

**1: PUMP SPECS** 

2: INSTAL & OP

3: EXP VIEW

4: WARRANTY

### **Safety Information**

IMPORTANT



Read the safety warnings and instructions in this manual before pump installation and start-up. Failure to comply with the recommendations stated in this manual could damage the pump and void factory warranty.



When the pump is used for materials that tend to settle out or solidify, the pump should be flushed after each use to prevent damage. In freezing temperatures the pump should be completely drained between uses.

### 



Before pump operation, inspect all fasteners for loosening caused by gasket creep. Retighten loose fasteners to prevent leakage. Follow recommended torques stated in this manual.



Nonmetallic pumps and plastic components are not UV stabilized. Ultraviolet radiation can damage these parts and negatively affect material properties. Do not expose to UV light for extended periods of time.

### WARNING



When used for toxic or aggressive fluids, the pump should always be flushed clean prior to disassembly.



Before maintenance or repair, shut off the compressed air line, bleed the pressure, and disconnect the air line from the pump. Be certain that approved eye protection and protective clothing are worn at all times. Failure to follow these recommendations may result in serious injury or death.



Airborne particles and loud noise hazards. Wear eye and ear protection.



In the event of diaphragm rupture, pumped material may enter the air end of the pump, and be discharged into the atmosphere. If pumping a product that is hazardous or toxic, the air exhaust must be piped to an appropriate area for safe containment.



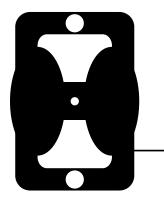
Take action to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves, containers and other miscellaneous equipment must be properly grounded.



This pump is pressurized internally with air pressure during operation. Make certain that all fasteners are in good condition and are reinstalled properly during reassembly.

### **Grounding the Pump**

To be fully groundable, the pumps must be ATEX Compliant. Refer to the nomenclature page for ordering information.



Optional 8 foot long (244 centimeters) Ground Strap is available for easy ground connection.

To reduce the risk of static electrical sparking, this pump must be grounded. Check the local electrical code for detailed grounding instruction and the type of equipment required.

Refer to nomenclature page for ordering information.



WARNING

Take action to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves, containers or other miscellaneous equipment must be grounded.



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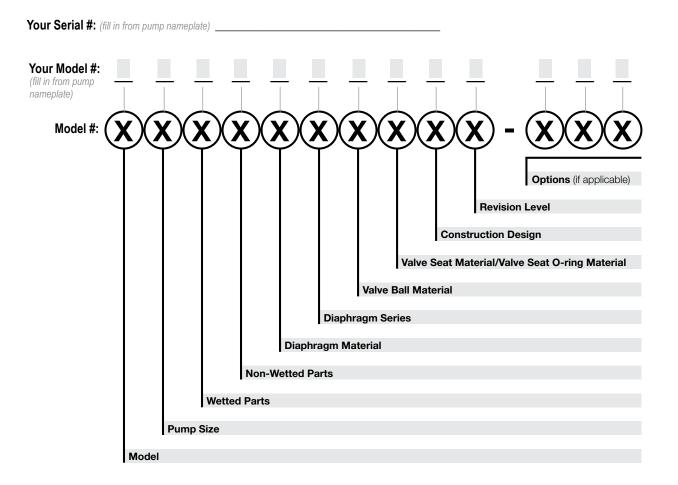
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### **Explanation of Pump Nomenclature**



#### Model

E Elima-Matic U Ultra-Matic V V-Series **RE** AirVantage Pump Size

6 1/4"

8 3/8"

5 1/2"

7 3/4"

**1** 1"

2 2"

3 3"

1 Neoprene

2 Nitrile

4 EPDM

5 PTFE

7 Hytrel

9 Geolast

A Acetal Stainless Steel

6 Santoprene (XL)

8 Polyurethane

## **Diaphragm Series**

R Rugged D Dome X Thermo-Matic T Tef-Matic (2-piece) B Versa-Tuff (1-piece) F FUSION (one-piece integrated plate)

#### A Aluminum C Cast Iron S Stainless Steel H Alloy C P Conductive Polypropylene 4 1-1/4" or 1-1/2" K Kynar G Conductive Acetal B Aluminum (screen mount) Valve Ball Material Valve Seat/Valve Seat O-Ring Material 1 Neoprene 2 Nitrile 3 (FKM) Fluorocarbon 3 (FKM) Fluorocarbon 4 EPDM

Wetted Parts

- 5 PTFE 6 Santoprene (XL) 7 Hytrel 8 Polyurethane 9 Geolast A Aluminum w/ PTFE O-Rings S Stainless Steel w/ PTFE O-Rings C Carbon Steel w/ PTFE O-Rings
  - H Alloy C w/ PTFE O-Rings
  - T PTFE Encapsulated Silicone O-Rings

#### **Non-Wetted Parts** A Aluminum S Stainless Steel P Polypropylene G Conductive Acetal **Z** PTFE-coated Aluminum J Nickel-plated Aluminum C Cast Iron **Q** Epoxy-Coated Aluminum

**Construction Design** 

9 Bolted

0 Clamped

#### **Diaphragm Material**

1 Neoprene 2 Nitrile

#### 3 (FKM) Fluorocarbon 4 EPDM 5 PTFE 6 Santoprene (XL) 7 Hytrel 9 Geolast

**VERSA-MATIC**<sup>®</sup> e5nmdlCsmATEX-rev1012

## **Materials**

Material Profile:	Operating Temperatures:		Polypropylene: A thermoplastic polymer. Moderate tensile 180°F 32°F   and flex strength. Resists stong acids and alkali. Attacked by 82°C 0°C		
CAUTION! Operating temperature limitations are as follows:		Min.	chlorine, fuming nitric acid and other strong oxidizing agents.		
<b>Conductive Acetal:</b> Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing agents.		-20°F -29°C	<b>PVDF:</b> (Polyvinylidene Fluoride) A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	250°F 121°C	0°F -18°C
			Santoprene®: Injection molded thermoplastic elastomer with	275°F	-40°F
EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and	280°F 138°C	-40°F -40°C	no fabric layer. Long mechanical flex life. Excellent abrasion 135°C resistance.		-40°C
alcohols.		-40 C	UHMW PE: A thermoplastic that is highly resistant to a broad	180°F	-35°F
FKM: (Fluorocarbon) Shows good resistance to a wide range of oils and sovents; especially all aliphatic, aromatic and	350°F 177°C	-40°F -40°C	range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	82°C	-37°C
halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.		-40°C	<b>Urethane:</b> Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F 66°C	32°F 0°C
Hytrel®: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°C	Virgin PTFE: (PFA/TFE) Chemically inert, virtually impervious. 220°F   Very few chemicals are known to chemically react with PTFE; 104°C   molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen   difluoride which readily liberate free fluorine at elevated temperatures.		-35°F -37°C
Neoprene: All purpose. Resistance to vegetable oils. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids,	200°F 93°C	-10°F -23°C			
ketones, esters and nitro hydrocarbons and chlorinated aromatic hydrocarbons.			Maximum and Minimum Temperatures are the limits for which these ma Temperatures coupled with pressure affect the longevity of diaphragm p	aterials can b	e operate
Nitrile: General purpose, oil-resistant. Shows good solvent, oil,	190°F				
water and hydraulic fluid resistance. Should not be used with	88°C	-23°C	Metals:		
highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.			Alloy C: Equal to ASTM494 CW-12M-1 specification for nickel and	d nickel alloy	y.
Nylon: 6/6 High strength and toughness over a wide temperature range. Moderate to good resistance to fuels, oils and chemicals.	180°F 82°C	32°F 0°C	Stainless Steel: Equal to or exceeding ASTM specification A743 ( resistant iron chromium, iron chromium nickel and nickel based all general applications. Commonly referred to as 316 Stainless Steel	oy castings	for

Ambient temperature range -2 Process temperature range -2

-20 C to +80 C for models rated as category 1 equipment

-20 c to +100 C for model rated as category 2 equipment

In addition, the ambient temperature range and the process temperature range do not exceed the operating temperature range of the applied non-metallic parts as listed in the manuals of the pumps.

## AFTERMARKET PARTS

## **RIGHT PART, RIGHT NOW**

**Pumper Parts** is your single source for parts that fit Air-Operated Double Diaphragm (AODD) pumps

- Wilden<sup>®</sup>
- ARO®
- Yamada<sup>®</sup>

## Designed to perform equal to or greater than original equipment manufacture.



Phone: (419) 526-7296 info@pumperparts.com www.pumperparts.com

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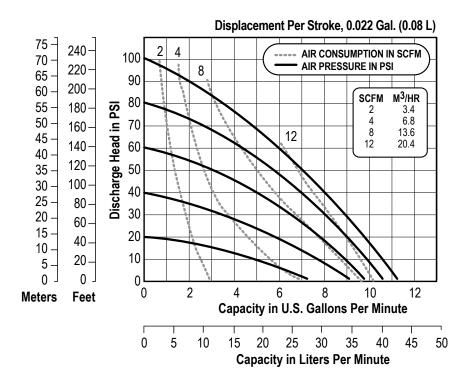
1: PUMP SPECS

### Performance

E5 1/2" Bolted Plastic Rubber

1: PUMP SPECS

Flow Rate Adjustable to 0-11 gpm (53 lpm)
Port Size
Suction 1/2" NPT
Discharge 1/2" NPT
Air Inlet
Air Exhaust
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
Max Noise Level
Shipping Weights
Conductive Polypropylene 8.5 lbs (3.9 kg)
Conductive Acetal 12 lbs (5.4 kg)



NOTE: Performance based on the following: PTFE fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

#### E5 1/2" Bolted Plastic **PTFE Fitted**

Flow Rate Adjustable to 0-10 gpm (37.9 lpm)
Port Size
Suction
Discharge 1/2" NPT
<b>Air Inlet</b>
Air Exhaust
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
Max Noise Level
Shipping Weights
Conductive Polypropylene 8.5 lbs (3.9 kg)
Conductive Acetal 12 lbs (5.4 kg)

Displacement Per Stroke, 0.02 Gal. (0.075 L) 75 -AIR CONSUMPTION IN SCFM **AIR PRESSURE IN PSI** M<sup>3</sup>/HR SCFM PSI 3.4 6.8 .⊆ 13.6 **Discharge Head** 20.4 140-10 -Meters Feet Capacity in U.S. Gallons Per Minute **Capacity in Liters Per Minute** 

NOTE: Performance based on the following: PTFE fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



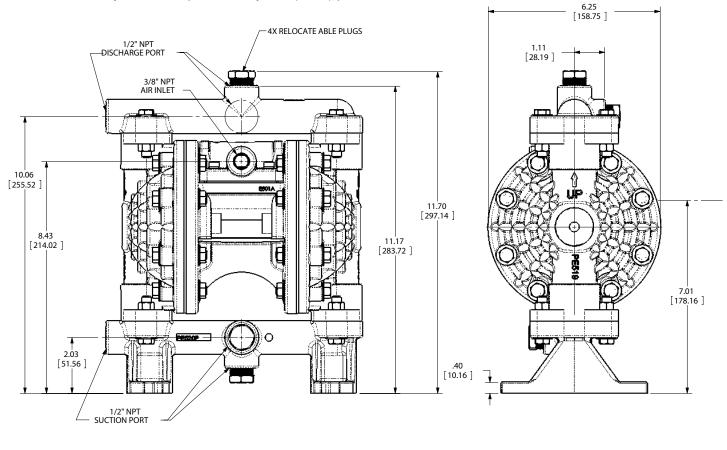
and TPE Fitted			
ate able to 0-11 gpm (53 lpm) ze			
n			

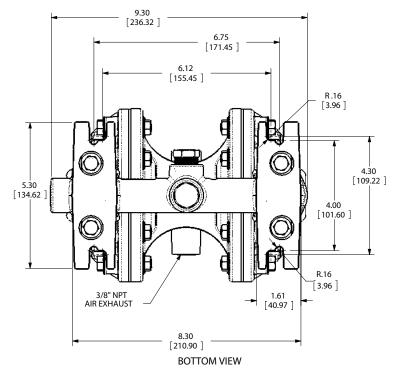
### **Dimensional Drawings**

### E5 Non-Metallic Bolted

Dimensions in inches (mm dimensions in brackets)

The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.

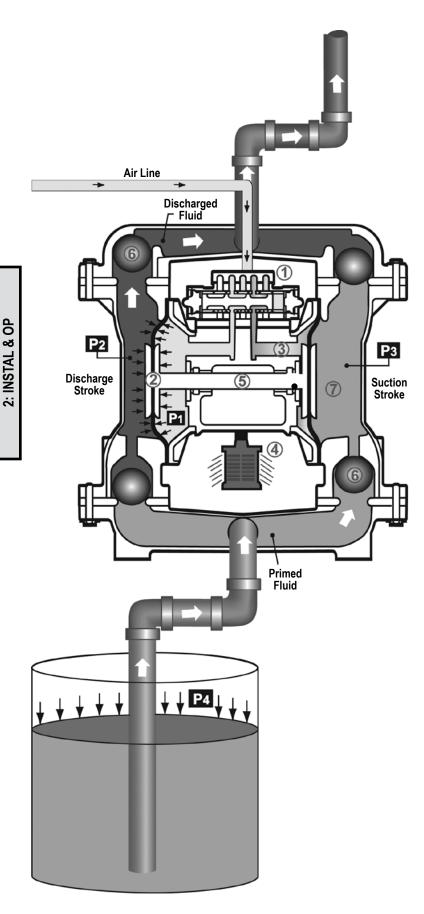






**1: PUMP SPECS** 

### **Principle of Pump Operation**



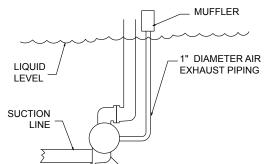
Air-Operated Double Diaphragm (AODD) pumps are powered by compressed air, nitrogen or natural gas.

The main directional (air) control valve ① distributes compressed air to an air chamber, exerting uniform pressure over the inner surface of the diaphragm ②. At the same time, the exhausting air ③ from behind the opposite diaphragm is directed through the air valve assembly(s) to an exhaust port ④.

As inner chamber pressure (P1) exceeds liquid chamber pressure (P2), the rod ⑤ connected diaphragms shift together creating discharge on one side and suction on the opposite side. The discharged and primed liquid's directions are controlled by the check valves (ball or flap)⑥ orientation.

The pump primes as a result of the suction stroke. The suction stroke lowers the chamber pressure (P3) increasing the chamber volume. This results in a pressure differential necessary for atmospheric pressure (P4) to push the fluid through the suction piping and across the suction side check valve and into the outer fluid chamber  $\mathcal{D}$ .

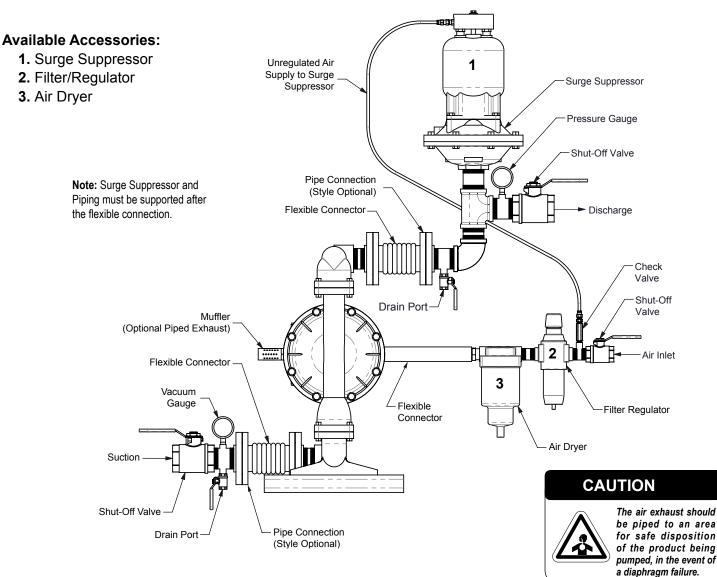
Suction (side) stroking also initiates the reciprocating (shifting, stroking or cycling) action of the pump. The suction diaphragm's movement is mechanically pulled through its stroke. The diaphragm's inner plate makes contact with an actuator plunger aligned to shift the pilot signaling valve. Once actuated, the pilot valve sends a pressure signal to the opposite end of the main directional air valve, redirecting the compressed air to the opposite inner chamber.



Pump can be submerged if the pump materials of construction are compatible with the liquid being pumped. The air exhaust must be piped above the liquid level. When the pumped product source is at a higher level than the pump (flooded suction condition), pipe the exhaust higher than the product source to prevent siphoning spills.



### **Recommended Installation Guide**



#### Installation And Start-Up

Locate the pump as close to the product being pumped as possible. Keep the suction line length and number of fittings to a minimum. Do not reduce the suction line diameter.

#### Air Supply

Connect the pump air inlet to an air supply with sufficient capacity and pressure to achieve desired performance. A pressure regulating valve should be installed to insure air supply pressure does not exceed recommended limits.

#### **Air Valve Lubrication**

The air distribution system is designed to operate WITHOUT lubrication. This is the standard mode of operation. If lubrication is desired, install an air line lubricator set to deliver one drop of SAE 10 non-detergent oil for every 20 SCFM (9.4 liters/sec.) of air the pump consumes. Consult the Performance Curve to determine air consumption.

#### Air Line Moisture

Water in the compressed air supply may cause icing or freezing of the exhaust air, causing the pump to cycle erratically or stop operating. Water in the air supply can be reduced by using a point-of-use air dryer.

#### **Air Inlet And Priming**

To start the pump, slightly open the air shut-off valve. After the pump primes, the air valve can be opened to increase air flow as desired. If opening the valve increases cycling rate, but does not increase the rate of flow, cavitation has occurred. The valve should be closed slightly to obtain the most efficient air flow to pump flow ratio.



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2: INSTAL & OP

### **Troubleshooting Guide**

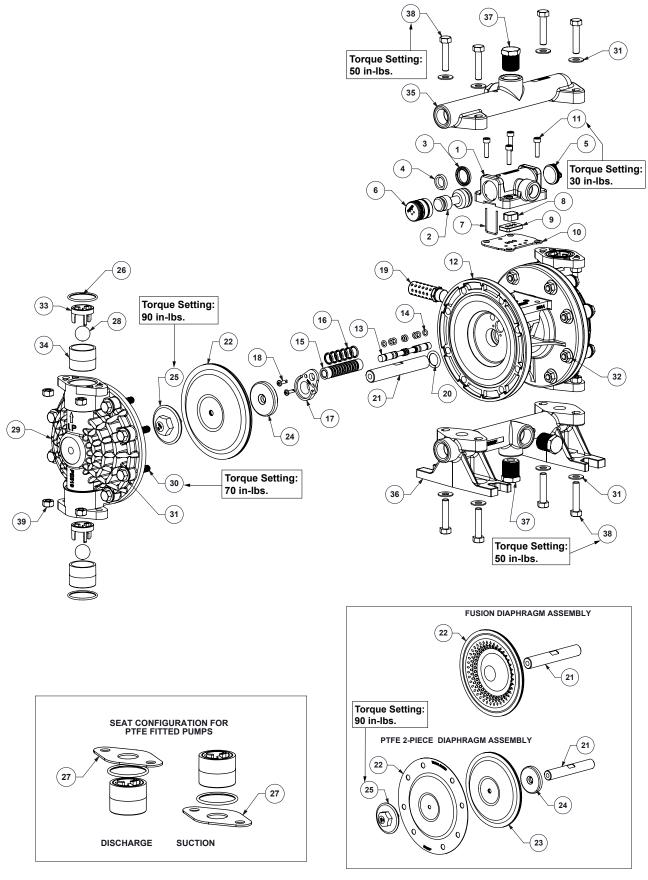
Symptom:	Potential Cause(s):	Recommendation(s):	
Pump Cycles Once	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).	
	Air valve or intermediate gaskets installed incorrectly.	Install gaskets with holes properly aligned.	
	Bent or missing actuator plunger.	Remove pilot valve and inspect actuator plungers.	
Pump Will Not Operate	Pump is over lubricated.	Set lubricator on lowest possible setting or remove. Units are designed for lube free operation.	
/ Cycle	Lack of air (line size, PSI, CFM).	Check the air line size and length, compressor capacity (HP vs. cfm required).	
l Cycle	Check air distribution system.	Disassemble and inspect main air distribution valve, pilot valve and pilot valve actuators.	
	Discharge line is blocked or clogged manifolds.	Check for inadvertently closed discharge line valves. Clean discharge manifolds/piping.	
	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).	
	Blocked air exhaust muffler.	Remove muffler screen, clean or de-ice, and re-install.	
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assemble	
	Pump chamber is blocked.	Disassemble and inspect wetted chambers. Remove or flush any obstructions.	
Pump Cycles and Will	Cavitation on suction side.	Check suction condition (move pump closer to product).	
Not Prime or No Flow	Check valve obstructed. Valve ball(s) not seating properly or sticking.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket. Clean out around valve ball cage and valve seat area. Replace valve ball or valve seat if damaged. Use heavier valve ball material.	
	Valve ball(s) missing (pushed into chamber or manifold).	Worn valve ball or valve seat. Worn fingers in valve ball cage (replace part). Check Chemical Resistance Guide for compatibility.	
	Valve ball(s)/seat(s) damaged or attacked by product.	Check Chemical Resistance Guide for compatibility.	
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.	
	Suction line is blocked.	Remove or flush obstruction. Check and clear all suction screens or strainers.	
	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.	
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.	
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.	
Pump Cycles Running	Over lubrication.	Set lubricator on lowest possible setting or remove. Units are designed for lube free operation.	
Sluggish/Stalling,	Icing.	Remove muffler screen, de-ice, and re-install. Install a point of use air drier.	
	Clogged manifolds.	Clean manifolds to allow proper air flow	
Flow Unsatisfactory	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).	
	Cavitation on suction side.	Check suction (move pump closer to product).	
	Lack of air (line size, PSI, CFM).	Check the air line size, length, compressor capacity.	
	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.	
	Air supply pressure or volume exceeds system hd.	Decrease inlet air (press. and vol.) to the pump. Pump is cavitating the fluid by fast cycling.	
	Undersized suction line.	Meet or exceed pump connections.	
	Restrictive or undersized air line.	Install a larger air line and connection.	
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.	
	Suction line is blocked.	Remove or flush obstruction. Check and clear all suction screens or strainers.	
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.	
	Check valve obstructed.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket.	
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.	
	Entrained air or vapor lock in chamber(s).	Purge chambers through tapped chamber vent plugs. Purging the chambers of air can be dangerous.	
Product Leaking	Diaphragm failure, or diaphragm plates loose.	Replace diaphragms, check for damage and ensure diaphragm plates are tight.	
Through Exhaust	Diaphragm stretched around center hole or bolt holes.	Check for excessive inlet pressure or air pressure. Consult Chemical Resistance Chart for compatibilitivity products, cleaners, temperature limitations and lubrication.	
Premature Diaphragm	Cavitation.	Enlarge pipe diameter on suction side of pump.	
Failure	Excessive flooded suction pressure.	Move pump closer to product. Raise pump/place pump on top of tank to reduce inlet pressure. Install Back pressure device (Tech bulletin 41r). Add accumulation tank or pulsation dampener.	
	Misapplication (chemical/physical incompatibility).	Consult Chemical Resistance Chart for compatibility with products, cleaners, temperature limitations and lubrication.	
	Incorrect diaphragm plates or plates on backwards, installed incorrectly or worn.	Check Operating Manual to check for correct part and installation. Ensure outer plates have not been worn to a sharp edge.	
Unbalanced Cycling	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.	
	Undersized suction line.	Meet or exceed pump connections.	
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.	
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.	
	Check valve obstructed.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket.	
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.	
	Entrained air or vapor lock in chamber(s).	Purge chambers through tapped chamber vent plugs.	

For additional troubleshooting tips contact After Sales Support at service.warrenrupp@idexcorp.com or 419-524-8388



2: INSTAL & OP

### **Composite Repair Parts Drawing**





### **Composite Repair Parts List**

		Air Valve As	sembly		
Item #	Qty.	Description		Part Number	
-	1	Valve Body (includes items 1-11)	031.V004.557		
1	1	Valve Body		E500A-ATEX	
2	1	Valve Spool Assembly (Includes Items 3 & 4)	E	500BUBASY	
3	1	Large Valve Spool U-Cup		P98-104A	
4	1	Small Valve Spool U-Cup		P98-104AUB	
5	1	End Cap Assembly (Includes O-Ring)		E500D-ATEX	
6	1	Reducing End Cap Assembly (Includes 560.0580.360 O-Rings)	E	500DUBASY	
7	2	Staple		E500F	
8	1	CT Air Diverter	· · · · · · · · · · · · · · · · · · ·	10-075	
9	1	Air Diverter Plate		E500H	
10	1	Air Valve Gasket		360.V003.360	
11	4	Valve Mounting Screws		S1001	
		Center Section			
Item #	Qty.	Description		Part Number	
12	1	Center Section		E501A-SC	
13 14	8	Pilot Spool ASY (Includes Item #14) Pilot Spool O-Rings		75.V003.000 560.023.360	
14	0	Pilot Spool O-Rings Pilot Valve Sleeve ASY (Includes Item #16)		755.V003.000	
16	6	Pilot Valve Sleeve AST (Includes item #10) Pilot Valve Sleeve O-Rings		560.033.360	
17	2	Shaft/Pilot Retainer	f f	600.000.000.000 670.V001.554	
18	4	Retainer Screw		E501C	
19	1	Muffler		530.035.000	
		Diaphragm Assemb			
Item #	Qty.	Description		Part Number	
	-	•	TPE/RUBBER	PTFE 2-Piece	PTFE Fusion
<u>20</u> 21	2	Main Shaft O-Ring		E502B E502A	
		Main Shaft	"E505xx		T
22	2	Diaphragm	(See Below Material Chart)"	E505TF	E505F
23	2	Back-Up Diaphragm	N/A	E505N	N/A
24	2	Inner Diaphragm Plate	V1990		N/A
25	2	Outer Diaphragm Plate	PV199		N/A
26	4	Valve Seat O-Ring	"E510xx	E510TEV, E510TE	S V110TE
		•	(See Below Material Chart) "		
27	4	Manifold Seal	N/A "V111xx	E510TF	
28	4	Valve Ball	(See Below Material Chart)"	V111SS, V1	11TF
	1	Wet End As	sembly		
ltere #	0.54			Part Number	
Item #	Qty.	Description	Conductive Polypropylen		ve Acetal
29	2	Water Chamber	PE519-ATEX		519
30	16	Water Chamber Bolt		SV187A	
31	16	Water Chamber Washer	ļ	SV189C	
32	16	Water Chamber Nut		SV185B	500
<u>33</u> 34	4 4	Valve Ball Cage Valve Ball Seat	PE522-ATEX PE521-ATEX	CE CE	
		"Discharge Manifold Assembly			
35	1	(Includes Plugs)"	PE520-ATEX ASY	CE52	0 ASY
36	1	"Suction Manifold Assembly	PE520F-ATEX ASY	0000	
	·	(Includes Plugs)"	FEDZUF-ATEX AST		IF ASY
37	4	Manifold Plugs		PS80-8NP	
38	8	Manifold Bolts	SV189D		
31	8	Manifold Washer	SV189C		
39	8	Manifold Nut Elastomer Material	Specifications	SV164D	
		Material	Diaphragm P/N	Valve Ball P/N	O-Ring P/N
		Neoprene	E505N		
	Buna Nitrile		E505BN	V111BN	V110BN
Viton		E505VT	V111VT	V110VT	
	Nordel		E505ND		V110ND
Santoprene		E505XL	V111TPEXL	V110XL	
	Hytrel		E505FG	V111TPEFG	
		Geolast		V111G	
		Acetal	<u>                                     </u>	V111A V111PU	
Polyurathane Stainless Steel				V111SS	+



3: EXP VIEW

### Written Warranty

## 5 - YEAR Limited Product Warranty

### Quality System ISO9001 Certified • Environmental Management Systems ISO14001 Certified

Versa-Matic warrants to the original end-use purchaser that no product sold by Versa-Matic that bears a Versa-Matic brand shall fail under normal use and service due to a defect in material or workmanship within five years from the date of shipment from Versa-Matic's factory.

~ See complete warranty at http://www.versamatic.com/pdfs/VM%20Product%20Warranty.pdf ~

### **DECLARATION OF CONFORMIT**

DECLARATION DE CONFORMITE • DECLARACION DE CONFORMIDAD • ERKLÄRUNG BEZÜGLICH EINHALTUNG DER VORSCHRIFTEN DICHIARAZIONE DI CONFORMITÀ • CONFORMITEITSVERKLARING • DEKLARATION OM ÖVERENSSTÄMMELSE EF-OVERENSSTEMMELSESERKLÆRING • VAATIMUSTENMUKAISUUSVAKUUTUS • SAMSVARSERKLÄRING DECLARAÇÃO DE CONFORMIDADE

#### **MANUFACTURED BY:**

FABRIQUE PAR: FABRICADA POR: HERGESTELLT VON: FABBRICATO DA: VERVAARDIGD DOOR: TILLVERKAD AV: FABRIKANT: VALMISTAJA: PRODUSENT: FABRICANTE

**VERSA-MATIC®** Warren Rupp, Inc. A Unit of IDEX Corporation 800 North Main Street P.O. Box 1568 Mansfield, OH 44901-1568 USA

Tel: 419-526-7296 Fax: 419-526-7289



### PUMP MODEL SERIES: E SERIES, V SERIES, VT SERIES, VSMA3, SPA15, **RE SERIES AND U2 SERIES**

#### This product complies with the following European Community Directives:

Ce produit est conforme aux directives de la Communauté européenne suivantes: Este producto cumple con las siguientes Directrices de la Comunidad Europea: Dieses produkt erfüllt die folgenden Vorschriften der Europäischen Gemeinschaft: Questo prodotto è conforme alle seguenti direttive CEE: Dir produkt voldoet aan de volgende EG-richtlijnen: Denna produkt överensstämmer med följande EU direktiv:

Versa-Matic, Inc., erklærer herved som fabrikant, at ovennævnte produkt er i overensstemmelse med bestemmelserne i Direkktive:

Tämä tuote täyttää seuraavien EC Direktiivien vaatimukstet:

Dette produkt oppfyller kravene til følgende EC Direktiver:

Este produto está de acordo com as seguintes Directivas comunitárias:

#### This product has used the following harmonized standards to verify conformance:

Ce materiel est fabriqué selon les normes harmonisées suivantes, afin d' en garantir la conformité:

Este producto cumple con las siguientes directrices de la comunidad europa: Dieses produkt ist nach folgenden harmonisierten standards gefertigtworden, die übereinstimmung wird bestätigt:

Questo prodotto ha utilizzato i seguenti standards per verificare la conformita':

De volgende geharmoniseerde normen werden gehanteerd om de conformiteit van dit produkt te garanderen:

För denna produkt har följande harmoniserande standarder använts för att bekräfta överensstämmelse:

Harmoniserede standarder, der er benyttet:

Tässä tuotteessa on sovellettu seuraavia yhdenmukaistettuja standardeja:

Dette produkt er produsert i overenstemmelse med fløgende harmoniserte standarder:

Este produto utilizou os seguintes padrões harmonizados para varificar conformidade:

#### AUTHORIZED/APPROVED BY:

Approuve par: Aprobado por: Genehmigt von: approvato da: Goedgekeurd door: Underskrift: Valtuutettuna: Bemyndiget av: Autorizado Por:

04/19/2012 REV 07



Dave Roseberry Engineering Manager

DATE: August 10, 2011 FECHA: DATUM:

DATA:

DATO:

PÄIVÄYS:

VMOR 044EM

Model E5 Non-Metallic Bolted • 10

on Machinery, according to Annex VIII

2006/42/EC

### EN809:1998+ A1:2009

### DECLARATION OF CONFORMITY WITH ATEX 95 DIRECTIVE



Date of Issue:	22 April, 2008
Reference No:	03022-05-XXH
Quality System Registration No:	ISO 9001-2000
Directive:	94/9/EC 23 March 1994 Annex VIII
Conforming Apparatus:	Air-Operated Conductive Polypropylene and Conductive Acetal Double Diaphragm Pumps for use in Potentially Explosive Atmospheres
Hazardous Location Applied:	1. II 3/2GD c T6 T6 fluids up to 80° C
Manufacture:	Warren Rupp, Inc., A Unit of IDEX Corporation 800 North Main Street, P.O. Box 1568 Mansfield, OH 44901-1568 USA
On File With:	LCIE 33, avenue du Général Leclerc F 92260 Fontenay-aux-Roses FRANCE
Harmonized Standards Applied:	BS EN 13463-1:2001 Non-Electrical Equipment Potentially Explosive Atmospheres-Part 1 Basic Methods and Requirements prEN 13463-5 Non-Electrical Equipment for Potentially Explosive Atmospheres-Part 5 Protection by Constructional Safety

We hereby certify that the above apparatuses described above conforms with the protection requirements of Council Directive 94/9/EC of 23 March 1994 Annex VIII on the approximation of the laws of the Member States Concerning Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres

DATE/OF REVISION/TITLE: 27 May 2010

David Reseberry

Dave Roseberry Engineering Manager





### DECLARATION OF CONFORMITY WITH ATEX 95 DIRECTIVE



Date of Issue:

Reference No:

Equipments:

Quality System Registration No:

22 April, 2008

03022-05-XXH Page 2 of 2

ISO 9001-2000

 Elima-Matic Series with any of the following materials of construction are rated to II 3/2GD c T6:

Conductive Polypropylene and Conductive Acetal fluid housings with Aluminum or Stainless Steel air center sections





# **Genuine Parts, Real Value**



Example Data:

Repair = 1 hour • Pump model #: E2AA2D220-OE • Buna wet-end repair Labor rate fully burdened at \$125/hour • Lost product assumes paint



WWW.VERSAMATIC.COM

• Improve parts availability

• Extended service life