

Versa-Matic[®], IDEX Corp, Inc. • A Unit of IDEX Corp. • 800 North Main Street, P.O. Box 1568 Mansfield, Ohio 44901-1568 USA • TEL (419) 526-7296 • Fax (419) 526-7289 www.versamatic.com OM-E1MPB-0509-FDA

Operating and Service Manual Model 1" Elima-Matic[™] Food Processing Pumps

Table of Contents

Warnings, Cautions & Notices	1
Model Numbers Identification	2
Specifications & Performance	
Installation, Operation & Maintenance	4
Troubleshooting	5
Parts List	6
Pump Drawing, Exploded View	7
Pump Drawling, Detailed View	
Materials, Temperature Limits & Compatibility	9
Product Warranty	10
Pumper Parts	11
Declaration of Conformity	12
Notes	13



WARNINGS, CAUTIONS & NOTICES

Please read all cautions, warnings and notes completely before installation and start-up. It is the responsibility of the purchaser to retain this manual for reference. Failure to comply with the recommendations stated in this manual may damage the pump and void the factory warranty.

WARNINGS						
To prevent static sparking the pump, piping, valves, and containers must be grounded. Fire or explosion can occur when handling flammable fluids and whenever discharge of static electricity is a hazard.	Pump exhaust may contain contaminants that can cause serious injury. Take precautions to pipe exhaust away from work area if pumping chemicals, hazardous or flammable materials.					
CAU1	IONS					
You must check the tightness of all hardware prior to installation.	Do not exceed the maximum inlet air pressure as stated on the pump model tag.					
Maximum temperature limits are based on mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. For chemical compatibility and temperature limits please refer to the Chemical Resistance Guide.	Disconnect the compressed air line to the pump and allow all air pressure to bleed from pump prior to performing any maintenance on the pump. Disconnect all intake, discharge and air lines. Drain the pump and dispose of fluid into a suitable container.					
Check temperature limits for all wetted components when choosing pump materials. Temperature limits may vary depending on the material.	All operators of the equipment should be properly trained to ensure safe working practices.					
The process fluid and cleaning fluids must be chemically compatible with all wetted pump components. Please refer to the Chemical Resistance Guide for additional information.	Never allow the piping system to be supported by the pump manifolds or valve housing. These components are not designed to support structural weight and pump failure may result					
Thoroughly flush pump before installing into process lines. FDA and sanitary approved pumps should be cleaned or sanitized before use.	Noise levels can exceed 85 dBA. Always wear ear and eye protection when operating or repairing pumps.					
NOT	ICES					
Blow out air line for at least 15 seconds before attaching to pump to make sure that all debris is removed. Use an in-line air filter.	Compressed air should not be applied to the exhaust port. If this happens the pump will not function.					
Clamp style pumps fitted with PTFE or XLTPE come standard from the factory with expanded PTFE liquid chamber gaskets. PTFE gaskets cannot be reused.	Before disassembly of clamp band pumps, mark a line from each liquid chamber to its corresponding air chamber. This will ensure proper alignment when reassembling.					
Tighten both outer pistons at the same time to ensure a tight fit when installing PTFE diaphragms. See torque settings for additional details.	The pump does not require continuous lubrication.					



Model	Pump Size	Wetted Parts
E Elima-Matic	6 1/4"	A Aluminum
U Ultra-Matic	8 3/8"	C Cast Iron
V V-Series	5 1/2"	S Stainless Steel
	7 3/4"	H Hastellov C
	1 1"	P Polypropylene
	4 1-1/4" or 1-1/2"	K PVDF
	2 2"	G Groundable Ace
	3 3"	B Aluminum (scree
Diaphragm Series	Valve Ball Material	Valve Seat/Valv
R Rugged	1 Neoprene	1 Neoprene
D Dome	2 Buna-N	2 Buna-N
X Thermo-Matic	3 (FKM) Fluorocarbon	3 (FKM) Fluorocarl
T Tef-Matic (2-piece)	4 Nordel	4 Nordel
B Versa-Tuff (1-piece)	5 PTFE	5 PTFE

6 XL

7 Hytrel 8 Polyurethane

9 Geolast

S Stainless Steel

A Acetal

XΤ

- T
- **B** Versa-Tuff (1-piece)
- F FUSION (one-piece integrated plate)

C Cast Iron etal en mount) **Q** Epoxy-Coated Aluminum **9** Geolast

A Aluminum

Stainless Steel

P Polypropylene

G Groundable Acetal

Z PTFE-coated Aluminum

J Nickel-plated Aluminum

e Seat O-ring Material

- bon 5 PTFE 6 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** Hastellov C w/ PTFE O-rings
- **T** PTFE Encapsulated Silicone O-rings

Diaphragm Material

- **1** Neoprene 2 Buna-N **3** (FKM) Fluorocarbon 4 Nordel
- 5 PTFE
- 6 XL
- 7 Hvtrel

Construction Design

- 9 Bolted
- **0** Clamped

E1MP FDA SPECIFICATIONS & PERFORMANCE

Specifications

Flow Rate adjustable to . . . 0-35 gpm (132 lpm) Port Size

Inlet and Discharge	1.5" Tri-Clamp
Air Inlet	0.375" NPT
Air Exhaust	0.50" NPT
Suction Lift 15' Dry/2	5' Wet (4.57m/7.62m)
PTFE10' Dry/2	0' Wet (3.05m/6.10m)
Max. Particle Size (Diamet	er). 0.125"(3.17mm)
Shipping Weights	
Of C Otaliala as Otal	10 lbs (10 05 lcs)

316 Stainless Steel 42 lbs (19.05 kg)



Performance



NOTE: For E1 pumps fitted with PTFE diaphragms, reduce water discharge figures by 20%. Suction lift is reduced to 10' (3.05m) dry and 20' (6.10m) wet.

CAUTION: Do not exceed 125 psig (8.5 bars) air supply or liquid pressure.

Dimensions







Front

Side

Bottom

Inches [mm]

Consult factory for certified drawings.

INSTALLATION, OPERATION & MAINTENANCE

Installation

The pump should be mounted in a vertical position. In permanent installations, the pump should be attached to plant piping using a flexible

Pump Operation

The pump is powered by compressed air. Compressed air is directed to the pump air chamber by the main air valve. The compressed air

coupling on both the intake and discharge connections to reduce vibration to the pump and piping. To further reduce vibration, a surge suppressor next to the pump may be used.

Suction pipe size should be at least the same diameter as the inlet connection size, even larger if highly viscous fluid is to be pumped. If suction hose is used, it must be of a non-collapsible reinforced type. Discharge piping should

be of at least the same diameter as the discharge connection. It is critical, especially on the suction side of the pump, that all fittings and connections are air tight or pumping efficiency will be reduced and priming will be difficult.

Make certain the air supply line and connections and compressor are capable of supplying the required pressure and volume of air to operate the pump at the desired flow rate. The quality of the compressed air source should be considered. Air that is contaminated with moisture and dirt may result in erratic pump performance and increased maintenance cost as well as frequent process "down time" when the pump fails to operate properly.



is separated from the fluid by a membrane called a diaphragm. The diaphragm in turn applies pressure on the fluid and forces it out of the pump discharge. While this is occurring, the opposite air chamber is depressurized and exhausted to atmosphere and fluid is drawn into the pump suction. The cycle again repeats, thus creating a constant reciprocating action which maintains flow through the pump. The flow is always in through the bottom

suction connection and out through the top discharge connection. Since the air pressure acts directly on the diaphragms, the pressure applied to the fluid roughly approximates the air supply pressure supplied to the main air valve.

Recommended Piping Connections						
Pump Size	Minimum Air Line Size	Minimum Suction Line Size				
1/4"	1/4"	1/4"				
3/8"	1/4"	3/8"				
1/2"	1/2"	1/2"				
1"	1/2"	1"				
1-1/2"	1/2"	1-1/2"				
2"	1/2"	2"				
3"	3/4"	3"				

TROUBLESHOOTING

Symptom	Potential Cause(s)	Recommendation(s)
Pump cycles once	 Incorrect pilot o-ring placement Inner diaphragm plate installed backwards Deadhead (system pressure meets or exceeds air supply pressure) Air valve or center block gaskets installed incorrectly 	 Reinstall pilot o-rings in correct positions Reinstall inner diaphragm plate correctly Check system for pressure ratio to pump Install gaskets with holes properly aligned
Pump will not operate	 Pump is over lubricated Lack of air (line size, PSI, CFM) Worn o-rings Wrong type of lubrication (attack on o-rings) Debris in air valve Clogged manifolds Incorrect o-ring placement Deadhead (system pressure meets or exceeds air supply pressure) 	 Set lubricator on lowest possible setting or remove Elima-Matic is designed for lube free operation Check the air line size and length, compressor capacity (HP vs. cfm required) Replace o-rings Check compatibility of o-rings with lubrication Clean air valve/filter Clean suction or discharge manifolds/piping Reinstall o-rings in correct position Increase air supply pressure
Pump cycles and will not prime or flow	 Cavitation on suction side Valve ball(s) not seating properly or sticking Valve ball(s) missing (pushed into chamber) Valve ball(s)/seat(s) damaged or attacked by product Clogged suction line 	 Check suction condition (move pump closer to product) Clean out around valve ball cage and valve seat area Replace valve ball or valve seat if damaged Use heavier valve ball material Worn valve ball or valve seat Worn fingers in valve ball cage (replace part) Check Chemical Resistance Guide for compatibility Clean suction manifold and/or piping
Pump running sluggish/stalling	 Over lubrication lcing Clogged manifolds Deadhead (system pressure meets or exceeds air supply pressure) Cavitation on suction side Lack of air (line size, PSI, CFM) 	 Set lubricator on lowest possible setting or remove Elima-Matic is designed for lube free operation Clean or replace exhaust muffler Clean manifolds to allow proper air flow Check system to locate deadhead (equilibrium) Increase air supply pressure Check suction (move pump closer to product) Check the air line size, length, compressor capacity
Product leaking through exhaust	 Diaphragm failure, or diaphragm plates loose Diaphragm stretched around center hole or bolt holes Excessive air supply pressure 	 Replace diaphragms, check for damage and ensure diaphragm plates are tight Check for excessive inlet pressure or air pressure Tighten bolts to recommended torque Check Operating Manual for recommendations
Premature diaphragm failure	 Cavitation Excessive flooded suction pressure Misapplication (chemical/physical incompatibility) Wrong type of lubrication (attack on air side) Incorrect diaphragm plates or plates on backwards Incorrect shaft with corresponding elastomer Start up at full air pressure 	 Enlarge pipe diameter on suction side of pump 1,2 Move pump closer to product Raise pump/place pump on top of tank to reduce inlet pressure Add accumulation tank or pulsation dampener as close to the pump as possible 3,4 Consult Chemical Resistance Chart for compatibility with products, cleaners, temperature limitations and lubrication 5,6 Check Operating Manual to check for correct part and installation 7 Start up pump slowly (manually or with Smart Start)
Breaking and bending shafts	 Build up of solids in water chamber Loose diaphragm plates 	 Flush pump, start pump slow Tighten diaphragm plates when replacing diaphragms

E1MP FDA PARTS LIST

			AIR VALVE	ASSEMBLY						
ltem	Description	Qty		Standard: Pol	ypropylene					
	Valve Assembly	1		E100						
	(Includes Items 1-8)									
1	Valve Body	1		E100A						
2	Valve Spool	1		E100B	ASY					
3	Valve Spool U-cup	2		P98-1	04A					
4	End Cap Assembly	2		E500A	SY					
5	End Cap Staple	2		E500)F					
6	Air Diverter	1		E100)G					
7	Valve Insert	1		E100)H					
8	Valve Gasket	1		E100)J					
9	Valve Cap Screw	4		S100)1					
			AIR END AS	SEMBLY						
ltem	Description	Qty		Standard: Pol	ypropylene					
15	Center Section	1		E101	A					
16	Pilot Shaft	1		P50-1	12					
17	Pilot Shaft Spacer	5		P24-10	06P					
18	Pilot Shaft O-Ring	6		P24-1	07					
19	Elastic stop Nut	2		P24-1	08					
20	Shaft Retainer	2		E101	В					
21	Shaft Retainer Screw	4		E101	С					
22	Muffler	1		VTM	-4					
			DIAPHRAGM	ASSEMBLY						
ltem	Description	Qty	TPE Rugged	PTFE FUSION	PTFE Bonded	PTFE 2-Piece				
25	Main Shaft O-Ring	2	P50-403	P50-403	P50-403	P50-403				
26	Main Shaft	1	P50-107	P50-107F	P50-108	P50-108				
27	Inner Diaphragm Plate	2	SV181C	N/R	V181TI	V181TI				
28	Outer Diaphragm Plate	2	SV181B	N/R	SV181TOFG	SV181TOFG				
29	Bolt- Outer Diaphragm Plate (Use w/ SV181B)	2	V181F	N/R	N/R	N/R				
30	Washer- Outer Plate	2	SV182	N/R	N/R	N/R				
	(Use w/ SV181B)									
31	Diaphragm	2	V183TPEFG-1	V183F	V183TX	V183TF-1				
32	Back-up Diaphragm	2	N/R	N/R	N/R	V183TB				
			WET END A	SSEMBLY						
Item	Description	Qty		Stain	less Steel					
35	Water Chamber	2		SV	'185FG					
36	Water Chamber Bolt	16		S	V189D					
37	Water Chamber Washer	16		S	V189C					
38	Water Chamber Nut	16		S	V185B					
39	Valve Seat	4		SV	90AFG					
40	Valve Seat O-Ring	4		SV	/190TF					
41	Valve Ball	4		V191TF, V19	1TPEFG , V191SS					
42	Discharge Manifold	1		SV	186FG					
43	Inlet Manifold	1		SV	'187FG					
44	Manifold Bolt	8		S	V189D					
45	Manifold Washer	8		S	V189C					
46	Manifold Nut	8	SV185B							

Diaphragm Part Number & Material *

V183TPEFG-1, Hytrel FDA V183TX, One piece PTFE dia. (No back-up required) V183F, IP One piece PTFE dia. (No back-up or outer plate required) Valve Ball Part Number & Material **

V191TPEFG, Hytrel FDA V191TF, PTFE V191SS, Stainless Steel Valve Seat Part Number & Material *** SV190TF, (White) PTFE Seat O-ring

EXPLODED VIEW



E1MP FDA DETAIL VIEWS



MATERIALS, TEMPERATURELIMITS & COMPATIBILITY

Materials of Construction — Pumps								
MODEL	Acetal®	Aluminum	Cast Iron	Hastelloy C	Polypropylene	PVDF	Stainless Steel	
E6 (1/4")								
E8 (3/8")					•	•		
E5 (1/2")	•	•		•	●▲	●▲	•	
E7 (3/4")		•						
E1 (1")		•		•		●▲	•	
E4 (1-1/4" - 1-1/2")				•	•	•	●■	
E2 (2")		•	•	•	•	•		
E2-FV (2")								
E3 (3")				•	•	•	●■	
	+							

● Bolted Construction ■ Clamped Construction ▲ Split Manifold Model Available ▼ High Pressure Model Available

Diaphragms, Valve Balls, Valve Seats & Valve Seat O-rings															
		el		PTFE			Thermo	plastics	noc						
ELASTOMERS	Aluminum	Buna-N	PVDF	Neoprene	EPDM	Polypropylene	Polyurethane	316 Stainless St	Tef-Matic™	Versa-Tuff TM	FUSION TM	Encapsulated Silicone	Santoprene (TPE XL)	FDA Hytrel®	(FKM) Fluorocarl
DIAPHRAGMS			•		•	•				•	•		•		•
VALVE BALLS			•		•	•		•	•	•			•		
VALVE SEATS		•	•	•	•	•	•	•	•	•			•		
VALVE SEAT O-RINGS			•			•						•			

Temperatu	re Limits
NEOPRENE	0°F (-18°C) to +200°F (93°C)
BUNA-N	+10°F (-12°C) to +180°F (82°C)
NORDEL	-60°F (-51°C) to +280°F (138°C)
(FKM) FLUOROCARBON	-40°F (-40°C) to +350°F (176°C)
PTFE	+40°F (+4°C) to +220°F (105°C)
POLYURETHANE	+10°F (-12°C) to +170°F (77°C)
SANTOPRENE (TPE XL)	-20°F (-29°C) to +300°F (149°C)
PFA	-20°F (-29°C) to +300°F (149°C)
FDA HYTREL	-20°F (-29°C) to +220°F (104°C)
METALLIC PUMPS can operate past 21 operating above these limits, consult the f	2°F (100°C). However, if you are actory for assistance.
PLASTIC PUMPS can operate to the foll • ACETAL • POLYPROPYLENE • PVDF	owing temperature limits: 32°F (0°C) to 220°F (104°C) 32°F (0°C) to 175°F (79°C) 10°F (-12°C) to 225°F (107°C)

NOTE: These are average temperatures. Chemicals and solvents can have an effect on temperature limit

Wetted Material Compatibility								
Fluid Solutions	Numeric pH Level	Wetted Section Construction Metals						
ALKALINE CAUSTIC	14 13 12 11	STAINLESS STEEL						
BASIC	10 9	CAST IRON						
NEUTRAL	8 7 6	ALUMINUM						
	5 4	CAST IRON						
ACID	3 2 1 0	STAINLESS STEEL						

VERSA-MATIC®, INC. PRODUCT WARRANTY

Versa-Matic Pump, Inc. ("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. Versa-Matic brands include ELIMA-MATIC[®], TEF-MATIC[®], THERMO-MATIC[®] and FUSION[™].

If Versa-Matic determines that a product bearing a Versa-Matic brand has failed under normal use and service due to a defect in material or workmanship within the warranty period for such product, Versa-Matic will repair or replace such product at no charge to the original enduse purchaser. The determination to repair or replace shall be made by Versa-Matic in its sole discretion. The repaired or replacement product shall be shipped to the original end-user purchaser freight collect unless the original enduser purchaser makes other arrangements for shipment. The original end-user purchaser shall bear all risk of loss or damage during shipment. Repair or replacement does not extend the original warranty period for a product, and any warranty repair or replacement is warranted only for the balance of the original warranty period.

Statements and data relating to products on Versa-Matic's website and in promotional marketing and technical literature and materials are not intended to define the performance of any product under actual conditions or when used for specific applications, are not warranties, and should not be relied upon in determining the performance of products under actual conditions or the suitability of products for specific applications.

The above warranty and repair or replacement obligation does not apply to or include:

- Any product that is not sold by Versa-Matic as new
- Any accessory or other product that does not bear a Versa-Matic brand (In the case of such products, any warranty is limited to a pass through to the original end-use purchaser of any warranty received from the manufacturer to the extent such pass through is permitted by the manufacturer)
- Any product that fails other than during normal use and service or that fails outside the warranty period for such product
- Normal wear and tear
- Any product that Versa-Matic determines (a) was tampered with, disassembled, repaired, modified or altered without the prior written authorization of Versa-Matic (b) damaged during or after shipment (c) used to pump material that the product was not designed to pump or otherwise used for a purpose or under conditions that differ from those for which it was designed (d) not properly maintained or operated or otherwise misused or (e) subjected to abnormal use or service.
- Any party other than the original end-use purchaser
- Field repair, removal, reinstallation, labor, freight or other similar items

To be eligible for warranty repair or replacement, the original end-use purchaser must notify Versa-Matic of the product failure in writing within the warranty period for such product and, if requested by Versa-Matic, the product must be promptly returned for inspection, freight prepaid, to either Versa-Matic's factory at 800 North Main Street: Mansfield. OH 44901 or to a Versa-Matic authorized distributor. The original end-user purchaser must also promptly provide Versa-Matic or its authorized distributor with all such information as either of them may request concerning the maintenance, operation, use and failure of any product that is claimed to have failed due to a defect in material or workmanship. Return of a product to Versa-Matic's factory requires a Return Goods authorization (RGA) from Versa-Matic, and the RGA No. must be included with the returned product. The original end-user purchaser shall bear all risk of loss or damage during shipment.

THIS PRODUCT WARRANTY IS VERSA-MATIC'S SOLE AND EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH OTHER WARRANTIES ARE EXPRESSLY EXCLUDED.

THE RIGHTS AND REMEDIES UNDER THIS PRODUCT WARRANTY ARE THE SOLE AND EXCLUSIVE RIGHTS AND REMEDIES AGAINST VERSA-MATIC WITH RESPECT TO ALL PRODUCTS. EXCEPT FOR THE SPECIFIC LIABILITIES AND OBLIGATIONS PROVIDED UNDER THIS PRODUCT WARRANTY, VERSA-MATIC SHALL HAVE NO LIABILITY OR OBLIGATION WITH RESPECT TO ANY PRODUCT.

UNDER NO CIRCUMSTANCES SHALL VERSA-MATIC HAVE ANY LIABILITY FOR ANY CLAIM, LOSS, DAMAGE, INJURY, LIABILITY, OBLIGATION, COST OR EXPENSE THAT DIRECTLY OR INDIRECTLY RELATES TO OR ARISES OUT OF THE USE OR FAILURE OF ANY PRODUCT OR ANY LIABILITY FOR INDIRECT, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF SALES, LOSS OF PROFITS, LOSS OF MATERIAL BEING PUMPED, DOWN TIME, LOSS OF PRODUCTION, LOSS OF CONTRACTS, OR DAMAGE TO REPUTATION OR GOOD WILL, WHETHER OR NOT VERSA-MATIC WAS AWARE OF OR ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN ANY EVENT, VERSA-MATIC'S LIABILITY IN CONNECTION WITH ANY INDIVIDUAL PRODUCT SHALL BE LIMITED TO THE ORIGINAL PRICE PAID TO VERSA-MATIC FOR SUCH PRODUCT.

No Versa-Matic authorized distributor or other person is authorized to modify this Product Warranty or impose any liability or obligation on Versa-Matic other than as expressly provided herein.

Rev February 2009

PUMPER PARTS®

The Only Difference is the Price.

A division of Versa-Matic Pump Company, Pumper Parts is your single source for Air-Operated Double

The Pumper Parts Promise

All Pumper Parts products are:

Diaphragm (AODD) pump parts. The company was formed to meet the demands for faster delivery of replacement parts at competitive prices. Pumper Parts is a global supplier of quality replacement parts that fit **ARO**[®], **Wilden**[®], and **Yamada**[®] air-operated double diaphragm pumps.

Pumper Parts serves customers all over the world in a variety of markets, including chemical, paints &

coatings, food processing, pharmaceutical, construction, mining, utilities, pulp & paper, metal finishing, and general industrial. A worldwide network of fully-stocked distributors and an extensive staff of qualified professionals are committed to supporting these customers. Pumper Parts is housed in a state-of-the-art facility to ensure that proper stock levels are maintained.



- Engineered to perform as well as or better than OEM parts guaranteed
- Manufactured to meet or exceed the highest quality standards in the industry
- Honored with the same repair parts warranty as the OEM
- Priced competitively — providing savings and value

Pumper Parts Tools

The Pumper Parts website helps you find

the parts you need fast and efficiently by allowing searches by product number or description. Additionally, a Chemical Compatibility database is provided so that you can quickly find what materials are most compatible with a variety of liquids.



Pumper Parts and its products are not affiliated with any of the original equipment manufacturers referenced herein. All original equipment manufacturers' names, colors, pictures, descriptions and part numbers are used for identification purposes only.

Pumper Parts® is a registered trade name of IDEX Corporation. All other trademarks, registered trademarks and product names are the property of their respective owners.



PUMPER PARTS A Unit of IDEX Corporation 800 North Main Street, P.O. Box 1568 Mansfield, OH 44901-1568

Tel: 419-526-7296 Fax: 419-526-7289 www.pumperparts.com info@pumperparts.com

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 DECLARACAO DE CONFORMIDADE

MANUFACTURED BY:

FABRIQUE PAR: FABRICADA POR: HERGESTELLT VON: FABBRICATO DA: VERVAARDIGD DOOR: TILLVERKAD AV: FABRIKANT: VALMISTAJA: PRODUSENT: FABRICANTE: VERSA-MATIC[®] IDEX AODD, Inc. 800 North Main Street

Mansfield, OH 44902 • USA



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

PUMP MODEL SERIES: E1 SERIES, E2 SERIES, E3 SERIES, E4 SERIES, E5 SERIES, E7 SERIES, E8 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 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:

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:

Roseberr

Dave Roseberry Engineering Manager

DATE: March 04, 2009 FECHA: DATUM: DATA: DATO: PÄIVÄYS:



03/02/2009 REV 02

Authority: Quality Manager

98 / 37 / EC

EN 809

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

Tel: (419) 526-7296 Fax: (419) 526-7289 www.versamatic.com



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