

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 4"2876C
 Type: 2800-HSC
 Synch speed: 1800 rpm
 Curve: 760404C
 Specific Speeds:
 Dimensions:
 Speed: 1765 rpm
 Dia: 11.2 in
 Impeller: J4E1C1
 Ns: 1421
 Nss: 10267
 Suction: 6 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 300 psi g
 Sphere size: 0.6 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

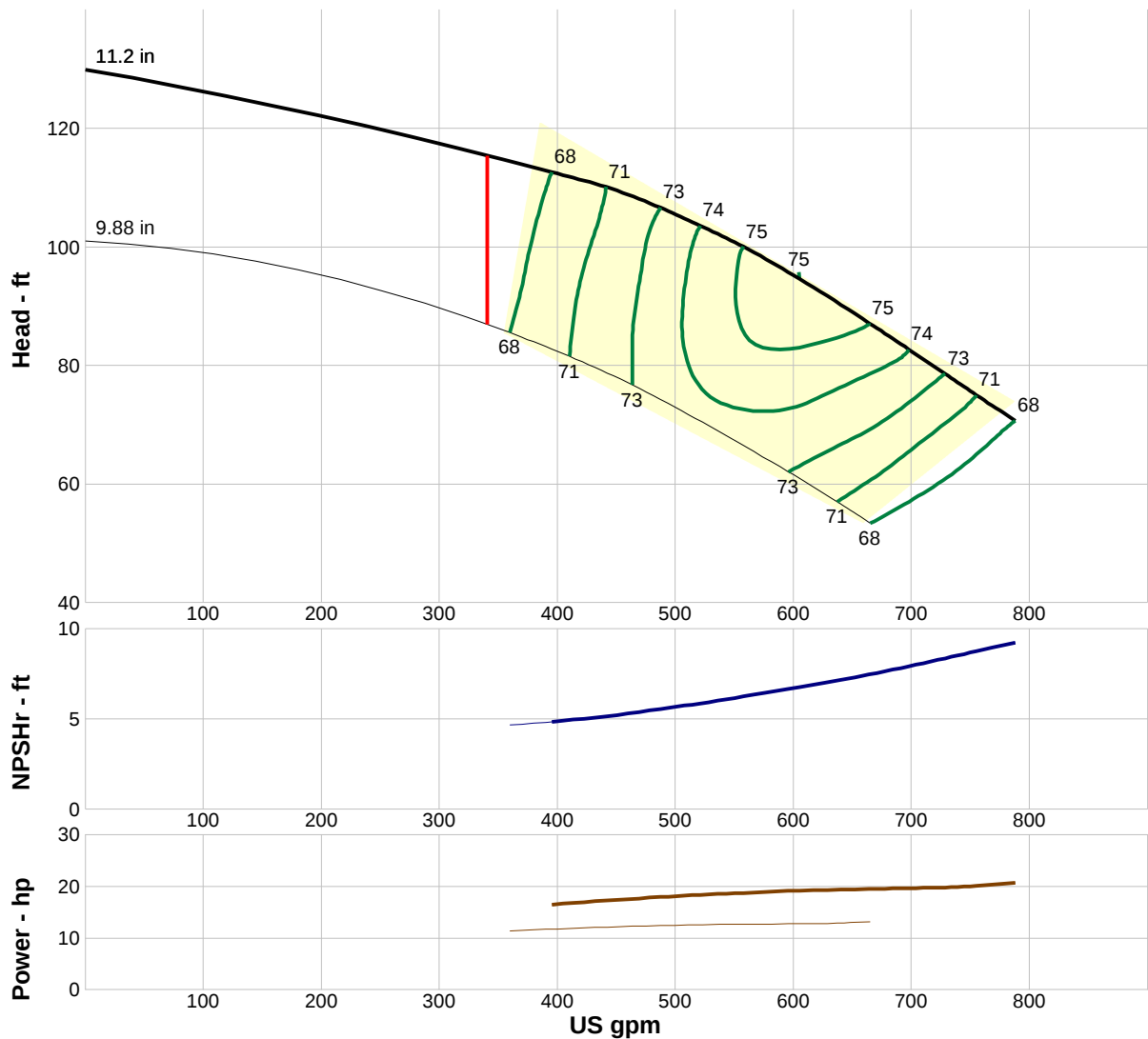
Fluid:

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: 25 hp
 Speed: 1800
 Frame: 284T

---- Data Point ----	
Flow:	605 US gpm
Head:	94.6 ft
Eff:	75%
Power:	19.2 hp
NPSHr:	6.78 ft
---- Design Curve ----	
Shutoff head:	130 ft
Shutoff dP:	56.2 psi
Min flow:	340 US gpm
BEP:	75% @ 605 US gpm
NOL power:	20.7 hp @ 788 US gpm
-- Max Curve --	
Max power:	20.7 hp @ 788 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
756	1765	74.8	71	20.2	8.79
630	1765	91.4	75	19.3	7.07
504	1765	105	74	18.2	5.72
378	1765	113	67	16.2	4.75
252	1765	---	---	---	---