



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 4BF
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: GP 3656/3756
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 7.0625 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 3 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.

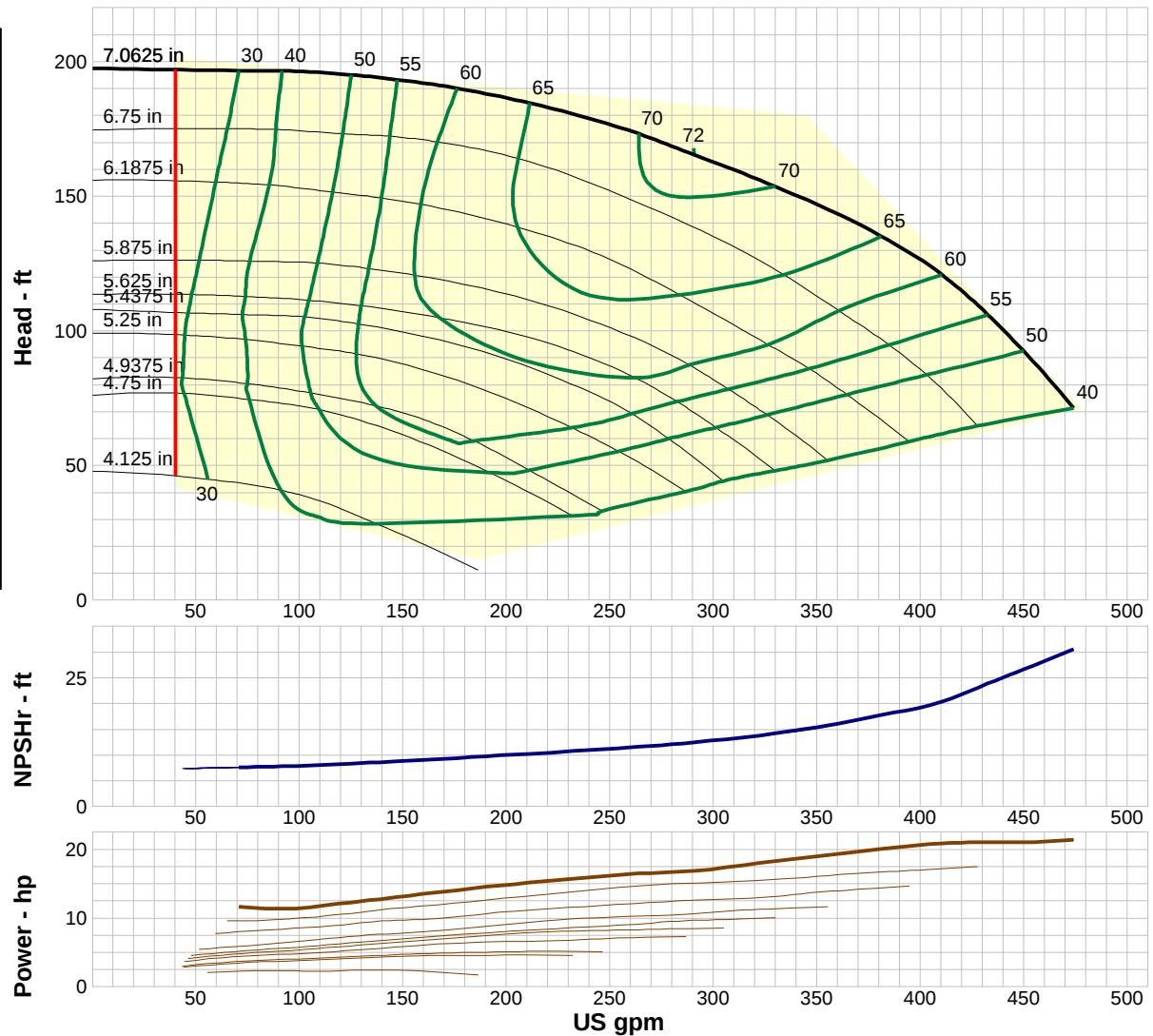
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.4375 in
Power: 20 hp
Eye area: --- in²

---- Data Point ----	
Flow:	291 US gpm
Head:	165 ft
Eff:	72%
Power:	16.9 hp
NPSHr:	12.5 ft
---- Design Curve ----	
Shutoff head:	198 ft
Shutoff dP:	85.4 psi
Min flow:	40 US gpm
BEP:	72% @ 291 US gpm
NOL power:	21.4 hp @ 474 US gpm
-- Max Curve --	
Max power:	21.4 hp @ 474 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
455	3500	88	48	21.1	27.5
379	3500	136	65	19.9	17.6
303	3500	162	71	17.3	13
227	3500	181	67	15.5	10.7
152	3500	193	56	13.2	8.93