

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"2824C
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 240606C
Specific Speeds:
Dimensions:
Speed: 1185 rpm
Dia: 17.57 in
Impeller: J6L1C1
Ns: 1412
Nss: 11519
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 275 psi g
Sphere size: 0.88 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

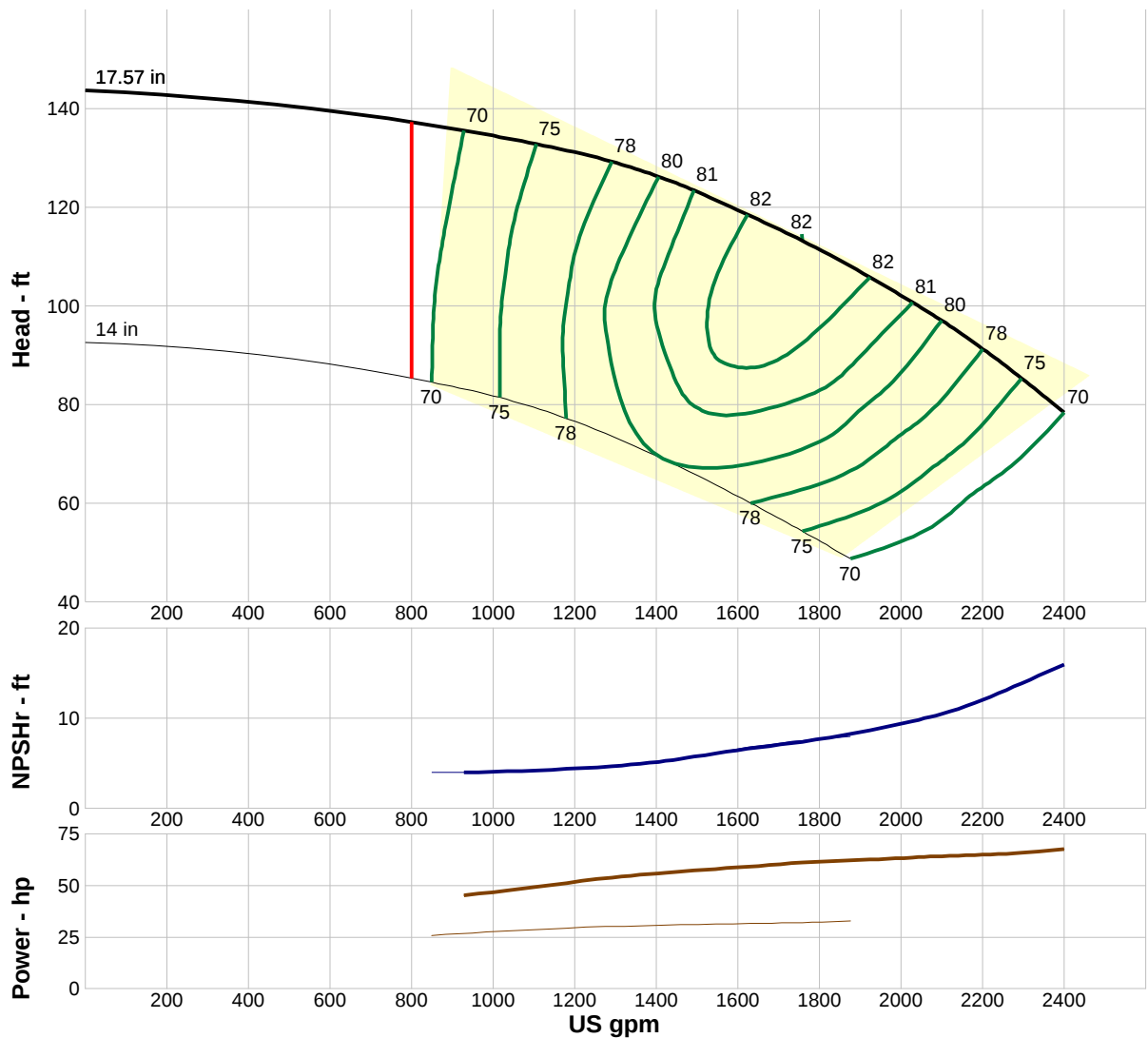
Fluid:

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
Size: 75 hp
Speed: 1200
Frame: 405T

---- Data Point ----	
Flow:	1758 US gpm
Head:	113 ft
Eff:	82%
Power:	61.2 hp
NPSHr:	7.43 ft
---- Design Curve ----	
Shutoff head:	144 ft
Shutoff dP:	62.1 psi
Min flow:	800 US gpm
BEP:	82% @ 1758 US gpm
NOL power:	67.9 hp @ 2400 US gpm
-- Max Curve --	
Max power:	67.9 hp @ 2400 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2304	1185	84.7	75	66.1	14.1
1920	1185	106	82	62.6	8.67
1536	1185	122	81	58	6.05
1152	1185	132	76	50.6	4.36
768	1185	---	---	---	---