

1: PUMP SPECS

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.



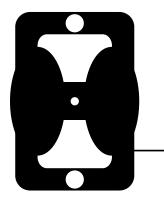
Take action to prevent static sparking. Fire or explosion can result, especially when handling flammable liquids. The pump, piping, valves, containers and other miscellaneous equipment must be properly grounded.



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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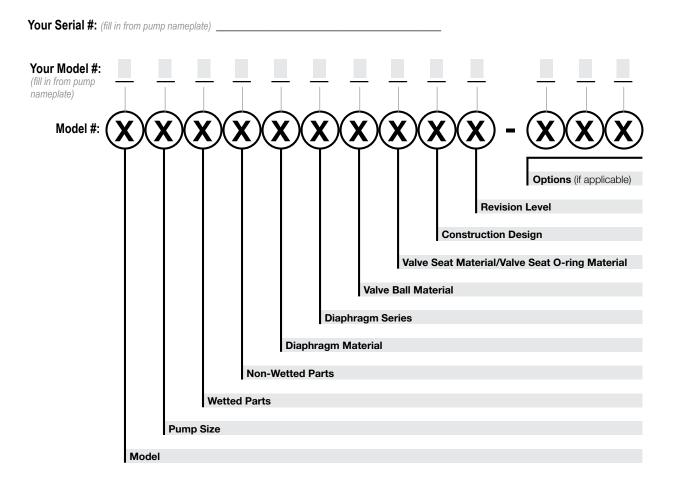
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Explanation of Pump Nomenclature



Model

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

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)

1 Neoprene 2 Nitrile 3 (FKM) Fluorocarbon 4 EPDM 5 PTFE 6 Santoprene XL 7 Hytrel 8 Polyurethane 9 Geolast A Acetal Stainless Steel

Pump Size

4 1-1/4" or 1-1/2"

6 1/4"

8 3/8"

5 1/2"

7 3/4"

1 1"

2 2"

3 3"

Valve Ball Material Valve Seat/Valve Seat O-Ring Material

Wetted Parts

A Aluminum

C Cast Iron

H Alloy C

K Kynar

S Stainless Steel

P Polypropylene

G Groundable Acetal

B Aluminum (screen mount)

- 1 Neoprene 2 Nitrile 3 (FKM) Fluorocarbon 4 EPDM 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 Groundable 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 (Nitrile) 3 FKM (Fluorocarbon) 4 EPDM

- 5 PTFE
- 6 Santoprene XL
- 7 Hytrel 9 Geolast



Materials

Material Profile:		rating ratures:	Polypropylene: A thermoplastic polymer. Moderate tensile and flex strength. Resists stong acids and alkali. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C		
CAUTION! Operating temperature limitations are as follows: Conductive Acetal: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with	Max. 190°F 88°C	Min. -20°F -29°C	PVDF: (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		
good chemical resistance except for strong acids and oxidizing agents. EPDM: Shows very good water and chemical resistance. Has	280°F	-40°F	Santoprene®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C		
poor resistance to oils and solvents, but is fair in ketones and alcohols. FKM: (Fluorocarbon) Shows good resistance to a wide range	138°C 350°F	-40°C -40°F	UHMW PE: A thermoplastic that is highly resistant to a broad range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	180°F 82°C	-35°F -37°C		
of oils and sovents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.	177°C	-40°C	Urethane: 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. Very few chemicals are known to chemically react with PTFE; molten alkali metals, turbulent liquid or gaseous fluorine and	220°F 104°C	-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, ketones, esters and nitro hydrocarbons and chlorinated aromatic	200°F 93°C	-10°F -23°C	a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.		operated		
hydrocarbons. Nitrile: General purpose, oil-resistant. Shows good solvent, oil,	190°F	-10°F	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.				
water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.	88°C	-23°C	Metals: Alloy C: Equal to ASTM494 CW-12M-1 specification for nickel and nickel alloy.				
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		

For specific applications, always consult the Chemical Resistance Chart.

AFTERMARKET PARTS

RIGHT PART, RIGHT NOW

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

- Wilden[®]
- ARO®
- Yamada®

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



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Performance

E1 - 1" Bolted Non-Metallic Pump – Metallic Center **ELASTOMERIC AND TPE FITTED**

Flow Rate	7 5]	٦						Disi	olaceme	nt Per Str	oke, 0.11 Ga	al. (0.42 L)
Adjustable to0-45 gpm (170 LPM)	75 -	240										
Port Size	70 -	220-	100		10	20		-			CONSUMPTION I	
Suction 1" 150# ANSI/DIN Flange	65 -	200-		10000	\uparrow	20					PRESSURE IN PS	ii
Discharge 1" 150# ANSI/DIN Flange	60 -			00000		L		20			SCFM	M ³ /HR
Air Inlet	55 -	180-	- 80	\rightarrow			\sim	30			5 SCFM	8.5
Air Exhaust	50 -	160-	PSI	10000	$ \rightarrow $			\searrow			10	17 34
Suction Lift	45 —	140-	<u>.</u>	1			\sim				30	51
Dry	40 -		09 09						\sim		40	68
Wet	35 —	120-				\leftarrow				40		
Max Solid Size (Diameter)	30 –	100-	Discharge						\sim			
1/8" (3.2 mm)	25 —	80-	40 40		\rightarrow			\searrow				
Max Noise Level	20 –	60-	lisc				<u> </u>					<u> </u>
Shipping Weights	15 —	40-	– 20							/ /		
Polypropylene	10 —		20			\sim			\sim		$\mathcal{N}\mathcal{N}$	
PVDF	5 —	20-				$\overline{}$	\sim			$\langle \rangle$	1111	
	0]	۲ ٥	0			1					$\mathcal{N}\mathcal{U}$	
	Meters	Feet	C)	10		-	20	3	-	40	50
						(Capacit	y in U.S	. Gallon	s Per Mir	nute	
					20	40		60	 80	100	120	140
				-	20	+0		50		.50	.20	

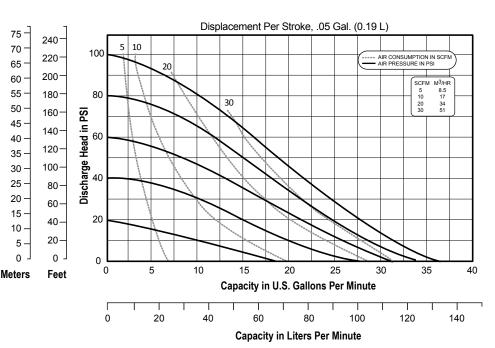
NOTE: Performance based on the following: elastomeric fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

Capacity in Liters Per Minute

E1 - 1" Bolted Metallic Pump - Poly Center PTFE FITTED

Flow Rate

Adjustable to 0-35 gpm (132.5 LPM)	
Port Size	
Suction 1" 150# ANSI/DIN Flange	
Discharge1" 150# ANSI/DIN Flange	
Air Inlet	
Air Exhaust	
Suction Lift	
Dry	
Wet	
Max Solid Size (Diameter)	
Max Noise Level	
Shipping Weights	
Polypropylene	
PVDF	



NOTE: Performance based on the following: elastomeric 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%.

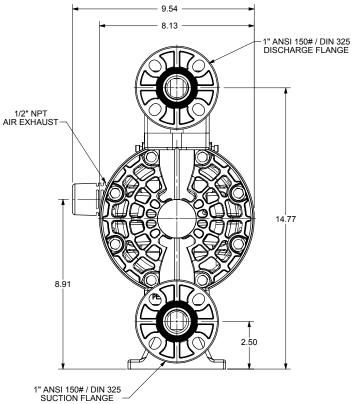


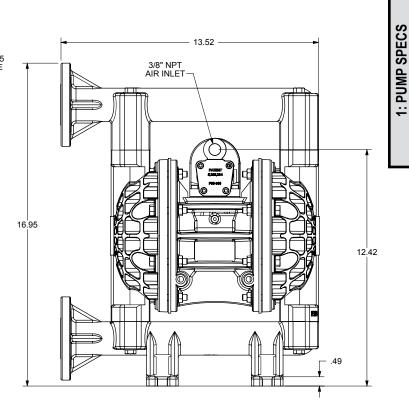
1: PUMP SPECS

Dimensional Drawings

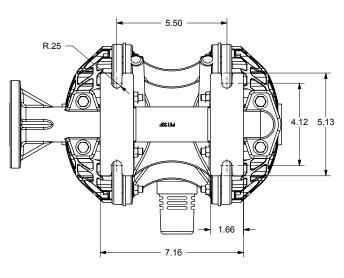
E1 Non-Metallic Bolted Dimensions in inches (mm dimensions in brackets)

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









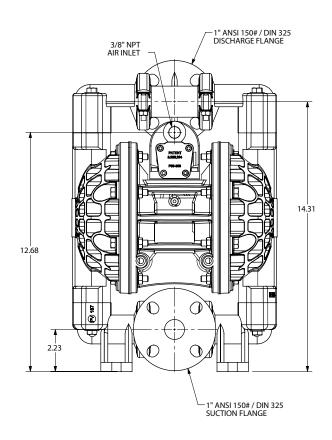
BOTTOM VIEW

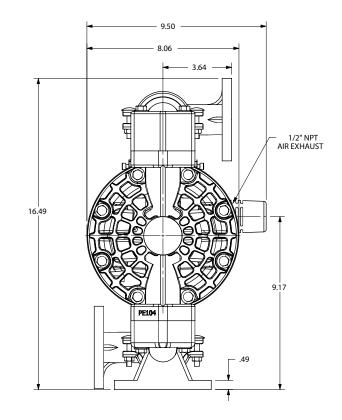


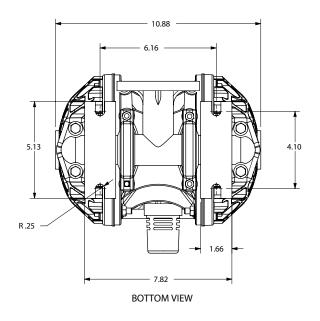
Dimensional Drawings

E1 Non-Metallic Bolted (Optional Center Section) 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.

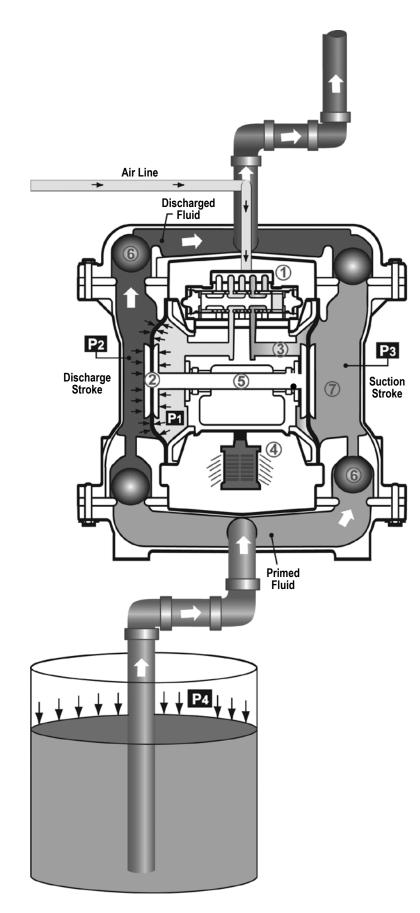








Principle of Pump Operation





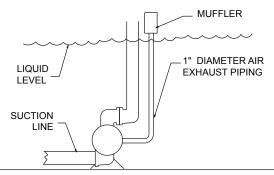
Air-Operated Double Diaphragm (AODD) pumps are powered by compressed air, nitrogen or natural gas.

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} .

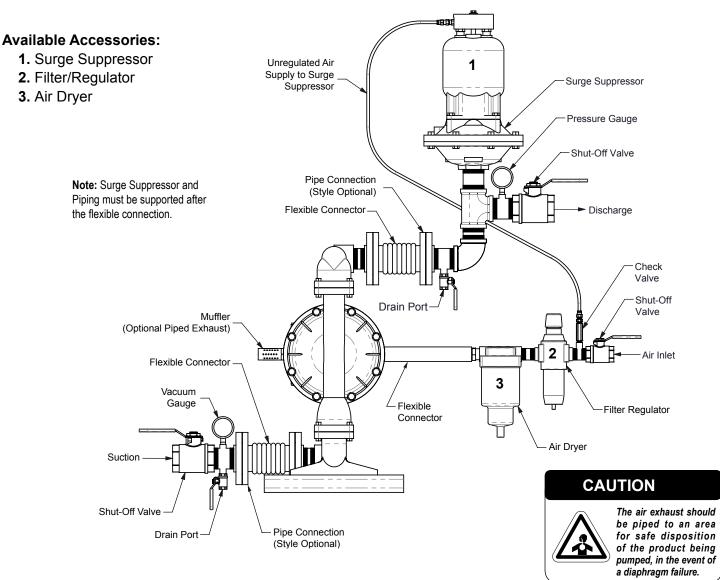
Suction (side) stroking also initiates the reciprocating (shifting, stroking or cycling) action of the pump. The suction diaphragm's movement is mechanically pulled through its stroke. The diaphragm's inner plate makes contact with an actuator plunger aligned to shift the pilot signaling valve. Once 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.

SUBMERGED ILLUSTRATION

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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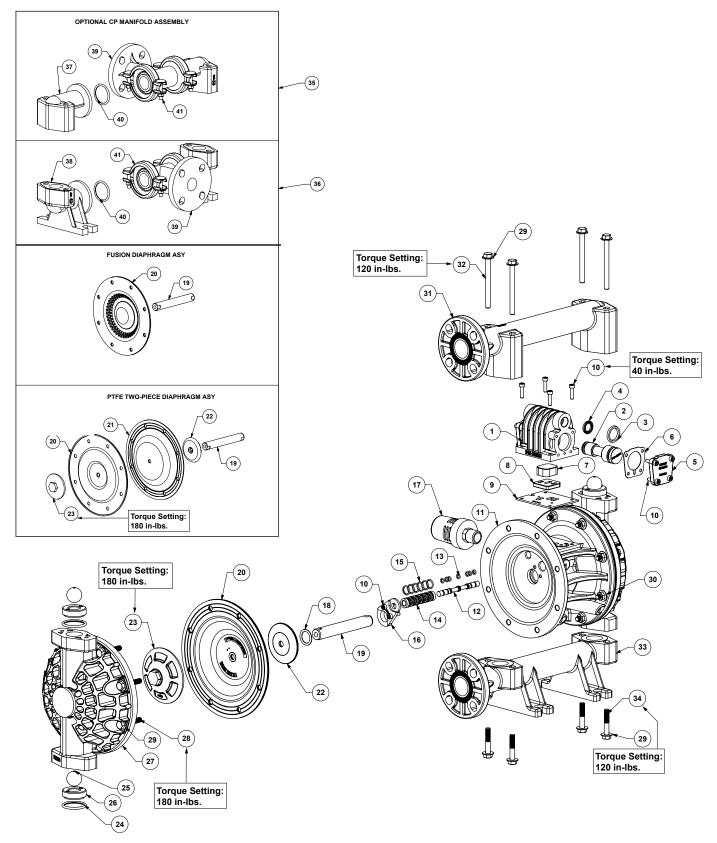
Troubleshooting Guide

Symptom:	Potential Cause(s):	Recommendation(s):
Pump Cycles Once	Deadhead (system pressure meets or exceeds air	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow.
	supply pressure).	(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.
	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 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.
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For additional troubleshooting tips contact After Sales Support at service.warrenrupp@idexcorp.com or 419-524-8388



Composite Repair Parts Drawing



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3: EXP VIEW

Composite Repair Parts List

		Air Valve	Assembly		
Item #	Qty.	Description	Assembly	Part Number	
-	1	Air Valve Assembly (includes items 1-10)		031.V006.156	
1	1	Valve Body		P98-102UB	
2	1	Valve Spool Assembly (Includes items 3&4)		P98-105UB ASY	
3	1	Large Valve Spool U-Cup Small Valve Spool U-Cup		P98-105B P98-105A	
5	2	Metal End Cap		P98-300	
Ğ	2	End Cap Gasket (for metal)	1	P98-110	
7	1	CT Air Diverter		P98-105CT	
8	1	Air Diverter Plate		P98-106	
9	1	Air Valve Gasket		P98-111UB	
10	12	Mounting Screws	ion Assembly	S1001	
	•			Part Number	
Item #	Qty.	Description	Aluminum	PTFE Coated	Nickel Plated
11	1	Center Section	114.V001.157	114.V001.309	114.V001.332
12	1	Pilot Spool ASY (includes item 17)		775.V005.000	
13 14	1	Pilot Spool O-Rings Pilot Valve Sleeve ASY (includes item 19)		560.023.360 755.V004.148	
14	6	Pilot Valve Sleeve ASY (includes item 19) Pilot Valve Sleeve O-Rings		560.101.360	
16	2	Shaft/Pilot Retainer		670.V002.554	
10	4	Retainer Screw	<u> </u>	S1001 VTM-4	
17	1	Muffler		VTM-4	
		Diaphragm Asse	mbly / Elastomers		
Item #	Qty.	Description	TPE/RUBBER	Part Number PTFE 2-Piece	PTFE Fusion
18	2	Main Shaft O-Ring	IPE/RUBBER	P1FE 2-Piece P50-403	PIFE Fusion
19	1	Main Shaft	685.V001.120	1 <u>30-403</u> P{	50-108
	<u>`</u>		"V183xx-1		
20	2	Diaphragm	(See Below Material Chart)"	V183TF-1	V183F
21	2	Back-Up Diaphragm	N/A	V183TB	N/A
22	2	Inner Diaphragm Plate	V181	C	N/A
23	2	Poly Outer Diaphragm Plate	PE113	PV181TO	N/A
		Kynar Outer Diaphragm Plate	KE113 "V90xx	KV181TO	
24	4	Valve Seat O-Ring		SV	'190TF
			(See Below Material Chart)" "V191xx		
25	4	Valve Ball	(See Below Material Chart)"	V	191TF
		Wet End	Assembly		
Item #	Otv		Assembly	Part Number	
Item #	Qty.	Description	Assembly Polypropylene	Part Number	Kynar
	4	Description Valve Seat	Assembly Polypropylene PE108	Part Number	KĔ108
<u>26</u> 27	4	Description Valve Seat Water Chamber	Assembly Polypropylene		Kynar KE108 KE104
<u>26</u> 27	4 2 16	Description Valve Seat Water Chamber Water Chamber Bolt	Assembly Polypropylene PE108	SV187A	KĒ108
26 27 28 29 30	4	Description Valve Seat Water Chamber	Assembly Polypropylene PE108 PE104 PE104		<u>KĚ108</u> KE104
26 27 28 29 30 31	4 2 16 16 16 1 1	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold	Assembly Polypropylene PE108	SV187A SV189C SV185B	KĔ108
26 27 28 29 30 31 32	4 2 16 16 16 1 4	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt	Assembly Polypropylene PE108 PE104 PE120	SV187A SV189C	KĒ108 KE104 KE120
26 27 28 29 30 31 32 33	4 2 16 16 16 1 4 1	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold	Assembly Polypropylene PE108 PE104 PE104	SV187A SV189C SV185B E120A	<u>KĚ108</u> KE104
26 27 28 29 30 31 32 33 34	4 2 16 16 16 1 1 4 1 4	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Suction Manifold Bolt	Assembly Polypropylene PE108 PE104 PE120	SV187A SV189C SV185B E120A E120A E120B	KĒ108 KE104 KE120
26 27 28 29 30 31 32 33	4 2 16 16 16 1 4 1	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer	Assembly Polypropylene PE108 PE104 PE120 PE120F	SV187A SV189C SV185B E120A	KĒ108 KE104 KE120
26 27 28 29 30 31 32 33 33 34 29	4 2 16 16 16 1 4 1 4 8	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Nut Discharge Manifold Discharge Manifold Suction Manifold Bolt Suction Manifold Bolt Manifold Washer	Assembly Polypropylene PE108 PE104 PE120 PE120F Inifold Assembly	SV187A SV189C SV185B E120A E120A E120B	KĒ108 KE104 KE120
26 27 28 29 30 31 32 33 34	4 2 16 16 16 1 1 4 1 4	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer	Assembly Polypropylene PE108 PE104 PE120 PE120F Inifold Assembly PTFE	SV187A SV189C SV185B E120A E120B SV189C Part Number	KĒ108 KE104 KE120 KE120F
26 27 28 29 30 31 32 33 33 34 29	4 2 16 16 16 1 4 1 4 8	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Nut Discharge Manifold Discharge Manifold Suction Manifold Bolt Suction Manifold Bolt Manifold Washer	Assembly Polypropylene PE108 PE104 PE120 PE120F PE12F PE12F PEFE	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number 7.604 (PTFE	KĒ108 KE104 KE120 KE120F XL Fitted) 475.V009.604
26 27 28 29 30 31 31 32 33 34 29 Item #	4 2 16 16 16 1 4 1 4 8 Qty. 1	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Discharge Manifold ASY (includes items 40,42,43 44)	Assembly Polypropylene PE108 PE104 PE120 PE120F PE12F PE1F	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number C604 (PTFE 354 (XL F	KĒ108 KE104 KE120 KE120F XL Fitted) 475.V009.604 itted) 475.V009.354
26 27 28 29 30 31 32 33 34 29 Item #	4 2 16 16 16 1 4 1 4 8 Qty.	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Description	Assembly	SV187A SV189C SV185B E120A E120B SV189C Part Number (.604 (PTFE 354 (XLF 0.604 (PTFE	KĒ108 KĒ104 KĒ120 KĒ120F KĒ120F XL Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V009.354
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37	4 2 16 16 16 1 4 1 4 8 Qty. 1	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Discharge Manifold ASY (includes items 40,42,43 44)	Assembly Polypropylene PE108 PE104 PE120 PE120 PE120F PE120F (PTFE Fitted) 475.V007. (XL Fitted) 475.V007. (XL Fitted) 475.V008. (XL Fitted) 475.V008. PV186	SV187A SV189C SV185B E120A E120B SV189C Part Number (.604 (PTFE 354 (XLF 0.604 (PTFE	KĒ108 KE104 KE120 KE120F KE120F Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38	4 2 16 16 16 1 4 1 4 8 Qty. 1 1 2 2	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow	Assembly Polypropylene PE108 PE104 PE120 PE120F PE120F PE120F (PTFE Fitted) 475.V007. (VL Fitted) 475.V007. (VL Fitted) 475.V008. (XL Fitted) 475.V008. PV186 PV187	SV187A SV189C SV185B E120A E120B SV189C Part Number (.604 (PTFE 354 (XLF 0.604 (PTFE	KĒ108 KE104 KE120 KE120F Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186 KE187
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39	4 2 16 16 16 1 4 1 4 8 Qty. 1 1 2 2 2	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow	Assembly Polypropylene PE108 PE104 PE120 PE120 PE120F PE120F (PTFE Fitted) 475.V007. (XL Fitted) 475.V007. (XL Fitted) 475.V008. (XL Fitted) 475.V008. PV186	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number 7.604 (PTFE 354 (XL F 354 (XL F 354 (XL F	KĒ108 KE104 KE120 KE120F KE120F Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38	4 2 16 16 16 1 4 1 4 8 Qty. 1 1 2 2	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring	Assembly Polypropylene PE108 PE104 PE120 PE120F PE120F PE120F (PTFE Fitted) 475.V007. (VL Fitted) 475.V007. (VL Fitted) 475.V008. (XL Fitted) 475.V008. PV186 PV187	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number Cod4 (PTFE 354 (XL F 354 (XL F (PTFE 354 (XL F (PTFE)) SV188TF	KĒ108 KE104 KE120 KE120F Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186 KE187
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40	4 2 16 16 1 4 1 4 8 Qty. 1 1 2 2 4	Description Valve Seat Water Chamber Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring	Assembly Polypropylene PE108 PE104 PE120 PE120F PE120F PE120F (PTFE Fitted) 475.V007. (VL Fitted) 475.V007. (VL Fitted) 475.V008. (XL Fitted) 475.V008. PV186 PV187	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number C604 (PTFE 354 (XL F 354 (XL F 354 (XL F 354 (XL F 0.604 (PTFE 354 (XL F) 0.604 (PTFE) 0.604 (P	KĒ108 KE104 KE120 KE120F Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186 KE187
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39	4 2 16 16 16 1 4 1 4 8 Qty. 1 1 2 2 2	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly	Assembly Polypropylene PE108 PE104 PE120 PE120F I PE120F I PE120F (PTFE Fitted) 475.V007. (XL Fitted) 475.V007. (XL Fitted) 475.V008. PV186 PV187 PV188	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number Cod4 (PTFE 354 (XL F 354 (XL F (PTFE 354 (XL F (PTFE)) SV188TF	KĒ108 KE104 KE120 KE120F Fitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186 KE187
26 27 28 29 30 31 32 33 34 29 Item # 35 36 36 37 38 39 40 40 41	4 2 16 16 1 4 1 4 8 Qty. 1 1 2 2 2 4 4 4 erial	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Discharge Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater	Assembly Polypropylene PE108 PE104 PE120 PE120F PE120F PE120F (PTFE Fitted) 475.V007 (PTFE Fitted) 475.V008 (PTFE Fitted) 475.V008 (PTFE Fitted) 475.V008 PV186 PV187 PV188 PV18 PV1	SV187A SV189C SV185B E120A E120A E120B SV189C Part Number C.604 (PTFE 354 (XLF 354 (XLF 354 (XLF U188TF V188TF V188XL SV189	KĒ108 KE104 KE120 KE120F E Fitted) 475.V009.604 Eitted) 475.V009.354 Fitted) 475.V010.354 KE186 KE186 KE187 KV188
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 Mate Neoc	4 2 16 16 1 4 1 4 3 Qty. 1 1 1 2 2 2 4 4 4 erial 0rene	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater Diaphragm P/N V183N-1	Assembly	SV187A SV189C SV185B E120A E120A Part Number 7.604 (PTFE 354 (XLF 604 (PTFE 354 (XLF 0.604 (PTFE 354 (XLF V188TF V188TF V188XL SV189 O-R	KĒ108 KE104 KE120 KE120F KE12F
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 Mate Neog Buna	4 2 16 16 1 4 4 4 8 Qty. 1 1 1 2 2 2 4 4 erial orene Nitrile	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Discharge Manifold Solt Suction Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater Diaphragm P/N V183BN-1	Assembly	SV187A SV189C SV185B E120A E120A Part Number 7.604 (PTFE 354 (XL F 354 (XL F 354 (XL F U188TF V188XL SV189 O-R	KĒ108 KE104 KE120 KE120F EFitted) 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.604 Fitted) 475.V010.354 KE186 KE187 KV188
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 Mate Neop Buna Vit	4 2 16 16 1 4 1 4 3 Qty. 1 1 1 2 2 2 4 4 erial orene Nitrile on	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater Diaghragm P/N V183BN-1 V183VT-1	Assembly	SV187A SV189C SV185B I E120A I E120B SV189C Part Number 7.604 (PTFE 354 354 V188TF V188TF V188XL SV189	KĒ108 KE104 KE120 KE120F KE120F KE120F KE120F KE180 475.V009.604 Fitted) 475.V009.354 Fitted) 475.V010.354 KE186 KE187 KV188 KV188
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 Mate Neop Buna Vit	4 2 16 16 1 4 1 4 8 Qty. 1 1 1 2 2 4 4 erial orene Nitrile on rdel	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Discharge Manifold Bolt Suction Manifold Solt Suction Manifold Solt Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater V183N-1 V183N-1 V183N-1 V183ND-1	Assembly	SV187A SV189C SV185B E120A E120A Part Number Part Number C604 (PTFE 354 (XL F 354 (XL F 354 (XL F U188TF V188TF V188XL SV189 O-R	KĒ108 KE104 KE120 KE120F KE12F KE120F KE12F KE
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26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 41 Mate Neop Buna Vitt Nor Santo	4 2 16 16 1 4 1 4 8 Qty. 1 1 1 2 2 4 4 erial on rdel prene	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater Diaphragm P/N V183N-1 V183N-1 V183ND-1 V183TPEKL-1 V183TPEFG V183G	Assembly	SV187A SV189C SV185B E120A E120A Part Number C604 (PTFE 354 (XLF 354 (XLF 354 (XLF 354 (XLF 354 (XLF V188TF V188TF V188XL SV189 O-R V V	KĒ108 KE104 KE120 KE120F KE12F
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 41 41 Mate Neop Buna Vit Nor Santo Lang Buna	4 2 16 16 16 1 4 1 4 8 Qty. 1 1 2 2 4 4 erial orene Nitrile on rdel prene trel Jast etal	Description Valve Seat Water Chamber Bolt Water Chamber Washer Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater Diaphragm P/N V183N-1 V183N-1 V183ND-1 V183TPEXL-1 V183G N/A	Assembly	SV187A SV189C SV185B E120A E120A Part Number 7.604 (PTFE 354 (XL F 554 (XL F 554 (XL F 554 (XL F V188TF V188XL SV189 O-R V V	KĒ108 KE104 KE120 KE120F KE12F KE1
26 27 28 29 30 31 32 33 34 29 Item # 35 36 37 38 39 40 40 41 41 41 Mate Neop Buna Viti Nor Santo Hyj Geo	4 2 16 16 16 1 4 1 4 8 Qty. 1 1 2 2 4 4 erial orene Nitrile on rdel prene trel Jast etal	Description Valve Seat Water Chamber Bolt Water Chamber Bolt Water Chamber Washer Water Chamber Nut Discharge Manifold Discharge Manifold Bolt Suction Manifold Bolt Suction Manifold Bolt Manifold Washer Optional CP Ma Description Discharge Manifold ASY (includes items 40,42,43 44) Suction Manifold ASY (includes items 41,42,43 44) Discharge Elbow Suction Elbow Manifold Tee PTFE Fitted Manifold Tee O-Ring XL Fitted Manifold Tee O-Ring Clamp Assembly Elastomer Mater Diaphragm P/N V183N-1 V183N-1 V183ND-1 V183TPEKL-1 V183TPEFG V183G	Assembly	SV187A SV189C SV185B E120A E120A Part Number 7.604 (PTFE 354 (XL F 554 (XL F 554 (XL F 554 (XL F V188TF V188XL SV189 O-R V V	KĒ108 KE104 KE120 KE120F KE12F



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 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® 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 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:

04/19/2012 REV 07

Dave Roseberry Engineering Manager

DATE: August 10, 2011 FECHA: DATUM:

VMQR 044FM



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DATA:

DATO:

PÄIVÄYS:

2006/42/EC on Machinery, according to Annex VIII

EN809:1998+

A1:2009

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



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• Improve parts availability

• Extended service life