

Company: Bonneville Power Administration

Name:

Date: 2/9/2007

Selection: Gould Centrifugal Pump



Pump:

Size: 10SFH
Type: CC_ENDSUCTION_C
Synch speed: 3600 rpm
Curve: Goulds 10SFH
Specific Speeds:
Dimensions:
Speed: 3500 rpm
Dia: 8.0625 in
Impeller:
Ns: ---
Nss: ---
Suction: 2 in
Discharge: 1.25 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.

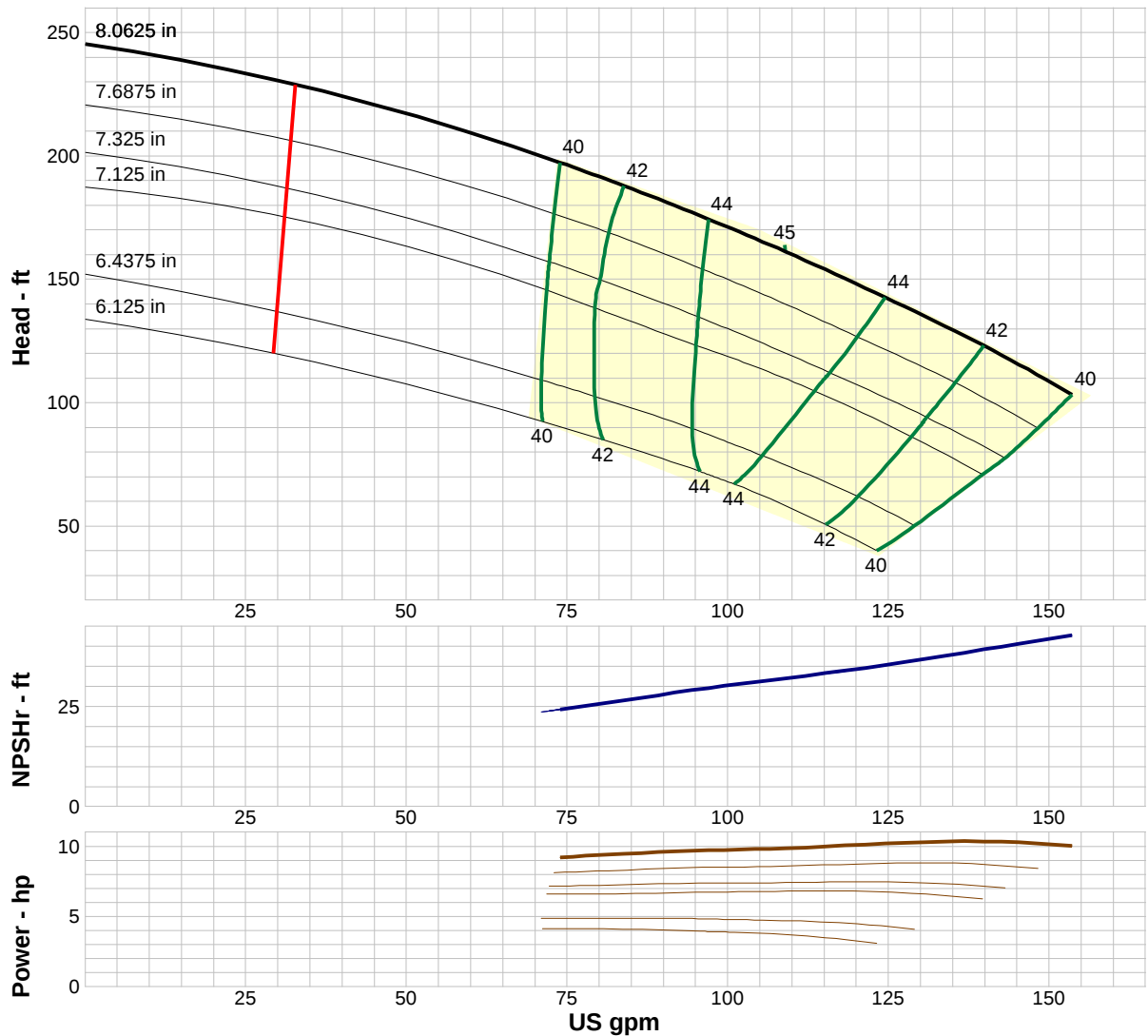
Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

Pump Limits:

Temperature: 212 °F
Pressure: 175 psi g
Sphere size: 0.1875 in
Power: 10 hp
Eye area: --- in²

---- Data Point ----	
Flow:	109 US gpm
Head:	161 ft
Eff:	45%
Power:	9.85 hp
NPSHr:	32 ft
---- Design Curve ----	
Shutoff head:	245 ft
Shutoff dP:	106 psi
Min flow:	32.7 US gpm
BEP:	45% @ 109 US gpm
NOL power:	10.3 hp @ 140 US gpm
-- Max Curve --	
Max power:	10.3 hp @ 140 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
148	3500	111	41	10.1	41.3
123	3500	144	44	10.2	35
98.4	3500	173	44	9.72	29.9
73.8	3500	197	40	9.2	24.3
49.2	3500	213	35	8.54	18.5