

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H8MFA (1 stage)
 Type: MixFlow
 Synch speed: 1760 rpm
 Curve: H8MFA
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 4 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: 1.5 in
 Power: 150 hp
 Eye area: --- in²

Search Criteria:

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

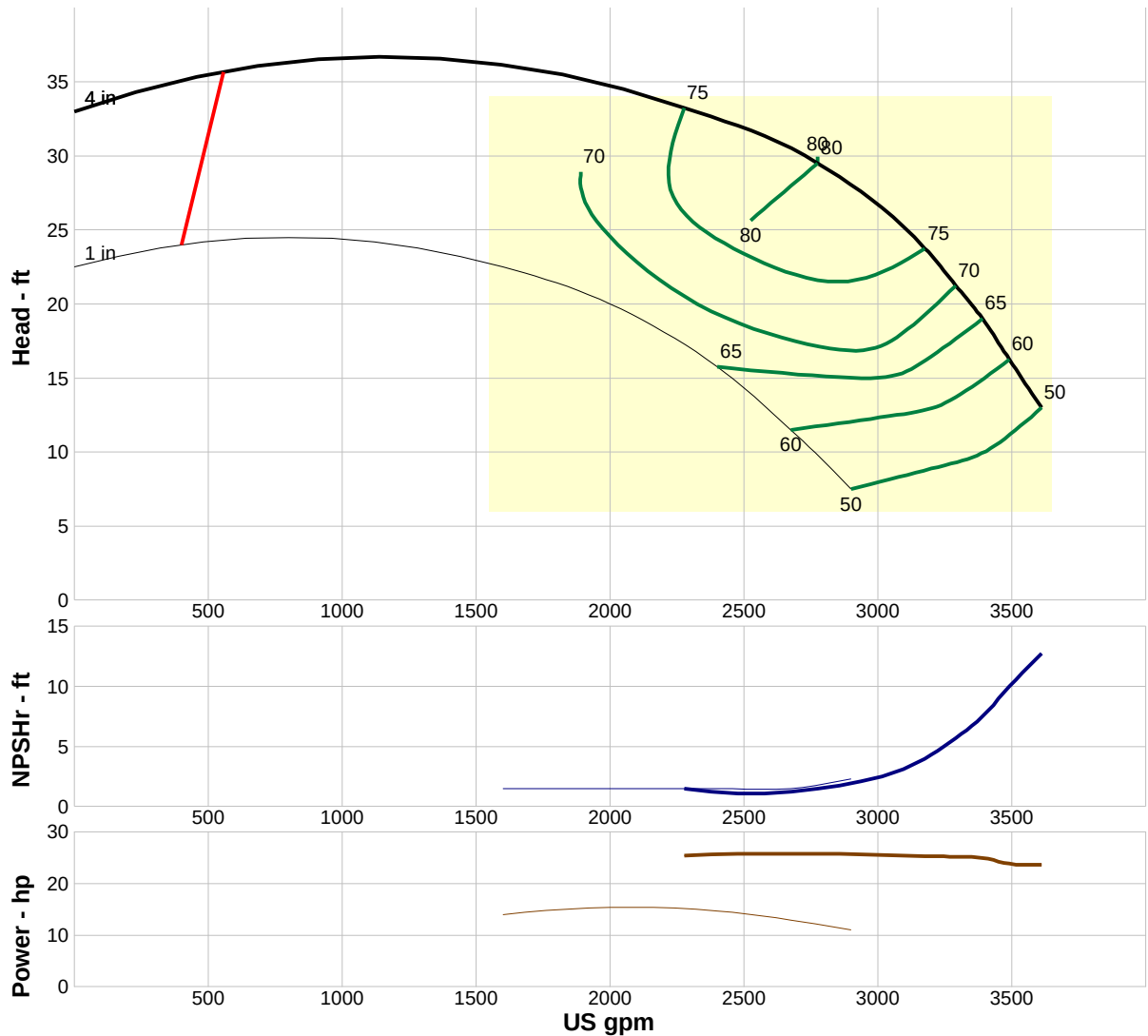
Fluid:

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:	2775 US gpm
Head:	29.5 ft
Eff:	80%
Power:	25.8 hp
NPSHr:	1.5 ft
---- Design Curve ----	
Shutoff head:	33 ft
Shutoff dP:	14.3 psi
Min flow:	555 US gpm
BEP:	80% @ 2775 US gpm
NOL power:	25.8 hp @ 2775 US gpm
-- Max Curve --	
Max power:	25.8 hp @ 2775 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3466	1760	16.9	61.2	24.1	9.4
2888	1760	27.9	78.6	25.7	2.21
2310	1760	33	75.3	25.5	1.5
1733	1760	33.2	69.6	25.1	1.5
1155	1760	33.1	63.8	24.7	1.5