



The Advance® 3000 design meets requirements of low flow, higher head applications as compared to the Advance® 1000 legacy series.

- Use of Noryl® resin for wetted parts enables 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.
- Multiple drain locations allow for several discharge orientations.

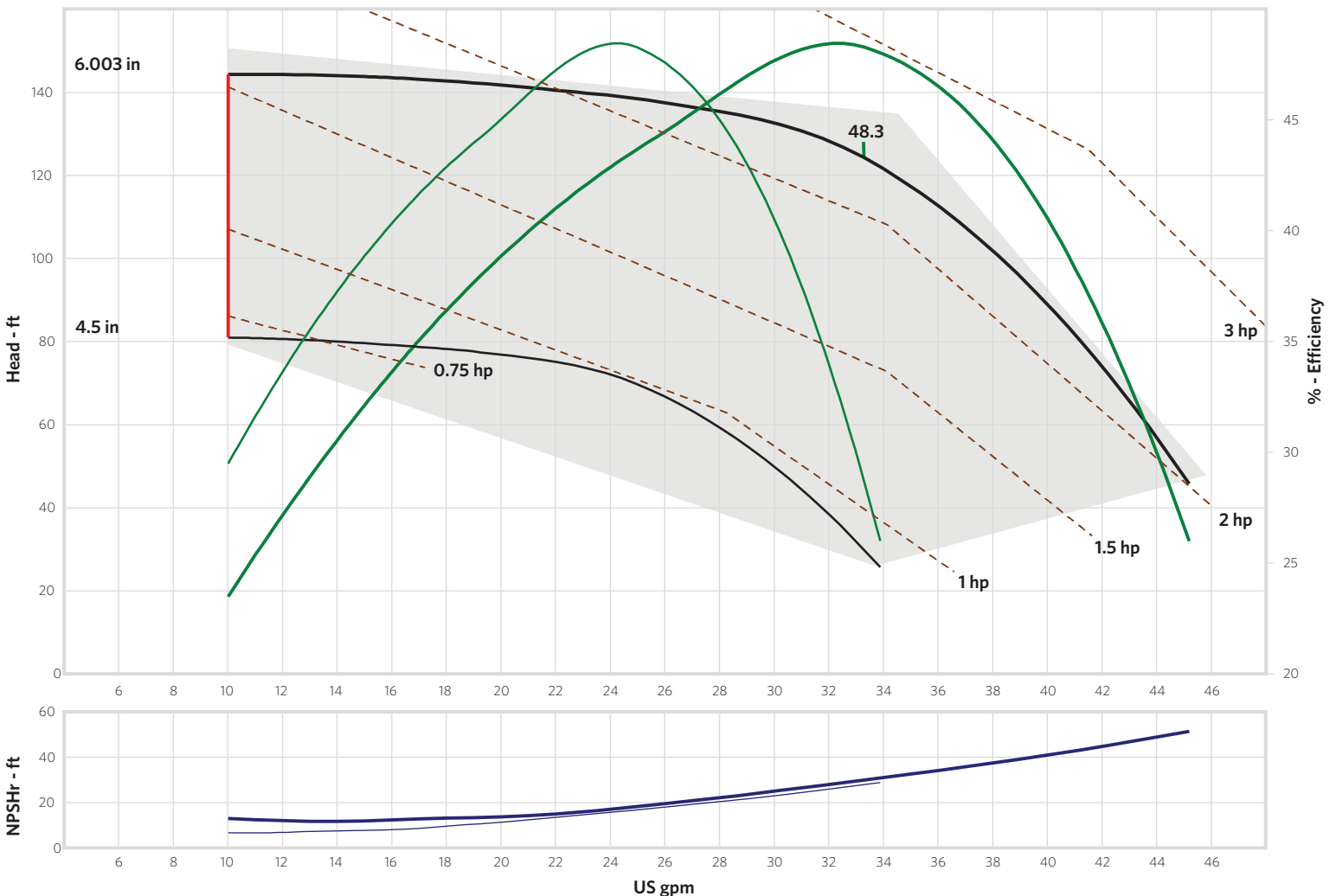
Performance Envelope

- 45 GPM
- 142' Head
- 50% Peak Efficiency

Advance® 3000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3550 rpm

Size: 3000.054



Pump:

Size: 054
 Type: Advance 3000
 Synch speed: 3600 rpm
 Curve: 011205-4
 Specific Speeds:
 Ns: 517
 Nss: ---
 Dimensions:
 Suction: 1.5 in
 Discharge: 0.75 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: 3 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.160 in
 Power: ---
 Eye area: ---

---- Data Point ----

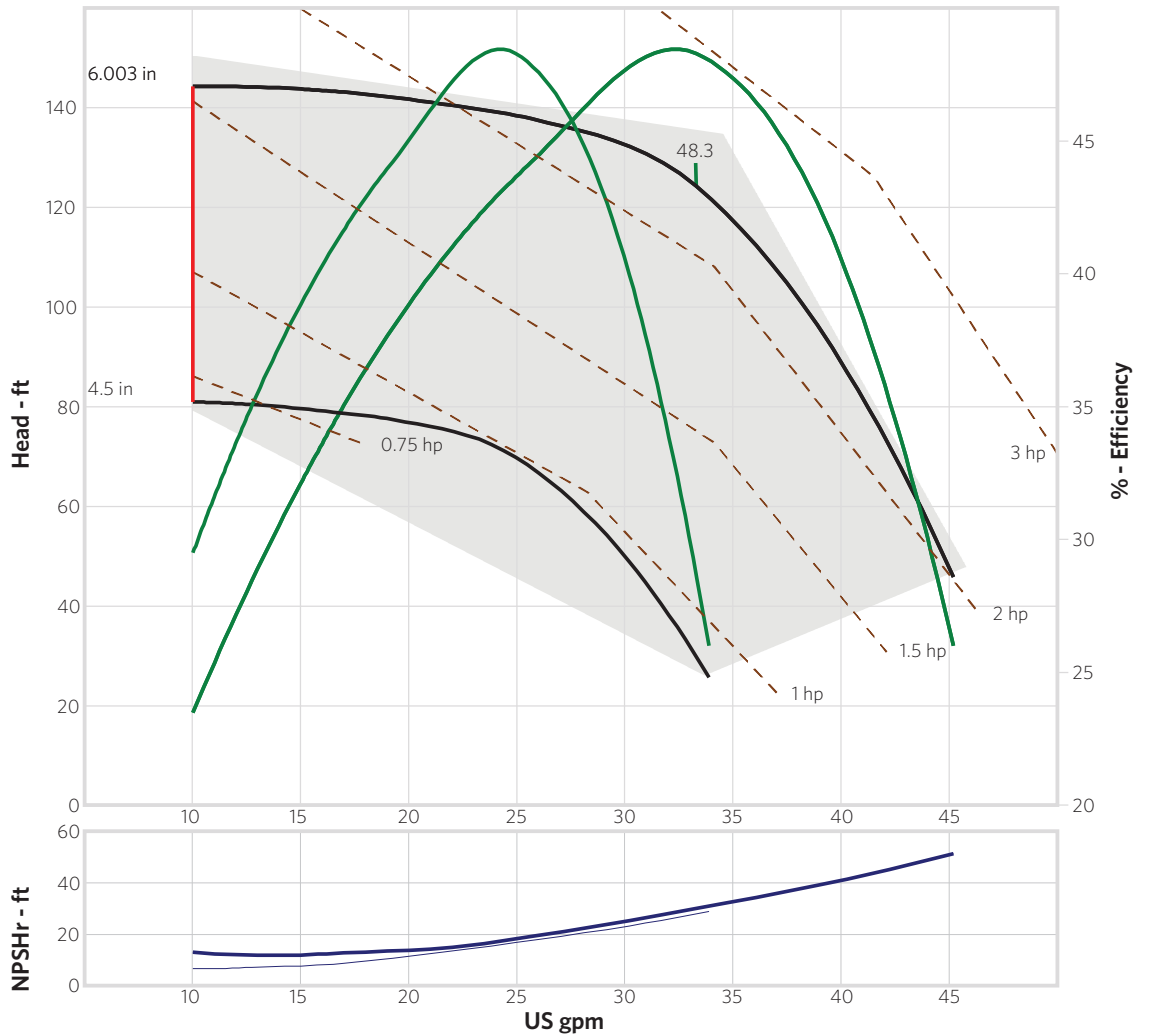
Flow: 33.3 US gpm
 Head: 124 ft
 Eff: 48.3%
 Power: 2.16 hp
 NPSHr: 30 ft

---- Design Curve ----

Shutoff head: 142 ft
 Shutoff dP: 61.6 psi
 Min flow: 10 US gpm
 BEP: 48.3% @ 33.3 US gpm
 NOL power:
 2.21 hp @ 40.3 US gpm

-- Max Curve --

Max power:
 2.21 hp @ 40.3 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
43.3	3550	61.6	31.4	2.09	47.6
36.1	3550	109	44.9	2.18	34.7
28.9	3550	132	46	2.08	23.8
21.7	3550	141	40.7	1.89	14.9
14.4	3550	144	31.1	1.68	12.1



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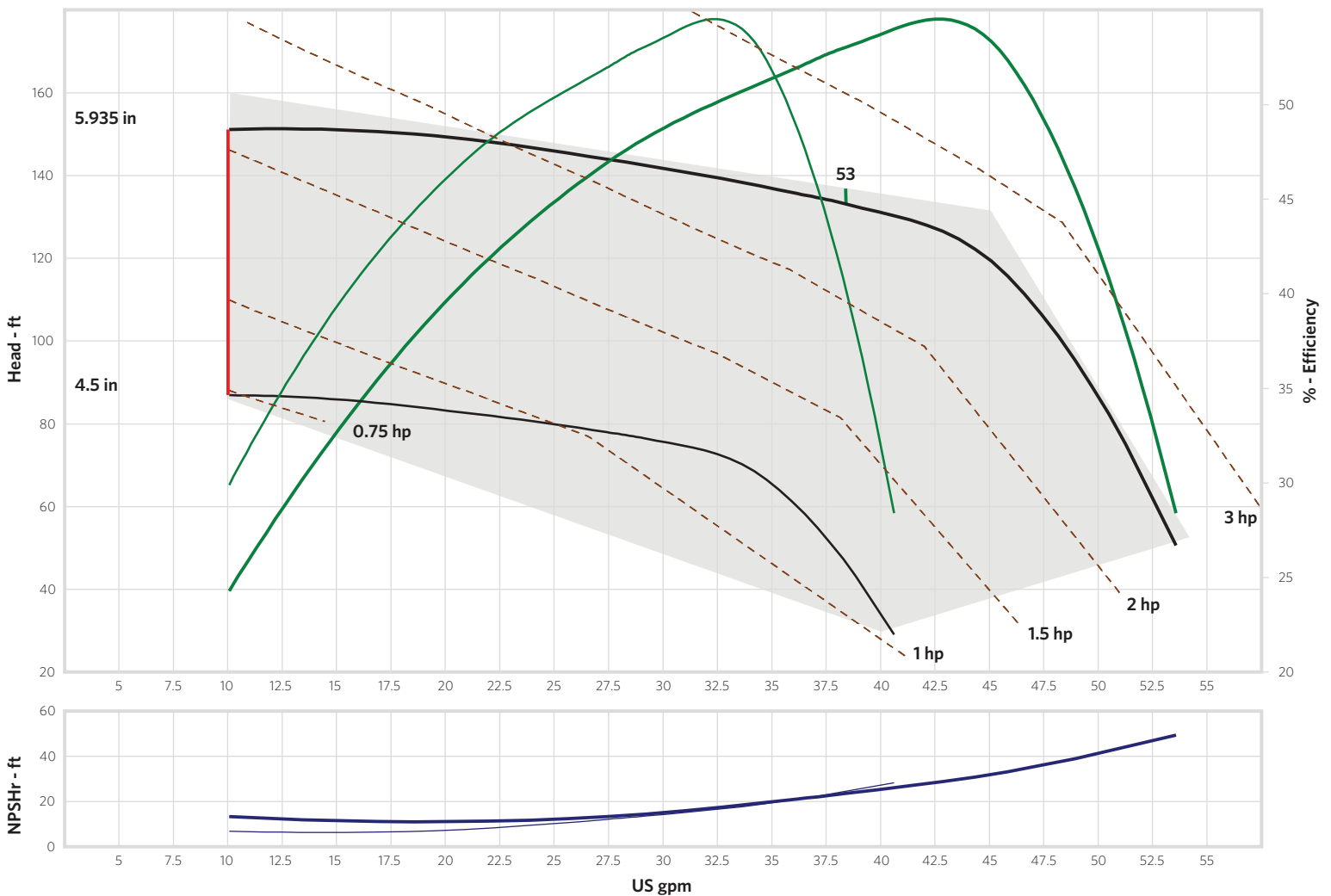
Performance Envelope

- 53 GPM
- 152' Head
- 55% Peak Efficiency

Advance® 3000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3550 rpm

Size: 3000.055



Pump:

Size: 055
 Type: Advance 3000
 Synch speed: 3600 rpm
 Curve: 011204-10
 Specific Speeds:
 Ns: 602
 Nss: ---
 Dimensions:
 Suction: 1.5 in
 Discharge: 0.75 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: 3 hp
 Speed: 3600
 Frame: 56J

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.22 in
 Power: ---
 Eye area: ---

---- Data Point ----

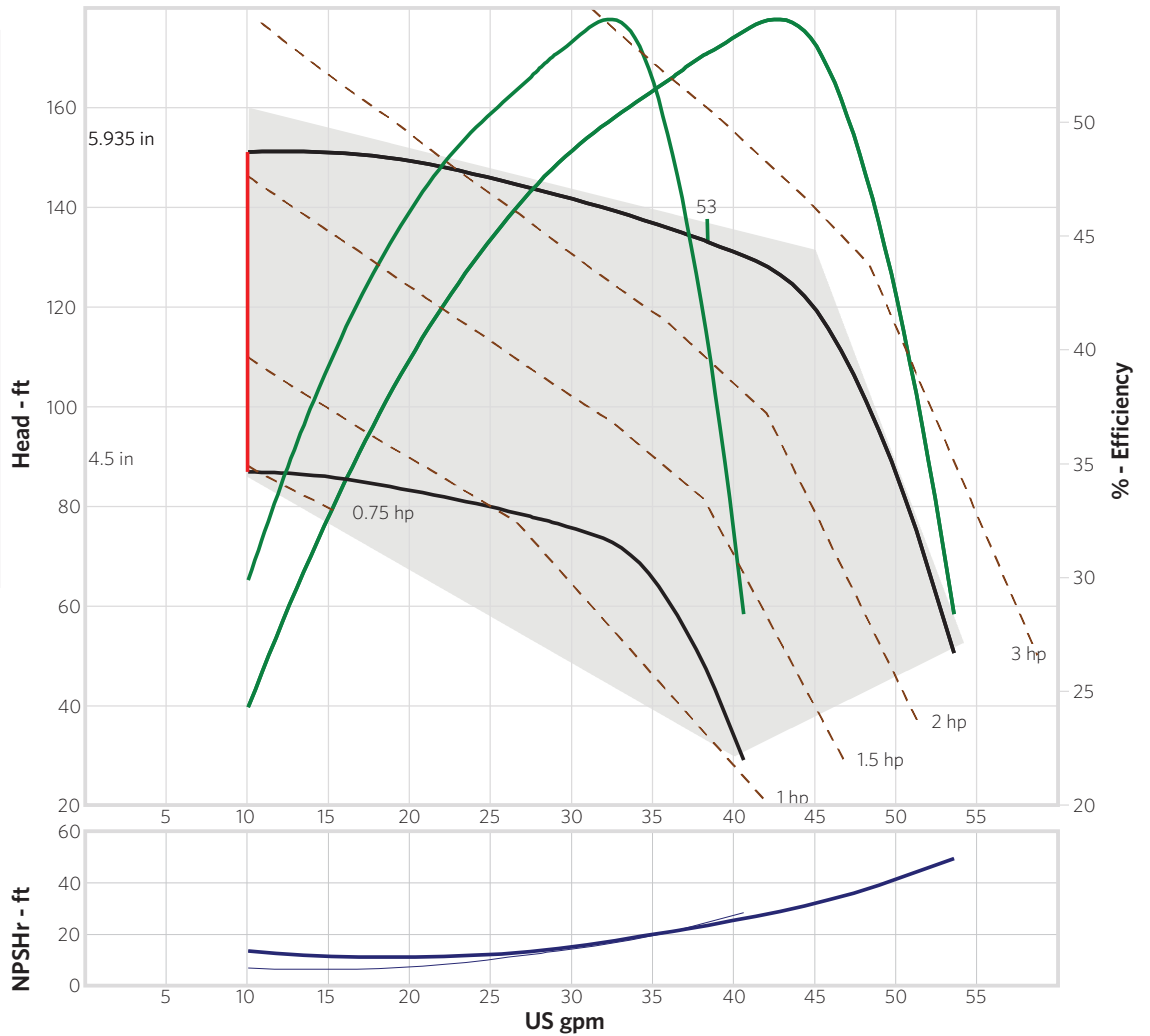
Flow: 38.4 US gpm
 Head: 133 ft
 Eff: 53%
 Power: 2.43 hp
 NPSHr: 23.6 ft

---- Design Curve ----

Shutoff head: 148 ft
 Shutoff dP: 64.1 psi
 Min flow: 10 US gpm
 BEP: 53% @ 38.4 US gpm
 NOL power:
 2.56 hp @ 45.8 US gpm

-- Max Curve --

Max power:
 2.56 hp @ 45.8 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
51.4	3550	68.8	35.1	2.45	45
42.8	3550	123	52.6	2.51	29.4
34.2	3550	138	50.8	2.33	19.4
25.7	3550	145	45.2	2.07	12.9
17.1	3550	150	35.5	1.81	11.5



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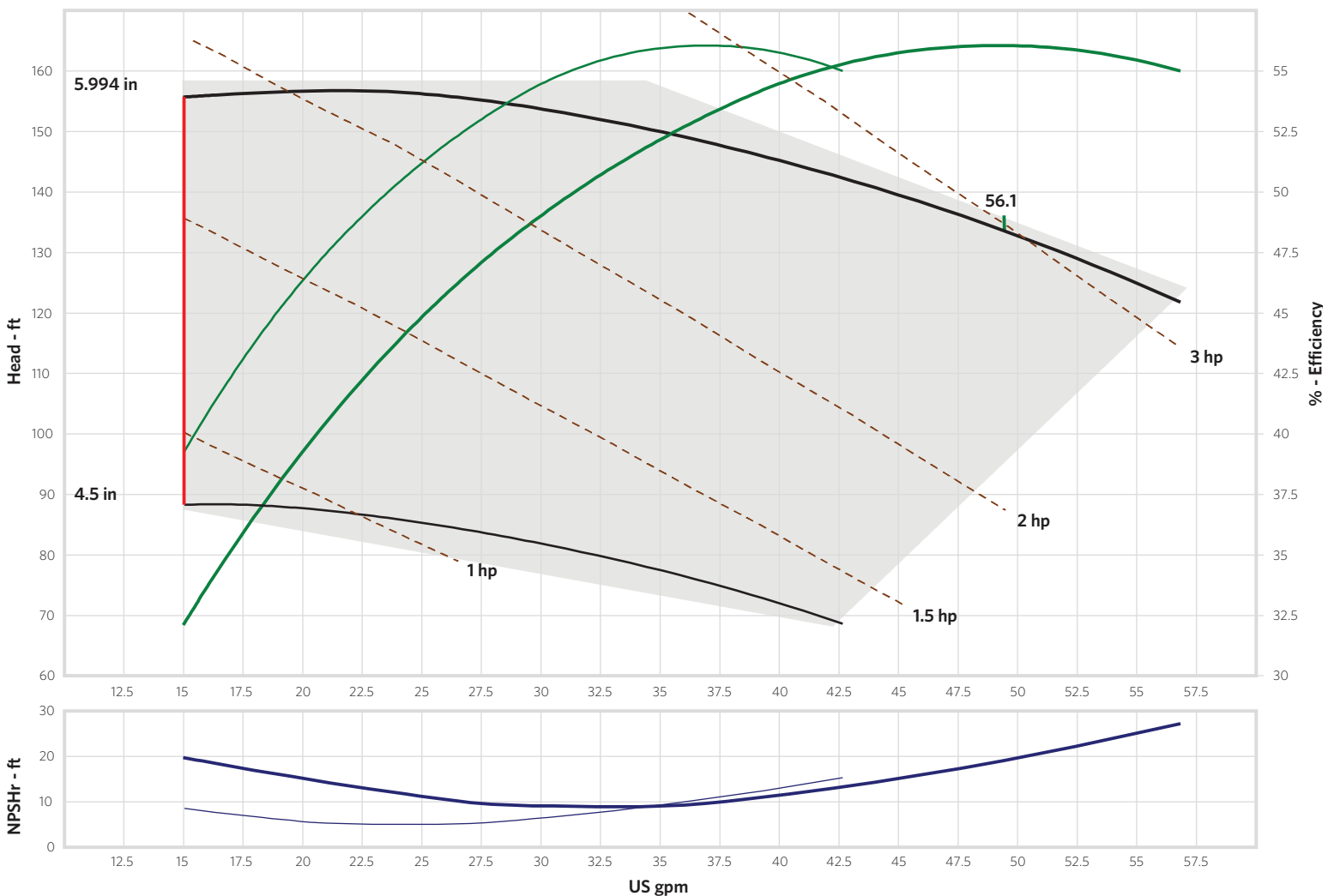
Performance Envelope

- 57 GPM
- 158' Head
- 56% Peak Efficiency

Advance® 3000 2 Pole Full / Minimum Diameter Performance Curve

Speed: 3550 rpm

Size: 3000.056



Pump:

Size: 056
 Type: Advance 3000
 Synch speed: 3600 rpm
 Curve: 011204-2
 Specific Speeds:
 Ns: 620
 Nss: ---
 Dimensions:
 Suction: 1.5 in
 Discharge: 0.75 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: 5 hp
 Speed: 3600
 Frame: 184T

Pump Limits:

Temperature: 180 °F
 Pressure: 100 psi g
 Sphere size: 0.3 in
 Power: ---
 Eye area: ---

---- Data Point ----

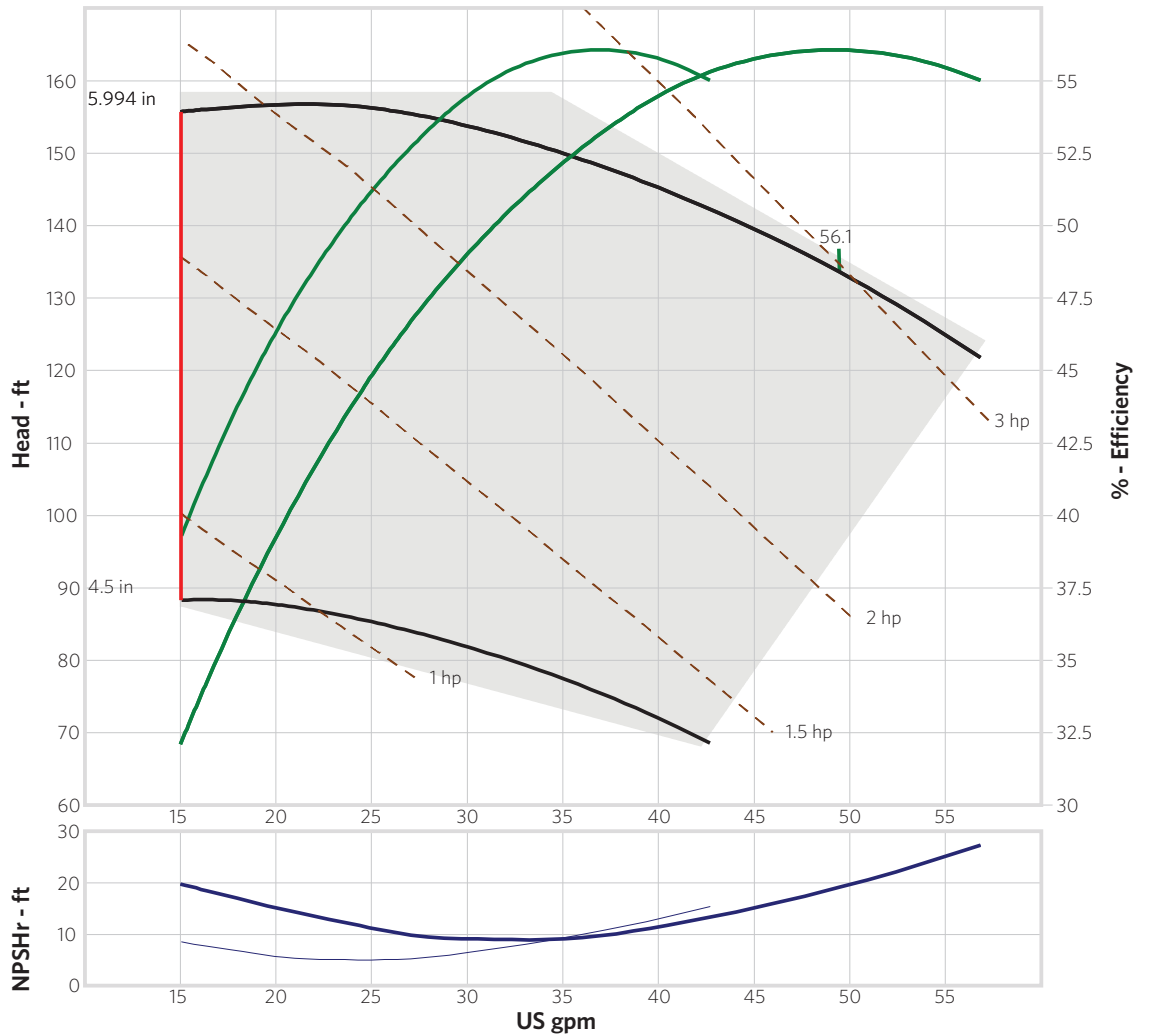
Flow: 49.4 US gpm
 Head: 134 ft
 Eff: 56.1%
 Power: 2.97 hp
 NPSHr: 19.2 ft

---- Design Curve ----

Shutoff head: 150 ft
 Shutoff dP: 65 psi
 Min flow: 15 US gpm
 BEP: 56.1% @ 49.4 US gpm
 NOL power: 3.18 hp @ 56.8 US gpm

-- Max Curve --

Max power: 3.18 hp @ 56.8 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
54.5	3550	125	55.3	3.11	24.7
45.4	3550	139	55.4	2.85	15.9
36.3	3550	149	52.8	2.58	9.52
27.2	3550	155	46.8	2.28	9.86
18.2	3550	156	36.5	1.95	16.9