

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 4SH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: GP SSH/SSH-F
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 6.75 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 1.5 in

Pump Limits:

Temperature: 212 °F
Pressure: 230 psi g
Sphere size: 0.1875 in
Power: 1 hp
Eye area: --- in²

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

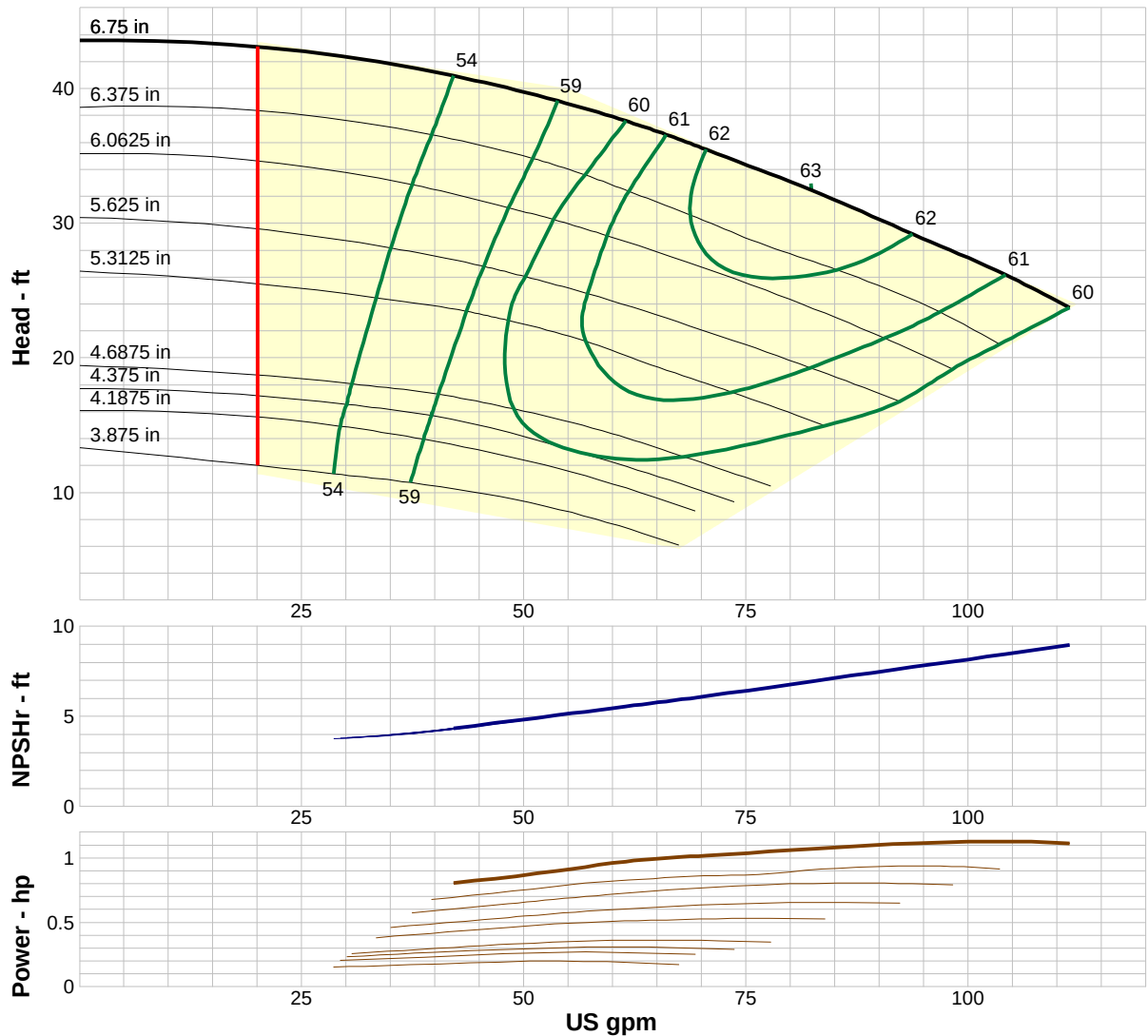
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	82.3 US gpm
Head:	32.5 ft
Eff:	63%
Power:	1.07 hp
NPSHr:	6.95 ft
---- Design Curve ----	
Shutoff head:	43.6 ft
Shutoff dP:	18.8 psi
Min flow:	20 US gpm
BEP:	63% @ 82.3 US gpm
NOL power:	1.13 hp @ 104 US gpm
-- Max Curve --	
Max power:	1.13 hp @ 104 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
107	1750	25.2	61	1.12	8.66
89.1	1750	30.5	62	1.1	7.42
71.3	1750	35.3	62	1.02	6.19
53.5	1750	39.1	59	0.897	5.06
35.6	1750	41.3	51	0.753	3.94