



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 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 | 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) |

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 |



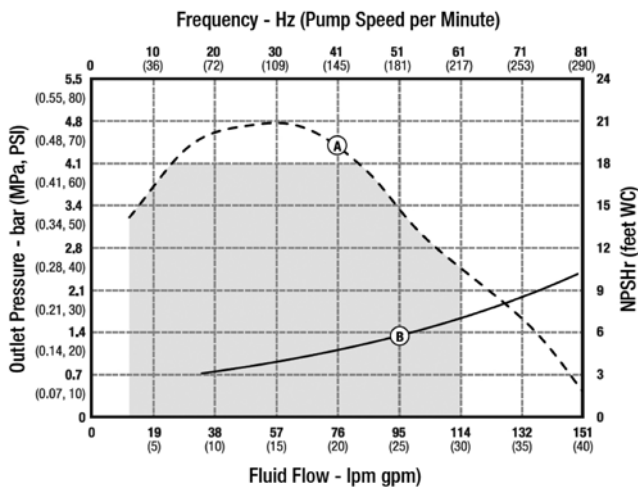
CART MOUNTED SYSTEMS:

| 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:

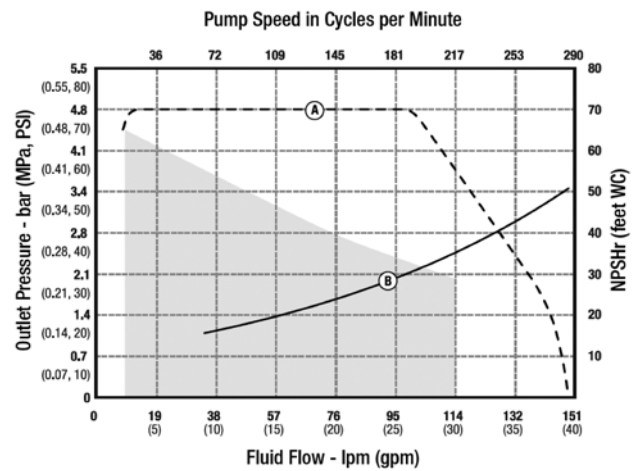
| Code | Centre Section |
|--------|--------------------------------|
| 16K911 | Variable Frequency Drive (VFD) |
| 24Y543 | Cart |
| 651845 | Aluminium |

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 |

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