

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 16"5823 (C)
 Type: 5800-HSC
 Synch speed: 900 rpm
 Curve: 231608C
 Specific Speeds:
 Dimensions:
 Speed: 890 rpm
 Dia: 28 in
 Impeller: M16A1C
 Ns: 1762
 Nss: 11360
 Suction: 20 in
 Discharge: 16 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.88 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

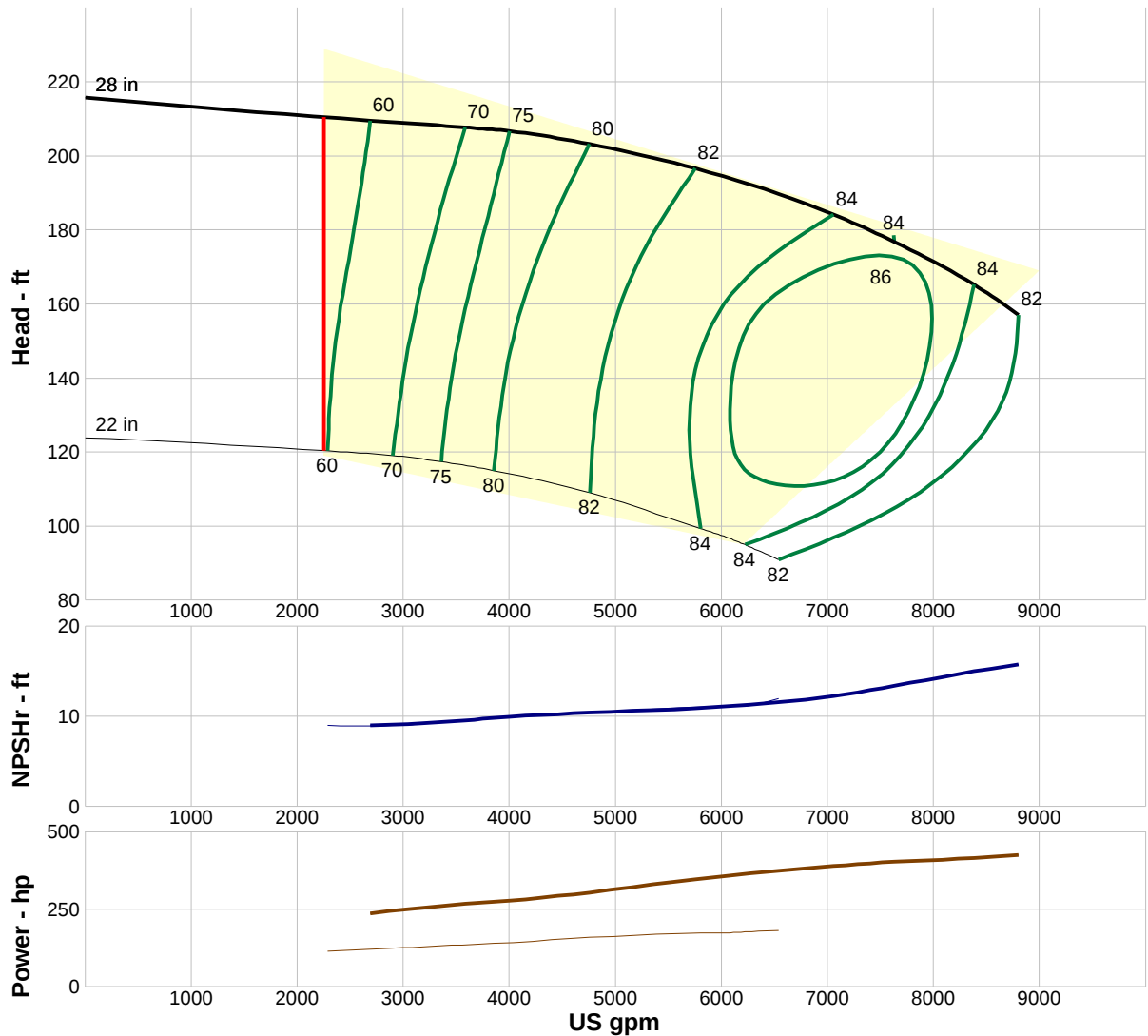
Fluid:

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:	7627 US gpm
Head:	177 ft
Eff:	84%
Power:	404 hp
NPSHr:	13.4 ft
---- Design Curve ----	
Shutoff head:	216 ft
Shutoff dP:	93.3 psi
Min flow:	2250 US gpm
BEP:	84% @ 7627 US gpm
NOL power:	426 hp @ 8800 US gpm
-- Max Curve --	
Max power:	426 hp @ 8800 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
8448	890	164	84	418	15.1
7040	890	184	84	390	12.2
5632	890	197	82	343	10.9
4224	890	206	76	286	10.1
2816	890	209	61	241	9.08