

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 4SFH
Type: CC_ENDSUCTION_C
Synch speed: 1800 rpm
Curve: Goulds 4SFH
Specific Speeds:
Dimensions:
Speed: 1750 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.

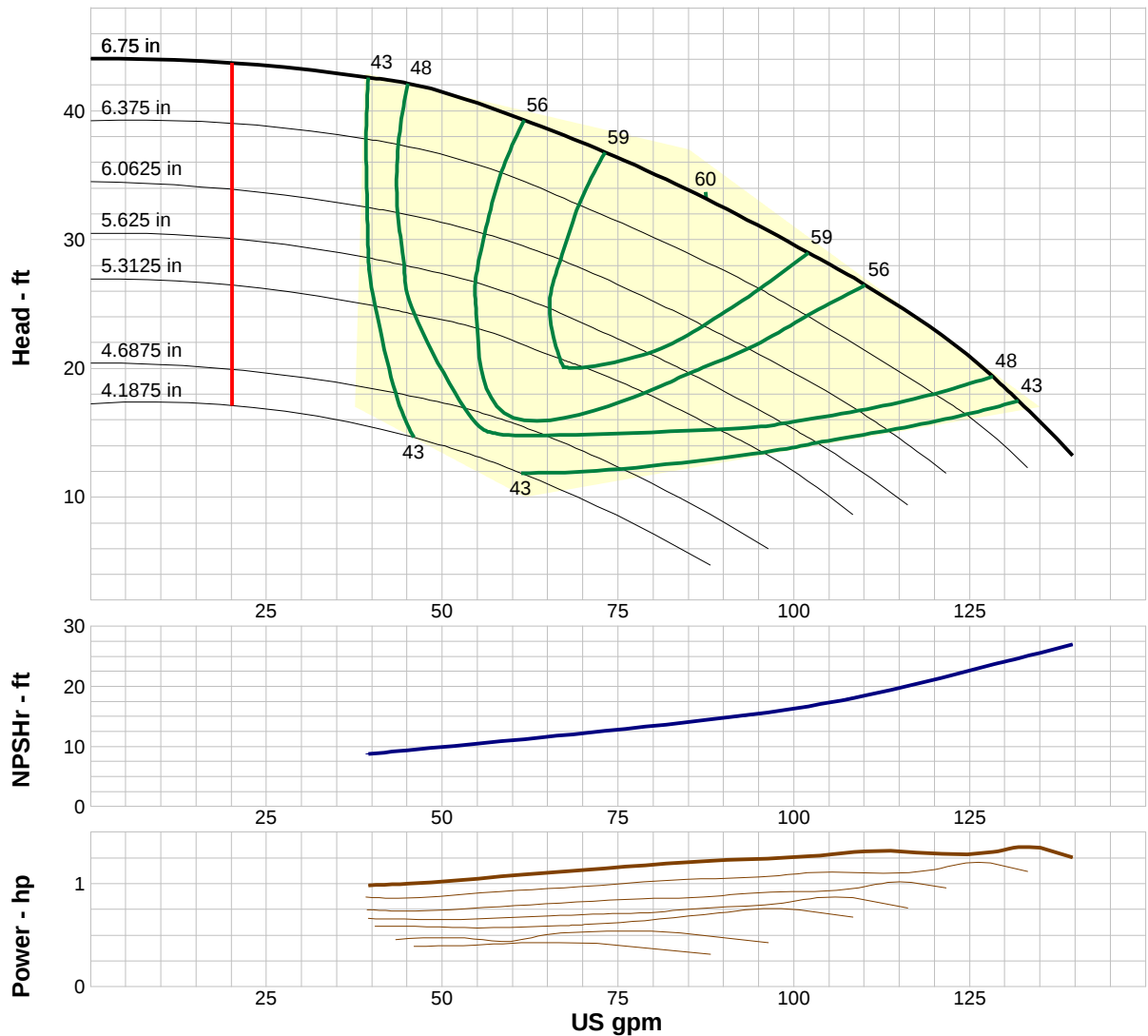
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1875 in
Power: 1.25 hp
Eye area: --- in²

---- Data Point ----	
Flow:	87.5 US gpm
Head:	33.2 ft
Eff:	60%
Power:	1.22 hp
NPSHr:	14.4 ft
---- Design Curve ----	
Shutoff head:	44.1 ft
Shutoff dP:	19 psi
Min flow:	20 US gpm
BEP:	60% @ 87.5 US gpm
NOL power:	1.35 hp @ 132 US gpm
-- Max Curve --	
Max power:	1.35 hp @ 132 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
134	1750	16.3	41	1.33	25.3
112	1750	25.7	55	1.31	19
89.6	1750	32.6	60	1.23	14.7
67.2	1750	38.1	57	1.12	11.9
44.8	1750	42.2	48	0.998	9.35