



Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump

Pump:

Size: 23SH-1
 Type: CC_ENDSUCTION_C
 Synch speed: 3600 rpm
 Curve: GP SSH/SSH-F
 Specific Speeds:
 Dimensions:
 Speed: 3500 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

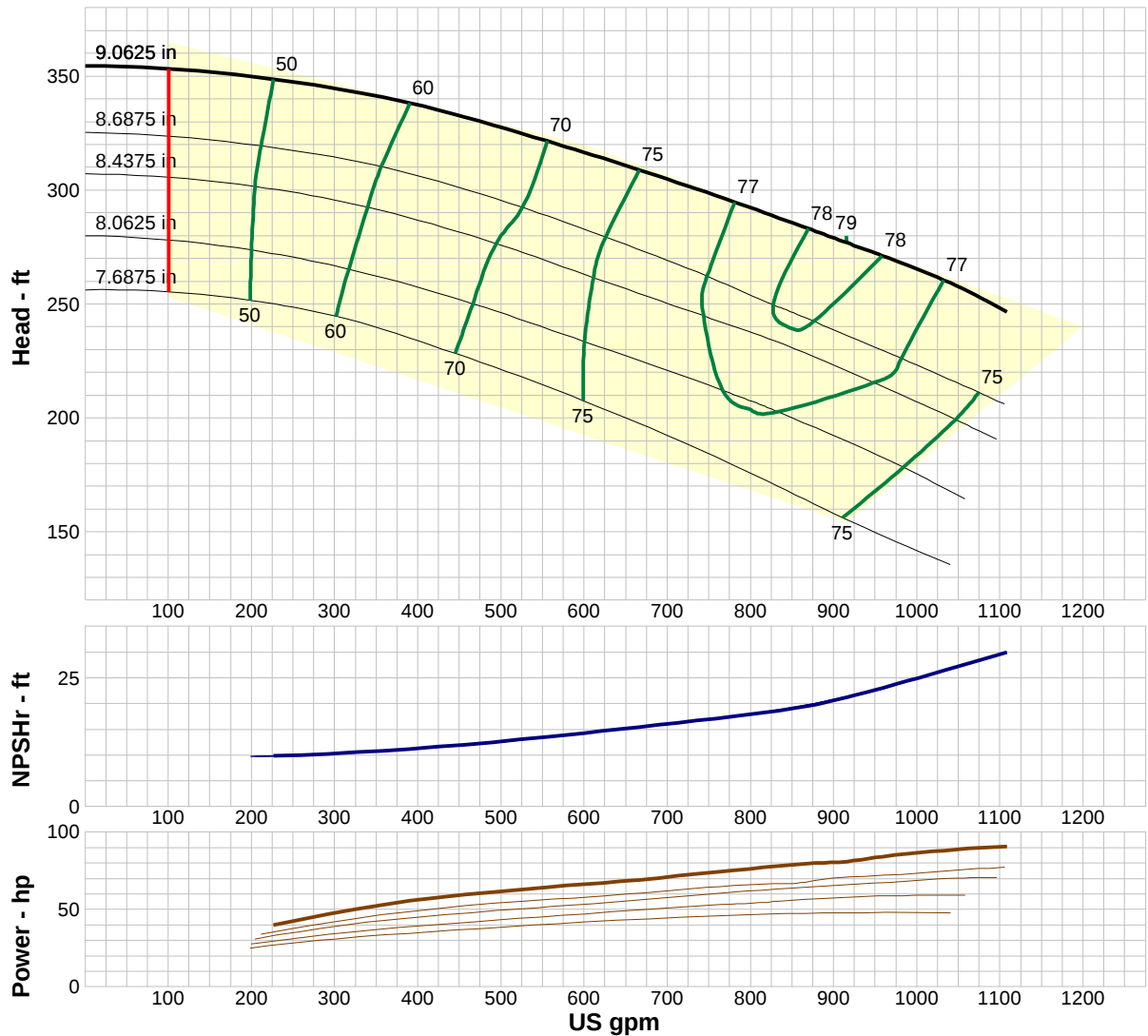
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
 Pressure: 230 psi g
 Sphere size: 0.75 in
 Power: 100 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	915 US gpm
Head:	277 ft
Eff:	79%
Power:	81 hp
NPSHr:	21.2 ft
---- Design Curve ----	
Shutoff head:	355 ft
Shutoff dP:	153 psi
Min flow:	100 US gpm
BEP:	79% @ 915 US gpm
NOL power:	90.8 hp @ 1108 US gpm
-- Max Curve --	
Max power:	90.8 hp @ 1108 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1063	3500	255	77	89.2	27.9
886	3500	281	78	80.1	20.2
709	3500	304	76	71.6	16.3
532	3500	324	69	63.1	13.2
354	3500	341	58	52.1	10.9