

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H12MFB (1 stage)
 Type: MixFlow
 Synch speed: 1160 rpm
 Curve: H12MFB
 Specific Speeds:
 Dimensions:
 Speed: 1160 rpm
 Dia: 4 in
 Impeller:
 Ns: 1160
 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

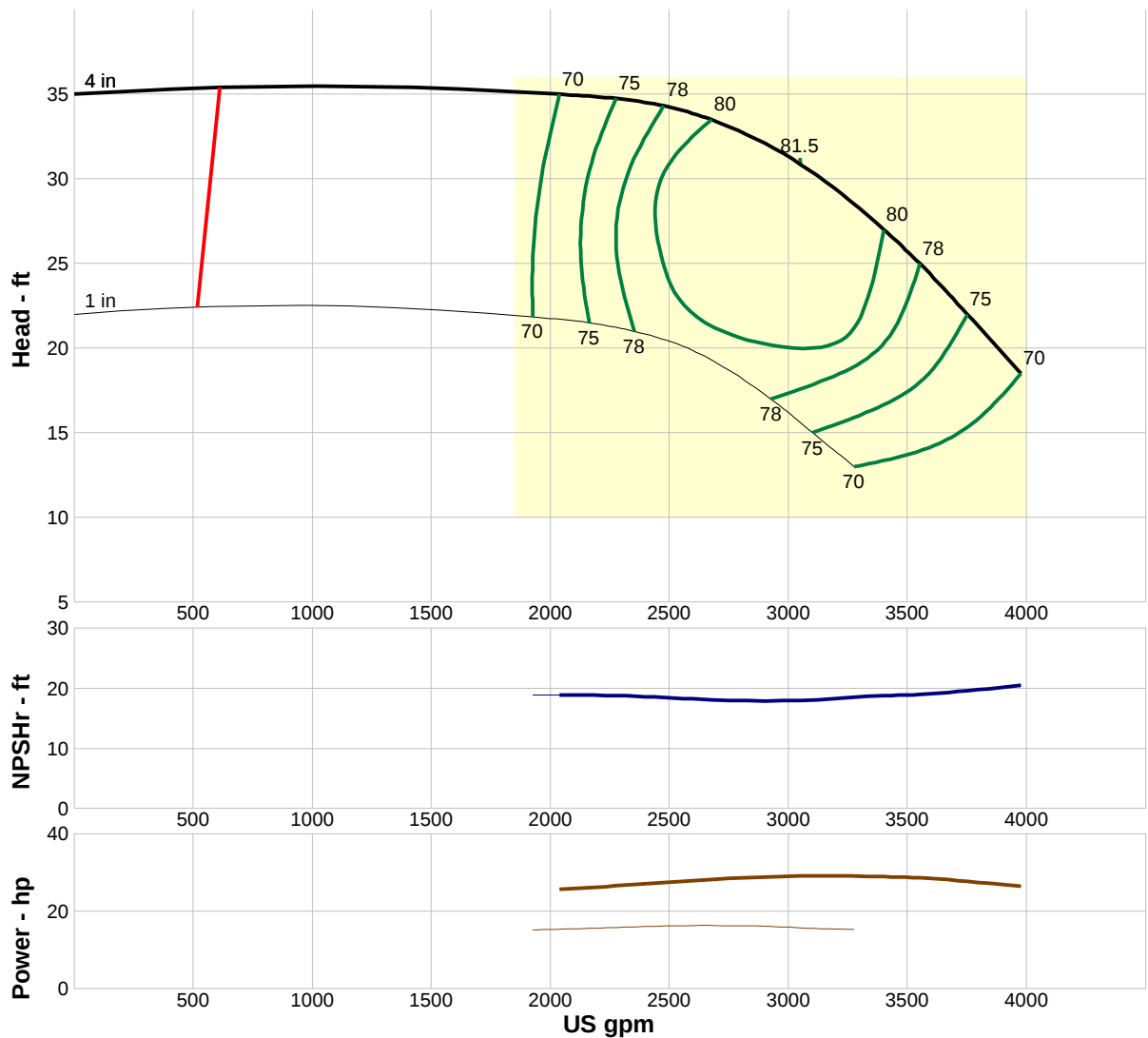
Fluid:

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:	3050 US gpm
Head:	30.9 ft
Eff:	81.5%
Power:	29.2 hp
NPSHr:	18 ft
---- Design Curve ----	
Shutoff head:	35 ft
Shutoff dP:	15.1 psi
Min flow:	610 US gpm
BEP:	81.5% @ 3050 US gpm
NOL power:	29.2 hp @ 3050 US gpm
-- Max Curve --	
Max power:	29.2 hp @ 3050 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
3816	1160	21	73.5	27.4	19.9
3180	1160	29.4	80.9	29.1	18.3
2544	1160	34	78.7	27.8	18.4
1908	1160	35	67.3	25.2	19
1272	1160	35	53.9	22.9	19.2