

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"5874
Type: 5800-HSC
Synch speed: 3600 rpm
Curve: 740502A
Specific Speeds:
Dimensions:
Speed: 3550 rpm
Dia: 9 in
Impeller: G5A1A
Ns: 1808
Nss: 12307
Suction: 6 in
Discharge: 5 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.56 in
Power: --- hp
Eye area: --- in²

Search Criteria:

Flow: --- US gpm
Head: --- ft

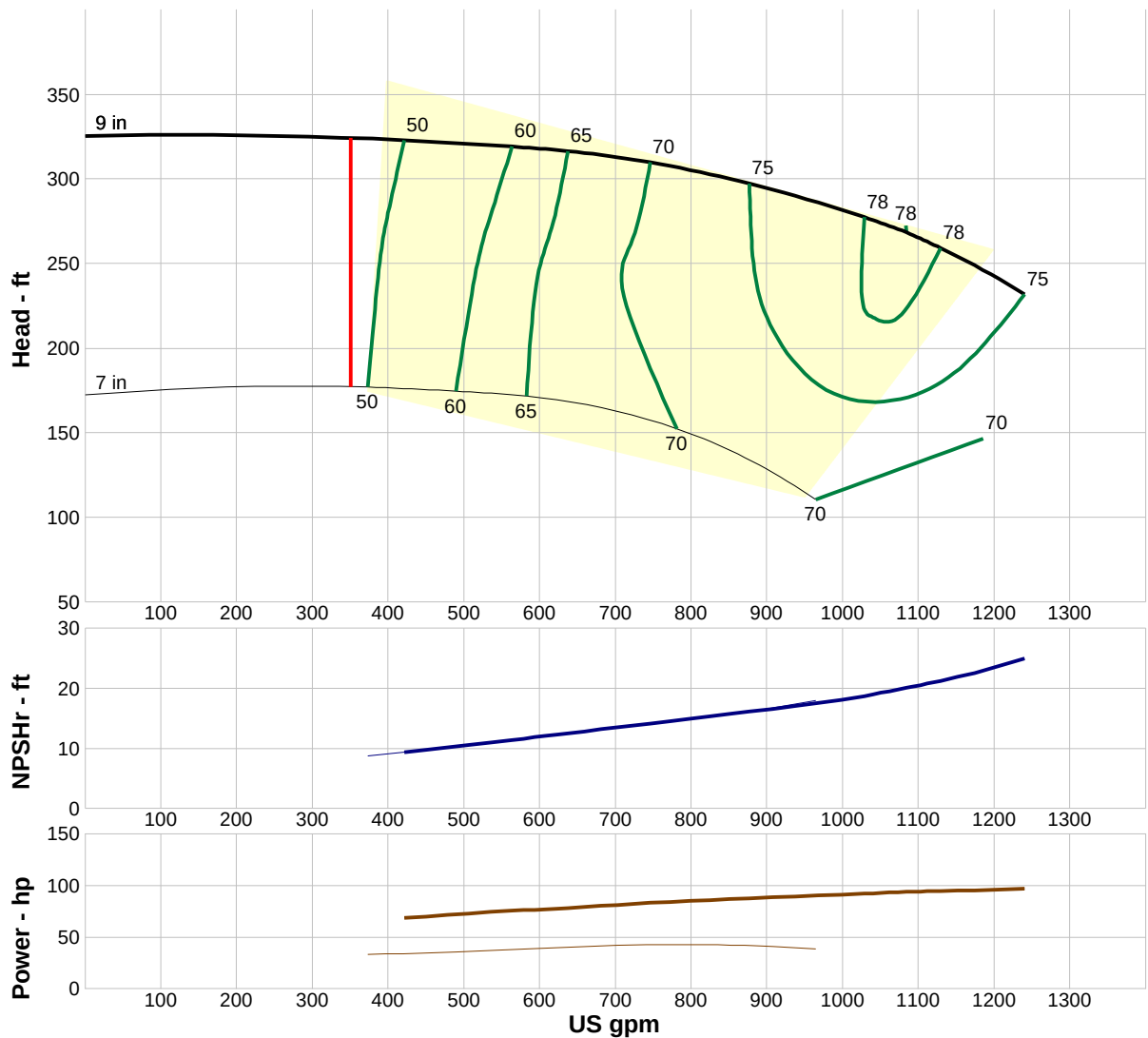
Fluid:

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:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 100 hp
Speed: 3600
Frame: 405TS

---- Data Point ----	
Flow:	1084 US gpm
Head:	268 ft
Eff:	78%
Power:	94.1 hp
NPSHr:	20.1 ft
---- Design Curve ----	
Shutoff head:	325 ft
Shutoff dP:	141 psi
Min flow:	350 US gpm
BEP:	78% @ 1084 US gpm
NOL power:	96.9 hp @ 1240 US gpm
-- Max Curve --	
Max power:	96.9 hp @ 1240 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1190	3550	244	76	95.9	23.3
992	3550	282	77	91.2	18.1
794	3550	305	72	84.9	14.9
595	3550	318	62	76.8	11.9
397	3550	323	48	67.5	8.98