

SLEF PRIMING NON-CLOG PUMP (Mechanical Seal Type)

Application :

- Dewatering, Mud Marine, Effluent, Hotel, Loading & Transfer of Oils, Spirits, Swimming Pools, Gas Oils, Engine Cooling.
- Vessels, Industrial-pumping petroleum products, Chemical.
- Civil construction dewatering, Foundations, Trenches and Pits, Filter press feeding, ETP, STP, Waste water treatment plant.
- Mobile machinery- cooling water for marine engines and shovels.
- Public utilities sewage pumping,
- Pier, Excavations, Pits Pot-holes etc., Gram Panchayat, Municipalities, Public Health Department, Large housing colonies, industries like Chemical, Pharmaceuticals, Food, Cement, Paper, Sugar, Salt, Steel and other for liquid cargo from Freighter, Barges.

ROTATION :

Marked with arrow on casing of each pump, Check before coupling with prime mover.

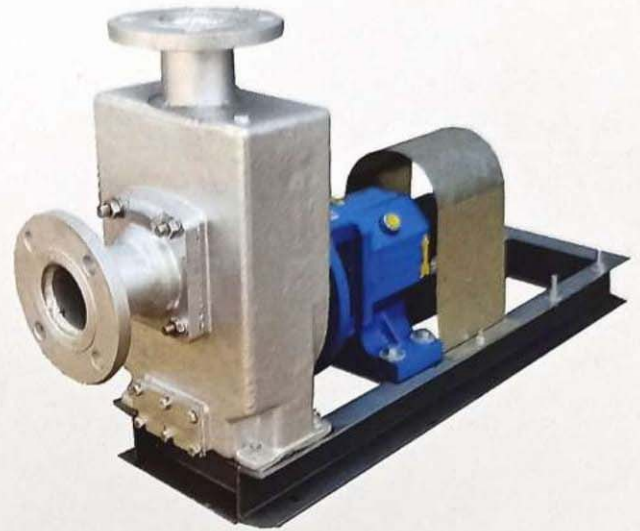
BASEPLATE :

Suitable base frame can be supplied with pump.

M.O.C.: C.I., C.S., SS 304, SS 316, Bronze, Alloy 20, CD4MCU etc.,

DESIGN:

Perfect self priming action with maximum suction head of eight mtrs. Impellers with wider flow passage avoid clogging and can handle solids up to 25 mm dia. Back pullout design, simplifies inspection and maintenance. Compact, light weight & rugged construction.



FEATURES :

Perfect sealing assured by high quality mechanical seal which cannot run dry because of internal oil reservoirs.

Graded casting & SS shaft, increase service life.

Bearings greased for life, sve external lubrication Minium need for inspection and maintenance.

Drive options of electric motor, coupled or belt drive versions or by petrol / diesel engine.

MECHANICAL SEAL OPTION :

STV (Carbon v/s Ceramic / Tc with NBR Elastomer)

CCV (Carbon v/s Ceramic / Tc with Viton Elastomer)

CCT (Carbon v/s Ceramic / Tc with PTFE Elastomer)

PERFORMANCE CHART

RPM 2900 Hz-50

MODEL	Size (mm) SUC. DEL.	Solid Handling Size (mm)												Capacity M ³ /hr	Weight Kgs				
			3	6	9	12	15	18	24	30	36	45	60			75			
SSP-11/3	32	7.5	15.2/0.43 0.6	13.7/0.55 1.5	11.5/0.63 2.8	9.9/0.68 4.3											Hm/Kw NPSH	15	
SSP-11/4	40	12	16.3/0.68 0.6	15.2/0.71 1.0	14.2/0.75 1.3	13.0/0.79 1.9	11.6/0.84 2.9	10.0/0.9 4.8											17
SSP-12B/5	50	10	20.0/1.10 1.2	19.0/1.12 1.25	17.8/1.16 1.4	16.5/1.21 1.6	15.4/1.29 2.1	14.0/1.36 2.8	10.2/1.49 5.0										30
SSP-12/5	50	13		19.8/1.10 1.2	18.9/1.17 1.3	18.0/1.22 1.6	17.1/1.29 2.0	16.1/1.36 2.8	13.7/1.56 5.0	10.3/1.73 7.3									30
SSP-12/6	65	20				19.2/1.58 0.9	18.5/1.60 1.0	18.0/1.66 1.1	16.7/1.79 1.5	15.5/1.97 1.9	14.4/2.15 2.7	12.0/2.45 4.4	4.0/2.65 9.2						40
SSP-14/8	80	24					22.5/2.7 1.7	22.0/2.8 1.7	21.0/3.0 1.7	20.5/3.2 1.8	19.8/3.4 2.0	18.8/3.6 2.6	15.0/3.8 4.4	10.2/3.8 7.5					46
SSP-16/3	32	6	32.0/1.25 0.35	28.5/1.41 1.0	24.3/1.56 2.0	19.2/1.73 4.3	10.0/1.84 8.0												26
SSP-16/6	65	12				35.0/3.55 2.5	34.5/3.7 2.5	34.0/3.2 2.6	34.4/4.25 3.0	31.0/4.6 3.8	29.0/4.95 5.4	22.5/5.3 7							40

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



CENTRIFUGAL PROCESS PUMP

Application

Hot and cold water circulation, Cooling water circulation. Drip irrigation, Water supply and Building services. Thermic fluid, Jet dyeing, Volatile fluids, Heat exchanger. Condensate handling, Fire fighting system Environmental engineering, Marine, Refrigeration and Cooling tower installation etc. Chemicals, Petrochemicals, Pharmaceuticals, Refineries, Steel plant, Sugar, Paper, Laminates industries, Textiles, Rubber, Handling of Hydrocarbons, organic and inorganic chemicals, DM-water, Food industries, Salt plants, Power plants and in industries such as Pulp, Fertilizer and other Process industries etc. Corrosive and Abrasive process chemicals like Acids, Alkalis, Solvents, Slurries, Crystallizing Liquids Nitric Ammonia Phosphate, Chemical effluents, etc.

Features

Improved efficiency and improve NPSH requirement by better hydraulic design of impellers (vanes). Lower energy costs. Operating costs reduced by trimming the impeller diameter to match the specified duty point. Little wear, low vibration levels and excellent smooth running characteristics thanks to good suction performance and virtually cavitation-free operation across a wide operating range. Casing sealed reliably – even in varying operating conditions – by confined casing gasket. Large variety of materials for perfectly matching the pump to the fluid handled. Large range of materials for many applications available as a standard. Easy to dismantle casing cover and bearing bracket lantern screw are available.

Volute Casing

One piece self venting volute casing design with end suction and top centerline delivery connections. The pump feet are integrally cast into volute casing. The feet at bottom transfer residual pipe stress shortest possible route to the base plate and foundation.

Impeller

Depending on process parameters Closed or a semi open impellers are given for low NPSH requirements. Hydraulically balanced by back vanes, or in the case of large impeller diameters by balancing holes and wear rings on both sides. Reliable fixing of an impeller on the shaft by impeller nut.

Shaft Sealing

Supplied with either gland packing or mechanical seals in a stuffing box with connection for sealing and cooling/flushing liquid. Simple change over from packing to a mechanical seal is possible with the aid of standardized conversion kits. Mechanical seal of various makes and seal faces MOC, unbalanced as well as balanced ones can be easily fitted in the standard stuffing box.

Shaft & Bearings :

The shaft is guided in oil lubricated angular contact and cylindrical roller bearings. The alignment of bearings is ensured by appropriate centering and modern manufacturing methods. The shaft is fully protected from the liquid to be pumped by means of fully enclosed PTFE Gasket between the impeller nut-shaft and shaft sleeve. The properly dimensioned shaft exhibits minimum deflection at a stuffing box, resulting in long operational life for mechanical seals.

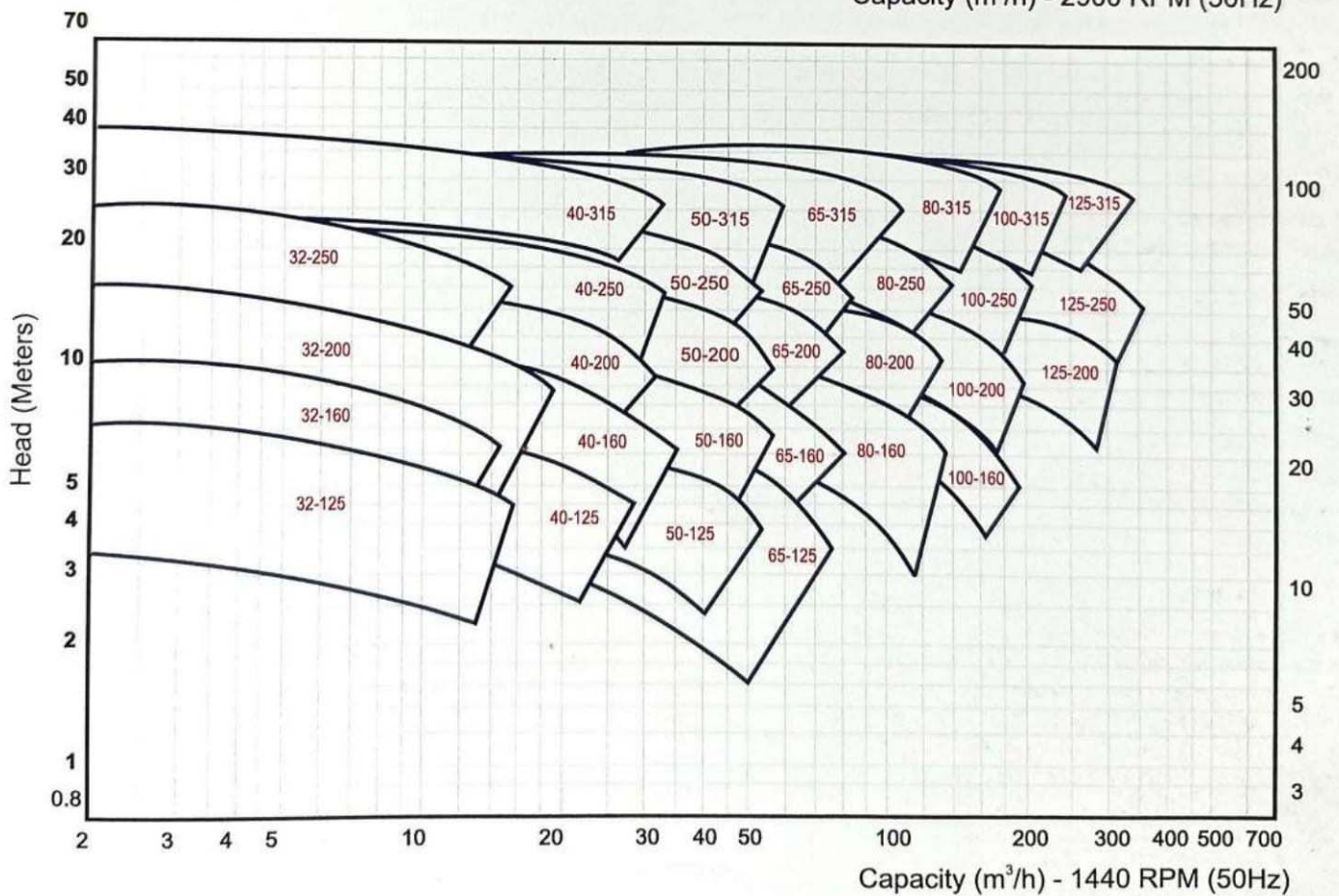
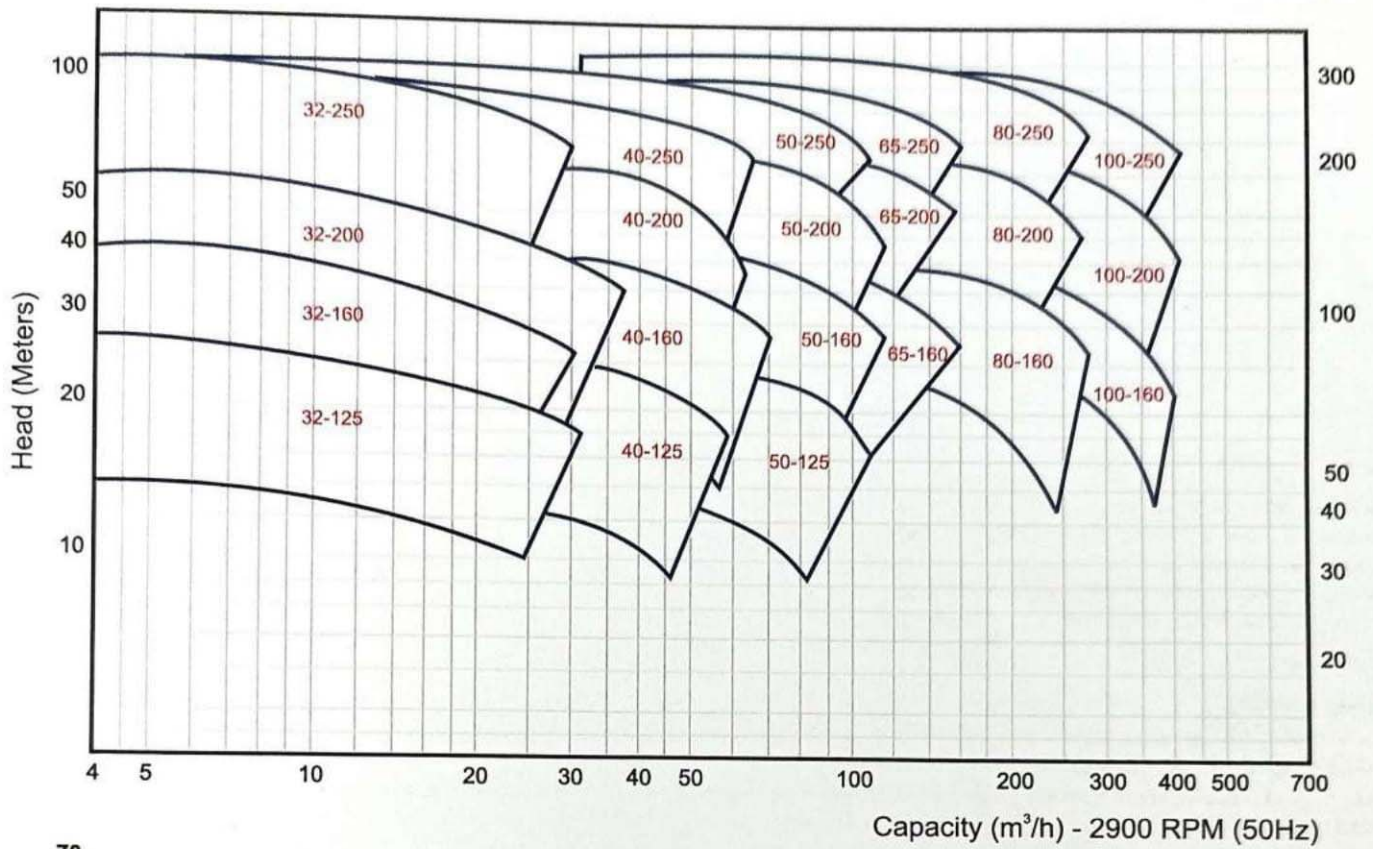
Bearing Frame

The entire range of pump models is covered in just four numbers of bearing frames.

All pumps belonging to a bearing frame have identical shaft, bearings, shaft sleeves and impeller fastenings. In addition to standard sight glass every bearing frame can be equipped with a constant level oiler. For pumping temperature more than 180°C or 160°C in case of steam jacketed pumps, a lubricating oil cooling circuit can be fitted in the of oil pumps bearing frames.

Parameters	Designed To Conform	DIN 24256 , ISO 2858 , EN 733
End connections		DIN 2533, DIN 2543, ASA150 or ANSI B-16.5
Working ranges	Speed 1450 rpm discharge up to 1100 m ³ /hr heads up to 60 mts. Speed 2900 rpm discharge up to 380 m ³ /hr heads up to 110 mts.	
Working Pressure	Grey Cast Iron Steel, Iron Cast stainless Steel , Alloy cast steel Depend Upon Pump Size And Pumping Temperature	16 Kg/cm ² PRESSURE RATING 20 Kg/cm ² PRESSURE RATING
Working Temperature Limits	Grey Cast Iron /S.G , Iron Cast Alloy Cast Steel	From 200° max / 300° max / 350° max
Materials of Construction	Standard Design Special Design	SS 304 /SS 304L /SS 316L HASTALLOY B/C / NI HARD Grey Cast Iron /Cast Steel /SS 316 S.G Iron / CD4MCU /ALLOY 20 /BRONZE

CI PUMP SERIES



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



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.

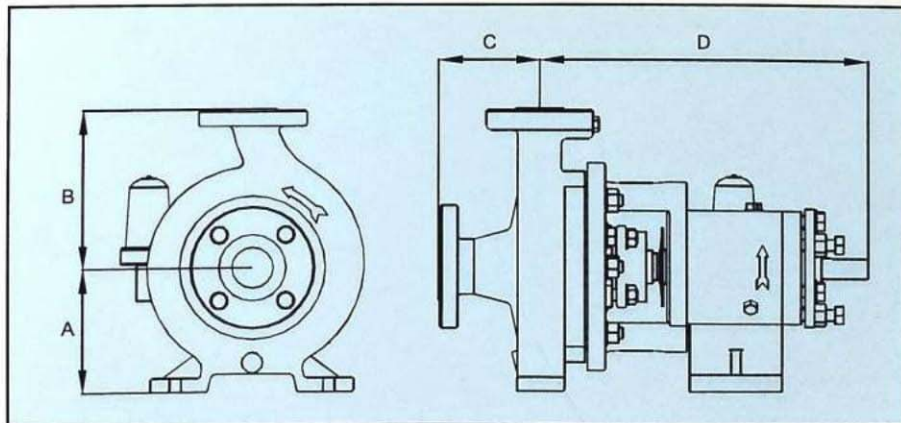
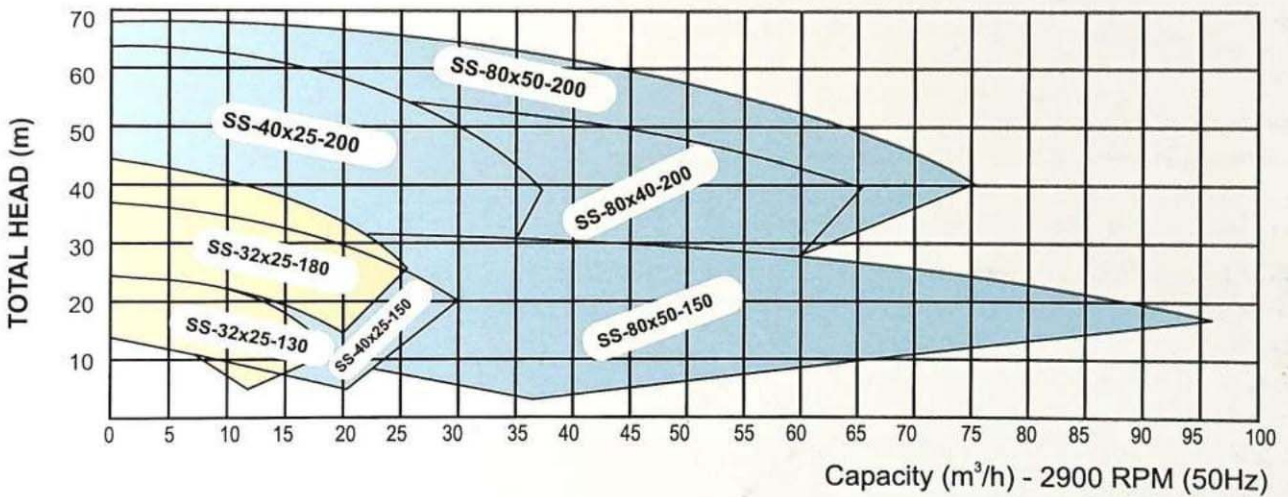
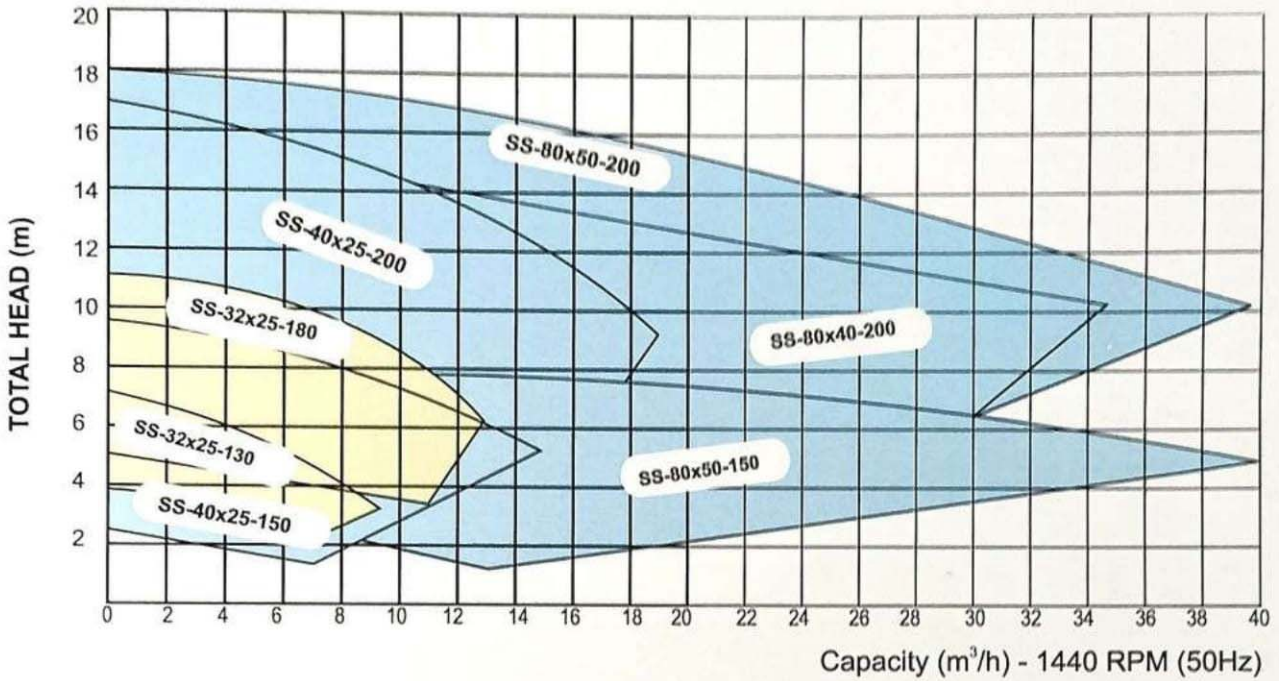
Shaft & Bearings : Heavy-duty shaft designed for minimum deflection at seal faces-less than 0.05mm.

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

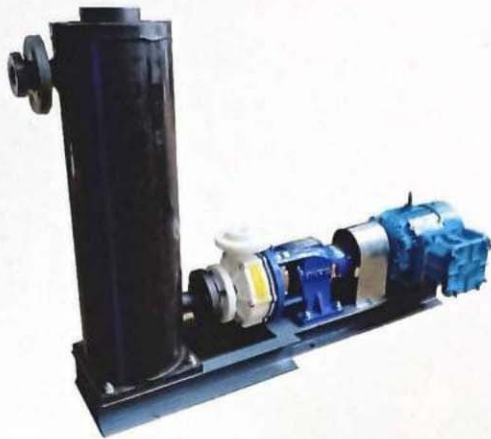
Bearing Frame Foot : Reduce effects of pipe loads on shaft alignment ; pump vibration reduced.

Series	Pump Size	Suc tion Size	Deli very 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	

SS PUMP SERIES



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



PP PUMP WITH PRIMING CHAMBER



POLYPROPYLENE PUMPS

Features

- + Suitable for corrosive duties in the Process and Chemical industries.
- + Can work continuously.
- + 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 70°C.

Application

- + For handling liquids In various industries like Textile, Paper, Cellulose, Sugar, Steel, Food, Having wide temperature range & fluid, 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.
- + Water treatment plant, Effluent treatment plant, Electro plating, Pickling & Steel rolling mills.
- + Excellent for transfer and loading - unloading like HCL, Sulphuric Acid / Alkali, Caustic lye.
- + Scrubbing of corrosive gases like NH3, CO2, SO3, So2, I2, F2, Br2, Cl2, etc...

Design

Horizontal, radically split, one piece volute casing design, fitted with a semi open impeller, single entry single stages. Following standards of PIN 24256 / ISO 5199.

Material of Construction

Casing, Impeller, Back Plate	: PP/GRP / UHMWPE / 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

Sealing Options :

- Externally mounted mechanical seal
- Internal mechanical seal
- Gland packing
- SPECIAL DESIGN For low RPM Pumps

PRIMING CHAMBER

The Solution for suction left application.

These are available for PP series pumps. Priming Chambers to Suit Customer requirement of other models available on request.

Shiv Pumps priming chamber is used for priming the pump in the event of negative suction condition. This avoids the need of foot valve and frequent priming of the pump. The priming pot is connected to the pump suction filled with liquid and sealed airtight before initial start up. After starting the pump, the liquid from priming pot is drawn into the pump and partial vacuum, is created in the pot. Due to partial vacuum, liquid rises in the suction pipe and pushes the air into the pot. This action fills the suction pipe resulting in priming. The air accumulated in the priming pot mixes with liquid and is driven through discharge of the pump.

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.



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 solid 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

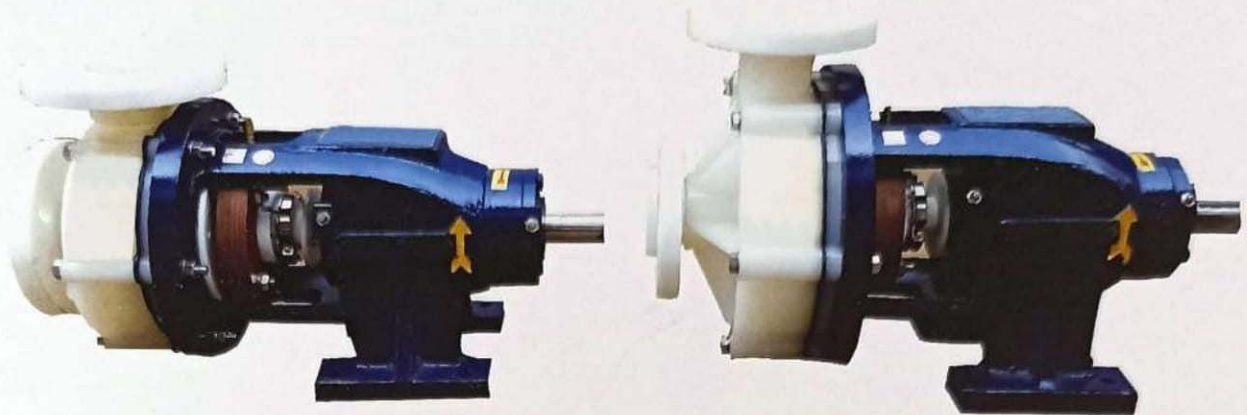
Casing, Impeller, Back Plate	: SOLID PVDF
Shaft Sleeve	: GRP / Ceramic / ALLOY-20 / Hast Alloy B/C
Bearing Bracket	: C.I. GRFG-26
Shaft	: SS / EN 9
Bearings	: Double ball bearing

Operating 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

PVDF 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						
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.



VERTICAL SEAL LESS GLANDLESS PUMPS

- Advantage :** First choice for effluent treatment plants since there are no mechanical seals / glands. May run dry due to absence of shaft seals. Lesser parts result in low maintenance time and costs.
- Expeller :** Solid injection moulded polypropylene expeller prevents liquid from going further up channelizing it through the outlet of the overflow chamber.
- Backplate :** The back plate is thick walled solid injection moulded from polypropylene.
- Volute Casing :** Top centerline discharge, self venting volute casing formed of thick injection moulded polypropylene.
- Impeller :** Impellers are precision moulded, light in weight, a semi open construction with large, contoured flow passages for maximum handling of the liquid.
- Bearing Frame :** Heavy cast iron construction. To accommodate vertical flange type motor & for a wall hung installation.
- Ball Bearing :** Single. Double row ball bearing is shouldered & locked on a shaft with locknut and washer, and in bearing housing to carry radially and any unbalanced thrust load.
- Shaft :** The shaft is made of En Steel protected with a polypropylene sleeve dose not come in contact with process media.
- Overflow Chamber :** Large injection moulded polypropylene chamber guide's excess liquid back to the sump eliminating the need for a shaft seal.
- Design :** Horizontal, radically split, one piece volute casing design, fitted with a semi open impeller, single entry single stages. Following standards of PIN 24256 / ISO 5199.
- Material of Construction**
- | | |
|------------------------------|---------------------------------------------|
| Casing, Impeller, Back Plate | : PP/GRP / UHMWPE / 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 |

PERFORMANCE CHART

Model No.	Suction in MM	Delivery in MM	HP	RPM	Head in Meter						Impeller DIA in mm
					Flow in m ³ /HR						
PPVG-100	25	25	01	2900	12 00	10 02	09 05	07 08	06 11	04 13	100
PPVG-120	35	32	02	2900	17 00	15 05	13 10	11 13	07 19	05 22	120
PPVG-160 R	40	40	03	2900	23 00	20 05	18 10	15 15	12 25	08 25	145
PPVG-160	75	40	05	2900	30 00	27 05	25 10	20 20	15 30	10 35	160
PPVG-170	75	50	7.5	2900	35 00	32 10	25 30	20 40	15 45	10 50	160
PPVG-40	75	40	12.5	2900	45 00	40 10	38 25	35 30	30 35	25 40	195

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



FULLY OPEN TURBINE TYPE HORIZONTAL SELF PRIMING PUMPS

Application

- Loading and unloading of small big drums.
- Barrels
- Small tankers
- Large use rolling mills for pickling and solvent plant.
- Pharmaceutical
- Laminates

Features :

- Fully open impeller for clear fluid transfer.
- Low NPSH required.
- Best suited for lifting various clear solvents from tank farms to charging vessels or simple drum unloading.
- Low speed application (1450 RPM).
- High head low capacity pumps can Lift Fluid from 3-5 Meter.
- Standard carbon vs ceramic faces of mechanical seal seals the fluid inside the pump.
- Mechanical seal is cooled by fluid inside the pump no additional cooling arrangement required
- Floating impeller design.
- Trolley for mobile operation available.
- Suitable only for clear fluids.
- Jam free pump with moving parts made of special metal capable of sucking and delivery.
- Pump clear liquids against the operating pressure.

Material Construction

C.I., C.S., SS-304 304 L, SS-316 316L, Bronze, Alloy-20, CD4MCU, etc...

Model No.	Size	H.P	R.P.M	Head Meters	02	05	10	15	20	25	30	35	40
SP-02	1"x1"	0.5	2800	Capacity LPM	36	31	27	23	18	13	08		
SP-03	1"x1"	1	2800		54	49	45	42	38	32	26	20	13
SP-40	1.5"x1.5"	2	1440		166	116	90	67	50	08			

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



VERTICAL LONG SHAFT PUMP

Application

Dynamech pumps are 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, Chlor-alkali, General Processing Industry, Light Slurries, Organic Chemicals, Polymers, Petrochemical Processing, Slurries, Solvents, Waste Processing.

Benefit :

Available in different materials of construction. Improved pump efficiency. Suited for a wide range of duties. Easy maintenance with low maintenance cost. Pump is compact and space saving. Designed to meet specific depths and application requirements. Base plate designed to meet existing support arrangements.

Pump Specifics :

Standardized and modular design. The discharge connection is facing vertically. Standard shaft sealing by means of an oil seal, gas tightening option by mechanical seal or stuffing box packing.

Column Pipes and Pump Shafts :

The pump working parts are below base plate. Connects the pump casing with the base plate. Column pipe protects the shaft. Supports the eventual intermediate bush bearings. Sump depth according to customer specification.

Base Plate :

Base plate can be rectangular or round shape as per requirement. Can be sized according to customer specifications / pit dimensions. Lifting lugs for easy maintenance.

Coupling :

Standard fitted with flexible coupling. Optionally available with membrane coupling or non-sparking coupling. Coupling guard to prevent contact to the rotating parts.

Pump Casing / Impeller :

Special impeller design for low NPSH values. Closed impellers, Semi-open impellers with wear plate are available depending on requirement. Anti-rotation devices at impeller inlets. Suction strainers are provided. Optimized hydraulic performance. Suitable for a wide range of liquids. Impellers protected from clogging.

Operating Data :

Capacity : up to 350 m³/Hr
Length : up to 4 mtrs.
Temperature : up to 160° C
Speed : up to 2800 RPM
Pressure : up to 10 kg/cm²

Material of Construction :

Metallic : C.I., C.S., SS-316 / SS-304 / SS 316L / Alloy-20,
Non-Metallic : PP / PVDF ETC...





Centrifugal Magnetic Pump

Application

For handling liquids in various industries like Textile, Paper, Cellulose, Sugar, Steel, Food, having wide temperature range & fluid etc..
 Ideal for circulation of chemical in metal finishing industry.
 Natural choice for picking line & scrubber in steel plants.
 High capacity transfer pump, filter press for Dyes & Chemicals, De-scaling, Oil & other fuels.
 Water treatment plant, Effluent treatment plant Electro plating, Picking & Steel rolling mills.
 Excellent for transfer and loading -unloading like HCL, Sulphuric Acid / Alkali, Caustic lye.
 Scrubbing of corrosive gases like NH_3 , CO_2 , SO_3 , SO_2 , I_2 , F_2 , BR_2 , C_{12} , etc...

Features :

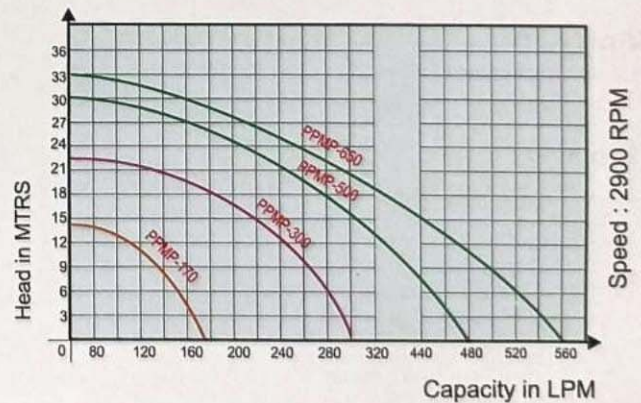
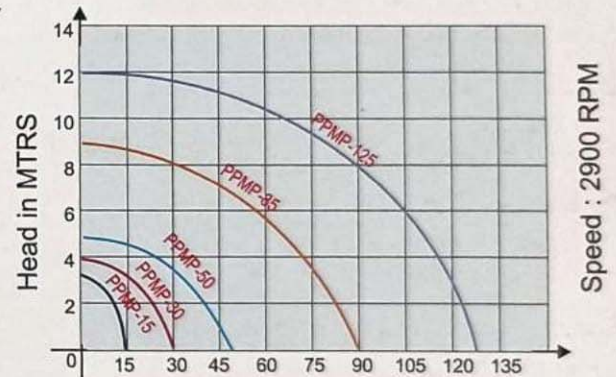
- 100% Leak Proof Pumps.
- No Shaft Seal to maintain, replace
- High Efficiency due to permanent magnet power coupling.
- Simple design, easy to operate & maintain
- Very useful for handling highly corrosive chemicals plating chemicals, toxic & fuming liquids.

- Improved safety
- High corrosion resistance
- Wide range of applications
- Standard electric motors
- Reliable in performance
- Less down time
- Simple design
- Easy maintenance

Material of Construction

All pumps are rated for continuous duty with class E insulation.
 Max operating Temp $70^{\circ}C$ for PP, $120^{\circ}C$ for PVDF & $250^{\circ}C$ for SS-316.
 All Pumps are Centrifugal type and need priming before start up.
 Non Magnetic pumps are available upto 5 HP.

Performance Curves



Specifications :

PUMP MODEL	IN / OUT SIZE	Max. Capacity LPM	Max. Capacity LPM	Max. Head Mtrs	Motor HP	Full Load Current	Sp.Gr. Limit	Weight
PPMP-15	14 MM	15	2.5	0.10	0.15 Amps	Single	1.1	3 Kgs
PPMP-30	18 MM	30	4	0.16	0.20 Amps	Single	1.1	3.5 Kgs
PPMP-50	20 MM	50	5	0.25	0.50 Amps	Single	1.2	5 Kgs
PPMP-85	26 MM	85	9	0.50	1.00 Amps	Single / Three	1.2	8 Kgs
PPMP-125	26 MM	125	12	0.75	1.25 Amps	Single / Three	1.3	10 Kgs
PPMP-170	1" BSP	170	14	1.0	1.70 Amps	Three	1.3	12 Kgs
PPMP-300	1 1/2" x 1 1/4"	300	22	1.5	2.40 Amps	Three	1.4	16 Kgs

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



AIR OPERATED DOUBLE DIAPHRAGM PUMPS

FEATURES :

- No electrical 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 (1/2" BSP)
 Discharge : 38.10 mm (1 1/2" BSP)
 Air Inlet : 9.64 mm (3/8" BSP)
 Suction Lift : Air Exhaust : 12.70 mm (1/2" 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 (3/8" BSP)
 Suction Lift : Air Exhaust : 12.70 mm (1/2" 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 (1/2" BSP)
 Suction Lift : Air Exhaust : 19.05 mm (3/4" 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 (1/2" BSP)
 Discharge : 12.70 mm (1/2" BSP)
 Air Inlet : 6.85 mm (1/4" BSP)
 Suction Lift : Air Exhaust : 12.70 mm (1/2" 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.

Single Coil Spring

Features :

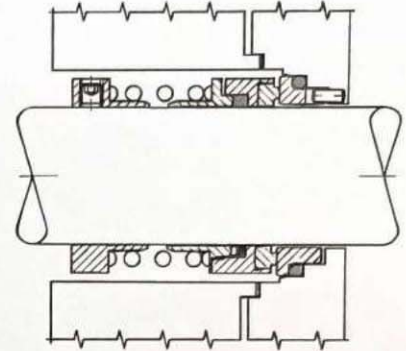
Unbalance Pusher Seal. Inside mounted Helical single coil spring mechanical seal. Secondary as "O" ring and "V" packing as. Independent direction of rotation.

Materials

Seal Ring Faces : Carbon, SiC and TC
 Seat Faces : NIR, Ceramic, SiC and TC
 Elastomer : Viton, PTFE, GFT, TTV
 EPDM, NBR, Buna-N
 MOC : SS 316 / Alloy-20

Operating Capabilities

Shaft Dia : 10 mm to 100 mm
 Pressure : Up to 10 bar
 Temperature : -20°C to 150° C
 Speed : 3000 r.p.m



Multi Spring

Features :

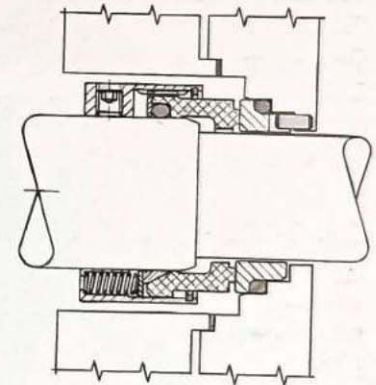
Balance Pusher Seal. Inside mounted multi spring type mechanical seal. Secondary seal as "O" ring and PTFE wedge as dual directional design.

Materials

Seal Ring Faces : Carbon, SiC and TC
 Seat Faces : Ceramic, SiC and TC
 Elastomer : Viton, PTFE, GFT, EPDM
 NBR, Buna-N & FFKM
 MOC : SS-316 / Alloy - 20

Operating Capabilities

Shaft Dia : 10 mm to 100 mm
 Pressure : Up to 20 bar
 Temperature : -20°C to 260° C
 Speed : 3000 r.p.m



PTFE Bellow with Replaceable Face

Features :

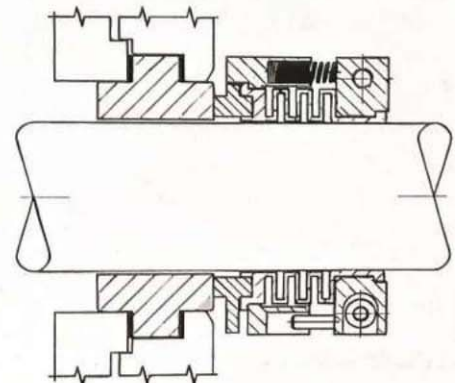
Outside mounted seal with Replaceable face. Hydraulically balanced PTFE bellow mechanical seal. Independent direction of rotation. Dual directional multi spring design.

Materials

Seal Ring Faces : GFT, Carbon, SiC
 Seat Faces : Ceramic, SiC
 Elastomer : PTFE & GFT
 MOC : SS 316, Hast-C and Alloy-20
 Bellow MOC : PTFE+GFT Composite

Operating Capabilities

Shaft Dia : 10 mm to 100 mm
 Pressure : Up to 10 bar
 Temperature : -20°C to 150° C
 Speed : 3000 r.p.m



Metal Bellow

Features :

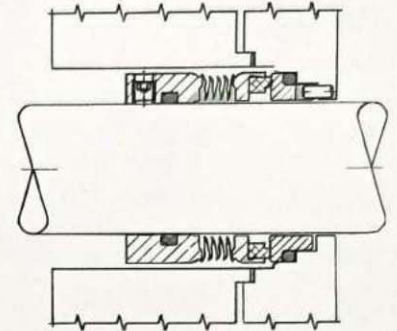
Single acting. Dual directional design. Inside Mounted seal.
Inherently balance metal bellow Mechanical seal.
Independents direction of rotation.

Materials

Seal Ring Faces	: Carbon, SiC and TC
Seat Faces	: TC and SiC
Elastomer	: Flexible Graphite
End Fitting MOC	: SS-316, Hast-C and Carpenter 42
Bellow MOC	: Hast-C, AM 350 Inconel

Operating Capabilities

Shaft Dia	: 25 mm to 70 mm
Pressure	: Up to 25 bar
Temperature	: -70°C to 350° C
Speed	: 3000 r.p.m



Double Semi Cartridge with Back Plate

Features :

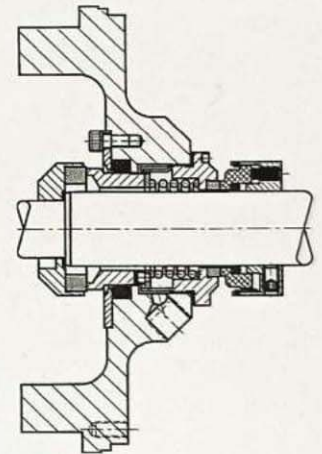
Double Semi-Cartridge mechanical seal, Slurry seal upto
60% due to it's specially design of stuffing box. Inside
mounted seal. Balanced seal.

Materials

Seal Ring Faces	: SiC, Carbon and TC
Seat Faces	: SiC and TC
Elastomer	: Viton, TTV, FEP and FFKM
MOC	: SS - 316 / Change of MOC on Request.

Operating Capabilities

Shaft Dia	: 20 mm to 80 mm
Pressure	: Full Vacuum to 8 bar
Temperature	: -30°C to 260° C
Speed	: 3000 r.p.m



PTFE Bellow

Features :

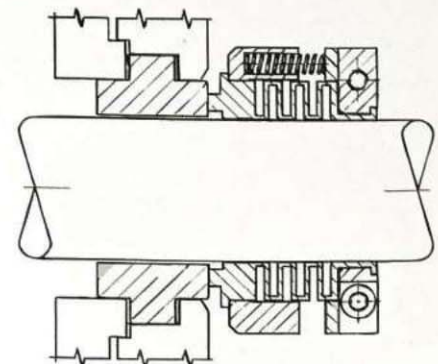
Outside mounted seal. Hydraulically balanced PTFE bellow
mechanical seal. Independent direction of rotation.
Dual directional multi spring design.

Materials

Seal Ring Faces	: GFT, CFT and SiC
Seat Faces	: Ceramic, SiC
Elastomer	: PTFE & GFT
MOC	: SS 316, Hast-C and Alloy-20
Bellow MOC	: PTFE + GFT Composite

Operating Capabilities

Shaft Dia	: 16 mm to 80 mm
Pressure	: Up to 5 bar
Temperature	: -30°C to 110° C
Speed	: 3000 r.p.m



Double Semi Cartridge

Features :

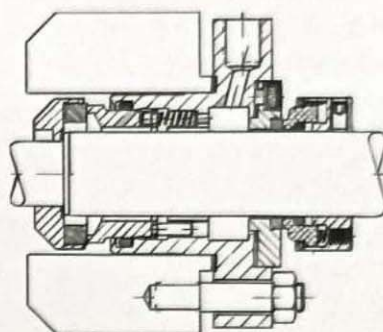
Double Semi – Cartridge mechanical seal.
Dual directional design. Slurry seal up to 20 % Inside mounted seal. Balanced Seal.

Materials

Seal Ring Faces	: Carbon, SiC and TC
Seat Faces	: TC and SiC
Elastomer	: Viton, TTV, FEP and FFKM
MOC	: SS 316, change of MOC on request

Operating Capabilities

Shaft Dia	: 20 mm to 80 mm
Pressure	: Full Vacuum to 8 bar
Temperature	: -30°C to 260° C
Speed	: 3000 r.p.m



Single Spring

Features :

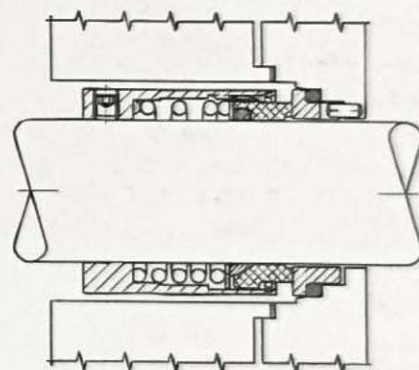
Unbalance Pusher seal. Inside mounted Helical single coil spring mechanical seal. Secondary seal as "O" ring and PTFE Wedge. Independent direction of rotation.

Materials

Seal Ring Faces	: Carbon, GFT, SiC and TC
Seat Faces	: Ceramic, SiC and TC
Elastomer	: Viton, PTFE, EPDM,, NBR, Buna-N
MOC	: SS-316

Operating Capabilities

Shaft Dia	: 10 mm to 100 mm
Pressure	: Up to 8 bar
Temperature	: -20°C to 200° C
Speed	: 3000 r.p.m



Single Cartridge

Features :

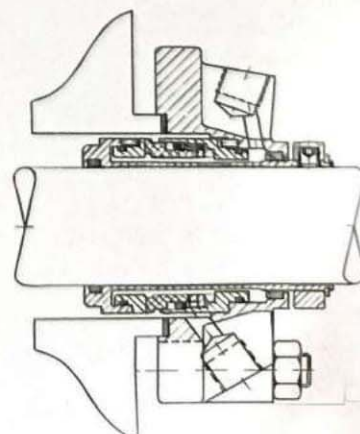
Single cartridge balanced mechanical seal.
Dual directional design.
Non Clogging wave spring design.
Inside mounted seal. Unitized, easy –to fit design.

Materials

Seal Ring Faces	: TC and SiC
Seat Faces	: SiC and TC
Elastomer	: Viton, PTFE, FEP and FFKM
MOC	: SS-316, Change of MOC on request.

Operating Capabilities

Shaft Dia	: 25 mm to 100 mm
Pressure	: Up to 18 bar
Temperature	: -30°C to 260° C
Speed	: 3000 r.p.m



Double Seal for SS Reactor

Features :

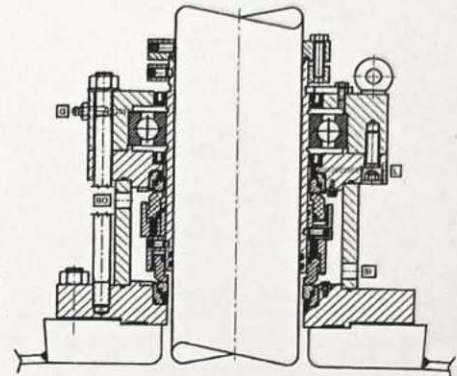
Double balanced mechanical seal. These seals are excellent with low RPM operation in vacuum and pressure conditions. Design Without bearing or with integral bearing. Design for Top, bottom and side entry.

Materials

Seal Ring Faces	: Carbon, SiC
Seat Faces	: SiC and TC
Elastomer	: Viton, TTV, FEP and FFKM
MOC	: SS 316 - change of MOC on request

Operating Capabilities

Shaft Dia	: 25 mm to 200 mm
Pressure	: Full Vacuum to 30 bar
Temperature	: -30°C to 260° C
Speed	: 300 r.p.m



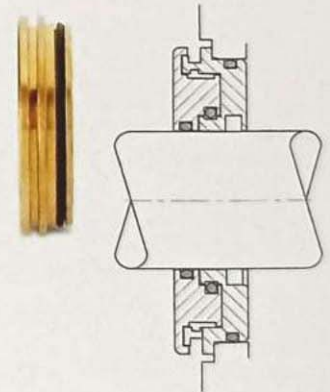
Bearing Isolator

Features :

Close tolerance bearing Isolator design locks out moisture, grit and dust, which extending bearing life. No more shaft wearing as compare to conventional oil seal.

Application

Installs on bearing frames used in oil and gas, chemical mining, pulp and paper, power and general industries.



Thermosyphon System

The Thermosyphon provides Lubrication, dissipate heat and maintain the temperature and required pressure gradient across the seal faces in case of double back to back and tandem seal arrangement for pumps and agitator seals. Plan 52 and 53A configurations. Economical light and heavy duty reservoir for general services applications.

Instrumentations on each reservoir is according to local standards and can be adapted to suit application and customer requirements. 304 and 316 stainless steel construction. Cooling coil is optional.

Application

MOC : SS-316, SS-304 & MS

Operating Capabilities

TS 20 pressure Limit	: 20 bar
TS 40 pressure Limit	: 40 bar
Temperature	: Up to 200° C



All Types of Pump Spare & Mechanical Seal





DYNAMECH PUMP

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