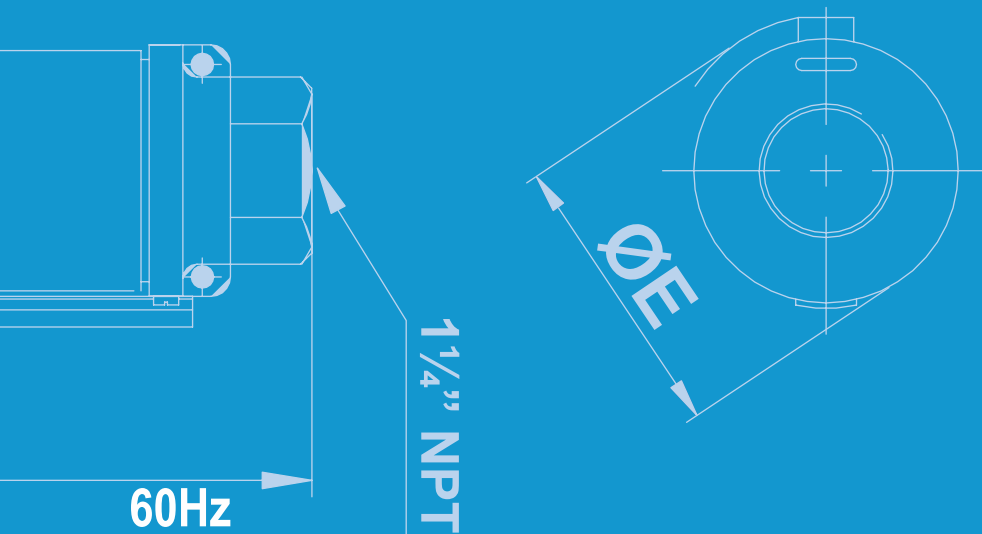


**NS-E SERIES**



# GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

WITH STAINLESS STEEL END BELLS



**PRODUCT CATALOGUE**

[www.northam-inc.com](http://www.northam-inc.com)

**This page is intentionally left blank.**

## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

### CONTENTS

General Data	4
Material of Construction	5
Performance Range	7
Model Code	8
Order Information	9
Selection Chart - 5 GPM	10
Selection Chart - 7 GPM	11
Selection Chart - 7 GPM	12
Selection Chart - 10 GPM	13
Selection Chart - 10 GPM	14
Selection Chart - 13 GPM	15
Selection Chart - 18 GPM	16
Selection Chart - 25 GPM	17
Selection Chart - 33 GPM	18
Selection Chart - 55 GPM	19
Selection Chart - 75 GPM	20
Performance Curve - 5 GPM	21
Performance Curve - 7 GPM	22
Performance Curve - 7 GPM	23
Performance Curve - 10 GPM	24
Performance Curve - 10 GPM	25
Performance Curve - 13 GPM	26
Performance Curve - 18 GPM	27
Performance Curve - 25 GPM	28
Performance Curve - 33 GPM	29
Performance Curve - 55 GPM	30
Performance Curve - 75 GPM	31
Dimensions - 5 GPM	32
Dimensions - 7 GPM	32
Dimensions - 7 GPM	32
Dimensions - 10 GPM	33
Dimensions - 10GPM	33
Dimensions- 13 GPM	33
Dimensions - 18 GPM	34
Dimensions - 25 GPM	34
Dimensions - 33 GPM	34
Dimensions - 55 GPM	35
Dimensions - 75 GPM	35

## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**GENERAL DATA**

**5 GPM to 75 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

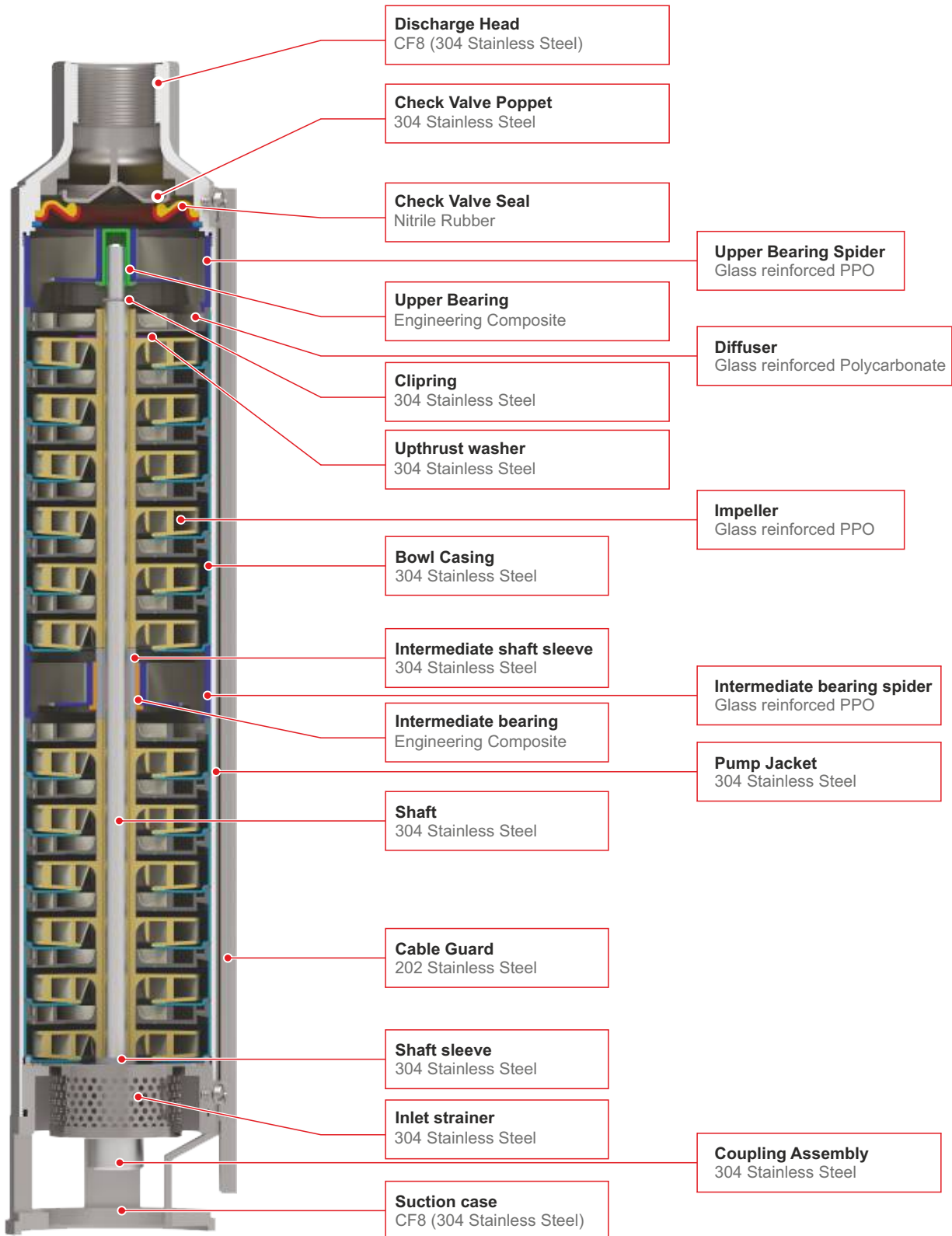
	<b>4" Pump</b>
Flow ratings	5, 7, 10, 13, 18, 25, 33, 55 & 75 GPM
Maximum head	1300 feet
Pump ratings	0.5 - 20 hp
Liquid temperature	+32 °F to +113 °F
Max. sand content	50 ppm

## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**MATERIAL OF CONSTRUCTION**

**5 GPM to 75 GPM**



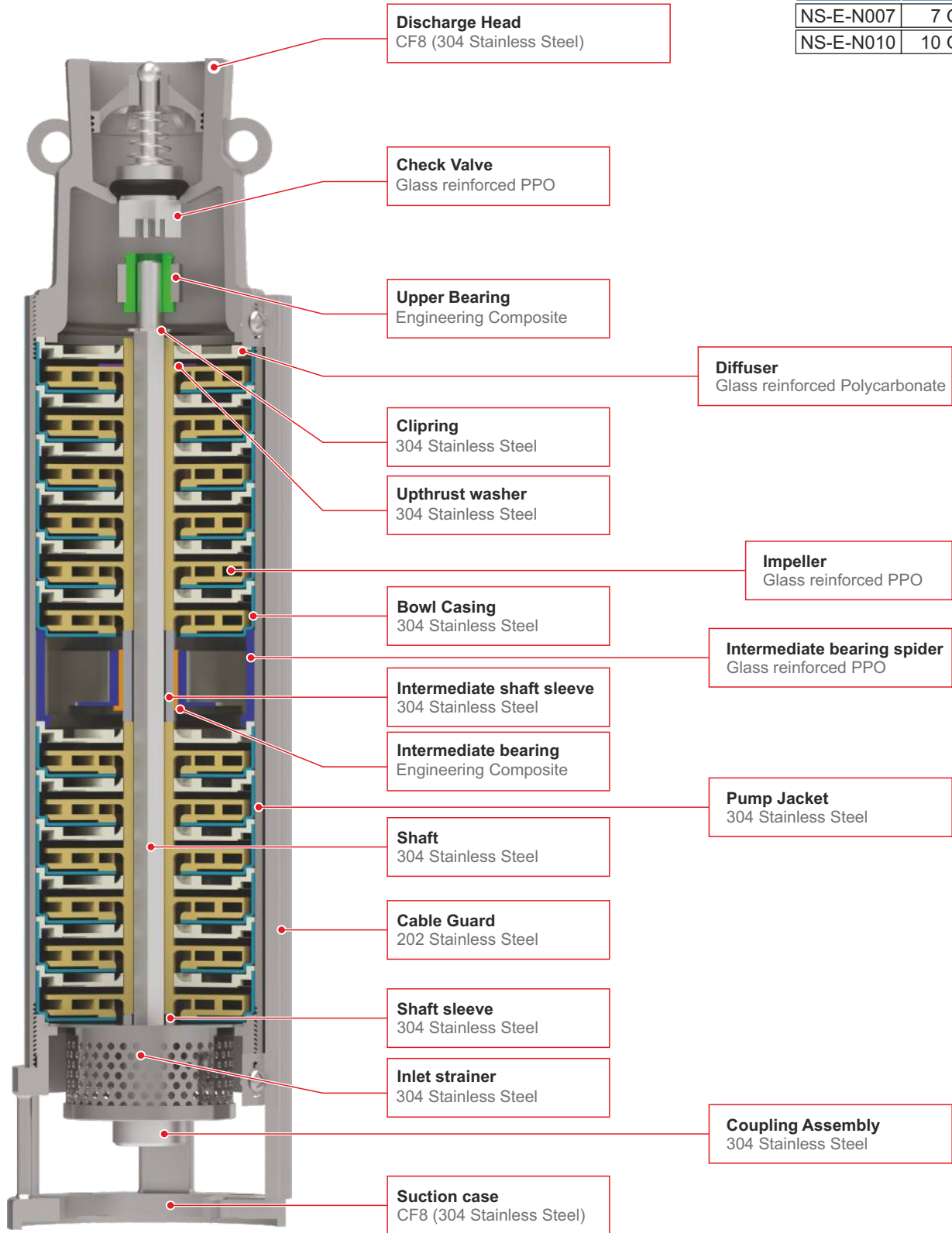
## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**MATERIAL OF CONSTRUCTION**

**7 GPM & 10 GPM**

Model Name	Rated Flow
NS-E-N007	7 GPM
NS-E-N010	10 GPM

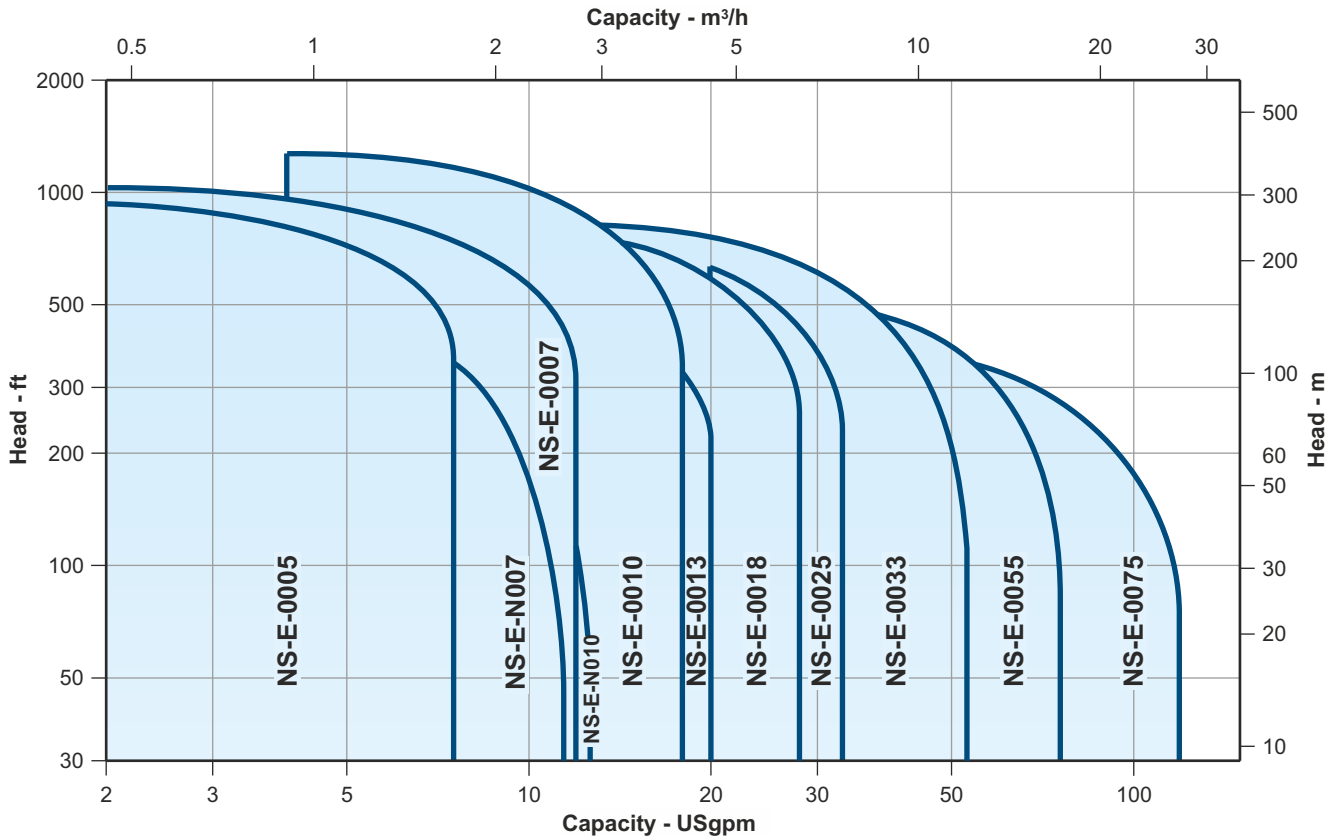


## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**PERFORMANCE RANGE**

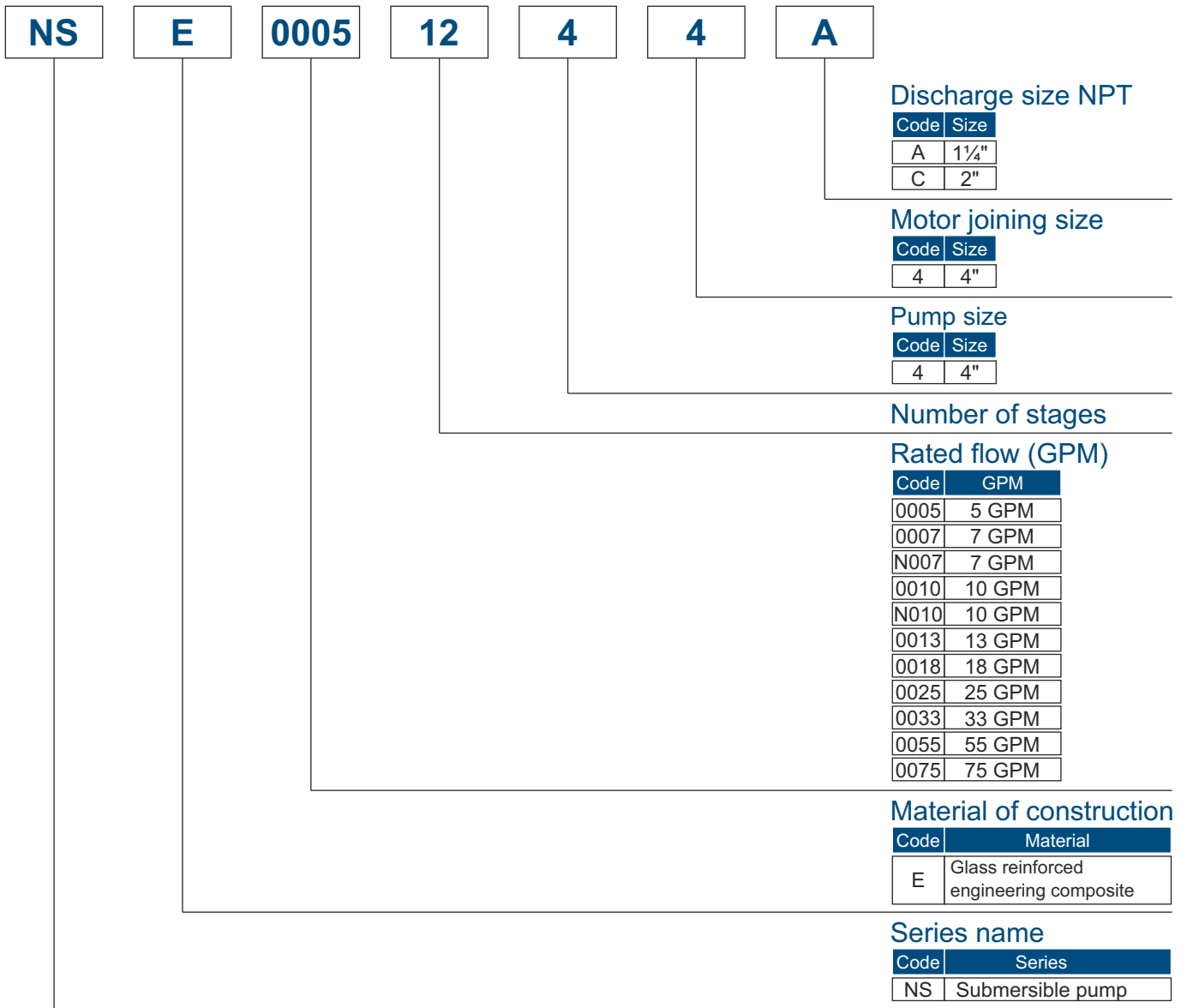
**5 GPM to 75 GPM**



Pump Size	Model Name	Rated Flow
4" PUMP	NS-E-0005	5 GPM
4" PUMP	NS-E-0007	7 GPM
4" PUMP	NS-E-N007	7 GPM
4" PUMP	NS-E-0010	10 GPM
4" PUMP	NS-E-N010	10 GPM
4" PUMP	NS-E-0013	13 GPM
4" PUMP	NS-E-0018	18 GPM
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

## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"      MODEL CODE      5 GPM to 75 GPM**



**Discharge size NPT**

Code	Size
A	1 1/4"
C	2"

**Motor joining size**

Code	Size
4	4"

**Pump size**

Code	Size
4	4"

**Number of stages**

**Rated flow (GPM)**

Code	GPM
0005	5 GPM
0007	7 GPM
N007	7 GPM
0010	10 GPM
N010	10 GPM
0013	13 GPM
0018	18 GPM
0025	25 GPM
0033	33 GPM
0055	55 GPM
0075	75 GPM

**Material of construction**

Code	Material
E	Glass reinforced engineering composite

**Series name**

Code	Series
NS	Submersible pump

**Example:**  
**NS-E-0005-12-4-4-A** = Submersible pump, Glass reinforced engineering composite material, 5 GPM, 12 stages, 4" Pump, 4" Motor joining, 1 1/4" Discharge size.



## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**ORDER INFORMATION**

**5 GPM to 75 GPM**

GPM	STAGES	MOTOR JOINING SIZE	ORDER NO. / MODEL CODE
5	09	4"	NS-E-0005-09-4-4-A
	11	4"	NS-E-0005-11-4-4-A
	15	4"	NS-E-0005-15-4-4-A
	20	4"	NS-E-0005-20-4-4-A
	26	4"	NS-E-0005-26-4-4-A
	31	4"	NS-E-0005-31-4-4-A
7	07	4"	NS-E-0007-07-4-4-A
	10	4"	NS-E-0007-10-4-4-A
	13	4"	NS-E-0007-13-4-4-A
	17	4"	NS-E-0007-17-4-4-A
	22	4"	NS-E-0007-22-4-4-A
	27	4"	NS-E-0007-27-4-4-A
7	34	4"	NS-E-0007-34-4-4-A
	11	4"	NS-E-N007-11-4-4-A
	15	4"	NS-E-N007-15-4-4-A
	20	4"	NS-E-N007-20-4-4-A
10	25	4"	NS-E-N007-25-4-4-A
	05	4"	NS-E-0010-05-4-4-A
	07	4"	NS-E-0010-07-4-4-A
	10	4"	NS-E-0010-10-4-4-A
	12	4"	NS-E-0010-12-4-4-A
	17	4"	NS-E-0010-17-4-4-A
	20	4"	NS-E-0010-20-4-4-A
	27	4"	NS-E-0010-27-4-4-A
	35	4"	NS-E-0010-35-4-4-A
10	42	4"	NS-E-0010-42-4-4-A
	12	4"	NS-E-N010-12-4-4-A
	15	4"	NS-E-N010-15-4-4-A
	20	4"	NS-E-N010-20-4-4-A
	27	4"	NS-E-N010-27-4-4-A
13	05	4"	NS-E-0013-05-4-4-A
	07	4"	NS-E-0013-07-4-4-A
	10	4"	NS-E-0013-10-4-4-A
	12	4"	NS-E-0013-12-4-4-A
	17	4"	NS-E-0013-17-4-4-A
	21	4"	NS-E-0013-21-4-4-A
18	06	4"	NS-E-0018-06-4-4-A
	08	4"	NS-E-0018-08-4-4-A
	11	4"	NS-E-0018-11-4-4-A
	14	4"	NS-E-0018-14-4-4-A
	19	4"	NS-E-0018-19-4-4-A
	24	4"	NS-E-0018-24-4-4-A
25	30	4"	NS-E-0018-30-4-4-A
	07	4"	NS-E-0025-07-4-4-A
	09	4"	NS-E-0025-09-4-4-A
	11	4"	NS-E-0025-11-4-4-A
	15	4"	NS-E-0025-15-4-4-A
	22	4"	NS-E-0025-22-4-4-A
26	4"	NS-E-0025-26-4-4-A	

GPM	STAGES	MOTOR JOINING SIZE	ORDER NO. / MODEL CODE
33	06	4"	NS-E-0033-06-4-4-C
	07	4"	NS-E-0033-07-4-4-C
	10	4"	NS-E-0033-10-4-4-C
	12	4"	NS-E-0033-12-4-4-C
	18	4"	NS-E-0033-18-4-4-C
	22	4"	NS-E-0033-22-4-4-C
	28	4"	NS-E-0033-28-4-4-C
	31	4"	NS-E-0033-31-4-4-C
55	05	4"	NS-E-0055-05-4-4-C
	07	4"	NS-E-0055-07-4-4-C
	09	4"	NS-E-0055-09-4-4-C
	11	4"	NS-E-0055-11-4-4-C
	13	4"	NS-E-0055-13-4-4-C
	15	4"	NS-E-0055-15-4-4-C
	17	4"	NS-E-0055-17-4-4-C
75	19	4"	NS-E-0055-19-4-4-C
	22	4"	NS-E-0055-22-4-4-C
	04	4"	NS-E-0075-04-4-4-C
	06	4"	NS-E-0075-06-4-4-C
	07	4"	NS-E-0075-07-4-4-C
	09	4"	NS-E-0075-09-4-4-C
75	11	4"	NS-E-0075-11-4-4-C
	12	4"	NS-E-0075-12-4-4-C
	14	4"	NS-E-0075-14-4-4-C
	16	4"	NS-E-0075-16-4-4-C

## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0005**

**SELECTION CHART**

**5 GPM**

RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	PSI	Depth to pumping water level (Lift) in feet																							
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	350	400	450	500	600	700	800	900	1000
1/2	9	0					7.3	6.8	6.4	5.8	5.2	4.5	3.8	2.6												
		20			7.1	6.7	6.2	5.6	5.0	4.3	3.5	2.4														
		30			7.1	6.6	6.1	5.5	5.0	4.2	3.3	2.0														
		40	7.4	7.0	6.5	6.0	5.4	4.8	4.0	3.2	1.7															
		50	6.9	6.5	5.9	5.4	4.7	4.0	3.0	1.5																
		60	6.4	5.8	5.3	4.5	3.8	2.9																		
Shut-off PSI			115	106	98	89	80	72	63	54	46	37	28	20	11											
1/2	11	0					7.3	6.9	6.5	6.1	5.6	5.2	4.6	4.0	3.4											
		20				7.2	6.8	6.4	6.0	5.5	5.0	4.5	3.8	3.0	2.0											
		30			7.4	7.1	6.7	6.3	5.8	5.4	4.9	4.4	3.7	3.0	2.0											
		40		7.4	7.0	6.7	6.2	5.8	5.3	4.8	4.3	3.6	2.7	1.5												
		50	7.3	7.0	6.6	6.2	5.7	5.3	4.8	4.2	3.6	2.5														
		60	6.9	6.5	6.2	5.7	5.2	4.7	4.0	3.5	2.5	1.5														
Shut-off PSI			143	134	125	117	108	99	91	82	73	65	56	47	39	30	21									
3/4	15	0							7.4	7.1	6.9	6.6	6.3	6.0	5.6	4.6	3.5	1.8								
		20					7.3	7.1	6.8	6.5	6.2	5.9	5.5	5.1	4.7	3.6	2.0									
		30					7.3	7.0	6.7	6.4	6.1	5.8	5.4	5.0	4.6	4.3	3.0									
		40				7.2	7.0	6.7	6.4	6.1	5.8	5.4	5.0	4.6	4.2	3.7	2.2									
		50			7.5	7.2	7.0	6.7	6.3	6.1	5.7	5.3	4.9	4.5	4.1	3.6	3.2									
		60		7.4	7.1	6.9	6.6	6.3	6.0	5.6	5.3	4.9	4.3	4.1	3.5	3.0	2.4									
Shut-off PSI			189	181	172	163	155	146	137	129	120	111	103	94	85	77	55	33	12							
1	20	0								7.4	7.2	7.0	6.8	6.6	6.4	5.8	5.2	4.5	3.7							
		20						7.3	7.1	6.9	6.8	6.5	6.3	6.1	5.8	5.2	4.5	3.8	2.8							
		30						7.3	7.1	6.9	6.7	6.5	6.3	6.0	5.8	5.6	4.9	4.2	3.4	2.3						
		40				7.5	7.3	7.1	6.9	6.7	6.5	6.2	6.0	5.8	5.5	5.2	4.6	3.8	3.0	1.5						
		50			7.4	7.2	7.0	6.8	6.6	6.4	6.2	6.0	5.8	5.5	5.2	4.9	4.2	3.5	2.3							
		60		7.4	7.2	7.0	6.8	6.6	6.4	6.2	5.9	5.7	5.4	5.2	4.9	4.7	3.8	3.0	1.7							
Shut-off PSI				246	237	228	220	211	202	194	185	176	168	159	150	142	120	98	77	55						
1 1/2	26	0													7.1	6.7	6.3	5.8	4.7	3.4						
		20												7.3	7.1	6.7	6.3	5.9	5.3	4.1	2.6					
		30											7.4	7.3	7.1	7.0	6.5	6.1	5.6	5.1	3.8	2.0				
		40										7.4	7.3	7.1	7.0	6.8	6.4	5.9	5.4	4.8	3.5					
		50										7.4	7.2	7.0	6.9	6.7	6.6	6.2	5.7	5.1	4.5	3.2				
		60									7.4	7.2	7.0	6.9	6.7	6.6	6.4	5.9	5.4	4.8	4.2					
Shut-off PSI										280	271	263	254	245	237	228	206	185	163	141	98	55				
2	31	0															7.2	6.8	6.1	5.2	4.1	2.7				
		20															7.2	6.8	6.5	5.7	4.7	3.5	1.8			
		30															7.4	7.0	6.7	6.3	5.5	4.5	3.3			
		40															7.2	6.9	6.5	6.1	5.3	4.3	2.9			
		50															7.1	6.7	6.3	5.9	5.1	3.9	2.5			
		60															7.3	6.9	6.5	6.2	5.7	4.8	3.7	1.9		
Shut-off PSI																304	282	260	239	217	174	130	87.0	43.6		

MOST EFFICIENT OPERATING RANGE.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.



## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-N007**

**SELECTION CHART**

**7 GPM**

RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	PSI	Depth to pumping water level (Lift) in feet																										
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	350	400	450	500	600	700	800	900	1000			
1/2	11	0	11.6	11.0	10.5	9.9	9.3	8.7	8.0	7.3	6.5	5.6	4.7	3.8	2.6														
		20	10.3	9.7	9.1	8.5	7.8	7.1	6.3	5.4	4.5	3.5	2.0																
		30	9.6	9.0	8.4	7.7	6.9	6.2	5.3	4.3	3.3	2.0																	
		40	9.0	8.3	7.6	6.8	6.0	5.1	4.1	3.0																			
		50	8.2	7.5	6.7	5.9	4.9	4.0	2.8																				
		60	7.5	6.5	5.8	4.9	3.9	2.7																					
Shut-off PSI			114	106	97	88	80	71	62	54	45	36	28	19	10														
3/4	15	0	11.7	11.3	10.9	10.5	10.1	9.7	9.3	8.8	8.3	7.8	7.2	6.7	6.1	5.4	4.7	2.8											
		20	10.8	10.4	10.0	9.6	9.1	8.7	8.2	7.6	7.1	6.5	5.9	5.2	4.5	3.8	3.0												
		30	10.3	9.9	9.5	9.0	8.6	8.1	7.5	7.0	6.4	5.8	5.2	4.4	3.7														
		40	9.8	9.4	9.0	8.5	8.0	7.5	6.9	6.3	5.7	5.0	4.3	3.6	2.8														
		50	9.4	8.9	8.3	7.9	7.4	6.8	6.2	5.6	4.9	4.2	3.4	2.5															
		60	8.8	8.3	7.8	7.3	6.8	6.2	5.5	4.8	4.1	3.4	2.4																
Shut-off PSI			159	150	142	133	124	116	107	98	90	81	72	64	55	46	38	16											
1	20	0			11.2	10.9	10.6	10.3	10.0	9.7	9.4	9.0	8.7	8.3	7.9	7.5	7.1	6.0	4.7	3.4									
		20	11.1	10.8	10.5	10.2	9.9	9.6	9.2	8.9	8.5	8.2	7.8	7.4	7.0	6.5	6.1	4.8	3.5										
		30	10.7	10.4	10.2	9.8	9.5	9.2	8.9	8.5	8.1	7.7	7.3	6.9	6.5	6.0	5.5	4.2	2.7										
		40	10.4	10.1	9.8	9.5	9.2	8.8	8.4	8.1	7.6	7.2	6.8	6.4	5.9	5.4	5.0	3.5											
		50	10.1	9.8	9.4	9.1	8.8	8.4	8.0	7.6	7.2	6.7	6.3	5.8	5.3	4.8	4.3	2.9											
		60	9.7	9.4	9.0	8.7	8.3	8.0	7.6	7.1	6.8	6.3	5.8	5.3	4.8	4.2	3.7												
Shut-off PSI			215	206	198	189	180	172	163	154	146	137	128	120	111	102	94	72	50	29									
1 1/2	25	0		11.6	11.4	11.1	10.9	10.6	10.4	10.2	9.9	9.7	9.4	9.1	8.9	8.6	8.3	7.5	6.6	5.7	4.8	2.3							
		20	11.3	11.0	10.8	10.6	10.3	10.1	9.8	9.6	9.3	9.0	8.7	8.5	8.2	7.8	7.5	6.8	5.8	4.8	3.8								
		30	11.0	10.7	10.5	10.3	10.1	9.8	9.6	9.3	9.0	8.7	8.5	8.2	7.8	7.5	7.2	6.3	5.4	4.3	3.2								
		40	10.7	10.5	10.3	10.0	9.8	9.5	9.3	9.0	8.7	8.4	8.1	7.8	7.5	7.2	6.8	5.9	4.9	3.8	2.5								
		50	10.5	10.2	10.0	9.8	9.5	9.2	9.0	8.7	8.4	8.1	7.7	7.4	7.1	6.8	6.4	5.4	4.4	3.3									
		60	10.2	10.0	9.7	9.5	9.2	8.9	8.6	8.3	8.0	7.7	7.4	7.0	6.7	6.3	6.0	5.0	3.9	2.7									
Shut-off PSI			271	262	254	245	236	228	219	210	202	193	184	176	167	158	150	128	106	84	63	19							

  MOST EFFICIENT OPERATING RANGE.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.



## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

MODEL NAME: NS-E-N010

SELECTION CHART

10 GPM

RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	PSI	Depth to pumping water level (Lift) in feet																								
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	350	400	450	500	600	700	800	900	1000	
1/2	12	0	12.7	12.2	11.8	11.2	10.7	10.1	9.5	9.0	8.3	7.5	6.8	5.9	4.9	3.5											
		20	11.6	11.0	10.5	9.9	9.4	8.7	8.0	7.4	6.5	5.6	4.4	3.0													
		30	11.0	10.5	9.8	9.3	8.6	8.0	7.3	6.5	5.4	4.2	2.9														
		40	10.4	9.8	9.2	8.5	7.9	7.1	6.2	5.3	4.2	2.5															
		50	9.7	9.0	8.4	7.8	7.0	6.0	5.2	3.9	2.4																
		60	8.8	8.3	7.6	6.9	6.0	5.0	3.6	2.0																	
Shut-off PSI			126	118	109	100	92	83	74	66	57	48	40	31	22	14											
3/4	15	0	12.9	12.5	12.1	11.7	11.2	10.8	10.4	9.9	9.5	8.9	8.4	7.8	7.3	6.6	6.0	3.5									
		20	12.0	11.5	11.1	10.7	10.3	9.8	9.3	8.8	8.3	7.7	7.0	6.4	5.7	5.0	3.7										
		30	11.5	11.0	10.6	10.2	9.7	9.2	8.7	8.2	7.5	7.0	6.2	5.5	4.7	3.7	2.4										
		40	11.0	10.5	10.1	9.6	9.1	8.6	8.0	7.5	6.9	6.2	5.5	4.5	3.4	2.4											
		50	10.5	10.0	9.5	9.0	8.5	8.0	7.4	6.8	6.1	5.2	4.3	3.4													
		60	10.0	9.5	9.0	8.5	7.9	7.3	6.7	6.0	5.2	4.2	3.0														
Shut-off PSI			160	151	143	134	125	117	108	99	91	82	73	65	56	47	39	17									
1	20	0	12.9	12.7	12.4	12.1	11.8	11.4	11.1	10.8	10.5	10.1	9.8	9.4	9.0	8.7	8.3	7.2	5.9	4.3							
		20	12.3	12.0	11.7	11.4	11.0	10.6	10.4	10.0	9.7	9.3	9.0	8.5	8.2	7.7	7.3	6.1	4.5								
		30	11.9	11.6	11.3	11.0	10.7	10.3	10.0	9.7	9.3	8.8	8.5	8.1	7.7	7.3	6.7	5.4	3.5								
		40	11.5	11.2	10.9	10.6	10.3	9.9	9.6	9.2	8.8	8.5	8.0	7.6	7.2	6.7	6.2	4.6	2.3								
		50	11.2	10.9	10.5	10.2	9.9	9.5	9.2	8.7	8.4	8.0	7.5	7.0	6.6	6.1	5.5	3.7									
		60	10.8	10.5	10.2	9.8	9.5	9.1	8.7	8.3	7.9	7.5	7.0	6.5	6.0	5.4	4.7	2.5									
Shut-off PSI			216	208	199	190	182	173	164	156	147	138	130	121	112	104	95	73	52	30							
1½	27	0	13.0	12.8	12.6	12.4	12.2	11.9	11.7	11.5	11.2	11.0	10.7	10.5	10.3	10.0	9.7	9.1	8.3	7.5	6.7	4.5					
		20	12.5	12.3	12.1	11.9	11.6	11.4	11.2	10.9	10.7	10.4	10.2	9.9	9.7	9.4	9.1	8.4	7.6	6.8	5.8	3.0					
		30	12.3	12.0	11.8	11.6	11.3	11.1	10.9	10.7	10.4	10.2	9.9	9.6	9.4	9.1	8.8	8.0	7.2	6.3	5.3						
		40	12.0	11.8	11.6	11.4	11.0	10.8	10.6	10.3	10.1	9.8	9.6	9.4	9.0	8.7	8.5	7.7	6.8	5.8	4.7						
		50	11.8	11.5	11.3	10.9	10.8	10.6	10.3	10.0	9.7	9.5	9.3	9.0	8.7	8.4	8.1	7.3	6.4	5.4	4.1						
		60	11.5	11.2	11.0	10.7	10.5	10.3	10.0	9.7	9.5	9.2	9.0	8.7	8.4	8.1	7.7	6.9	5.9	4.8							
Shut-off PSI			295	286	278	269	260	252	243	234	226	217	208	200	191	182	174	152	130	109	87	44					

MOST EFFICIENT OPERATING RANGE.

PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

MODEL NAME: NS-E-0013

SELECTION CHART

13 GPM

RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	PSI	Depth to pumping water level (Lift) in feet																								
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	350	400	450	500	600	700	800	900	1000	
1/2	5	0			19.6	17.8	15.5	12.5	7.0																		
		20	19.2	17.0	14.6	11.4	4.0																				
		30	16.8	14.0	10.6																						
		40	13.5	10.0																							
		50	9.0																								
		60																									
Shut-off PSI			55	47	38	29	21	12	3																		
3/4	7	0				20.0	18.6	17.0	15.3	13.4	10.6	6.0															
		20		19.5	18.2	16.5	14.8	12.5	9.6																		
		30	19.3	18.0	16.5	14.5	12.3	9.0																			
		40	17.6	16.0	14.0	12.0	8.2																				
		50	15.8	13.8	11.5	7.8																					
		60	13.5	11.0	6.5																						
Shut-off PSI			81	72	63	55	46	37	29	20	11	3															
1	10	0						19.6	18.8	17.8	16.6	15.4	14.0	12.5	10.5	7.0											
		20				19.4	18.5	17.4	16.3	15.0	13.5	12.0	9.5	5.5													
		30			19.3	18.4	17.3	16.0	14.8	13.2	11.5	9.0	4.0														
		40		19.1	18.1	17.0	15.8	14.5	13.0	11.4	8.5																
		50	19.0	18.0	17.0	15.6	14.4	12.7	11.0	8.0																	
		60	17.8	16.7	15.5	14.0	12.6	10.5	7.3																		
Shut-off PSI			119	110	102	93	84	76	67	58	50	41	32	24	15	6											
1 1/2	12	0								19.0	18.2	17.4	16.5	15.4	14.2	13.0	11.5	4.0									
		20				19.6	18.8	18.0	17.1	16.1	15.0	13.8	12.5	11.0	8.8	4.5											
		30			19.5	18.7	17.9	16.9	16.0	14.8	13.6	12.5	10.6	8.2	4.0												
		40		19.2	18.5	17.7	16.8	15.8	14.6	13.5	12.0	10.5	8.0														
		50	19.3	18.5	17.6	16.6	15.6	14.5	13.3	12.0	10.0	7.0															
		60	19.2	18.4	17.5	16.5	15.5	14.3	13.0	11.5	10.0	6.8															
Shut-off PSI			145	136	127	119	110	101	93	84	75	67	58	49	41	32	23	2									
2	17	0										19.8	19.3	18.7	18.1	17.5	16.8	15.0	12.8	9.8							
		20									19.6	19.1	18.5	17.9	17.3	16.7	15.9	15.1	13.0	10.1							
		30								19.5	19.0	18.5	17.9	17.2	16.5	15.8	15.0	14.2	11.8	8.0							
		40						19.5	18.9	18.4	17.8	17.1	16.5	15.6	14.9	14.0	13.2	10.5	4.2								
		50			19.9	19.3	18.8	18.3	17.7	17.0	16.4	15.6	14.8	13.9	13.0	12.0	8.6										
		60		19.8	19.3	18.8	18.2	17.6	16.9	16.2	15.5	14.6	13.8	12.8	11.9	10.6	5.0										
Shut-off PSI				191	183	174	165	157	148	139	131	122	113	105	96	87	66	44	22								
3	21	0												19.5	19.1	18.6	17.4	16.0	14.4	12.5	5.5						
		20												19.0	18.5	18.0	17.5	16.1	14.5	12.7	10.5						
		30									19.7	19.3	18.9	18.5	17.9	17.5	16.9	15.5	13.7	11.8	8.8						
		40								19.7	19.2	18.8	18.4	17.8	17.4	16.8	16.2	14.6	12.9	10.6	6.7						
		50						19.6	19.2	18.7	18.3	17.8	17.3	16.7	16.1	15.5	13.8	11.9	9.1	3.0							
		60					19.5	19.1	18.7	18.2	17.7	17.2	16.6	16.0	15.5	14.8	13.0	10.9	7.0								
Shut-off PSI						216	208	199	190	182	173	164	156	147	138	117	95	73	52	8							

MOST EFFICIENT OPERATING RANGE.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.













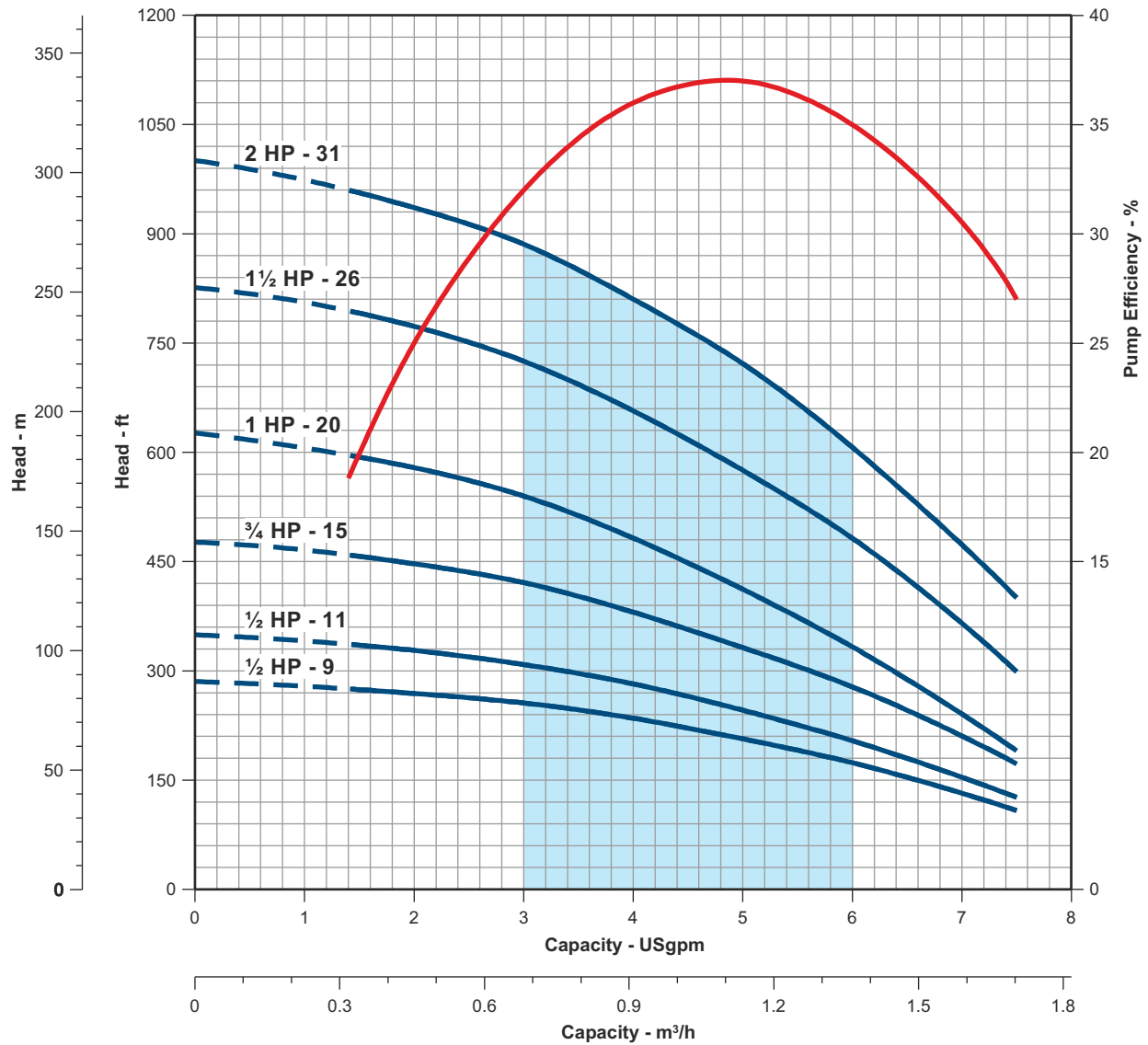
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0005**

**PERFORMANCE CURVE**

**5 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
— RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

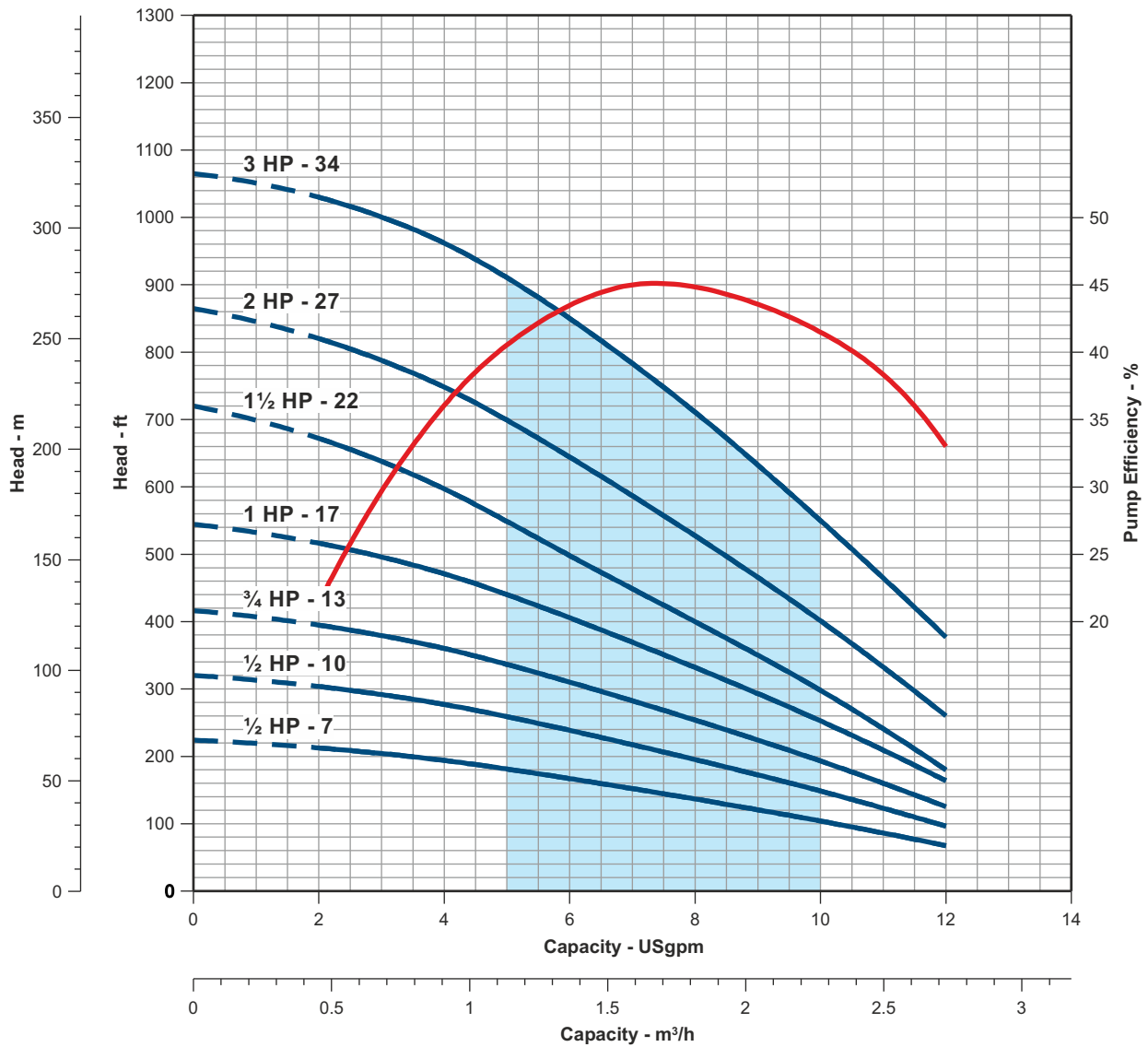
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0007**

**PERFORMANCE CURVE**

**7 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
— RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

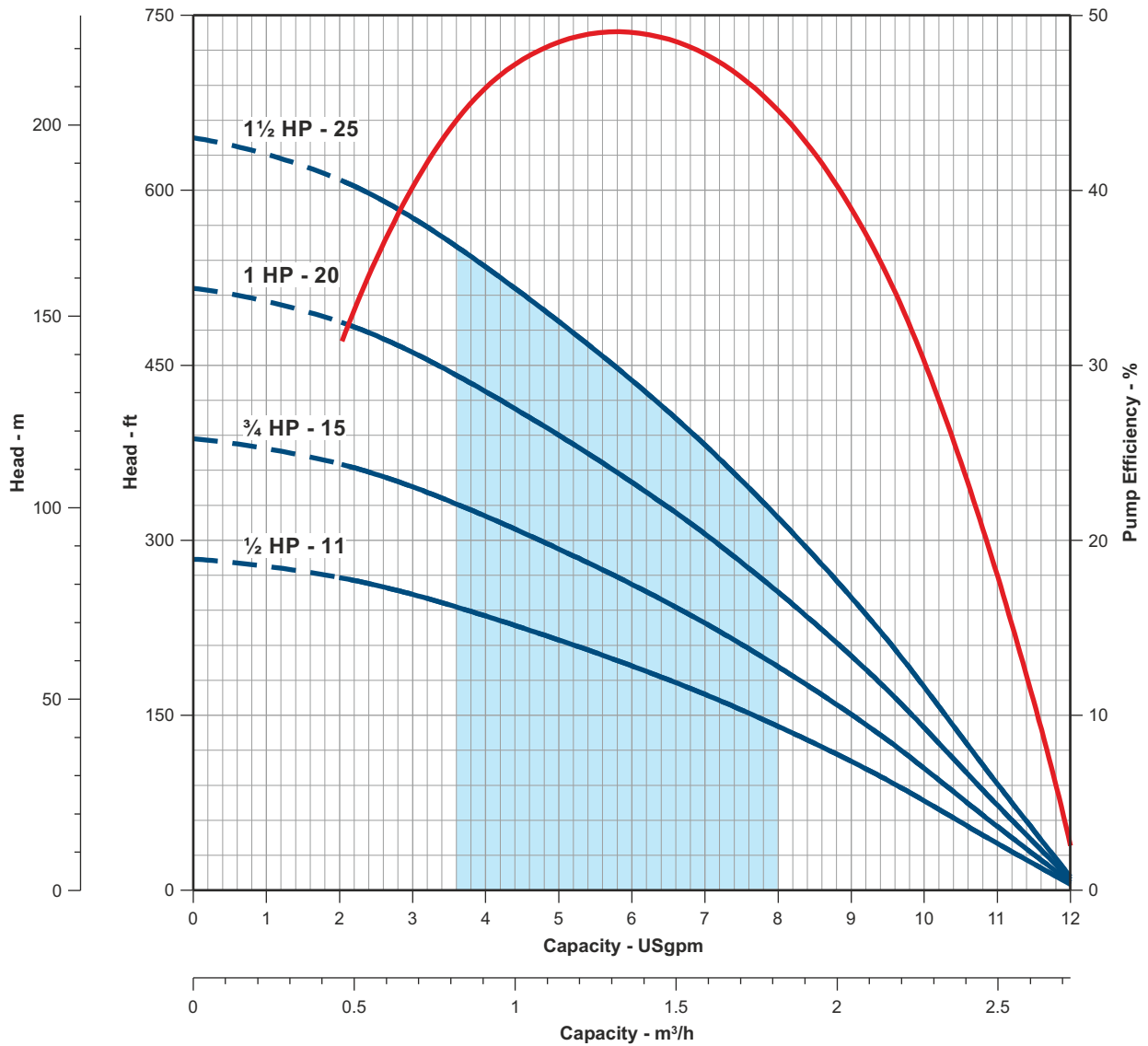
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-N007**

**PERFORMANCE CURVE**

**7 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



BEST EFFICIENCY REGION  
 RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

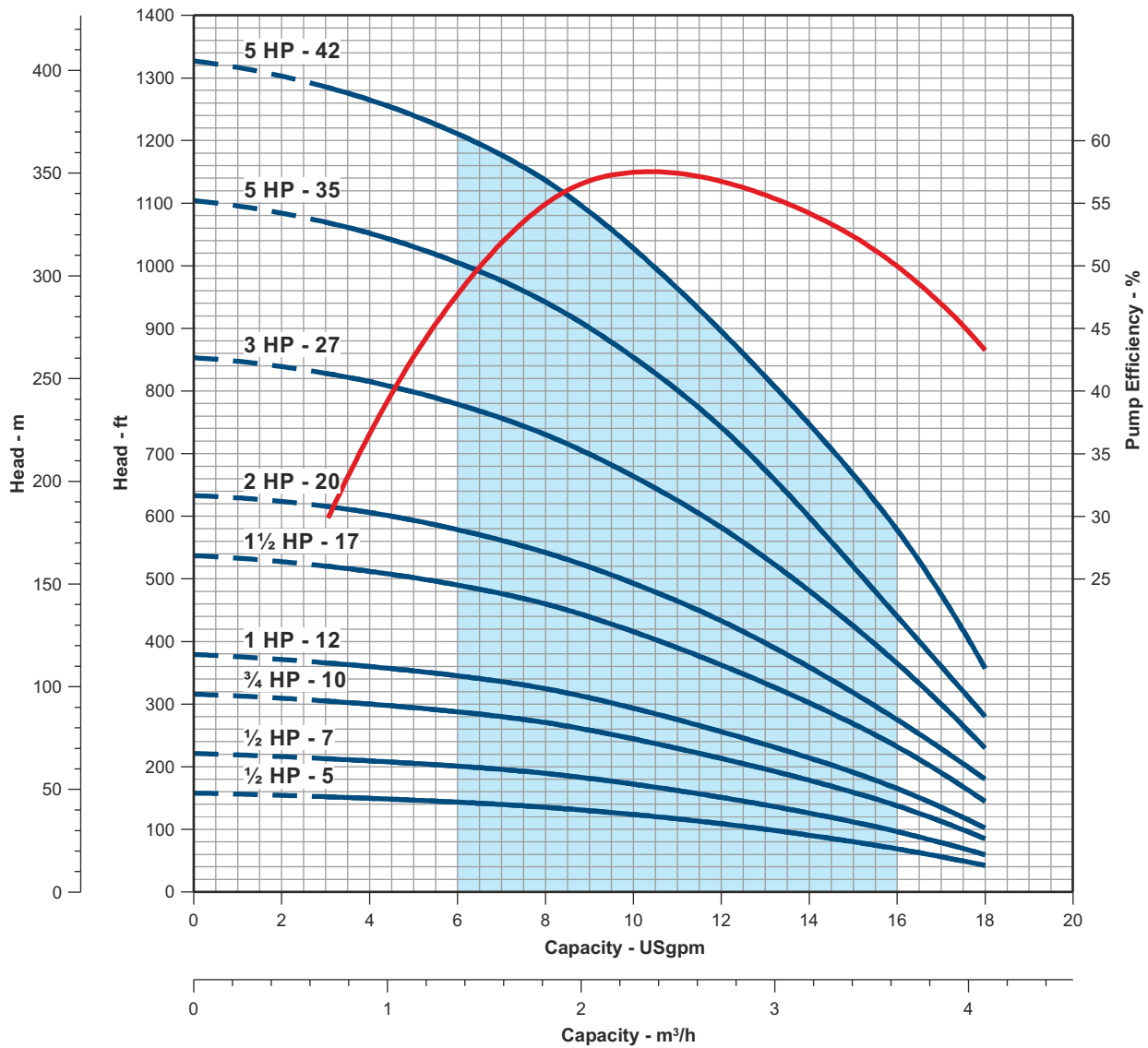
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0010**

**PERFORMANCE CURVE**

**10 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
■ RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.



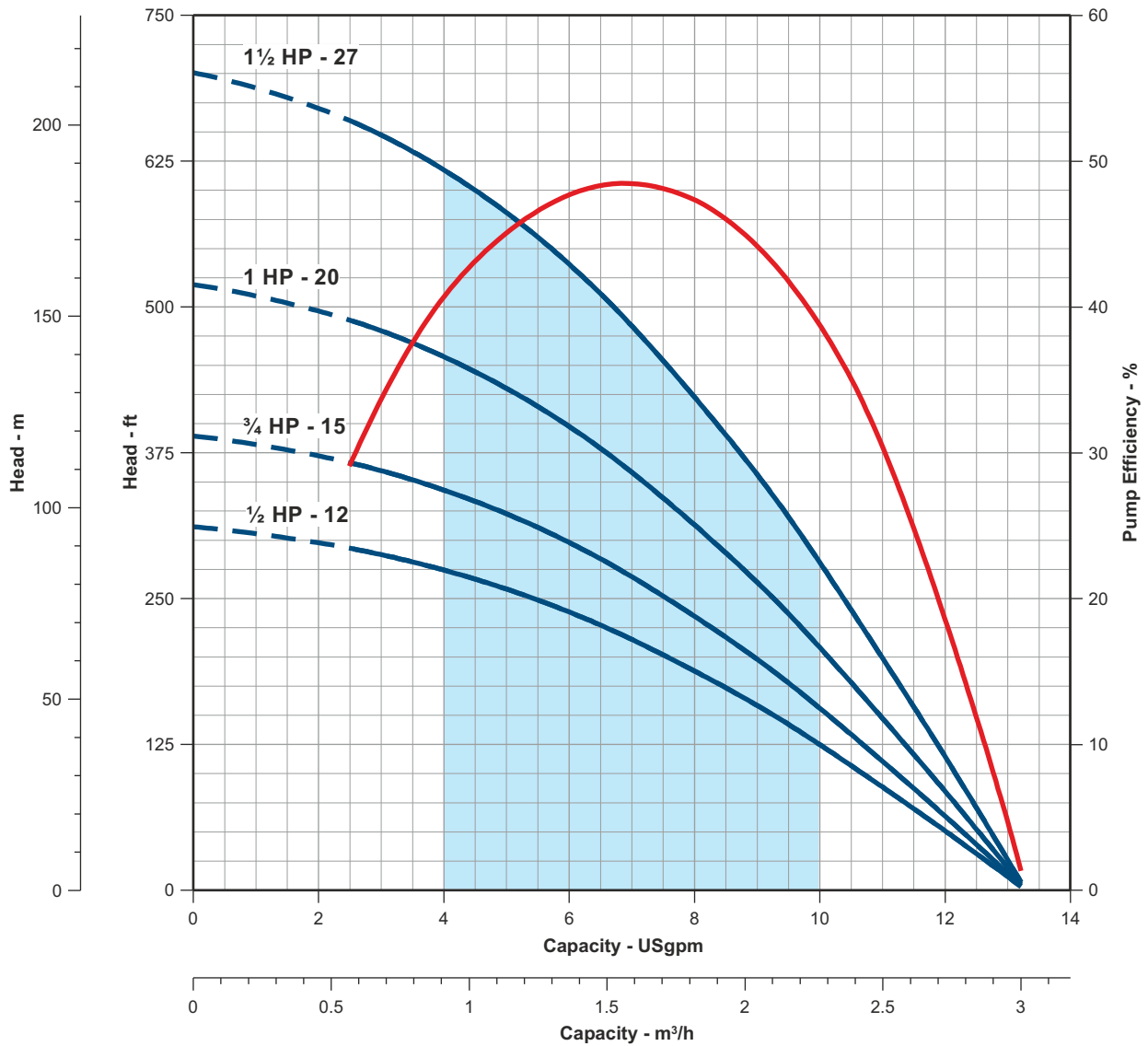
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-N010**

**PERFORMANCE CURVE**

**10 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
— RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

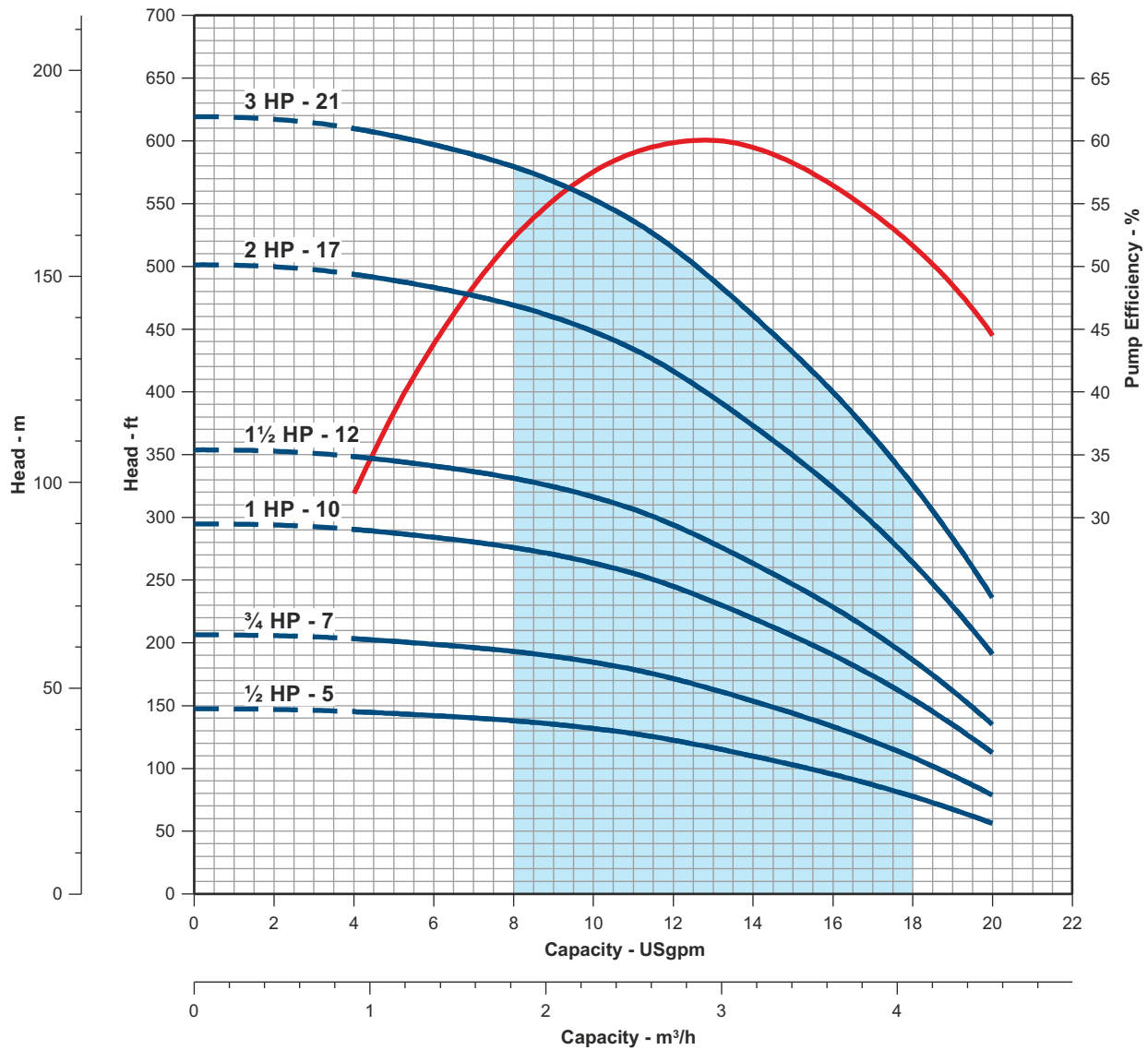
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0013**

**PERFORMANCE CURVE**

**13 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



BEST EFFICIENCY REGION  
 RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

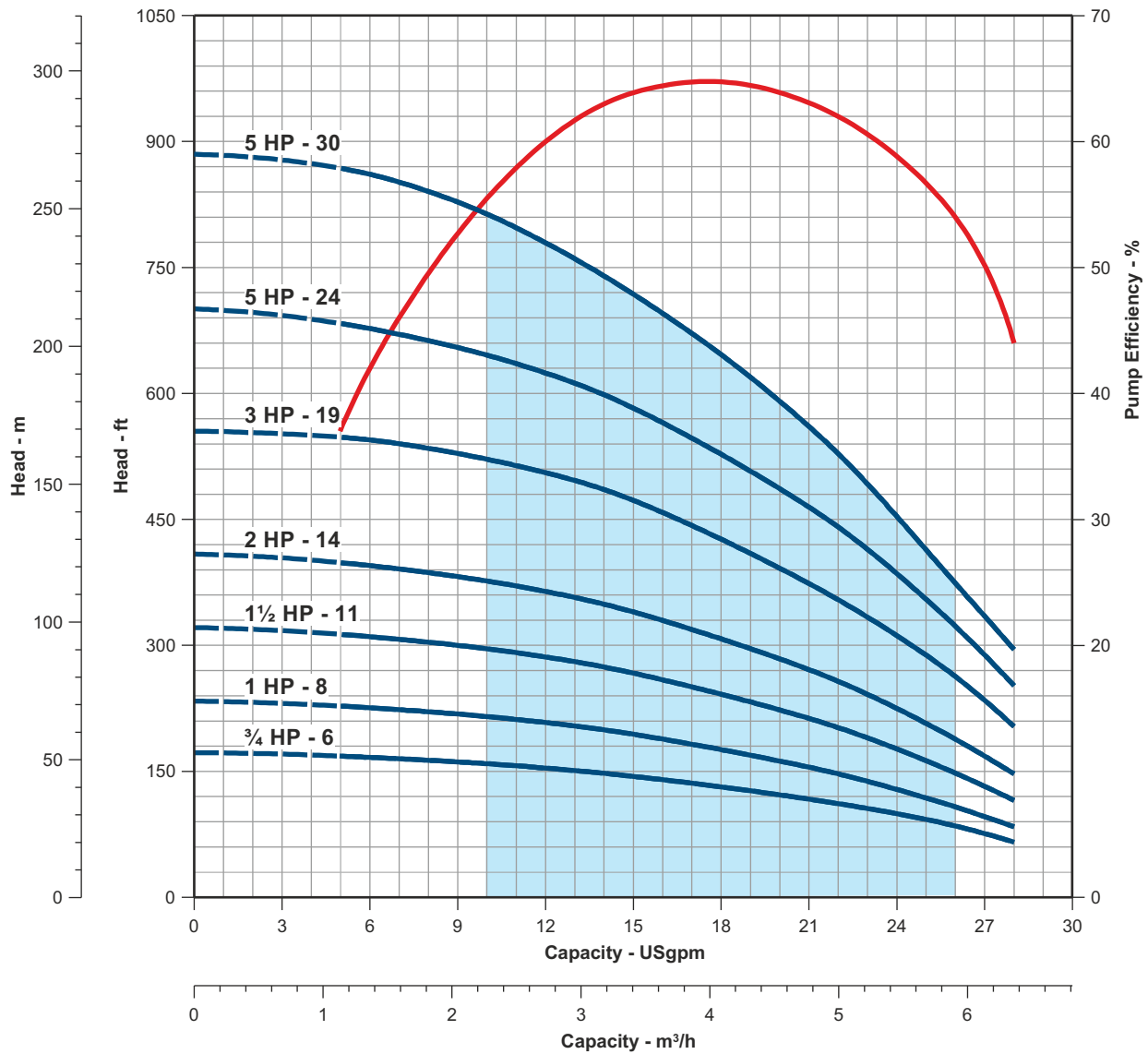
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0018**

**PERFORMANCE CURVE**

**18 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
■ RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

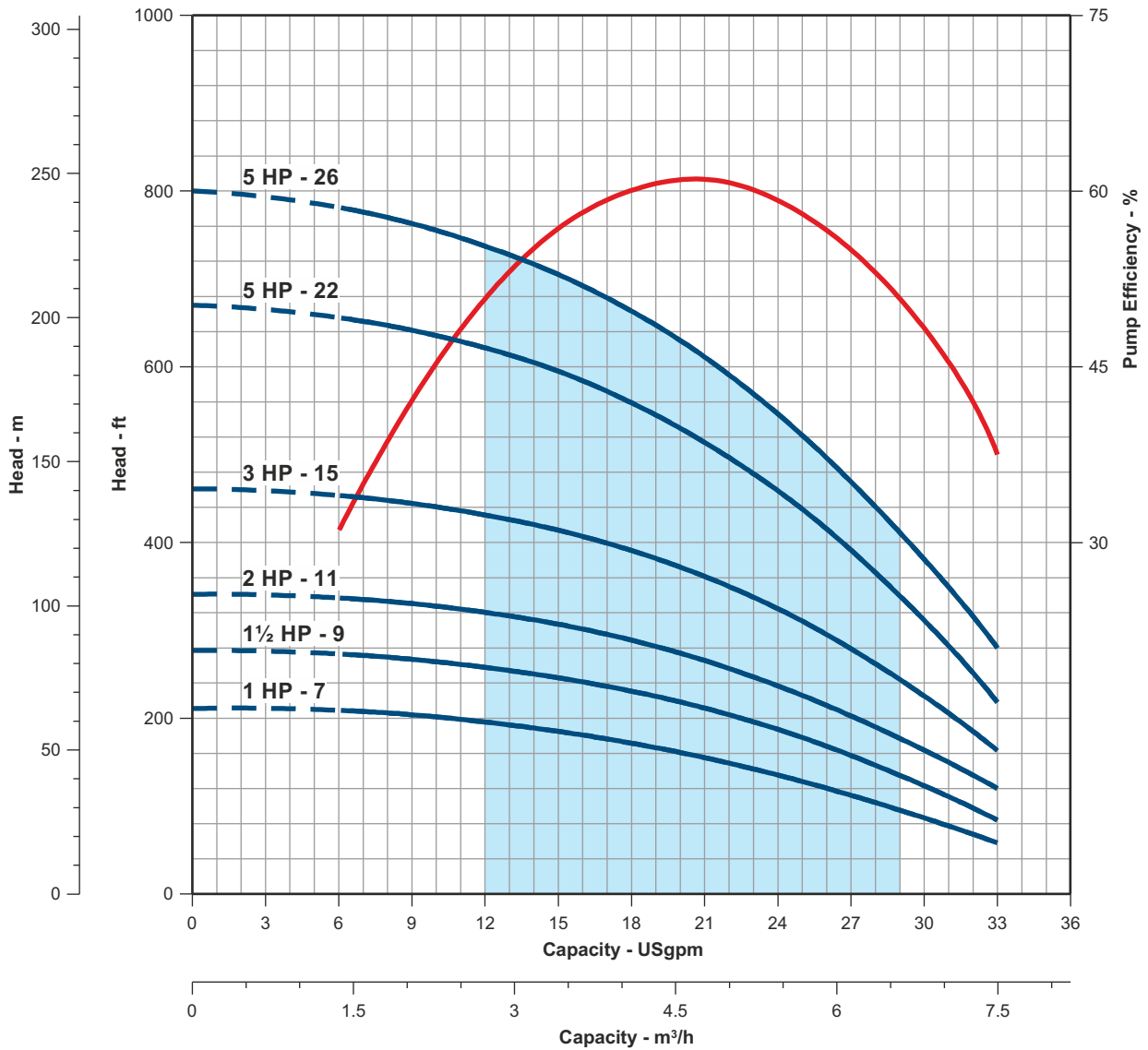
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0025**

**PERFORMANCE CURVE**

**25 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



BEST EFFICIENCY REGION  
 RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

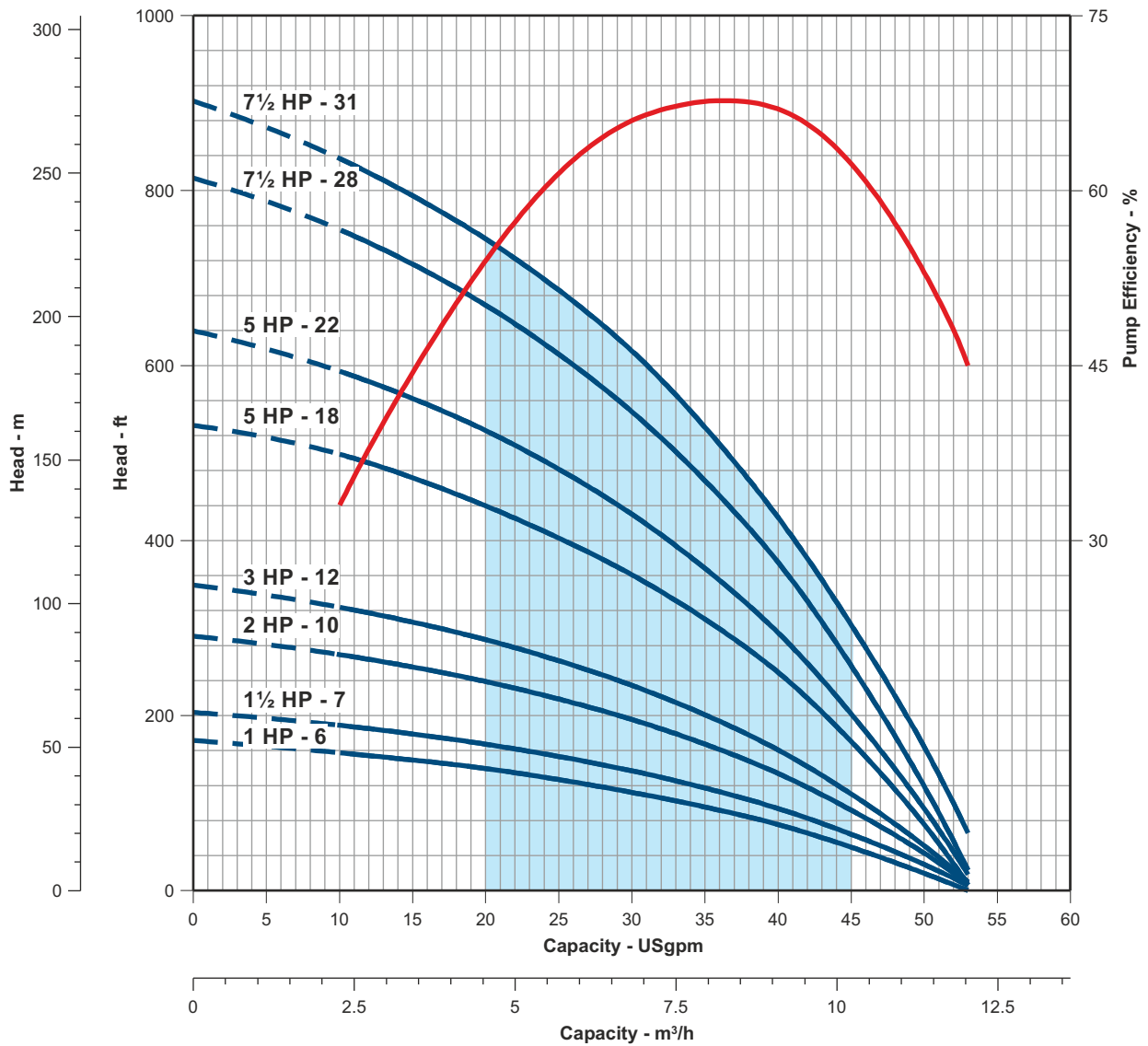
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0033**

**PERFORMANCE CURVE**

**33 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
— RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

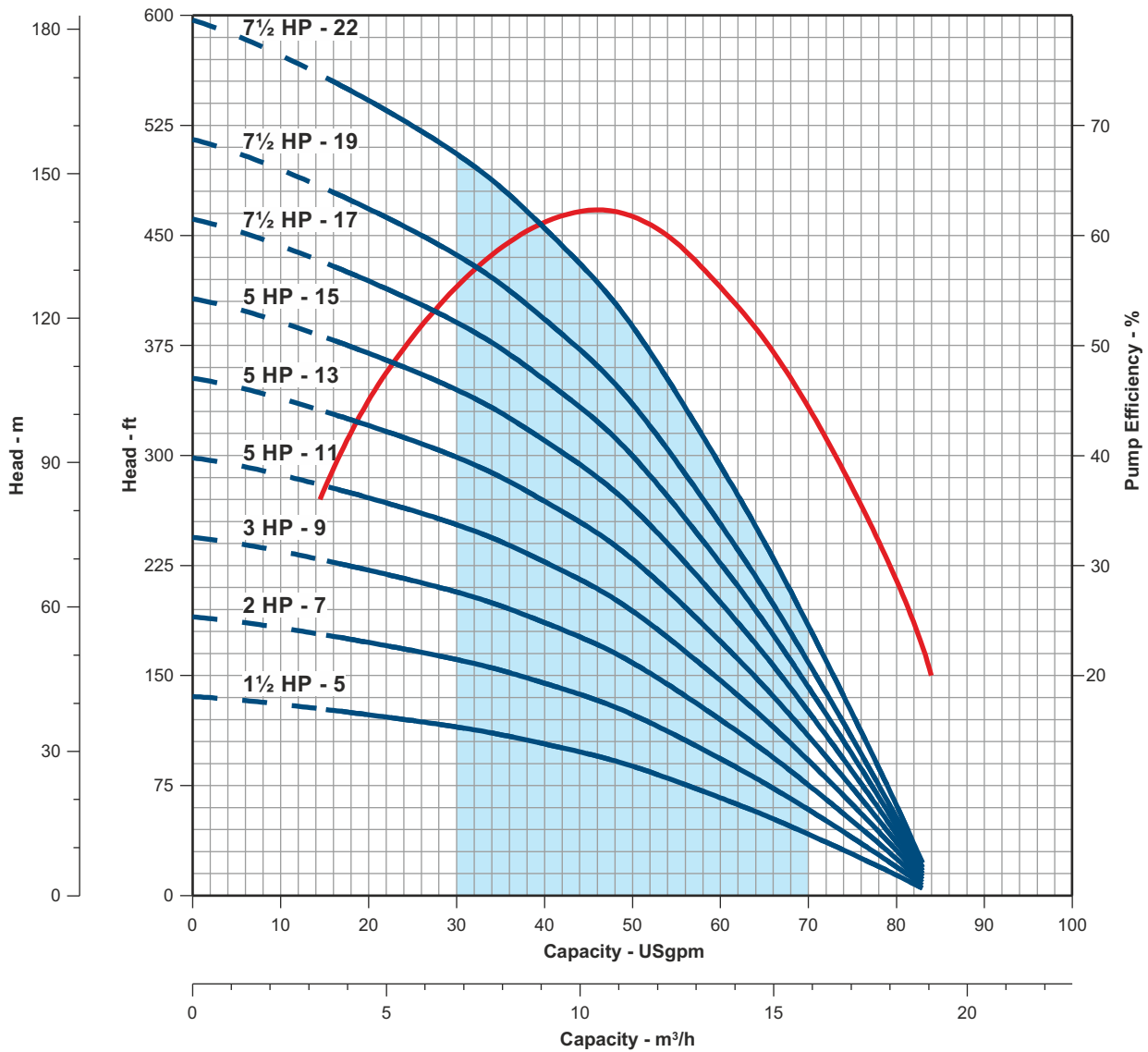
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0055**

**PERFORMANCE CURVE**

**55 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
— RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

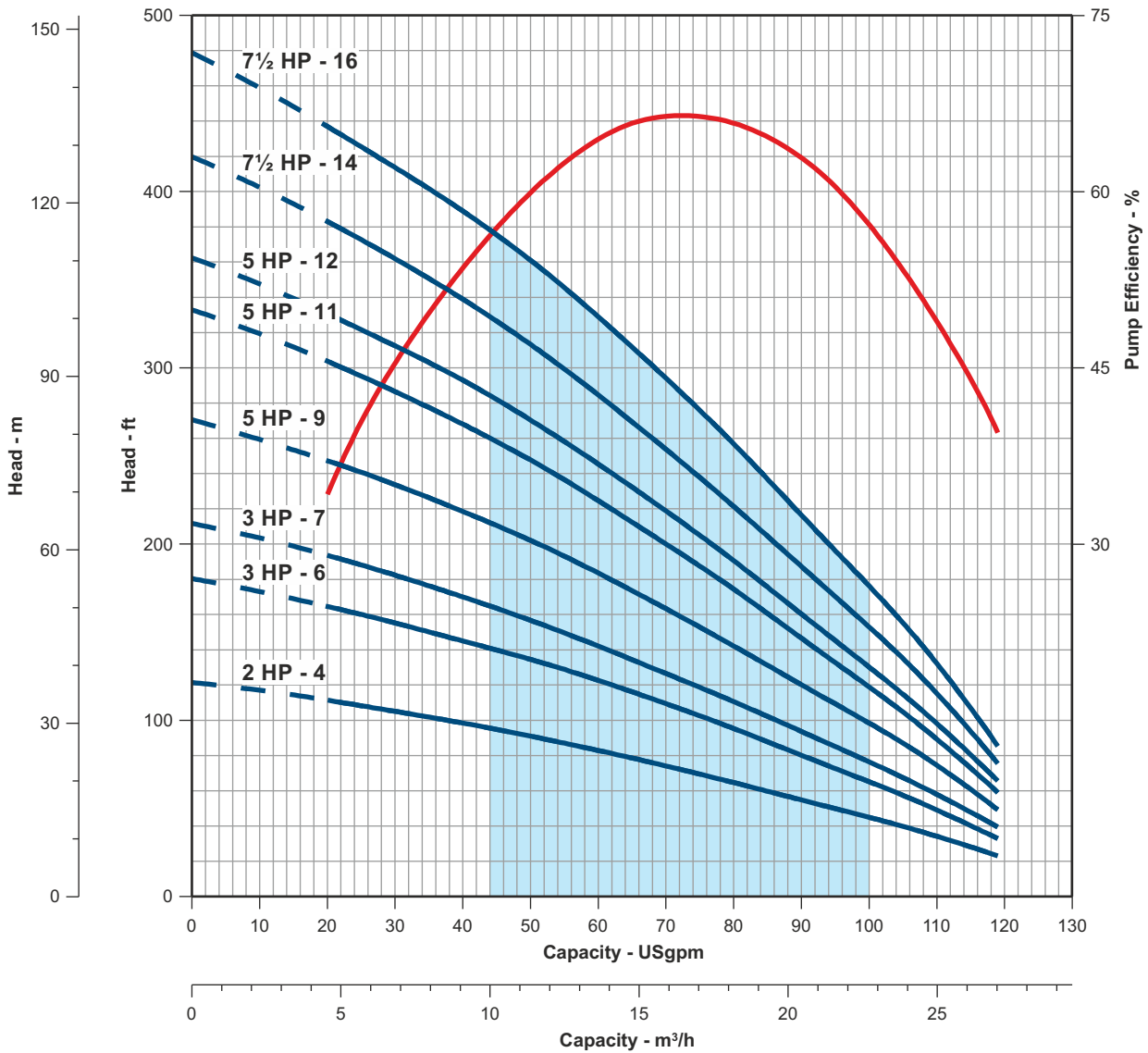
## 4" GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**MODEL NAME: NS-E-0075**

**PERFORMANCE CURVE**

**75 GPM**

Nominal RPM	3450
Curve based on clear water @	68°F



■ BEST EFFICIENCY REGION  
— RECOMMENDED PUMP OPERATING RANGE  
 PERFORMANCE BASED ON TEST ACCEPTANCE - ISO 9906:2012 3B.  
 PERFORMANCES ARE SUBJECT TO PERIODIC CHANGES DUE TO CONTINUOUS IMPROVEMENTS.

## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**DIMENSIONS**

**5 GPM to 75 GPM**

**MODEL NAME: NS-E-0005 PUMP SIZE: 4" 5 GPM**

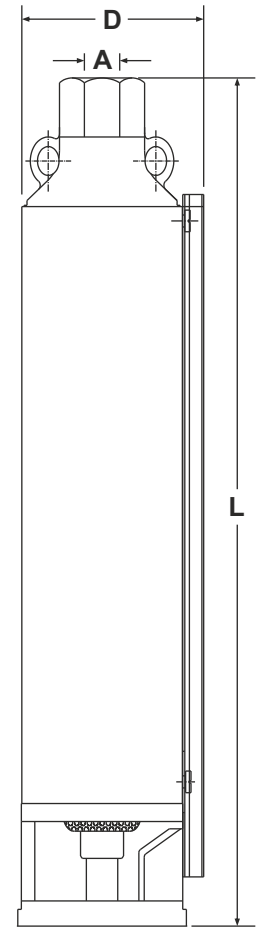
HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1/2	9	4	1¼ NPT	3.94	13.15	18
1/2	11	4	1¼ NPT	3.94	14.54	19
3/4	15	4	1¼ NPT	3.94	17.28	21
1	20	4	1¼ NPT	3.94	21.93	22
1½	26	4	1¼ NPT	3.94	26.06	28
2	31	4	1¼ NPT	3.94	30.34	30

**MODEL NAME: NS-E-0007 PUMP SIZE: 4" 7 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1/2	7	4	1¼ NPT	3.94	11.77	14
1/2	10	4	1¼ NPT	3.94	13.86	15
3/4	13	4	1¼ NPT	3.94	15.91	20
1	17	4	1¼ NPT	3.94	18.66	22
1½	22	4	1¼ NPT	3.94	23.31	24
2	27	4	1¼ NPT	3.94	26.73	28
3	34	4	1¼ NPT	3.94	32.76	32

**MODEL NAME: NS-E-N007 PUMP SIZE: 4" 7 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1/2	11	4	1¼ NPT	3.75	13.31	18
3/4	15	4	1¼ NPT	3.75	15.83	20
1	20	4	1¼ NPT	3.75	18.98	21
1½	25	4	1¼ NPT	3.75	23.31	24





## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**DIMENSIONS**

**5 GPM to 75 GPM**

**MODEL NAME: NS-E-0010 PUMP SIZE: 4" 10 GPM**

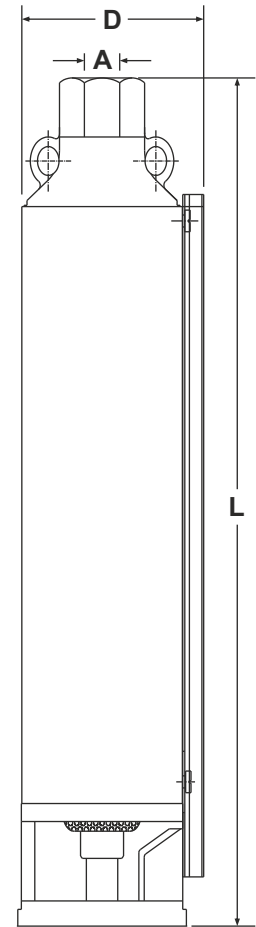
HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1/2	5	4	1¼ NPT	3.94	10.39	10
1/2	7	4	1¼ NPT	3.94	11.77	11
3/4	10	4	1¼ NPT	3.94	13.86	12
1	12	4	1¼ NPT	3.94	15.24	14
1½	17	4	1¼ NPT	3.94	18.66	20
2	20	4	1¼ NPT	3.94	21.93	23
3	27	4	1¼ NPT	3.94	27.91	28
5	35	4	1¼ NPT	3.94	33.43	33
5	42	4	1¼ NPT	3.94	39.45	39

**MODEL NAME: NS-E-N010 PUMP SIZE: 4" 10 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1/2	12	4	1¼ NPT	3.75	14.65	13
3/4	15	4	1¼ NPT	3.75	16.69	16
1	20	4	1¼ NPT	3.75	20.16	22
1½	27	4	1¼ NPT	3.75	26.14	27

**MODEL NAME: NS-E-0013 PUMP SIZE: 4" 13 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1/2	5	4	1¼ NPT	3.94	10.39	11
3/4	7	4	1¼ NPT	3.94	11.77	12
1	10	4	1¼ NPT	3.94	13.86	14
1½	12	4	1¼ NPT	3.94	15.24	15
2	17	4	1¼ NPT	3.94	18.66	21
3	21	4	1¼ NPT	3.94	22.60	23



## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**DIMENSIONS**

**5 GPM to 75 GPM**

**MODEL NAME: NS-E-0018    PUMP SIZE: 4"    18 GPM**

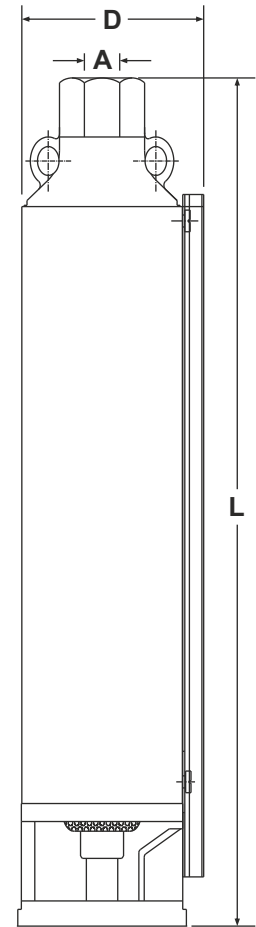
HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
3/4	6	4	1¼ NPT	3.94	12.09	11
1	8	4	1¼ NPT	3.94	13.78	13
1½	11	4	1¼ NPT	3.94	16.34	18
2	14	4	1¼ NPT	3.94	18.90	20
3	19	4	1¼ NPT	3.94	24.33	25
5	24	4	1¼ NPT	3.94	28.58	30
5	30	4	1¼ NPT	3.94	34.84	33

**MODEL NAME: NS-E-0025    PUMP SIZE: 4"    25 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1	7	4	1¼ NPT	3.94	13.50	13
1½	9	4	1¼ NPT	3.94	15.39	15
2	11	4	1¼ NPT	3.94	17.24	18
3	15	4	1¼ NPT	3.94	20.98	22
5	22	4	1¼ NPT	3.94	28.74	28
5	26	4	1¼ NPT	3.94	33.66	31

**MODEL NAME: NS-E-0033    PUMP SIZE: 4"    33 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1	6	4	2 NPT	3.94	14.92	15
1½	7	4	2 NPT	3.94	16.14	17
2	10	4	2 NPT	3.94	19.80	18
3	12	4	2 NPT	3.94	22.24	19
5	18	4	2 NPT	3.94	29.57	23
5	22	4	2 NPT	3.94	35.94	25
7½	28	4	2 NPT	3.94	43.27	30
7½	31	4	2 NPT	3.94	46.93	32



## GLASS REINFORCED THERMOPLASTIC SUBMERSIBLE PUMPS

**PUMP SIZE: 4"**

**DIMENSIONS**

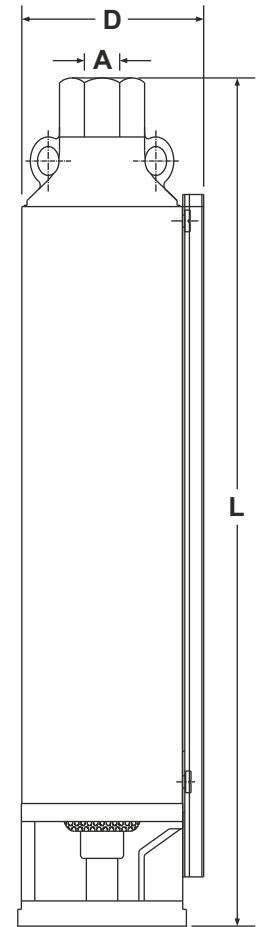
**5 GPM to 75 GPM**

**MODEL NAME: NS-E-0055    PUMP SIZE: 4"    55 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
1½	5	4	2 NPT	3.94	17.83	18
2	7	4	2 NPT	3.94	21.93	20
3	9	4	2 NPT	3.94	26.02	22
5	11	4	2 NPT	3.94	30.12	24
5	13	4	2 NPT	3.94	35.71	26
5	15	4	2 NPT	3.94	39.80	29
7½	17	4	2 NPT	3.94	43.90	31
7½	19	4	2 NPT	3.94	47.99	33
7½	22	4	2 NPT	3.94	54.13	36

**MODEL NAME: NS-E-0075    PUMP SIZE: 4"    75 GPM**

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter across cable guard	L [inch]	WEIGHT [lbs]
2	4	4	2 NPT	3.94	16.81	14
3	6	4	2 NPT	3.94	22.17	18
3	7	4	2 NPT	3.94	24.84	19
5	9	4	2 NPT	3.94	30.20	22
5	11	4	2 NPT	3.94	35.55	25
5	12	4	2 NPT	3.94	38.23	28
7½	14	4	2 NPT	3.94	43.58	31
7½	16	4	2 NPT	3.94	48.94	34









## Limited Warranty for Deep Well Submersible Products

Northam Inc. offers limited Warranty on its Deep Well Submersible Products to be free from any defects in material or workmanship under normal intended use for the period as shown below.

Our Warranty shall not apply to any product that has been;

1. Subjected to misuse or misapplication.
2. Altered or modified without authorization from Northam Inc. or failure to use Northam Original Replacement Parts.
3. Improperly installed or installed with improper controls and protection against power irregularities.
4. Subjected to Dry Run or full Flow Shut Off condition.
5. Operated in liquids other than Potable Water.
6. Operated in liquid temperature higher than 86 degrees Fahrenheit.
7. Pumps which are clogged with mud, sand, gravel or any other foreign material.
8. Damaged due to accidental damage, fire, acts of God, or any other circumstances outside the control of Northam.
9. Repaired by persons who are not authorized by Northam.

This warranty does not cover normal wear and tear of products or parts thereof. It also does not cover change in performance of products due to normal wear and tear.

Northam Inc. shall not be responsible for removing or reinstallation of the products covered under this warranty nor shall be responsible for any charges associated with removal and reinstallation.

Northam Inc.'s obligation under this Warranty is limited to either repair or replace the product at Northam's sole discretion for any product found to Northam's reasonable satisfaction to have been found defective upon examination by Northam. The product shall have to be returned to Northam Inc.'s Clarks Summit facility or any other place that Northam Inc. shall designate within 30 days of failure for evaluation.

Northam is not responsible under this warranty for any cost of shipping or transportation of the product or parts thereof to or from Northam facility or any other place that Northam shall designate for product to be sent for evaluation or repairs.

This warranty is applicable only if the product is received by Northam Inc. without any damage during shipment back to Northam Inc. It does not cover products that are lost or cannot be returned to Northam Inc.

Northam Inc. does not warrant any parts or products that were not manufactured by them. Northam shall extend the warranty provided by the manufacturer of such parts or products under such circumstances.

Northam Inc. shall not cover drop cables, lead wires, control boxes or any accessories under Warranty.

This Warranty applies to products sold only in USA.

Northam Inc. shall not be liable for any consequential, incidental, or contingent damages or loss to persons or property whatsoever. The foregoing warranties are exclusive and in lieu of any written or implied warranties including but not limited to the implied warranties of merchantability or fitness for a particular purpose covering any product manufactured by Northam Inc. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above may not apply to you. Also some states do not allow a limitation on how long an implied warranty will last so the above limitation may not apply to you and during the period of this limited warranty any implied warranties of merchantability or fitness for particular purpose may not be excluded.

### Limited Warranty Period for Deep well Submersible Products

4", 6", 8", 10 " Submersible Pumps or Motors or Complete Units.

Northam shall offer Limited warranty of above mentioned products for a period of 12 months from the date of installation or 18 months from the date of dispatch from Northam Inc. whichever comes first. The warranty shall cover only mechanical defects in material and workmanship.

### Warranty Service

For products purchased directly from Northam kindly e mail to [service@northam-inc.com](mailto:service@northam-inc.com) with the following information. For Northam products purchased from our Authorised Dealers/Distributors kindly contact them directly with the following information.

1. Invoice number.
2. Date of purchase.
3. Product Type or Model number available on the name plate.
4. Product Serial number from the nameplate
5. Description of Defect with the product.
6. Your contact telephone number and address.

Once Northam will receive the above information, they shall promptly provide by return email a "Return Authorisation Form" and address to which the product shall be shipped by customer for evaluation of manufacturing defect by Northam. The customer shall then ship the product, freight prepaid to the address indicated, together with a Return Authorisation Form obtained from Northam. Unauthorised Returns and products sent without prepaid freight will not be accepted by Northam.

Once Product is received at Northam it shall be evaluated by Technical Service at Northam for any manufacturing defect and the customer shall be notified of the final outcome and any corrections that Northam shall be initiating if a manufacturing defect is found. Once a repaired or replacement product is ready it shall be shipped to the customer with freight charges to be paid by the customer.



**Northam Inc.**

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