

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5821 (C)
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 210804C
 Specific Speeds:
 Dimensions:
 Speed: 1775 rpm
 Dia: 9.25 in
 Impeller: D8C1C
 Ns: 3291
 Nss: 11881
 Suction: 10 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.69 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

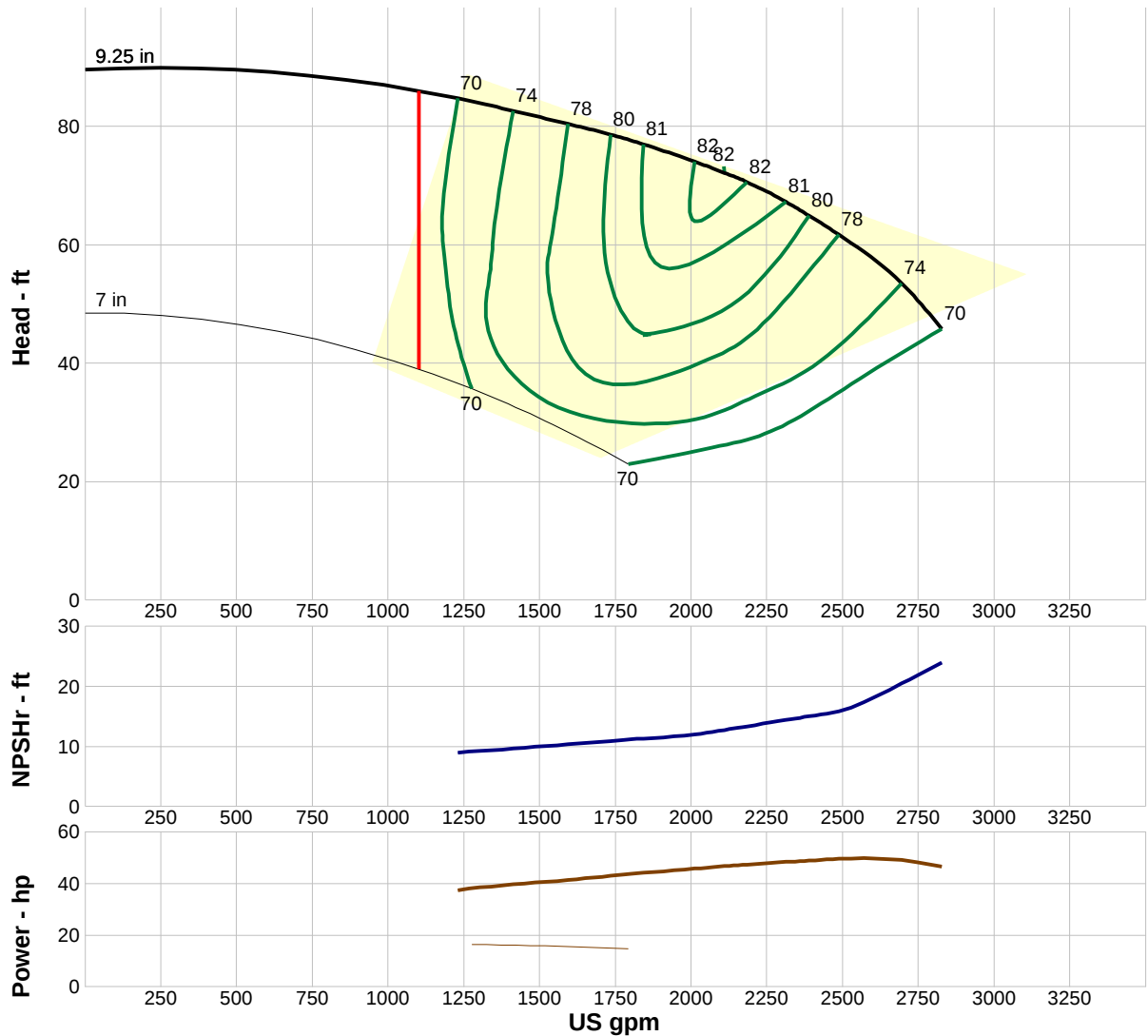
Fluid:

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: 50 hp
 Speed: 1800
 Frame: 326T

---- Data Point ----	
Flow:	2109 US gpm
Head:	72.1 ft
Eff:	82%
Power:	46.8 hp
NPSHr:	12.8 ft
---- Design Curve ----	
Shutoff head:	89.5 ft
Shutoff dP:	38.7 psi
Min flow:	1100 US gpm
BEP:	82% @ 2109 US gpm
NOL power:	49.7 hp @ 2486 US gpm
-- Max Curve --	
Max power:	49.7 hp @ 2486 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2712	1775	52.4	73	48.8	21
2260	1775	68.6	81	48	14
1808	1775	77.5	81	43.8	11.2
1356	1775	83.2	73	39.1	9.46
904	1775	---	---	---	---