

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 6"5876
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 760604A
Specific Speeds:
Dimensions:
Speed: 1770 rpm
Dia: 10 in
Impeller: G6B1A
Ns: 2216
Nss: 10789
Suction: 10 in
Discharge: 6 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.63 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

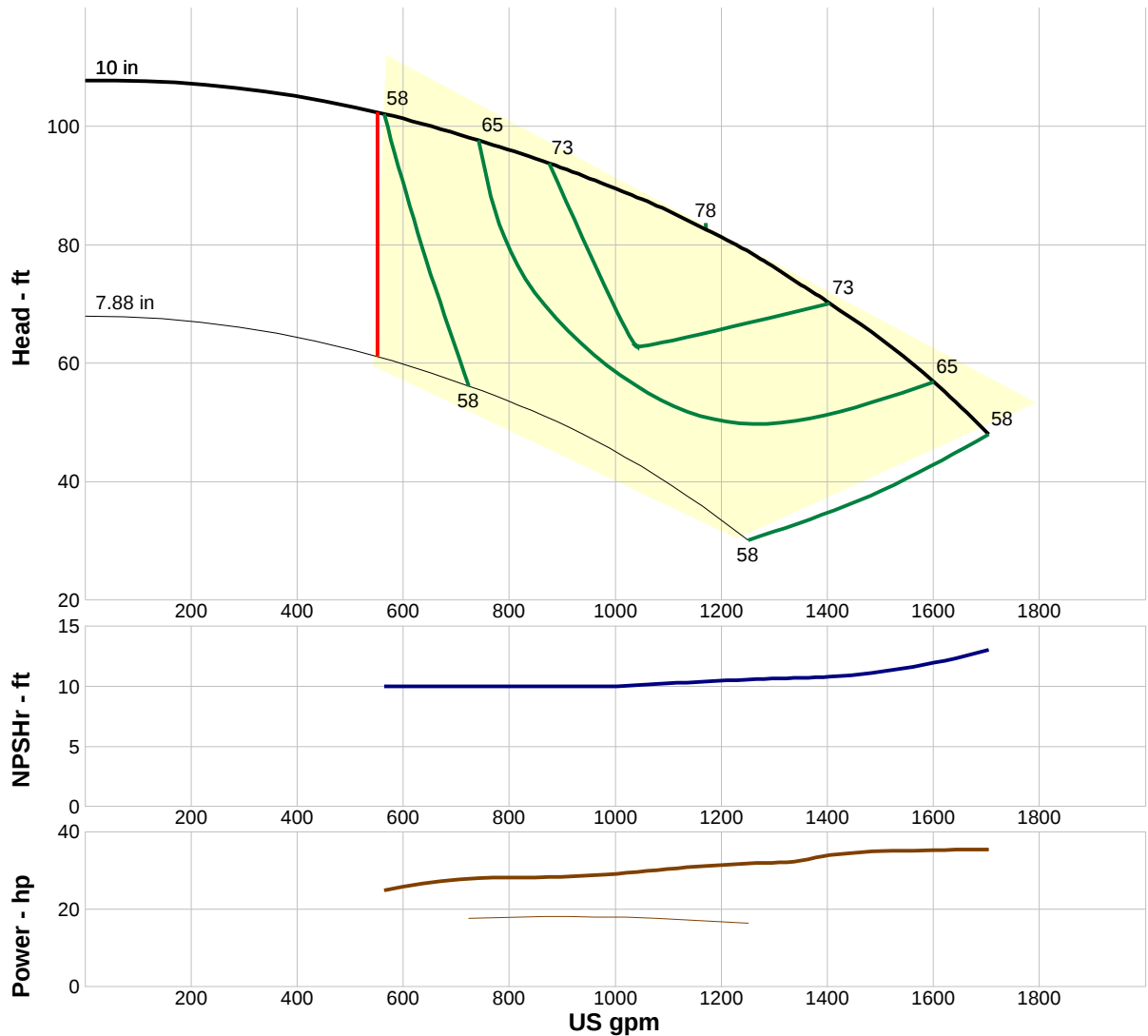
Fluid:

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: 1800
Frame: 324T

---- Data Point ----	
Flow:	1171 US gpm
Head:	82.6 ft
Eff:	78%
Power:	31.3 hp
NPSHr:	10.4 ft
---- Design Curve ----	
Shutoff head:	108 ft
Shutoff dP:	46.6 psi
Min flow:	550 US gpm
BEP:	78% @ 1171 US gpm
NOL power:	35.6 hp @ 1703 US gpm
-- Max Curve --	
Max power:	35.6 hp @ 1703 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1634	1770	53.9	63	35.4	12.3
1362	1770	72.5	75	33	10.7
1090	1770	86.1	78	30.4	10.2
817	1770	95.4	70	28.3	10
545	1770	---	---	---	---