



Operation and Maintenance Manual

Gast® Lubricated 23 Series Rotary Vane Vacuum Pumps and Compressors

Includes laboratory models.

Including, but not limited to:

0523-XXX-G588NDX and 1023-XXX-G608NEX

(XXX denotes up to 4 alphanumeric characters)



Additional Languages.



Declaration of Conformity.

gastmfg.com

Dear Customer,

Thank you for purchasing this Gast® lubricated rotary vane vacuum pump and/or compressor. It's intended to be used in various laboratory, commercial, and industrial applications where compressed air or a vacuum is required.



WARNING



PLEASE READ THIS MANUAL COMPLETELY BEFORE INSTALLING AND USING THIS PRODUCT. SAVE THIS MANUAL FOR FUTURE REFERENCE AND KEEP IN THE VICINITY OF THE PRODUCT.

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SAFETY

Please note that pictures and figures referenced in the text can be found throughout the manual.

Your safety and the safety of others is extremely important. We have provided many important safety messages in this manual and on your product. Always read and obey all safety messages.

 This is the safety alert symbol. This symbol alerts you to hazards that can kill or hurt you and others. The safety alert symbol and the words “DANGER” and “WARNING” will precede all safety messages. Definitions for these words are provided below.

DANGER

YOU **WILL** BE KILLED OR SERIOUSLY INJURED
IF YOU DON'T FOLLOW INSTRUCTIONS.

WARNING

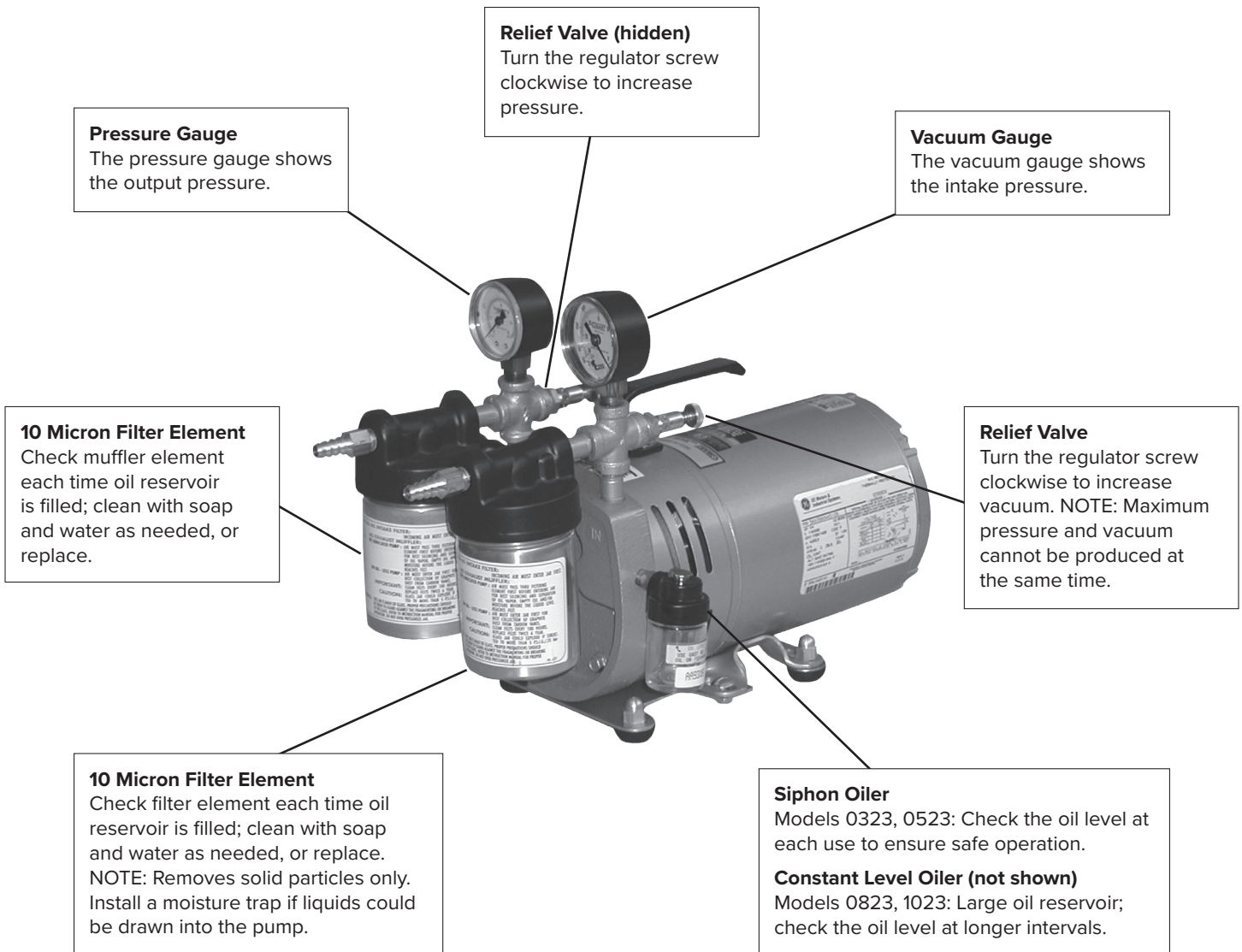
YOU **CAN** BE KILLED OR SERIOUSLY INJURED
IF YOU DON'T FOLLOW INSTRUCTIONS.

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the safety instructions are not followed.

Product Use Criteria:

- Operate at 32°F - 104°F (0°C - 40°C).
- Protect unit from dirt and moisture.
- Protect all surrounding items from hot exhaust air. This exhaust air can become very hot.
- Product is not a consumer product and is for commercial applications only.
- Do not pump flammable or explosive gases or use in an atmosphere that contains such gases.
- Corrosive gases and particulate material will damage unit. Water vapor, oil-based contaminants or other liquids must be filtered out.
- Consult your Gast® distributor/representative before using at high altitudes. Performance will adversely be affected at high altitudes.
- Use Gast® #AD220 or a detergent SAE#10 automotive engine oil for lubricating.
- Wear eye protection.
- Must only be used for pumping/evacuating.
- Do not pump any other gases or liquids.
- Protect from inclement weather. Indoor use only.
- Do not obtain higher pressures or vacuums than recommended.
- Damage will occur if used at higher speeds than recommended.

SYSTEM FEATURES



INSTALLATION

WARNING



**ELECTRICAL SHOCK
HAZARD.**

Disconnect electrical power at the circuit breaker or fuse box before installing this product.

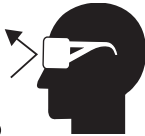
Install this product where it will not come into contact with water or other liquids.

Install this product where it will be weather protected.

Electrically ground this product.

Failure to follow these instructions can result in death, fire, or electrical shock.

WARNING



INJURY HAZARD.

Keep fingers and objects away from rotating parts and openings.

Do not stand in line with air stream.

Product surfaces may become very hot during operation, allow product surfaces to cool before handling.

Wear eye protection.

Install proper safety guards as needed.

Failure to follow these instructions can result in burns, eye injury, or other serious injury.

WARNING

Blocking air flow over the product in any way can cause the product to overheat.

Do not place objects, fingers, metal tools, etc. through the ventilation holes.

WARNING

Some models are equipped with glass jars. Proper measures should be taken to guard against glass fragmenting or breaking if an alternative material is not used. If hazard is ignored, severe personal injury can occur.

Correct installation is your responsibility. Make sure you have the proper installation conditions and that installation clearances do not block air flow. Proper guards should be installed to prevent contact with moveable parts of this pump. Do not lift the unit by the fan shroud.

Transportation and Storage Conditions:

- Temperature: -25°C (-13°F) to 55°C (131°F)
- Relative humidity: Maximum of 95%
- Keep the system dry at all times.
- Do not stack units during shipment, installation, or while being used.

Unpacking

1. Open the carton and remove any packaging inserts.
2. Visually inspect the entire compressor for shipping damage and verify any applicable accessories have been included.
 - a. If the contents were damaged during shipping, contact the freight carrier to file a claim.
 - b. If parts are missing, contact the supplier.
3. Use caution when removing the system from the remaining packaging. Retain the packaging material for future use if necessary.
4. Install the rubber feet if applicable.

Lift the unit by the motor shell, housing, handle, or motor foot (depending on design). Do not lift unit by shroud, filters, or mufflers. These parts are not designed to support the weight of the unit.

Mounting

Position the product on a stable, rigid operating surface and use shock mounts to reduce noise and vibration. It is also essential to maintain stability during use, assembly, transport, and servicing.

Plumbing

To prevent air flow restriction, use pipe and fittings that are the same size or larger than the threaded ports of the pump. The ports are marked "IN" and "OUT". If the distance is great, use lines with a larger diameter than the connections. Give lines a uniform slope, place drain cock at low point, and avoid extra elbows. For ease of servicing, use a union or hose with clamps near the pump (a hose helps eliminate noise and vibration). If a vacuum/pressure supply tank is used, slope the line towards tank, provide a drain at the bottom, and place a check valve between the tank and pump so the pump will not run backwards when turned off.

Moisture Trap

Liquid or moisture vapor will damage the pump. Install a moisture trap if liquids could be drawn into the pump. For the correct type and size, contact your local distributor or the factory.

INSTALLATION

Accessories

Intake and exhaust filters are external to the pump and will provide adequate filtration for most applications. Check filters periodically and replace when necessary. Consult a Gast® representative for additional filter recommendations. Install relief valves and gauges at the inlet or outlet, or both, to monitor performance. Check valves may be required to prevent backstreaming through the pump.

For pressure applications, always fit a relief valve set to the maximum working pressure but never higher than the maximum permitted pressure specified on the technical data sheet.

For vacuum applications, it is recommended that a relief valve is fitted set to the duty vacuum required. When an intermittent vacuum is advised, the product is only permitted to operate at this level for short cyclic periods.

Motor Control

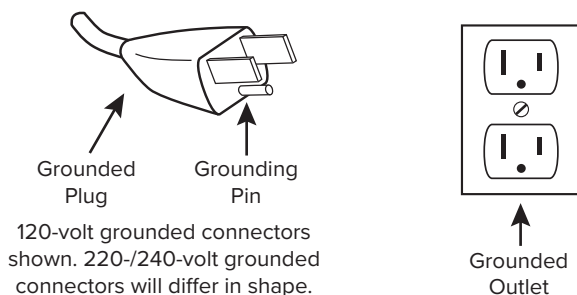
It is your responsibility to contact a qualified electrician and assure that the electrical installation is adequate and in conformance with all national and local codes and ordinances. The metal capacitor must be grounded.

Determine the correct overload setting required to protect the motor (see motor starter manufacturer's recommendations). Select fuses, motor protective switches or thermal protective switches to provide protection. Fuses act as short circuit protection for the motor, not as protection against overload. Incoming line fuses must be able to withstand the motor's starting current. Motor starters with thermal-magnetic overload or circuit breakers protect motor from overload or reduced voltage conditions.

The wiring diagram supplied with the product provides required electrical information. Check that power source is correct to properly operate the dual-voltage motors.

Model with a Power Supply Cord

This product must be grounded. For either 120-volt or 220/240-volt circuits connect power supply cord grounding plug to a matching grounded outlet. Do not use an adapter. See diagram below.



In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product may be equipped with a power supply cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are not sure whether the product is properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Model that is Permanently Wired

This product must be connected to a grounded, metallic, permanent wiring system, or an equipment grounding terminal or lead on the product.

Power supply wiring must conform to all required safety codes and be installed by a qualified person. Check that supply voltage agrees with that listed on product nameplate.

Extension Cords

Use only a 3-wire extension cord that has a 3-blade grounding plug. Connect extension cord plug to a matching 3-slot receptacle. Do not use an adapter. Make sure your extension cord is in good condition. Check that the gauge wire of the extension cord is the correct size wire to carry the current this product will draw.

An undersized cord is a potential fire hazard and will cause a drop in line voltage, resulting in loss of power causing the product to overheat. The following table indicates the correct size cord for length required and the ampere rating listed on the product nameplate. **If in doubt, use the next heavier gauge cord. The smaller the gauge number, the heavier the wire gauge.**

Minimum Gauge for Extension Cords

Amps	Volts	Length of cord in feet								
		25	50	100	150	200	250	300	400	500
	120v									
	240v	50	100	200	300	400	500	600	800	1,000
0-2		18	18	18	16	16	14	14	12	12
2-3		18	18	16	14	14	12	12	10	10
3-4		18	18	16	14	12	12	10	10	8
4-5		18	18	14	12	12	10	10	8	8
5-6		18	16	14	12	10	10	8	8	8
6-8		18	16	12	10	10	8	6	6	6
8-10		18	14	12	10	8	8	6	6	4
10-12		16	14	10	8	8	6	6	4	4
12-14		16	12	10	8	6	6	6	4	2
14-16		16	12	10	8	6	6	4	4	2
16-18		14	12	8	8	6	4	4	2	2
18-20		14	12	8	6	6	4	4	2	2

OPERATION

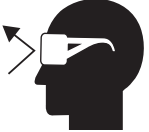
!

WARNING











INJURY HAZARD.

Pump only clean dry air.

Do not pump flammable or explosive gases or use in an atmosphere that contains such gases.

Do not spray flammable or combustible liquid.

Air stream from product may contain solid or liquid material that can result in eye or skin damage.

Install proper safety guards as needed. Pumps with glass jars need safety guards to protect against breaking glass.

Use only recommended air handling parts acceptable for pressure not less than 70 psi.

Keep fingers and objects away from openings and rotating parts.

When provided, motor terminal covers must be in place for safe operation.

Check that coupling guard and shroud are in place before operating.

Product surfaces may become hot during operation. Allow product surfaces to cool before handling.

Do not direct air stream at body. Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection.

Wear hearing protection. Sound level from product may exceed 85 db(A).

Failure to follow these instructions can result in burns, eye injury, or other serious injury.

!

WARNING

The product will start as soon as electricity is turned on if permanently wired, or when the switch is turned "ON," if a switch is included.

It is your responsibility to operate this product at recommended pressures or vacuum duties and room ambient temperatures. **Do not start against a vacuum or pressure load.**

Start Up

If pump is extremely cold, let it warm up to room temperature before starting. If motor fails to start or slows down significantly under load, shut off and disconnect from power supply. Check that the voltage is correct for motor and that motor is turning in the proper direction. Turning in the wrong direction will drastically reduce vane life. Vane life will be drastically reduced if motor is not operating properly. Vanes can break or be damaged if motor/pump runs in the wrong direction.

	Sound Pressure Level
1023-XXX-G608NEX	<70 dB(A)
0523-XXX-G588NDX	<70 dB(A)

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MAINTENANCE

WARNING



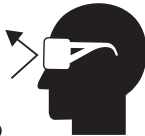
**ELECTRIC SHOCK
HAZARD.**

Disconnect electrical power supply cord before performing maintenance on this product.

If product is hard-wired into system, disconnect electrical power at the circuit breaker or fuse box before performing maintenance on this product.

Failure to follow these instructions can result in death, fire, or electrical shock.

WARNING



INJURY HAZARD.

Wear eye protection when flushing this product.

Air stream from product may contain solid or liquid material that can result in eye or skin damage.

Flush this product in a well-ventilated area.

Do not use kerosene or other combustible solvents to flush this product.

The pump surfaces may become very hot during operation. Do not touch these parts until the pump has been turned off and allowed to cool.

Failure to follow these instructions can result in burns, eye injury, or other serious injury.

It is your responsibility to:

- **Regularly inspect and make necessary repairs to product in order to maintain proper operation.**
- **Make sure that pressure and vacuum is released from product before starting maintenance.**
- **Switch the electrical supply off and isolate the product prior to performing maintenance.**

Check intake and exhaust filters after first 500 hours of operation. Clean filters and determine how frequently filters should be checked during future operation. **This one procedure will help to assure the product's performance and service life.**

Clean filters when necessary by removing and washing in a solvent or soap and water. After cleaning, dry with compressed air to make sure all moisture is removed before replacing filters.

Flushing

Flushing this product to remove excessive dirt, foreign particles, moisture or oil that occurs in the operating environment will help to maintain proper vane performance. If your pump is not getting the vacuum or pressure level expected, flushing is required. Vanes will stick when dirty and may cause pump to be noisy or inefficient.

Use only Gast®-recommended flushing solvent or other non-petroleum based flushing solvent. Do not use kerosene or ANY other combustible solvent to flush product.

1. Disconnect electrical power supply.
2. Release all pressure and vacuum from pump.
3. Remove all accessories at the inlet and exhaust ports.
4. Remove filter.
5. Start product. Place towel over exhaust port to clean up solvent. If using liquid solvent, pour several tablespoons directly into inlet port. If using Gast®-recommended flushing solvent, spray solvent for 5-10 seconds into inlet port.
6. Block the inlet port and draw a deep vacuum for 15-20 seconds. Release the vacuum.
7. Listen for changes in the sound of the motor. If motor sounds smooth, go to next step. If motor does not sound like it is running smoothly, repeat steps 5 and 6 until you can hear a difference in the operating sound of the pump.
8. Start the pump and let it run for 1 minute, then turn pump off.
9. Replace all accessories at the inlet and exhaust ports.
10. Replace filter before resuming operation.

Check that all external accessories such as relief valves and gauges are attached to the cover and are not damaged before reoperating the product.

Shutdown Procedures

It is your responsibility to follow proper shutdown procedures to prevent product damage.

Failure to do so may result in premature pump failure. The Gast® Manufacturing lubricated vacuum pumps and compressors are constructed of ferrous metals or aluminum, which are subject to rust and corrosion when pumping condensable vapors such as water. Follow the steps below to assure correct storage and shutdown between operating periods.

1. Disconnect plumbing.
2. Operate product for at least 5 minutes without plumbing.
3. Cover inlet port (vacuum side) and run pump for 1-3 minutes. Shut the pump down under vacuum.
4. This unit requires lubrication. Refill oil reservoir to proper level before storage.
5. Be sure to plug open ports so dirt and other contaminants do not enter the unit. It is now ready for shutdown.

MAINTENANCE

Service Kit Installation

**WARNING**

**ELECTRICAL SHOCK HAZARD.**

Disconnect electrical power supply before installing Service Kit.

If product is hard-wired into system, disconnect electrical power at the circuit breaker or fuse box before installing Service Kit.

Disconnect air supply and vent all air lines to release pressure or vacuum.

Failure to follow these instructions can result in death, fire, or electrical shock.

Gast® will NOT guarantee field-rebuilt product performance. For performance guarantee, the product must be returned to a Gast® authorized service facility.

Pump Disassembly

Service Kit contents vary. Most contain vanes, gaskets, oiler wick, and filter elements.

Do not attempt to remove the rotor. It is held in place by Loctite and can only be serviced by a Gast® authorized service facility.

1. Remove the end plate bolts. **DO NOT, at any time, remove the rotor or loosen any of the electric motor thru-bolts.**
2. Remove end plate and check for scoring on end plate, rotor, and body. Surfaces should be smooth. If severe scoring is visible, contact a Gast® authorized service facility.
3. Remove vanes.
4. Clean all surfaces with a Gast®-recommended flushing solvent and dry well.

Pump Reassembly

1. Apply a light coat of Gast®-recommended oil, part number AD220, (an equivalent 10 wt. high-detergent oil can also be used), to the vanes.
2. Reinstall vanes, noting the proper direction of the beveled edge (refer to exploded view).
3. Install end plate and tighten end plate bolts.
4. Install new cover gasket on filter/muffler assembly and lubricator.
5. Before putting the pump into service, ensure that any external accessories have not been damaged.

If the pump fails to produce proper vacuum or pressure, or is excessively noisy, turn off and return unit to a Gast® authorized service facility.



Disposal (Please note current regulations) Parts of the rotary vane pumps and compressors, shafts, iron or aluminum castings, plastic or glass parts or bearings, may be recycled as scrap materials.

FAULT FINDING AND REPAIR


WARNING



ELECTRICAL SHOCK HAZARD.

Disconnect electrical power supply cord before repairing and performing fault finding on this product.

If product is hard-wired into system, disconnect electrical power at the circuit breaker or fuse box before performing maintenance on this product.

Failure to follow these instructions can result in death, fire, or electrical shock.

Operating Method in the Event of a Breakdown

- In the event of breakdown, switch off and isolate from compressed air energy supply. Only qualified personnel should perform troubleshooting/repair activities.
- Do not attempt to dismantle any part of the product before the electricity is disconnected.
- Wait until the product has cooled down.
- Refer to the Troubleshooting Chart.
- When the fault has been rectified, the product will operate as soon as the electricity supply is switched "ON."
- Contact the factory or distributor for further advice.

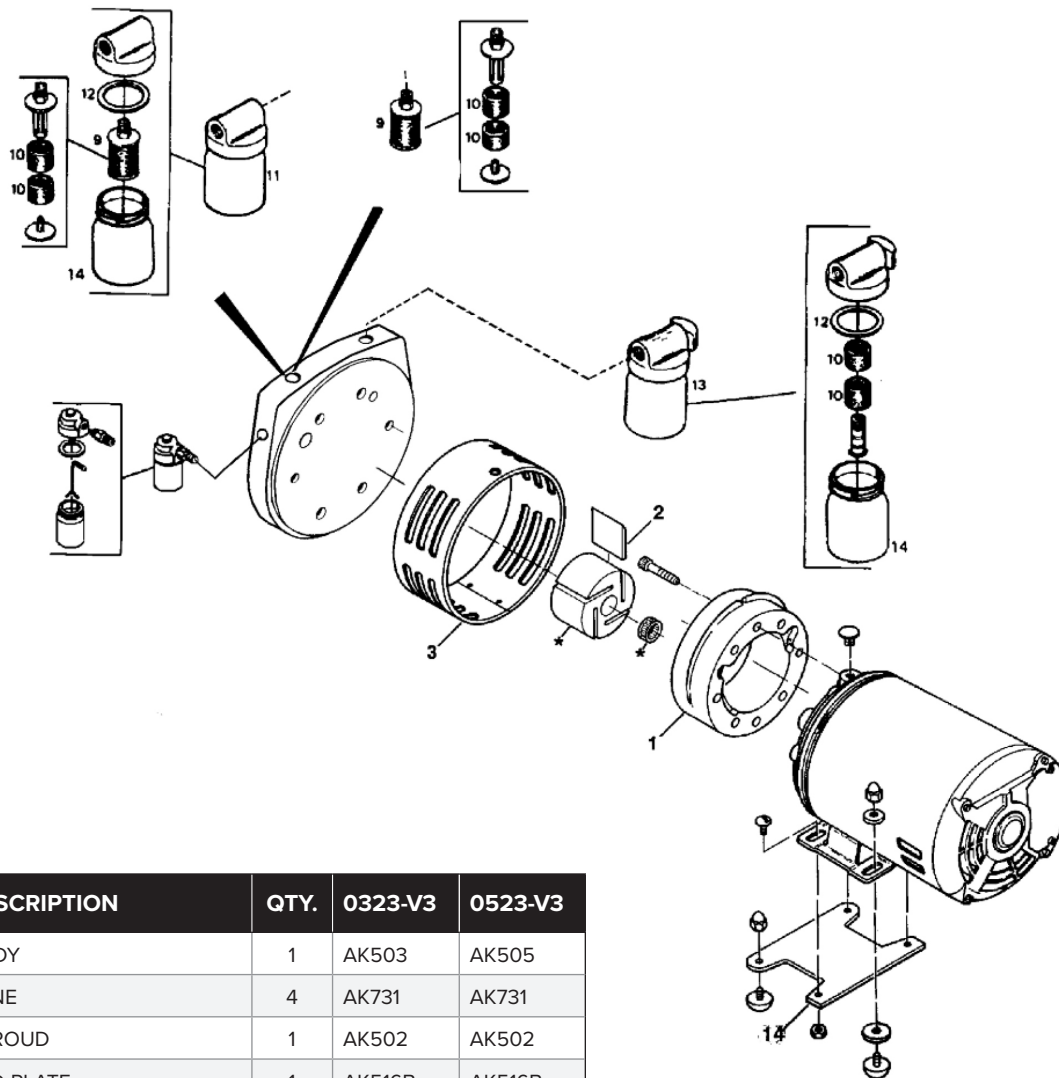
Troubleshooting Guide

Low Vacuum	Low Pressure	High Vacuum	High Pressure	Pump Overheat	Motor Overload	Reason and Remedy for Problem
•	•	At pump		•	•	Filter dirty. Clean or replace.
	•		At pump	•	•	Muffler dirty. Clean or replace.
•		At pump		•	•	Vacuum line collapsed. Repair or replace.
•			•	•	•	Relief valve set too high. Inspect and adjust.
•	•					Relief valve set too low. Inspect and adjust.
•	•	At pump	At pump	•	•	Plugged vacuum/pressure line. Inspect and repair.
•	•					Vanes sticking. Clean or replace.
•	•					Vanes worn. Replace.
•	•					Shaft seal worn. Replace.
•				•	•	Dust or offset powder in pump. Inspect and clean.
•	•			•		Motor not wired correctly. Check wiring diagram and line voltage.
		•	•	•	•	Running at too high an RPM. Check wiring diagram and line voltage.

For the name of the nearest Gast® authorized service facility, contact one of our offices or visit our website at www.gastmfg.com.

PARTS AND ACCESSORIES

0323/0523 SERIES



ITEM NO.	DESCRIPTION	QTY.	0323-V3	0523-V3
1	BODY	1	AK503	AK505
2 Δ	VANE	4	AK731	AK731
3	SHROUD	1	AK502	AK502
4	END PLATE	1	AK516B	AK516B
5	SIPHON OILER	1	AA930A	AA930A
6 Δ	COVER GASKET	1	AA932	AA932
7 Δ	WICK	1	AA934	AA934
8	JAR	1	AA935A	AA935A
9	FILTER ELEMENT ASSEMBLY	1	B343B	B343B
10 Δ	FILTER FELT	4	B344A	B344A
11	INTAKE FILTER ASSEMBLY	1	V400G	V400G
12 Δ	COVER GASKET	2	B62A	B62A
13	MUFFLER ASSEMBLY	1	V425K	V425K
14	JAR	2	AA125A	AA125A
15	FOOT SUPPORT ASSEMBLY	1	AC136	AC136
***	SERVICE KIT	1	K485	K485

Lubrication

Series 0323 and 0523:

These models use a siphon oiler. The lubrication rate is determined by the temperature, the operating vacuum or pressure, and the siphon jar oil level. Keep the siphon jar filled to the line shown on the jar. Either unscrew the jar or fill through the spring-loaded cap.

All Models:

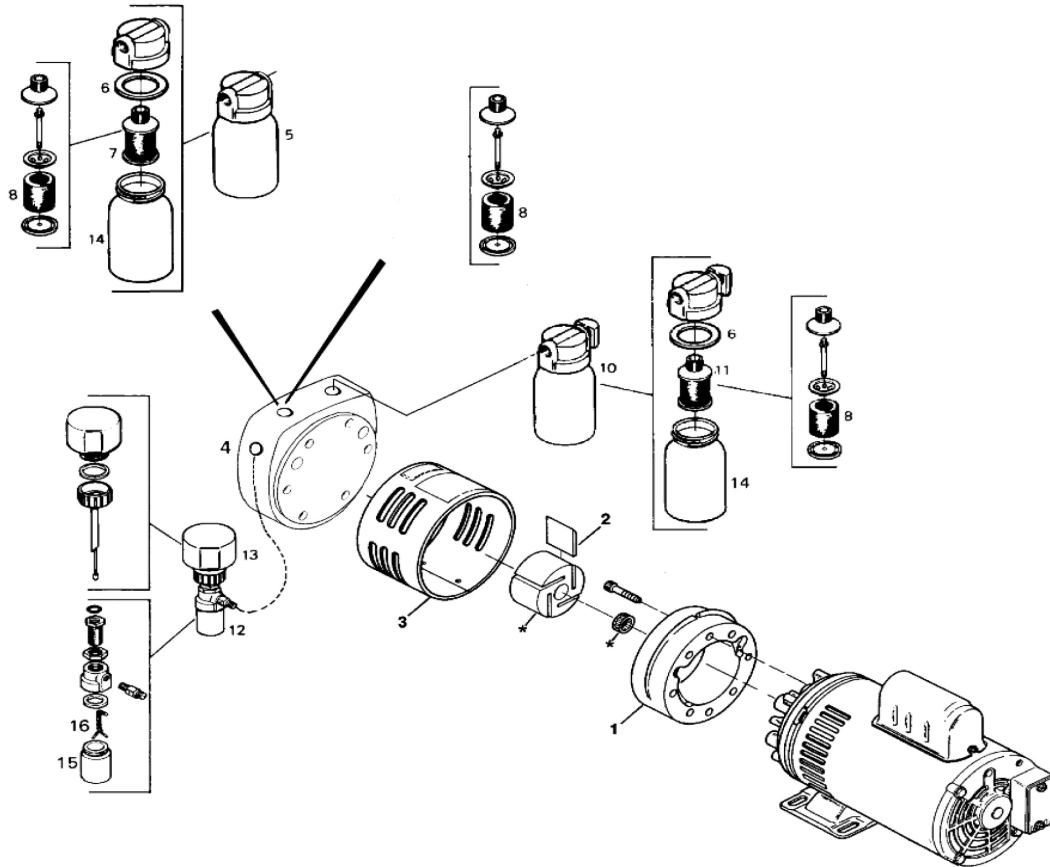
The oil wick should be folded in half, with the two ends submerged in the oil at the bottom of the jar, and the folded center inserted into the connector approximately 3/8" past the two breather holes in the connector (but not touching the feed hole leading to the pump). Both the breather holes and the feed hole must be unrestricted.

Δ Denotes parts in repair kit. *** Item not shown.

Gast® reserves the rights to make technical modifications as needed.

PARTS AND ACCESSORIES

0823/1023 SERIES



Lubrication

Series 0823 and 1023:

These models use a constant level oiler. The lubrication rate is determined by the temperature, the vacuum or pressure at which the pump is operating, and the siphon jar oil level (determined by the vertical position of the tube in the jar).

The lower end of the tube should be 1/4" from the bottom of the oil jar for normal lubrication. To reposition the tube, loosen the locknut and adjust the sleeve up or down. Lock the new position with the locknut. For faster lubrication, raise the reservoir tube away from the bottom of the oil jar. For slower lubrication, lower the reservoir tube toward the bottom of the jar.

To replenish the oil, pull the reservoir upward out of the adjusting sleeve and turn it over. Add oil through the tube. When the upper reservoir is filled, replace it through the adjusting sleeve and firmly seat it against the top of the sleeve.

All Models:

The oil wick should be folded in half, with the two ends submerged in the oil at the bottom of the jar, and the folded center inserted into the connector approximately 3/8" past the two breather holes in the connector (but not touching the feed hole leading to the pump). Both the breather holes and the feed hole must be unrestricted.

ITEM NO.	DESCRIPTION	QTY.	0823-V2	1023-V2
1	BODY	1	AK517	AK518
2 Δ	VANE	4	AK741	AK741
3	SHROUD	1	AK511	AK511
4	END PLATE	1	AK515B	AK515B
5	INTAKE FILTER ASSEMBLY	1	AB599	AB599
6 Δ	COVER GASKET	2	AA404	AA404
7	FILTER ELEMENT ASSEMBLY	1	AC433	AC433
8 Δ	CARTRIDGE	2	AC393	AC393
10	EXHAUST MUFFLER ASSEMBLY	1	AB599C	AB599C
11	MUFFLER ELEMENT ASSEMBLY	1	AC434	AC434
12	CONSTANT LEVEL OILER	1	AD125K	AD125K
13	OIL RESERVOIR	1	AD117	AD117
14	JAR	2	AA805	AA805
15	JAR	1	AA935A	AA935A
16	WICK	1	AA934	AA934
***	SERVICE KIT	1	K486	K485

Δ Denotes parts in repair kit. *** Item not shown.

Gast® reserves the rights to make technical modifications as needed.

PARTS AND ACCESSORIES

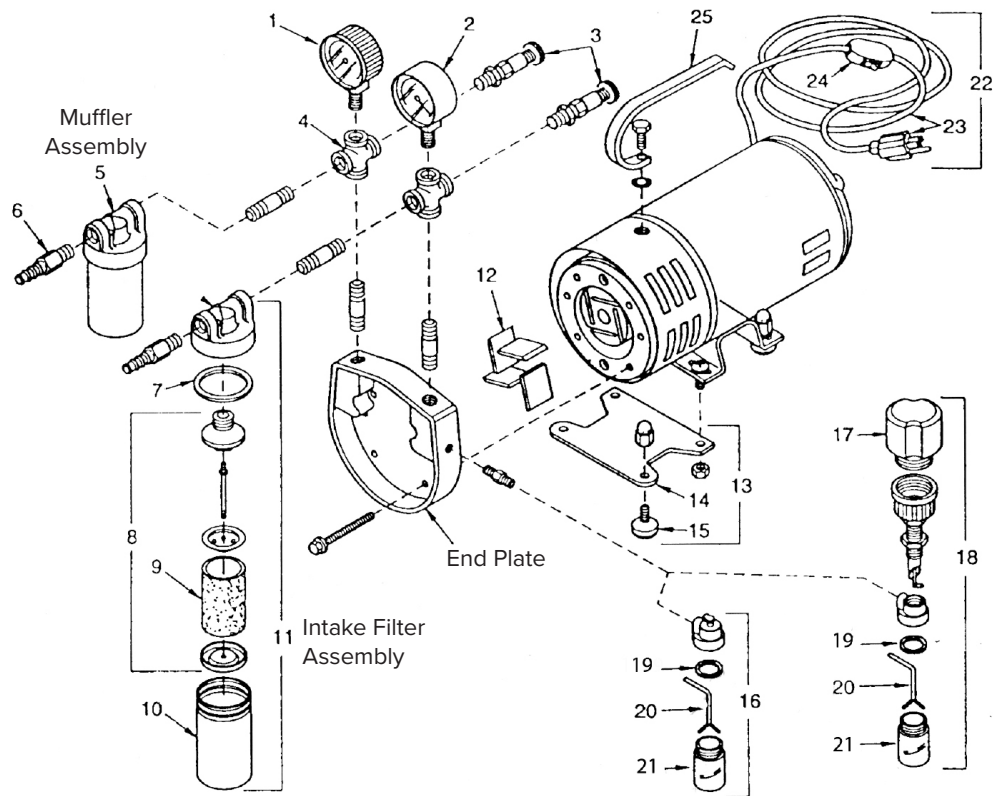
0323/0523/0823/1023 SERIES

ITEM NO.	DESCRIPTION	QTY.	0323-V4 0523-V4A	0823-V4B 1023-V4
1	PRESSURE GAUGE	1	AA644B	AA644B
2	VACUUM GAUGE	1	AA640	AA640
3	REGULATOR ASSEMBLY	2	AA986B	AK502
	PRESSURE RELIEF VALVE	1	—	AA600
	VACUUM RELIEF VALVE	1	—	AA840
4	CROSS	2	BA601	BA602
5	MUFFLER ASSEMBLY	1	AB609B	AB608A
6	HOSE NIPPLE	2	AA254D	AA239
7 Δ	COVER GASKET	2	AA404	AA404
	INTAKE FILTER	1	AC433-1	AC433-1
8	ELEMENT ASSEMBLY		—	—
	MUFFLER	1	AC434-1	AC434-1
9 Δ	CARTRIDGE	2	AC393	AC393
10	METAL JAR	2	AA132	AA132
11	INTAKE FILTER ASSEMBLY	1	AB609D	AB608B
12 Δ	VANE	4	AK731	AK741
13	FOOT SUPPORT ASSEMBLY	1	AC136	—
14	FOOT SUPPORT	1	AC135	—
15	RUBBER FOOT	4	—	AB319
16	SIPHON OILER	1	AA930B	—
17	OIL RESERVOIR	1	—	AD117
18	CONSTANT LEVEL OILER	1	—	AK125K
19	COVER GASKET - OILER	1	AA932	AA932
20 Δ	WICK	1	AA934	AA934
21	JAR	1	AA935A	AA935A
22	CORD/SWITCH/PLUG ASSEMBLY	1	AA896	AL239 (0823-V4B ONLY)
23	CORD/PLUG ASSEMBLY	1	—	AL142 (0823-V4B ONLY)
24	SWITCH	1	—	AC169 (0823-V4B ONLY)
25	HANDLE	1	AC174	AF555
***	SERVICE KIT	1	K556A	K486

Δ Denotes parts in repair kit. *** Item not shown.

Gast® reserves the rights to make technical modifications as needed.

PARTS AND ACCESSORIES

0323/0523/0823/1023 SERIES

SYMBOLS

The symbols found on the product and packing are explained below.

Symbol	Description
	DANGER: Hazardous situation or extreme condition. Will result in serious or fatal injury if not avoided. WARNING: Hazardous situation. May result in serious injury if not avoided. CAUTION: Potentially hazardous situation/avoid unsafe practices. Could result in minor or moderate injury if not avoided.
	EQUIPMENT ALERT: Hazardous situation that could result in equipment damage if not avoided.
	WARNING: Hot surfaces. Risk of burns. Do not touch surface during operation. Do not touch the compressor head.
	CAUTION: Risk of explosion. Risk of bursting. Do not adjust regulator to result in output pressure greater than marked maximum pressure of attachment.
	WARNING: Risk of injury. Do not direct air stream at body.
	Keep dry. Do not expose to rain.
	Transport and storage temperature: -25°C (-13°F) to 55°C (131°F)
	Transport and storage relative humidity: Maximum 95%
	This side up.
	Fragile. Handle with care.
	Disposal in accordance with existing regulations for electric and electronic equipment.
	Read operation and maintenance manual before operating.
	A/C power
	Ground
	ELECTRICAL SHOCK HAZARD: Risk of electric shock present. Make sure power is disconnected before attempting this procedure.
	ELECTRICAL SHOCK HAZARD: Risk of electric shock present. Make sure power is disconnected before attempting this procedure.
	WARNING: Air stream from motor may contain solid or liquid material that can result in eye or skin damage. Wear eye protection.
	MOVING PARTS PRESENT: Can result in serious injury to hands or fingers. Keep hands away from moving parts. Disconnect and lockout power before servicing.

POTENTIAL WARNING LABELS ON PRODUCT

WARNING

THIS MOTOR IS THERMALLY PROTECTED AND WILL AUTOMATICALLY RESTART WHEN PROTECTOR RESETS. ALWAYS DISCONNECT POWER SUPPLY BEFORE SERVICING.

WARNING



HOT SURFACE. RISK OF BURNS.
DO NOT TOUCH.

WARNING



ELECTRIC SHOCK RISK.
DISCONNECT BEFORE
SERVICING.

CAUTION

FOR SUPPLY CONNECTIONS, USE WIRE RATED
FOR AT LEAST 90°C (194°F).

CAUTION



TO REDUCE THE RISK OF ELECTRIC
SHOCK, DO NOT EXPOSE TO RAIN.
STORE INDOORS.

ATTENTION

SILENCER ATTACHED IN OUTLET PORT IS ONLY
FINGER TIGHT FOR SHIPPING PURPOSES.
TIGHTEN FURTHER FOR VACUUM APPLICATION
OR CHANGE TO INLET PORT AND TIGHTEN
FOR PRESSURE APPLICATION.

CAUTION



RISK OF INJURY - DO NOT DIRECT
AIR STREAM AT BODY.

CAUTION **ATTENTION**

3-PHASE MOTOR MUST BE WIRED TO ROTATE
IN PROPER DIRECTION FOR PUMP OPERATION.
PROTECT MOTOR WITH PROPER OVERLOAD
HEATERS ACCORDING TO YOUR LOCAL
ELECTRICAL CODE AND MOTOR
MANUFACTURER'S RECOMMENDATION.

WARNING



PLEASE READ THIS MANUAL
COMPLETELY BEFORE INSTALLING
AND USING THIS PRODUCT.
SAVE THIS MANUAL FOR FUTURE
REFERENCE AND KEEP IN THE
VICINITY OF THE PRODUCT.

WARNING

DO NOT RETURN UNIT AFTER RADIATION,
TOXIC SUBSTANCE, OR BIOHAZARD USE.

 **gast®**

SERVICE KIT	PART NUMBER	SERVICE INTERVAL



Scan this code or visit **gastmfg.com** for more
information on where to purchase genuine
Gast® maintenance kits.

WARRANTY

Warranty Policy

Gast® finished products, when properly installed and operated under normal conditions of use, are warranted by Gast® to be free from defects in material and workmanship for a period of twelve (12) months from the date of purchase from Gast® or an authorized Gast® representative or distributor. In order to obtain performance under this warranty, the buyer must promptly (in no event later than thirty (30) days after discovery of the defect) give written notice of the defect to Gast® Manufacturing Incorporated, 2300 M139 Highway, Benton Harbor, Michigan, USA 49022-6114 or an authorized service center (unless specifically agreed upon in writing signed by both parties or specified in writing as part of a Gast® OEM Quotation). Buyer is responsible for freight charges both to and from Gast® in all cases.

This warranty does not apply to electric motors, electrical controls, and gasoline engines not supplied by Gast®. The Gast® warranty also does not extend to any goods or parts which have been subjected to misuse, lack of maintenance, neglect, damage by accident or transit damage.

THIS EXPRESS WARRANTY EXCLUDES ALL OTHER WARRANTIES OR REPRESENTATIONS EXPRESSED OR IMPLIED BY ANY LITERATURE, DATA, OR PERSON. THE GAST® MAXIMUM LIABILITY UNDER THIS EXCLUSIVE REMEDY SHALL NEVER EXCEED THE COST OF THE SUBJECT PRODUCT AND GAST® RESERVES THE RIGHT, AT ITS SOLE DISCRETION, TO REFUND THE PURCHASE PRICE IN LIEU OF REPAIR OR REPLACEMENT.

GAST® WILL NOT BE RESPONSIBLE OR LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, however arising, including but not limited to those for use of any products, loss of time, inconvenience, lost profit, labor charges, or other incidental or consequential damages with respect to persons, business, or property, whether as a result of breach of warranty, negligence or otherwise. Notwithstanding any other provision of this warranty, BUYER'S REMEDY AGAINST GAST® FOR GOODS SUPPLIED OR FOR NON-DELIVERED GOODS OR FAILURE TO FURNISH GOODS, WHETHER OR NOT BASED ON NEGLIGENCE, STRICT LIABILITY OR BREACH OF EXPRESS OR IMPLIED WARRANTY IS LIMITED SOLELY, AT THE OPTION OF GAST®, TO REPLACEMENT OF OR CURE OF SUCH NONCONFORMING OR NON-DELIVERED GOODS OR RETURN OF THE PURCHASE PRICE FOR SUCH GOODS AND IN NO EVENT SHALL EXCEED THE PRICE OR CHARGE FOR SUCH GOODS. GAST® EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE WITH RESPECT TO THE GOODS SOLD. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTIONS SET FORTH IN THIS WARRANTY, notwithstanding any knowledge of Gast® regarding the use or uses intended to be made of goods, proposed changes or additions to goods, or any assistance or suggestions that may have been made by Gast® personnel.

Unauthorized extensions of warranties by the customer shall remain the customer's responsibility.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF GAST® PRODUCTS FOR CUSTOMER'S USE OR RESALE, OR FOR INCORPORATING THEM INTO OBJECTS OR APPLICATIONS WHICH CUSTOMER DESIGNS, ASSEMBLES, CONSTRUCTS OR MANUFACTURES.

This warranty can be modified only by authorized Gast® personnel by signing a specific, written description of any modifications.

For more warranty information, visit gastmfg.com/warranty.

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Additional Languages.



Declaration of Conformity.