

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 27SFH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: Goulds 27SFH
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 9.75 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

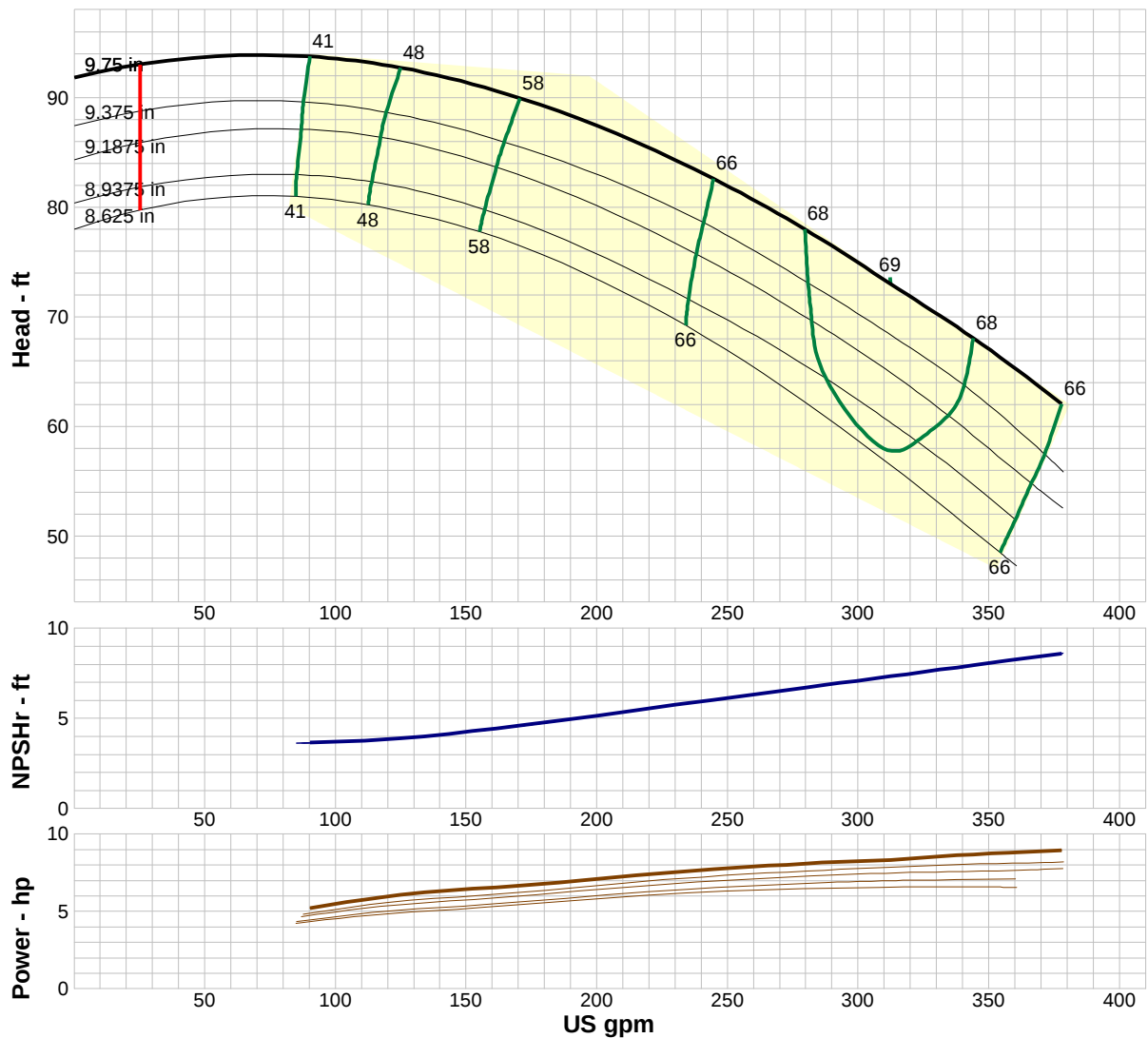
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1562 in
Power: 10 hp
Eye area: --- in²

---- Data Point ----	
Flow:	312 US gpm
Head:	73 ft
Eff:	69%
Power:	8.34 hp
NPSHr:	7.34 ft
---- Design Curve ----	
Shutoff head:	91.8 ft
Shutoff dP:	39.7 psi
Min flow:	25 US gpm
BEP:	69% @ 312 US gpm
NOL power:	8.97 hp @ 378 US gpm
-- Max Curve --	
Max power:	8.97 hp @ 378 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
362	1750	64.9	67	8.84	8.3
302	1750	74.6	69	8.27	7.14
242	1750	82.8	66	7.69	5.99
181	1750	88.9	59	6.83	4.81
121	1750	92.8	47	5.99	3.87