

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H16MFB (1 stage)
 Type: MixFlow
 Synch speed: 720 rpm
 Curve: H16MFB
 Specific Speeds:
 Dimensions:
 Speed: 720 rpm
 Dia: 4 in
 Impeller:
 Ns: 720
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: 540 psi g
 Sphere size: --- in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

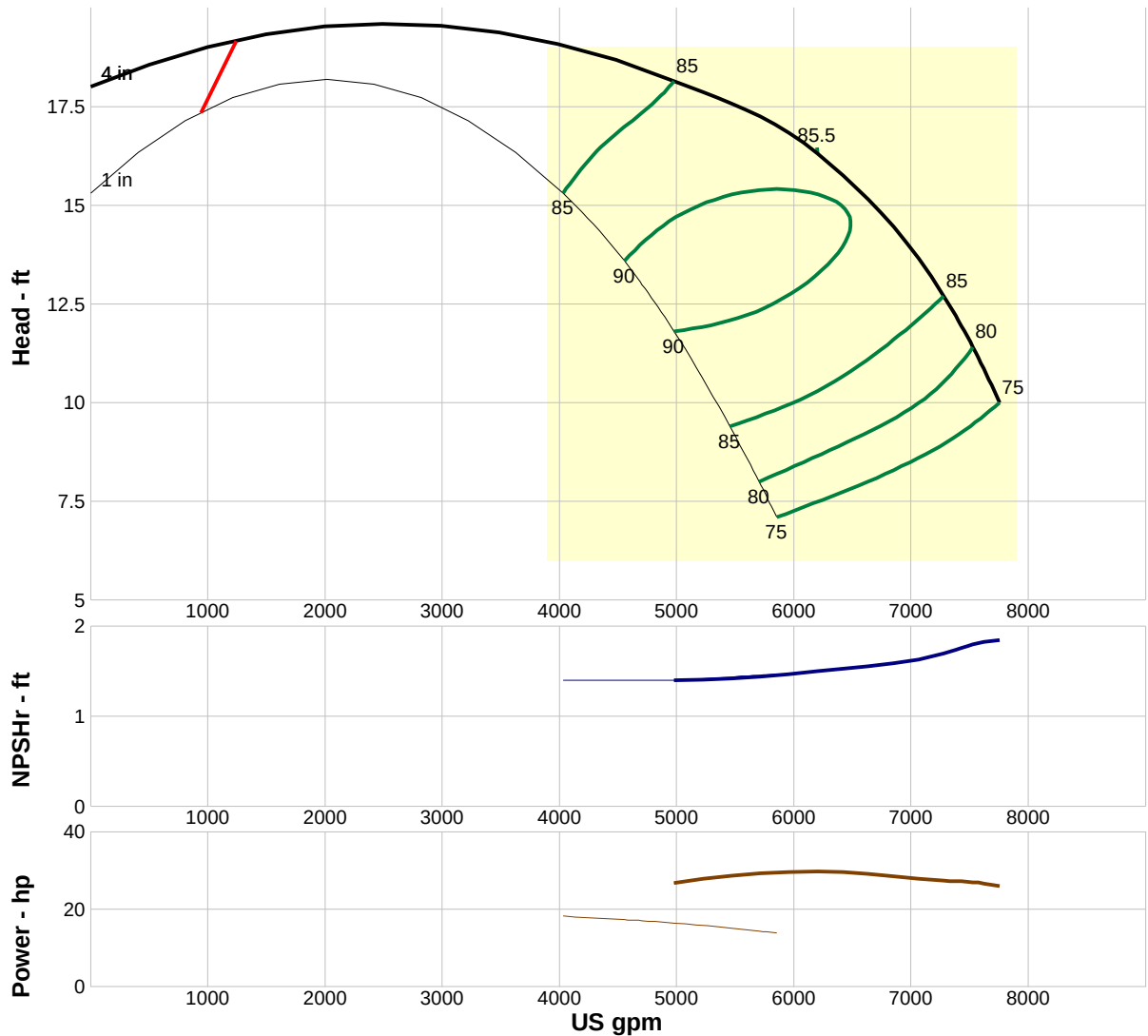
Fluid:

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

---- Data Point ----	
Flow:	6200 US gpm
Head:	16.3 ft
Eff:	85.5%
Power:	29.8 hp
NPSHr:	1.5 ft
---- Design Curve ----	
Shutoff head:	18 ft
Shutoff dP:	7.78 psi
Min flow:	1240 US gpm
BEP:	85.5% @ 6200 US gpm
NOL power:	29.8 hp @ 6200 US gpm
-- Max Curve --	
Max power:	29.8 hp @ 6200 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
7440	720	11.8	81.7	27.2	1.77
6200	720	16.3	85.5	29.8	1.5
4960	720	18.1	85	26.8	1.4
3720	720	18.1	84.5	23.7	1.3
2480	720	18.1	84	20.6	1.2