

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 27SH
 Type: CC_ENDSUCTION_C
 Synch speed: 3600 rpm
 Curve: GP SSH/SSH-F
 Specific Speeds:
 Dimensions:
 Speed: 3500 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

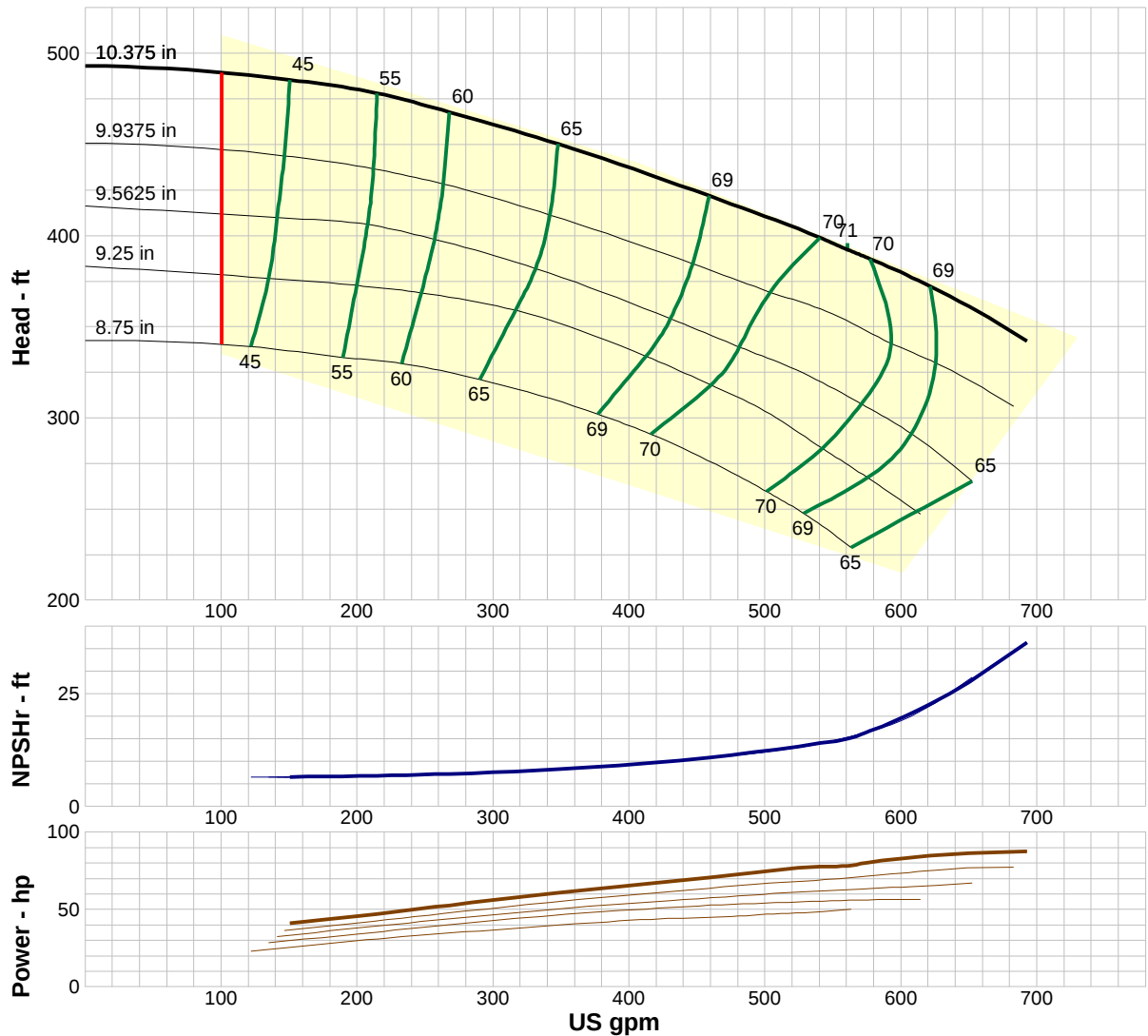
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.5937 in
 Power: 100 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	561 US gpm
Head:	392 ft
Eff:	71%
Power:	78.3 hp
NPSHr:	15.1 ft
---- Design Curve ----	
Shutoff head:	493 ft
Shutoff dP:	213 psi
Min flow:	100 US gpm
BEP:	71% @ 561 US gpm
NOL power:	87.8 hp @ 693 US gpm
-- Max Curve --	
Max power:	87.8 hp @ 693 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
665	3500	354	69	86.6	31.2
554	3500	394	71	78.1	14.7
443	3500	426	68	69.4	10.5
332	3500	454	64	59.2	8.13
222	3500	477	56	47.9	6.93