



# Bellows Pumps

Robust, Reliable, Industrial Liquid Finishing Technology



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 color 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

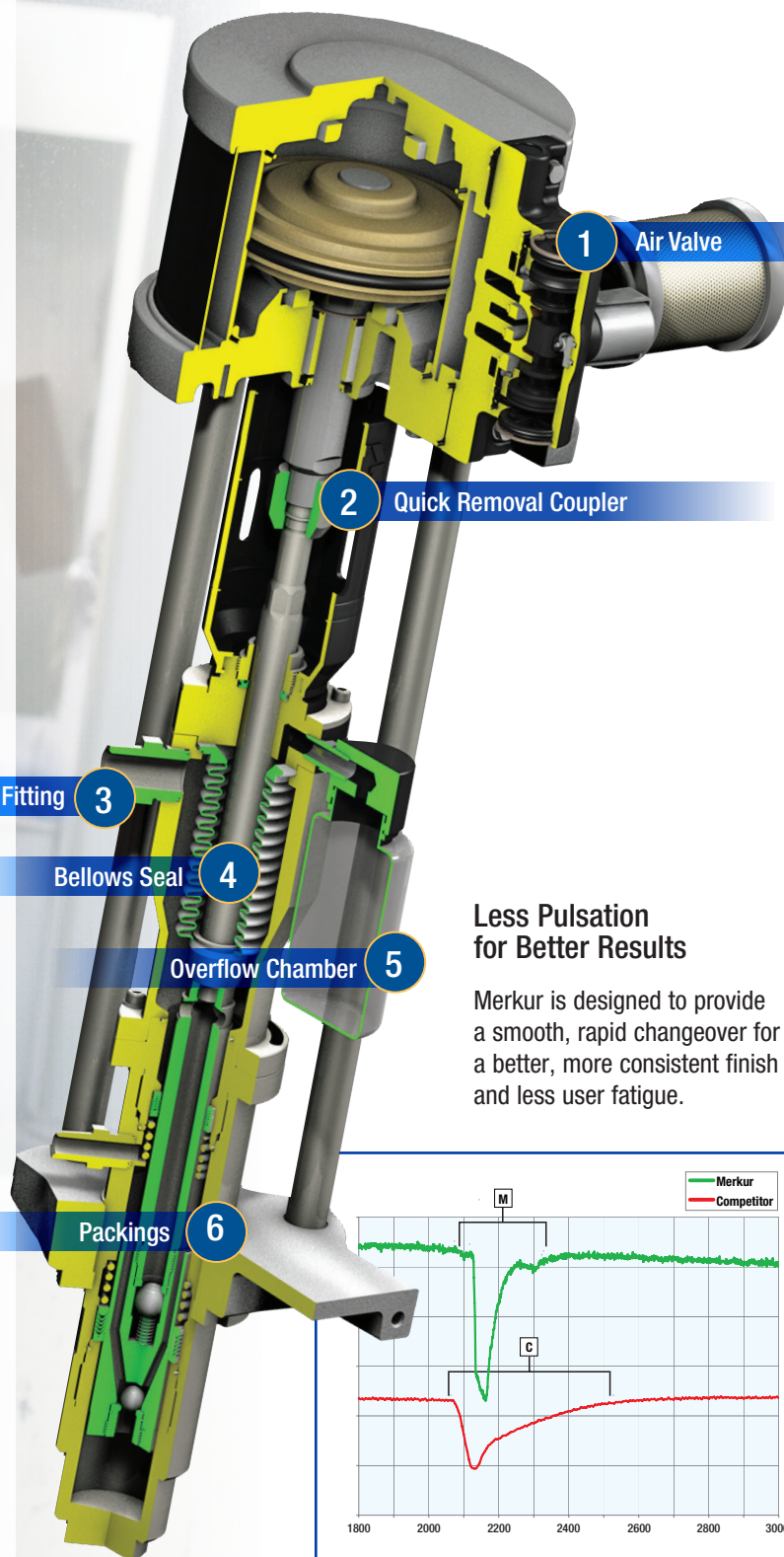
Eliminates throat seal leakage and lubrication

### 5. Overflow Chamber (Optional)

D-shaped seal and overflow chamber contains the material within the pump in case of bellows leakage

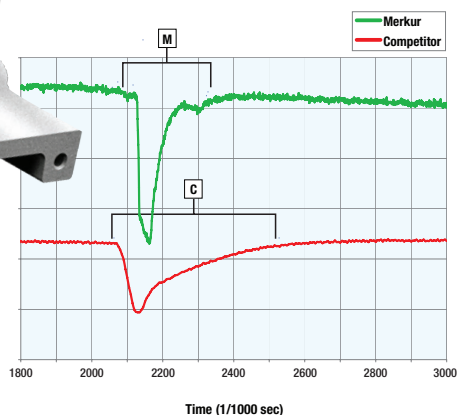
### 6. Throat and Piston Packings

- 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.



- M** — Quick changeover and recovery minimizes pulsation and creates an even film thickness
- C** — Longer changeover and pressure spike creates inconsistent finish



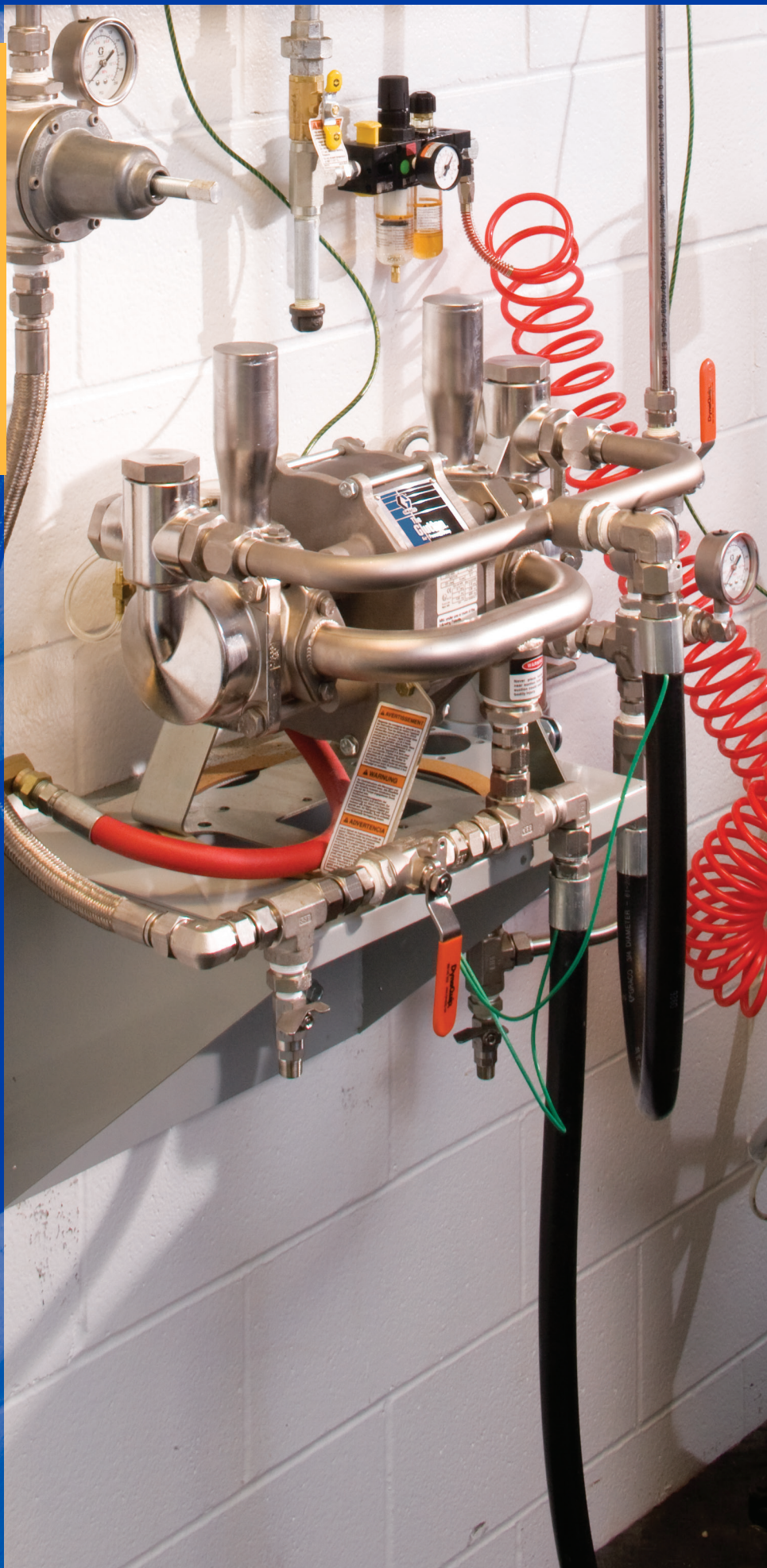
# Glutton® Bellows

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

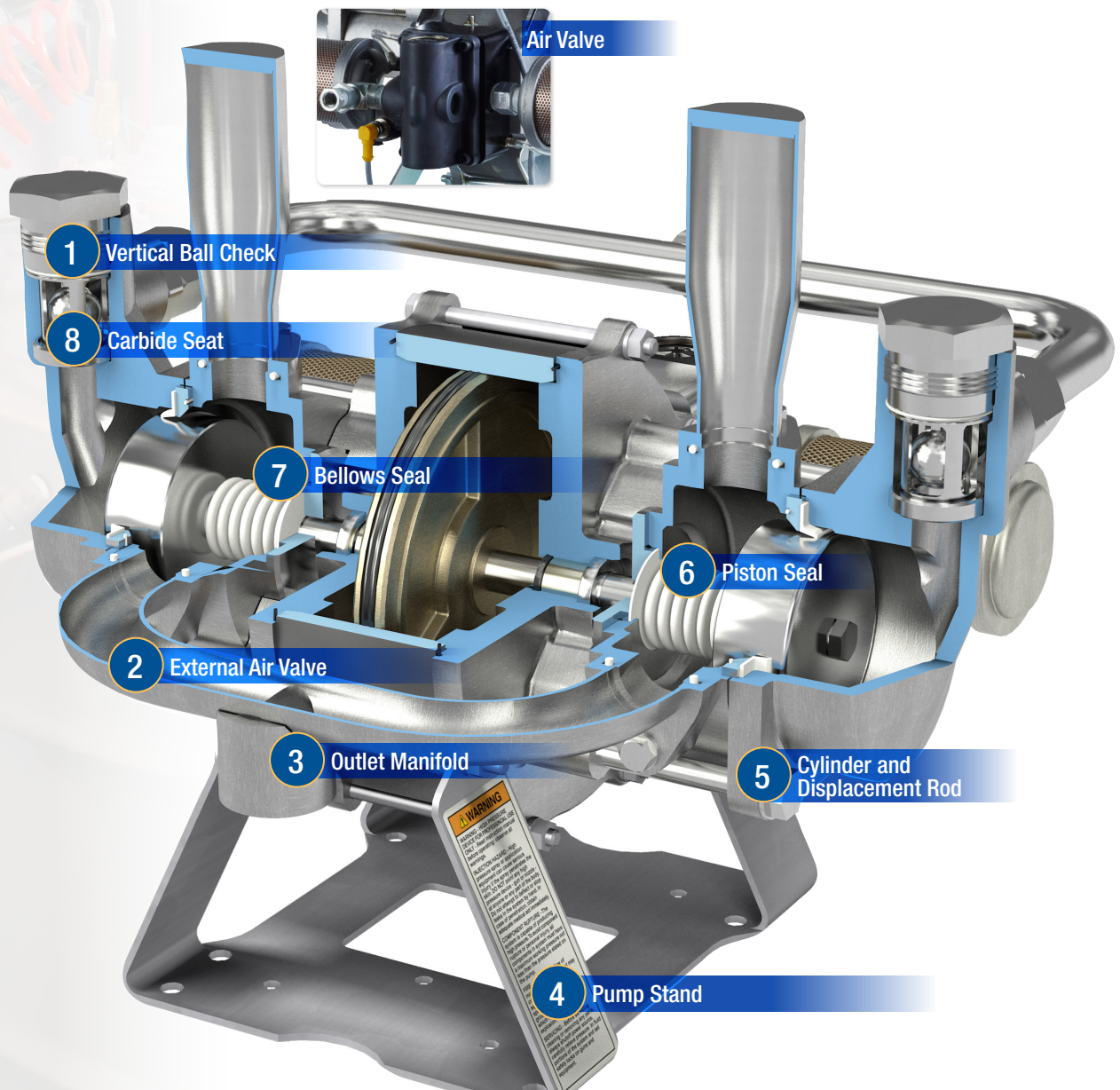
- Multiple configurations for material compatibility

### 7. Heavy-Duty Bellows Seal

- 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 Assist package includes pump, pump and gun air controls, PerformAA 15 or PerformAA 50, fluid hose, gun fluid hose, gun air hose, 5 gallon (19 l) pail suction hose and tube

Ratio	5:1	15:1	15:1	23:1	24:1	35:1
Pump Volume per Cycle	150 cc	50 cc	150 cc	100 cc	150 cc	100 cc
Air Motor Displacement	400 cc	400 cc	1200 cc	1200 cc	1800 cc	1800 cc
Maximum Fluid Outlet Pressure	500 psi (35 bar)	1500 psi (103 bar)	1500 psi (103 bar)	2300 psi (158 bar)	2400 psi (165 bar)	3500 psi (241 bar)
Maximum Air Inlet Pressure	100 psi (7 bar)	100 psi (7 bar)	100 psi (7 bar)	100 psi (7 bar)	100 psi (7 bar)	100 psi (7 bar)
Fluid Flow @ 60 cpm	2.4 gpm (9.0 lpm)	0.8 gpm (3.0 lpm)	2.4 gpm (9.0 lpm)	1.6 gpm (6.0 lpm)	2.4 gpm (9.0 lpm)	1.6 gpm (6.0 lpm)
Air Consumption @ 100 psi (7 bar) @ 20 cpm	6 scfm (0.17 m3/min)	6 scfm (0.17 m3/min)	17 scfm (0.48 m3/min)	17 scfm (0.48 m3/min)	26 scfm (0.74 m3/min)	26 scfm (0.74 m3/min)
Fluid Inlet Size	1" npt(m)	3/4" npt(m)	1" npt(m)	3/4" npt(m)	1" npt(m)	3/4" npt(m)
Fluid Outlet Size	3/4" npt(m)	3/8" npt(m)	3/4" npt(m)	3/8" npt(m)	3/4" npt(m)	3/8" npt(m)
Air Inlet (Air Controls)	3/8" npt(f)	3/8" npt(f)	3/8" npt(f)	3/8" npt(f)	3/8" npt(f)	3/8" npt(f)

Seal	Mount	Package	Drain Valves	Fluid Filter	DataTrak						
Ratio						5:1	15:1	15:1	23:1	24:1	35:1
V-Packing	Wall	Pump		•		G05B01	G15B01	G15B51	G23B01	G24B01	G35B01
				•	•	G05B02		G15B52	G23B02	G24B02	G35B02
						G05B05		G15B59		G24B09	G35B09
	Cart	Pump	•	•							G35B03
			•	•	•		G15B04	G15B54			
						G05B03		G15B55		G24B05	G35B05
U-Cup	Wall	Pump		•		G05B09	G15B17	G15B67	G23B17	G24B17	G35B17
			•	•				G15B69			G35B19
						G05B11	G15B21	G15B71	G23B21		G35B21
	Cart	Pump		•							
			•	•				G15B73	G23B23		G35B23

Note: Graco recommends 20 cpm or less for intermittent pumping applications and 12 cpm or less for continuous pumping applications.

## Accessories

- 238926 Back Pressure Regulator
- 102397 Fluid Gauge  
3000 psi (206 bar, 20.6 MPa)
- 238890 Fluid Regulator
- 243340 Pail Cover with Agitator  
Use to agitate material in a 5 gal (18.9 l) pail
- 222121 Fluid Regulator, Stainless Steel  
Maximum working pressure: 1500 psi (103 bar, 10.3 MPa)
- Regulator range: 150-1200 psi (10-28 bar, 1-8.2 MPa)
- 24A587 Pump Outlet Fluid Filter, Stainless Steel  
60 mesh (250 micron), 5000 psi (350 bar, 25 MPa)
- 256425 Fluid Filter Drain Valve, Stainless Steel  
5000 psi (350 bar, 35 MPa)
- 224458 Replacement Filter Screen Element  
3-pack elements, 30 mesh, SST
- 224459 Replacement Filter Screen Element  
3-pack elements, 60 mesh, SST
- 24A540 Air Control Gauge Covers  
5 sheets of 10 covers
- 24B187 Second AA Gun Kit  
Includes air regulator and gauge
- 239850 Heater 120 (v)
- 239851 Heater 240 (v)
- 24E298 Overflow Chamber Kit

## 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

## Gun Hoses

- 256390 25 ft Air Hose
- 241812 25 ft Fluid Hose: 3300 psig (228 bar)
- 24A955 50 ft Bundled Air and Fluid Hose: 3300 psig (228 bar)
- 256389 50 ft Air Hose
- 24B562 50 ft Fluid Hose: 3300 psig (228 bar)
- 24A588 Hose Clips: Pack of 10

## Spray Guns

Refer to the spray gun brochure for additional model numbers. All guns include tip of choice.

- 26B500 PerformAA 15 Air Assist Spray Gun
- 26B510 PerformAA 50 Air Assist Spray Gun
- XTR521 XTR-5 Airless Spray Gun
- H85M10 Pro Xp Air Assist Smart Electrostatic Spray Gun

## 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

\*Use with materials that cause chemical compatibility concerns with UHMWPE, such as acid catalyst materials



# Glutton Bellows Ordering Information and Accessories

## Accessories

- 206221 Glutton Wall Bracket
- 102969 Loctite® High Strength Sealant  
To secure piston shafts to the piston stud.
- 223319 Return Tube Kit for returning circulated fluid back to a 55 gal drum  
Includes SST return tube, SST bushing and SST elbow
- 208259 55 Gallon (200 Liter) Suction Kit  
Suction hose (3/4 in ID x 6 ft (1.8 m)), 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 (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
- 17W667 Air Valve Conversion Kit, Standard
- 17W668 Air Valve Conversion Kit, Data Trak

## Replacement Parts

- 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



	Construction		Seal	Pump Ratio			Output per Cycle			Max Working Pressure	Max Air Inlet	Output @ 60 CPM	Pump Inlet Size	Pump Outlet Size	Basic or Advanced							
Part Number	CS	Stainless Steel	UHMWPE	Nylon	4:1	12:1	25:1	58cc	128cc	355cc	400 psi (28 bar)	1200 psi (83 bar)	2500 psi (170	100 psi (7 bar)	0.9 gpm (3.4 lpm)	2 gpm (7.5 lpm)	5.6 gpm (21.2	1.25" npt(f)	3/4 npt(f)	1" npt(f)	Basic	Advanced
220663	•		•		•					•	•			•			•		•	•		
220664	•		•			•			•			•		•		•		•		•	•	
220665	•		•				•	•					•	•				•		•	•	
220666		•	•		•					•	•			•			•			•	•	
220667		•	•			•			•			•		•		•			•	•	•	
220668		•	•				•	•					•	•		•			•		•	
237008	•			•	•						•			•			•			•	•	
237009	•			•		•						•		•		•				•	•	
237011		•		•	•					•	•			•			•			•	•	
237012		•		•		•			•			•		•		•				•	•	
237013		•		•			•	•					•	•		•			•		•	
17W012		•	•		•					•	•			•			•			•		•
17W013		•	•			•			•			•		•		•				•	•	
17W014		•	•				•	•					•	•				•				•

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.

Call today for product information or to request a demonstration.

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