

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 22SH
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP SSH/SSH-F
 Specific Speeds:
 Dimensions:
 Suction: 3 in
 Discharge: 2.5 in

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.5937 in
 Power: 7.5 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

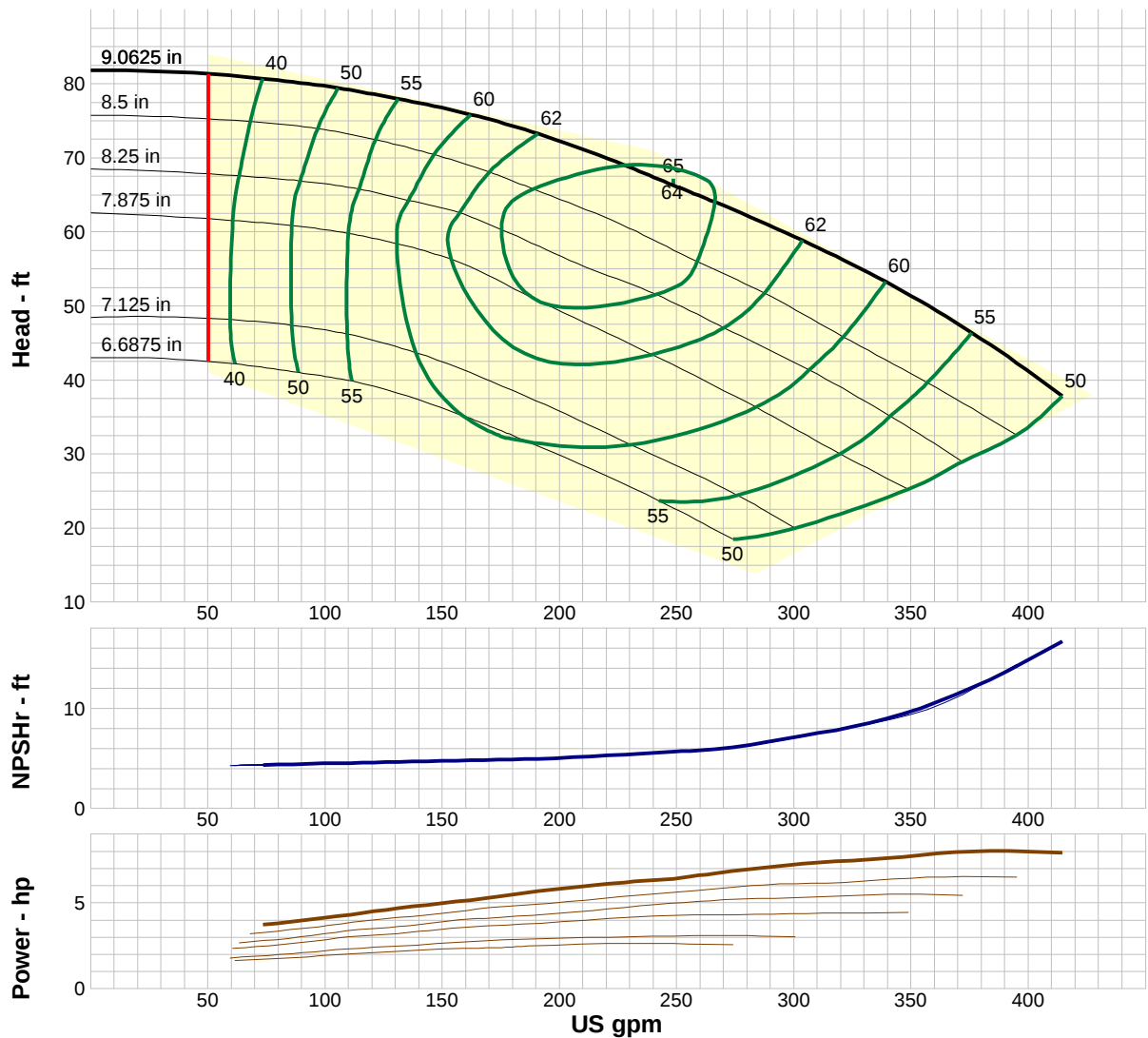
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	249 US gpm
Head:	66.2 ft
Eff:	65%
Power:	6.41 hp
NPSHr:	5.68 ft
---- Design Curve ----	
Shutoff head:	81.8 ft
Shutoff dP:	35.4 psi
Min flow:	50 US gpm
BEP:	65% @ 249 US gpm
NOL power:	8 hp @ 376 US gpm
-- Max Curve --	
Max power:	8 hp @ 376 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
397	1750	41.7	52	7.96	14.6
331	1750	54.5	60	7.53	8.57
265	1750	64.2	64	6.7	5.9
199	1750	72.3	62	5.8	5.07
132	1750	77.9	55	4.7	4.67