

mody ELECTRIC SUBMERSIBLE SLUDGE / NON-CLOG PUMP

NC SERIES

PORTABLE ELECTRIC
SUBMERSIBLE PUMP
FOR
CORROSIVE & ABRASIVE
APPLICATIONS

Model NC 06350 M/1
3" or 4" HOSE (FLANGE OPTIONAL)
(Low Volume - Low Head)

Model NC 08350 M/1
4" HOSE (FLANGE OPTIONAL)
(Medium Volume - Medium Head)

Model NC 10350 M/1
4" HOSE (FLANGE OPTIONAL)
(High Volume - High Head)

Available 6 HP to 10 HP



SLUDGE / NON-CLOG SERIES ADVANTAGES

- Built-in automatic ON/OFF/ON thermal Switches protect the motor. Thermal Protectors wired directly to built-in contactor for maximum reliability.
- Can be equipped with moisture sensor that detects progressive seal wear and automatically shuts down the pump (Optional).
- 431 Stainless Steel Shaft, 410 hardened Impeller and 304 SS Hardware for maximum corrosion resistance.
- Choice of impeller materials :
 - 1) 304 Stainless Steel for sea water and corrosive applications and;
 - 2) hardened 410 Stainless Steel (HRC 50-55) for abrasive applications.
- Patented Twin Seals in tandem of Tungsten Carbide V/S Tungsten Carbide
- Mechanical Seals in wholly enclosed pressure compensated oil chamber to optimise seal life.
- Replaceable Nitrile Rubber-lined Wear Plate optimizes efficiency throughout the life of the pump.
- Can be equipped with sacrificial Zinc Anodes for maximum life in a saline fluid environment as well as an in-built non return valve or water level controller (optional).
- Also available in Cast Iron construction.



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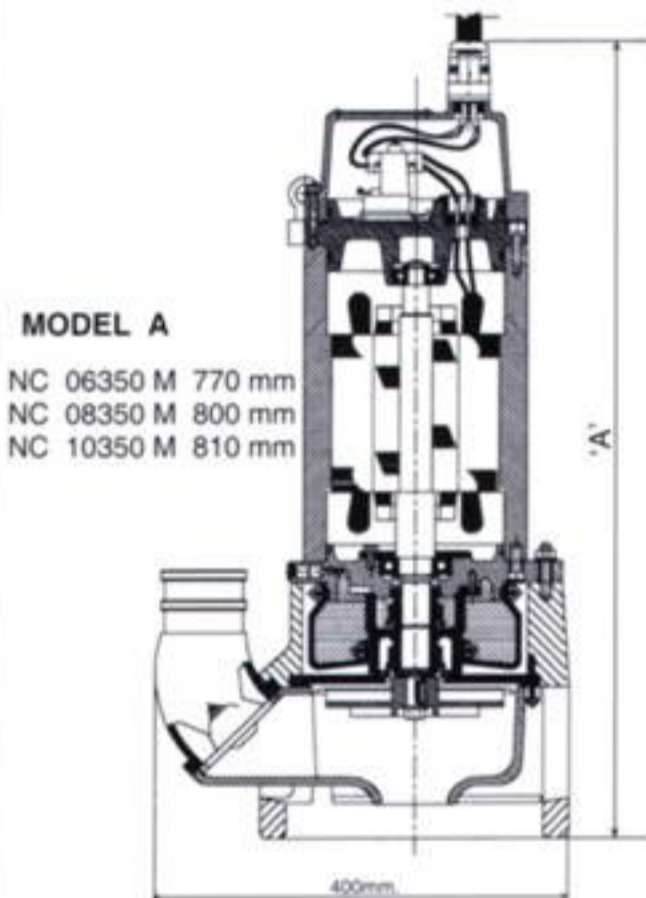
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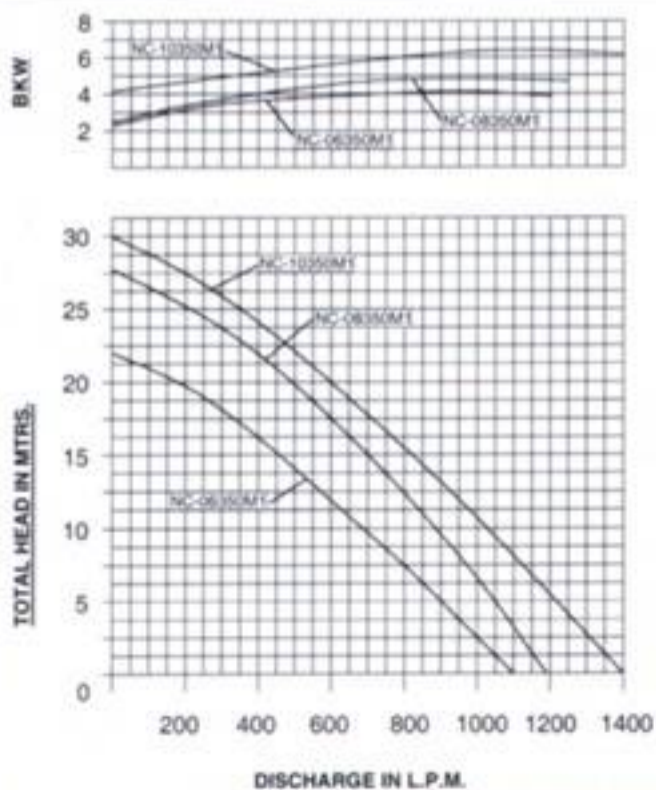


MODEL A

NC 06350 M 770 mm
NC 08350 M 800 mm
NC 10350 M 810 mm

Max. Sphere size 60mm

PERFORMANCE CURVE



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MATERIALS OF CONSTRUCTION AND ENGINEERING DATA

MOTOR

2-Pole Induction Continuous rated motor with squirrel cage rotor.
Stator insulation class 'F' (155°)
Speed : 2800 RPM (approx)
Power Rating :

	NC06350M/1	NC08350M/1	NC10350M/1
Current At 415 volts. :	4.5 KW	6.0 KW	7.5 KW
Max temperature of the pump liquid : 40°C.	9.8 Amps.	12.0 Amps.,	15.5 Amps.
Max start/stop per hour : 15.			

POWER SUPPLY

415V±6%, 3 Phase, 50 Hz±3%, AC Supply. The pump is equipped with built-in contactor which trips at excessively high motor temperature through the Bimetallic switches in the winding. Can also be configured for specific voltage and frequency combination.

BALL BEARINGS

The rotor shaft is carried in two ball bearing. The lower bearing is a double row angular contact bearing capable of carrying high thrust & radial loads. The upper bearing is a deep groove single row ball bearing. The bearings are filled with high temperature grease containing special anti-corrosive additive with no maintenance required for life.

POWER CABLE

Water proof/Oil proof EPR insulated copper conductor flexible cable fitted with strain relief grip., 15 mtrs. length, 4 core, 2.5 sq. mm.

SHAFT SEAL

Twin seals in tandem. Extremely compact resulting in short shaft overhang reducing shaft deflection to minimum. Seal faces of TUNGSTEN CARBIDE V/S TUNGSTEN CARBIDE ensures long life between service intervals. The seals are wholly enclosed in a pressure compensated oil chamber.

MATERIALS OF CONSTRUCTION

STATOR CASING : Extruded Aluminium Alloy
SHAFT : Stainless Steel AISI 431.
IMPELLER : Stainless Steel AISI 410 (HARDENED 50-55 HRC) / SS304 (OPTIONAL)
PUMP VOLUTE : Stainless Steel AISI 304
HARDWARE : Stainless Steel AISI 304

SUBMERGENCE

Submergence below liquid surface min 60 mm, max. 15 mtrs

WEIGHT

Without cable :	NC06350M/1	NC08350M/1	NC10350M/1
	60 KGS	65 KGS.	68 KGS.

(OPTIONAL ITEMS LISTED ARE AVAILABLE AT EXTRA COST)

Due to product development, specifications may be subject to change.