

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3656LH 5x5-6
 Type: CC_ENDSUCTION_C
 Synch speed: 3600 rpm
 Curve: Goulds 3656
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Line: 5.5 x 4.5 DIA.
 Impeller:
 Ns: ---
 Nss: ---
 Suction: --- in
 Discharge: --- in

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.

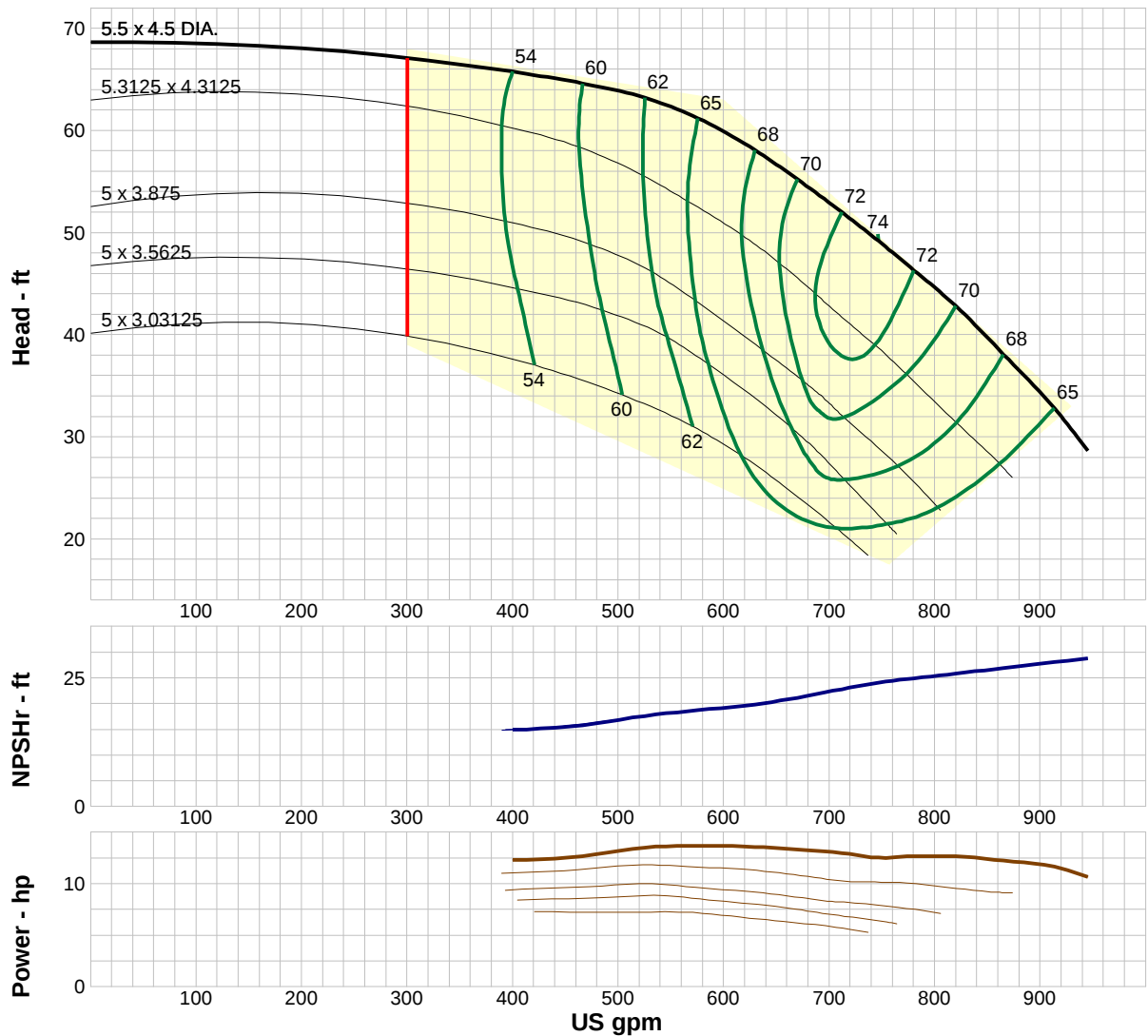
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: --- °F
 Pressure: --- psi g
 Sphere size: 0.15625 in
 Power: 7.5 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	746 US gpm
Head:	49.2 ft
Eff:	74%
Power:	12.5 hp
NPSHr:	24.1 ft
---- Design Curve ----	
Shutoff head:	68.6 ft
Shutoff dP:	29.7 psi
Min flow:	300 US gpm
BEP:	74% @ 746 US gpm
NOL power:	13.7 hp @ 575 US gpm
-- Max Curve --	
Max power:	13.7 hp @ 575 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
907	3450	33.5	65	11.7	27.9
756	3450	48.3	73	12.6	24.3
605	3450	59.5	67	13.6	19.3
454	3450	64.8	59	12.6	15.7
302	3450	66.4	45	11.7	13.5