

1: PUMP SPECS

2: INSTAL & OP

3: EXP VIEW

4: WARRANTY

Safety Information

IMPORTANT



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



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



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



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

Nonmetallic pumps and plastic components are not UV



WARNING

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



WARNING

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

WARNING



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.

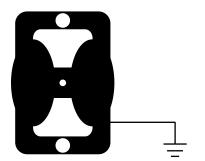


This pump is pressurized internally with air pressure during operation. Make certain that all fasteners are in good condition and are reinstalled properly during reassembly.



Use safe practices when lifting

Grounding ATEX Pumps



ATEX compliant pumps are suitable for use in explosive atmospheres when the equipment is properly grounded in accordance with local electrical codes. Pumps equipped with electrically conductive diaphragms are suitable for the transfer of conductive or non-conductive fluids of any explosion group. When operating pumps equipped with non-conductive diaphragms that exceed the maximum permissible projected area, as defined in EN 13463-1: 2009 section 6.7.5 table 9, the following protection methods must be applied:

- · Equipment is always used to transfer electrically conductive fluids or
- · Explosive environment is prevented from entering the internal portions of the pump, i.e. dry running

For further guidance on ATEX applications, please consult the factory.



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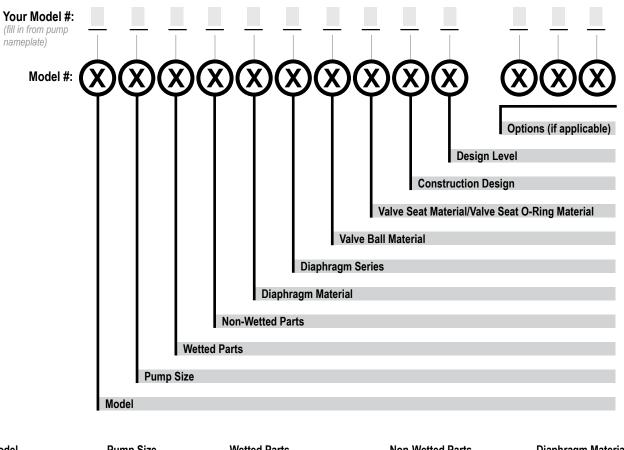
- Warranty
- EC Declaration of Conformity Machinery
- EC Declaration of Conformity ATEX





Explanation of Pump Nomenclature

Your Serial #: (fill in from pump nameplate)



Model E Elima-Matic U Ultra-Matic V V-Series	Pump Size 6 1/4" 8 3/8" 5 1/2" 7 3/4" 1 1" 4 1-1/4" or 1-1/2" 2 2" 3 3"	Wetted Parts A Aluminum C Cast Iron S Stainless Steel H Alloy C P Polypropylene K Kynar G Groundable Acetal B Aluminum (screen mount)	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	Diaphragm Material 1 Neoprene 2 Nitrile (Nitrile) 3 FKM (Fluorocarbon) 4 EPDM 5 PTFE 6 Santoprene XL 7 Hytrel Y FDA Santoprene
Diaphragm Series R Rugged D Dome X Thermo-Matic T Tef-Matic (2-piece) B Versa-Tuff (1-piece) F FUSION (one-piece integrated plate)	Valve Ball Material Valve 1 Neoprene 2 Nitrile 3 (FKM) Fluorocarbon 4 EPDM 5 PTFE 6 Santoprene XL 7 Hytrel 8 Polyurethane A Acetal S Stainless Steel Y FDA Santoprene	Seat/Valve Seat O-Ring Material 1 Neoprene 2 Nitrile 3 (FKM) Fluorocarbon 4 EPDM 5 PTFE 6 Santoprene XL 7 Hytrel 8 Polyurethane A Aluminum w/ PTFE O-Rings S Stainless Steel w/ PTFE O-Rings C Carbon Steel w/ PTFE O-Rings H Alloy C w/ PTFE O-Rings T PTFE Encapsulated Silicone O-R		Miscellaneous Options B BSP Tapered Thread CP Center Port ATEX ATEX Compliant FP Food Processing SP Sanitary Pump HP High Pressure OE Original Elima-Matic F Flap Valve HD Horizontal Discharge 3A 3-A Certified UL UL Listed OB Oil Bottle

Y FDA Santoprene

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





Materials

Material Profile:		rating ratures:	Polypropylene: A thermoplastic polymer. Moderate tensile 180°F 3 and flex strength. Resists stong acids and alkali. Attacked by 82°C 0 ablation further strength for the streng strength for the strengt for the strength for the strength for the strength for			
		Min.	chlorine, fuming nitric acid and other strong oxidizing agents.			
Conductive Acetal: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing		-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	
agents.			Santoprene®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion	275°F 135°C	-40°F -40°C	
EPDM: Shows very good water and chemical resistance. Has poor resistance to oils and solvents, but is fair in ketones and	280°F 138°C	-40°F -40°C	resistance.			
alcohols.	130 0	-40 C	UHMW PE: A thermoplastic that is highly resistant to a broad 180°F -35° range of chemicals. Exhibits outstanding abrasion and impact 82°C -37°			
FKM: (Fluorocarbon) Shows good resistance to a wide range of oils and sovents; especially all aliphatic, aromatic and	350°F 177°C	-40°F -40°C	resistance, along with environmental stress-cracking resistance.	02 0	-57 0	
halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.		-40°0	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;	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	molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures.			
hydrocarbons.			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.			
Nitrile: General purpose, oil-resistant. Shows good solvent, oil,	190°F 88°C	-10°F	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		-23°C	Metals:			
hydrocarbons and nitro hydrocarbons.			Alloy C: Equal to ASTM494 CW-12M-1 specification for nickel and	d 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 32°F 82°C 0°C		Stainless Steel: Equal to or exceeding ASTM specification A743 CF-8M for corrosion resistant iron chromium, iron chromium nickel and nickel based alloy castings for general applications. Commonly referred to as 316 Stainless Steel in the pump industry.			

Ambient Temperature Range: -20°C to +40°C

Process Temperature Range: -20°C to +80°C for conductive plastic pumps -20°C to +95°C for metallic pumps For specific applications, always consult the Chemical Resistance Chart.

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

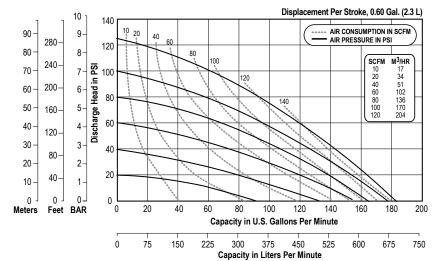


Performance

E2 - 2" Clamped Pump – Metallic Center ELASTOMERIC AND TPE FITTED - RUGGED

Flow Rate

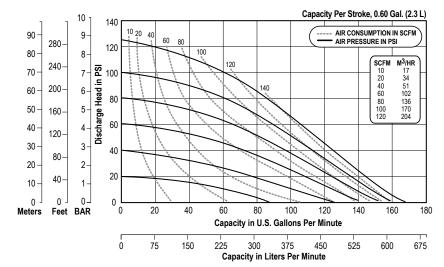
Adjustable to 0-185 gpm (700 lpm)
Port Size
Suction
Discharge
Air Inlet
Air Exhaust 1" NPT
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
Max Noise Level
Shipping Weights
Aluminum
Cast Iron
Stainless



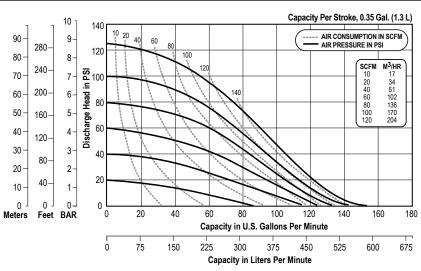
NOTE: Performance based on the following: elastomeric fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.

E2 - 2" Clamped Pump – Metallic Center ELASTOMERIC AND TPE FITTED - DOMED

Flow Rate
Adjustable to 0-167 gpm (632 lpm)
Port Size
Suction
Discharge 2" NPT
Air Inlet
Air Exhaust 1" NPT
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
1/4" (6.4 mm)
Max Noise Level
Shipping Weights
Aluminum
Cast Iron
Stainless
** Stainless Center add



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%.



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

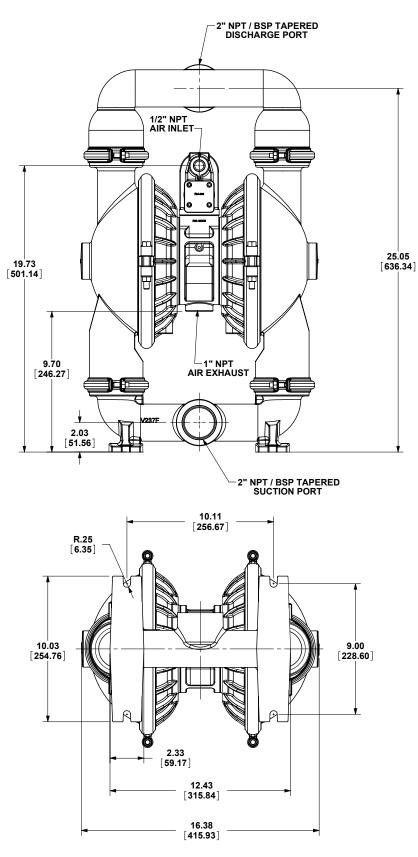


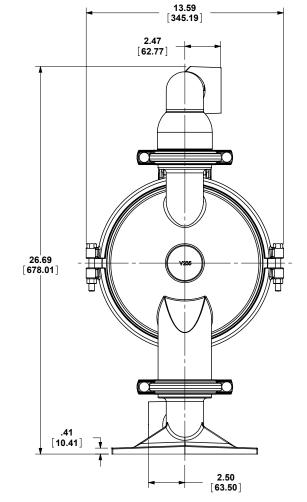
E2 - 2" Clamped Pump – Metallic Center
PTFE FITTED

Flow Rate Adjustable to 0-153 gpm (579 lpm) Port Size
Suction
Discharge 2" NPT
Air Inlet
Air Exhaust
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
Max Noise Level 102 dB(A)
Shipping Weights
Aluminum
Cast Iron
Stainless
** Stainless Center add

E2 Metallic Clamped 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.

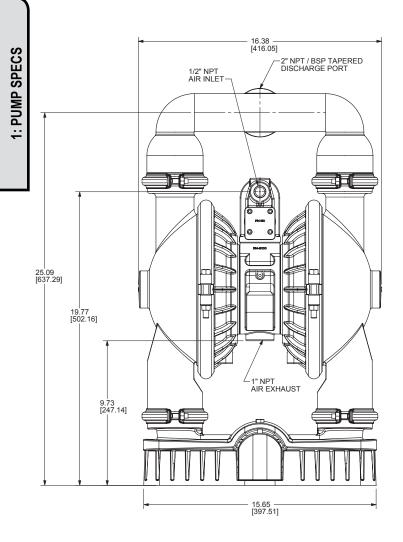


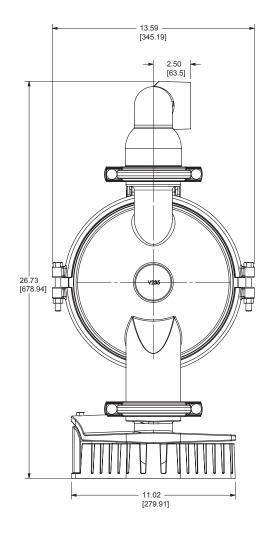


VERSA-MATIC e2mdlCsmATEXC-rev0317

WWW.VERSAMATIC.COM

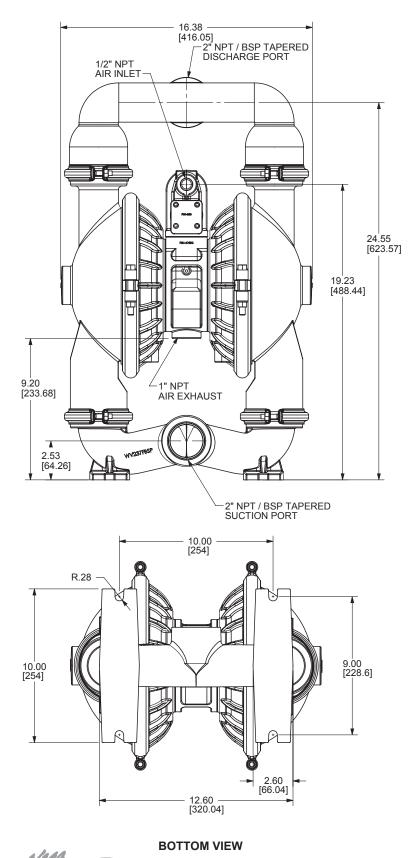
E2 Metallic Clamped - Base Mount Aluminum Dimensions in inches (mm dimensions in brackets) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.

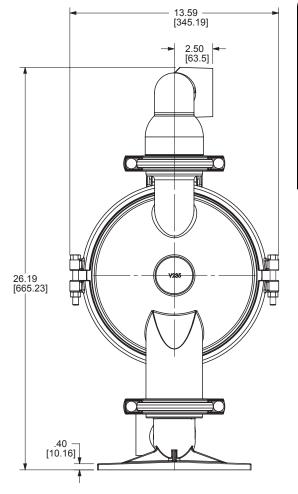






E2 Metallic Clamped - Cast Iron Dimensions in inches (mm dimensions in brackets) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.

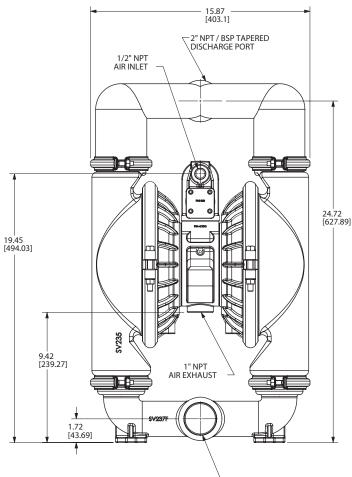




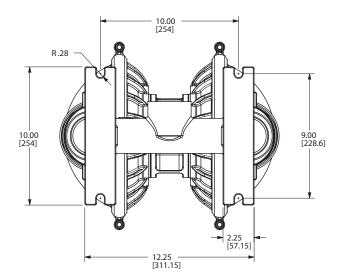
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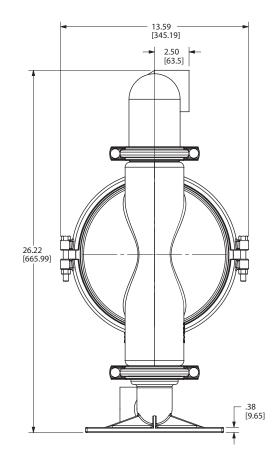
E2 Metallic Clamped - Stainless Dimensions in inches (mm dimensions in brackets) The dimensions on this drawing are for reference only. A certified drawing can be requested if physical dimensions are needed.



2" NPT / BSP TAPERED SUCTION PORT

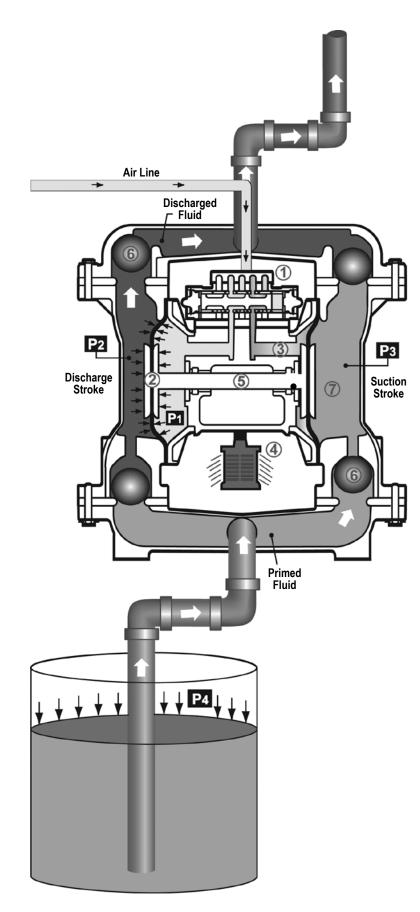


BOTTOM VIEW





Principle of Pump Operation





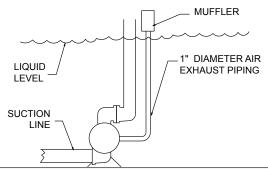
Air-Operated Double Diaphragm (AODD) pumps are powered by compressed air or nitrogen.

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

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

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

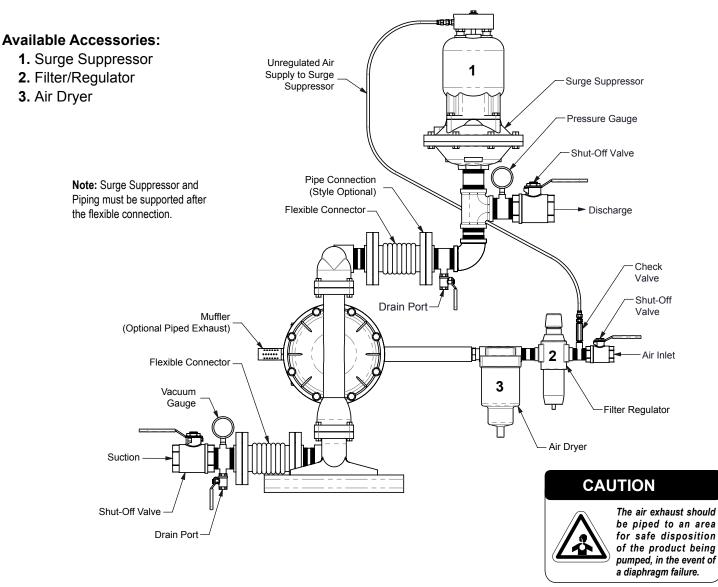
Suction (side) stroking also initiates the reciprocating (shifting, stroking or cycling) action of the pump. The suction diaphragm's movement is mechanically pulled through its stroke. The diaphragm's inner plate makes contact with an actuator plunger aligned to shift the pilot signaling valve. Once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



SUBMERGED ILLUSTRATION

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

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.

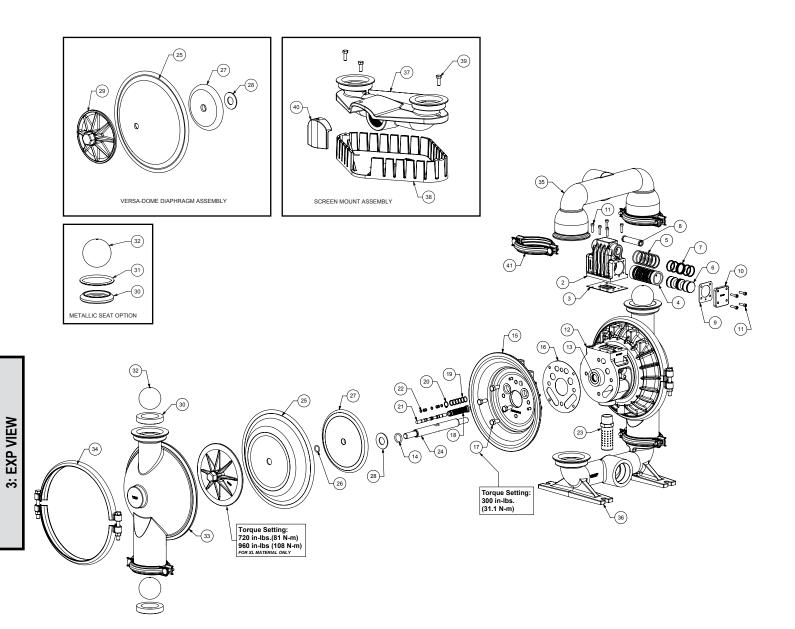


Troubleshooting Guide

Symptom:	Potential Cause(s):	Recommendation(s):		
Pump Cycles Once	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).		
	Air valve or intermediate gaskets installed incorrectly.	Install gaskets with holes properly aligned.		
	Bent or missing actuator plunger.	Remove pilot valve and inspect actuator plungers.		
Pump Will Not Operate	Pump is over lubricated.	Set lubricator on lowest possible setting or remove. Units are designed for lube free operation.		
/ Cycle	Lack of air (line size, PSI, CFM).	Check the air line size and length, compressor capacity (HP vs. cfm required).		
/ • • • • • •	Check air distribution system.	Disassemble and inspect main air distribution valve, pilot valve and pilot valve actuators.		
	Discharge line is blocked or clogged manifolds.	Check for inadvertently closed discharge line valves. Clean discharge manifolds/piping.		
	Deadhead (system pressure meets or exceeds air supply pressure).	Increase the inlet air pressure to the pump. Pump is designed for 1:1 pressure ratio at zero flow. (Does not apply to high pressure 2:1 units).		
	Blocked air exhaust muffler.	Remove muffler screen, clean or de-ice, and re-install.		
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.		
	Pump chamber is blocked.	Disassemble and inspect wetted chambers. Remove or flush any obstructions.		
Pump Cycles and Will	Cavitation on suction side.	Check suction condition (move pump closer to product).		
Not Prime or No Flow	Check valve obstructed. Valve ball(s) not seating properly or sticking.	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket. Clean out around valve ball cage and valve seat area. Replace valve ball or valve seat if damaged. Use heavier valve ball material.		
	Valve ball(s) missing (pushed into chamber or manifold).	Worn valve ball or valve seat. Worn fingers in valve ball cage (replace part). Check Chemical Resistance Guide for compatibility.		
	Valve ball(s)/seat(s) damaged or attacked by product.	Check Chemical Resistance Guide for compatibility.		
	Check valve and/or seat is worn or needs adjusting.	Inspect check valves and seats for wear and proper setting. Replace if necessary.		
	Suction line is blocked.	Remove or flush obstruction. Check and clear all suction screens or strainers.		
	Excessive suction lift.	For lifts exceeding 20' of liquid, filling the chambers with liquid will prime the pump in most cases.		
	Suction side air leakage or air in product.	Visually inspect all suction-side gaskets and pipe connections.		
	Pumped fluid in air exhaust muffler.	Disassemble pump chambers. Inspect for diaphragm rupture or loose diaphragm plate assembly.		
Pump Cycles Running	Over lubrication.	Set lubricator on lowest possible setting or remove. Units are designed for lube free operation.		
Sluggish/Stalling,	Icing.	Remove muffler screen, de-ice, and re-install. Install a point of use air drier.		
Flow Unsatisfactory	Clogged manifolds.	Clean manifolds to allow proper air flow		
	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 cas		
	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.		

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







Composite Repair Parts List - Elastomeric and TPE Fitted

			Air Valve Assembly	Part N	umber	
ltem #	Qty.	Description	Aluminum	Stainless Steel		PTFE Coated
		Air Side Repair Kit (Includes Items		476 VC)19.000	
4		3,5,7,9,14,16,18-22)	004 \/000 450			004 1/000 000
2	1	Valve Body (includes items 2-11) Valve Body	031.V002.156 095.V001.156	031.V002.110 095.V001.110	031.V002.332 095.V001.332	031.V002.309 095.V001.309
3	1	Valve Body Valve Body Gasket	095.0001.150		-202	095.0001.509
4	1	Valve Sleeve			06.148	
5	6	O-ring		560.20	06.360	
6	1	Valve Spool Assembly (Includes items 7)			001.000	
7	6	Glyde Ring Assembly	D04 040		204F	D04 040
8	1	Air Valve Screen	P24-210	P34-210	P24-210	P24-210
10	2	End Cap Gasket End Cap	P34-300		- <u>205</u> 4-300	P34-300TC
11	13	Mounting Screws (8 included on item 1)	10	S10		1 0+-00010
			enter Section Assemb			
em #	Qty.	Description			lumber	
12	4.1 .	Center Block Assembly (Includes item 13 &14)	Aluminum P24-400DC ASY	Stainless Steel SP24-400	Nickel Plated P24-401NP	PTFE Coated P24-401TC
13	2	Bearing Sleeve	FZ4-400DC AST		<u>-403</u>	F24-40110
14	2	Main Shaft O-Ring			-403	
15	2	Air Chamber	196.V002.157	196.V002.110	196.V002.332	196.V002.309
16	2	Air Chamber Gasket		360.V0	01.360	
17	8	Bolt	P24-110		SP24-110	
40		Pilot Repair Kit (Includes Items 18-22))18.000	
<u>18</u> 19	6	Pilot Sleeve Assembly (include item 19) O-ring) <u>02.000</u> 01.358	
20	0	Retaining Ring			37.080	
21		Pilot Spool Assembly (Includes item 22)			02.000	
22	8	O-ring			23.358	
23	1	Muffler		530.03	33.000	
em #	Qty.	Diaph	ragm Assembly / Elast	Part N	umber	
	Q(1).	-	Versa-	Rugged	Versa-	Dome
<u>24</u> 25		Main Shaft Diaphragm (See Below Material Chart)	\/??	P24	-103 V22	5vv
<u>25</u> 26	$\frac{2}{2}$			21D	N/	
27	2	Inner Diaphragm Plate (See Note 2 Below)		221BNP, V221BTC	V226B, SV226B, V2	
28	2	Bumper Washer		P24	-501	
29	2	Outer Diaphragm Plate (See Note 1 Below)	VB221, WVB221,		VB226,SVB2	26, HVB226
30	4	Valve Seat (See Below Material Chart)			10xx	
<u>31</u> 32	4	Valve Seat O-Ring (See Below Material Chart)			Note 4	
32	4	Valve Ball (See Below Material Chart)	Wet End Assembly	V24	11xx	
em #	Qty.	Description			umber	
33	1	Water Chamber	Aluminum V235	Cast Iron WV235	SV235	Hastelloy HV235
34	2	Large Clamp Assembly		30	SV200 SV2	
35	1	Discharge Manifold	V236	WV236	SV236	HV236
	1	Discharge Manifold (BSP Option)	V236BSP	WV236BSP	SV236BSP	HV236BSP
36	<u> </u>	Suction Manifold (Footed Option)	V237F	WV237F	SV237F	HV237F
37	1	Suction Manifold (BSP Footed Option)	V237FBSP	WV237FBSP	SV237FBSP	HV237FBSP
<u>37</u> 38		Suction Manifold (Screen Mount Option) Screen (Screen Mount Only)	V237 V238	N/A N/A	N/A N/A	N/A N/A
<u>39</u>	3	Bolt (Screen Mount Only)	V238A	N/A	N/A	N/A
40	Ĭ	Hook Up Cover (Screen Mount Only)	V200/(V242	N/A	N/A	N/A
41	4	Small Clamp Assembly	V2	39	SV2	39
	_		omer Material Specific Versa-Dome	ations Ball		
Mate	erial	Versa-Rugged Diaphragm P/N	Diaphragm P/N	P/N"	Seat P/N	Seat O-Ring
Neop	rene	V224N	V225N	V241N	V240N	N/A
Nít	rile	V224BN	V225BN	V241BN	V240BN	N/A
	M	V224VT	V225VT	V241VT	V240VT	N/A
		V224ND	V225ND	V241ND	V240ND	N/A
EP	FF	N/A V224TPEXL	N/A V225TPEXL			V240T
EPI PT			VZZDIPEXL	V241TPEXL V241TPEFG	V240TPEXL V240TPEFG	N/A N/A
EP PT Santo	prene		1 1/22610610			
EPI PT Santo Hy	prene trel	V224TPEFG	V225TPEFG N/A			
EPI PT Santo Hy Alum	prene trel inum	V224TPEFG N/A	N/A	N/A	V240A (See Note 3)	N/A
EP PT Santo Hy Alum Carbor	prene trel inum n Steel ss Steel	V224TPEFG				

Notes:

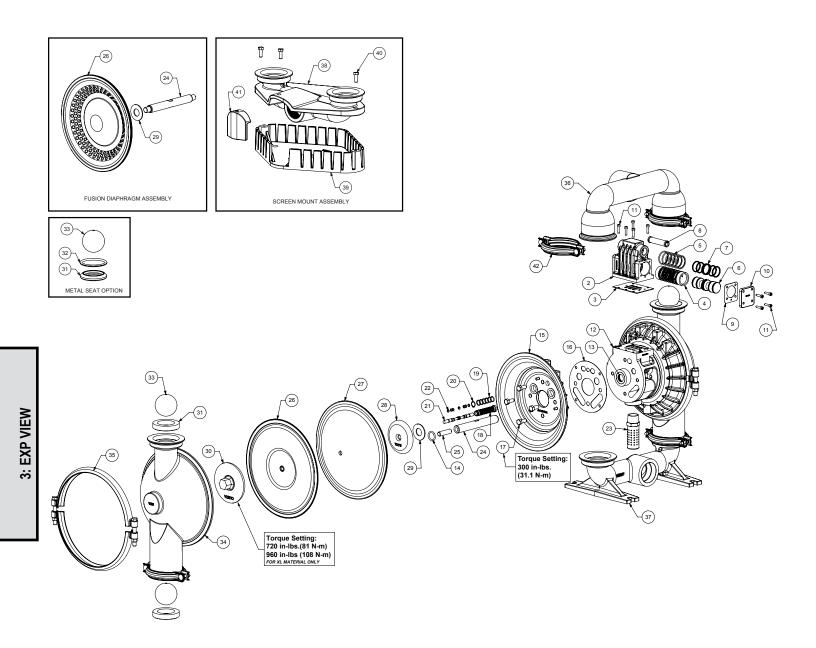
1.) The outer diaphragm plate material is to match the water chamber material (Cast Iron dome fitted pumps are to use SVB226 outer diaphragm plate)

The inner diaphragm plate material is to match the air chamber material 2.)

3.) This metallic seat material is to match the water chamber material. In addition to this seat, (4) o-rings are needed. (Ref Note 4)

4.) These (4) o-rings are only used with metallic fitted seats.
5.) (4) V240T seat o-rings are used with metallic seats only.
6.) V=Aluminum, SV=Stainless Steel, WV=Cast Iron, H =Hastelloy, TC=PTFE Coated, NP=Nickel Plated







Composite Repair Parts List - PTFE Fitted

			Air Valve Assembly			
Item #	Qty.	Description	Aluminum	Part N Stainless Steel	lumber Nickel Plated	PTFE Coated
		Air Side Repair Kit (Includes Items	Alullillulli			FIFE Coaleu
		3.5.7.9.14.16.18-22)			019.000	
1	1	Valve Body (includes items 2-11)	031.V002.156	031.V002.110	031.V002.332	031.V002.309
2		Valve Body	095.V001.156	095.V001.110	095.V001.332	095.V001.309
3		Valve Body Gasket Valve Sleeve		P24	- <u>202</u> 006.148	
<u>4</u> 5	6	O-ring			06.360	
6		Valve Spool Assembly (Includes items 7)			00.300	
7	6	Glyde Ring Assembly			-204F	
8	1	Air Valve Screen	P24-210	P34-210	P24-210	P24-210
9	2	End Cap Gasket		P24	-205	
10	2	End Cap	P34-300		4-300	P34-300TC
11	13	Mounting Screws (8 included on item 1)			001	
	1		enter Section Assemb		lumber	
Item #	Qty.	Description	Aluminum	Stainless Steel	Nickel Plated	PTFE Coated
12	1	Center Block Assembly (Includes item 13 & 14)	P24-400DC ASY	SP24-400	P24-401NP	P24-401TC
13	2	Bearing Sleeve		P31	-403	
14	2	Main Shaft O-Ring		P24	-403	
15	2	Air Chamber	196.V002.157	196.V002.110	196.V002.332	196.V002.309
16	2	Air Chamber Gasket	D04 440	360.VC	001.360	
17	8	Bolt Pilot Repair Kit (Includes Items 18-22)	P24-110	176 \//	<u>SP24-110</u> 018.000	
18	1	Pilot Sleeve Assembly (include item 19)		4/0.VC	02.000	
19	6	O-ring		560.1	01.358	
20	1	Retaining Ring			37.080	
21	1	Pilot Spool Assembly (Includes item 22)		775.V0	02.000	
22	8	O-ring		560.0	23.358 33.000	
23	1	Muffler			33.000	
	1		ragm Assembly / Elast		lumber	
Item #	Qty.	Description	PTFF Tv	vo-Piece	lumber Eus	ion
24	1	Main Shaft		-102		103F
25	2	Main Shaft Stud	V2	21F	N N	/A
26	2	Diaphragm	V22	4TF		24F
27	2	Back-Up Diaphragm (See Note 4 Below)	V224TFB,	V224TFB-1	N	
28	2	Inner Diaphragm Plate	V221TI, SV221TI* (See no			/A
29	2*	Bumper Washer			See note 6)	
<u>30</u> 31	1 2	Outer Discharger Dists (Cas Nate 1 Dalaw)				/ •
	1	Outer Diaphragm Plate (See Note 1 Below)	VZZ110,3VZZ	1TO, HV221TO		<u>/A</u>
	4	Valve Seat (See Below Material Chart)		V24	40xx	/Α
32	4 4 4	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart)	V22110,3V22	V24 V240T (S	40xx ee Note 3)	/Α
	4	Valve Seat (See Below Material Chart)	Wet End Assembly	V240T (S V240T (S V24	40xx ee Note 3) 41xx	/A
<u>32</u> 33	4	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart)	Wet End Assembly	V24 V240T (S V24 V24 Part N	40xx ee Note 3) 41xx Iumber	
32 33 Item #	4	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description	Wet End Assembly Aluminum	V24 V240T (S V24 V24 Part N Cast Iron	40xx ee Note 3) 41xx lumber Stainless Steel	Hastelloy
32 33 Item # 34	4 4 Qty.	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber	Wet End Assembly Aluminum V235	V24 V240T (S V22 Part N Cast Iron WV235	40xx ee Note 3) 41xx lumber Stainless Steel SV235	Hastelloy HV235
32 33 Item # 34 35	4	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly	Wet End Assembly Aluminum V235 V2	V24 V240T (S V24 Part N Cast Iron WV235 30	40xx ee Note 3) 41xx Iumber Stainless Steel SV235 SV2	Hastelloy HV235 230
32 33 Item # 34	4 4 Qty.	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly Discharge Manifold	Wet End Assembly Aluminum V235 V2 V236	V24 V240T (S V24 Part N Cast Iron WV235 30 WV236	40xx ee Note 3) 41xx Stainless Steel SV235 SV236	Hastelloy HV235 230 HV236
32 33 Item # 34 35	4 4 Qty.	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly	Wet End Assembly Aluminum V235 V236 V236BSP V237F	V24 V240T (S V24 V24 V24 V24 V24 V24 V24 V24 V235 30 WV235 WV236 WV236 BSP WV237F	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237F	Hastelloy HV235 230 HV236 HV236BSP HV237F
32 33 Item # 34 35 36 37	4 4 Qty.	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (BSP Footed Option)	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP	V24 V240T (S V24 V24 V24 V24 V24 V24 V24 V24 V225 30 WV235 WV236 BSP WV236 WV237 F WV237 F WV237 F SP	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237F SV237FBSP	Hastelloy HV235 230 HV236 HV236BSP HV237F HV237FBSP
32 33 Item # 34 35 36 37 38	4 4 Qty.	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option)	Wet End Assembly Aluminum V235 V236 V236BSP V237FBSP V237FBSP V237	V24 V240T (S V24 Part N Cast Iron WV235 30 WV236 WV236BSP WV237F WV237FBSP N/A	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV236BSP SV237FBSP N/A	Hastelloy HV235 230 HV2366 HV236BSP HV237F HV237FBSP N/A
32 33 Item # 34 35 36 37 37 38 39	4 4 1 2 1 1 1 1 1 1 1	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (SSP Footed Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Only)	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V237 V238	V24 V240T (S V22 Part N Cast Iron WV235 30 WV236BSP WV236BSP WV237FBSP WV237FBSP N/A N/A	40xx ee Note 3) 41xx Iumber Stainless Steel SV235 SV236 SV236 SV236BSP SV237FBSP SV237FBSP N/A N/A	Hastelloy HV235 230 HV2366 HV236BSP HV237F HV237FBSP N/A N/A
32 33 Item # 34 35 36 37 37 38 39 40	4 4 Qty.	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Uscharge Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Oply) Bolt (Screen Mount Only)	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V238 V238	V24 V240T (S V22 Part N Cast Iron WV235 30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237FBSP N/A N/A N/A	Hastelloy HV235 230 HV236 HV236BSP HV237F HV237FBSP N/A N/A N/A
32 33 Item # 34 35 36 37 38 39 40 41	4 4 2 1 1 1 1 1 1 1 3 1	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Use Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Sereen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only)	Wet End Assembly Aluminum V235 V236 V236BSP V237FBSP V237FBSP V237 V237 V238 V238 V238A V242	V24 V240T (S V24 V24 V24 V24 V235 30 WV235 30 WV236 BSP WV236BSP WV237FBSP WV237FBSP N/A N/A N/A N/A	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237FBSP N/A N/A N/A N/A	Hastelloy HV235 230 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A
32 33 Item # 34 35 36 37 37 38 39 40	4 4 1 2 1 1 1 1 1 1 1	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V238 V238 V238A V242 V242	V24 V240T (S V24 V24 V24 V24 V235 30 WV235 30 WV236 BSP WV236BSP WV237FBSP WV237FBSP N/A N/A N/A N/A N/A 39	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237FBSP N/A N/A N/A N/A	Hastelloy HV235 230 HV236 HV236BSP HV237F HV237FBSP N/A N/A N/A
32 33 Item # 34 35 36 37 38 39 40 41 42	4 4 1 2 1 1 1 1 1 1 1 3 1 4	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Uater Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly	Wet End Assembly Aluminum V235 V236 V236BSP V237FBSP V237FBSP V237 V237 V238 V238 V238A V242	V24 V240T (S V24 V240T (S V24 V235 30 WV235 30 WV236 BSP WV236BSP WV237FBSP WV237FBSP N/A N/A N/A N/A N/A N/A 39 ations	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237FBSP N/A N/A N/A N/A N/A SV2	Hastelloy HV235 230 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A
32 33 Item # 34 35 36 37 38 39 40 41	4 4 1 2 1 1 1 1 1 1 1 1 4 erial	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Water Chamber Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V238 V238 V238A V242 V242	V24 V240T (S V24 V240T (S V24 Part N WV235 30 WV236 WV236BSP WV236BSP WV237FBSP WV237FBSP N/A N/A N/A N/A N/A S9 ations	40xx ee Note 3) 41xx Stainless Steel SV235 SV236 SV236BSP SV237FBSP N/A N/A N/A N/A	Hastelloy HV235 230 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A
32 33 Item # 34 35 36 37 38 39 40 41 42 Mate	4 4 1 2 1 1 1 1 1 1 1 4 erial	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Uarge Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (SP Footed Option) Suction Manifold (Sreen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Bolt (Samp Assembly Elaste "Ball P/N" V241TF N/A	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V238 V238 V238A V242 V242	V24 V240T (S V22 Part N Cast Iron WV235 30 WV236 WV237F WV237FBSP WV237FBSP N/A N/A N/A N/A N/A S9 ations Sea V240A (See	40xx ee Note 3) 41xx Iumber Stainless Steel SV235 SV236 SV237F SV237FBSP N/A	Hastelloy HV235 230 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A
32 33 Item # 34 35 36 37 37 38 39 40 41 42 Mate PTI Alum Carbor	4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 4 erial FE inum n Steel	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Uarge Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (Sereen Mount Option) Suction Manifold (Sereen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elaste "Ball P/N" V/A N/A N/A	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V238 V238 V238A V242 V242	V24 V240T (S V24 V240T (S V24 V24 V240T (S V24025 30 WV235 30 WV235 WV237F WV237F WV237F WV237F WV237F N/A N/A N/A N/A S9 ations Sea V24 V240CS (See V240CS (See	40xx ee Note 3) 41xx Iumber Stainless Steel SV235 SV236BSP SV237FBSP N/A N/A	Hastelloy HV235 230 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A
32 33 Item # 34 35 36 37 37 38 39 40 41 42 42 Mate PT Alum	4 4 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 4 8 FE inum n Steel s Steel	Valve Seat (See Below Material Chart) Valve Seat O-Ring (See Below Material Chart) Valve Ball (See Below Material Chart) Description Uarge Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (BSP Footed Option) Suction Manifold (SP Footed Option) Suction Manifold (Sreen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Bolt (Samp Assembly Elaste "Ball P/N" V241TF N/A	Wet End Assembly Aluminum V235 V236 V236BSP V237F V237FBSP V237 V237 V238 V238 V238A V242 V242	V24 V240T (S V24 V240T (S V24 Part N Cast Iron WV235 30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A N/A N/A S9 ations Sea V240A (See SV240 (See SV240 (See	40xx ee Note 3) 41xx Iumber Stainless Steel SV235 SV236 SV237F SV237FBSP N/A	Hastelloy HV235 230 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A

Notes:

1.) The outer diaphragm plate material is to match the water chamber material (Cast Iron Uses SV221TO)

2.) This metallic seat material is to match the water chamber material. In addition to this seat, (4) o-rings are needed. (Ref Note 3)

3.) These (4) o-rings are only used with metallic fitted seats.

4.) Only Cast Iron uses back-up diaphragm p/n V224TFB-1

5.) V=Aluminum, SV=Stainless Steel, WV=Cast Iron, H =Hastelloy, TC=PTFE Coated, NP=Nickel Plated

6.) On pumps fitted with stainless steel center sections - increase quantity to 4



3: EXP VIEW

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.

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

~ See complete warranty at http://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 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:

06/14/2017 REV 08

oselve Dave Roseberry

Dave Roseberry Director of Engineering

Authorized Representative: IDEX Pump Technologies R79 Shannon Industrial Estate, Shannon, Co. Clare Ireland Attn: Barry McMahon DATE: February 27, 2017 FECHA: DATUM: DATA:

2006/42/EC

EN809:1998+

A1:2009

to Annex VIII

on Machinery, according





15 • Model E2 Metallic Clamped

WWW.VERSAMATIC.COM

DATO:

PÄIVÄYS:

EC / EU DECLARATION OF CONFORMITY

The objective of the declaration described is in conformity with the relevant Union harmonisation legislation: Directive 94/9/EC (until April 19, 2016) and Directive 2014/34/EU (from April 20, 2016).

Date of Issue:	10 May 2014
Technical File No.:	203104000-1410/MER
Quality System Registration No:	ISO 9001-2000
Conforming Apparatus:	Air-Operated Metal Double Diaphragm Pumps for Use In Potentially Explosive Atmospheres
Hazardous Location Applied:	Elima-Matic metallic pumps
	1. I M2 c
	2. II 2G c T5
	3. II 2D c T100°C
	Elima-Matic non-metallic pumps
	4. II 2G c T6
	5. II 2D c T85°C
Manufacturer:	Warren Rupp, Inc., A Unit of IDEX Corporation 800 North Main Street, P.O. Box 1568 Mansfield, OH 44901-1568 USA.
On File With:	DEKRA Certification B.V. (0344) Meander 1051 6825 MJ Arnhem The Netherlands
Harmonized Standards Applied:	EN 13463-1:2009 Non-Electrical Equipment Potentially Explosive Atmospheres-Part 1 Basic Methods and Requirements EN 13463-5:2011 Non-Electrical Equipment for Potentially Explosive Atmospheres-Part 5 Protection by Constructional Safety
Equipment:	1. Elima-Matic Series metal pumps
	2. Elima-Matic Series non-metallic pumps

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

DATE/OF REVISION/TITLE: 07 April 2016



avid Reseberry

Dave Roseberry Director of Engineering

