

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 4"2823C
Type: 2800-HSC
Synch speed: 1200 rpm
Curve: 230406C
Specific Speeds:
Dimensions:
Speed: 1175 rpm
Dia: 14.4 in
Impeller: J4H1C1
Ns: 1135
Nss: 5897
Suction: 6 in
Discharge: 4 in

Pump Limits:

Temperature: 160 °F
Pressure: 250 psi g
Sphere size: 0.63 in
Power: --- hp
Eye area: --- in²

Search Criteria:

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

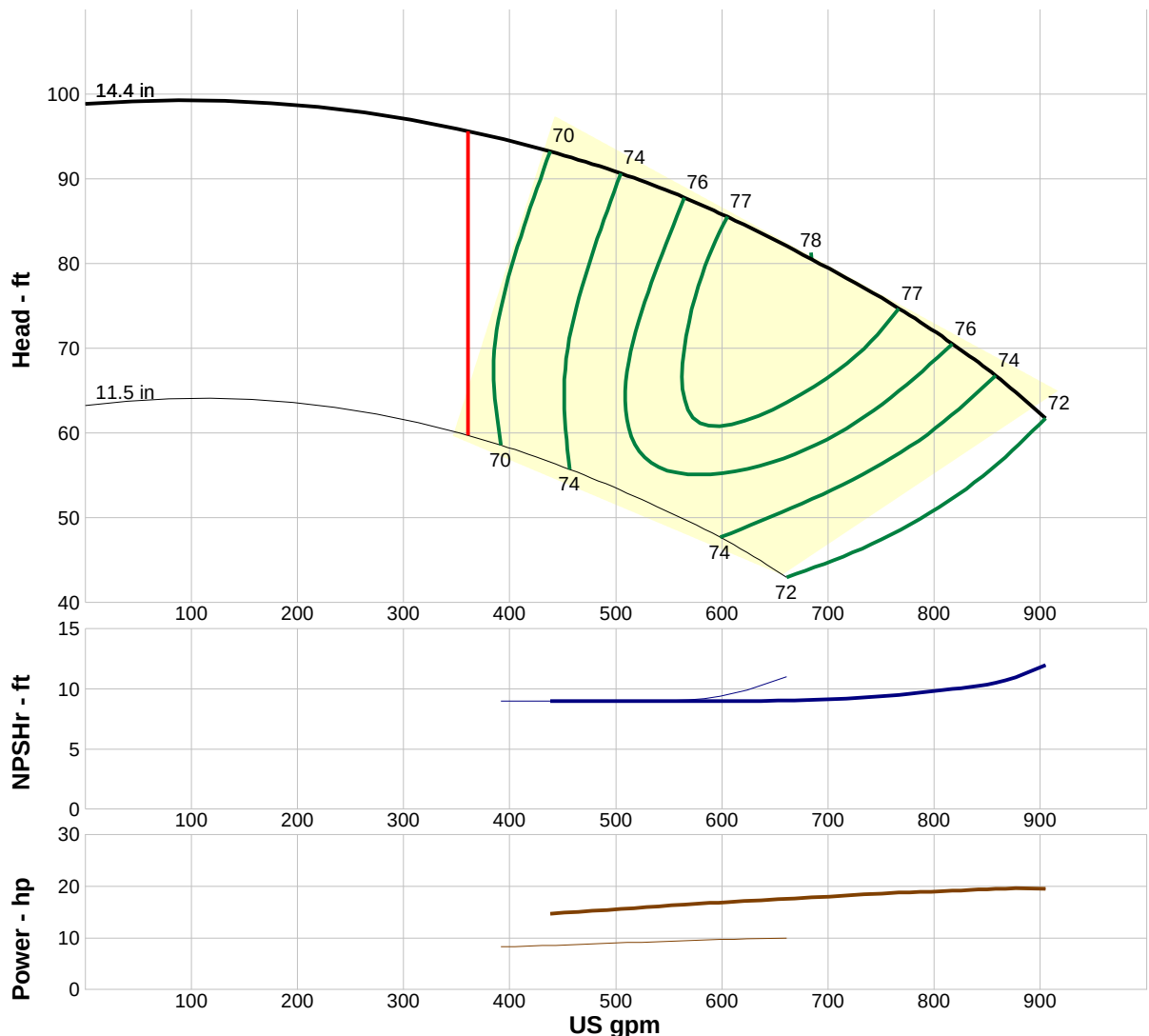
Fluid:

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: 20 hp
Speed: 1200
Frame: 286T

---- Data Point ----	
Flow:	684 US gpm
Head:	80.5 ft
Eff:	78%
Power:	17.8 hp
NPSHr:	9.1 ft
---- Design Curve ----	
Shutoff head:	98.9 ft
Shutoff dP:	42.7 psi
Min flow:	360 US gpm
BEP:	78% @ 684 US gpm
NOL power:	19.6 hp @ 904 US gpm
-- Max Curve --	
Max power:	19.6 hp @ 904 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
868	1175	65.7	74	19.6	10.8
723	1175	77.8	78	18.3	9.29
578	1175	87.1	76	16.6	9
434	1175	93.3	70	14.7	9
289	1175	---	---	---	---