

Company: Bonneville Power Administration

Name:

Date: 11/26/2006



Pump:

Size: 5"2874A
Type: 2800-HSC
Synch speed: 1800 rpm
Curve: 740504A
Specific Speeds:
Dimensions:
Speed: 1770 rpm
Dia: 9.05 in
Impeller: J5C1A1
Ns: 2763
Nss: 10858
Suction: 8 in
Discharge: 5 in

Pump Limits:

Temperature: 160 °F
Pressure: 300 psi g
Sphere size: 0.86 in
Power: --- hp
Eye area: --- in²

Search Criteria:

Flow: --- US gpm
Head: --- ft

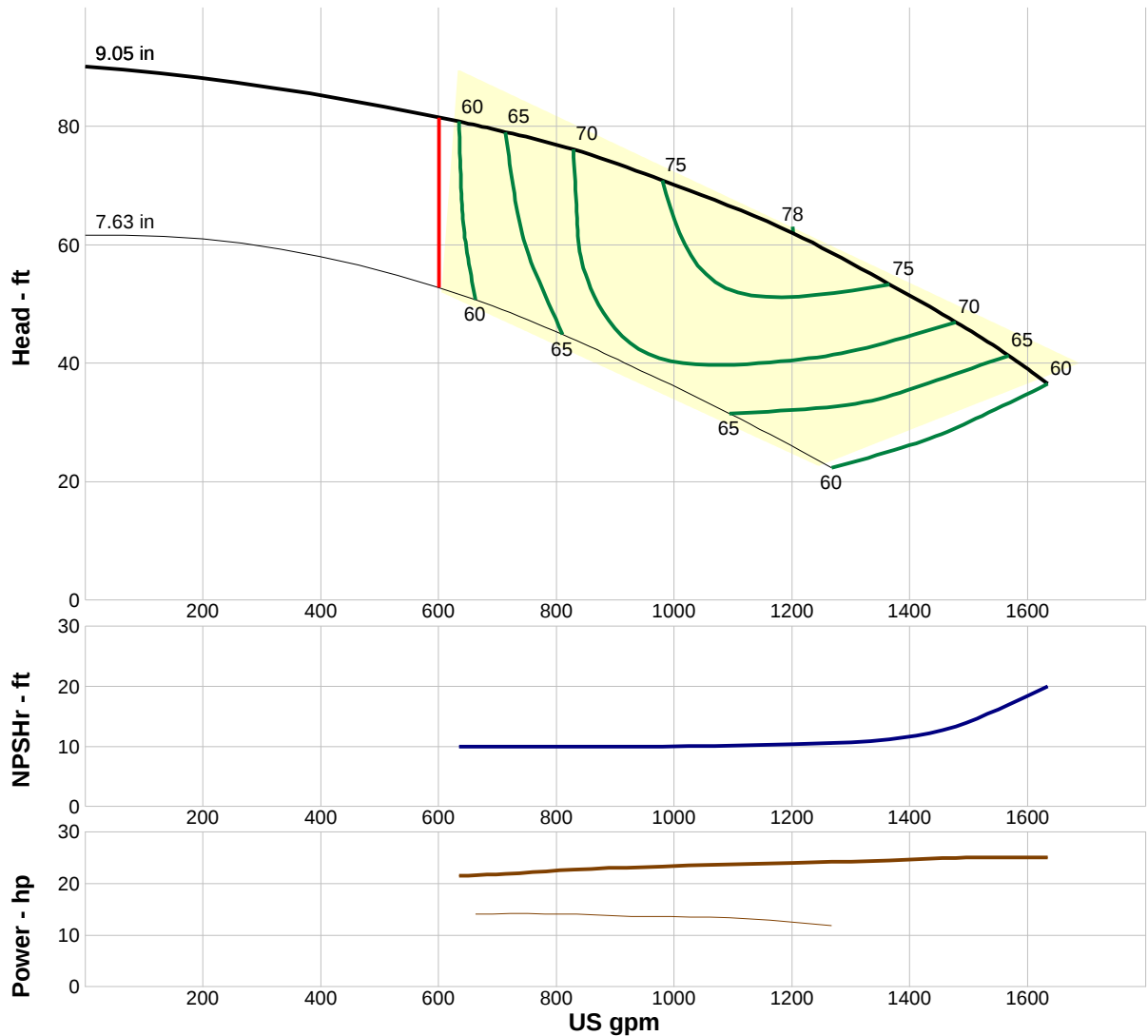
Fluid:

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: 30 hp
Speed: 1800
Frame: 286T

---- Data Point ----	
Flow:	1201 US gpm
Head:	61.9 ft
Eff:	78%
Power:	24.1 hp
NPSHr:	10.4 ft
---- Design Curve ----	
Shutoff head:	90.1 ft
Shutoff dP:	39 psi
Min flow:	600 US gpm
BEP:	78% @ 1201 US gpm
NOL power:	25.1 hp @ 1567 US gpm
-- Max Curve --	
Max power:	25.1 hp @ 1567 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
1567	1770	41.3	65	25.1	17
1306	1770	56.4	76	24.3	10.9
1045	1770	68.2	76	23.6	10.1
784	1770	77.2	68	22.4	10
522	1770	---	---	---	---