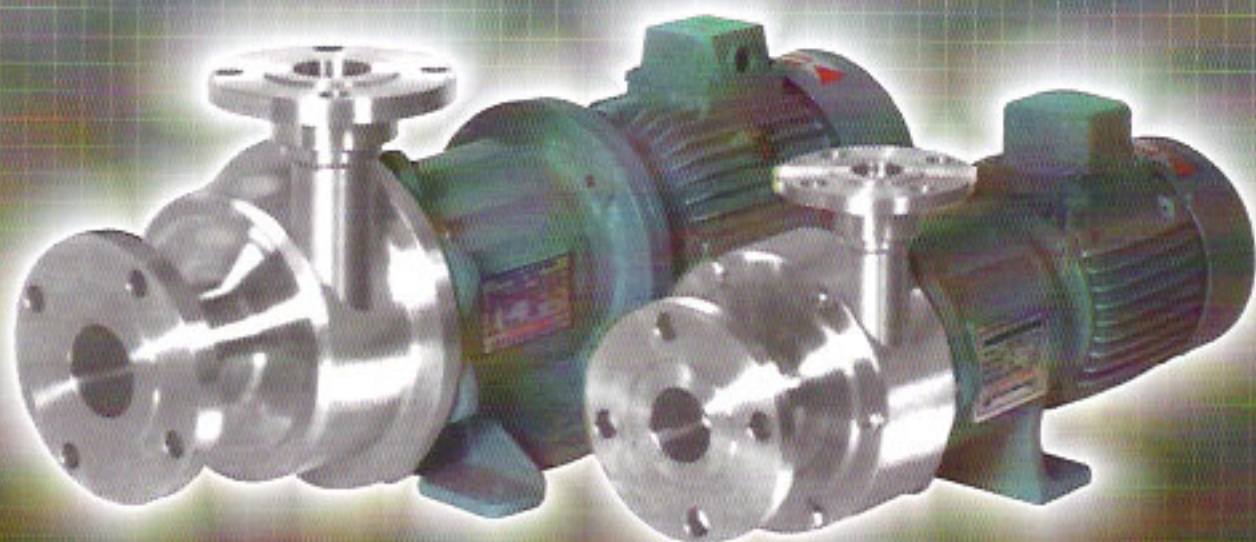


ADVANCED PUMP TECHNOLOGY for ABSOLUTE LEAKLESS PERFORMANCE.

THE SUPREME SEALLESS PROCESS PUMPS



'SANDO' is an **ISO 9001 : 2000 Certified Company**. It has pioneered the art of manufacturing Rotary Equipments since 1990. The products manufactured comply with the International Quality Standards. Due to the process industry's growing concern for environment, safety, GMP Standards, high ongoing cost of maintenance & handling of costly fluids with **ZERO LEAKAGE**, we at 'SANDO' have developed '**MAGNETICALLY COUPLED SEALLESS PUMPS**'. These pumps use Permanent Magnetic Coupling which creates neither slippage nor induction current during rotation.



Cert. No.: 131007

'SANDO' SS - SERIES MAGNETICALLY COUPLED SEALLESS PUMPS :

These pumps are ideal for handling **TOXIC, HAZARDOUS, INFLAMMABLE** or **CORROSSIVE FLUIDS**. These pumps use a pair of Magnetic Cups for transmitting the torque. The magnets are of best quality **RARE EARTH NEODIUM** Magnets imported from GERMANY. The magnets can withstand temperatures upto 400°C on continuous running basis. SD SS-series Magnetic Pumps are available in SS 316, 316L, Alloy 20 & Hastelloy Materials of Construction.

Sealless:

Pump is hermetically sealed in a thick, rugged metallic casing with compatible Material of Construction.

The pump never soils surroundings, but maintains safe & clean environment.

Drastically Saves Maintenance Costs

Silicon Carbide wet bearings, extensively reduces wear & corrosion & provide extremely long life with interchangeable front & rear bushes. The 'SANDO' pump design is versatile with minimum replaceable parts, thereby greatly reducing the cost of inventory as well as maintenance.

Thanks to its Back Pull-Out design & Slip-Fit construction, 'SANDO' pumps are easy to Assemble & Disassemble on site without special tools or skills requirement. Ease of maintenance extensively curtails the relative cost of operation & usage of minimum manpower.

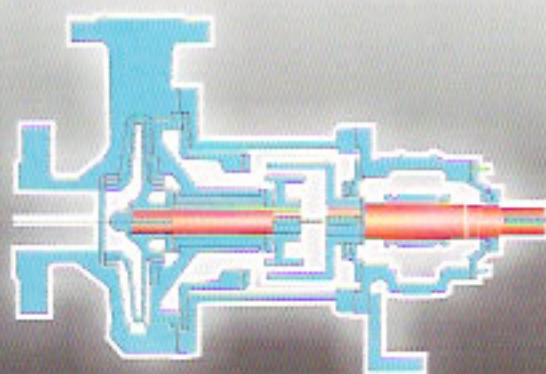
Extremely Safe Pump Design

The pump has Explosion Proof design. Silicon Carbide bearings, the only frictional parts at wet end eliminates the possibility of jamming by rotational contact. Pump & Motor are separately positioned so that leakage from the pump, if any, never affects electrical equipment. Optional high pressure secondary containment is available to eliminate pump leakage due to corrosion of rear casing.

Pump & Rear Casing are completely drainable through a casing drain plug.

Construction :

Volute Casing	}	SS 316,
Rear Casing		316L,
Impeller		Alloy 20,
Shaft		Hastalloy
Gasket	:	PTFE / Grafoil
Shaft Sleeve	:	SiC
Bush Bearing	:	GRF-PTFE, Carbon, SiC
Front/ Rear Thrust Washer	}	TC, SiC



Specification :

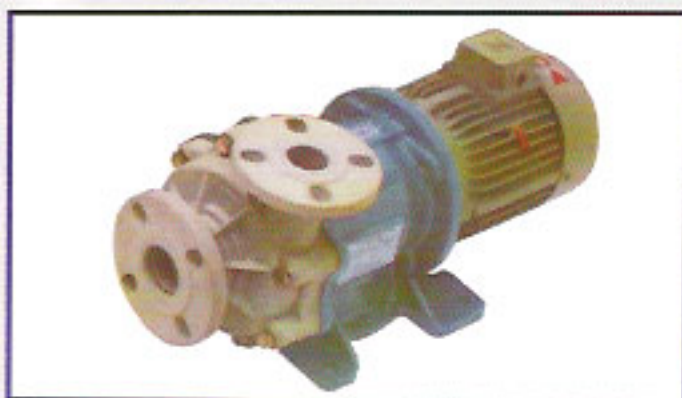
Flanges :	ASA ANSI DIN BS
Impeller :	Closed Semi Open
Max. Sp. Gr. :	2.0
Max. Vis. :	300CPS
Secondary Containment & Steam Jacket :	Available, Optional.

Pump Specifications

Pump Model	Connection		Max. Flow (Ltrs/Min)	Max. Head (Meter)	Std. Duty Point Q/H	Sp. Gr. Limit	Motor/Kw	Phase Ø
	Suction	Discharge						
SD/MDP-50	¼" BSP Female	½" BSP Male	50	4.5	30LPM/4 Mtr	1.3	65 Watt	1Ø
SD/MDP-85	1½" BSP Male	1" BSP Male	100	9.5	50 LPM/6 Mtr	1.3	0.37KW	1Ø-3Ø
SD/MDP-115	1 ¼" BSP Female	1" BSP Male	120	11.5	75LPM/8 Mtr	1.3	0.55KW	1Ø-3Ø
SD/MDP-300	2" BSP Female	1½" BSP Male	280	20	12M³/hr, 12 Mtr	1.5	2.2KW	3Ø
SD/MDP-520	2 ½" BSP Female	2" BSP Male	520	28	20M³/hr, 15 Mtr	1.5	3.7KW	3Ø
SD/MDP-555	2 ½" BSP Female	2" BSP Male	520	30	25M³/hr, 20 Mtr	1.5	5.5 KW	3Ø

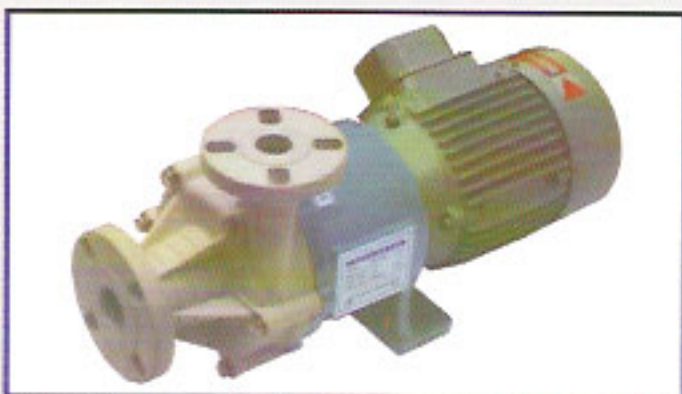
'SANDO' NON - METALLIC MAGNETICALLY COUPLED SEALLESS PUMPS

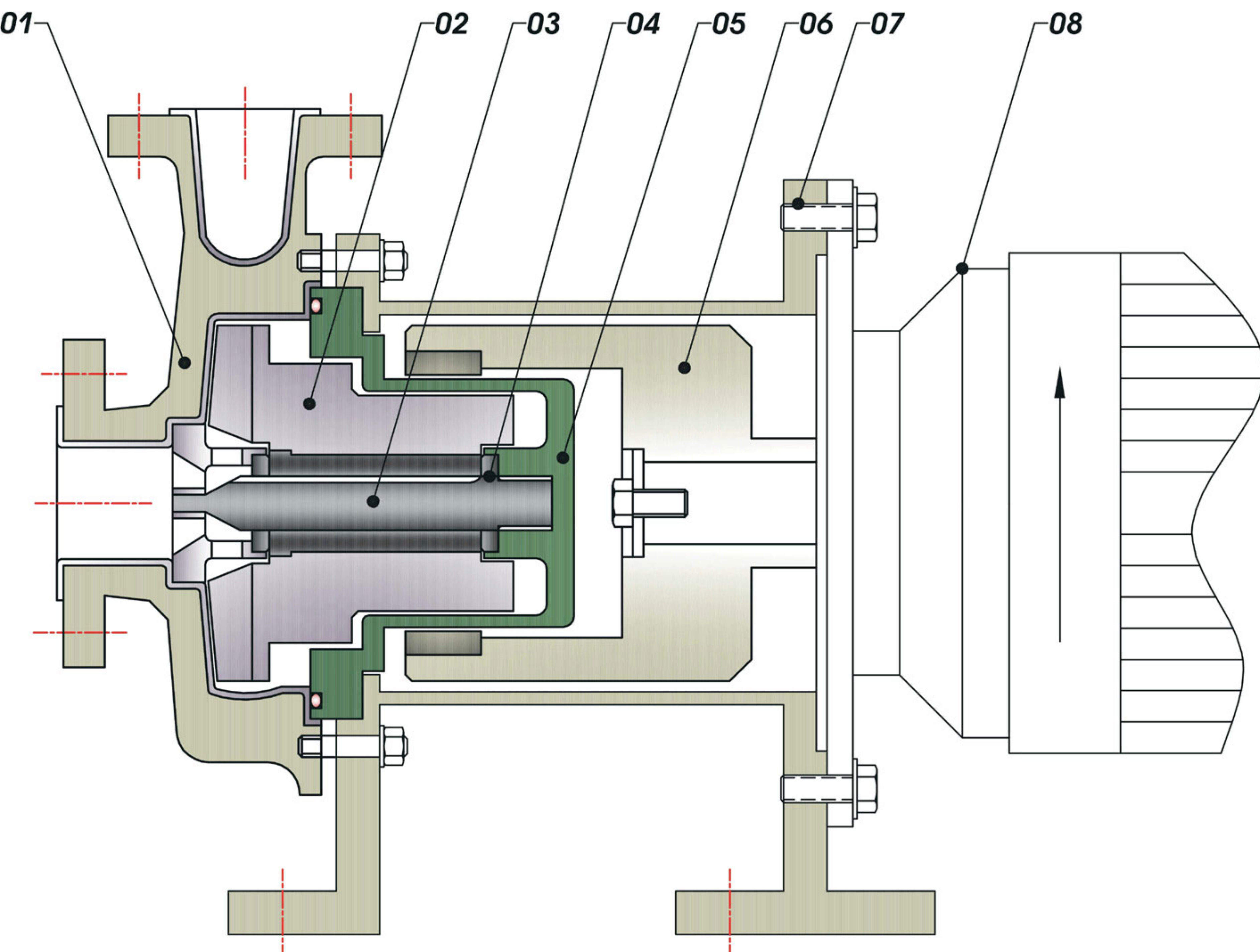
These pumps are manufactured for highly corrosive & hazardous acids & chemicals not having very high operating temperatures. They are available in GRFPP, HSAPP, PVDF & PTFE material of construction. SD / MDP (Non Metallic Series) starts from as low as 10Litres per Minute Capacity.



APPLICATIONS

Sealless features make these pumps perfect for following applications: Chemical, Pharmaceuticals, Electroplating, Metal Recovery Systems, Metal Finishing, Colour Photo Processing, X - Ray Film, Process / PCB Plants, Refrigeration & Chilling Plants, Water Treatment Plants, Galvanizing / Anodizing Plating Plants, & many more.





CONSTRUCTION

Part No.	Part Name	Material
01	Lined Casing	ETFE Lined Cast Steel
02	Impeller Magnet with Bush	ETFE coated Alloy-20 with S.SIC
03	Centre Shaft	Sintered Silicon Carbide
04	Thrust Bearing	Sintered Silicon Carbide
05	Isolation Shell	Carbon filled PTFE
06	Driver Magnet	Mild Steel - Epoxy Coated
07	Pump Body	Mild Steel - Epoxy Coated
08	Motor	Siemens / ABB / Crompton Greaves
09	Base Frame	Mild Steel - Epoxy Coated
10	Fastners	Stainless Steel