

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 2"5876
Type: 5800-HSC
Synch speed: 3600 rpm
Curve: 760202A
Specific Speeds:
Dimensions:
Speed: 3560 rpm
Dia: 10 in
Impeller: G2B1A
Ns: 756
Nss: 6465
Suction: 3 in
Discharge: 2 in

Pump Limits:

Temperature: 160 °F
Pressure: 175 psi g
Sphere size: 0.25 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

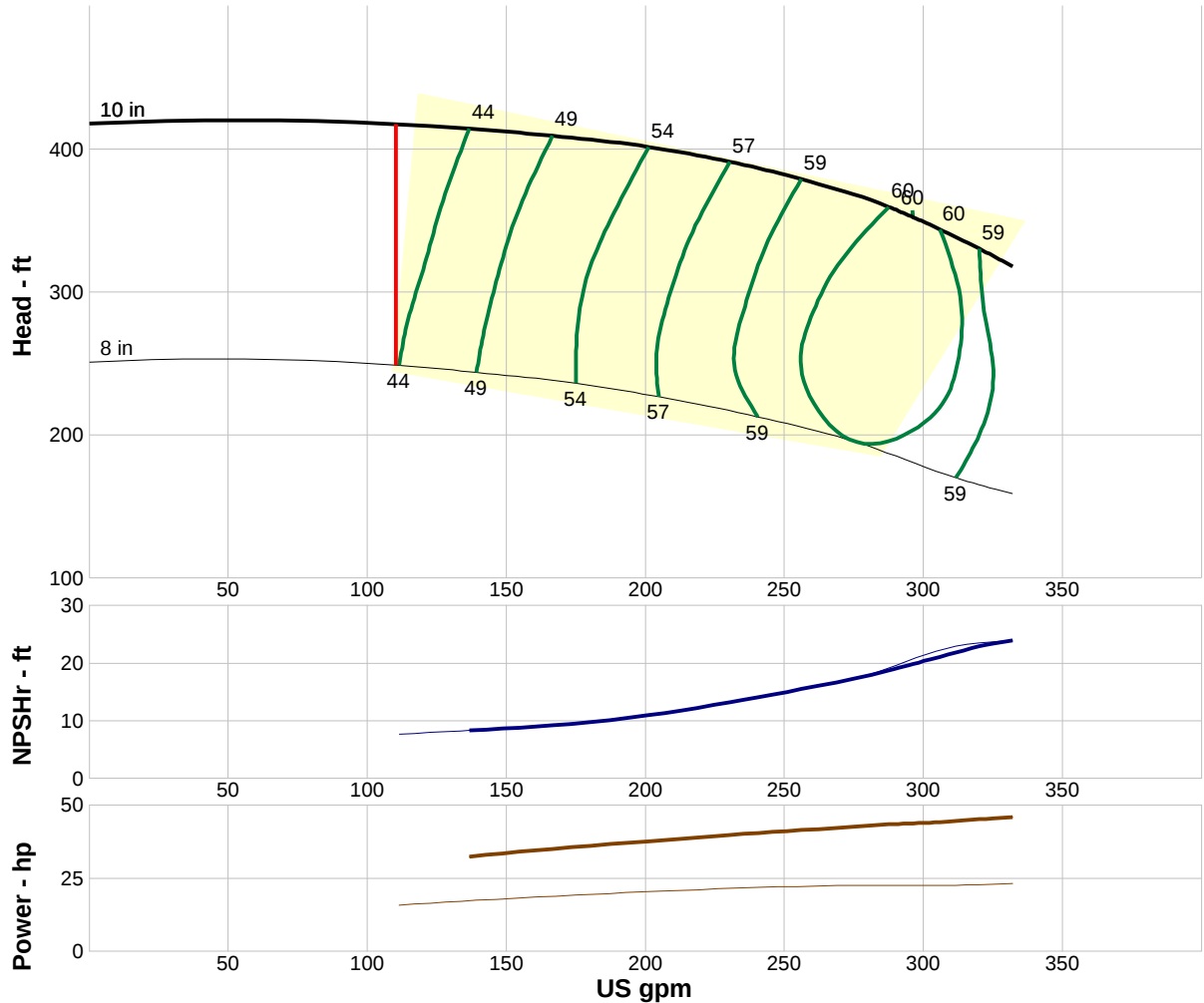
Motor:

Standard: NEMA
Enclosure: TEFC
Sizing criteria: Max Power on Design Curve
Size: 50 hp
Speed: 3600
Frame: 326TS

Pump Selection Warnings:

Pump shutoff dP exceeds limit for the pump.

---- Data Point ----	
Flow:	296 US gpm
Head:	352 ft
Eff:	60%
Power:	43.8 hp
NPSHr:	19.9 ft
---- Design Curve ----	
Shutoff head:	418 ft
Shutoff dP:	181 psi
Min flow:	110 US gpm
BEP:	60% @ 296 US gpm
NOL power:	46 hp @ 332 US gpm
-- Max Curve --	
Max power:	46 hp @ 332 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
319	3560	331	59	45.1	22.8
266	3560	373	59	42.1	16.5
213	3560	397	55	38.6	11.9
160	3560	410	48	34.5	9.05
106	3560	---	---	---	---