

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: H16P (1 stage)
 Type: AxialFlow
 Synch speed: 1160 rpm
 Curve: H16P
 Specific Speeds:
 Dimensions:
 Speed: 1160 rpm
 Dia: 5 in
 Impeller:
 Ns: 1160
 Nss: ---
 Suction: --- in
 Discharge: --- in

Pump Limits:

Temperature: 140 °F
 Pressure: --- psi g
 Sphere size: 2 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

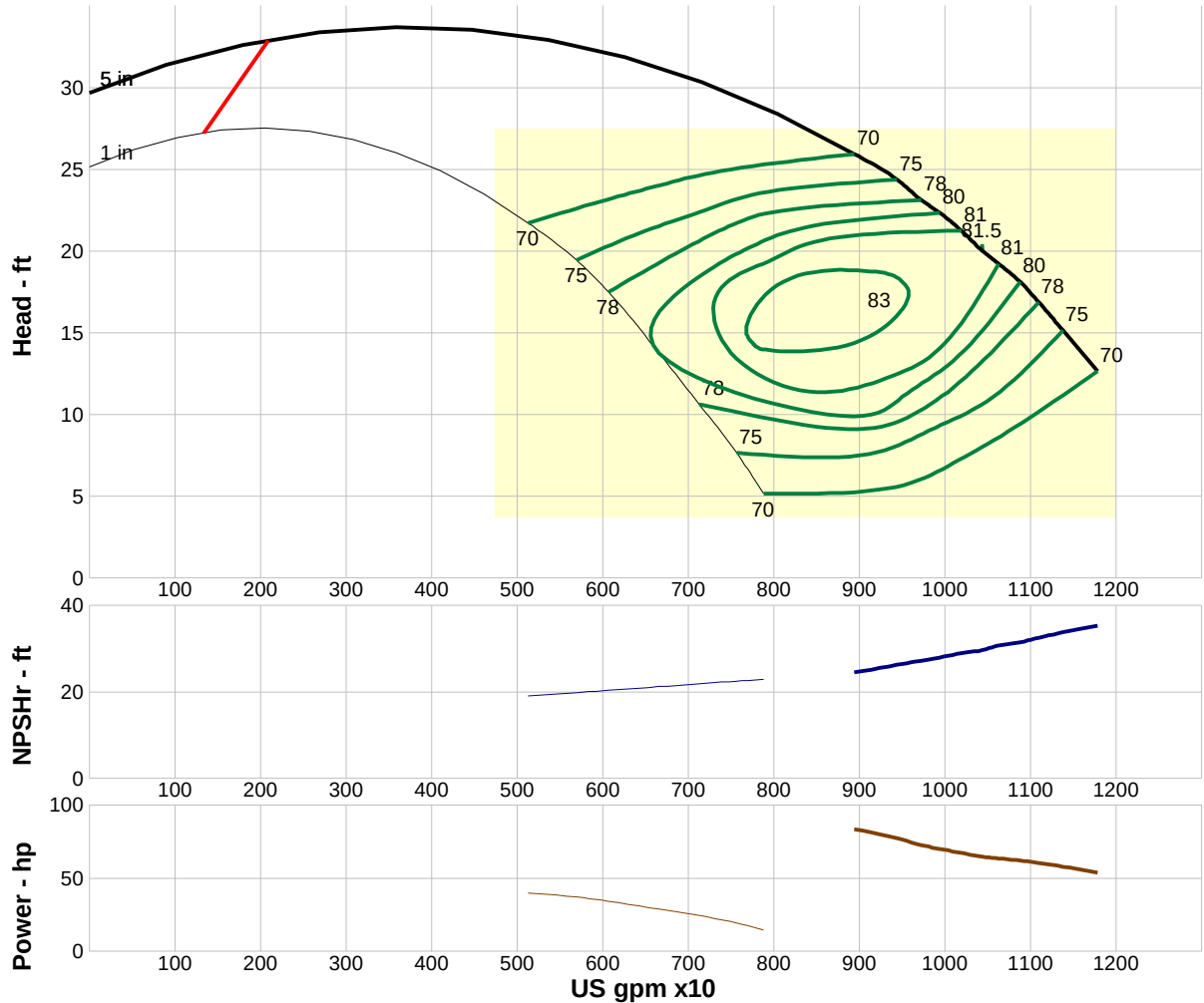
Motor:

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:	10438 US gpm
Head:	20 ft
Eff:	81.5%
Power:	64.7 hp
NPSHr:	29.7 ft
---- Design Curve ----	
Shutoff head:	29.7 ft
Shutoff dP:	12.8 psi
Min flow:	2088 US gpm
BEP:	81.5% @ 10438 US gpm
NOL power:	168 hp @ 2088 US gpm
-- Max Curve --	
Max power:	168 hp @ 2088 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
11310	1160	15.6	75.7	58.6	33.5
9425	1160	24.4	74.9	77.6	26.3
7540	1160	26.5	56	101	19.5
5655	1160	27.3	37.2	124	12.7
3770	1160	28.1	18.3	147	5.9