

Company:
Name:
Date: 05/20/2024



Pump:

Size: 1x2-10
Type: 2196 ANSI
Synch Speed: 3600 rpm
Dia: 10 in
Curve: ---
Impeller: 96M101E

Dimensions:
Suction: 2 in
Discharge: 1 in

Fluid:

Name: Water
SG: 1
Density: 62.4 lb/ft³
Viscosity: 1.1 cP
Temperature: 60 °F

Vapor Pressure: 0.256 psi a
Atm Pressure: 14.7 psi a
Margin Ratio: 1

Search Criteria:

Flow: ---
Head: ---

Near Miss: ---
Static Head: 0 ft

Pump Limits:

Temperature: ---
Wkg Pressure: ---

Sphere Size: 0.43 in

Motor:

Standard: NEMA
Enclosure: TEFC
Frame: 324TS
Sizing Criteria: Max Power on Design Curve

Size: 40 hp
Speed: 3600 rpm

Pump Selection Warnings:

None

--- Duty Point ---

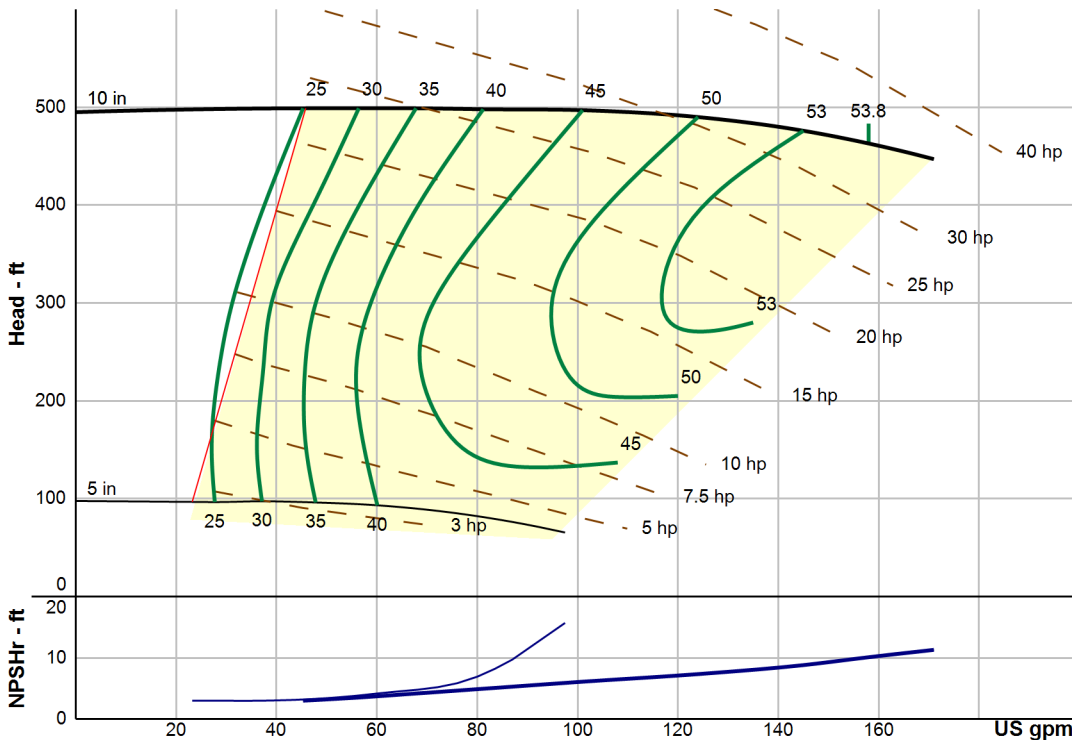
Flow: 158 US gpm
Head: 463 ft
Eff: 53.8%
Power: 34.4 hp
NPSHr: 10.1 ft
Speed: 3550 rpm

--- Design Curve ---

Shutoff Head: 495 ft
Shutoff dP: 214 psi
Min Flow: 45.8 US gpm
BEP: 53.8% @ 158 US gpm
NOL Power:
36.3 hp @ 171 US gpm

--- Max Curve ---

Max Power:
36.3 hp @ 171 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
164	3550	456	53.5	35.2	10.7
137	3550	481	51.9	32.1	8.25
110	3550	494	47	29.2	6.59
82.2	3550	498	40.3	25.7	5.01
54.8	3550	499	29.3	23.6	3.45