Seat Accessory
   - Ideal for abrasive materials
Merkur Bellows Ordering Information

### Package Description:

**Pump:** Package includes pump, pump only air controls. Siphon tube, hoses, and guns are not included.

**AA:** Air-Assisted Airless package includes pump, pump and gun air controls, G15 or G40 guns, fluid hose, gun fluid hose, gun air hose, 19 liter (5 gallon) tail suction hose and tube

**AL:** Airless package includes pump, pump air controls, XTR gun, fluid hose, gun fluid hose, 19 liter (5 gallon) tail suction hose and tube

**ES:** Electrostatic package includes pump, pump and gun air controls, PRO AA Xs4 Smart Gun, fluid hose, gun fluid hose, gun air hose, 19 liter (5 gallon) tail suction hose and tube

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</thead>
<tbody>
<tr>
<td>Pump Volume per Cycle</td>
<td>150 cc</td>
<td>100 cc</td>
<td>50 cc</td>
<td>150 cc</td>
<td>100 cc</td>
<td>150 cc</td>
<td>50 cc</td>
<td>100 cc</td>
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<tr>
<td>Air Motor Displacement</td>
<td>400 cc</td>
<td>700 cc</td>
<td>400 cc</td>
<td>1200 cc</td>
<td>1200 cc</td>
<td>1200 cc</td>
<td>1800 cc</td>
<td>700 cc</td>
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<tr>
<td>Maximum Fluid Outlet Pressure</td>
<td>35 bar (500 psi)</td>
<td>63 bar (1200 psi)</td>
<td>103 bar (1500 psi)</td>
<td>156 bar (2200 psi)</td>
<td>165 bar (2400 psi)</td>
<td>172 bar (2500 psi)</td>
<td>241 bar (3500 psi)</td>
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<tr>
<td>Maximum Air Inlet Pressure</td>
<td>7 bar (100 psi)</td>
<td>7 bar (100 psi)</td>
<td>7 bar (100 psi)</td>
<td>7 bar (100 psi)</td>
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<td>7 bar (100 psi)</td>
<td>7 bar (100 psi)</td>
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<tr>
<td>Fluid Flow @ 60 cpm</td>
<td>9.0 l/min. (2.4 gpm)</td>
<td>6.0 l/min. (1.6 gpm)</td>
<td>3.0 l/min. (0.8 gpm)</td>
<td>9.0 l/min. (2.4 gpm)</td>
<td>6.0 l/min. (1.6 gpm)</td>
<td>9.0 l/min. (2.4 gpm)</td>
<td>3.0 l/min. (0.8 gpm)</td>
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<tr>
<td>Air Consumption @ 7 bar (100 psi) @ 20 cpm</td>
<td>0.17 m³/min (6 scfm)</td>
<td>0.17 m³/min (6 scfm)</td>
<td>0.48 m³/min (17 scfm)</td>
<td>0.74 m³/min (26 scfm)</td>
<td>0.17 m³/min (6 scfm)</td>
<td>0.74 m³/min (26 scfm)</td>
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<tr>
<td>Fluid Inlet Size</td>
<td>3/4” npt (1”)</td>
<td>3/4” npt (1”)</td>
<td>3/8” npt (1”)</td>
<td>3/8” npt (1”)</td>
<td>3/8” npt (1”)</td>
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<tr>
<td>Air Inlet (Air Controls)</td>
<td>3/8” npt (1”)</td>
<td>3/8” npt (1”)</td>
<td>3/8” npt (1”)</td>
<td>3/8” npt (1”)</td>
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Note: Graco recommends 20 cpm or less for intermittent pumping applications and 12 cpm or less for continuous pumping applications.
Merkur Bellows Accessories

Spray Guns
Refer to the spray gun brochure for additional model numbers. All guns include tip of choice.
24C853 G15 Carbide Air-Assisted Spray Gun
24C855 G40 Air-Assisted Spray Gun
24C857 G40 RAC Air-Assisted Spray Gun
XTR501 XTR-5 Airless Spray Gun
244573 PRO X4 AA Smart Electrostatic Spray Gun

Accessories
238926 Back Pressure Regulator
102397 Fluid Gauge
238890 Fluid Regulator
243340 Pail Cover with Agitator - SST
222121 Fluid Regulator, Stainless Steel
24A587 Pump Outlet Fluid Filter, Stainless Steel
258425 Fluid Filter Drain Valve, Stainless Steel
224458 Replacement Filter Screen Element
224459 Replacement Filter Screen Element
24A450 Air Control Gauge Covers
24B187 Second AA Gun Kit
239850 Heater 120 (y)

DataTrak
24A575 Upgrade Kit for 400 cc Air Motors
24A576 Upgrade Kit for 700 cc, 1200 cc and 1800 cc Air Motors
24A592 Upgrade Kit for DataTrak with Cycle Count Only

Suction Hoses
24A954 208 l (5 gal) Drum Suction Hose and Strainer, 3/4 in fluid inlet
24B598 208 l (5 gal) Drum Suction Hose and Strainer, 1 in fluid inlet
24B424 PTFE Lined Suction Hose for 19 l (5 gal) Pails and Strainer, 3/4 in inlet
24B425 PTFE Lined Suction Hose for 19 l (5 gal) Pails and Strainer, 1 in inlet

Gun Hoses
256390 7.5 m (25 ft) Air Hose
241812 7.5 m (25 ft) Fluid Hose: 228 bar (3300 psi)
24A955 15 m (50 ft) Bundled Air and Fluid Hose: 228 bar (3300 psi)
256389 15 m (50 ft) Air Hose
24B562 15 m (50 ft) Fluid Hose: 228 bar (3300 psi)
24A588 Hose Clips: Pack of 10

Instruction and Parts Manuals
312799 Merkur Bellows AA and Airless Spray Package
312798 Merkur Electrostatic Spray Package
312795 Merkur Bellows Pump Assembly
312793 Merkur Bellows Displacement Pump
312796 Merkur Air Motor

Glutton Bellows Ordering Information and Accessories

Technical Specifications

<table>
<thead>
<tr>
<th>Ratio</th>
<th>Glutton 4:1</th>
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<tr>
<td>Output per cycle</td>
<td>355 cc</td>
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<tr>
<td>Max working pressure</td>
<td>28 bar (400 psi)</td>
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<td>Max air input pressure</td>
<td>7 bar (100 psi)</td>
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<tr>
<td>Output at 60 cpm</td>
<td>21.2 l/min. (5.6 gpm)</td>
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<td>Pump inlet size</td>
<td>1.25 npt(f)</td>
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<tr>
<td>Pump outlet size</td>
<td>1 npt(f)</td>
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<td>Pump manual</td>
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Pump Construction

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<th>Material</th>
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<tr>
<td>CS</td>
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<tr>
<td>CS</td>
<td>UHMWPE</td>
<td>220663</td>
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<tr>
<td>SST</td>
<td>Nylon</td>
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</tr>
<tr>
<td>SST</td>
<td>UHMWPE</td>
<td>220666</td>
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Accessories
206221 Glutton Wall Bracket
102969 Loclehe® High Strength Sealant
To secure piston shafts to the piston stud.
223319 Return Tube Kit for returning circulated fluid back to a 200 liter (55 gallon) drum
Includes SST return tube, SST bushing and SST elbow
208259 200 liter (55 Gallon) Suction Kit
Suction hose (3/4 in ID x 1.8 m (6 ft)), elbow, bung adapter, riser tube,
3/4 in npt(f) outlet fitting.
204385 Elevator with Fixed Mounting
Use with 237949 and 237579 to raise and lower pump when changing drums
237949 Stainless Steel Drum Cover Kit 200 liter (55 gal)
Includes SST drum cover, agitator gasket, access hole plug and fasteners
237579 Air Control Kit for 204385 elevator to raise and lower drum cover
222345 Air Filter/Regulator/Lubricator Kit

Replacement Parts
220656 Air Valve and Pilot Valve Repair Kit
24C134 Piston Seals and Bellows Kit – UHMWPE
24C135 Piston Seals and Bellows Kit – Nylon
220658 Piston Seal Kit – Urethane
221134 Carbide Ball and Seat Kit (2 each)
189432 Fluid Piston – SST
686499 Fluid Piston – Ceramic
ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company’s success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco’s ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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All written and visual data contained in this document are based on the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

Graco is certified ISO 9001.