

Company: Bonneville Power Administration

Name:

Date: 11/25/2006



Pump:

Size: 14MC-2C (1 stage)
 Type: Vertical
 Synch speed: 1760 rpm
 Curve: 14MC-2C
 Specific Speeds:
 Dimensions:
 Vertical Turbine:
 Speed: 1760 rpm
 Dia: 10.875 in
 Impeller:
 Ns: 1760
 Nss: ---
 Suction: 10 in
 Discharge: 10 in
 Bowl size: 14 in
 Max lateral: 0.625 in
 Thrust K factor: 10 lb/ft

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

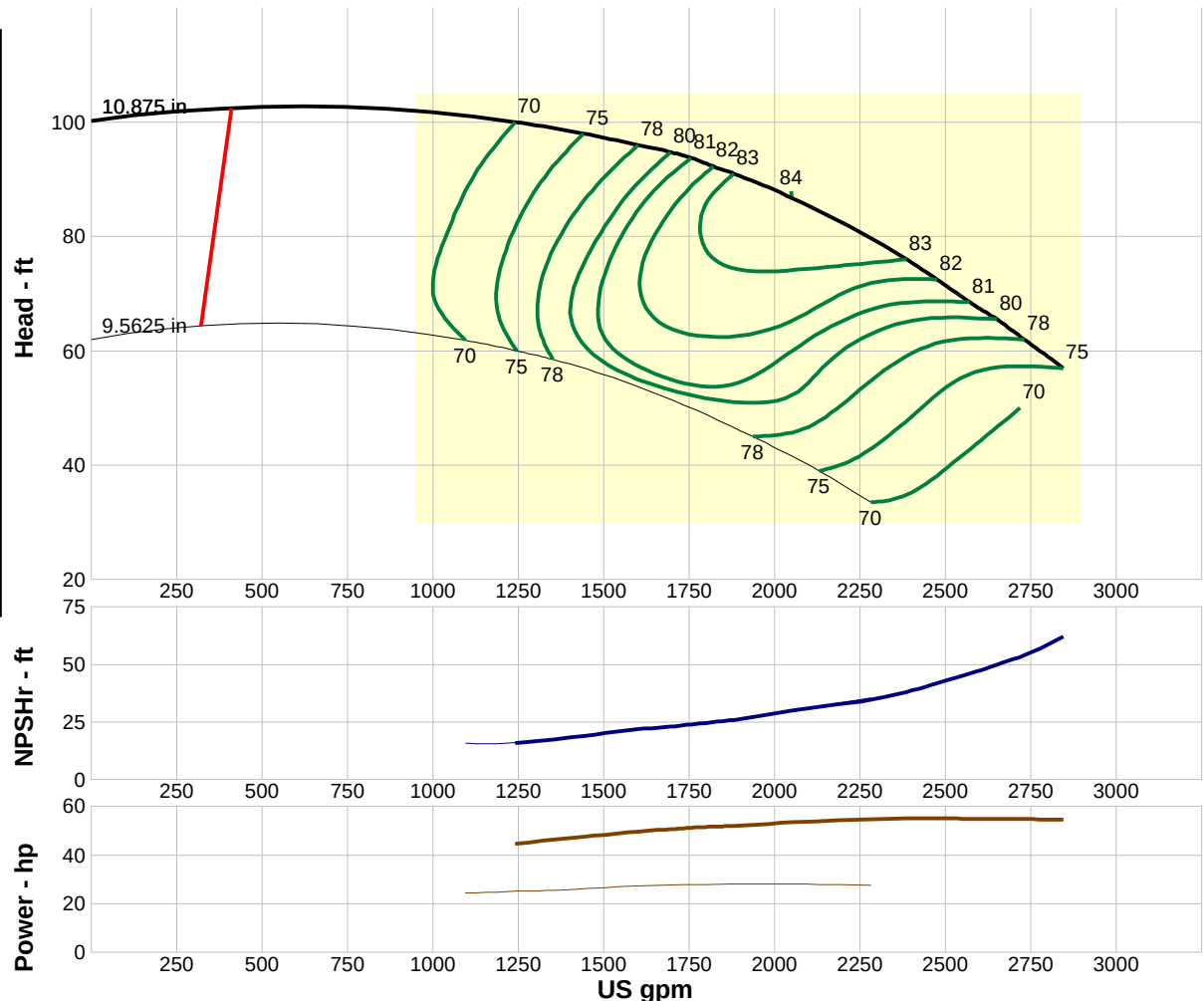
Motor:

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

Pump Limits:

Temperature: 140 °F
 Pressure: 303 psi g
 Sphere size: 1 in
 Power: 450 hp
 Eye area: --- in²

---- Data Point ----	
Flow:	2050 US gpm
Head:	86.8 ft
Eff:	84%
Power:	53.5 hp
NPSHr:	30 ft
---- Design Curve ----	
Shutoff head:	100 ft
Shutoff dP:	43.3 psi
Min flow:	410 US gpm
BEP:	84% @ 2050 US gpm
NOL power:	55.3 hp @ 2475 US gpm
-- Max Curve --	
Max power:	55.3 hp @ 2475 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
2731	1760	62	78	54.8	54.1
2276	1760	79.5	83.3	54.6	35.4
1821	1760	92.2	82	51.7	25
1366	1760	98.7	73.2	46.5	17.9
910	1760	100	61.8	40.1	11.1