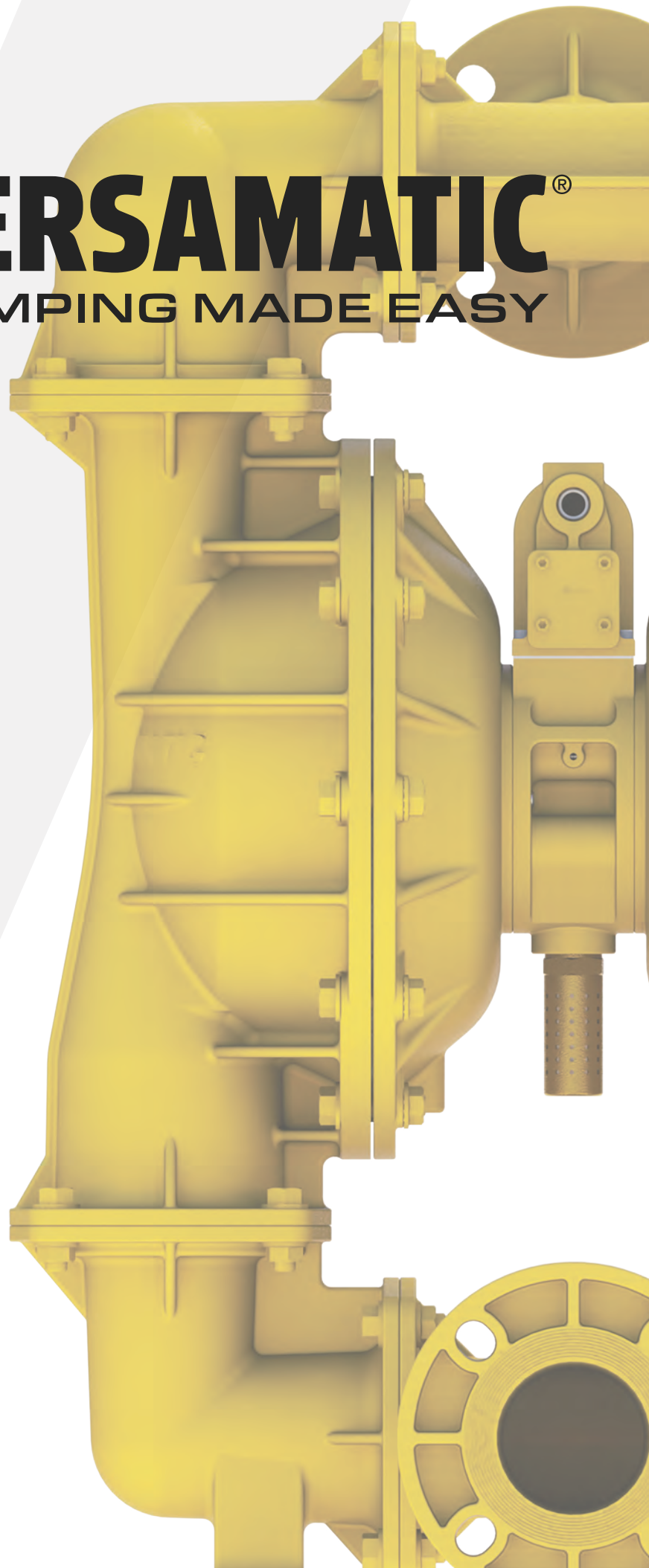




VERSAMATIC[®]

PUMPING MADE EASY



AIR OPERATED DOUBLE DIAPHRAGM PUMPS

WHY VERSAMATIC?

Since 1983, Versamatic has provided reliable, quality AODD pumping solutions globally to customer who value simplicity, quick delivery and convenience.

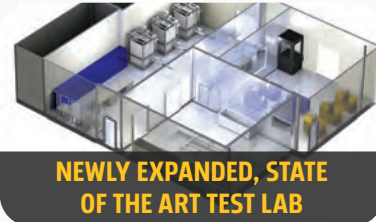
When purchasing Versamatic products, you can be confident knowing you are fully supported by experienced teams of professionals from product selection to installation and beyond.



AWARD-WINNING MANUFACTURING FACILITY
80,000 square foot manufacturing plant. Award-winning facility, ensuring continuous improvement.



PRODUCT ENDURANCE LAB
Ensures product performance and drives product enhancements.



NEWLY EXPANDED, STATE OF THE ART TEST LAB
Increased test capacity, performance, and endurance. Improved overall efficiency.



APPLICATIONS ENGINEERING, CUSTOMER SERVICE & AFTER SALES SUPPORT
From product selection, to troubleshooting, our team of experts are ready to help.



100% TESTED QUALITY ASSURANCE
Enables consistent quality through scientific processes.



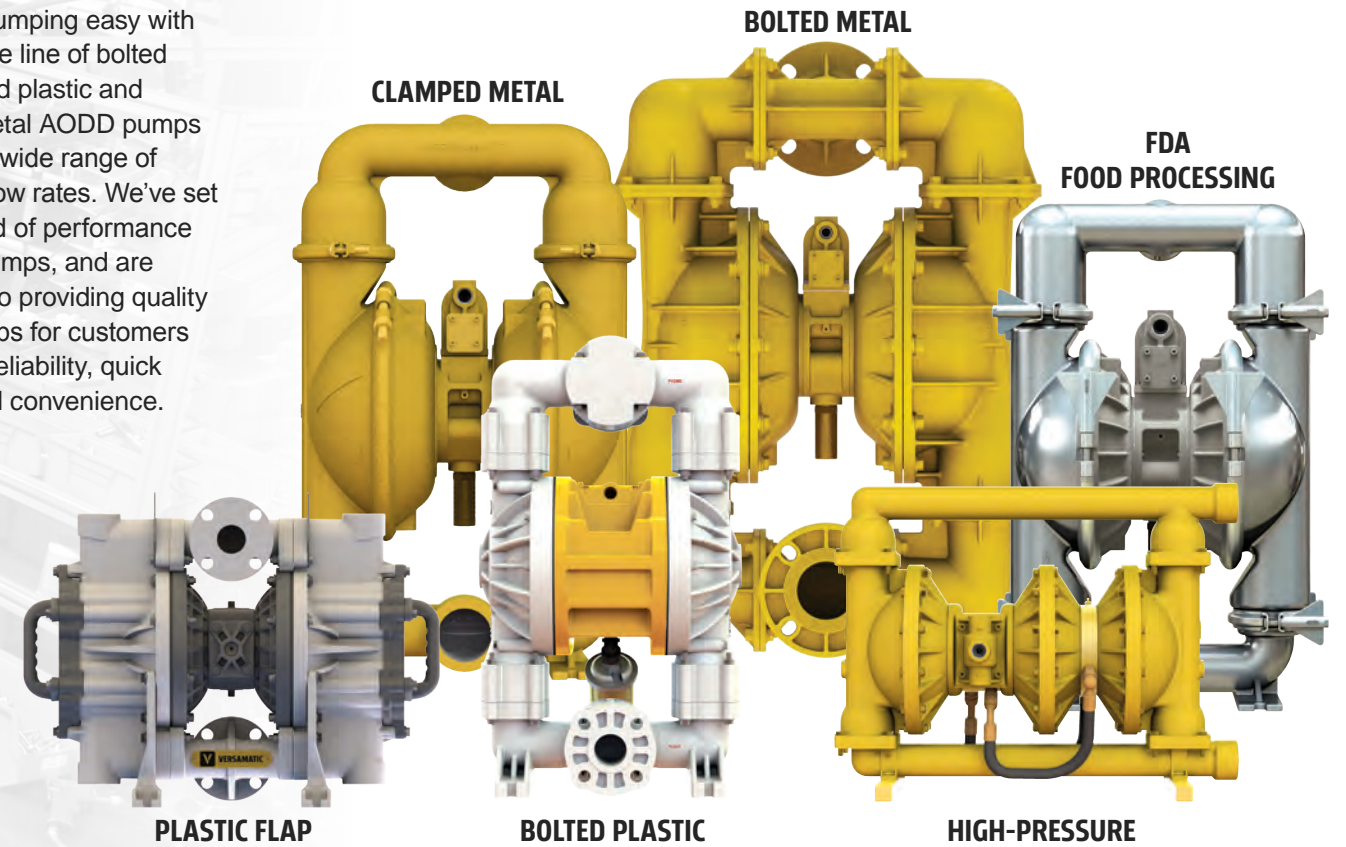
GENUINE KITS AND PARTS
Provide guaranteed quality and ease of maintenance.



DEDICATED TEAM TO SUPPORT YOU!
Providing product expertise, personalized service, and after sales support.

THE VERSAMATIC ADVANTAGE

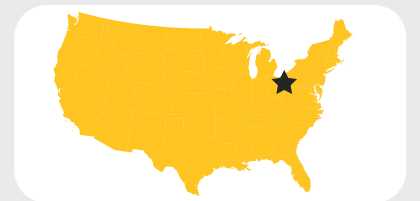
We make pumping easy with our complete line of bolted metal, bolted plastic and clamped metal AODD pumps offered in a wide range of sizes and flow rates. We've set the standard of performance in AODD pumps, and are committed to providing quality AODD pumps for customers who value reliability, quick delivery and convenience.



AROUND THE GLOBE
EXTENSIVE GLOBAL DISTRIBUTION NETWORK



AODD PUMPS SHIPPED FAST!
QUICK SHIP PROGRAM



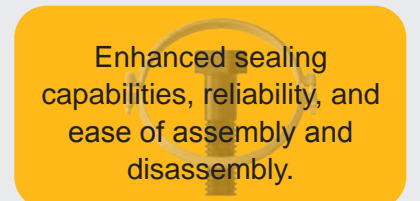
DESIGNED AND ASSEMBLED IN THE USA



5 YEAR LIMITED WARRANTY
PRODUCT ASSURANCE



100% TESTED
PRODUCT TESTING



CLAMPED OR BOLTED CONSTRUCTION

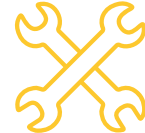
RELIABLE PUMPING MADE EASY

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.



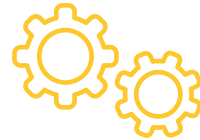
GLOBAL DISTRIBUTION

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.



BLOGS



CERTIFICATIONS



LITERATURE



CHEM GUIDE



MOBILE APP




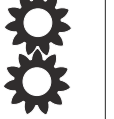





VIDEOS



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)	✓	!	!	!	!	!	!
Deadheads Safely: (at zero energy consumption)	✓	!	!	!	!	!	!
Dry-Running:	✓	✗	✗	✗	✗	✗	✗
Dry-Priming: (lift installations)	✓	✗	✗	✗	✗	✗	!
No Installation Alignment Required:	✓	✗	✗	✗	✗	✗	✗
No Electrical Installation Required:	✓	✗	✗	✗	✗	✗	✗
Portability:	✓	!	!	!	!	!	!
Submersible:	✓	!	✗	✗	✗	✗	✗
Sealless: (no packing or mechanical seals)	✓	!	!	!	!	!	!
No Slip: (thin liquids)	✓	!	!	!	!	!	!
Cavitation Tolerance: (low NPSHa)	✓	✗	!	!	!	!	!
Low Shear & Degradation:	✓	✗	!	!	!	!	!

✓ = Best Fit ! = Limitations ✗ = Not Recommended

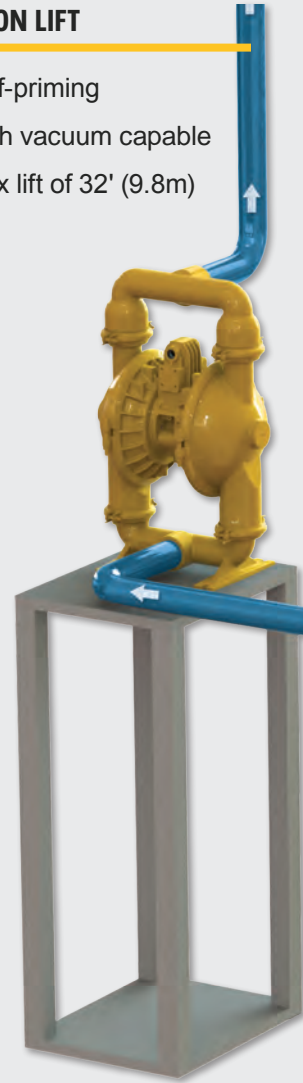
- Run-dry without damaging the pump or system
- Pump solid laden fluids without pump or product damage
- Self-priming, works in suction lift applications
- Deadheads safely, with no pump or product damage
- Shear sensitive, does not shear or separate product being pumped
- No electricity required, and 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

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

SUCTION LIFT

- Self-priming
- High vacuum capable
- Max lift of 32' (9.8m)



SUBMERGED

- Capable of full submersion
- Screened inlet option



FLOODED SUCTION

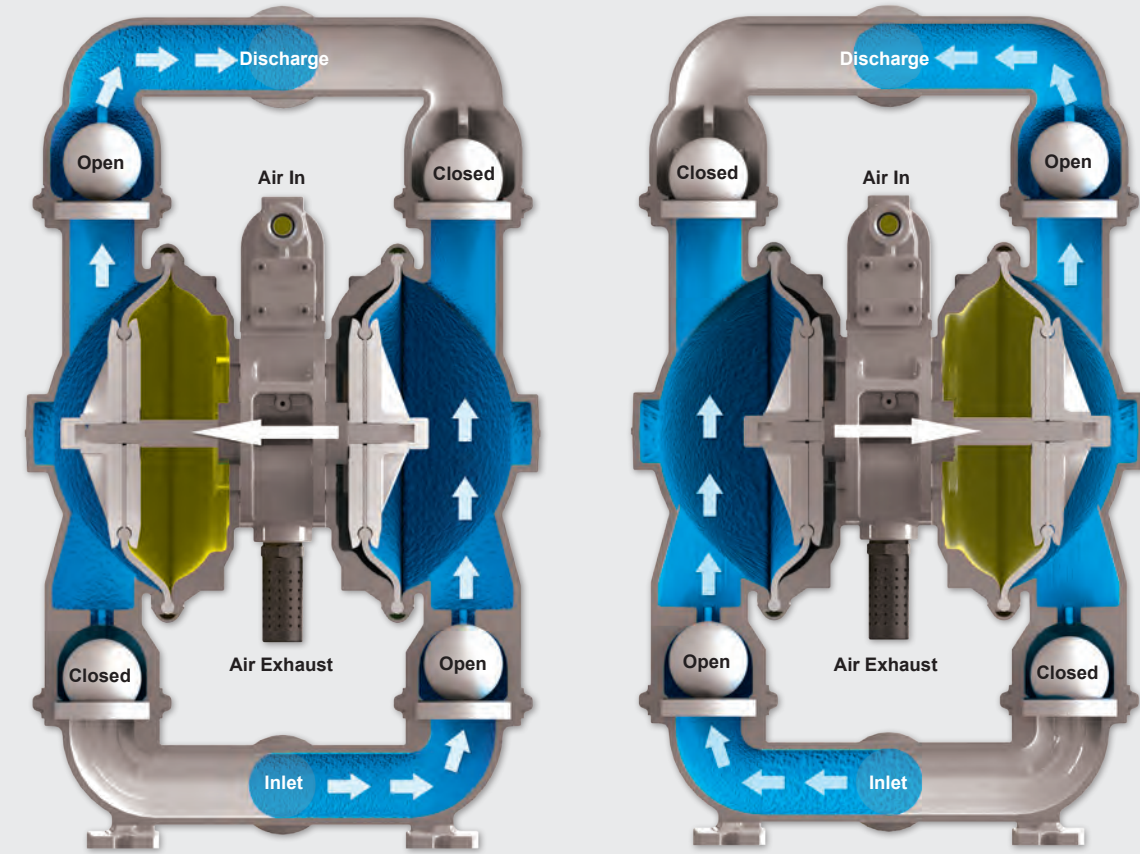
- Preferred for viscous fluids
- Most common application
- Screened inlet option



NOTE: Consult your distributor or owners manual for proper materials of construction and installation for your application.

HOW AODD PUMPS WORKS

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.

= Compressed Air

= Pumped Fluid

MARKETS WE SERVE



PUMP MODEL CODES

HOW TO READ VERSAMATIC MODEL CODES

1 2 3 4 5 6 7 8 9 10 - A A A

MODEL
E Elima-Matic®
U Ultra-Matic®

PUMP SIZE
6 1/4" (6mm)
8 3/8" (8mm)
5 1/2" (13mm)
7 3/4" (19mm)
1 1" (25mm)
4 1-1/4" or 1-1/2" (38mm)
40 1-1/2" (38mm)
2 2" (51mm)
3 3" (76mm)

WETTED (NON-ELASTOMERIC)
A Aluminum
C Cast Iron
S Stainless Steel
P Polypropylene
K PVDF
B Aluminum (Screen Mounted)

NON-WETTED
A Aluminum
S Stainless Steel
P Polypropylene
J Nickel-Plated Aluminum

DIAPHRAGM
1 Neoprene
2 Nitrile (Buna)
3 FKM (Fluoroelastomers)
4 Nordel® (EPDM)
5 PTFE
6 TPE-XL (Santoprene®)
7 Hytrel®
Y FDA TPE-XL (Santoprene®)

DIAPHRAGM SERIES
R Rugged™
D Dome™
X Thermo-Matic™
T 2-piece PTFE
F FUSION™ (1-piece, int. plate)

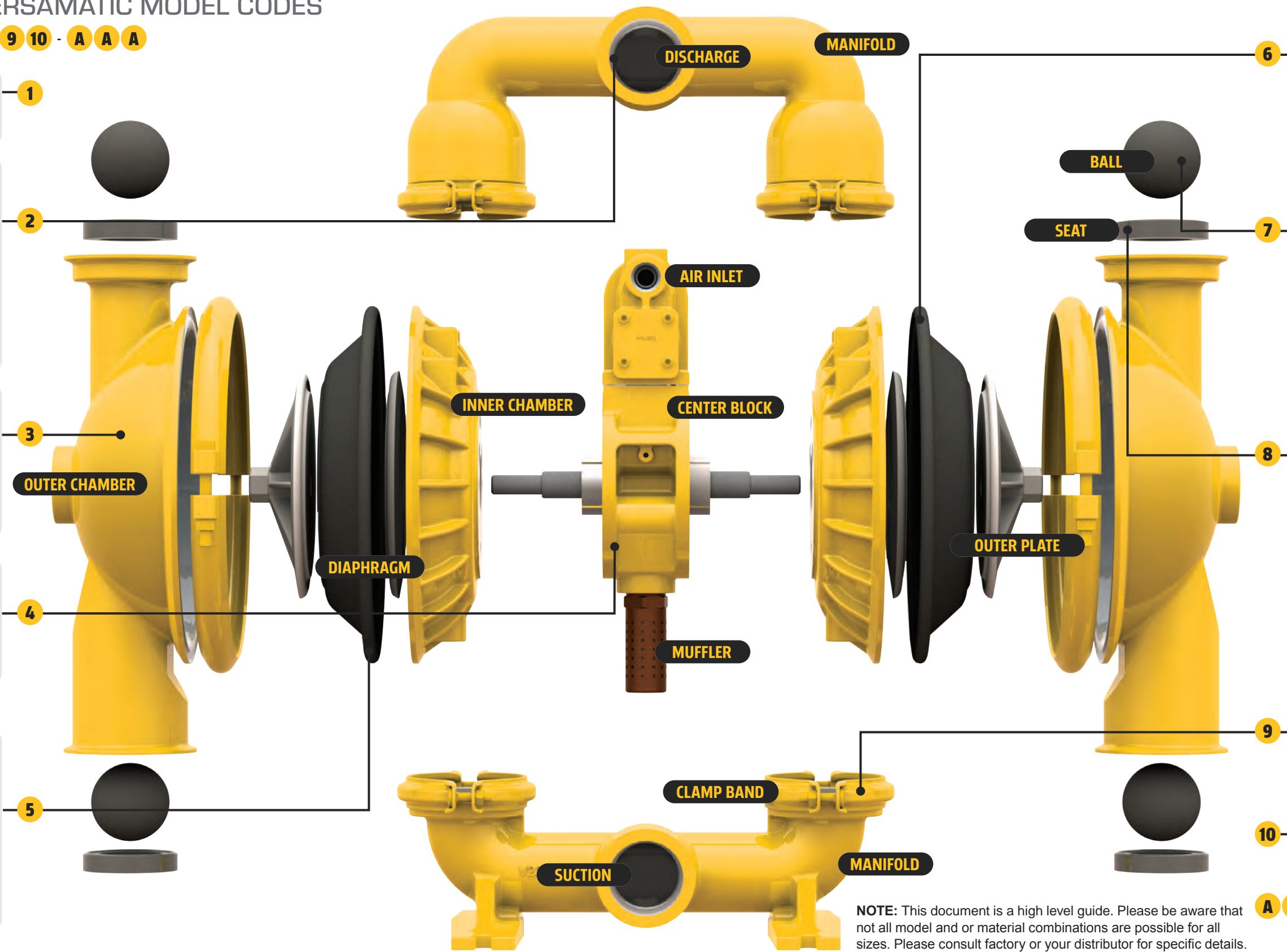
VALVE BALL
1 Neoprene
2 Nitrile (Buna)
3 FKM (Fluoroelastomers)
4 Nordel® (EPDM)
5 PTFE
6 TPE-XL (Santoprene®)
7 Hytrel®
S Stainless Steel
Y FDA TPE-XL (Santoprene®)

VALVE SEAT/O-RING
1 Neoprene
2 Nitrile (Buna)
3 FKM (Fluoroelastomers)
4 Nordel® (EPDM)
5 PTFE
6 TPE-XL (Santoprene®)
7 Hytrel®
A Aluminum / PTFE
S Stainless Steel / PTFE
C Carbon Steel / PTFE
T PTFE Encapsulated Silicone
Y FDA TPE-XL (Santoprene®)

CONSTRUCTION
9 Bolted
0 Clamped

REVISION LEVEL

A A A OPTIONS



NOTE: This document is a high level guide. Please be aware that not all model and or material combinations are possible for all sizes. Please consult factory or your distributor for specific details.

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 / CI / SS	AL	CI / 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
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)
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
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)	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)

SPECIFICATIONS

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

CLAMPED METAL



	1.5" (38 MM)	2" (50.8 MM)	3" (76.2 MM)
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)
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
Max Solids Handling	0.188" (4.8 mm)	0.25" (6.4 mm)	.375" (9.5 mm)
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
*Standard Configuration

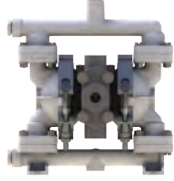


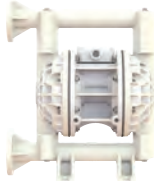


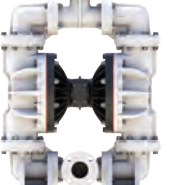
FDA / HYGIENIC



	1/2" (12.7 MM)	1" (25.4 MM)	1.5" (38 MM)	2" (50.8 MM)	3" (76.2 MM)
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	316 SS	316 SS	316 SS	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 mm)
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)	Clean Out of Place (COP)	Clean Out of Place (COP)	Clean Out of Place (COP)	Clean Out of Place (COP)
Wetted Casting Surface Finish, Microinches (Micrometers)	Ra 125 μ-in (3.175 μ-m)	Ra 125 μ-in (3.175 μ-m)	Ra 125 μ-in (3.175 μ-m)	Ra 125 μ-in (3.175 μ-m)	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	Hytrel, FDA Santoprene, 2-Piece PTFE, IP Bonded PTFE	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

BOLTED PLASTIC

							
	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)
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
Maximum Dry Suction Lift	8' (2.44 m)	8' (2.44 m)	12' (3.6 m)	11' (3.4 m)	19' (5.8m)	20' (6.1 m)	20' (6.1 m)
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
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)
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

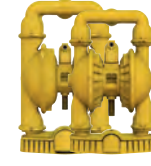
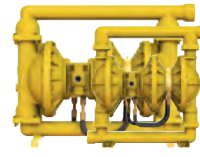
See service manual for complete specifications

*Standard Configuration

SPECIFICATIONS

SPECIALTY

SEE MORE ON PAGE 17.

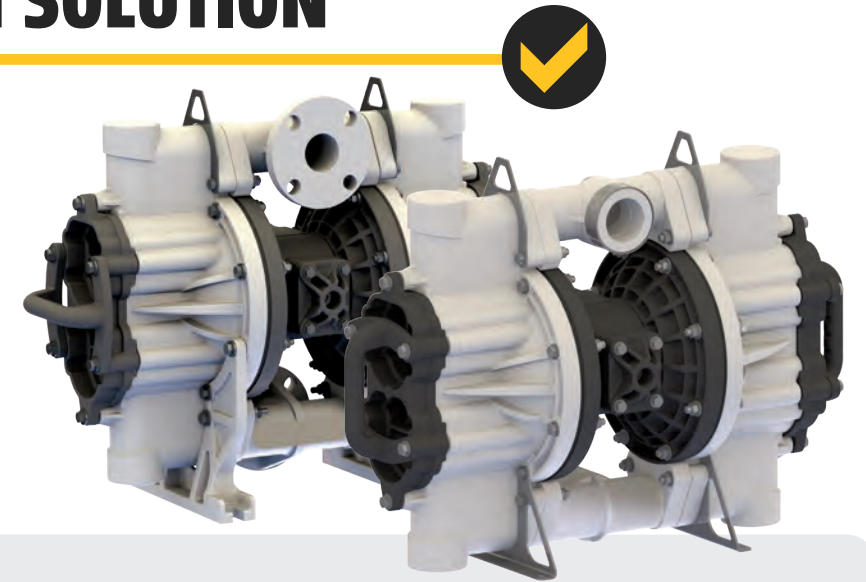


	SOLIDS HANDLING FLAP VALVE	2:1 HIGH-PRESSURE FULL FLOW	SLUDGEMASTER PNEUMATIC SUBMERSIBLE	PORTAPUMP 12-VOLT SUBMERSIBLE	SCREENED INLET
Product Description	The 2" (50.8mm) plastic flap valve pump was designed to offer superior solids handling up to 1.8" (46mm) in a chemically resistant light weight design. These attributes make it perfect for chemical sump, utility and mine dewatering applications.	When higher discharge pressures above 125 psi (8.6 bar) are required, turn to our high-pressure diaphragm pumps. They offer one of the widest ranges of sizes, flow rates, and materials options of any AODD pump in its category. Its full-flow design delivers smoother and greater flow rates to create pressures of up to 232 PSI (16 Bar).	When your situation calls for fast dewatering, the SludgeMaster delivers. It provides high flow rates safely. It handle solids with ease and can be coupled with our pneumatic liquid level control to create a simple, hassle free, all pneumatic sump pumping system.	The centrifugal PortaPump is rugged, submersible and conveniently operates using any common 12-volt vehicle battery. Fits through openings as small as 10" (25 cm). Ideal for pumping out ditches and manholes.	Screened inlet ball valve units are a perfect solution for localized dewatering. The screen base provides stability and keeps large solids out of the pump for smooth reliable operation.
Primary Applications	* Chemical Sump transfer * Chemical transfer (containing solids) * Mine dewatering	* Filter press feed * Sludge transfer * High-pressure discharge	* Sump / Pit dewatering * Mine dewater	* Localized dewatering - Man holes, ditches, graves sites, golf course bunkers	* Mine dewatering * Construction site dewatering * Utility trench dewatering
Industries	* Chemical * General Industrial * Mining	* Chemical * Industrial Waste Treatment * Mining	* Mining * Steel Mills * Construction * Marine	* Construction * Plumbing * Municipalities and Utilities * Landscaping and Irrigation * Golf Course	* Mining * Construction * Well Drilling * Marine * Municipal Utility
Key Features	* Top Suction / Bottom discharge * Easy access flap checks * Light weight and portable * Flanged or threaded fluid connections	* Weighted valve balls available * Stainless steel air valve standard * PTFE seals Available * Full flow design	* Light weight 59 lbs. (26.67 kg) / Portable * Small size * High Flow rates	* Waterproof stitch * Rock screen * Lightweight 33 lbs. (15 kg) * 30' Cable with clips or two-pole connectors (-AAP).	* Built in screen base * Clamped construction * Reliably air valve system * Screen inlet or female treaded suction port * Dry run design
Wetted Materials Options	Polypropylene	Aluminum or Stainless Steel	Aluminum w/ Cast Iron Impeller	Aluminum w/ Cast Iron Impeller	Aluminum
Performance	Max. Flow: 150 GPM (568 lpm)	Max. Flow: 1" (25mm) 33 GPM (125 lpm) / 2" (51mm) 90 GPM (341 lpm)	Max. Flow: 300 GPM (1,135.6 lpm)	Max. Flow: 43 GPM (162.8 lpm)	Max. Flow: 2" (51 mm) 185 GPM (700 lpm) / 3" (76 mm) 234 GPM (886 lpm)
Available Sizes	2" (51.8mm)	1" (25.4 mm) and 2" (50.8 mm)	3" (76.2 mm)	1 1/2" (38 mm)	2" (51.8 mm) and 3" (76.2 mm)
Maximum Fluid Discharge Pressure	100 PSI (7. Bar)	232 PSI (16 Bar)	28 PSI (2 Bar)	25' (7.6 m)	125 PSI (8.6 Bar)
Certifications	CE, ABS	CE, ATEX	CE, ATEX	CE	CE, ATEX, ABS

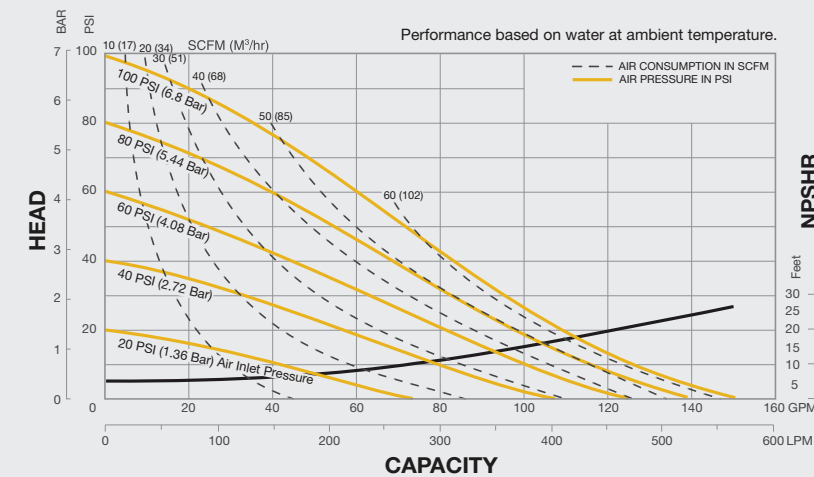
SPECIFICATIONS

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

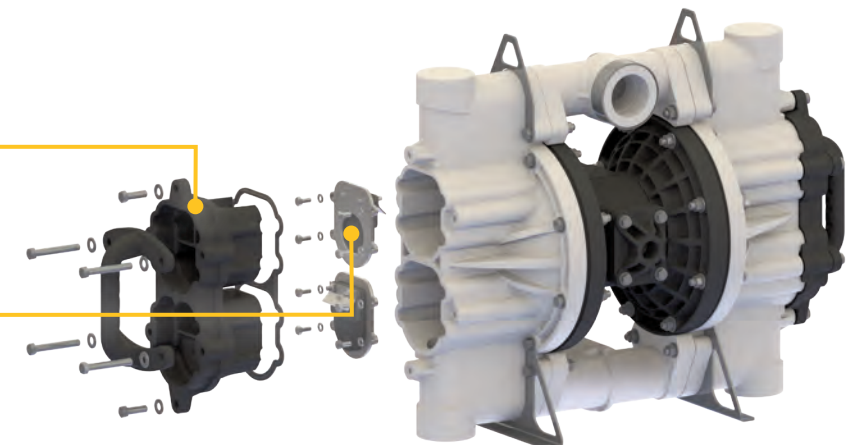
Quick Access to Serviceable Components

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.



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.

DIAPHRAGMS

SURGE SUPPRESSORS

AIR FILTER REGULATOR

LIQUID LEVEL CONTROLLER

DRUM PUMP

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

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.

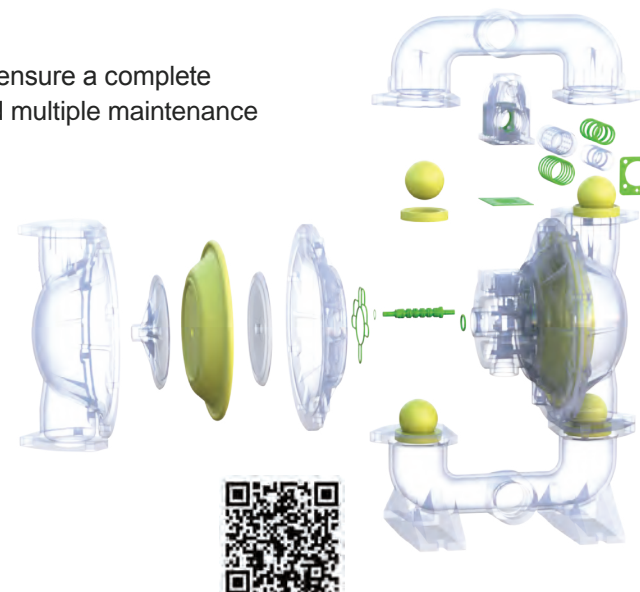
REPAIR KITS

Wet End Repair Kit:

- Diaphragms
- Balls
- Seats

Air End Repair Kit:

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



MATERIALS

MATERIAL PROFILE	OPERATING TEMP	
	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 poor resistance to oils and solvents, but is fair in ketones and alcohols.	280°F 138°C	-40°F -40°C
FKM: (Fluoroelastomers) Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. Hot water or hot aqueous solutions (over 70°F) will attack FKM.	350°F 177°C	-40°F -40°C
Hytre: 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, ozone, 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	OPERATING TEMP	
	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 these materials can be operated. Temperatures coupled with pressure affect the longevity of diaphragm pump components. Maximum life should not be expected at the extreme limits of the temperature ranges.

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

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)

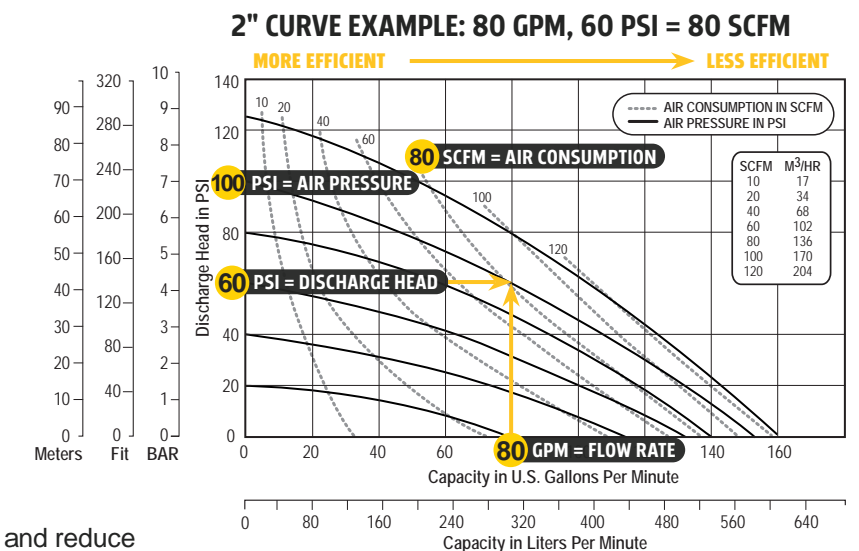
Example: **80** SCFM



SELECTION TIP: SIZE-UP

Size-up your pump to increase energy savings and reduce wear on pump to measurably reduce total cost of ownership.

Contact your distributor or Versamatic application engineer for more information: apptech.warrenrupp@idexcorp.com



RESOURCES AVAILABLE

LITERATURE



CHEM GUIDE



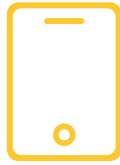
BLOGS



CERTIFICATIONS



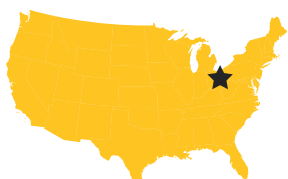
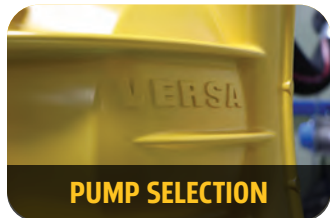
MOBILE APP



VIDEOS



ALL RESOURCES



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