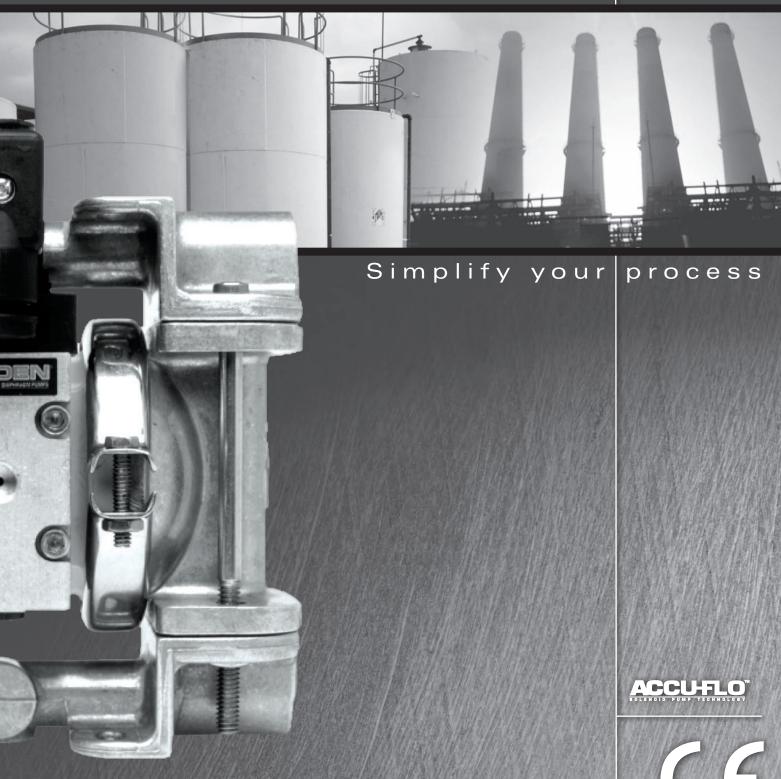
A.025

EOM

Engineering Operation & Maintenance

Original™ Series **METAL** Pumps



VILDEN

WIL-10030-E-03 TO REPLACE WIL-10030-E-02

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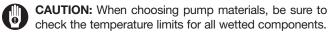
SECTION 1

A.025 METAL CAUTIONS – READ FIRST!

TEMPERATURE LIMITS:

PTFE Encap. 4.4°C to 148.9°C 40°F to 300°F Viton®

Buna-N -12.2°C to 82.2°C 10°F to 180°F Wil-Flex™ -40°C to 107.2°C -40°F to 225°F PTFE 4.4°C to 148.9°C 40°F to 300°F



CAUTION: Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Consult engineering guide for chemical compatibility and temperature limits.

CAUTION: Always wear safety glasses when operating pump. If diaphragm rupture occurs, material being pumped may be forced out air exhaust.

WARNING: Prevention of static sparking — If static sparking occurs, fire or explosion could result. Pump, valves, and containers must be properly grounded when handling flammable fluids and whenever discharge of static electricity is a hazard.

CAUTION: Do not exceed 8.6 bar (125 psig) air supply pressure.

CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from pump. Disconnect all intake, discharge and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container.

CAUTION: Blow out air line for 10 to 20 seconds before attaching to pump to make sure all pipe line debris is clear. Use an in-line air filter. A 5μ (micron) air filter is recommended.

NOTE: Tighten clamp bands prior to installation. Fittings may loosen during transportation.

NOTE: Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly.

CAUTION: Verify the chemical compatibility of the process and cleaning fluid to the pump's component materials in the Chemical Resistance Guide (see E4).

CAUTION: Only explosion proof (NEMA 7) solenoid valves should be used in areas where explosion proof equipment is required.

CAUTION: The A.025 Pump is not submersible.

CAUTION: Pump performance will be seriously hampered if pump is installed upside down.

WILDEN PUMP DESIGNATION SYSTEM

A.025 ORIGINAL™ METAL

6 mm (1/4") Pump Maximum Flow Rate: 13.3 lpm (3.5 gpm) A.025 X / XXXX X / XXX / XXX / XXX / XXX / XXXX / X

MATERIAL CODES

AIR SYSTEM BASE TYPE

B = ADAPTER BLOCK P = PRO-FLO®

T = TURBO-FLO™

WETTED PARTS & OUTER PISTON

AA = ALUMINUM / ALUMINUM

AZ = ALUMINUM / NO

PISTON

HH = ALLOY C / ALLOY C

HZ = ALLOY C / NO PISTON

SS = STAINLESS STEEL / STAINLESS STEEL

SZ = STAINLESS STEEL / NO PISTON

CENTER SECTION

PP = POLYPROPYLENE

LL = ACETAL

AIR VALVE

A = ALUMINUM (Available on

AIR SYSTEM BASE TYPE

A.025T only)

= ACETAL (Available for

A.025B and A.025P only)
P = POLYPROPYLENE (Available)

for A.025B and A.025P only)
U = UHMW PE (Available for

J = UHMW PE (Available for A.025B only)

DIAPHRAGMS

BNS = BUNA-N (Red Dot)

TNL = PTFE W/ NEOPRENE BACK-

UP 0-RING, IPD (White)

WFS = WIL-FLEXTM [Santoprene®

(Orange Dot)]

VALVE BALL

TF = PTFE (White)

VALVE SEAT

= ALUMINUM

H = ALLOYC

S = STAINLESS STEEL

VALVE SEAT O-RING

BN = BUNA-N

TF = PTFE (White)

TV = PTFE ENCAP. VITON®

WF = WIL-FLEXTM

[Santoprene®]

MANIFOLD O-RING

BN = BUNA-N

TF = PTFE (White)

SPECIALTY CODES

0150 Accu-Flo™, 24V DC coil

0151 Accu-Flo™, 24V AC / 12V DC coil

0153 Accu-Flo™, 24V AC / 12V DC x-proof coil

0154 Accu-Flo™, 24V DC x-proof coil 0155 Accu-Flo™, 110V coil

0156 Accu-FloTM, 110V AC x-proof coil

0157 Accu-Flo™, 24V DC x-proof coil, Intl.,

PTB approved

0169 Accu-Flo™, 110V AC coil, PFA coated hardware

0170 Accu-Flo™, 110V AC x-proof coil, PFA coated hardware

0180 Accu-Flo™, 24V AC / 12V DC coil, PFA coated hardware

0181 Accu-Flo™, 24V AC / 12V DC x-proof coil, PFA coated hardware 0184 Accu-Flo™, 24V DC coil, PFA coated hardware

 Accu-Flo[™], 24V DC x-proof coil, PFA coated hardware

0675 Accu-Flo™, 24V DC, inlet manifold, dual ported, NPT

0676 Accu-Flo™, 24V DC, inlet manifold, dual ported, BSPT

NOTE: MOST ELASTOMERIC MATERIALS USE COLORED DOTS FOR IDENTIFICATION.

THE THREE ACCU-FLO™ OPTIONS AVAILABLE:

1. AxT: This is the same Accu-Flo™ configuration that has been available from Wilden since March 1994. An aluminum solenoid valve is attached directly to a T-series center section and the shaft/inner piston configuration is altered.

2. AxP: This option uses a plastic (polypropylene or acetal) spacer that is assembled between the Pro-Flo® air valve and the Pro-Flo® center section. The same solenoid operator – coil assembly that is found on AxT pumps is assembled on the plastic spacer discussed above for electronic interface. This spacer together with the Pro-Flo® air valve replaces the aluminum air valve used in the AxT with a more chemically resistant option. Spacers will be available in the 1/4".

1/2", and 1" sizes. The use of the Pro-Flo® ADS provides additional flow in most applications (refer to EOM for details). The AxP provides the Pro-Flo® benefits of lower start-up pressure, reduced blow-by, and increased life.

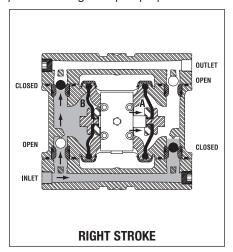
3. AxB: This option uses an Adapter Block in place of an air valve. A user supplied, 4-way pneumatic valve must be used in conjunction with this technology. This configuration enables the solenoid valve to be remotely installed, preventing chemical attack in very aggressive environments. Adapter Blocks are available for both the T and P series center sections in all pump sizes. (See EOM AxB for details.) Note: The "x" in the above Accu-FloTM descriptions are used in place of a pump model size. See Pump Designation System chart above.

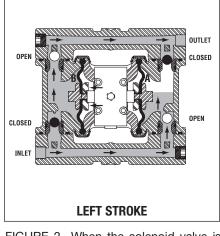
Viton® is a registered trademark of DuPont Dow Elastomers.

SECTION 3

THE WILDEN PUMP — HOW IT WORKS

The Wilden diaphragm pump is an air-operated, positive displacement, self-priming pump. These drawings show the flow pattern through the pump upon its initial stroke. It is assumed the pump has no fluid in it prior to its initial stroke.





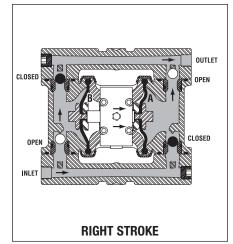


FIGURE 1 When the solenoid is energized, the air valve directs pressure to the back side of diaphragm A. The compressed air is applied directly to the liquid column separated by elastomeric diaphragms. The diaphragm acts as a membrane between the compressed air and the liquid, balancing the load and removing mechanical stress from The compressed the diaphragm. air moves the diaphragm away from the center section of the pump. The opposite diaphragm is pulled in by the shaft connected to the pressurized diaphragm. Diaphragm B is on its suction stroke; air behind the diaphragm has been forced out to the atmosphere through the exhaust port. The movement of diaphragm B toward the center section of the pump creates a vacuum within chamber B. Atmospheric pressure forces fluid into the inlet manifold forcing the inlet valve ball off of its seat. Liquid is free to move past the inlet valve ball and fill the liquid chamber (see shaded area).

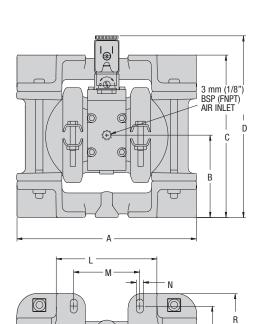
FIGURE 2 When the solenoid valve is deenergized, the air valve redirects pressurized air to the back side of diaphragm B. The pressurized air forces diaphragm B away from the center section while pulling diaphragm A to the center section. Diaphragm B is now on its discharge stroke. Diaphragm B forces the inlet valve ball onto its seat due to the hydraulic forces developed in the liquid chamber and manifold of the pump. These same hydraulic forces lift the discharge valve ball off of its seat, while the opposite discharge valve ball is forced onto its seat, forcing fluid to flow through the pump discharge. The movement of diaphragm A toward the center section of the pump creates a vacuum within liquid chamber A. Atmospheric pressure forces fluid into the inlet manifold of the pump. The inlet valve ball is forced off of its seat allowing the fluid being pumped to fill the liquid chamber.

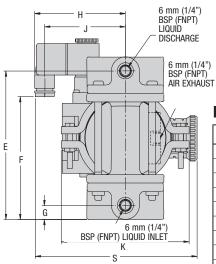
FIGURE 3 Once the solenoid valve is reenergized the air is directed to the back side of diaphragm A, which starts diaphragm B on its exhaust stroke. As the pump reaches its original starting point, each diaphragm has gone through one intake and one discharge stroke. This constitutes one complete pumping cycle. The pump may take several cycles to completely prime depending on the conditions of the application.

SECTION 4A

DIMENSIONAL DRAWING A.025T METAL ACCU-FLOTM

Р





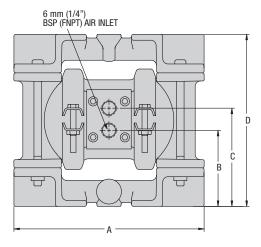
DIMENSIONS

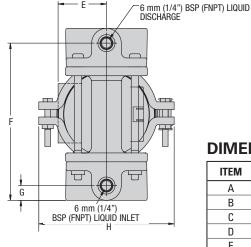
ITEM METRIC (mm)		STANDARD (inch)		
Α	165	6.5		
В	74	2.9		
С	147	5.8		
D	140	5.5		
Е	135	5.3		
F	107	4.2		
G	13	0.5		
Н	97	3.8		
J	74	2.9		
K	114	4.5		
L	91	3.6		
M	61	2.4		
N	8	0.3		
Р	46	1.8		
R	71	2.8		
S	147	5.8		

SECTION 4B

 $(\bigcirc$

DIMENSIONAL DRAWINGA.025B METAL (T-SERIES CENTER SECTION)



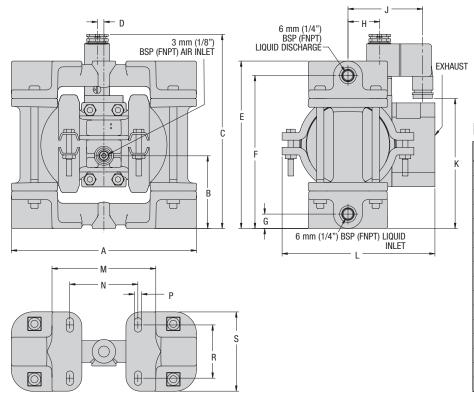


DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)	
Α	165	6.5	
В	66	2.6	
С	84	3.3	
D	147	5.8	
Е	41	1.6	
F	135	5.3	
G 13		0.5	
Н	114	4.5	
K	91	3.6	
L	61	2.4	
M	8	0.3	
N	46	1.8	
Р	71	2.8	

SECTION 4C

DIMENSIONAL DRAWING A.025P METAL ACCU-FLOTM

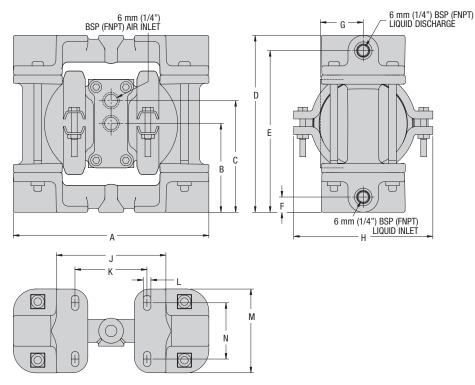


DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)	
Α	165	6.5	
В	64	2.5	
С	170	6.7	
D	8	0.3	
E	147	5.8	
F	135	5.3	
G	13	0.5	
Н	28	1.1	
J	66	2.6	
K	114	4.5	
L	135	5.3	
M	91	3.6	
N	61	2.4	
Р	8	0.3	
R	46	1.8	
S	71	2.8	

SECTION 4D

DIMENSIONAL DRAWINGA.025B METAL (P-SERIES CENTER SECTION)

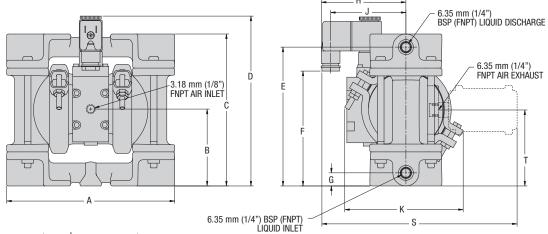


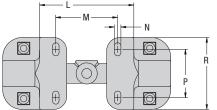
DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)	
Α	165	6.5	
В	74	2.9	
С	94	3.7	
D	147	5.8	
Е	135	5.3	
F	13	0.5	
G	36	1.4	
Н	114	4.5	
J	91	3.6	
K	61	2.4	
L	8	0.3	
M	71	2.8	
N	46	1.8	

SECTION 4E

DIMENSIONAL DRAWINGXA.025T METAL (T-SERIES CENTER SECTION)





DIMENSIONS

ITEM	METRIC (mm)	STANDARD (inch)		
Α	165	6.5		
В	74	2.9		
С	147	5.8		
D	165	6.5		
Е	135	5.3		
F	107	4.2		
G	13	0.5		
H 97		3.8		
J	J 74			
K	114 4.5			
L	91	3.6		
M	61	2.4		
N	8	0.3		
Р	46	1.8		
R 71		2.8		
S	191	7.5		
T	74	2.9		

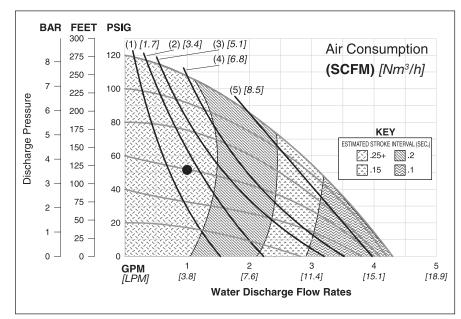
SECTION 5A

PERFORMANCE A.025T METAL RUBBER-FITTED

Height140 mm (5.5") Width165 mm (6.5")
Depth147 mm (5.8")
Est. Ship Weight Aluminum 2 kg (5 lbs)
Stainless Steel 5 kg (11 lbs)
Alloy C 5 kg (12 lbs)
Air Inlet 3 mm (1/8")
Inlet 6 mm (1/4")
Outlet 6 mm (1/4")
Suction Lift5.36 m (17.6' Dry)
10.02 m (32.9' Wet)
Displacement per stroke
0.241(006 gal)

Example: To pump 3.8 lpm (1 gpm) against a discharge pressure head of 3.6 bar (52 psig) requires 4.1 bar (60 psig) and 2.7 Nm³/h (1.6 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

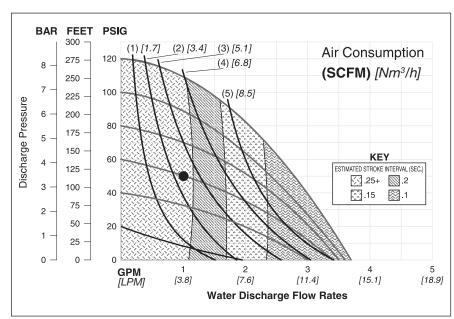
SECTION 5B

PERFORMANCE A.025T METAL PTFE-FITTED

Height140 mm (5.5	")
Width165 mm (6.5	")
Depth147 mm (5.8	")
Est. Ship Weight Aluminum 2 kg (5 lb	s)
Stainless Steel 5 kg (11 lb	s)
Alloy C 5 kg (12 lb	s)
Air Inlet 3 mm (1/8	")
Inlet 6 mm (1/4	
Outlet 6 mm (1/4	")
Suction Lift4.32 m (14.2' Dr	y)
10.02 m (32.9' We	t)
Displacement per stroke	

Example: To pump 3.8 lpm (1 gpm) against a discharge pressure head of 3.4 bar (50 psig) requires 4.1 bar (60 psig) and 4.08 Nm³/h (2.4 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were determined by pumping water.

For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SECTION 5C

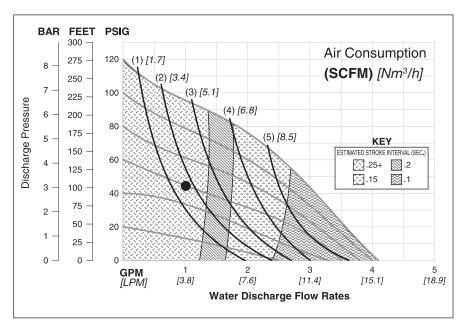
PERFORMANCE A.025P METAL RUBBER-FITTED

Height			
• • • • • • • • • • • • • • • • • • • •			
Est. Ship Weight Aluminum 2 kg (5 lbs)			
Stainless Steel 5 kg (11 lbs)			
Alloy C 5 kg (12 lbs)			
Air Inlet 3 mm (1/8")			
Inlet 6 mm (1/4")			
Outlet 6 mm (1/4")			
Suction Lift4.49 m (14.7' Dry)			
9.33 m (30.6' Wet)			
Displacement per stroke			
0.019 I (.005 gal.)			
Max. Flow Rate15.5 lpm (4.1 gpm)			
Max. Size Solids			
Example: To pump 3.8 lpm (1 gpm) against a discharge pressure head of 3.0 Bar (44 psig)			

Caution: Do not exceed 8.6 Bar (125 psig) air supply pressure.

(1.6 scfm) air consumption.

requires 4.1 Bar (60 psig) and 2.72 Nm3/h



Flow rates indicated on chart were determined by pumping water.

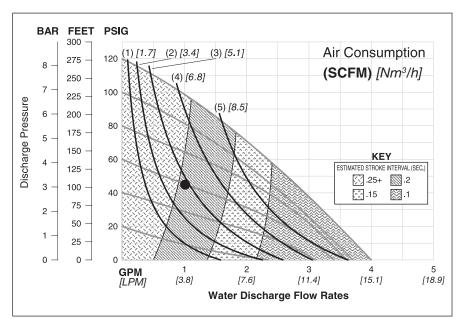
For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SECTION 5D

PERFORMANCE A.025P METAL PTFE-FITTED

Height170 mm (6.7")
Width165 mm (6.5")
Depth135 mm (5.3")
Est. Ship Weight Aluminum 2 kg (5 lbs)
Stainless Steel 5 kg (11 lbs)
Alloy C 5 kg (12 lbs)
Air Inlet 3 mm (1/8")
Inlet 6 mm (1/4")
Outlet 6 mm (1/4")
Suction Lift
9.33 m (30.6' Wet)
Displacement per stroke
0.02 I (.005 gal.)
Max. Flow Rate15.1 lpm (4.0 gpm)
Max. Size Solids
Example: To pump 3.8 lpm (1 gpm) against a
discharge pressure head of 3.1 bar (45 psig)
requires 4.1 bar (60 psig) and 4.93 Nm ³ /h
(2.9 scfm) air consumption.

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



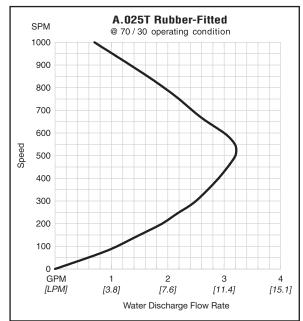
Flow rates indicated on chart were determined by pumping water.

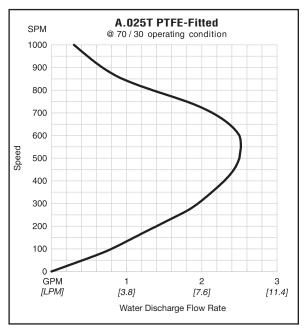
For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SECTION 6A

70/30 OPERATING CONDITION A.025T METAL ACCU-FLOTM

These curves demonstrate flow the created when the stroke rate modified under static air and fluid pressure condition. This curve can be applied to different pressure conditions to estimate the change in flow due to stroke rate.

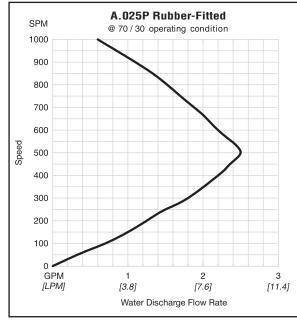


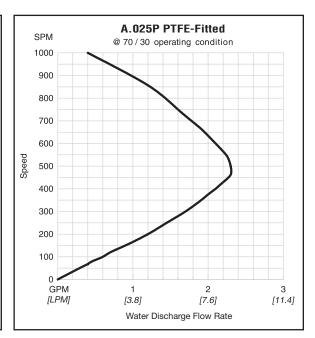


SECTION 6B

70/30 OPERATING CONDITION A.025P METAL ACCU-FLOTM

These curves demonstrate the flow created when the stroke rate is modified under static air and fluid pressure condition. This curve can be applied to different pressure conditions to estimate the change in flow due to stroke rate.





SECTION 7A

INSTALLATION

All Wilden pumps are manufactured with a variety of materials for the air distribution system, liquid path and elastomers. This variety is offered to satisfy the temperature, chemical compatibility, abrasion and flex life requirements for most applications. Consult manual for available materials and temperature limitations for this pump model.

For Accu-Flo™ models only, all wiring used to operate the pump should be placed and connected according to all applicable electrical codes. It is important that the wiring be of adequate gauge to carry the current required to operate the pump. In addition, it is necessary that the electrical power supply be large enough to supply the current required to operate the pump. Wiring should be above ground level if possible (in case of fluid spill or leakage), and all wiring and connections which could become wet or damp should be made watertight.

The suction pipe used for installation should be sized equal to, or greater than, the pump liquid inlet connection. This will minimize pump cavitation and potential blockages of the pump inlet. The discharge piping should also be sized equal to, or greater than, the pump liquid discharge connection. If the pump is to be used in a self-priming application, be sure that all connections are airtight and that the suction lift is within the pump's ability. (Consult manual for suction lift information.) Note: Materials of construction and elastomer materials have an effect on suction lift parameters.

INSTALLATION: Months of careful planning, study and selection efforts can result in unsatisfactory pump performance if installation details are left to chance.

Premature failure and long term dissatisfaction can be avoided if reasonable care is exercised throughout the installation process.

LOCATION: Noise, safety, and other logistical factors usually dictate that "utility" equipment be situated away from the production floor. Multiple installations with conflicting requirements can result in congested utility areas, leaving few choices for siting additional pumps.

Within the framework of these and other existing conditions, every pump should be located in such a way that four key factors are balanced against each other to maximum advantage.

- 1. ACCESS: First of all, the location should be accessible. If it is easy to reach the pump, maintenance personnel will have an easier time carrying out routine inspections and adjustments. Should major repairs become necessary, ease of access can play a key role in speeding the repair process and reducing total downtime.
- 2. AIR SUPPLY: Every pump location should have an air line large enough to supply the volume of air necessary to achieve the desired pumping rate. (Consult manual for performance information.) The use of an air filter before the pump will ensure that the majority of pipeline contaminants will be

eliminated. For best results, the pump should use an air filter, regulator system.

Sound levels are reduced below OSHA specifications using the standard Wilden muffler.

- 3. ELEVATION: Selecting a site that is well within the pump's dynamic lift capability will assure that a loss-of-prime condition will be avoided. In addition, pump efficiency can be adversely effected if proper attention is not given to site location.
- 4. PIPING: Final determination of the pump site should not be made until the piping problems of each possible location have been evaluated. The impact of current and future installations should be considered ahead of time to make sure that inadvertent restrictions are not created for any remaining sites.

The best choice possible will be a site involving the shortest and straightest hook-up of suction and discharge piping. Unnecessary elbows, bends, and fittings should be avoided. Pipe sizes should be selected so as to keep friction losses within practical limits. All piping should be supported independently of the pump to avoid damage. In addition, the piping should be aligned so as to avoid placing stress on the pump fittings.

Flexible hose can be installed to aid absorbing the forces created by the natural reciprocating action of the pump. If the pump is to be bolted down to a solid location, a mounting pad placed between the pump and the foundation will assist in minimizing pump vibration. Flexible connections between the pump and rigid piping will also assist in minimizing pump vibration. If quick-closing valves are installed at any point in the discharge system, or if pulsation within a system becomes a problem, a Wilden Equalizer® surge dampener should be installed to protect the pump, piping and gauges from surges and water hammer. Installation of a tee at the discharge of the pump will allow the addition of an Equalizer to the system at a later date without requiring piping modifications. Installation of inlet and discharge isolation valves are also recommended to make service and repair easier.

Pumps in service with a positive suction head are most efficient when pressure is limited to 0.4-0.7 bar (7-10 psig). Premature diaphragm failure may occur if positive suction exceeds these recommended pressures.

A STRAINER SHOULD BE USED ON THE SUCTION LINE OF THE SYSTEM IF THERE IS A POSSIBILITY THAT SOLIDS ENTERING THE PUMP MAY EXCEED THE PUMP'S SOLIDS HANDLING CAPABILITIES.

PLEASE READ AND FOLLOW ALL CAUTIONS NOTED IN THIS MANUAL.

Pump should be thoroughly flushed before installing into process line.

Blow out air line for 10 to 20 seconds before attaching pump to clear all pipe line debris.

SECTION 7B

OPERATING PRINCIPLES BEHIND ACCU-FLO™ PUMPS

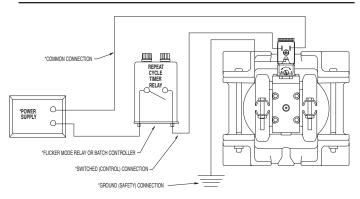
When the solenoid is unpowered, one air chamber is pressurized with air, while the opposite chamber is exhausted. When electric power is applied, the solenoid shifts, and the pressurized air chamber is exhausted while the opposite chamber is pressurized. By alternately applying and removing power, the solenoid-operated pump runs like a standard Wilden pump.

The speed of the pump is controlled electrically. Since each stroke is controlled by an electrical signal, the pump is ideal for batching and other electrically controlled dispensing applications.

Although the speed of the pump is controlled electrically, the air pressure is important. Air pressure displaces the fluid, and if the pressure is insufficient to complete the physical stroke before an electronic impulse signals the pump to shift, the stroke will not be completed, and the displacement per stroke will be reduced. This does not harm the unit in any way, but it may cause inaccuracy when attempting to batch specific quantities with high precision if this effect is not taken into account.

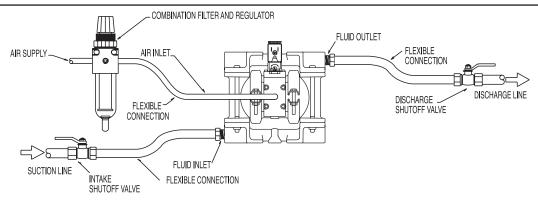
There are three coil voltage options available. One coil allows for 24V DC operation. The second coil option allows for operation with either 12V DC or 24V AC at 60 Hz and the third coil option allows for 110V AC operation.

ELECTRICAL CONNECTIONS



*SUPPLIED BY USER

PLUMBING CONNECTIONS



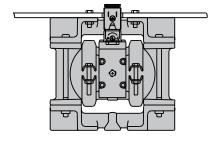
Accu-Flo™ pumps: Accu-Flo™ pumps function with solenoid valves and require an electrical control circuit to supply pulses. Under normal operating conditions, the control circuit is sufficient for starting and stopping the pump. However, the shut off valve (user supplied) installed in the air supply line can be used to stop the pump if necessary. Therefore, it should be located far enough away from the pumping equipment such that it can be reached safely in an emergency situation.

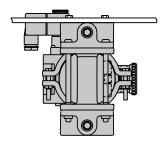
NOTE: In the event of a power failure, the shutoff valve should be closed, if the restarting of the pump is not desirable once power is regained.

NOTE: Wilden 6 mm (1/4") metal pumps come standard side ported with 2 NPT or BSP pipe plugs for side inlet and discharge porting. Center, top and bottom inlet and discharge porting are optional. Simply drill flat areas provided with a 7/16" drill bit for NPT or 11 mm drill bit for BSP and tap with NPT or BSP tap as appropriate.

NOTE: Wilden offers drum pump kits for the Metal P.025/A.025 pump (bung base and pick-up tube) for convenient drum pumping (P/N 50-9290-20/23/55).

NOTE: This pump can be mounted from the underside of a flat surface providing you more flexibility in tight areas/ systems.





CAUTION: Pump performance will be seriously hampered if pump is installed upside down.

SECTION 7C - ACCU-FLOTM

SUGGESTED OPERATION AND MAINTENANCE INSTRUCTIONS

For best results, the pumps should use an air filter and a regulator. The use of an air filter before the pump inlet will ensure that the majority of pipeline contaminants will be eliminated. The solenoid operated pump is permanently lubricated during assembly, and requires no additional lubrication under normal operation. If the unit runs under extreme conditions (continuous operation at high speeds), it may be necessary to relubricate the center block with a **Buna-N compatible NLGI Grade 2 grease** every 50 million cycles. Continuous lubrication with a compatible oil is not harmful, and will provide longer seal life, but it may flush all grease out of the unit.

The pump will not shift reliably unless the minimum supply pressure is provided. For the A.025T the minimum supply pressure for reliable operation is 2.7 bar (40 psig).

A muffler can be installed to reduce the amount of noise generated by the pump. Use of the specified Wilden muffler will reduce noise levels below OSHA specifications.

INSPECTIONS: Periodic inspections have been found to offer the best means for preventing unscheduled pump downtime.

RECORDS: When service is required, a record should be made of all necessary repairs and replacements. Over a period of time, such records can become a valuable tool for predicting and preventing future maintenance problems and unscheduled downtime. In addition, accurate records make it possible to identify pumps that are poorly suited to their applications.

SECTION 7D - ACCU-FLOTM TROUBLESHOOTING

Pump will not run.

- 1. Check for pressurized air at the inlet.
- Check air inlet and filter for debris.
- 3. Connect a test lamp to the two wires which run to pump and ensure that the lamp cycles on and off.
- 4. Make sure that the air valve manual override (small red knob on front of valve) is switched to the "0" position.
- 5. Check pilot pressure vent at the top of the operator/coil assembly to ensure that it is not clogged.
- 6. Check for a worn out air valve. If air continually blows out the exhaust in very large quantities, the air valve seals may be worn beyond their ability to function. In this case, the valve must be replaced.

NOTE: Before the valve is scrapped, it is possible that it may be saved by completely disassembling the valve, cleaning all components and relubricating the valve.

Pump runs but little or no fluid comes out.

- 1. Check that the discharge isolation valve is not closed.
- Check that the electronic signal is slow enough that the pump is able to complete each physical stroke before it is signaled to change direction. The time required to complete the stroke is determined by a variety of factors which include fluid viscosity and head pressure.
- Check for pump cavitation; slow pump speed down to match the thickness of the material being pumped.

- 4. Check for sticking ball check valves. If the material being pumped is not compatible with the pump elastomers, swelling may occur. Replace ball check valves and o-ring with the proper elastomers.
- Check to make sure that all suction connections are air tight, and that the clamp bands are properly tightened.

Pump rattles.

- 1. See RBG E9 Troubleshooting Guide.
- 2. Create false discharge head or suction lift.

Pump air passages blocked with ice.

Check for excessive moisture in compressed air line. As the air expands out the exhaust during the operation of the pump, water vapor entrapped in the compressed air can freeze and block the air passageways in the pump. If this occurs, it may be necessary to install a coalescing filter, an air dryer, or a hot air generator for the compressed air.

Air bubbles in pump discharge.

- 1. Check for ruptured diaphragm.
- Check tightness of clamp bands, and the integrity of the o-rings, especially at intake manifold.

Product comes out of the air exhaust.

- 1. Check for diaphragm rupture.
- 2. Check tightness of piston plates to shaft.

SECTION 8A

MODEL A.025 DIRECTIONS FOR DISASSEMBLY/REASSEMBLY

CAUTION: Before any maintenance or repair is attempted, the compressed air line to the pump should be disconnected and all air pressure allowed to bleed from the pump. Disconnect all intake, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be aware of any hazardous effects of contact with your process fluid.

The Wilden model A.025 is an air-operated, double-diaphragm pump with all wetted parts of aluminum, stainless steel and Alloy C. The single-piece center section, consisting of center block and air chambers, is molded from polypropylene. All o-rings used in the pump are of special materials and should only be replaced with factory-supplied parts.

PLEASE read all directions before starting disassembly.

TOOLS REQUIRED:

3/16" Hex key (Allen wrench)

3/8" Box Wrench

7/16" Wrench or socket for rubber fitted

5/16" Wrench

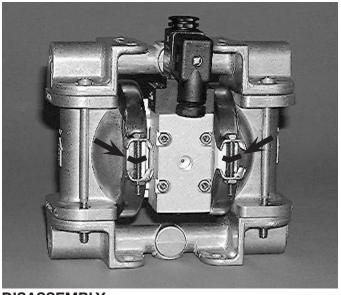
3/16" Rod or equivalent

O-Ring Pick

Adjustable Wrench

Vise equipped with soft jaws (such as plywood, plastic or other suitable material)

NOTE: The model used for these instructions incorporates rubber diaphragms and PTFE balls. Models with PTFE diaphragms are the same except where noted.

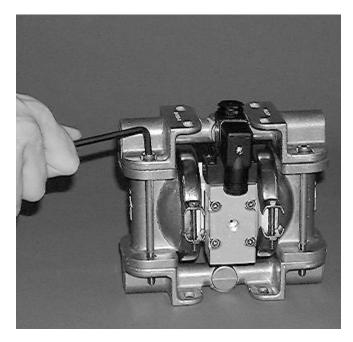


DISASSEMBLY:

Step 1.

Before actual disassembly is started, turn pump upside down and drain all liquid trapped in the pump into a suitable container. Be sure to use proper caution if liquid is corrosive or toxic. Mark each liquid chamber to its respective air chamber for easy alignment during reassembly.

Figure 1



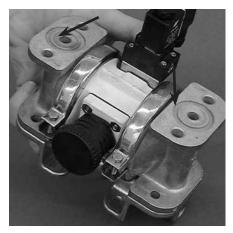


Using a 3/16" allen wrench, loosen the four manifold bolts. Remove the top and bottom manifolds.



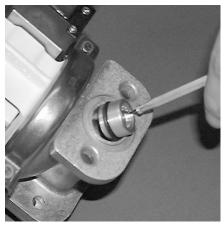
Step 3. Figure 3

Inspect both manifolds, manifold o-rings, and valve balls. If swelling, cracking or other damage is apparent, these parts must be replaced with genuine Wilden parts.





NOTE: Top valve seats of Aluminum A.025 pumps are cast in the liquid chamber.



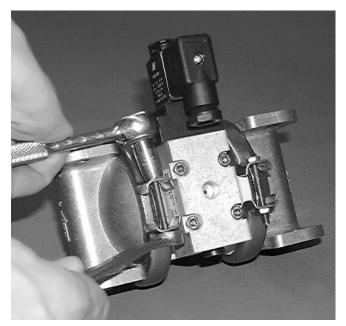
Step 4a. Figure 4a

To remove top and bottom valve seats on stainless steel and Alloy C pumps, use an o-ring pick and pull seats out from top to bottom or use 3/16" rod and push seats through.



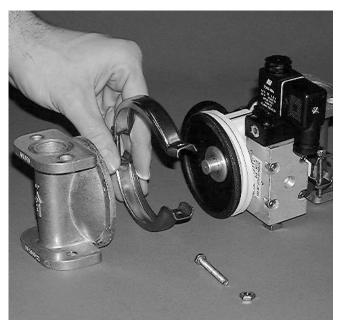
Step 5. Figure 5

Remove bottom manifold. Inspect the valve seat, valve seat o-ring, and valve ball. Check for nicks, gouges, chemical attack or abrasive wear. Replace worn parts with genuine Wilden parts for reliable performance. **NOTE:** Aluminum pumps employ 2 o-rings per valve seat.



Step 6. Figure 6

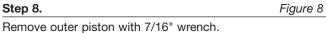
Loosen clamp band with 5/16" socket drive and 3/8" wrench. Remove screw and nut.



Step 7. Figure 7

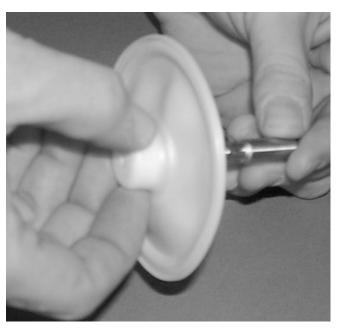
After clamp bands are removed, pull chambers away from center section.





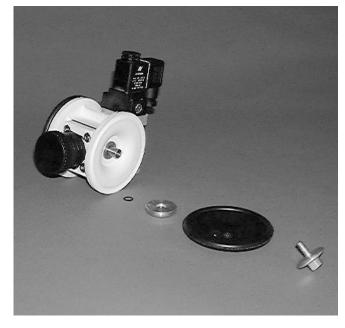
Step 9. Figure 9

Remove shaft and attached outer piston from the center section. Hold the diaphragm and remove outer piston with 7/16" wrench. If unable to remove diaphragm, place shaft in a vise equipped with soft jaws. **NOTE:** See Step 10 for PTFE fitted pumps.



Step 10. *Figure 10*

For PTFE fitted pumps diaphragms, remove diaphragm by turning in a counter-clockwise direction.



Step 11. Figure 11

Inspection of diaphragms, pistons, disc spring and shaft is now possible. **NOTE:** PTFE fitted pumps utilize a back up o-ring. Inspect all parts for wear and replace with genuine Wilden parts if necessary.

SECTION 8B

REASSEMBLY HINTS & TIPS

ASSEMBLY:

Upon performing applicable maintenance to the air distribution system, the pump can now be reassembled. Please refer to the disassembly instructions for photos and parts placement. To reassemble the pump, follow the disassembly instructions in reverse order. The air distribution system needs to be assembled first, then the diaphragms and finally the wetted path. Please find the applicable torque specifications on this page. The following tips will assist in the assembly process.

- Clean the inside of the center section shaft bushing to ensure no damage is done to new seals.
- Stainless bolts should be lubed to reduce the possibility of seizing during tightening.
- Apply a small amount of Loctite 242 to the internal threads of the shaft prior to reassembly.

TORQUE SPECIFICATIONS

Description of Part	Maximum Torque		
Air Valve, Solenoid	2.3 N•m (20 in-lbs)		
Outer Piston, Rubber and TPE Diaphragms	5.6 N•m (50 in-lbs)		
Clamp Band	2.3 N•m (20 in-lbs)		
Manifold Bolt	5.75 N•m (50 in-lbs)		





Sleep easier with



PRODUCTS:

(Air Operated Double Diaphragm Pumps)

- Warren-Rupp®
- ARO®
- Other

Spectrom is not your typical after market part supplier. We do not simply sell pump parts; we provide value added procurement solutions.

Our unique network enables us to purchase effectively, resulting in low cost solutions. We also know that low purchase price is not enough - quality, integrity and inventory are also important. Spectrom is structured to provide Pre and Post sales support, giving our customers value added application and pump knowledge.

Contact us to have a procurement solution developed for you. We don't just fit you into a generic system, we develop specific solutions that achieve results.

Spectrom will ship your order from our facility within 3 working days!

PUMP PARTS

(Low Cost)

- Diaphragms
- Valve balls
- Valve seats

KNOWLEDGE & SERVICE

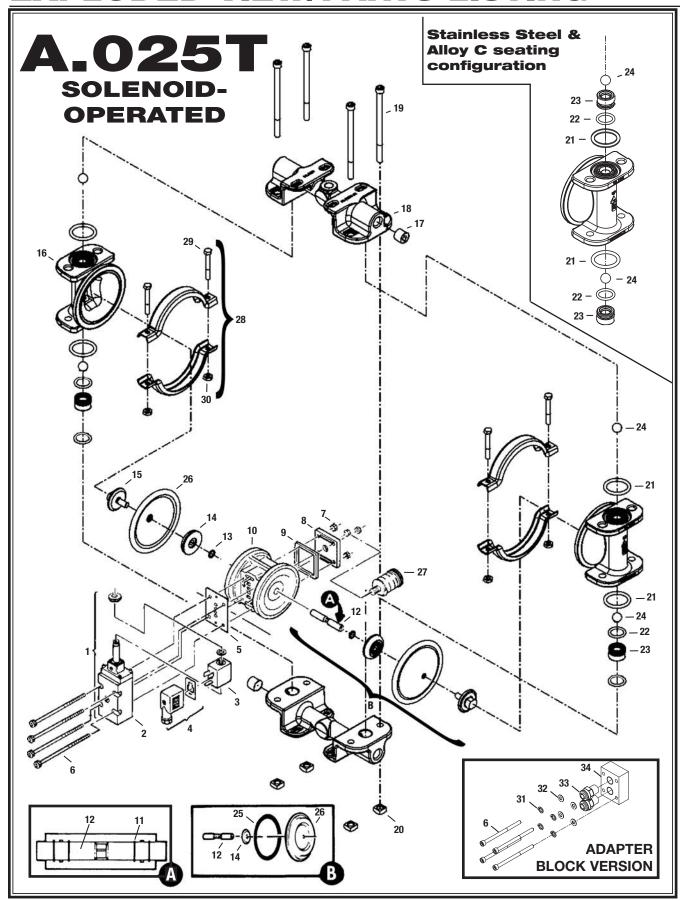
- Competitive pricing
- Delivery
- Service
- Inventory

WARNING: These parts may exhibit better life than OEM parts.



1-909-512-1261 www.spectromparts.com

EXPLODED VIEW/PARTS LISTING



A.025T Solenoid Operated — DC

ltem #	Description	Qty. per Pump	A.025T/AAPPA ALUMINUM P/N	A.025T/SSPPA STAINLESS STEEL P/N	A.025T/HHPPA Alloy C P/N
1	24 Volt DC Valve Assembly ¹	1	00-2000-99-150	00-2000-99-150	00-2000-99-150
2	Main Valve Body	1	00-2000-01-150	00-2000-01-150	00-2000-01-150
3	24 Volt DC Coil	1	00-2110-99-150	00-2110-99-150	00-2110-99-150
4	Terminal Connector	1	00-2130-99	00-2130-99	00-2130-99
5	Air Valve Gasket-Buna-N	1	00-2600-52	00-2600-52	00-2600-52
6	Air Valve Bolt	4	00-6000-03	00-6000-03	00-6000-03
7	Air Valve Nut	4	01-6400-03	01-6400-03	01-6400-03
8	Muffler Plate	1	00-3180-20	00-3180-20	00-3180-20
9	Muffler Plate Gasket-Buna-N	1	00-3500-52	00-3500-52	00-3500-52
10	Center Section	1	00-3150-20	00-3150-20	00-3150-20
11	Center Block O-Ring	4	00-3200-52	00-3200-52	00-3200-52
12	Shaft	1	00-3800-03	00-3800-03	00-3800-03
13	Disc Spring ²	2	00-6800-08	00-6800-08	00-6800-08
14	Inner Piston for Rubber/TPE	2	00-3700-01-150	00-3700-01-150	00-3700-01-150
	Inner Piston PTFE-fitted	2	00-3750-01-150	00-3750-01-150	00-3750-01-150
15	Outer Piston for Rubber/TPE	2	00-4570-08	00-4570-03	00-4570-04
16	Liquid Chamber	2	00-5000-01	00-5000-03	00-5000-04
17	Pipe Plug (NPT)	2	00-7010-08	00-7010-03	00-7010-04
	Pipe Plug (BSP)	2	00-7011-08	00-7011-03	00-7011-04
18	Manifold (NPT)	2	00-5050-01	00-5050-03	00-5050-04
	Manifold (BSP)	2	00-5051-01	00-5051-03	00-5051-04
19	Manifold Bolt	4	01-6000-03	01-6000-03	01-6000-03
20	Square Nut	4	00-6505-03	00-6505-03	00-6505-03
21	Manifold O-ring*	4	*	*	*
22	Valve Seat O-Ring*	4	*	*	*
23	Valve Seat	4	00-1120-01**	00-1120-03	00-1120-04
24	Valve Ball	4	00-1080-55	00-1080-55	00-1080-55
25	Back-up O-Ring³	2	00-1070-51	00-1070-51	00-1070-51
26	Diaphragm*	2	*	*	*
27	Muffler	1	00-3510-99	00-3510-99	00-3510-99
28	Clamp Band Assembly	2	00-7300-03	00-7300-03	00-7300-03
29	—Clamp Band Bolt	4	01-6100-03	01-6100-03	01-6100-03
30	—Clamp Band Nut	4	01-6400-03	01-6400-03	01-6400-03
31	Lock Washer⁴	4	00-6770-03-514	00-6770-03-514	00-6770-03-514
32	Flat Washer ⁴	4	00-6740-03-514	00-6740-03-514	00-6740-03-514
33	Air Fitting⁴	2	00-2170-20	00-2170-20	00-2170-20
34	Adapter Block ⁴	1	00-2150-XX	00-2150-XX	00-2150-XX

Vent Plug (Not Shown) 00-7020-17-514, Qty 1

All boldface items are primary wear parts.

ADAPTER BLOCK OPTIONS

Material	Part Number
Acetal	00-2150-13
Polypropylene	00-2150-20
UHMW PE	00-2150-32

^{*} Refer to Elastomer Options in Section 10.
** Quantity per pump is 2.

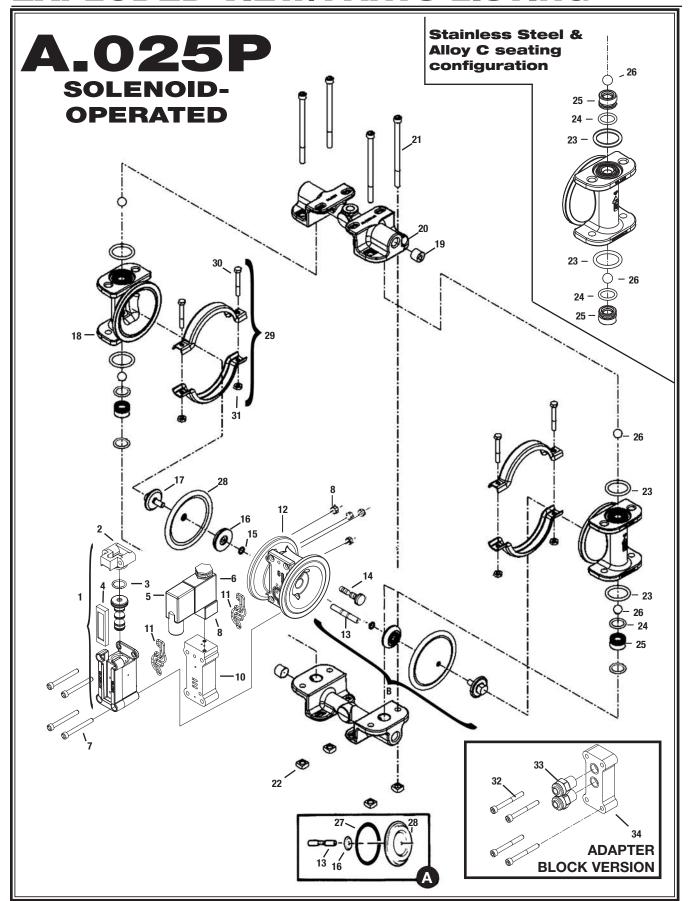
¹ Air Valve Assembly includes items 1, 2 and 3.

² Part used only on Rubber / TPE-fitted pumps.

³ Part used only on PTFE-fitted pumps.

⁴ Part used on Adapter Block Version

EXPLODED VIEW/PARTS LISTING



A.025P Solenoid Operated — DC

ltem #	Description	Qty. per Pump	A.025T/AAPPA ALUMINUM P/N	A.025T/SSPPA STAINLESS STEEL P/N	A.025T/HHPPA ALLOY C P/N
1	Pro-Flo® Air Valve Assembly¹	1	00-2000-20-700	00-2000-20-700	00-2000-20-700
2	Pro-Flo® Air Valve End Cap	1	00-2300-20-700	00-2300-20-700	00-2300-20-700
3	End Cap O-Ring	1	00-2390-52-700	00-2390-52-700	00-2390-52-700
4	Muffler Element	1	00-3240-26-700	00-3240-26-700	00-3240-26-700
5	Terminal Connector ²	1	00-2130-99	00-2130-99	00-2130-99
6	24 Volt DC Coil	1	00-2110-99-150	00-2110-99-150	00-2110-99-150
7	Air Valve Bolt	4	00-6000-03	00-6000-03	00-6000-03
8	Solenoid Operator	1	00-2122-99	00-2122-99	00-2122-99
9	Air Valve Nut	4	01-6400-03	01-6400-03	01-6400-03
10	Pro-Flo® Solenoid Spacer	1	00-2160-20	00-2160-20	00-2160-20
11	Air Valve Gasket	2	00-2600-52-700	00-2600-52-700	00-2600-52-700
12	Center Section	1	00-3150-20-700	00-3150-20-700	00-3150-20-700
13	Shaft	1	00-3800-99-700	00-3800-99-700	00-3800-99-700
14	Pilot Plug Assembly	1	00-2285-99	00-2285-99	00-2285-99
15	Disc Spring ³	2	00-6800-08	00-6800-08	00-6800-08
16	Inner Piston for Rubber/TPE	2	00-3700-01-150	00-3700-01-150	00-3700-01-150
	Inner Piston PTFE-fitted	2	00-3750-01-150	00-3750-01-150	00-3750-01-150
17	Outer Piston for Rubber/TPE	2	00-4570-08	00-4570-03	00-4570-04
18	Liquid Chamber	2	00-5000-01	00-5000-03	00-5000-04
19	Pipe Plug (NPT)	2	00-7010-08	00-7010-03	00-7010-04
	Pipe Plug (BSP)	2	00-7011-08	00-7011-03	00-7011-04
20	Manifold (NPT)	2	00-5050-01	00-5050-03	00-5050-04
	Manifold (BSP)	2	00-5051-01	00-5051-03	00-5051-04
21	Manifold Bolt	4	01-6000-03	01-6000-03	01-6000-03
22	Square Nut	4	00-6505-03	00-6505-03	00-6505-03
23	Manifold O-ring*	4	*	*	*
24	Valve Seat O-Ring*	4	*	*	*
25	Valve Seat	4	00-1120-01**	00-1120-03	00-1120-04
26	Valve Ball	4	00-1080-55	00-1080-55	00-1080-55
27	Back-up O-Ring ⁴	2	00-1070-51	00-1070-51	00-1070-51
28	Diaphragm*	2	*	*	*
29	Clamp Band Assembly	2	00-7300-03	00-7300-03	00-7300-03
30	Clamp Band Bolt	4	01-6100-03	01-6100-03	01-6100-03
31	Clamp Band Nut	4	01-6400-03	01-6400-03	01-6400-03
325	Air Valve Bolt	4	00-6000-03-700	00-6000-03-700	00-6000-03-700
335	Fitting, Air Inlet	2	00-2170-20	00-2170-20	00-2170-20
345	Adapter Block	1	00-2155-20	00-2155-20	00-2155-20

 $[\]ensuremath{^{*}}$ Refer to Elastomer Options in Section 10.

All boldface items are primary wear parts.

ADAPTER BLOCK & SPACER OPTIONS

Material	Adapter Block	Spacer
Acetal	00-2155-13	00-2160-13
Polypropylene	00-2155-20	00-2160-20

^{**} Quantity per pump is 2.

 $^{^{\}rm 1}\,\mbox{Air}$ Valve Assembly includes items 1, 2 and 3.

² Not required for explosion proof model.

³ Part used only on Rubber / TPE-fitted pumps.

⁴ Part used only on PTFE-fitted pumps.

⁵ Parts used on Adapter Block Version.

SECTION 9B, CONTINUED

Valve Assembly Options (Consists of Valve Body, Coil and Connector)

Pump Models Designating Specialty Code #	Part Number	Description
151	00-2000-99-151	24V AC / 12V DC Valve Assembly
153	00-2000-99-153	24V AC / 12V DC Valve Assembly (NEMA 7)*
150	00-2000-99-150	24V DC Valve Assembly
154	00-2000-99-154	24V DC Valve Assembly (NEMA 7)*
155	00-2000-99-155	110V AC Valve Assembly
156	00-2000-99-156	110V AC Valve Assembly (NEMA 7)*
157	00-2000-99-157	International 24 VDC Valve Assembly**

^{*}Not available for A.025P pumps

Item 1 Main Valve Body Options (T-series Center Section)

Part Number	Description
00-2000-01-150	Main Valve Body
00-2000-01-154	Main Valve Body (NEMA 7)

Item 2 Coil Options

Pump Models Designating Specialty Code #	Part Number	Description	
150	00-2110-99-150	24V DC Coil	
151	00-2110-99-151	24V AC Coil	
153	00-2110-99-153	24V AC, NEMA 7 Coil	
154	00-2110-99-154	24V DC, NEMA 7 Coil	
155	00-2110-99-155	110V AC Coil	
156	00-2110-99-156	110V AC NEMA 7 Coil	
157	00-2110-99-157	International 24V DC Coil**	

^{**} International 24v DC coil is explosion proof per PTB file #EX-91.C. 2027

SECTION 10A

ELASTOMER OPTIONS

A.025 Pumps

MATERIAL	DIAPHRAGM	BACK-UP DIAPH. O-RING	VALVE BALL	MANIFOLD O-RING	VALVE SEAT 0-RING
Wil-Flex™	00-1010-58	N/A	N/A	N/A	00-1200-581
Buna-N	00-1010-52	N/A	N/A	04-2390-52	00-1200-52
Viton®	N/A	00-1070-53	N/A	N/A	N/A
PTFE	00-1030-55	N/A	00-1080-55	00-1370-55	00-1200-551
PTFE-Encapsulated Viton®	N/A	N/A	N/A	N/A	00-1200-601
Neoprene	N/A	00-1070-51	N/A	N/A	N/A

¹ Wil-Flex and PTFE encapsulated Viton® core valve seat o-rings available on stainless steel and Alloy C only.

SECTION 10B

ELECTRICAL INFORMATION

NEMA 41 / UL / CSA

	Voltage ±10%			Voltage ±10% Current (/					Current (A)		
		AC				Α	C				
	DC			Power (W)	DC			Resistivity			
Part Number		60 Hz	50 Hz	±10%		Inrush	Holding	(Ω)			
00-2110-99-150	24	48	44	4.8	.20	.20	.20	121			
00-2110-99-151	12	24	22	4.8	.40	.40	.40	32			
00-2110-99-155	60	120	110	4.8	.08	.08	.06	840			

NEMA 7 / UL / CSA

	Voltage ±10%				Current (A)			
	AC				Α	C		
	DC			Power (W)	DC			Resistivity
Part Number		60 Hz	50 Hz	±10%		Inrush	Holding	(Ω)
00-2110-99-153	12	24	22	7	.60	.55	.32	19
00-2110-99-154	24	48	44	7	.30	.30	.18	75
00-2110-99-156	60	120	110	7	.12	.13	.06	475

INTERNATIONAL EXPLOSION PROOF / CENELEC / PTB FILE # EX-91.C.2027

			Curre	Current (A)	
	DC Voltage ±10%	Power (W)			Resistivity
Part Number		±10%	Inrush	Holding	(Ω)
00-2110-99-1572	24	3.3	.135	.135	177

 $^{^{\}rm 1}\text{NEMA}$ 4 and IEC 144/855420 I.P. 66 for "Dust-tight, watertight corrosion resistant."

²Meets European standards and regulations, Cenelec/PTB file # EX-91.C.2027.



Your Solutions Wrapped Up





Program Details:

- Elastomer & ADS Repair Kits
- All Sizes Available
- PTFE, Rubber & TPE Elastomers
- One Part Number Simplifies Inventory
- Eliminates Order Errors
- Reduces Re-Build Time
- Rejuvenates Your Pump

NOTE: See Section 9.



22069 VAN BUREN STREET • GRAND TERRACE, CA 92313-5607 (909) 422-1730 • FAX (909) 783-3440 www.wildenpump.com



WARRANTY

Each and every product manufactured by Wilden Pump and Engineering, LLC is built to meet the highest standards of quality. Every pump is functionally tested to insure integrity of operation.

Wilden Pump and Engineering, LLC warrants that pumps, accessories and parts manufactured or supplied by it to be free from defects in material and workmanship for a period of five (5) years from date of installation or six (6) years from date of manufacture, whichever comes first. Failure due to normal wear, misapplication, or abuse is, of course, excluded from this warranty.

Since the use of Wilden pumps and parts is beyond our control, we cannot guarantee the suitability of any pump or part for a particular application and Wilden Pump and Engineering, LLC shall not be liable for any consequential damage or expense arising from the use or misuse of its products on any application. Responsibility is limited solely to replacement or repair of defective Wilden pumps and parts.

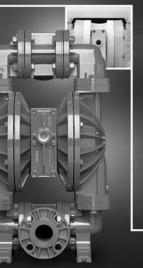
All decisions as to the cause of failure are the sole determination of Wilden Pump and Engineering, LLC.

Prior approval must be obtained from Wilden for return of any items for warranty consideration and must be accompanied by the appropriate MSDS for the product(s) involved. A Return Goods Tag, obtained from an authorized Wilden distributor, must be included with the items which must be shipped freight prepaid.

The foregoing warranty is exclusive and in lieu of all other warranties expressed or implied (whether written or oral) including all implied warranties of merchantability and fitness for any particular purpose. No distributor or other person is authorized to assume any liability or obligation for Wilden Pump and Engineering, LLC other than expressly provided herein.

PLEASE PRINT OR TYPE AND FAX TO WILDEN

PUMP INFORMATION			
Item #	Serial #		
Company Where Purchased			
YOUR INFORMATION			
Company Name			
Industry			
Name		Title	
Street Address			
City	State	Postal Code	Country
Telephone Fax	E-mail		Web Address
Number of pumps in facility?	Number of W	/ilden pumps?	
Types of pumps in facility (check all that apply): Diaphragr	m Centrif	ugal 🗌 Gear	Submersible Lobe
Other			
Media being pumped?			
How did you hear of Wilden Pump?	Trade Show	w Interr	net/E-mail Distributor
Other			



AUVANGEŲ

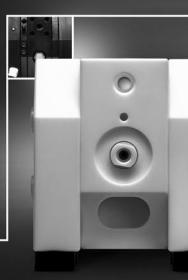
Advance Your Process

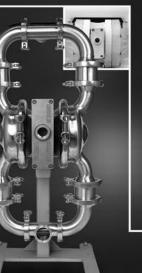
Advanced wetted path designs
Lower the cost of operation
Maximize product containment
Longer MTBF (Mean Time Between Failures)
Enhanced internal clearance
The result of advanced thought



Enrich Your Process

Simplicity of design
Unique Technology
Reliable, leak-free & quiet
Validated & certified
Intrinsically safe
The result of unique thought





SANIFLO

Refine Your Process

Designed for sanitary applications
Minimize product degradation
Improved production yields
Easy to inspect, clean & assemble
Minimized water requirements
The result of progressive thought



Maximize Your Process

Electronic control & monitoring
Level control & containment
Pulsation dampening
Drum unloading systems
Complete system solutions
The result of innovative thought





ORIGINAL S E R I E S

Simplify Your Process

Long standing design simplicity
Portable & submersible
Variable connection options
Fewest parts in industry
Solutions since 1955
The result of original thought



Your Local Authorized Distributor:



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