

Sando Rotary Equipments Pvt. Ltd.



Engineering Excellence



Chemical Process Pump - PPF

SANDO ROTARY EQUIPMENTS PVT. LTD. HAS BEE PROMOTED BY TWO YOUNG TECHNOCRATES HAVING MORE THAN TWENTY YEARS OF EXPERIENCE IN THE FIELD OF ROTARY EQUIPMENTS.

OUR 'DESIGN & APPLICATION ENGINEERING CELL' STUDIES THE CUSTOMER REQUIREMENTS BASE ON THE INPUTS MADE AVAILABLE TO US AND THE VAST DATA BASE ON BEHAVIOUR OF THE FLUIDS TO ARRIVE AT THE RIGHT SELECTION OF DESIGN AND SEAL FACE COMBINATION SUITABLE FOR A PARTICULAR APPLICATION PRIOR TO THE FINALRECOMMENDATIONS.

'SANDO' HAS FOUR MANUFACTURING UNITS LOCATED IN THE VICINITY OF MUMBAI AND HAVING THE BRANCH OFFICES AT HYDERABAD, CHENNAI, BANGLORE, KOLKATA BARODA AND AHMEDABAD. THE COMPANY'S HEAD OFFICE IS LOCATED AT MUMBAI.

PRODUCT APPLICATIONS

INDUSTRIES	SERVICES				
Chemicals, Dyes & Intermediates	Organic / Inorganic Chemicals				
Oil Extraction & Waste Oil Refineries	Hydrocarbons / Volatile Liquids				
Bulk Drugs & Pharmaceuticals	Dyes & Intermediates				
Starch / Paper / Sugar Industries	Paper Stock, Starch / Maize Slurry				
Effluent Treatment Plants	Water Treatment & Distribution System				
Heating & Air Conditioning Plants	Thermic Fluid/Hot Oil				
Steam Boilers/thermic Fluid System	Boiler Feed / Booster				
Cooling Towers	Corrosive / Abrasive Liquids				

MATERIAL OF CONSTRUCTION (As per ASTM / DIN STANDARDS)

- Graded Grey Cast-Iron
- Carbon Steel (WCB) / Alloy Steel
- GF8, GF8M, GF3, GF3M, Alloy 20, CD4MGu
- 2% NiCl, Ni-Resist, D2B,
- 100% Nickel(CZ100) & Nickel Alloys, R 55, Hastalloy B/C
- Gun Metal / Bronze

CONSTRUCTIONAL FEATURES:

Pumps are as per DIN 24256 and ISO 2858 and generally conform to API 610 (7th Edition.) The design is of back pull out type. Large variety of models are available to operate at 1450 rpm and 2900 rpm at 50 Hz and 1750 rpm and 3500 rpm at 60 Hz.

Casing:

The casing has axial suction and top centre line delivery. Smooth hydraulic passages ensure high efficiency. Normal design is for foot mounted pumps. Centre line mounting for special applications are also available.

Impeller:

The impellers are of enclosed type and semi-open impellers can also be supplied. Hydraulic balancing of impellers is achieved either by back varies or by balancing holes. The impellers are statically and dynamically balanced. Reliable fixing of the impeller on shaft is achieved by using helicoil insert under impeller nut. To improve NPSH performance, inducer can be supplied.

Shaft

The Shaft is supported by two antifriction bearings to take Residual Axial Thrust and Prevent Axial Float or Radial Run Out. It is fully protected from the liquid handled by means of a Shaft Sleeve and Ptfe Gaskets between impeller Nut, Impeller Hub and Shaft Sleeve.

Stuffing Box :

The stuffing box is sealed by gland packing or by mechanical seal. Conversion from gland packing to mechanical seal is achieved by changing some standardised parts. Re-machining of stuffing box is not necessary. Stuffing box cooling is provided for high temperature applications.

Bearings

The bearings are oil lubricated. For high temperature application, bearing oil cooling arrangement is provided.

Direction Of Rotation:

Clockwise viewed from driving end.

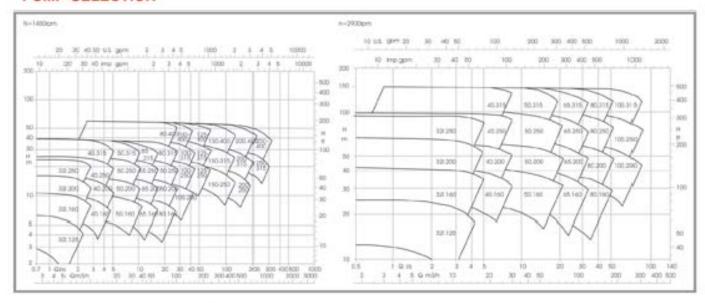
Drive:

Pumps can be driven by electric motor.

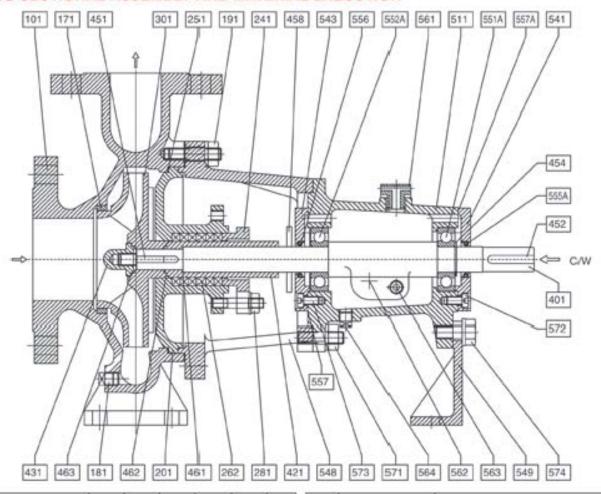
Flanges:

For Reliability and Efficiency

PUMP SELECTION



CROSS SECTIONAL ASSEMBLY AND MATERIAL EXECUTION



P. NO	DESCRIPTION	MATERIAL					QTY.
101	CASING	CI	WCB	CF8	CF8M	CN7M	1
171	CWR	CI	WCB	CF8	CF8M	CN7M	1
201	STUFFING BOX	CI	WCB	CF8	CF8M	CN7M	1
241	GLAND COVER	CI	WCB	CF8	CF8M	CN7M	- 1
301	IMPELLER	CI	WCB	CF8	CF8M	CN7M	1

P. NO	SHAFT DESCRIPTION	MATERIAL					QTY.
401		ENB	EN19	SS304	SS316	SS316	- 1
421	SLEEVE	SS410		\$\$304	SS316	AL 20	1
431	DOME NUT	CS	CS	CF8	CF8M	CN7M	- 1
511	BEARING HOUSING	CI FG Gr:200				- 1	
548	ADAPTOR	CI FG Gr:200					1



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OUR OTHER PRODUCTS















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Office :- 5 & 6 Radha Dalvi Nagar, C. P. Road, Kandivali (E), Mumbai - 400 101, INDIA.

Email ID:-sandogroup@gmail.com/sandogroup@mtnl.net.in Telephone:-022-28875456, 28870347. Fax:-028871214.

Website:-www.sandogroup.com