



MAFFS PUMPS
P V T L T D



- MANUFACTURE
- SERVICES PROVIDER
- EXPORTER
- PROJECT SUPPLIER

All types of Industrial Pumps
and all types of pumps spares
etc.

ABOUT Us



In continuation to our legacy journey as a customer centric company "Expert Engineering" which started in 2001, we are now delighted to expand our business portfolio to Industrial pumps & pumps spares under the name of "Maffs Pumps pvt ltd".

Maffs Pumps is an Indian based Pumps Manufacturing & Service company for the process, power and energy industries across the globe.

We have state of the art manufacturing facility to produce high quality Pumps & Pumps Spare to meet specific needs of the customers. This modern facility is supported by a specialized team of highly skilled staff who ensures of the quality and customer needs are met by complying to national & International standards.

We are involved in the Design, Manufacturing, Testing, Servicing and Supply of Industrial Pumps and Pumps Spares. We work with the highest consideration for the health & safety of our people and minimize the environmental risk.

Maffs Pumps is accredited and complies with the Quality Management System ISO 9001.

Commitement

Safety

Quality

Customer Delight

VALUES

Integrity i commitment
I customer focus building relationship
I teamwork

VISION

Be a global leader in providing specialized products and services in flow control business with commitment in compliance with the requirements of our quality managment system.

MISSION

Our mission is to provide specialized products & services to our clients with delivery commitments to achieve customer delight.

CODE OF CONDUCT

The code of conduct outlines Maffs commitment and requirement/regarding business practices and personal conducts.

QUALITY POLICY

Our policy is to continously improve customer satisfaction by supplying high quality products as committed is compliance with the requirements of our Quality Managment System.

Our Objectives Are:

- Improve customer satisfaction
- Improve in time delivery
- Successful completion audits
- Reduce cutomers complaints
- Improve delivery lead times



MSCP SERIES

Casting

Chemical Process pump having top centerline discharge, self-venting casting, arranged for back pull-out. Fully confined gasket. Foot support under casing for maximum resistance to misalignment and distortion from pipe loads. ANSI-B-16.5 (Class 150) flanges standard, ANSI-B-16.5 (Class 300) optional for working pressure to 2550 kPa with 3 mm corrosion allowance. For Maximum Corrosion-erosion resistance casing is supplied without tapped openings but gauge and drain plug openings are provided when specified.

Impeller

Pump Impeller matched to casting for high efficiency and low NPSH. Fully open, has partial shrouds for maximum vane support without high thrust inherent in closed impellers. Stuffing box pressure reduced and entrance of solids prevented by back pump-out vanes. Large smoothly contoured flow passages combine best slurry and solid handling ability. Impeller is locked on shaft with impeller lock-nut and are sealed by Teflon (PTFE) gasket. State of the art casting methods provide smoothest possible surfaces for highest efficiency. All impellers are statically balanced.

Shaft

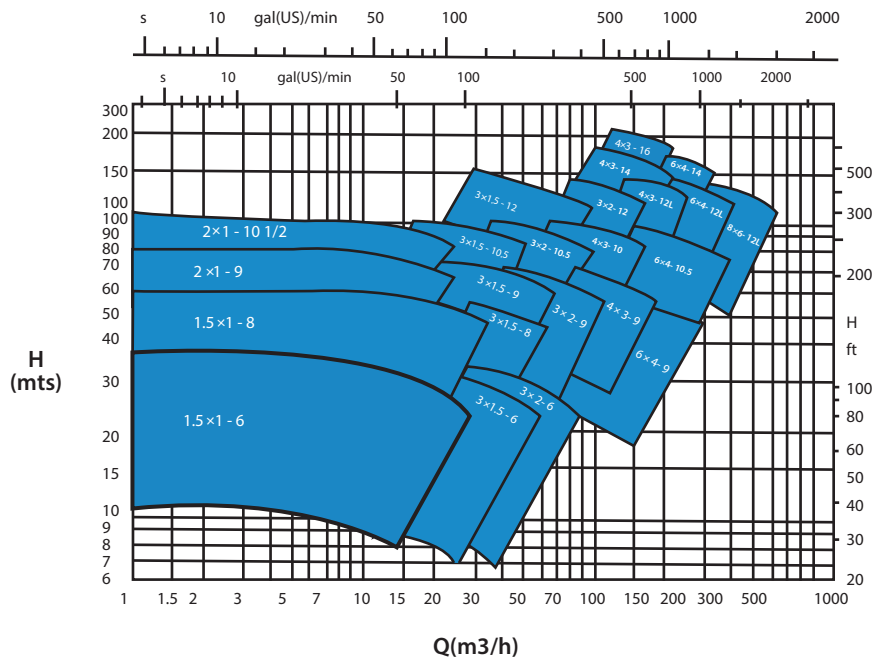
Pump having a single piece shaft is designed for 0.05 mm maximum deflection at stuffing box face. all critical surfaces ground to less than 0.8 micron.

Stuffing Box Cover

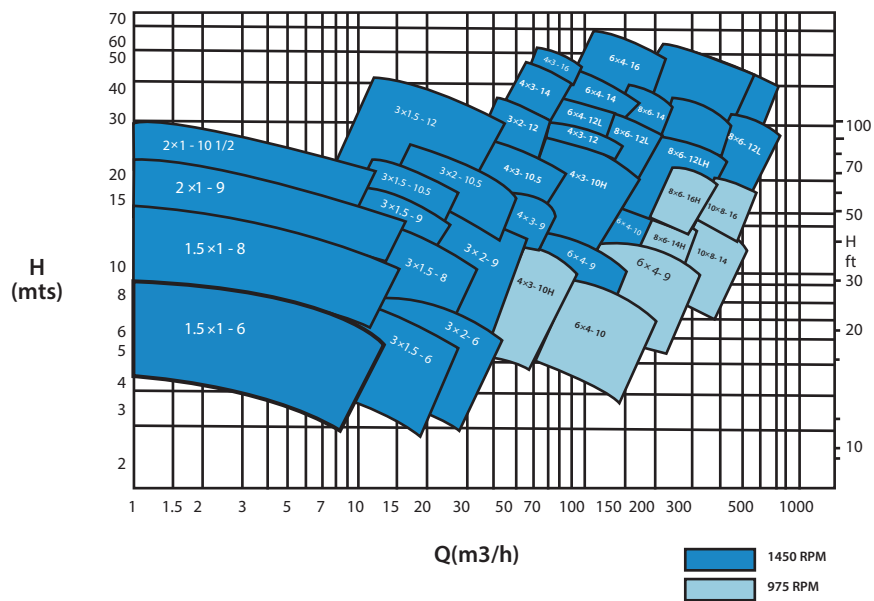
Our process are designed with encloses back of causing and contains stuffing box chamber. The Cover is fastened to frame or adopter so that a spare back pull-out assembly cab be stocked completely assembled. Cover can be supplied with jacket for cooling stuffing box chamber in high temperature servieces. Jacket can also be used for heating viscous or high freezing point liquid.

MSCP SERIES

Packed box has five rings of packing and lantern ring. Quench gland with water tapes and an auxiliary ring of packing is standard. Gland is split or easy removal. Tapped openings to lantern



1450 RPM



Application

Type of industries like Chemical, textile, Fertilizer, Paper & Pulp, Petrochemical, Food Processing, Sugar, Starch, Refinery, Powder Plant, Dairy, Pharmaceutical and Bulk Drugs, Oil Extraction etc.

Casing

High efficiency volute type. Suction and discharge nozzle as well as the supporting feet are cast integral with the casing.

Impeller

Enclosed type and accurately balanced dynamically. Hydraulically balanced by back vanes and for large impellers by balancing holes

Shaft

Three shaft units cover complete range of MEC pumps. Made of high tensile steel and accurately ground all over.

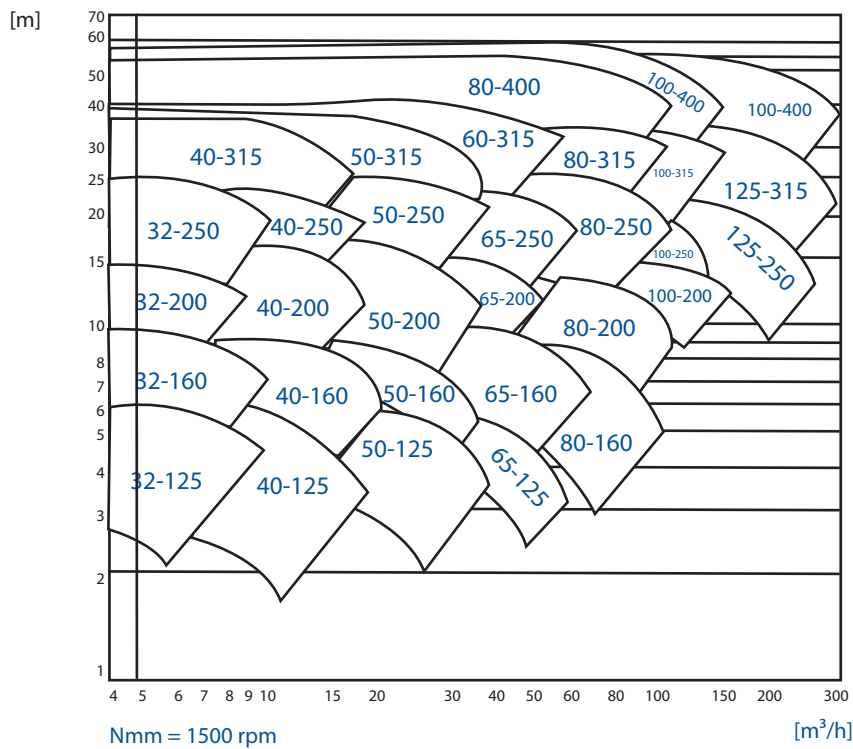
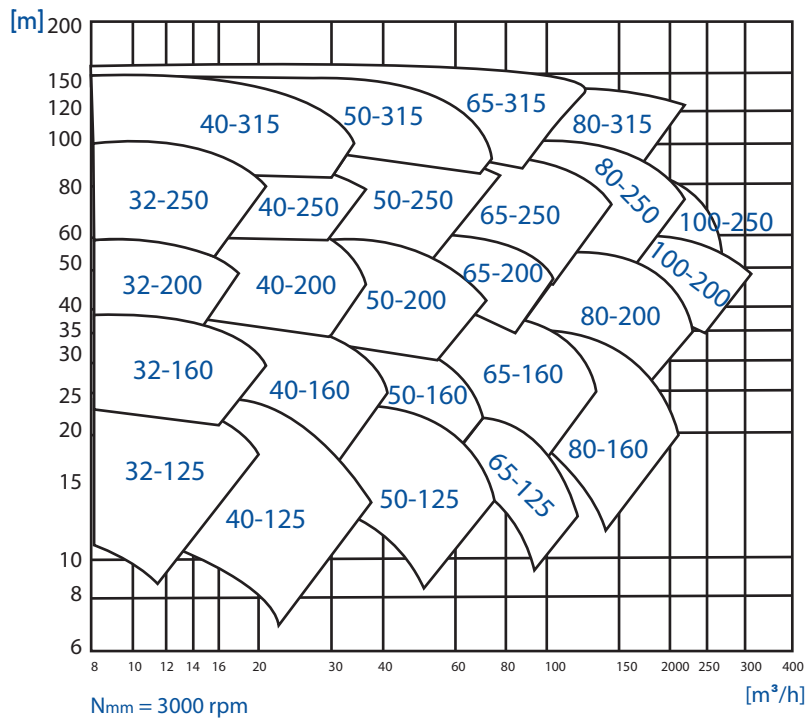
Stuffing Box

Available with suitable gland packing.
Mechanical seal arrangement available upon request.

Material of construction

Impeller : Cast Iron / SS - 316, Cast Steel / Bronze etc.
Pump Casting : Cast Iron / SS - 316, Cast Steel / Bronze etc.
Shaft / Sleeve : Cast Iron / SS - 316, Cast Steel / Bronze etc.
Sealing : Mechanical Seal / Gland Packing.

MEC SERIES



Range

Capacity : 400 m³ /Hr.
 Head : Up to 100 Mt.
 Temperature : Up to 350° C



End Suction Back Pullout Pumps

MSP SERIES

Application

Paper pulp industries.

Food, Sugar, Salt industries.

Organic/inorganic chemicals, volatile, liquids, corrosive, chemicals, caustic process, effluent, filter press, slurry application.

Pharmaceutical, dyes, textiles, kerosene, diesel and other solvents.

ETP, STP & waste water treatment plant, fertilizers, cement and steel industries.

For Pumping chemicals, with solids in suspension polluted liquids.

Hot and Cold water.

Features

Graded casting & EN-8/SS 316/SS-410 Shaft increases service life. Minimum need for inspection and maintenance because greased for life, external lubrication. Drive option of electric motor, coupled or best drive version or by Petrol/Diesel engine. Perfect sealing assured by high quality mechanical seal which can not run dry because of in-pump oil reservoir.

Material of Construction

Impeller	Cast iron/ SS -316, SS - 304/ Bronze or as per request
Pump Casting	: Cast iron/ SS -316, SS - 304/ Bronze or as per request
Shaft	: EN - 8 / SS - 316, SS - 304 OR as per request
Mechanical Seal	: Carbon Vs. Ceramic / Tc Vs. Tc with NBR / : Viton / PTFE



SELF PRIMING NON CLOG PUMP

MSP SERIES

Design

- Perfect self priming action with maximum suction head of 6 meters.
- Back pullout design, simplifies inspection and maintenance.
- Imellers with wider flow passage avoid clogging and can handle solids up to 24 mm diameter
- Compact, light weight and yet rugged construction.

Range

Capacity : Up to 270 m³/hr
 Head : Up to 57 Mt.
 Suction Head : Up to 6 Mt.
 Solids : Up to 24 mm Dia

MSP	3	6	9	12	15	18	24	30	36	45	60	75	M ³ /HR	*SIZE	#MM	HP
11-3	15.2 0.43	13.7 0.55	11.5 0.63	9.9 0.68									H mt Kw	1 1/4"	7.5	1
11-4	16.3 0.68	15.2 0.71	14.2 0.75	13.0 0.79	11.6 0.84	10.0 0.9								1 1/2"	12	1.5
128-5	20.0 1.1	19.0 1.12	17.8 1.16	16.5 1.21	15.4 1.29	14.0 1.36	10.2 1.49							2"	10	2
12-5		19.8 1.1	18.9 1.17	18.0 1.22	17.1 1.29	16.1 1.36	13.7 1.56	10.3 1.73						2"	13	3
12-6				19.2 1.58	18.5 1.6	18.0 1.66	16.7 1.79	15.5 1.97	14.4 2.15	12.0 2.15	4.0 2.65			2 1/2"	20	5
14-8					22.5 2.7	22.0 2.8	21.0 3.0	20.5 3.2	19.8 3.4	18.5 3.6	15.0 3.8	10.2 3.8		80 MM	24	7.5
15-6				29.0 2.85	28.0 2.95	27.0 3.05	25.0 3.25	23.0 3.5	20.8 3.7	16.0 3.95				2 1/2"	11	5
16-3	32.0 1.25	28.5 1.41	24.3 1.56	19.2 1.73	10.0 1.84									1 1/4"	6	3
16-6				35.0 3.55	34.5 3.7	34.0 3.2	34.4 4.25	31.0 4.6	29.0 4.95	22.5 5.3				2 1/2"	12	7.5

SPM SERIES

Salient Features

- The design speciality of these pumps allows pumping out certain amount of mud, dirt and suspended solids.
- Suitable for handling water and non corrosive liquids having temperature up to 60°C
- Non clog and semi open type impeller enables to handle solids of 7 to 40 mm as per model.
- Back pull out design enable to service without disturbing the pipe line.
- Easy maintenance with interchangeable parts and separate gland cover.

Application

- Suitable for pimping muddy water, sewage polluted liquids including solids etc.
- Dewatering docks, ports, vessels, swamps, basements, trenches, construction sites, swimming pool, etc.
- Transfer for chemicals, solvents, effluents, hot water, chilled water, condensate etc

Material for construction

- | | |
|----------------|--|
| • impeller | : Cast iron / SS – 316, SS – 304 / Bronze or as per request. |
| • casing | : Cast iron / SS – 316, SS – 304 / Bronze or as per request. |
| • shaft/sleeve | : En – 8 / SS – 316, ss – 304 or as per request. |

SPM SERIES

Approximate pformance of SPM Series, Priming, Coupled Pumps, at rated speed

Model	Power Rating		*Size (mm)	Impeller Dia (mm)	Total Head in Meters																		Solid handling Size (mm)	Rated Speed (rpm)
	KW	HP	SUC×CEL		6	8	10	12	14	15	16	18	19	20	22	24	25	26	28	30	32	34		
Motor Drive					Capacity in Liters per second																			
SPM 0	0.47	1.0	40×40	116	4.6	4.1	3.6	2.7	1.5	0.6	-	-	-	-	-	-	-	-	-	-	-	7.0	2900	
SPM 1H	1.5	2.0	40×40	134	-	-	6.3	5.6	4.9	4.4	4.0	2.8	1.9	0.9	-	-	-	-	-	-	-	8.5	2900	
SPM 3H	2.2	3.0	50×50	145	-	-	9.3	8.8	8.1	3.8	7.3	6.5	6.0	6.4	4.1	2.7	1.8	1.8	-	-	-	10.5	2900	
SPM3A	3.7	5.0	80×80	174	-	-	-	-	-	-	-	-	-	10.1	9.3	8.2	7.5	6.8	5.2	3.8	1.8	-	7.0	2900
SPM 3	5.5	7.5	80×80	174	-	-	-	-	-	-	-	-	-	16.4	16.2	15.5	14.8	14.0	12.5	10.2	8.0	5.5	14.5	2900
SPM 3L+	3.7	5.0	80×80	224	-	-	18.0	16.4	13.6	11.6	10.0	5.5	-	-	-	-	-	-	-	-	-	-	15.5	1450
SPM 4LA+	7.5	10.0	100×100	292	-	-	35.0	33.9	31.2	30.0	28.6	25.5	23.9	22.5	18.0	12.0	-	-	-	-	-	-	18.5	1450
SPM 4L+	9.3	12.5	100×100	292	-	-	81.5	39.5	36.6	35.3	33.6	30.5	28.3	26.2	22.0	17.0	14.0	10.0	-	-	-	-	23.0	1450
SPM GLA	15.0	20.0	150×150	296	-	-	66.3	63.4	59.8	57.5	55.0	48.8	45.5	42.5	34.2	23.8	-	-	-	-	-	-	34.0	1450
SPM GL	16.7	25.0	150×150	296	-	-	75.0	72.5	68.8	66.2	64.0	58.5	66.6	52.6	45.0	34.0	27.5	20.0	-	-	-	-	40.0	1450
Engine Drive					Capacity in Liters per second																			
SPM 3L+	4.0	6.0	80×80	224	-	-	-	17.7	15.6	14.0	12.5	8.5	6.0	305	-	-	-	-	-	-	-	-	15.5	1500
SPM 3L+	9.0	12.0	80×80	224	-	-	-	-	-	22.5	22.0	20.7	19.9	19.0	16.7	13.7	12.0	10.1	6.0	-	-	-	15.5	1800
SPM 4LA+	9.0	12.0	100×100	292	-	-	-	36.3	33.9	32.5	31.2	28.2	26.6	25.0	21.5	17.1	14.5	11.5	-	-	-	-	18.5	1500
SPM4L+	10.5	14.0	100×100	292	-	-	-	41.2	39.1	38.0	36.5	33.9	32.0	30.5	26.4	21.5	18.5	16.0	9.9	-	-	-	23.0	1500
SPM 6LA	16.5	22.0	150×150	296	-	-	68.0	66.1	63.0	62.0	59.0	53.5	51.7	48.0	41.0	32.8	28.4	22.5	-	-	-	-	34.0	1500
SPM 6L	19.5	26.0	150×150	296	-	-	77.5	75.0	72.0	71.0	68.0	63.0	62.0	57.0	51.0	42.5	38.8	32.5	-	-	-	-	40.0	1500

SELF PRIMING NON CLOG PUMP



MICP SERIES

Operation Data

Capacity	: Up To 350 M ³ /hr
Head	: Up To 150 Mtr
Temperature	: Up To 250° C
Discharge Size	: 25 Mm To 100 Mm
Pressure	: 15 Kg/cm ²
Speed	: Up To 3500 Rpm
M.O.C	: C.I, C.S, Ss-304 / 304l, Ss316l Bronze, Alloy-20, Cd4mcu Hast Alloy B & C, Etc...

Application

- Paper and pulp industries.
- Food, sugar, salt industries.
- Organic / inorganic chemicals, volatile liquids, corrosive chemicals, Casutic process, effluent, filter press, slurry application.
- Pharmaceutical, dyes, textiles, kerosene, diesel and other solvents.
- ETP, STP & waste water treatment plant, fertilizers, cement and steel industries.
- For pumping chemicals, with solids in suspension polluted liquids.
- Hot and cold water.

**CECHEMICAL PROCESS PUMPS
IN INVESTMENT CASTING**



MPOP SERIES

↪ Operation Data

Capacity	: Up To 200 M ³ /hr
Head	: Up To 50 Mtr
Temperature	: 30°C To 90°C
Discharge Size	: Up To 600 Mm
Pressure	: Up To 5.5 Kg/cm ²
Speed	: Up To 1500 Rpm
Impellers	: Semi Open Type / Close
Consistency	: 0% To 1.5%
M.O.C	: C.I., C.S. / S.S., 55 304, Ss 316, Ss 316 L Etc...

↪ Application

- Stock pump, refiners pump, fan pump, centri cleaner pump
- Back water pump, chest pump, separator pump, etc...
- Etp. Stp & waste water treatment plant, fertilizers, cement & steel industries.
- For pumping chemicals with solids in suspension polluted liquids widely used for public & civil engineering.



PULP & PAPER MILL PUMPS

MHOP SERIES

Operation Data

Capacity	: Up To 180 M ³ /hr
Head	: Up To 80 Mtr
Temperature	: Up To 350°C
Discharge Size	: 32 Mm To 80 Mm
Pressure	: Up To 8 Kg/cm ²
Speed	: Up To 3500 Rpm
Cooling Method	: With Air
M.O.C	: Grey Cast Iron, Cast Steel, Alloy Cast Steel

Application

- Petro-chemical industries, oil industries
- Synthetic-fiber industries, textile dyeing, printing industries
- Plastic and rubber industries, paper making industries
- Timber processing industries, sugar industries
- Food industries, construction industries

**CENTRIFUGAL AIR COOLED
HOT OIL PUMPS**



FDP SERIES

Submersible Dewatering Mud Pumps and Motors are fitted in single shaft. Motor above and pump below ensure to remove maximum sludge water from Pit.

↳ Technical Specification :

Head	: 30 Mtr
Capacity	: 2200 LPM
Delivery Size	: 100 mm Max.
Speed	: 2900 / 1450 rpm
Sealing	: Double Mechanical Seal Fitted
Connection Type	: Flanged
Protection	: IP 68/ DOL/DELTA
Material Of Construction	: CI /SS 304/SS316

**SUBMERSIBLE DEWATERING
MUD PUMP**



FTP SERIES

Air Cooled Canned Motor Pumps Design for High. Temperature application isolated Liquid in motor Section of the unit for Hot process Fluid in the pump casing with a series pressure pots located in the front bearing housing or pump casing adopter.

↳ Technical Specification :

Head	: 10 Kg/cm ²
Capacity	: 250 M ³ /Hour
Pump Size	: 25 mm to 300 mm
Speed Range	: 1440/ 2900 RPM
Temp	: 350 Degree
Sealing	: High Temp Sealing Fitted
Pump MOC	: CS , SS 316

↳ Application

Hot oil Transfer, Food Industries ,Boiler application, Thermic Fluid application, Hot water application



THERMIC FLUID AIR COOLED PUMP

FAOD SERIES

Air Operated Double diaphragm Pump operated with air Compressor. Its called Pneumatic Pump. It was Operational and maintenance Free Pump.

↳ Technical Specification :

Pressure	: 10 KG/CM2
Capacity	: 900 LPM Maximum
Connection Size	: ½" to 3 "
Material Of Construction	: Polypropylene, PVDF, SS304, SS316, Aluminium
Diaphragm MOC	: Neoprene, Sentropene, Teflon, Hypalon, EPDM
NRV Ball MOC	: Neoprene , Viton ,Teflon

↳ Application

Ink, colour, High Viscous Liquid, Acids, Low Viscous, Abrasives, Dyes, Solvents Transfer.

**AIR OPERATED DOUBLE
DIAPHRAM PUMP**



FVLP SERIES

Verticle long shaft Submersible Pump Industrial Usages Such as cooling, Heating, Circulating, Boosting, Air conditioning , Cold Storage System. Verticle Centrifugal Monoblock type Pump Fitted With Single Stage Closed Impeller In volute casing having Inline Suction and Delivery

↳ Technical Specification :

Head	: Up to 55 Mtr
Capacity	: 2000 LPM
Sealing	: Mechanical Seal Fitted
Operating Temp	: Up to 70 Degree
Rating	: 0.75 kw to 15 kw
Insulation	: Class B/F
Protection	: IP44 / I55
MOC	: CI , SS 304

AIR OPERATED DOUBLE DIAPHRAM PUMP



FFGP SERIES

Fuel Injection Gear Pump that is a provide mechanical seal that ensure Zero leakage. It is made available in both Clockwise and anti-clockwise Direction.

→ Technical Specification :

Pressure	: Up to 30 Kg/cm ²
Capacity	: 150 to 2500 LPH
Liquid Temp	: 250 Degree Max.
Viscosity Range	: 5 Cst to 450 Cst
Maximum Vacuum	: 600 to 650 hg
Size	: ½" BSP TO ¾" BSP
Testing Pressure	: 10 kg/cm ²

→ Application

Boilers, Oil Burner & Hydraulic Divise, Pressure & transfer Pump, Foce Feed Lubrica-
tion, Suitable HSD, LSHS, Furnace Oil ETC.



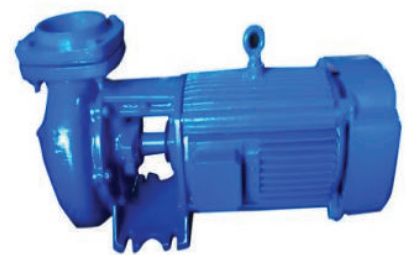
FUEL INJECTION GEAR PUMP

FMONO SERIES

Flow Line Pumps and Engineers Offered products are delivered after exact quality checks that are conducted by quality professionals in order to ensuring its fault lessens. This product is manufactured using premium quality material and advanced technology. These products are available at very affordable rates.

↳ Technical Specification :

Head	:	70Mtr
Capacity	:	300 LPM
Discharge Size	:	25 mm to 150 mm
Pump MOC	:	CI
Sealing	:	Mechanical Seal Fitted



CENTRIFUGAL MONO BLOCK WATER PUMP

FPVDF SERIES

Centrifugal PVDF Pump 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. Ideal for circulation of chemical in metal finishing industry.

↳ Technical Specification :

Head	: up to 90 Mtr
Capacity	: up to 250 M ³ /Hour
Discharge Size	: 25 mm to 100 mm
Max Temp	: 120 Degree
Pressure	: 9Kg/cm ²
MOC	: PVDF
Sealing	: Mechanical Seal /Gland Fitted



**Centrifugal Couple Drive
PVDF Pump**

FPP SERIES

Centrifugal Polypropylene Pumps is manufactured as per Customer specified. These are resistant to corrosion, robust and find application in pharmaceutical and paper & pulp industries. Offered at most competitive price, Polypropylene Pumps are available in various specifications to cater to diverse requirements of these industries.

↳ Technical Specification :

Head	: Maximum 50 mtr
Capacity	: 50 m3/Hour
Pump Speed	: 1440/2900 RPM
Connection Type	: Flange Ended
Pump MOC	: Polypropylene All Contact Parts
Max Temperature	
Polypropylene	: 50-60 Degree
PVDF	: 70-90 Degree

Centrifugal Polypropylene Pump



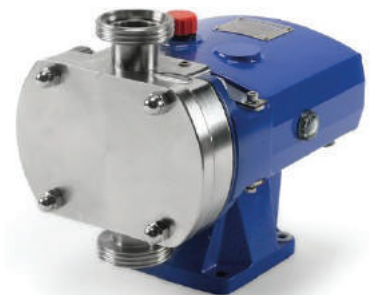
GSLB SERIES

Application

Pulp and paper industries, Chemical industries, Food industries, Besements, Pharmaceutical indutries, Biotechnology indutries.

Technical Specification

Solid Size	:	8 To 25 Mm
Del. Size	:	50 To 100 Mm
Speed	:	2900/1400 Rpm
Head	:	Up To 65 M
Flow	:	Up To 400 M ³
Hp	:	4 H.P. To 50 H.P.



Lobe Pump

GVSP SERIES

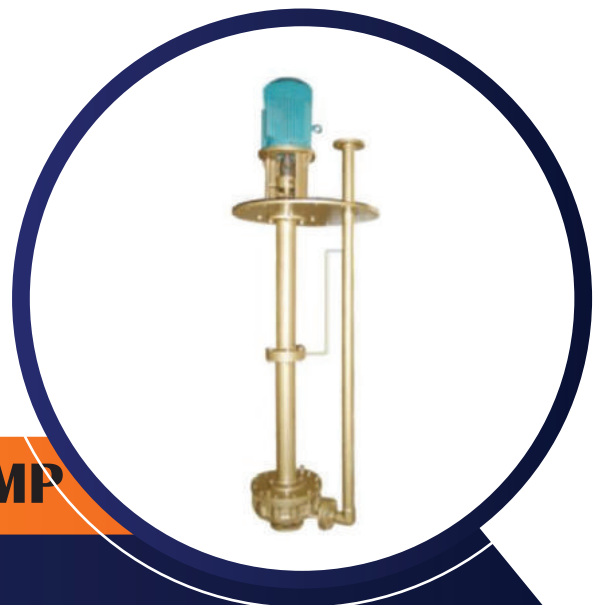
Application

the globe sump pump is suitable for handling thin, clean or slightly contaminated liquids, such as water, cooling water, effluent, cleaning products, chemicals and hydrocarbons sulphuric acid application, acid transfer, aquariums, chemical processing chloralkali, general processing industry, light slurries, organic chemicals, polymers, petrochemicals processing, slurries, solvents, waste processing

Technical Specification

Capacity	: UP TO 325 M ³ /hr
Head	: UP TO 60 Mtr
Discharge Size	: 25 mm TO 125 mm
Temperature	: UP TO 60° C
Pump Length	: UP TO 4 Mtr
Speed	: UP TO 3500 rpm
Pressure	: UP TO 6 kg/cm ²
Material	: C.I, C.S, SS-304 / 304L, S.S.316/316L, BRONZE, ALLOY-20, CD4MCU HARD ALLOY B & C, etc...

VERTICAL LONG SHAFT SUMP PUMP



GBFP SERIES

Application

Boiler Feed, Marine Fuel Oil, Power Plant, Industrial Clear Water condensate Water, Multi Storied Building Water Supply

Technical Specification

Head	:	Up To 250 Mtr
Flow	:	Up To 20m ³ / Hr
Temperature	:	Up To 105° C
Material	:	C.I, C.S, Bronze, C.I/s.s.

**HIGH PRESSURE MULTI STAGE
BOILER FEED PUMP**



GSPC SERIES

Application

Effluent Treatment, Pulp & Paper, Sugar & Distilleries, Chemicals & Petrochemicals, Ceramics & Insulator, Starch Industries, Sweets & Confectionaries, Dairy, Paints & Varnishes, Fruits & Vegetable Processing, Beverage Industries & Cosmetics & Medicines

Technical Specification

Capacity	: Up To 150 M ³ /hr
Pressure	: Up To 30 Kg/cm ²
Discharge Size	: 25 Mm To 150 Mm
Speed	: Up To 720 Rpm
Temperature	: Max 120° C
Viscosity	: Up To 1, 00,000 Cst
Solid Hand Size	: Max. 25mm
Material	: C.I., Wcb, Ss-304, Ss-304l, Ss-316, Ss-316l, Alloy-20 Ss-410, Tool Steel Etc....
Stator	: Natural, Nitrile, Neoprene, Epdm, Hypalon, Viton,



PROGRESSIVE CAVITY SCREW PUMP

GGP SERIES

Application

To Deliver Variety Of Light & Viscous Liquid Such As Oil, Fats, Coal Tar, Paints, Molasses, Highly Viscous Material And Liquids Paints, Ammonia, Glycerin, Grease Etc....

Technical Specification

Head	: Up To 120 Mtr
Flow	: Up To 200 M ³ /hr
Temperature	: Up To 250° C
Material	: C.I., C.I./s.s, S.S.316 / 316L
Speed	: 1440 Rpm
Type	: Mechanical Seal / Gland Type



ROTARY GEAR PUMP WITH HELICAL



MAFFS PUMPS
P V T L T D

Design and manufacture customized Mechanical seal. Now for last Fifteen years has been dedicated to develop and manufacture quality multistage vertical inline pumps. Our preent product range is 2M³ to 8M³ series pumps in stainless steel Fabricated parts. Each single pump undergoes full production testing. we are a team consisting qualified & dedicated engineers with skilled work force. Most of the parts of the spares are manufactured in house to keep hold on quality standards. Our pumps sales is backed by expert after sales service staff We stock large quantity of spares of our pumps which are always available without any delay & over charges. We believe in transparent & ethical dealing.



PUMPS & SPARES



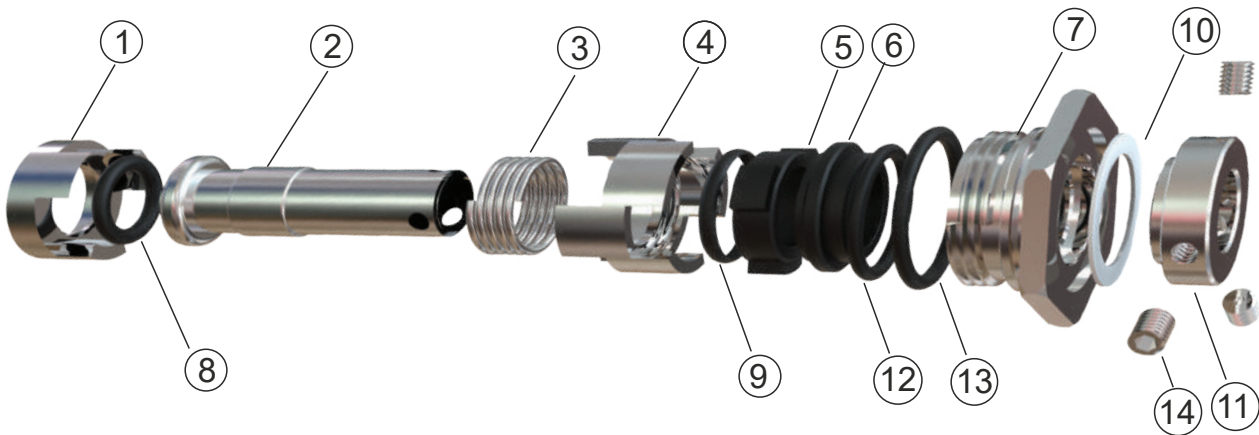
Main Components of pumps:-





Mechanical seals

Mechanical seals are leakage control devices, which are found on rotating equipment such as pumps and mixers to prevent the leakage of liquids and gases from escaping into the environment. Figure 1 shows a typical centrifugal pump, which highlights its constituent parts, including the mechanical seal.



Mechanical Seal Assembly



S.No.	PART NAME	QTY	MATERIAL
1	DRIVE COLLAR	1	SS304
2	SLEEVE	1	SS304
3	SPRING	1	SS304
4	MIDDLE DRIVE COLLAR	1	SS304
5	SEAL RING	1	SiC/TC
6	STATIONARY FACE	1	CARBON/SiC/TC
7	GLAND NUT	1	SS304
8	O RING	1	VITON/EPDM
9	O RING	1	VITON/EPDM
10	WASHER	1	PTFE
11	COLLER	1	SS304
12	O RING	1	VITON/EPDM
13	O RING	1	VITON/EPDM
14	M5-ALLEN BOLT	3	SS304

Our Range :-

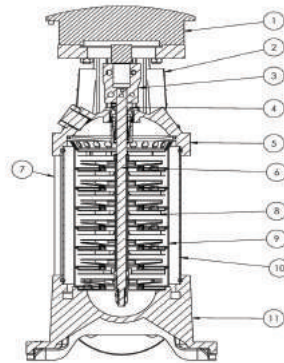
Our standards seals are manufactured in house, we are also OEM suppliers of these seals to Known pump manufactures. Standrard sizes are 12 mm,16mm, 22mm. These seals are also fit in other brands Pumps.



Pump Specification:



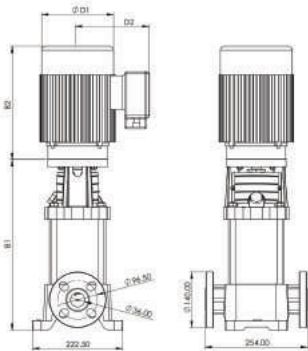
Cross Section View



BOM of Pumps

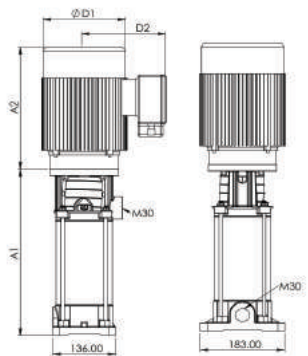
MAIN COMPONENT		
No.	Description	Material
1	Motor	
2	Coupling Cover	SS304
3	Coupling	Cast Iron
4	Mechanical Seal	Carbon/TC/Viton
5	Diffuser	SS304
6	Upper Casting	Cast Iron
7	Pump Shaft	SS304
8	Tension Bar	SS304
9	Impeller	SS304
10	Diffuser Assembly	SS304
11	Outer Sleeve	SS304
12	Base	Cast Iron

General Specification Detail Dwg:-



MODEL	SIZE(mm)				
	B1	B2	B1+B2	D1	D2
KP2-9	404.50	271.50	676.00	162.00	145.50
KP2-11	440.50	271.50	712.00	162.00	145.50
KP2-13	476.50	276.60	753.10	182.80	153.60
KP2-15	512.50	276.60	789.10	182.80	153.60
KP2-18	566.50	276.60	843.10	182.80	153.60
KP2-22	638.50	276.60	915.10	182.80	153.60
KP4-12	566.50	276.60	843.10	182.80	153.60
KP4-16	674.50	308.00	982.50	195.00	176.65
KP4-19	755.50	308.00	1063.50	195.00	176.65

Eco Type:-



MODEL	SIZE(mm)				
	A1	A2	A1+A2	D1	D2
KP2-9	389.45	271.50	660.95	162.00	145.50
KP2-11	425.45	271.50	696.95	162.00	145.50
KP2-13	461.45	276.60	738.05	182.80	153.60
KP2-15	497.45	276.60	774.05	182.80	153.60
KP2-18	561.45	276.60	838.05	182.80	153.60
KP2-22	623.45	276.60	900.05	182.80	153.60



Our Products:-
2 Series- Flange Type :-



KP2-9



KP2-11



KP2-13



KP2-15



KP2-18



KP2-22

2 Series- Eco Type :-



KP2-9



KP2-11



KP2-13



KP2-15



KP2-18



KP2-22

4 Series- Flange Type :-



KP4-12



KP4-16



KP4-19



KP4-22



Pumps Series - KP2-9 Technical Data:-

Flow rate : 0-89.4 L/m
Flow height: 84.3 m
Voltage : 214-223v
Frequency : 50 Hz
PF : 0.98
Material :Stainless steel

Pump Testing Data 2-9(1.5HP)							
Frequency-50HZ		PF-0.93					
SR NO	Voltage (V)	Current (A)	Input Power (W)	Output Power (W)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency%
1	223	5.2	1.1596	0.000	0	84.3	0.00
2	220	6.65	1.463	0.400	34.8	70.3	27.32
3	219.8	6.97	1.532006	0.466	45	63.4	30.43
4	217.8	7	1.5246	0.487	53.3	55.9	31.93
5	217.8	7	1.5246	0.465	62.9	45.2	30.47
6	217.8	7	1.5246	0.399	71.8	34	26.16
7	218.6	6.8	1.48648	0.330	78.2	25.8	22.18
8	215	6.5	1.3975	0.244	82.8	18	17.43
9	214	6.4	1.3696	0.188	85.2	13.5	13.72
10	214	6.32	1.35248	0.145	86.9	10.2	10.71
11	217	6.3	1.3671	0.1023	89.4	7	7.48

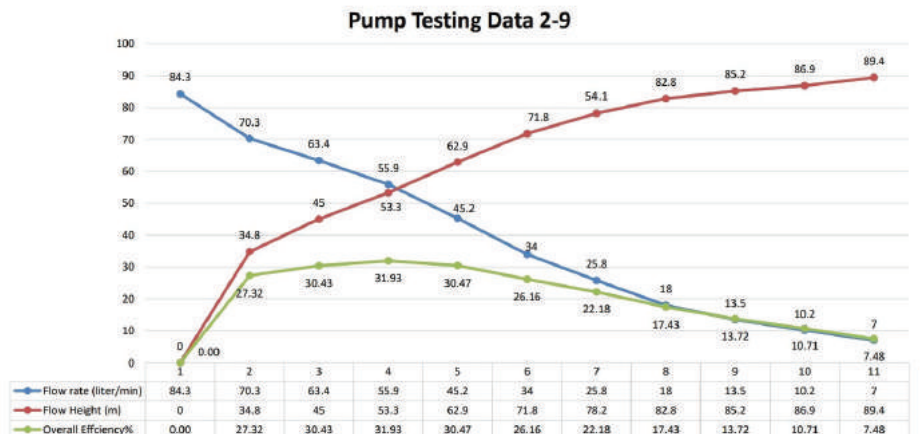
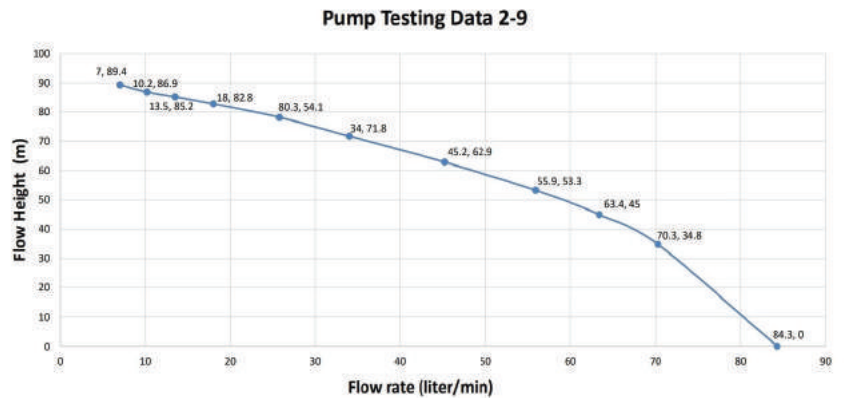
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC,Wire cut.



Model-KP2-9





Pumps Series - KP2-11

Technical Data:-

Flow rate : 0-87.7 L/m
 Flow height: 102.8 m
 Voltage : 238-240v
 Frequency : 50 Hz
 PF : 0.93
 Material :Stainless steel

Pump Testing Data 2×11(1.5HP)							
Frequency-50HZ		PF-0.93					
SR NO	Voltage(V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency(%)
1	240.00	8.20	1.97	0.25	0.00	102.80	9.60
2	238.00	8.70	2.07	0.47	36.20	84.80	18.00
3	238.00	9.00	2.14	0.65	48.90	72.60	24.40
4	239.00	9.00	2.15	0.81	54.90	65.00	30.10
5	237.20	8.90	2.11	0.94	63.90	53.60	34.00
6	237.00	8.87	2.10	1.04	69.20	46.20	37.30
7	237.00	8.60	2.04	1.08	75.10	32.80	39.10
8	237.50	8.60	2.04	1.06	79.20	26.10	38.90
9	239.30	8.85	2.12	0.96	82.80	20.00	37.20
10	238.00	8.40	2.00	0.73	84.90	15.30	31.90
11	238.90	8.40	2.01	0.34	87.70	10.00	18.80

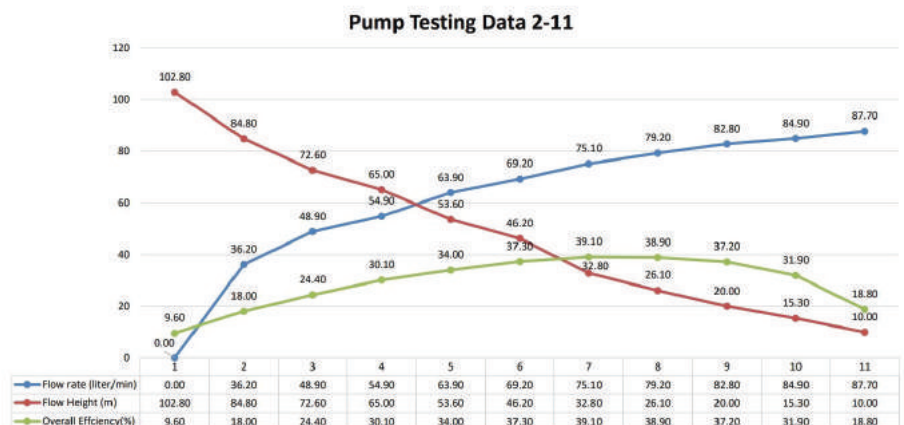
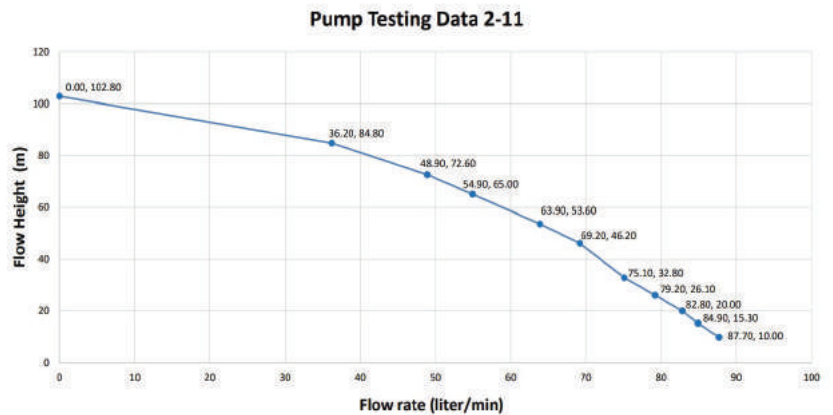
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut



Model-KP2-11





Pumps Series - KP2-13

Technical Data:-

Flow rate : 0-83.6 L/m
 Flow height: 129.2 m
 Voltage : 220v
 Frequency : 50 Hz
 PF : 0.98
 Material :Stainless steel

Pump Testing Data 2-13(3HP)							
Frequency-50HZ		PF-0.98					
SR NO	Voltage (V)	Current (A)	Input Power (W)	Output Power (W)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency%
1	220	8.14	1790.8	280.033	83.6	20.5	15.64
2	220	8.34	1834.8	393.627	80.3	30	21.45
3	220	8.63	1898.6	495.000	74.8	40.5	26.07
4	220	8.8	1936	575.980	70.5	50	29.75
5	220	8.98	1975.6	648.324	65.8	60.3	32.82
6	220	9	1980	695.098	60	70.9	35.11
7	220	9.1	2002	709.842	54.1	80.3	35.46
8	220	8.89	1955.8	690.863	47.4	89.2	35.32
9	220	8.4	1848	637.255	39	100	34.48
10	220	7.7	1694	496.912	27.9	109	29.33
11	220	6.17	1357.4	210.0000	10.8	119	15.47
12	220	5.22	1148.4	0.000	0	129.2	0.00

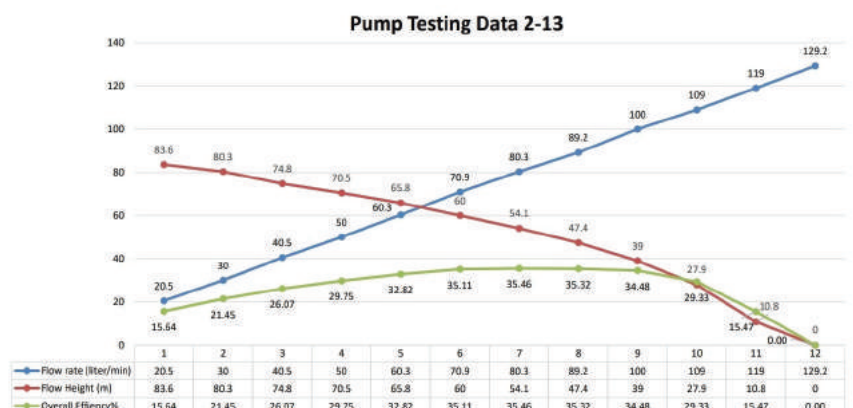
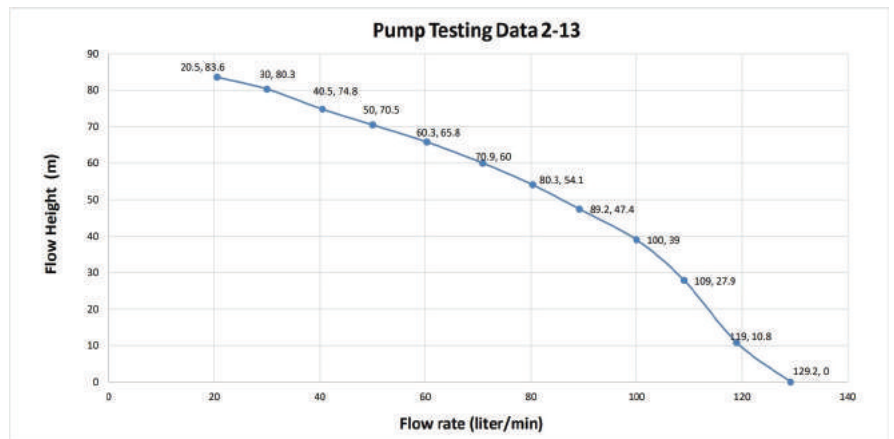
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut



Model-KP2-13





Pumps Series - KP2-15

Technical Data:-

Flow rate : 0-86.5 L/m
 Flow height: 143.7 m
 Voltage : 220v
 Frequency : 50 Hz
 PF : 0.98
 Material : Stainless steel

Pump Testing Data 2-15(2HP)							
Frequency-50HZ		PF-0.98					
SR NO	Voltage (V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency%
1	220	9.12	2.01	0.00	0.00	143.70	0.00
2	220	9.59	2.11	0.44	20.90	130.20	21.07
3	220	9.86	2.17	0.67	34.00	119.80	30.68
4	220	9.98	2.20	0.75	41.40	111.30	34.29
5	220	10.15	2.23	0.81	49.30	100.60	36.29
6	220	10.38	2.28	0.83	55.10	91.80	36.19
7	220	10.45	2.30	0.79	60.80	79.70	34.44
8	220	10.37	2.28	0.76	66.10	70.40	33.33
9	220	10.24	2.25	0.69	71.00	59.60	30.69
10	220	9.73	2.14	0.60	75.00	49.30	28.22
11	220	9.13	2.01	0.52	78.30	40.30	25.67
12	220	7.73	1.70	0.41	82.00	30.60	24.11
13	220	5.78	1.27	0.28	86.50	19.90	22.12

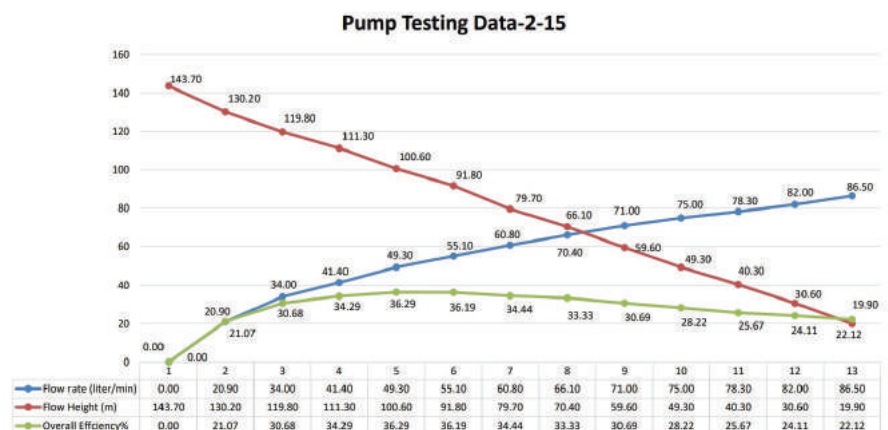
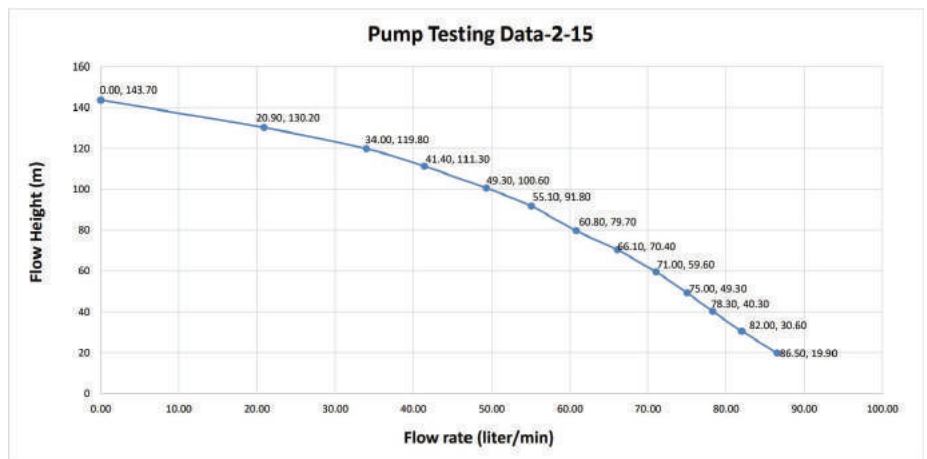
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut



Model-KP2-15





Pumps Series - KP2-18

Technical Data:-

Flow rate : 0-77.5 L/m
 Flow height: 171.6 m
 Voltage : 220v
 Frequency : 50 Hz
 PF : 0.98
 Material : Stainless steel

Pump Testing Data 2-18(3HP)							
Frequency-50HZ		PF-0.98					
SR NO	Voltage(V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency %
1	220	7.50	1.65	0.00	0.00	171.6	0.00
2	220	9.62	2.12	0.46	17.60	159.5	21.67
3	220	11.80	2.60	0.86	37.50	140.5	33.16
4	220	12.23	2.69	0.94	44.30	130.5	35.11
5	220	12.46	2.74	0.98	49.2	121.5	35.63
6	220	12.65	2.78	0.99	54.5	111.2	35.58
7	220	12.61	2.77	0.98	59.7	100.5	35.34
8	220	12.53	2.76	0.94	64.00	90.0	34.14
9	220	12.39	2.73	0.90	67.00	82.0	32.93
10	220	11.93	2.62	0.82	71.50	70.0	31.16
11	220	11.70	2.57	0.65	77.50	51.0	25.09

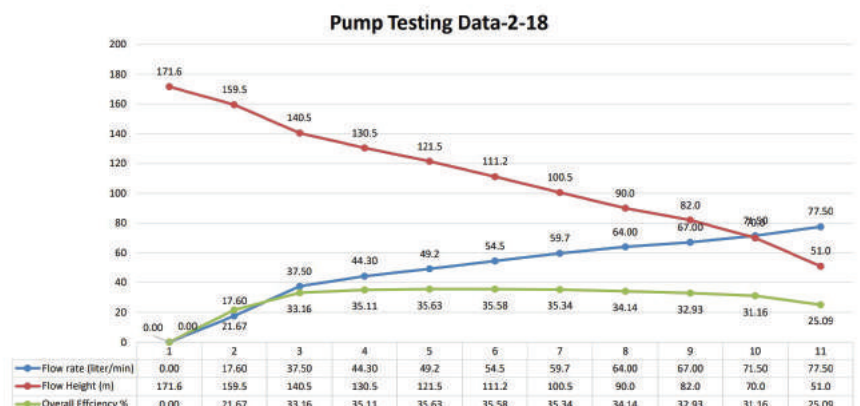
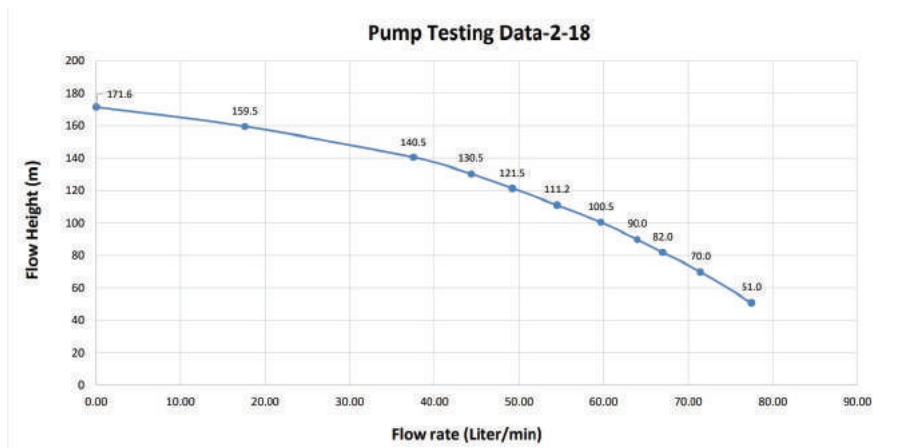
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut



Model-KP2-18





Pumps Series - KP2-22

Technical Data:-

Flow rate : 0-86 L/m
 Flow height: 208.7 m
 Voltage : 216-230v
 Frequency : 50 Hz
 PF : 0.93
 Material : Stainless steel

Pump Testing Data 2-22(3HP)							
Frequency-50HZ		PF-0.93					
SR NO	Voltage (V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency%
1	230.00	9.30	2.14	0.00	0.00	208.70	0.00
2	223.00	12.70	2.83	0.77	26.00	181.00	27.15
3	219.00	14.00	3.07	1.05	38.80	165.40	34.20
4	217.80	14.93	3.25	1.21	52.70	140.30	37.15
5	216.20	15.00	3.24	1.17	59.50	120.70	36.18
6	217.00	14.80	3.21	1.09	64.50	103.50	33.96
7	219.30	14.38	3.15	0.97	71.90	82.90	30.88
8	219.60	13.84	3.04	0.78	78.20	60.70	25.52
9	217.60	13.29	2.89	0.55	82.80	41.00	19.18
10	218.00	13.00	2.83	0.44	85.20	31.40	15.42
11	221.00	12.86	2.84	0.34	86.00	24.50	12.11

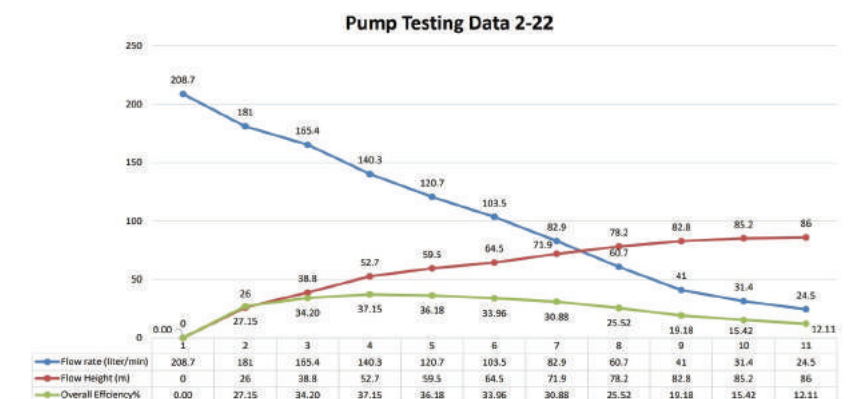
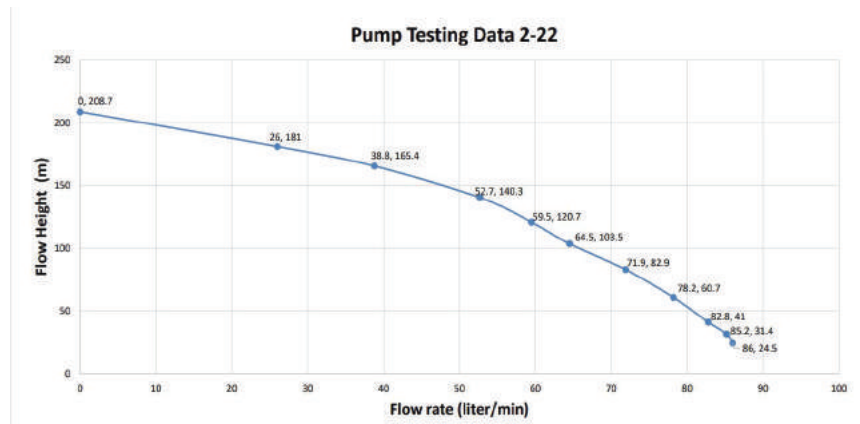
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut



Model-KP2-22





Pumps Series - KP4-12

Technical Data:-

Flow rate : 0-147.3 L/m
 Flow height: 110.3 m
 Voltage : 220v
 Frequency : 50 Hz
 PF : 0.97
 Material :Stainless steel

Pump Testing Data 4 -13(3HP)							
Frequency-50HZ		PF-0.97					
SR NO	Voltage(V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency(%)
1	220	11.60	2.55	0.25	147.30	10.20	9.60
2	220	11.87	2.61	0.47	139.00	20.70	18.00
3	220	12.10	2.66	0.65	132.20	30.10	24.40
4	220	12.27	2.70	0.81	123.50	40.30	30.10
5	220	12.56	2.76	0.94	115.00	50.00	34.00
6	220	12.63	2.78	1.04	105.10	60.40	37.30
7	220	12.60	2.77	1.08	94.70	70.10	39.10
8	220	12.36	2.72	1.06	80.50	80.50	38.90
9	220	11.67	2.57	0.96	64.90	90.10	37.20
10	220	10.40	2.29	0.73	44.60	100.20	31.90
11	220	8.32	1.83	0.34	19.10	110.30	18.80

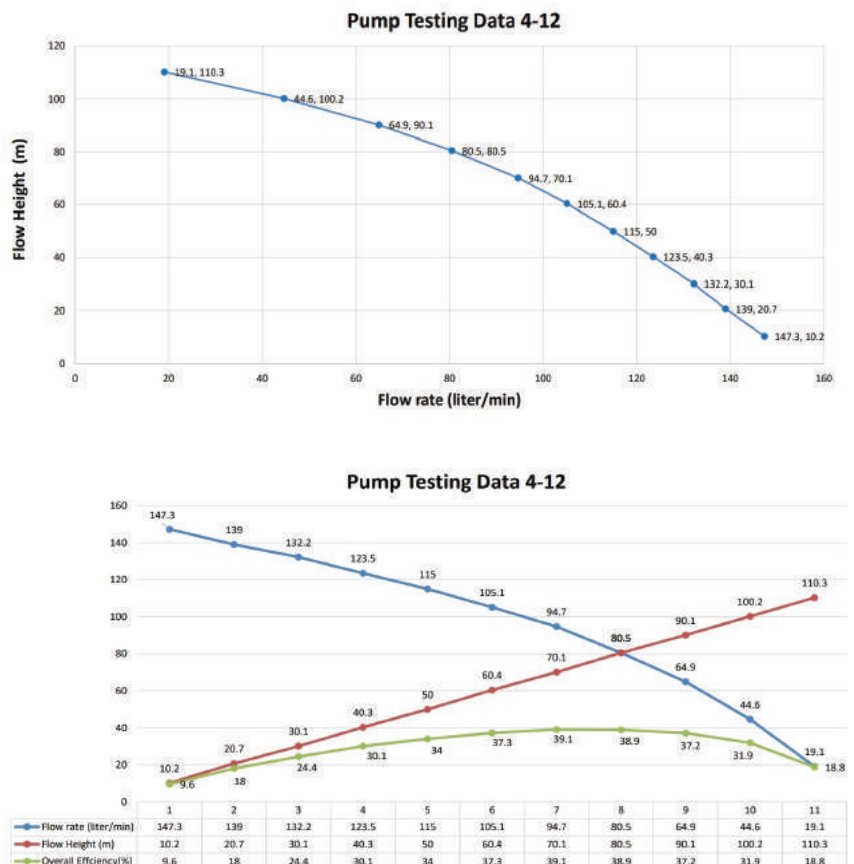
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut



Model-KP4-12





Pumps Series - KP4-16 Technical Data:-

Flow rate : 0-133.5 L/m
Flow height: 156 m
Voltage : 215-230v
Frequency : 50 Hz
PF : 0.98
Material : Stainless steel

Pump Testing Data 4 -16(4HP)							
Frequency-50HZ		PF-0.98					
SR NO	Voltage (V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency(%)
1	230	8.00	1.84	0.00	0.00	156.00	0.00
2	223	10.79	2.41	0.64	27.00	146.00	26.77
3	219	13.00	2.85	0.97	43.60	135.90	34.01
4	216.9	14.30	3.10	1.19	57.60	126.00	38.23
5	217	15.40	3.34	1.33	70.20	116.00	39.82
6	215	15.70	3.38	1.38	79.80	106.00	40.95
7	218	15.90	3.47	1.45	92.00	96.60	41.89
8	217.9	16.00	3.49	1.39	99.00	86.00	39.90
9	217	15.90	3.45	1.22	113.10	66.20	35.46
10	217	15.50	3.36	0.93	125.50	45.20	27.55
11	218	15.11	3.29	0.66	133.50	30.20	20.00

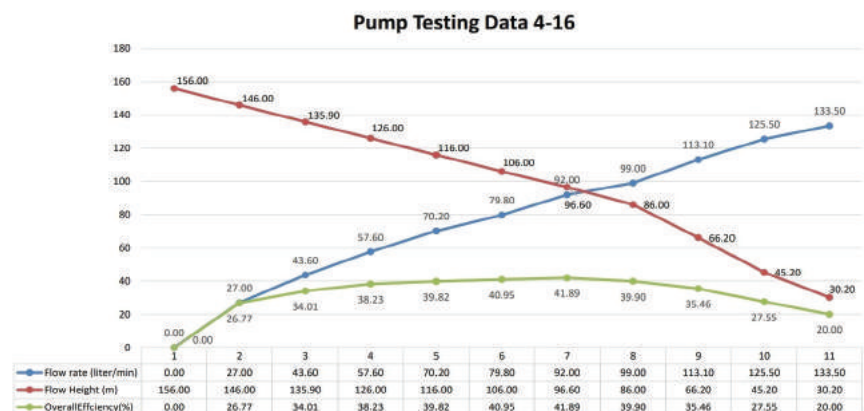
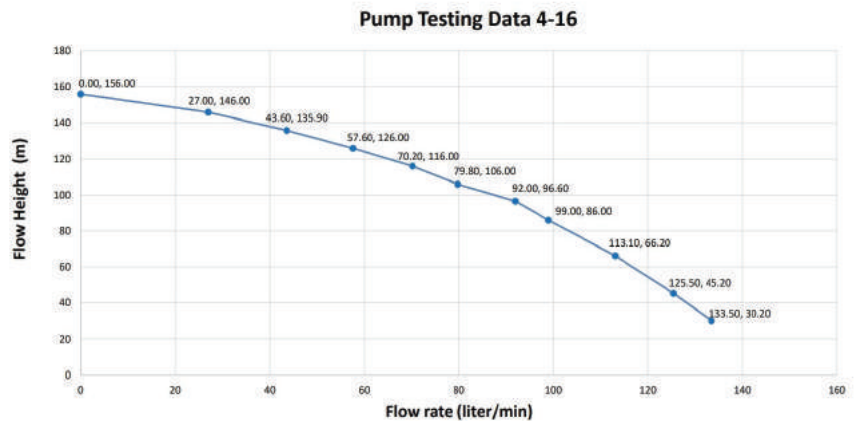
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut.



Model-KP4-16





Pumps Series - KP4-19

Technical Data:-

Flow rate : 0-146.3 L/m
 Flow height: 184 m
 Voltage : 214.5-232v
 Frequency : 50 Hz
 PF : 0.98
 Material :Stainless steel

Pump Testing Data 4 -19(4HP)							
Frequency-50HZ		PF-0.98					
SR NO	Voltage (V)	Current (A)	Input Power (KW)	Output Power (KW)	Flow rate (liter/min)	Flow Height (m)	Overall Efficiency%
1	232	9.90	2.30	0.00	0.00	184.00	0.00
2	221	15.26	3.37	1.15	44.20	159.30	34.11
3	219	17.10	3.74	1.43	60.00	145.80	38.17
4	217	18.50	4.01	1.61	76.00	130.00	40.21
5	215.6	19.20	4.14	1.68	89.60	115.00	40.67
6	214.5	19.10	4.10	1.65	100.90	100.00	40.24
7	220	18.94	4.17	1.49	113.90	80.00	35.73
8	223	18.50	4.13	1.22	124.40	60.00	29.56
9	224	18.00	4.03	0.87	133.80	40.00	21.69
10	224	17.78	3.98	0.68	138.00	30.00	16.99
11	225	17.36	3.91	0.24	146.30	10.00	6.12

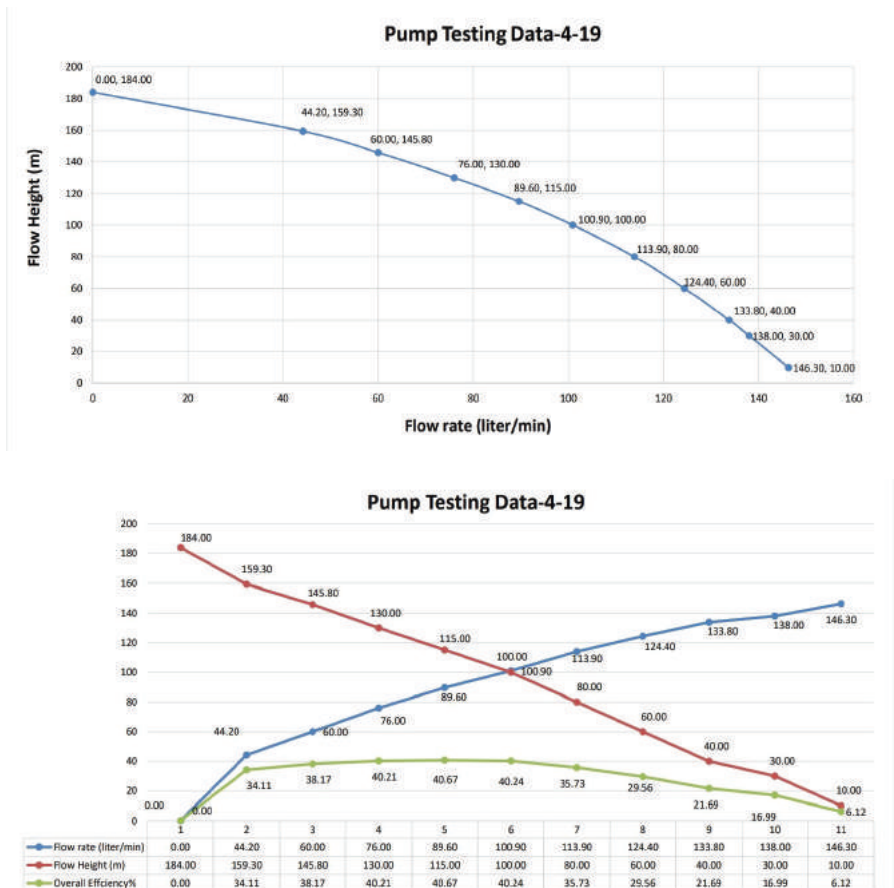
Performance Chart :-

Application:-

- > Water supply System
- > Ro Plant
- > Industrial washing system
- > STV Plant
- > Boiler feed system
- > Heavy machinery like VMC, Wire cut.



Model-KP4-19



Centrifugal Pump Data Sheet



Facility	_____	Address	_____
Name	_____		_____
Installed	_____	Area	_____
Location	_____		_____

Operating Conditions (at installation)

Capacity (GPM)	_____
Suction Pressure (PSI)	_____
Discharge Pressure (PSI)	_____
Head Pressure (TDH)	_____
Speed (RPM)	_____
Ambient Temperature	_____
Pump Mounted (Inside or Outside)	_____

Liquid Data

Liquid Description	_____
Temperature	_____
Specific Gravity	_____
Viscosity (cp)	_____
pH	_____
Solid Size & Content	_____

Pump Data

Manufacturer	_____
Model	_____
Serial Number	_____
Pump Size	_____
- Discharge Diameter	_____
- Inlet Diameter	_____
- Case Size	_____
Impeller Diameter	_____
Material of Construction	_____
- Case Material	_____
- Impeller Material	_____

Sealing Data

Packing or Mechanical Seal	_____
Mechanical Seal Information	_____
- Single Seal or Double Seal	_____
- Component or Cartridge	_____
- Seal Manufacturer	_____
- Face Materials	_____
- O Ring Compound	_____
- Flush	<input type="checkbox"/> Yes / No <input type="checkbox"/>
Shaft Size	_____

Motor Data

Horsepower	_____
3 Phase or 1 Phase	_____
Speed (RPM)	_____
Voltage	_____
Frame	_____
Enclosure	_____
Service Factor	_____
Full Load Amps	_____
Amp Reading (Under Load)	_____
Amp Reading (No Load)	_____
Manufacturer	_____

Drive Data

Coupling Drive or Belt Drive	_____
Coupling Information	_____
- Coupling Brand	_____
- Coupling Model	_____
- Coupling Size	_____
- Insert Material	_____
Motor Shaft Size	_____
Pump Shaft Size	_____

Regd Office 303, Badhra Apartment, Western Park, Misquita Wadi, Western Express
Highway No. 8, Mira Road (East) Dist. Thane 401107, India.

Contact No 982056025
www.maffspumps.com

Pumps Spare Part

Sub Pump Spare

Manufacturer and Developer of Pump and Pumps Spares As per customer Requirements Equivalent to any National and International Brand.

Spare Parts:- Casing, Impeller, Gland, Shaft, Bearing Bracket, Support Foot, Gland Packing, Mechanical Seal, Gasket etc.



MAFFS PUMPS
P V T L T D



Factory Address:-

**134, Industrial Estate, Sangli - 416416 (M.S. - India)
Contact 9820568022**

**Regd Office 303, Badhra Apartment, Western Park,
Misquita Wadi, Western Express Highway No. 8,
Mira Road (East) Dist. Thane 401107, India.**

Contact No 9820568098

**E-Mail : sales@maffspumps.com
www.maffspumps.com**