



The Advance® 1000 design provides evenly balanced delivery of flow and pressure.

- Resin options enable this strong, durable, versatile unit to cover a broad range of fluid applications.
- The patented Impenatra® Seal properly handles challenging applications at a fraction of the cost of exotic alloys, by preventing fluids contact with metal parts.
- Ideal hydraulic coverage allows the Advance® 1000 to meet requirements where larger pumps are typically specified.

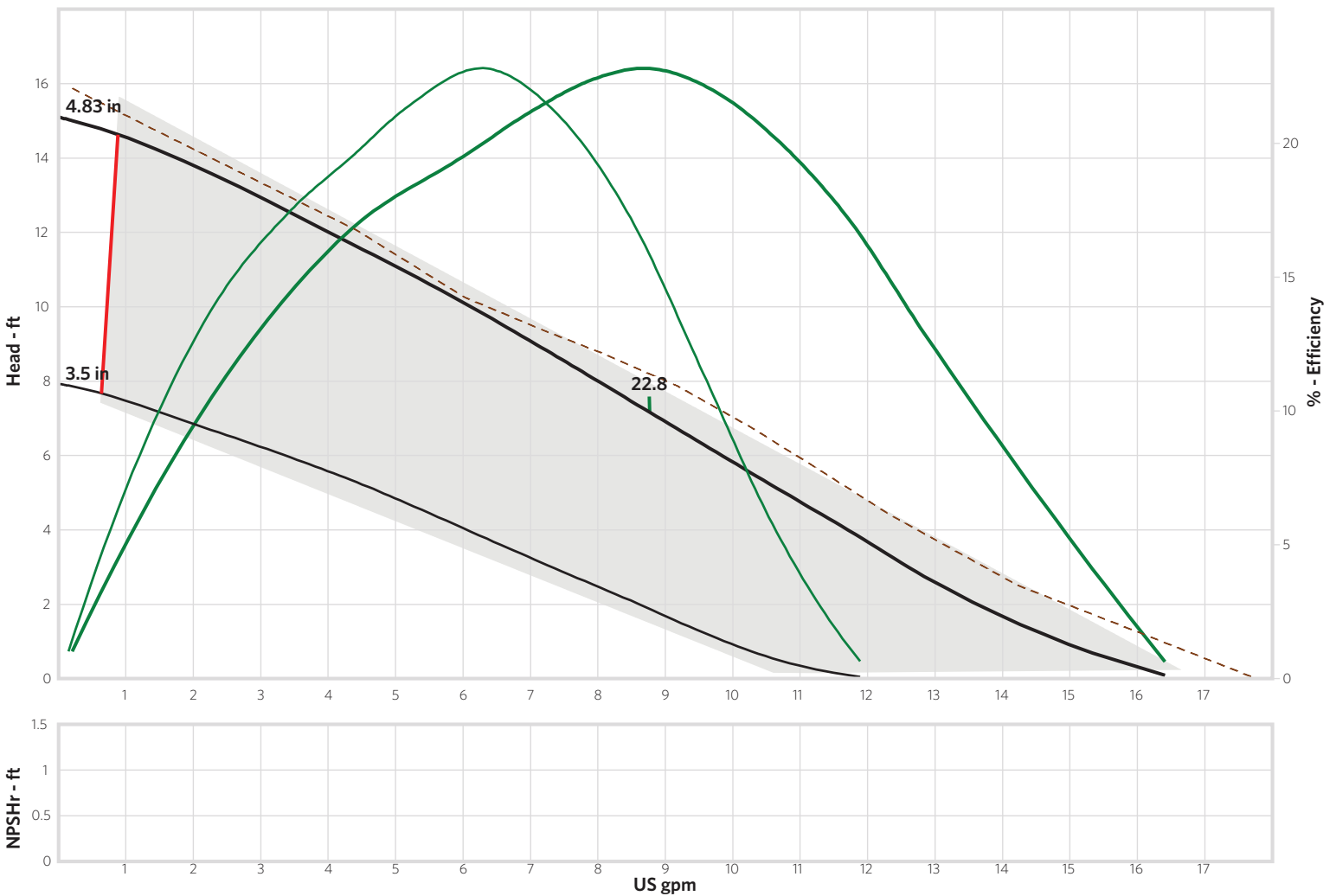
Performance Envelope

- 16.5 GPM
- 15' Head

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.051



Pump:

Size: 051
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011212-4
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.83 in
 Impeller: 1000.051
 Ns: 982
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.08 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.105 in
 Power: ---
 Eye area: ---

---- Data Point ----

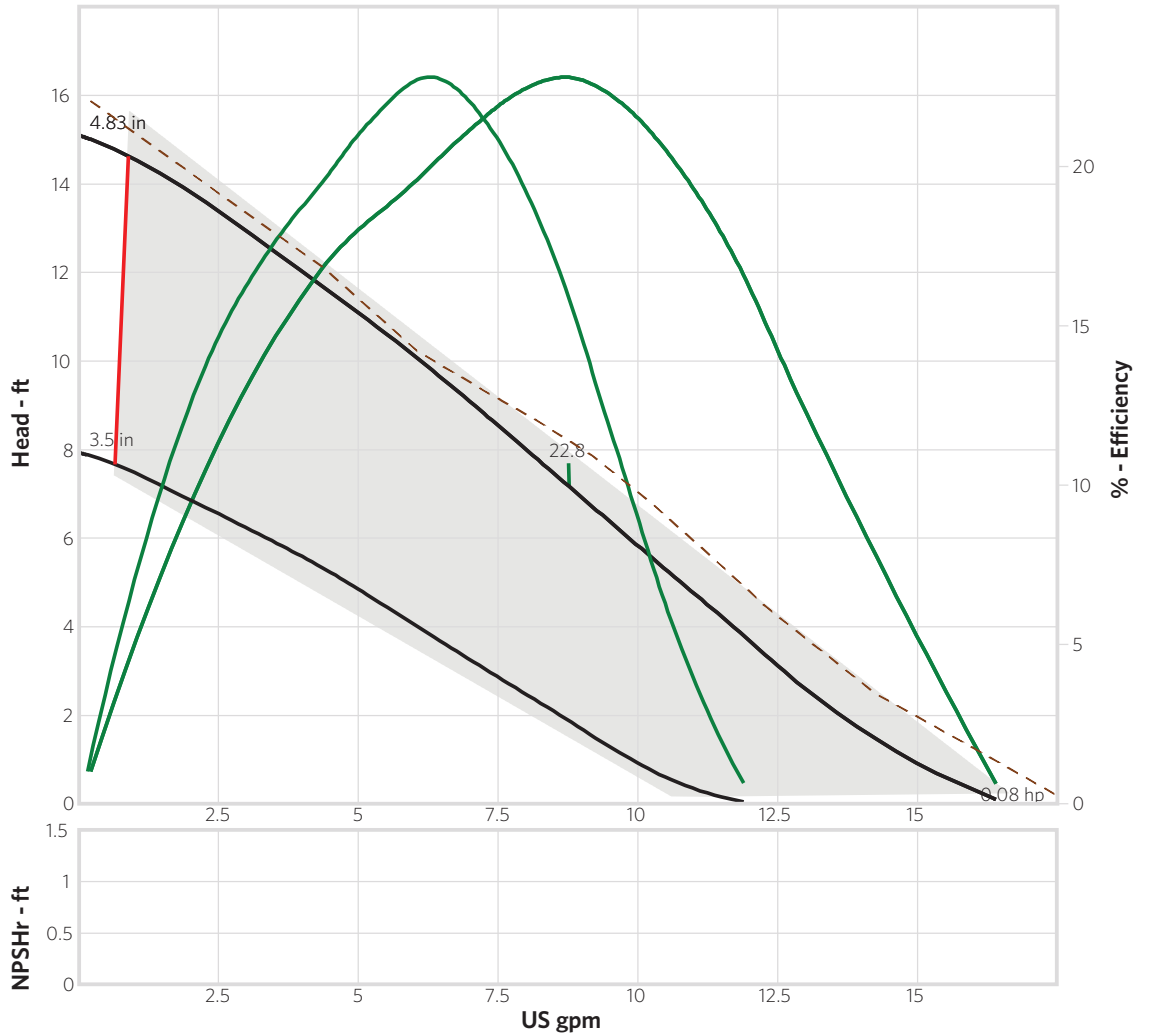
Flow: 8.76 US gpm
 Head: 7.17 ft
 Eff: 22.8%
 Power: 0.0696 hp
 NPSHr: ---

---- Design Curve ----

Shutoff head: 15.1 ft
 Shutoff dP: 6.54 psi
 Min flow: 0.876 US gpm
 BEP: 22.8% @ 8.76 US gpm
 NOL power:
 0.0786 hp @ 5.99 US gpm

-- Max Curve --

Max power:
 0.0786 hp @ 5.99 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
15.7	1750	0.62	3	0.0656	---
13.1	1750	2.56	12	0.0689	---
10.5	1750	5.28	20.4	0.0684	---
7.86	1750	8.15	22.3	0.0725	---
5.24	1750	10.8	18.3	0.0775	---



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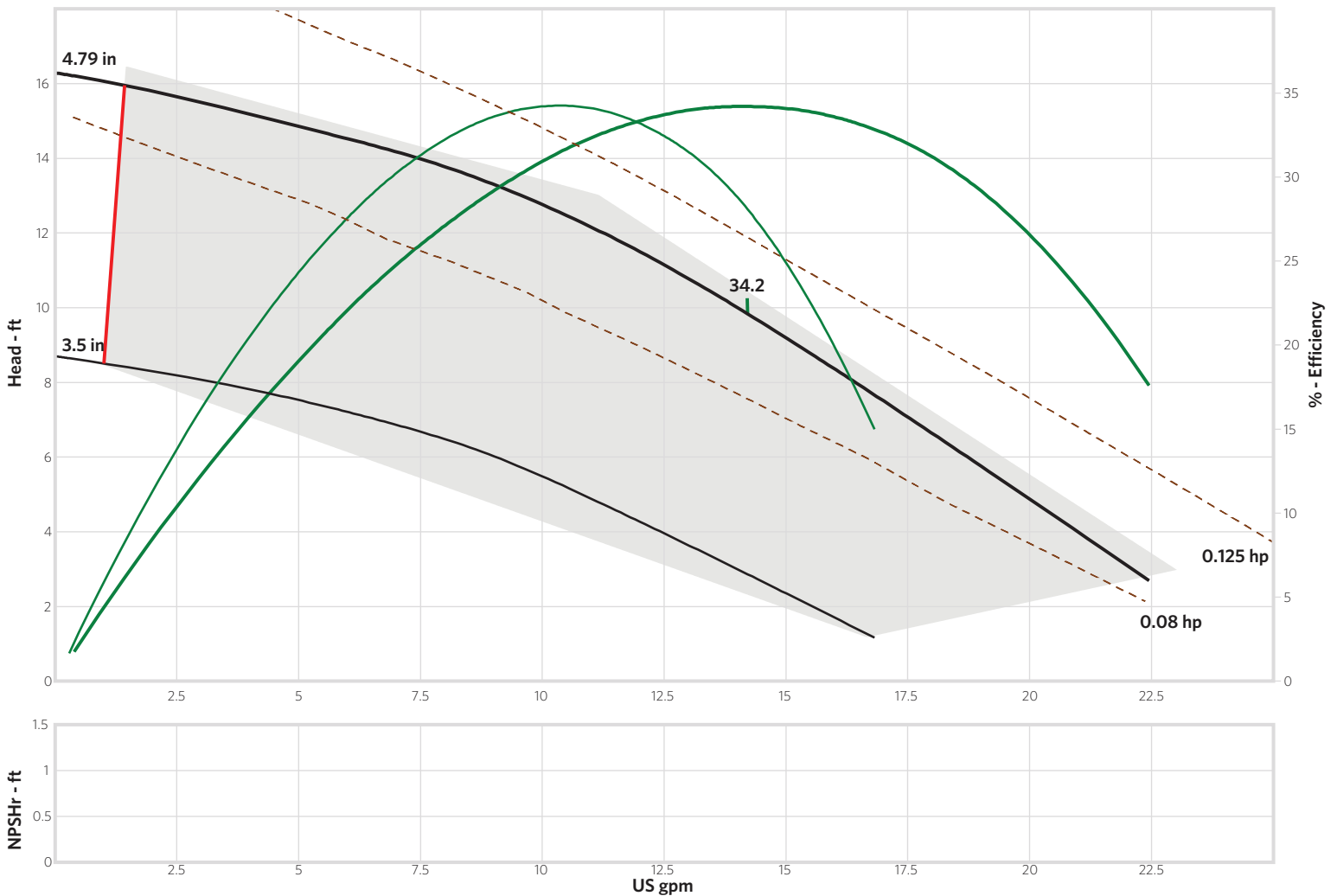
Performance Envelope

- 22.5 GPM
- 16' Head
- 35% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.052



Pump:

Size: 052
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011212-9
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.79 in
 Impeller: 1000.052
 Ns: 1087
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.125 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.12 in
 Power: ---
 Eye area: ---

---- Data Point ----

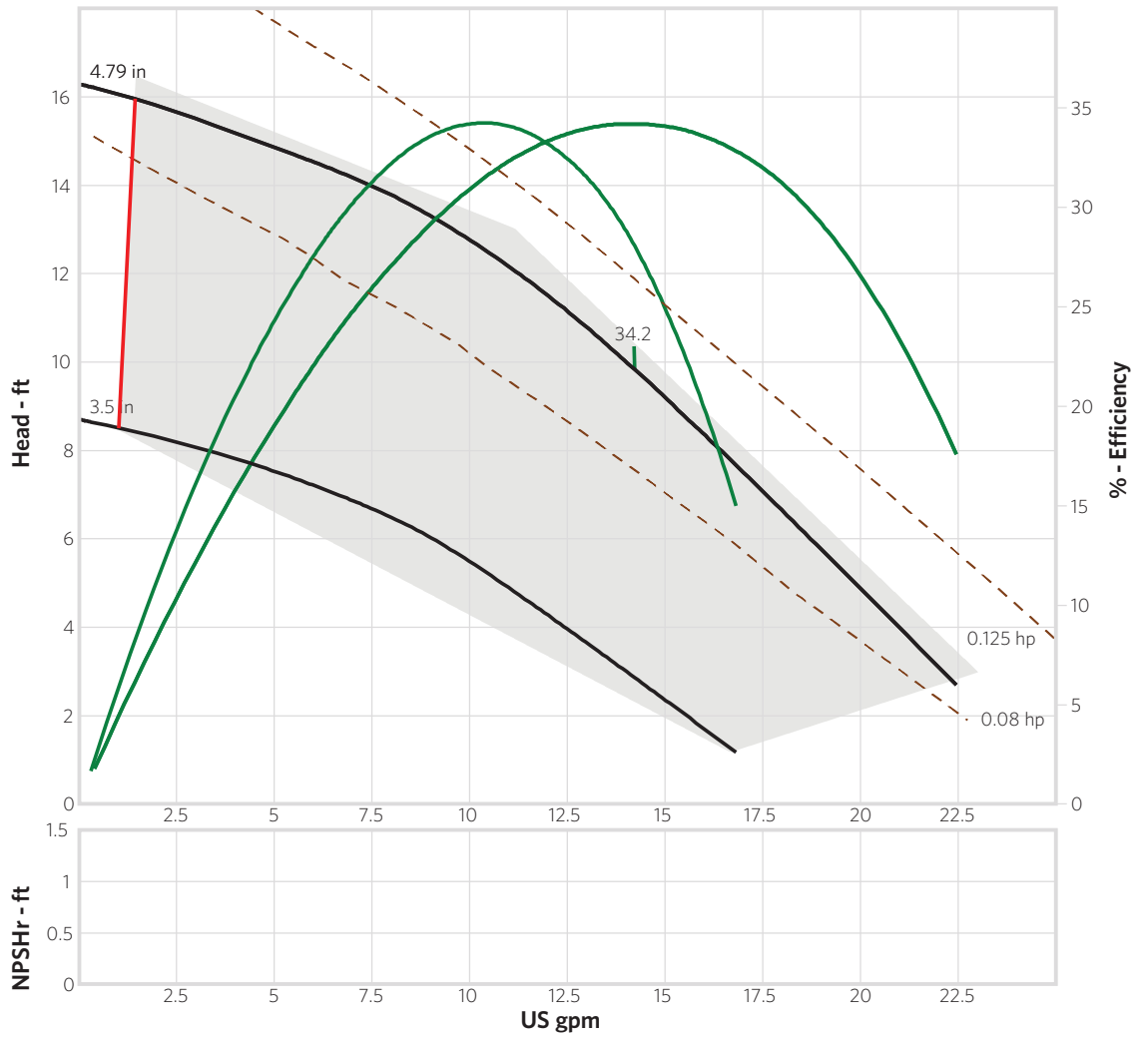
Flow: 14.2 US gpm
 Head: 9.84 ft
 Eff: 34.2%
 Power: 0.103 hp
 NPSHr: ---

---- Design Curve ----

Shutoff head: 16.3 ft
 Shutoff dP: 7.06 psi
 Min flow: 1.42 US gpm
 BEP: 34.2% @ 14.2 US gpm
 NOL power:
 0.104 hp @ 12 US gpm

-- Max Curve --

Max power:
 0.104 hp @ 12 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
21.6	1750	3.44	20.5	0.0887	---
18	1750	6.63	31.1	0.0967	---
14.4	1750	9.68	34.1	0.103	---
10.8	1750	12.3	32.1	0.104	---
7.2	1750	14.1	25.2	0.101	---



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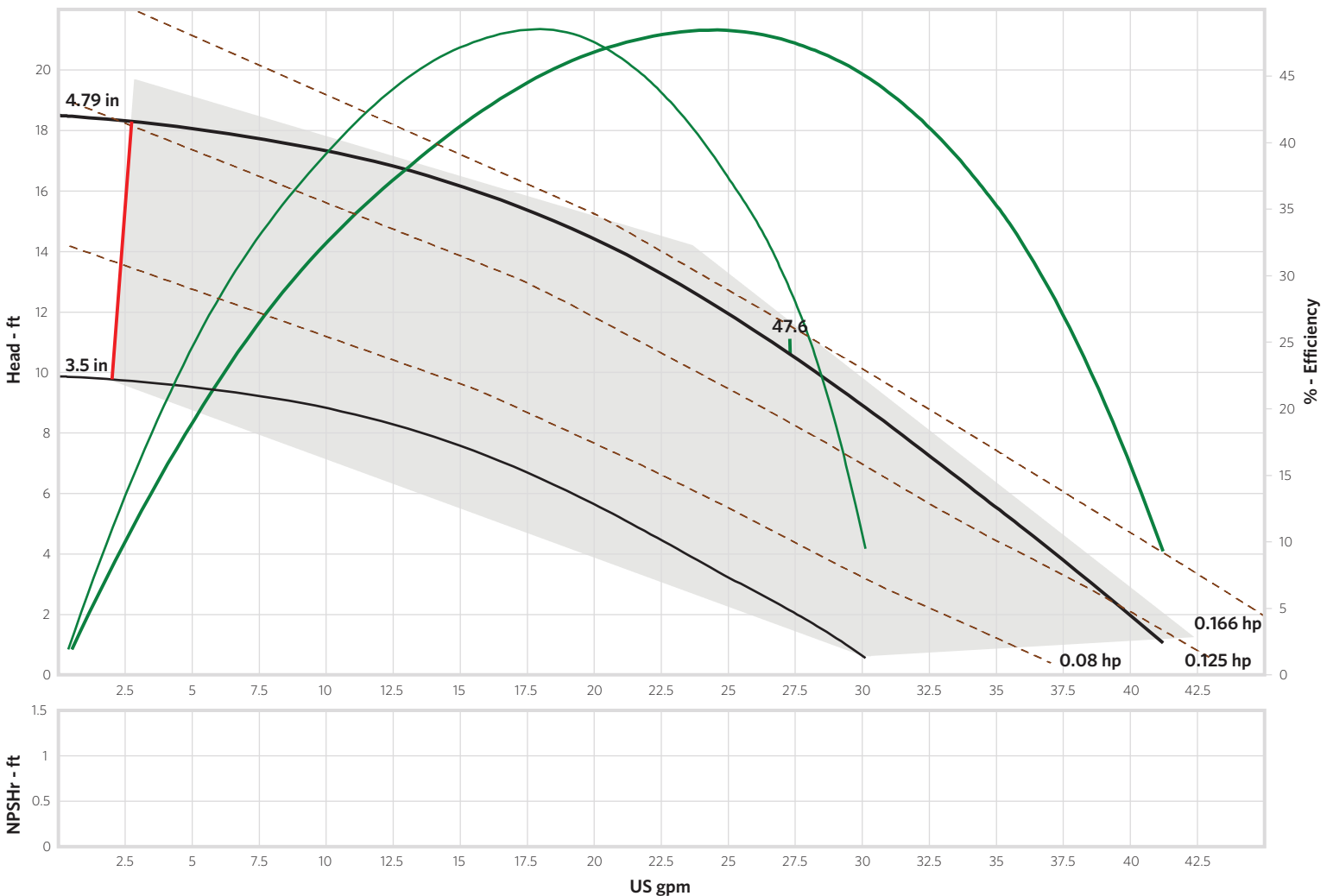
Performance Envelope

- 41 GPM
- 19' Head
- 50% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.053



Pump:

Size: 053
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011213-6
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.79 in
 Impeller: 1000.053
 Ns: 1242
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.166 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.306 in
 Power: ---
 Eye area: ---

--- Data Point ---

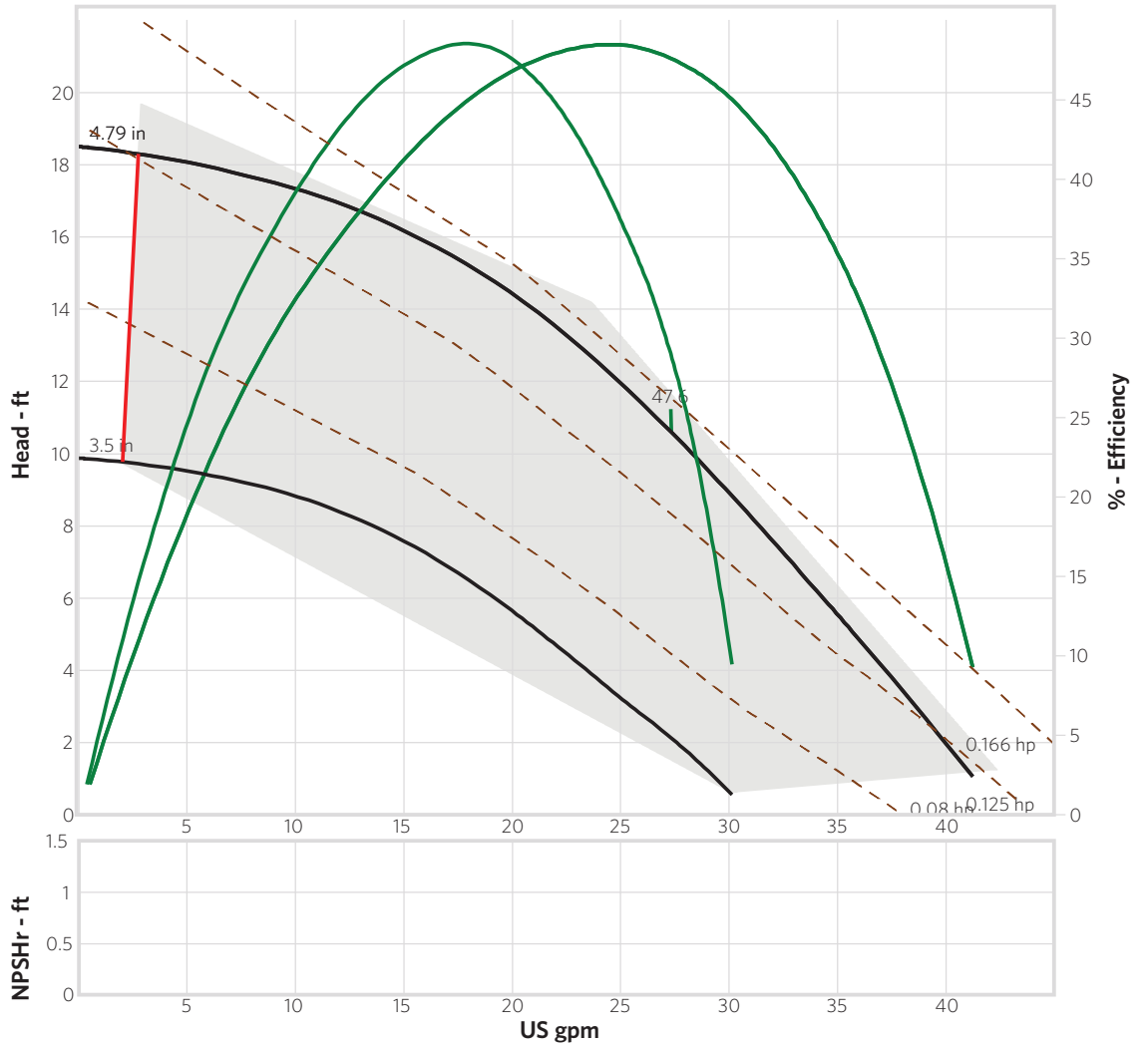
Flow: 27.3 US gpm
 Head: 10.6 ft
 Eff: 47.6%
 Power: 0.154 hp
 NPSHr: ---

--- Design Curve ---

Shutoff head: 18.5 ft
 Shutoff dP: 8.01 psi
 Min flow: 2.73 US gpm
 BEP: 47.6% @ 27.3 US gpm
 NOL power:
 0.156 hp @ 20.5 US gpm

-- Max Curve --

Max power:
 0.156 hp @ 20.5 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
39.6	1750	2.22	16.3	0.124	---
33	1750	6.89	39.7	0.143	---
26.4	1750	11.1	47.5	0.154	---
19.8	1750	14.4	46.3	0.155	---
13.2	1750	16.6	38.1	0.144	---



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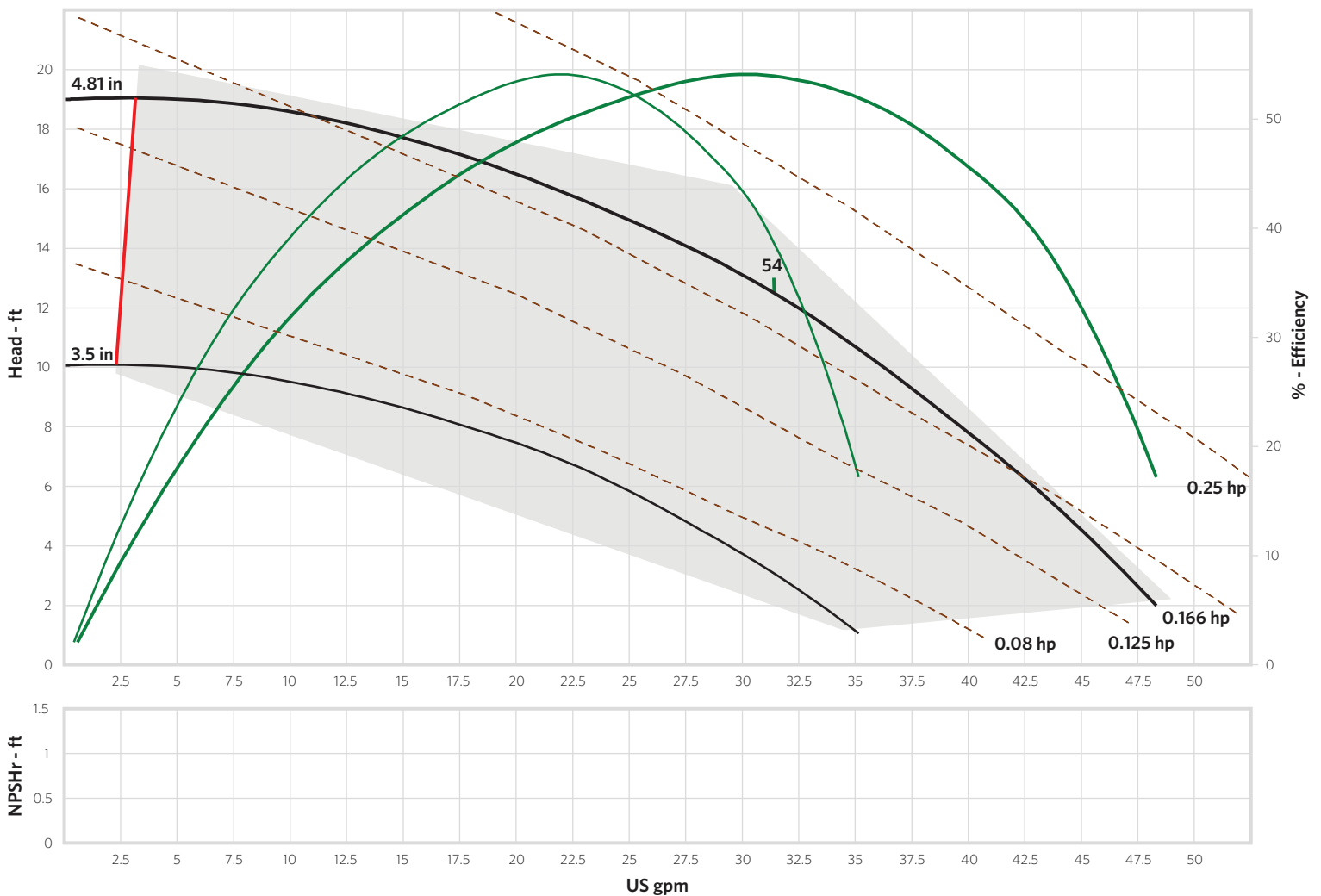
Performance Envelope

- 48 GPM
- 19' Head
- 54% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.054



Pump:

Size: 054
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011213-15
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.81 in
 Impeller: 1000.054
 Ns: 1305
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

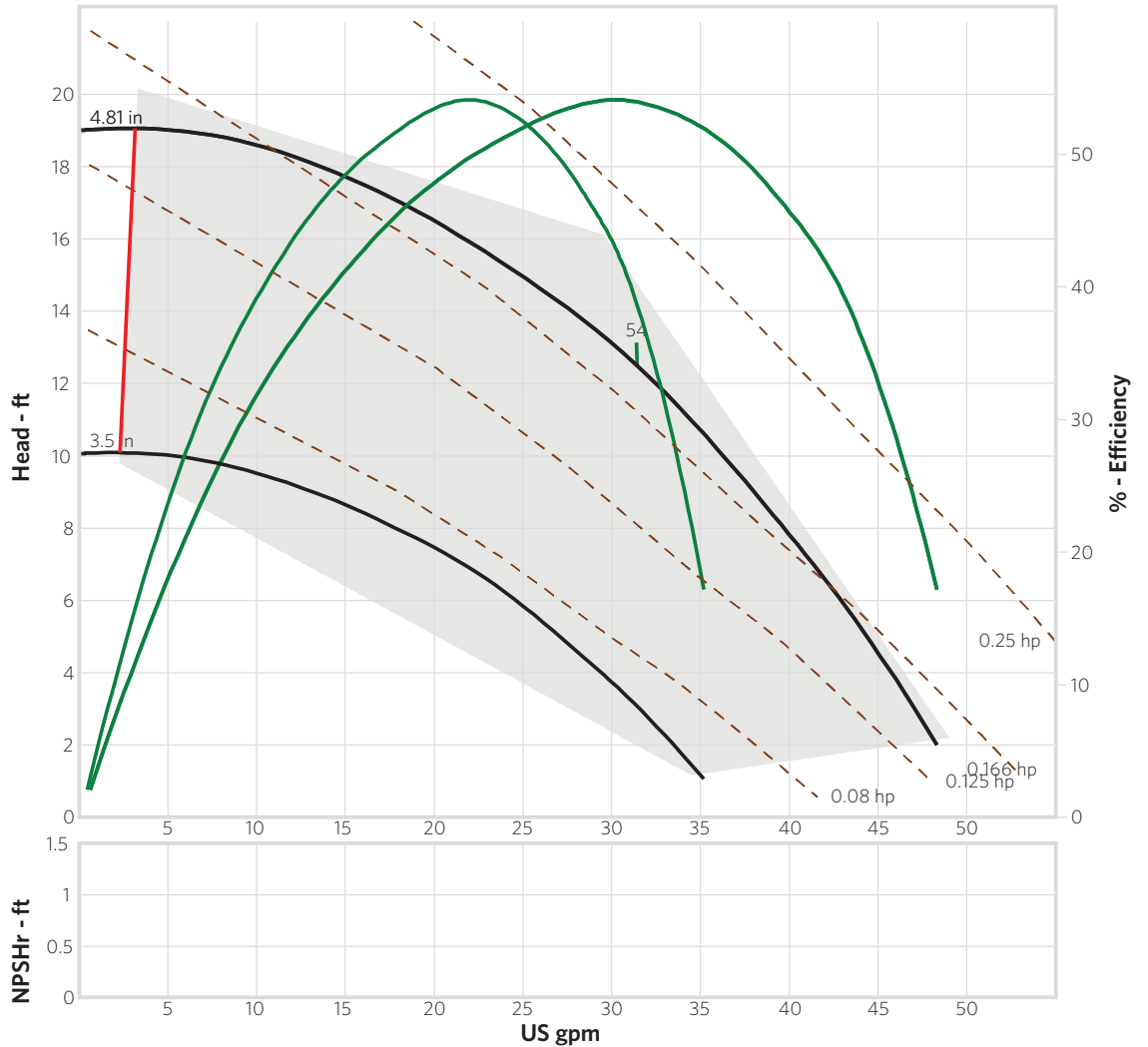
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.25 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.397 in
 Power: ---
 Eye area: ---

---- Data Point ----	
Flow:	31.4 US gpm
Head:	12.5 ft
Eff:	54%
Power:	0.184 hp
NPSHr:	---
---- Design Curve ----	
Shutoff head:	19 ft
Shutoff dP:	8.23 psi
Min flow:	3.14 US gpm
BEP:	54% @ 31.4 US gpm
NOL power:	0.184 hp @ 31.4 US gpm
-- Max Curve --	
Max power:	0.184 hp @ 31.4 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
46.3	1750	3.5	25.9	0.15	---
38.6	1750	8.62	47.6	0.175	---
30.9	1750	12.7	53.8	0.183	---
23.2	1750	15.5	50.6	0.179	---
15.4	1750	17.6	41.7	0.163	---



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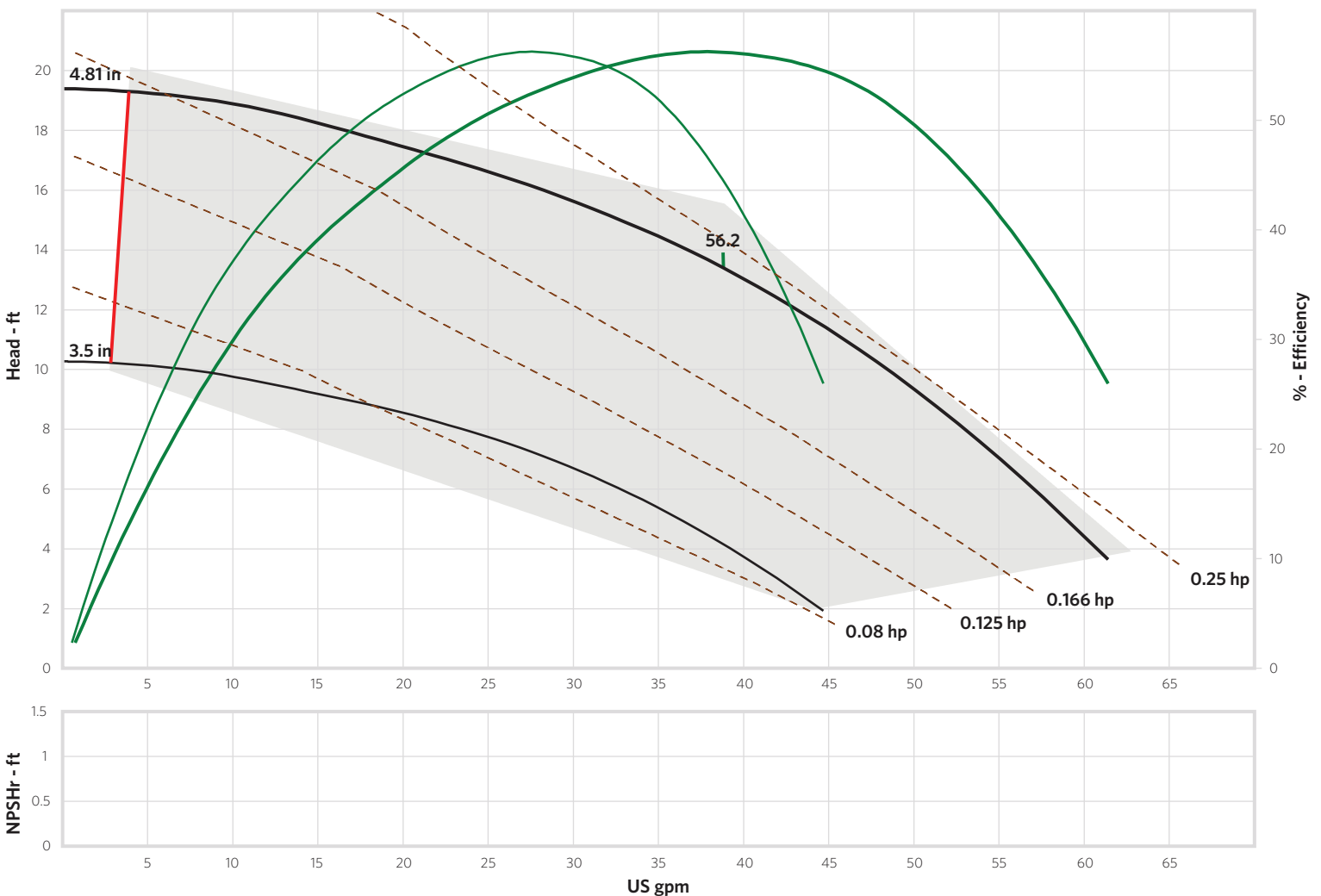
Performance Envelope

- 61 GPM
- 19' Head
- 55% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.055



Pump:

Size: 055
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011214-04
 Specific Speeds:
 Dimensions: Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

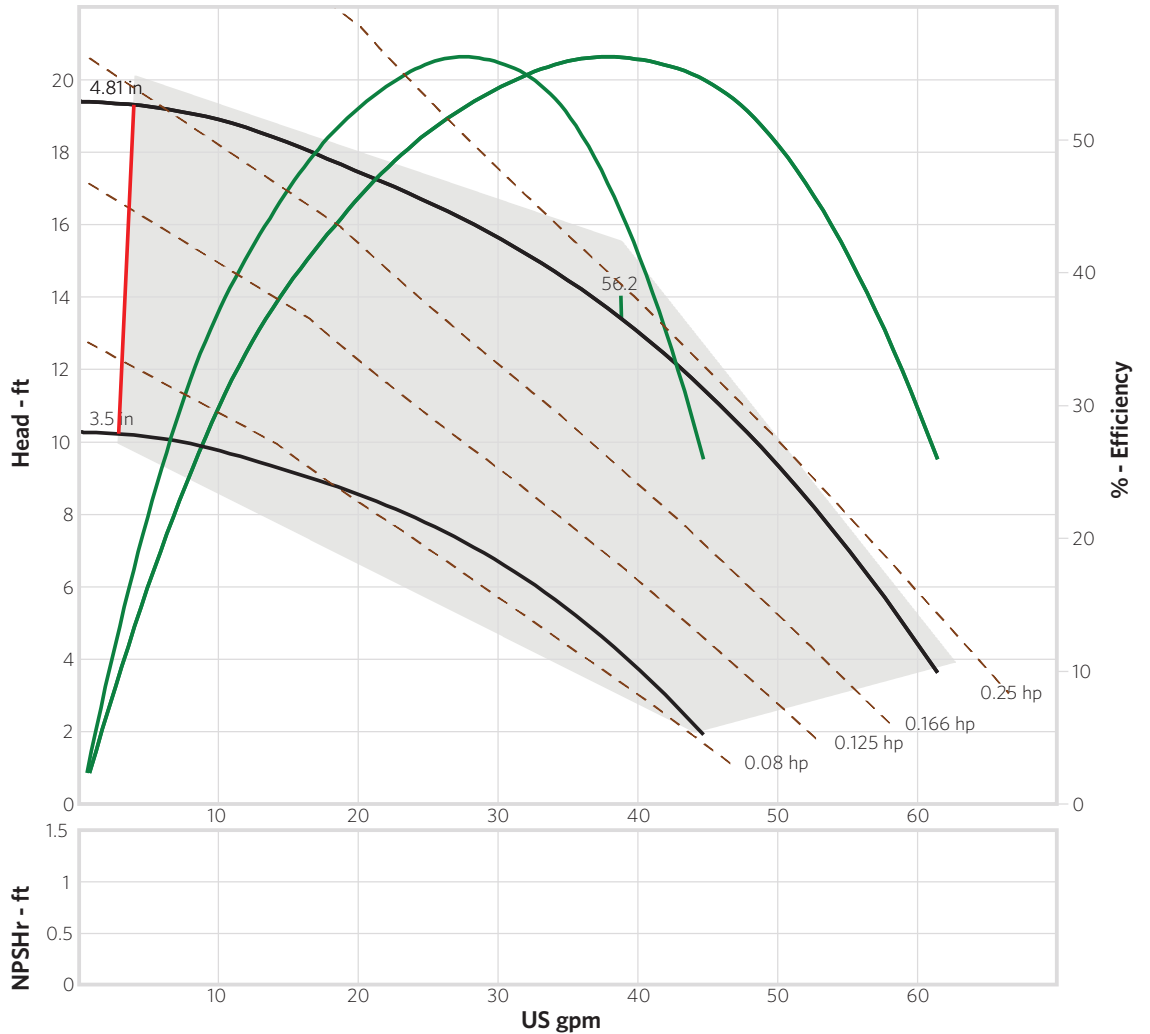
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.25 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.306 in
 Power: ---
 Eye area: ---

---- Data Point ----	
Flow:	38.8 US gpm
Head:	13.4 ft
Eff:	56.2%
Power:	0.234 hp
NPSHr:	---
---- Design Curve ----	
Shutoff head:	19.4 ft
Shutoff dP:	8.4 psi
Min flow:	3.88 US gpm
BEP:	56.2% @ 38.8 US gpm
NOL power:	0.238 hp @ 48.8 US gpm
-- Max Curve --	
Max power:	0.238 hp @ 48.8 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
58.9	1750	4.87	31	0.221	---
49.1	1750	9.7	50.5	0.237	---
39.3	1750	13.2	56	0.234	---
29.5	1750	15.7	53.6	0.218	---
19.6	1750	17.5	45.2	0.192	---



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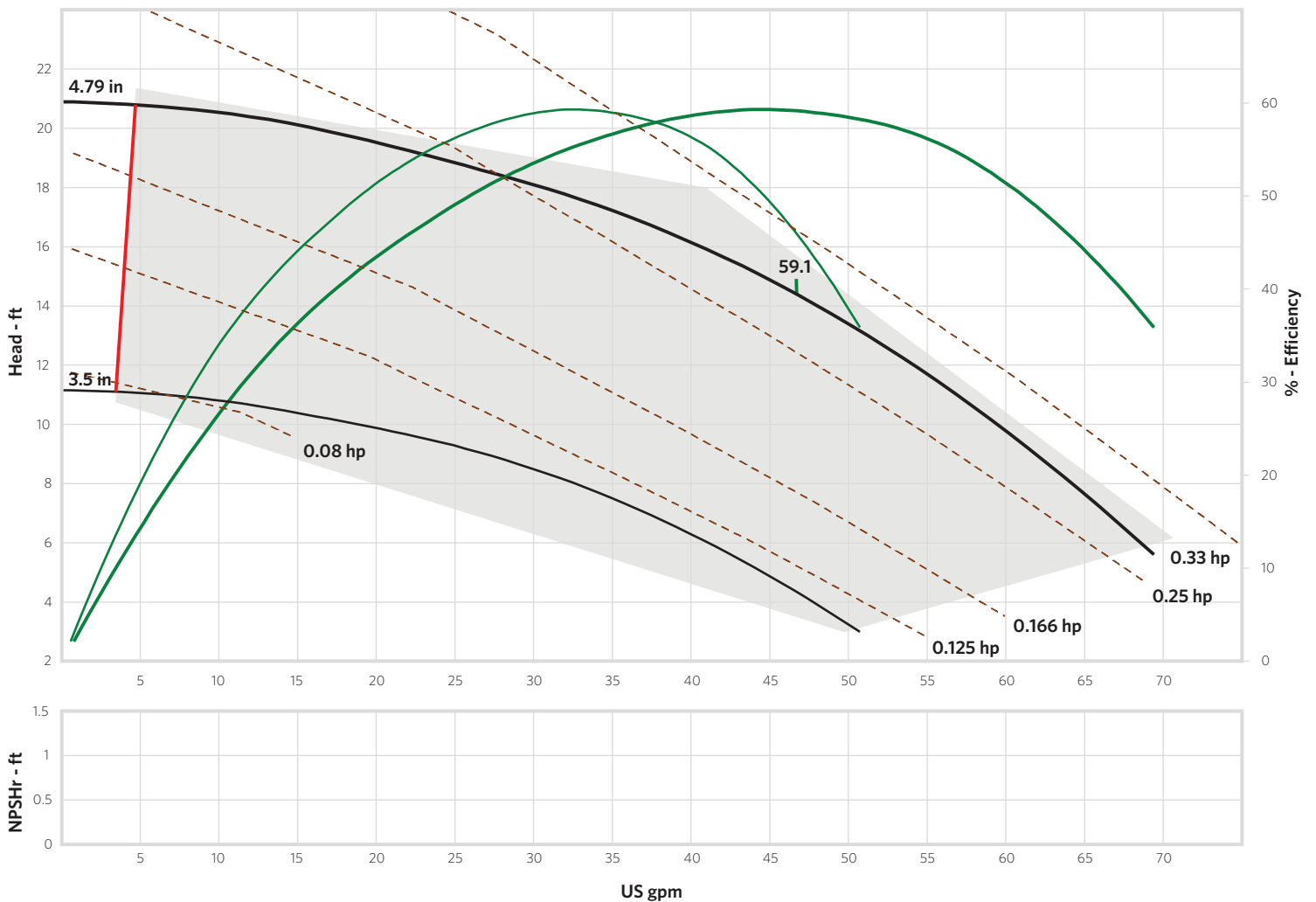
Performance Envelope

- 69 GPM
- 21' Head
- 60% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.056



Pump:

Size: 056
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011214-10
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.79 in
 Impeller: 1000.056
 Ns: 1430
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

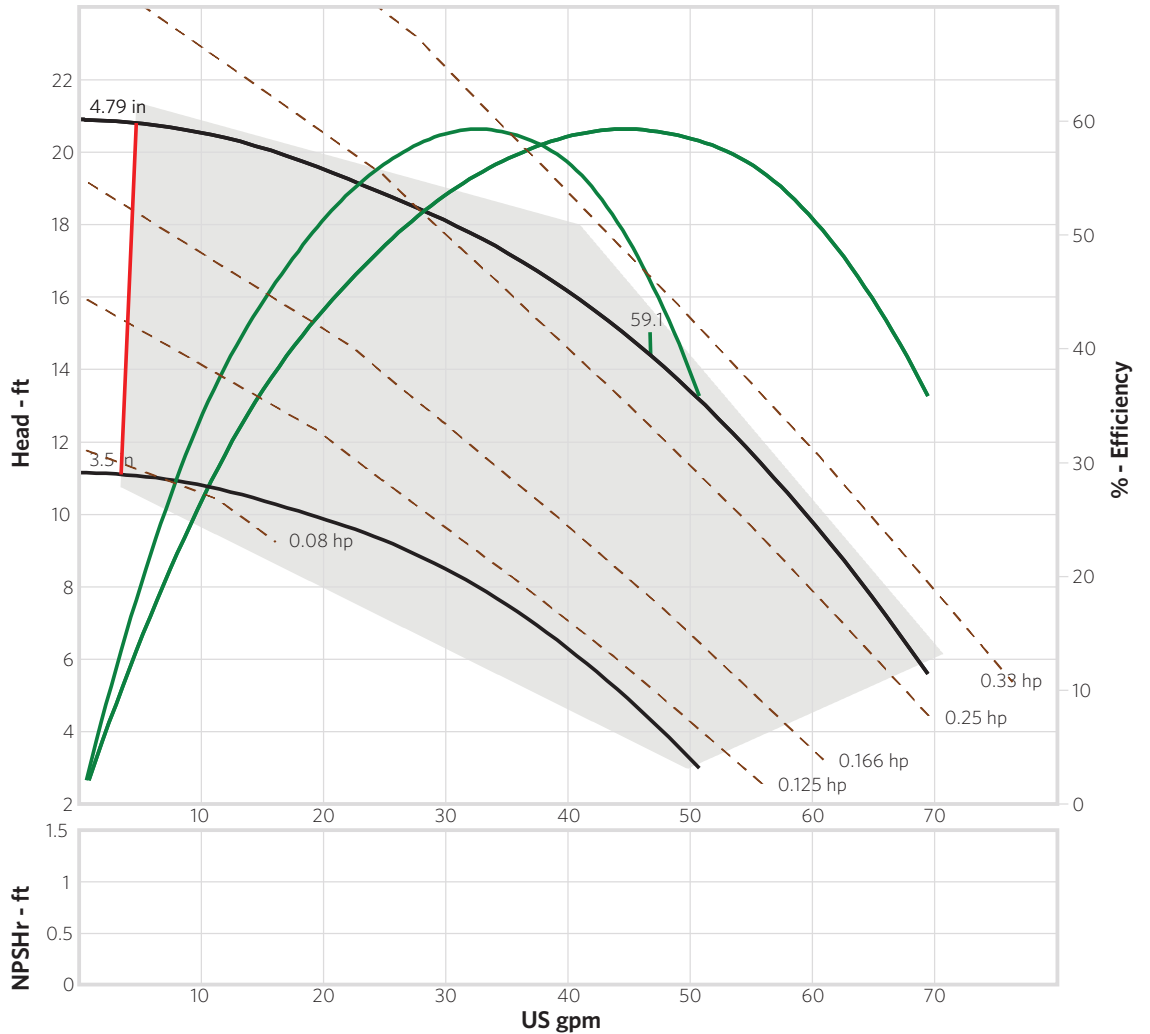
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.33 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.388 in
 Power: ---
 Eye area: ---

---- Data Point ----	
Flow:	46.7 US gpm
Head:	14.4 ft
Eff:	59.1%
Power:	0.287 hp
NPSHr:	---
---- Design Curve ----	
Shutoff head:	20.9 ft
Shutoff dP:	9.05 psi
Min flow:	4.67 US gpm
BEP:	59.1% @ 46.7 US gpm
NOL power:	0.289 hp @ 57.9 US gpm
-- Max Curve --	
Max power:	0.289 hp @ 57.9 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
66.6	1750	6.82	40.2	0.277	---
55.5	1750	11.4	54.9	0.288	---
44.4	1750	15	58.7	0.283	---
33.3	1750	17.5	55.3	0.264	---
22.2	1750	19.2	45.3	0.233	---



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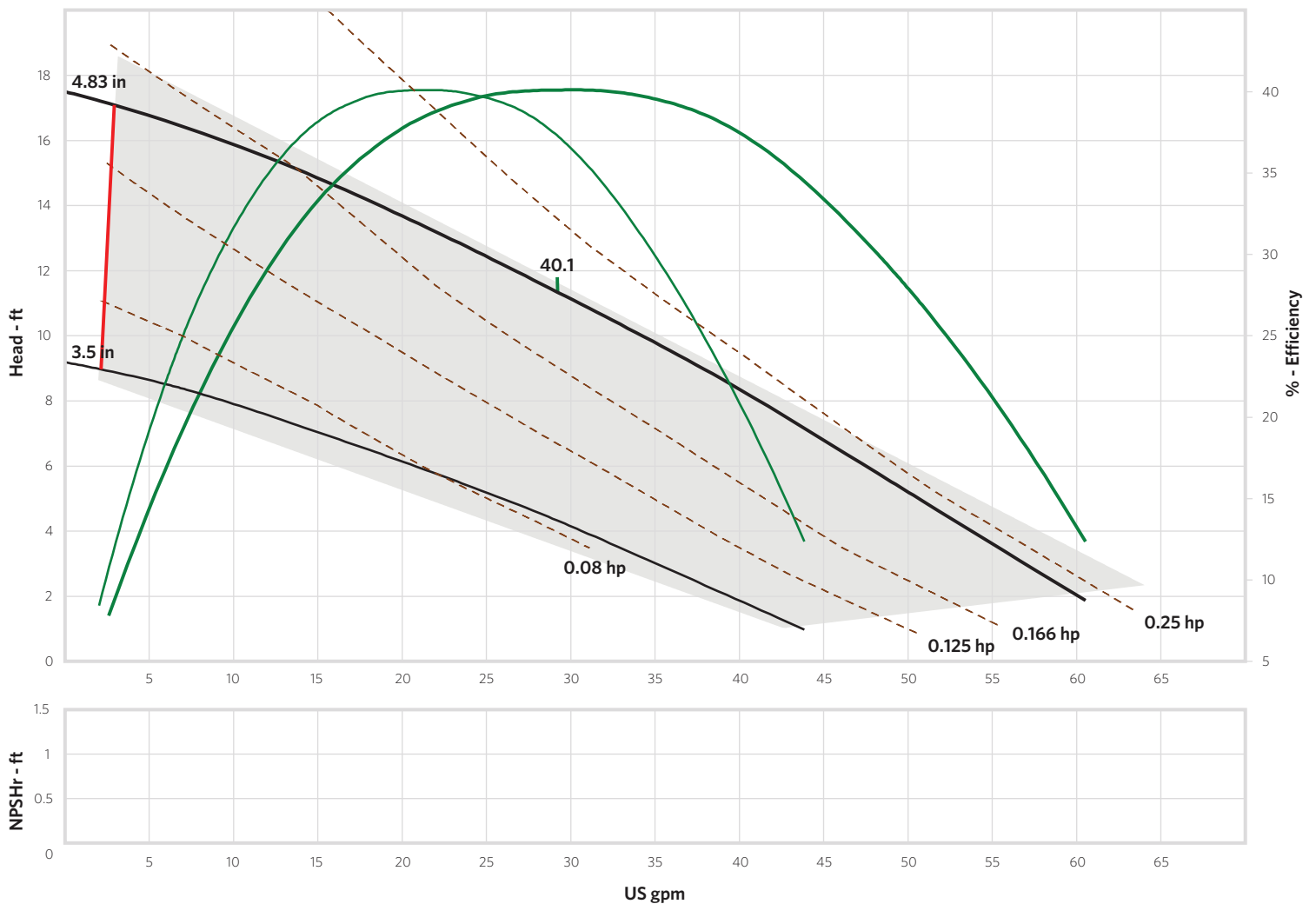
Performance Envelope

- 60 GPM
- 17' Head
- 40% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.056S



Pump:

Size: 056S
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011207-1
 Specific Speeds:
 Dimensions:

Speed: 1750 rpm
 Dia: 4.83 in
 Impeller: 1000.056S
 Ns: 1697
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---

Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve

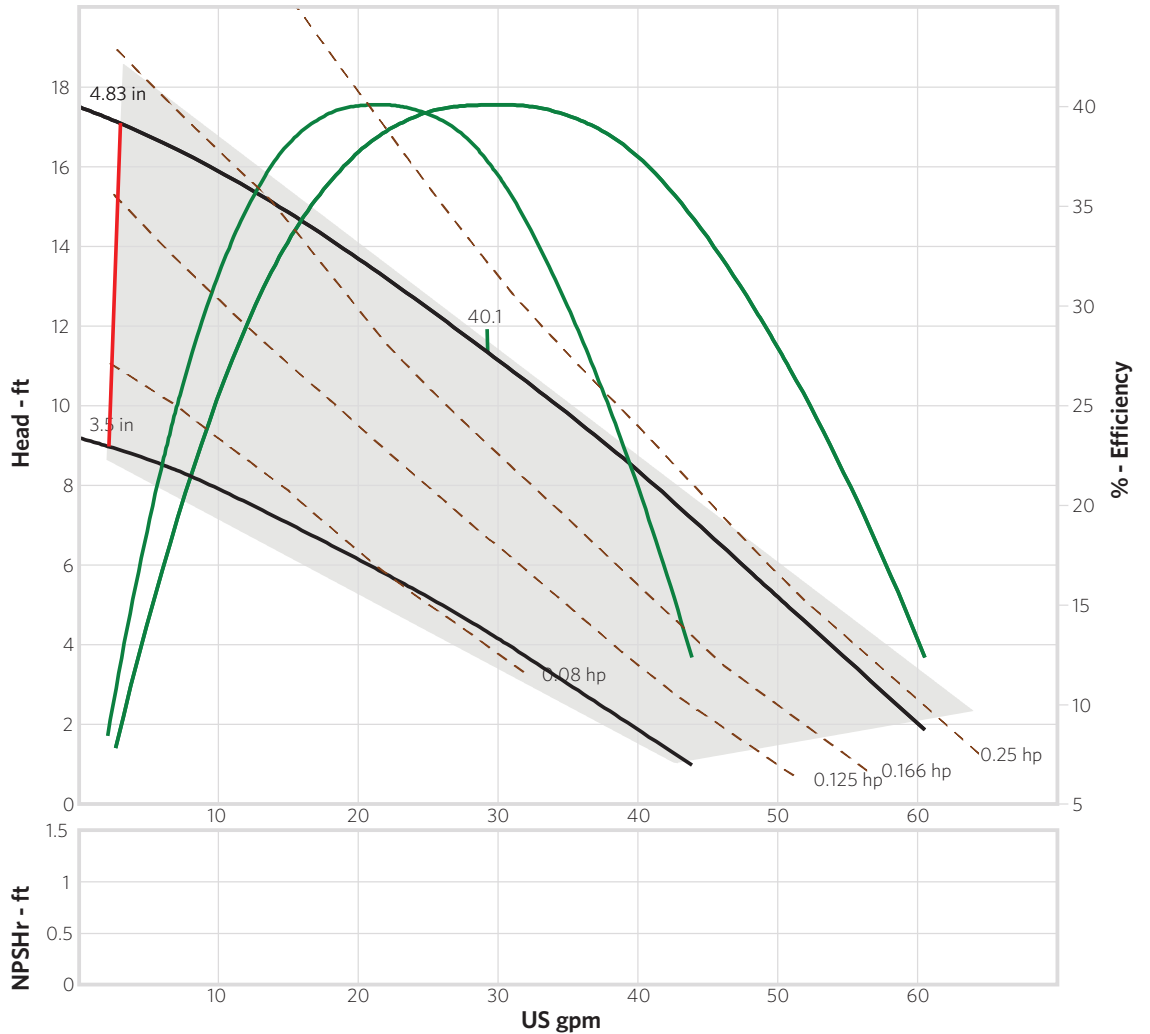
Size: 0.25 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.484 in

Power: ---
 Eye area: ---

---- Data Point ----	
Flow:	29.2 US gpm
Head:	11.3 ft
Eff:	40.1%
Power:	0.209 hp
NPSHr:	---
---- Design Curve ----	
Shutoff head:	17.5 ft
Shutoff dP:	7.58 psi
Min flow:	2.92 US gpm
BEP:	40.1% @ 29.2 US gpm
NOL power:	0.236 hp @ 50.8 US gpm
-- Max Curve --	
Max power:	0.236 hp @ 50.8 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
58.1	1750	2.63	16	0.232	---
48.4	1750	5.71	29.8	0.234	---
38.7	1750	8.74	38.2	0.224	---
29	1750	11.4	40.1	0.208	---
19.4	1750	13.8	37.3	0.181	---



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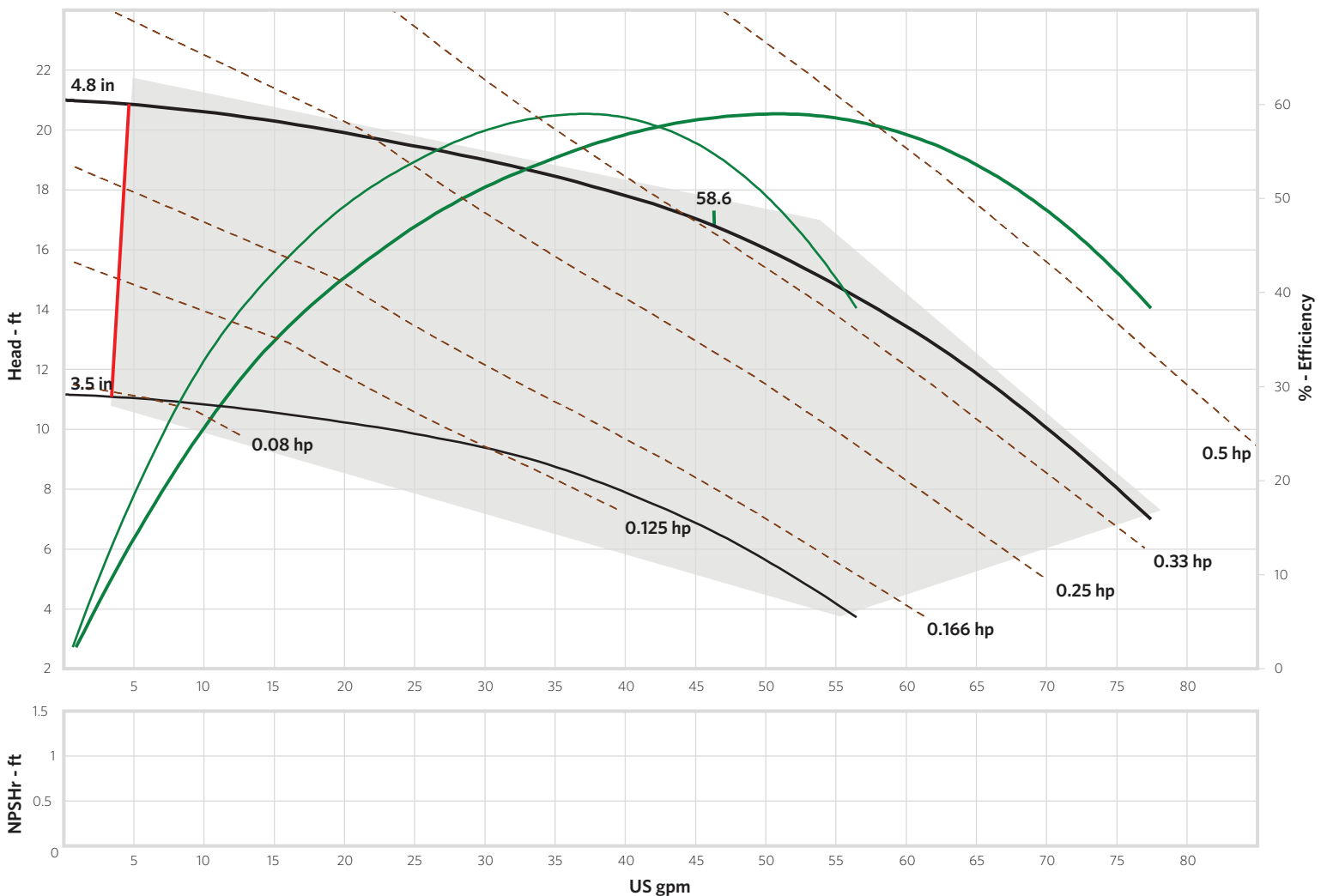
Performance Envelope

- 77 GPM
- 21' Head
- 60% Peak Efficiency

Advance® 1000 4 Pole Full / Minimum Diameter Performance Curve

Speed: 1750 rpm

Size: 1000.057



Pump:

Size: 057
 Type: Advance 1000
 Synch speed: 1800 rpm
 Curve: 011215-01
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 4.8 in
 Impeller: 1000.057
 Ns: 1495
 Nss: ---
 Suction: 1.5 in
 Discharge: 1.5 in

Search Criteria:

Flow: --- Head: ---

Fluid:

Water
 SG: 1
 Viscosity: 1.105 cP
 NPSHa: ---
 Temperature: 60 °F
 Vapor pressure: 0.2563 psi a
 Atm pressure: 14.7 psi a

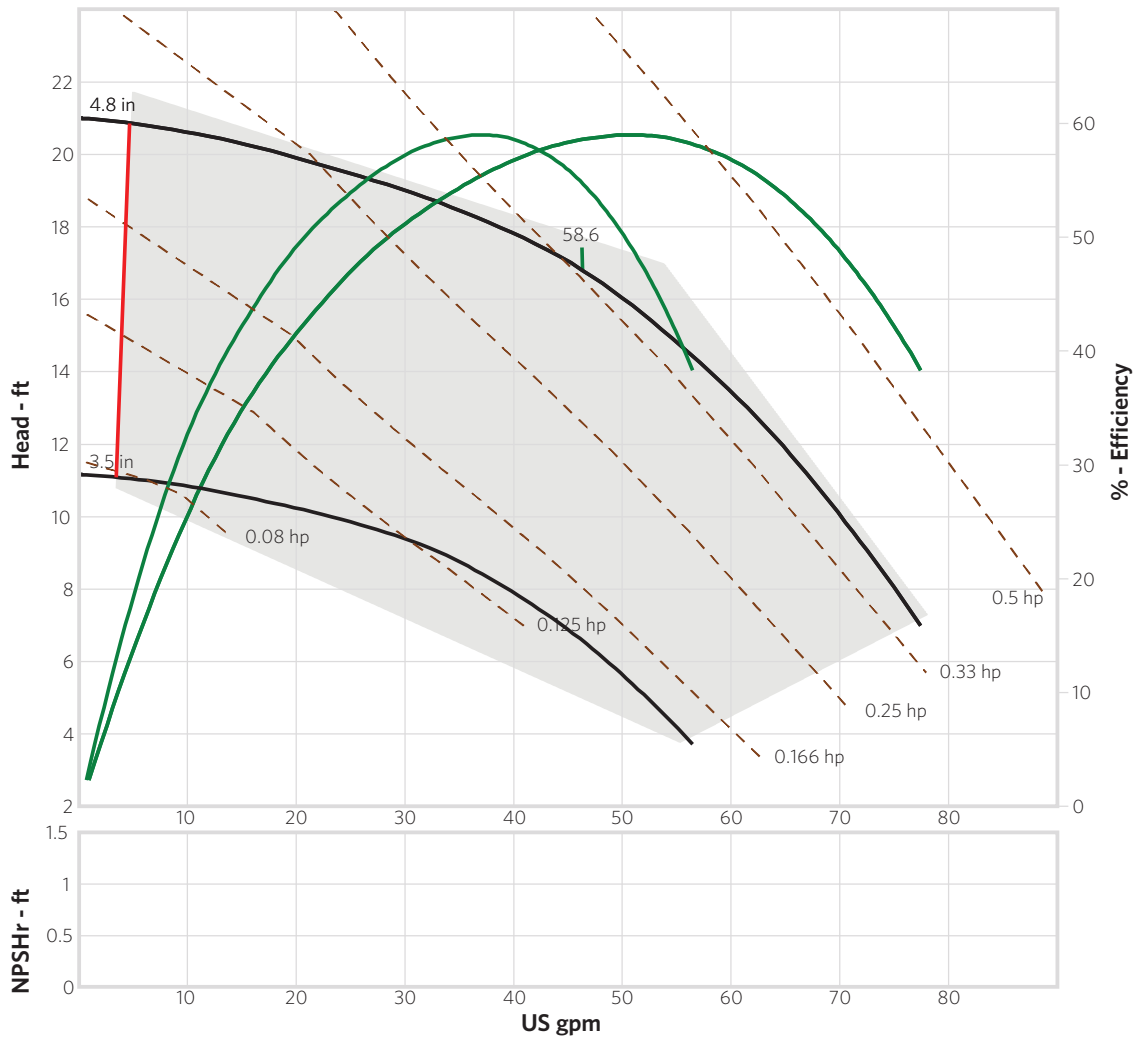
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 Size: 0.5 hp
 Speed: 1800
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.499 in
 Power: ---
 Eye area: ---

---- Data Point ----	
Flow:	46.3 US gpm
Head:	16.8 ft
Eff:	58.6%
Power:	0.335 hp
NPSHr:	---
---- Design Curve ----	
Shutoff head:	21 ft
Shutoff dP:	9.1 psi
Min flow:	4.63 US gpm
BEP:	58.6% @ 46.3 US gpm
NOL power:	0.364 hp @ 71.2 US gpm
-- Max Curve --	
Max power:	0.364 hp @ 71.2 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
74.3	1750	8.28	42.8	0.36	---
61.9	1750	12.8	55.4	0.36	---
49.5	1750	16.1	58.5	0.341	---
37.1	1750	18.2	55.2	0.307	---
24.8	1750	19.5	46.5	0.261	---