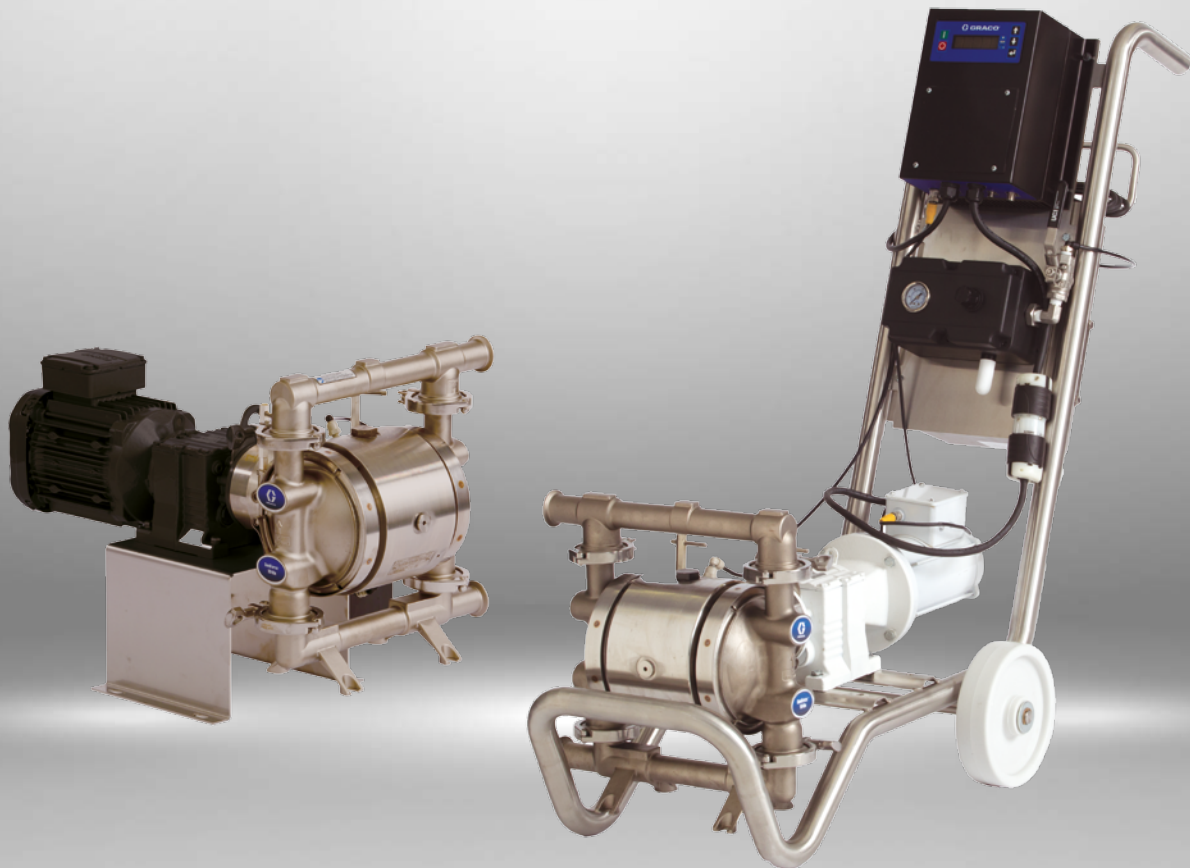


# Saniforce™ e-Series

1" Electric Operated Double Diaphragm Pump  
for Food & Cosmetic Products

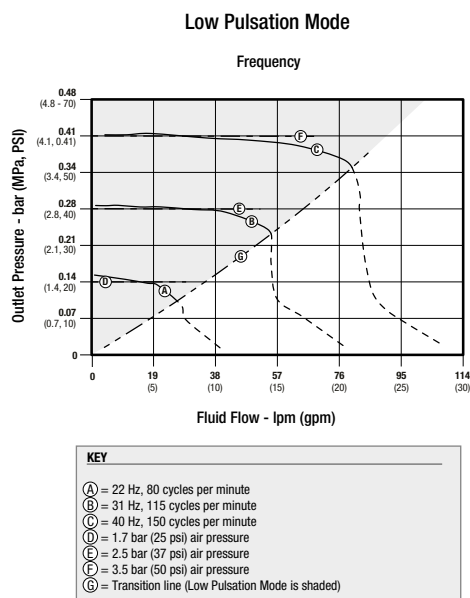
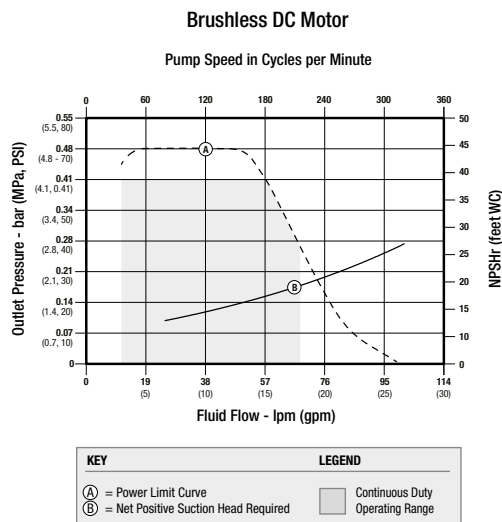
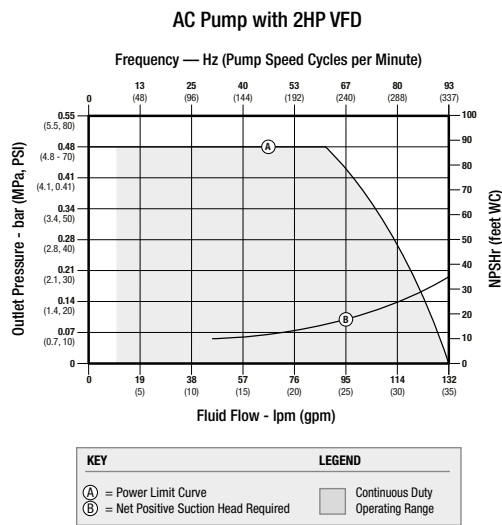


Do you want an easy, trouble free pump? We built the advantages of an air-operated double diaphragm pump into an electric one and more ...

- Self priming – can run dry
- Up to 5x more efficient than air operated diaphragm pumps
- Patent pending technology allows pump to stall under pressure
- Reduce pulsation without the addition of pulsation dampeners

# The Latest in Energy Efficient Pumps

## Performance



Graco's Saniforce E-series is a unique pump that gives you the advantages of an air operated pump with the energy efficiency of an electric drive. Our energy efficient electric drive reduces energy consumption up to 5x compared to traditional air operated diaphragm pumps.

- ✓ Running dry is not an issue for our pump
- ✓ Our patent pending technology allows the pump to stall under pressure preventing pump failures from clogged lines or closed valves
- ✓ Seal-less design eliminates leaking!
- ✓ Self priming

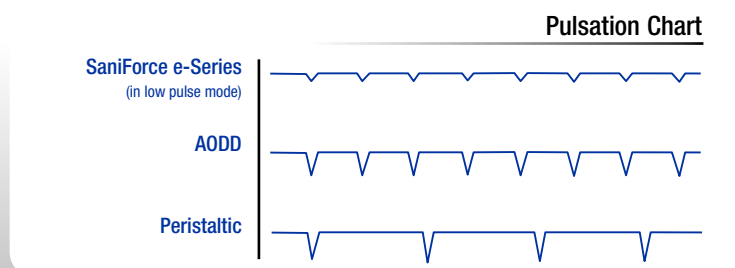
The brushless DC model with GRACO control architecture (of control & software), offers a batching mode that allows you to control the volume that is pumped.

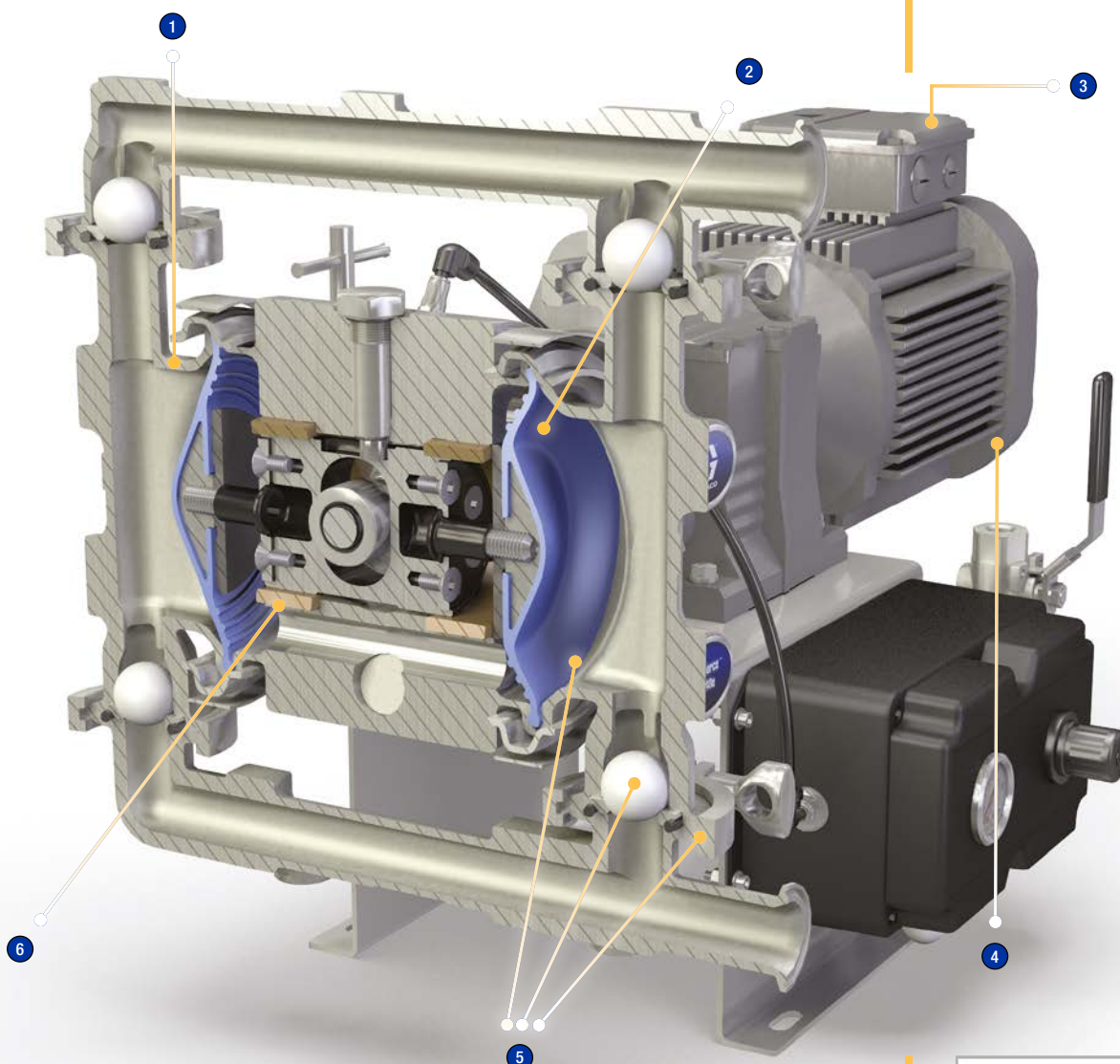
## Compare our SaniForce-E to other pump technologies.

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

## 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 drive allows the elimination or reduction of pulsation **WITHOUT** expensive pulsation dampeners or surge tanks.





### 1 Durable Pump Technology

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

### 2 Diaphragm Pump

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

### 3 Electric Drive

- Reduce energy consumption and operating costs
- Batching mode available (brushless DC)
- Accurately meter fluid

### 4 Motor Options

- Operate on 120v, 240v or 460v power
- Available in AC, AC ATEX and Brushless DC

### 5 Fluid Section

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

### 6 Patent Pending Air Charged Drive

- As the diaphragms are supported by the air charge, we can offer a high diaphragm life delivering 4,8 bar of pressure
- Ability to reduce pulsation on fluid outlet
- Stalls under pressure without additional switches and controls

<http://www.graco.com/us/en/products/ad/sanitary-selector.html>

► **Find the Right Pump for your Application**

Graco makes it easy to select a pump that's right for you.

# SaniForce™ e-Series

## 1" Electric Operated Double Diaphragm Pump

### Technical Specifications

Maximum fluid working pressure .....	4.8 bar (0.48 Mpa / 70 psi)
Air pressure operating range .....	1.4 to 5.5 bar (0.14 to 0.55 Mpa / 20 to 80 psi)
Air inlet size .....	3/8 in npt(f)
Maximum suction lift* .....	Wet: 8.8 m (29 ft); Dry: 4.9 m (16 ft)
Maximum size pumpable solids .....	3.2 mm (1/8 in)
Ambient air temperature range for operation and storage** .....	0°C to 40°C (32°F to 104°F)
Fluid displacement per cycle .....	0.38 L (0.1 gallons)
Maximum free-flow delivery .....	106 lpm (28 gpm)
Maximum pump speed .....	280 cpm
Fluid Inlet and outlet Size	
Stainless steel .....	1.5 in sanitary flange or DIN
AC motor power .....	2 HP
BLDC motor power .....	2.2 HP
Operation manual .....	3A3167
Repair manual .....	3A3168

\*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

### Popular Models

#### SaniForce 1040e

Part Number Triclamp	Part Number DIN	Motor*	Center Section	O-Rings	Seats	Balls	Diaphragm
24Y595	24Y600	Standard 2 HP AC	Stainless Steel	EPDM	SS	CW	SP
24Y596	24Y601	Standard 2 HP AC	Stainless Steel	PTFE	SS	PT	PO
24Y597	24Y602	Standard 2 HP AC	Stainless Steel	PTFE	SS	PT	PT
24Y598	24Y603	Standard 2 HP AC	Stainless Steel	PTFE	SS	SP	SP
24Y599	24Y604	Standard 2 HP AC	Stainless Steel	EPDM	SS	SP	SP
24Y606	24Y611	Brushless DC	Stainless Steel	PTFE	SS	PT	PO
24Y608	24Y614	Brushless DC	Stainless Steel	PTFE	SS	SP	SP

See manual 3A3167 for a full list of pumps available.

### Applications



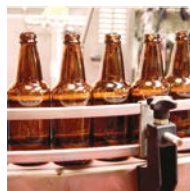
Edible Oils



Juices, Concentrates,  
and Beverages



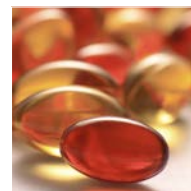
Condiments and  
Dressings



Wineries, Breweries,  
and Distilleries



Personal Care



Pharmaceuticals

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.

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