



# **KRISHIKA ENGINEERING**

**Petrochemicals**

**Power Plant**

**Fertilizers**

**Pharma**

**Chemical**

**Food & Beverages**



ATEX 2014/34/EU

# ABOUT US

**KRISHIKA ENGINEERING** was established in 2021 with the base knowledge of Chemical process pump manufacturing for last 10 years.

Also we have a team having knowledge and experience of technical sales and marketing of **Mechanical Seal** for more than 7 years.

## **We are Authorised Dealers of :**

### **SUPERPROOF SEALS ENGINEERING PVT. LTD.**

SUPERPROOF Seals Engineering Pvt. Ltd. was established in 2001. The team of director had vast experience of more than 12 years in this field before this firm was established. SUPERPROOF is TUV AUSTRIA EN ISO 9001:2008 certified company. They have Ex Stock of FFKM O ring for instant delivery of Mechanical seal for high temperature, high pressure and hazardous applications. They have also developed their own special design seal for handling slurry in metallic and non-metallic process pump.

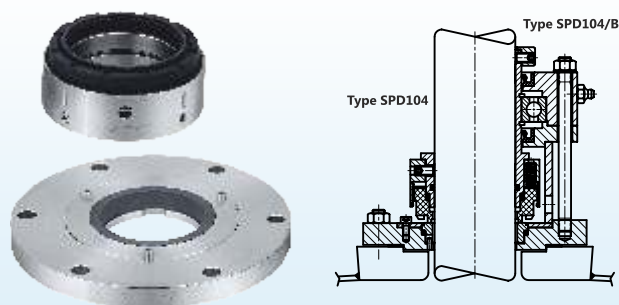
### **CM PUMPS AND SYSTEMS PVT. LTD.**

CM PUMPS are the pioneer and the first indian manufacturer and exporter of **SEALLESS MAGNETIC DRIVE CENTRIFUGAL PUMP**. They offer wide range in magnetic drive centrifugal pump for metallic and non-metallic applications according to DIN EN 22858 / ISO 2858 standards.

### **NAKLANK ENGINEERING**

**NAKLANK ENGINEERING** was established in 2017 with the base knowledge of chemical process pump manufacturing for last 25 years. They have a wide range of **INVESTMENT CASTING METALLIC CENTRIFUGAL PUMP** in different MOC like SS316, SS316L, NICKLE, ALLOY-20, HASTALLOY-C/B. Also they supply chemical process pump in PP / PVDF / PFA LINED / FEP LINED. These pumps are widely used for pumping corrosive and aggressive chemicals. The pump range includes capacity up to 600 m<sup>3</sup>/Hr and pressure up to 14 Kg/Cm<sup>2</sup>.

## TYPE SPD104 & SPD104/B - DRY RUNNING SEAL FOR HIGH SPEED



### FEATURES

High speed Dry running balanced mechanical seal. This Seal is excellent with High RPM operation in Vacuum and pressure conditions. Design without bearing (Type – SPD104) OR with Integral bearing (Type – SPD104/B). Design for Top, Bottom and Side entry.

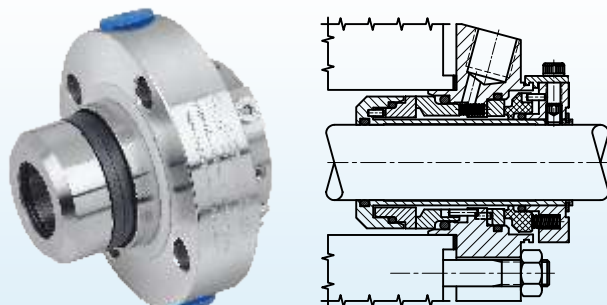
### MATERIALS

Seal Ring Faces: Spl. Carbon  
Seat Faces : SiC  
Elastomer : Viton, TTV, FEP and FFKM  
MOC : SS 316 – CHANGE OF MOC ON REQUEST

### OPERATING CAPABILITIES

Shaft Dia. : 25mm to 150mm  
Pressure : Full Vacuum to 8 bar  
Temperature : -30°C to 140°C  
Speed : 900 r.p.m.

## SEAL TYPE ZR600/D - DOUBLE CARTRIDGE



### FEATURES

Double Cartridge balanced mechanical seal. Dual directional design. Inside mounted seal. Unitized, easy-to-fit design.

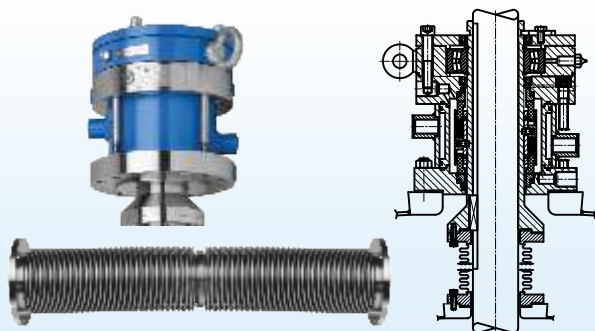
### MATERIALS

Seal Ring Faces : Carbon, SiC and TC  
Seat Faces : TC and SiC  
Elastomer : Viton, PTFE, and FFKM  
MOC : SS 316 - Change Of MOC On Request

### OPERATING CAPABILITIES

Shaft Dia. : 20mm to 70mm  
Pressure : Up to 15 bar  
Temperature : -30°C to 260°C  
Speed : 3000 r.p.m.

## 541/D/B - DOUBLE MECHANICAL SEAL FOR ANFD WITH METALLIC BELLOW



### FEATURES

Double balanced mechanical seal for ANFD (Agitated Nutsche Filter Dryers). This Seal is excellent with Low RPM operation in Vacuum and pressure conditions. The Bellow assembly is for long fatigue life. Design with solid antifriction linear Integral bearing (Type – 541/D/B). Design for Top entry.

### OPERATING CAPABILITIES

Shaft Dia. : 20mm to 200mm  
Pressure : Up to 5 bar  
Temperature : -30°C to 260°C  
Speed : 100 r.p.m.

### MATERIALS

Seal Ring Faces : Carbon and SiC  
Seat Faces : SiC and TC  
Elastomer : Viton, PTFE, EPDM, NBR, FFKM  
MOC : SS 316, Duplex, Super Duplex, Hastelloy C, Monal

### APPLICATION

Agitated Nutsche Filters and Dryers  
Rotary Vacuum Paddle Dryers  
Horizontal Reactors With Expanding Shaft

## TYPE SPB01 - 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.

## CZ SERIES - SS MAGNETIC DRIVE CHEMICAL PROCESS CLOSE COUPLED PUMP



### Description

- Single Stage, Horizontal Centrifugal Pump.
- Hydraulic Performance and Dimensions according to DIN EN ISO 2858
- Technical design based on DIN EN ISO 15783
- Permanent Magnet Drive
- Maintenance Free
- Separation of Liquid Chamber to Atmosphere by Means of Isolation Shell
- Slipless Power Transfer
- Materials : Steel, Stainless Steel, Nickel Based Materials
- Close Coupled Block Design
- Hydraulically balanced impeller for minimum bearing loads
- Product-Lubricated Journal Bearings; made of Silicon Carbide (SiC) or Customized Materials

### Technical Data

Operation Range  
Flow Rate : max. 300m<sup>3</sup>/h  
Delivery Head : max. 100 metre  
Pressure Rating : Class 150  
Temperatures : -35°C to +290°C  
Kinematic viscosities : 0.5 to 500 mm<sup>2</sup>/s

### Casing & Impeller Materials

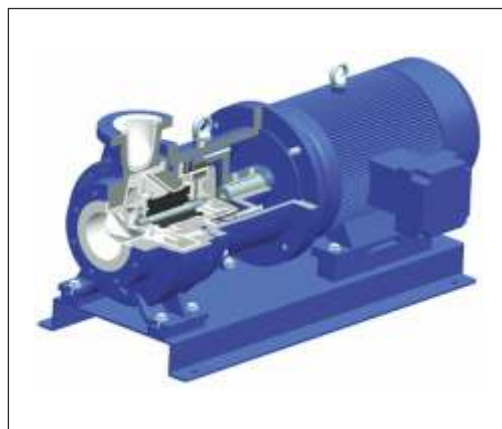
Stainless steel SS 316, SS 316L, SS 304, SS 304L  
Other materials duplex alloys , nickel-base alloys (e.g. Hastelloy®),

Working Principle	:	Radial flow pump
Stages	:	Single stage
Priming Method	:	Flooded suction
Sealing System	:	Magnetic coupling
Standards	:	DIN EN ISO 2858
Standards	:	DIN EN ISO 15783
ATEX	:	2014/34/EU
	:	Ex II 2 GD c T2

**NOTE : PUMPS ALSO AVAILABLE IN COUPLING DESIGN.**



## CZ SERIES - PFA LINED MAGNETIC DRIVE CHEMICAL PROCESS CLOSE COUPLED PUMP



### Description

- Single Stage, Horizontal Centrifugal Pump.
- Hydraulic Performance and Dimensions according to DIN EN ISO 2858
- Technical design based on DIN EN ISO 15783
- Permanent Magnet Drive
- Maintenance Free
- Separation of Liquid Chamber to Atmosphere by Means of Isolation Shell
- Slipless Power Transfer
- Materials : PFA, FEP, PVDF
- Close Coupled Block Design
- Hydraulically balanced impeller for minimum bearing loads
- Product-Lubricated Journal Bearings; made of Silicon Carbide (SSiC) or Customized Materials

### Technical Data

Operation Range  
Flow Rate : max. 300m<sup>3</sup>/h  
Delivery Head : 3 to 90 mtr.  
Pressure Rating : Class 150  
Temperatures : -20°C to + 200°C  
Kinematic viscosities : 0.5 to 350 mm<sup>2</sup>/s  
Solid handling: up to 5% solids concentration,  
depending on the pumped fluid

### Casing & Impeller Materials

PFA Lined, FEP Lined, PVDF Lined

Working Principle : Radial flow pump  
Stages : Single stage  
Priming Method : Flooded suction  
Sealing System : Magnetic coupling  
Standards : DIN EN ISO 2858  
Standards : DIN EN ISO 15783  
⊕ IIC GDcT3

**NOTE : PUMPS ALSO AVAILABLE IN COUPLING DESIGN.**

## THERMIC PUMP FOR HIGH TEMPERATURE APPLICATION



Capacity	: Up to 120 M <sup>3</sup> /hr
Head	: Up to 55 Mtr.
Temperature	: Up to 350°C
Speed	: Up to 3500 rpm
Cooling Method	: With Air
M.O.C.	: Grey Cast Iron, Cast Steel, Alloy Cast Steel

## METALLIC CHEMICAL PROCESS PUMPS



Capacity	: Up to 700 M <sup>3</sup> /hr
Head	: Up to 160 Mtr.
Discharge Size	: 25mm to 150mm
Speed	: Up to 3500 rpm
Sealing Method	: Mechanical Seals, Gland Packing
M.O.C.	: WCB, SS316, SS316L, CD4MCu, CM7M (Alloy 20), Hastalloy-C & other Exotic Alloys

## SELF PRIMING PUMPS



Capacity	: Up to 21 M <sup>3</sup> /hr
Head	: Up to 35 Mtr.
Features	<ul style="list-style-type: none"> <li>• Maximum interchangeability, gives minimum spare parts inventory.</li> <li>• Fully open impeller with back pump-out vanes reduces stuffing box pressure and prevents entrances of solids and meets low NPSH requirements.</li> <li>• Only one time Priming Required.</li> </ul>
Service	: Chemical, Petrochemical, Pharmaceutical, Pulp and Paper, Textile.

## ISO 2858 PROCESS PUMPS (CLOSED IMPELLER)



Capacity	: Up to 1590 M <sup>3</sup> /hr
Head	: Up to 275 Mtr.
Discharge Size	: 25mm to 300mm
Sealing Method	: Mechanical Seals, Gland Packing
Service	: Acid, Solvents, Hydrocarbons.
M.O.C.	: WCB, SS316, SS316L, CD4MCu, CM7M (Alloy 20), Hastalloy-C & other Exotic Alloys
Advantage	: High Efficiency Pumps

**NOTE : PUMPS ALSO AVAILABLE IN CLOSE COUPLE DESIGN.**

## PVDF / PFA / FEP CENTRIFUGAL PROCESS PUMPS



Capacity : Up to 400 M<sup>3</sup>/hr  
 Head : Up to 140 Mtr.  
 Discharge Size : 25mm to 200mm  
 Sealing Method : Mechanical Seals, Gland Packing  
 M.O.C. : PVDF / PFA / FEP

### Applications :

- Water treatment plant, effluent treatment plant, electro, picking & steel rolling mills.
- Excellent for transfer and loading - unloading like HCL, Sulphuric Acid/Alkali, caustic liquid.
- Scrubbing of corrosive like NH<sub>3</sub>, CO<sub>2</sub>, SO<sub>2</sub>, L<sub>2</sub>, F<sub>2</sub>, BR<sub>2</sub>, CL<sub>2</sub>, etc.
- For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, 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, descaling oil & other fuels.
- Pesticide / Insecticide plants, chlorine plants.
- Pharmaceutical and drug plants.

## PP CENTRIFUGAL PROCESS PUMPS



Capacity : Up to 400 M<sup>3</sup>/hr  
 Head : Up to 140 Mtr.  
 Discharge Size : 25mm to 200mm  
 Sealing Method : Mechanical Seals, Gland Packing  
 M.O.C. : PP / PPH / GFPP

### Applications :

- Water treatment plant, effluent treatment plant, electro, picking & steel rolling mills.
- Excellent for transfer and loading - unloading like HCL, Sulphuric Acid/Alkali, caustic liquid.
- Scrubbing of corrosive like NH<sub>3</sub>, CO<sub>2</sub>, SO<sub>2</sub>, L<sub>2</sub>, F<sub>2</sub>, BR<sub>2</sub>, CL<sub>2</sub>, etc.
- For handling liquids in various industries like textile, paper, cellulose, sugar, steel, food, having temperature range, materials, 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, descaling oil & other fuels.

## AIR OPERATED DOUBLE DIAPHRAGM PUMPS



Head : Up to 70 Mtr.  
 Flow : Up to 45 M<sup>3</sup>/hr.  
 M.O.C. : Investment Casting CF8M (SS-316), Aluminium, PP, PVDF  
 Diaphragm M.O.C. : Santoprene, Neoprene, Teflon, Viton, EPDM  
 Max. Particle Size : 5mm to 25mm  
 Air Inlet Pressure : Max. 10.5 kg/cm<sup>2</sup>  
 Air Inlet Size : 1/4" to 1"  
 Air Exhaust : 1/2" to 1"  
 Size : 1/2", 1", 1 1/2", 2", 2 1/2", 3"

### Applications :

- Solvents, Slurry Transfer, Barrels, Acidic Materials, High, Viscous Liquids, Abrasive Media, Ceramic Slurry.

**NOTE : PUMPS ALSO AVAILABLE IN CLOSE COUPLE DESIGN.**





## **KRISHIKA ENGINEERING**

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**Work Shop :** N. H. No. 48, Nr. Karambeli Railway Station,  
Valvada, Karambeli - 396 105, Dist. Valsad, Gujarat.

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