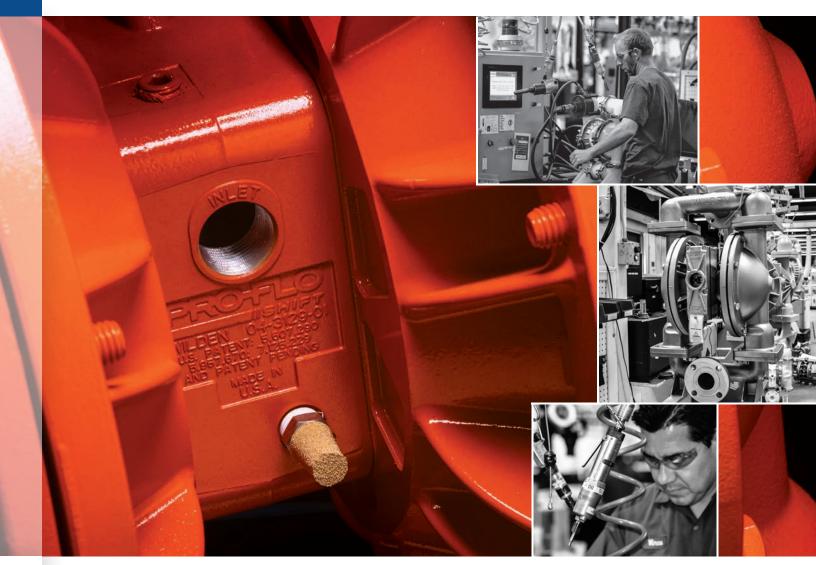


Brand Portfolio

simple. reliable. efficient.









WILDEN

From Innovator To Market Leader

Since 1955, Wilden® has been the global leader in air-operated double-diaphragm (AODD) pump technology. As the inventor of the AODD pump, Wilden introduces a constant flow of new innovations that have catapulted the positive displacement pump into the future. From developing premier AODD pump technology to offering the world's largest selection of diaphragms, Wilden's extensive knowledge base combined with unprecedented new technologies and unparalleled customer service provides end users with the peace of mind they need when selecting a process-solution provider.

Wilden resides in Grand Terrace, CA, where the facility occupies more than 170,000 square feet (15,793 square meters), incorporating a world-class lean manufacturing facility. Committed to excellence, innovation and developing the most trustworthy AODD-pump technology in the industry, Wilden operates a fully equipped R&D laboratory, clean room, test facility, QC department, CAD department, injection-molding center and customer satisfaction department at the site.





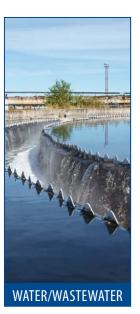
Serving the energy, process, hygienic, mining and water & wastewater markets, Wilden's world-class distributor network ensures that you will have access to the latest pump technologies and fluid transfer services available when you need them. To find a distributor closest to you, go to wildendistributor.com.





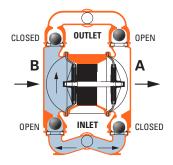




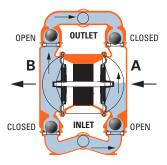


Working Principle of Wilden AODD Pumps

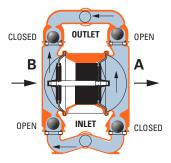
Wilden AODD pumps are reciprocating, positive-displacement-style pumps driven by compressed air. The following drawings and information detail the liquid flow pattern through the pump from its initial unprimed position.



- The air valve directs pressurized air to the back side of Diaphragm A.
- The compressed air moves the diaphragm away from the center of the pump.
- Diaphragm B is pulled in by the shaft connected to the pressurized Diaphragm A.
- 4. Diaphragm B is now on its suction stroke. The movement of Diaphragm B toward the center of the pump creates a vacuum within chamber B and causes the atmospheric pressure to force fluid into the inlet manifold forcing the inlet valve ball off its seat.



- When the pressurized diaphragm, Diaphragm A, reaches the limit of its discharge stroke, the air valve redirects pressurized air to the back side of Diaphragm B.
- The pressurized air forces diaphragm B away from the center while pulling Diaphragm A to the center.
- Diaphragm B is now on its discharge stroke. Diaphragm B forces the inlet valve ball onto its seat due to the hydraulic forces.
- 8. The hydraulic forces lift the discharge valve ball off its seat, while the opposite discharge valve ball is forced onto its seat, forcing fluid to flow through the pump discharge.



- 9. At completion of the stroke, the air valve redirects air to the back side of diaphragm A, which starts diaphragm B on its exhaust stroke.
- 10. As the pump reaches its original starting point, each diaphragm has gone through one exhaust and one discharge stroke.

This constitutes one complete pumping cycle. The pump may take several cycles to completely prime depending on the conditions of the application.

Benefits of AODD Pumps

Thanks to their unique operating principle, AODD pumps excel in a wide variety of applications and incorporate numerous features and benefits, including:

- · Self priming
- Portable
- High vacuum
- Run-dry capable
- · No heat generation
- Submersible
- Superior product containment
- · Easy installation
- Corrosion resistant
- Longest Mean Time Between Failure (MTBF)







Wilden Pro-Flo® SHIFT Series

The Wilden Pro-Flo® SHIFT Series is the premier AODD pump. The innovative, yet simple, Pro-Flo SHIFT design features 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. This results in a reduction of air consumption and operational costs while maximum operational efficiency and volumetric consistency are maintained. Pro-Flo SHIFT Pumps are an exact fit from bolt-down footprint to inlet/discharge connections and can drop into existing fluid-handling piping systems.

- Delivers more yield per SCFM versus competitive AODD pumps
- · Longer diaphragm life

- ATEX-compatible for use in explosive atmospheres
- · Ability to use wet/dry air
- Fewer operating parts, meaning less downtime and simplified maintenance
- · Quiet operation



















| | Size | Connection Type | Wetted Path Material | Max. Flow Rate | Max. Suction Lift | Max. Solids Passage | Certifications |
|-------|-----------------|--------------------|--|------------------------|--|------------------------|------------------------|
| | 13 mm (1/2") | Clamped | Alloy C, Aluminum, Stainless Steel | 60.2 lpm (15.9 gpm) | 5.9 m Dry (19.3') 9.8 m Wet (32.3') | 1.6 mm (1/16") | € (€ |
| | 25 mm (1") | Bolted | Aluminum, Ductile Iron, Stainless Steel | 212 lpm (56 gpm) | 6.9 m Dry (22.7') 9.0 m Wet (29.5') | 6.4 mm (1/4") | € ∞ C € |
| | 38 mm | Bolted | Aluminum, Ductile Iron, Stainless Steel | 510 lpm (135 gpm) | 6.2 m Dry (20.4') 9.3 m Wet (30.6') | 6.4 mm (1/4") | € x> C € |
| 7 | (1-1/2") | Clamped | Aluminum, Ductile Iron, Stainless Steel | 375 lpm (99 gpm) | 7.1 m Dry (23.3') 8.6 m Wet (28.4') | 4.8 mm (3/16") | €x> C € |
| METAL | 51 mm (2") | Bolted | Aluminum, Ductile Iron, Stainless Steel | 685 lpm (181 gpm) | 7.1 m Dry (23.3') 9.0 m Wet (29.5') | 6.4 mm (1/4") | €x> C € |
| | | Clamped | Aluminum, Cast Iron, Stainless Steel | 723 lpm (191 gpm) | 7.2 m Dry (23.8') 9.0 m Wet (29.5') | 6.4 mm (1/4") | €x> C € |
| | 76 mm | Bolted | Aluminum, Ductile Iron, Stainless Steel | 1026 lpm (271 gpm) | 7.2 m Dry (23.8') AL 9.7 m Wet (31.8') Iron | 12.7 mm (1/2") | € x> C € |
| | (3") | Clamped | Aluminum, Ductile Iron, Stainless Steel | 927 lpm (245 gpm) | 6.6 m Dry (21.6') 8.6 m Wet (28.4') | 9.5 mm (3/8") | € x> C € |
| | 102 mm (4") | Clamped | Cast Iron | 1048 lpm (277 gpm) | 4.4 m Dry (14.4') 8.6 m Wet (28.4') | 35 mm (1-3/8") | €x> C € |





| | Size | Connection Type | Wetted Path Material | Max. Flow Rate | Max. Suction Lift | Max. Solids Passage | Certifications |
|---------|---------------|--------------------|----------------------|-----------------------|--|------------------------|----------------|
| PLASTIC | 38 mm | Bolted | Polypropylene, PVDF | 458 lpm (121 gpm) | 5.6 m Dry (18.4') 9.0 m Wet (29.5') | 6.4 mm (1/4") | C€ |
| | (1-1/2") | Clamped | Polypropylene, PVDF | 379 lpm (100 gpm) | 6.2 m Dry (20.4') 8.3 m Wet (27.2') | 4.8 mm (3/16") | C€ |
| | 51 mm | Bolted | Polypropylene, PVDF | 709 lpm (187 gpm) | 5.9 m Dry (19.3') 8.3 m Wet (27.2') | 6.4 mm (1/4") | C€ |
| | (2") | Clamped | Polypropylene | 643 lpm (170 gpm) | 6.6 m Dry (21.8') 8.3 m Wet (27.2') | 6.4 mm (1/4") | C€ |
| | 76 mm (3") | Bolted | Polypropylene, PVDF | 1024 lpm (271 gpm) | 5.8 m Dry (19.1') 8.6 m Wet (28.4') | 12.7 mm (1/2") | C€ |



Wilden Pro-Flo® Series

As the industry's workhorse, the Wilden Pro-Flo® Series combines elegant simplicity with robust and reliable performance that end users have come to depend on for more than 20 years. Ideally suited for industrial applications calling for a durable chemical pump or oil pump, Pro-Flo Series pumps utilize advanced technology to increase productivity, reduce energy consumption, reduce air consumption and reduce maintenance. The Pro-Flo Series gives you extreme flexibility and reliability – with a wide range of sizes and material offerings – that end users can count on to deliver the consistent performance promised for challenging applications.

- · Maximum reliability
- Longest lasting wear parts
- · Lube-free operation
- Anti-freezing

- · Non-stalling unbalanced spool
- Simple and durable design





Pro-Flo Series Technical Specifications

| | Size | Connection Type | Wetted Path Material | Max. Flow Rate | Max. Suction Lift | Max. Solids Passage | Certifications |
|-------|-------------------|--------------------|--|------------------------|--|------------------------|----------------|
| | 6 mm (1/4") | Clamped | Aluminum, Stainless Steel | 18.9 lpm (5 gpm) | 3.3 m Dry (10.8') 9.3 m Wet (30.6') | 0.4 mm (1/64") | C€ |
| | 13 mm (1/2") | Clamped | Aluminum, Stainless Steel | 58.7 lpm (15.5 gpm) | 5.8 m Dry (19.0') 9.5 m Wet (31.0') | 1.6 mm (1/16") | C€ |
| | 25 mm (1") | Bolted | Aluminum, Ductile Iron, Stainless Steel * | 212 lpm (56 gpm) | 5.4 m Dry (17.6') 9.3 m Wet (30.6') | 6.4 mm (1/4") | €x> C € |
| METAL | | Clamped | Aluminum, Stainless Steel | 172 lpm (45.5 gpm) | 7.6 m Dry (25.0') 9.0 m Wet (29.5') | 3.2 mm (1/8") | C€ |
| | 38 mm (1-1/2") | Bolted | Aluminum, Ductile Iron, Stainless Steel * | 492 lpm (130 gpm) | 5.5 m (18.2') Dry 9.0 m (29.5') Wet | 6.4 mm (1/4") | €∞ (€ |
| | | Clamped | Aluminum, Ductile Iron, Stainless Steel | 330 lpm (87.2 gpm) | 6.4 m Dry (21.0') 9.3 m Wet (30.6') | 4.8 mm (3/16") | C€ |
| | 51 mm (2") | Bolted | Aluminum, Ductile Iron, Stainless Steel * | 609 lpm (161 gpm) | 7.4 m Dry (24.3') 9.0 m Wet (29.5') | 6.4 mm (1/4") | €∞ (€ |
| | | Clamped | Aluminum, Ductile Iron, Stainless Steel | 630 lpm (166 gpm) | 6.9 m Dry (22.7') 9.5 m Wet (31.0') | 6.4 mm (1/4") | C€ |

*ATEX Certification







| | Size | Connection Type | Wetted Path Material | Max. Flow Rate | Max. Suction Lift | Max. Solids Passage | Certifications |
|---------|---------------|--------------------|----------------------|------------------------|--|------------------------|----------------|
| | 6 mm | Bolted | Polypropylene, PVDF | 16.7 lpm (4.4 gpm) | 1.9 m Dry (6.2') 9.3 m Wet (30.6') | 0.7 mm (1/32") | CE |
| PLASTIC | (1/4") | Clamped | Polypropylene, PVDF | 18.1 lpm (4.8 gpm) | 3.05 m Dry (10.0') 8.84 m Wet (29.0') | 0.4 mm (1/64") | CE |
| | 13 mm | Bolted | Polypropylene, PVDF | 58.7 lpm (15.5 gpm) | 5.5 m Dry (18.0') 9.3 m Wet (30.6') | 1.6 mm (1/16") | C€ |
| | (1/2") | Clamped | Polypropylene, PVDF | 56.8 lpm (15 gpm) | 6.1 m Dry (20.0') 9.8 m Wet (32.0') | 1.6 mm (1/16") | C€ |
| | 25 mm (1") | Bolted | Polypropylene, PVDF | 220 lpm (58 gpm) | 3.6 m Dry (11.9') 9.8 m Wet (32.0') | 4.76 mm (3/16") | C€ |
| | | Clamped | Polypropylene, PVDF | 140 lpm (37 gpm) | 5.5 m Dry (18.0') 8.8 m Wet (29.0') | 3.2 mm (1/8") | C€ |
| | 38 mm | Bolted | Polypropylene, PVDF | 454 lpm (120 gpm) | 5.7 m Dry (18.7') 9.3 m Wet (30.6') | 6.4 mm (1/4") | C€ |
| | (1-1/2") | Clamped | Polypropylene, PVDF | 354 lpm (94 gpm) | 4.88 m Dry (16.0') 9.3 m Wet (30.6') | 4.8 mm (3/16") | CE |
| | 51 mm | Bolted | Polypropylene, PVDF | 624 lpm (165 gpm) | 6.23 m Dry (8.65') 9.0 m Wet (29.5') | 6.4 mm (1/4") | C€ |
| | (2") | Clamped | Polypropylene | 591 lpm (156 gpm) | 7.4 m Dry (24.4') 9.45 m Wet (31.0') | 6.4 mm (1/4") | CE |
| | 76 mm (3") | Bolted | Polypropylene, PVDF | 878 lpm (232 gpm) | 5.5 m Dry (18.2') 8.6 m Wet (28.4') | 12.7 mm (1/2") | CE |

SPECIALTY SERIES PUMPS







| | Hygienic & Sanitary Saniflo™ HS, Saniflo FDA | Electronic Control ACCU-FLO™ | Utility TURBO-FLO™ |
|-----------------|--|--|--|
| Description | Sanitary pump with flow-through design for efficiently pumping a wide range of viscosities, solids and shearsensitive products. HS pumps feature quick disconnect clamps for clean-in-place (CIP) and clean-out-of-place (COP) capabilities | Solenoid-controlled dosing pump for external control, precision metering and batching applications. Features direct electrical interface utilizing electrical impulses to stroke the pump providing variable stroke rate that can easily be control Available as NEMA 5, NEMA 7 or ATEX-compliant and is available with a variety of voltage options | Utility pump well suited for certain applications where quality of compressed air is a concern. Turbo-Flo pumps are easy-to-maintain, cost-effective and provide economical solutions for general and utilitarian applications. |
| Applications | Food and beverage, pharmaceuticals/ bio-pharm | Metering and batching | General transfer, de-watering, ceramic applications |
| Benefits | Delicate product handling and shear sensitive Large solids passage CIP capabilities Ease of maintenance Minimized product degradation | Direct electrical interface Superior ON/OFF reliability Various voltage options Externally controlled | Pourable Fewest replaceable parts Ease of maintenance Established air distribution system Clamped construction for quick assembly and disassembly |
| Sizes Available | Saniflo HS: 38 mm (1-1/2"), 76 mm (3") Saniflo FDA: 13 mm (1/2"), 76 mm (3") | 6 mm (1/4") - 25 mm (1") | 13 mm (1/2"), 38 mm (1-1/2"), 51 mm (2"), 76 mm (3"), and 102 mm (4") |
| Max Flow Rate | Saniflo HS: 844 lpm (223 gpm) Saniflo FDA: 927 lpm (245 gpm) | 170 lpm (45 gpm) | 1041 lpm (275 gpm) |
| Certifications | *Applies only to Saniflo HS **USP Class VI certification available only on Saniflo HS pumps | C€ | C€ |











| High-Pressure HIGH-PRESSURE | Mining and Large Solids STALLION, BRAHMA | Natural Gas GPS | Fuel Transfer UL | Skids, Systems and Dosing VELOCITY |
|--|--|---|---|---|
| Ideal for the transfer of viscous and solids laden products at high discharge pressures delivering pressures up to 300 psig (20.7 bar). Available in both simplex and duplex diaphragm technologies. | Designed for handling of large solid-laden mining slurries with ease, offering internal clearance and flowthrough paths that prevents clogging. Wilden pumps are externally serviceable, submersible and offer both ball and flap valve options specifically designed for heavy duty solids handling application. | Natural gas-operated pumps approved by the Canadian Standards. Association (CSA) for oil and gas applications where compressed air is not readily accessible. | Certified to meet UL79 standards and meets the requirements for fuel transfer applications. | Designed with OEM systems and skids in mind Velocity pumps offers the versatility and adaptable mounting capabilities required to fit in small restricted spaces. The Velocity also features up to 4.3 m (14.2') of dry suction lift for better priming under a wide variety of system conditions. |
| Filtration, chemical-sludge transfer and general industrial applications | Mining applications, slurries, dewatering and intermittent- duty applications | Oil circulation and transfer, service trucks, bulk and chemical transfer | Transferring gas products, fuels, petroleums, other lubricating fluids | Dosing applications, inks and dyes, skids and systems |
| Simplex and duplex positive displacement technology Maintain high discharge pressures Robust metal bolted construction Power piston built in air amplification system Ability to handle viscous products | Large solids up to 76 mm (3") Collapsible handles Shock absorbing base Submersible Screen base models | Operates off natural gas Bolted design for maximum containment Energy efficient (up to 60% savings in air consumption) Industry leading flow rates Metal housing Drop-in replacement of competitive models | Energy efficient (up to 60% savings in air consumption) Superior anti-freezing Metal housing Lube-free operation | Multiple mounting configurations Multiple porting options Bore-seal design eliminates effects of torque decay Interchangeable footprint with competitor and Wilden designs |
| 25 mm (1") - 76 mm (3") | Stallion: 38 mm (1-1/2"), 76 mm (3") Brahma: 51 mm (2"), 76 mm (3") | 13 mm (1/2") - 76 mm (3") | 13 mm (1/2") - 25 mm (1") | 6 mm (1/4") |
| 360 lpm (95 gpm) | Stallion: 764 lpm (202 gpm) Brahma: 977 lpm (258 gpm) | 993 lpm (246 gpm) | 212 lpm (56 gpm) | 21.6 lpm (5.7 gpm) |
| (€⟨₺⟩ | (€& | ② ◆ (€ | (4) (€ (5x) | |
| *76 mm (3") not ATEX compliant | | *13 mm (1/2") and 25 mm (1") models available as GPX models | | |



Wilden Diaphragms – The Right Solution For Every Application

As the inventors of AODD pump technology, Wilden offers the largest selection of AODD diaphragms in the world to ensure that your unique application is fully met with the best possible diaphragm. Wilden has a diaphragm for every industry and application, and Wilden's quality ensures superior construction and that each diaphragm is engineered with long flex life and superior durability.

Wilden diaphragms are available in a wide range of shapes, sizes and materials - including rubber, thermoplastic, PTFE and Wilden-developed Ultra-Flex™. Wilden also offers it's patented Chem-Fuse and Pure-Fuse Integral Piston Diaphragms (IPDs) that eliminate potential leak points, offer easy cleanability and reduces abrasion for longer diaphragm life.

| Materials | | | | D | iaphragr | ns | | | Tra | aits | Chemical Resistance/Applications | | | | Operating Temperature Limits | Cost | | |
|---------------------|--------------|-----------|-----------|------------|---------------------|------------------------|------------|-------------|----------|------------------------|----------------------------------|---|---|----------|------------------------------------|----------|----------------------------------|----------|
| | | Chem-Fuse | Pure-Fuse | EZ-Install | Full-Stroke PTFE | Reduced-Stroke PTFE | Ultra-Flex | Traditional | FlexLife | Abrasion Resistance | Ketones & Aldehydes | | | | Oil & Gas | | (Max/Min) | (\$) |
| E) | Wil-Flex™ | 1 | 1 | 1 | | | | 1 | Α | Α | ✓ | 1 | | | | ✓ | -40° to 107°C [-40° to 225°F] | \$ |
| astic (TP | Saniflex™ | | 1 | 1 | | | | 1 | В | А | | | 1 | | | | –29° to 104°C [–20° to 220°F] | \$\$ |
| Thermoplastic (TPE) | Geolast® | | | 1 | | | | 1 | С | В | | | | | 1 | | -40° to 82°C [-40° to 180°F] | \$\$ |
| 두 | Polyurethane | | | 1 | | | | 1 | Α | А | | | | | | 1 | -12° to 66°C [10° to 150° F] | \$ |
| PTFE | PTFE | | | | 1 | 1 | | | Α | В | 1 | 1 | 1 | 1 | 1 | 1 | 4° to 104°C [40° to 220°F] | \$\$\$ |
| | Buna-N | | | | | | 1 | 1 | С | С | | | | | 1 | | –12° to 82°C [10° to 180°F] | \$\$ |
| Rubber | EPDM | | | | | | 1 | 1 | В | С | 1 | 1 | | | | | –51° to 138°C [–60° to 280°F] | \$\$ |
| Rub | Neoprene | | | | | | 1 | 1 | В | С | | | | | | 1 | –18° to 93°C [0° to 200°F] | \$ |
| | Viton® | | | | | | √ | ✓ | С | С | | | 1 | ✓ | | | –40° to 177°C [–40° to 350°F] | \$\$\$\$ |

A = Excellent B = Good C = Fair

Accessories

Wilden's 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. Use only genuine Wilden accessories to keep your AODD pumps running at peak performance, meet warranty requirements and expand their operations and utility.

- SD Equalizer designed to minimize pressure variation on the discharge end of the pump, allowing for a consistent laminar/streamline flow
- Wil-Gard™ detects and notifies plant personnel when a diaphragm has ruptured to prevent further damage to pump
- Pump Cycle Monitor (PCMI) counts pump cycles by sensing the presence of the air valve spool
- Drum Pump Kit enables Wilden 6 mm (1/4") and 13 mm (1/2") pumps to adapt directly to drums for cost-effective, efficient liquid transfer





Repair Kits

Wilden wet and air repair kits for AODD pumps have been designed to help properly maintain the health and performance of your Wilden pump.

Always use only authentic Wilden Air Kits and Wet Kits when repairing or maintaining your Wilden products to preserve optimal performance and preserve factory warranties.

- Easily order online at your convenience
- Kits are maintained and shipped in sealed packaging
- Include all necessary components for repair

Wilden also offers retrofit kits which allow you to upgrade your existing pumps. Other spare parts outside of the traditional repair kits are available upon request.



Where Innovation Flows

As the global leader in air-operated double-diaphragm (AODD) pumps, Wilden has been exceeding customer expectations since 1955 thanks to a deep commitment to the pursuit of excellence, customer satisfaction, research and development, and market knowledge.

Wilden and our authorized distributor network are devoted to servicing your needs with world-class products, delivery and best-in-class expertise to ensure you have access to the latest pump technologies and fluid transfer services available for your industries, applications and processes.

Put us to the test and contact your local distributor today at:

wildendistributor.com

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