



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 9A-SH

Type: CC_ENDSUCTION

Sync speed: 3600 rpm

Curve: GP SSH/SSH-F

Specific Speeds:

Dimensions:

Speed: 3500 rpm

Dia: 6.625 in

Impeller:

Ns: ---

Nss: ---

Suction: 2 in

Discharge: 1 in

Pump Limits:

Temperature: 212 °F

Pressure: 230 psi g

Sphere size: 0.125 in

Power: 5 hp

Eye area: --- in²

Search Criteria:

Flow: --- US gpm

Head: --- ft

Fluid:

Water

Density: 62.25 lb/ft³

Viscosity: 1.105 cP

NPSHa: --- ft

Temperature: 60 °F

Vapor pressure: 0.2563 psi a

Atm pressure: 14.7 psi a

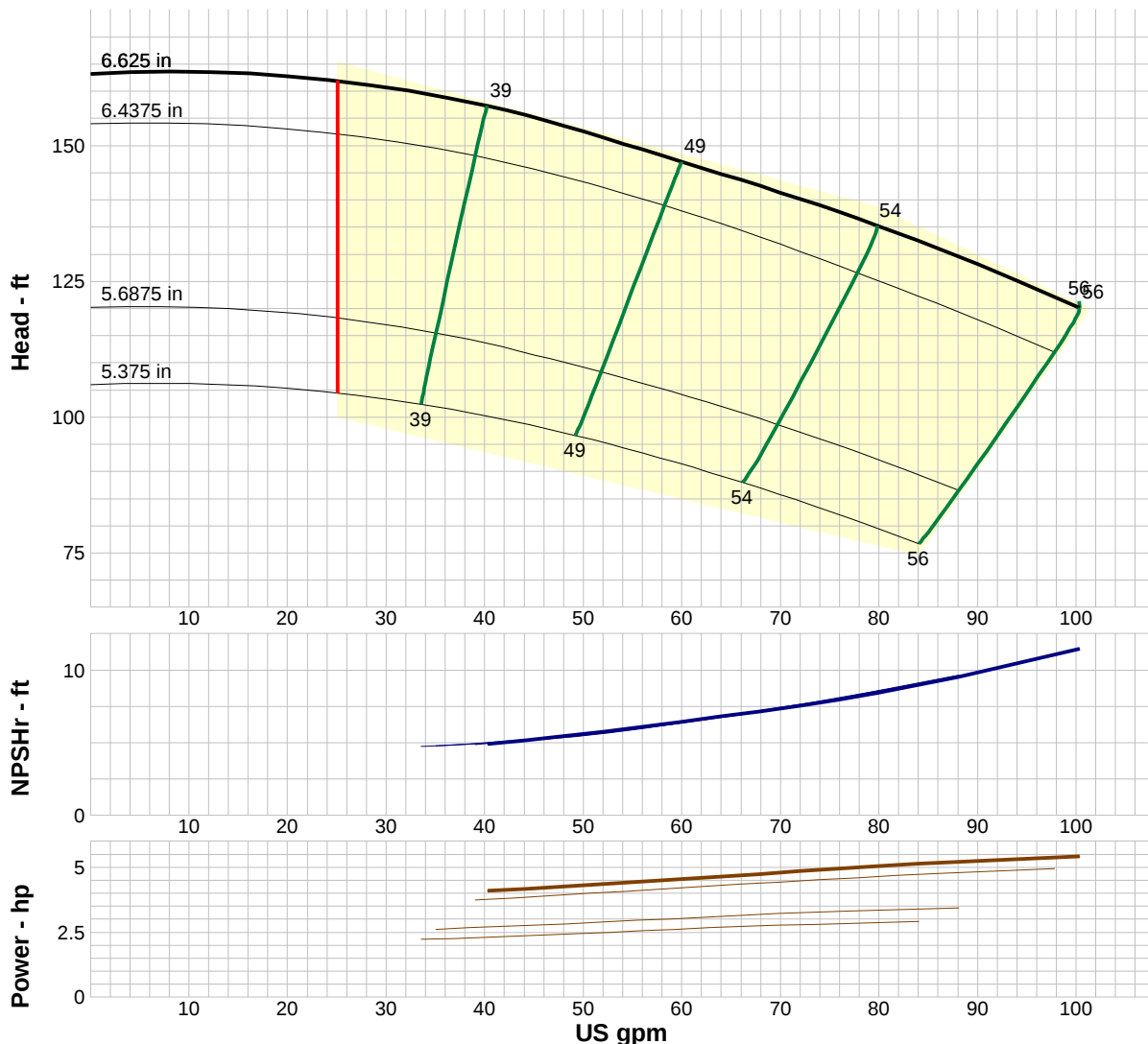
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	100 US gpm
Head:	120 ft
Eff:	56%
Power:	5.43 hp
NPSHr:	11.4 ft
---- Design Curve ----	
Shutoff head:	163 ft
Shutoff dP:	70.5 psi
Min flow:	25 US gpm
BEP:	56% @ 100 US gpm
NOL power:	5.43 hp @ 100 US gpm
-- Max Curve --	
Max power:	5.43 hp @ 100 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
96.2	3500	123	56	5.35	10.9
80.2	3500	135	54	5.05	8.51
64.2	3500	144	50	4.65	6.87
48.1	3500	153	43	4.27	5.52
32.1	3500	158	35	3.91	4.27