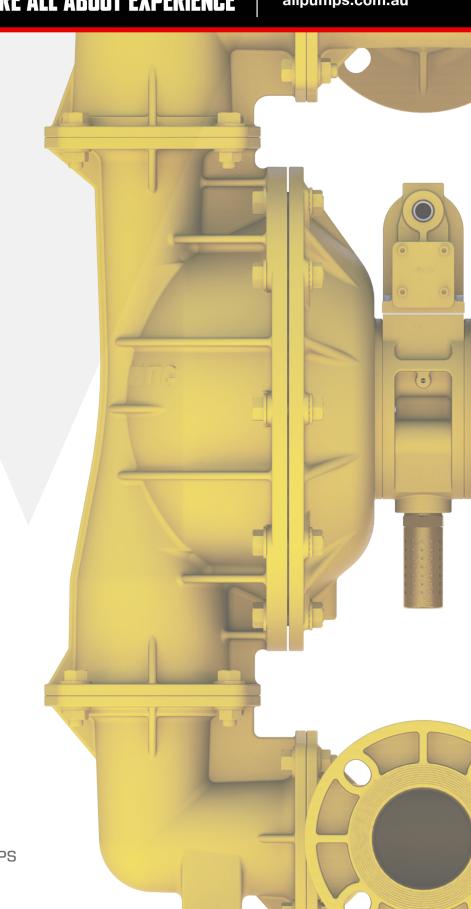


WE'RE ALL ABOUT EXPERIENCE

allpumps.com.au



AIR OPERATED DOUBLE DIAPHRAGM PUMPS

RELIABLE PUMPING MADE EASY

Proudly assembled in Mansfield, Ohio you count on the consistency, reliability and trouble-free operation of Versamatic's air-operated double-diaphragm (AODD) pumps to keep your process running.



RELIABLE PERFORMANCE

Versamatic pumps are designed to reduce downtime, which leads to more effective and efficient processes.



SIMPLE CONSTRUCTION

An AODD pump's simple design and easy-to-understand principles keep your processes working at top speed.



APPLICATION VERSATILITY

Your pump should be able to effectively handle a broad array of **fluid types**, from water to products that are viscous or abrasive.



GLOBAL DISTRIBUTION

Get expert solutions, convenience, local service and support no matter where you're located in the world.



COMPLETE PRODUCT OFFERING

Our diverse portfolio of AODD pumps gives you the versatility and flexibility you need to make pumping easy.



WORLD-CLASS MANUFACTURING & SUPPORT

When you partner with Versamatic you can expect short lead times and on-time delivery. We have the part you need - when you need it - in stock.

SUPPORT MADE EASY

Visit us online to quickly access useful resources.







LITERATURE



CHEM GUIDE







VIDEOS

ALL RESOURCES

WHY AODD PUMPS?

		*	\$		*		
PUMP TYPE:	AODD	Centrifugal	Lobe	Gear	Progressive (screw)	Peristaltic (hose)	Piston/ Plunger
TECHNOLOGY:	Non PD Reciprocating	Kinetic	PD Rotary	PD Rotary	PD Rotary	PD Rotary	PD Reciprocating
Variable Flow & Head Control: (inherently adjustable)		I	Ī	Ī	Ī	Ī	Ī
Deadheads Safely: (at zero energy consumption)		Ī	Ī	Ī	Ī	Ī	Ī
Dry-Running:		*	×	*	×	×	×
Dry-Priming: (lift installations)		*	×	×	×	×	Ī
No Installation Alignment Required:		*	×	×	×	×	×
No Electrical Installation Required:		*	×	×	×	×	×
Portability:		Ī	Ī	Ī	Ī	Ī	Ţ
Submersible:		Ī	×	×	×	×	×
Sealless: (no packing or mechanical seals)		Ī	Ī	Ī	Ī	Ţ	Ī
No Slip: (thin liquids)		Ī	Ī	Ī	Ī	Ī	Ī
Cavitation Tolerance: (low NPSHa)		×	Ī	Ī	Ī	Ī	Ī
Low Shear & Degradation:		×	Ī	Ī	Ī	Ī	Ī





X = Not Recommended

- Run-dry without damaging the pump or system
- Pump solid laden fluids without pump or product damage
- Self-priming, works in suction lift applications
- Deadheads safely, with no pump or product damage
- · Shear sensitive, does not shear or separate product being pumped
- No electricity required, and can be fully grounded
- Low initial purchase price compared to other technologies
- · Submersible, can be submerged completely without safety or performance issues
- Sealless design, no expensive mechanical seals or packing are required
- Variable flow and head pressures, without sophisticated controls

















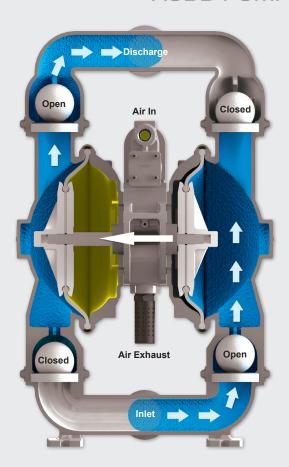
INSTALLATION VERSATILITY

HOW AODD PUMPS WORKS

All installations: Run-dry capable • No heat generation • No electricity required



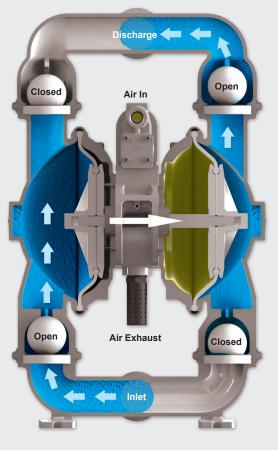
AODD PUMP OPERATION



1: SUCTION CYCLE

Compressed air fills left inner chamber, causing the opposing diaphragm to create suction, lifting the lower valve ball, pulling in fluid at inlet. Simultaneously the left chamber is in "Discharge" cycle.





2: DISCHARGE CYCLE

Compressed air fills right inner chamber, causing upper valve ball to open and discharge fluid. Simultaneously, the left chamber is in "Suction" cycle.



= Pumped Fluid

MARKETS WE SERVE

















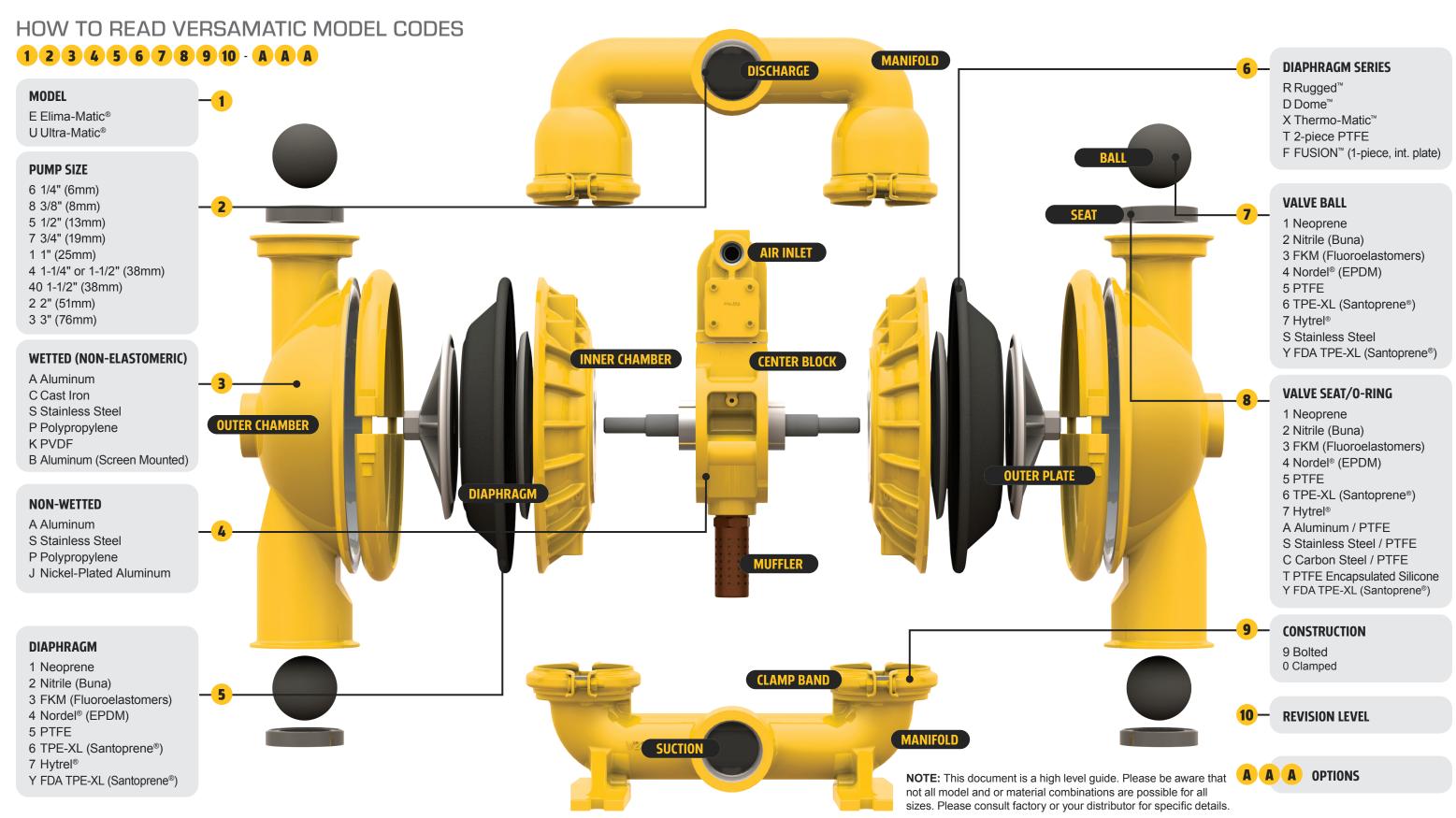








PUMP MODEL CODES





BOLTED METAL

	PORT SIZE	1/2" (12.7 MM)	3/4" (19 MM)	1" (25.4 MM)	1.5" (38 MM)	2" (50.8 MM)	2" (50.8 MM)	3" (76.2 MM)	3" (76.2 MM)
	Pump Model	E5	E7	E1	E40	E2	E2	E3	E3
	Wetted Material Option	AL/SS	AL	AL/SS	AL/SS	AL	SS	AL	SS
	Air Side material	AL / PP	AL / PP	AL / PP / AL-NP	AL / SS / AL-NP	AL	AL/SS	AL	AL/SS
	Max Flow Rate Per Minute	12 gpm (45.4 lpm)	12 gpm (45.4 lpm)	49 gpm (181.7 lpm)	123 gpm (465 lpm)	163 gpm (617 lpm)	160 gpm (606 lpm)	273 gpm (1033 lpm)	273 gpm (1033 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.	Suction: Center Horz Discharge: Center Horz or Vert	Suction: Center Horizontal* Discharge: Center Horizontal*	Suction: Center Horizontal Discharge: Center Horizontal
	Connection Type	1/2" NPT	3/4" NPT	1" NPT or BSP	1.5" NPT or BSP	2" NPT or BSP	2" ANSI / DIN 2" NPT / BSP"	3" ANIS / DIN 3" NPT / BSP	3" ANIS / DIN 3"" NPT / BSP
ONS	Maximum Dry Suction Lift	13' (3.9 m)	13' (3.9 m)	15' (4.6 m)	19' (5.8 m)	18' (5.5 m)	14' (4.3 m)	16' (4.9 m)	16' (4.9 m)
SPECIFICATIONS	Air Inlet: Port Air Exhaust: Port	Inlet: 3/8" NPT Exhaust: 3/8" NPT	Inlet: 3/8" NPT Exhaust: 3/8" NPT	Inlet: 3/8" NPT Exhaust: 1/2" NPT	Inlet: 1/2" NPT (3/4" NPT, SS) Exhaust: 1" NPT	Inlet:1/2" NPT Exhaust:1" NPT	Inlet: 1/2" NPT (3/4" NPT, SS) Exhaust: 1" NPT	Inlet: 1/2" NPT Exhaust: 1" NPT	Inlet: 1/2" NPT (3/4" NPT, SS) Exhaust: 1" NPT
SPECI	Max Solids Handling	0.063" (1.6 mm)	0.063" (1.6 mm)	0.125" (3.2mm)	0.25" (6.3 mm)	0.43" (11.1 mm)	0.25" (6.3 mm)	0.375" (9.5 mm)	0.500 (12.7 mm)
•	Max. Displacement per stroke	0.022 gal (0.08 L)	0.022 gal (0.08 L)	0.1 gal (0.38 L)	0.44 gal (1.67 L)	0.60 gal (2.27 L)	0.49 gal (1.85 L)	1.46 gal (5.5 L)	1.46 gal (5.5 L)
	Maximum Air Inlet Pressure	125 psi (8.6 bar)	125 psi (8.6 bar)	125 psi (8.6 bar)	125 psi (8.6 bar)	125 psi (8.6 bar)			
	Shipping weight	11-17 lbs (3.9-7.7 kg)	11-17 lbs (3.9-7.7 kg)	27-40 lbs (12.2-18.1 kg)	55-92 lbs (25-41.7 kg)	81 lbs (36.7 kg)	114 lbs (51.7 kg)	146 lbs (66.2 kg)	245 lbs (111.1 kg)
	Height	10.05" (255.3 mm)	10.05" (255.3 mm)	14.54" (369.3 mm)	22.2" (563.9 mm)	26.66" (677.1 mm)	27.77" (705.4 mm)	36.31" (922.3 mm)	36.26" (919.2 mm)
	Width	8.39" (213.1 mm)	8.39" (213.1 mm)	10.75" (273.5 mm)	18.55" (471.2 mm)	17.72" (450.1 mm)	17.72" (450.1 mm)	25.12" (638.1 mm)	22.06" (560.3 mm)
	Depth	6.25" (158.8 mm)	6.25" (158.8 mm)	9.33" (237 mm)	12.22" (310.4 mm)	13.13" (333.5 mm)	12.03" (305.6 mm)	16.11" (409.2 mm)	16.08" (408.4 mm)
	Base to Suction	0.95" (24.1 mm)	0.95" (24.1 mm)	1.56" (38.6 mm)	3.13" (79.5mm)	2.52" (64.0 mm)	3.39" (86.1 mm)	4.38" (111.3 mm)	4.44" (112.8 mm)
	Base to Discharge	9.35" (237.5 mm)	9.35" (237.5 mm)	13.73" (348.7 mm)	20.9" (530.9 mm)	24.88" (363.0 mm)	27.77" (705.4 mm)	32.38" (822.5 mm)	32.32" (820.9 mm)

AL-Aluminum, SS-Stainless Steel, AL-NP-Nickle Plated Aluminum **PP**-Polypropylene

See service manual for complete specifications *Standard Configuration

VERSAMATIC PUMPING MADE EASY



CLAMPED METAL

	PORT SIZE	1.5" (38 MM)	2" (50.8 MM)	3" (76.2 MM)
	Pump Model	E4	E2	E3
	Wetted Material Option	AL/CI/SS	AL/CI/SS	AL/CI/SS
	Air Side Material	AI / AL-NP	AI / SS / AL-NP	AI / SS / AL-NP
	Max Flow Rate Per Minute	71 gpm (268 lpm)	185 gpm (700 lpm)	234 gpm (886 lpm)
	Porting Configurations	Suction: Center Horz Discharge: Center Vert	Suction: Center Horz Discharge: Center Vert	Suction: Center Horz Discharge: Center Vert
	Connection Type	Suction: 1 1/2" NPT or BSP Discharge: 1 1/4" NPT or BSP	Suction: 2" NPT or BSP Discharge: 2" NPT or BSP	Suction: 3" NPT or BSP Discharge: 3" NPT or BSP
	Maximum Dry Suction Lift	19' (5.8 m)	17' (5.2 m)	20' (6.1 m)
IONS	Air Inlet: Port Air Exhaust: Port	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
FICAI	Max Solids Handling	0.188" (4.8 mm)	0.25" (6.4 mm)	.375" (9.5 mm)
SPECIFICATIONS	Max. Displacement Per Stroke	.25 gal (0.95 L)	0.60 gal (2.3 L)	1.36 gal (5.1 L)
	Maximum Air Inlet Pressure	125 psi (8.6 bar)	125 psi (8.6 bar)	125 psi (8.6 bar)
	Shipping Weight	55-95 lbs (25-43 kg)	65-144 lbs (29.5-65.3 kg)	108-233 lbs (49.0-105.7 kg)
	Height	AL: 17.11" (434.6 mm) CI: 16.88" (428.6 mm) SS: 16.7" (425.8 mm)	AL: 26.69" (678.0 mm) CI: 26.19" (665.2 mm) SS: 26.22" (666.0 mm)	AL: 32.09" (815.1 mm) CI: 32.78" (832.5 mm) SS: 32.01" (813.1 mm)
	Width	AL: 14.17" (360.0 mm) CI: 14.36" (364.7 mm) SS: 14.40" (365.7 mm)	AL: 16.38" (416.1 mm) CI: 16.38" (416.1 mm) SS: 15.87" (403.1 mm)	20.01" (508.2 mm)
	Depth	11.50" (292.1 mm)	13.59" (345.2 mm)	15.01" (381.1 mm)
	Base to Suction	AL: 2.55" (64.77 mm) CI: 2.63" (66.7 mm) SS: 2.55" (64.77 mm)	AL: 2.03" (51.6 mm) CI: 2.53" (64.3 mm) SS: 1.72" (43.7 mm)	AL: 2.25" (57.2 mm) CI: 2.49" (63.3 mm) SS: 2.31" (58.7 mm)
	Base to Discharge	AL: 17.11" (434.6 mm) CI: 16.88" (428.6 mm) SS: 16.76" (425.8 mm)	AL: 25.05" (636.3 mm) CI: 24.55" (623.6 mm) SS: 24.72" (627.9 mm)	AL: 29.90" (759.4 mm) CI: 30.43" (772.9 mm) SS: 29.76" (755.9 mm)

AL-Aluminum, CI-Cast Iron, SS-Stainless Steel, AL-NP-Nickle Plated Aluminum See service manual for complete specifications

VERSAMATIC PUMPING MADE EASY

FDA / HYGIENIC

	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 Wetted Material	E5	E1	E4	E2	E3
	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				
	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)
S	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
SPECIFICATIONS	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)
ICA1	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)
SP	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	Hytrel, FDA Santoprene, 2-Piece PTFE, IP Bonded PTFE	Hytrel, FDA Santoprene , 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)

SS-Stainless Steel, AL-NP-Nickle Plated Aluminum, PP-Polypropylene,

See service manual for complete specifications-

*Standard Configuration



^{*}Standard Configuration

BOLTED PLASTIC

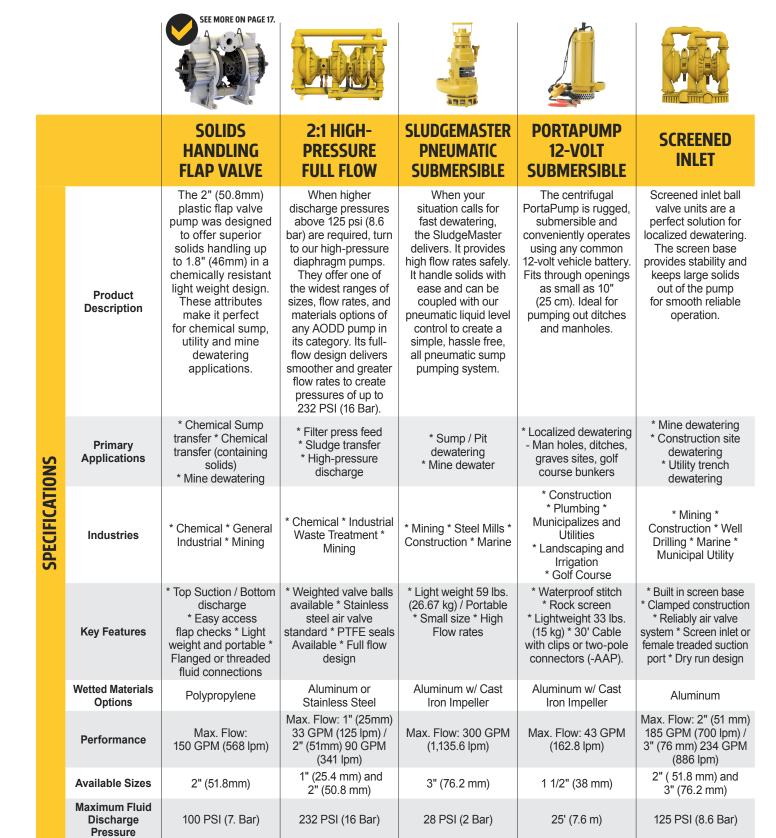
	PORT SIZE	1/4" (6.4 MM)	3/8" (9.52 MM)	1/2" (12.7 MM)	1" (25.4 MM)	1.5" (38 MM)	2" (50.8 MM)	3" (76.2 MM)
	Pump Model	E6	E8	E5	E1	E40	U2	E3
	Wetted Material Option	PP / PVDF / ACETAL	PP / PVDF	PP / PVDF	PP / PVDF	PP / PVDF / COND PP	PP / PVDF	PP / PVDF
	Air Side material	PP / ACETAL	PP	PP	PP	PP / COND PP	PP	PP
	Max Flow Rate Per Minute	5 gpm (19.0 lpm)	6.8 gpm (25.7 lpm)	11 gpm (41 lpm)	43 gpm (162.8 lpm)	100 gpm (378 lpm)	192 gpm (727 lpm)	280 gpm (1060 lpm)
	Porting Configurations	Suction: Center Horz* or Side Discharge: Center Vert* or Side	Suction: Center Horz* Discharge: Center Vert	Suction & Discharge: Side* or Center Vert or Horz	Suction: Side* or Center Discharge: Side* or Center	Suction: Center Horz* or Vert Discharge: Center Vert* or Horz	Suction: Side* or Center Discharge: Side* or Center	Suction: Center Horz* or Vert Discharge: Center Vert* or Horz
	Connection Type	1/4" FNPT Internal 1/2 MNPT External	3/8" NPT	1/2" NPT	1" 150# ANSI/DIN 325 Flange	1 1/2" ANSI / DIN Flange	2" ANSI 150# / DIN #50 Flange	3" ANSI 150# / DIN #80 Flange
NS N	Maximum Dry Suction Lift	8' (2.44 mm)	8' (2.44 mm)	12' (3.6 m)	11' (3.4 m)	19' (5.8m)	20' (6.1 m)	20' (6.1 m)
SPECIFICATIONS	Air Inlet: Port Air Exhaust: Port	Inlet: 1/4" NPT Exhaust: 1/4" NPT	Inlet: 1/4" NPT Exhaust: 1/4" NPT	Inlet: 3/8" NPT Exhaust: 3/8" NPT	Inlet: 3/8" NPT Exhaust: 1/2" NPT	Inlet: 3/4" NPT Exhaust: 1" NPT	Inlet: 1/2" NPT Exhaust: 3/4" NPT	Inlet: 3/4" NPT Exhaust: 1" NPT
CIFIC	Max Solids Handling	0.031" (1 mm)	0.10" (2.54 mm)	0.063" (1.6 mm)	.125" (3.1 mm)	0.47" (12 mm)	0.25" (6.4 mm)	0.71" (18.0 mm)
SPE	Max. Displacement per stroke	0.01 gal (0.04 L)	0.009 gal (0.034 L)	0.022 gal (0.08 L)	0.095 gal (0.36 L)	0.43 gal (1.63 L)	0.50 gal (1.90 L)	1.0 gal (3.8 L)
	Maximum Air Inlet Pressure	100 psi (6.8 bar)	100 psi (6.8 bar)	100 psi (6.8 bar)	100 psi (6.8 bar)	100 psi (6.8 bar)	100 psi (6.8 bar)	100 psi (6.8 bar)
	Shipping weight	3.3-3.9 lbs (1.5-1.8 kg)	3.0-4.5 lbs (1.4-2.0 kg)	8.5-12 lbs (3.9-5.4 kg)	17-22 lbs (7.7-10 kg)	82-112 lbs (37-51 kg)	67-93 lbs (30-42 kg)	208-271 lbs (94-123 kg)
	Height	7.90" (201 mm)	5.32" 135 mm)	11.70" (297.1 mm)	16.94" (430.1 mm)	28.75" (730 mm)	30.25" (768 mm)	40.66" (1033 mm)
	Width	7.52" (191 mm)	4.09" (104 mm)	9.30" (236.3 mm)	13.52" (343.4 mm)	23.0" (584 mm)	19.88" (505 mm)	32.31" (821 mm)
	Depth	5.49" (139 mm)	PP: 5.72" (145 mm) PVDF: 5.67" (144 mm)	6.25" (158.8 mm)	9.13" (231.9 mm)	13.0" (330 mm)	12.56" (319 mm)	16.19" (411 mm)
	Base to Suction	0.79" (20 mm)	0.94" (24 mm)	2.03" (51.5 mm)	2.50" (63.5 mm)	3.5" (89 mm)	3.00" (76 mm)	4.85" (123 mm)
	Base to Discharge	7.90" (201 mm)	5.32" 135 mm)	10.06" (255.5 mm)	14.75" (374.7 mm)	28.75" (730 mm)	27.25" (692 mm)	40.66" (1033 mm)

PP-Polypropylene, **PVDF**-Polyvinylidene Fluoride, **COND PP**-Conductive Polypropylene See service manual for complete specifications *Standard Configuration



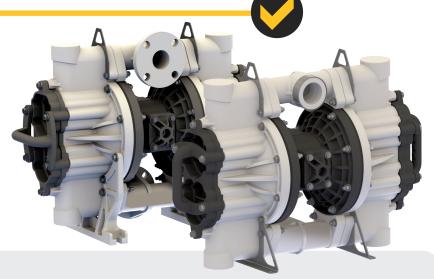


SPECIALTY

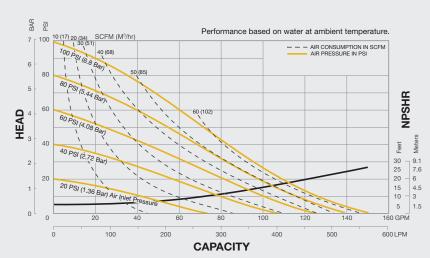


THE CHEMICALLY RESILIENT **SOLIDS HANDLING SOLUTION**

The 2" (51 mm) plastic Flap Valve Pump was designed to offer superior solids handling in a chemically resistant light weight portable design. These attributes make it perfect for chemical sump, utility and mine de-watering applications.



PERFORMANCE



SOLIDS HANDLING RANGE

Up to 1.8" (46mm)

LIGHTWEIGHT & PORTABLE

At 53 lbs (24 kg) it is safely and easily transported

TOP SUCTION / BOTTOM DISCHARGE

Gravity assist is ideal for pumping liquids with settling solids

BEST-IN-CLASS FLOW RATE

150 GPM (568 lpm)

ALL BOLTED CONSTRUCTION

Rugged, leak free design

SUPERIOR DRY PRIME

Up to 19' (5.8m) of water

EASE OF MAINTENANCE

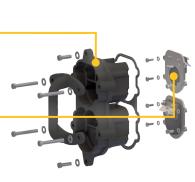
Quick Access to Serviceable Components

REMOVE CLEAN-OUT CAP

By simply removing six bolts securing the clean-out cap in place, it allows access to clear simple clogs without disassembling the entire pump.

MODULAR CHECK VALVE ACCESS

With the clean-out cap removed, the flap valves can be inspected and / or replaced as needed; four bolts hold the modular flap valves in place for quick maintenance and repair.







Certifications



CE. ATEX. ABS

CE. ABS

CE, ATEX

CE. ATEX

CE

AODD PUMP PARTS AND ACCESSORIES TO KEEP YOU PUMPING

Versamatic offers genuine parts and accessories to enhance the performance and improve the longevity of our air-operated double-diaphragm (AODD) pumps. From convenient service kits to accessories that boost performance, our genuine parts are tailor-made for your Versamatic AODD pump.



Visit us online to learn more about our line of accessories. Be sure to check out the video library for quick tips,

DIAPHRAGM PUMP SERVICE KITS – KEEP YOUR PUMP RUNNING

COMPLETE PUMP REPAIR KITS - KEEP YOUR PUMP RUNNING LONGER

Our repair kits are comprised of only the necessary components to ensure a complete pump repair. These kits reduce costly downtime, lost production and multiple maintenance associated with partial repairs.

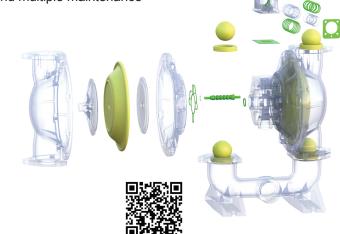
REPAIR KITS

Wet End Repair Kit:

- Diaphragms
- Balls
- Seats

Air End Repair Kit:

- Seals
- O-rings
- Gaskets
- Retaining Rings
- Pilot Valve Assembly
- Lubricant
- Assembly Lubricant



MATERIALS

OPERATING TEMP							
MATERIAL PROFILE	MAX.	MIN.					
Conductive Acetal: Tough, impact resistant, ductile. Good abrasion resistance and low friction surface. Generally inert, good chemical resistance except for strong acids and oxidizing agents.	190°F 88°C	-20°F -29°C					
EPDM: Very good water and chemical resistance. Has coor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C					
KM: (Fluoroelastomers) Shows good resistance to a vide range of oils and solvents; especially all aliphatic, romatic and halogenated hydrocarbons, acids, animal nd vegetable oils. Hot water or hot aqueous solutions over 70°F) will attack FKM.	350°F 177°C	-40°F -40°C					
Hytrel®: Good on acids, bases, amines and glycols at room temperatures only.	220°F 104°C	-20°F -29°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 hydrocarbons.	200°F 93°C	-10°F -23°C					
Nitrile: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, bzone, chlorinated hydrocarbons and nitro hydrocarbons.	190°F 88°C	-10°F -23°C					
Polypropylene: A thermoplastic polymer. Moderate tensile and flex strength. Resists strong acids and alkali. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents.	180°F 82°C	32°F 0°C					

MATERIAL PROFILE	OPERATI	NG TEMP
MATERIAL PROFILE	MAX.	MIN.
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
Santoprene®: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance.	275°F 135°C	-40°F -40°C
UHMW PE: A thermoplastic that is highly resistant to a broad range of chemicals. Exhibits outstanding abrasion and impact resistance, along with environmental stress-cracking resistance.	180°F 82°C	-35°F -37°C
Urethane: Shows good resistance to abrasives. Has poor resistance to most solvents and oils.	150°F 66°C	32°F 0°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 a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temp.	220°F 104°C	-35°F -37°C
Maximum and Minimum Temperatures are the limits for which	ch these mat	erials can

be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of

METALS

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.

HOW TO READ A PERFORMANCE CURVE

₃₂₀

280-80 -

240-

60 -

40 -

30 -

20 -

10 -

1. SELECT FLOW RATE (GPM)

Example: 80 GPM

2. DETERMINE DISCHARGE HEAD (PSI)

Example: **60** PSI 3. SEE INLET AIR PRESSURE (PSI)

Example: 100 PSI

4.SEE AIR CONSUMPTION (SCFM) Example: 80 SCFM

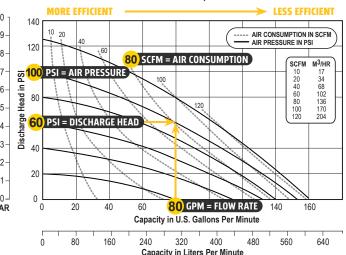


SELECTION TIP: SIZE-UP

wear on pump to measurably reduce total cost of ownership.

Contact your distributor or Versamatic application engineer

2" CURVE EXAMPLE: 80 GPM, 60 PSI = 80 SCFM



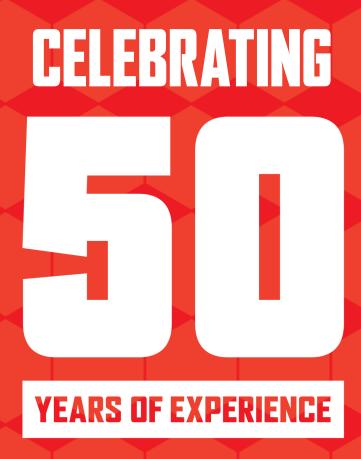
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