

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3656LH 5x5-6
 Type: CC_ENDSUCTION_C
 Synch speed: 1800 rpm
 Curve: Goulds 3656
 Specific Speeds:
 Dimensions:
 Speed: 1725 rpm
 Line: 5.5 x 4.5 DIA.
 Impeller:
 Ns: ---
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: --- °F
 Pressure: --- psi g
 Sphere size: 0.15625 in
 Power: 1.5 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

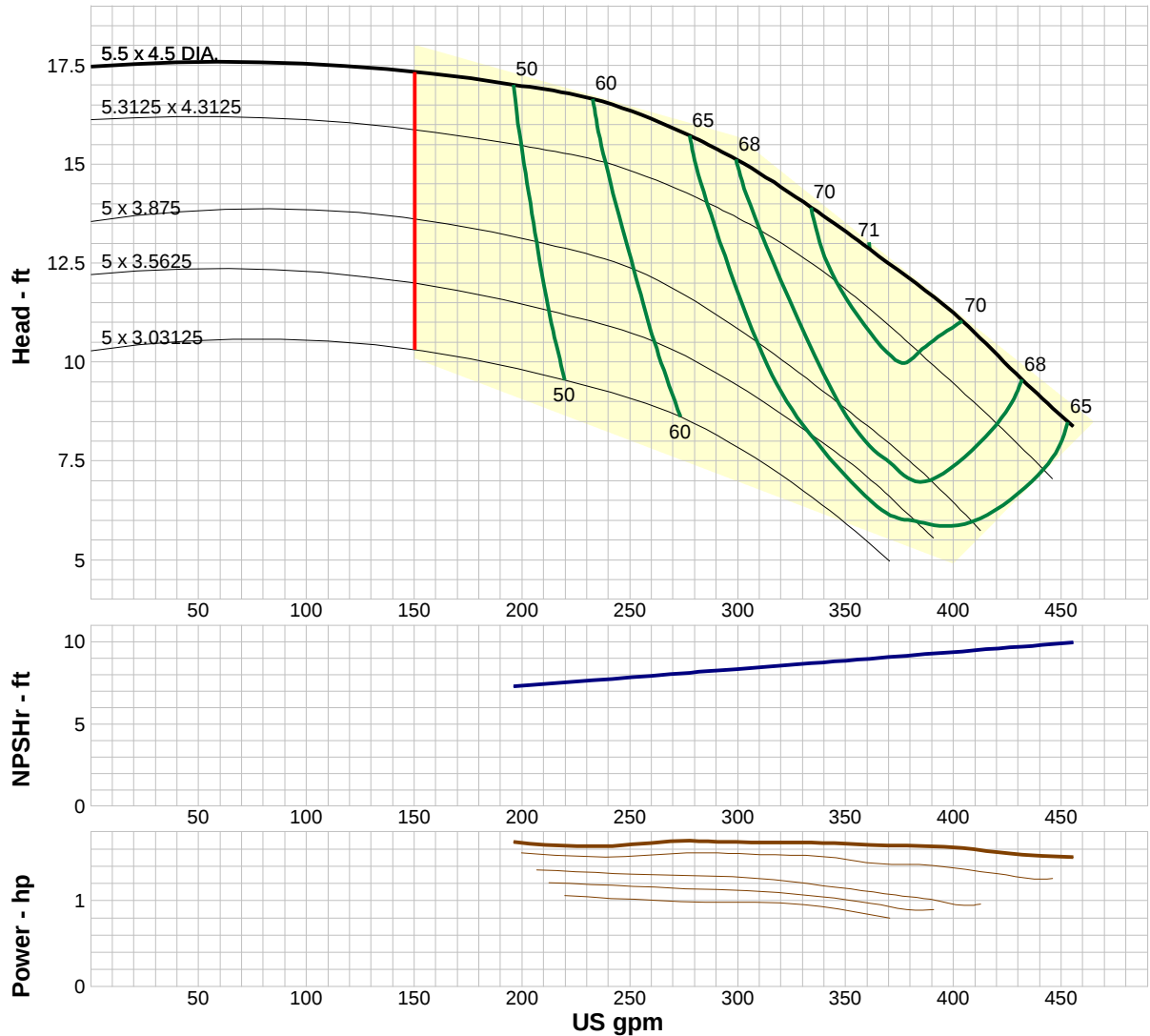
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	361 US gpm
Head:	12.8 ft
Eff:	71%
Power:	1.65 hp
NPSHr:	8.99 ft
---- Design Curve ----	
Shutoff head:	17.5 ft
Shutoff dP:	7.55 psi
Min flow:	150 US gpm
BEP:	71% @ 361 US gpm
NOL power:	1.74 hp @ 150 US gpm
-- Max Curve --	
Max power:	1.74 hp @ 150 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
437	1725	9.29	67	1.53	9.78
364	1725	12.7	71	1.65	9.02
291	1725	15.3	67	1.69	8.27
218	1725	16.8	56	1.65	7.52
146	1725	---	---	---	---