

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 20"5823
Type: 5800-HSC
Synch speed: 900 rpm
Curve: 232008A
Specific Speeds:
Dimensions:
Speed: 890 rpm
Dia: 30 in
Impeller: D20A1A
Ns: 1960
Nss: 13235
Suction: 24 in
Discharge: 20 in

Pump Limits:

Temperature: 160 °F
Pressure: 125 psi g
Sphere size: 2.25 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

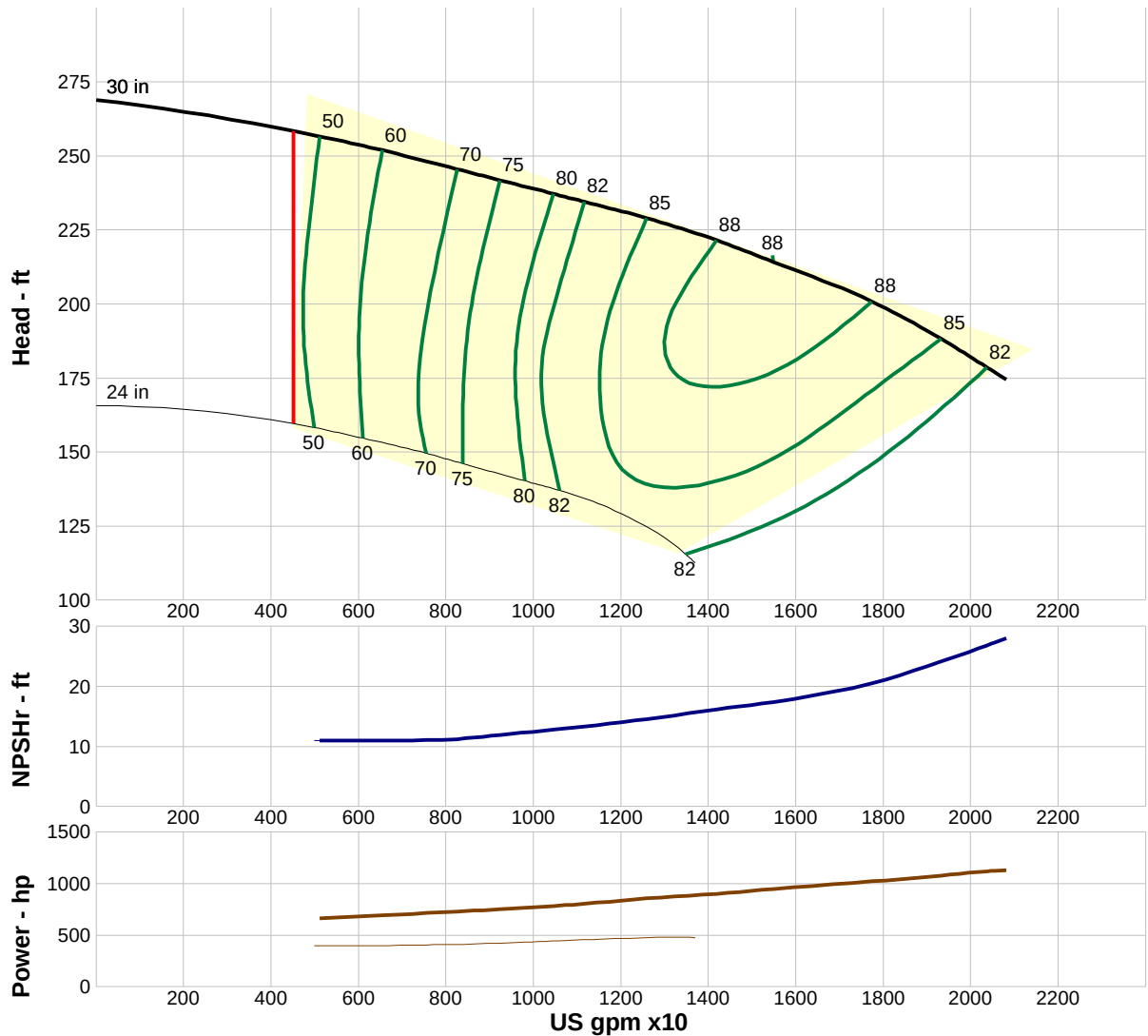
Fluid:

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:	15475 US gpm
Head:	214 ft
Eff:	88%
Power:	950 hp
NPSHr:	17.4 ft
---- Design Curve ----	
Shutoff head:	269 ft
Shutoff dP:	116 psi
Min flow:	4500 US gpm
BEP:	88% @ 15475 US gpm
NOL power:	1130 hp @ 20800 US gpm
-- Max Curve --	
Max power:	1130 hp @ 20800 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
19968	890	182	83	1105	25.8
16640	890	207	88	987	19
13312	890	226	86	877	15.3
9984	890	239	78	770	12.5
6656	890	251	61	695	11