

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 20"5822
Type: 5800-HSC
Synch speed: 900 rpm
Curve: 222008A
Specific Speeds:
Dimensions:
Speed: 890 rpm
Dia: 26.25 in
Impeller: D20B1A
Ns: 2407
Nss: 12679
Suction: 24 in
Discharge: 20 in

Pump Limits:

Temperature: 160 °F
Pressure: 100 psi g
Sphere size: 0.75 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

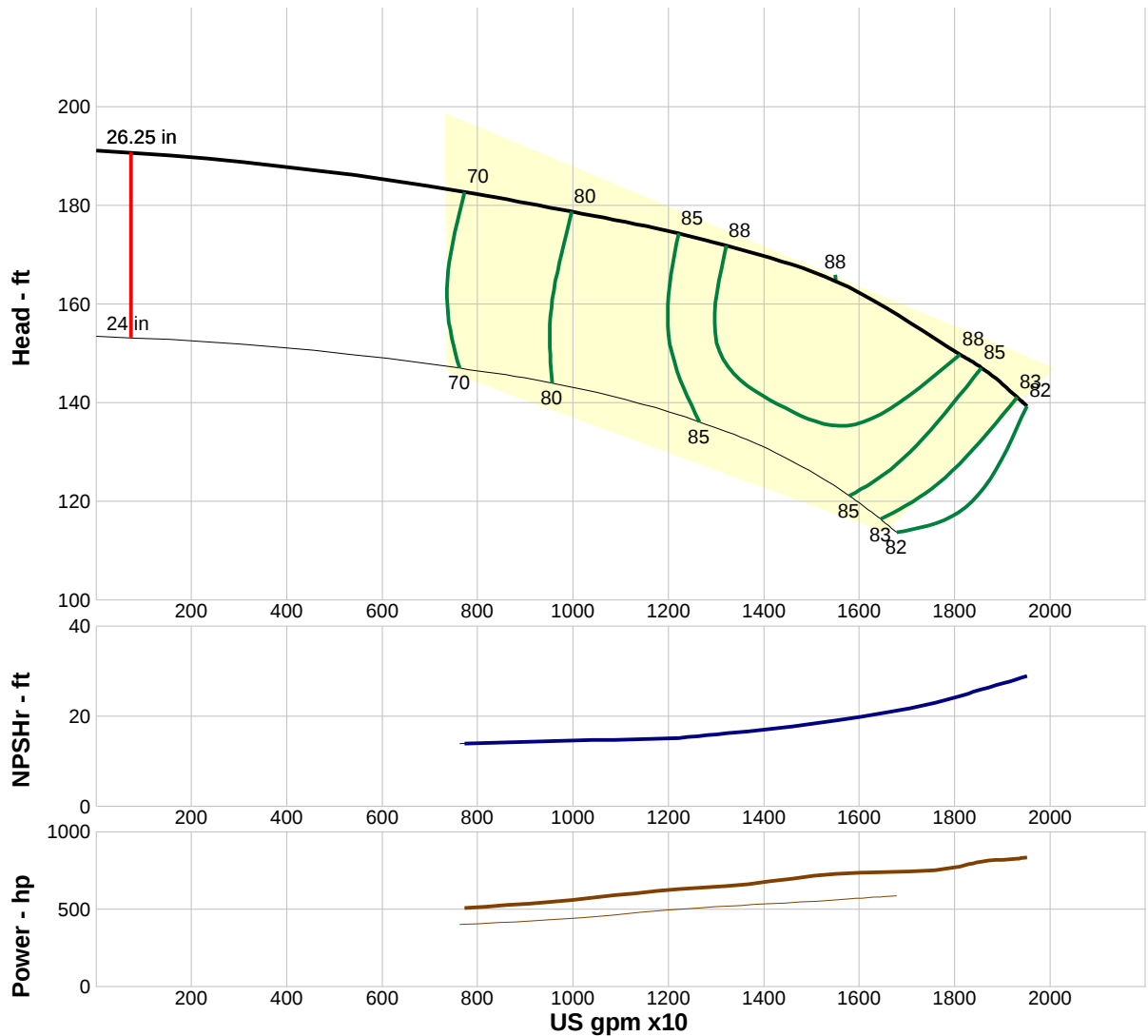
Fluid:

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:	15502 US gpm
Head:	165 ft
Eff:	88%
Power:	731 hp
NPSHr:	19.1 ft
---- Design Curve ----	
Shutoff head:	191 ft
Shutoff dP:	82.6 psi
Min flow:	720 US gpm
BEP:	88% @ 15502 US gpm
NOL power:	837 hp @ 19500 US gpm
-- Max Curve --	
Max power:	837 hp @ 19500 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
18720	890	146	85	815	26.5
15600	890	164	88	733	19.3
12480	890	174	86	637	15.5
9360	890	180	77	548	14.5
6240	890	184	63	473	13.6