

BEST SOLUTION FOR LIQUID TRANSFER



AERON ENGINEERING



AIR OPERATED DOUBLE DIAPHRAGM PUMP – AER SERIES

SUBMERSIBLE SEWAGE PUMP - AES SERIES

SUBMERSIBLE DEWATERING PUMP – AED SERIES

SS 316 CENTRIFUGAL PUMP – SS SERIES

POLYPROPYLENE CENTRIFUGAL PUMP – NMP SERIES

METERING & DOSING PUMP – PD/MDI/HYD SERIES

AERON

**WE PUT OUR
HEART
INTO PUMPS**

**E: aeronpumps@gmail.com
www.aeronengineering.com**

INDUSTRIAL CHEMICAL TRANSFER PUMPS

VISION

To become a company that constantly strives for quality and customer satisfaction by providing best pumping solutions with global benchmarks.

To excel with an emphasis on best business and ethical practices with strong organizational values. Also to achieve significant Global Presence in Process and Environmental Technology there by reducing Product Life Cycle Costs.

MISSION

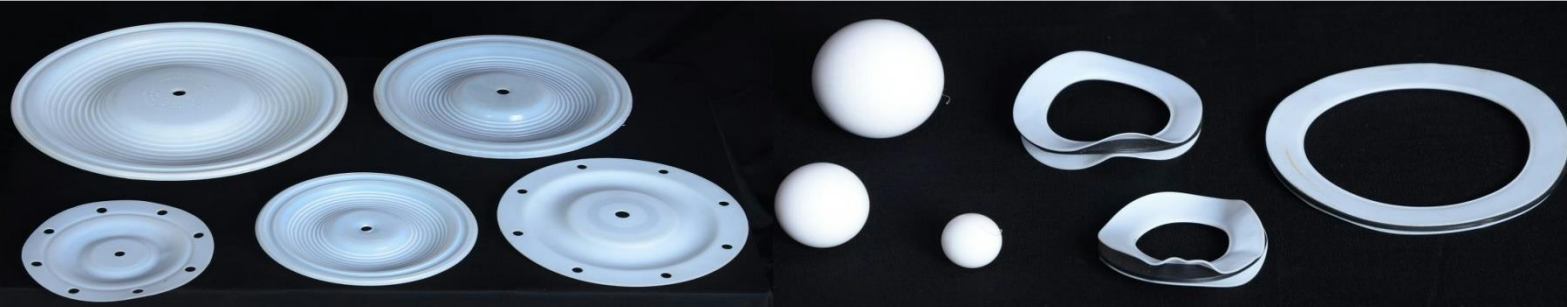
To work relentlessly towards achieving our vision statement by offering Best working environment and training, keeping our focus on integrity and ethics. To empower the workforce, and offer products and services that exceeds customer expectations by providing value for money.

Also to capitalize on some of the Toughest Process Pump Solutions through innovative Chemical Resistant Materials with the help of the highest quality Pump Engineering Methods.

LIST OF FEW CUSTOMERS

Shree Mahabir Service Station	Balasore
B & A Packaging India Ltd	Kolkata
Madhubati Papers Pvt Ltd	Howrah
Standatd Machinery Company	Bhopal
Premier Intermediates Pvt Ltd	Boisar
Yorozu JBM Automotive Tamilnadu Pvt Ltd	Tamil Nadu
Patton International Ltd	Kolkata
Fumak Automation	Chennai
Pragati Engineers & Consultants	Rabale
Rimjhim Stainless Ltd	Unnao
Herbert Brown Pharmaceutical & Research Laboratories	Dombivli
Logos Engineers	Hyderabad
JSW Ltd	Andhra Pradesh
Wintech International Inc	Mumbai
JVL Oil Refinery	Haldia
Excellent Engineers	Faridabad
SB Movers & Lifters Pvt Ltd	Pathankot
North Construction	Mumbai
Aquacare Technologies	Uttarakhand
Debjyoti Pulp & Paper Pvt Ltd	Asanol
Jindal Saw Ltd	Bhilwara
Johnson Matthey Chemicals India Pvt Ltd	Kanpur
DeConverter India Pvt Ltd	Howrah

AIR OPERATED DOUBLE DIAPHRAGM PUMP



APPLICABLE INDUSTRIES

**Automotive Industry
Beverage Industry
Ceramics
Chemical Industry
Construction Industry
Cosmetics
Food
Furniture Industry
Mining
Municipalities**

**Paints & Coating
Pharmaceutical Industry
Plating
Refineries
Road Tanker Truck
Shipbuilding
Water and Sewage Treatment
Utility
Petrol/Gas Stations**



SALIENT FEATURES

No Seal, No Leakage
No Motor, No fire, Explosion Proof
No Rotation, No Charging, Less Wear and Tear
Self-Priming, No Foot Valve Needed
Pump can run dry without damage
Variable Flow with same Pump
Stop Automatic on Closing of Discharge Valve
Light weight, handy in use
Can Handle Solid 2mm to 10mm
Can be used as Double Suction & Double Discharge

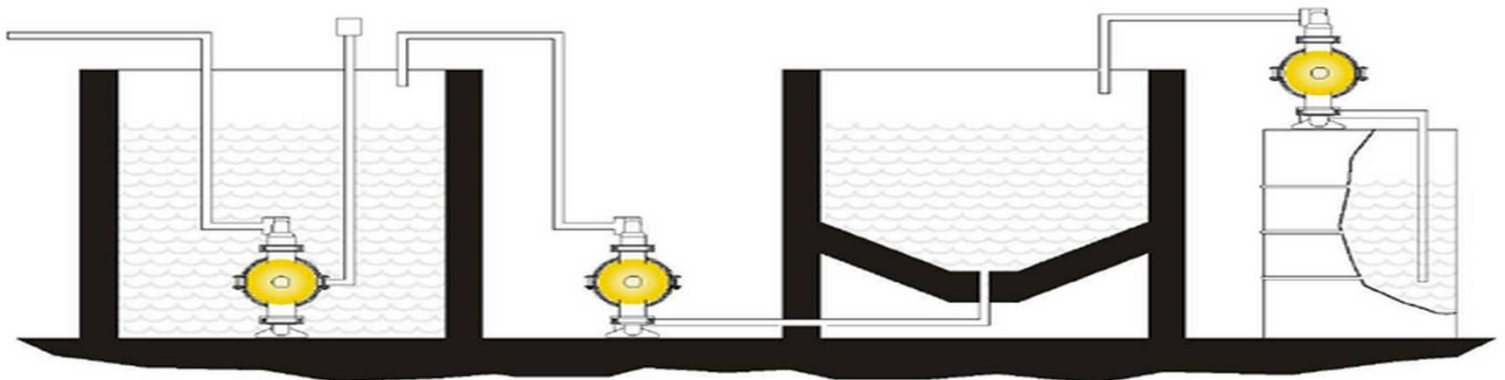
SPECIFICATIONS

These Parameters depend on size of Pump

1. Flow: Max 30 m³/hr
2. Pressure: Max 7 kg/cm²
3. Solid Size: Max 10 mm
4. Solid%: Max 50%
5. Temperature: Max 90°C
6. Viscosity: Max 15000CP

PERFORMANCE TABLE OF AODD PUMP

MODEL	INLET AIR CONECTION	INLET IN INCH	OUTLET IN INCH	MAX FLOW IN LPM	MAX SOLID SIZE IN MM	MATERIAL OF CASING
AER 15	1/4" BSP	½	½	40	2.5	PP/PVDF/SS/ALU
AER 25	3/8" BSP	1	1	135	3.4	PP/PVDF/SS/ALU
AER 40	3/8" BSP	1.5	1.5	270	5.0	PP/PVDF/SS/ALU
AER 50	½" BSP	2	2	586	6.5	PP/PVDF/SS/ALU



POLYPROPYLENE CENTRIFUGAL & VERTICAL PUMP

SPECIFICATIONS FOR CENTRIFUGAL PUMP

CAPACITY RANGE	UPTO 60 M3/HR
HEAD RANGE	UPTO 60 METER
ELECTRICAL MOTOR	UPTO 25 HP
SEALING ARRANGEMENT	GFT/CERAMIC
M.O.C:	
VOLUTE CASING, BACK PLATE, IMPELLER ARE IN POLYPROPYLENE	



BARE-SHAFT TYPE



MONOBLOCK TYPE

APPLICATION

1. Effluent Treatment: ETP having acid Percentage.
2. Wire Industries: For Acid Tanks.
3. PP pump can transfer more than 600 Chemicals.
4. Dyes, Pigment & Breweries.
5. Acid Pickling.
6. Detergent and Caustic.
7. Drugs & Pharmaceuticals.

SALIENT FEATURES

1. All Wetted Parts are offered in Polypropylene having good resistance to erosion for slurry Service.
2. Impeller radial semi open robust construction injection moulded with back vanes to Minimize axial thrust for increased bearing life. And with SS insert for easy removal.
3. Shaft Sleeve is of Ceramic.
4. Pump can be supplied with priming chamber for self-priming.
5. Pumps are available with different mounting like's monoblock, bare shaft and Vertical Pump.
6. All non PP parts are coated with anti-corrosive paints to protect from corrosive atmosphere.
7. Available with extremely mounted mechanical seal of GFT vs Ceramic or Silicon face with Teflon as per application
8. External cooling arrangement provided in pump for enhancement of mechanical seal.

SPECIFICATIONS FOR VERTICAL PUMP

MOTOR:	1 TO 3 HP
COLUMN HEIGHT:	300 MM TO 1000 MM
SIZE(INLET/OUTLET):	25X25 MM / 40X40 MM
MOC: CASING, IMPELLER, BACK PLATE, COLUMN PIPE, SUPPORT PLATE IN PP	
SHAFT: SS & SLEEVE: CERAMIC	

SPECIAL FEATURES:

- Bearing free design for handling abrasive in solution
- No Metal contact in solution
- No danger of corrosion or contamination



VERTICAL
TYPE

PERFORMANCE TABLE OF PP CENTRIFUGAL PUMP

Sr No.	Model	Q= m3/hr& H=meter												Shut off head in meter
		HP	RPM	Suc x Dis	Imp Dia									
1	NMP-22-100H	1	2900	25x25	100	Q	0	1	2	3	4	5	6	14
						H	14	13.5	13	12.5	12	10	7	
2	NMP-44-120H	2	2900	40x40	120	Q	0	5	7	10	12	15	17	18
						H	18	16	15.5	15	13	10	7	
3	NMP-34-130H	3	2900	40x32	130	Q	0	5	7	10	12	15	18	25
						H	25	22	20.5	18	16	14	11	
4	NMP-44-150H	3	2900	40x40	150	Q	0	5	7	10	12	15	18	25
						H	25	20	18	16.5	15	14	10	
5	NMP-47-160H	5	2900	75x40	160	Q	0	5	10	15	20	25	32	33
						H	33	31	30	27	23.5	20.5	17	
6	NMP-44-190L	2	1400	40x40	190	Q	0	5	10	15	20	25	27	14
						H	14	13	12.5	12	10.6	11	10	
7	NMP-47-210L	3	1400	75x40	210	Q	0	7	12	17	23	28	34	15
						H	15	13.6	12.5	11.6	11	10	7	
8	NMP-57-210L	5	1400	75x50	210	Q	0	10	20	30	40	50	52	16
						H	16	15	13.7	12	11	7.6	7	
9	NMP-57-170H	7.5	2900	75x50	170	Q	0	10	20	30	40	50	60	37
						H	37	35	33	30	27	22	15.5	
10	NMP-45-190H	12.5	2900	50x40	190	Q	0	5	10	20	30	40	44	50
						H	50	47	45	41	37	30	24	
11	NMP-55-220L	5	1400	50x50	220	Q	0	5	11	16	22	31	40	18
						H	18	17	16	15.5	15	13	11	
12	NMP-55-210H	15	2900	50x50	210	Q	0	10	20	30	40	50	60	61
						H	61	60	58	55	51	48	42	

Note: NMP- Non Metallic PP Pump

- 1. Bareshaft Pumps are available from 1 to 15HP.**
- 2. Monoblock Pumps are available upto 5HP.**
- 3. PP Vertical Pumps are available upto 3HP.**

SS 316 CENTRIFUGAL PUMP & SELF PRIMING PUMP



BARE-SHAFT TYPE



MONOBLOCK TYPE



SELF PRIMING TYPE

APPLICATION

Chemical Plants:

Caustic transfer, Acid Loading & Unloading, Monomer & Polymer Transfer, Dyes & Intermediate, Waste Acid Recovery, Scrubber Service, Pickling Application.

Petrochemical: Aromatics, Low Specific gravity, Hydro Carbons.

Pulp & Papers: Coating Slurries, Alum & Titanium Transfer.

Pharma Industries: API Bulk drugs Plants, DM Water Plants.

SALIENT FEATURES

- 1. Pump Available in SS 316(CF 8M) Investment Casting- High Efficiency, better Surface finish & Back Pullout Design.**
- 2. Accurate alignment of Impeller to casing provides maximum Hydraulic efficiency.**
- 3. Arrangement for cooling Seal or Packing at elevated temperature in SS Series.**
- 4. Removable SS Shaft Sleeve Simplifies maintenance.**
- 5. Maximum sealing Flexibility – any type inside or outside single or double**
- 6. Mechanical Seal almost any mechanical Seal will fit.**

SPECIFICATIONS

CAPACITY RANGE

UPTO 900 LPM

HEAD RANGE

UPTO 72 METER

ELECTRICAL MOTOR

UPTO 25HP

SEALING ARRANGEMENT

CARBON/SIC

M.O.C:

**VOLUTE CASING, BACK PLATE,
IMPELLER ARE IN SS 316**

PERFORMANCE TABLE OF SS CENTRIFUGAL PUMP

Sr No	Model	HP	RPM	Suc x Dis	Imp Dia MM	Q= m3/hr& H=meter								Shut off head in meter
1	SS 32X25X110	1	2900	32x25	110	Q	0	2	4	5	6	7	8	18
						H	18	13	11	8	5	2	0	
2	SS 32X25X120	2	2900	32x25	120	Q	0	2	5	8	10	12	15	20
						H	20	18	15	11	7	5	0	
3	SS 32X25X130	3	2900	32x25	130	Q	0	2	5	10	12	15	18	24
						H	24	23	22	21	17	15	0	
4	SS 50X40X150	3	2900	50x40	150	Q	0	7	9	11	13	17	19	25
						H	25	22	19	15	10	5	0	
5	SS 32X25X180	5	2900	32x25	180	Q	0	5	10	15	20	25	30	45
						H	45	42	40	36	32	22	0	
6	SS 50X40X150	5	2900	50x40	150	Q	0	7	16	22	25	27	30	36
						H	36	32	28	25	22	15	0	
7	SS 40X25X150	5	2900	40x25	150	Q	0	7	16	22	25	27	30	38
						H	38	34	31	27	24	20	0	
8	SS 80X50X150	7.5	2900	80x50	150	Q	0	25	35	45	65	85	95	32
						H	32	30	28	25	22	20	0	
9	SS 40X25X200	12.5	2900	40x25	200	Q	0	10	15	20	25	30	35	62
						H	62	60	57	55	50	45	0	
10	SS 80X40X200	20	2900	80x40	200	Q	0	25	30	40	50	55	65	54
						H	54	52	50	45	40	35	0	
11	SS 80X50X200	25	2900	80x50	200	Q	0	8	16	20	25	30	35	62
						H	62	50	40	30	20	10	0	

Note:

1. Bareshaft Pumps are available from 1 to 25HP.
2. Monoblock Pumps are available upto 5HP.
3. Self Priming Pumps are available upto 2HP.

SUBMERSIBLE SEWAGE & DEWATERING PUMP



AES SERIES

VORTEX (V)



SEMI OPEN CHANNEL TYPE



SEMI OPEN (DOUBLE VANE)



DRAINAGE



IMPELLER WITH GRINDER & CUTTER



SPECIFICATIONS

CAPACITY RANGE 40 LPM TO 2300 LPM

DISCHARGE HEAD MAX 45 METER

SOLID HANDLING 8 MM TO 30 MM

M.O.C:

All wetter parts for Sewage Pump can be offered in SS-316 & CI.

All wetter parts for Dewatering Pump are offered in Aluminium.

SALIENT FEATURES

Impellers with Free Passage of Particles in Suspension.

Double Mechanical Seal.

Portable Design.

Available with Float Switch to Protect Dry run.

And Automatic Start & Stop.



AED SERIES

APPLICATIONS

Specially Designed for the drainage of Sewage water/ Septic tanks, Drainage of dirty water or in small purifying installations, Portable Submersible Pumps are most economical and reliable to handle water with suspended solid to de-water, storm water, construction site etc.

LIQUID HANDLE

Sewage, Effluent Treatment, Waste Water, Muddy Water, Fresh Water, Ash Water & Polluted Liquids.

SUBMERSIBLE SEWAGE PUMP TABLE

MODEL	OUTLET SIZE IN INCHES	KW	HP	PH	SEMI OPEN IMPELLER			VORTEX IMPELLER		
					HEAD IN METER (MAX)	DISCHARGE IN LPM (MAX)	SOLID HANDLING IN MM	HEAD IN METER (MAX)	DISCHARGE IN LPM (MAX)	SOLID HANDLING IN MM
AES-1115L	1 ½	0.75	1	1	10	260	8	NA	NA	NA
AES-1315L	1 ½	0.75	1	3	10	260	8	NA	NA	NA
AES-132	2	0.75	1	3	11	350	10	NA	NA	NA
AES-112F	2	0.75	1	1	10	400	10	NA	NA	NA
AES-1512F	2	1.1	1.5	1	14	450	12	8	340	40
AES-1532	2	1.1	1.5	3	14	450	12	8	340	40
AES-212F	2	1.5	2	1	16	500	12	9	400	40
AES-232	2	1.5	2	3	16	500	12	9	400	40
AES-333	3	2.2	3	3	22	600	15	11	450	50
AES-534	4	3.7	5	3	25	1100	25	15	950	60
AES-7534	4	5.5	7.5	3	27	1800	25	16	1300	60
AES-1034	4	7.5	10	3	30	2000	25	16.5	1480	60
					DRAINAGE IMPELLER					
AES-15034	4	11.2	15	3	45	2300	30			

SUBMERSIBLE DEWATERING PUMP TABLE

MODEL	OUTLET SIZE IN INCHES	KW	HP	PH	DRAINAGE IMPELLER		
					HEAD IN METERS (MAX)	DISCHARGE IN LPM (MAX)	SOLID HANDLING (MM)
AED-100S	1.5	0.75	1	1	11	320	3
AED-150S	2	1.1	1.5	1	16	450	5
AED-150T	2	1.1	1.5	3	16	450	5
AED-200S	2	1.5	2	1	16	500	5
AED-200T	2	1.5	2	3	16	500	5
AED-300T	3	2.2	3	3	22	750	8
AED-500T	3	3.7	5	3	22	1000	10
AED-500T	4	3.7	5	3	27	1320	12
AED-750T	4	5.5	7.5	3	29	1700	12
AED-1000T	4	7.5	10	3	31	1900	12
AED-1500T(L)	6	11.2	15	3	33	4200	12
AED-1500T(H)	4	11.2	15	3	65	1000	12
AED-2500T	6	18.6	25	3	38	6000	12

METERING & DOSING PUMP



SPECIFICATIONS

Flow: Max 5 m³/hr
Pressure: 200 kg/cm²
Solid Size: Max 5 mm
Solid%: Max 25%



APPLICATION

1. Waste Water and Effluent Treatment: Dosing of Alum and Hydro Chloride of ETP.
2. Sugar Industries: Anti Scaling Dosing, Phosphoric Acid, Flocculent.
3. Mineral Processing: Dosing of Flocculent and Catalyst.
4. Chemical Industries: Metering of Resin and Catalysts.
5. Pharmaceutical Industries- Coating of Tablets, ETP
6. Oil Industries: Odorizing of Natural Gas, Methanol, butane, Propane, Injection.
7. Paper Industries: Melamine and resin addition, chlorine dosing for bleaching and many more.

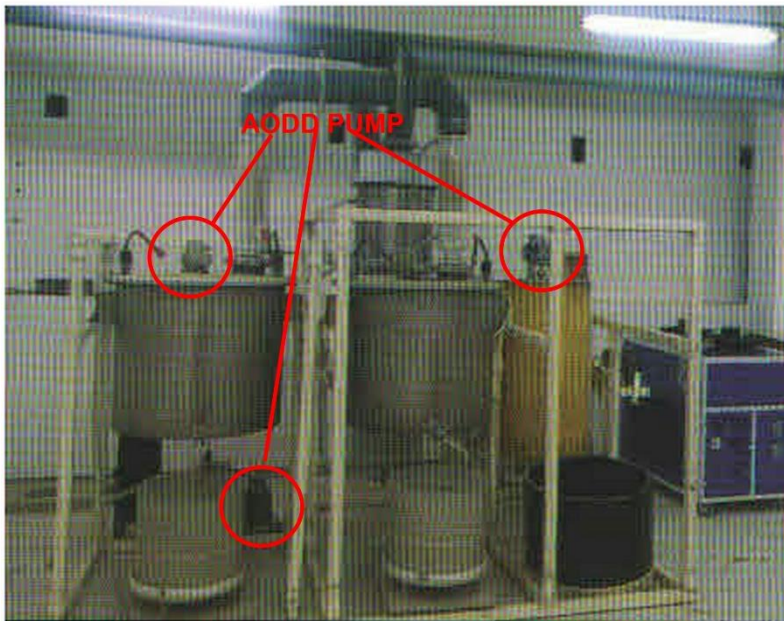
SALIENT FEATURES

1. High Volumetric Efficiency of 94%
2. High Dosing Accuracy of $\pm 1\%$
3. Flow Variation Possible From 10-100%
4. Linear relation between control setting and stroke length
5. Positive Feedback Crank Mechanism
6. Double Diaphragm Design

DOSING PUMP TABLE

MODEL	PL DIA MM	Pr Kg/cm ²	Cap LPH	Suc x Dis MM
MED-05	NA	4	0-6	6/8
MED-20	NA	4	0-20	6/8
PD-I	6-48	10-80	2.8-200	8-15
PD-II	20-67	8-99	68-761	15-40
PD-III	12-100	9-230	48-2968	15-40
PD-IV	20-120	10-200	204-7326	15-50
MDI-I	Diaphragm Type	4	0-200	8-15
MDI-II	Diaphragm Type	4	0-500	15-25
MDI-III	Diaphragm Type	4	0-1000	40
HYD I S1	6-44	12-80	2.8-150	8-15
HYD II S1	20-36	25-99	68-200	15-25
HYD II S2	20-54	13-99	68-500	15-25
HYD III S2	54-62	10-31	658-866	15-40
HYD III S3	20-100	9-200	119-2968	15-50
HYD IV S3	20-100	15-200	204-5089	15-80

Note:**PD = Plunger Type Dosing Pump (SS)****MDI= Mechanical Diaphragm Type Dosing Pump (PP & SS)****HYD= Hydraulic Diaphragm Type Dosing Pump (PP/SS/Teflon)****Soleniod Dosing Pump (PP/SS/Teflon)****1. MED-05 (0-6LPH) @ 4Bar****2. MED-20 (0-20LPH) @ 4Bar**



**SUBMERSIBLE
AERATOR PUMP**

AODD PUMP USED IN 50 KG GOLD REFINING UNIT





AUTHORIZED DEALER



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