

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 3656/3756-2

Type: CC_ENDSUCTION_C

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

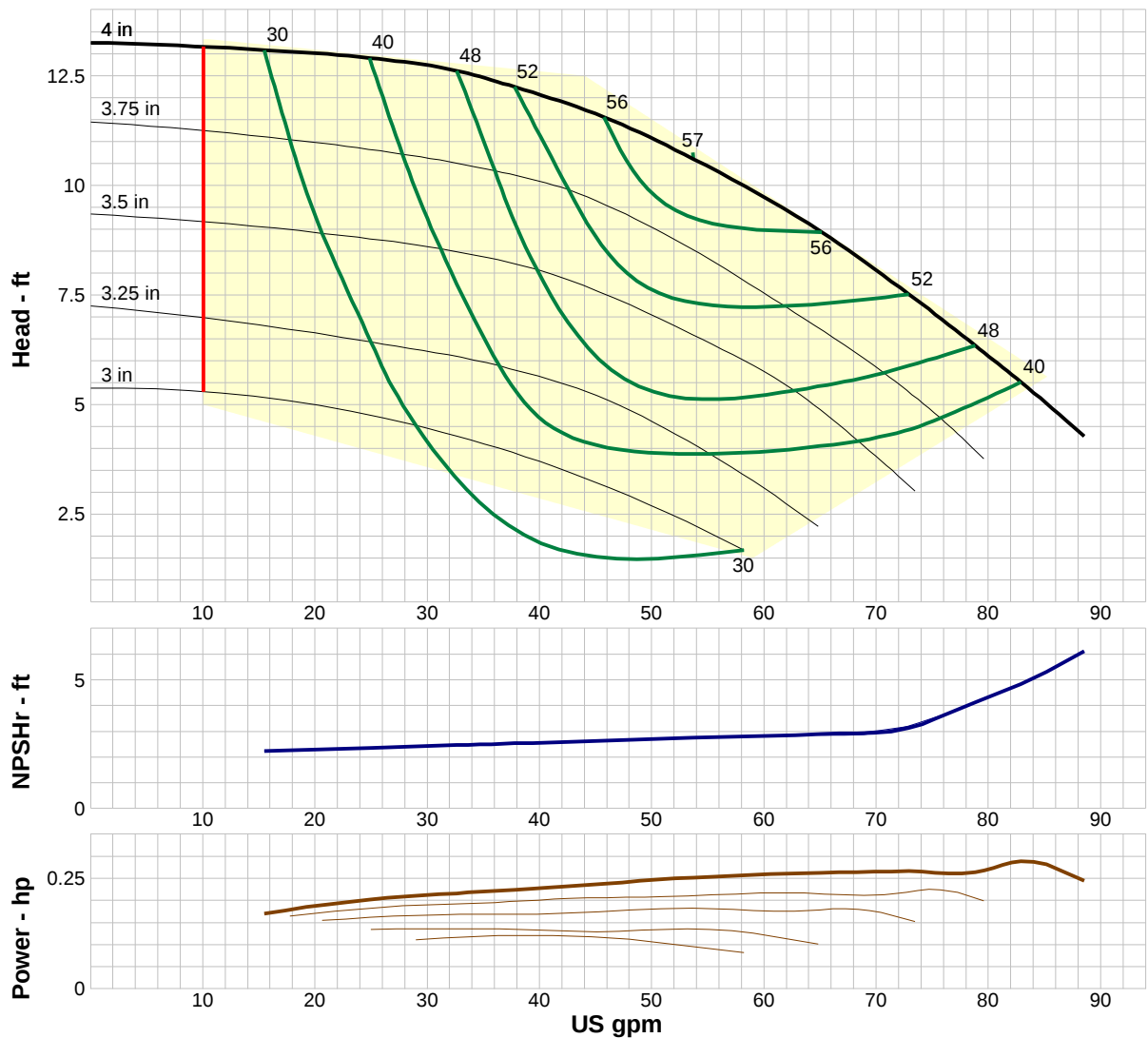
Pressure: 175 psi g

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