



# Husky™ e-Series

Electric Operated Double Diaphragm Pump

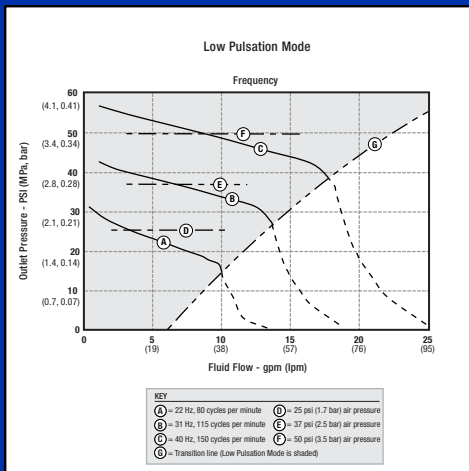
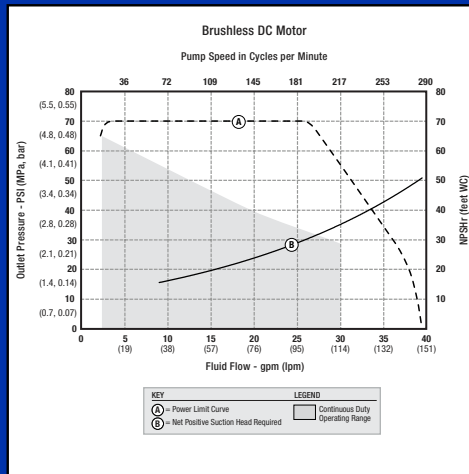
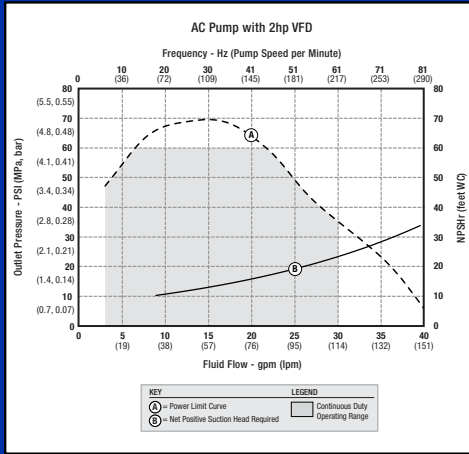


- Only electric diaphragm pump on the market that will stall under pressure
- Up to 5x more efficient than air operated diaphragm pumps
- Reduce pulsation without the addition of pulsation dampeners

PROVEN QUALITY. LEADING TECHNOLOGY.

# THE LATEST IN ENERGY EFFICIENT PUMPS

## Performance



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 pump 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 5x compared to traditional air operated diaphragm pumps
- ✓ Seal-less diaphragm pump design **eliminates leaking** and failures due to run-dry pump conditions

## Pick the pump that works for you

We've listened to what you want out of a pump and designed the Husky 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

## Need Low Pulsation? No Problem!

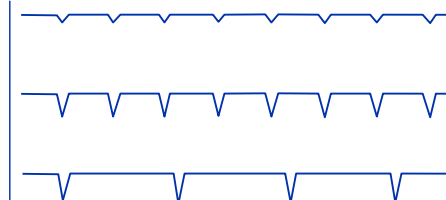
Our Husky e-Series pumps are ideal for applications that require low pulsation and a smooth flow. The air charged drive allows for the elimination or reduction of pulsation **WITHOUT** expensive pulsation dampness or surge tanks.

### Pulsation Chart

Husky e-Series  
(in low pulse mode)

AODD

Peristaltic





### 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
- Increase pump control
- Accurately meter fluid

### 4 Motor Options

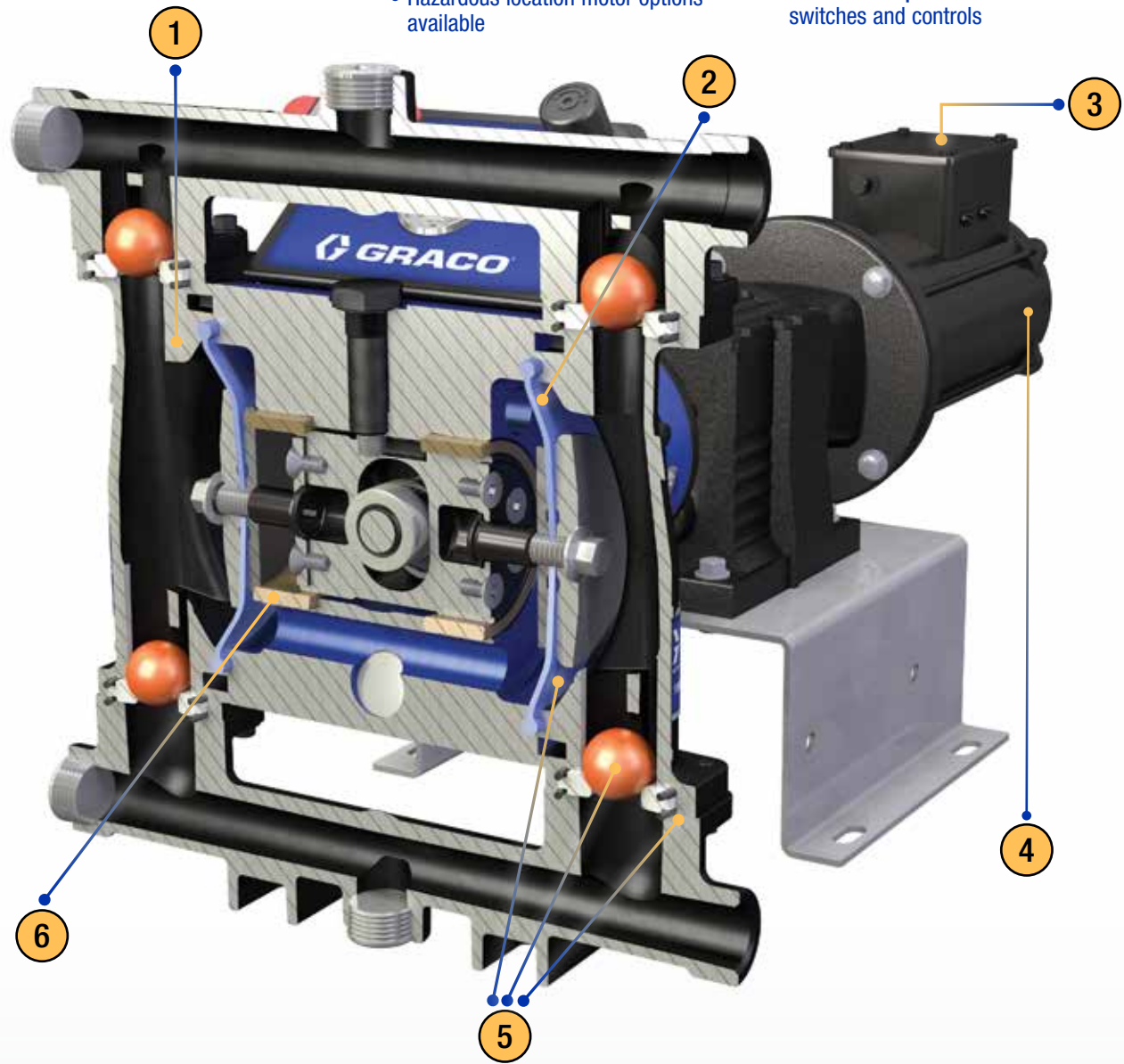
- Operate on 120v, 240v or 480v power
- Available in AC or Brushless DC
- Hazardous location motor options available

### 5 Fluid Section

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

### 6 Patent Pending Air Charged Drive

- Increase diaphragm life without compromising your fluid
- Ability to reduce pulsation on fluid outlet
- Stalls under pressure without additional switches and controls



## Find the Right Pump for your Application

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

To order a Husky pump, go to [www.graco.com/husky](http://www.graco.com/husky) to use the selector tool or contact your distributor.



# Technical Specifications

Maximum fluid working pressure .....	70 psi (4.8 bar, 0.48 Mpa)
Air pressure operating range .....	20 to 80 psi (1.4 to 5.5 bar, 0.14 to 0.55 MPa)
Air inlet size .....	3/8 in npt(f)
Maximum suction lift* .....	Wet: 29 ft (8.8 m); Dry: 16 ft (4.9 m)
Maximum size pumpable solids .....	1/8 in (3.2 mm)
Ambient air temperature range for operation and storage** .....	32°F to 104°F (0°C to 40°C)
Fluid displacement per cycle .....	0.17 gallons (0.64 L)
Maximum free-flow delivery .....	42 gpm (158 lpm)
Maximum pump speed .....	280 cpm
Fluid Inlet and outlet Size	
Aluminum and stainless steel .....	1 in npt(f) or 1 in bspt
Polypropylene .....	1 in ANSI/DIN Raised Face Flange
AC motor power .....	2 HP
BLDC motor power .....	2.2 HP
Operation manual .....	344188

\*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

### Husky 1050e Popular Models

Part Number	Center Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor*	Compressor**
648150	Aluminum	Aluminum	NPT	Hytrel	Acetal	Hytrel	Standard 2 HP AC	Yes (110V)
648153	Aluminum	Aluminum	NPT	Santoprene	Santoprene	Santoprene	Standard 2 HP AC	Yes (110V)
648190	Aluminum	Aluminum	NPT	Stainless Steel	Weighted Neoprene	Neoprene Overmolded	Brushless DC	Yes (110V)
648182	Aluminum	Aluminum	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (110V)
648187	Aluminum	Aluminum	NPT	Buna	Buna	Buna	Brushless DC	Yes (110V)
650079	Aluminum	Polypropylene	Center Flange	Santoprene	Santoprene	Santoprene	Standard 2 HP AC	Yes (110V)
650099	Aluminum	Polypropylene	Center Flange	Polypropylene	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (110V)
650102	Aluminum	Polypropylene	Center Flange	Polypropylene	PTFE	PTFE Overmolded	Brushless DC	Yes (110V)
650264	Stainless Steel	Polypropylene	Center Flange	Polypropylene	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (110V)
651890	Aluminum	Stainless Steel	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Standard 2 HP AC	Yes (110V)
653054	Stainless Steel	Stainless Steel	NPT	Stainless Steel	PTFE	PTFE Overmolded	Standard 2 HP AC	Yes (110V)
651908	Aluminum	Stainless Steel	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (110V)

\*Brushless DC includes Graco Controller  
 \*\*Options available without compressor

### Husky 1050e Hazardous Location Pumps

Part Number	Center Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor	Compressor
648093	Aluminum	Aluminum	NPT	Santoprene	Santoprene	Santoprene	2 HP North American Class 1, Div 1	No
648062	Aluminum	Aluminum	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	2 HP ATEX Motor	No
651836	Aluminum	Stainless Steel	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	2 HP ATEX Motor	No
651854	Aluminum	Stainless Steel	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	2 HP North American Class 1, Div 1	No

### Husky 1050e Cart Mounted Systems

Part Number	Center Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor*	Compressor
24Y338	Aluminum	Aluminum	NPT	Stainless Steel	Weighted Neoprene	Neoprene Overmolded	Brushless DC	Yes (110V)
24Y553	Aluminum	Aluminum	NPT	Santoprene	Santoprene	Santoprene	Brushless DC	Yes (110V)
24Y555	Aluminum	Aluminum	NPT	Hytrel	Acetal	Hytrel	Brushless DC	Yes (110V)
24Y557	Aluminum	Aluminum	NPT	Buna	Buna	Buna	Brushless DC	Yes (110V)
24Y559	Aluminum	Polypropylene	End Flange	Polypropylene	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (110V)
24Y561	Aluminum	Stainless Steel	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (110V)

\*Brushless DC includes Graco Controller

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](http://www.graco.com).

