

Process Equipment

Pumping Solutions for Process Industries



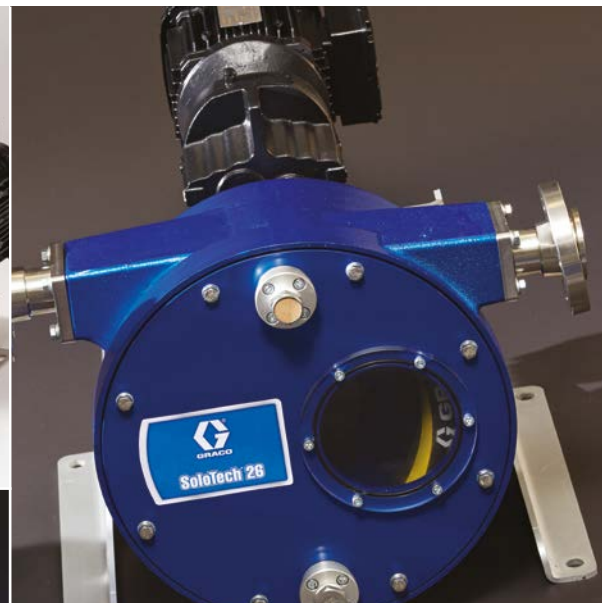
NEW - Now CE1935/2004 models available

PROVEN QUALITY. LEADING TECHNOLOGY.

Which System is Right for You?

Pumping Solutions for Process Industries

Downtime is frustrating and costly. At Graco, we provide durable pumping solutions for your applications. Every pump is manufactured with your productivity in mind – providing you with a more reliable and efficient pump. Each pump is thoroughly tested before it leaves our factories.



Process Equipment Overview

Electric-Operated Double Diaphragm Pumps

Husky™ 1050e

Diaphragm pumps

Air-Operated Double Diaphragm Pumps

ChemSafe™

Chemical pumps

Husky™

Transferring a wide range of fluids

The Husky advantage
Loaded with options

Hose Pumps

SoloTech™

Peristaltic hose pumps

High Pressure Cleaning

Hydra-Clean™

Transfer Pumps

Husky transfer pumps

Fast-Flo™ 1:1

Ink pumps

GRACO Process Selector Tools

Graco pump selectors are designed to make pump selection very easy.

Once you have selected a pump, the tool will provide you with ample information:

- the configuration
- major spare parts part numbers
- accessories

The pump selectors are available for the following products on each product page on the Graco website (www.graco.com).

A) Husky air- or electric-operated double diaphragm pumps

The screenshot shows the GRACO website's 'Process Pump Selector' tool for 'Air-Operated Double Diaphragm Pumps'. The form includes dropdown menus for 'Hose Power Source' (Electric), 'Certification Required' (No Certification), 'Pump Section Material' (Aluminum), 'Pump Inlet/Outlet Size' (1050e - 1 inch, 40 gpm (15min, 131 lpm)), 'Center Section' (ACME Aluminum Center Housing, 2 HP Brushless DC Motor w/ Graco Controller), 'Porting' (AT Aluminum Standard Porting (NPT)), and 'Seals' (BR Buna). A 'Part Number reverse look-up' section is also present. A 'More Info' button and the Graco Part Number 940002 are displayed at the bottom right.

B) Hose pump selector tool:

The screenshot shows the GRACO website's 'Process Pump Selector' tool for 'Hose Pumps'. The form includes dropdown menus for 'Certification Required' (Please Select One), 'Pump Size' (Please Select One), 'Pump Speed' (Please Select One), 'Motor Selection' (Please Select One), 'Hose Material' (Please Select One), and 'Bolt Material' (Please Select One). A 'Part Number reverse look-up' section is also present. A 'Clear Selection' button is located at the bottom right.

C) Piston pump selector tool:

The screenshot shows the GRACO website's 'Process Pump Selector' tool for 'Piston Pumps'. The form includes dropdown menus for 'Power' (Please Select One), 'Max Fluid Pressure (psi)' (Please Select One), 'Flow Rate' (Please Select One), 'Drum Length' (Please Select One), 'Tube Material' (Please Select One), 'Packings' (Please Select One), and 'Automatic' (Please Select One). A 'Part Number reverse look-up' section is also present. A 'Go' button is located at the bottom right.

Electric-Operated Double Diaphragm Pumps

Husky™ 1050e Diaphragm Pumps

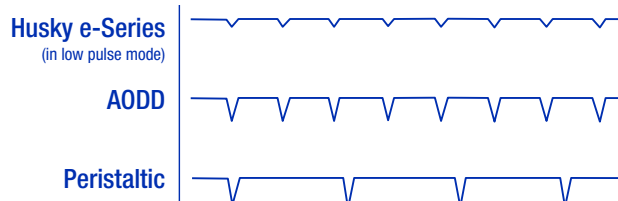
Eliminate unnecessary pump failures, improve your facilities' energy efficiency and create a quieter and cleaner working environment for your employees. Graco's Husky e-Series pump will help you achieve all of this! We combined the advantages of an air-operated double diaphragm pump with an energy-efficient electric drive.

- 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
- No-seal diaphragm pump design **eliminates leaking** and failures due to run-dry pump conditions
- Reduce pulsation without the need for a pulsation dampener
- Self-priming, sealless design, handles abrasives and can run dry!

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** the need for expensive pulsation dampness or surge tanks.

Pulsation Chart



Husky 1050e Cart Mount

1 in (25.4 mm) connection
Max flow: 189 lpm (50 gpm)



Husky 1050e Aluminum

1 in (25.4 mm) connection
Max flow: 189 lpm (50 gpm)



Husky 1050e Polypropylene

1 in (25.4 mm) connection
Max flow: 189 lpm (50 gpm)



Husky 1050e Stainless Steel

1 in (25.4 mm) connection
Max flow: 189 lpm (50 gpm)

Air-Operated Double Diaphragm Pumps

ChemSafe™ Chemical Pumps

Our ChemSafe pumps are available with 100% PTFE or UHMWPE corrosion- and abrasion-resistant fluid paths, making them ideal for even the most challenging fluids. They also have no exposed metals and can be configured with various materials to meet the majority of abrasion, temperature and chemical compatibility requirements.

Leak-free design

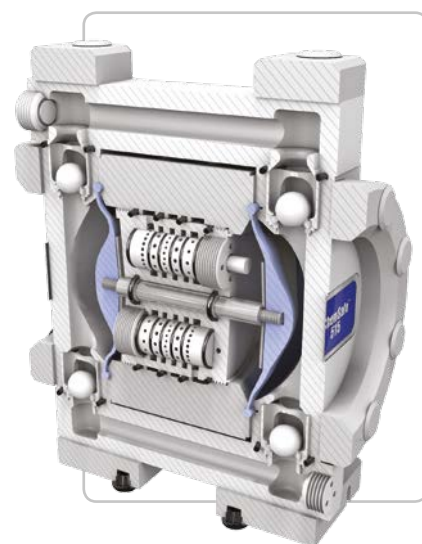
- Dual force, tie-bolt design ensures chemical containment
- Precision fit, CNC-machined design

Corrosion-resistance

- 100% PTFE and UHMWPE fluid paths
- No exposed metals

Parallel pilot shifting

- Easy to maintain
- Stall-free design
- Reduced icing air system



ChemSafe Models: 515, 1040, 1590



ChemSafe Models: 205, 307



ChemSafe 1590
1-1/2 in (38.1 mm)
376 lpm (99.5 gpm)



ChemSafe 1040
1 in (25.4 mm)
146 lpm (38.8 gpm)



ChemSafe 515
1/2 in (12.7 mm)
60.6 lpm (16 gpm)



ChemSafe 307
3/8 in (9.4 mm)
25 lpm (6.7 gpm)



ChemSafe 205
1/4 in (6.3 mm)
14 lpm (3.7 gpm)

Air-Operated Double Diaphragm Pumps

Husky™ Transferring a Wide Range of Fluids

Our Husky air-operated double diaphragm pumps are loaded with features to help you get the job done right, every time, and are built to save you money.

Rugged construction

Resists corrosion for reliable performance and long life

Heavy-duty design - Offers long life, increased productivity and lower overall cost of ownership

Flow rates up to 1135 lpm (300 gpm)

Lube-free for cleaner operation

DataTrak™ available to prevent pump runaway and track material usage

Very easy & quick to repair!

Husky 3300

3 in (76.2 mm) connection
Max flow: 1135 lpm (300 gpm)
Polypropylene, aluminium,
stainless steel



Husky 2200

2 in (50.8 mm) connection
Max flow: 757 lpm (200 gpm)
Polypropylene, PVDF



Husky 2150

2 in (50.8 mm) connection
Max flow: 568 lpm (150 gpm)
Polypropylene, PVDF, aluminium,
stainless steel, iron



Husky 15120

1-1/2 in (38.1 mm) connection
Max flow: 454 lpm (120 gpm)
Polypropylene, PVDF



Husky 1590

1-1/2 in (38.1 mm) connection
Max flow: 340 lpm (90 gpm)
Polypropylene, PVDF, aluminium,
stainless steel



Husky 1050

1 in (25.4 mm) connection
Max flow: 189 lpm (50 gpm)
Aluminium, polypropylene, PVDF,
conductive polypropylene,
hastelloy, stainless steel

Air-Operated Double Diaphragm Pumps

The Husky Advantage

Loaded with Options

Choose from a wide selection of materials to handle numerous applications, including corrosive and abrasive fluid transfer.

Key fluids

- Paints, stains, coatings, inks and dyes
- Chemicals
- Acids
- Corrosive and abrasive fluids
- Lubricants
- Ceramic glazes
- Sludge, slurry and waste fluid
- Soaps, detergents and solvents
- General and advanced mining applications

Balls



Seats



Diaphragms



Husky 1050HP

1 in (25.4 mm) connection
Max flow: 189 lpm (50 gpm)
Aluminium and stainless steel



Husky 716

3/4 in (19.1 mm) connection
Max flow: 61 lpm (16 gpm)
Aluminium, stainless steel



Husky 515

1/2 in (12.7 mm) connection
Max flow: 57 lpm (15 gpm)
Polypropylene, acetal, PVDF



Husky 307

3/8 in (9.4 mm) connection
Max flow: 26 lpm (7 gpm)
Polypropylene, acetal



Husky 205

1/4 in (6.3 mm) connection
Max flow: 19 lpm (5 gpm)
Polypropylene, acetal, PVDF

Hose Pumps

SoloTech™

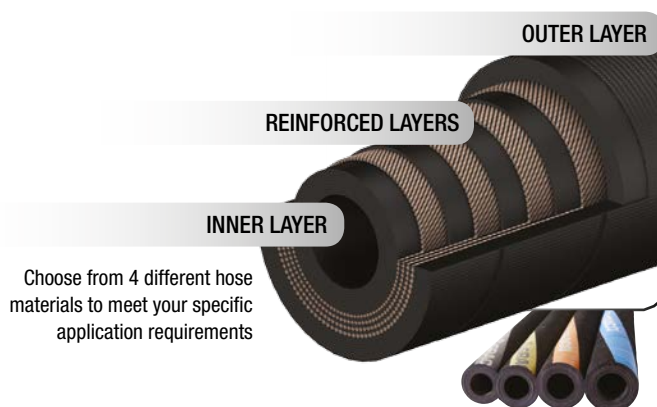
Peristaltic Hose Pumps

With only the hose in contact with the fluid being pumped and no check valves in the line, Graco's SoloTech peristaltic pumps are ideal for materials that other pumps cannot handle. Abrasive, corrosive, shear-sensitive, and gas-entrapped fluids can easily be pumped or administered to your application.

- **Efficient pumping action** - One hose compression per revolution extends hose life
- **Low maintenance** - No valves, seals or glands
- **Reversible** - Pumps can be used to empty lines or clear blockages
- **Extended hose life** - Only one hose compression per revolution

Our BLDC motor/gearbox can handle a very large flow rate range, avoiding the need for different gearboxes for multiple applications.

Hose Design



Hose Materials	Stripe Colour / Inside Colour	Max. Fluid Temperature	Application Area
Natural Rubber (NR)	None / Black	71°C (160°F)	Abrasives
Chlorosulfonated polyethylene (CSM)	Orange / Black	121°C (250°F)	Highly corrosive chemicals
Nitrile	Yellow / Black	104°C (220°F)	Oils or oily products
Ethylene propylene (EPDM)	Blue / Black	121°C (250°F)	Corrosive chemicals



SoloTech 10

Max flow rate of 1.5 lpm (0.67 gpm). Typically used for chemical metering applications.



SoloTech 23

Max flow rate of 17 lpm (4.5 gpm). Typically used for chemical metering applications.



SoloTech 26

Max flow rate of 37.1 lpm (9.8 gpm). Typically used for abrasive material transfer applications.



SoloTech 30

Max flow rate of 59.8 lpm (15.8 gpm). Typically used for abrasive material transfer applications

High-Pressure Cleaning

Hydra-Clean™ High-Pressure Cleaning

Graco pneumatic-driven and hydraulic-driven Hydra-Clean heavy-duty pressure washers are perfect for use in a variety of in-plant cleaning applications and can be used with hot or cold water, detergents or strong chemical solutions up to 93°C (200°F). Available in wall-mount and cart-mount options.

- ATEX certified
- 300 Series stainless steel lower – Compatible with many extreme chemicals and ideal for use with open-head drums
- Supports multiple guns
- Five different spray tips – Standard
- Optional hose reel – Easy hose storage



Pneumatic Hydra-Clean



Hydraulic Hydra-Clean

Transfer Pumps

Husky Transfer Pumps

Easily pump from a 205-litre drum with flow rates up to 61 lpm (16 gpm). Available in aluminium, carbon steel, stainless steel and polypropylene.

- **Suction tube** immersed inside the drum
- **Quick-priming** and immediate product flow
- **Fluid viscosities up to 5,000 cps** and solids up to 2.5 mm (0.094 in)
- Air-tight **seal** for moisture-sensitive fluids
- **Bung adapter** fits into any 2 in (50.8 mm) bung opening



Fast-Flo™ 1:1

Deliver a smooth, reliable flow. Drum length and stubby models are available in either carbon steel or stainless steel materials of construction. Ideal for a variety of non-corrosive and corrosive materials.

- **Flow rates** up to 15.1 lpm (4 gpm)
- **Immersed inlet** for faster priming of heavier fluids
- **Air-powered** for high reliability and low cost
- **Disc check** options for lower viscosity fluids



Ink Pumps

Pneumatic and hydraulic ink pumps with enclosed, dual-seal wet cup design with an extended seal life - ideal for the most difficult inks.

- **Prolong seal life** with enclosed, dual-seal wet cup
- **Runaway control** with optional DataTrak™
- **MaxLife™** seal for longer life
- **Handles difficult inks**, like letterpress and lithographic



Notes



ABOUT GRACO

Founded in 1926, Graco is a world leader in fluid handling systems and components. Graco products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, commercial and industrial settings.

The company's success is based on its unwavering commitment to technical excellence, world-class manufacturing and unparalleled customer service. Working closely with qualified distributors, Graco offers systems, products and technology that set the quality standard in a wide range of fluid handling solutions. Graco provides equipment for spray finishing, protective coating, paint circulation, lubrication, and dispensing sealants and adhesives, along with power application equipment for the contractor industry. Graco's ongoing investment in fluid management and control will continue to provide innovative solutions to a diverse global market.

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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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