

Company:
Name:
Date: 05/21/2024



Pump:

Size: 4x6-10H
Type: 2196 ANSI
Synch Speed: 1800 rpm
Dia: 10.25 in
Curve: SPTL_96178SS4610H
Impeller: 96M101L

Dimensions:
Suction: 6 in
Discharge: 4 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

Pump Limits:

Temperature: ---
Wkg Pressure: ---
Sphere Size: 0.75 in

Motor:

Standard: NEMA
Enclosure: TEFC
Frame: 324T
Sizing Criteria: Max Power on Design Curve
Size: 40 hp
Speed: 1800 rpm

Search Criteria:

Flow: ---
Head: ---
Near Miss: ---
Static Head: 0 ft

Pump Selection Warnings:

None

--- Duty Point ---

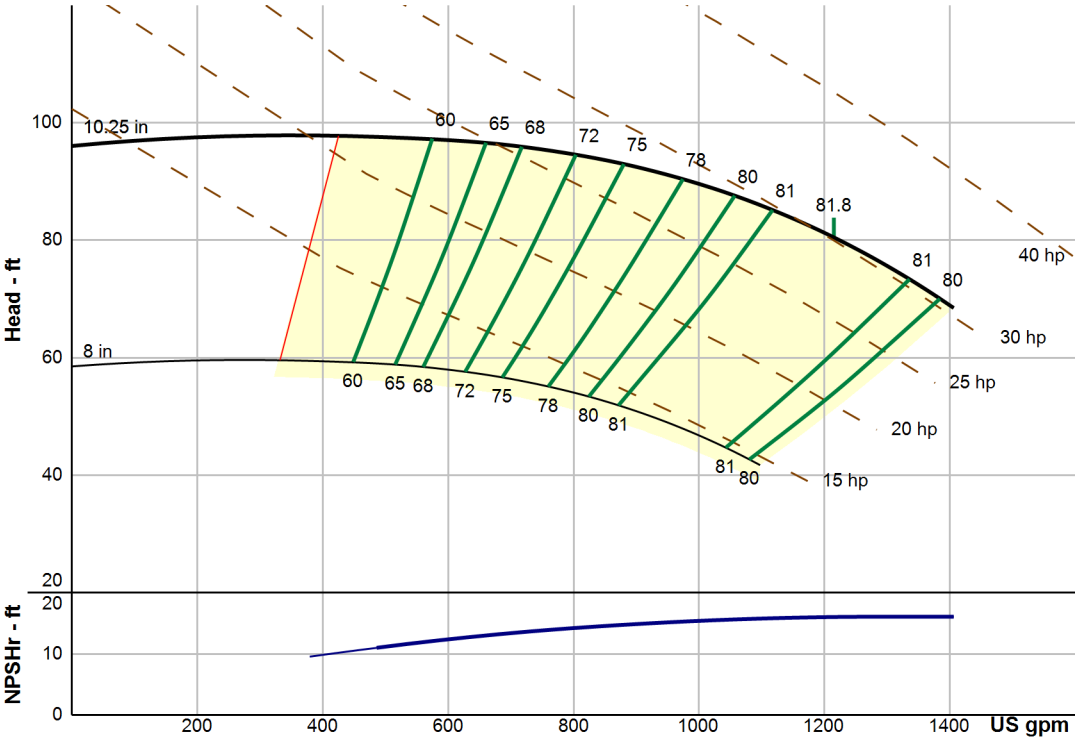
Flow: 1215 US gpm
Head: 80.5 ft
Eff: 81.8%
Power: 30.2 hp
NPSHr: 16 ft
Speed: 1780 rpm

--- Design Curve ---

Shutoff Head: 96.1 ft
Shutoff dP: 41.6 psi
Min Flow: 425 US gpm
BEP: 81.8% @ 1215 US gpm
NOL Power:
30.6 hp @ 1406 US gpm

--- Max Curve ---

Max Power:
30.6 hp @ 1406 US gpm



Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
1350	1780	72.4	80.7	30.6	16.1
1125	1780	84.7	80.9	29.7	15.8
900	1780	92.4	75.6	27.8	14.8
675	1780	96.2	65.4	24.9	13.1
450	1780	97.5	52	21.5	10.9