

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 4"5876
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 760404A
 Specific Speeds:
 Dimensions:
 Speed: 1760 rpm
 Dia: 9.88 in
 Impeller: G4B1A
 Ns: 1486
 Nss: 15533
 Suction: 6 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.5 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

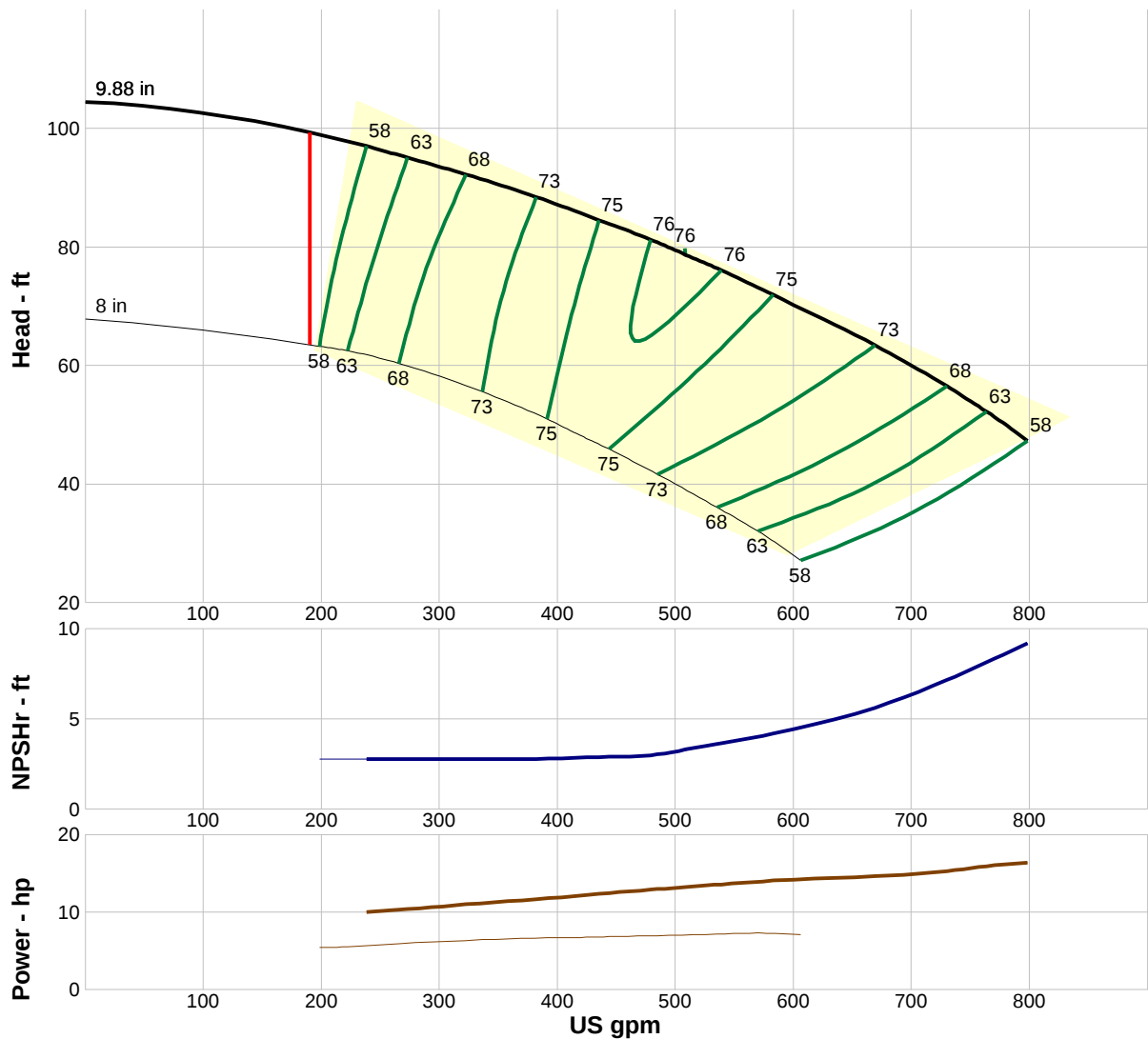
Fluid:

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
 Size: 20 hp
 Speed: 1800
 Frame: 256T

---- Data Point ----	
Flow:	508 US gpm
Head:	78.7 ft
Eff:	76%
Power:	13.3 hp
NPSHr:	3.31 ft
---- Design Curve ----	
Shutoff head:	104 ft
Shutoff dP:	45.2 psi
Min flow:	190 US gpm
BEP:	76% @ 508 US gpm
NOL power:	16.4 hp @ 798 US gpm
-- Max Curve --	
Max power:	16.4 hp @ 798 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
767	1760	51.7	62	16	8.27
639	1760	66.3	74	14.5	5.14
511	1760	78.4	76	13.3	3.34
383	1760	88.3	73	11.7	2.8
256	1760	96	61	10.2	2.8