

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

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





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.



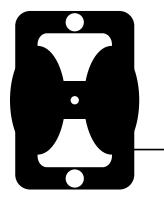
This pump is pressurized internally with air pressure during operation. Make certain that all fasteners are in good condition and are reinstalled properly during reassembly.



Use safe practices when lifting

Grounding 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.



A 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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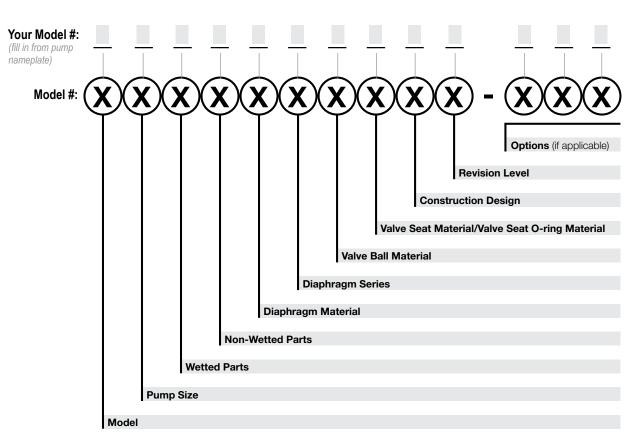
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Model

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

6 1/4"

8 3/8"

5 1/2"

7 3/4"

1 1"

2 2"

3 3"

1 Neoprene

2 Nitrile

4 ÈPDM

5 PTFE

7 Hytrel

9 Geolast

A Acetal

8 Polyurethane

Stainless Steel

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)

A Aluminum C Cast Iron S Stainless Steel H Alloy C P Polypropylene 4 1-1/4" or 1-1/2" K Kynar G Groundable Acetal B Aluminum (screen mount) Valve Ball Material Valve Seat/Valve Seat O-Ring Material 1 Neoprene 2 Nitrile 3 (FKM) Fluorocarbon 3 (FKM) Fluorocarbon 4 EPDM 5 PTFE 6 Santoprene XL

Wetted Parts

- 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) 4 EPDM 5 PTFE 7 Hytrel
 - 3 FKM (Fluorocarbon) 6 Santoprene XL 9 Geolast



Materials

Material Profile:	Operating Temperatures:		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	Max. 190°F	Min. -20°F	PVDF: (Polyvinylidene Fluoride) A durable fluoroplastic with	250°F	0°F		
abrasion resistance and low friction surface. Generally inert, with good chemical resistance except for strong acids and oxidizing	88°C	-29°C	excellent chemical resistance. Excellent for UV applications. High tensile strength and impact resistance.	121°C	-18°C		
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	275°F 135°C	-40°F -40°C		
poor resistance to oils and solvents, but is fair in ketones and alcohols.	138°C	-40°C	resistance. UHMW PE: A thermoplastic that is highly resistant to a broad	180°F	-35°F		
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	range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	82°C	-37°C		
halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.			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,	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.				
ketones, esters and nitro hydrocarbons and chlorinated aromatic 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, water and hydraulic fluid resistance. Should not be used with	190°F 88°C	-10°F -23°C	Maximum life should not be expected at the extreme limits of the tempe Metals:	erature range	S.		
highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons.			Alloy C: Equal to ASTM494 CW-12M-1 specification for nickel and	d nickel alloy	Ι.		
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.

1: PUMP SPECS

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.



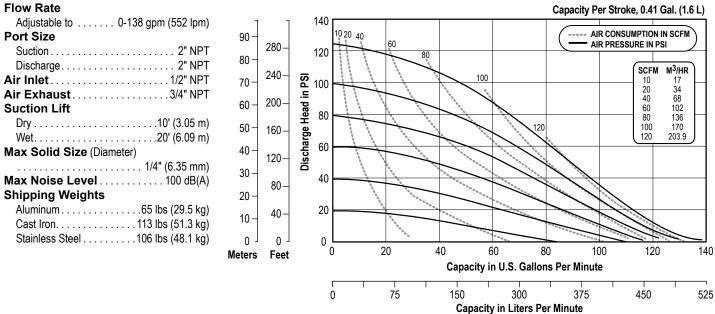
Phone: (419) 526-7296 info@pumperparts.com www.pumperparts.com

Pumper Parts and its products are not affilialed with any of the original equipment manufacturers referenced herein. All original equipment manufacturers' names, colors, pictures, descriptions and part numbers are used for identification purposes only. Pumper Parts[®] is a registered trade name of IDEX Corporation. All other trademarks, registered trademarks and product names are the property of their respective owners. Yamada[®] is a registered trademark of Yamada Corporation. ARO[®] is a registered trade name of Ingersoll-Rand Company. Wilden[®] is a registered trade name of Wilden Pump and Engineering Company, a Dover Resources Company.



Performance

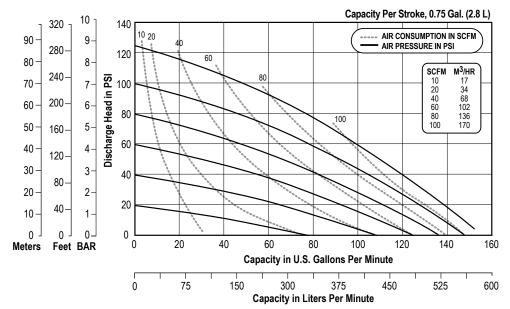
V2 - 2" Clamped Pump – Metallic Center PTFE FITTED



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%.

V2 - 2" Clamped Pump – Metallic Center RUBBER FITTED

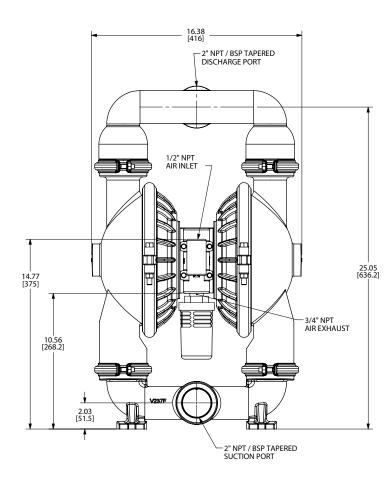
Flow Rate Adjustable to 0-152 gpm (575 lpm) Port Size
Suction
Discharge 2" NPT
Air Inlet
Air Exhaust
Suction Lift
Dry
Wet
Max Solid Size (Diameter)
Max Noise Level
Shipping Weights
Aluminum .65 lbs (29.5 kg) Cast Iron .113 lbs (51.3 kg) Stainless Steel .106 lbs (48.1 kg)

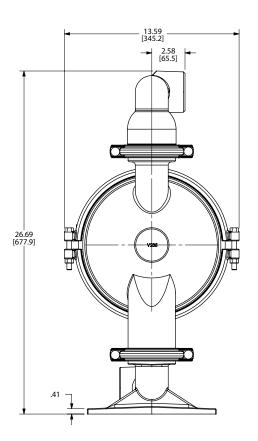


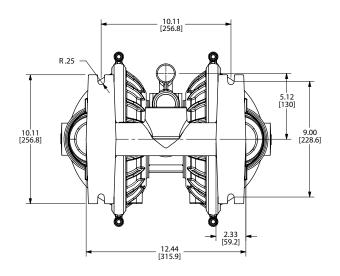
NOTE: Performance based on the following: elastomeric fitted pump, flooded suction, water at ambient conditions. The use of other materials and varying hydraulic conditions may result in deviations in excess of 5%.



V2 Aluminum 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.







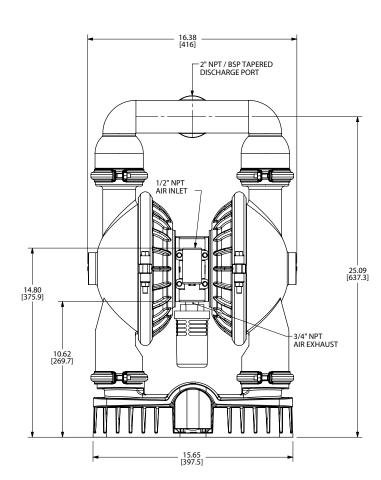
BOTTOM VIEW

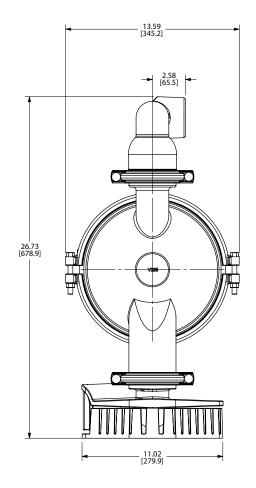


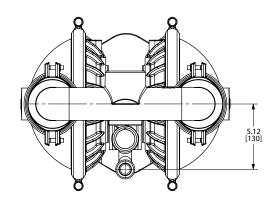
V2 Screen Mounted

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.



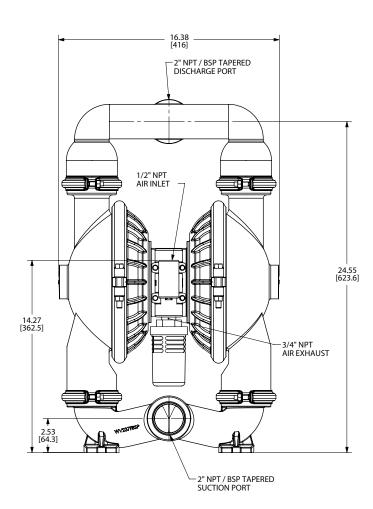


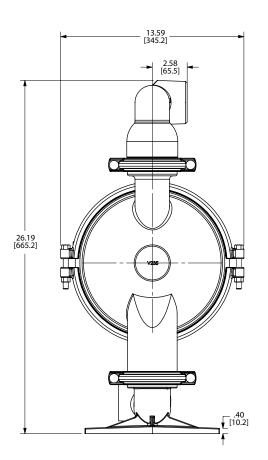


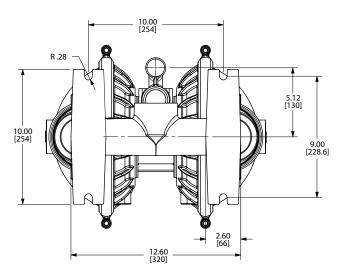
TOP VIEW



V2 Cast Iron 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.





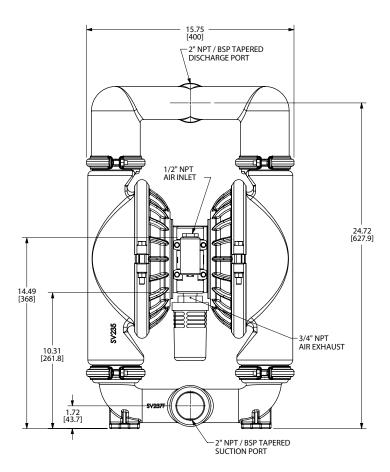


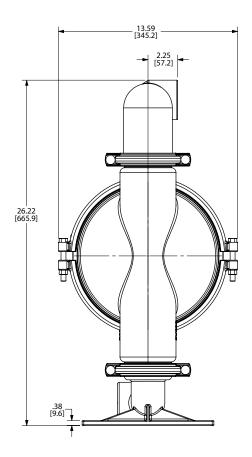
BOTTOM VIEW

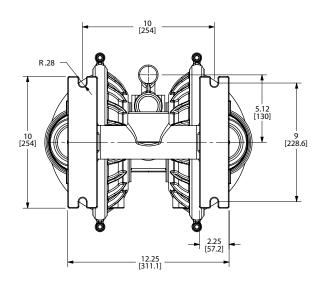


V2 Stainless Clamped Dimensions in inches (mm dimensions in brackets)

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



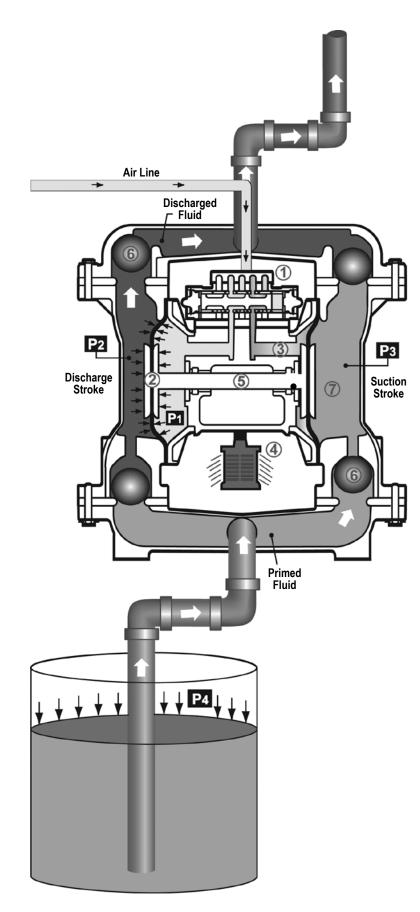




BOTTOM VIEW



Principle of Pump Operation



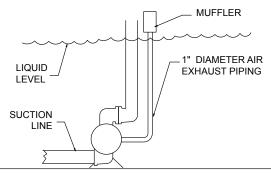
VERSA-MATIC[®] v2mdlAsm-rev0314 Air-Operated Double Diaphragm (AODD) pumps are powered by compressed air or nitrogen.

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 \bigcirc .

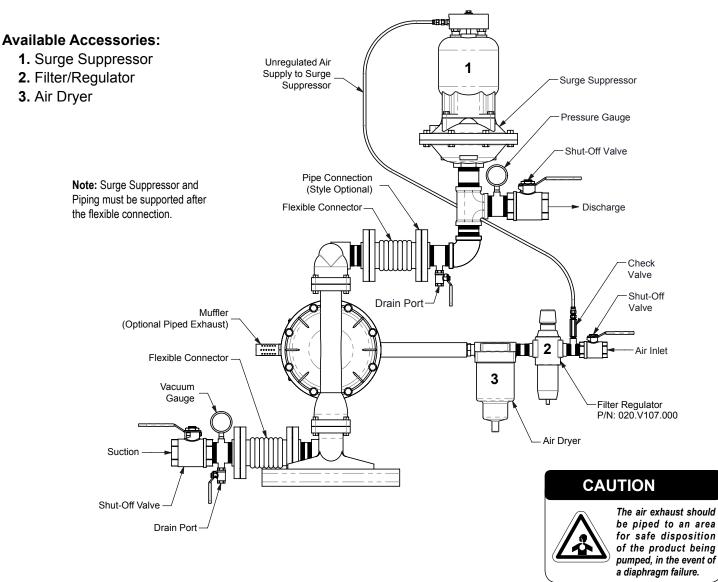
Suction (side) stroking also initiates the reciprocating (shifting, stroking or cycling) action of the pump. The suction diaphragm's movement is mechanically pulled through its stroke. The diaphragm's inner plate makes contact with an actuator plunger aligned to shift the pilot signaling valve. Once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



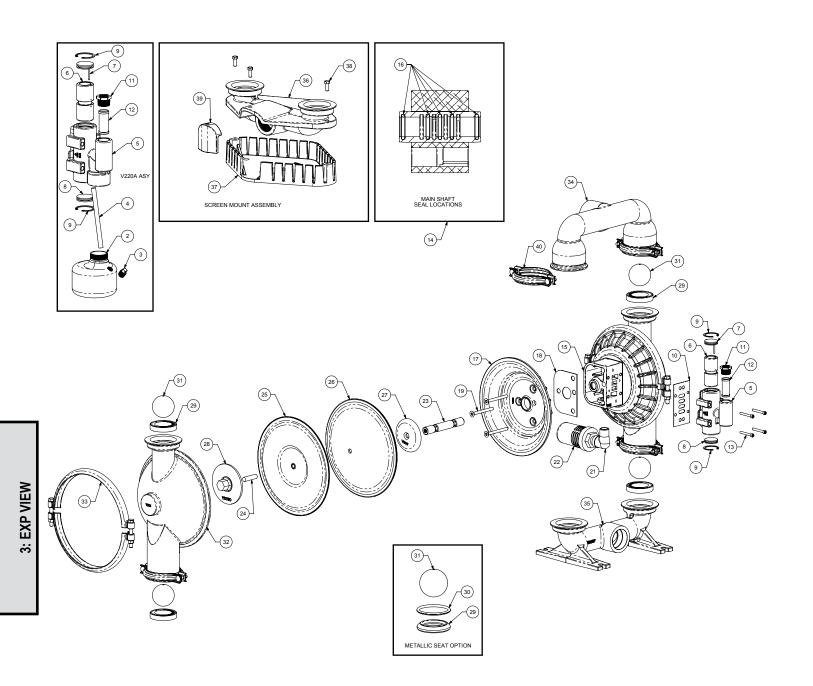
Troubleshooting Guide

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
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.
	Charle value shatevated	Disassemble the wet end of the pump and manually dislodge obstruction in the check valve pocket.
	Check valve obstructed.	Disassemble the wet end of the pump and manually disidage obstruction in the check value 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 Drawing - PTFE





Composite Repair Parts List - PTFE

			Air Valve Assembly					
Item #	Qty.	Description	Part Number					
4	۵.,	·	Without Oil Bottle With Oil Bottle					
1	-	Valve Body ASY (includes items 5-12)	V20ALF V220A					
2	1	Oil Bottle	N/A V220D					
3	1	Oil Bottle Pipe Plug	N/A V220DP					
4	1	Lubricator Rod	N/A V220C					
5	1	Valve Body	20ALF 220A V220PST					
6	1	Valve Spool						
	1	End Cap with Guide	PV220R					
8	2	End Cap without Guide Snap Ring	PV220S					
	<u> </u>	Air Valve Gasket	V220T					
10	1	Reducer Bushing	V220B					
12	1	Air Valve Screen	V220AP V220E					
12	4	Air Valve Screen Air Valve Mounting Bolt			20E 20AS			
13	4		enter Section Assemb		2043			
Item #	Qty.	Description			lumber			
14	-	Center Block ASY (Includes items 15-16)			20H			
15	1	Center Block		V22	20H-F			
16	5	Main Shaft O-Ring			220J			
17	2	Air Chamber			22B			
18	2	Center Block Gasket			20P			
19	3	Bolt			22C			
20	3	Cone Nut (not pictured)		V2	22D			
21	1	Muffler Elbow		PV2	220G			
22	1	Muffler			M-6			
			agm Assembly / Elast	tomers				
Item #	Qty.	Description			lumber			
23	1	Main Shaft			221AT			
24	2	Main Shaft Stud			21F			
25	2	Diaphragm			24TF			
26	2	Back-Up Diaphragm (See Note 4 Below)			V224TFB-1			
27	2	Inner Diaphragm Plate			21TI			
28	2	Outer Diaphragm Plate (See Note 1 Below)			1TO, HV221TO			
29	4	Valve Seat (See Below Material Chart)			40xx			
30	4	Valve Seat O-Ring (See Below Material Chart)			See Note 3)			
31	4	Valve Ball (See Below Material Chart)	Wet End Assembly	V24	41xx			
			wet End Assembly	Part N	lumber			
Item #	Qty.	Description	Aluminum	Cast Iron	Stainless Steel	Hastelloy		
32	1	Water Chamber	V235	WV235	SV235	HV235		
33	2	Large Clamp Assembly		230	SV			
	1	Discharge Manifold	V236	WV236	SV236	HV236		
34	1	Discharge Manifold (BSP Option)	V236BSP	WV236BSP	SV236BSP	HV236BSP		
25	1	Suction Manifold (Footed Option)	V237F	WV237F	SV237F	HV237F		
35	1	Suction Manifold (BSP Footed Option)	V237FBSP	WV237FBSP	SV237FBSP	HV237FBSP		
36	1	Suction Manifold (Screen Mount Option)	V237	N/A	N/A	N/A		
37	1	Screen (Screen Mount Only)	V238	N/A	N/A	N/A		
38	3	Bolt (Screen Mount Only)	V238A	N/A	N/A	N/A		
39	1	Hook Up Cover (Screen Mount Only)	V242	N/A	N/A	N/A		
40	4	Small Clamp Assembly		239	SV	239		
		Elasto	mer Material Specific					
	erial	"Ball P/N"			t P/N			
	FE	V241TF			40TF			
Aluminum		N/A			Note 2 Below)			
	Carbon Steel N/A			V240CS (See Note 2 Below)				
Carbo	n Steel	N/A						
Carbo Stainles		N/A V241SS N/A		SV240 (See	Note 2 Below) Note 2 Below)			

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)

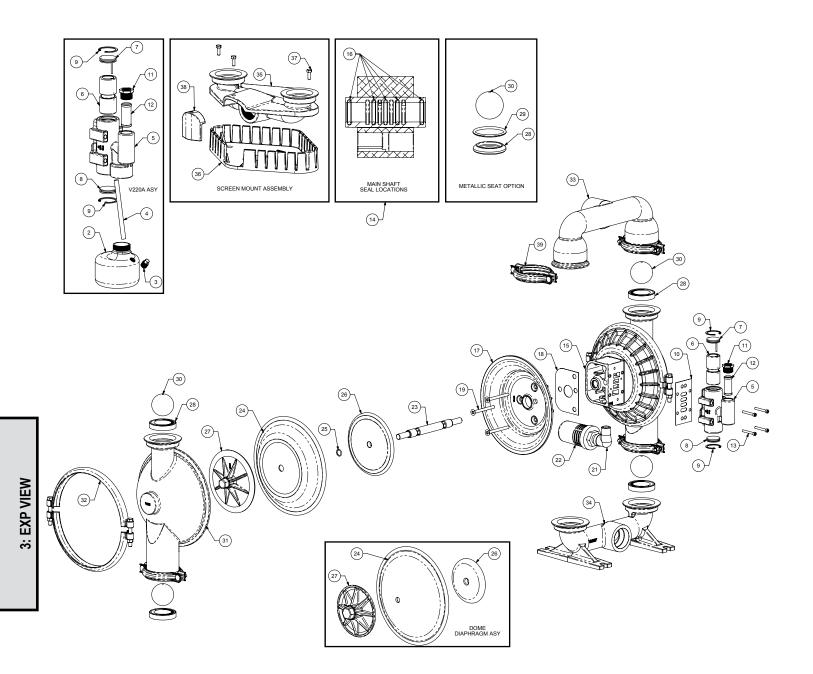
3.) These (4) o-rings are only used with metallic fitted seats.

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

5.) V=Aluminum, SV=Stainless Steel, WV=Cast Iron, H =Hastelloy



Composite Repair Parts Drawing - Rubber





Composite Repair Parts List - Rubber

		Ai	r Valve Assembly					
Item #	Qty.	Description	Without	Part Nu		Nith Oil Bottle		
1		Valve Body ASY (includes items 5-12)						
2	- 1	Oil Bottle	V20ALF V220A N/A V220D					
3	1	Oil Bottle Pipe Plug	N/A N/A					
4	1		N/A N/A		V220DP			
· ·	1	Lubricator Rod	20ALF		V220C			
5	1	Valve Body	204	\LF	2204	4		
6	1	Valve Spool		V220				
7	1	End Cap with Guide		PV22				
8	1	End Cap without Guide		PV22				
9	2	Snap Ring		V22				
10	1	Air Valve Gasket		V22				
11	1	Reducer Bushing		V220				
12	1	Air Valve Screen		V22				
13	4	Air Valve Mounting Bolt		V220	AS			
			er Section Assembly					
Item #	Qty.	Description		Part Nu				
14	-	Center Block ASY (Includes items 15-16)	V220H					
15	1	Center Block		V220				
16	5	Main Shaft O-Ring		V22				
17	2	Air Chamber		V22				
18	2	Center Block Gasket		V22				
19	3	Bolt		V22				
20	3	Cone Nut (not pictured)		V22				
21	1	Muffler Elbow		PV22	20G			
22	1	Muffler		VTM	1-6			
			n Assembly / Elastome	ers				
Item #	Qty.	Description		Part Nu				
ntem #	Qiy.		Versa-R		Versa-D	ome		
23	1	Main Shaft		V22	1A			
24	2	Diaphragm (See Below Material Chart)	V22	4xx	V225>	κx		
25	2	O-ring	V22	21D	N/A			
26	2	Inner Diaphragm Plate	V22		V226	В		
27	2	Outer Diaphragm Plate (See Note 1 Below)	VB221, WVB221,		VB226,SVB22			
28	4	Valve Seat (See Below Material Chart)	, <u></u> ,	V240				
29	4	Valve Seat O-Ring (See Below Material Chart)		See No				
30	4	Valve Ball (See Below Material Chart)		V241				
	-	W	et End Assembly					
14 #	04.		,	Part Nu	mber			
Item #	Qty.	Description	Aluminum	Cast Iron	Stainless Steel	Hastelloy		
31	4		V235	WV235	SV235	HV235		
	1	Water Chamber	VZ35	111200		117233		
32	2	Water Chamber Large Clamp Assembly	V235 V2	30	SV23	0		
32	1 2 1		V236			0 HV236		
	1 2 1 1	Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option)	V2	30	SV23	0		
32 33	1 2 1 1 1	Large Clamp Assembly Discharge Manifold	V236	30 WV236 WV236BSP WV237F	SV23 SV236	0 HV236		
32 33 34	1 2 1 1 1 1 1	Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option)	V236 V236 V236BSP	30 WV236 WV236BSP	SV23 SV236 SV236BSP	0 HV236 HV236BSP HV237F		
32 33 34 35	1 2 1 1 1 1 1 1	Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option)	V236 V236BSP V237F	30 WV236 WV236BSP WV237F WV237FBSP N/A	SV23 SV236 SV236BSP SV237F	0 HV236 HV236BSP HV237F		
32 33 34 35	1 2 1 1 1 1 1 1 1 1	Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option)	V2 V236 V236BSP V237F V237FBSP V237	30 WV236 WV236BSP WV237F WV237FBSP	SV236 SV236BSP SV236BSP SV237F SV237FBSP	0 HV236 HV236BSP HV237F HV237FBSP		
32 33 34 35 36	1 1 1 1 1 1	Large 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 Only)	V236 V236BSP V237F V237FBSP V237 V237 V238	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A	0 HV236 HV236BSP HV237F HV237FBSP N/A N/A		
32 33 34 35 36 37	1 2 1 1 1 1 1 1 3 1	Large 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 Only) Bolt (Screen Mount Only)	V236 V236BSP V237F V237FBSP V237 V237 V238 V238A	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A N/A	0 HV236BSP HV237F HV237FBSF N/A N/A N/A		
32 33 34 35 36 37 38	1 1 1 1 1 3 1	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only)	V236 V236BSP V237F V237FBSP V237 V237 V238 V238A V238A V242	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A N/A N/A	0 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A		
32 33 34 35 36 37	1 1 1 1 1 1 3	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly	V236 V236BSP V237F V237FBSP V237 V237 V238 V238A V238A V238A V242 V242	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A N/A	0 HV236BSP HV237F HV237FBSP N/A N/A N/A N/A		
32 33 34 35 36 37 38 39	1 1 1 1 1 3 1 4	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome	V2 V236 V236BSP V237F V237FBSP V237 V238 V238 V238A V242 V242 V242 V27 r Material Specificatio	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39 ns	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A N/A N/A SV23	0 HV236 HV236BSP HV237F HV237FBSF N/A N/A N/A N/A 9		
32 33 34 35 36 37 38	1 1 1 1 1 3 1 4	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly	V236 V236BSP V237F V237FBSP V237 V238 V238A V238A V242 V242 V2 r Material Specificatio Versa-Dome	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A N/A N/A	0 HV236 HV236BSP HV237F HV237FBSF N/A N/A N/A N/A 9		
32 33 34 35 36 37 38 39	1 1 1 1 3 1 4 erial	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N	V236 V236BSP V237F V237FBSP V237 V238 V238A V242 V242 V242 V2 r Material Specificatio Versa-Dome Diaphragm P/N V225N	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39 ns "Ball P/N" V241N	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A SV23 Seat P/N V240N	0 HV236 HV236BSP HV237F HV237FBSF N/A N/A N/A N/A 9		
32 33 34 35 36 37 38 39 Mate Neop	1 1 1 1 1 3 1 4 erial	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N	V236 V236BSP V237F V237FBSP V237 V238 V238 V238A V242 V242 V242 V242 V242 V242 V242 V24	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39 ns "Ball P/N" V241N	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A SV23	0 HV236BSP HV236BSP HV237FBSF N/A N/A N/A N/A 9 Seat O-Ring		
32 33 34 35 36 37 38 39 Mate	1 1 1 1 1 3 1 4 erial vrene Nitrile	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N	V236 V236BSP V237F V237FBSP V237 V238 V238A V242 V242 V242 V2 r Material Specificatio Versa-Dome Diaphragm P/N V225N	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A 39 ns "Ball P/N"	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A SV23 Seat P/N V240N	0 HV236 HV236BSP HV237FB N/A N/A N/A 9 Seat O-Ring N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna	1 1 1 1 1 3 1 4 erial orene Nitrile on	Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224BN	V236 V236BSP V237F V237FBSP V237 V238 V238A V242 V242 V242 V25 Material Specificatio Versa-Dome Diaphragm P/N V225N V225BN	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39 ns "Ball P/N" V241N V241BN	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V/A V/A	0 HV236BSP HV236BSP HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vit Nor	1 1 1 1 3 1 4 erial Nitrile on rdel	Large Clamp Assembly Discharge Manifold Discharge Manifold (BSP Option) Suction Manifold (Footed Option) Suction Manifold (BSP Footed Option) Suction Manifold (Screen Mount Option) Suction Manifold (Screen Mount Option) Screen (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224VT	V236 V236BSP V237F V237FBSP V237 V238 V238A V242 V242 V242 V25 Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225VT	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A 39 15 ************************************	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V23 Seat P/N V240N V240N V240N V240N V240N V240N V240N	0 HV236BSP HV236BSP HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vit Nor PT	1 1 1 1 1 1 3 1 4 erial orene Nitrile on rdel FE	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224N V224N V224N V224ND N/A	V236 V236BSP V237F V237FBSP V237 V238 V238 V238A V242 V242 V25 r Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225ND V225ND N/A	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39 ************************************	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V240N V240NT V240ND V240TF	0 HV236 HV236BSP HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A N/A N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vit Nor PT Santo	1 1 1 1 1 1 3 1 4 erial orene Nitrile on rdel FE prene	Large 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 Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224N V224N V224N V224ND N/A V224TPEXL	V236 V236BSP V237F V237FBSP V237 V238 V238A V242 V22 r Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225N V225ND N/A V225TPEXL	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A N/A 39 ************************************	SV236 SV236BSP SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V240N V240N V240N V240N V240T V240N V240T	0 HV236 HV236BSP HV237FSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A N/A N/A N/A N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vitt Nor PT Santo Hyt	1 1 1 1 1 3 1 4 erial orene Nitrile on rdel FE prene trel	Large 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 Only) Bolt (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224N V224ND V224ND N/A V224TPEXL V224TPESL V224TPEFG	V236 V236BSP V237F V237F V237F V237 V238 V238 V238A V242 V2 r Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225ND V225ND N/A V225TPEXL V225TPEFG	30 WV236BSP WV237FS WV237FSP N/A N/A N/A N/A 39 15 ************************************	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V240N V240N V240N V240N V240TF V240TF V240TF V240TFFG	0 HV236BSP HV237FS HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vit Nor PT Santo Hyt Geo	1 1 1 1 1 3 1 4 erial on del FE prene trel olast	Large 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 Only) Bolt (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224N V224ND V224ND N/A V224TPEXL V224TPESG V224G	V236 V236BSP V237F V237F V237F V237 V238 V238A V242 V2 r Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225N V225ND V225ND V225TPEXL V225TPEXL V225TPEFG N/A	30 WV236 WV237F WV237FBSP N/A N/A N/A N/A 39 18 "Ball P/N" V241N V241N V241N V241VT V241ND V241TF V241TF V241TF V241TF V241TF V241TFESL V241G	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V240N V240N V240N V240TF V240TF V240TF V240TF V240TFF V240TFEG V240G	0 HV236BSP HV237FS HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vit Nor PT Santo Hyj Geo Alum	1 1 1 1 1 3 1 4 erial orene Mitrile on del FE prene trel prene trel olast inum	Large 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 Only) Bolt (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224N V224N V224ND V224VT V224VT V224TPEXL V224TPESC V224TPEFG V224G N/A	V236 V236BSP V237F V237F V237F V237 V238 V238A V242 V2 r Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225N V225ND N/A V225TPEXL V225TPEXL V225TPEFG N/A N/A	30 WV236 WV236BSP WV237F WV237FBSP N/A N/A N/A N/A 39 ns "Ball P/N" V241N V241N V241N V241N V241VT V241ND V241TF V241TPEFG V241G N/A	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V240N V240N V240T V240TF V240TF V240TF V240TFEG V240A V240A	0 HV236 HV236BSP HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		
32 33 34 35 36 37 38 39 Mate Neop Buna Vit Nor PT Santo Hyt Geo	1 1 1 1 1 3 4 erial orene Nitrile on rene Prene FE prene trel last inum o Steel	Large 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 Only) Bolt (Screen Mount Only) Bolt (Screen Mount Only) Hook Up Cover (Screen Mount Only) Small Clamp Assembly Elastome Versa-Rugged Diaphragm P/N V224N V224N V224ND V224ND N/A V224TPEXL V224TPESG V224G	V236 V236BSP V237F V237F V237F V237 V238 V238A V242 V2 r Material Specificatio Versa-Dome Diaphragm P/N V225N V225N V225N V225N V225ND V225ND V225TPEXL V225TPEXL V225TPEFG N/A	30 WV236 WV237F WV237FBSP N/A N/A N/A N/A 39 18 "Ball P/N" V241N V241N V241N V241VT V241ND V241TF V241TF V241TF V241TF V241TF V241TFESL V241G	SV236 SV236BSP SV237F SV237FBSP N/A N/A N/A N/A V240N V240N V240N V240TF V240TF V240TF V240TF V240TFF V240TFEG V240G	0 HV236BSP HV237FS HV237FBSF N/A N/A N/A 9 Seat O-Ring N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A		

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)

2.) This metallic seat material is to match the water chamber material. In addition to this seat, (4) V240T o-rings are needed.

3.) V=Aluminum, SV=Stainless Steel, WV=Cast Iron, H =Hastelloy



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: DATA:





15 • Model V2 Metallic Bolted

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DATO:

PÄIVÄYS:

on Machinery, according to Annex VIII

2006/42/EC

EN809:1998+ A1:2009