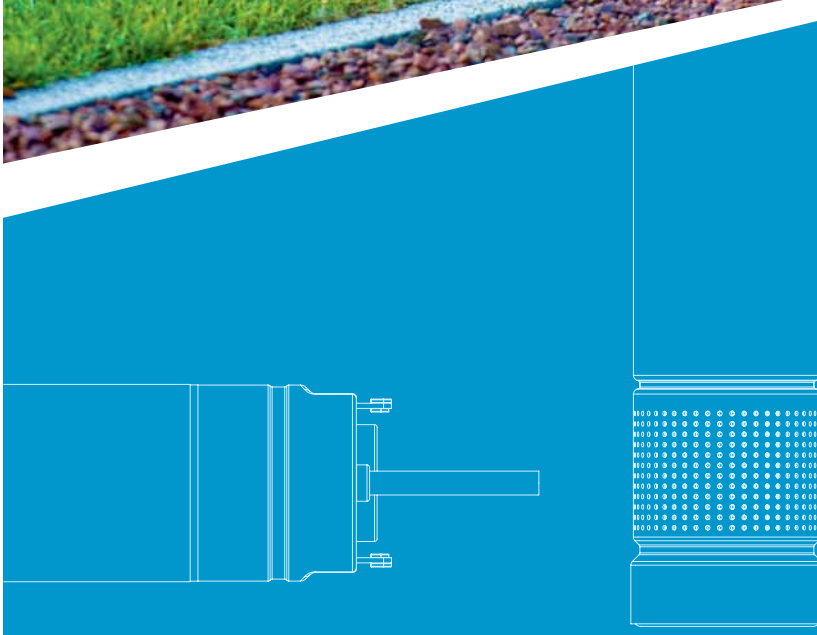
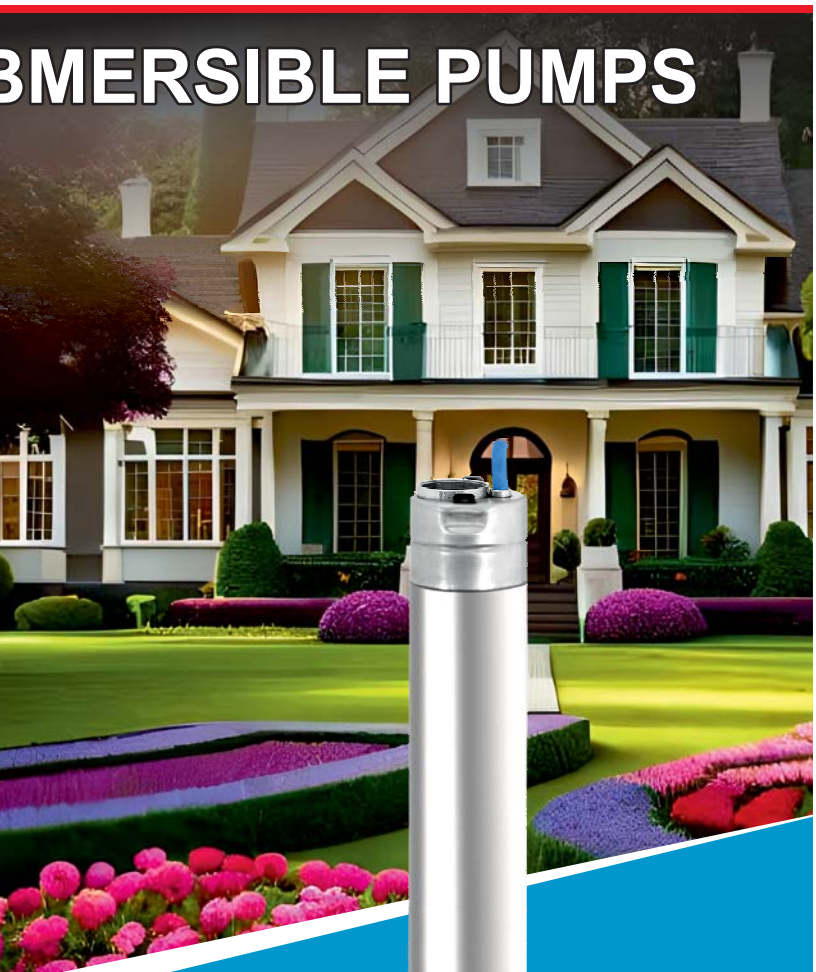
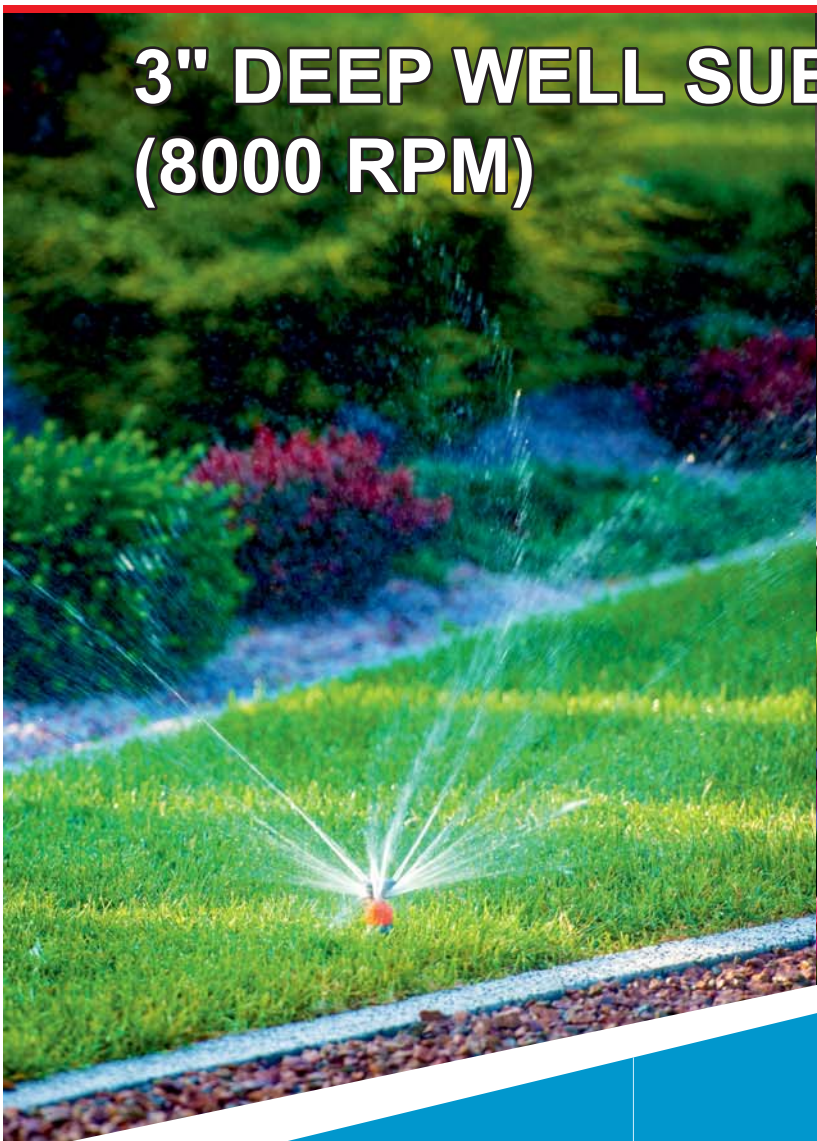


NS-H SERIES



3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)



50/60Hz

PRODUCT CATALOGUE

www.northam-inc.com

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3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

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3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

PUMP SIZE: 3"

GENERAL DATA

5 GPM to 40 GPM

FEATURES

- ▶ Ultra-high energy efficiency permanent magnet motor with built in frequency converter.
- ▶ Motor speed of 8000RPM provides higher performance from a small diameter pump with low number of stages.
- ▶ Extra light weight and slim pump for 3" deep well as well as for restricted diameter 4" deep wells.
- ▶ Smaller size of 3" deep wells considerably saves on time in drilling and overall cost of installation.
- ▶ Soft start Operation reduces starting current and offers a smooth start up increasing reliability and life of the pump.
- ▶ Wide voltage range of 140-280V, for 60 Hz or 50 Hz power supply.
- ▶ Built in Over voltage, Under voltage, Overload, Over temperature and Dry running protection.
- ▶ Good resistance against sand erosion due to special impeller material.
- ▶ Motor design is shielded without mechanical seal, providing long, maintenance free life.
- ▶ Force convection water cooling on the outside motor surface from the pumped water.
- ▶ Suitable for temperatures up to 55°C.

APPLICATIONS

- ▶ Residential
- ▶ Small Irrigation

OPERATING RANGE & CONDITIONS

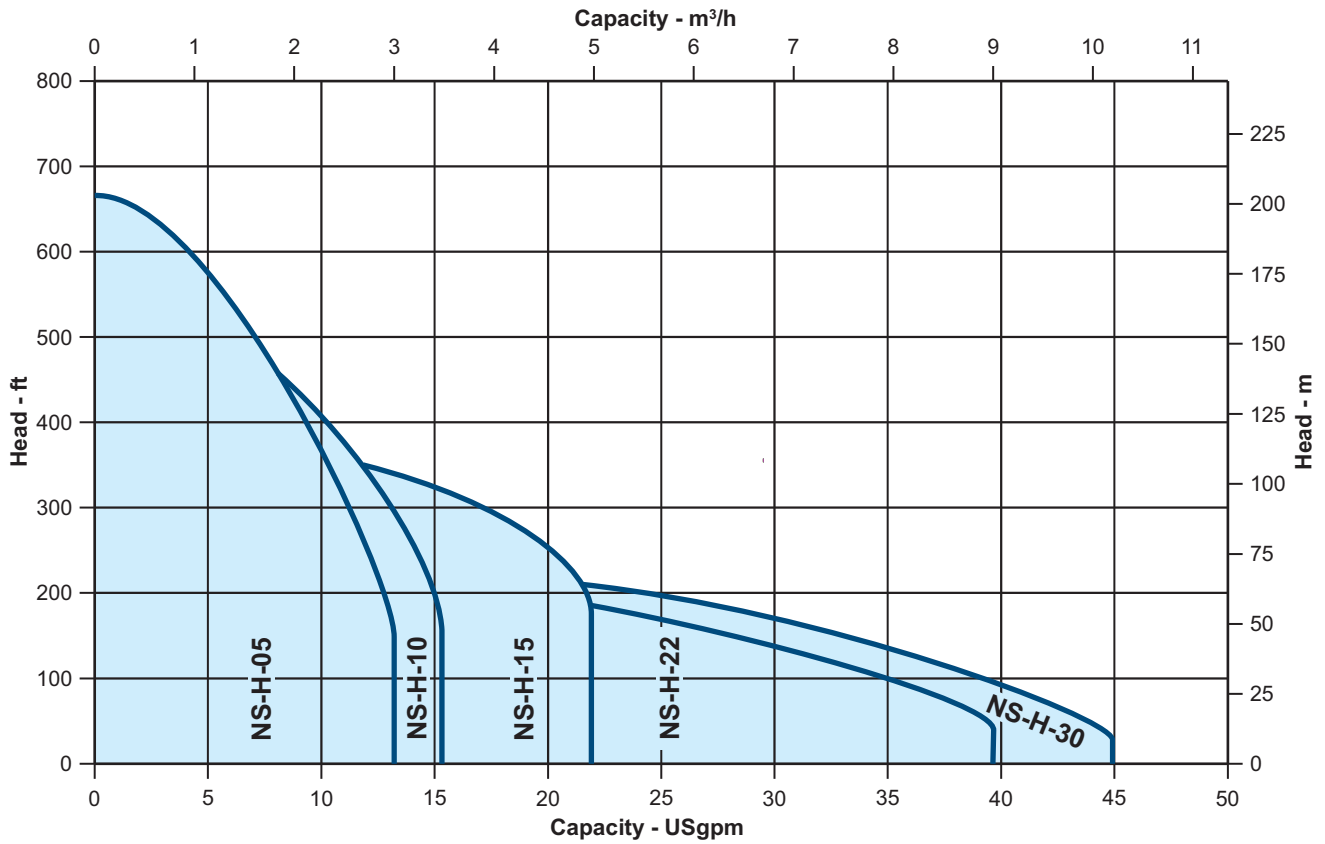
Flow upto	40 Usgpm
Head upto	650 feet
HP range	1 and 2 HP
Maximum Liquid Temp	86°F
Delivery Connection	1-1/4" NPT and 1-1/2" NPT Threaded

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

PUMP SIZE: 3"

PERFORMANCE RANGE

5 GPM to 30 GPM



Pump Size	Model Name	Rated Flow
3" PUMP	NS-H-05	5 GPM
3" PUMP	NS-H-10	10 GPM
3" PUMP	NS-H-15	15 GPM
3" PUMP	NS-H-22	22 GPM
3" PUMP	NS-H-30	30 GPM

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

PUMP SIZE: 3"
MODEL CODE
5 GPM to 30 GPM

NS
H
05
02
3
A

Discharge size NPT

Code	Size
A	1 1/4"
B	1 1/2"

Pump size

Code	Size
3	3"

Number of stages

Rated flow (GPM)

Code	GPM
05	5 GPM
10	10 GPM
15	15 GPM
22	22 GPM
30	30 GPM

Pump type

Code	Type
H	High speed pump n = 8000 r/min

Series name

Code	Series
NS	Submersible pump

Example:

NS-H-05-02-3-A = Submersible pump, High speed pump n = 8000 rpm, 5 GPM, 2 stages, 3" Pump, 1 1/4" Discharge size.

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

PUMP SIZE: 3"

ORDER INFORMATION

5 GPM to 30 GPM

GPM	STAGES	MOTOR JOINING SIZE	ORDER NO. / MODEL CODE
5	02	3"	NS-H-05-02-3-A
	03	3"	NS-H-05-03-3-A
	04	3"	NS-H-05-04-3-A
	05	3"	NS-H-05-05-3-A
	06	3"	NS-H-05-06-3-A
	07	3"	NS-H-05-07-3-A
	08	3"	NS-H-05-08-3-A
10	02	3"	NS-H-10-02-3-A
	03	3"	NS-H-10-03-3-A
	04	3"	NS-H-10-04-3-A
	05	3"	NS-H-10-05-3-A
	06	3"	NS-H-10-06-3-A
	07	3"	NS-H-10-07-3-A
15	02	3"	NS-H-15-02-3-A
	03	3"	NS-H-15-03-3-A
	04	3"	NS-H-15-04-3-A
	05	3"	NS-H-15-05-3-A
	06	3"	NS-H-15-06-3-A
22	01	3"	NS-H-22-01-3-B
	02	3"	NS-H-22-02-3-B
	03	3"	NS-H-22-03-3-B
	04	3"	NS-H-22-04-3-B
30	01	3"	NS-H-30-01-3-B
	02	3"	NS-H-30-02-3-B
	03	3"	NS-H-30-03-3-B
	04	3"	NS-H-30-04-3-B

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-15	SELECTION CHART	15 GPM
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RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	Amps	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							
1	2	5.5	0				19.7	16.0	10.6																							
			20	21.7	18.8	15.0	8.0																									
			30	18.3	14.0																											
			40	13.3																												
			50																													
			60																													
Shut-off PSI				49	40	32	23	14	6																							
1	3	6.5	0				21.8	19.5	17.2	14.5	11.5	7.5																				
			20		21.2	19.0	16.5	13.5	10.0	6.1																						
			30	20.9	18.5	16.0	13.0	9.7	5.8																							
			40	18.2	15.5	12.5	9.0																									
			50	15.0	12.0	8.4																										
			60	11.5	7.8																											
Shut-off PSI				84	76	67	58	50	41	32	24	15	6																			
2	4	10	0								20.6	19.2	17.5	15.9	14.0	11.4	5.8															
			20					21.6	20.2	18.6	17.0	15.3	13.3	10.5																		
			30					21.5	20.0	18.5	16.8	15.0	12.9	10.0																		
			40					21.2	19.8	18.2	16.5	14.7	12.5	9.0																		
			50					20.9	19.6	17.9	16.2	14.4	12.2	8.0																		
			60	20.7	19.4	17.6	16.0	13.9	11.7	7.0																						
Shut-off PSI				116	107	98	90	81	72	64	55	46	38	29	20	12	3															
2	5	12	0									21.5	20.7	19.9	19.0	18.0	16.9	15.5	7.5													
			20									21.2	20.5	19.7	18.8	17.8	16.5	15.0	12.5	8.5												
			30									21.2	20.4	19.5	18.6	17.6	16.4	14.6	12.0	7.2												
			40									21.7	21.0	20.3	19.4	18.5	17.4	16.1	14.4	11.7	6.5											
			50									21.6	20.9	20.1	19.2	18.3	17.2	15.9	13.9	11.2												
			60									21.4	20.7	20.0	19.1	18.2	17.0	15.6	13.6	10.5												
Shut-off PSI					140	131	122	114	105	96	88	79	70	62	53	44	36	27	5													
2	6	13	0													21.4	20.2	18.8	17.3	12.0												
			20														21.0	19.8	18.4	16.8	15.0	12.4										
			30														20.8	19.6	18.1	16.5	14.5	12.0	8.3									
			40														21.7	20.5	19.4	17.8	16.4	14.1	11.5	7.3								
			50														21.5	20.6	19.2	17.6	16.0	13.8	11.0	7.2								
			60														21.5	20.2	19.0	17.5	15.8	13.4	10.4	6.0								
Shut-off PSI																128	119	111	102	93	85	76	67	59	50	41	20					

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

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-22 SELECTION CHART 22 GPM

RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	Amps	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		
1	1	3.5	0	35.0	24.0																						
			20																								
			30																								
			40																								
			50																								
			60																								
Shut-off PSI			17	8																							
1	2	5.5	0	36.8	32.8	28.0	21.0																				
			20	31.5	26.2	18.0																					
			30	25.0	16.0																						
			40	15.0																							
			50																								
			60																								
Shut-off PSI			44	35	27	18	9																				
2	3	9.5	0	39.1	36.5	33.5	30.5	26.6	22.5	16.8																	
			20	35.5	32.7	29.4	25.5	20.5	15.0																		
			30	32.0	28.8	25.0	19.8	13.8																			
			40	28.0	24.0	19.0	13.0																				
			50	23.5	18.4	11.5																					
			60	17.5																							
Shut-off PSI			73	64	56	47	38	30	21	12																	
2	4	12	0			37.0	34.5	32.2	29.5	26.5	23.2	19.0	14.5														
			20			34.0	31.5	28.5	25.5	21.6	17.6	13.0															
			30		33.5	31.0	28.0	25.0	21.0	17.0	12.0																
			40	33.0	30.5	27.6	24.5	20.6	16.2	11.0																	
			50	30.0	27.5	24.0	20.0	15.5	10.2																		
			60	26.8	23.5	19.3	14.8																				
Shut-off PSI			103	94	86	77	68	60	51	42	34	25	16														

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

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-30	SELECTION CHART	30 GPM
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RATINGS ARE IN GALLONS PER MINUTE (GPM)

HP	Stage	Amps	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		
1	1	4	0	39.0	27.0																						
			20																								
			30																								
			40																								
			50																								
			60																								
Shut-off PSI			17	8																							
1	2	7.5	0	44.2	40.5	35.5	29.2	20.5																			
			20	33.6	27.5	17.0																					
			30	26.2	15.0																						
			40																								
			50																								
			60																								
Shut-off PSI			41	32	24	15	6																				
2	3	11	0		43.8	40.9	37.5	34.0	30.2	25.7	19.0																
			20	39.9	36.7	33.0	29.0	24.0	16.0																		
			30	36.0	32.5	28.5	23.0	14.0																			
			40	32.0	27.6	22.0	12.0																				
			50	27.0	20.8																						
			60	19.5																							
Shut-off PSI			70	61	52	44	35	26	18	9																	
2	4	15	0			43.2	41.5	39.5	37.0	34.0	31.4	28.0	23.8	18.2													
			20	42.8	40.8	38.5	36.0	33.2	30.5	27.0	22.2	16.0															
			30	40.5	38.3	35.5	33.0	29.8	26.2	21.3	15.0																
			40	37.8	35.2	32.5	29.3	25.7	20.5	13.8																	
			50	35.0	32.0	29.0	25.0	19.5	11.7																		
			60	31.5	28.3	24.2	18.6	10.4																			
Shut-off PSI			98	89	81	72	63	55	46	37	29	20	11														

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

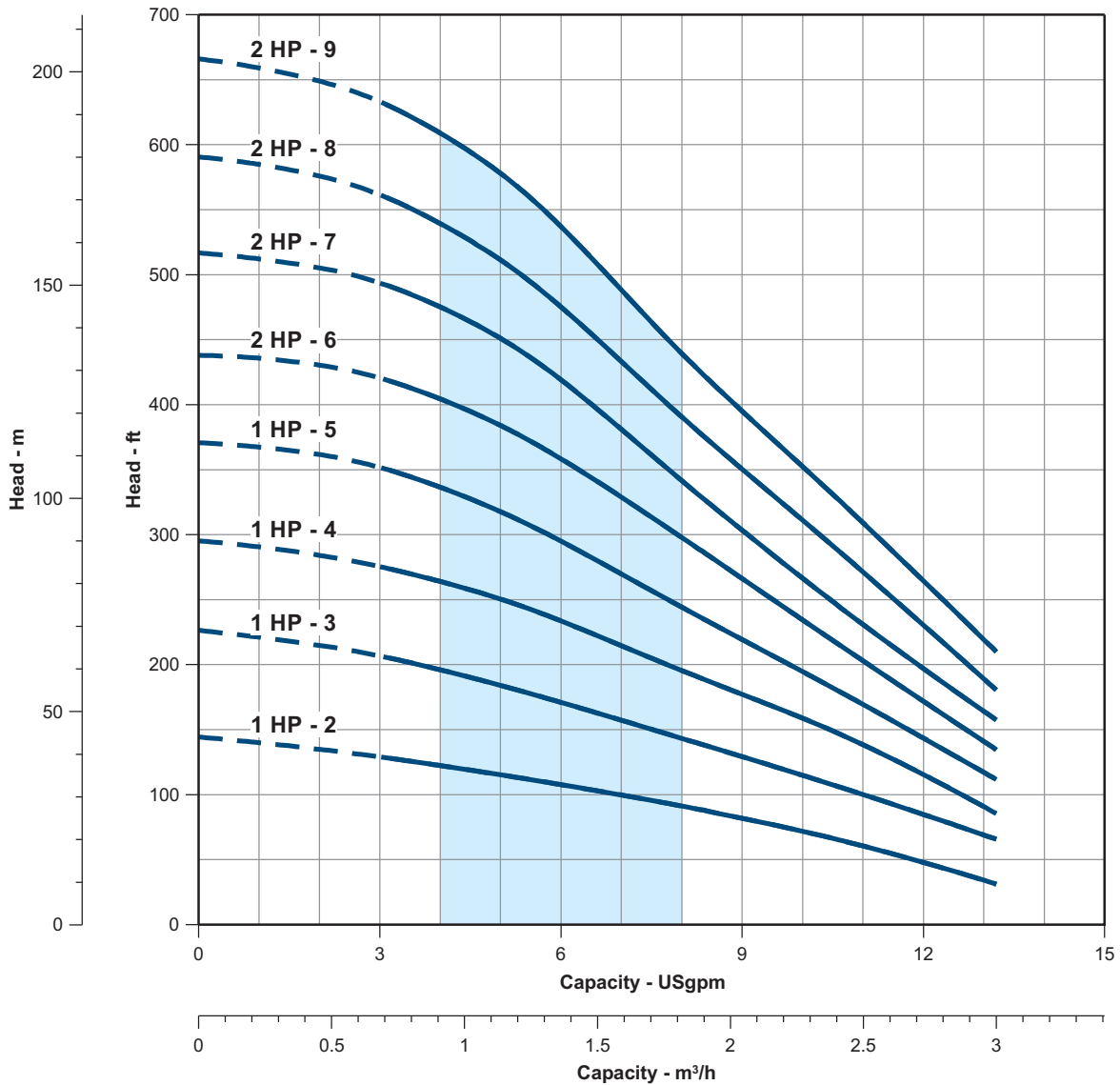
3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-05

PERFORMANCE CURVE

5 GPM

Nominal RPM	8000
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.

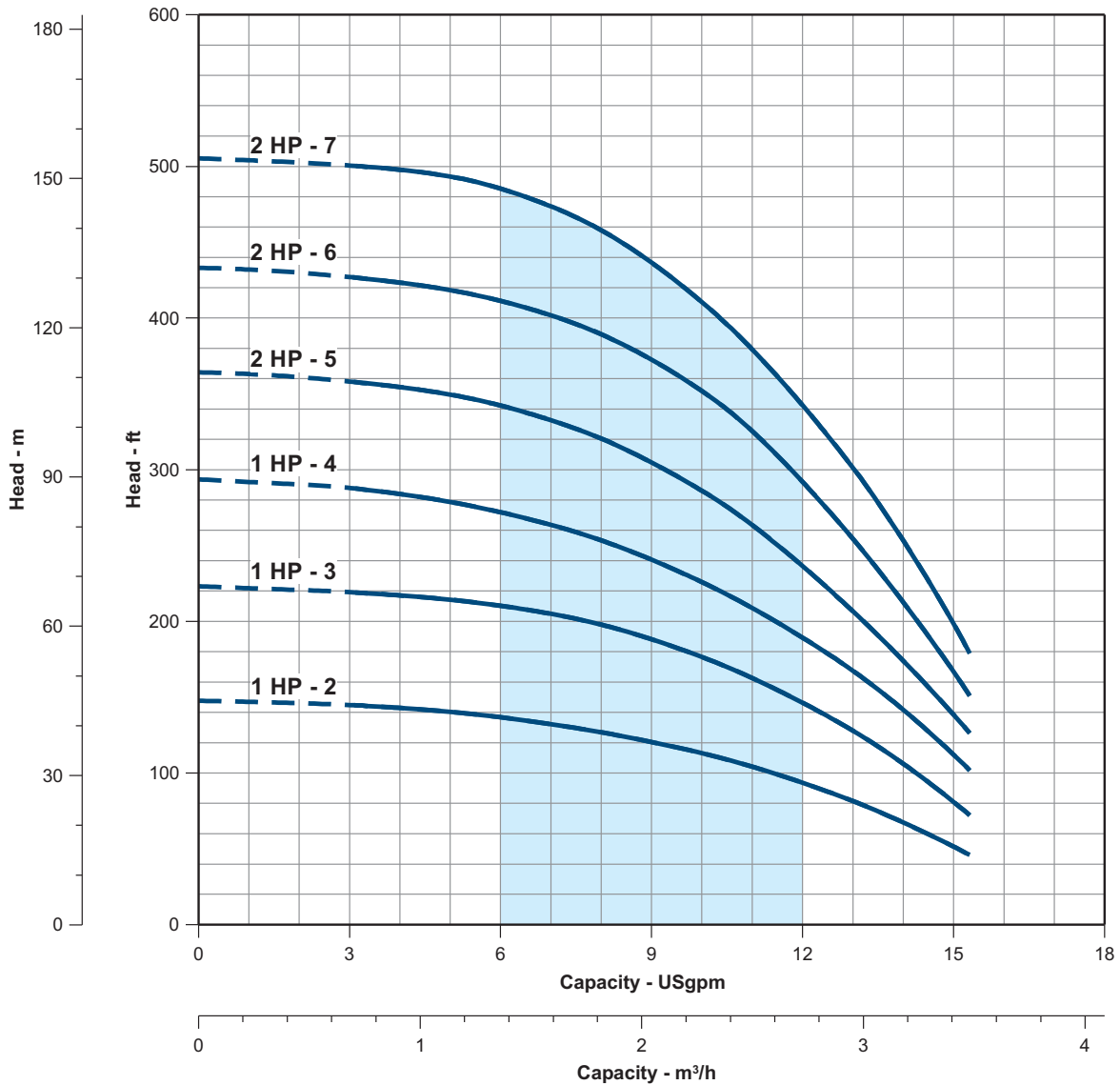
3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-10

PERFORMANCE CURVE

10 GPM

Nominal RPM	8000
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.

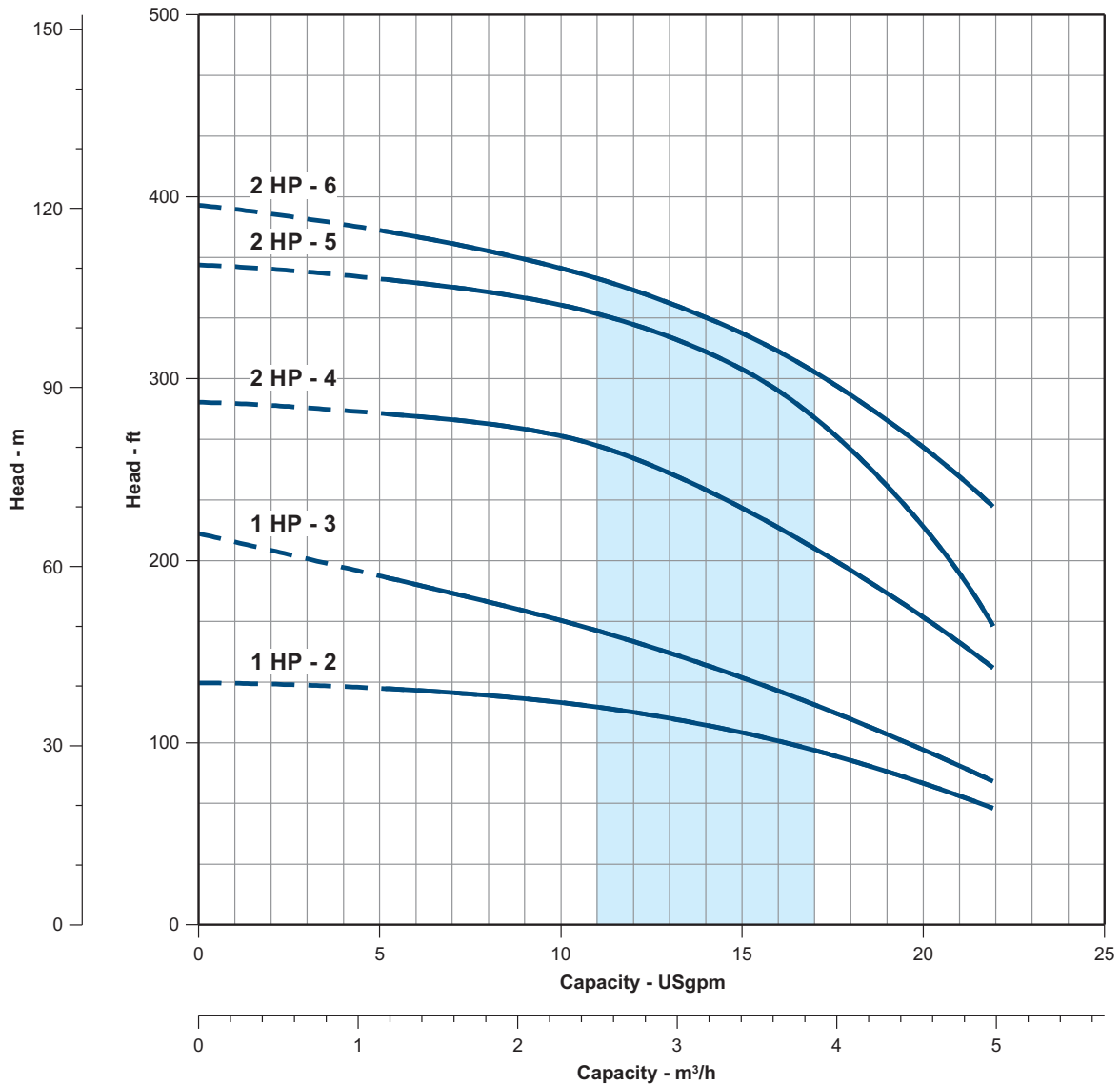
3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-15

PERFORMANCE CURVE

15 GPM

Nominal RPM	8000
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.

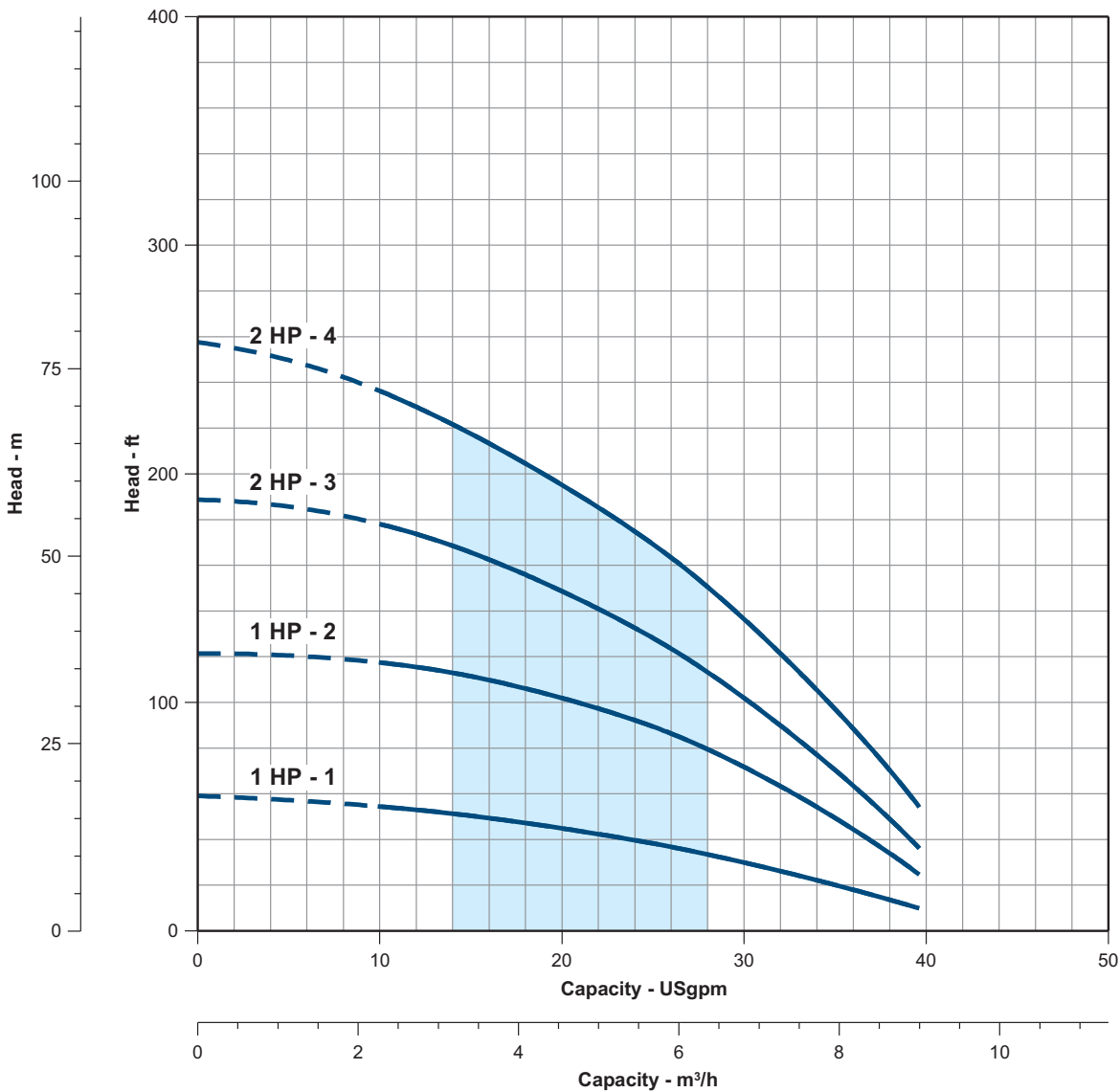
3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-22

PERFORMANCE CURVE

22 GPM

Nominal RPM	8000
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.

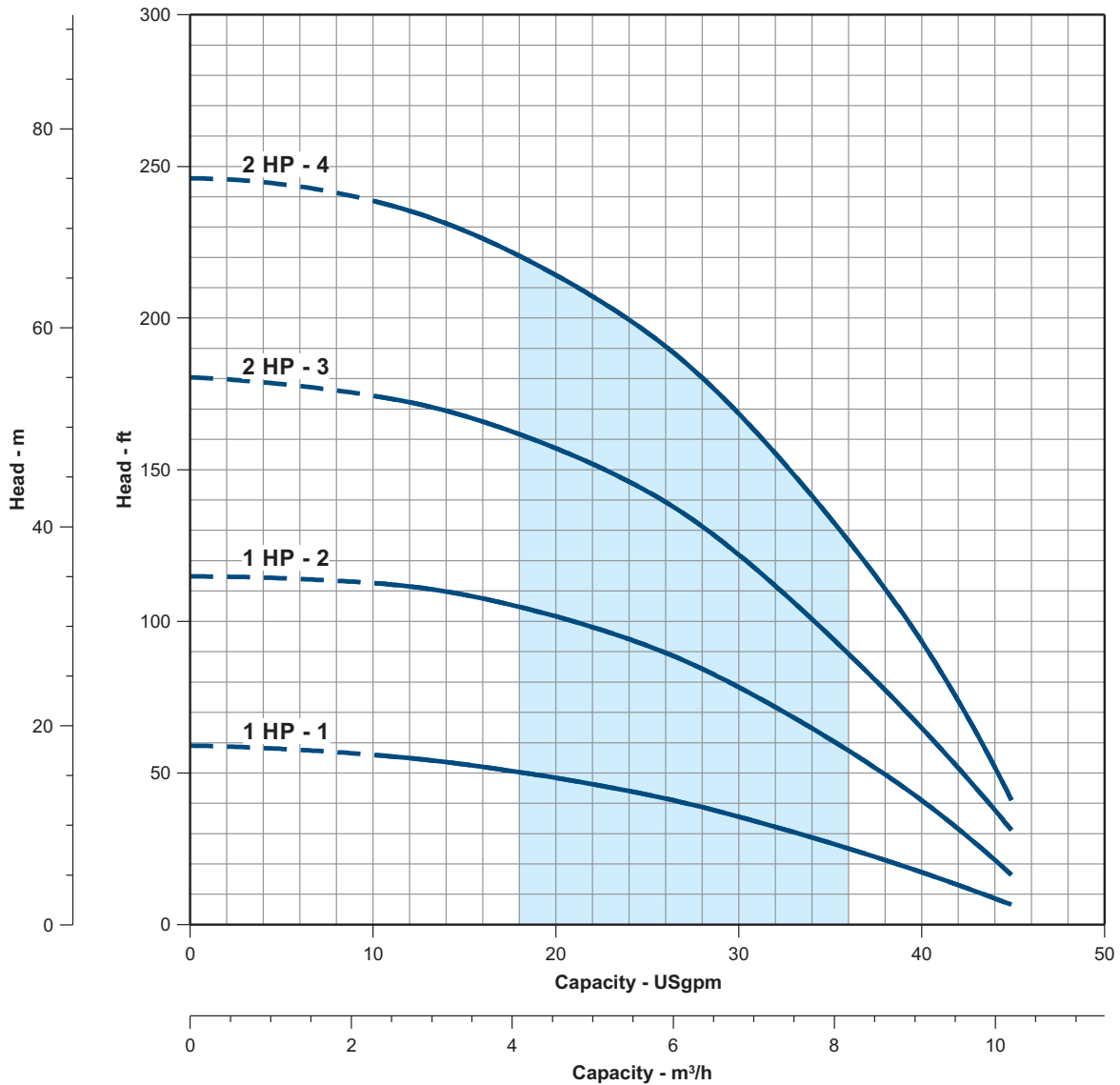
3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

MODEL NAME: NS-H-30

PERFORMANCE CURVE

30 GPM

Nominal RPM	8000
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.

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

PUMP SIZE: 3"

DIMENSIONS

5 GPM to 30 GPM

MODEL NAME: NS-H-05

5 GPM

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter	L [inch]	WEIGHT [lbs]
1	2	3	1¼ NPT	3.00	27.17	13
1	3	3	1¼ NPT	3.00	28.15	14
1	4	3	1¼ NPT	3.00	29.13	14
1	5	3	1¼ NPT	3.00	30.12	14
2	6	3	1¼ NPT	3.00	32.09	15
2	7	3	1¼ NPT	3.00	33.07	15
2	8	3	1¼ NPT	3.00	34.06	15
2	9	3	1¼ NPT	3.00	35.04	16

MODEL NAME: NS-H-10

10 GPM

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter	L [inch]	WEIGHT [lbs]
1	2	3	1¼ NPT	3.00	27.17	13
1	3	3	1¼ NPT	3.00	28.15	14
1	4	3	1¼ NPT	3.00	29.13	14
2	5	3	1¼ NPT	3.00	30.71	15
2	6	3	1¼ NPT	3.00	32.09	15
2	7	3	1¼ NPT	3.00	33.07	15

MODEL NAME: NS-H-15

15 GPM

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter	L [inch]	WEIGHT [lbs]
1	2	3	1¼ NPT	3.00	27.36	13
1	3	3	1¼ NPT	3.00	28.54	14
2	4	3	1¼ NPT	3.00	30.31	15
2	5	3	1¼ NPT	3.00	31.50	15
2	6	3	1¼ NPT	3.00	32.68	15

MODEL NAME: NS-H-22

22 GPM

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter	L [inch]	WEIGHT [lbs]
1	1	3	1½ NPT	3.00	26.77	13
1	2	3	1½ NPT	3.00	28.35	13
2	3	3	1½ NPT	3.00	29.92	14
2	4	3	1½ NPT	3.00	32.09	14

MODEL NAME: NS-H-30

30 GPM

HP	STAGES	MOTOR SIZE [inch]	A [inch]	D [inch] Max. diameter	L [inch]	WEIGHT [lbs]
1	1	3	1½ NPT	3.00	26.77	13
1	2	3	1½ NPT	3.00	28.35	13
2	3	3	1½ NPT	3.00	30.51	14
2	4	3	1½ NPT	3.00	32.51	14

3" DEEP WELL SUBMERSIBLE PUMPS (8000 RPM)

1 HP to 2 HP TECHNICAL DATA 5 GPM to 30 GPM

TANK SIZING

CUT-IN / CUT-OUT psi	NSH-05	NSH-10	NSH-15	NSH-22	NSH-30
	5 GPM	10 GPM	15 GPM	22 GPM	30 GPM
	TANK SIZE IN GPM				
20/40	4	10	14	14	20
30/50	4	10	14	20	20
40/60	4	10	14	20	-
50/70	4	14	14	20	-
60/80	4	14	14	20	-

CABLE SIZING

HP	VOLTS	AMPS	PHASE		CABLE SIZE [AWG]						
					14	12	10	8	6	4	2
1	230	11.2	1	MAXIMUM CABLE LENGTH [FEET]	311	494	735	1205	1881	2836	3821
2	230	19.6	1		178	282	420	689	1075	1621	2184

ABOVE CABLE LENGTH CALCULATION ARE BASED ON 230V, IT MAY VARY FOR 115V.



Northam Inc.

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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.