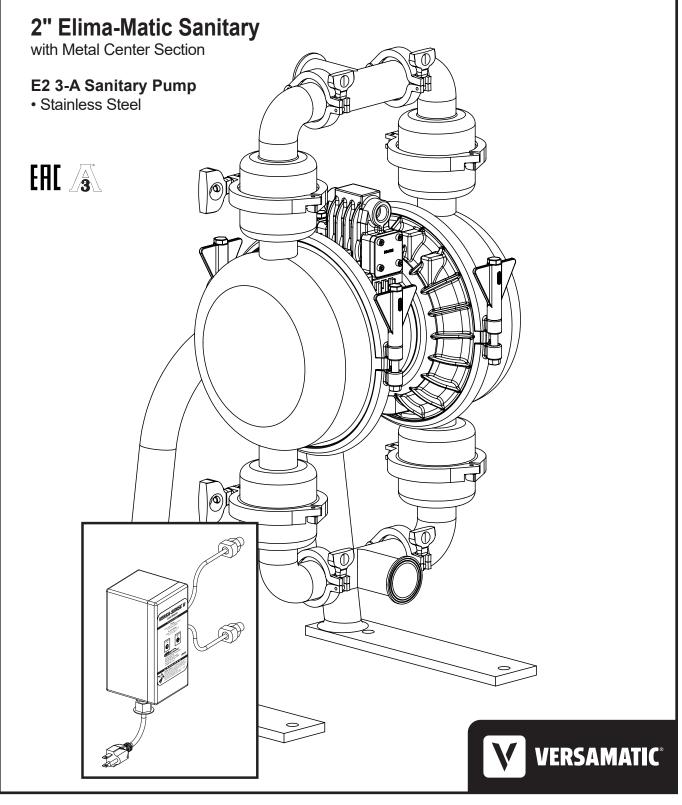
SERVICE & OPERATING MANUAL

E2

ORIGINAL INSTRUCTIONS



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.

A CAUTION



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.



Plastic 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

Pump not designed, tested or certified to be powered by compressed natural gas. Powering the pump with natural gas will void the warranty.



WARNING

The use of non-OEM replacement parts will void (or negate) agency certifications, including CE, ATEX, CSA, 3A and EC1935 compliance (Food Contact Materials). Warren Rupp, Inc. cannot ensure nor warrant non-OEM parts to meet the stringent requirements of the certifying agencies.

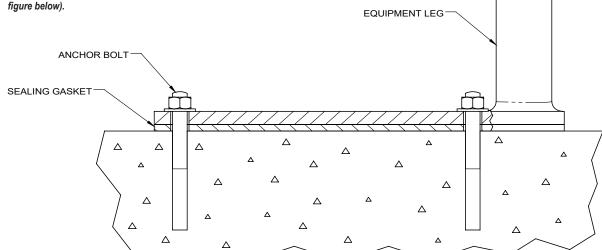


WARNING

Do not operate pump in a sterilization system as described in 3A standard 44-03 section D14.3



Place gasket between pump foot and mounting surface to keep interface clean of debri (Refer to



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 and piping connections are in good condition and are reinstalled properly during reassembly.



Use safe practices when lifting



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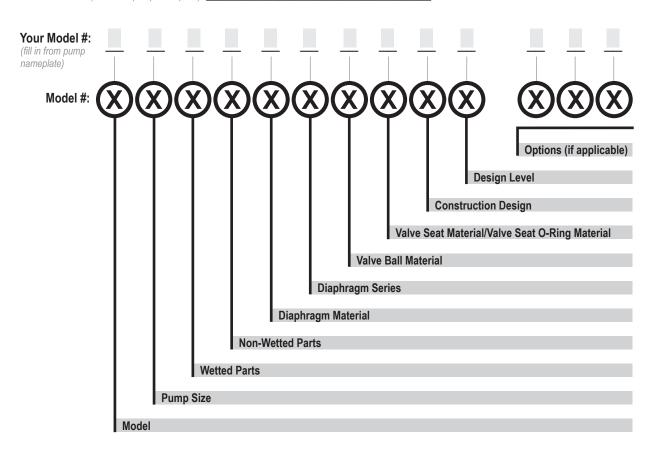
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Explanation of Pump Nomenclature

Your Serial #: (fill in from pump nameplate)



Model	Pump Size	Wetted Parts	Non-Wetted Parts	Diaphragm Material
E Elima-Matic	6 1/4"	A Aluminum	A Aluminum	1 Neoprene
U Ultra-Matic	8 3/8"	C Cast Iron	S Stainless Steel	2 Nitrile (Nitrile)
V V-Series	5 1/2"	S Stainless Steel	P Polypropylene	3 FKM (Fluorocarbon)
	7 3/4"	H Alloy C	G Groundable Acetal	4 EPDM
	1 1"	P Polypropylene	Z PTFE-coated Aluminum	5 PTFE
	4 1-1/4" or 1-1/2"	K Kynar	J Nickel-plated Aluminum	6 Santoprene XL
	2 2"	G Groundable Acetal	C Cast Iron	7 Hytrel
	3 3"	B Aluminum (screen mount)	Q Epoxy-Coated Aluminum	Y FDA Santoprene

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)

6 Santoprene XL
7 Hytrel
8 Polyurethane
A Acetal
S Stainless Steel
Y FDA Santoprene
•

Valve Ball Material Valve Seat/Valve Seat O-Ring Material 1 Neoprene 1 Neoprene 2 Nitrile 2 Nitrile 3 (FKM) Fluorocarbon 3 (FKM) Fluorocarbon 4 EPDM 4 EPDM 5 PTFE **5** PTFE 6 Santoprene XL

> 7 Hytrel 8 Polyurethane 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 Y FDA Santoprene

Construction Design Miscellaneous Options

9 Bolted **B** BSP Tapered Thread 0 Clamped **CP** Center Port **ATEX** ATEX Compliant

Design Level Α C

FP Food Processing **SP** Sanitary Pump **HP** High Pressure **OE** Original Elima-Matic F Flap Valve **HD** Horizontal Discharge 3A 3-A Certified **UL** UL Listed

OB Oil Bottle

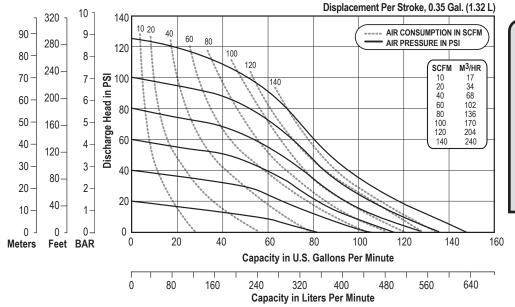


^{*}More than one option may be specified for a particular pump model.

Performance

E2 - 2" 3-A Sanitary Pump – Metal Center PTFE FITTED

Flow Rate
Adjustable to 0-147 gpm (556 lpm)
Port Size
Suction 2" TRI-CLAMP
Discharge 2" TRI-CLAMP
Air Inlet
3/4"NPT (Stainless Steel Centers ONLY)
Air Exhaust
Suction Lift
Dry
Wet27' (8.2 m)
Max Solid Size (Diameter)
5/8" (15.8 mm)
Max Noise Level
Shipping Weights
Stainless



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

Materials

Material Profile: CAUTION! Operating temperature limitations are as follows:		Operating Temperatures:	
		Min.	
Virgin PTFE: (PFA/TFE) Chemically inert, virtually impervious. Very few chemicals are known to chemically react with PTFE; 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.	220°F 104°C	-35°F -37°C	

Maximum and Minimum Temperatures are the limits for which these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.

Metals:

Stainless Steel: Equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.

For specific applications, always consult the Chemical Resistance Chart.

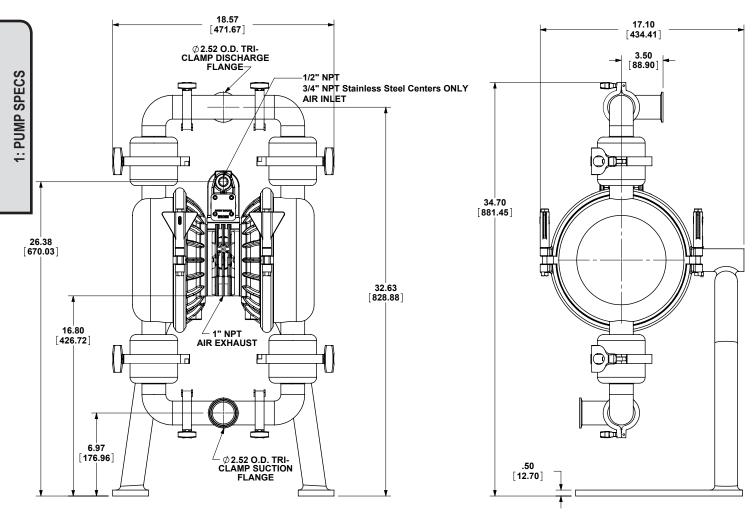


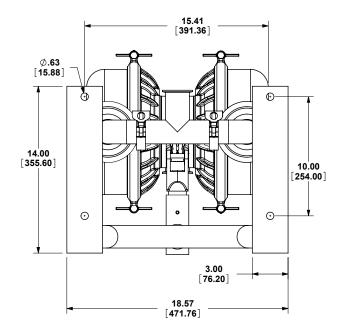
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Dimensional Drawings

E2 3-A Sanitary

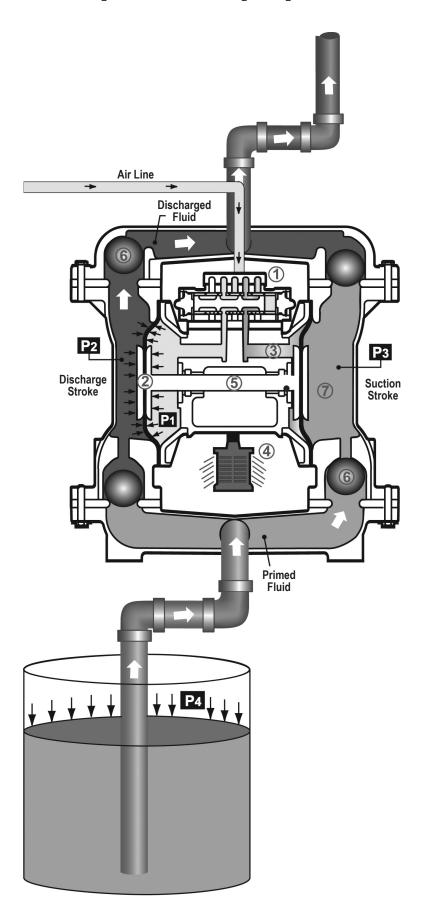
Dimensions in inches (mm dimensions in brackets)
The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.







Principle of Pump Operation



WWW.VERSAMATIC.COM

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

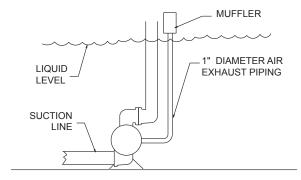
The main directional (air) control valve ① distributes compressed air to an air chamber, exerting uniform pressure over the inner surface of the diaphragm ②. At the same time, the exhausting air ③ from behind the opposite diaphragm is directed through the air valve assembly(s) to an exhaust port ④.

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 T.

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.

SUBMERGED ILLUSTRATION



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.



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Recommended Installation Guide

Available Accessories: 1. Surge Suppressor Unregulated Air Supply to Surge 2. Filter/Regulator Suppressor (1) Surge Suppressor Pressure Gauge **Note**: Surge Suppressor and Piping, including air line, Shut-Off Valve must be supported after Pipe Connection (Style Optional) the flexible connections. Discharge Flexible Connector Check Valve Shut Off Drain Po Muffler Valve (Optional Piped Exhaust) Air Inlet Flexible Connector Compound (2) Filter Regulator Gauge Flexible Connection (3) Dryer Suction (4) Lubricator **CAUTION** Shut-Off Valve The air exhaust should Pipe Connection be piped to an area **Drain Port** (Style Optional) for safe disposition of the product being pumped, in the event of a diaphragm failure.

Installation And Start-Up

3. Air Dryer 4. Lubricator

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 designed, 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.



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).
	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 assembly.
	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.
Flow Unsatisfactory	Clogged manifolds.	Clean manifolds to allow proper air flow
Tion Giloudiology	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 compatibility with 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



Pump Inspection and Cleaning

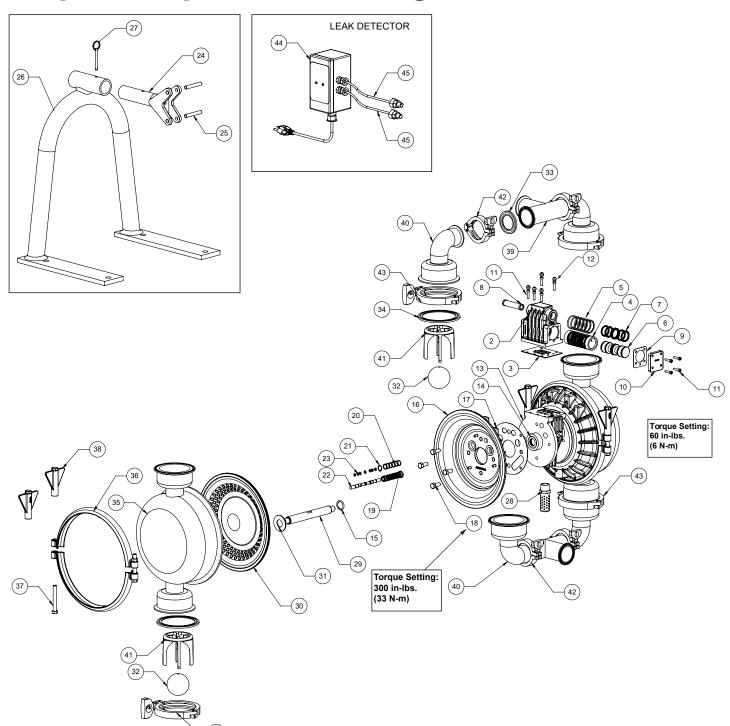
The Elima-Matic sanitary pump can be cleaned using several techniques. However, it is important to follow guidelines set by the IAMFES, the USPHS, and the DIC and/or internal rules for inspection, cleaning and sanitization. Remove the valve balls and ball cages from the pump and clean components separate from the pump.

If the pump is to be steam cleaned, disconnect the suction line from the pump. Connect the steam line to the pump inlet. Maintain the flow of steam through the pump for at least five minutes after the temperature at the outlet has reached 200°F (94°C).

Hot water may also be used. Pump water that is maintained at minimum of 170°F (77°C) through the pump for at least five minutes. Please note that the maximum cleaning temperature of the pump is 220° (104°C).

Chemical cleaning may also be used in sanitizing the pump. Be sure to consult your distributor or the manufacturer to verify that the elastomer(s) used in the pump are compatible with the chemicals being used in the cleaning process.

Composite Repair Parts Drawing



Composite Repair Parts List

		Air Valve A	ssembly			
Item # Qtv.		Description —	Part Number			
item#	Qty.	·	Stainless Steel	Nickle Plated		
		Air Side Repair Kit (Includes Items	Air Side Repair Kit (Includes Items 476.V019.000			
1	1	3,5,7,9,15,17,19-23) Valve Body (includes items 2-11)	031.V002.110	031.V002.332		
2	1	Valve Body (includes items 2-11) Valve Body	095.V001.110	095.V001.332		
3	1	Valve Body Gasket	P24-20			
4	1	Valve Blody Gasket Valve Sleeve	755.V006			
5	6	O-ring				
6	1	Valve Spool Assembly (Includes items 7)	560.206.360 775.V001.000			
7	6	Glyde Ring Assembly	P34-20			
8	1	Air Valve Screen	P34-210	P24-210		
9	2	End Cap Gasket	P24-20			
10	2	End Cap	SP34-3			
11	13	Mounting Screws (8 included on item 1)	S100			
12	5	Cap	165.161	.000		
		Center Section				
Item #	Qty.	Description -	Part Nur			
		·	Stainless Steel	Nickle Plated		
13	1	Center Block Assembly (Includes item 14 & 15)	SP24-400 3A	P24-4003ANP ASY		
14	2	Bearing Sleeve	P31-41 P24-41			
15 16	2	Main Shaft O-Ring Air Chamber				
			196.V002.110 3A			
17 18	2 8	Air Chamber Gasket Bolt	360.V001.360			
10	0	Pilot Repair Kit (Includes Items 19-23)	SP24-110			
19	1	Pilot Sleeve Assembly (include item 20)	476.V018.000 755.V002.000			
20	6	O-ring				
21	1	Retaining Ring	560.101.358 675.037.080			
22	1	Pilot Spool Assembly (Includes item 23)	775.V002			
23	8	O-ring	560.023			
24	1	Stand Attachment	SP24-6			
25	2	Stand Attachment Pin	P29-6			
26	1	Stand	SP29-65			
27	1	Stand Locking Pin	P29-6			
28	1	Muffler	530.033.000			
		Diaphragm Assem	bly / Elastomers			
Item #	Qty.	Description Part Number				
29	1	Main Shaft	P24-10			
30	2	Diaphragm	V224F			
31	2	Bumper Washer	P24-501			
32	4	Valve Ball	V241TF			
33	4	Manifold Tee Seal	V275TF			
34	4	Manifold Elbow Seal Wet End A	V2767			
Item #	Qty.	Description Wet End A		nher		
35	2	Water Chamber				
36	4	Large Clamp Half	SV230A			
37	4	Bolt	SV230C			
38	4	Wing Nut	FG30D			
39	2	ManifoldTee	D29-238			
40	4	Manifold Elbow	D29-237			
41	4	Ball Cage	670.V003.110			
42	4	Manifold Elbow Clamp	V275A			
43	4	Manifold Tee Clamp	V276A			
44	1	Leak Detector P29-800				
45	2	Leak Detector Probe	P29-804			

Notes:



^{1.)} The inner diaphragm plate material is to match the air chamber material (Ref. Note 3) SV=Stainless Steel, NP=Nickle Plated

Material Codes - The Last 3 Digits of Part Number

- 000.....Assembly, sub-assembly; and some purchased items
- 010.....Cast Iron
- 015.....Ductile Iron
- 020.....Ferritic Malleable Iron
- 080.....Carbon Steel, AISI B-1112
- 110.....Alloy Type 316 Stainless Steel
- 111Alloy Type 316 Stainless Steel (Electro Polished)
- 112.....Alloy C
- 113.....Alloy Type 316 Stainless Steel (Hand Polished)
- 114.....303 Stainless Steel
- 115.....302/304 Stainless Steel
- 117.....440-C Stainless Steel (Martensitic)
- 120.....416 Stainless Steel (Wrought Martensitic)
- 148..... Hardcoat Anodized Aluminum
- 150.....6061-T6 Aluminum
- 152.....2024-T4 Aluminum (2023-T351)
- 155.....356-T6 Aluminum
- 156.....356-T6 Aluminum
- 157.....Die Cast Aluminum Alloy #380
- 158.....Aluminum Alloy SR-319
- 162.....Brass, Yellow, Screw Machine Stock
- 165.....Cast Bronze, 85-5-5-5
- 166.....Bronze, SAE 660
- 170.....Bronze, Bearing Type, Oil Impregnated
- 180.....Copper Alloy
- 305.....Carbon Steel, Black Epoxy Coated
- 306.....Carbon Steel, Black PTFE Coated
- 307.....Aluminum, Black Epoxy Coated
- 308.....Stainless Steel, Black PTFE Coated
- 309.....Aluminum, Black PTFE Coated
- 313.....Aluminum, White Epoxy Coated
- 330.....Zinc Plated Steel
- 332.....Aluminum, Electroless Nickel Plated
- 333.....Carbon Steel, Electroless Nickel Plated
- 335.....Galvanized Steel
- 337.....Silver Plated Steel
- 351.....Food Grade Santoprene®
- 353.....Geolast; Color: Black
- 354..... Injection Molded #203-40
- Santoprene® Duro 40D +/-5;
- Color: RED 356.....Hytrel®
- 357.....Injection Molded Polyurethane
- 358.....Urethane Rubber (Some Applications) (Compression Mold)
- 359..... Urethane Rubber
- 360.....Nitrile Rubber Color coded: RED
- 363.....FKM (Fluorocarbon)
 Color coded: YELLOW

- 364.....EPDM Rubber
 - Color coded: BLUE
- 365.....Neoprene Rubber Color coded: GREEN
- 366.....Food Grade Nitrile
- 368.....Food Grade EPDM
- 371.....Philthane (Tuftane)
- 374.....Carboxylated Nitrile
- 375.....Fluorinated Nitrile
- 378.....High Density Polypropylene
- 379.....Conductive Nitrile
- 408.....Cork and Neoprene
- 425.....Compressed Fibre
- 426.....Blue Gard
- 440.....Vegetable Fibre
- 500.....Delrin® 500
- 502.....Conductive Acetal, ESD-800
- 503.....Conductive Acetal, Glass-Filled
- 506.....Delrin® 150
- 520.....Injection Molded PVDF
 - Natural color
- 540.....Nylon
- 542.....Nylon
- 544.....Nylon Injection Molded
- 550.....Polyethylene
- 551.....Glass Filled Polypropylene
- 552.....Unfilled Polypropylene
- 555.....Polyvinyl Chloride
- 556.....Black Vinyl
- 558.....Conductive HDPE
- 570.....Rulon II®
- 580.....Ryton®
- 600.....PTFE (virgin material)
 Tetrafluorocarbon (TFE)
- 603.....Blue Gylon®
- 604.....PTFE
- 606.....PTFE
- 607.....Envelon
- 608.....Conductive PTFE
- 610.....PTFE Encapsulated Silicon
- o 10.....F TFE Elicapsulated Silicol
- 611.....PTFE Encapsulated FKM
- 632....Neoprene/Hytrel®
- 633.....FKM/PTFE 634.....EPDM/PTFE
- 635.....Neoprene/PTFE
- 637.....PTFE, FKM/PTFE
- 638.....PTFE, Hytrel®/PTFE
- 639.....Nitrile/TFE
- 643.....Santoprene®/EPDM
- 644.....Santoprene®/PTFE
- 656.....Santoprene® Diaphragm and Check Balls/EPDM Seats
- 661.....EPDM/Santoprene®
- 666.....FDA Nitrile Diaphragm,
- PTFE Overlay, Balls, and Seals 668.....PTFE, FDA Santoprene®/PTFE

- Delrin and Hytrel are registered tradenames of E.I. DuPont.
- Nylatron is a registered tradename of Polymer Corp.
- Gylon is a registered tradename of Garlock. Inc.
- Santoprene is a registered tradename of Exxon Mobil Corp.
- Rulon II is a registered tradename of Dixion Industries Corp.
- Ryton is a registered tradename of Phillips Chemical Co.
- Valox is a registered tradename of General Electric Co.

RECYCLING

Warren Rupp, manufacturer of Versamatic, is an ISO14001 registered company and is committed to minimizing the impact our products have on the environment. Many components of Versamatic® AODD pumps are made of recyclable materials. We encourage pump users to recycle worn out parts and pumps whenever possible, after any hazardous pumped fluids are thoroughly flushed. Pump users that recycle will gain the satisfaction to know that their discarded part(s) or pump will not end up in a landfill. The recyclability of Versamatic products is a vital part of Warren Rupp's commitment to environmental stewardship.



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Model E2 3-A Sanitary • 12

5 - YEAR Limited Product Warranty

Quality System ISO9001 Certified • Environmental Management Systems ISO14001 Certified

Versamatic warrants to the original end-use purchaser that no product sold by Versamatic that bears a Versamatic 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 Versamatic's factory.

The use of non-OEM replacement parts will void (or negate) agency certifications, including CE, ATEX, CSA, 3A and EC1935 compliance (Food Contact Materials). Warren Rupp, Inc. cannot ensure nor warrant non-OEM parts to meet the stringent requirements of the certifying agencies.

~ See complete warranty at http://vm.salesmrc.com/pdfs/VM Product Warranty.pdf

DECLARATION OF CONFORMITY

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

MANUFACTURED BY:

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

FABRICANTE:

VERSAMATIC ® 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



2006/42/EC

EN809:2012

to Annex VIII

on Machinery, according

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:

Versamatic, 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 siquientes 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:

 $\label{thm:product} \mbox{ Dette produkt er produsert i overenstemmelse med fløgende harmoniserte standarder:}$

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:

Dave Roseberry Director of Engineering

Authorized Representative: IDEX Pump Technologies R79 Shannon Industrial Estate, Shannon, Co. Clare Ireland Attn: Barry McMahon

06/14/2017 REV 08

DATE: February 27, 2017

FECHA: DATUM: DATA: DATO: PÄIVÄYS:

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VMQR 044FM

e2mdlCsm3A-rev1219



Warren Rupp, Inc.

800 North Main St., Mansfield, OH 44901-1568

is hereby authorized to continue to apply the 3-A Symbol to the models of equipment, conforming to 3-A Sanitary Standards for:

Number 44-03 44-03 (Diaphragm Pumps)

set forth below

Both CIP and COP Models: E2SJ5F5S0C-3A, E2SS5F5S0C-3A, and E4SJ5F5S0-3A.

VALID THROUGH: December 31, 2022

Timothy R. Rugh Executive Director 3-A Sanitary Standards, Inc.

The issuance of this authorization for the use of the 3-A Symbol is based upon the voluntary certification, by the applicant for it, that the equipment listed above complies fully with the 3-A Sanitary Standard(s) designated. Legal responsibility for compliance is solely that of the holder of this Certificate of Authorization, and 3-A Sanitary Standards, Inc. does not warrant that the holder of an authorization at all times complies with the provisions of the said 3-A Sanitary Standards. This in no way affects the responsibility of 3-A Sanitary Standards, Inc. to take appropriate action in such cases in which evidence of nonconformance has been established.

NEXT TPV INSPECTION/REPORT DUE: October 2022