

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H20P (1 stage)
 Type: AxialFlow
 Synch speed: 880 rpm
 Curve: H20P
 Specific Speeds:
 Dimensions:
 Speed: 880 rpm
 Dia: 5 in
 Impeller:
 Ns: 880
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: 50 psi g
 Sphere size: 3 in
 Power: 150 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

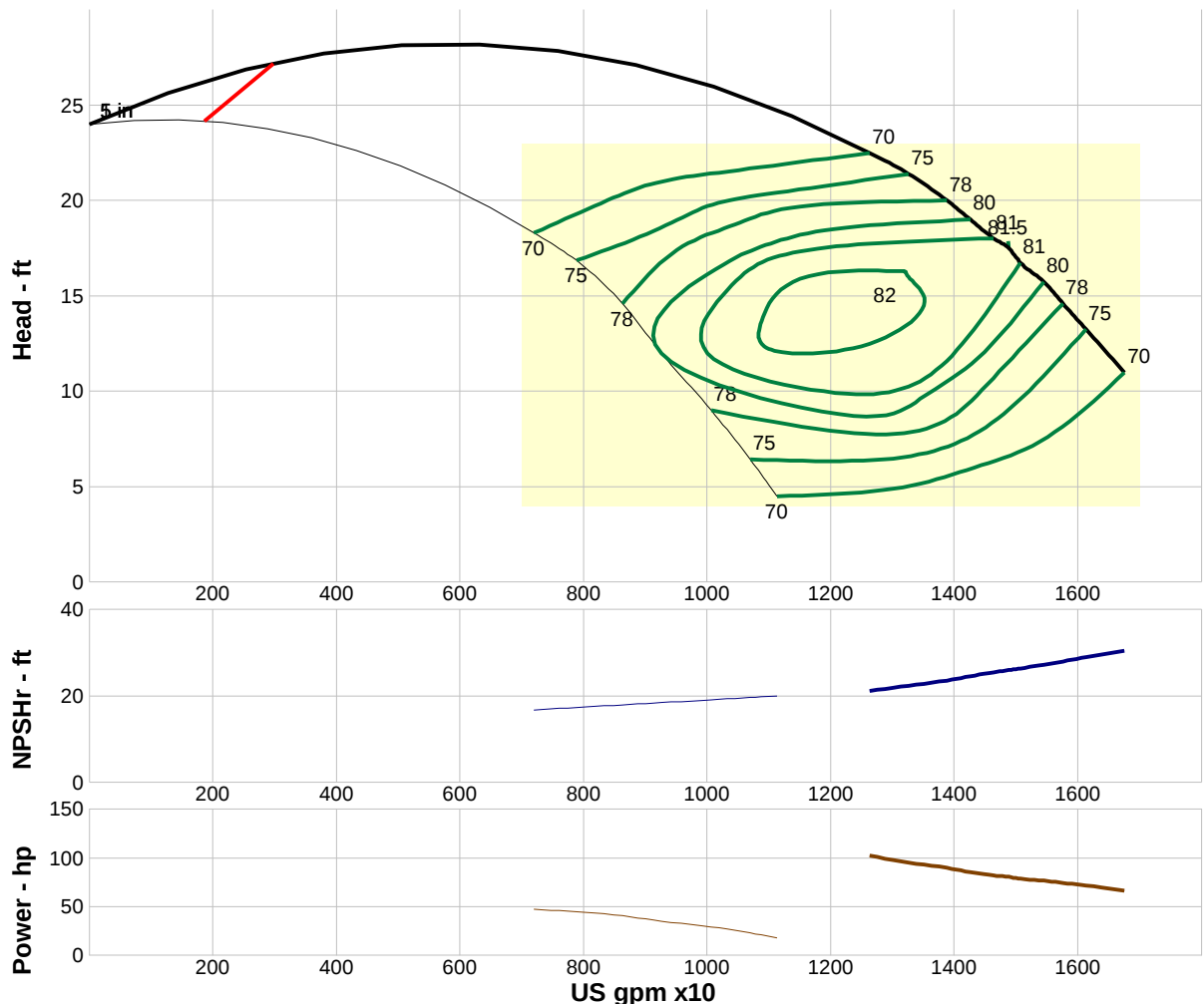
Motor:

Standard: NEMA
 Enclosure: TEFC
 Sizing criteria: Max Power on Design Curve
 --- hp
 Speed: ---
 Frame: ---

Pump Selection Warnings:

Design curve maximum power exceeds limit for the pump.

---- Data Point ----	
Flow:	14875 US gpm
Head:	17.5 ft
Eff:	81.5%
Power:	80.7 hp
NPSHr:	26 ft
---- Design Curve ----	
Shutoff head:	24 ft
Shutoff dP:	10.4 psi
Min flow:	2975 US gpm
BEP:	81.5% @ 14875 US gpm
NOL power:	184 hp @ 5388 US gpm
-- Max Curve --	
Max power:	184 hp @ 5388 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
16080	880	13.4	75.4	72.2	28.9
13400	880	21.1	75.7	94.1	22.7
10720	880	22.7	54.8	124	17.5
8040	880	23	33.3	154	12.4
5360	880	23.4	11.9	184	7.25