



OWNER'S MANUAL

Stainless Steel Rotary Action Drum Pump

801A

June 2022

Description

The Alemlube 801A is a stainless steel manually operated rotary action drum pump specifically designed and engineered for the transfer of a wide range of chemicals and solvents contained in 205 litre or 60 litre drums. Heavy duty, durable, rugged and robust the 801A drum pump with its ryton rotor, 304 stainless steel inlet & outlet tubes and 304 stainless steel & teflon wetted parts provides excellent chemical compatibility. Capable of flow rates of up to 18L/min or 0.3L per rotation the 801A stainless steel rotary action drum pump from Alemlube offers years of dependable and trouble free service with periodical general maintenance. Ideal for all on demand fluid pumping requirements when reliability is paramount.

Specifications

Uses:	Low viscosity chemicals, lacquers, mild acids, herbicides, pesticides and mild detergents
Discharge Quantity:	Up to 18L/min or 0.3L rotation
Materials:	304 stainless steel inlet & outlet tubes and 304 stainless steel & teflon wetted parts
Delivery Rate:	Up to 18L/min or 0.3L rotation
Suitable for use with:	60L and 205L drums
Working Temp:	140°F / 60°C
Mounting:	2" MNPT bung adapter
Maximum Viscosity:	5000 SSU

Assembly and Installation

1. Contact your chemical or fluid supplier to check for compatibility with pump prior to installation and operation.
2. Screw discharge spout into pump body outlet using Teflon tape provided or equivalent sealant tape. Do not use paste pipe sealant.
3. Slide handle over handle shaft and assemble to crank arm using the hex nut supplied. Attach entire crank arm subassembly, including handle, handle shaft, and hex nut, onto pump shaft taking care to align setscrew to indent in rotor shaft.
4. Thread suction tube into pump inlet. Thread suction tube into suction tube. Thread tail pipe onto suction tube section. Use Teflon tape provided or equivalent sealant tape to seal suction tube threaded connections. Do not use paste pipe sealant.
5. Thread bung adapter into drum.
6. Insert pump and suction tube assembly into bung adapter and hand-tighten bung adapter setscrew. Be sure to set pump and suction tube assembly so that the suction tube is at the desired depth in the barrel and is not blocked.

Operation

1. To begin pumping fluid, rotate handle clockwise several times making complete revolutions until fluid begins to flow. Several revolutions will be made with no fluid dispensed as pump needs to prime. Once primed, fluid flow begins as handle is rotated.
2. For siphoning or draining fluid back into barrel, place handle in the straight down position.
3. To stop siphoning and maintain suction or prime, leave handle in horizontal position.

Maintenance

Regularly check pump and suction tubes for leaks. Leaks in the suction line or in pump housing will cause inefficient pumping and loss of prime.



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Warnings & Safety Issues

It is the responsibility of the user to operate the pump in conformance with OSHA rules for dispensing liquids. Pump containers should be grounded when using with flammable liquids to avoid static electricity. Pump should be washed out before usage since processing lubricants could contaminate the fluid.

1. When using a hand pump (especially when pumping flammable, combustible or hazardous liquids) follow all electrical and safety codes, as well as the OH&S standards.
2. Know the pump application, limitations, and potential hazards. The "WARNING" statements indicate potentially hazardous conditions for the operator or equipment. **TAKE NECESSARY STEPS TO PROTECT PERSONNEL AND EQUIPMENT.** Pump should only be used with liquids compatible with pump component materials. Consult PUMP CHEMICAL COMPATIBILITY CHART and PUMP SPECIFICATIONS. Also, the chemical supplier should be consulted regarding any questions of chemical compatibility, proper and safe use, and handling of chemicals. Misapplication of pump or use of incompatible liquids will void warranty.

WARNING

In order to properly use this product familiarise yourself with this pump and also with the liquid (chemical, etc.) that is going to be pumped through the unit. Although this pump is suitable for many liquids, it is not suitable for all liquids!

3. Pumping hazardous, flammable, or combustible liquids, should only be done in buildings, rooms, or areas suited for this purpose.

WARNING

When filling cans, drums, etc. with combustible or flammable liquids, both container pumping from and container pumping to, should be bonded and grounded to dissipate possible accumulations of static electricity, and minimise sparks caused by static electricity.

WARNING

Removal of outer garments in work areas where there may be flammable or explosive liquids, which are ignitable with low electrical energy, can be fatal and/or cause property damage.

4. The "WARNING" & instructions for gasoline below pertain not only to gasoline, but to any flammable, combustible or hazardous fluid.

WARNING

Gasoline is a highly flammable fuel. The improper use, handling, or storage of gasoline can be dangerous.

Prevent accidents by following these safety rules:

- a. Use gasoline only as fuel, never as a cleaning fluid.
 - b. Use only an approved container to hold or store gasoline.
Never store gasoline in familiar containers such as milk containers or soda pop bottles.
 - c. Store gasoline in a cool location, out of the reach of children. Never store gasoline near heat or an open flame.
 - d. Provide a fire extinguisher nearby when working with gasoline. Be sure extinguisher is in operating condition – check the pressure gauge or indicator. Be familiar with its proper use. Consult local fire department for the correct type of extinguisher for your application. Extinguishers rated ABC by the National Fire Protection Association are appropriate for most applications.
 - e. Provide positive shut-off valves on all permanent fuel supplies.
Fuel lines must be of steel piping, adequately secured, and free from leaks.
 - f. Provide adequate ventilation, and clean up any spills when handling or pumping flammable liquids.
 - g. **POSITIVELY NO SMOKING!**
5. The "WARNING" and instructions for gasoline below pertain not only to gasoline, but to any flammable, combustible or hazardous fluid.
 6. Secure the discharge line before starting the pump.
An unsecured discharge line will slip, possibly causing personal injury and/or property damage.
 7. Do not overtighten threaded fittings. One full turn past hand tight is usually enough to prevent leakage.
Teflon ~ sealant tape is provided and should be used on all threaded joints, including the spout.
 8. Check hoses for weak or worn condition before each use, making certain that all connections are secure.
 9. Periodically inspect pump and system components. Perform routine maintenance as required.
 10. Drain all liquids from the system before servicing.

WARNING

Any pump used to transfer flammable liquids must be stored in a well ventilated area after use.

Personal Safety

1. Wear safety glasses at all times when working with pump.
2. Wear a face shield, proper apparel and suitable respiratory equipment when pumping hazardous chemicals.
3. Keep work area clean, uncluttered, and properly lighted. Replace all unused tools and equipment.
4. Keep visitors at a safe distance from the work area.
5. Make workshop childproof with padlocks, master switches, and by removing starter keys.

WARNING

Failure to follow all General Safety Information can result in a fatality, personal injury and/or property damage!

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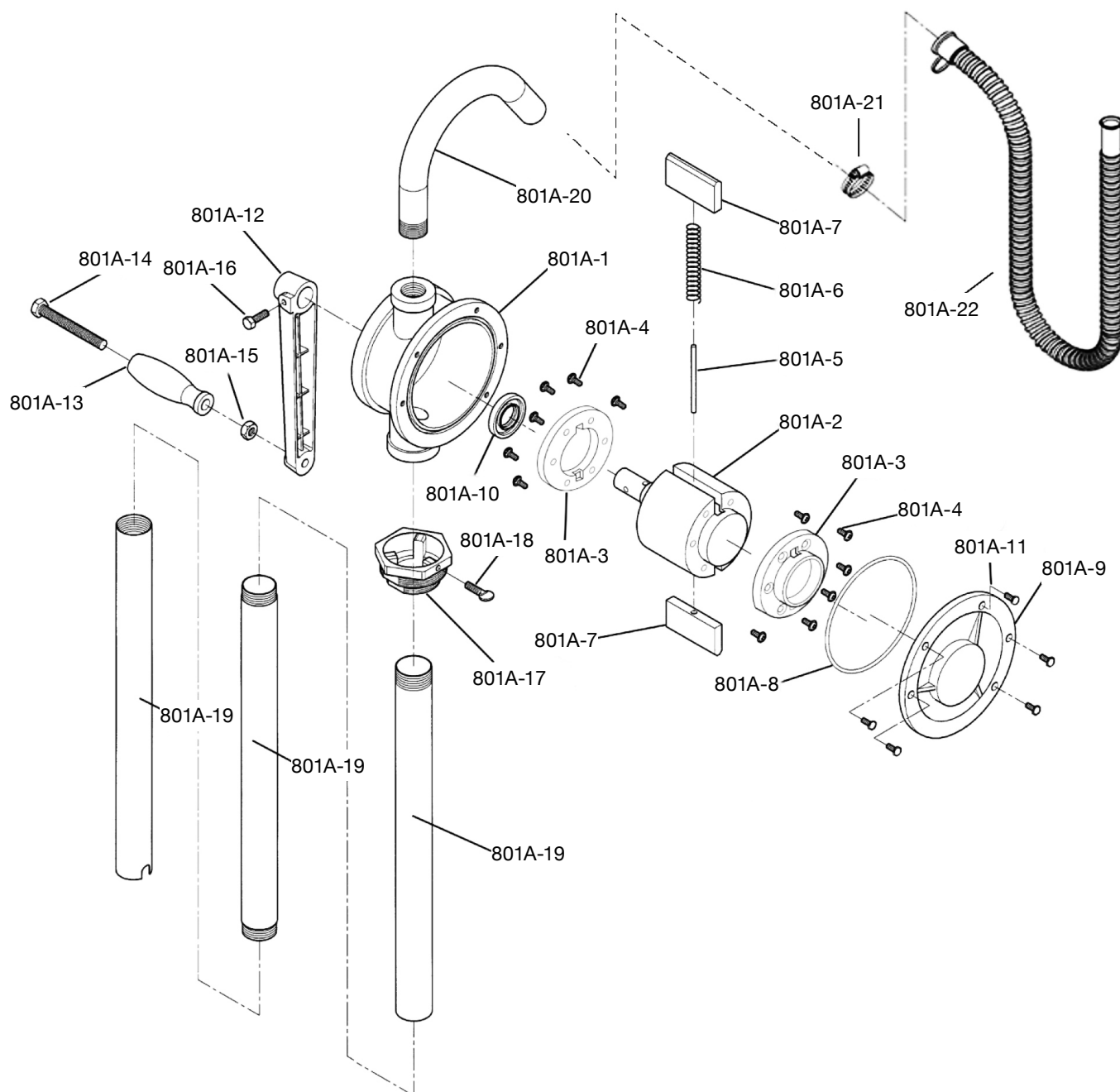
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Parts & Drawing Breakdown 801A



Ordering Spare Parts Parts List – Part No. 801A

Part No.	Description	Qty
801A-1	Cylinder	1
801A-2	Rotor	1
801A-3	Rotor cover	2
801A-4	Screws	12
801A-5	Pin-Vane	1
801A-6	Spring	1
801A-7	Vane	2
801A-8	O-Ring	1
801A-9	Head	1
801A-10	seal	1
801A-11	Screws	8

Part No.	Description	Qty
801A-12	Crank Arm	1
801A-13	Handle	1
801A-14	Handle rivet	1
801A-15	Nut	1
801A-16	Hexagon bolt	1
801A-17	Adapter Screw	1
801A-18	Thumb Screw	1
801A-19	Suction tube	3
801A-20	Spout	1
801A-21	Hose Clamp	1
801A-22	PE Hose	1

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Troubleshooting

Problem	Remedy
Insufficient Flow	1. Clogged, collapsed, or undersized suction tube and/or filter Pumps are intended for use with supplied rigid line suction line and/or filter (where applicable). Verify line and/or filter are clean, not damaged, and the correct size for suction port connection 2. Also see below "Pump does not prime". Check and repair as necessary
Pump does not prime NOTE: To aid priming, fill pump casing through discharge port prior to operation	*1. Unsuitable suction line Pumps are intended for use with the suction line supplied. Long or collapsible suction lines may slow or stop priming. Use short length rigid tubing similar in diameter to suction port. (Maximum pump height above liquid level is 36 inches) ^A 2. Shifted or worn rotor Loosen all cover bolts. View pump from side with suction/discharge ports in vertical position and on right-hand side. Reposition rotor by grasping covers and sliding towards 3 o'clock position. Do not use excessive force. Hold in position and retighten cover bolts 3. Suction line above liquid Suction line end must remain completely below fluid surface 4. Damaged/worn pump parts Remove pump cover and inspect for broken or worn parts. Components should have smooth finish, no large grooves or voids. Replace damaged parts 5. Pump air leakage Inspect pump cover(s) and seals for leaks. Tighten fasteners and replace gaskets and/or seals 6. Suction line air leakage Seal all threaded suction line connections with Teflon™ tape or equivalent sealant 7. Pump speed too slow Rotate pump handle more rapidly until pump primes 8. Clogged suction line and/or filter Clean suction line and/or filter
Handle difficult or impossible to move	1. Pump has not been used for an extended time Remove pump cover and inspect for deposits on components and or corroded parts. Clean or replace parts. Flush pump with appropriate solvent prior to long periods without use 2. Remove pump cover and inspect internal parts. Replace worn or damaged components

(*) For pumps supplied without suction/discharge lines.

(^A) Applies only to vane (not lobe or piston) type pumps.

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