

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 3"2874A
 Type: 2800-HSC
 Synch speed: 3600 rpm
 Curve: 740302A
 Specific Speeds:
 Dimensions:
 Speed: 3570 rpm
 Dia: 9.03 in
 Impeller: J3C1A1
 Ns: 1525
 Nss: 11899
 Suction: 5 in
 Discharge: 3 in

Pump Limits:

Temperature: 160 °F
 Pressure: 275 psi g
 Sphere size: 0.63 in

Power: --- hp
 Eye area: --- in²

Search Criteria:

Flow: --- US gpm

Head: --- ft

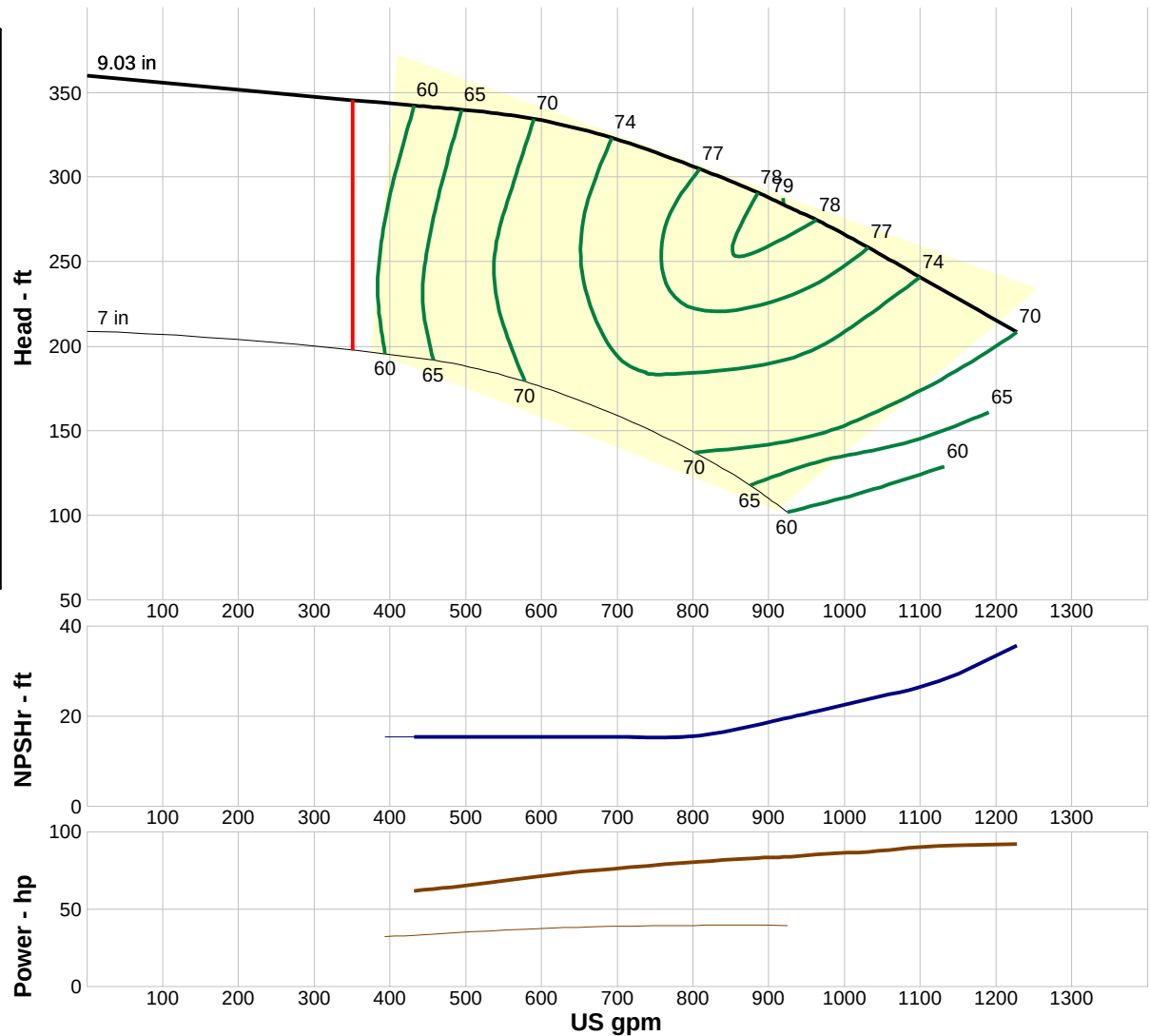
Fluid:

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:	919 US gpm
Head:	284 ft
Eff:	78%
Power:	83.8 hp
NPSHr:	19.4 ft
---- Design Curve ----	
Shutoff head:	360 ft
Shutoff dP:	156 psi
Min flow:	350 US gpm
BEP:	79% @ 919 US gpm
NOL power:	92.2 hp @ 1227 US gpm
-- Max Curve --	
Max power:	92.2 hp @ 1227 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1178	3570	221	72	91.5	32.2
982	3570	270	78	86.1	21.9
786	3570	308	76	79.9	15.7
589	3570	334	70	71.1	15.5
393	3570	344	57	60.3	15.5