

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3656/3756-2
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP3656LH/3756LH
 Specific Speeds:
 Dimensions:
 Speed: 1725 rpm
 Dia: 4 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 2 in
 Discharge: 2 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.

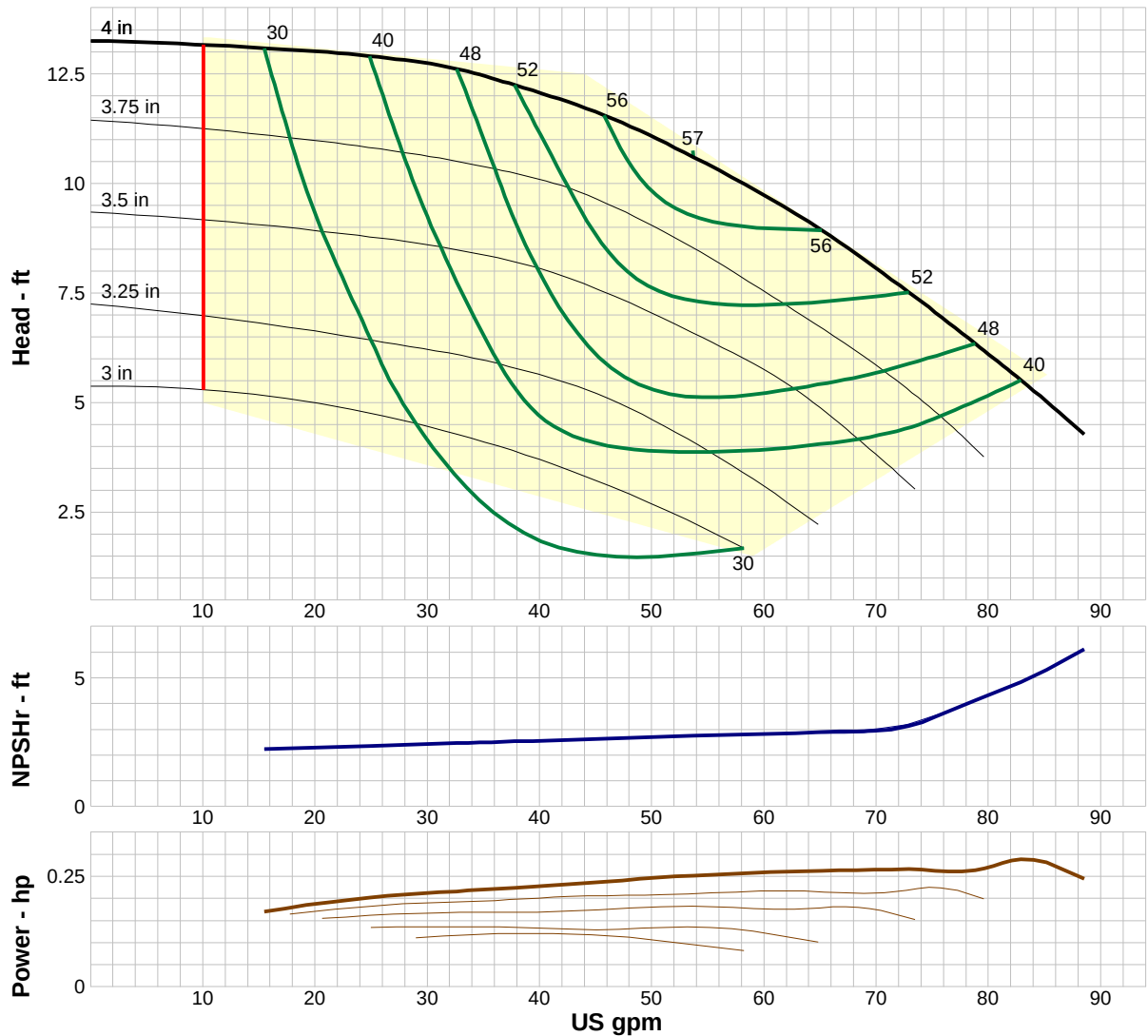
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 175 psi g
 Sphere size: --- in
 Power: 0.25 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	53.7 US gpm
Head:	10.6 ft
Eff:	57%
Power:	0.252 hp
NPSHr:	2.75 ft
---- Design Curve ----	
Shutoff head:	13.3 ft
Shutoff dP:	5.73 psi
Min flow:	10 US gpm
BEP:	57% @ 53.7 US gpm
NOL power:	0.288 hp @ 82.9 US gpm
-- Max Curve --	
Max power:	0.288 hp @ 82.9 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
85	1725	5.05	40	0.272	5.32
70.8	1725	7.89	53	0.265	3.07
56.6	1725	10.2	57	0.255	2.79
42.5	1725	11.8	54	0.233	2.6
28.3	1725	12.8	44	0.208	2.4