NORTHAM

Groundwater and Residential Pumps









www.northam-inc.com

NORTHAM

Northam Inc. is a professional manufacturer of Submersible Pumps and Motors located at Clarks Summit, Pa. We have a comprehensive and sustainable range of products for all Deep Well requirements for Residential, Irrigation and Commercial and Industrial applications.

We are committed to providing quality products at a competitive price and a timely delivery as a pumping solution that would delight our customers.

Our products have been designed and manufactured to ensure sustainability. We always prefer to use raw materials in design which are recyclable and don't end up in landfills. We also ensure that our products consume the least amount of energy to get the job done.

Over the next few years, we shall be continuously expanding our product range to include pumps for Pressure Boosting, HVAC, Industrial, Fire Fighting, as well as Sewage and Drainage applications.



NORTHAM®©

CONTENTS

Stainless Steel Fabricated Submersible Pumps	4
Thermoplastic Submersible Pumps	5
Investment Cast Stainless Steel Submersible Pumps	6
Cast Iron Submersible Turbine Pumps	7
4 inch Encapsulated Water Filled Submersible Pump Motors	9
4 inch Rewindable Water Filled Submersible Pump Motors	9
6" , 8" and 10"and above Water Filled Submersible Pump Motors	10
8", 10" and 12" 4 pole Submersible Pump Motors	11
Submersible Pump Motor Starter Control Panel	12
Submersible Pump Cable	13
Shallow Well Jet Pumps	14
Horizontal Multistage Booster Pumps	15
Lawn Sprinkler Pumps	16

STAINLESS STEEL FABRICATED SUBMERSIBLE PUMPS

NS SERIES

FEATURES

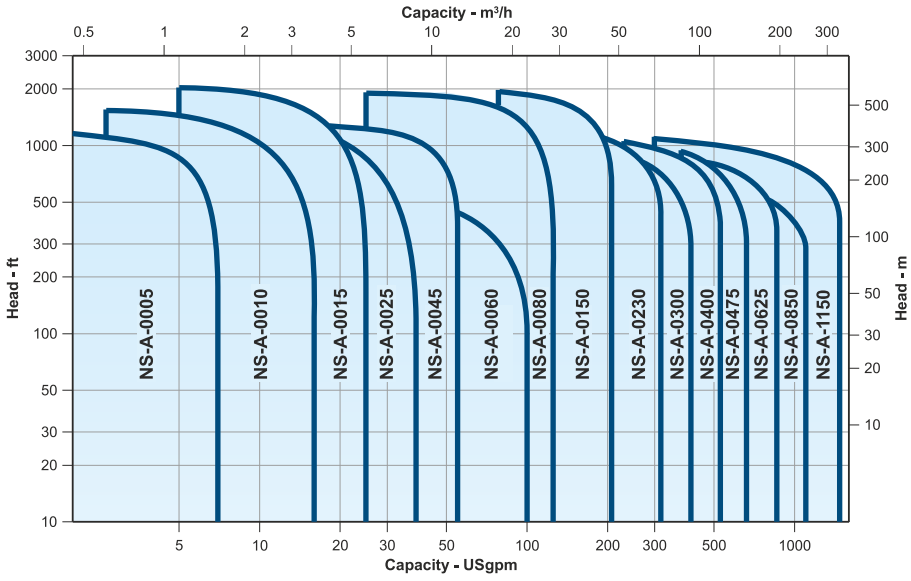
- Corrosion resistant stainless steel sheet metal construction.
- Higher pump efficiency, reduces energy consumption.
- Equipped with check valve to prevent the pump against water hammer.
- Equipped with rubber wear rings as well as bush bearings for efficient operation in sandy well water.
- Suitable for vertical as well as horizontal installation.

APPLICATIONS

- Residential
- Irrigation
- Industrial
- Municipal

OPERATING RANGE & CONDITIONS

	4" Pump	6" Pump	8" Pump	10" Pump
Flow ratings	5, 10, 15, 25, 45 & 60 GPM	80, 150, 230 & 300 GPM	400 & 475 GPM	625, 850 & 1150 GPM
Maximum head	2100 feet	2000 feet	1200 feet	1100 feet
Pump ratings	0.5 - 20 hp	1.5 - 75 hp	7.5 - 125 hp	15 - 250 hp
Liquid temperature	113 °F	113 °F	113 °F	113 °F
Max. sand content	50 ppm	50 ppm	50 ppm	50 ppm





Pump Size	Model Name	Rated Flow
4" PUMP	NS-A-0005	5 GPM
4" PUMP	NS-A-0010	10 GPM
4" PUMP	NS-A-0015	15 GPM
4" PUMP	NS-A-0025	25 GPM
4" PUMP	NS-A-0045	45 GPM
4" PUMP	NS-A-0060	60 GPM

Pump Size	Model Name	Rated Flow
6" PUMP	NS-A-0080	80 GPM
6" PUMP	NS-A-0150	150 GPM
6" PUMP	NS-A-0230	230 GPM
6" PUMP	NS-A-0300	300 GPM

Pump Size	Model Name	Rated Flow
8" PUMP	NS-A-0400	400 GPM
8" PUMP	NS-A-0475	475 GPM
10" PUMP	NS-A-0625	625 GPM
10" PUMP	NS-A-0850	850 GPM
10" PUMP	NS-A-1150	1150 GPM

FEATURES

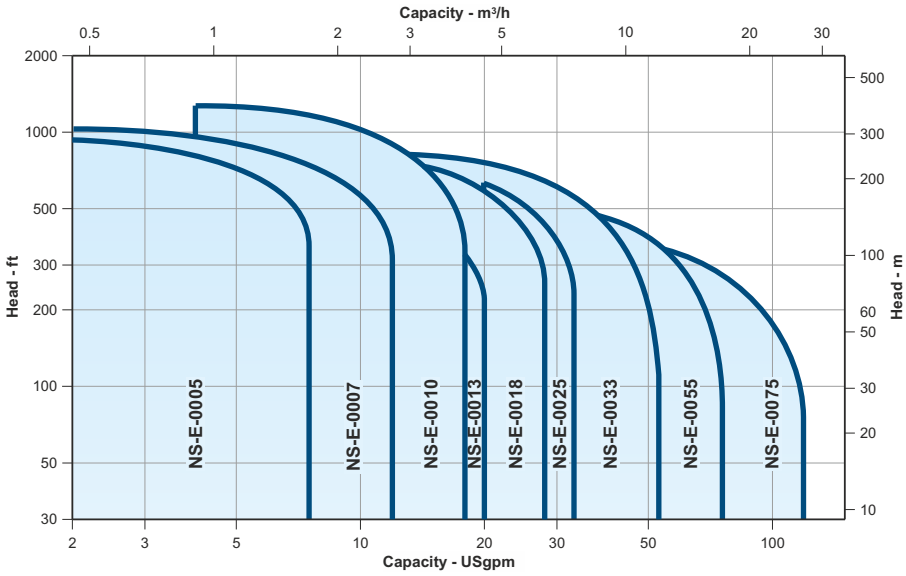
- Abrasion-resistant construction. Stainless steel bowl casing combined with front wear plate on floating impeller, ensures optimum resistance to abrasion.
- The suction case & discharge head are made of precision cast stainless steel, ensuring resistance to corrosion, durability and a sturdy coupling to the motor.
- Stainless steel oversized pump shaft guarantees an effective impeller drive.
- A stainless steel non-return valve is fitted in the discharge to prevent any back flow of water and alleviate any water hammer to the pump, thus safeguarding impellers & diffusers.
- These pumps can be coupled to either the 4” or 6" Water Filled rewindable or Encapsulated or Oil Filled submersible motors.
- Units have left hand threads and are field serviceable with common tools and readily available repair parts.
- Face clearance and floating impeller stack provides itself as a superior sand handling, durable pump design.
- Impellers, diffusers and bearing spiders are constructed of corrosion resistant glass reinforced engineering composite material.
- The proprietary, engineered polymer bearing material is strong and resistant to abrasion & wear. The enclosed intermediate and upper bearing is mounted in a durable glass reinforced thermoplastic bearing spider for excellent abrasion resistance.
- Easy access to motor mounting nuts using standard open end wrench.
- Stainless steel casing is strong and corrosion resistant.

APPLICATIONS

- Residential
- Irrigation
- Industrial

OPERATING RANGE & CONDITIONS

Flow ratings	5, 7, 10, 13, 18, 25, 33, 55 & 75 GPM
Maximum head	1300 feet
Pump ratings	0.5 - 20 hp
Liquid temperature	+32 °F to +113 °F
Max. sand content	50 ppm



Pump Size	Model Name	Rated Flow
4" PUMP	NS-E-0005	5 GPM
4" PUMP	NS-E-0007	7 GPM
4" PUMP	NS-E-0010	10 GPM
4" PUMP	NS-E-0013	13 GPM
4" PUMP	NS-E-0018	18 GPM

Pump Size	Model Name	Rated Flow
4" PUMP	NS-E-0025	25 GPM
4" PUMP	NS-E-0033	33 GPM
4" PUMP	NS-E-0055	55 GPM
4" PUMP	NS-E-0075	75 GPM



INVESTMENT CAST STAINLESS STEEL SUBMERSIBLE PUMPS

FEATURES

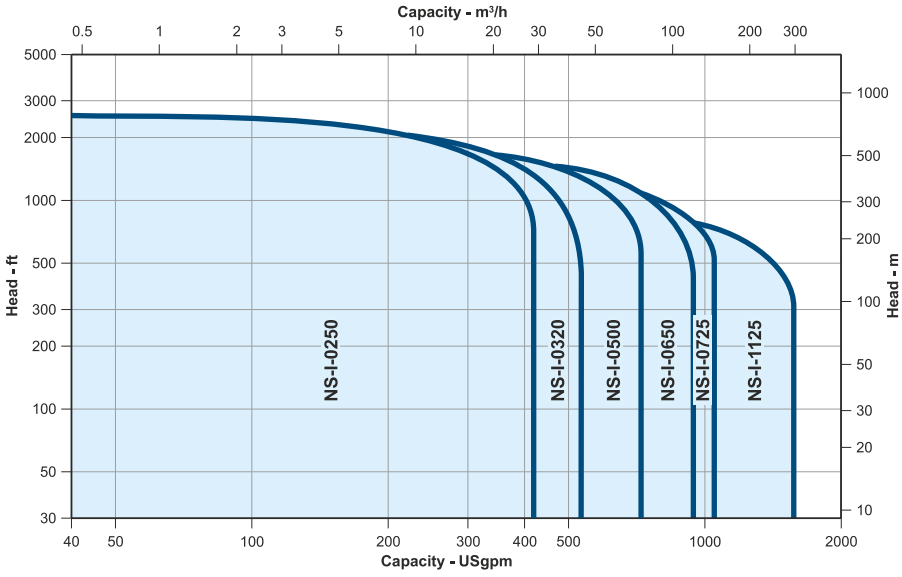
- All pumps have been designed using computational fluid dynamics to ensure maximum efficiency.
- All pumps are designed using material which can work with sand found in the deep well.
- All journal bearing and impeller wear rings are made of nitrile rubber to ensure that performance of pumps remain the same over a longer period of time.
- All pumps are provided with upthrust bearing to control axial movement of the impeller assembly during transportation as well as start-ups.
- To prevent water hammer when the pump is stopped, all pumps are provided with a non-return valve.

APPLICATIONS

- Agriculture & Irrigation
- Municipal water supply
- Industrial water supply

OPERATING RANGE & CONDITIONS

	8" Pump	10" Pump
Flow ratings	250, 320, 500 & 650 GPM	725 & 1125 GPM
Maximum head	2500 feet	1400 feet
Pump ratings	15 - 125 hp	40 - 250 hp
Liquid temperature	113 °F	113 °F
Max. sand content	50 ppm	50 ppm



Pump Size	Model Name	Rated Flow
8" PUMP	NS-I-0250	250 GPM
8" PUMP	NS-I-0320	320 GPM
8" PUMP	NS-I-0500	500 GPM
8" PUMP	NS-I-0650	650 GPM

Pump Size	Model Name	Rated Flow
10" PUMP	NS-I-0725	725 GPM
10" PUMP	NS-I-1125	1125 GPM



FEATURES

- Discharge Outlet: Heavy duty Class 30 Cast Iron with NPT threads in various sizes.
- Discharge Pump Bearing: Bronze Bearing of adequate size, sealed from top to prevent entry of sand. It provides accurate alignment of pump shaft for longer life.
- Upthrust Bearing : Designed and manufactured from materials to adequately handle momentary upthrust during starting.
- Impeller: High efficiency hydraulic design with good efficiency over a broader range of flow. Standard is Stainless Steel 304, but can be provided in No Lead Bronze also for drinking water applications. Dynamically balanced for vibration free long bearing life.
- Bowl Diffuser: Class 30 Cast Iron with adequate wall thickness. Can be provide with glass enamel for better efficiency and abrasion resistance against sand.
- Intermidiate Bowl bearings: Reliable long life rubber bearings. Bronze available on request.
- Taper Collets: Accurately machined from Stainless Steel 304 for providing positive locking of Impeller to pump shaft.
- Pump Shaft: High Strength and properly sized 416 stainless steel shaft is centreless precision ground for accuracy and smooth polished surface finish to work against the Bronze and Rubber bearings.
- Suction Case: Class 30 Cast Iron as standard or Ductile Iron on request. Precision machined for accurate coupling with motor. Provided with a Bronze bearing for accurate alignment through a pump coupling to the motor shaft.
- Suction Screen: Properly designed to prevent entry of small pebbles or stones in the pump. Extra thick and made from Stainless Steel 304.
- Cable guard: Adequately sized for motor cable and made from Stainless Steel 202.
- Fasteners: All fasteners are made of stainless steel 304 for protection against corrosion. Stainless Steel 316 fasteners are available on request.

APPLICATIONS

- Agriculture & Irrigation
- Municipal water supply
- Industrial water supply

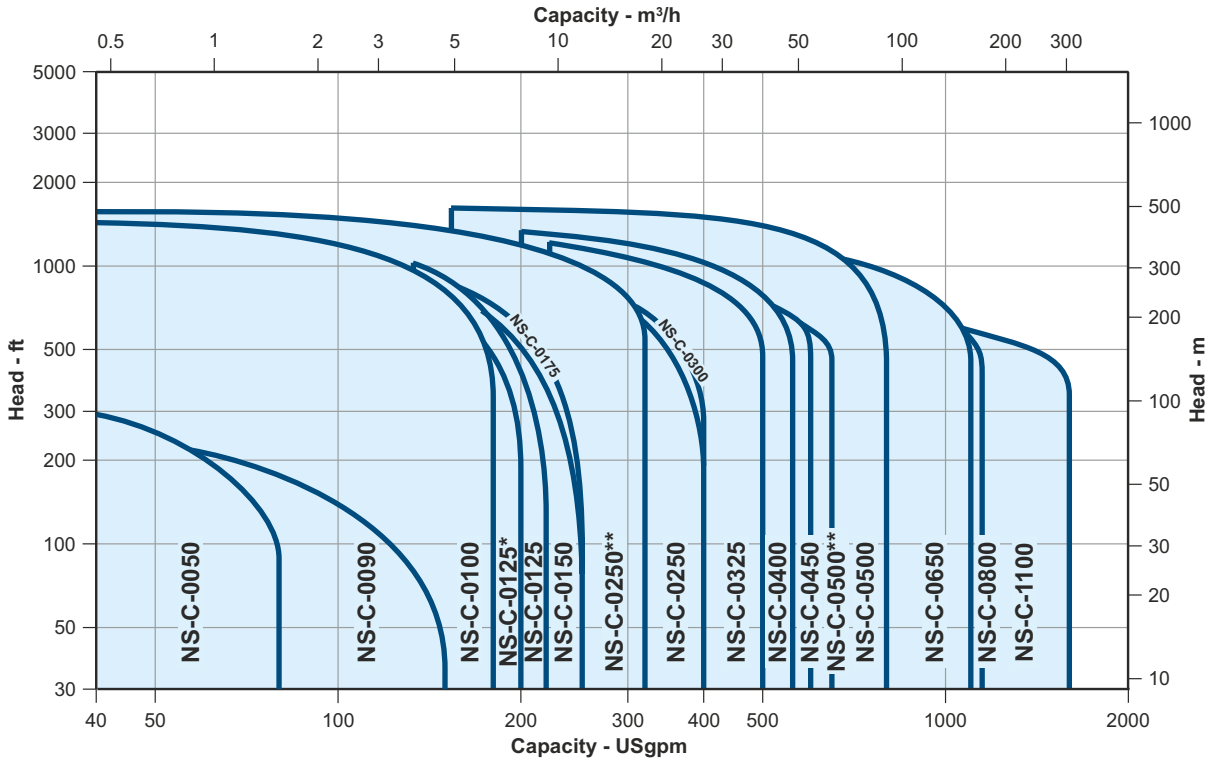


OPERATING RANGE & CONDITIONS

	4" Pump	6" Pump
Flow ratings	5, 10, 15, 25, 45 & 60 GPM	80, 150, 230 & 300 GPM
Maximum head	2100 feet	2000 feet
Pump ratings	0.5 - 20 hp	1.5 - 75 hp
Liquid temperature	113 °F	113 °F
Max. sand content	50 ppm	50 ppm

	8" Pump	10" Pump
Flow ratings	400 & 475 GPM	625, 850 & 1150 GPM
Maximum head	1200 feet	1100 feet
Pump ratings	7.5 - 125 hp	15 - 250 hp
Liquid temperature	113 °F	113 °F
Max. sand content	50 ppm	50 ppm

CAST IRON SUBMERSIBLE TURBINE PUMPS



NOTE: * 6" pump
** 8" pump

Pump Size	Model Name	Rated Flow
4" PUMP	NS-C-0050	50 GPM
4" PUMP	NS-C-0090	90 GPM

Pump Size	Model Name	Rated Flow
5" PUMP	NS-C-0100	100 GPM
5" PUMP	NS-C-0125	125 GPM

Pump Size	Model Name	Rated Flow
6" PUMP	NS-C-0125	125 GPM
6" PUMP	NS-C-0150	150 GPM
6" PUMP	NS-C-0175	175 GPM
6" PUMP	NS-C-0250	250 GPM
6" PUMP	NS-C-0300	300 GPM

Pump Size	Model Name	Rated Flow
8" PUMP	NS-C-0250	250 GPM
8" PUMP	NS-C-0325	325 GPM
8" PUMP	NS-C-0400	400 GPM
8" PUMP	NS-C-0450	450 GPM
8" PUMP	NS-C-0500	500 GPM

Pump Size	Model Name	Rated Flow
10" PUMP	NS-C-0500	500 GPM
10" PUMP	NS-C-0650	650 GPM
10" PUMP	NS-C-0800	800 GPM
10" PUMP	NS-C-1100	1100 GPM

4” SUBMERSIBLE ENCAPSULATED WATER FILLED MOTOR

FEATURES

- ► Hermetically canned stator with antitrack resin to prevent motor burn out.
- ► High efficiency electrical design.
- ► Removable lead connector.
- ► Water lubricated thrust and radial bearing enable maintenance free operation.
- ► Standard NEMA mounting dimensions.
- ► 3-wire submersible motor control boxes are available.
- ► All motors are inspected and tested at factory before dispatch.



NC SERIES

SPECIFICATIONS

Motor construction	
Frequency	60 Hz
Motor ratings	1 phase - 0.5 to 5.0 HP, 3 phase - 0.5 to 7.5 HP
Voltages	1 Phase - 115,230V, 3 Phase 230V,460V,575V
Pole/RPM	2 Pole / 3450 RPM
Degree of protection	IP 68
Insulation class	F
Duty rating	Continuous
Ambient temperature	86°F / 30°C
Rotation	1 phase - CCW, 3 phase - CCW
Maximum nos. of starts/hour	20
Minimum cooling flow along the motor	0.08 m/s
Mounting	Vertical

NOTE: SPECIFICATIONS ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

4" REWINDABLE WATER FILLED SUBMERSIBLE MOTOR

FEATURES

- ► Heavy duty, rewindable, water filled submersible motor.
- ► Stainless steel splined shaft
- ► Equipped with Carbon/SiC mechanical shaft seal.
- ► Water lubricated heavy duty radial and axial thrust bearings.
- ► Motors are factory-filled with clean water + Glycol mixture.
- ► High efficiency electrical design (lower operating cost).
- ► Removable lead connector.
- ► 4" NEMA coupling flange.



NM SERIES

SPECIFICATIONS

Motor construction Standard + High Thrust	
Frequency	60 Hz
Motor ratings	3 phase - 1.5 to 7.5 HP, 1 phase - 0.5 to 5.0 HP
Voltage	3 phase - 460 V, 1 phase -115V, 230 V
(Tolerance +10% / -15%)	2 Pole / 3450 RPM
Pole/RPM	IP 68
Degree of protection	Continuous
Duty rating	113 °F / 45 °C
Ambient temperature	3 phase - CCW , 1 phase - CCW
Rotation	0.5 to 3.0 HP - 20
Maximum nos. of starts/hour	5 to 7.5 HP - 10
Minimum cooling flow along the motor	0.5 to 7.5 HP = 8 - 0.25 ft/sec
Maximum submerged depth	820 feet / 350 metres
Mounting	Vertical

NOTE: SPECIFICATIONS ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

REWINDABLE WATER FILLED SUBMERSIBLE MOTOR

NM SERIES

FEATURES

- Heavy duty, rewindable, water filled submersible motor.
- Stainless steel splined shaft
- Equipped with Carbon/SiC mechanical shaft seal.
- Water lubricated heavy duty radial and axial thrust bearings.
- Counter thrust bearing.
- Motors are factory-filled with clean water + Glycol mixture.
- High efficiency electrical design (lower operating cost).
- Tropicalized design (lower winding temperature).
- 6", 8" & 10" NEMA coupling flange.
- Pressure compensation diaphragm.

SPECIAL FEATURES ON-REQUEST

- PT 100 temperature sensor.
- 50 Hz, voltage and HPs not listed in this catalog.
- Double cable for Star - Delta operation.



SPECIFICATIONS

6"	Motor construction
	Standard & Premium stainless steel
Frequency	60 Hz
Motor ratings	3 phase - 5 to 60 HP 1 phase - 5 to 15 HP
Voltage (Tolerance +10% / -15%)	3 phase - 230 V, 460 V 1 phase - 230 V
Pole/RPM	2 Pole / 3450 RPM
Degree of protection	IP 68
Duty rating	Continuous
Ambient temperature	104 °F / 40 °C
Rotation	3 phase - CCW & CW 1 phase - CCW & CW
Maximum nos. of starts/hour	5 to 30 HP - 20 40 to 60 HP - 15
Minimum cooling flow along the motor	5 to 20 HP - 0.5 ft/sec 25 to 60 HP - 1 ft/sec
Maximum submerged depth	820 feet / 250 metres
Mounting	Vertical

8"	Motor construction
	Standard & Premium stainless steel
Frequency	60 Hz
Motor ratings	3 phase - 40 to 150 HP
Voltage (Tolerance +10% / -15%)	3 phase - 230 V, 460 V
Pole/RPM	2 Pole / 3450 RPM
Degree of protection	IP 68
Duty rating	Continuous
Ambient temperature	104 °F / 40 °C
Rotation	3 phase - CCW & CW
Maximum nos. of starts/hour	40 to 75 HP - 25 100 to 150 HP - 20
Minimum cooling flow along the motor	40 to 50 HP - 0.5 ft/sec 60 to 150 HP - 1 ft/sec
Maximum submerged depth	656 feet / 200 metres
Mounting	Vertical

10"	Motor construction
	Standard & Premium stainless steel
Frequency	60 Hz
Motor ratings	3 phase, 150 to 250 HP
Voltage (Tolerance +10% / -15%)	460 V
Pole/RPM	2 Pole / 3450 RPM
Degree of protection	IP 68
Duty rating	Continuous
Ambient temperature	104 °F / 40 °C
Rotation	3 phase, CCW & CW
Maximum nos. of starts/hour	150 HP - 20 175 to 250 HP - 15
Minimum cooling flow along the motor	150 to 250 HP - 1.6 ft/sec
Maximum submerged depth	656 feet / 200 metres
Mounting	Vertical

Note: Specifications are subject to periodic changes due to continuous improvements.

► Standard & 316 Stainless Steel Construction.

FEATURES

- ► Heavy duty, rewindable, water filled submersible motor.
- ► Stainless steel splined shaft
- ► Equipped with Carbon/SiC mechanical shaft seal.
- ► Water lubricated heavy duty radial and axial thrust bearings.
- ► Counter thrust bearing.
- ► Motors are factory-filled with clean water + Glycol mixture.
- ► High efficiency electrical design (lower operating cost).
- ► Tropicalized design (lower winding temperature).
- ► 8", 10" & 12" NEMA coupling flange.
- ► Pressure compensation diaphragm.

SPECIAL FEATURES ON-REQUEST

- ► PT 100 temperature sensor.
- ► Double cable for Star - Delta operation.



8"	Motor construction
	Standard & Premium stainless steel
Frequency	60 Hz
Motor ratings	3 phase - 10 to 75 HP
Voltage (Tolerance +10% / -15%)	3 phase - 460 V
Pole/RPM	4 Pole / 1720 RPM
Degree of protection	IP 68
Duty rating	Continuous
Ambient temperature	104 °F / 40 °C
Rotation	3 phase - CCW & CW
Maximum nos. of starts/hour	10 to 75 HP - 25
Minimum cooling flow along the motor	10 to 50 HP - 0.5 ft/sec 60 to 75 HP - 1 ft/sec
Maximum submerged depth	656 feet / 200 metres
Mounting	Vertical

10"	Motor construction
	Standard & Premium stainless steel
Frequency	60 Hz
Motor ratings	3 phase - 40 to 150 HP
Voltage (Tolerance +10% / -15%)	460 V
Pole/RPM	4 Pole / 1740 RPM
Degree of protection	IP 68
Duty rating	Continuous
Ambient temperature	104 °F / 40 °C
Rotation	3 phase, CCW & CW
Maximum nos. of starts/hour	40 - 150 HP - 20
Minimum cooling flow along the motor	150 HP - 1.6 ft/sec
Maximum submerged depth	656 feet / 200 metres
Mounting	Vertical

12"	Motor construction
	Standard & Premium stainless steel
Frequency	60 Hz
Motor ratings	3 phase, 100 to 200 HP
Voltage (Tolerance +10% / -15%)	460 V
Pole/RPM	4 Pole / 1740 RPM
Degree of protection	IP 68
Duty rating	Continuous
Ambient temperature	104 °F / 40 °C
Rotation	3 phase, CCW & CW
Maximum nos. of starts/hour	100 - 150 HP - 20 175 to 200 HP - 15
Minimum cooling flow along the motor	100 to 200 HP - 1.6 ft/sec
Maximum submerged depth	656 feet / 200 metres
Mounting	Vertical

Note: Specifications are subject to periodic changes due to continuous improvements.

SUBMERSIBLE MOTOR STARTER CONTROL PANEL

NMS SERIES

TECHNICAL SPECIFICATIONS



► **Enclosure :** The control panel is housed in a standard NEMA Type 3R enclosure, designed for wall mounting and resistant to drips. Equipped with a bottom entry gland plate and a key lock handle, it ensures secure protection.

Optionally, upon customer request, an enclosure with enhanced IP protection can be provided.

► **Disconnect Switch :** Featuring a door-mounted rotary operating handle type dis-connector switch, this allows for safe and secure disconnection. The switch can be padlocked in the "OFF" position to prevent unauthorized access during installation or maintenance.

► **Protection :** The control panel incorporates following protections ensuring comprehensive safeguarding against various electrical faults.

- Definite / Inverse time protection (class 5-30).
- Overcurrent Protection.
- Undercurrent Protection.
- Locked Rotor / Stall Protection.
- Phase Fail / Phase Unbalance Protection.
- Reverse Phase Protection.
- Ground Fault Protection
- Short Circuit Protection.

► **Starting Method :** The Direct-On-Line (DOL) starting method, the panel offers both Automatic and Manual modes for convenient operation.

► **HOA Selector Switch :** Users can seamlessly switch between Manual and Automatic operation modes using the selector switch. Additionally, Automatic or Manual reset functions are provided for enhanced user flexibility.

► **Display :** A 4-digit 7-segment display allows for convenient parameter setting and viewing, with password protection ensuring security. An optional Front Panel Mount Assembly is available on request.

► **Fault Logging :** The panel can store up to 5 fault events, facilitating easy management of fault history.

► **Easy Access Terminals :** Dedicated panel terminals enable easy access to input and output terminals for power and control connections.

► **Certifications :** The control panel is equipped with UL 489 Approved circuit breaker disconnector for branch and short circuit protection, along with UL 508 Approved contactor, ensuring compliance with safety standards.

Short circuit current rating : 35 kA at 460V AC.

ENVIRONMENTAL

► Ambient Operating Temperature : -10 to 55°C (14 to 130°F).

► Ambient Storage Temperature : -20 to 70°C(-4 to 158°F).

► Relative Humidity : 95%, Non-condensing.

OPTIONAL FEATURES

► RS485 communication or 4~20 mA Analog Output for enhanced connectivity.

► Optional Relay for Remote Alarm Contact.

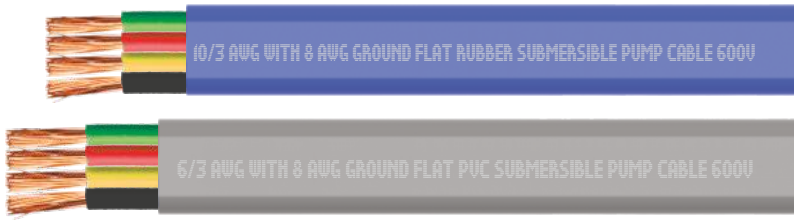
► Optional Ground Fault Detection using Zero Current Sensing.

This comprehensive range of features ensures reliable performance, ease of operation, and robust protection for submersible pump systems, making the Northam Motor Starter Control Panel an ideal choice for various Agriculture and Municipal applications.

FLAT JACKETED SUBMERSIBLE PUMP CABLE

FEATURES

- Operating temperature range
  PVC : -95°F (-35°C) to 167°F (75°C)
  RUBBER : -149°F (-65°C) to 239°F (115°C)
- The insulation used on cables is abrasion resistant.
- The cables can work submerged in water and is resistant to exposure to sunlight.
- Cables are marked sequentially for length and specification.
- The cables are available in standard packings as mentioned below.
  Special length or packaging can be provided on request.
- Outer sheath Color Grey for PVC cable.
- Outer sheath Color Blue for Rubber cable.



APPLICATIONS

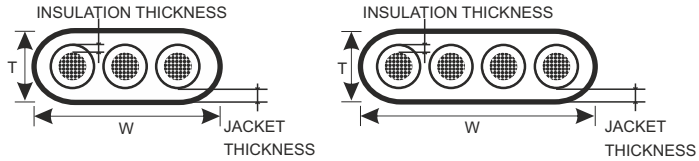
- Northam submersible cables are designed and manufactured for wiring of ground water submersible pumps.

STANDARD LENGTH CABLE PACKING

- 250 Feet in coil, 500 and 1000 Feet in wooden reel.

TECHNICAL SPECIFICATIONS

- Cables are manufactured using bare stranded and annealed electrical grade copper conductors and are rated at 600 Volts. They are insulated with a specially compounded PVC / Rubber insulation material.



3 CORE CABLE DIMENSIONS CHART

AWG	Stranding Nos / in	Insulation Thickness	Jacket Thickness	W	T	Part Number PVC	Part Number RUBBER
14/2 with Ground	41/0.010	0.045	0.045	0.596	0.258	NCF-P-3-14-0250-C	NCF-R-3-14-0250-C
						NCF-P-3-14-0500-R	NCF-R-3-14-0500-R
						NCF-P-3-14-1000-R	NCF-R-3-14-1000-R
12/2 with Ground	65/0.010	0.045	0.045	0.667	0.282	NCF-P-3-12-0250-C	NCF-R-3-12-0250-C
						NCF-P-3-12-0500-R	NCF-R-3-12-0500-R
						NCF-P-3-12-1000-R	NCF-R-3-12-1000-R
10/2 with Ground	105/0.010	0.045	0.045	0.737	0.305	NCF-P-3-10-0250-C	NCF-R-3-10-0250-C
						NCF-P-3-10-0500-R	NCF-R-3-10-0500-R
						NCF-P-3-10-1000-R	NCF-R-3-10-1000-R

Note : Two conductor cable: Black, White and Green as ground. All Dimensions are in Inches.

4 CORE CABLE DIMENSIONS CHART

AWG	Stranding Nos / in	Insulation Thickness	Jacket Thickness	W	T	Part Number PVC	Part Number Rubber
14/3 with Ground	41/0.010	0.045	0.045	0.764	0.258	NCF-P-4-14-0250-C	NCF-R-4-14-0250-C
						NCF-P-4-14-0500-R	NCF-R-4-14-0500-R
						NCF-P-4-14-1000-R	NCF-R-4-14-1000-R
12/3 with Ground	65/0.010	0.045	0.045	0.859	0.282	NCF-P-4-12-0250-C	NCF-R-4-12-0250-C
						NCF-P-4-12-0500-R	NCF-R-4-12-0500-R
						NCF-P-4-12-1000-R	NCF-R-4-12-1000-R
10/3 with Ground	105/0.010	0.045	0.045	0.953	0.305	NCF-P-4-10-0250-C	NCF-R-4-10-0250-C
						NCF-P-4-10-0500-R	NCF-R-4-10-0500-R
						NCF-P-4-10-1000-R	NCF-R-4-10-1000-R
8/3 with #10 Ground	168/0.010 (8 ga) 105/0.010 (10 ga)	0.060	0.050	1.219	0.401	NCF-P-4-8-0250-R	NCF-R-4-8-0250-R
						NCF-P-4-8-0500-R	NCF-R-4-8-0500-R
6/3 with # 8 Ground	266/0.010 (6 ga) 168/0.010 (8 ga)	0.060	0.050	1.422	0.440	NCF-P-4-6-0250-R	NCF-R-4-6-0250-R
						NCF-P-4-6-0500-R	NCF-R-4-6-0500-R
4/3 with # 8 Ground	420/0.010 (4 ga) 168/0.010 (8 ga)	0.060	0.050	1.635	0.511	NCF-P-4-4-0250-R	NCF-R-4-4-0250-R
						NCF-P-4-4-0500-R	NCF-R-4-4-0500-R
2/3 with # 6 Ground	665/0.010 (2 ga) 266/0.010 (6 ga)	0.060	0.065	1.857	0.572	NCF-P-4-2-0250-R	NCF-R-4-2-0250-R
						NCF-P-4-2-0500-R	NCF-R-4-2-0500-R
1/3 with # 6 Ground	1045/0.010 (1 ga) 266/0.010 (6 ga)	0.079	0.059	2.157	0.685	NCF-P-4-1-0250-R	NCF-R-4-1-0250-R
						NCF-P-4-1-0500-R	NCF-R-4-1-0500-R

Note : Three conductor cable: Black, Yellow, Red and Green as ground. All Dimensions are in Inches.

FEATURES

- ► Compact design due to inbuilt motor adapter.
- ► Back pullout design allows disassembly of pump for service without disturbing piping during servicing.
- ► Corrosion resistant, engineered plastic tubing and fittings are easily repairable.
- ► Thermoplastic impeller, diffuser and tube fittings are made from abrasion resistant composite material. Stainless steel wear ring is provided in diffuser for extended performance in abrasive conditions.
- ► Cast iron casing has tapped openings for vacuum gauge and casing drain.
- ► Mechanical Seal with Carbon/Ceramic faces, BUNA-N elastomer and 300 series stainless steel metal parts.
- ► Pump design prevents the seal from running dry.

SPECIFICATIONS

Pump :

- ► Suction : 1-1/4" NPT.
- ► Discharge : 1" NPT.
- ► Pressure switch : Factory preset at 30-50 psi.

Motor :

- ► NEMA standard.
- ► 1/2 to 1-1/2 HP, 115/230 V.
- ► 60 Hz, 1 phase, ODP, 3450 rpm.
- ► Built-in overload protector with automatic reset.
- ► Stainless steel shaft.
- ► Rotation : clockwise when viewed from motor end.
- ► Maximum water temperature : 158°F.

APPLICATION

- ► Cottages
- ► Booster service
- ► Homes

OPERATING RANGE & CONDITIONS

Ratings	0.5 - 1.5 HP
Liquid temperature	+32 °F to +158 °F
Max. amb temprature	104°F

Model	HP	Total suction lift ft	Discharge pressure PSI					Max shut off PSI
			20	30	40	50	60	
NJS5	1/2	5	17.5	16.5	10.2	5.0	-	63
		10	15.7	14.4	9.2	4.3	-	61
		15	13.7	12.5	8.0	3.6	-	59
		20	11.5	10.4	7.1	2.3	-	57
		25	8.7	18.6	6.2	1.3	-	54
NJS5H	1/2	5	11.5	11.3	11.0	7.7	4.8	83
		10	10.3	10.0	9.6	7.0	4.2	81
		15	8.8	8.6	8.3	6.3	3.7	79
		20	7.0	7.0	6.8	5.8	3.2	76
		25	5.3	5.3	5.2	5.0	2.8	73
NJS7	3/4	5	-	21.3	18.3	12.5	6.6	70
		10	-	18.8	17.3	11.3	5.0	68
		15	-	16.4	15.5	9.6	3.7	66
		20	-	13.6	13.2	8.3	2.0	63
		25	-	10.0	9.9	6.4	1.0	59
NJS10	1	5	-	24.8	24.4	16.6	9.9	74
		10	-	22.9	22.2	15.8	8.6	72
		15	-	19.8	19.5	13.8	6.9	70
		20	-	16.6	16.6	12.2	5.6	67
		25	-	12.5	12.4	10.4	3.6	65
NJS15	1-1/2	5	-	26.6	26.3	25.0	15.6	80
		10	-	24.7	24.3	22.6	13.9	77
		15	-	21.6	21.5	20.4	12.9	75
		20	-	18.1	18.0	17.6	12.0	73
		25	-	14.0	14.0	14.0	10.1	71

Note : All flow are in GPM



FEATURES

- ► Multistage centrifugal pump hydraulic design.
- ► Bowl Casing of Stainless Steel 304
- ► Impellers and Diffusers of Glass Reinforced Engineering Composite material.
- ► Impellers have no neck rings and are of floating design for continuous stable performance through the service life of the pump.
- ► Pump assembly enclosed by Stainless Steel 304 jacket for leak free and corrosion resistant service life.
- ► Available with Cast Iron suction and discharge head as standard construction. Also available with Stainless steel CF8 as optional.
- ► The simple pump construction allows for easy repair and maintenance.
- ► Pumps offer quiet and vibration free operation.
- ► Motors are suitable for single and three phase power supply in ODP construction. They are UL recognised for safety.

SPECIFICATIONS

Pump end :

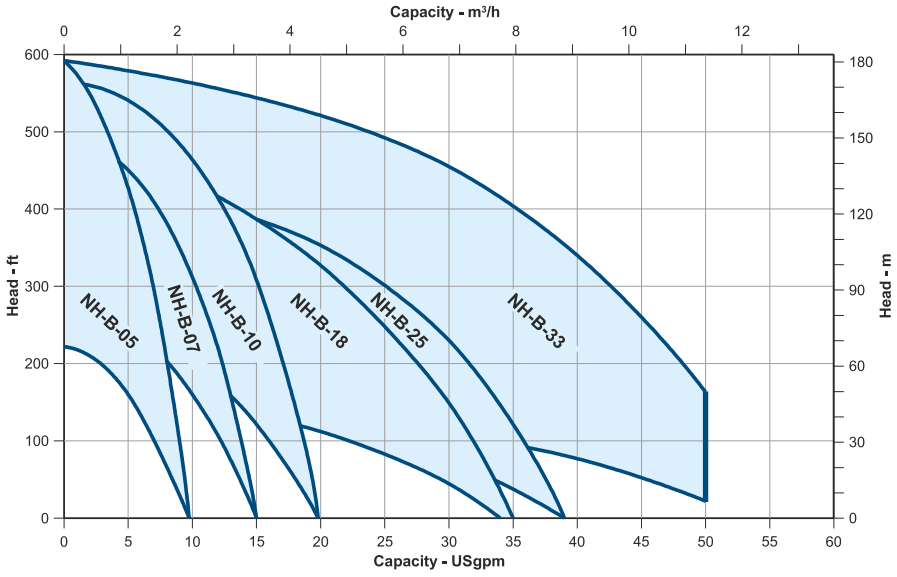
- ► Maximum allowable inlet suction side pressure: 80 PSI
- ► Liquid Temperature Range: 45 to 150 degree F
- ► Direction of Rotation: Anticlockwise when viewed from motor rear end.
- ► The pump is non self priming and foot valve is required for negative suction application.

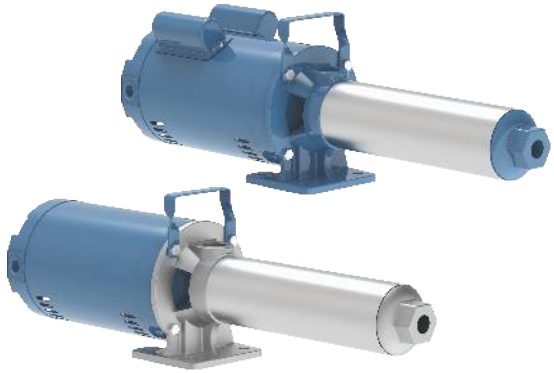
Motor end :

- ► Motors are of Open Drip proof (ODP) fan ventilated construction
- ► Motors are suitable for 60 Hz, 115/230 v single phase or 230/460 v three phase power supply.
- ► Motors are UL recognised. Single phase motors have a built in with Auto reset thermal protector.
- ► TEFC motors are available on request.

APPLICATION

- ► As a pressure booster pump for water supply application in residential, commercial and industrial applications.
- ► Pressurised washing in residential, commercial and agriculture.
- ► As a high pressure pump in Reverse Osmosis or filtration treatment for Water.
- ► Industrial Mist and Spray cooling Systems.
- ► Industrial cooling water circulation.





Model Name	Rated Flow	Model Name	Rated Flow
NH-B-05	5 GPM	NH-B-18	18 GPM
NH-B-07	7 GPM	NH-B-25	25 GPM
NH-B-10	10 GPM	NH-B-33	33 GPM

SELF-PRIMING
LAWN SPRINKLER PUMP

NG SERIES

FEATURES

- Once primed initially, it will prime again when the water level rises above the end of the suction pipe due to self priming design.
- Back pullout design allows disassembly of pump for service without disturbing piping during servicing.
- impeller, diffuser are made from abrasion resistant composite material.
- Stainless steel wear ring is provided in diffuser for extended performance in abrasive conditions.
- Cast iron casing has tapped openings for vacuum gauge and casing drain.
- Pump is Powered for Continuous Operation & Can be operated continuously without damage.
- Mechanical Seal with Carbon/Ceramic faces, BUNA-N elastomer and 300 series stainless steel metal parts.

SPECIFICATIONS

Pump :

- Inlet: 1-1/2" NPT suction,
- Outlet:1-1/2" NPT discharge
- Discharge: up to 73 GPM at 5 feet suction lift.
- Heads: up to 119 feet.
- Reprime capabilities: up to 25 feet suction lift.
- Maximum working pressure: 125 PSI.
- Maximum water temperature: 140° F (60°C).
- Clockwise rotation when viewed from motor end.

Motor :

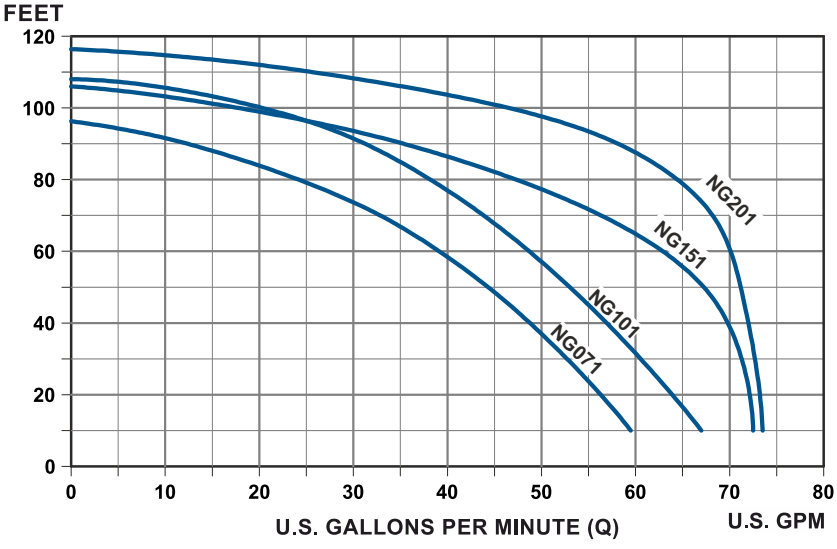
- NEMA 56J frame open drip proof.
- 60 Hz, 3450 RPM. 1 - Phase.
- Stainless steel shaft.
- Voltage Range 115/230 for 1 - Phase. Built-in overload protector with automatic reset.
- All models in ODP motor.
- TEFC motor models are available as optional.

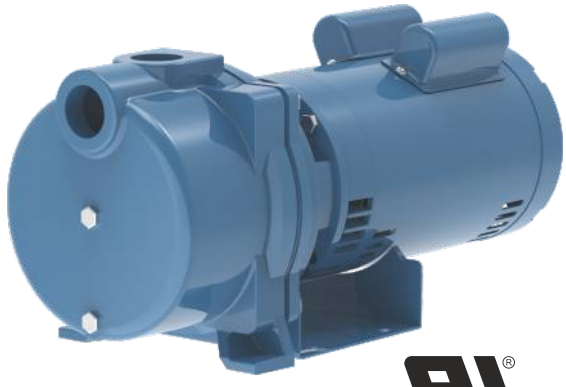
APPLICATION

- Irrigation
- Heat pumps
- Lawn sprinkling
- Air conditioning systems
- Water transfer
- Dewatering

OPERATING RANGE & CONDITIONS

Ratings	3/4 - 2.0 HP
Liquid temperature	+32 °F to +140 °F
Max. amb temprature	104°F





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Product Improvement and changes are a continuous process at 'Northam'. The data given in this publication is therefore subject to revision.