

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 7SH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 8.25 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 1.5 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.

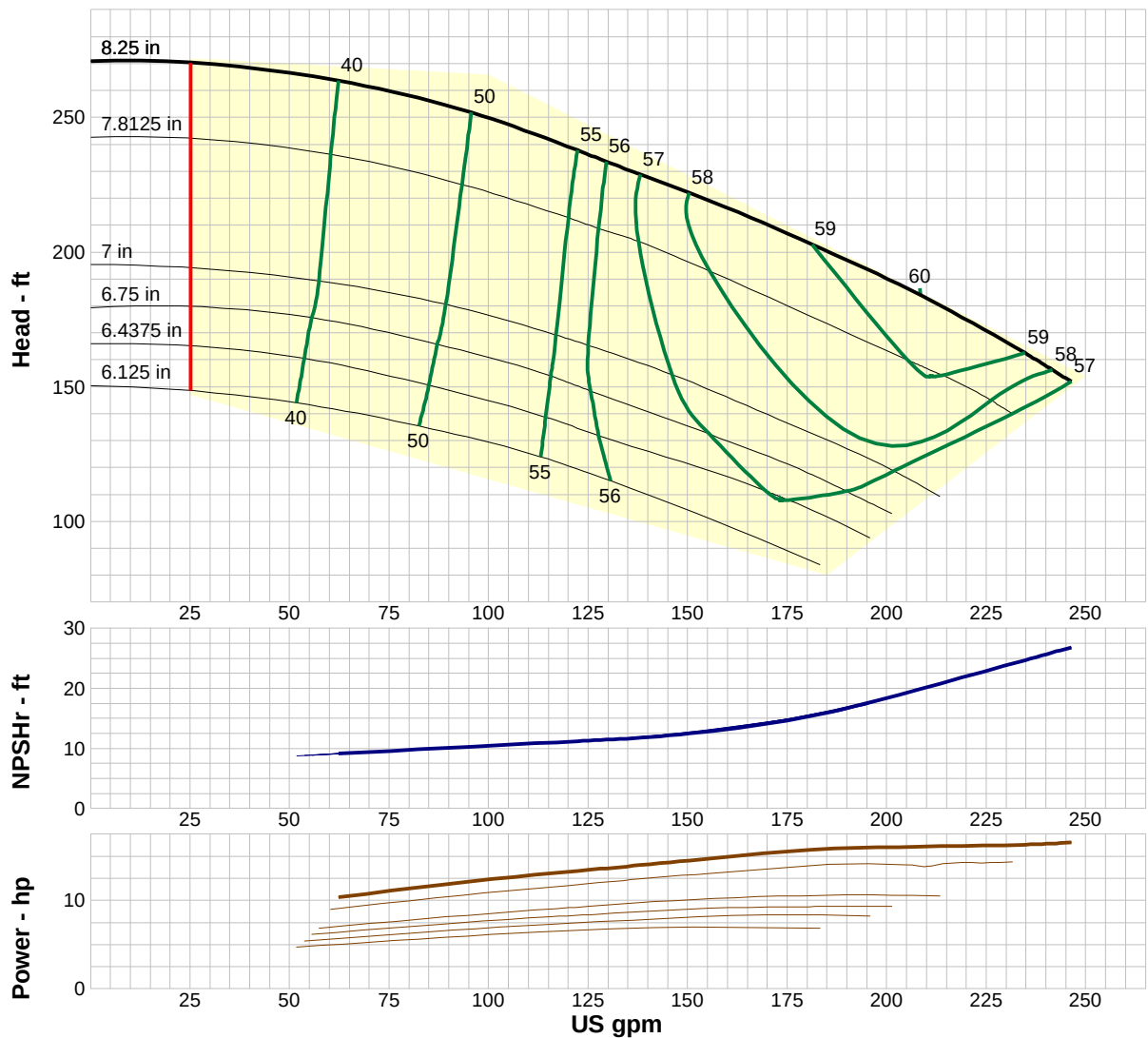
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.375 in
Power: 15 hp
Eye area: --- in²

---- Data Point ----	
Flow:	208 US gpm
Head:	184 ft
Eff:	60%
Power:	16.1 hp
NPSHr:	19.8 ft
---- Design Curve ----	
Shutoff head:	271 ft
Shutoff dP:	117 psi
Min flow:	25 US gpm
BEP:	60% @ 208 US gpm
NOL power:	16.6 hp @ 246 US gpm
-- Max Curve --	
Max power:	16.6 hp @ 246 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
236	3500	161	59	16.3	25
197	3500	192	60	15.9	18
158	3500	217	58	14.8	13.2
118	3500	240	54	13.2	11.1
78.8	3500	258	45	11.2	9.72