

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 8"5826
 Type: 5800-HSC
 Synch speed: 1800 rpm
 Curve: 260804A
 Specific Speeds:
 Dimensions:
 Speed: 1785 rpm
 Dia: 24 in
 Impeller: D8F1A
 Ns: 1099
 Nss: 12862
 Suction: 12 in
 Discharge: 8 in

Pump Limits:

Temperature: 160 °F
 Pressure: 250 psi g
 Sphere size: 1 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

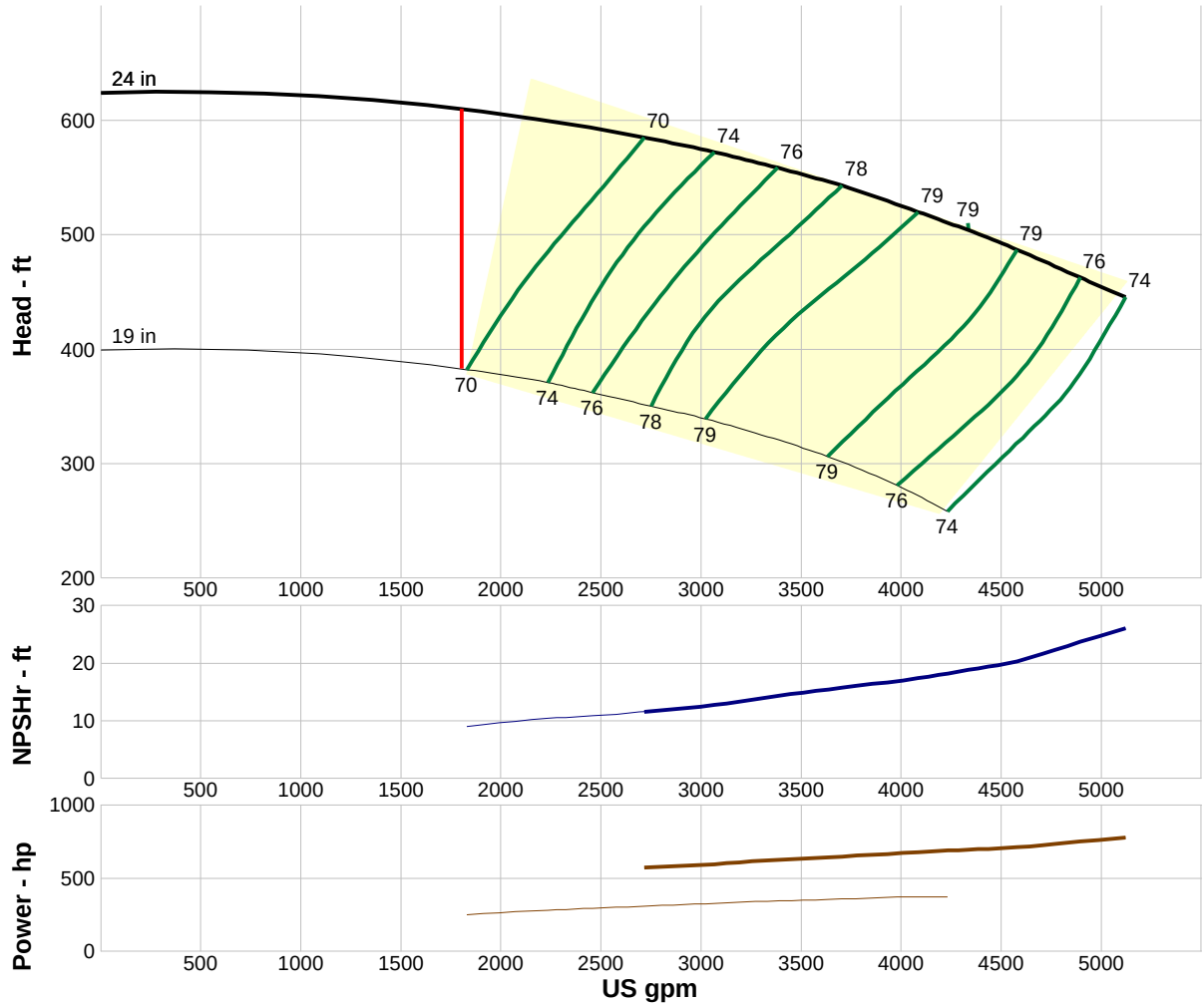
Motor:

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:	4335 US gpm
Head:	504 ft
Eff:	79%
Power:	697 hp
NPSHr:	18.8 ft
---- Design Curve ----	
Shutoff head:	624 ft
Shutoff dP:	270 psi
Min flow:	1800 US gpm
BEP:	79% @ 4335 US gpm
NOL power:	778 hp @ 5118 US gpm
-- Max Curve --	
Max power:	778 hp @ 5118 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
4913	1785	461	76	754	23.9
4094	1785	519	79	679	17.5
3275	1785	563	75	618	13.8
2456	1785	589	67	554	10.7
1638	1785	---	---	---	---