Electric Diaphragm Pumps

1" and 2" Electric Operated Double Diaphragm Pumps for industrial, food, beverages and cosmetic applications

Not just an electric double diaphragm pump, it's much more!

- The only electric diaphragm pump on the market that will stall under pressure
- Up to 80% more efficient than air-operated diaphragm pumps
- Reduce pulsation without the addition of pulsation dampeners
- Reduce maintenance costs!
Electric Double Diaphragm Pumps

Graco’s electric operated double diaphragm pumps are designed for industrial, food, beverage and cosmetics applications.

Why would you go for a GRACO electric operated double diaphragm pump?

- Can handle a wide variety of fluids thanks to many material options
- Can handle abrasive and corrosive materials
- Gentle on shear sensitive materials
- Can run dry
- Can stall under pressure -> closing a valve or clogging a line doesn’t create issues
- Self priming (no need to fill the pump to operate)
- No rotating or moving fluid seals
- Compared to an Air-Operated Double Diaphragm pump
  - Energy savings using an electric drive can save you up to 80% of energy costs versus an air-operated pump
  - Less noise due to the use of an electric motor
  - Low pulsation mode, so you don’t need to purchase a pulsation dampener
  - Same lifetime on diaphragms as an air-operated pump

Using Graco’s electric diaphragm pump can lower your maintenance cost compared to using other technologies.

We can offer the advantages of an air-operated double diaphragm pump in an electric pump

<table>
<thead>
<tr>
<th>Feature</th>
<th>Graco Electric Diaphragm Pumps</th>
<th>Other Electric Diaphragm Pumps</th>
<th>Air-Operated Diaphragm Pumps</th>
<th>Progressive Cavity Pumps</th>
<th>Rotary Lobe Pumps</th>
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<tbody>
<tr>
<td>Stalls under pressure</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Runs dry</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td></td>
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<tr>
<td>Self priming</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>No rotational shaft seal</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Low pulsation operation mode</td>
<td>✓</td>
<td></td>
<td>✓</td>
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<td>✓</td>
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</table>

Stalls = avoid damage due to pressure overload (like a closed valve)
Runs dry = no damage when no fluid is pumped
Self priming = no need to fill pump manually
No rotational shaft seal = eliminate leaks and reduce maintenance costs
Low pulsation = avoid buying a pulsation dampener

2 Inch Models
1 Inch Models
To deliver the features you need, we use a Patent pending air charged drive

The pump is driven by a motor that moves a centre block sideways. By filling the centre block with air, the diaphragms are pushed out using this air. Mechanically, the centre block moves from left to right which means the air is pushing the diaphragms. We don’t mechanically push the diaphragms.

We do **NOT** consume air, we only use air to charge the centre.

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**Durable Pump Technology**
- Handles slurries and abrasives all without damage to the pump
- Gentle on shear sensitive material

**Diaphragm Pump**
- Runs dry
- No rotating or moving fluid seals
- Self priming

**Electric Drive**
- Reduce energy consumption and operating costs
- Increase pump control
- Accurately meter fluid

**Fluid Section**
- Create the pump you need with multiple material offerings for manifolds, seats, balls, and diaphragms

**Patent Pending Air Charged Drive**
- Increase diaphragm life without compromising your fluid - no hydraulic charge, so no risk of contamination
- Ability to reduce pulsation on fluid outlet
- Stalls under pressure without additional switches and controls

**Motor Options**
- Operate on 120V (only 1”), 240V or 480V power
- Available in AC, DC (only 1”) and AC ATEX
- 1”: one gearbox
- 2”: 3 gearbox options: 130, 215 & 330 lpm

**Diaphragm Pump**
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- No rotating or moving fluid seals
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**Economy**
- Durable Pump Technology
- Gentle on shear sensitive material
- No rotating or moving fluid seals
- Self priming

**Patent Pending Air Charged Drive**
- Extend diaphragm life without compromising your fluid - no hydraulic charge, so no risk of contamination
- Ability to reduce pulsation on fluid outlet
- Stalls under pressure without additional switches and controls

**Motor Options**
- Operate on 120V (only 1”), 240V or 480V power
- Available in AC, DC (only 1”) and AC ATEX
- 1”: one gearbox
- 2”: 3 gearbox options: 130, 215 & 330 lpm

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**Need low pulsation? No Problem!**

Another effect of our air charged drive is we can work in a “low-pulsation” mode eliminating the need for pulsation dampeners -> ideal when products are shear-sensitive, can foam, or require a smooth flow. In addition, our diaphragms are supported by air, so there is no hydraulic backing and therefore no risk of contamination.

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**How much can you save?**

Enter your parameters into the Husky Electric Pump ROI Calculator to compare your costs with a traditional air-operated diaphragm pump.

To calculate your ROI, go to the online product pages to find the link to our calculator.
Graco’s electric operated double diaphragm pumps are designed for industrial, food, beverage and cosmetics applications.

INDUSTRIAL APPLICATIONS
- 1” or 2” flanged or threaded fluid connections
- AC, DC (1” only) and AC ATEX motors
- Available without motor (1” includes gearbox, 2” = pump only)
- Centre section: Aluminium or Stainless Steel
- Up to 537 lpm

FOOD & BEVERAGE, COSMETICS AND PHARMACEUTICAL MARKETS
- 1” or 2” sized fluid connection in DIN or Tri-clamp
- Certifications: FDA, ATEX & CE1935/2004
- Tri-clamps for easy dismantling and cleaning
- AC, DC (1” only) and AC ATEX motors
- Available without motor (1” includes gearbox, 2” = pump only)
- Centre section: Aluminium or Stainless Steel
- Up to 537 lpm

FDA Approved Fluid Section
- Manifolds, seats, balls, & diaphragms all FDA compliant material

Diaphragm Pump
- Runs dry
- Self priming
- No rotating seals
- Stalls under pressure for dispensing or filling applications

Electric Drive
- Reduce energy consumption and operating costs
- Increase pump control
- Accurately meter fluid

Motor Options
- Operate on 120V (only 1”), 240V or 480V power
- Available in AC, DC (only 1”) and AC ATEX
- 1”: one gearbox
- 2”: 3 gearbox options: 130, 215 & 330 lpm

Durable Pump Technology
- Handles particulates and abrasives all without damage to the pump
- Gentle on shear sensitive material

Tri-Clamp Connections
- Quick knock down design for easy cleaning and service
Where can you use electric operated double diaphragm pumps?

In **INDUSTRY** you can use our pumps to:

- Transfer Water (waste water with or without solids)
- Transfer oils, chemical products
- Emergency spills (1”)
- Tank loading
- ....

In **FOOD, BEVERAGE & COSMETICS** you can use our pumps to:

- Transfer low viscous fluids like edible oils, juices, concentrates, wines, spirits ...
- ....

**APPLICATION EXAMPLES** are:

- Transfer of ceramic slip into a small casting in the manufacture of toilets
- Transfer of ceramic slip into a large casting in the manufacture of bath tubs
- Transfer of lime slurry in a water treatment facility
  - Replacing two hose pumps
- Supply of paint to a roll coating applicator in a tile factory
  - Replacing an air-operated pump to reduce cost & pulsation
- Filling a tank with chemical liquids for odor control
  - Replacing an AODD to remove a compressor due to issues of space
- Filling a dosing station in paint manufacturing
  - Replacing a gear pump that was pulling air in the product when the filling tank was nearly empty. Also low pulsation improves the quality of the paint
- Injection of chemicals into a tank to separate polymeres from oil
  - Replacing a progressive cavity pump in order to reduce maintenance costs as a result of running dry issues

**How to find the right pump for your application?**

Define the flow rate & pressure required

Use our online selector tool to find the right pump:

- Select the size
- Select the materials (use the chemical compatibility tool)
- Select the components (balls, seats, diaphragms)

**Find the Right Pump for your Application**

Graco is making it easy to select a pump that’s right for you.

To order an electric pump, go to the online product pages to find the link to our pump selector.
## Technical Specifications

### Industrial Pumps

<table>
<thead>
<tr>
<th>Specification</th>
<th>1050e</th>
<th>2150e</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum fluid working pressure</td>
<td>4.8 bar (0.48 MPa / 70 psi)</td>
<td>6.9 bar (0.69 MPa / 100 psi)</td>
</tr>
<tr>
<td>Air pressure operating range</td>
<td>1.4 to 5.5 bar (0.14 to 0.55 MPa / 20 - 80 psi)</td>
<td>1.4 to 6.9 bar (0.14 to 0.69 MPa / 20-100 psi)</td>
</tr>
<tr>
<td>Air inlet size</td>
<td>3/8 in npt(f)</td>
<td>3/8 in npt(f)</td>
</tr>
<tr>
<td>Maximum suction lift*</td>
<td>Wet: 8.8 m (29 ft); Dry: 4.9 m (16 ft)</td>
<td>Wet or Dry: 5.5 m (18 ft)</td>
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<tr>
<td>Maximum size pumpable solids</td>
<td>3.2 mm (1/8 in)</td>
<td>6.3 mm (1/4 in)</td>
</tr>
<tr>
<td>Ambient air temperature range for operation and storage**</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>0°C to 40°C (32°F to 104°F)</td>
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<tr>
<td>Fluid displacement per cycle</td>
<td>0.64 L (0.15 gallons)</td>
<td>2.27 L (0.6 gallons)</td>
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<tr>
<td>Maximum free-flow delivery</td>
<td>158 lpm (42 gpm)</td>
<td>537 lpm (142 gpm)</td>
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<tr>
<td>Gearbox</td>
<td>one gearbox</td>
<td>3 gearbox options: 130, 215 &amp; 330 lpm</td>
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<tr>
<td>Fluid inlet and outlet size</td>
<td>Metal: 1 in npt(f) or 1 in bspt, Plastic: 1 in ANSI/DIN Raised Face Flange</td>
<td>Metal: 2 in npt(f) or 2 in bspt, Plastic: 2 in ANSI/DIN Raised Face Flange</td>
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<td>BLDC motor power</td>
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*Reduced, if balls do not seat well due to the balls or seats being damaged, or due to lightweight balls or to extreme cycling speed

**Exposure to extremely low temperatures may result in damage to plastic parts

### FDA Approved Pumps

<table>
<thead>
<tr>
<th>Specification</th>
<th>1040e</th>
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<tbody>
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<td>Maximum fluid working pressure</td>
<td>4.8 bar (0.48 MPa / 70 psi)</td>
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</tr>
<tr>
<td>Ambient air temperature range for operation and storage**</td>
<td>0°C to 40°C (32°F to 104°F)</td>
<td>0°C to 40°C (32°F to 104°F)</td>
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<tr>
<td>Fluid displacement per cycle</td>
<td>0.38 L (0.10 gallons)</td>
<td>2.27 L (0.6 gallons)</td>
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<tr>
<td>Gearbox</td>
<td>one gearbox</td>
<td>3 gearbox options: 130, 215 &amp; 330 lpm</td>
</tr>
<tr>
<td>Maximum free-flow delivery</td>
<td>158 lpm (42 gpm)</td>
<td>537 lpm (142 gpm)</td>
</tr>
<tr>
<td>Fluid inlet and outlet size</td>
<td>Aluminium and stainless steel: 1.5 in sanitary flange or 40 mm DIN 11851</td>
<td>2.5 in sanitary flange or 65 mm DIN 11851</td>
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<tr>
<td>AC motor power</td>
<td>2 HP</td>
<td>3, 5, 7.5 HP</td>
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<tr>
<td>BLDC motor power</td>
<td>2.2 HP</td>
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<td>Operation manual</td>
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<td>3A5132</td>
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</table>

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***Only some models have ATEX certification
### Husky 1050e - Industrial

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Centre Section</th>
<th>Fluid Section</th>
<th>Porting</th>
<th>Seat</th>
<th>Ball ID</th>
<th>Diaphragm ID</th>
<th>Connection</th>
<th>Motor</th>
<th>Compressor*</th>
<th>Gearbox*</th>
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*Low = 130 lpm  Medium = 215 lpm  High = 330 lpm

### SaniForce 2150e - FDA Approved

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<th>Part Number</th>
<th>Centre Section</th>
<th>Fluid Section</th>
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<th>Ball ID</th>
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</table>

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### Husky 2150e - Industrial

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<th>Part Number</th>
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*Low = 130 lpm  Medium = 215 lpm  High = 330 lpm

### SaniForce 2150e - FDA Approved

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*Low = 130 lpm  Medium = 215 lpm  High = 330 lpm
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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Graco is certified ISO 9001.