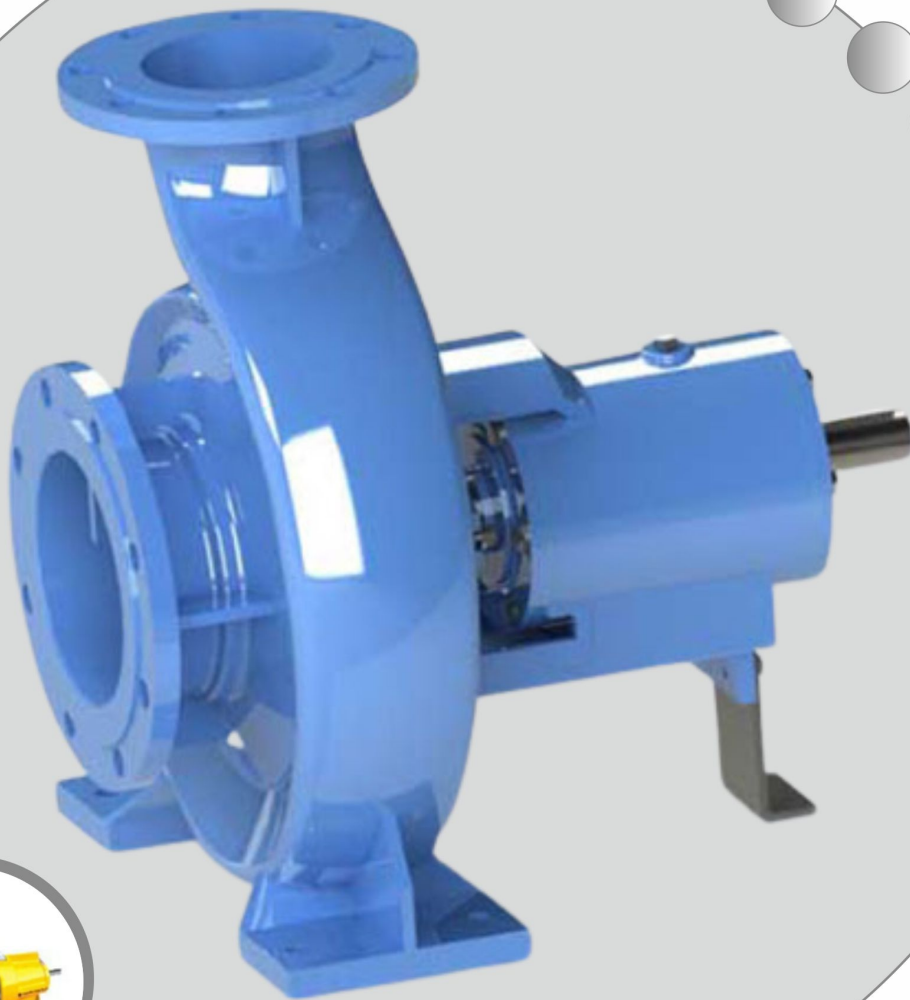


PIDE3

PUMPS



Quality



Skill



Spirit

ISO: 9001 :2015 Certified Company

PDC SERIES

SINGLE STAGE, END SUCTION
BACK PULL OUT TYPE
CENTRIFUGAL PROCESS PUMP

FEATURE:

- Modular Constructions, High Interchangeability, Fast Delivery.
- Versatile Shaft Sealing Arrangement, Glands Packing As A Standard Arrangement And Option To Use Mechanical Seal.
- Process Type Design Results In Minimum Downtime.
- Back Pull Out Design Enabling Easier Removal For Inspection And Maintenance.
- Closed Impellers Ensures High Efficiency For A Long Period Operation.
- Pump Comes In Three Bearing Design Resulting In Good Continuous Process With High Productivity.
- Bigger Shaft And Bearing Size Enabling Sturdy Design.

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, D.m. 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...



SHAFT SEALING:

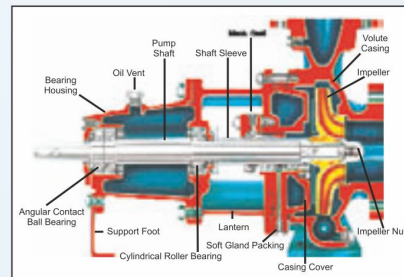
One Piece Self Venting Volute Casing With End Suction And Top Centerline Delivery Branch. The Pump Feet Are Integrally Cast Into Volute Casing. The Feet At Bottom Transfer Residual Pipe Stress By The Shortest Possible Route To The Base Plate And Foundation.

IMPELLER:

Closed Or A Semi Open Impellers Specially Designed 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 & BEARINGS:

The Shaft Is Guided In Oil Lubricated Angular Contact And Cylindrical Roller Bearings. The Alignment Of Bearing 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.



SHAFT SEALING:

Supplied With Either Packing Or Mechanical Seals In A Stuffing Box With Connection For Sealing And Flushing Liquid. Simple Change Over From Packing To A Mechanical Seal Is Possible With The Aid Of Standardized Conversion Parts Without Re Machining. A Mechanical Seal Of Various Makes, Unbalanced As Well As Balanced Ones Can Be Easily Fitted In The Standard Stuffing Box.

BEARING FRAME:

Just Three In Number To Cover Entire Range. 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 Oilier. 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 Oil Pumps Of Bearing Frames.

M.O.C.:

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

MATERIAL SPECIFICATIONS:

Standards	Designed To Conform	DINE 24256, ISO 2858, API 610 (in general)	
Flanges	As Per	DIN 2533, DIN 2543, ASA 125 LB FF, ASA 150, RF, BS 10: 1962 TABLE E	
Operating Range	Speed 1450 rpm discharge up to 2200 m3/hr heads up to 60 mts. Speed 2900 rpm discharge up to 380 m3/hr heads up to 150 mts.		
Working Pressure	Grey Cast Iron Steel S.G., Iron Cast stainless steel, alloy 20 *Depending upon pump size and pumping temperature.	16 kg/cm ² max. 20 kg/cm ² max.	
Temperature	Grey Cast Iron S.g., Iron And Cast Steel Alloy Cast Steel	from-30 to +200 ^o c from- 40 to + 300 ^o c from-120 to +350 ^o c	
Materials Of Construction	Standard Design	Grey Cast Iron Cast Steel SS 316	s.g. Iron, CD4MCU Alloy 20, SS 304 / Bronze SS 316 L, 304 L
	Special Design	Ni Hard, Cast Iron, Hast Alloy	

PDCC SERIES

END SUCTION, HORIZONTAL,
CENTRIFUGAL COUPLED PUMP.

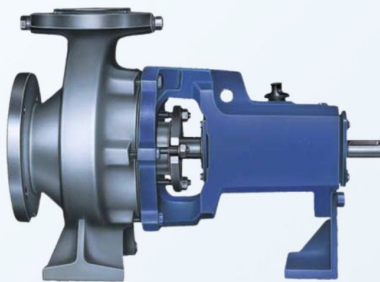
PIDEE Centrifugal Process
Pumps, R MF Series, Are
Operating Successfully
All Over The World. They Offer
Robustness And Wear Resistance
And Thus Fulfil High Customer
Expectations In Terms Of
Efficiency, Life Cycle, Maintenance
Friendliness And Economic
Efficiency.

THE FACTS

- ▶ Flow Rates Up To 200 M³/h
- ▶ Heads Up To 140 M
- ▶ Casing Pressure Up To 16 Bar
- ▶ Temperature Up To 140°C
- ▶ Solid Handling 30%
- ▶ Characteristic Curve 1500 To 3000 Rpm

FIELDS OF APPLICATION

- ▶ Water And Waste Water Management
- ▶ Mining Industry
- ▶ Effluent Treatment Water (etp)
- ▶ Starch Industry (corn, Maize Products)
- ▶ Food Industry (sugar, Starch, Tomato Juice)
- ▶ Chemical Industry
- ▶ R.o. Water Treatment Plant

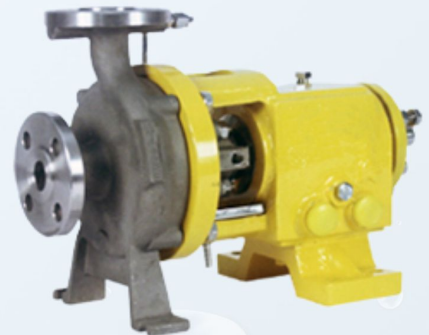


DESIGN:

Self Venting, Top Centerline Discharge,
No Air Locking, Back Pullouts, Simplifies
Maintenance Without Disturbing Pipe
Connections.

IMPELLER:

A Semi Open Impellers, Non Clogging,
And Handle Light Slurries Without A
Problem. Dynamically A Balanced
Impeller, Less Noise, Less Vibration.



STUFFING BOX:

Provide With A Gland Packing Or Mechanical
Seal (high Quality Mechanical Rotary Seal
For Leak Proof Long Life Operation) On
Request.

M.O.C.:

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

SR. NO	PUMP MODEL	SUCTION X DISCHARGE (MM)
1	P0K - 1.5 X 1-5	40 X 25
2	P0K - 1.5 X 1-6	40 X 25
3	P1K - 1.5 X 1-8	40 X 25
4	P1K - 3 X 1.5-6	80 X 40
5	P1K - 3 X 2-6	80 X 50
6	P1K - 3 X 1.5-8	80 X 40
7	P2K - 3 X 2-8	80 X 50
8	P2K - 4 X 3-8	100 X 80
9	P2K - 2 X 1-10	50 X 25
10	P2K - 3 X 1.5-10	80 X 40
11	P2K - 3 X 2-10	80 X 50
12	P2K - 3 X 2-13	80 X 50
13	P2K - 4 X 3-13	100 X 80



PDMP

SERIS

SELF PRIMING
NON-CLOG (MUD) PUMP
(MECHANICAL SEAL TYPE)



FEATURES:

- Long Life Due To Replaceable Wearing Parts.
- Dynamically Balanced Rotating Parts.
- Easy Maintenance And Pump Spare Availability.
- Designed For Automatic Air Release During Priming.
- Grease Lubricated Deep Grooved Ball Bearings.

APPLICATIONS:

- 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 Panchayats, Municipalities, Public Health Departments, Large Housing Colonies, Industries Like Chemical, Pharmaceuticals, Food, Cement, Paper, Sugar, Salt, Steel And Other For Liquid Cargo From Frighter, Barges.

SPECIAL FEATURES:

- Long Life Due To Replaceable Wearing Parts.
- Dynamically Balanced Rotating Parts.
- Quick Automatic Self Priming Action.
- Repairs Possible Without Disturbing The Pipe Connection.
- Non-clogging Impeller To Handle Suspended Solids.
- Portable When Fitted On Trolley/trailer.
- Suitable For Motor/engine.
- Efficiency At Per With Internationally Available Pumps.
- Top Flat Efficiency Over The Entire Operating Range.
- No Foot Valve Required. No Priming Of Suction Pipe Line.
- Sturdy Construction, Simple Design, Replicable Wear Plates & Hence Minimum Maintenance Required.
- Non-clogging And Handles Solids Up To 50 Mm.
- Back Pull-out Design. Best Suitable For Engine Drive Pumping.

VOLUTE CASING:

Heavy Duty Built In Volute Having Self Priming Feature And Integrally Cast With Base From Closed Grained C.i. Casting.

IMPELLER:

Non-clogging Designed For High Efficiency. Semi Open Type And Are Hand Finished For Perfect Smooth Flow.

SHAFT:

Made Of En 9 Steel Soecifications Ample Size To Transmit Power Without Distortion Or Vibration.

BEARINGS:

Antifriction Ball Bearings, Single Row Deep Grooved Heavy Selected To Provide Maximum Service. Grease Lubrication Arranged By Grease Cups.

STUFFING BOX:

Deep Gland Box Used With Graphite Packing Are Lubricated By Lantern Ring With Grease.

FLANGES:

Companion Flanges Are Supplied Along With Pumps.

ROTATION:

Marked With Arrow On Casing Of Each Pump, Check Before Coupling With Prime Mover.

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.:

Cl., C.S., SS 304, SS 316, Bronze, Alloy 20, CD4MCU Etc...

PIDEE PUMPS

MFG: VACUUM & CENTRIFUGAL PUMPS

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