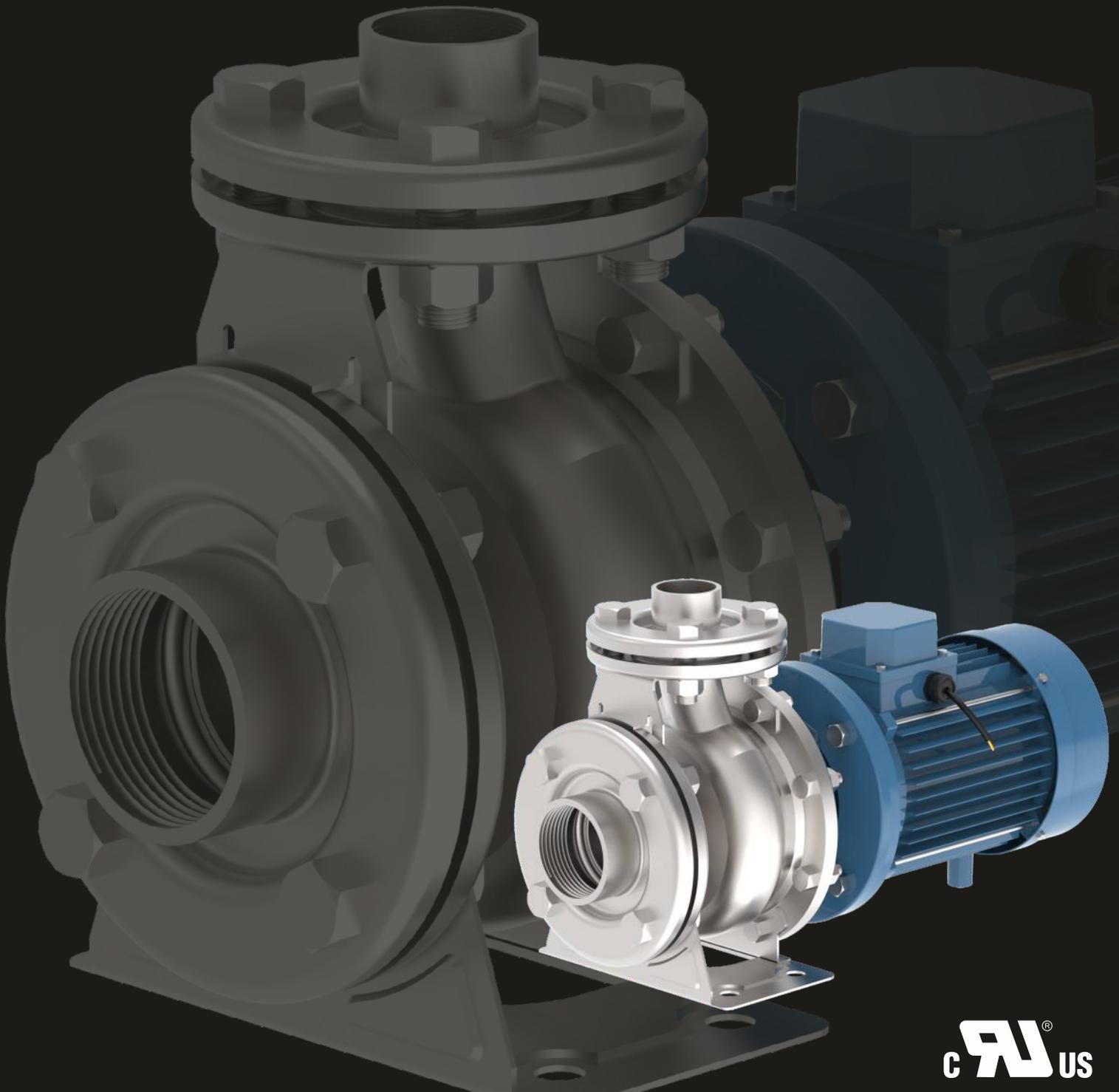




NE-S SERIES

CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS



60Hz

www.northam-inc.com

CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS

PREFACE

The **NORTHAM NE-S** series are non-self priming, horizontal, single-stage, end-suction, centrifugal volute casing pumps with axial suction port & radial discharge port. All wetted components are fabricated from Stainless Steel 304. Pumps are close coupled with TEFC squirrel cage induction motor. In a broad flow range it has high operating efficiency and low operating cost suitable for a wide range of applications.

APPLICATIONS

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

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

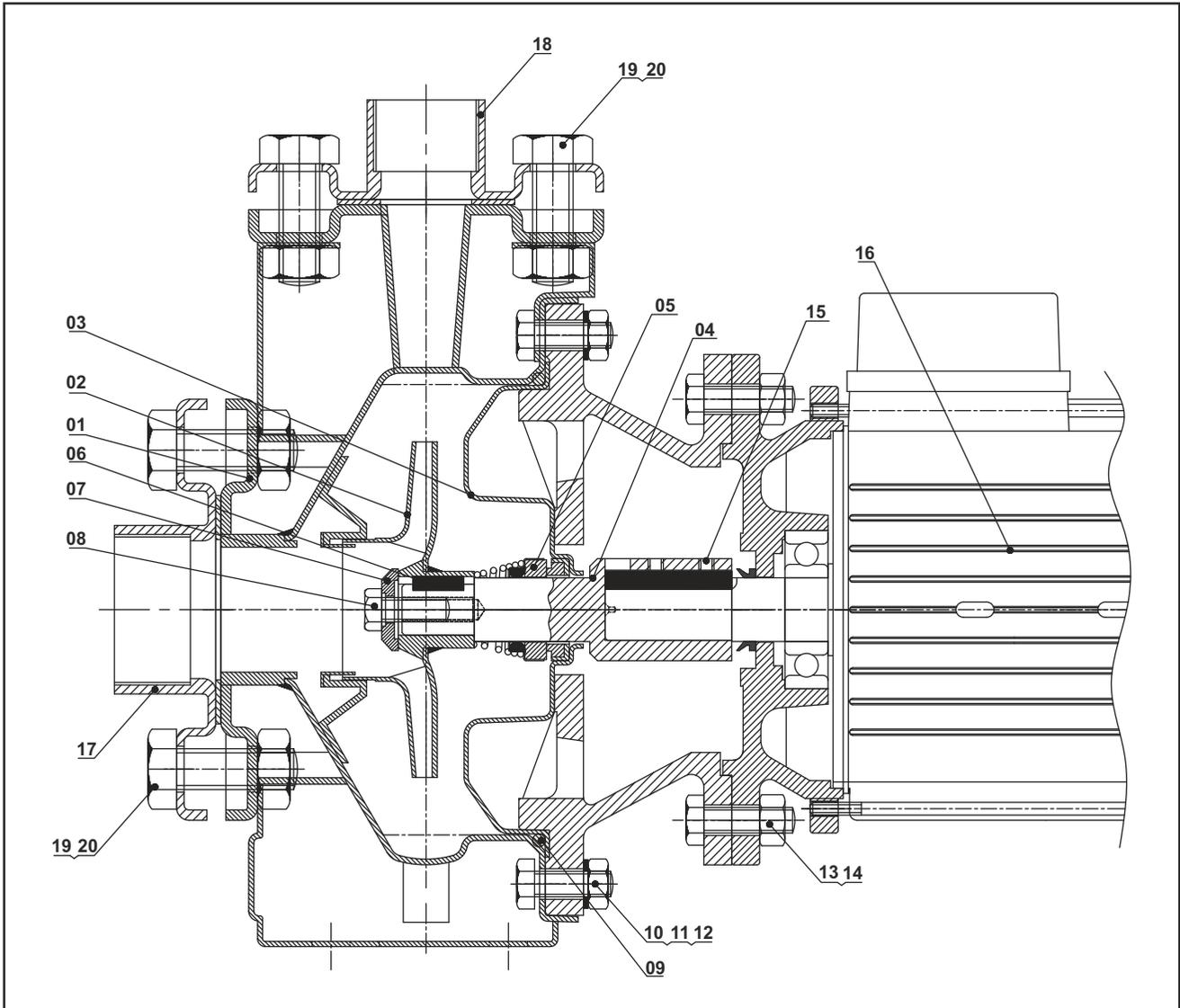
Flow range	Up to 850 GPM
Head range	Up to 220 feet
Ambient temperature	Max. +104°F
Liquid temperature range	-32°F to +284°F
Maximum working pressure	145 psi (10 bar)
Altitude	Should be lower than 3300 feet (1000 metres) above sea level

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

CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS

SECTIONAL DRAWING & MATERIAL OF CONSTRUCTION



Pos.	Component	Material
1	Volute casing	304 Stainless steel
2	Impeller	304 Stainless steel
3	Back cover	304 Stainless steel
4	Stub Shaft	304 Stainless steel
5	Mechanical seal	Carbon/SiC/Viton/316 SS
6	Key	304 Stainless steel
7	Impeller washer	304 Stainless steel
8	Impeller lock pin	304 Stainless steel
9	O-ring	Nitrile rubber
10	Hex pin	304 Stainless steel

Pos.	Component	Material
11	Washer	304 Stainless steel
12	Hex nut	304 Stainless steel
13	Hex pin	Carbon steel
14	Hex nut	Carbon steel
15	Grub screw	316 Stainless steel
16	Motor	-
17	Suction flange	304 Stainless steel
18	Delivery flange	304 Stainless steel
19	Hex pin	304 Stainless steel
20	Hex nut	304 Stainless steel

CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS

UP TO 50 HP MODEL CODE UP TO 850 GPM

NE S - 020 08 - 1 007 3 - F

Material of construction

Code	Casing	Impeller	Shaft
F	304 SS	304 SS	304 SS

Motor voltage

Code	Volts	Code	Volts
2	220/380V, 3 phase, 60 Hz	7	380-415V, 50 Hz
3	380V, 3 phase, 60 Hz	8	220-240/380-415V, 50 Hz
4	220/460V, 3 phase, 60 Hz		

Motor HP

Code	HP	Code	HP	Code	HP
001	1.5 HP	010	10 HP	040	40 HP
002	2 HP	015	15 HP	050	50 HP
003	3 HP	020	20 HP		
005	5 HP	025	25 HP		
007	7.5 HP	030	30 HP		

Motor RPM / Pole / Frequency

Code	RPM / Pole / Frequency
1	3450 rpm / 2 pole / 60 Hz
5	2900 rpm / 2 pole / 50 Hz

Nominal impeller diameter

Code	inch (mm)
05	5" (125 mm)
06	6.3" (160 mm)
08	8" (200 mm)

Discharge size (outlet size)

Code	inch (mm)	Code	inch (mm)
012	1.25" (32 mm)	025	2.5" (65 mm)
015	1.5" (40 mm)	030	3" (80 mm)
020	2" (50 mm)		

Classification

Code	Type
S	Close-coupled, Stainless steel

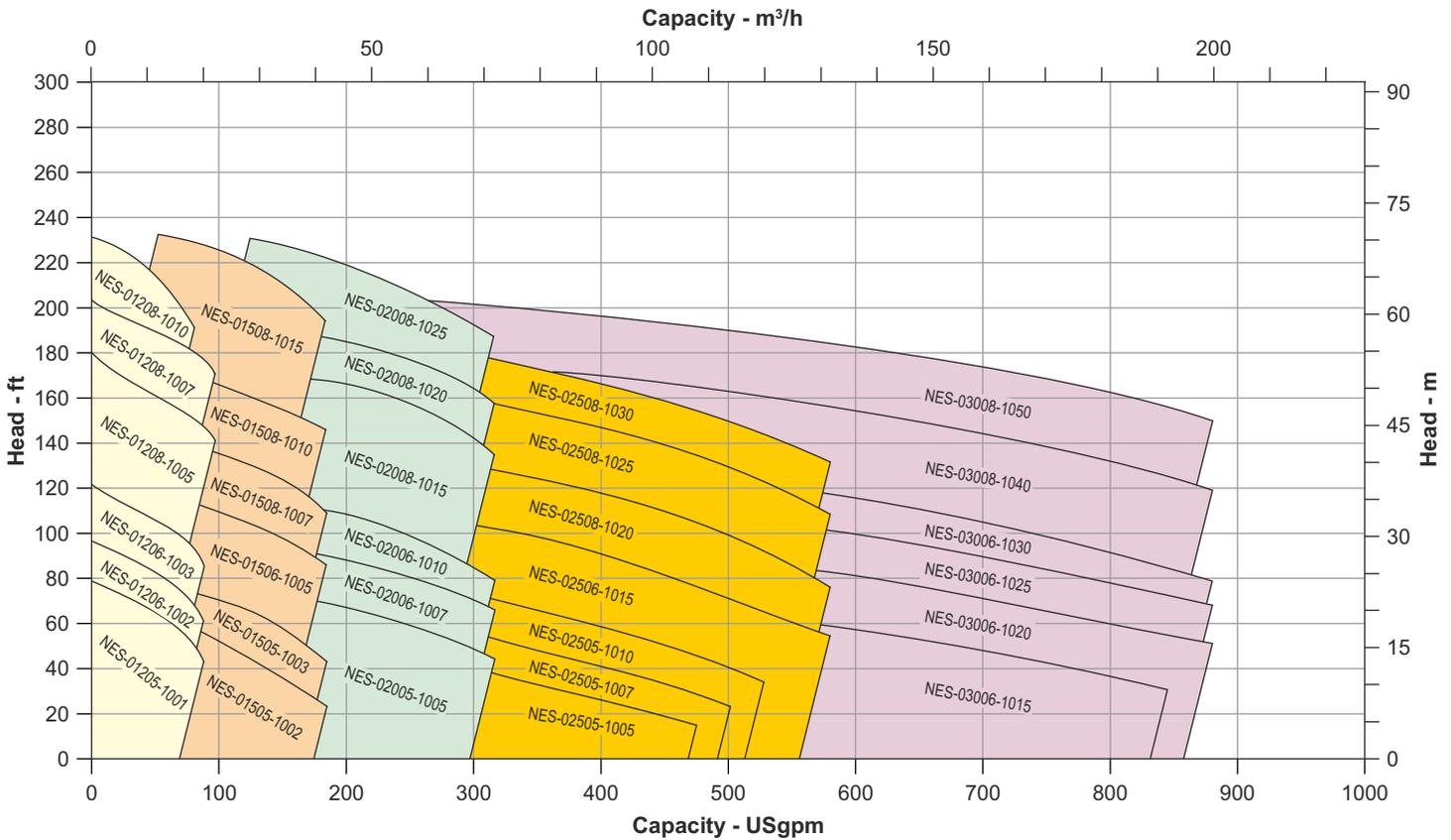
Series name

Code	Series
NE	End-suction pump

SAMPLE CODE - **NES-02008-10073-F**

CLOSE-COUPLED STAINLESS STEEL CENTRIFUGAL PUMPS

PERFORMANCE RANGE - 60 Hz, 3450 rpm



Model	HP
NES-01205-1001	1.5
NES-01206-1002	2
NES-01206-1003	3
NES-01208-1005	5
NES-01208-1007	7.5
NES-01208-1010	10

Model	HP
NES-01505-1002	2
NES-01505-1003	3
NES-01506-1005	5
NES-01508-1007	7.5
NES-01508-1010	10
NES-01508-1015	15

Model	HP
NES-02005-1005	5
NES-02006-1007	7.5
NES-02006-1010	10
NES-02008-1015	15
NES-02008-1020	20
NES-02008-1025	25

Model	HP
NES-02505-1005	5
NES-02505-1007	7.5
NES-02505-1010	10
NES-02506-1015	15
NES-02508-1020	20
NES-02508-1025	25
NES-02508-1030	30

Model	HP
NES-03006-1015	15
NES-03006-1020	20
NES-03006-1025	25
NES-03006-1030	30
NES-03006-1040	40
NES-03008-1050	50



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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.