

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 7SFH
Type: CC_ENDSUCTION
Synch speed: 1800 rpm
Curve: Goulds 7SFH
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 8.25 in
Impeller:
Ns: ---
Nss: ---
Suction: 2.5 in
Discharge: 1.5 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

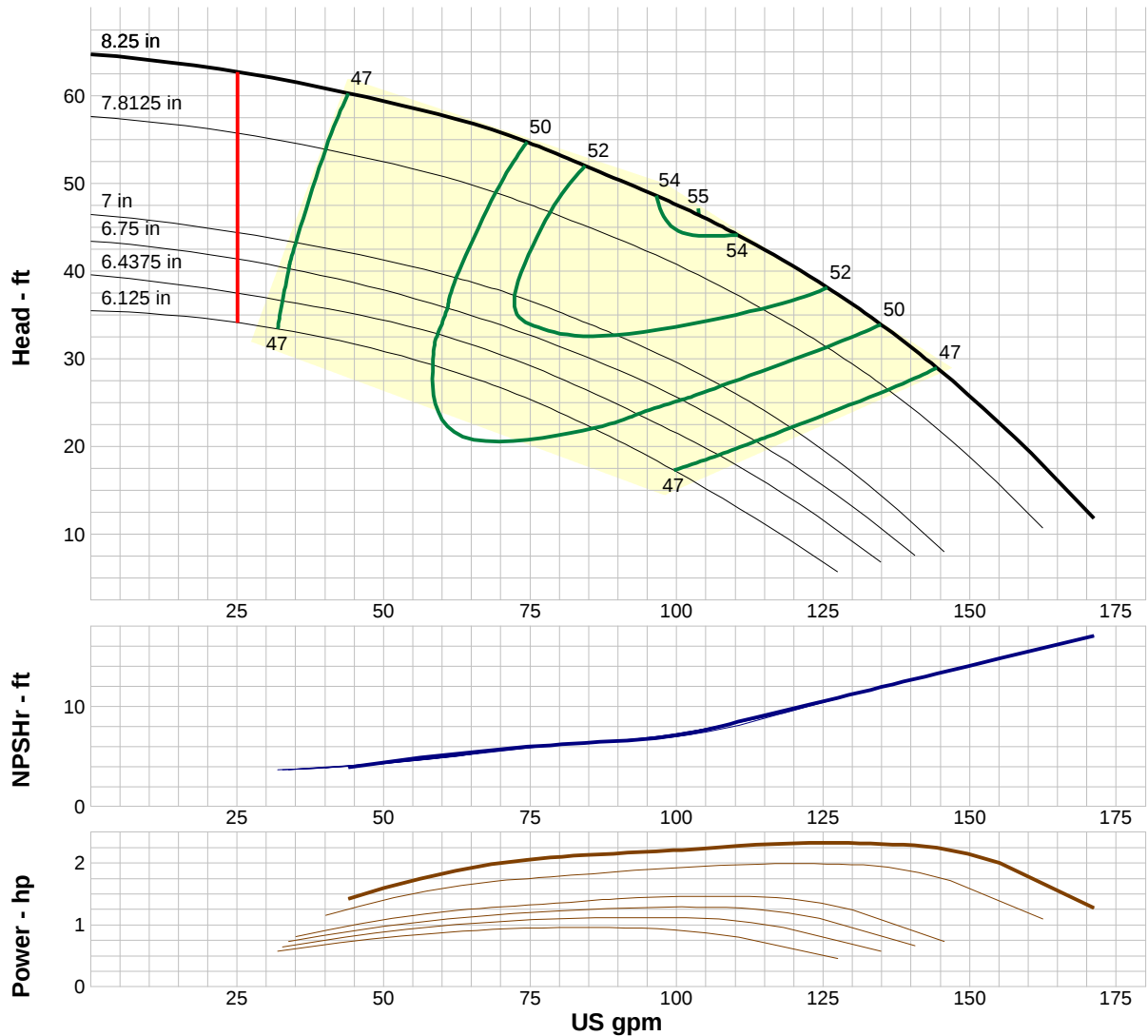
Motor:

Consult GOULDS to select a motor for this pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1875 in
Power: 2.4 hp
Eye area: --- in²

---- Data Point ----	
Flow:	104 US gpm
Head:	46.3 ft
Eff:	54%
Power:	2.23 hp
NPSHr:	7.56 ft
---- Design Curve ----	
Shutoff head:	64.7 ft
Shutoff dP:	28 psi
Min flow:	25 US gpm
BEP:	55% @ 104 US gpm
NOL power:	2.33 hp @ 126 US gpm
-- Max Curve --	
Max power:	2.33 hp @ 126 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
164	1750	16.4	42	1.53	16.1
137	1750	32.8	49	2.29	12.2
110	1750	44.2	54	2.27	8.41
82.2	1750	52.6	52	2.11	6.28
54.8	1750	58.3	48	1.65	4.64