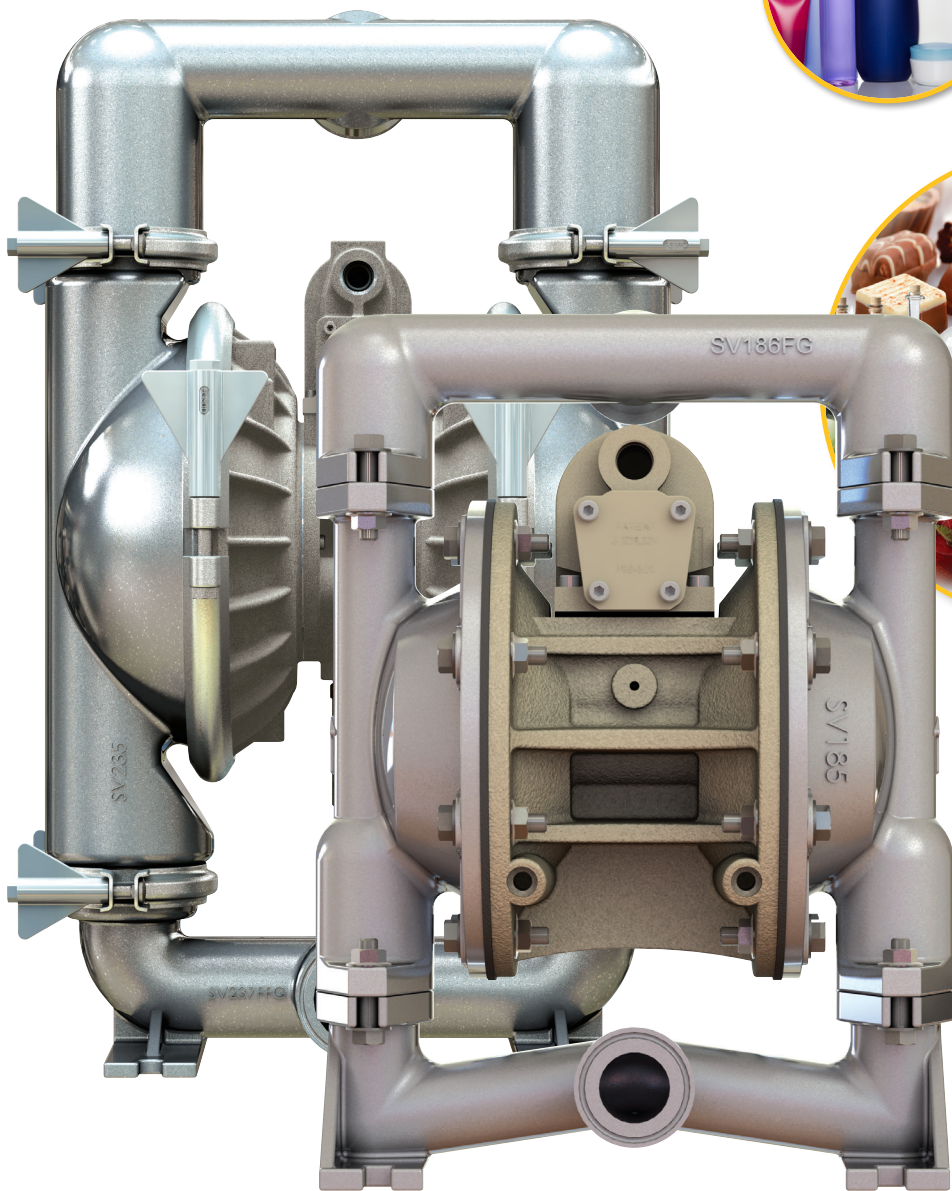


# FDA COMPLIANT DIAPHRAGM PUMP SOLUTIONS

AIR OPERATED DOUBLE DIAPHRAGM (AODD) PUMP



LOW SHEAR

ELECTROPOLISHED

RUN-DRY CAPABLE

PORTABLE



**VERSAMATIC**<sup>®</sup>  
PUMPING MADE EASY



# FDA COMPLIANT FOOD PROCESSING PUMPS

## Features & Benefits



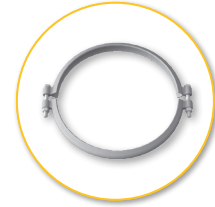
### Smooth Clean Casting Finish

Electropolished to a surface finish of Ra 125  $\mu$ -in (3.175  $\mu$ -m) internally & externally



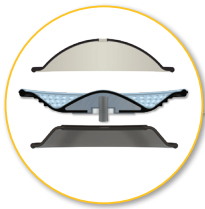
### Exclusive Elima-Matic Air Valve System

Delivers excellent On / Off / On reliability, longevity, and efficiency



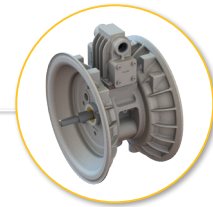
### Clamped Constructions

Quick tear down and reassembly



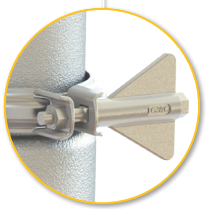
### Extended-life Diaphragms

Integrated plate PTFE & Dome



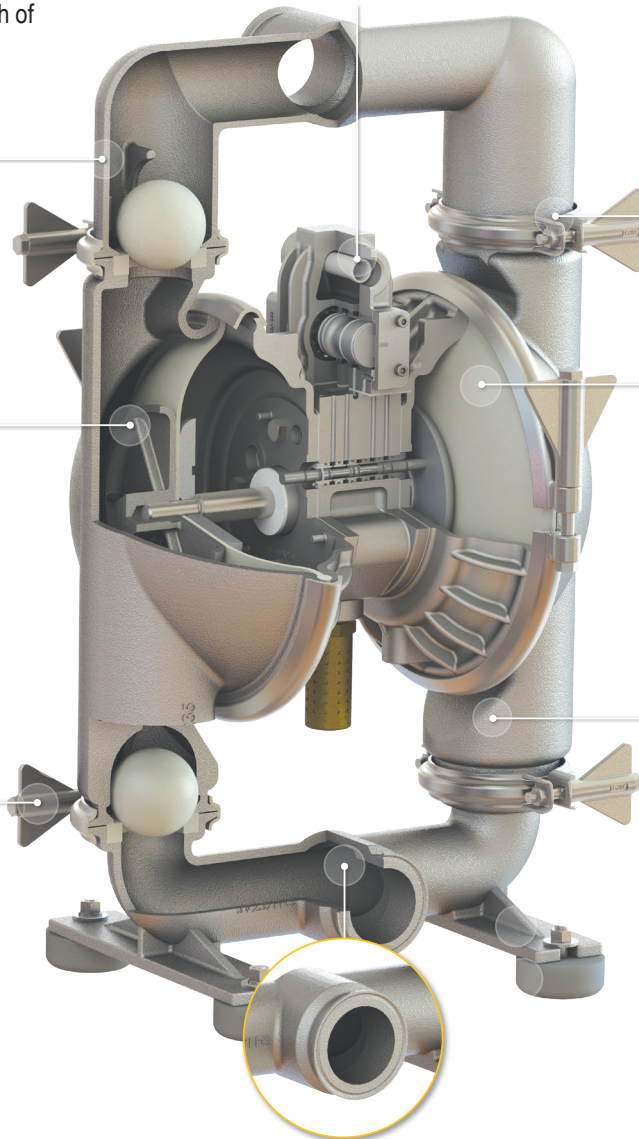
### Chemical Resistance Air Section Materials

Protects against chemical attack during operation and / or the sanitation process



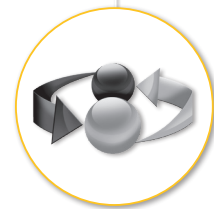
### Hygienic Wing Nuts

For easy assembly



### Hygienic Tri-Clamp Fluid Connections

For quick disconnect



### Dimensionally Interchangeable Pumps, Parts, Air Sections

For seamless upgrades



# FDA COMPLIANT FOOD PROCESSING PUMPS

## Markets & Applications

**Applications:** Product Transfer / Tank Over, Filling Lines, Blending and Mixing, and Ingredient Injection



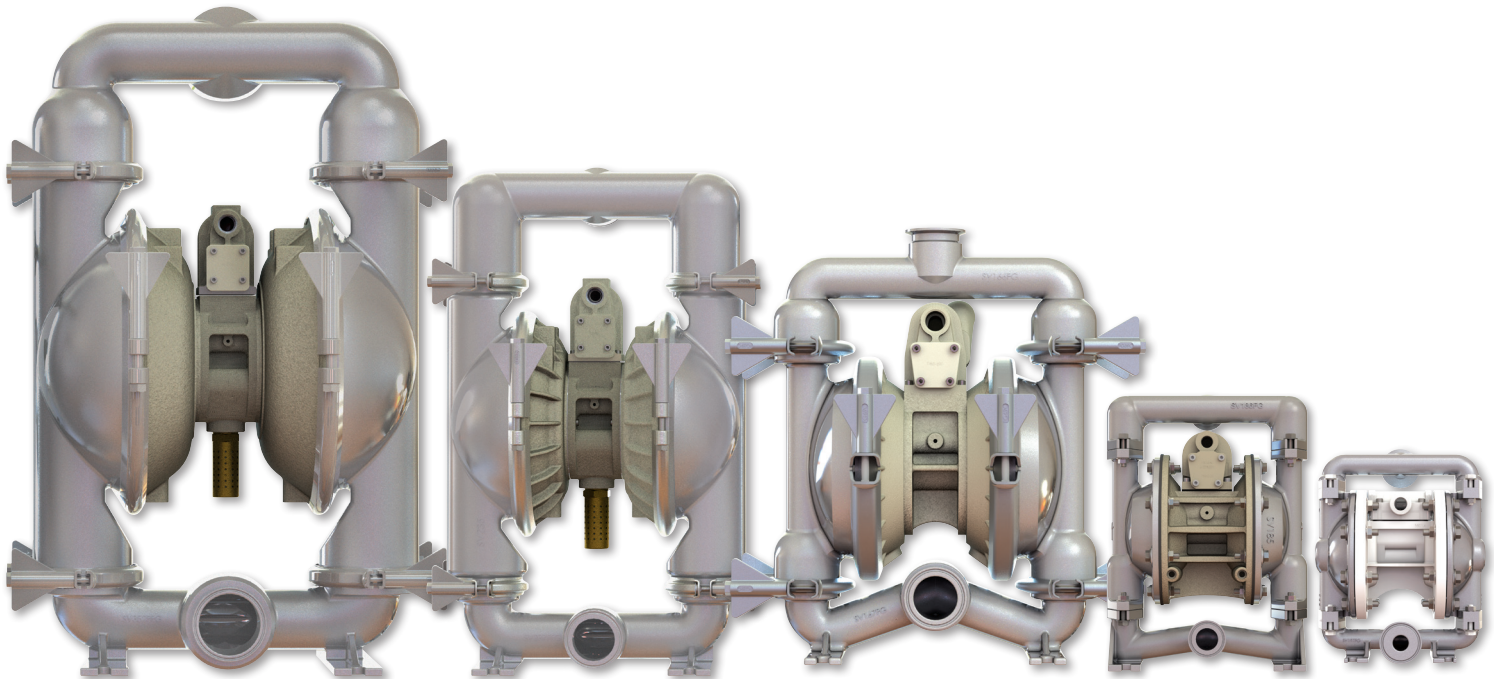
### FOOD & BEVERAGE

- Salsa
- Chili
- Soy Sauce
- Beer
- Wine & Spirits
- Juice Concentrates
- Corn Oils / Syrups
- Chocolate
- Syrup
- Cream Soda / Root Beer
- Confectionary Candies
- Poultry (Saline Injection)
- Pickle Relish
- Flavorings
- Pie Filling
- Spaghetti Sauces
- Salad Dressing
- Barbecue Sauces
- Mayonnaise
- Condensed flavorings
- Soup
- Bakeries



### PERSONAL CARE

- Hair Gel
- Shampoo
- Soap
- Creams
- Lubricants
- Lotions
- Petroleum Jelly
- Hair Dye
- Laundry Detergents
- Hand Sanitizer
- Fragrances
- Botanical Extraction



E3•3"  
76mm

E2•2"  
51mm

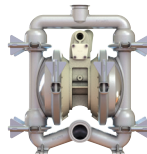
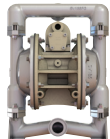
E4•1½"  
38mm

E1•1"  
25mm

E5•½"  
13mm

# FDA COMPLIANT

## Technical Specifications



Port Size	1/2" (12.7 mm)	1" (25.4 mm)	1.5" (38 mm)	2" (50.8 mm)	3" (76.2 mm)
Pump Model	E5	E1	E4	E2	E3
Wetted Material Options	316 SS				
Air Side material	PP	PP / AL-NP	AL-NP	SS / AL-NP	SS / AL-NP
Max Flow Rate Per Minute	12 gpm (45.4 lpm)	46 gpm (174.1 lpm)	70 gpm (265 lpm)	185 gpm (700 lpm)	234 gpm (886 lpm)
Porting Configurations	Suction: Center Horz Discharge: Center Horz	Suction: Center Horz Discharge: Center Horz	Suction: Center Horz Discharge: Center Horz	Suction: Center Horz Discharge: Center Horz	Suction: Center Horz Discharge: Center Horz
Connection Type	1 1/2" Tri-Clamp	1 1/2" Tri-Clamp	2" Tri-Clamp	2 1/2" Tri-Clamp	3" Tri-Clamp
Maximum Viscosity, cSt / SSU	cSt - 2,000 SSU -9,400	cSt - 2,000 SSU -9,401	cSt - 90,000 SSU - 415,500	cSt - 90,000 SSU - 415,501	cSt - 90,000 SSU - 415,502
Maximum Dry Suction Lift	13' (3.9 m)	16' (4.9 m)	15' (4.6 m)	17' (5.1 m)	20' (6.1 m)
Air Inlet: Port Air Exhaust Port	Inlet: 3/8" NPT Exhaust: 3/8" NPT	Inlet: 3/8" NPT Exhaust: 1/2" NPT	Inlet: 1/2" NPT Exhaust: 3/4" NPT	Inlet: 1/2" NPT (3/4" NPT, SS) Exhaust: 1" NPT	Inlet: 1/2" NPT (3/4" NPT, SS) Exhaust: 1" NPT
Max Solids Handling	0.063" (1.6 mm)	0.125" (3.2mm)	0.18" (4.76 mm)	0.25" (6.3 mm)	0.375" (9.5 m)
Max. Displacement per stroke	0.022 gal (0.08 L)	0.09 gal (0.34 L)	0.25 gal (0.95 L)	0.60 gal (2.27 L)	1.36 gal (5.1 L)
Maximum Air Inlet Pressure	100 psi (6.8 bar)	100 psi (6.8 bar)	125 psi (8.6 bar)	125 psi (8.6 bar)	125 psi (8.6 bar)
Cleaning / Sanitizing Method	Clean Out of Place (COP)				
Wetted Casting Surface Finish, Microinches (Micrometers)	Ra 125 μ-in (3.175 μ-m).				
Diaphragm Material Options	Hytel, FDA Satoprene, 2-Piece PTFE, IP Bonded PTFE				
Shipping weight	17 lbs (7.7 kg)	36 lbs (16.3 kg)	57 lbs (25.9 kg)	106 lbs (48.1 kg)	189-239 lbs (86-108.7 kg)
Height	10.41" (264.41 mm)	14.44" (366.8 mm)	17.33" (440.2 mm)	26.22" (666 mm)	32.01" (813 mm)
Width	8.20" (208.3 mm)	10.72" (272.4 mm)	16.66" (423.2 mm)	17.18" (436.3 mm)	21.54" (547 mm)
Depth	8.19" (208.1 mm)	8.13" (206.4 mm)	13.66" (345.0 mm)	13.62" (346 mm)	16.96" (430.7 mm)
Base to Suction	0.98" (25 mm)	1.56" (39.6 mm)	2.56" (65.0 mm)	1.72" (43.6 mm)	2.31" (58.7 mm)
Base to Discharge	9.42" (239.3 mm)	13.63" (346.2 mm)	17.33" (440.2 mm)	24.72" (627.9 mm)	29.76" (755.9 mm)

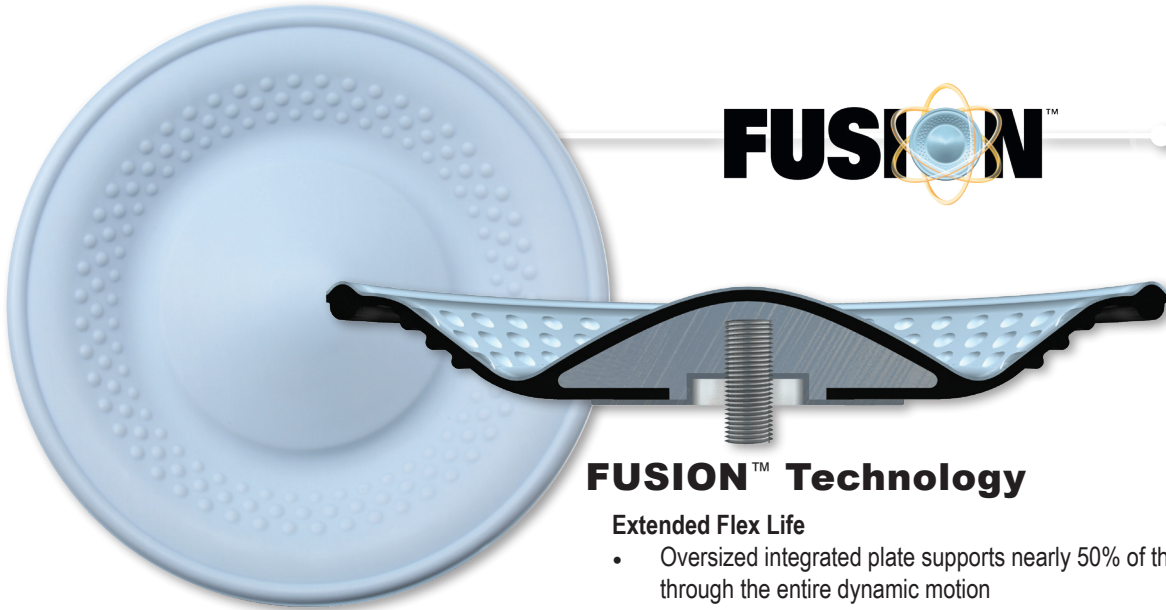
Specifications

SS-Stainless Steel, AL-NP-Nickle Plated Aluminum, PP-Polypropylene,  
See service manual for complete specifications-  
\*Standard Configuration

# FDA COMPLIANT FOOD PROCESSING PUMPS

## Features & Benefits

Versamatic is a leader in diaphragm and materials technologies. Since releasing the patented extended life Dome™ diaphragm and TPE-XL (Santoprene®), both AODD industry firsts, Versamatic has been known as an innovative solutions provider. This tradition continues with the release of the FUSION™ PTFE bonded product offering.



### FUSION™ Technology

#### Extended Flex Life

- Oversized integrated plate supports nearly 50% of the diaphragm through the entire dynamic motion
- No outer plate to wear diaphragm or to trap abrasive particles
- Deflection ridges prevent flex points and eliminate radial cracking
- Back up ribs support and guide the diaphragm with each flex

#### No Leak Paths

- No center hole or torque required, superior leak free operation & installation

#### Hygienic / Cleanability

- No outer plate to trap particles for easy cleaning and sanitation

#### Sizes Available:

- ½", 1", 1½", 2" and 3" diaphragms



### RUGGED™ Technology

#### Solids and Slurries Handling

- The oversized outer plates leave less diaphragm exposed to solids in fluid
- Preferred for high suction lift & positive suction conditions
- Support from large diaphragm plates increases flex life in many poor operating conditions

#### Interchangeable

- 1½", 2", and 3" diaphragms fit into many Wilden® pump units

#### Sizes Available:

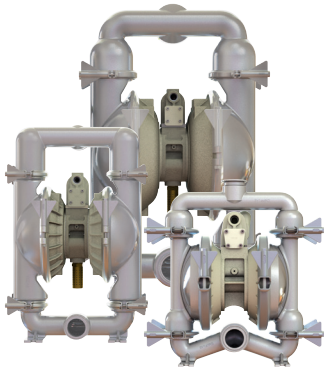
- ½", 1", 1½", 2" and 3" diaphragms

Please consult your distributor or factory experts for additional details.

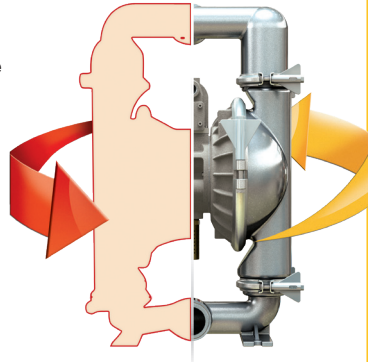
# COMPETITIVE INTERCHANGEABILITY

## Pumps, Parts & Upgrade Air Sections

### Displacing Wilden® Saniflo® Series



Dimensional Interchange  
Seamless installation into  
Wilden® installations



#### VALUE

- Same footprint and centerline porting dimensions as Wilden® 1 1/2", 2" and 3" FDA Series Sani-Flo™ Series pumps

#### IMPORTANCE

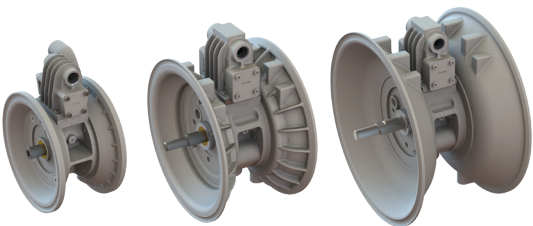
- Eliminates the cost of pump installation (repiping / foot pad)

#### BENEFIT

- Seamless, low cost transitions when converting Wilden's installed base over to value-added Versamatic pump units

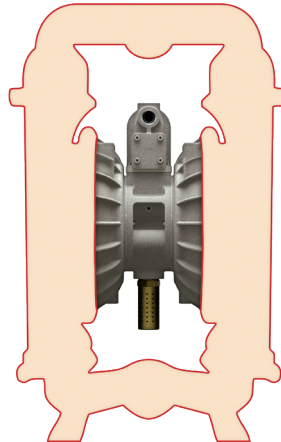
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### Air Section Upgrade Kits for Wilden® Pumps



Air Section  
(1 1/2", 2" and 3" Units)

Air Section  
Conversion Kits  
(Conversion Centers)



#### VALUE

- Complete Elima-Matic air section assembly
- Consistent air section design concept
- Low cost rebuild options (air / pilot valve)

#### IMPORTANCE

- Simple, low cost conversion or update option versus traditional pump rebuild or complete pump sale
- Consistent design compared to Wilden®
- Elima-Matic air valve system delivers overall low cost of ownership

#### BENEFIT

- Save time and labor compared to purchasing individual components
- Reduced parts inventory, product complexity and training required with consistent air system design

### Quality Replacement Parts that fit Wilden® Pumps



- Diaphragms
- Valve Balls
- Valve Seals
- Clamps
- Fluid Chambers
- Manifolds
- Plates
- Air Valves
- Seals
- Mufflers
- Shafts
- Bushings
- Center Blocks
- Pump Accessories
- FRL Units
- Pulsation Dampeners
- Liquid Level Controllers and other essential items

#### VALUE

- Supplying parts that fit Wilden® pumps since 1983
- Most parts ship in 72 hours or less

#### IMPORTANCE

- Experts in supplying OEM parts for Versamatic and aftermarket parts that fit Wilden®
- Great delivery, expert service, competitive pricing

#### BENEFIT

- Save time and money on AODD pump parts
- One stop shopping for pumps and parts
- Reduced parts inventory



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