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.
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-operated double diaphragm pumps:

B) Husky electric-operated double diaphragm pumps:

C) Piston pump selector tool:

D) Hose pump selector tool:
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
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

Available construction materials and accessories may vary depending on pump model.
Graco’s electric operated double diaphragm pumps are designed for industrial, food, beverage and cosmetics applications.

Why would you go for a GRACO electric operated double diaphragm pump?

- Can handle a wide variety of fluids thanks to many material options
- Can handle abrasive and corrosive materials
- Gentle on shear sensitive materials
- Can run dry
- Can stall under pressure -> closing a valve or clogging a line doesn’t create issues
- Self priming (no need to fill the pump to operate)
- No rotating or moving fluid seals
- Compared to an Air-Operated Double Diaphragm pump
  - Energy savings using an electric drive can save you up to 80% of energy costs versus an air-operated pump
  - Less noise due to the use of an electric motor
  - Low pulsation mode, so you don’t need to purchase a pulsation dampener
  - Same lifetime on diaphragms as an air-operated pump

Using Graco’s electric diaphragm pump can lower your maintenance cost compared to using other technologies.

We can offer the advantages of an air-operated double diaphragm pump in an electric pump

<table>
<thead>
<tr>
<th>Feature</th>
<th>Graco Electric Diaphragm Pumps</th>
<th>Other Electric Diaphragm Pumps</th>
<th>Air-Operated Diaphragm Pumps</th>
<th>Progressive Cavity Pumps</th>
<th>Rotary Lobe Pumps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stalls under pressure</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Runs dry</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Self priming</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>No rotational shaft seal</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Low pulsation operation mode</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Stalls = avoid damage due to pressure overload (like a closed valve)
Runs dry = no damage when no fluid is pumped
Self priming = no need to fill pump manually
No rotational shaft seal = eliminate leaks and reduce maintenance costs
Low pulsation = avoid buying a pulsation dampener
Graco’s Unique Design Explained

To deliver the features you need, we use a Patent pending air charged drive

The pump is driven by a motor that moves a centre block sideways. By filling the centre block with air, the diaphragms are pushed out using this air. Mechanically, the centre block moves from left to right which means the air is pushing the diaphragms. We don’t mechanically push the diaphragms.

We do **NOT** consume air, we only use air to charge the centre.

Need low pulsation? No Problem!

Another effect of our air charged drive is we can work in a “low-pulsation” mode eliminating the need for pulsation dampeners -> ideal when products are shear-sensitive, can foam, or require a smooth flow. In addition, our diaphragms are supported by air, so there is no hydraulic backing and therefore no risk of contamination.

How much can you save?

Enter your parameters into the Husky Electric Pump ROI Calculator to compare your costs with a traditional air-operated diaphragm pump.

To calculate your ROI, go to the online product pages to find the link to our calculator.
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 515
1/2 in (12.7 mm)
60.6 lpm (16 gpm)

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

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

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

Choose from 4 different hose materials to meet your specific application requirements.
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
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
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.

GRACO LOCATIONS

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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.