



HUSKY 1050E-SERIES 1" (DN25) ELECTRIC OPERATED DOUBLE DIAPHRAGM PUMP

Item code: 1050E

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

FEATURES:

- Eliminate unnecessary pump failures for your application.
- Improve your facilities energy efficiency and create a quieter work environment for your employee.
- 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.
- 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.

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.



TECHNICAL SPECIFICATIONS:

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 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:

Code	Centre Section	Fluid Section	Porting	Seat	Ball	Diaphragm	Motor*	Compressor**
648225	Aluminium	Aluminium	BSP	Hytrek	Acetal	Hytrek	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)

ATEX PUMPS:

Code	Centre 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



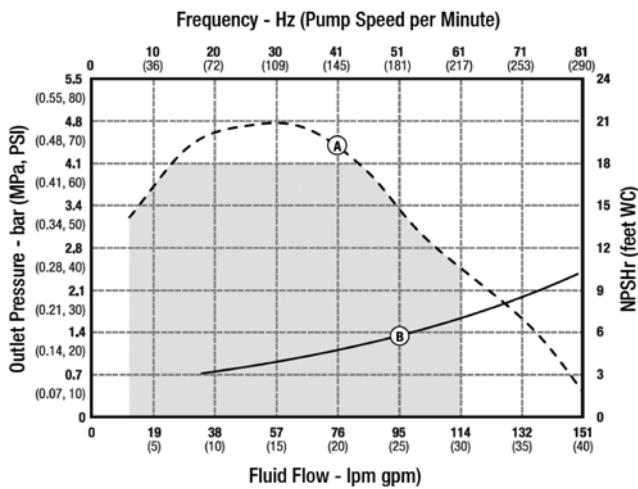
CART MOUNTED SYSTEMS:

Code	Centre 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)

ACCESSORIES:

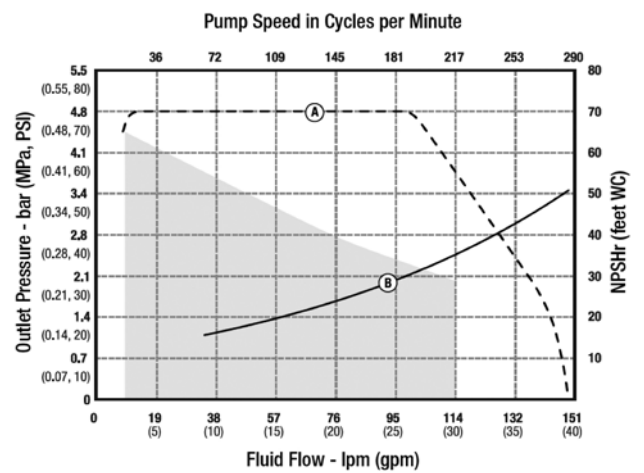
Code	Centre Section
16K911	Variable Frequency Drive (VFD)
24Y543	Cart
651845	Aluminium

AC Pump with 2HP VFD



KEY	LEGEND
(A) = Power Limit Curve	Continuous Duty Operating Range
(B) = Net Positive Suction Head Required	

Brushless DC Motor



KEY	LEGEND
(A) = Power Limit Curve	Continuous Duty Operating Range
(B) = Net Positive Suction Head Required	



COMPARISON 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