



Jyoti Ltd.

Water • Power • Progress

Jyoti Non-Clog Centrifugal Pump



Ideal for handling
Sewage Sludge, Chemicals and
hot liquids

ISO 9001:2015 || TUV INDIA



FAMILY CURVE OF JYOTI NON-CLOG PUMPS

The clogging and destructive action of solid substances in various liquids pose severe problems of pumping in sewage stations, chemical industries and laboratories.

'Jyoti' Non-clog Centrifugal pump offers a practical solution to these problems. Its adaptability to wide applications and its uninterrupted trouble-free service make it an obvious choice amongst sewage-cum-chemical pumps.

'Jyoti' Non-clog pump is ideal for handling liquids such as sewage, stock, suspended matter, foundation water, sugar-cane juice, milk of lime, alkalies, chemicals and hot liquids of varying composition, specific gravity, temperature, viscosity and pH value. It is useful in sewage stations, chemical industries, distilleries, laboratories, sugar mills, mines,

ice plants and for similar applications. An outcome of market-oriented R&D efforts and sound technical knowledge, 'Jyoti' Non-clog Pump is an obvious choice resulting in sustained performance under specified conditions, easy adaptability, long-life economical operation and minimum maintenance.

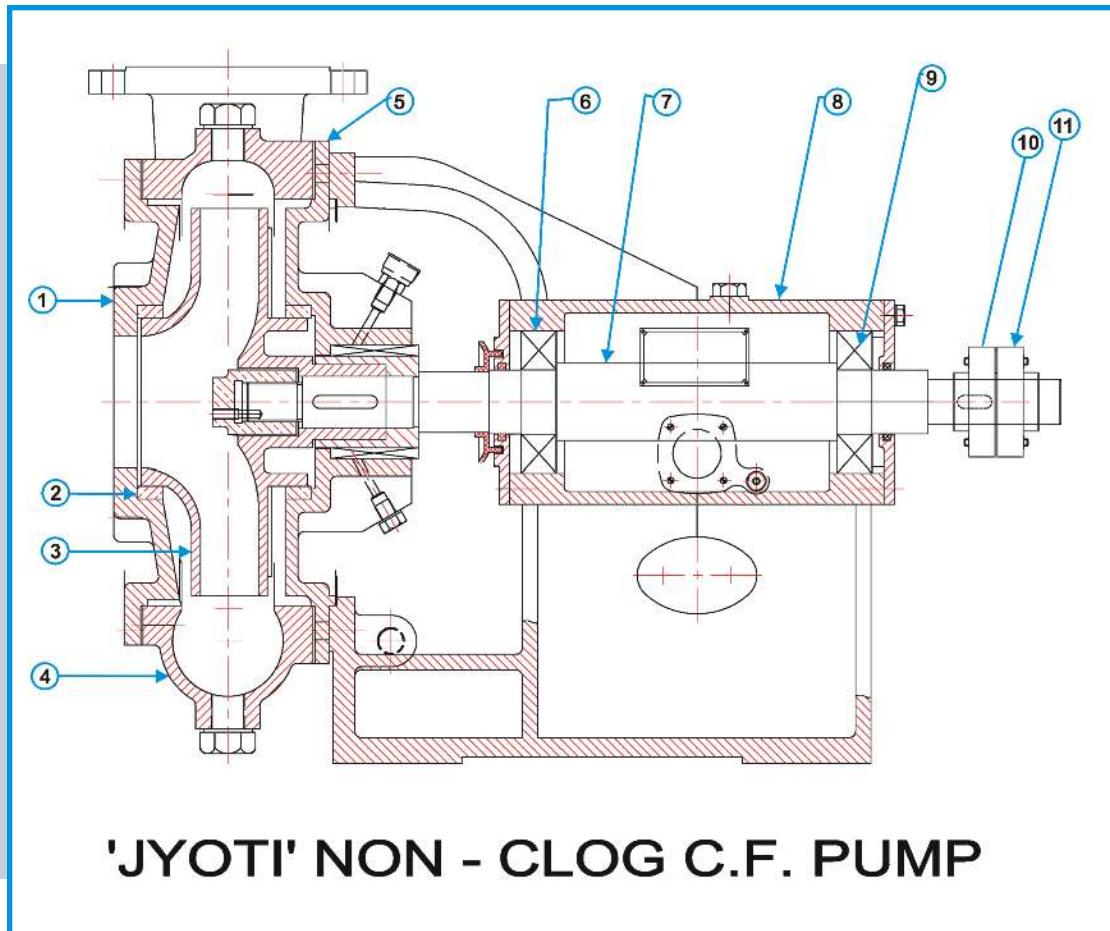
SPECIFICATIONS:

Size : Up to 600 mm

Capacity : Up to 60.000 L.P.M.

Head : Up to 70 M

For higher capacity pumps. Please write to us.



'JYOTI' NON - CLOG C.F. PUMP

Sr. No.	PART NAME	MATERIAL
1	Casing ring	C.I. IS:210318
2	Suction cover	C.I. IS:210
3	Impeller	C.I. IS:210/Br. IS:318/SS
4	Casing	C.I. IS:210
5	Stuffing box	C.I. IS:210
6	Front bearing	Antifriction SKF / Equivalent
7	Impeller shaft	Carbon steel 40C8 IS:7283/SS,AISI 410
8	bearing pedestal	C.I. IS:210
9	Rear bearing	Antifriction SKF/equivalent
10	Coupling pump	C.I. IS:210
11	Coupling motor half	C.I. IS:210

CONSTRUCTIONAL FEATURE:

DOUBLE BALL-BEARING PEDESTAL:

The bearing pedestal is sturdily built with the bearing houses and is cast in one piece. Both the bearing houses are bored in the same operation, ensuring perfect concentricity. The casing and bearing pedestal brackets are connected by close tolerance spigot and socket flanges.

Deep-groove ball bearings are properly spaced to provide rigid support to the impeller. Impeller overhang is reduced to the minimum by extending the impeller hub quite close to the pedestal. The bearings are oil-lubricated. However pumps with Grease-lubricated bearings can also be supplied on request.

Back repelling vanes have been provided on the impeller so that pressure on stuffing box and leakage through gland are minimized.

ECCENTRIC LOCKING :

The impeller is firmly locked in position by a long threaded nut. Which is held firmly in position by an eccentric screw.

IMPELLER :

It is a two/three-vane, non-clogging enclosed type impeller with wide passages capable of carrying soft solids and other non-stringy materials. Semi-open type impellers can also be supplied on request.

BALANCING :

Hydraulic balancing of the impeller is achieved by means of back vanes; which also relieves the pressure on the stuffing box to a large extent.

In order to ensure smooth running and freedom from vibrations, every pump impeller is carefully balanced.

STUFFING - BOX :

The stuffing box is of versatile design, open to many adaptations to meet varying service conditions.

The gland packing is normally grease-lubricated. However, it can be fed easily with pressurised run-through water. Water can be injected through the hole where the grease pipe is normally connected and water can be taken-off from the opposite side. This is especially useful when the pump is required to handle hot liquids.

If so desired, externally pressurized water lubrication can be provided.

MATERIAL OF CONSTRUCTION:

Pumps are available in standard material of construction as indicated. Special material of construction can be given on request. Material of construction for handling chemicals is recommended according to the best known practice and careful thought is given to the chemical composition, Specific gravity, viscosity, temperature and pH value of the liquid pumped.

CASING:

The casing is liberally proportioned for non-clogging action and is of sufficient strength to withstand 1.5 times the maximum pressure.

HAND-HOLE COVER :

Bolted on the casing surface and easy to open and refit. The hand-hole cover facilitates inspection and cleaning of the casing and impeller.

SHAFT:

Sturdy shaft is used to provide rigid support to the impeller and to take care of the shocks resulting from severe service conditions.

SHAFT SLEEVE :

This protects the shaft against wear rendering the shaft a non-replaceable component.

The sleeve is firmly locked against the shaft shoulder to prevent air leakage.

ANTI-FRICTION BALL BEARINGS :

Two deep-groove anti-friction ball bearings are provided in the pedestal. They are liberally designed to carry radial and axial thrust loads.

WATER DEFLECTOR :

This is provided between the gland and the bearing pedestal, it prevents leaking-water from entering the bearing-house.

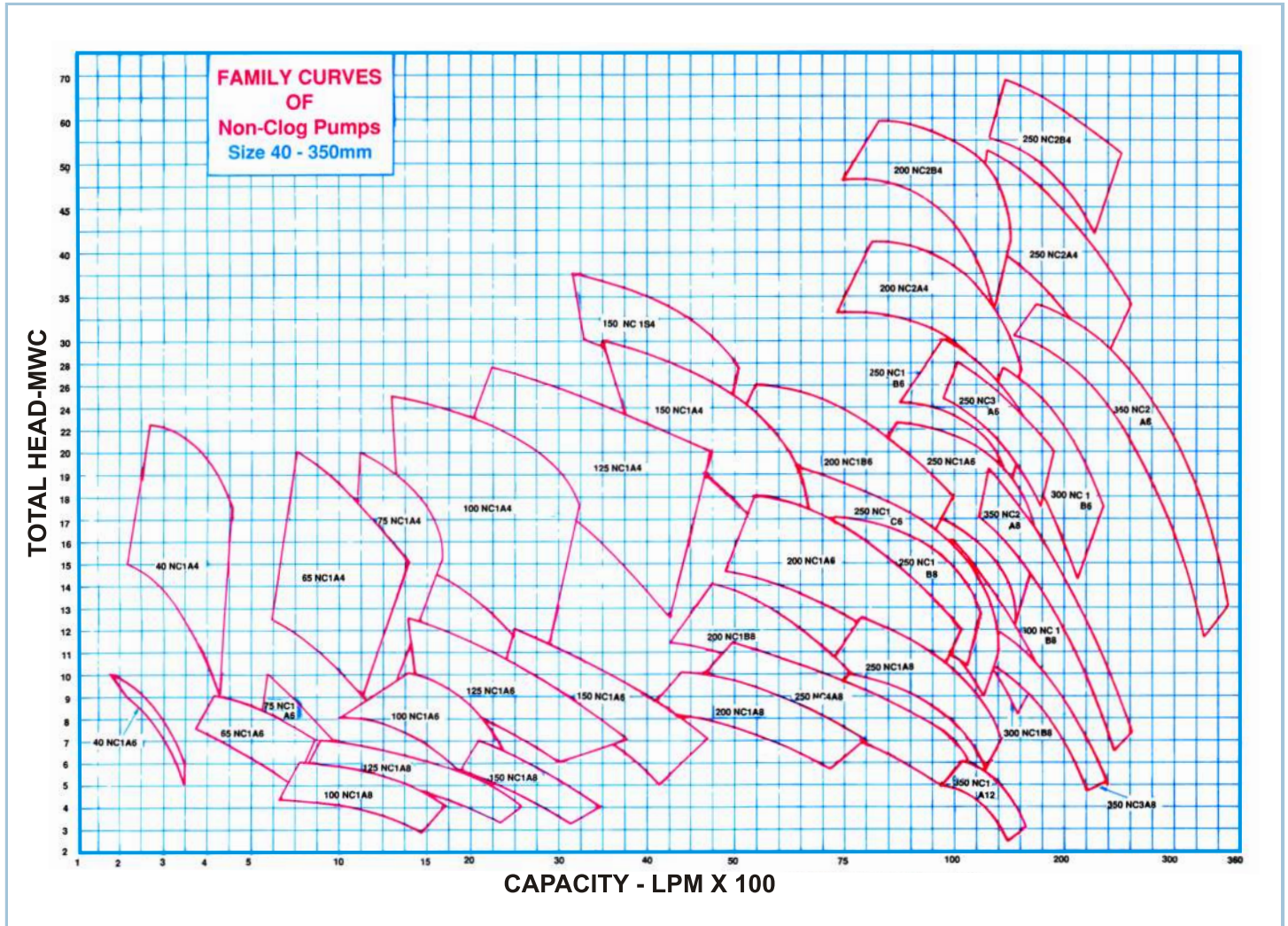
BASE PLATE:

Pump-sets are mounted on cast iron or fabricated mild steel base plates.

DRIVES :

These pumps are suitable for direct coupling as well as belt drives. Pump runs in anti-clockwise direction when viewed from the coupling side.

FAMILY CURVE OF JYOTI NON-CLOG PUMPS



FOR FURTHER ENQUIRIES PLEASE CONTACT **BRANCH OFFICES**

PUMP DIVISION

Nanubhai Amin Marg, Industrial Area,
P.O. Chemicals Industries,
Vadodara-390 003 (India).
Phones : +91-265-3054444
Fax : +91-265-2281871
2280671
E-mail : pumps@jyoti.com
Website : www.jyoti.com

- Bangalore** : 35/3, 2nd Floor, Novelty Mansion, 2nd Cross, IV Block, Kumarapark West, Bangalore-560 020. Telefax : 080-23562248 E-mail : bangalore@jyoti.com
- Chennai** : VEE DEE YEM Complex, 1st Floor, 270, Lloyds Road, Royapettah, Chennai 600014, Ph. : 044-28131754, Fax : 044-28133178, E-mail : chennai@jyoti.com
- Indore** : E-mail : indore@jyoti.com (Resident Representative (M) 09303211776)
- Kolkata** : 45, Jhowtalla Road, Syed Amir Ali Avenue, Kolkata-700 019, Ph. : 033-22902056, Fax : 033-22875267, E-mail : kolkata@jyoti.com
- Mumbai** : Narsinh Sadan, Flat No. 102, 1st Floor, 1st Road, Golibar, Santacruz (East), Mumbai-400 055. Ph. : 022-26134403 (D), 26122848, E-mail : mumbai@jyoti.com
- New Delhi** : 7, Jantar Mantar Road, New Delhi-110 001. Ph. : 011-23340576, E-mail : delhi@jyoti.com
- Secundrabad** : 5-4-187/7, 1st Floor, Karbala Maidan, M. G. Road, Secundrabad-500 003. Ph. : 040-27544587 (D), 2754708 Fax : 040-27543673, E-mail : jyotisecc@jyoti.com

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