

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 10"5826
Type: 5800-HSC
Synch speed: 1800 rpm
Curve: 261004A
Specific Speeds:
Dimensions:
Speed: 1785 rpm
Dia: 25.5 in
Impeller: D10F1A
Ns: 1331
Nss: 7855
Suction: 14 in
Discharge: 10 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 1.38 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

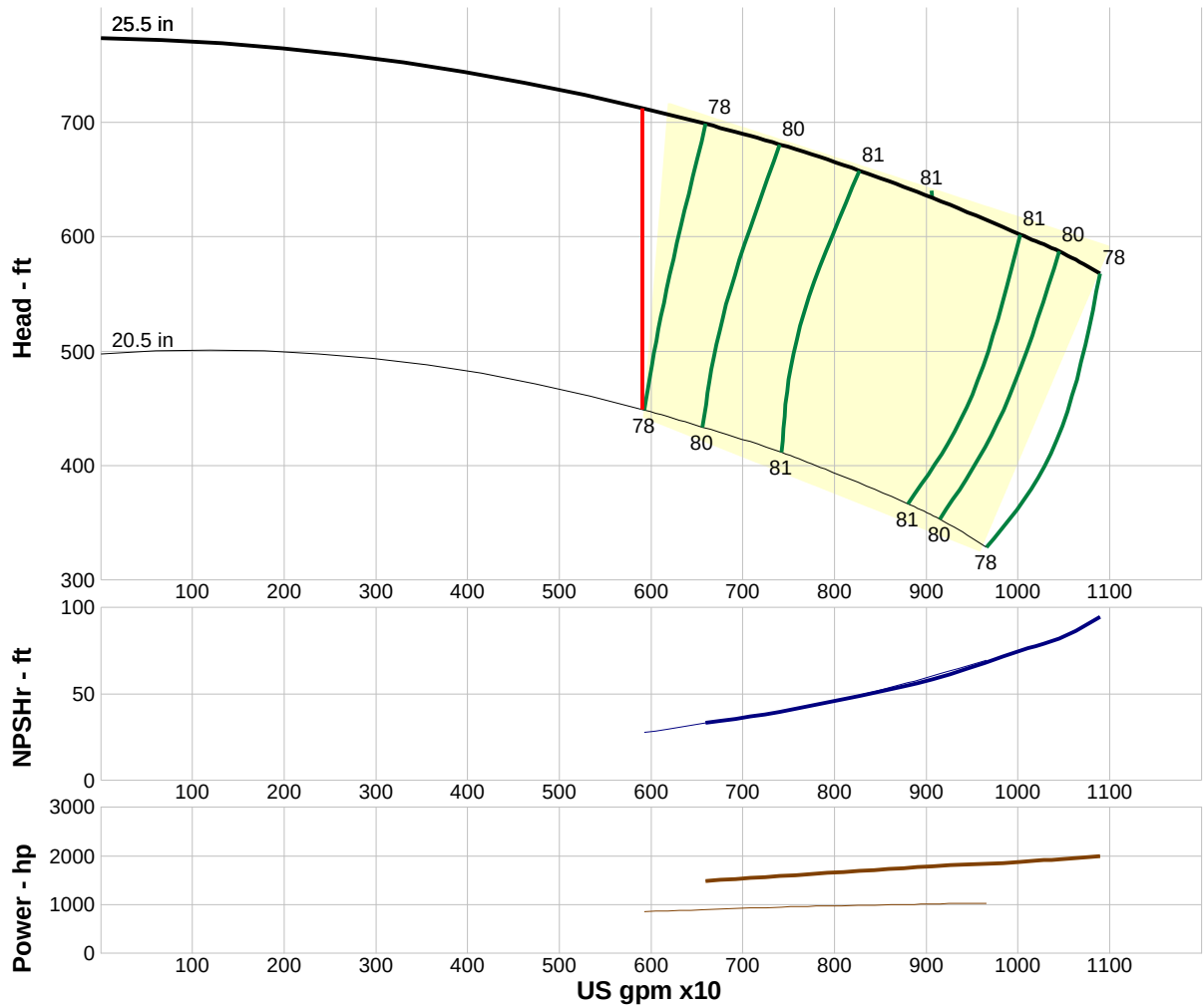
Motor:

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

Pump Selection Warnings:

Pump shutoff dP exceeds limit for the pump.

---- Data Point ----	
Flow:	9060 US gpm
Head:	634 ft
Eff:	81%
Power:	1789 hp
NPSHr:	58.5 ft
---- Design Curve ----	
Shutoff head:	774 ft
Shutoff dP:	334 psi
Min flow:	5900 US gpm
BEP:	81% @ 9060 US gpm
NOL power:	2003 hp @ 10890 US gpm
-- Max Curve --	
Max power:	2003 hp @ 10890 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
10454	1785	587	80	1937	82.5
8712	1785	645	81	1748	54.3
6970	1785	690	79	1537	36.3
5227	1785	---	---	---	---
3485	1785	---	---	---	---