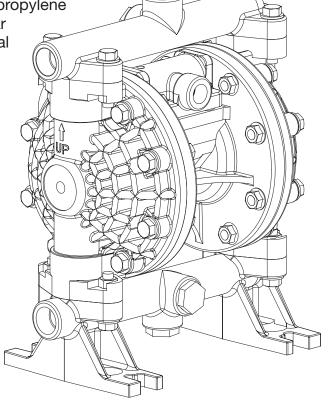
1/2" Elima-Matic Bolted Plastic/Metallic Pumps



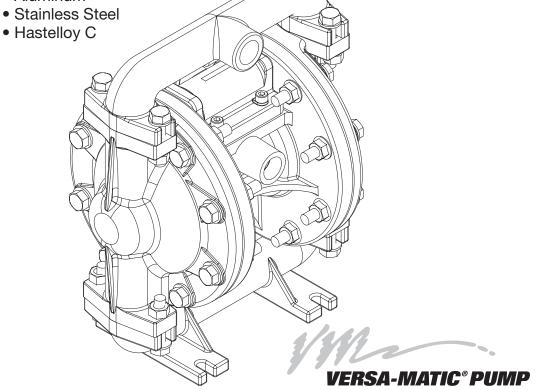
E5 Plastic Pumps

- Polypropylene
- Kynar
- Acetal



E5 Metallic Pumps

- Aluminum
- Hastelloy C



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

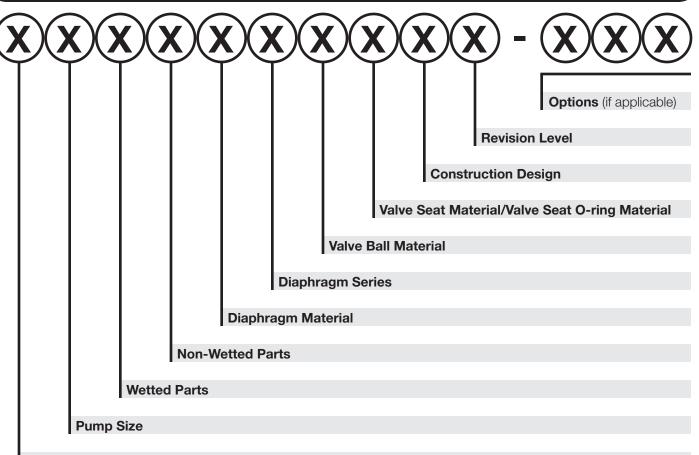
PTFE diaphragms. See torque settings for additional

details.

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

VERSA-MATIC® MODEL IDENTIFICATION CODES



Model

Model	Pump Size	Wetted Parts	Non-Wetted Parts
E Elima-Matic	6 1/4"	A Aluminum	A Aluminum
U Ultra-Matic	8 3/8"	C Cast Iron	S Stainless Steel
V V-Series	5 1/2"	S Stainless Steel	P Polypropylene
	7 3/4"	H Hastelloy C	G Groundable Acetal
	1 1"	P Polypropylene	Z PTFE-coated Aluminum
	4 1-1/4" or 1-1/2"	K Kynar	J Nickel-plated Aluminum

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)

Valve Ball Material

1 Neoprene

2 2"

33"

- 2 Buna-N
- 3 (FKM) Fluorocarbon
- 4 Nordel
- **5** PTFE
- 6 XL **7** Hytrel
- **8** Polyurethane
- **9** Geolast
- A Acetal
- **S** Stainless Steel

Valve Seat/Valve Seat O-ring Material

C Cast Iron

- **1** Neoprene
- 2 Buna-N
- 3 (FKM) Fluorocarbon

G Groundable Acetal

- 4 Nordel
- **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 Hastelloy 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 Hytrel
- **B** Aluminum (screen mount) **Q** Epoxy-Coated Aluminum **9** Geolast

Construction Design

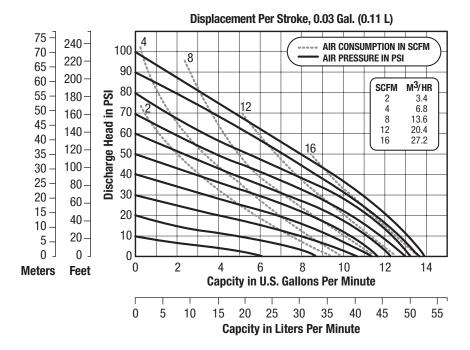
- 9 Bolted
- O Clamped

SPECIFICATIONS AND PERFORMANCE

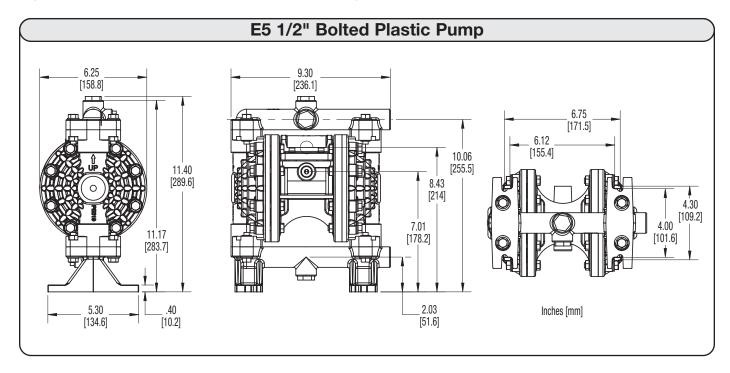
Versa-Matic Model **E5 1/2" Bolted Plastic Pump**

Flow Rate
Adjustable to 0-14 gpm (56 lpm)
Port Size
Suction
Discharge50" NPTF
Air Inlet 0.375" NPT
Air Exhaust
Suction Lift
Rubber 20' (6.09 m) Dry
Teflon 5' (1.52 m) Dry
Max. Particle Size (Diameter)
0.0625" (1.66 mm)
dB(A) Reading 67.1 dB(A)
Shipping Weights
Polypropylene 10 lbs (4.5 kg)
Kynar
Acetal 10 lbs (4.5 kg)

Caution: do not exceed 100 psig (6.9 bar) liquid or air supply pressure.



CAUTION: Plastic pumps and components are <u>not</u> UV stabilized. Ultraviolet radiation can damage these parts and negatively affect material properties. Do not expose to UV light for extended periods of time.

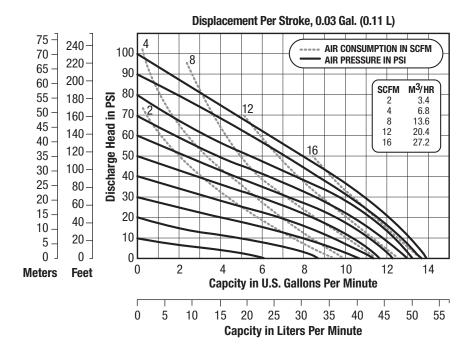


SPECIFICATIONS AND PERFORMANCE

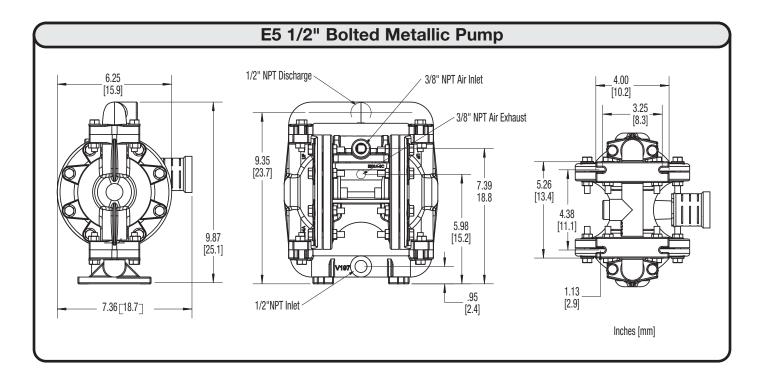
Versa-Matic Model E5 1/2" Bolted Metallic Pump

Flow Rate
Adjustable to 0-14 gpm (56 lpm)
Port Size
Suction
Discharge50" NPTF
Air Inlet 0.375" NPT
Air Exhaust
Suction Lift
Rubber 20' (6.09 m) Dry
Teflon 5' (1.52 m) Dry
Max. Particle Size (Diameter)
0.0625" (1.66 mm)
dB(A) Reading 67.1 dB(A)
Shipping Weights
Aluminum 18 lbs (4.5 kg)
Stainless Steel 15 lbs (4.5 kg)
Hastelloy C 10 lbs (4.5 kg)

Caution: do not exceed 125 psig (8.5 bar) liquid or air supply pressure.



CAUTION: Plastic pumps and components are <u>not</u> UV stabilized. Ultraviolet radiation can damage these parts and negatively affect material properties. Do not expose to UV light for extended periods of time.



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 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.

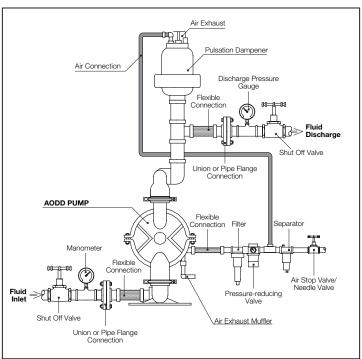
Suction pipe size should be at least the same diameter as the inlet connection size, even larger if highly viscous fluid is to be pumped. If suction hose is used, it must be of a non-collapsible reinforced type. Discharge piping should be of at least the same diameter as the discharge connection.

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.

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 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.

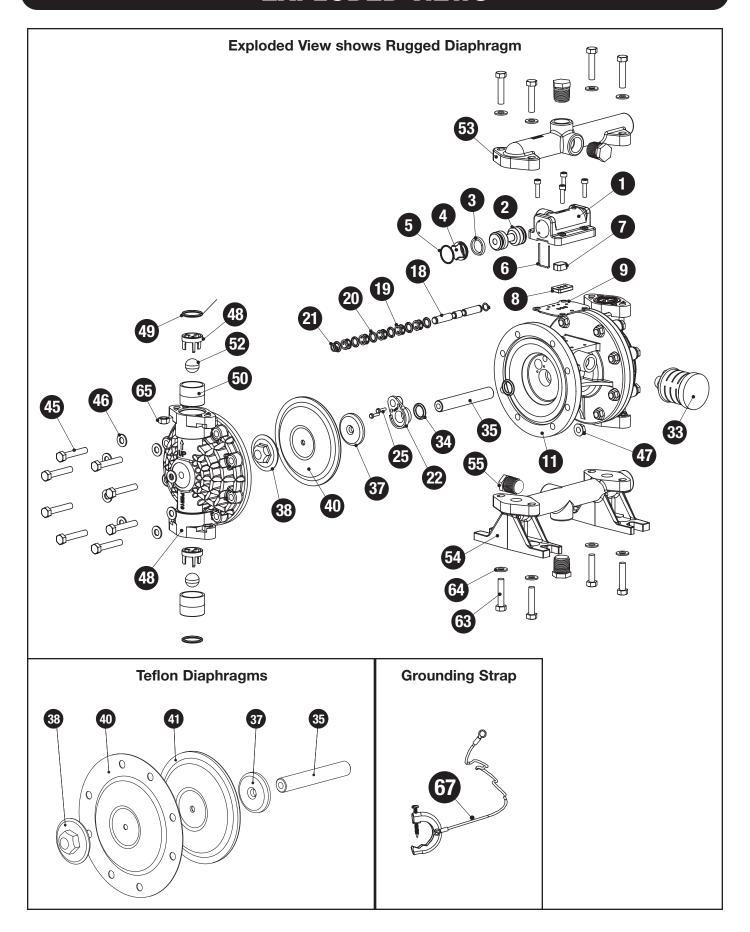
Recommended Piping Connections							
Pump Size	Minimum Air Line Size	Minimum Suction Line Size					
1/4"	1/4"	1/4"					
3/8"	1/4"	3/8"					
1/2"	1/2"	1/2"					
1"	1/2"	1"					
1-1/2"	1/2"	1-1/2"					
2"	1/2"	2"					
3"	3/4"	3"					

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 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 4 Consult Chemical Resistance Chart for compatibility with products, cleaners, temperature limitations and lubrication Check Operating Manual to check for correct part and installation Start up pump slowly (manually or with Smart Start)
Breaking and bending shafts	Build up of solids in water chamberLoose diaphragm plates	1 Flush pump, start pump slow2 Tighten diaphragm plates when replacing diaphragms

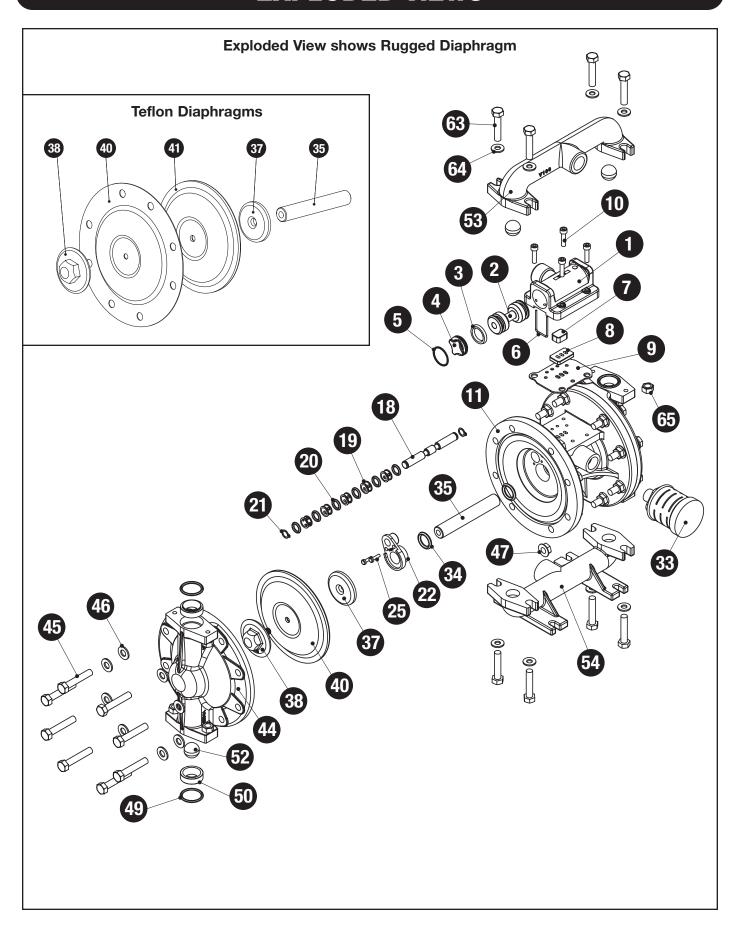
		E	5 1/2" Bolted Pla	Stic Parts List	
			AIR VALVE AS	SEMBLY	
tem	Description	Qty.	Standard: Po		Option 1: Aluminum
	Air Valve Assembly				
	(Includes items 1-10)		E50	00	E500
	Valve Body	1	E50	0A	E500A
	Valve Spool Assembly				
	(Includes U-Cups)	1	E500B		E500B ASY
	Valve Spool U-Cup	2	P98-1	04A	P98-104A
	End Cap Assembly				
•	(Includes O-Ring)	2	E50	0D	E500D
	End Cap O-Ring				
	(Not Sold Separately)	2	E500E		E500E ASY
	Staple	2	E50	-	E500F
	Air Diverter	1	E50		E500G
	Valve Insert	1	E50	-	E500H
	Valve Gasket	1	E50		E500J
0	Valve Screw	4	S10		S1001
			AIR END ASS	SEMBLY	
Item	Description	Qty.		<u> </u>	
1	Center Section	1	E50		E501A-SC
8	Pilot Shaft	1	E50	E503A	
9	Pilot Shaft Spacer	5	E50		E503C
0	Pilot Shaft O-Ring	6	E50		E503B
1	Pilot Shaft Snap Ring	2	E50		E503D
2	Shaft Retainer	2	E50		E501B
5	Shaft Retainer Screw	4	E50	_	E501C
33	Muffler	1	VTN	VTM-3	
			DIAPHRAGM A		
Item	Description	Qty.	TPE/Rubber	Teflon Bonded	Teflon 2-Piece
4	Main Shaft O-Ring	2	E502B	E502B	E502B
5	Main Shaft	1	E502A	E502A	E502A
7	Inner Diaphragm Plate	2	V199	V199	V199
8	Outer Diaphragm Plate	2	PV199B KV199B CV199B	PV199B KV199B CV199B	PV199B KV199B CV199B
			E505BN E505VT E505XL		
-0	Diaphragm	2	E505ND E505N E505FG	E505TX	E505TF
1	Back-Up Diaphragm	2	N/A	N/A	E505N
		_	WET END AS	L. L.	
		I I	W21 2112 713	5 <u>5-</u> .	
Item	Description	Qty.	Standard: Polypropylene	Option 1: Kynar	Option 2: Groundable Acetal
4	Water Chamber	2	PE519	KE519	CE519
5	Water Chamber Bolt	16	SV187A	SV187A	SV187A
6	Water Chamber Washer	16	SV189C	SV189C	SV189C
5 7	Water Chamber Nut	16	SV185B	SV185B	SV185B
8	Valve Ball Cage	4	PE522	KE522	CE522
.9	Valve Seat O-ring	4		N E510ND E510TES E510TEV	
0	Valve Seat S-IIIIg	4	PE521	KE521	CE521
2	Valve Ball	4		/111BN V111FG V111SS V111	
	i	 	, , , , , , , , , , , , , , , , , , ,	111211111111111111111111111111111111111	
^	Discharge Manifold	,	DE500 40V	VE500 40V	05500 401/
3	Assembly (Includes Plugs)	1	PE520 ASY	KE520 ASY	CE520 ASY
	Inlet Manifold Assembly		DE=00= 101/	VE-20- 101	05555
4	(Includes Plugs)	1	PE520F ASY	KE520F ASY	CE520F ASY
5	Manifold Plugs	4	PS80-8NP	P8NK	P8NK
3	Manifold Bolts	8	SV189D	SV189D	SV189D
	Manifold Washers	8	SV189C	SV189C	SV189C
				CVACAD	SV164D
5	Manifold Nuts	8	SV164D	SV164D	
5 5 7	Manifold Nuts Grounding Strap	8	SV164D NA	NA	E518

EXPLODED VIEWS



			E5 1/2" Bolted Metallic Part	is List			
			AIR VALVE ASSEMBLY				
tem	Description	Qty.	Standard: Polypropylene	Option 1: A	Aluminum		
	Air Valve Assembly			-			
	(Includes items 1-10)		E500	E5			
	Valve Body	1	E500A	E500A			
	Valve Spool Assembly						
	(Includes U-Cups)	1	E500B ASY	E500B			
	Valve Spool U-Cup	2	P98-104A	P98-1	04A		
	End Cap Assembly						
	(Includes O-Ring)	2	E500D	E50	0D		
	End Cap O-Ring						
	(Not Sold Separately)	2	E500E ASY	E500E			
	Staple	2	E500F	E50	•		
	Air Diverter	1	E500G	E50			
	Valve Insert	1	E500H	E50			
)	Valve Gasket	1	E500J	E50			
0	Valve Screw	4	S1001	S10	001		
			AIR END ASSEMBLY				
em	Description	Qty.					
1	Center Section	1	E501A	E501	A-SC		
8	Pilot Shaft	1	E503A	E503A			
9	Pilot Shaft Spacer	5	E503C	E503C			
0	Pilot Shaft O-Ring	6	E503B	E503B			
:1	Pilot Shaft Snap Ring	2	E503D	E503D			
2	Shaft Retainer	2	E501B	E50	1B		
25	Shaft Retainer Screw	4	E501C	E501C			
3	Muffler	1	VTM-3	VTN	1-3		
			DIAPHRAGM ASSEMBLY				
em	Description	Qty.	TPE/Rubber	Teflon Bonded	Teflon 2-Piece		
34	Main Shaft O-Ring	2	E502B	E502B	E502B		
5	Main Shaft	1	E502A	E502A	E502A		
7	Inner Diaphragm Plate	2	V199	V199	V199		
8	Outer Diaphragm Plate	2	SV199B	SV199B	SV199B		
0	Diaphragm	2	E505BN E505VT E505XL E505ND E505N E505FG	E505TX	E505TF		
1	Back-Up Diaphragm	2	N/A	N/A	E505N		
	, ,		WET END ASSEMBLY				
em	Description	Qty.	Standard: Aluminum	Option 1: Stainless Steel	Option 2: Hastello		
4	Water Chamber	2	E504A	E504S	E504H		
5	Water Chamber Bolt	16	SV189D	SV189D	SV189D		
.5 .6	Water Chamber Washer	16	SV189D	SV189C	SV189D		
7	Water Chamber Nut	16	SV185B	SV185B	SV185B		
9	Valve Seat O-ring	4	V110BN V110HT V110ND V11				
0	Valve Seat O-ring	4	V110A	SV110	HV110		
2	Valve Ball	4	V111A V111BN V111FG V1				
3	Discharge Manifold	1	V196	SV196	HV196		
4	Inlet Manifold	1	V197	SV190	HV197		
3	Manifold Bolts	8	SV197F	SV197D	SV197D		
64	Manifold Washers	8	SV1971	SV197D SV196C	SV196C		
55	Manifold Nuts	8	SV190C SV197E	SV190C SV197E	SV190C SV197E		
	manifold Natio	U	O 101L	OV 137 L	OVIOLE		

EXPLODED VIEWS



MATERIALS, TEMPERATURE LIMITS & 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")		•	•	•=	•	•	OHAY		
E2-FV (2")									
E3 (3")		•=		•=	•	•	•		

■ Bolted Construction■ C	Clamped Construction	▲ Split Manifold Model Available	▼ High Pressure Model Available
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Dia	phra	gms,	Valve	e Bal	ls, Va	lve S	Seats	& Va	lve S	Seat (O-rin	gs			
								<u></u>		PTFE			Thermo	plastics	uou
ELASTOMERS	Aluminum	Buna-N	PVDF	Neoprene	EPDM	Polypropylene	Polyurethane	316 Stainless Steel	Tef-Matic™	Versa-Tuff TM	FUSION™	Encapsulated Silicone	Santoprene (TPE XL)	FDA Hytrel®	(FKM) Fluorocarbon
DIAPHRAGMS			•		•	•				•	•		•	•	•
VALVE BALLS			•		•	•		•	•	•			•	•	•
VALVE SEATS		•	•	•	•	•	•	•	•	•			•	•	•
VALVE SEAT O-RINGS			•			•				•		•	•		•

Temperature Limits							
0°F (-18°C) to +200°F (93°C							
+10°F (-12°C) to +180°F (82°C							
-60°F (-51°C) to +280°F (138°C							
-40°F (-40°C) to +350°F (176°C							
+40°F (+4°C) to +220°F (105°C							
+10°F (-12°C) to +170°F (77°C							
-20°F (-29°C) to +300°F (149°C							
-20°F (-29°C) to +300°F (149°C							
-20°F (-29°C) to +220°F (104°C							
212°F (100°C). However, if you are the factory for assistance.							
following 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 s	olvents	can	nave a	Л£
effect on temperature limit							

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

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

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.

Pumper Parts

Bask Forward Step Refresh Home Add Fill Print Mail

Address: http://www.pumperparts.com/parts/vilden/index.asp

Live Home Page Apple Computer Apple Stepert Apple Steper Historian Address: Contract the Copie of Microsoft Nat Topis Address: Copie of Micros

The Pumper Parts Promise

All Pumper Parts products are:

- 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 LLC A Unit of IDEX Corporation 6017 Enterprise Drive Export, PA 15632-8969

Tel: 724-387-1776 Fax: 724-387-1774 www.pumperparts.com info@pumperparts.com

VERSA-MATIC® PUMP, 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 end-use 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 end-user 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 6017 Enterprise Drive: Export, Pennsylvania 15632 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 April 2008

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: **VERSA-MATIC PUMP**

A Unit of IDEX Corporation 6017 Enterprise Drive Export, PA 15632 • USA

Tel: 724-327-7867 Fax: 724-327-4300



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:

98 / 37 / EC

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:

EN 809

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:

Scott Aiello Vice President of Commercial Operations

Erik Dillen, Engineering Manager **DATE: March 11, 2008**

FECHA: DATUM: DATA: DATO: PÄIVÄYS:

CE

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