

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 1SN
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: GP NPO/NPO-F
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 5.375 in
Impeller:
Ns: ---
Nss: ---
Suction: 1.25 in
Discharge: 1 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.

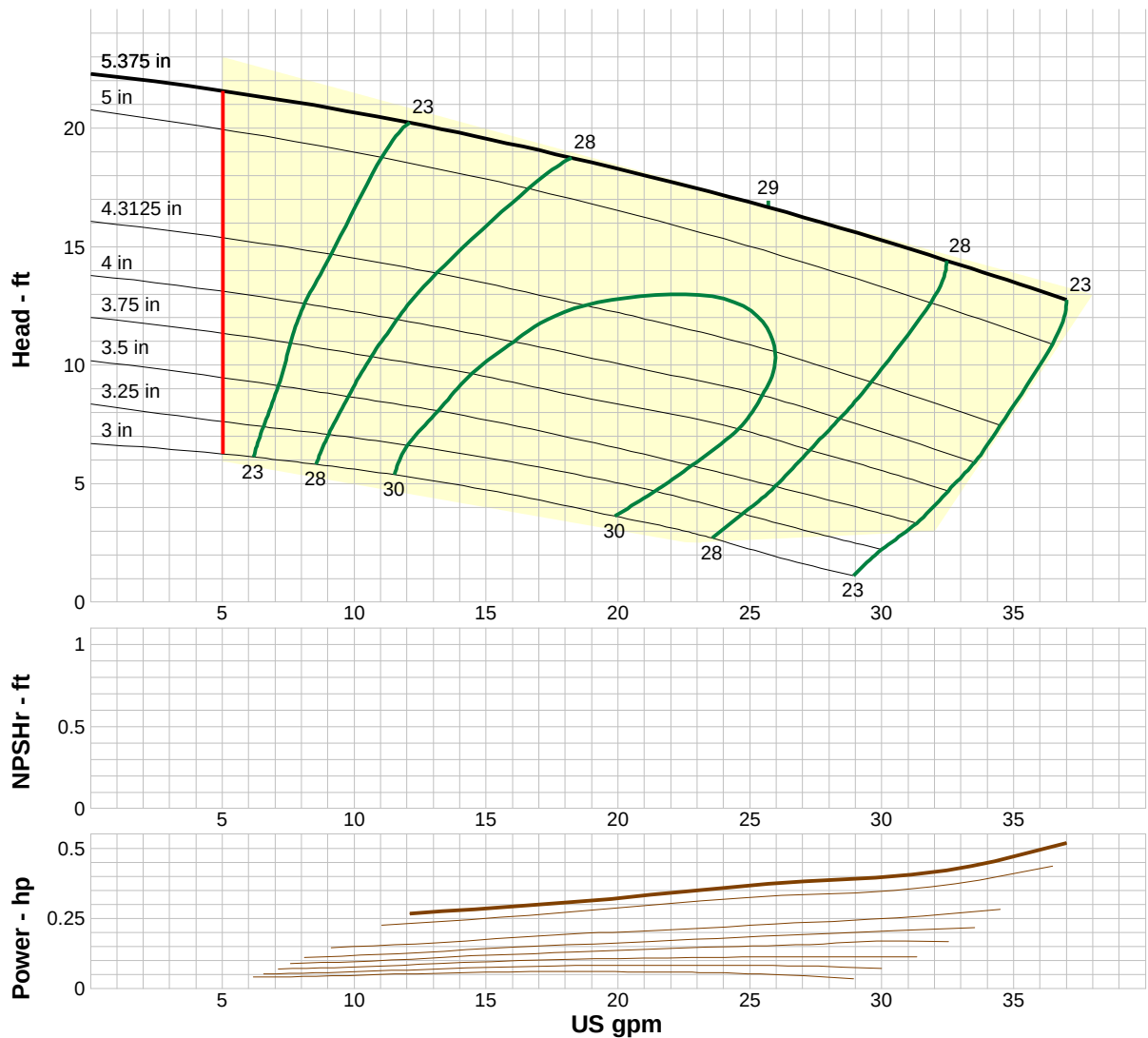
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 125 psi g
Sphere size: 0.375 in
Power: 0.5 hp
Eye area: --- in²

---- Data Point ----	
Flow:	25.7 US gpm
Head:	16.7 ft
Eff:	29%
Power:	0.374 hp
NPSHr:	--- ft
---- Design Curve ----	
Shutoff head:	22.3 ft
Shutoff dP:	9.64 psi
Min flow:	5 US gpm
BEP:	29% @ 25.7 US gpm
NOL power:	0.518 hp @ 37 US gpm
-- Max Curve --	
Max power:	0.518 hp @ 37 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
35.5	1750	13.3	25	0.486	---
29.6	1750	15.4	28	0.402	---
23.7	1750	17.2	29	0.356	---
17.8	1750	18.9	28	0.305	---
11.8	1750	20.3	23	0.266	---