

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 4SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 4SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 6.75 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.

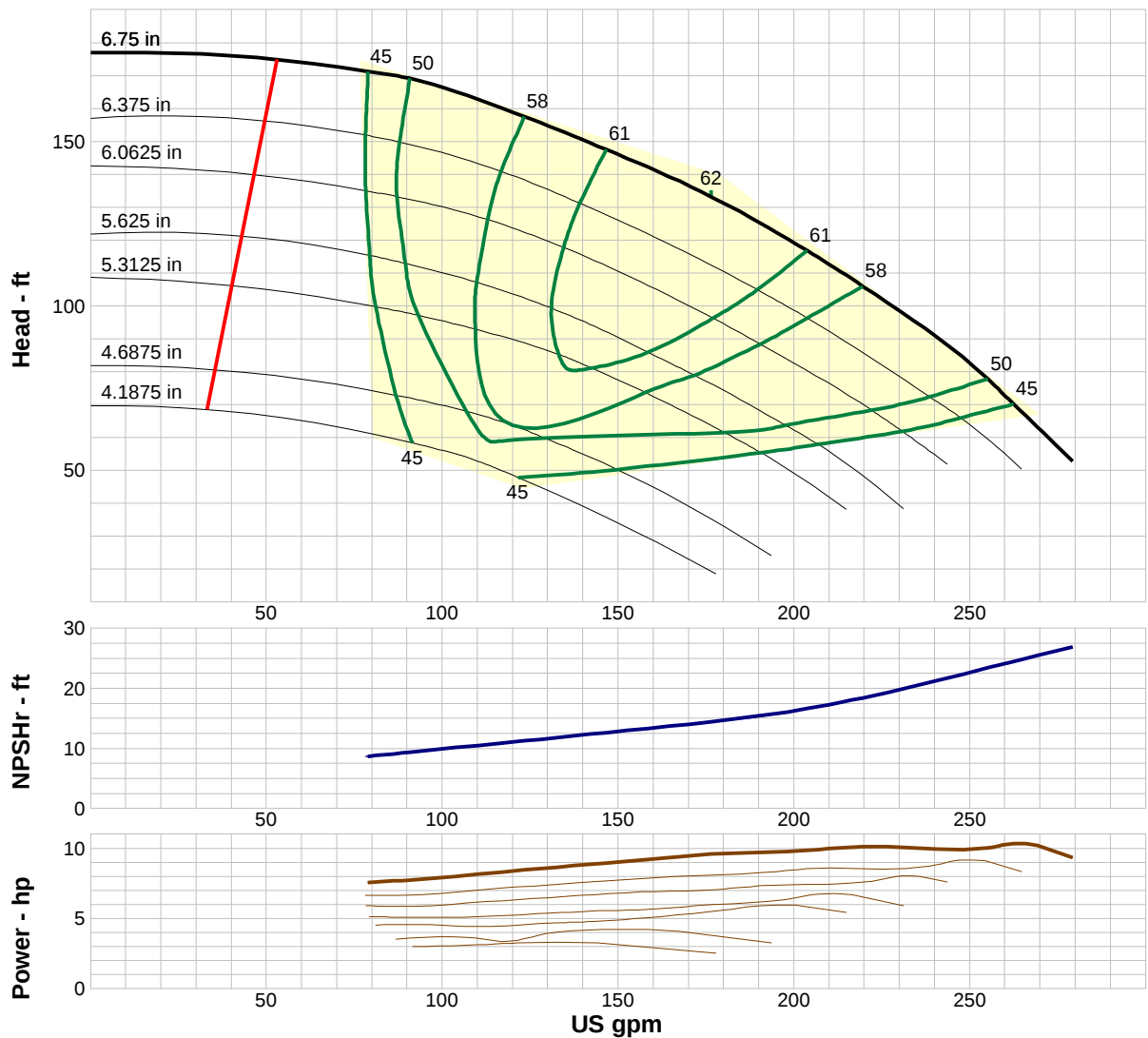
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1875 in
Power: 10 hp
Eye area: --- in²

---- Data Point ----	
Flow:	176 US gpm
Head:	133 ft
Eff:	62%
Power:	9.56 hp
NPSHr:	14.4 ft
---- Design Curve ----	
Shutoff head:	177 ft
Shutoff dP:	76.5 psi
Min flow:	52.9 US gpm
BEP:	62% @ 176 US gpm
NOL power:	10.3 hp @ 262 US gpm
-- Max Curve --	
Max power:	10.3 hp @ 262 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
268	3500	64.3	43	9.99	25.3
223	3500	103	57	10.1	18.9
178	3500	132	62	9.59	14.6
134	3500	153	59	8.68	11.9
89.2	3500	169	49	7.72	9.3