

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 8SH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 8.25 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 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.

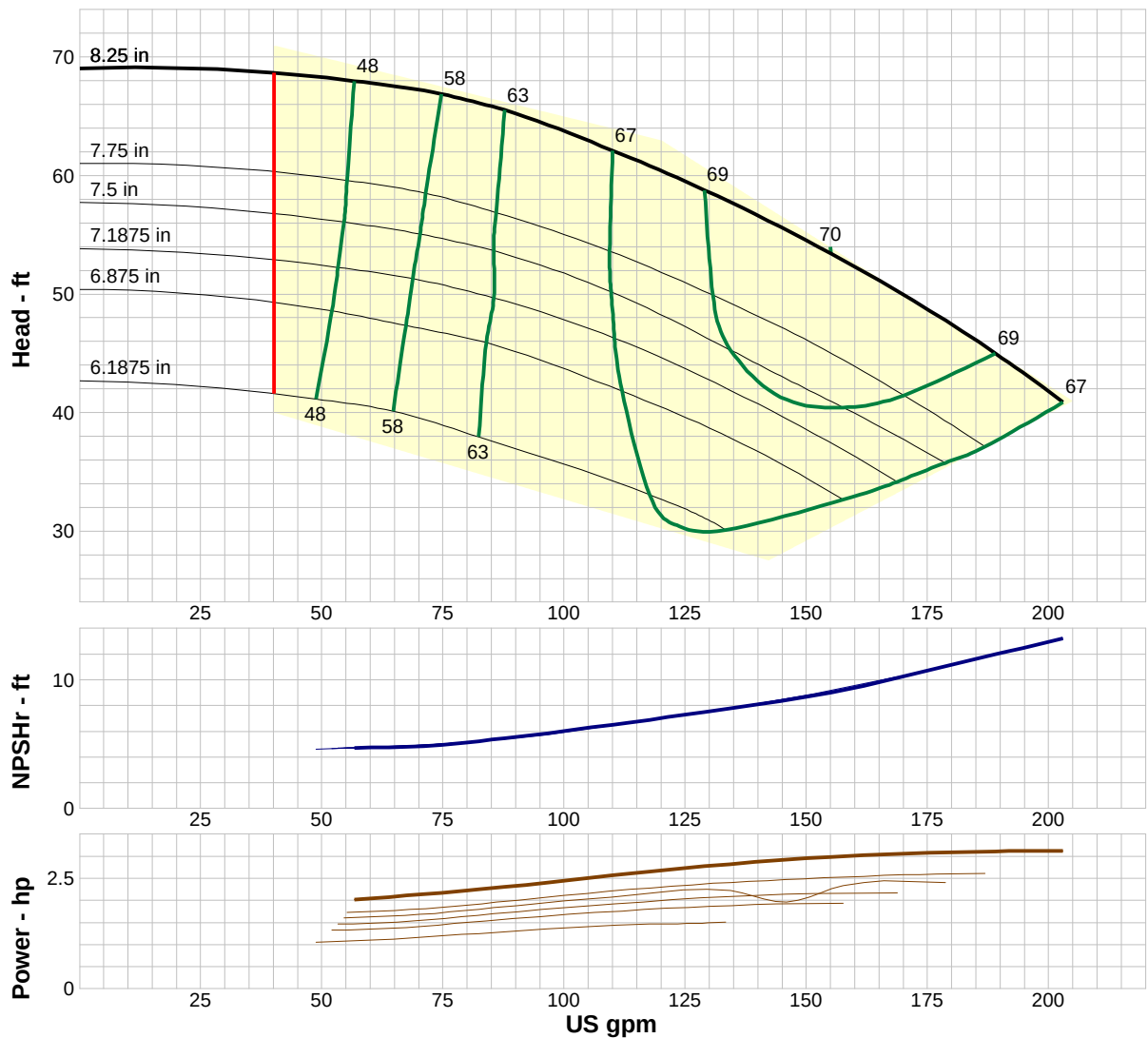
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.1562 in
Power: 3 hp
Eye area: --- in²

---- Data Point ----	
Flow:	155 US gpm
Head:	53.4 ft
Eff:	70%
Power:	2.99 hp
NPSHr:	9.02 ft
---- Design Curve ----	
Shutoff head:	69 ft
Shutoff dP:	29.8 psi
Min flow:	40 US gpm
BEP:	70% @ 155 US gpm
NOL power:	3.12 hp @ 203 US gpm
-- Max Curve --	
Max power:	3.12 hp @ 203 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
194	1750	43.5	68	3.12	12.4
162	1750	51.7	70	3.01	9.63
130	1750	58.5	69	2.78	7.56
97.2	1750	64.1	65	2.42	5.91
64.8	1750	67.5	53	2.09	4.83