

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H12MFB (1 stage)
 Type: MixFlow
 Synch speed: 1760 rpm
 Curve: H12MFB
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 8.5 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: --- in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

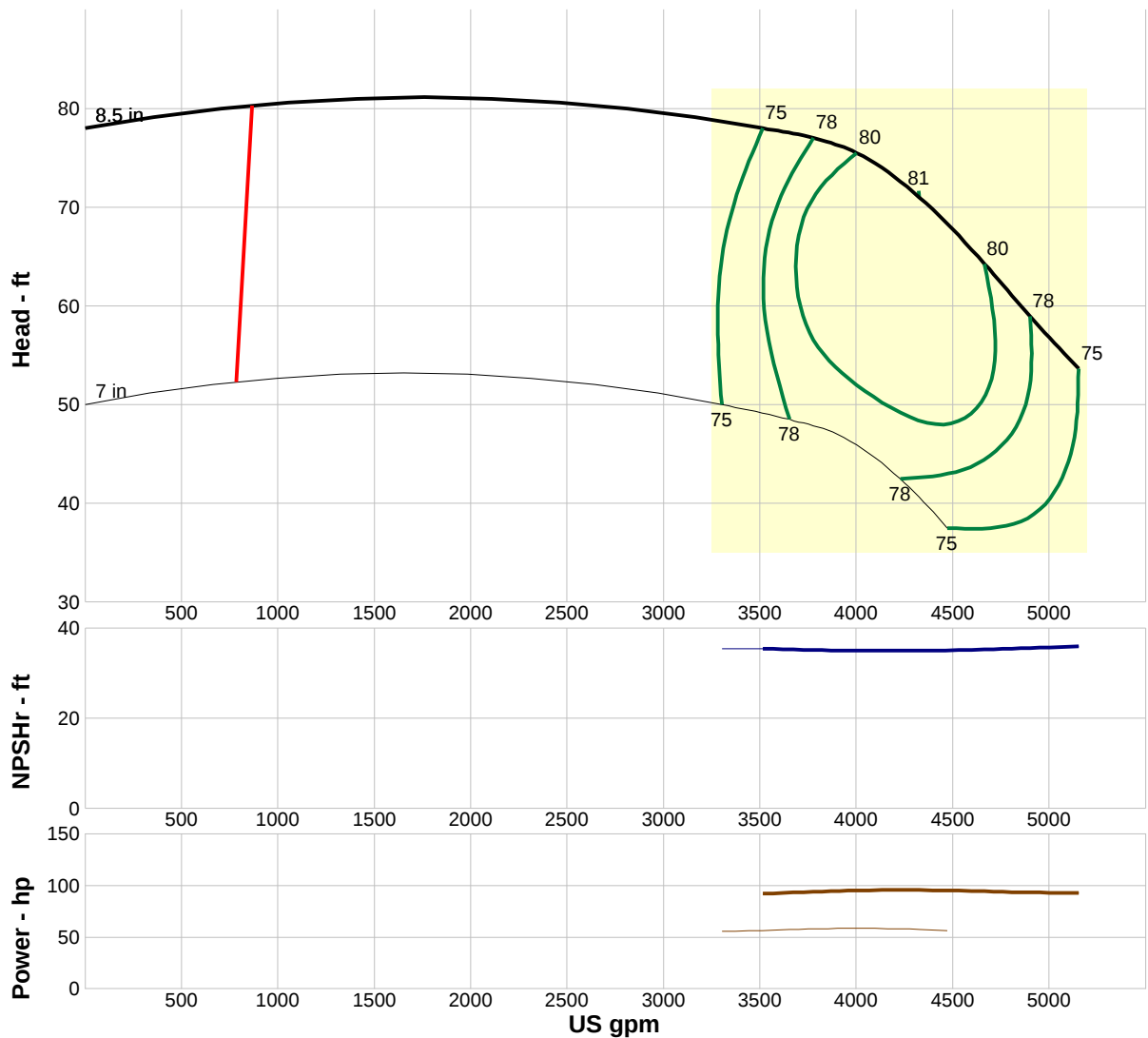
Fluid:

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
 --- hp
 Speed: ---
 Frame: ---

---- Data Point ----	
Flow:	4325 US gpm
Head:	71 ft
Eff:	81%
Power:	95.7 hp
NPSHr:	35.1 ft
---- Design Curve ----	
Shutoff head:	78 ft
Shutoff dP:	33.7 psi
Min flow:	865 US gpm
BEP:	81% @ 4325 US gpm
NOL power:	95.7 hp @ 4325 US gpm
-- Max Curve --	
Max power:	95.7 hp @ 4325 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4944	1760	58	77.5	93.4	35.7
4120	1760	73.8	80.4	95.5	35.1
3296	1760	78	72.5	90.7	35.8
2472	1760	78	63.1	84.9	36.7
1648	1760	78	53.6	79.1	37.7