

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 27SH
 Type: CC_ENDSUCTION
 Synch speed: 1800 rpm
 Curve: GP SSH/SSH-F
 Specific Speeds:
 Dimensions:
 Speed: 1750 rpm
 Dia: 10.375 in
 Impeller:
 Ns: ---
 Nss: ---
 Suction: 3 in
 Discharge: 2.5 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

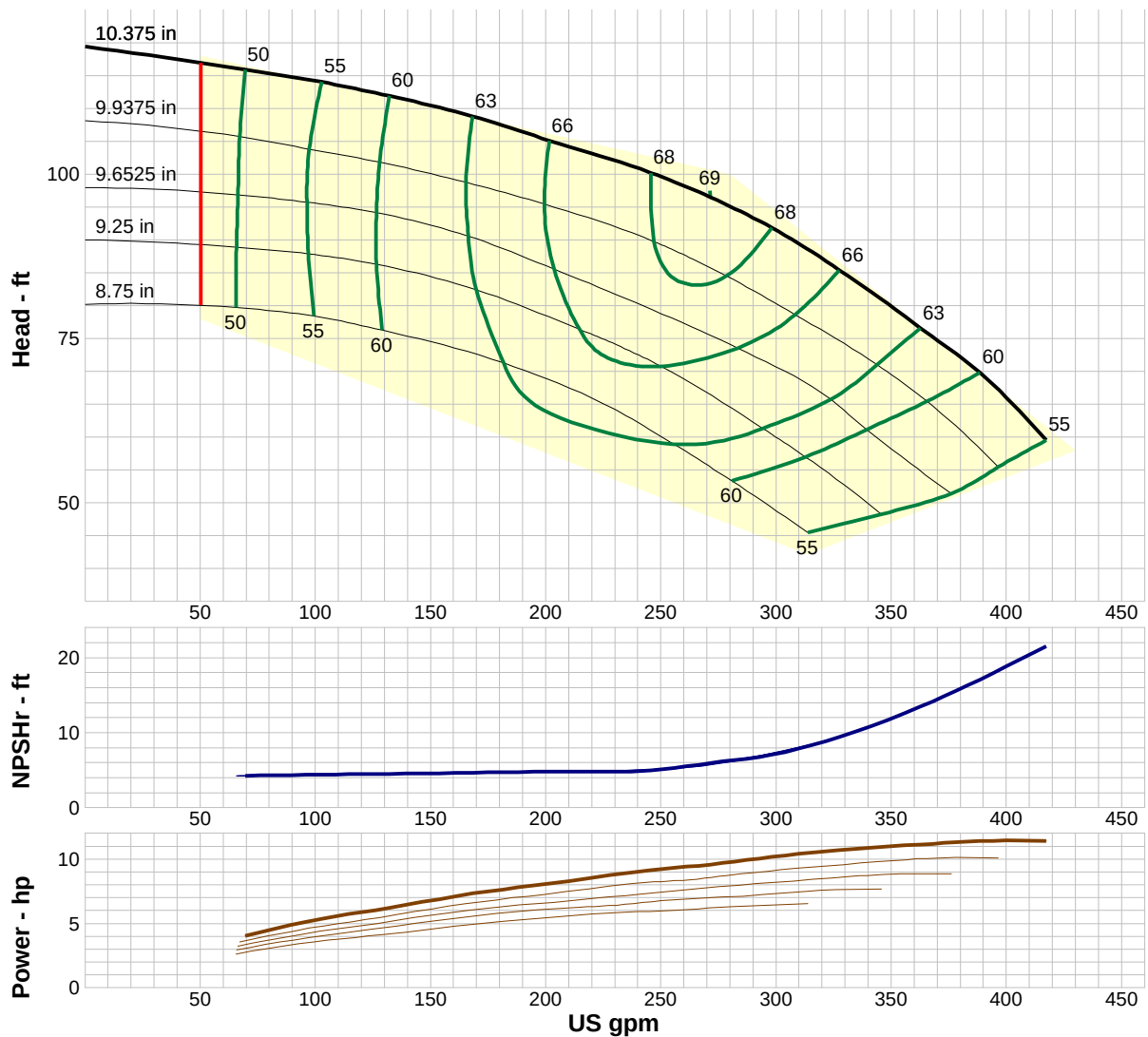
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.5937 in
 Power: 15 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	271 US gpm
Head:	96.5 ft
Eff:	69%
Power:	9.58 hp
NPSHr:	5.95 ft
---- Design Curve ----	
Shutoff head:	119 ft
Shutoff dP:	51.6 psi
Min flow:	50 US gpm
BEP:	69% @ 271 US gpm
NOL power:	11.4 hp @ 388 US gpm
-- Max Curve --	
Max power:	11.4 hp @ 388 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
401	1750	65.3	58	11.4	19
334	1750	83.7	65	10.8	10.2
267	1750	97.1	69	9.51	5.8
200	1750	105	66	8.06	4.81
134	1750	112	60	6.28	4.54