

Company:
Name:
Date: 03/07/2019



Pump:

Model: CD100 AI/AB Dimensions: Suction: 1.25 in
Type: CD100/CD150 Discharge: 1 in
Synch Speed: 3600 rpm
Dia: 4 in
Curve: CD001-1

Fluid:

Name: Water
SG: 1 Vapor Pressure: 0.256 psi a
Density: 62.4 lb/ft³ Atm Pressure: 14.7 psi a
Viscosity: 1.1 cP
Temperature: 60 °F

Search Criteria:

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

Pump Limits:

Temperature: 250 °F Sphere Size: 0.15 in
Wkg Pressure: 75 psi g

Motor:

Standard: NEMA Size: 1.5 hp
Enclosure: Std Speed: 3600 rpm
Frame: --
Sizing Criteria: Max Power on Design Curve

Pump Selection Warnings:

None

--- Duty Point ---

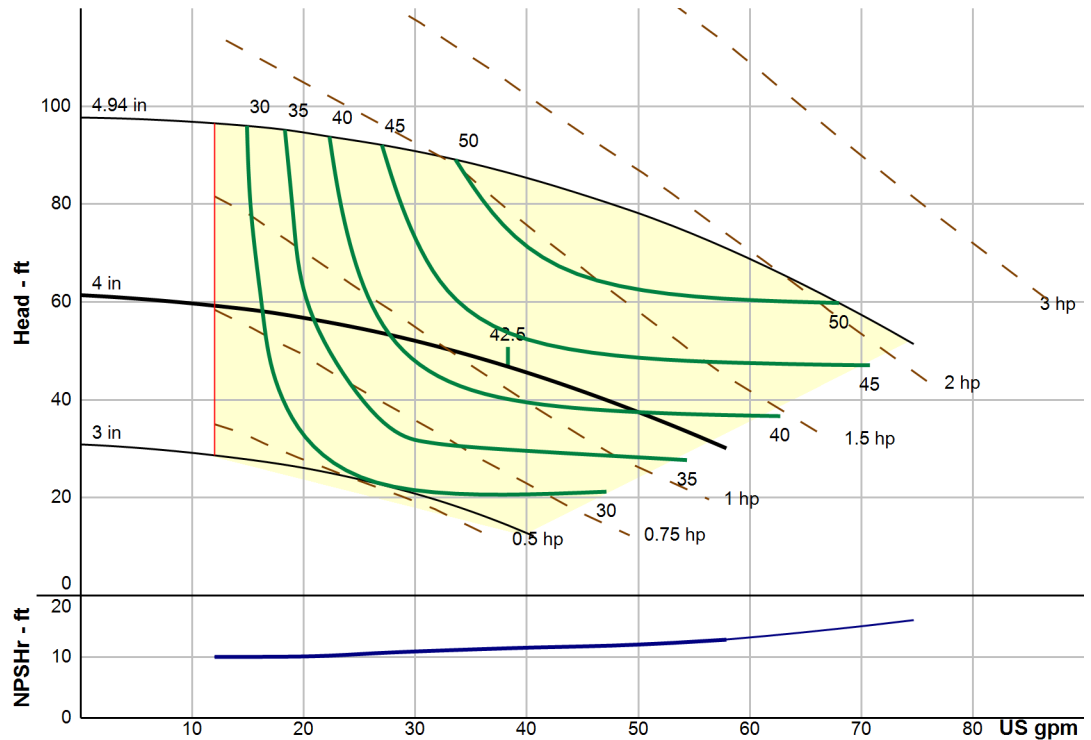
Flow: 38.3 US gpm
Head: 46.8 ft
Eff: 42.5%
Power: 1.07 hp
NPSHr: 11.4 ft
Speed: 3500 rpm

--- Design Curve ---

Shutoff Head: 61.4 ft
Shutoff dP: 26.6 psi
Min Flow: 12 US gpm
BEP: 42.5% @ 38.3 US gpm
NOL Power:
1.22 hp @ 57.9 US gpm

--- Max Curve ---

Max Power:
2.11 hp @ 74.7 US gpm



Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
55.6	3500	32.3	37.3	1.21	12.6
46.3	3500	40.4	40.8	1.15	11.8
37	3500	47.6	42.2	1.05	11.3
27.8	3500	53.2	40	0.933	10.7
18.5	3500	57.3	32.4	0.823	10