



**C.R.I. PUMPS**  
Pumping trust. Worldwide.



**AGRICULTURAL PUMPS**



## 125mm/100mm Borewell Submersible Pumpsets NILE<sup>+</sup> Series

C.R.I. Nile+ 125mm/100mm Borewell submersible pump is firmly coupled to a submersible electric motor which operates submerged beneath the surface of water. The optimal design of impeller and diffuser enables the best possible hydraulic efficiency. Built-in check valve prevents back flow and reduces the risk of water hammering.

### SALIENT FEATURES

- T - Bolt design in all Motor ensures rigid construction
- Specially designed Deep Drawn type pump ensures perfect alignment and thereby increases the life of the pumpset
- High operating efficiency and more durability
- Specially designed Thrust Bearings to withstand high axial thrust loads
- Designed for Wide Voltage operation
- Best suitable for 150mm under size borewell

### APPLICATION

- Agricultural & Irrigation
- Sprinkler system
- Domestic water supply
- Pressure boosting
- Industrial and Mining



## SPECIFICATIONS

Power range	3.7kW – 7.5kW (5 HP to 10 HP)
Speed	2850 RPM
Version	Single phase 220 - 240V; Three phase 380 – 415V; 50Hz AC Supply
Maximum total head	650 Metre
Maximum flow rate	3 lps (10.8 m <sup>3</sup> /h)
Maximum outer diameter	121 mm
Nominal outlet size	32 & 40 mm
Degree of protection	IP 58
Direction of rotation	1Ph - Counter Clockwise from driving end; 3Ph - Electrically reversible
Thrust load	2.2 kW – 4.5 kW – 3500 lbs; 5.5 kW – 7.5 kW – 6000 lbs
Minimum cooling flow along the motor	0.15 m/sec
Type of duty	S1 (Continuous)
Method of starting	Direct Online (D.O.L) / Star Delta (SD)
Maximum starts per hour	20 times

Works upto  
**2100ft\***  
(640 mtrs)

**T-Bolt  
Design**

**High depth  
Operation**



# PERFORMANCE CHART

## 125mm/100mm BOREWELL SUBMERSIBLE PUMPSETS - NILE+ Series

2850 RPM - At Rated Voltage – Single Phase 240 Volts, 50Hz, A.C. Supply, Three Phase 415 Volts, 50Hz, A.C. Supply.

Model	kW	HP	Stage	Outlet Size in mm	Head in Metres	DISCHARGE												
						RADIAL FLOW												
						m <sup>3</sup> /hr	0	3.24	3.60	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	10.80
lps	0	0.9	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	3.0						
CRI4R-5/32	3.7	5	32	40	227	198	192	179	163	148	118	83						
CRI4R-8/28	4.5	6	28	40	203			177	172	165		143	131			103	71	
CRI4R-8/34	5.5	7.5	34	40	244			216	210	201		176	160			127	91	

### MATERIAL OF CONSTRUCTION - MOTOR

Part Name	Material
Upper & Lower Housing	Cast Iron
Upper & Lower Housing Shell	SS 304
Stator Shell	SS 304
Shaft	SS 410
Journal Bushes	LTB - 4
Thrust Assembly	SS 420 and Graphite Carbon
Diaphragm	High Nitrile Butyl Rubber

### MATERIAL OF CONSTRUCTION - PUMP

Part Name	Material
Check Valve & Suction Housing	Cast Iron
Pump Shaft	SS 304
Impeller	Noryl
Stage Casing	SS 304
Coupling	SS 410
Bracket Bush	LTB - 4 / Nitrile Rubber
Bracket Sleeve	SS 410



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