



Electric Diaphragm Pumps

Electric Operated Double Diaphragm Pump



- 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

www.graco.com/e-series

PROVEN QUALITY. LEADING TECHNOLOGY.

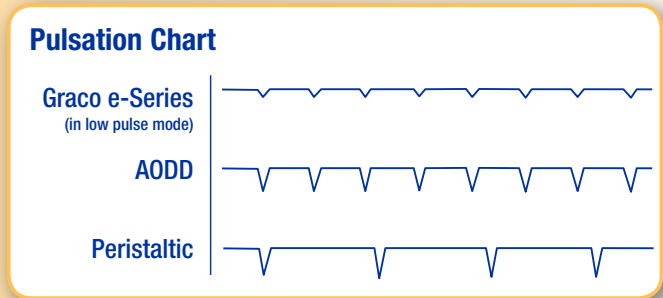
Electric Double Diaphragm Pumps

Would you like to eliminate unnecessary pump failures for your application? Would you like to improve your facilities energy efficiency and create a quieter and cleaner work environment for your employees? Graco's Husky e-Series pumps will help you achieve all of those items!

- ✓ Patent pending technology allows pump to **stall under pressure** preventing pump failures from clogged lines or closed valves
- ✓ **Energy efficient** electric drive reduces energy consumption up to 80% compared to traditional air operated diaphragm pumps
- ✓ Seal-less diaphragm pump design **eliminates leaking** and failures due to run-dry pump conditions
- ✓ **Request a demo** and see interactive information at www.graco.com/e-series

Need Low Pulsation? No Problem!

Our Husky e-Series pumps are ideal for applications that require low pulsation and a smooth flow. The air charged electric drive allows for the elimination or reduction of pulsation **WITHOUT** expensive pulsation dampeners or surge tanks.



Pick the pump that works for you!

We've listened to what you want out of a pump and designed the Graco e-Series to meet your needs!

| Feature | Graco Electric Diaphragm Pumps | Other Electric Diaphragm Pumps | Air-Operated Diaphragm Pumps | Peristaltic Pumps | Progressive Cavity Pumps | Rotary Lobe Pumps |
|---------------------------------|--------------------------------|--------------------------------|------------------------------|-------------------|--------------------------|-------------------|
| Stalls under pressure | X | | X | | | |
| Runs dry | X | X | X | X | | |
| Self priming | X | X | X | X | X | |
| Metering capabilities | X | X | | X | X | |
| Energy efficient electric drive | X | X | | X | X | X |
| No rotational shaft seal | X | X | X | X | | |
| Low pulsation operation mode | X | | | | X | X |



2 Inch Models

1 Inch Models

Durable Pump Technology

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

Diaphragm Pump

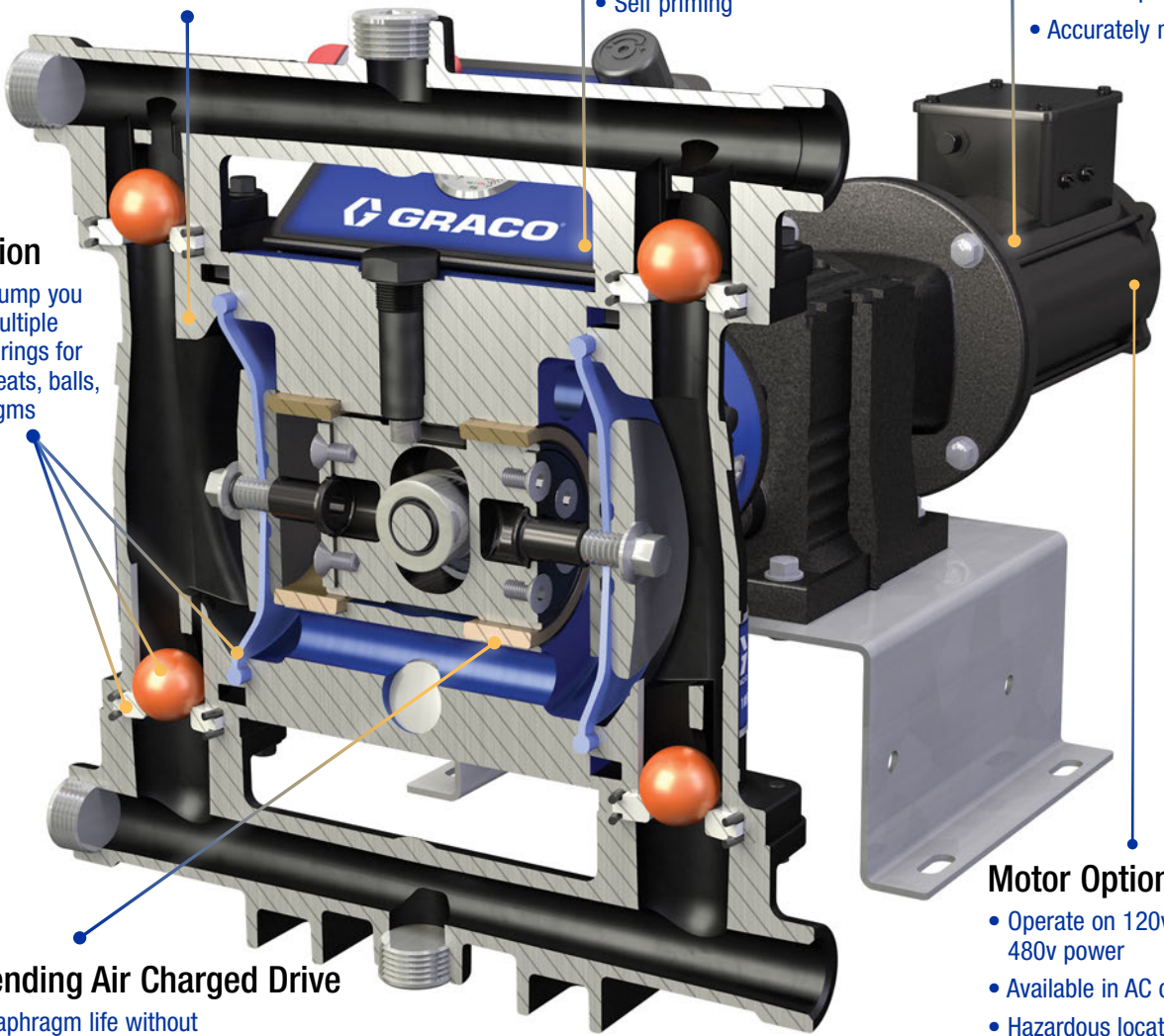
- Runs dry
- No rotating or moving fluid seals
- Self priming

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
- Ability to minimize pulsation on fluid outlet
- Stalls under pressure without additional switches and controls

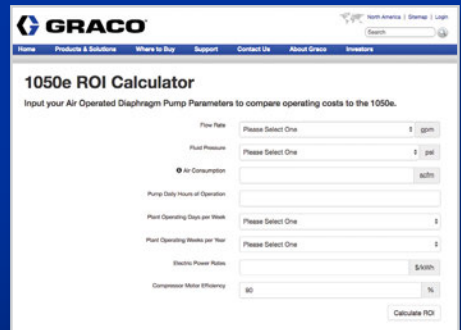
Motor Options

- Operate on 120v, 240v or 480v power
- Available in AC or Brushless DC
- Hazardous location motor options available

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 www.graco.com/ElectricROI to use the ROI calculator.



Example of ROI Tool

Electric Double Diaphragm Pumps

Are you ready to take your food manufacturing process to the next level? Graco's SaniForce e-series pumps save on energy and extra equipment while hygienically moving fluids over 100 gpm (378 lpm) and 1/4" (6.3 mm) particulates! The low pulsation mode is gentle on shear sensitive materials to maintain the integrity of your highest quality ingredients.

- ✓ All **FDA compliant** fluid sections and tri-clamp connections for accelerated cleaning and minimal down time
- ✓ Ability to **stall under pressure** for dispensing or filling applications without need for a circulation line
- ✓ **Gentle pumping** for shear sensitive materials
- ✓ **Durable pump construction** handles particulates and abrasives in material without damage to pump
- ✓ **Worry free pump design** without rotateable seal prevents leaking and need for flushing

Edible Oils



Juices, Concentrates, and Beverages



Condiments and Dressings



Wineries, Breweries, and Distilleries



Personal Care



Pharmaceuticals



2 Inch Models



1 Inch Models



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*

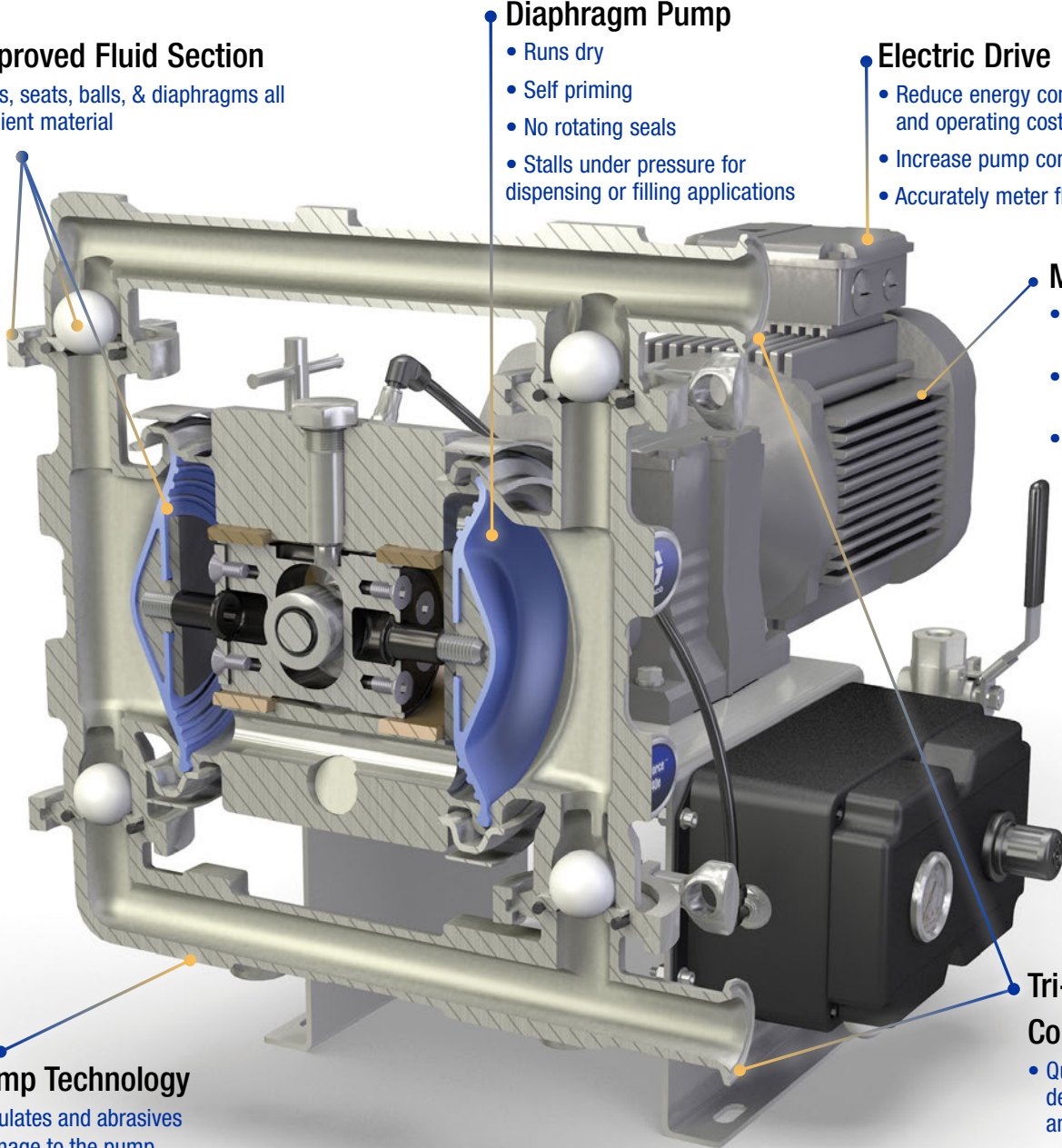
- Operate on 120v, 240v or 480v power
- Available in AC or Brushless DC
- Hazardous location motor options available

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



*Motor options vary based on pump size and configuration.

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 www.graco.com/pumpselectors to use the selector tool or contact your distributor.



Example of Product Selector Tool



Technical Specifications

Industrial Pumps

| |  1050e |  2150e |
|---|--|---|
| Maximum fluid working pressure | 70 psi (4.8 bar, 0.48 MPa) | 100 psi (0.69 MPa, 6.9 bar) |
| Air pressure operating range | 20 - 80 psi (1.4 to 5.5 bar, 0.14 to 0.55 MPa) | 20-100 psi (0.14 to 0.69 MPa, 1.4 to 6.9 bar) |
| Air inlet size | 3/8 in npt(f) | 3/8 in npt(f) |
| Maximum suction lift* | Wet: 29 ft (8.8 m); Dry: 16 ft (4.9 m) | Wet or Dry: 18 ft (5.5 m) |
| Maximum size pumpable solids | 1/8 in (3.2 mm) | 1/4 in (6.3 mm) |
| Ambient air temperature range for operation and storage** | 32°F to 104°F (0°C to 40°C) | 32°F to 104°F (0°C to 40°C) |
| Fluid displacement per cycle | 0.15 gallons (0.64 L) | 0.6 gallons (2.27 L) |
| Maximum free-flow delivery | 42 gpm (158 lpm) | 142 gpm (537 lpm) |
| Fluid inlet and outlet size | | |
| Metal | 1 in npt(f) or 1 in bspt | 2 in npt (f) or 2 in bspt |
| Plastic | 1 in ANSI/DIN Raised Face Flange | 2 in ANSI/DIN Raised Face Flange |
| AC motor power | 2 HP | 3, 5, 7.5 HP |
| BLDC motor power | 2.2 HP | N/A |
| Operation manual | 334188 | 3A4068 |

*Reduced if balls don't seat well due to damaged balls or seats, lightweight balls, or extreme speed of cycling
 **Exposure to extreme low temperatures may result in damage to plastic parts

FDA Approved Pumps

| |  1040e |  2150e |
|---|--|---|
| Maximum fluid working pressure | 70 psi (4.8 bar, 0.48 MPa) | 100 psi (0.69 MPa, 6.9 bar) |
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| Maximum size pumpable solids | 1/8 in (3.2 mm) | 1/4 in (6.3 mm) |
| Ambient air temperature range for operation and storage** | 32°F to 104°F (0°C to 40°C) | 32°F to 104°F (0°C to 40°C) |
| Fluid displacement per cycle | 0.10 gallons (0.38 L) | 0.6 gallons (2.27 L) |
| Maximum free-flow delivery | 42 gpm (158 lpm) | 142 gpm (537 lpm) |
| Fluid inlet and outlet size | | |
| Aluminum and stainless steel | 1.5 in sanitary flange or 40 mm DIN 11851 | 2.5 in sanitary flange or 65 mm DIN 11851 |
| AC motor power | 2 HP | 3, 5, 7.5 HP |
| BLDC motor power | 2.2 HP | N/A |
| Operation manual | 3A3167 | 3A5132 |

*Reduced if balls don't seat well due to damaged balls or seats, lightweight balls, or extreme speed of cycling
 **Exposure to extreme low temperatures may result in damage to plastic parts

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.
877.84GRACO (1-877-844-7226) or visit us at www.graco.com.

