RIVA TECHNOLOGIES

602, Pranav, Plot No 10, Eksar Road, Borivali (West), Mumbai - 400091
Tel:- +91-98924 95842, Email:- sales.rivatechnologies@gmail.com

COMPANY PROFILE

ABOUT US

Established by a team of young professionals, we have a reputation in the market for manufacturing a wide range of qualitative industrial pumps. We are equipped with sophisticated machinery that enable in constant research work to ensure our pumps meeting the needs of complex industrial operations. Riva Technologies, ever since its establishment in 2005, has been considered as a leading manufacturer, supplier and exporter of chemical process pumps.

OUR TEAM

We possess a team of experienced, knowledgeable and skilled professionals for manning the various aspects; involved processes allow us to deliver pumps both in standard and customized finishes as per the requirements of our clients.

MANUFACTURING UNIT

Our manufacturing unit is well equipped with modern sophisticated and advanced technology machinery that enables us to deliver durable and high quality pumps. The effective use of modern technologies, high domain expertise in our production procedures and use of machines that comply with international standards help us to deliver high performance oriented pumps. Major international standards are followed such as ISO, DIN, API, etc.

TESTING AND INSPECTION FACILITIES

We have in-house test bed at factory for running performance of each and every assembled pump. Every pump is tested with hydraulic pressure for mechanical seal, volute casing and casing cover. Running performance with suitable motor for discharge head, flow power consumption, RPM, Vibration Noise level and temperature of bearing housing and leakage of mechanical seal.

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YOUR REQUIREMENT

We have a skilled team of personnel who support for all the issues you face in factories and existing production processes.

OUR APPROACH

We have highly sophisticated machinery with domain expertise staff and latest technology facilities which help us deliver quality pumps just as per your requirement.

WE ASSURE YOU

Quality & Durable products, advanced technology for production, Timely Delivery, Prompt after sales services, High levels of Customer satisfaction.

Research & Development

Our team of Domain Experts are constantly exgaged in innovating, researching and developing quality Pumps.

PRODUCTS MANUFACTURED BY RIVA TECHNOLOGIES

1. Centrifugal Chemical Process Pumps (Metallic construction)
2. PP & PVDF Pumps.
3. Sealless Magnetic Driven Pumps.
4. Air Operated Double Diaphragm Pumps (AODD Pumps)
5. Gear / Lobe Pumps.
6. Screw Pumps.
7. Vertical Extended (Long) Shaft Pumps.
8. Thermic Fluid Hot Oil Pumps

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INDUSTRIES WE SERVE

- Chemicals
- Petrochemicals
- Fertilizer Plant
- Dairy Plant
- Caustic Plant
- Steel Industries
- Drugs & Pharmaceuticals
- Paper & Pulp Industry
- Thermal Power Plant
- Refineries
- Effluent / Sewage Treatment Plant
- Scrubber Unit
- Cooling Tower
- Sugar / Molasses Industry
- Food Processing
- Cold Storage
- Water Treatment Plant
- Dyes & Pigment Plant
- Solvent Industry
- Paint Industry
- Chilling Plant

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RIVA TECHNOLOGIES PUMPS are designed for

- Zero Leakage
- Low Capital Cost
- Ease of Application
- Low Running Cost
- Minimum Spares Holding
- Minimum Downtime
- Fast Maintenance
- Maximizes on-line Process Time

FEW PICTURES OF INITIAL STAGES OF RIVA TECHNOLOGIES

CNC Machines used for Manufacturing of Pumps

Certificate of Registration

This is to certify that the

RIVA TECHNOLOGIES

602, PRANAV, PLOT NO. 10, EKSAR ROAD, BORIVALI WEST, MUMBAI 400091, INDIA

has been independently assessed by QVA and is compliance with the requirement of the standard

ISO 9001:2015

Quality Management System

For the following scope of activities

MANUFACTURING OF INDUSTRIAL PUMPS

Certificate Number: QVA-RLHV-23-181836

To verify this certificate please visit at www.gaafs.us

Date of Certification	18TH January 2023
Issuance Date	18TH January 2023
1st Surveillance Due	17TH January 2024
2nd Surveillance Due	17TH January 2025
Re-Certificate Due	17TH January 2026

Registered

Authorized Signatory

QVA Certification
CAB Address : Maryland Avenue, SW Washington, D.C. 20202
Validity of this certificate is subject to annual surveillance audits to be done successfully
This certificate is the property of QVA Certification and shall be returned immediately on request
QVA Certification is an independent Systems Products and Personal assessment Body, QVA Certification is a accredited by GAAFS.US

भारत सरकार
Government of India
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Ministry of Micro, Small and Medium Enterprises

सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO, SMALL & MEDIUM ENTERPRISES

UDYAM REGISTRATION CERTIFICATE

UDYAM REGISTRATION NUMBER: UDYAM-MH-19-0188828

NAME OF ENTERPRISE: RIVA TECHNOLOGIES

TYPE OF ENTERPRISE *

SNo.	Classification Year	Enterprise Type	Classification Date
1	2022-23	Micro	19/01/2023

MAJOR ACTIVITY: MANUFACTURING

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S)

S.No.	Name of Unit(s)
1	RIVA TECHNOLOGIES

OFFICAL ADDRESS OF ENTERPRISE

Flat/Door/Block No.	604, Pranav	Name of Premises/ Building	Plot No 10
Village/Town	Borivali	Block	West
Road/Street/Lane	Eksar Road	City	Borivali West
State	MAHARASHTRA	District	MUMBAI , Pin 400091
Mobile	9892495842	Email:	sales.rivatechnologies@gmail.com

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 01/07/2017

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 01/11/2016

NATIONAL INDUSTRY CLASSIFICATION CODE(S)

SNo.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
1	32 - Other manufacturing	3290 - Other manufacturing n.e.c.	32909 - Manufacture of other articles n.e.c.	Manufacturing

DATE OF UDYAM REGISTRATION: 19/01/2023

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

Disclaimer: This is computer generated statement, no signature required. Printed from https://udyamregistration.gov.in & Date of printing:- 20/01/2023

For any assistance, you may contact:

1. District Industries Centre: MUMBAI CITY (MAHARASHTRA)

2. MSME-DFO: MUMBAI (MAHARASHTRA)

RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS (SS)

PMP 150 (SS)

PMP 300-I (SS)

PMP 1000 (SS)

S.S. SERIES SEALLESS

Explosion-proof type centrifugal pump in stainless steel, is now introduced in response to the process industry's growing concern for the environment, the safety of plant personnel, and the high ongoing cost of mechanical seal maintenance. It is an ideal pump for use in installations handling toxic, noxious, inflammable or corrosive liquids such as NOx or Freon gas where leakage to atmosphere cannot be tolerated. This sealless process pump is also applicable to slurry or the liquid of temperature up to 200^{0}C. SS Pumps are also available in S.S. 304, S.S. 316, S.S. 316–L, Alloy-20, Hastelloy- B, C, Monel, and Titanium.

Sealless

Pumpage is hermetically sealed in a thick, rugged stainless steel pump casing. Magnetically driven, sealless pump construction assures you of leak freeness. The pump never spoils surroundings, but maintains safe and clean environment.

Drastically Saves Maintenance Costs.

Silicon Carbide wet bearings, the core of pump, extensively reduce wear and corrosion, and provide extremely long life. (interchangeable front and rear) It allows customers to hold a minimum number of parts, and spares them many a maintenance work for a long period of time. Thanks to its Back Pull-out design and slip-fit construction, Precision's Pumps are easy to disassemble and reassemble on-site without special tools or skills required. Easy of maintenance extensively curtails the relative costs and resolves the shortage problem of plant manpower.

EXTREMELY SAFE PUMP DESIGN

The pump is explosion-Proof design. Silicon Carbide bearings, the only frictional parts in wet end, eliminate the possibility of jamming by rotational contact. Pump and motor are separately positioned so that leak of pumpage, if any, never affects electrical equipment. Optional high-pressure secondary containment is available to eliminate pumpage leak through corroded rear casing. Pump and rear casing are completely drainable through a casing drain plug.

APPLICATION

Seal-less features make these pumps perfect for environments subject to federal regulations

- Chemical
- Pharmaceutical
- Textile Processing & Dye Baths
- Electroplating
- Various Metal Recovery System
- Metal Finishing
- Colour Photo Processing
- T. V. Tube Processing
- Food Processing: Dairies, Soft Drinks, Beverages
- X-Ray Film
- I.C. Photo Engraving Process/PCB Plants
- Refrigeration & Chilling Plants
- Water Treatment Plants
- Galvanizing/Anodizing Plating Plants
- Etching/Spark Erosion Machines & many more

RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS (SS)

PMP 50-I (SS)

PMP 50-II (SS)

PMP 85 (SS)

PMP 115 (SS)

PMP 150-I (SS)

PMP 150-II (SS)

PMP 300-I (SS)

PMP 300-II (SS)

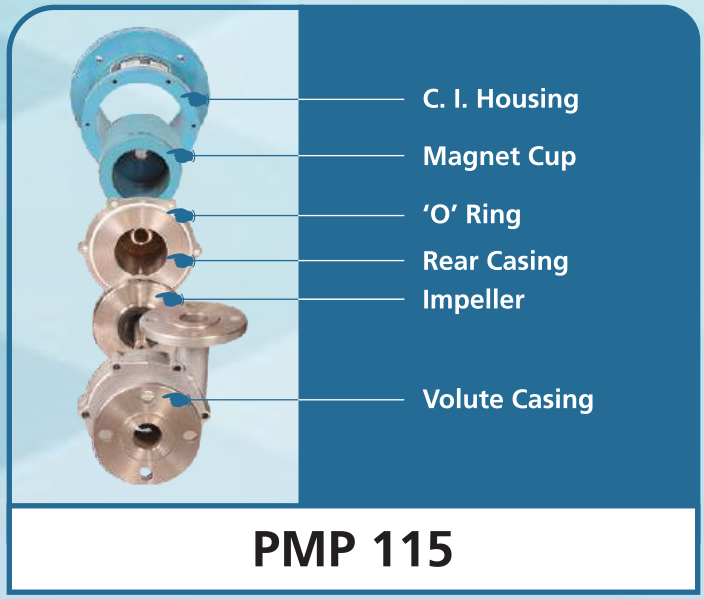
PMP 520 (SS)

PMP 555 (SS)

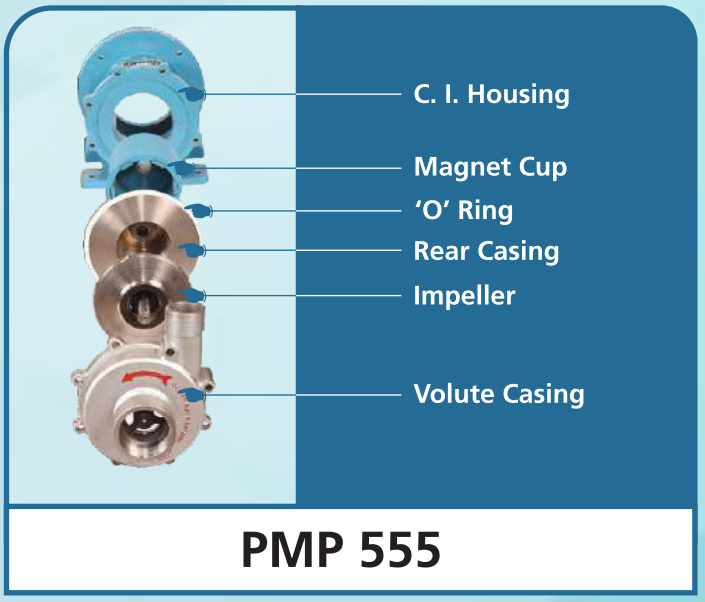
PMP 750 (SS)

PMP 1000 (SS)

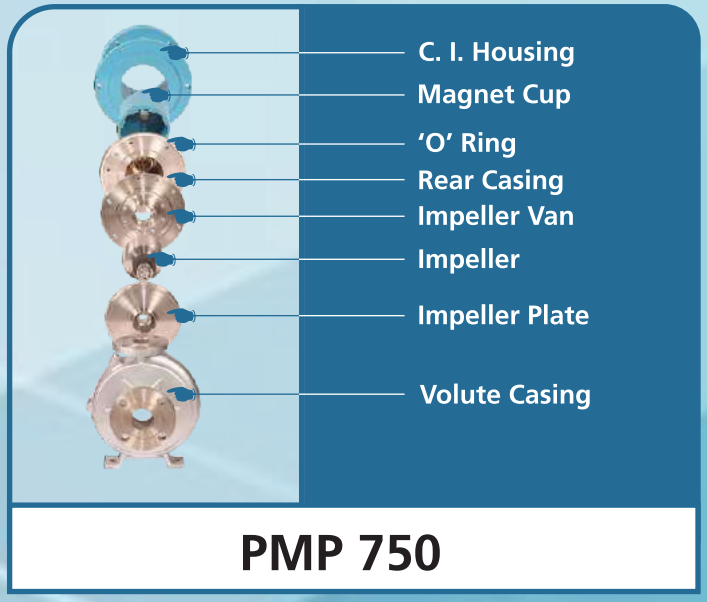
RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS (SS)



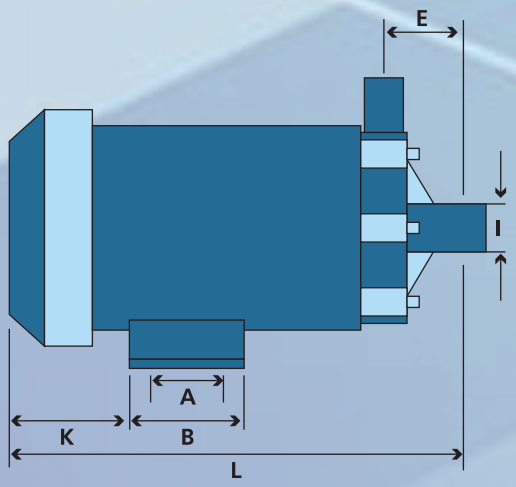
PMP 115

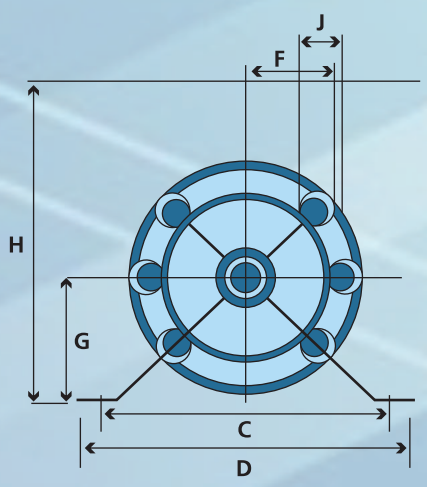


PMP 555



PMP 750



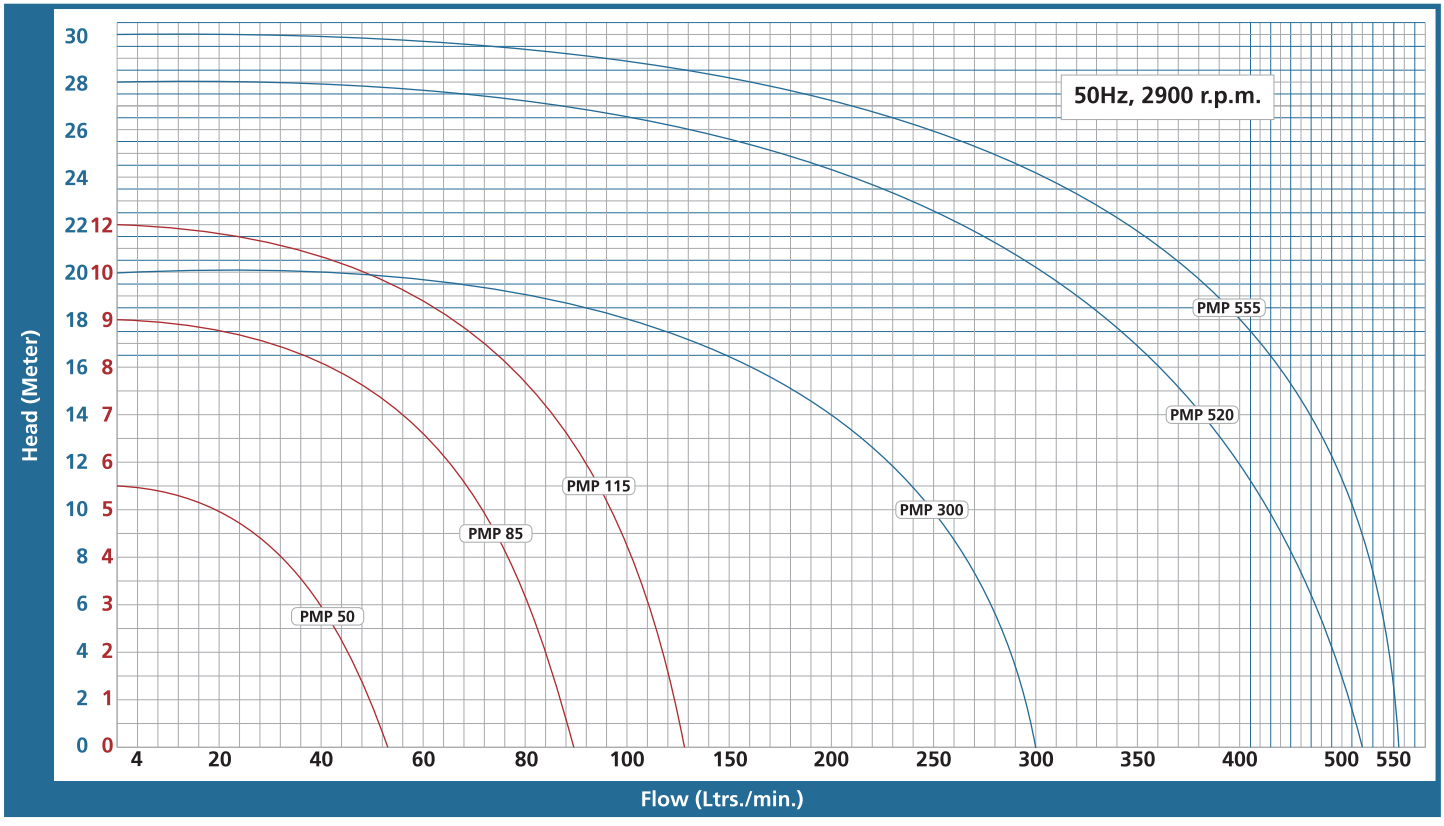


RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS (SS)

Dimensions in mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	L
PMP 50	40	60	96	116	58	32	58	135	18	12	60	295
PMP 85	55	65	115	142	85	35	80	200	30	25	115	335
PMP 115	55	65	115	142	85	35	80	195	30	25	125	372
PMP 150	100	125	130	75	90	50	103	210	38	25	80	480
PMP 300-I	0	60	100	144	102	46	118	260	50	38	185	515
PMP 300-II	0	60	100	144	102	46	118	260	50	38	185	515
PMP 520	205	105	202	245	95	61	120	270	50	40	230	610
PMP 555	205	245	203	250	126	50	100	275	50	40	230	675
PMP 750	305	340	190	340	170	45	155	395	50	40	135	675
PMP 1000	320	350	210	360	105	195	105	380	80	50	135	725

Expected Performance Curves



RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS (SS)

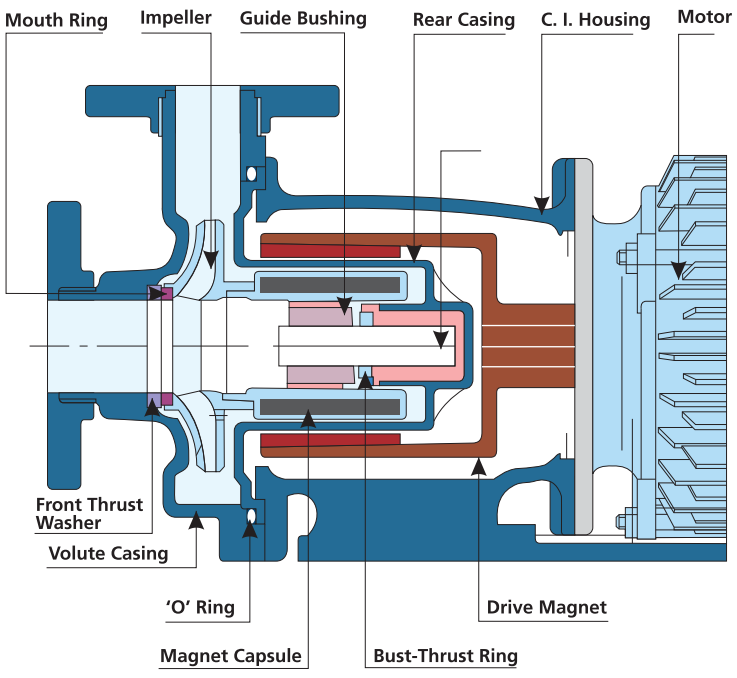
PUMP SPECIFICATION

Pump Model	Connection		Max Flow (Ltrs/Min.)	Max Head (Meter)	Std. Duty Point Q/H	Sp. Gr. Limit	Motor/Kw	Phase ϕ
	Suction	Discharge						
PMP 50	3/4" BSP Female	1/2" BSP Male	54	4.5	30LPM / 3 Mtrs	1.0	0.18 KW	1ϕ
PMP 85	1 1/4" BSP Female	1" BSP Male	85	9.5	40 LPM / 3 Mtrs	1.0	0.37 KW	3ϕ
PMP 115	1 1/4" BSP Female	1" BSP Male	100	11.5	50 LPM / 3 Mtrs	1.1	0.37 KW	3ϕ
PMP 150	1 1/2" Female	1" Male	150	14.5	50 LPM / 10 Mtrs	1.1	0.75 KW	3ϕ
PMP 300-I	2" BSP Female	1 1/2" BSP Male	280	20	12 M^3 / hr.10 Mtrs	1.3	1.1 KW	3ϕ
PMP 300-II	2" BSP Female	1 1/2" BSP Male	320	22	12 M^3 / hr. 15 Mtrs	1.3	1.5 KW	3ϕ
PMP 520	2" BSP Female	1 1/2" BSP Male	520	26	12 M^3 / hr. 20 Mtrs	1.4	2.2 KW	3ϕ
PMP 555	2" BSP Female	1 1/2" BSP Male	660	30	20 M^3 / hr. 25 Mtrs	1.5	3.7 KW	3ϕ
PMP 750	2" NPT Female	1 1/2" NPT Male	750	40	20 M^3 / hr. 30 Mtrs	1.6	5.5 KW	3ϕ
PMP 1000	3" NPT Female	2" NPT Male	1000	50	30 M^3 / hr. 35 Mtrs	1.6	7.5 KW	3ϕ

• All pump models are available in flame proof motor also.

CONSTRUCTION

Pump Parts	M.O.C
Volute Casing/ Impeller/Rear Casing	SS - 316/SS - 316L
Shaft	SS - 316/SS - 316L/ Silicon Carbide/ Titanium/Hastalloy/Monel
Shaft Sleeve	Silicon Carbide
Bush Bearing	GFR-PTFE/Carbon/Silicon Carbide
Mouth Ring	Carbon/Tungsten Carbide/ Silicon Carbide
Front & Rear Thrust Washer	Tungsten Carbide/Silicon Carbide
Gasket	PTFE/Grafoil



RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS

PMP 300 (GFR-PP)

PMP 300 (PVDF)

PMP 520 (GFR-PP)

ADVANCED MAGNETIC TECHNOLOGY

State-of-the-art magnetic technology provides a safe and reliable pump for difficult applications. A magnetic coupling consists of two magnet assemblies. Ones is the outer assembly (the drive magnet) and other is the inner assembly (the driven magnet). The outer assembly is connected to a motor and the inner assembly is directly attached to a pump impeller. When load is applied, the coupling effects angularly and magnets create a force which is used to transfer torque from the motor to the impeller. This permanent magnet coupling creates neither slippage nor induction current during rotation. There is no energy loss in the permanent - permanent magnet coupling. Riva pumps have an inner magnet assembly which is directly molded in to the impeller.

ENGINEERED FOR ENVIRONMENT SAFETY

Riva Technologies offers magnetic drive chemical pumps which safety handle hazardous, highly corrosive, explosive and toxic chemicals. They provide safe, leak-proof service because the magnetic coupling eliminates the need for traditional sealing methods, such as mechanical seals or gland packings which is the main source of leakage problems on pumps. As a result, down time and maintenance cost are greatly reduced and there are no warn seals to replace.

These pumps are available in **GFR-PP** and **PVDF** for maximum chemical resistance.

Magnetic drive chemical process pumps offer many benefits.

- Minimizes exposure of your personnel to hazardous chemicals.
- Eliminates contacting seal faces which are prone to wear and leakage.
- Provides superior corrosion resistance.
- Eliminates costly seal flush systems required on all pumps with double mechanical seals.
- Reduces downtime and maintenance costs through extended service.
- Eliminates alignment problems inherent in direct-coupled units.
- They are ideal for vacuum service and transfer of expensive, toxic, radio active, hazardous and corrosive chemicals.

APPLICATION

Seal-less features make these pumps perfect for environments subject to federal regulations

- Chemical
- Pharmaceutical
- Textile Processing & Dye Baths
- Electroplating
- Various Metal Recovery System
- Metal Finishing
- Colour Photo Processing
- T. V. Tube Processing
- Food Processing: Dairies, Soft Drinks, Beverages
- X-Ray Film
- I.C. Photo Engraving Process/PCB Plants
- Refrigeration & Chilling Plants
- Water Treatment Plants
- Galvanizing/Anodizing Plating Plants
- Etching/Spark Erosion Machines
- Gold & Silver Refinery Process
- Battery Manufacturing Process
- Oil Refinery/Membrane Systems

RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS

PMP 15 (PP)

PMP 30 (PP)

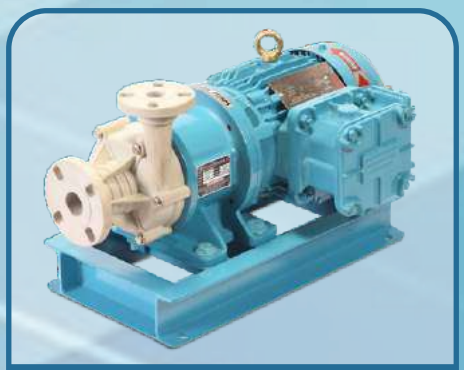
PMP 50 (PP)

PMP 85 (PP)

PMP 115 (PP)

PMP 150 (PP)

PMP 115 (PVDF)



PMP 300 (GFR-PP)

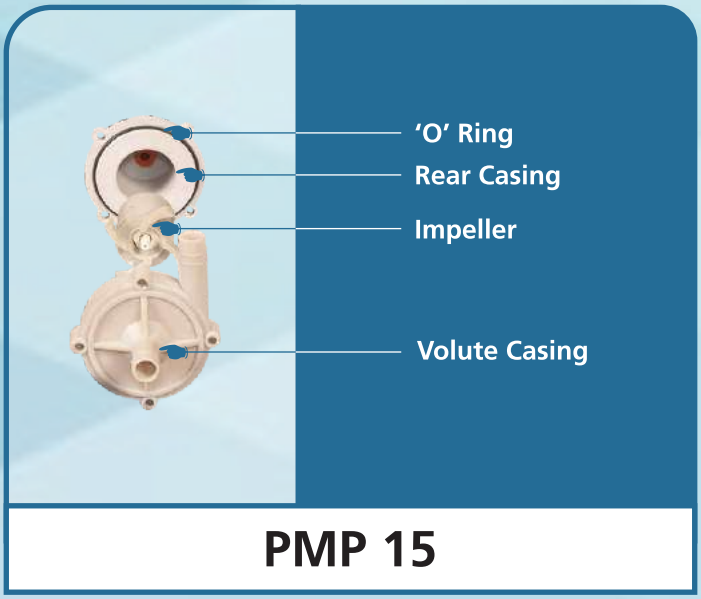
PMP 520 (GFR-PP)

PMP 300 (PVDF)

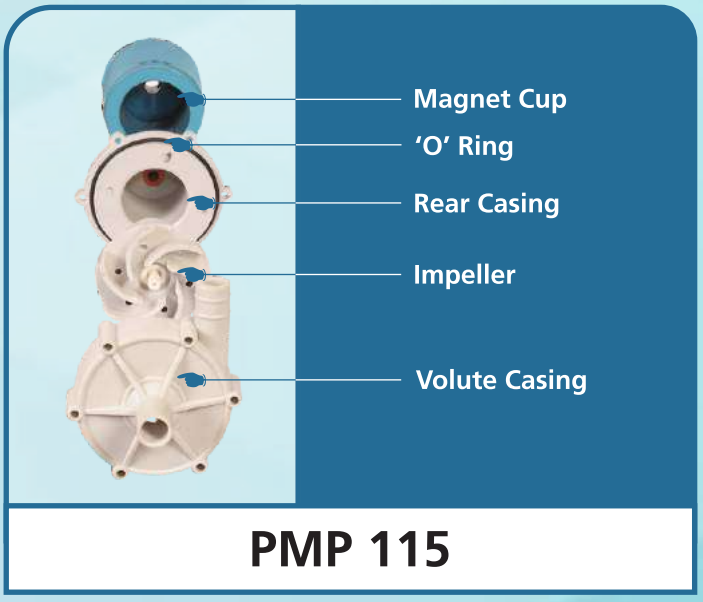
PMP 520 (PVDF)

PMP 555 (PVDF)

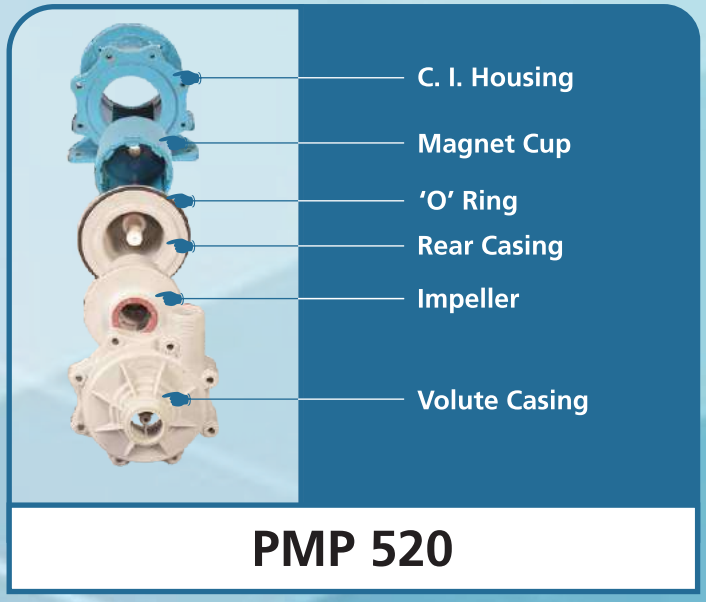
RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS



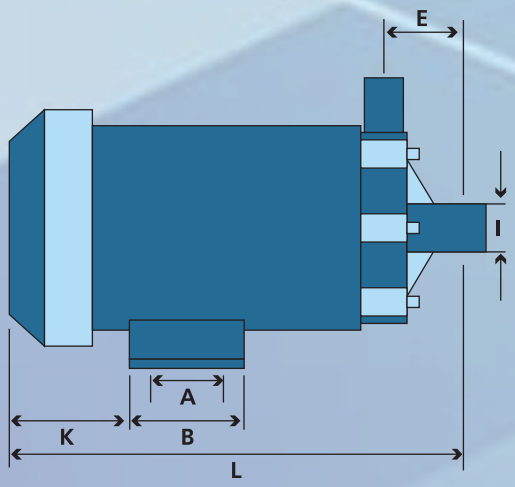
PMP 15

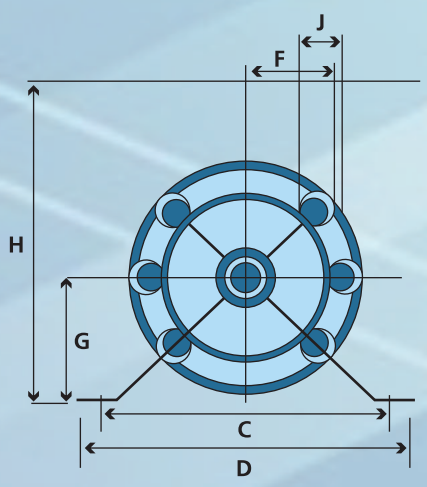


PMP 115



PMP 520



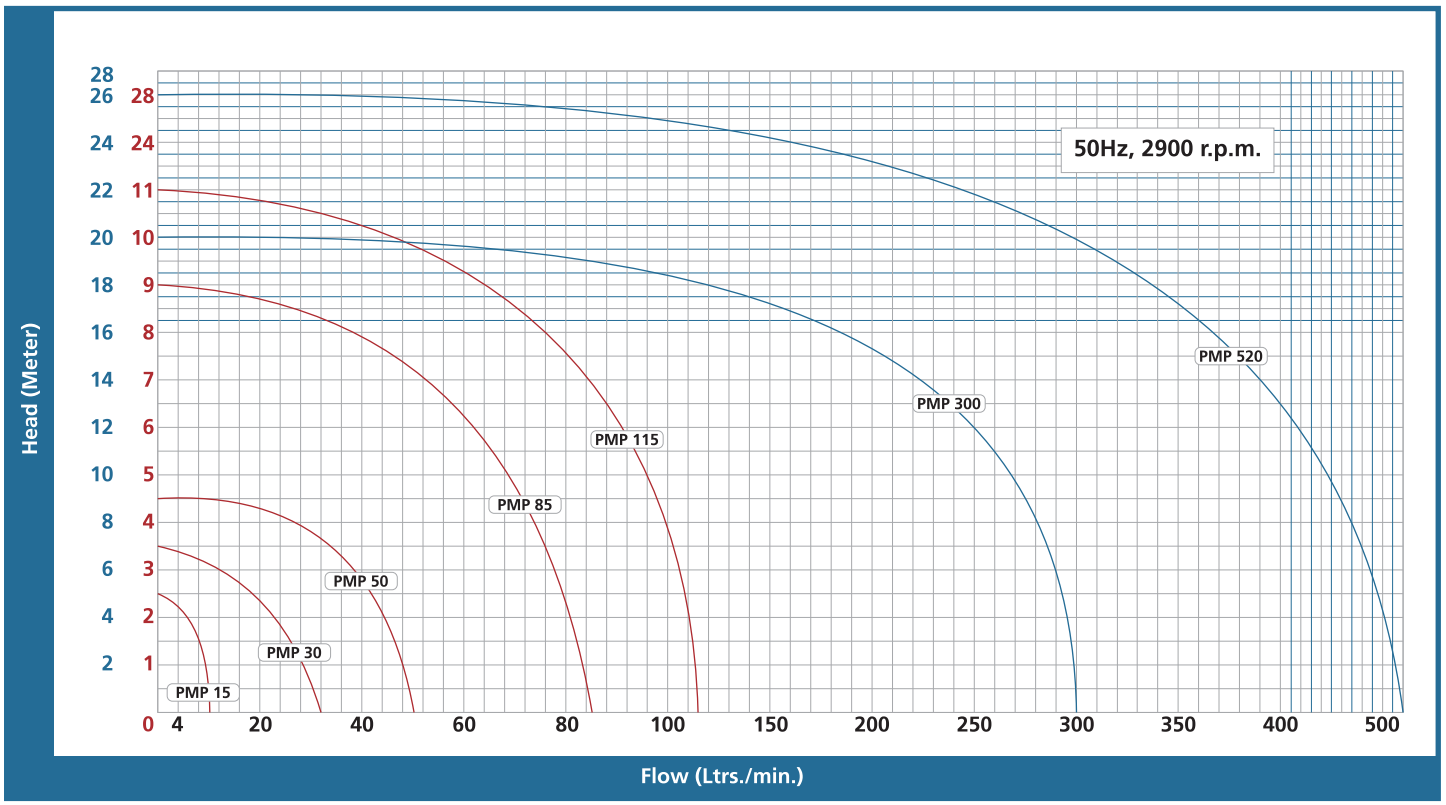


RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS

Dimensions in mm

Model No.	A	B	C	D	E	F	G	H	I	J	K	L
PMP 15	40	60	96	116	40	28	55	110	14	14	45	225
PMP 30	40	60	96	116	38	30	56	115	18	18	45	235
PMP 50	40	60	96	116	54	44	56	124	20	20	60	290
PMP 85	55	65	115	142	54	58	81	170	26	26	85	302
PMP 115	55	65	115	142	64	58	81	170	26	26	102	350
PMP 150	65	85	125	145	75	55	90	200	38	25	105	390
PMP 300	165	60	100	144	80	58	81	170	40	32	102	350
PMP 520	205	105	202	245	95	61	120	270	50	40	230	610
PMP 555	300	330	300	330	90	65	140	355	42	35	280	610

General Performance Curves



RIVA TECHNOLOGIES
MAGNETIC CHEMICAL PUMPS

PUMP SPECIFICATION

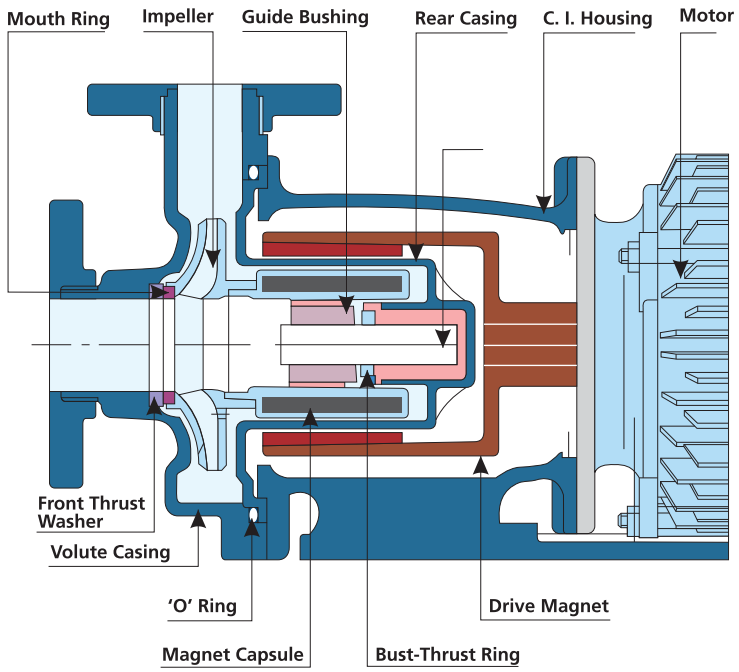
Pump Model	Connection		Max Flow (Ltrs/Min.)	Max Head (Meter)	Std. Duty Point Q/H	Sp. Gr. Limit	Motor/KW	Phase ϕ
	Suction	Discharge						
PMP 15	14mm Hose Type	14mm Connection	15	2.5	8 LPM / 2 Mtrs	1.0	34 Watt	1ϕ
PMP 30	18mm Hose Type	18mm Connection	30	3.4	22 LPM / 2 Mtrs	1.0	46 Watt	1ϕ
PMP 50	20mm Hose Type	20mm Connection	50	4.5	30 LPM /3 Mtrs	1.0	65 Watt	1ϕ
PMP 85	26mm Hose Type	26mm Connection	85	9.5	40 LPM / 3 Mtrs	1.1	0.37 KW	3ϕ
PMP 115	26mm Hose Type	26mm Connection	100	11.5	50 LPM / 7 Mtrs	1.2	0.37 KW	3ϕ
PMP 150	1 1/2" Hose Type	1 Connection	150	14.5	50 LPM / 10 Mtrs	1.2	0.75 KW	3ϕ
PMP 300	1 1/2" Hose Type	1 1/4 " Connection	280	20	12 M^3 / hr. 10Mtrs	1.3	1.1 KW	3ϕ
PMP 520	2" Hose Type	1 1/2" NPT Male	520	26	12 M^3 / hr. 20Mtrs	1.3	2.2 KW	3ϕ
PMP 555	2" Hose Type	1 1/2" NPT Male	550	32	21 M^3 / hr. 25Mtrs	1.3	3.7 KW	3ϕ

- The Specific gravity limit indicated above is the value of the max. shaft power level and the liquid viscosity of 1 mPa*s (1cP).
- Liquid temperature range: 0 to 120° C.
- Slurry: inquire to your nearest Precision representative or dealer.
- Flange type is available on request.
- All pump models are available in flame proof motor also.
- PMP 85 & PMP 115 are available in3ϕ & 1ϕ also.

CONSTRUCTION

Pump Parts	GF	VF
Volute Casing	GFR-PP	PVDF
Impeller	GFR-PP	PVDF
Rear Casing	GFR-PP	PVDF
'O' Ring	FKM	FKM
Shaft	Al_2O_3 99, 7%	Al_2O_3 99, 7%
Guide Bushing	GFR-PTFE	CFR-PTFE
Mouth Ring	GFR-PTFE	CFR-PTFE
Front Thrust Washer	Al_2O_3 99, 7%	Al_2O_3 99, 7%
Bust-Thrust Bearing	Al_2O_3 99, 7%	Al_2O_3 99, 7%

Material label in this catalog	
GFR-PP	Glass fibre reinforced Polypropylene
PVDF	Polyvinilidenefluoride
GFR-PTFE	Glass fibre reinforced Polytetrafluoroethylene
CFR-PTFE	Carbon fibre filled Polytetrafluoroethylene
$Al_2O_3$99,7%	Alumina Ceramic at 99, 7% (high purity)
FKM	Fluorinated elastomer (p.e.: VITON®)
EPDM	Ethylene - Propylene rubber
FEP	Fluorinated, Ethylene - Propylene copolymer



Riva Technologies

PP PUMP SERIES

PERFORMANCE CHART

MODEL NO .	SUCTION IN MM	DELIVERY IN MM	HP	RPM	HEAD IN METER						IMPELLER DIA IN MM
					FLOW IN M^3 / HR						
PP-100	25	25	01	2900	12 00	10 02	09 05	07 08	06 11	04 13	100
PP-120	35	32	02	2900	17 00	15 05	13 10	11 13	07 19	05 22	120
PP-130	40	40	03	2900	23 00	20 08	18 12	15 18	12 24	08 25	130
PP-130H	40	40	03	2900	28 00	25 05	21 10	17 16	14 21	09 26	145
PP-50 R	40	40	02	1440	12 00	11 05	10 10	09 15	08 20	07 25	195
PP-50	75	40	03	1440	15 00	13 05	12 15	11 25	10 32	05 35	205
PP-55	75	50	05	1440	16 00	15 05	14 16	12 35	10 45	06 50	205
PP-160 RL	40	40	02	2900	16 00	14 04	12 07	10 09	08 11	06 13	140
PP-160 RL	40	40	03	2900	25 00	21 05	20 10	15 15	10 25	05 27	150
PP-160	75	40	05	2900	30 00	27 05	25 10	20 20	15 30	10 35	160
PP-170	75	50	7.5	2900	35 00	32 10	25 30	20 40	15 45	10 56	160
PP-40	50	40	12.5	2900	50 00	45 10	40 25	35 30	30 35	25 40	190
PP-500 L	50	50	03	1440	17 00	15 15	13 25	10 35	06 45	04 51	220
PP-500 H	50	50	15	2900	64 00	60 20	58 35	65 45	50 52	45 60	210

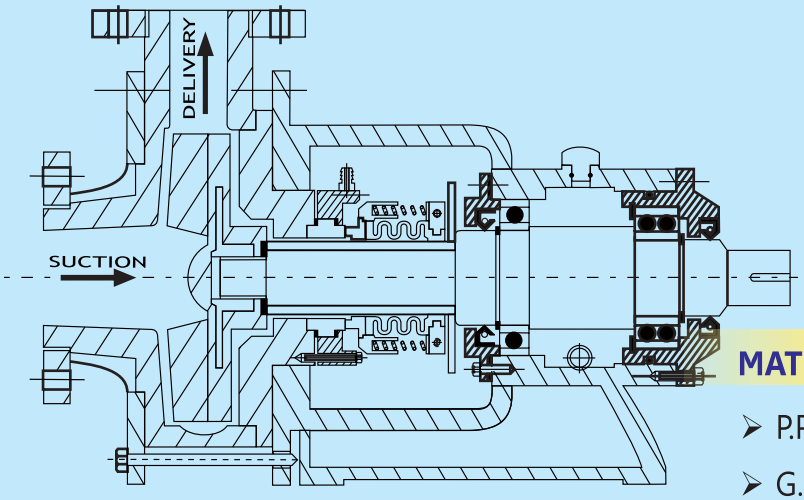
Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.

NON METALLIC CENTRIFUGAL PUMP (LCP SERIES)

The offered range of molded pumps with extra wall thickness and pressurize molding process for free porosity and blow holes are available with semi open impeller, The offered range of molded pumps is designed utilizing high grade raw material and modern techniques in conformation with the highest quality norms and standards.

APPLICATIONS :

- Chemical processing upto 80 Deg
- Organic/in Organic Chemical
- Air conditioning
- Effluent
- Electro plating
- Highly corrosive acid transfer
- Dyes and pigments
- Sprinkle systems
- Pickling plant
- Scrubber unit
- Water treatment
- Solvents unloading
- Transfer of Liquid



OPERATING RANGE :

Capacity	Up to 300 m3/Hr
Head	Up to 80 Meters
Speed	1450 to 2850 RPM
Pump Size-DN	19mm To 150mm
Temp	Up to 85° C

MATERIAL OF CONSTRUCTION:

- P.P (POLYPROPYLENE)
- G.F.P.P (GLASS FILLED POLYPROPYLENE)
- UHMW-HDPE (ULTRA HIGH MOLECULAR WEIGHT-HIGH DENSITY POLYTHENE EMULSION)

Riva Technologies

PVDF PUMP SERIES

PVDF PUMPS

Application

Water treatment plant, Effluent treatment plant, Electro plating, Pickling & Steel rolling mills.
Excellent for transfer and loading - unloading like HCL, Sulphuric Acid / Alkali, Caustic liquid.Scrubbing of corrosive gases like NH3, CO2, SO3, SO2, I2, F2, Br2, Cl2, etc...
For handling liquids In various industries like Textile, Paper, Cellulose, Sugar, Steel, Food, Having wide temperature ranges of Materials, etc...
Ideal for circulation of chemical in metal finishing industry.
Natural choice for pickling line & scrubber in steel plants.
High capacity transfer pump, filter press for Dyes & Chemicals, De-scaling, Oil & other fuels.

Features :

Pump are made of soild PVDF components.
There are no lined components.
Designed to suit extremely corrosive duties in the Process and Chemical industries.
Suitable for continuous service.
Self venting type casing.
Dynamically and hydraulically balanced impeller with aerodynamic profile vanes.
Pump casing is provided with external metal ring for construction stability.
Temp. range is up to 150° C

Material Introduction

The fluorinated polymers are widely appreciated for their remarkable chemical inertness and their excellent resistance to aging.
Polyvinylidene fluoride offers the specific advantage of easy processing in accordance with all the conventional methods used in the plastic industry.
PVDF, polymerized according to its own special process, offers a high degree of crystalline to that by other processes, resulting among other things in superior thermo mechanical properties.
Chemically inert to most acids, aliphatic and aromatic organic compounds, chlorinated solvents, alcohols, etc.

Material of Construction

Casing, Impeller, Back Plate	:	SOLID PVDF
Shaft Sleeve	:	GRP / Ceramic / ALLOY-20 / Hast Alloy B/C
Bearing Bracket	:	C.I. GRFG-26
Shaft	:	SS / EN 9
Bearings	:	Double ball bearing

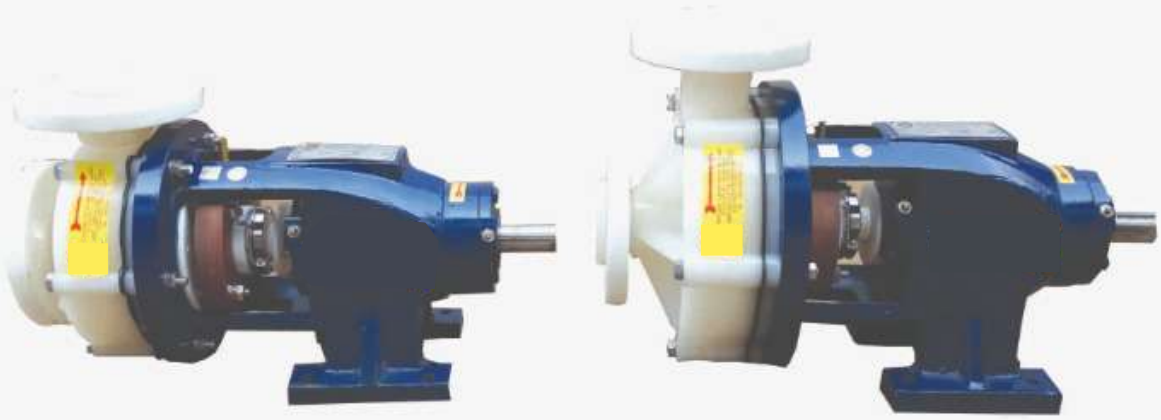
Operationg Data :

Capacity	:	up to 60 m^3/hr
Head	:	up to 30 mtrs.
Temperature	:	up to 150° C
Speed	:	up to 3500 RPM
Pressure	:	up to 3 kg/cm^2

Sealing Options : Externally mounted mechanical seal Internal mechanical seal Gland packing

Riva Technologies

PVDF PUMP SERIES



PERFORMANCE CHART

MODEL NO .	SUCTION IN MM	DELIVERY IN MM	HP	RPM	HEAD IN METER / FLOW IN M^3 / HR						IMPELLER DIA IN MM
PVDF-100	25	25	01	2900	12 00	10 02	09 05	07 08	06 11	04 13	100
PVDF-120	35	32	02	2900	17 00	15 05	13 10	11 13	07 19	05 22	120
PVDF-130	40	40	03	2900	23 00	20 08	18 12	15 18	12 24	08 25	130
PVDF-130H	40	40	03	2900	28 00	25 05	21 10	17 16	14 21	09 26	145
PVDF-50 R	40	40	02	1440	12 00	11 05	10 10	09 15	08 20	07 25	195
PVDF-50	75	40	03	1440	15 00	13 05	12 15	11 25	10 32	05 35	205
PVDF-55	75	50	05	1440	16 00	15 05	14 16	12 35	10 45	06 50	205
PVDF-160 RL	40	40	02	2900	16 00	14 04	12 07	10 09	08 11	06 13	140
PVDF-160 RL	40	40	03	2900	25 00	21 05	20 10	15 15	10 25	05 27	150
PVDF-160	75	40	05	2900	30 00	27 05	25 10	20 20	15 30	10 35	160
PVDF-170	75	50	7.5	2900	35 00	32 10	25 30	20 40	15 45	10 56	160
PVDF-40	50	40	12.5	2900	50 00	45 10	40 25	35 30	30 35	25 40	190
PVDF-500 L	50	50	03	1440	17 00	15 15	13 25	10 35	06 45	04 51	220
PVDF-500 H	50	50	15	2900	64 00	60 20	58 35	65 45	50 52	45 60	210

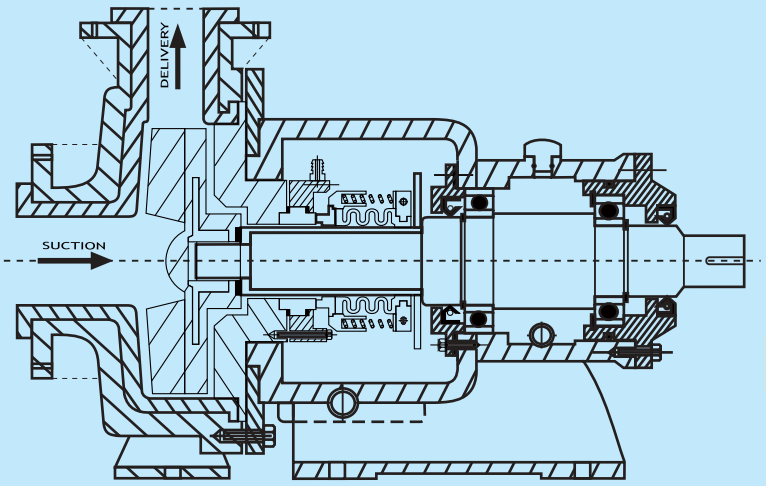
Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.

PVDF & PTFE CENTRIFUGAL PUMP (LCP SERIES)

PVDF (Injection-Molded) And PTFE Lined Back Pull Out Pumps , specially designed for highly corrosive liquids and high temperature applications. These types of pumps deliver outstanding performance with economical prices. The range being easy in use and demands minimum maintenance. Pumps offer thick injection molded casing with C.I Or S.S casing liner insert for strength of casing with easy replaceable method. Semi open (Injection-Molded) Impeller with metal insert. Excellent mechanical properties over a wide range of temperatures up to 150° C.

APPLICATIONS :

- Chemical processing upto 150 Deg
- Organic/in-organic chemical
- Air conditioning
- Effluent
- Electro plating
- Highly corrosive acid transfer
- Dyes and pigments
- Sprinkle systems
- Pickling plant
- Scrubber unit
- Water treatment
- Solvents unloading
- Transfer of liquid



OPERATING RANGE :

Capacity	Up to 150 m3/Hr
Head	Up to 80 Meters
Speed	1450 to 2850 RPM
Pump Size-DN	19mm To 100mm
Temp	Up to -60° C - +150° C

MATERIAL OF CONSTRUCTION:

- POLYVINYLIDENE FLUORIDE (PVDF)
- POLYTETRAFLUOROETHYLENE (PTFE)

Riva Technologies

SS PUMP SERIES

CENTRIFUGAL PROCESS PUMP IN INVESTMENT CASTING

Features

- All the wetted parts are made from investment castings giving excellent surface finish, sound casting, better efficiency.
- Maximum interchangeability therefore minimum spare parts inventory required to be maintained.
- Back pull out design permits quick inspection, repairs of rotary assembly without disturbing pipe line and motor connections.
- Hydraulic performance maintained by simple external axial adjustment of impeller wear.
- Exclusive balanced thrust.
- Standard dimensions cut layout cost.
- Standard foundations save installation and drawing time, talent and money.
- Fully open impeller for various fluid transfer ranging from clear to suspended solids.

Application

Chemical : Caustic transfer, Acid unloading, Monomer and polymer transfer, Molten sulphur and urea, Liquid ammonia Liquid Nitrogen.
Petrochemical : Aromatics, Low specific gravity hydrocarbons, Gas oil.
Pulp and Paper : Digester make up-green and white liquor and black liquor recovery, coating slurries, clay, Titanium dioxide and Alum transfer.
Steel and Mill Industry : Waste acid recovery, Scrubber service, Pickle liquor circulation.
General : Textile, Food, Pharmaceutical and Pollution control, chilled water, condensate return, Acid recovery, Stack scrubbers, Filter feed DM water Plant.

Volute Casing : Top centerline discharge for air handling, Self-venting. Back pullout design for ease of maintenance. Integral casing feet prevent pipe load miss-alignment longer seal and bearing life. Standard class 150 RF serrated flanges for positive sealing.

Sealing Flexibility : Wide range of sealing arrangements available to meet different service conditions. Single, Double Unbalanced, Balanced seals can be fitted in the same stuffing box.

Impeller : Fully opened impeller. Best for handling suspended solids, abrasive, and corrosives liquid. Back pump-out vanes reduce radial thrust loads and seal chamber pressure.

Positive Sealing : Fully confined gasket at casing joint protects alignment and liquid, makes disassembly easier .

Continuous Performance : Original flow, pressure and efficiency are maintained by simple external adjustment resulting in long term energy and repair saving.

Shaft & Bearings : Heavy-duty shaft designed for minimum defection at seal faces-less than 0.05mm.

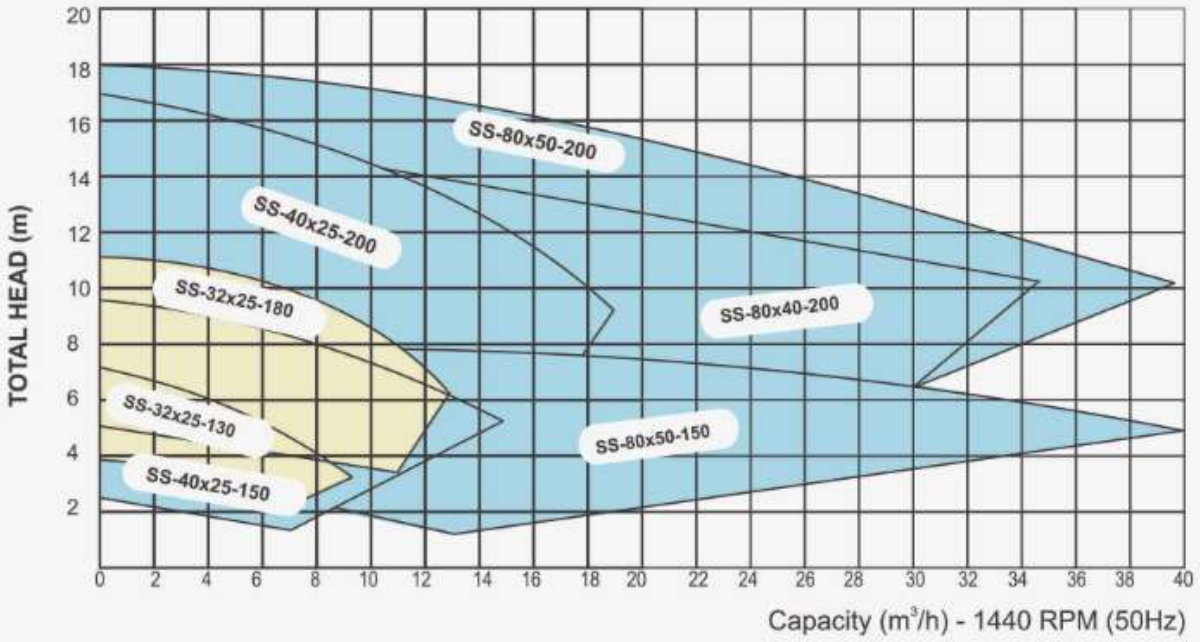
Bearing Frame : Heavy duty design reduce the loads on shaft.

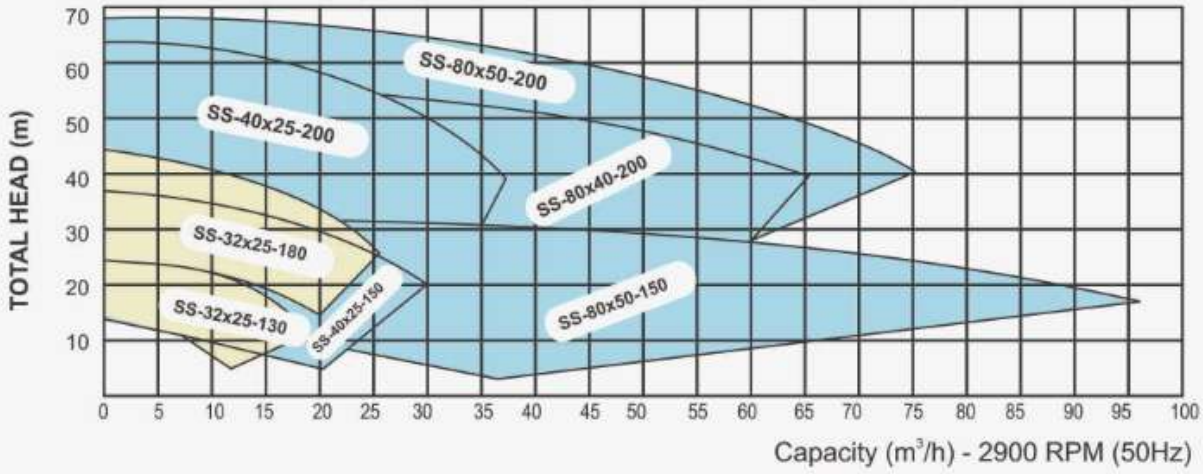
Bearing Frame Foot : Reduce effects of pipe loads on shaft alignment ; pump vibration reduced.

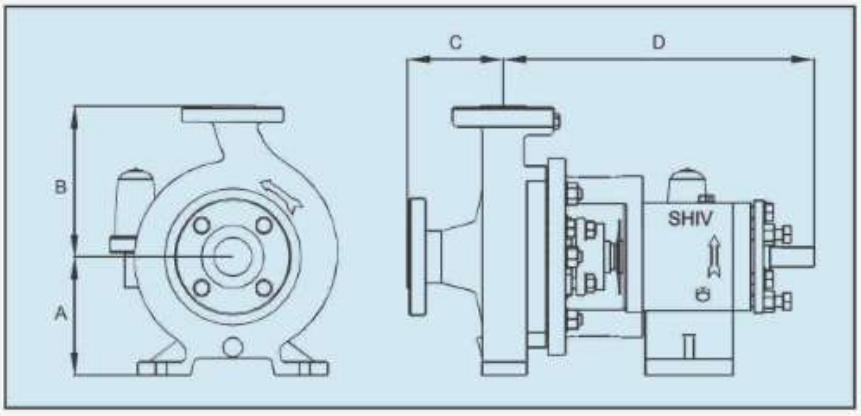
Series	Pump Size	Suction Size	Delivery Size	A	B	C	D	Flange Driling As per ANSI-B-16.5 RF					
								Suction Hole			Delivery Hole		
								PCD	Size	No	PCD	Size	No
SS	32X25X130	32	25	100	125	75	315	85	16	4	79.4	16	4
	32X25X180	32	25	132	145			85	16		79.4	16	
	40X25X150	40	25	132	165	105	345	98.4	16		79.4	16	
	50X40X150	50	40					120.6	19		98.4	16	
	80X50X150	80	50					152.4	19		120.6	19	
	40X25X200	40	25					98.4	16		79.4	16	
	80X40X200	80	40					152.4	19		98.4	19	
	80X50X200	80	50					152.4	19		120.6	19	

Riva Technologies

SS PUMP SERIES







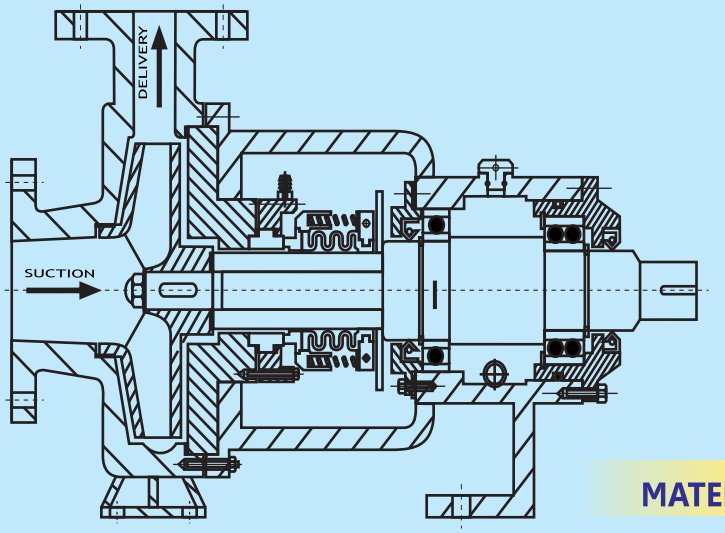
Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.

CENTRIFUGAL BACKPULLOUT PUMP (LCP SERIES)

Centrifugal Back Pull Out Metallic Pumps which are widely demanded in the industry. These pumps are of single stage, horizontal end suction type, with semi open, Fully open and closed impellers. All types of impellers are statically and hydraulically balanced. A special feature of the pump is easy of maintenance due to the foot mounted volute casing, Permitting removal of the rotating assembly without disturbance of pipe connections. These types of pumps are also available in ISO 2858/ DIN 24256Standards.

APPLICATIONS :

- Sprinkle systems
- Effluent treatment
- Detergents and caustics
- Fumes scrubbing
- Filterpress units
- Heat exchanger
- Acid transfer
- Loading/unloading
- Cooling towers
- Chilling plant
- Ejector systems



OPERATING RANGE :

Capacity	Up to 500 m3/Hr
Head	Up to 200 Meters
Speed	1450 to 2850 RPM
Pump Size-DN	19mm To 200mm
Temp	Up to 450° C

MATERIAL OF CONSTRUCTION:

- S.S 316 (CF8M)
- S.S 304 (Cf8)
- S.S 316L (CF3M)
- CAST IRON
- CAST STEEL (WCB)
- CD4MCU
- HASTELLOY B (N12MV)
- HASTELLOY C (CW12MW)
- ALLOY 20 (CN7M)
- DUPLEX SS (GRADE 4A,5A,6A)
- NI-HARD
- HARD METAL CASTING
- PHOSPHORUS BRONZE
- GUN METAL
- TITANIUM

RIVA TECHNOLOGIES

AIR OPERATED DOUBLE DIAPHRAGM PUMPS

FEATURES :

- No electrial motor required-non sparking
- No mechanical seal or gland packing
- The pumps can run dry indefinitely without damage.
- Safe for use in hazardous / explosive environments.
- Variable flow at different air pressure
- Self-priming from a dray start.
- Pressure up to 100 PSI (7 bar).
- Gentle non-shearing action.
- Quick assembly and disassembly.
- Can lift any thing from powder to viscous materials.
- Can be supplied on trolley for mobile operation.

MATERIAL OF CONSTRUCTION :

Investment Cast CF8M (SS-316)
Aluminum
Polypropylene (PP)
Polypropylene Fluoride (PVDF)

APPLICATION

- Solvents
- Acids
- Caustics
- High Viscous Liquids
- Abrasive media
- Hazardous & Flammable Liquids

AODD-400

Max Flow Rate	:	270 Lpm
Port Size	:	Intel : 38.10 mm (½" BSP)
		Discharge : 38.10 mm (1 ½" BSP)
		Air Inlet : 9.64 mm (⅜" BSP)
Suction Lift	:	Air Exhaust : 12.70 mm (½" BSP)
		Dry : 4.57 m (15')
Teflon	:	Wet : 7.62 m (25')
		Dry : 3.05 m (10')
Max Particle Size (Dia)	:	Wet : 6.09 m (20')
		4.76 mm (0.188")

Best Suitable for Filter Press & Transfer.

AODD-300

Max Flow Rate	:	135 Lpm
Port Size	:	Intel : 25.40 mm (1" BSP)
		Discharge : 25.40 mm (1" BSP)
		Air Inlet : 9.53 mm (⅜" BSP)
Suction Lift	:	Air Exhaust : 12.70 mm (½" BSP)
		Dry : 3.05 m (10')
Teflon	:	Wet : 4.89 m (16')
		Dry : 2.14 m (7')
Max Particle Size (Dia)	:	Wet : 3.98 m (13')
		3.17 mm (0.125")

Best Suitable for Filter Press & Transfer.

AODD-500

Max Flow Rate	:	586 Lpm
Port Size	:	Intel : 50.80 mm (2" BSP)
		Discharge : 50.80 mm (2" BSP)
		Air Inlet : 12.70 mm (½" BSP)
Suction Lift	:	Air Exhaust : 19.05 mm (¾" BSP)
		Dry : 4.57 m (15')
Teflon	:	Wet : 7.60m (25')
		Dry : 3.05 m (10')
Max Particle Size (Dia)	:	Wet : 6.09 m (20')
		6.35 mm (0.250")

AODD-150

Max Flow Rate	:	40 Lpm
Port Size	:	Intel : 12.70 mm (½" BSP)
		Discharge : 12.70 mm (½" BSP)
		Air Inlet : 6.85 mm (¼" BSP)
Suction Lift	:	Air Exhaust : 12.70 mm (½" BSP)
		Dry : 1.45 m (4.75')
Teflon	:	Wet : 2.83 m (9.28')
		Dry : 0.50 m (1.64')
Max Particle Size (Dia)	:	Wet : 0.90 m (2.95')
		2 mm (0.078")

Best Suitable for Filter Press & Transfer.

Riva Technologies

FTHN SERIES

Positive Displacement Rotary Twin Gear Pumps type for Pumping & Transfer of all kinds of Viscous Liquid & Petroleum Products

FEATURES

- Herrigbone rotors design elimates side thrust
- Modified tooth profile enhaces the tooth life
- Floting gear-design ensures uniform load distribution
- Low-leakage path by design improve volumetric efficiency
- Extra thick shaft reduces bending effectively

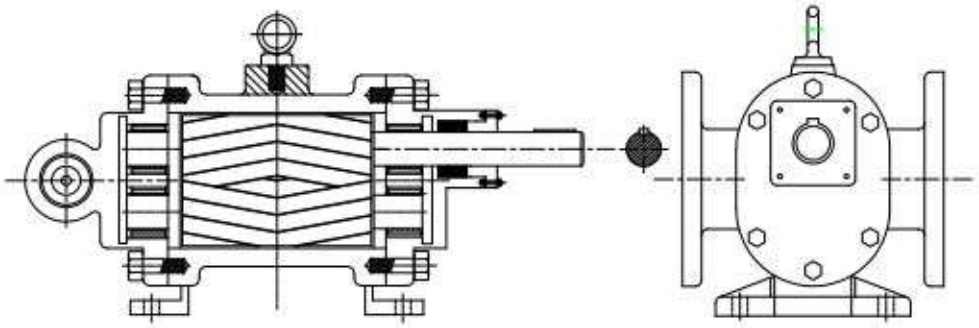
From ½" to 6" NB Size (Flanged to ASA 150 Class)
Capacity, From : 0.5 to 200 M^3/hr, Pres-up to 12 Kg./Cm^2
Viscosity up to 1,00,000 - cst, Temperature - up to 110° C

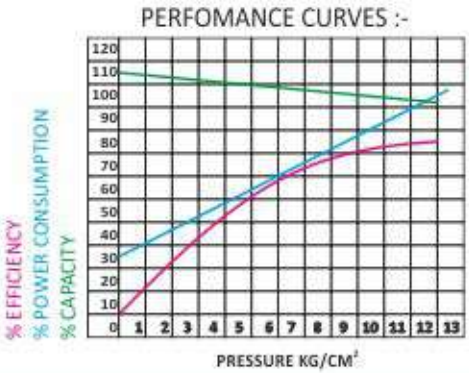
Riva Technologies

MODEL	SIZE	SPEED	CAPACITY			HORSE POWER & CAPACITY CHART									PUMP WT.
			LPM	US GPM	M3/hr	½ 1	2	3	4	5	7	8	10	12	
050-S	¾" X ¾"		8.30	2.20	0.50	0.20	0.23	0.27	0.30	0.32	0.36	0.38	0.43	0.47	8.0
050-M			15.60	4.40	1.00	0.24	0.28	0.32	0.36	0.40	0.48	0.52	0.60	0.68	
050-L			25.00	6.60	1.50	0.30	0.36	0.41	0.47	0.52	0.63	0.70	0.81	0.93	
100-S	1"X1"		33.30	8.80	2.00	0.37	0.45	0.54	0.62	0.69	0.85	0.92	1.09	1.25	14.0
100-M			41.50	11.00	2.50	0.38	0.48	0.57	0.65	0.76	0.95	1.08	1.23	1.41	
100-L			50.00	13.20	3.00	0.40	0.50	0.60	0.75	0.89	1.17	1.30	1.59	1.85	
150-S	1½"X1½"		83.30	22.00	5.00	0.70	1.00	1.20	1.40	1.50	1.95	2.15	2.55	2.95	22.5
150-M			100.00	27.60	6.00	0.85	1.10	1.35	1.55	1.77	2.22	2.45	2.90	3.45	
150-L			125.00	33.30	7.50	1.05	1.45	1.95	2.10	2.40	2.95	3.25	4.00	4.90	
200-S	2"X2"		150.00	39.00	9.00	1.35	1.80	2.45	3.0	3.50	4.50	5.25	6.35	7.60	28.0
200-L			200.00	52.80	12.00	1.80	2.40	2.95	3.50	4.05	5.15	5.70	6.90	0.10	
250-S	2½"X2½"		250.00	66.00	15.00	2.00	2.50	3.20	3.75	4.30	5.60	6.20	7.70	9.50	43.0
250-L			333.00	88.00	20.00	3.80	4.65	5.50	6.35	7.25	9.05	10.50	12.20	14.35	
300-S	3"X3"		415.00	105.00	25.00	5.00	6.00	7.00	8.00	9.00	11.00	12.00	14.25	16.50	59.0
300-L			500.00	132.00	30.00	6.00	7.35	8.65	10.15	11.45	14.05	15.40	17.90	21.00	
400-S	4"X4"		666.60	176.00	40.00	8.85	10.50	12.00	13.65	16.25	18.25	20.00	22.00	25.50	82.0
400-L			833.30	220.00	50.00	9.50	11.50	14.00	16.00	18.00	22.50	25.00	30.00	35.50	
500-S	5"X5"		1000.00	264.00	60.00	14.50	17.20	19.00	22.00	24.80	30.00	32.40	37.20	42.50	150.0
500-L			1250.00	330.00	75.00	17.50	20.50	23.50	27.00	30.50	36.50	40.00	46.00	53.00	
600-S	6"X6"		1660.00	440.00	100.00	21.50	25.55	30.00	34.55	40.00	48.88	52.95	62.00	72.00	175.0
600-L			2083.00	550.00	125.00	25.50	31.00	36.00	41.50	46.50	57.00	63.00	72.00	81.00	
601-S	6"X6"		2499.00	660.00	150.00	38.00	43.00	48.00	54.00	60.00	70.00	75.00	87.00	96.00	190.0
601-L			3332.00	880.00	200.00	50.00	57.00	65.00	72.00	79.00	93.00	100.00	115.00	127.00	

PARTS LIST WITH MATERIAL OF CONSTRUCTION			
Sr.	ITEM	QTY.	MATERIAL
1	PUMP CASING	1	CI/CS/SS
2	FRONT COVER	1	CI/CS/SS
3	BACK COVER	1	CI/CS/SS
4	GLAND COVER	1	CI/CS/SS
5	ROTOR SHAFT	1	SAE8620/EN31/SS
6	STATOR SHAFT	1	SAE8620/EN31/SS
7	IMPELLER GEAR	1	EN-24-/SS
8	NEEDLE BRG.	1	NTN/IKO/NRB
9	WEAR PLATE	1	BRONZE/CI
10	LIFTING HOOK	1	STEEL
11	R.V. HOUSING	1	MAL.IRON
12	R.V. PISTON	1	EN-8/SS
13	R.V. SPRING	1	SPR.ST
14	R.V.AD. SCREW	1	EN.-8/SS
15	BASE PLATE	1	M.S.
16	COUP. GUARD	1	ALUMN/MS
17	COUPLING	1	FLEXIBLE
18	COUP. KEY	1	EN.-80/SS
19	SEALING SYS.	2	OS/MS/GP
20	DOWEL PIN	4	EN31
21	COMP. FLANGE	2	MS/SS
22	H/T HEX-BOLT	12	EN.-8/SS

POWER CONSUMPTION IS AT 300 CSP VISCOSITY. IT WILL INCREASE AT 10% FOR EVERY 300 CSP INCREASE IN VISCOSITY.





DIMENSIONS

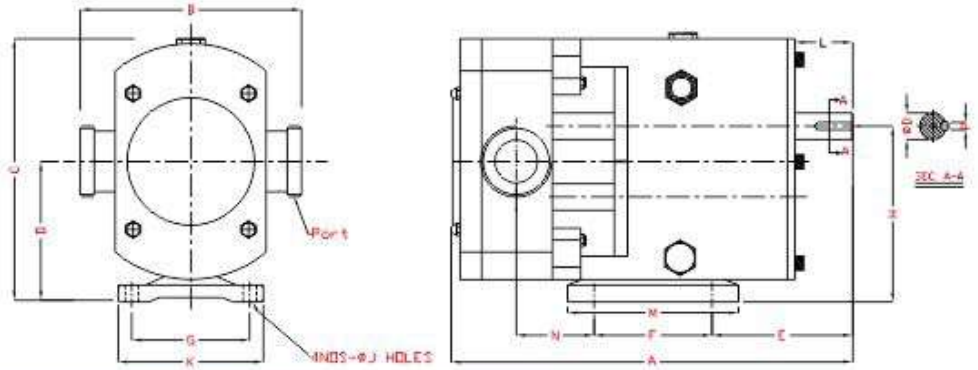
Model	OCERALL DIMENSIONS			MOUNTING DIMENSIONS							FLANGE DIMENSIONS				SHAFT DIMENSIONS				
	A	F	H_2	B	C	E	H	H_1	T	D_3Ø	No.OF HOLE	D_2Ø	HOLE SIZE	P.C.D.	L	L_1	DØ	P	Q
FTH-050-S-M-L	239	150	110	80	100	91	80	69.0	12	08	4	89	16	60	22	30	11.5	4	13.0
FTH-100-S-ML	271	160	130	90	110	100	90	74.0	12	10	4	108	16	79	25	30	15.0	5	17.0
FTH-150-S-ML	318	180	145	105	130	119	100	80.0	14	10	4	127	16	98	25	40	21.0	6	23.5
FTH-200-S-L	359	200	165	110	150	133	112	89.5	14	12	4	152	19	121	40	50	24.0	8	27.0
FTH-250-S-L	419	220	190	130	160	163	132	106.0	15	15	4	178	19	140	40	55	27.0	8	30.0
FTH-300-S-L	481	240	220	160	220	168	160	131.0	20	18	4	190	19	152	53	60	32.0	10	35.0
FTH-400-S-L	554	280	255	180	270	189	180	145.0	22	18	8	229	19	190	53	65	37.0	10	40.0
FTH-500-S-L	615	295	280	200	300	215	200	160.0	25	19	8	254	22	216	60	85	47.0	14	50.5
FTH-600-S-L	690	340	318	220	350	215	225	178.0	26	20	8	279	22	241	70	95	52.0	16	56.0
FTH-601-S-L	749	360	357	240	380	230	250	200.0	28	22	8	279	22	241	70	100	57.0	16	61.0

SPECIFICATIONS

Model No.	Displacement		Standard Port Size		Max. Differential Pressure		Max. Speed
	Liters/ rev	US gallon/ 100 Rev.	mm	Inch	Bar	PSI	RPM
FTL-05	0.05	1.4	25	1	7	105	1000
FTL-08	0.08	2.25	25	1	7	105	1000
FTL-12	0.12	3.38	40	11/2	7	105	1000
FTL-18	0.18	4.78	40	11/2	7	105	1000
FTL-28	0.28	7.03	50	2	7	105	750
FTL-38	0.38	10.15	50	2	7	105	750
FTL-55	0.55	14.64	65	21/2	7	105	600
FTL-79	0.79	20.87	65	21/2	7	105	600
FTL-115	1.15	30.65	80	3	7	105	500
FTL-180	1.80	44.39	80	3	7	105	500
FTL-260	2.60	68.70	100	4	7	105	400
FTL-355	3.55	93.26	100	4	7	105	400

MOC

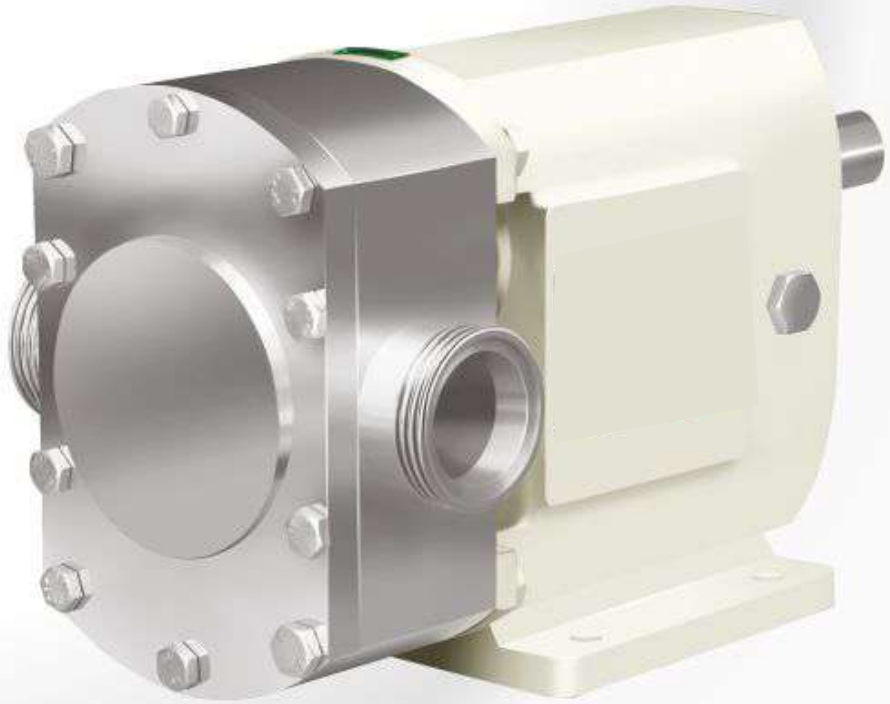
SR. No.	PARTS	MOC
1	Pump Chamber	SS-316
2	Lobe-Rotor	SS-316
3	Top Cover	SS-316
4	Shaft	SS-316
5	Shaft Seal	Mech. Seal
6	Gear	EN-24
7	Casing	CI
8	Back Cover	CI
9	Bearing Spacer	CI
10	Bearing	Tapper Roller



DIMENSIONS

MODEL	PORT	A	B	C	D	F	E	G	K	M	N	L	H	D	P	J
FTL-05	1"	270	140	175	90	75	124	80	100	140	43/47	37	113	18	5	12
FTL-08	1"	278														
FTL-12	11/2"	310	180	220	115	100	100	100	125	155	43/47	46	145	22	6	12
FTL-18	11/2"	325														
FTL-28	2"	376	215	270	137	125	105	125	155	180	50/70	58	175	30	8	14
FTL-38	2"	388														
FTL-55	21/2"	455	280	315	163	150	163	150	185	200	93/ 103	75	210	38	10	14
FTL-79	21/2"	475														
FTL-115	3"	510	315	405	214	210	145	210	240	250	88/ 108	110	275	45	12	14
FTL-180	3"	530														
FTL-260	4"	600	458	435	230	180	180	240	240	215	100/ 146	100	300	55	14	17
FTL-355	4"	590														

Riva Technologies

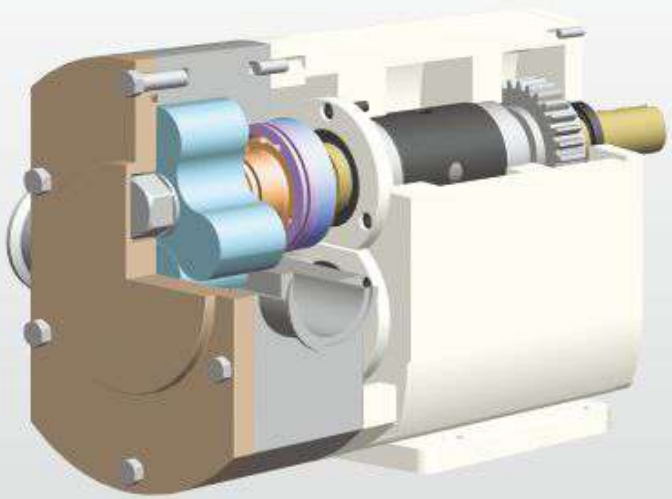


FTL Series

Rotary Lobe Pump

Features

- Pump body has an internal flat profile and is free draining with vertical ports.
- Cover is free draining in horizontal or vertical port positions.
- Rotor/shaft connection sealed from product zone.
- Mechanical seals standard. Single or flushed double.
- Seal flush optional: seal areas interconnected to improve circulation and draining of seal flush fluid. Steam-In-Place also is optional.
- Jacketed cover optional.
- 316 L stainless steel pump body and cover optional.
- Electro-polish of product contact surfaces, optional.
- Stainless steel base frame optional.



Applications

Bakery
Batters
Flavorings Frostings
Fats & Oils Sweeteners
Yeast
Slurry
Ketchup
Jam

Beverage
Beer, Wort, Yeast Soft Drinks
Fruit Drinks
Juice Concentrate

Canning
Baby Foods,
Soups
Fruit Puree Puddings,
Jellies
Salad Dressings,
Mayonnaise

Confectionary
Syrups
Cream Fillings
Chocolate
Glucose

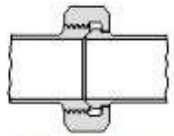
Cosmetics
Face Creams & Lotions
Hair Styling Gels
Liquids Essential Oils
Dyes & Alcohols
Lotions
Shampoo

Dairy
Cream
Milk Ice Cream
Mix Yogurt
Curd

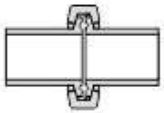
Chemical/Industrial
Solvents Fuels
Oils & Lubricants
Soaps
Detergents
Paint
Glues

Standard & Option

Ports



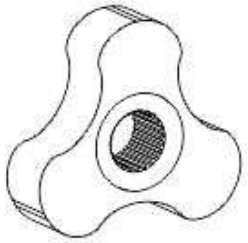
SMS Connection
Standard



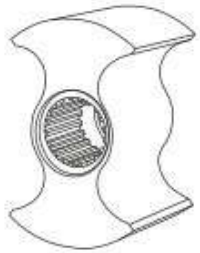
Optional Sanitary Clamp

150 lb. RF flanges standard on Model FTL-260 & FTL-355

Rotors



Tri Lobe

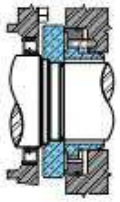


Wing Lobe

Seal Options

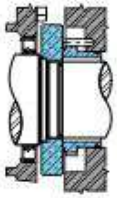
Double Mechanical Seal

Used with flushing fluid to cool, lubricate, flush away residue. Best arrangement for severe service.



Single Mechanical Seal

Longer life, wider pressure-temperature-speed range. Silicon-to-Silicon faces standard. Alternate Material available for abrasive service.



Mechanical seal material options:

- Carbon
- Ceramic
- Silicon Carbide
- Tungsten Carbide

Elastomer choices for "O" rings:

- EPDM
- Viton
- PTFE Encapsulated
- Silicone

Riva Technologies

Progressive Cavity Single Screw Pumps

Capacity	275 M^3/HR
Temperature	120 ^{0}C
Pressure	Up to 24 Bar
Viscosity	100,000 CST
Solid Handling Capacity :	100 mm (Soft & Compressible)
	Up to 25 mm (Hard & Angular)

Riva Technologies

Economically Handled with The Riva Technologies

Riva Technologies Applications

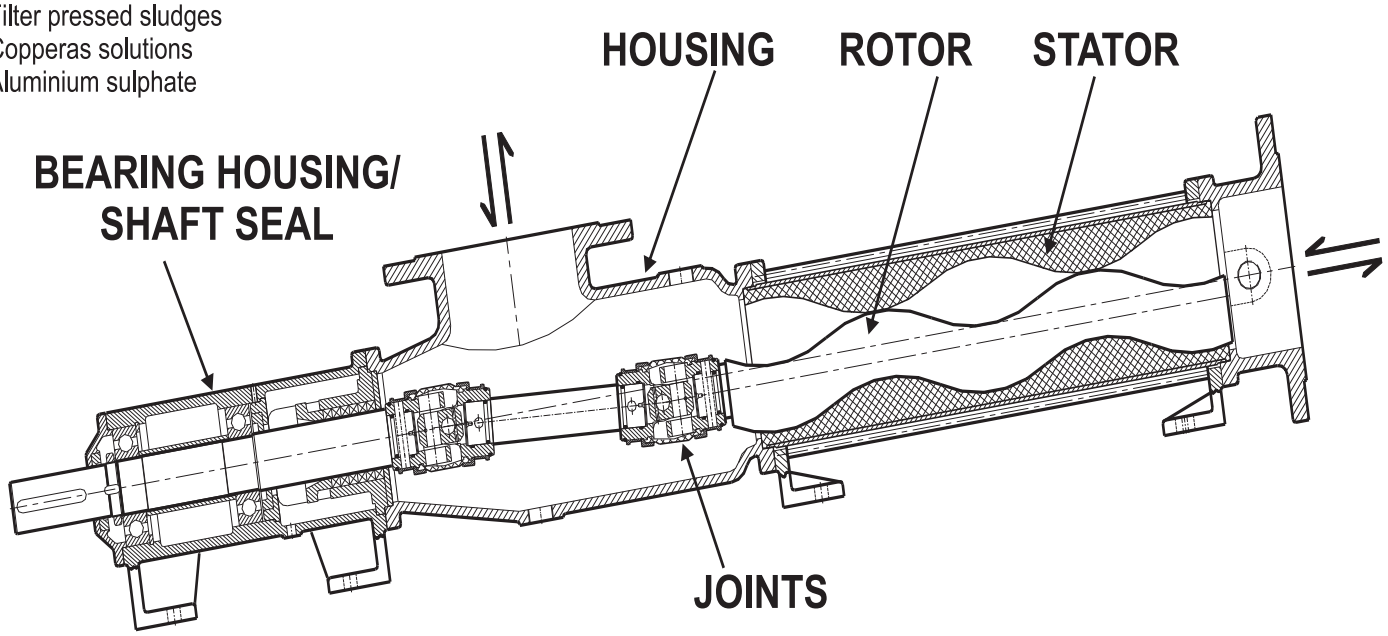
01. THE PAPER AND CERAMICS INDUSTRY
Clay slurry
Calcium carbonate
Titanium dioxide
Dentonite slurry
Resin
Latex
Coating
Starch
Ceramic slip
Pigment

02. THE CHEMICAL INDUSTRY
Phosphoric acid
Alum
Sodium silicate solutions
Nitric acid
Caustic solutions
Magnesium sulphate
Petroleum sulphate
Petroleum sprit
Diesel fuel oil
Ferric chloride
Ethylene glycol

03. THE FOOD INDUSTRY
Molasses
Sauces
Peanut butter
Cooking oil
Spong mixes
Whey
Preserves
Fruit juices
Honey
Yoghurt
Pet food

04. MINING
Waste water
Wash water
Grouting mixtures
Cavity filling mixes
Coal slurries
Waste sludges
Nuisance water

05. SEWAGE & WASTE WATER TREATMENT
Polyelectrolyte
Lime acids
Carbon slurries
Chlorine
Digested sewage sludge
Primary and secondary sludges
Filter pressed sludges
Copperas solutions
Aluminium sulphate

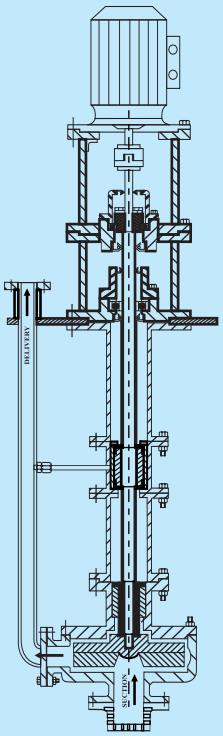


Desirable Features

* **Design Simplicity –** No pistons, valves or timing gears to wear out or gum up.
* **High Efficiency –** The compression fit between the rotor and stator of a Riva Technologies provides high volumetric and mechanical efficiency.
* **Smooth Fluid Discharge –** free from pulsation or variation in velocity or volume.
* **No Vibration –** Should run smoothly and quietly with almost no noise or vibration.
* **Maintenance Ease –** wear parts should be easy to reach and replace.
* **Wild Temperature Range –** Riva Technologies can run hot or cold. Rotor/Stator combinations are available for service up to 120 ºC
* Riva Technologies does not need the separate air supply some other types of positive displacement pumps require.
* Easy To Regulate – Riva Technologies progressing cavity principle makes it a natural for metering applications .
* **Superior Abrasion Resistance –** Riva Technologies successfully handle materials that can destroy many types of pumps.
* **High Pressure Capability –** much higher than a centrifugal pump – with improved efficiencies and lower cost.
* High viscosity capabilities and low shearing action.
* **Double Sealed Universal Joint –** Ensures smoother power transmission and longer service life of critical components.
* **Self-Priming –** Can work on snore i.e. handle high percentage of air with liquid.
* **Reversible –** suction and delivery ends can be interchanged by merely changing direction of rotation of the prime mover.

VERTICAL SUBMERGED PUMP (LVP SERIES)

Vertical Submerged Pumps are widely used for leak free performance where leakage is not allowed. No mechanical seals or glands, So no breakdown of pump. Most preferable for effluent treatment plant and underground tank. These pumps are developed aiming at heavy duty application with vertical mounting and operational work. Unique and simple design with axial adjustment for maintenance free aperation. Optional mechanical seal is provided to prevent leakage of fumes and pressure from top of tank. Vertical length of pump will be tailor made as per depth of tank.



APPLICATIONS :

- Underground tank
- Tanks having fumes and pressure
- Effluent treatment tanks
- Solvents unloading
- Chemical processing
- Electro plating
- Scrubber unit
- Water treatment
- Food processing
- Filterpress units
- Heat exchanger
- Acid transfer
- Loading/unloading
- Cooling towers
- Chilling plant
- Ejector systems

OPERATING RANGE :

Vertical Pump Length	Up to 4.5 Mtr
Capacity	Up to 100 m3/Hr
Head	Up to 100 m3/Hr
Speed	1450 to 2850 RPM
Pump Size-DN	19mm To 150mm
Temp	Up to -20° C - +150° C+150° C

MATERIAL OF CONSTRUCTION:

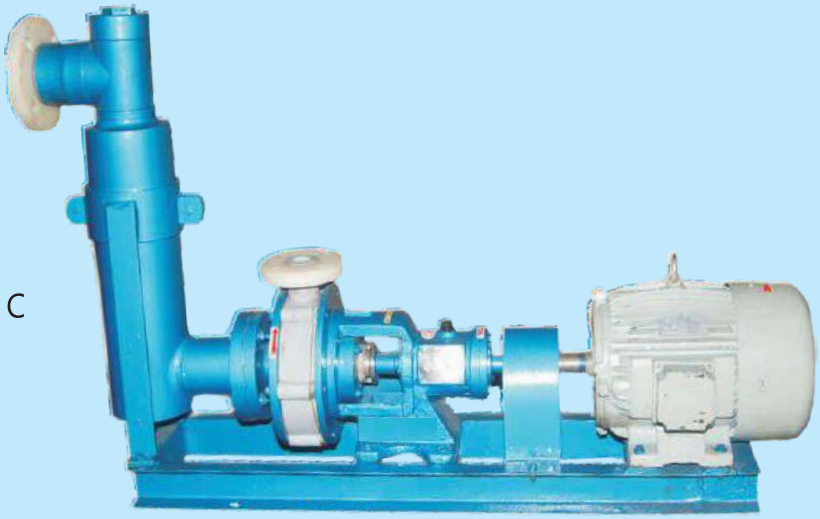
- P.P
- UHMW-HDPE
- PVDF/ PTFE
- G.F.P.P
- CAST STEEL (WCB)
- CD4MCu
- S.S 316 (CF8M)
- S.S 304 (Cf8)
- HASTELLOY C (CW12MW)
- ALLOY 20 (CN7M)
- DUPLEX SS (GRADE 4A,5A,6A)
- CAST IRON
- PHOSPHORUS BRONZE
- GUN METAL
- HASTELLOY B (N12MV)
- S.S 316L (CF3M)

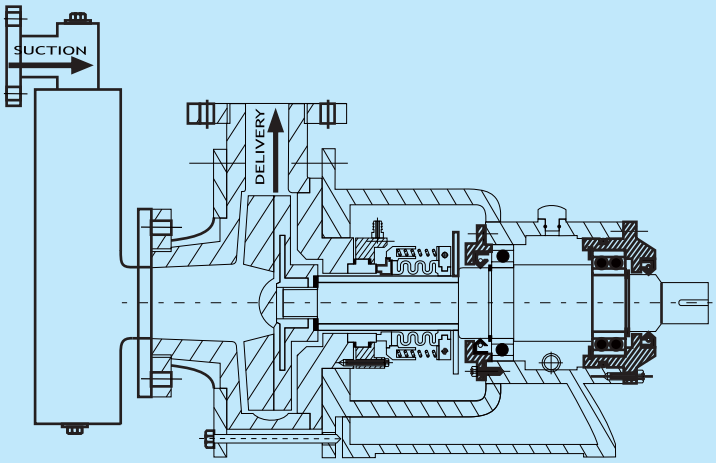
SELF PRIMING PUMP (LSP SERIES)

Self Priming Chamber Type Pumps suitable for negative suctions without foot valve. An ideal pump for underground pits & tanks, barrel unloading Etc. Priming chamber is provided to prevent the back flow of liquid when the pumps is shut off. Priming chamber and impeller is primed with process liquid to create sucking pressure and drain of air bubbles from negative suction line, So when pump starts impeller receives the liquid directly from the chamber, When pump is switch off, Priming chamber always remain in priming condition so no need to re-prime every time. For mobility and transportation of pump unit from one place to another, Trolley mounted pump is offered on demand for multipurpose use.

OPERATING RANGE :

Capacity	Upto 150 m3/Hr
Head	Up to 100 Meters
Speed	1450 to 2850 RPM
Pump Size-DN	19mm To 150mm
Temp	Up to -20° C - +150° C





APPLICATIONS :

- UNDERGROUND TANK UNLOADING
- SOLVENTS UNLOADING
- SPRINKLE SYSTEMS
- HEAT EXCHANGER
- COOLING TOWERS
- EFFLUENT TREATMENT PITS
- EFFLUENT TREATMENT
- FUMES SCRUBBING
- ACID TRANSFER
- CHILLING PLANT
- DETERGENTS AND CAUSTICS
- DRUM UNLOADING
- FILTERPRESS UNITS
- LOADING/UNLOADING
- EJECTOR SYSTEMS

MATERIAL OF CONSTRUCTION:

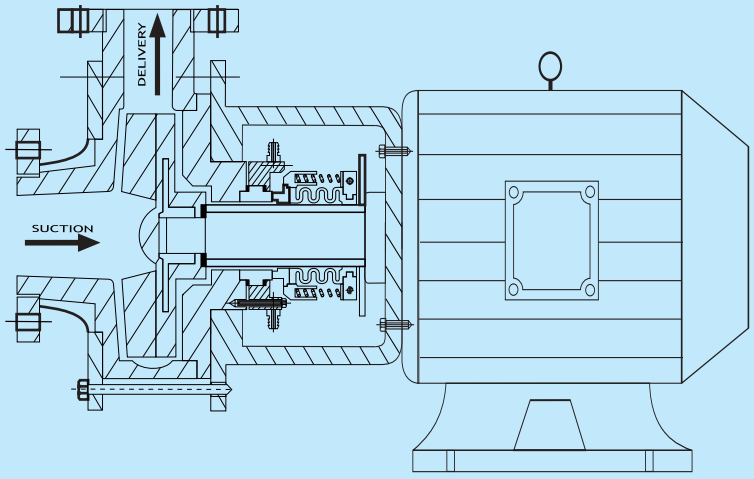
- P.P
- UHMW-HDPE
- PVDF/PTFE
- G.F.P.P
- CAST STEEL (WCB)
- CD4MCu
- S.S 316 (CF8M)
- S.S 304 (Cf8)
- HASTELLOY C (CW12MW
- ALLOY 20 (CN7M))
- DUPLEX SS (GRADE 4A,5A,6A)
- CAST IRON
- PHOSPHORUS BRONZE
- GUN METAL
- HASTELLOY B (N12MV)
- S.S 316L (CF3M)

MONOBLOCK PUMP (LMP SERIES)

Monoblock Pumps especially designed to occupy minimum space and provide versatile performance. The pump is attached to motor with single shaft avoiding the use of coupling minimizing weight, Installation space vibration and noise level. Sounds very economical compared to coupled type pumps. These pumps are provided with mechanical seal type and gland packing type as per the liquid application. Considering the limited space where sufficient space is not available these pumps are compact designed to save your useful space of plant.

APPLICATIONS :

- Sprinkle systems
- Effluent treatment
- Detergents and caustics
- Fumes scrubbing
- Filterpress units
- Heat exchanger
- Acid transfer
- Loading/unloading
- Cooling towers
- Chilling plant
- Ejector systems



OPERATING RANGE :

Capacity	Up to 150 m3/Hr
Head	Up to 100 Meters
Speed	1450 to 2850 RPM
Pump Size-DN	19mm To 150mm
Temp	Up to -20° C - +150° C

MATERIAL OF CONSTRUCTION:

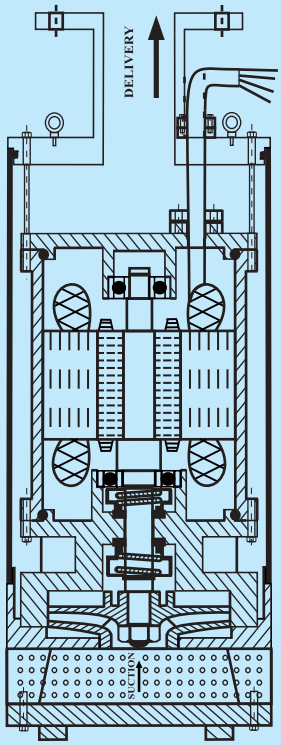
- P.P
- UHMW-HDPE
- PVDF/PTFE
- G.F.P.P
- CAST STEEL (WCB)
- CD4MCu
- S.S 316 (CF8M)
- S.S 304 (Cf8)
- HASTELLOY C (CW12MW)
- ALLOY 20 (CN7M)
- DUPLEX SS (GRADE 4A,5A,6A)
- CAST IRON
- PHOSPHORUS BRONZE
- GUN METAL
- HASTELLOY B (N12MV)
- S.S 316L (CF3M)

SUBMERSIBLE DEWATERING PUMP (LDWP SERIES)

These pumps have an excellent performance capacity with high motor power combined with heavy duty design. It is compact portable and self priming with bottom suction and top discharge which enables the pump to dewater up to the lowest level. Pump is completely submerged in process liquid so no priming is required for unloading of underground tanks. It is also designed with dual mechanical seal for protection of inbuilt motor. These pumps are design easy to maintenance at site.

APPLICATIONS :

- UNLOADING OF UNDERGROUND TANKS,
- EXCAVATING DRAINAGE IN BUILDING TRADE
- CIRCULATING FOUNTAIN WATERS
- INDUSTRIAL WATER DRAINAGE
- BUILDING DAMS AND TUNNELS
- SEWAGE AND WASTE WATER
- FLOOD WATER CONTROL
- MARINE, AQUACULTURE
- STEEL INDUSTRIES COLD ROLL MILL AND HOT STEEL MILL
- WATER TRANSFER
- MUNICIPALTIES
- MINING INDUSTRIES
- EFFLUENT
- RIVER WATER
- DESCALING OPERATIONS
- HANDLING DIRTY WATERS
- PITSAND VESSELS
- IRRIGATION



MATERIAL OF CONSTRUCTION:

- CAST IRON
- CAST STEEL (WCB)
- GUN METAL
- S.S 316 (CF8M)
- HASTELLOY B (N12MV)
- HASTELLOY C (CW12MW)
- ALLOY 20 (CN7M)
- DUPLEX SS (GRADE 4A,5A,6A)
- S.S 304 (Cf8)
- S.S 316L (CF3M)
- BRONZE
- TITANIUM

OPERATING RANGE :

Capacity	Up to 200 m3/Hr
Head	Up to 100 Meters
Speed	1450 to 2850 RPM
Pump Size-DN	25mm To 150mm
Temp	Up to +150° C

Riva Technologies

Riva Technologies is one of the leading company for supplier & exporter of high quality Pumps and Industrial Products in Domestic and International market. Out presence on the territory of the whole world contributed to our dominance on the market for the products we supply through monitoring of new trends, market demands and customer needs.

PLUNGER PUMPS

Key Design Features :

- High Flow rates of 10,000 liters / hr & high pressures of 400 kg/sq. cm. can be achieved.
- Steady State metering accuracy of + /- 1 % of pump output, at single setting of stroke from 10% - 100%.
- Reproducibility (Repeatability) better than +/- 2.5 % of set point.
- Easily handles viscous fluids. They are compatible with most of fluids.
- Simplex and multiplex arrangements of pumps available for universal use.
- Heating or cooling jackets for liquid head is also available.

Liquid Contact Materials (Wetted Parts) : AISI 304, AISI 316, Monel, Alloy 20, Hastalloy B, Polypropelene, Hastalloy C, Titanium, GFT

Application : Caustic dosing, boiler Chemical dosing, Polyelectrolyte Dosing, Pressure Testing, Transfer of viscous product like syrup etc.

HYDRAULIC ACTUATED DIAPHRAGM PUMPS

Key Design Features :

- HD type Diaphragm glandless pumps, which allow leak free operation. Flow rates of OTO 10,000 LPH, & High discharge pressures of 180 kg/sq. cm. can be achieved.
- Steady State metering accuracy of + - 1 % of pump output, at single setting of stroke from 10 % - 100 %
- Reproducibility (Repeatability) better than + /- 1.5 % of set point.
- Inbuilt Pressure Relief & Vacuum Valve on the hydraulic side to safeguard system.
- Double diaphragm with rupture indication also available. Easily handles viscous fluids. They are compatible with most of fluids.

Liquid Contact Materials (Wetted Parts) :
(PTFE Diaphragm) AISI 304, AISI 316, Monel, Alloy 20, Hastalloy B, propelene, Hastalloy C, Titanium, GFT, PP, PTFE, PVC

Application : Acids, Flammable liquids, Corrosive liquids.

MECHANICALLY ACTUATED DIAPHRAGM PUMP

Key Design Features :

- Flow range from 35 LPH up to 1000 LPH, for different models & pressure of maximum 4 kg./Sq. Cm.
- Completely leak free diaphragm pumps.
- Steady state metering accuracy of + 3%, of pump output, at single setting of stroke from 10% - 100%
- Reproducibility (Repeatability) better than + - 3% of set point.
- Suitable to handle most corrosive fluids.

Liquid Contact Materials (Wetted Parts) :
(PTFE Diaphragm) AISI 304,
AISI 316, Monel, Alloy 20, Hastalloy B, Polypropelene,
Hastalloy C,Titanium, GFT, PTFE, PVC,

Application : Water and West treatment Chemicals.

Riva Technologies

AIR COOLED / WATER COOLED THERMIC FLUID PUMPS

❖ SSE-AC/SSE-WC SEARISE

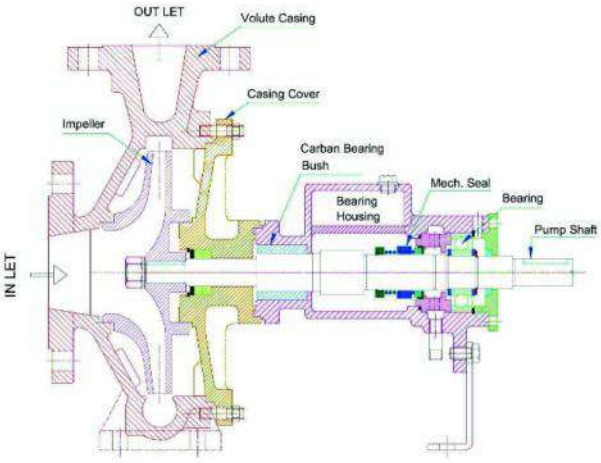
• SPECIFICATION

Capacity	Up to 180 m3/hr
Discharge Size	25 mm to 80 mm
Temperature	Up to 350 Degree C
Pressure	Up to 8 kg/cm2
Speed	Up to 3500 rpm
Cooling Method	Air/Water
M.O.C.	ASTM A 351/743 Gr. CF8 (SS-304)
	CF8M(SS-316), W.C.B. etc...

Water Cooled Pump

• APPLICATION

- Petro-Chemical Industries
- Oil Industries
- Synthetic - fibre industries
- Textile, dyeing, printing industries
- Plastic and rubber industries
- Paper making industries
- Timber processing industries
- Sugar Industries
- Food Industries
- Construction industries
- Laminate/Plywood Industries



AIR Cooled Pump

• FEATURES

Hot oil pump is a centrifugal oil pump with the function of pumping light oil with very high temperature of 350° C. Hot Oil Pump is developed by absorbing many counterparts advantages, which enables the product many characteristics, for instance, reasonable construction, high efficiency, zero leakage in long term function etc, widely applied in the field of Petrol, oil, boiler, buildings, road, pharmacy, plastics, viton, combined fibre, printing and dyeing sectors etc. Is a good hot medium pump, working temp max.350° C. Capacity:4.5 to 180m3/h pressure : 1.5 to 6 bar. (special demand can be negotiated)