

## Commercial and Industrial Pumps





Northam is a professional manufacturer of Centrifugal and Submersible pumps for Residential, Irrigation, 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.



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# CERTIFICATIONS



## Certificate of Compliance

**Issued to:**  
**NORTHAM INC.**  
**995/C Griffin Pond Road**  
**Clarks Summit, PA, 18411, United States**

**Certificate Number:**  
EX29397

**Report Reference:**  
EX29397-20240809

**Issue Date:**  
2024-AUGUST-09

This certificate confirms that representative samples of:  
**FIRE PUMP MOTORS**  
 See Addendum Page for Models.

Has been evaluated by UL LLC in accordance with Standard(s) for Safety:  
**UL 1004-1 – Rotating Electrical Machines - General Requirements**  
**UL 1004-5 – Fire Pump Motors**

**Additional Information:**  
 See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

  
 David Plecuch  
 UL Mark Certification Program Owner

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at [ULSolutions@ul.com](mailto:ULSolutions@ul.com).

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 Form-ULC-DS-9-4-9-C - ver 1.0



## Certificate of Compliance

This certificate is issued for the following:

**Centrifugal Fire Pumps**  
**Horizontal Split-Case Type (Horizontal Mounted)**  
**Horizontal End Suction Type**

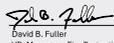
See attached listed models on second page

**Prepared for:**  
 Northam Inc  
 995/C, Griffin Pond Road  
 Clarks Summit,  
 Pennsylvania 18411  
 United States

Approval Standard: FM 1311 (August 2023), FM 1319 (August 2023)  
 Approval Identification: PR473968 Approval Granted: 30 October 2025

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

  
 David B. Fuller  
 VP, Manager - Fire Protection  
 FM Approvals  
 One Technology Way  
 Norwood, MA 02062




Page 1 of 2

## IAPMO RESEARCH AND TESTING, INC.

5001 E. Philadelphia Street, Ontario, CA 91761-2816 • (909) 472-4100 • Fax (909) 472-4244 • [www.iapmort.org](http://www.iapmort.org)





### CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body in which its product certification system includes inspection and testing of samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and/or warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Issued to:  
**NORTHAM INC**  
 2915 OGELTOWN ROAD, #4109  
 NEWARK, DE 19713

Product:  
**Drinking Water System Components - Health Effects**

Products are certified to the following standard(s):  
 NSF/ANSI/CAN 61-2022

**File Number:** WP-13811

**Effective Date:** March 2023

**Void After Date:** February 2028\*





\* This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at [pld.iapmo.org](http://pld.iapmo.org)

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing. This document shall be reproduced in its entirety.

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### LEAD FREE CERTIFICATE OF LISTING

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Issued to:  
**NORTHAM INC**  
 2915 OGELTOWN ROAD, #4109  
 NEWARK, DE 19713

Product:  
**Lead Free Water Filtration Product**

Products are certified to the following standard(s):  
 Section 1417(d) of the Safe Drinking Water Act The lead content requirements of Section 116875 of the California Health & Safety Code NSF/ANSI/CAN 372-2022

**File Number:** WP-14328

**Effective Date:** March 2023

**Void After Date:** February 2028\*





\* This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at [pld.iapmo.org](http://pld.iapmo.org)

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing. This document shall be reproduced in its entirety.



## FEATURES

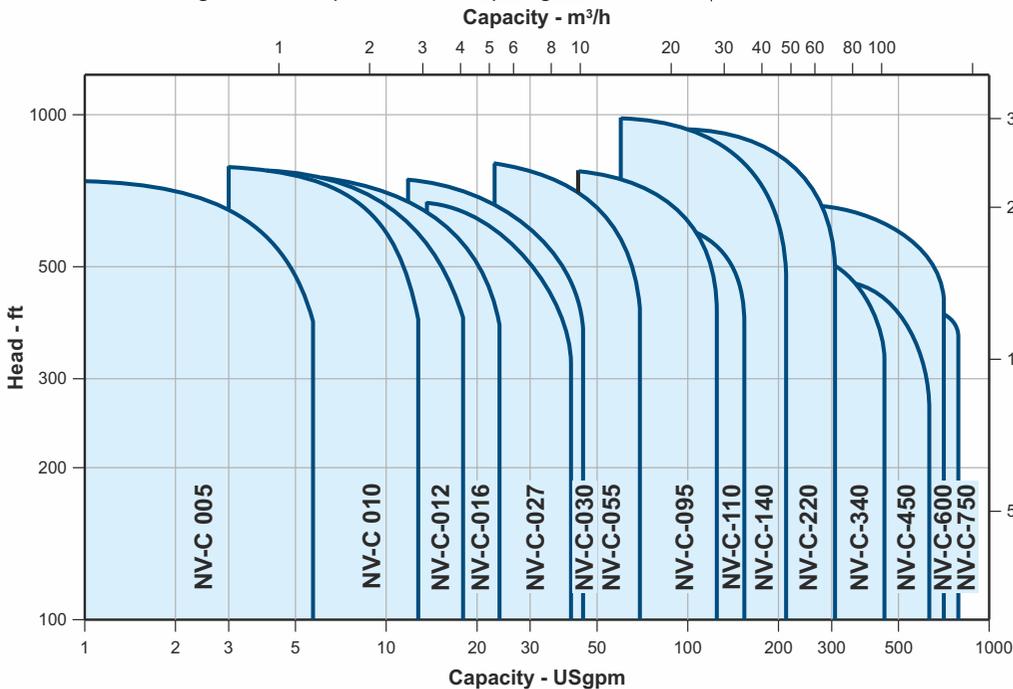
- ▶ The pumps can be coupled with NEMA or IEC standard motors suitable for Vertical application.
- ▶ The compact design with a very small foot print saves considerable floor space and inline connections makes the installation easy.
- ▶ The pump construction consists of a base and pump head. The multistage casing and impeller assembly is secured between the base and pump head by tiebolts.
- ▶ The diffuser casings and impellers which constitute the multistage pump assembly are fabricated from 304 stainless steel or 316 stainless steel as per requirement.
- ▶ The NV range of pumps are also available with Variable Frequency Drive (VFD) mounted on the motor for significant energy saving.

## OPERATING RANGE & CONDITIONS

Flow range	1.8 to 790 GPM
Head range	Up to 995 feet
Ambient temperature	Max. +104°F
Liquid temperature range	-22°F to +248°F

## APPLICATIONS

- ▶ **COMMERCIAL BUILDING SERVICES**
  - Pressure booster pumping system for high rise buildings
  - Jockey pump for fire sprinkler systems
  - Heating, Ventilation and Air-conditioning (HVAC)
- ▶ **WATER SUPPLY**
  - Filtration and transfer pumps for water treatment plants
  - Garden and golf course sprinkler and drip Irrigation
- ▶ **INDUSTRY**
  - High pressure pump for Reverse Osmosis and Ultra-filtration in water purification plants
  - Boiler feed pump
  - Vehicle & industrial parts washing systems
  - Coolant pump for machine tools
  - Pressure boosting systems



## FEATURES

Following are the main features and benefits offered by the NMC pumps.

- ▶ Compact design
- ▶ Reliable and robust construction
- ▶ Energy-optimised pumps
- ▶ Easy and simple installation
- ▶ User-friendly operation
- ▶ Low noise level
- ▶ Reliable water supply.
- ▶ Available for 115/230V 1 Phase & 3 Phase 230/460V, 60Hz Power Supply.

## APPLICATIONS

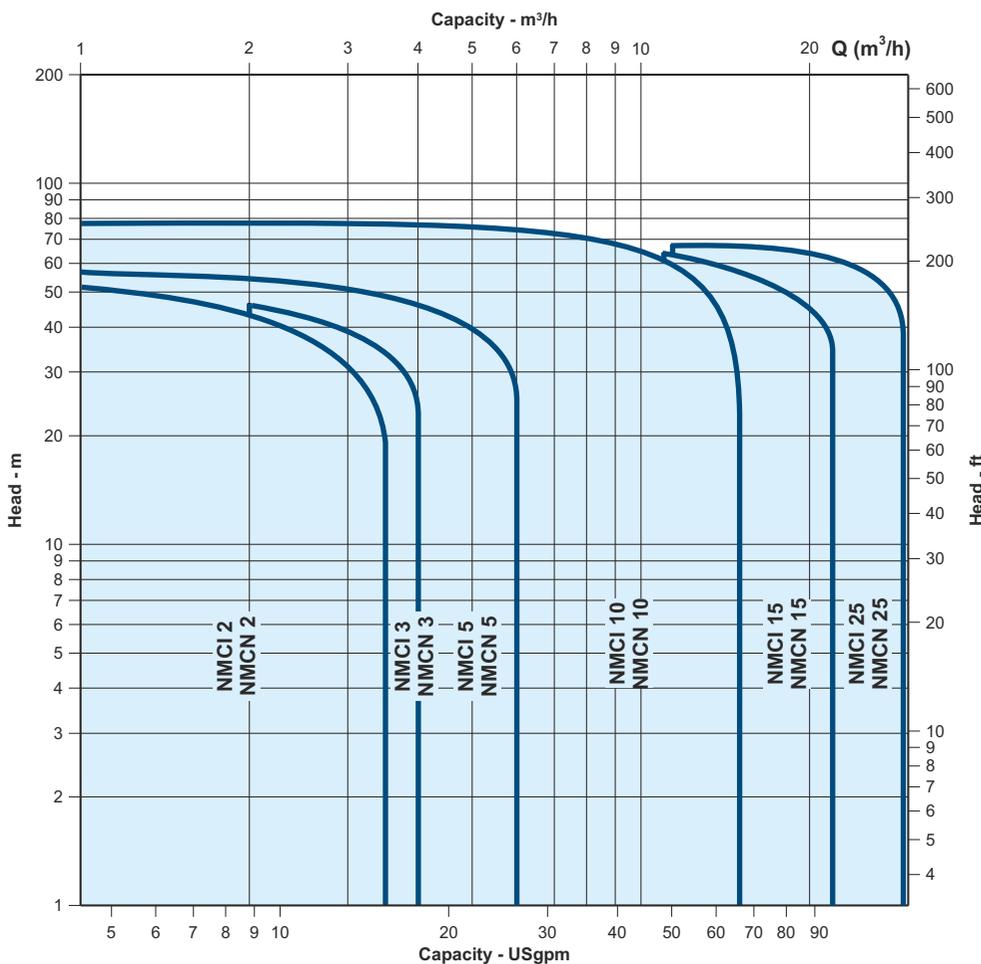
The NMC pumps are designed for small commercial and industrial water supply systems.

- ▶ Liquid transfer and circulation of liquids within light industry and farming.
- ▶ Pressure boosting in single-pump and multi-pump booster systems.
- ▶ Commercial water supply.
- ▶ Cooling systems.
- ▶ Air-conditioning systems.
- ▶ Washing and cleaning systems.
- ▶ Water treatment.

NMC SERIES

## OPERATING CONDITIONS

- ▶ Flow range : Up to 95 USgpm
- ▶ Head range : Up to 262 feet
- ▶ Ambient temperature : Max. +55°F
- ▶ Liquid temperature range : 0°F to +90°F



## 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 :

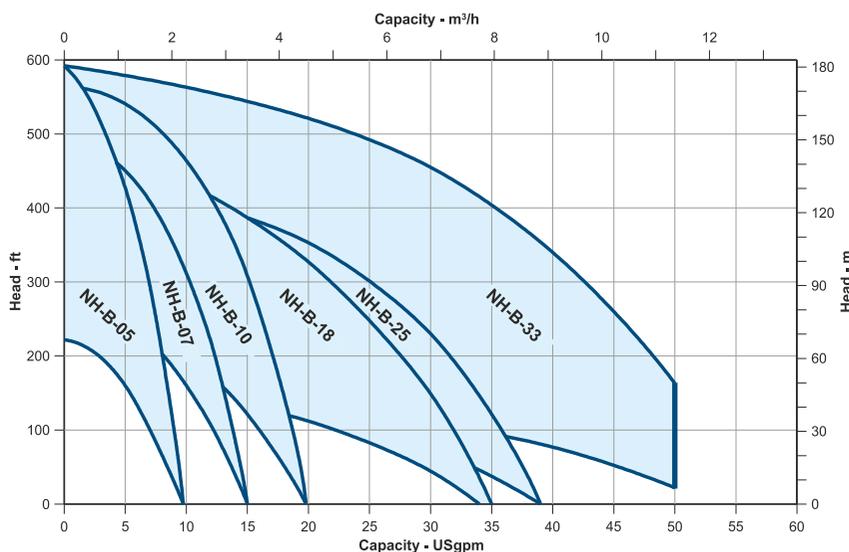
- ▶ Maximum allowable inlet suction side pressure: 80 PSI
- ▶ Liquid Temperature Range: 45 to 150 degree F
- ▶ The pump is non self priming and foot valve is required for negative suction application.

### 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.



## FEATURES

- ▶ Pumps can be supplied as **bare shaft pump** or **electric motor coupled pump** completely mounted on a fabricated steel base frame, with flanges, coupling & coupling guard.
  - ▶ Available with **wide range** of material of construction for a large number of applications.
  - ▶ **Interchangeable components** across the entire range of models for easier spare parts management.
  - ▶ **Robust bearing housing** with bearings selected to withstand radial & axial thrust load and thus give longer service life.
  - ▶ **Optional wear ring** is available in bronze and stainless steel to reduce wear and ease of maintenance.
  - ▶ The pumps are highly efficient and have been optimized for **low life cycle costs** to reduce the total cost of ownership.
  - ▶ Northam pump **selection tool** makes pump selection, submittals and techno-commercial offers to be prepared accurately & swiftly.
  - ▶ We provide **excellent pre and post sales experience**.
- ▶ **Back pull-out design** simplifies inspection & maintenance. Motor, bearing bracket & impeller can be removed for servicing without disturbing the pump casing and the suction & discharge pipelines.
  - ▶ Available with **gland packing** as well as **mechanical shaft seal** (For F and G material of construction pumps gland packing is not available).
  - ▶ Rotating parts are **dynamically balanced** which ensure vibration free performance and enhanced bearing life.
  - ▶ Suction & Discharge port flanges shall be ANSI 125 or ANSI 250 as per **ASME B16.1**. Flanges as per DIN standard **EN 1092-2** (PN 16 or PN 25) are available on request.
  - ▶ Each pump is **Hydrostatic and Performance tested** at factory before dispatch.
  - ▶ **Gauge taps** on the suction and discharge flanges provide enhanced insight into the performance of your pumps.

NE-L SERIES

## OPERATING RANGE & CONDITIONS

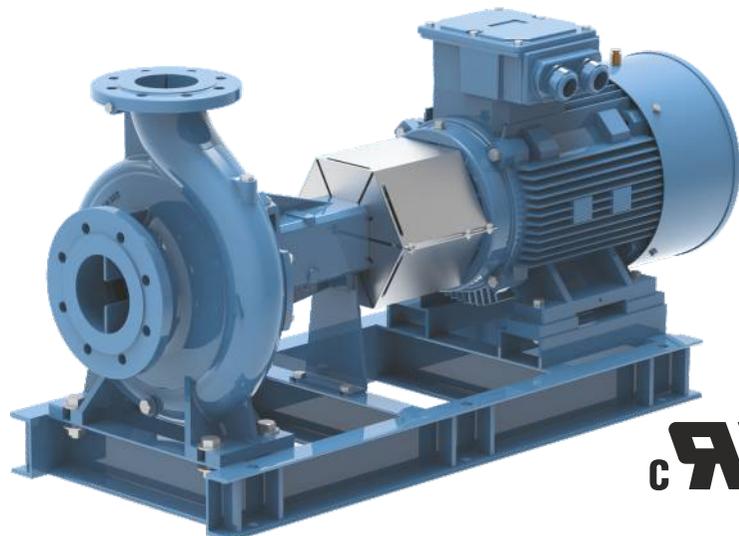
Flow range	35 to 3350 GPM
Head range	12 to 470 feet
Ambient temperature	Max. +140°F
Liquid temperature range	+32°F to +194°F (with Carbon/Ceramic/NBR/304 Stainless steel shaft seal) +32°F to +194°F (with Sic/Sic/Viton/316 Stainless steel shaft seal) +32°F to +284°F (with Carbon/Sic/Viton/316 Stainless steel shaft seal)

## MOTOR

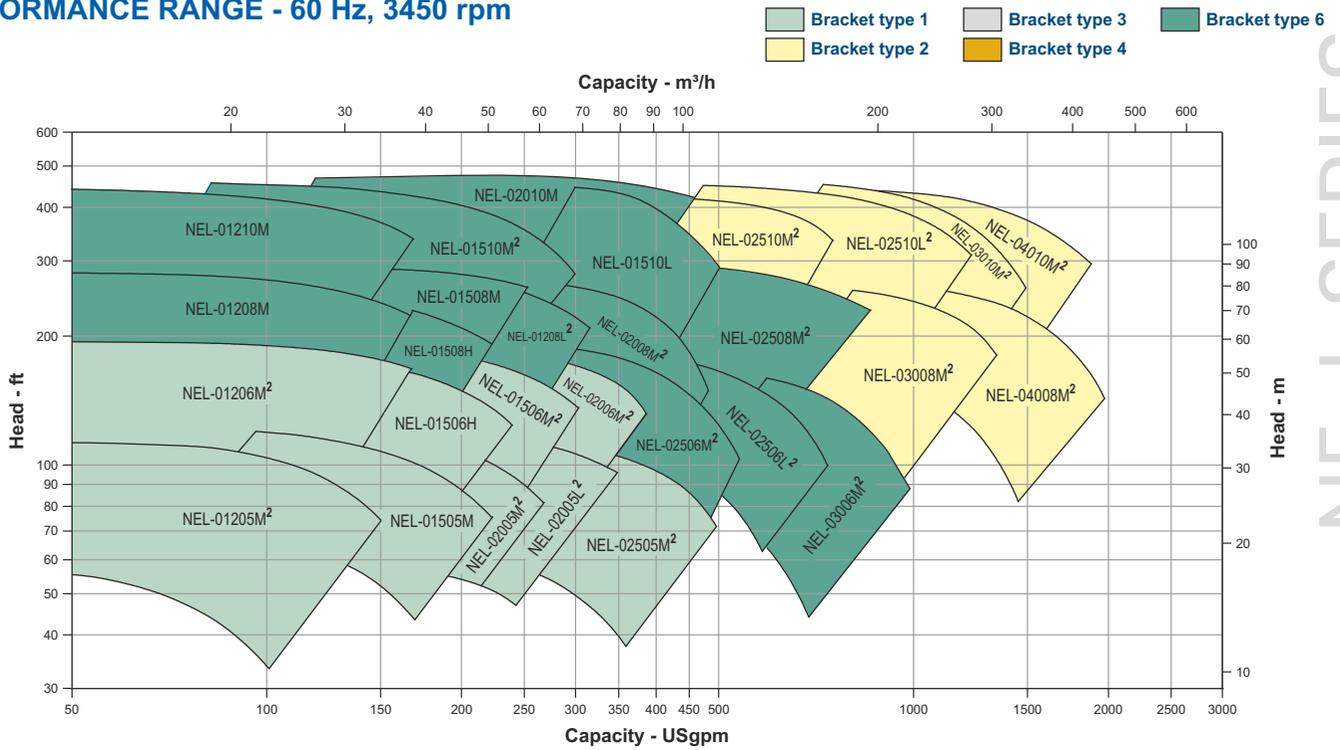
Motor type	NEMA Standard Premium Efficiency TEFC squirrel cage induction motor
Ratings	Up to 300 HP
Rated speed	3450, 1750 rpm
Enclosure class	IP 55
Insulation class	F
Nominal voltages (Tolerance ±10%)	230/460 Volts 3 phase as standard
Supply frequency	60 Hz
Duty / Rating	S1 / Continuous
Direction of rotation	Clockwise as seen from the motor rear end

## APPLICATIONS

- ▶ Water supply & Pressure boosting
- ▶ Heating, Ventilation and Air-conditioning (HVAC)
- ▶ Industrial washing & cleaning systems
- ▶ Irrigation systems
- ▶ Boiler feed and condensate transfer system

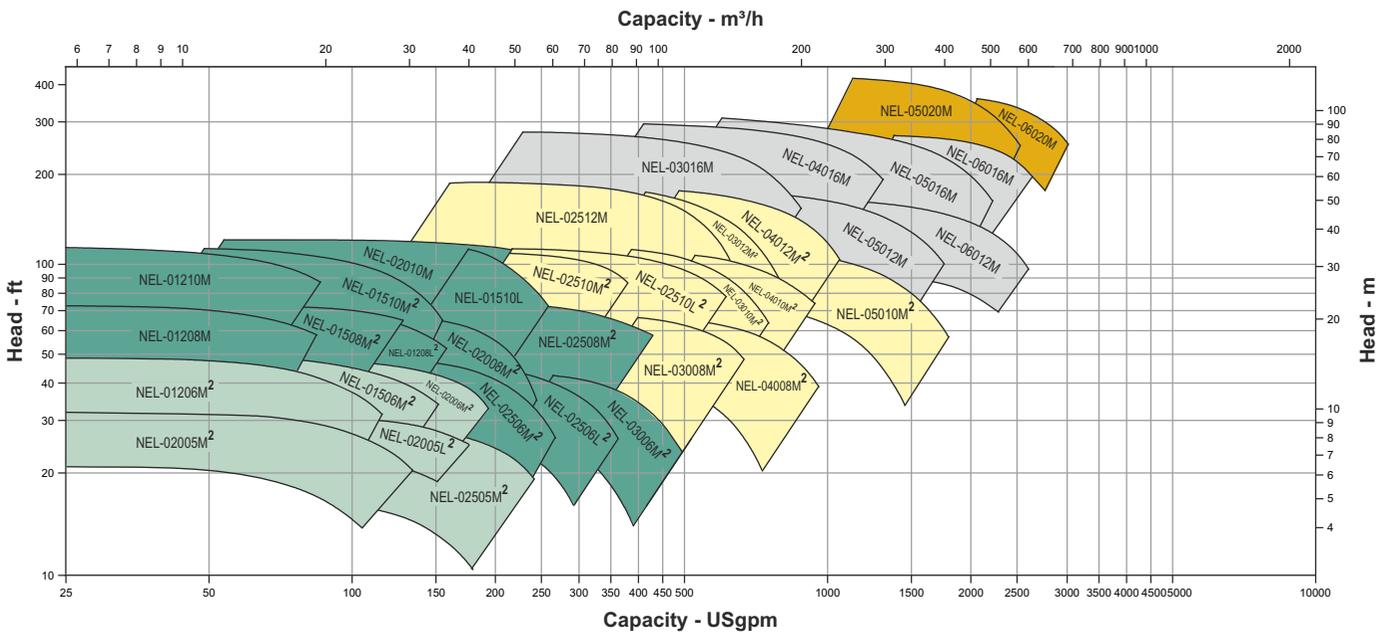


## PERFORMANCE RANGE - 60 Hz, 3450 rpm



NE-L SERIES

## PERFORMANCE RANGE - 60 Hz, 1750 rpm



<sup>2</sup> Code-C/F/G material of construction are available in these models only.

## FEATURES

- ▶ Available with **wide range** of material of construction for a large number of applications.
  - ▶ **Interchangeable components** across the entire range of models for easier spare parts management.
  - ▶ **Optional wear ring** is available in bronze and stainless steel to reduce wear and ease of maintenance.
  - ▶ The pumps are highly efficient and have been optimized for **low life cycle costs** to reduce the total cost of ownership.
  - ▶ Northam pump **selection tool** makes pump selection, submittals and techno-commercial offers to be prepared accurately & swiftly.
  - ▶ We provide **excellent pre and post sales experience**.
  - ▶ We provide **best-in-class delivery** times in the industry.
- ▶ Available with **mechanical shaft seal only**.
  - ▶ Rotating parts are **dynamically balanced** which ensure vibration free performance and enhanced bearing life.
  - ▶ Suction & Discharge port flanges shall be ANSI 125 or ANSI 250 as per **ASME B16.1**. Flanges as per DIN standard **EN 1092-2** (PN 16 or PN 25) are available on request.
  - ▶ High performance motor **minimize noise** produced by pumps during operation.
  - ▶ Each pump is **Hydrostatic and Performance tested** at factory before dispatch.
  - ▶ **Gauge taps** on the suction and discharge flanges provide enhanced insight into the performance of your pumps.

NE-C SERIES

## OPERATING RANGE & CONDITIONS

Flow range	35 to 2800 GPM
Head range	12 to 470 feet
Ambient temperature	Max. +140°F
Liquid temperature range	+32°F to +194°F (with Carbon/Ceramic/NBR/304 Stainless steel shaft seal) +32°F to +194°F (with Sic/Sic/Viton/316 Stainless steel shaft seal) +32°F to +284°F (with Carbon/Sic/Viton/316 Stainless steel shaft seal)

## MOTOR

Motor type	TEFC squirrel cage induction motor
Ratings	Up to 100 HP
Rated speed	3450, 1750 rpm
Enclosure class	IP 55
Insulation class	F
Nominal voltages (Tolerance ±10%)	230/460 Volts 3 phase as standard
Supply frequency	60 Hz
Duty / Rating	S1 / Continuous
Direction of rotation	Clockwise as seen from the motor rear end

## APPLICATIONS

- ▶ Water supply & Pressure boosting
- ▶ Heating, Ventilation and Air-conditioning (HVAC)
- ▶ Industrial washing & cleaning systems.
- ▶ Irrigation systems
- ▶ Boiler feed and condensate transfer system





# CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS



NE-S SERIES

## FEATURES

- ▶ **Interchangeable components** across the entire range of models for easier spare parts management.
- ▶ The pumps are highly efficient and have been optimized for **low life cycle costs** to reduce the total cost of ownership.
- ▶ Northam pump **selection tool** makes pump selection, submittals and techno-commercial offers to be prepared accurately & swiftly.
- ▶ We provide **excellent pre and post sales experience**.
- ▶ We provide **best-in-class delivery** times in the industry.
- ▶ Available with **mechanical shaft seal only**.
- ▶ Suction & Discharge port flanges shall be ANSI 125 as per **ASME B16.1**. Flanges as per DIN standard **EN 1092-2** (PN 16) is available on request.
- ▶ High performance motor **minimize noise** produced by pumps during operation.
- ▶ Each pump is **Hydrostatic and Performance tested** at factory before dispatch.

## OPERATING RANGE & CONDITIONS

Flow range	Up to 850 GPM
Head range	Up to 220 feet
Ambient temperature	Max. +104°F
Liquid temperature range	-32°F to +284°F
Maximum working pressure	145 psi (10 bar)
Altitude	Should be lower than 3300 feet (1000 metres) above sea level

## MOTOR

Motor type	NEMA frame Premium Efficiency TEFC squirrel cage induction motor
Ratings	Up to 50 HP
Rated speed	3450 rpm
Enclosure class	IP 55
Insulation class	F
Nominal voltages (Tolerance ±10%)	230/460 Volts, 3 phase as standard
Supply frequency	60 Hz
Duty / Rating	S1 / Continuous
Direction of rotation	Clockwise as seen from the motor rear end

## APPLICATIONS

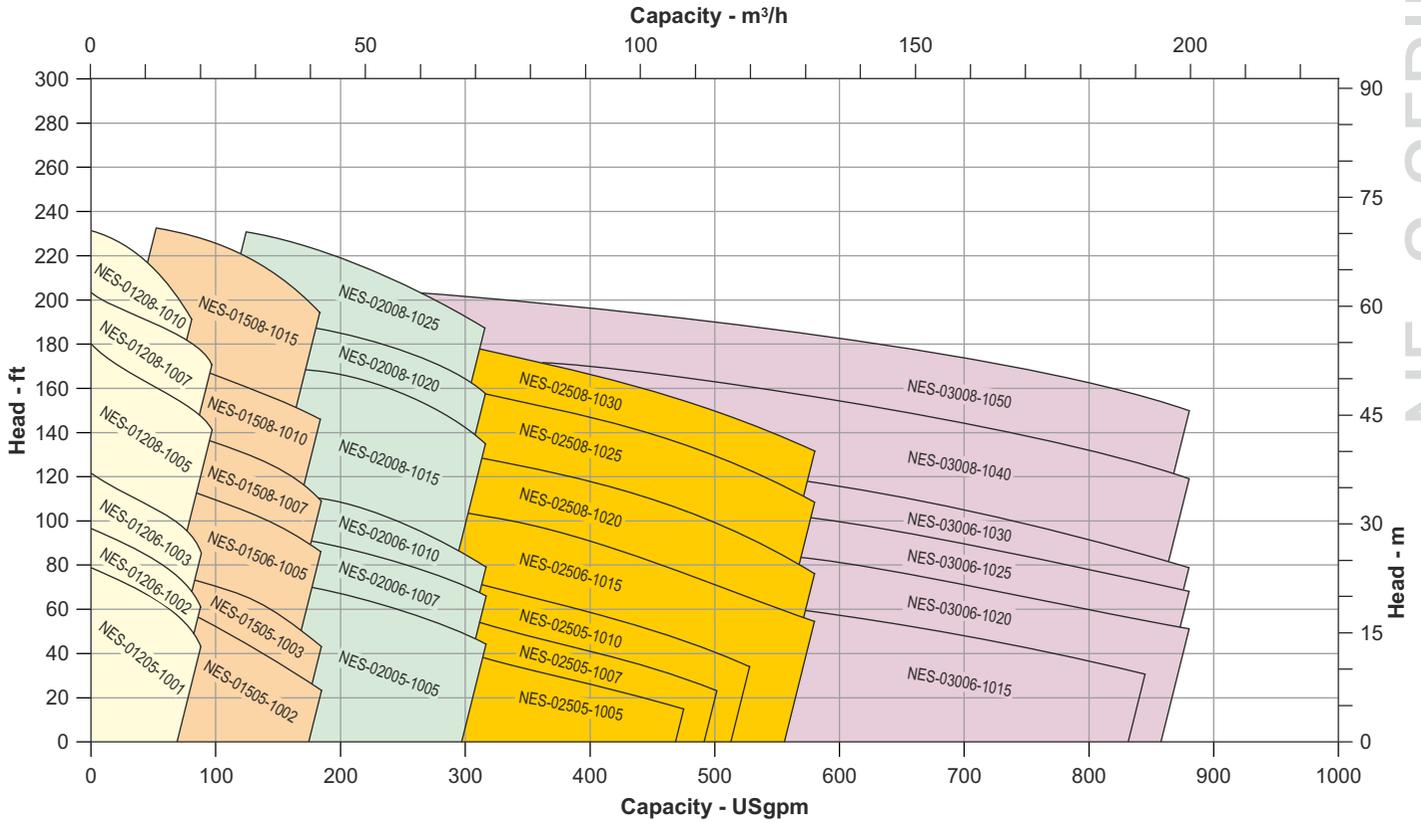
- ▶ Water supply
- ▶ Pressure boiler feeding
- ▶ Pure water treating systems
- ▶ Pharmaceutical and food stuff
- ▶ Refining chemical industries
- ▶ Industrial washing & cleaning systems



# CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS



PERFORMANCE RANGE - 60 Hz, 3450 rpm



NES-S SERIES

Model	HP	Model	HP	Model	HP	Model	HP	Model	HP
NES-01205-1001	1.5	NES-01505-1002	2	NES-02005-1005	5	NES-02505-1005	5	NES-03006-1015	15
NES-01206-1002	2	NES-01505-1003	3	NES-02006-1007	7.5	NES-02505-1007	7.5	NES-03006-1020	20
NES-01206-1003	3	NES-01506-1005	5	NES-02006-1010	10	NES-02505-1010	10	NES-03006-1025	25
NES-01208-1005	5	NES-01508-1007	7.5	NES-02008-1015	15	NES-02506-1015	15	NES-03006-1030	30
NES-01208-1007	7.5	NES-01508-1010	10	NES-02008-1020	20	NES-02508-1020	20	NES-03008-1040	40
NES-01208-1010	10	NES-01508-1015	15	NES-02008-1025	25	NES-02508-1025	25	NES-03008-1050	50
						NES-02508-1030	30		

# CLOSE COUPLED VERTICAL IN-LINE PUMPS



NL-C SERIES

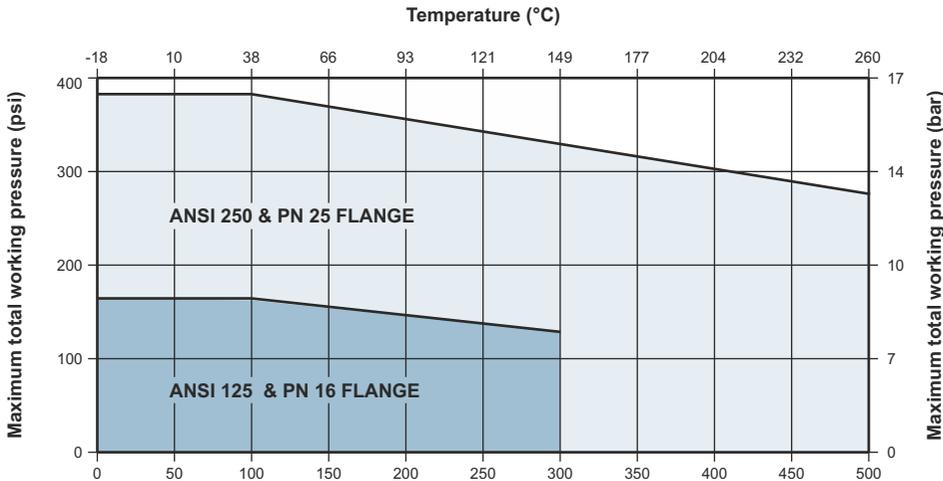
## FEATURES

- ▶ The close coupled pumps are provided with internal mechanical shaft seal which can be replaced without disturbing pump or pipe connections.
- ▶ Heavy and robust design motor adapter provides a rigid connection between the pump casing & motor flange.
- ▶ Generous venting of seal chamber & liquid flushing at seal faces is provided by gland plate flush connections.
- ▶ The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- ▶ Rigid volute casing with ribs integrally cast and provided with gauge, flush and drain connections.
- ▶ The pumps can be coupled with NEMA standard motors suitable for Vertical application.
- ▶ Flow straightening vanes in suction area of pump casing ensures superior performance and quiet operation.

## OPERATING RANGE & CONDITIONS

Flow range	Up to 3000 GPM
Head range	Up to 400 feet
Ambient temperature	Max. +140°F for Premium efficiency motors.

## PRESSURE vs TEMPERATURE RATINGS



## MOTOR

Temperature (°F)	
Motor type	NEMA standard induction motor
Ratings	Up to 50 HP
Rated speed	1750 or 3450 rpm
Enclosure class	IP 55
Insulation class	F
Nominal voltages	230/460 volts 3 phase
Supply frequency	60 Hz
Duty / Rating	S1 / Continuous
Direction of rotation	Clockwise as seen from the motor rear end

## APPLICATIONS

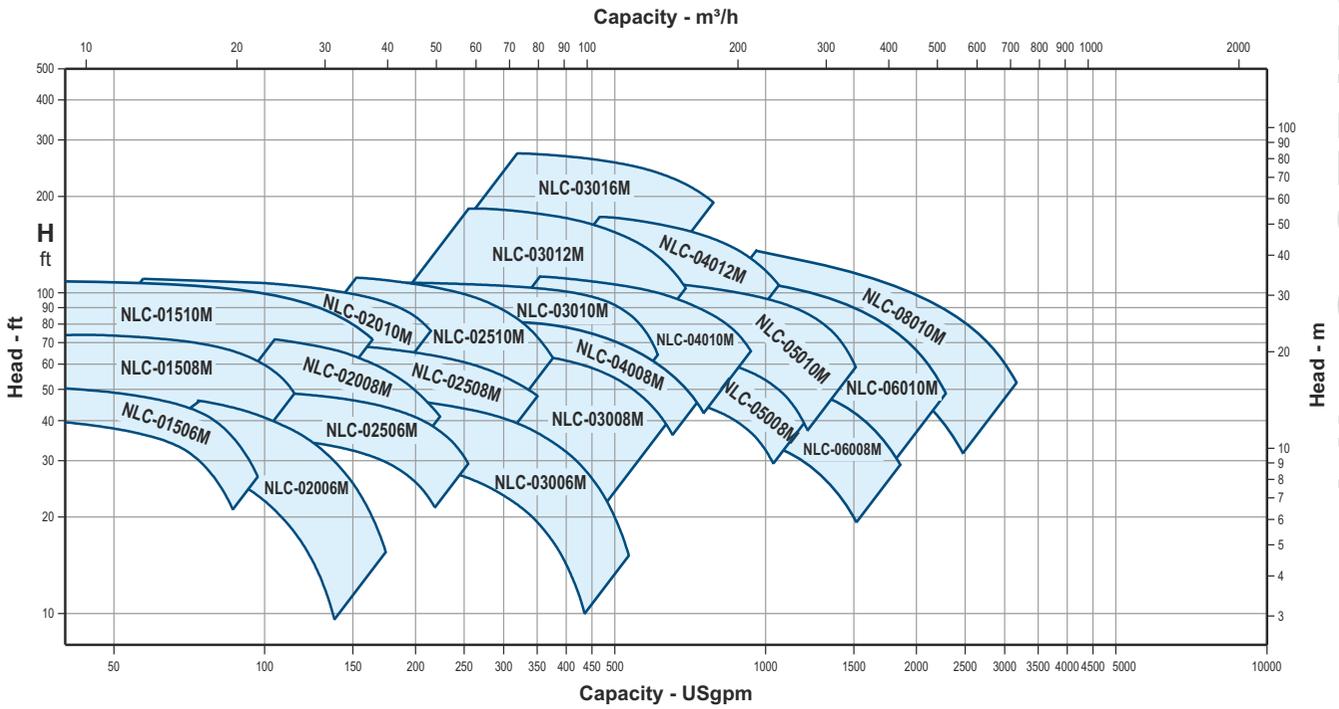
- ▶ Heating, Ventilation and Air-conditioning (HVAC)
- ▶ Pressure boosting
- ▶ Industrial applications
- ▶ Water supply
- ▶ Fire protection systems.



# CLOSE COUPLED VERTICAL IN-LINE PUMPS

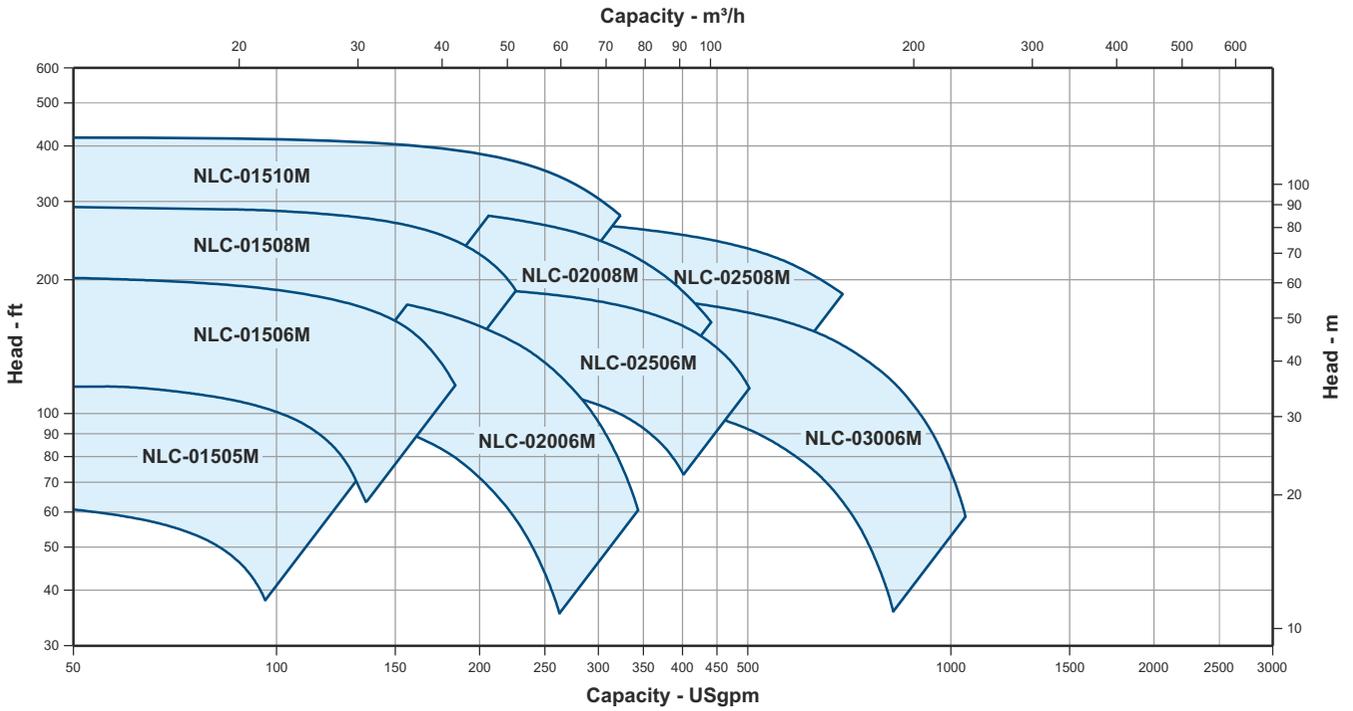


PERFORMANCE RANGE - 60 Hz, 1750 rpm



NLC-SERIES

PERFORMANCE RANGE - 60 Hz, 3450 rpm



# SPLIT COUPLED VERTICAL IN-LINE PUMPS



NL-S SERIES

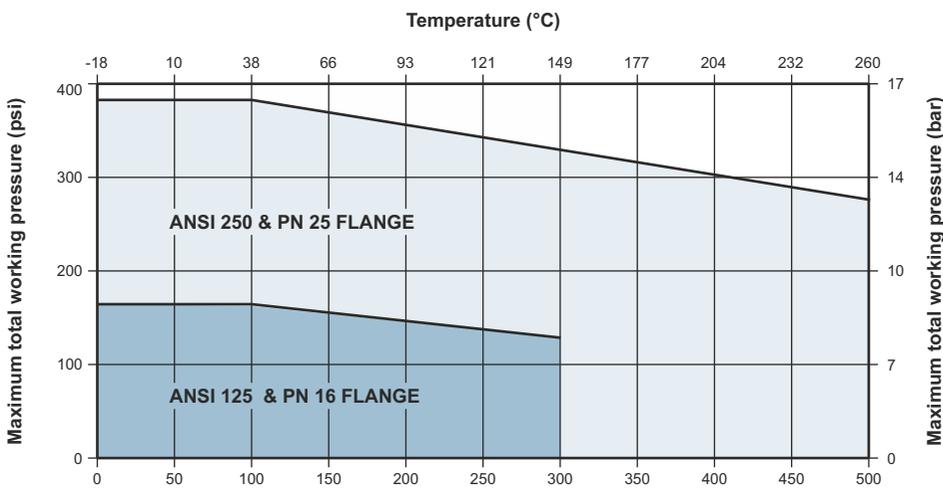
## FEATURES

- ▶ The axially split, spacer type rigid coupling allows for the mechanical shaft seal maintenance without disturbing pump or motor or pipe connections. The split coupling once removed allows for removal of the entire mechanical seal for servicing or replacement. Reassembly of the split coupling after servicing of mechanical seal ensures that shaft alignment between pump and motor shaft is restored as per required specifications.
- ▶ Heavy and robust design motor adapter provides a rigid connection between the pump casing & motor flange.
- ▶ Generous venting of seal chamber & liquid flushing at seal faces is provided by gland plate flush connections.
- ▶ The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- ▶ Rigid volute casing with ribs integrally cast and provided with gauge, flush and drain connections.
- ▶ The pumps can be coupled with NEMA or IEC standard motors suitable for Vertical application.
- ▶ Flow straightening vanes in suction area of pump casing ensures superior performance and quiet operation.

## OPERATING RANGE & CONDITIONS

Flow range	Up to 3000 GPM
Head range	Up to 400 feet
Ambient temperature	Max. +140°F for Premium efficiency motors.

## PRESSURE vs TEMPERATURE RATINGS



## MOTOR

	Temperature (°F)
Motor type	NEMA standard induction motor
Ratings	Up to 250 HP
Rated speed	1750 or 3450 rpm
Enclosure class	IP 55
Insulation class	F
Nominal voltages	230/460 volts 3 phase
Supply frequency	60 Hz
Duty / Rating	S1 / Continuous
Direction of rotation	Clockwise as seen from the motor rear end

## APPLICATIONS

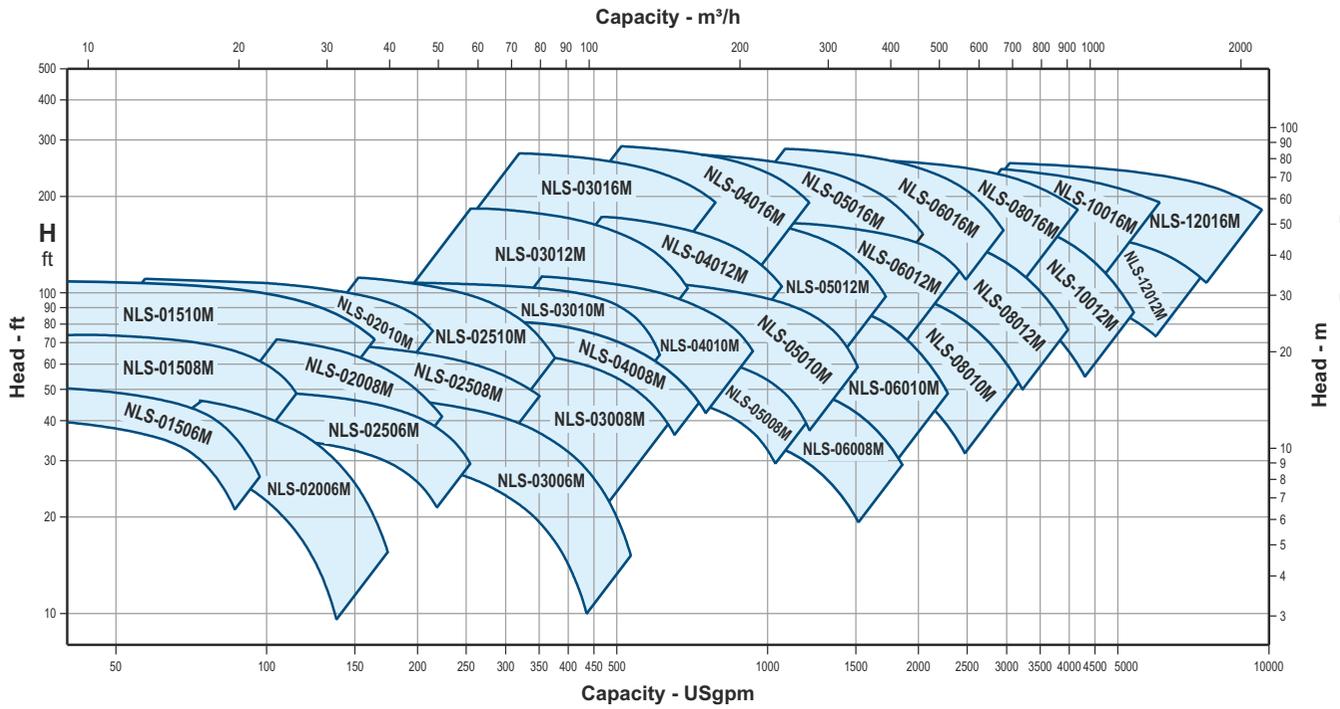
- ▶ Heating, Ventilation and Air-conditioning (HVAC)
- ▶ Pressure boosting
- ▶ Industrial applications
- ▶ Water supply
- ▶ Fire protection systems.



# SPLIT COUPLED VERTICAL IN-LINE PUMPS

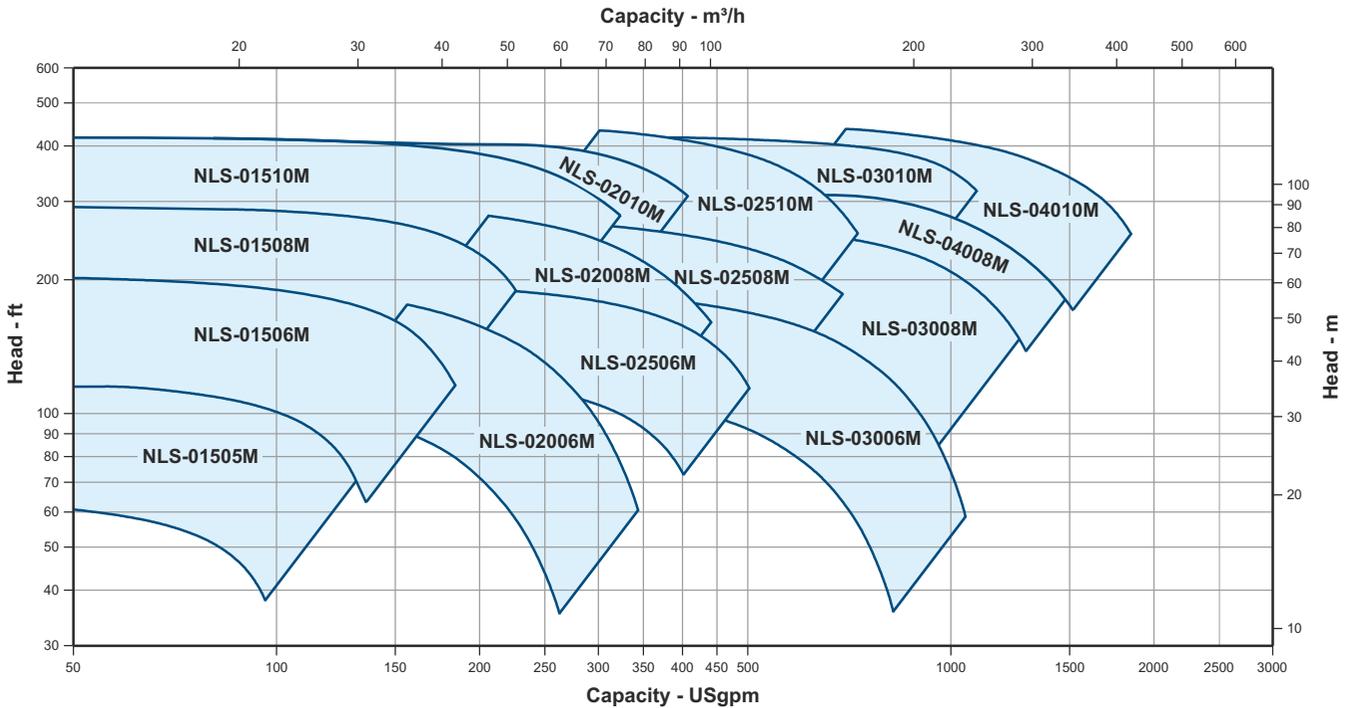


## PERFORMANCE RANGE - 60 Hz, 1750 rpm



NLS-SERIES

## PERFORMANCE RANGE - 60 Hz, 3450 rpm



The **NORTHAM** Suction Diffuser NG-D series is a device which directly mounts to the suction side of horizontal or vertical centrifugal pumps.

## FEATURES

- ▶ Available in ANSI 125 & ANSI 250 flange connections as per ASME B16.1. Flanges with PN 16 or PN 5 are also available as per DIN standard EN 1092-2.
- ▶ Available with equal or reduced outlet flanges.
- ▶ Cast on supporting pads for convenient mounting of standard I.D support foot.
- ▶ Drain/purge plug is used to drain the suction diffuser when required. It has an in-built magnet to trap small metallic particles.
- ▶ Available suction gauge port.
- ▶ 'O' ring seals body cover.
- ▶ Quick opening bolted body cover minimize down time while cleaning the strainer.

## APPLICATIONS

- ▶ HVAC system
- ▶ Water supply
- ▶ Pressure boosting systems
- ▶ Industrial applications

## TECHNICAL DATA

Connection size	2 inch to 14 inch
Pressure rating	125 psi and 250 psi (16 bar and 25 bar)



The **NORTHAM** NG-T series Triple Duty Valves save space and reduce purchase and installation costs by combining all the functions normally required on the discharge side of most HVAC systems into one convenient design. It features a calibrated balance valve, non-slam check valve, and positive shut-off valve, all combined into one.

The calibrations on the Triple Duty Valve allows you to accurately set your system flow rate and it also helps you easily reset the valve after shut-off. The soft seat design of the disc prevents noise and potential damage that can be associated with valve chatter. It also provides positive shut-off allowing you to isolate the pump from the rest of your system. The non-slam check valve prevents backflow and gravity circulation in staged pumping and parallel pumping systems, preventing damage to the pump and unwanted heat transfer through your system.

With our wide range of sizes, end connections, and valve configurations the Northam Triple Duty Valve is a great complement for your HVAC pump and system needs.

## FEATURES

- ▶ Performs as spring-loaded non-slam check, balancing, shut-off and throttling valve.
- ▶ Soft seated and accurately guided spring loaded disc ensures a leak free seal.
- ▶ The triple duty valves have been designed using CFD techniques to minimize head loss.
- ▶ Valve can be inline or right angle configuration.
- ▶ Drain plugs are provided at inlet and outlet of valve.
- ▶ Compact design.
- ▶ Spring-loaded disc ensures positive sealing and eliminates chatter.

## APPLICATIONS

- ▶ HVAC chilled water plants for air Conditioning of buildings, shopping malls, auditoriums, sports complexes, airports, etc.
- ▶ HVAC chilled water plants for Industries like pharmaceuticals, food & beverage, chemical, manufacturing etc.

## TECHNICAL DATA

Connection size	2½" inch to 12 inch
Pressure rating	125 psi, 250 psi, 16 bar, 25 bar



## FEATURES

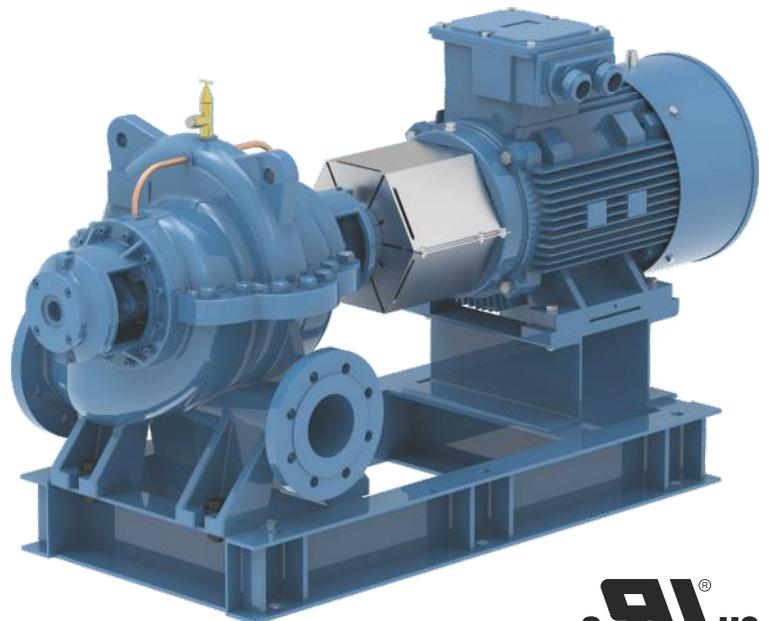
Following are the main features and benefits offered by the NH-S pumps.

- ▶ The pumps are non self priming horizontal split case pumps with radial suction port and discharge ports.
- ▶ Standard flanges for suction and discharge ports shall be ANSI 125 and ANSI 250 as per ASME B16.1. PN 16 or PN 25 flanges as per DIN standard EN 1092-2 are available on request.
- ▶ These pumps are available with gland packing or mechanical shaft seal.
- ▶ These pumps have the flow range upto 12000 USgpm and head range upto 525 feet.
- ▶ The pump impellers are dynamically balanced to grade 6.3 of ISO 1940.
- ▶ These pumps shall be supplied as a complete factory assembled and tested unit with motor, coupling, coupling guard and fabricated steel base frame.
- ▶ These pumps are available with standard foot mounted NEMA Premium efficiency or IE3 efficiency standard.
- ▶ The split case construction enables removal and dismantling of the internal pump parts e.g. bearings, wear rings, shaft seal and impeller without disturbing the motor & pipe work.

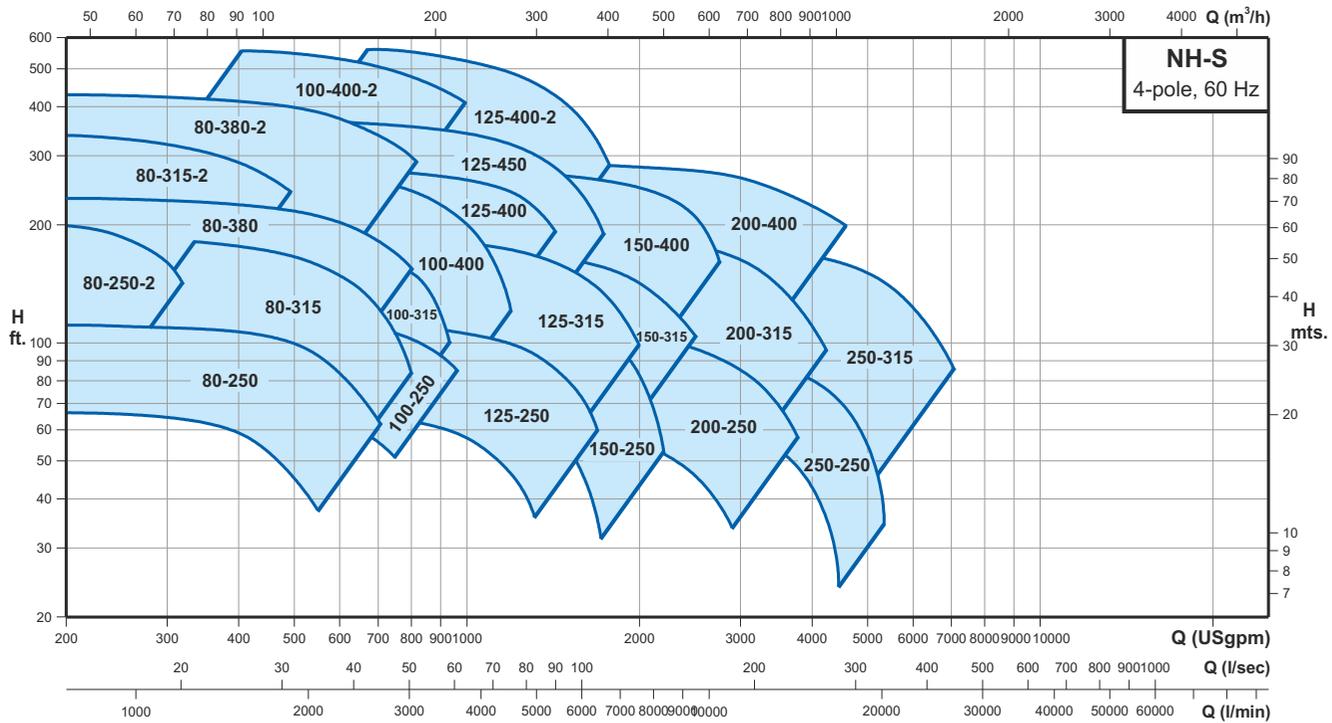
## APPLICATIONS

- ▶ Water Supply.
- ▶ Pressure boosting for high rise buildings, hotels industry etc.
- ▶ Industrial washing & cleaning systems.
- ▶ Cooling & Air Conditioning systems.
- ▶ Boiler feed and condensate transfer system.
- ▶ Irrigation systems for fields including sprinkler & drip irrigation systems.

NH-S SERIES



## PERFORMANCE RANGE 60Hz



NH-S SERIES

## SUBMERSIBLE EFFLUENT PUMPS

ND-F Submersible Effluent Pumps are suitable in Residential Commercial and Industrial applications for pumping of Wastewater or Effluents.

### FEATURES

- ▶ Rugged, Heavy Duty Construction with Stainless Steel Motor Housing.
- ▶ Triple Seal Design – Double Mechanical Shaft Seal + Oil Seal.
- ▶ Water entry resistant cable entry using epoxy encapsulation with compression grommet.
- ▶ Inbuilt Auto Reset Thermal Motor Protector provided for all models.
- ▶ All models are available with inbuilt float switch or without float switch.
- ▶ Available for Single phase or three phase, 60 Hz power supply.
- ▶ Available with Non-Clog Semi Open or Vortex design with oversize passages for solids handling.

### APPLICATIONS

- ▶ Wastewater or Effluent Pumping for Residential, Commercial & Industrial installations.

### PERFORMANCE

- ▶ Flow range : up to 342 USgpm
- ▶ Head range : up to 85 feet



ND-F SERIES

## SEWAGE SUBMERSIBLE PUMP

ND-H Series Sewage Submersible Pumps are Non Clog Pumps designed primarily for use in Municipal Sewage Water Treatment Plants for pumping of sewage waste water and digested sludge.

### FEATURES

- ▶ Rugged, Cast Iron, Heavy Duty Construction.
- ▶ Triple Seal Design – Double Mechanical Shaft Seal + Oil Seal.
- ▶ Water resistant cable entry using epoxy encapsulation with compression grommet.
- ▶ Inbuilt Auto Reset Thermal Motor Protector provided for all models up to 10 Hp.
- ▶ Above 10 hp pumps are provided with PTC Sensor embedded in windings for monitoring and protection of motor against over temperature through Controller.
- ▶ Water Detection Sensor provided in Seal Chamber to alert the customer of seal failure.
- ▶ Available with Non-Clog Semi Open, Enclosed and Vortex design with oversize passages for solids handling.
- ▶ Available with Submersible Guide Rail System for Safe and Easy Maintenance.

### APPLICATIONS

- ▶ Sewage Wastewater Pumping for Municipal, Industrial and Commercial installations.

### PERFORMANCE

- ▶ Flow range : up to 11000 USgpm
- ▶ Head range : up to 160 feet



ND-H SERIES

## SUBMERSIBLE DEWATERING PUMPS

ND-A Series Submersible Dewatering Pumps are suitable in Residential Commercial and Industrial Dewatering applications without solids.

### FEATURES

- ▶ Rugged Heavy Duty Construction with Stainless Steel Motor Housing.
- ▶ Triple Seal Design – Double Mechanical Shaft Seal + Oil Seal.
- ▶ Water resistant cable entry using epoxy encapsulation with rubber compression grommet.
- ▶ Inbuilt Auto Reset Thermal Motor Protector provided for all models.
- ▶ All models are available with or without inbuilt float switch.
- ▶ Available for Single phase or 3 phase, 60 Hz power supply.
- ▶ Non Clog Vortex design impellers.

### APPLICATIONS

- ▶ Dewatering of Slushy or turbid water without solids, flood control, dewatering of Basements or water bodies for Residential, Commercial and Industrial applications.

### PERFORMANCE

- ▶ Flow Range : up to 255 USgpm
- ▶ Head range : up to 97 feet



ND-A SERIES

## SUBMERSIBLE GRINDER PUMPS

ND-G Series Submersible Grinder Pumps are suitable for pumping “flushable” materials in Residential and Commercial applications.

### FEATURES

- ▶ Rugged, Heavy Duty, Cast Iron Construction.
- ▶ Triple Seal Design – Double Mechanical Shaft Seal + Oil Seal.
- ▶ Water resistant cable entry using epoxy encapsulation with rubber compression grommet.
- ▶ Inbuilt Auto Reset Thermal Motor Protector provided for all models.
- ▶ Rugged Cutter and Cutter Ring manufactured from Corrosion Resistant material and hardened to 55-60 Rockwell C Hardness.
- ▶ Available for Single phase or 3 phase, 60 Hz power supply.
- ▶ Impellers are of Vortex design.

### APPLICATIONS

- ▶ Suitable for pumping wastewater in Commercial and Residential applications when the wastewater is laden with “flushable” materials or kitchen waste.

### PERFORMANCE

- ▶ Flow Range : up to 85 USgpm
- ▶ Head range : up to 117 feet



ND-G SERIES

## SUBMERSIBLE DEWATERING PUMPS

ND-M Series Submersible Dewatering Pumps are designed primarily for use in Civil Construction and Storm Water Dewatering applications

### FEATURES

- ▶ Rugged Heavy Duty Construction with Stainless Steel Outer Jacket.
- ▶ Triple Seal Design – Double Mechanical Shaft Seal + Oil Seal.
- ▶ Water resistant cable entry using epoxy encapsulation with compression grommet.
- ▶ Inbuilt Auto Reset Thermal Motor Protector up to 10 HP.
- ▶ Above 10 hp pumps are provided with PTC Sensor embedded in windings for monitoring and protection of motor against over temperature through Controller.
- ▶ For models above 10 HP a Water Detection Sensor is provided in Seal Chamber to alert the customer of seal failure.
- ▶ Impellers are specially designed and manufactured from a wear resistant High Chrome Steel alloy hardened to 55-60 Rockwell C for abrasion resistance.
- ▶ Motor is cooled by pumped liquid passing between motor and outer Jacket to ensure that adequate cooling is available to motor when the pump is not fully submerged.
- ▶ Optional Hose, Flange or thread connections are available in place of standard discharge connection.

### APPLICATIONS

- ▶ Dewatering at Civil Construction sites and storm water pumping.

### PERFORMANCE

- ▶ Flow range : up to 687 USgpm
- ▶ Head range : up to 187 feet

ND-M SERIES



## END SUCTION PUMPS - FEATURES & BENEFITS

Following are the features & benefits offered by the End Suction NFE Fire pumps.

- ▶ State-of-the-art design fire pumping system.
- ▶ UL Listed/ FM Approved/ NFPA-20 design.
- ▶ Compact diesel engine or motor driven pump package.
- ▶ Rugged construction.
- ▶ More economical than Horizontal Split Case fire pump packages.
- ▶ Back pull-out design which simplifies inspection and maintenance without disturbing pipe work.
- ▶ Reduced installation time and cost
- ▶ Easy access to all working parts
- ▶ Ease of maintenance
- ▶ Single source unit responsibility.



NFE SERIES

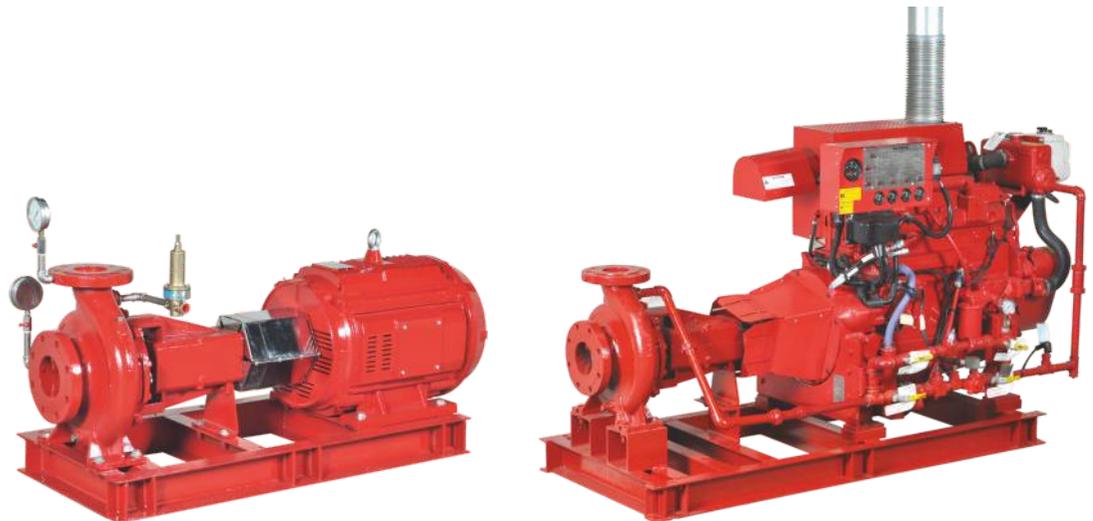
<b>Flow Range</b>	50 to 1250 US gpm
<b>Head Range</b>	76 to 299 psi

## APPLICATIONS

The NFE fire pumpsets are diesel engine or motor driven fire-fighting pumping units for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

- ▶ Commercial buildings & high rise buildings
- ▶ Airports and ports
- ▶ Jetties
- ▶ Marine applications
- ▶ Hotels & Hospitals
- ▶ Chemical industries
- ▶ Manufacturing plants
- ▶ Warehouses / godowns



## HORIZONTAL SPLIT CASE FIRE PUMPS - FEATURES & BENEFITS

Following are the features & benefits offered by Split Case NFE Fire pumps.

- ▶ State-of-the-art design fire pumping system.
- ▶ UL listed/FM approved/NFPA-20 design
- ▶ Diesel engine or electric motor driven pump
- ▶ Rugged construction
- ▶ Liberal water passages
- ▶ Automatic air relief valve
- ▶ Efficient operation
- ▶ Lower initial cost
- ▶ Reduced installation time and cost
- ▶ Easy access to all working parts
- ▶ Ease of maintenance
- ▶ Single source unit responsibility.



NFS SERIES

<b>Flow Range</b>	400 to 3000 US gpm
<b>Head Range</b>	61 to 336 psi

## APPLICATIONS

The NFE fire pumpsets are diesel engine or motor driven fire-fighting pumping units for supplying water to fire hose reels, fire hydrants or sprinkler systems in areas which are prone to the hazards of fire.

The typical applications are as follow:

- ▶ Commercial buildings & high rise buildings
- ▶ Airports and ports
- ▶ Jetties
- ▶ Marine applications
- ▶ Hotels & Hospitals
- ▶ Chemical industries
- ▶ Manufacturing plants
- ▶ Warehouses / godowns



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**Northam Inc.**

995/C Griffin Pond Road, Clarks Summit, PA 18411, USA  
Phone : +1-570-659-7200, Email : sales@northam-inc.com

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

