

Company: Bonneville Power Administration

Name:

Date: 11/26/2006

Pump:

Size: 4"5824
 Type: 5800-HSC
 Synch speed: 1200 rpm
 Curve: 240406B
 Specific Speeds:
 Dimensions:
 Speed: 1180 rpm
 Dia: 17.5 in
 Impeller: D4D1B
 Ns: 1015
 Nss: 6981
 Suction: 5 in
 Discharge: 4 in

Pump Limits:

Temperature: 160 °F
 Pressure: 175 psi g
 Sphere size: 0.38 in
 Power: --- hp
 Eye area: --- in²

Search Criteria:

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

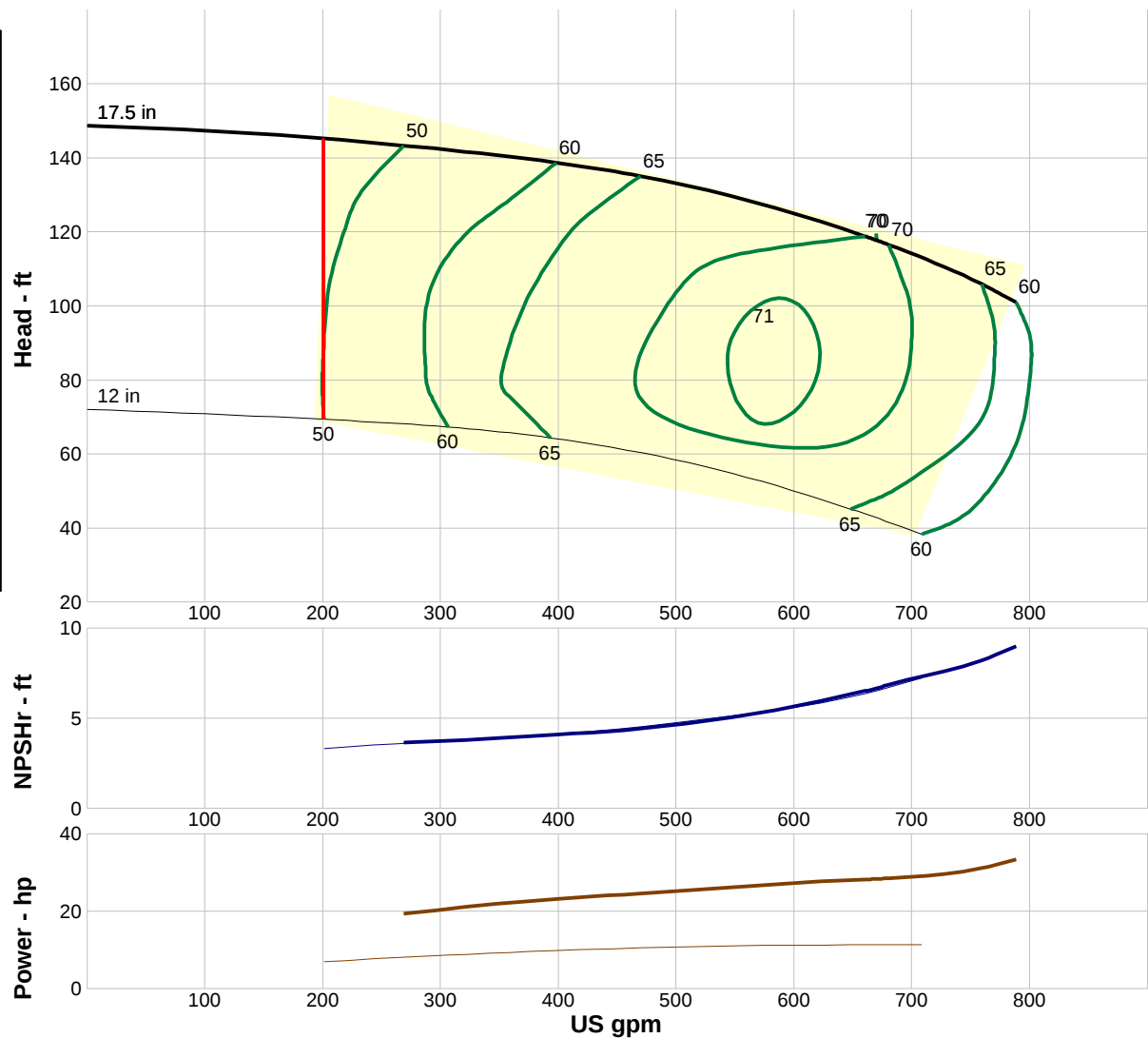
Fluid:

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: 40 hp
 Speed: 1200
 Frame: 364T

---- Data Point ----	
Flow:	670 US gpm
Head:	118 ft
Eff:	70%
Power:	28.4 hp
NPSHr:	6.68 ft
---- Design Curve ----	
Shutoff head:	149 ft
Shutoff dP:	64.3 psi
Min flow:	200 US gpm
BEP:	70% @ 670 US gpm
NOL power:	33.5 hp @ 788 US gpm
-- Max Curve --	
Max power:	33.5 hp @ 788 US gpm

**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
757	1180	106	65	31.2	8.19
631	1180	121	69	27.7	6.2
505	1180	132	66	25.3	4.82
379	1180	139	59	22.7	4.04
252	1180	144	49	18.9	3.62