

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 2"5876
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 760204A
Specific Speeds:
Dimensions:
Speed: 1750 rpm
Dia: 10 in
Impeller: G2B1A
Ns: 753
Nss: 6302
Suction: 3 in
Discharge: 2 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.25 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

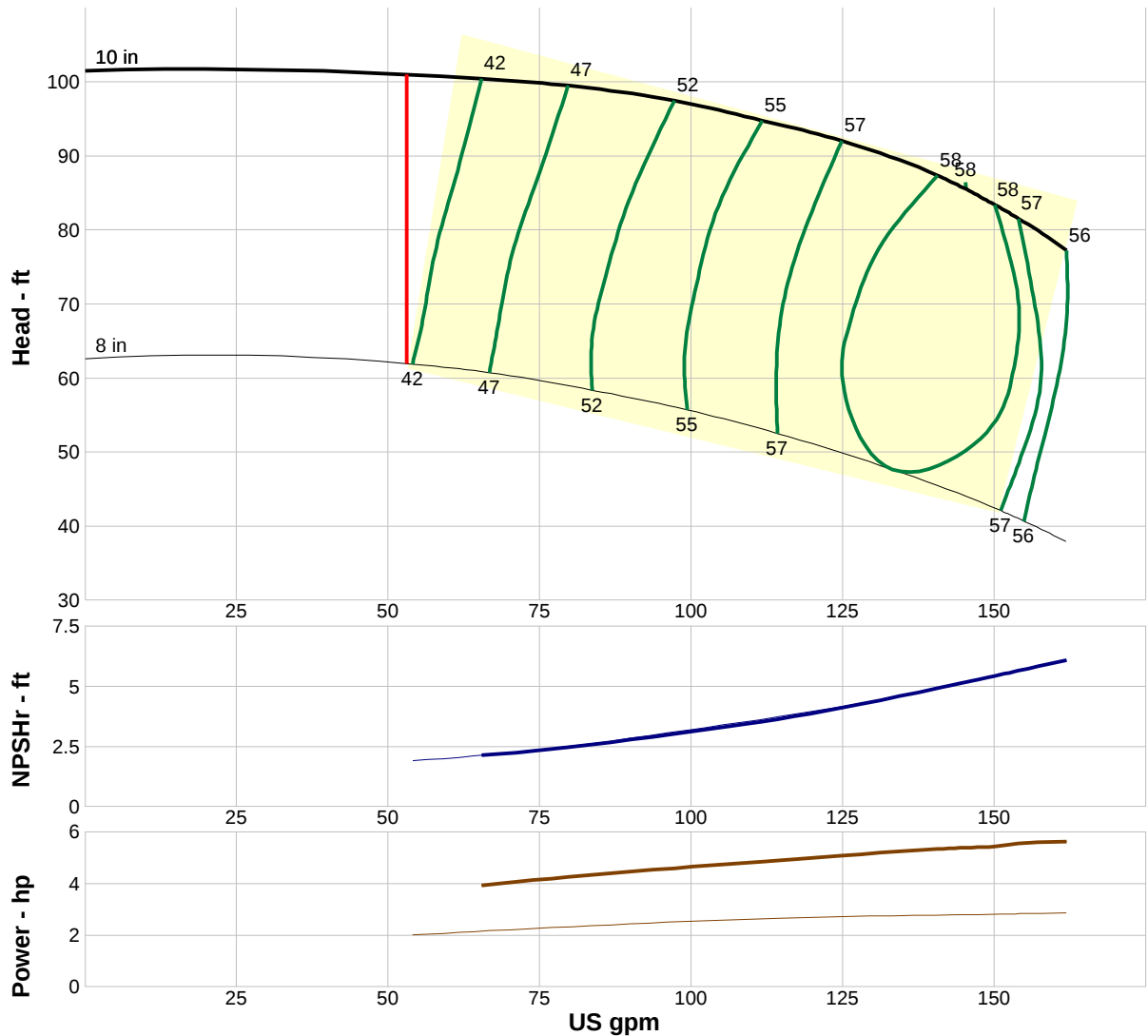
Fluid:

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: 7.5 hp
Speed: 1800
Frame: 213T

---- Data Point ----	
Flow:	145 US gpm
Head:	85.6 ft
Eff:	58%
Power:	5.4 hp
NPSHr:	5.17 ft
---- Design Curve ----	
Shutoff head:	102 ft
Shutoff dP:	43.9 psi
Min flow:	53 US gpm
BEP:	58% @ 145 US gpm
NOL power:	5.64 hp @ 162 US gpm
-- Max Curve --	
Max power:	5.64 hp @ 162 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
156	1750	80.4	57	5.58	5.77
130	1750	90.5	57	5.17	4.38
104	1750	96.2	53	4.72	3.26
78	1750	99.6	46	4.22	2.43
52	1750	---	---	---	---