

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5821
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 210604A
 Specific Speeds:
 Dimensions:
 Speed: 1770 rpm
 Dia: 9.25 in
 Impeller: D6C1A
 Ns: 2860
 Nss: 9673
 Suction: 8 in
 Discharge: 6 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.75 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

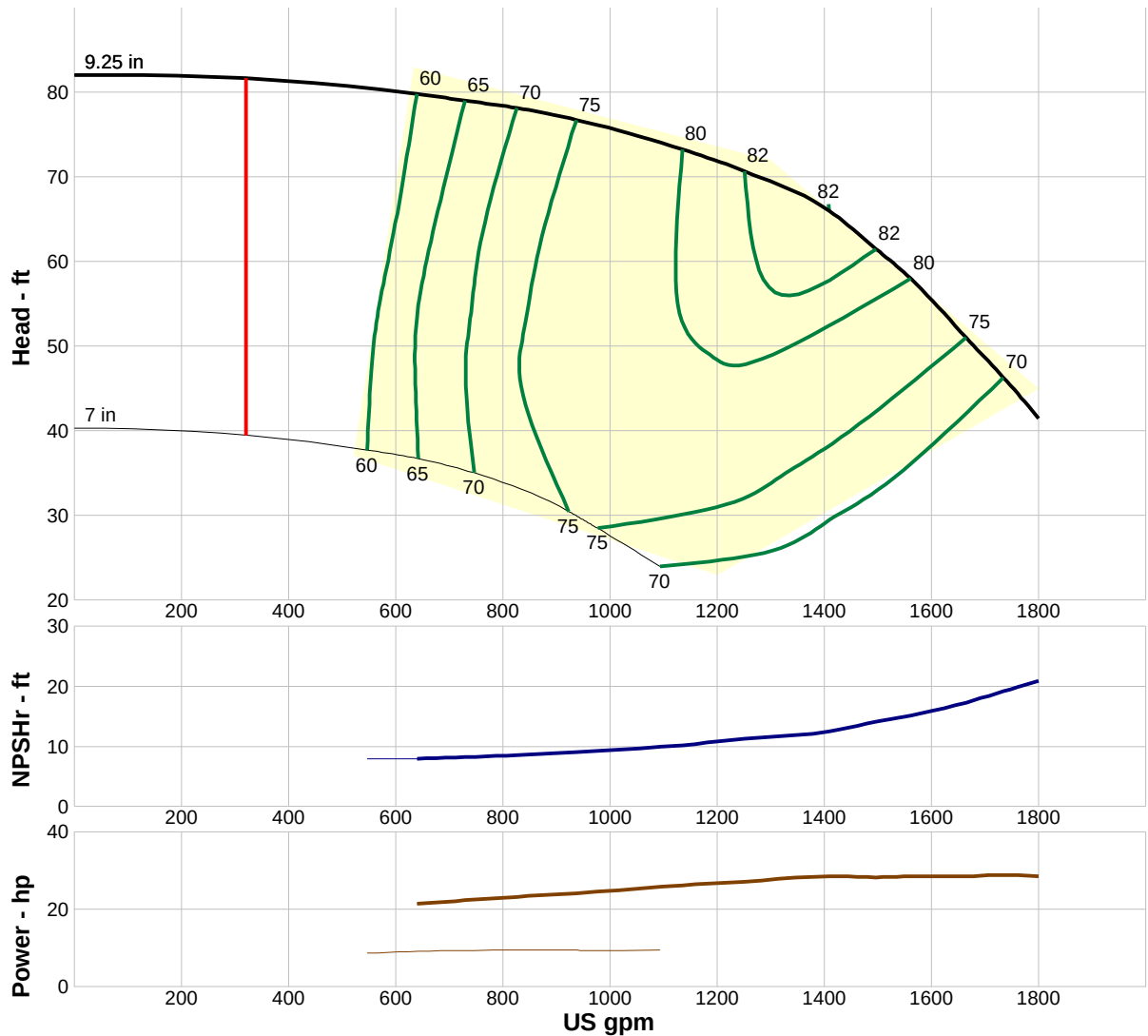
Fluid:

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: 30 hp
 Speed: 1800
 Frame: 286T

---- Data Point ----	
Flow:	1409 US gpm
Head:	66 ft
Eff:	82%
Power:	28.6 hp
NPSHr:	12.5 ft
---- Design Curve ----	
Shutoff head:	82 ft
Shutoff dP:	35.5 psi
Min flow:	320 US gpm
BEP:	82% @ 1409 US gpm
NOL power:	29 hp @ 1734 US gpm
-- Max Curve --	
Max power:	29 hp @ 1734 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1728	1770	46.7	70	28.9	19
1440	1770	64.4	82	28.5	13.1
1152	1770	72.9	80	26.4	10.4
864	1770	77.7	72	23.6	8.75
576	1770	80	57	20.8	7.85