

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 28SFH
Type: CC_ENDSUCTION
Synch speed: 3600 rpm
Curve: Goulds 28SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 9.5625 in
Impeller:
Ns: ---
Nss: ---
Suction: 4 in
Discharge: 3 in

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.5 in
Power: 90 hp
Eye area: --- in²

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

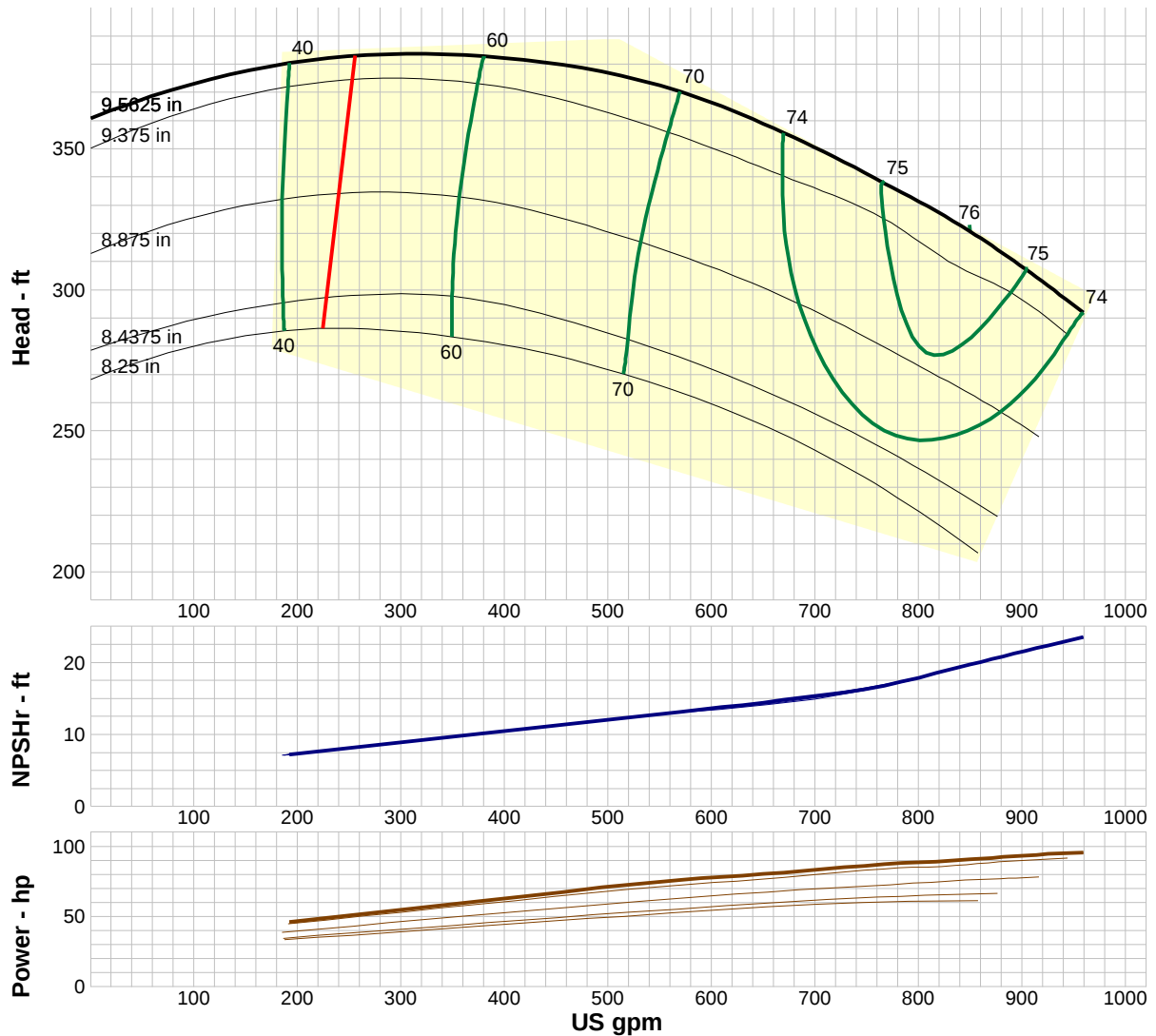
Motor:

Consult GOULDS to select a motor for this pump.

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	850 US gpm
Head:	321 ft
Eff:	76%
Power:	90.6 hp
NPSHr:	19.7 ft
---- Design Curve ----	
Shutoff head:	361 ft
Shutoff dP:	156 psi
Min flow:	255 US gpm
BEP:	76% @ 850 US gpm
NOL power:	95.5 hp @ 959 US gpm
-- Max Curve --	
Max power:	95.5 hp @ 959 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
920	3500	303	75	94.1	22.2
767	3500	338	75	87.2	16.8
614	3500	364	72	78.4	13.9
460	3500	378	64	67.5	11.4
307	3500	382	52	55.3	9.05