



Husky™ 1050e-Series

1" Electric Operated Double Diaphragm Pump



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

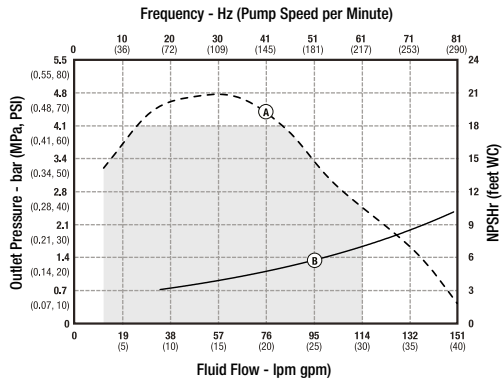
- The only electric diaphragm pump on the market that will stall under pressure
- Up to 5x more efficient than air operated diaphragm pumps
- Reduce pulsation without the addition of pulsation dampeners
- Self priming – can run dry

PROVEN QUALITY. LEADING TECHNOLOGY.

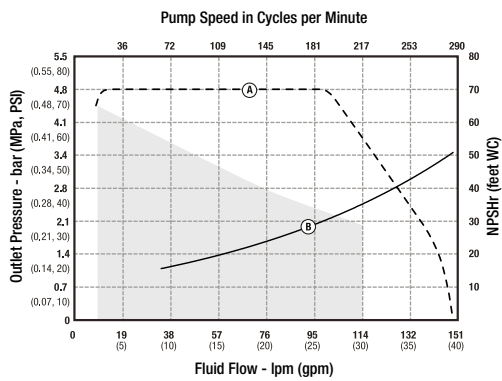
High Efficient Pump for many Applications

Performance

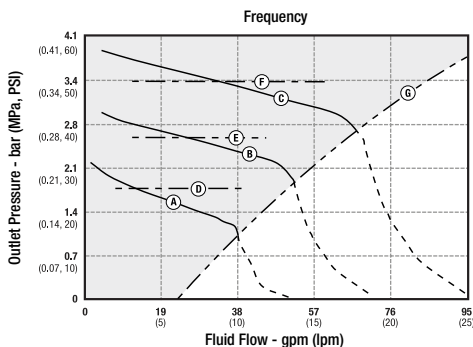
AC Pump with 2HP VFD



Brushless DC Motor



Low Pulsation Mode



Would you like to eliminate unnecessary pump failures for your application?
 Would you like to improve your facilities energy efficiency and create a quieter work environment for your employee?

Graco's Husky e-Series pump will help you achieve all of these!

- 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** rotational seals and failures due to run-dry pump conditions

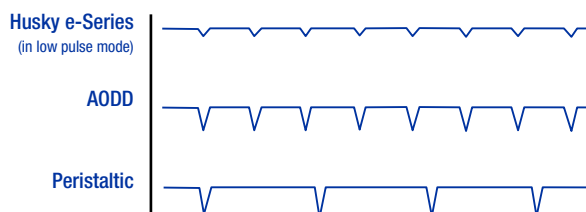
Compare our Husky 1050e to other pump technologies.

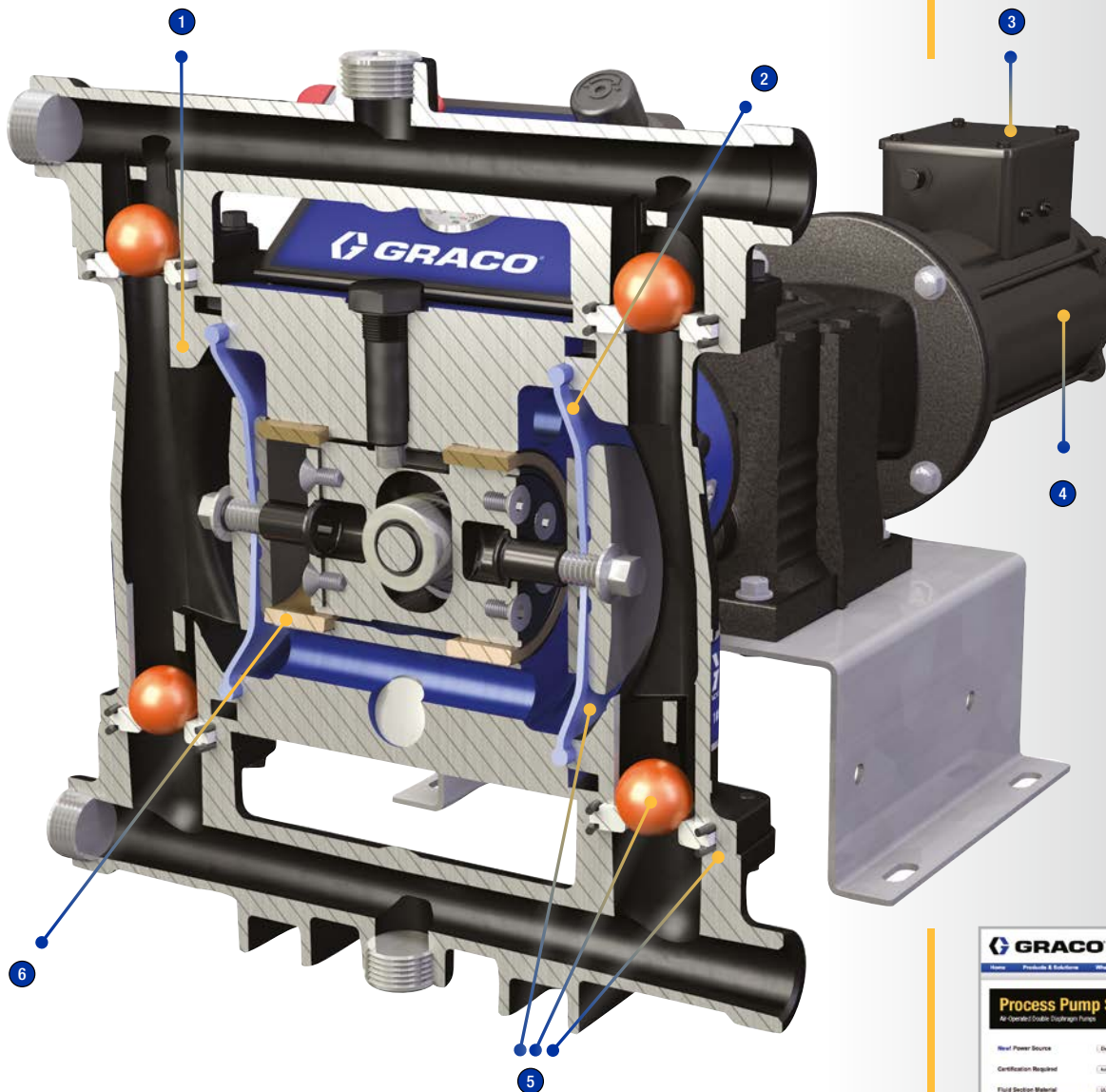
Feature	Graco Electric Diaphragm Pumps	Other Electric Diaphragm Pumps	Air-Operated Diaphragm Pumps	Peristaltic Pumps	Progressive Cavity Pumps	Rotary Lobe Pumps
Stalls under pressure	X		X			
Runs dry	X	X	X	X		
Self priming	X	X	X	X	X	
Metering capabilities	X	X		X	X	
Energy efficient electric drive	X	X		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 the elimination or reduction of pulsation **WITHOUT** expensive pulsation dampeners or surge tanks.

Pulsation Chart





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, 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

- 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

Find the Right Pump for your Application

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

To order a Husky pump, go to www.graco.com/husky to use the selector tool or contact your local distributor.

Husky™ 1050e-Series

1" Electric Operated Double Diaphragm Pump

Model Range

Motor		
AC	AC ATEX	DC Brushless
Center Section		
Aluminium	Stainless Steel	
Fluid Section		
Aluminium	Poly-propylene	Stainless Steel
Compressor		
Option		
Cart		
Option		

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	1/2 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	0.64 L (0.17 gallons)
Maximum free-flow delivery	158 lpm (42 gpm)
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
Repair manual	344189

*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

Part Number	Center Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor*	Compressor**
648225	Aluminium	Aluminium	BSP	Hytrel	Acetal	Hytrel	Standard 2 HP AC	Yes (230V)
648228	Aluminium	Aluminium	BSP	Santoprene	Santoprene	Santoprene	Standard 2 HP AC	Yes (230V)
648265	Aluminium	Aluminium	BSP	Stainless Steel	Weighted Neoprene	Neoprene Overmolded	Brushless DC*	Yes (230V)
648227	Aluminium	Aluminium	BSP	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Standard 2 HP AC	Yes (230V)
648262	Aluminium	Aluminium	NPT	Buna	Buna	Buna	Brushless DC	Yes (230V)
650123	Aluminium	Polypropylene	Center Flange	Santoprene	Santoprene	Santoprene	Standard 2 HP AC	Yes (230V)
650121	Aluminium	Polypropylene	Center Flange	Polypropylene	PTFE	2-Piece PTFE w/ Santoprene Backer	Standard 2 HP AC	Yes (230V)
650146	Aluminium	Polypropylene	Center Flange	Polypropylene	PTFE	PTFE Overmolded	Brushless DC	Yes (230V)
650308	Stainless Steel	Polypropylene	Center Flange	Polypropylene	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (230V)
651935	Aluminium	Stainless Steel	BSP	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Standard 2 HP AC	Yes (230V)
653090	Stainless Steel	Stainless Steel	NPT	Stainless Steel	PTFE	PTFE Overmolded	Standard 2 HP AC	Yes (230V)
651953	Aluminium	Stainless Steel	BSP	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (230V)

*Brushless DC includes Graco Controller

**Options available without compressor

Husky 1050e ATEX Pumps

Part Number	Center Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor	Compressor
648077	Aluminium	Aluminium	BSP	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	2 HP ATEX Motor	No
651845	Aluminium	Stainless Steel	BSP	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	2 HP ATEX Motor	No

Husky 1050e Cart Mounted Systems

Part Number	Center Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor*	Compressor
24Y554	Aluminium	Aluminium	NPT	Santoprene	Santoprene	Santoprene	Brushless DC	Yes (230V)
24Y556	Aluminium	Aluminium	NPT	Hytrel	Acetal	Hytrel	Brushless DC	Yes (230V)
24Y558	Aluminium	Aluminium	NPT	Buna	Buna	Buna	Brushless DC	Yes (230V)
24Y560	Aluminium	Polypropylene	End Flange	Polypropylene	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (230V)
24Y562	Aluminium	Stainless Steel	NPT	Stainless Steel	PTFE	2-Piece PTFE w/ Santoprene Backer	Brushless DC	Yes (230V)

*Brushless DC includes Graco motor control and compressor.

Accessories

Part Number	Center Section
16K911	Variable Frequency Drive (VFD)
24Y543	Cart
651845	Aluminium

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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