

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 23SH2
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: Goulds SSH/SH
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 9.0625 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 4 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.

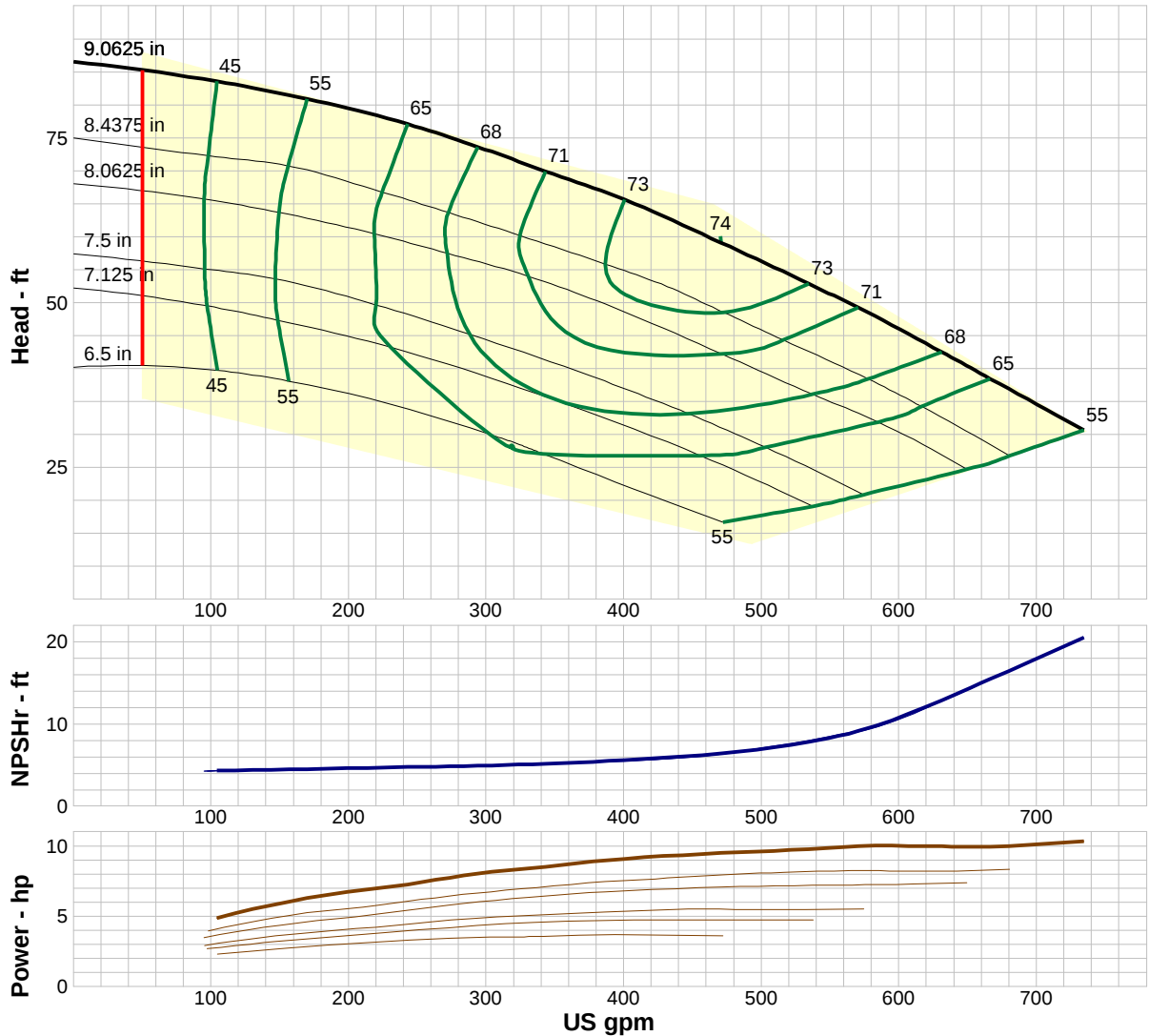
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.5 in
 Power: 10 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	471 US gpm
Head:	59 ft
Eff:	74%
Power:	9.49 hp
NPSHr:	6.43 ft
---- Design Curve ----	
Shutoff head:	86.5 ft
Shutoff dP:	37.4 psi
Min flow:	50 US gpm
BEP:	74% @ 471 US gpm
NOL power:	10.3 hp @ 734 US gpm
-- Max Curve --	
Max power:	10.3 hp @ 734 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
704	1750	34.1	59	10.2	18.3
587	1750	47.4	70	9.98	10.2
470	1750	59.1	74	9.48	6.42
352	1750	69.2	71	8.62	5.24
235	1750	77.5	64	7.16	4.73