Unique Characteristics

- Superior flow rates and efficiency
- Air-operated pumps (non electrical)
- Self priming
- Run-dry capable
- Anti-freezing technology
- Deadhead without damage
- Variable flow and pressure
- Intrinsically safe
- Lube-free operation
- On/Off reliability
- Large solids passage
- Ease of operation and maintenance

Applications

- Solvents
- Acids
- Caustics
- High viscosity
- High pressure
- Large solids
- Abrasive media
- Hazardous and flammable liquids
- Cleanroom fluids

Wilden®: The Power Behind Fluid Transfer

Since 1955, Wilden® Pump and Engineering LLC has been the global leader in air-operated double-diaphragm (AODD) pumps. Wilden is deeply committed to the pursuit of excellence, customer satisfaction, research and development, and market knowledge. As a premier organization, Wilden has the infrastructure, knowledge base and intellectual capital to exceed your expectations worldwide.

The Wilden world-class distributor network ensures that you have access to the latest pump technologies and fluid transfer services available. Wilden and its distributor network are devoted to your industries, applications and processes, servicing your needs with industry-leading products, delivery and best-of-class expertise. Put us to the test and contact your local distributor today at: wildendistributor.com
Installation Versatility

Self Priming
- Portable
- High vacuum
- Run-dry capable
- No heat generation

Positive Suction Head
- Preferred installation for high-viscosity applications
- Flow-through capability
- Inlet pressure should be limited to 0.7 bar (10 psig) to maximize parts life

Submerged
- Air-operated pumps (non electrical)
- Single-point exhaust option required for submersible applications
- Multiple material options available for process fluid compatibility
ENERGY
Wilden pump solutions are leading the way in energy efficiency for storage terminals, biofuels and solar cell manufacturing. Wilden pumps play a vital role as transfer points from one mode of transportation to another and as safe, secure storage locations until product transfer is needed. Wilden is also committed to helping build a clean energy economy through the use of biofuels.

Typical Applications Handled:
- Raw crude oil
- Chemicals
- Caustics
- Ethanol
- Biodiesel
- Gases
- Crude oil
- Solvents
- Solar cell manufacturing
- Petroleum
- Lube oils
- Gasoline
- Diesel fuel
- Refined petroleum products

HYGIENIC
Wilden offers a wide range of hygienic and biopharmaceutical pumps for various food, beverage, dairy, personal care and pharmaceutical applications. When it comes to safety, performance and gentle transfer solutions, trust Wilden: the evolution of clean.

Typical Applications Handled:
- Personal care
- Confectionary
- Fruits and vegetables
- Poultry, fish and meat
- Filling/batching
- Dairy
- Pharmaceutical/biopharm
- Sauces, purees and beverages
- High purity product transfer
- Ingredient receiving/unloading

PROCESS
Wilden is a recognized leader in the process industries as you can find Wilden pumps in many of the top chemical, food and beverage, and pharmaceutical plants around the world.

Typical Applications Handled:
- Acids
- Solvents
- General chemicals
- Pulp and paper
- Low-solvent coating
- Caustics
- Soap and detergents
- Paints, inks and coatings
- Cosmetics
- Solventless coating
- Alcohols

WATER/WASTEWATER
Wilden plays a critical role in handling and transferring fluids used in municipal and industrial water and wastewater plants.

Typical Applications Handled:
- Wastewater systems
- Rehabilitation systems
- Distribution
- Water treatment supply
- Metal fabrication
- Potable water systems
- Collection and disposal

MARKETS SERVED
STATE OF THE ART

Air Distribution System

The innovative, yet simple, Pro-Flo® SHIFT Air Distribution System (ADS) is the new standard for AODD pumps, featuring an “air control spool” that automatically optimizes air consumption and eliminates the overfilling that can lead to overcharging of the air chamber, all while causing no corresponding reduction in flow rate. The results are a reduction in air consumption and operational costs while maximum operational efficiency and volumetric consistency are maintained.

Market Position:
- Cost efficient: 50% less expensive than an electronically-actuated ADS
- Faster return on investment
- Robust design for harsh operating conditions
- Metered air consumption for less product waste
- Creates the highest performance ratio
- Superior flow rate
- Superior anti-freezing
- Single-point exhaust option
- Lube-free operation
- Reduced maintenance costs
- On/Off reliability
- Environmental sensitivity

Features:
- Simple and durable pump design
- Simple components
- Faster, easier setup time
- Plug-N-Play operation
- No electricity needed
- Precise flow rate at start-up
- Non-stalling unbalanced spool
- Drop-in configuration capability
- Reduced energy consumption
- Lower carbon footprint
- ATEX-compatible for use in explosive atmospheres

Application Traits:
- Greater yield per SCFM of air used
- Wider application range
- Repeatable, predictable performance
- Less product waste
- Max. Mean Time Between Repair (MTBR)
- Increased application range/compatibility
- Minimum training required
- No special skill set needed for maintenance or operation

Availability:
- 13 mm (1/2”)
- 38 mm (1-1/2”)
- 51 mm (2”)
- 76 mm (3”)
- 102 mm (4”)


**Market Position:**
- Variable control (discharge flow rates and air consumption)
- Superior flow rate
- Superior anti-freezing
- Single-point exhaust option
- Lube-free operation
- On/Off reliability
- ATEX models available

**Features:**
- Efficiency Management System (EMS™)
- Metal and plastic material options
- Non-stalling unbalanced spool
- Simple and durable design

**Application Traits:**
- Maximize performance and efficiency
- Process applications
- Max. Mean Time Between Repair (MTBR)

**Availability:**
- 13 mm (1/2”)
- 25 mm (1”)
- 38 mm (1-1/2”)
- 51 mm (2”)
- 76 mm (3”)
- 102 mm (4”)

---

**Market Position:**
- Direct electrical interface
- Superior On/Off reliability
- Longest-lasting wear parts
- Lube-free operation

**Features:**
- Externally controlled
- Various voltage options
- Nema 4, Nema 7 or ATEX
- Simple installation

**Application Traits:**
- System automation
- 4-20 mA pH Adjusting
- Batching applications
- OEM accounts

**Availability:**
- 6 mm (1/4”), 13 mm (1/2”), 25 mm (1”), 38 mm (1-1/2”), 51 mm (2”)

---

**Market Position:**
- Anti-freezing
- On/Off reliability
- Longest-lasting wear parts
- Lube-free operation

**Features:**
- Plastic center block
- Non-stalling unbalanced spool
- Simple and durable design

**Application Traits:**
- Maximum reliability
- Process applications
- Max. Mean Time Between Repair (MTBR)

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---

**Market Position:**
- Low initial cost
- Largest installed base
- Proven technology
- Originated the AODD pump industry

**Features:**
- Metal air distribution system
- Durable
- Fewest replaceable parts
- Ease of maintenance

**Application Traits:**
- Utilitarian type applications
- Robust design
- Submersible
- Portable

**Availability:**
- 13 mm (1/2”), 25 mm (1”), 38 mm (1-1/2”), 51 mm (2”), 76 mm (3”), 102 mm (4”)

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Progressive Diaphragm Technology

Thermoplastic Elastomer (TPE)

- Thermoplastic elastomers (TPE) are known for their superior abrasion-resistance and durability. Due to their wide temperature range capabilities and superior flex life, Wilden TPE diaphragms are an excellent option for general purpose applications.

- Wilden TPE elastomer options available include: Polyurethane, Wil-Flex™ (Santoprene®), Saniflex™ (Hytrel®) and Geolast® (Nitrile Buna-N).

- Also, diaphragm versions of Wil-Flex and Saniflex are available that comply with FDA 21 CFR 177 standards.

Polytetrafluoroethylene (PTFE) Elastomers

- Because it is one of the most chemically inert compounds available, PTFE can be used with an extremely wide range of fluids, including highly aggressive fluids. Its properties provide excellent flex life and moderate abrasion resistance. In addition, PTFE complies with FDA 21 CFR 177 and USP Class VI standards for food, beverage and pharmaceutical applications. Because PTFE is non-elastic, a backup diaphragm of a different material must be used to provide flexibility and memory. Material options for backup diaphragms are Neoprene, Saniflex, EPDM and high-temperature Buna-N.
Elastomer Temperature Limits:

<table>
<thead>
<tr>
<th>Elastomer</th>
<th>Temperature Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neoprene</td>
<td>–18° to 93°C [0° to 200°F]</td>
</tr>
<tr>
<td>Buna-N</td>
<td>–12° to 82°C [10° to 180°F]</td>
</tr>
<tr>
<td>EPDM</td>
<td>–51° to 138°C [–60° to 280°F]</td>
</tr>
<tr>
<td>Viton</td>
<td>–40 to 177°C [–40 to 350°F]</td>
</tr>
<tr>
<td>Polyurethane</td>
<td>–12° to 66°C [10° to 150°F]</td>
</tr>
<tr>
<td>Wil-Flex</td>
<td>–40° to 107°C [–40° to 225°F]</td>
</tr>
<tr>
<td>Saniflex</td>
<td>–29° to 104°C [–20° to 220°F]</td>
</tr>
<tr>
<td>Geolast</td>
<td>–40° to 82°C [–40° to 180°F]</td>
</tr>
<tr>
<td>PTFE</td>
<td>4” to 104°C [40” to 220°F]</td>
</tr>
</tbody>
</table>

CAUTION: Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Please verify the chemical resistance limitations of elastomers and all other pump components prior to pump installation. The Wilden online Chemical Guide and a Wilden distributor should be consulted for specifics in elastomer selection.

Go to wildenchemicalguide.com for your Wilden Chemical Compatibility Guide.

Rubber Elastomers

- Wilden’s rubber elastomers are specifically engineered to increase chemical resistance, durability and allow for greater temperature spans, making this a general purpose diaphragm well-suited for a wide range of applications.
- Wilden material options available include: Neoprene, Buna-N, EPDM and Viton®.

Ultra-Flex™ Diaphragm Technology

- The diaphragm’s convolute shape and controlled fabric placement decreases tensile loading to minimize stress concentration. This design reduces internal stress resulting in extremely long diaphragm life.

Visit WildenDiaphragms.com for more information on Genuine Wilden Diaphragms and to download the Wilden Chemical Compatibility Guide.

Genuine WILDEN
Accept Nothing Less
WILDEN Drum Pump Kit

The inherent features of the Wilden air-operated pump and Accu-Flo pump technology allow it to excel as a utilitarian drum pump. Various speed and pressure capability, the ability to run dry, self-prime and dead-head offers you flexibility at a low cost. The Wilden universal drum pump kit enables Wilden 1/4” and 1/2” pumps to adapt directly to drums for cost-effective, efficient liquid transfer.

- Universal kit for 6 mm (1/4”) and 13 mm (1/2”) pumps
- Fits 51 mm (2”) NPT bungholes
- Tube length can be cut to length
- Variety of materials are available

WILDEN Wil-Gard™ III

The Wil-Gard™ detects diaphragm failure at the source: the primary diaphragm, not at the air chamber or the air exhaust as other systems do.

- Sensors are located between the primary and back-up (containment) diaphragms
- When the sensors detect a conductive liquid, an audible alarm, LED and an internal latching relay are activated
- Increase containment, reduce fugitive emissions and reduce downtime with 24-hour pump surveillance
- Power requirement: 110V AC or 220V AC

WILDEN Pump Cycle Monitor

The PCMI counts pump cycles by sensing the presence of the air valve piston (Turbo-Flo) or air valve spool (Pro-Flo).

- The sensor, located at the air valve and cap, detects the presence of a magnet located at the end of the air valve piston/spool
- The PCMI registers a complete pump cycle when the piston/spool shifts away from the sensor and subsequently returns to the original position
- The PCMI unit has a reset switch located on the face of the PCMI module
- PCMI has the ability to be reset from a remote location

Accessories

Wilden accessory products add value to your liquid process and expand the application range of Wilden pumps by augmenting the performance and/or utility of the pump. Our electronic controllers automate your Wilden pump for batching and other electronically controlled dispensing applications. We can also create laminar process flow by eliminating pump pulsation or control the liquid level within a system of process.

The inherent features of the Wilden air-operated pump and Accu-Flo pump technology allow it to excel as a utilitarian drum pump. Various speed and pressure capability, the ability to run dry, self-prime and dead-head offers you flexibility at a low cost. The Wilden universal drum pump kit enables Wilden 1/4” and 1/2” pumps to adapt directly to drums for cost-effective, efficient liquid transfer.

- Universal kit for 6 mm (1/4”) and 13 mm (1/2”) pumps
- Fits 51 mm (2”) NPT bungholes
- Tube length can be cut to length
- Variety of materials are available
WILDEN SD Equalizer®

The Surge Dampener (SD) Equalizer® was designed to remove pressure variation on the discharge end of the pump. It has a flow-through design manufactured with existing Wilden pump parts. The SD Equalizer automatically sets and maintains the correct air pressure required, optimizing its effectiveness.

Features and Benefits:
- Reduces pipe vibration and shaking
- Protects in-line equipment
- Reduces water hammer
- Absorbs acceleration head
- Lowers system maintenance cost
- Suction stabilizer
- Helps prevent leaking at pipe fittings and joints
- Extends and improves pump performance
- Avoids damaging pressure surges
- Wide range of material and elastomer options
- Common parts with Wilden pumps
- Self adjusts to system pressure

Available Sizes:
- 13 mm (1/2”)
- 25 mm (1”)
- 38 mm (1-1/2”)
- 51 mm (2”)
- 76 mm (3”)

Materials of Construction:
Wetted Housing
- Aluminum
- 316 and 316L Stainless Steel
- Ductile Iron
- Polypropylene
- PVDF

Air Distribution System
- Aluminum
- 316 Stainless Steel
- Polypropylene
- Glass-filled polypropylene
- Mild Steel PTFE-coated

ATEX Models Available
**Original Clamped Pumps**

The legendary Wilden Original™ pumps were designed for rugged utilitarian types of applications that require a robust design. Original pumps ensure reliability without sacrificing ease of maintenance.

The Wilden metal and plastic pump line lends itself to various processes and waste applications. Wilden Original pumps have the largest material and elastomer offerings in the industry to meet your abrasion, temperature and chemical compatibility challenges.

Original pumps are offered in aluminum, stainless steel, ductile iron, PVDF and polypropylene. A variety of elastomers, connection options and specialized air distribution systems are also available for your specific application needs.

---

**Your Needs**

- **Versatility**
- **Reliability**
- **Cost**

**Original Pumps**
- Intrinsically safe
- Self priming
- Variable speed
- Dry run without damage
- Single-point exhaust option
- Widest range of materials and pump sizes in the industry

**Dependable**
- Decades of proven application success
- Proven air distribution systems
- Simplicity of design
- Superior anti-freezing
- Increased On/Off reliability

**Low Cost Alternatives**
- Low cost
- Simple installation
- Ease of maintenance

**Our Solutions**

**The Results**

**Success**
- Higher yields
- Shear sensitive
- Portability
- Large solids passage
- Strong suction-lift capabilities
- Externally serviceable air valve
- Screen base models available

**Utilitarian Solutions**
- Viscous and non-viscous product transfer
- Largest chemical compatibilities
- Longest Mean Time between Repair (MTBR)
- Transfer with confidence

**Cost Savings**
- Efficient ADS
- Proven track record
- Optimized applications
- Lower operational costs and downtime
- Saves you money
**ORIGINAL Metal Clamped Pumps**

**Tech Data**
- Sizes: 6 mm (1/4") through 102 mm (4")
- Materials: Aluminum, Ductile Iron, Stainless Steel, Alloy C
- Material Temperatures: Up to 177°C (350°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton, Wil-Flex, Saniflex, Polyurethane, PTFE, Geolast
- ADS: Pro-Flo® SHIFT, Pro-Flo X™, Pro-Flo®, Turbo-Flo™, Accu-Flo™

**Performance Data**
- Max. flow rate: 1211 lpm (320 gpm)
- Max. suction lift: 9.5 m (31.1') wet, 7.6 m (25.0') dry
- Max. disp. per stroke: 5.3 L (1.41 gal)
- Max. discharge pressure: 8.6 bar (125 psig)
- Max. solids passage: 35 mm (1-3/8")
## METAL TECHNICAL SPECS

### SIZING CONSIDERATIONS

<table>
<thead>
<tr>
<th>MODELS</th>
<th>WETTED MATERIALS</th>
<th>LIQUID INLET</th>
<th>LIQUID DISCHARGE</th>
<th>BSPT/NPT</th>
<th>DIN/ANSI</th>
<th>*TRI-CLAMP® STYLE</th>
<th>SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS1</td>
<td>Aluminum Stainless Steel Alloy C</td>
<td>13 mm (1/2&quot;)</td>
<td>13 mm (1/2&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6 kg (13 lb) 9 kg (20 lb)</td>
</tr>
<tr>
<td>PS4</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>38 mm (1-1/2&quot;)</td>
<td>32 mm (1-1/4&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>21 kg (46 lb) 28 kg (62 lb) 30 kg (66 lb)</td>
</tr>
<tr>
<td>PS8</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>51 mm (2&quot;)</td>
<td>51 mm (2&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>35 kg (78 lb) 53 kg (117 lb) 49 kg (109 lb)</td>
</tr>
<tr>
<td>PS15</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>76 mm (3&quot;)</td>
<td>76 mm (3&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>55 kg (121 lb) 105 kg (230 lb) 93 kg (205 lb)</td>
</tr>
<tr>
<td>PS20</td>
<td>Cast Iron</td>
<td>102 mm (4&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>223 kg (492 lb)</td>
</tr>
<tr>
<td>PX1</td>
<td>Aluminum Stainless Steel</td>
<td>13 mm (1/2&quot;)</td>
<td>13 mm (1/2&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6 kg (13 lb) 9 kg (20 lb)</td>
</tr>
<tr>
<td>PX4</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>38 mm (1-1/2&quot;)</td>
<td>32 mm (1-1/4&quot;)</td>
<td>-</td>
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<td>76 mm (3&quot;)</td>
<td>76 mm (3&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>60 kg (132 lb) 90 kg (198 lb) 98 kg (216 lb)</td>
</tr>
<tr>
<td>PX20</td>
<td>Cast Iron</td>
<td>102 mm (4&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>223 kg (492 lb)</td>
</tr>
<tr>
<td>P025</td>
<td>Aluminum Stainless Steel Alloy C</td>
<td>6.4 mm (1/4&quot;)</td>
<td>6.4 mm (1/4&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2 kg (5 lb) 4 kg (9 lb) 4.3 kg (9.5 lb)</td>
</tr>
<tr>
<td>P1</td>
<td>Aluminum Stainless Steel</td>
<td>13 mm (1/2&quot;)</td>
<td>13 mm (1/2&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>6 kg (13 lb) 9 kg (20 lb)</td>
</tr>
<tr>
<td>P2</td>
<td>Aluminum Stainless Steel</td>
<td>25 mm (1&quot;)</td>
<td>19 mm (3/4&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>9 kg (20 lb) 17 kg (37 lb)</td>
</tr>
<tr>
<td>P4</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>38 mm (1-1/2&quot;)</td>
<td>32 mm (1-1/4&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>13 kg (29 lb) 20 kg (45 lb) 22 kg (49 lb) 23 kg (51 lb)</td>
</tr>
<tr>
<td>P8</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>51 mm (2&quot;)</td>
<td>51 mm (2&quot;)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>32 kg (70 lb) 51 kg (112 lb) 47 kg (104 lb) 52 kg (114 lb)</td>
</tr>
</tbody>
</table>

* SS wetted material only
### Performance

#### Max. Suction Lift

<table>
<thead>
<tr>
<th>Max Discharge Pressure</th>
<th>Max Solids Passage</th>
<th>Dry</th>
<th>Wet</th>
<th>Dry</th>
<th>Wet</th>
<th>Rubber/TPE</th>
<th>PTFE</th>
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<td>1.6 mm (1/16&quot;)</td>
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<td>9.8 m (32.3&quot;)</td>
<td>4.3 m (14.2&quot;)</td>
<td>9.7 m (31.7&quot;)</td>
<td>60.2 lpm (15.9 gpm)</td>
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<td>496 lpm (131 gpm)</td>
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<td>LIQUID INLET</td>
<td>LIQUID DISCHARGE</td>
<td>CONNECTION TYPE</td>
<td>SHIPPING WEIGHT</td>
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<tr>
<td>T1</td>
<td>Aluminum Stainless Steel</td>
<td>13 mm (1/2&quot;)</td>
<td>13 mm (1/2&quot;)</td>
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<td>6 kg (13 lb) 9 kg (20 lb)</td>
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<tr>
<td>T2</td>
<td>Aluminum Stainless Steel</td>
<td>25 mm (1/2&quot;)</td>
<td>19 mm (3/4&quot;)</td>
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<td>12 kg (26 lb) 16 kg (36 lb)</td>
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<tr>
<td>T4</td>
<td>Aluminum Stainless Steel Cast Iron</td>
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<td>32 mm (1-1/4&quot;)</td>
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<td>17 kg (38 lb) 26 kg (57 lb) 26 kg (57 lb)</td>
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<td>Aluminum Cast Iron</td>
<td>51 mm (2&quot;)</td>
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<td>33 kg (72 lb) 52 kg (114 lb)</td>
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<tr>
<td>T15</td>
<td>Aluminum Stainless Steel Cast Iron</td>
<td>76 mm (3&quot;)</td>
<td>76 mm (3&quot;)</td>
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<td>53 kg (116 lb) 79 kg (175 lb) 91 kg (200 lb)</td>
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<td>6 kg (13 lb) 9 kg (20 lb) 10 kg (22 lb)</td>
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<td>6 kg (13 lb) 9 kg (20 lb) 10 kg (22 lb)</td>
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<td>12 kg (26 lb) 16 kg (36 lb) 18 kg (40 lb)</td>
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<td>12 kg (26 lb) 16 kg (36 lb) 18 kg (40 lb)</td>
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* SS wetted material only
## Sizing Considerations

### Performance

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<th>Liquid Discharge</th>
<th>Max. Suction Lift</th>
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<td>Turbo-Flo</td>
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<td>13 mm (1/2&quot;)</td>
<td>6 kg (13 lb)</td>
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<td>12 kg (26 lb)</td>
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<td>76 mm (3&quot;)</td>
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<td>12 kg (26 lb)</td>
<td>BSPT/NPT, DIN/ANSI</td>
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### Shipping Weight

- **Turbo-Flo**
  - T1: 9 kg (20 lb)
  - T2: 16 kg (36 lb)
  - T4: 26 kg (57 lb)
  - T8: 52 kg (114 lb)

- **ACU-FLO**
  - A.025P: 5 kg (11 lb)
  - A.025T: 5 kg (11 lb)
  - A1P: 10 kg (22 lb)
  - A1T: 10 kg (22 lb)

### Max. Flow

- **Turbo-Flo**
  - T1: 54.9 lpm (14.5 gpm)
  - T2: 132 lpm (35 gpm)
  - T4: 307 lpm (81 gpm)
  - T8: 617 lpm (163 gpm)

- **ACU-FLO**
  - A.025P: 15.5 lpm (4.1 gpm)
  - A.025T: 15.1 lpm (4.0 gpm)
  - A1P: 40.5 lpm (10.7 gpm)
  - A1T: 35.6 lpm (9.4 gpm)

### Performance

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<td>1.6 mm (1/16&quot;)</td>
<td>1.5 m (5.0')</td>
<td>9.5 m (31.0')</td>
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<td>4.85 m (15.9')</td>
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*SS wetted material only*
METAL PERFORMANCE CURVES

102 mm (4”) METAL | RUBBER

102 mm (4”) METAL | FULL-STROKE PTFE

13 mm (1/2”) METAL | RUBBER

13 mm (1/2”) METAL | PTFE

38 mm (1-1/2”) METAL | RUBBER

38 mm (1-1/2”) METAL | REDUCED-STROKE PTFE

51 mm (2”) METAL | RUBBER

51 mm (2”) METAL | REDUCED-STROKE PTFE
**Stallion® Solids Handling Pumps**

Stallion® pumps can handle what miners demand: durability, portability and ease of maintenance. The Stallion pump is designed to transfer solid-laden slurries safely and effectively. Large internal clearance and flow-through design keep the pump from clogging while the Wilden patented air distribution system maintains On/Off reliability. Put us to the test today!

**Features**
- Large solids to 25 mm (1”)
- Collapsible handles
- Shock absorbing base
- Intrinsically safe operation
- Screen base models

### METAL TECHNICAL SPECS

#### SIZING CONSIDERATIONS

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<tr>
<th>MODELS</th>
<th>WETTED MATERIALS</th>
<th>LIQUID INLET</th>
<th>LIQUID DISCHARGE</th>
<th>SHIPWEIGHT</th>
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<td>Aluminum</td>
<td>51 mm (2&quot;)</td>
<td>51 mm (2&quot;)</td>
<td>•</td>
<td>22 kg (79 lb)</td>
</tr>
<tr>
<td></td>
<td>Ductile Iron</td>
<td></td>
<td></td>
<td></td>
<td>49 kg (109 lb)</td>
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<tr>
<td>PS15</td>
<td>Aluminum</td>
<td>76 mm (3&quot;)</td>
<td>76 mm (3&quot;)</td>
<td>•</td>
<td>63 kg (138 lb)</td>
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#### PERFORMANCE

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<tr>
<th>MODELS</th>
<th>WETTED MATERIALS</th>
<th>LIQUID INLET</th>
<th>LIQUID DISCHARGE</th>
<th>MAX. DISCHARGE PRESSURE</th>
<th>MAX. SOLIDS PASSAGE</th>
<th>RUBBER/TPE</th>
<th>PTFE</th>
<th>MAX. FLOW</th>
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</table>
| PRO-FLO STALLION

<table>
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<tr>
<th>MODELS</th>
<th>WETTED MATERIALS</th>
<th>LIQUID INLET</th>
<th>LIQUID DISCHARGE</th>
<th>MAX. DISCHARGE PRESSURE</th>
<th>MAX. SOLIDS PASSAGE</th>
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<th>PTFE</th>
<th>MAX. FLOW</th>
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<td>Aluminum</td>
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<td>32 mm (1-1/4&quot;)</td>
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<td>22 kg (49 lb)</td>
<td>13 mm (1/2&quot;)</td>
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<td>6.4 m (21.0&quot;)</td>
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<td>19 mm (3/4&quot;)</td>
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<td>Ductile Iron</td>
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<td>49 kg (109 lb)</td>
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<td>PX15</td>
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<td>•</td>
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<td>25 mm (1&quot;)</td>
<td>(125 psig)</td>
<td>5.7 m (18.7&quot;)</td>
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#### TECHNICAL SPECS

**38 mm (1-1/2") METAL | TPE**

**51 mm (2") METAL | TPE**
METAL PERFORMANCE CURVES

76 mm (3") METAL | TPE

13 mm (1/2") METAL | RUBBER

38 mm (1-1/2") METAL | RUBBER

38 mm (1-1/2") METAL | RUBBER
Plastic Clamped Pumps

**Tech Data**
- Sizes: 6 mm (1/4") through 51 mm (2")
- Materials: Polypropylene, PVDF, and PTFE PFA
- Material Temperatures: Up to 107°C (225°F)
- Elastomers: Buna-N, Neoprene, EPDM, Viton, Wil-Flex, Saniflex, Polyurethane, PTFE, Geolast
- ADS: Pro-Flo SHIFT, Pro-Flo X, Pro-Flo, Accu-Flo

**Performance Data**
- Max flow rate: 643 lpm (170 gpm)
- Max suction lift: 9.8 m (32.0') Wet, 7.8 m Dry (25.5') Dry
- Max disp. per stroke: 2.8 L (0.75 gal)
- Max discharge pressure: 8.6 bar (125 psig)
- Max size solids: 6.4 mm (1/4")
## Plastic Technical Specs

### Sizing Considerations

<table>
<thead>
<tr>
<th>Models</th>
<th>Wetted Materials</th>
<th>Liquid Inlet</th>
<th>Liquid Discharge</th>
<th>Connection Type</th>
<th>Shipping Weight</th>
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<td></td>
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<td></td>
<td></td>
<td>-</td>
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<td><strong>Pro-Flo</strong></td>
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<td>43 kg (95 lb)</td>
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<td>Polypropylene PVDF PTFE PFA</td>
<td>38 mm (1-1/2&quot;)</td>
<td>38 mm (1-1/2&quot;)</td>
<td>-</td>
<td>17 kg (37 lb)</td>
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<td>-</td>
<td>23.9 kg (52 lb)</td>
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<td>Polypropylene PVDF</td>
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<td>-</td>
<td>34 kg (75 lb)</td>
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<tr>
<td></td>
<td></td>
<td></td>
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<td>-</td>
<td>43 kg (95 lb)</td>
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<td><strong>Accu-Flo</strong></td>
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<td>A.025P</td>
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<td>6 mm (1/4&quot;)</td>
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<td>-</td>
<td>1 kg (3 lb)</td>
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<td>4 kg (9 lb)</td>
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<td>Polypropylene PVDF</td>
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<td>-</td>
<td>10 kg (23 lb)</td>
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<tr>
<td></td>
<td>Polypropylene PVDF</td>
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<td>25 mm (1&quot;)</td>
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<td>8 kg (18 lb)</td>
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<td></td>
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<td>10 kg (23 lb)</td>
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### Performance

#### Max. Suction Lift

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<tr>
<th>Model</th>
<th>Max. Discharge Pressure</th>
<th>Max. Suction Lift</th>
<th>RUBBER/TPE</th>
<th>PTFE</th>
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<tbody>
<tr>
<td>PRO-FLO</td>
<td>8.6 bar (125 psig)</td>
<td>4.8 mm (3/16”)</td>
<td>6.2 m (20.4”)</td>
<td>6.1 m (19.9”)</td>
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<tr>
<td></td>
<td>6.4 mm (1/4”)</td>
<td>6.6 m (21.8”)</td>
<td>8.3 m (27.2”)</td>
<td>8.3 m (27.2”)</td>
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<td>PRO-FLO X</td>
<td>8.6 bar (125 psig)</td>
<td>4.8 mm (3/16”)</td>
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<td>9.2 m (30.1”)</td>
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<tr>
<td></td>
<td>6.4 mm (1/4”)</td>
<td>7.8 m (25.5”)</td>
<td>8.6 m (28.4”)</td>
<td>8.2 m (29.0”)</td>
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<tr>
<td>ACCU-FLO</td>
<td>8.6 bar (125 psig)</td>
<td>0.4 mm (1/64”)</td>
<td>3.1 m (10.0”)</td>
<td>9.5 m (31.0”)</td>
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<td>1.6 mm (1/16”)</td>
<td>6.1 m (20.0”)</td>
<td>9.8 m (32.0”)</td>
<td>5.2 m (17.0”)</td>
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<tr>
<td></td>
<td>3.2 mm (1/8”)</td>
<td>5.5 m (18.0”)</td>
<td>8.8 m (29.0”)</td>
<td>3.4 m (11.0”)</td>
</tr>
<tr>
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<td>4.8 mm (3/16”)</td>
<td>4.9 m (16.0”)</td>
<td>7.9 m (26.0”)</td>
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<td>7.0 m (23.0”)</td>
<td>9.5 m (31.0”)</td>
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<td>4.1 m (13.6”)</td>
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<td>1.6 mm (1/16”)</td>
<td>2.9 m (9.6”)</td>
<td>9.3 m (30.6”)</td>
<td>4.3 m (14.2”)</td>
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<td>3.2 mm (1/8”)</td>
<td>4.5 m (15”)</td>
<td>9.3 m (31”)</td>
<td>3.5 m (11”)</td>
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<td>6.2 m (20.4”)</td>
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<td>9.0 m (29.5”)</td>
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<td>8.6 bar (125 psig)</td>
<td>3.2 mm (1/8”)</td>
<td>4.5 m (14.7”)</td>
<td>9.3 m (30.6”)</td>
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</table>
PLASTIC PERFORMANCE CURVES

25 mm (1") PLASTIC | RUBBER

25 mm (1") PLASTIC | PTFE
Things to Think About
When Selecting an Air-Operated Double-Diaphragm (AODD) Pump

Application
- What application will the pump be used in?
- What are you pumping?
- Do you need lube-free operation?
- Does the pump need to be submersible?
- What cleaning fluids would be used to clean the pump?
- What are your performance parameters (flow rates, air consumption, viscosities, suction lift)?
- Do you need a pulsation dampener?

Air Distribution System (ADS)
- What ADS best suits your application needs?
- How reliable is the ADS?
- How efficient is the ADS?
- Do you need On/Off reliability?
- Is the pump ADS ATE-approved?
- Does the ADS have anti-freezing technology?
- Does the ADS have integrated variable performance controls?

Installation
- Before installation please read the caution section of the pump manual.
- What are your piping considerations (valves, elbows, pipe friction losses, etc.)?
- Do you have sufficient air pressure and air volume for the pump?
- What is the MTBR (Mean Time Between Repair) of the AODD pump?
- What are your installation parameters (self-priming, positive suction head, high vacuum, heat generation, dry-run capable, submersible, large solids passage, variable flow and pressure, shear sensitive)?
- Ease of maintenance: is the pump easy to clean, assemble/disassemble?

Wetted Materials
- What media will you be pumping?
- What is the chemical compatibility of the elastomer?
- What are the temperature limits of the wetted material and elastomer?
- How abrasive is the media being pumped?
- Do diaphragm configurations affect flow?

Distributors
- Is your distributor local?
- Can the distributor fully support your fluid transfer needs?
- Are they a full-stocking, full-service distributor?
- How good is delivery? Is it less than 3 weeks?
- Is the distributor formally educated in specifying and maintaining your system?
- How are the services and repair capabilities of the distributor?
- Does the distributor do local training for your staff?
- How responsive is the distributor to your needs?

Resources
- wildenpump.com
- Locating your Authorized Wilden Distributor: wildendistributor.com
- Engineering, Operations and Maintenance Manuals: wildenpump.com > Support > Manuals (EOMs)
- Cavitation and Friction Guide & Safety Supplement: wildenpump.com > Support > Literature
- Troubleshooting: wildenpump.com in the Support section (Troubleshooting)