



Self-priming Mud Pumps



Introduction —————

NRM series pumps are self-priming centrifugal pumps with open/ semi open impeller handling polluted liquids with large diameter suspended solids. The solid rugged design with replaceable wear plate and back pull out design makes it most reliable option.



Features & Benefits

- Quick self-priming action without foot-valve up to 7.5m.
- Easy inspection of impeller.
- Simple construction having back-pullout design.
- Pumping large size diameter solid in suspension.
- Reliable and robust construction.
- Reliable water supply.
- Available in mono-block and bare shaft design for couple set version.
- Non-clogging impeller flow design which can handle Suspended Solids up to 20 mm.
- Thermally protected motors which prevents motor from burn out.
- Rotating parts are dynamically balanced which ensure vibration free performance and enhanced life.

Application

NRM pumps are used when one or more of the following are required:

Self priming || Solid / Polluted handling || Resistance to abrasion.

NRM Pumps can handle liquids up to a Viscosity of about 50 mm²/s (cst)

■ WASTE TREATMENT

Pumping Out settled Sludge, Pumping polluted, hot or corrosive waste water containing sand, mud or solids, in suspension, dosing neutralizing liquid, pumping out settled sludge Effluent Treatment Plant.



■ INDUSTRY

Transfer of clean or dirty, neutral, Petrochemical, fertilizers, pharmaceutical, dyes & intermediate industries, effluent treatment plants, food processing plants, sewage plants, starch, paper, sugar plants, thermic fluid circulations, fatty acid distillation plants.



■ CIVIL ENGINEERING

De-Watering Construction Sites, basement, trenches, Food Waste in restaurants, Swimming pool filtration.



■ MARINE DUTY

Loding or Unloading Sanitary duty. Cleaning bilges.



■ AGRICULTURE

Surface irrigation, Liquid manure Oxygenation, Distribution & Liquid animal feed, Portside Liquid or fertilizers



TECHNICAL SPECIFICATION

Head Range	:	Upto 36 mtr.
Discharge Range	:	Upto 80 lps
Power Rating	:	0.75 - 18.7 KW (1- 25 HP) Motor Coupled*
Voltage Range	:	440v (3 phase), 180 - 240v (1 phase)
Class Of Insulation	:	F class

MATERIAL OF CONSTRUCTION

Impeller	:	Cast iron / Stainless Steel
Motor Body	:	Cast Iron
Delivery Casing	:	Cast Iron
Shaft	:	Carbon Steel / Stainless Steel
Shaft sleeve	:	Stainless Steel
Sealing	:	Gland packed / Mechanical Seal

Water Rating Chart - Monoblock & Motor Coupled

Pump Model	PIPE SIZE Suc. X Del (MM)	Rating KW HP		Nominal Speed (r.p.m.)	solid handling size (MM)	TOTAL HEAD (in Meter)																
						5	8	10	12	14	16	18	20	22	24	25	26	28	30	32	34	36
						DISCHARGE LITRES PER SECOND																
NRM-05M	40 X 40	0.37	0.5	2850	7	1.9	1.3	0.9														
NRM-10M/NRM-10	40 X 40	0.75	1	2850	7.5	5.2	4.4	3.9	3.5	2.5	0.8											
NRM-15M	40 X 40	1.1	1.5	2850	8	5.6	5.2	4.8	4.5	3.9	2.9											
NRM-20M/NRM-20	40 X 40	1.5	2	2850	8.5		6.6	6.2	5.4	4.8	3.9	2.7	1.1									
NRM-30M/NRM-30	50 X 50	2.2	3	2850	10.5			9.4	8.9	7.9	7.2	6.3	5	3.9	2.4	1.6	0.7					
NRM-50/50U	80 X 80	3.7	5	1450	17		18.5	17.8	16.4	13.5	9.3	4.7	9.8									
NRM - 50M/ NRM - 51	80 X 80	3.7	5	2850	17									9	8.1	7.5	7.2	6.4				
NRM -75M/ NRM - 75	80 X 80	5.5	7.5	2850	17								15.6	15.2	14.2	13.9	13.2	11.8				
NRM-100	100 X 100	7.5	10	1450	18.5			34.5	32.9	31.3	27.6	24.2	21.3	17.3	12.9	10	6.8		5.6	4.8	3.6	2
NRM-125	100 X 100	9.3	12.5	1450	23			42.3	39	35.7	34.3	39.5	26.2	22.8	18.6	16.2	13.4	5.7	10	7.7	5	3.1
NRM-200	150 X 150	15	20	1450	34			66.1	63.1	59.4	54.8	48.8	42.2	34.1	23.7							
NRM-250	150 X 150	18.7	25	1450	40			74	71.8	67.9	63.8	51.7	51.7	44.8	33.7	27.3	19.7					

* Performance with Diesel eng.

■ Performance are at 2900/1450 RPM, 50/60 Hz and tested with Clear Water. Details are subject to change without prior notice.

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