



Company: National Energy Equipment

Name:

Date: 5/8/2009

**Pump:**

Size: RD2A-B-1  
 Type: RS/RD-Series  
 Synch speed: 3600 rpm  
 Curve: RD2A-B-1  
 Specific Speeds:  
 Dimensions:  
 Speed: 3450 rpm  
 Dia: 8.5 in  
 Impeller: 38621-730  
 Ns: ---  
 Nss: ---  
 Suction: 3 in  
 Discharge: 2 in

**Search Criteria:**

Flow: --- Head: ---

**Fluid:**

Water  
 SG: 1  
 Viscosity: 1.105 cP  
 NPSHa: ---  
 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: 40 hp  
 Speed: 3600  
 Frame: 324TS

**Pump Limits:**

Temperature: ---  
 Pressure: ---  
 Sphere size: ---  
 Power: ---  
 Eye area: ---

**---- Data Point ----**

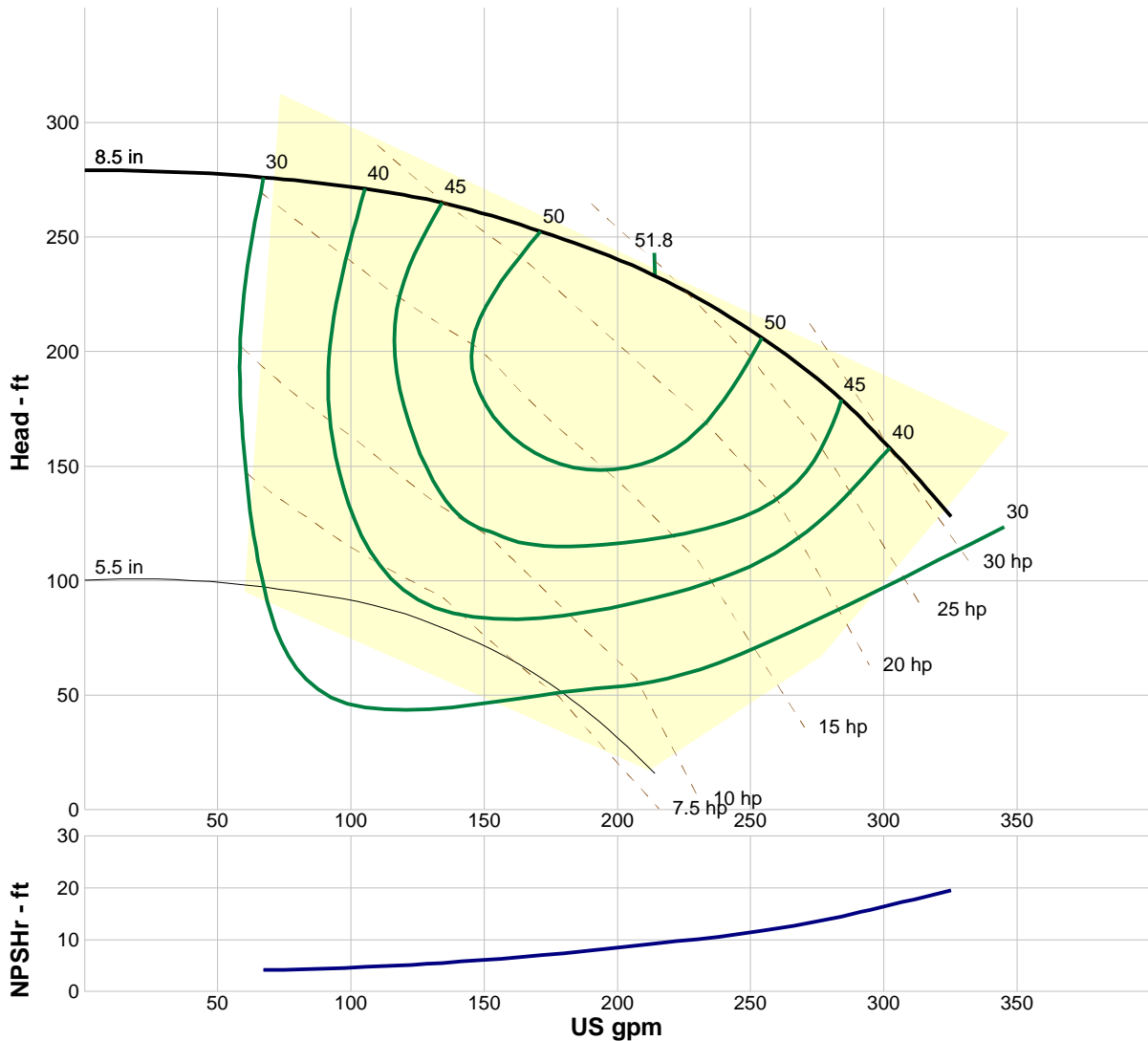
Flow: 214 US gpm  
 Head: 233 ft  
 Eff: 51.8%  
 Power: 24.3 hp  
 NPSHr: 9.25 ft

**---- Design Curve ----**

Shutoff head: 279 ft  
 Shutoff dP: 121 psi  
 Min flow: ---  
 BEP: 51.8% @ 214 US gpm  
 NOL power:  
 30.9 hp @ 325 US gpm

**-- Max Curve --**

Max power:  
 30.9 hp @ 325 US gpm



**Performance Evaluation:**

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
312	3450	145	37.4	30.4	17.9
260	3450	201	49	26.8	12.3
208	3450	236	51.5	24	8.94
156	3450	258	48	21	6.41
104	3450	271	39.7	17.9	4.72