



Company: National Energy Equipment

Name:

Date: 5/8/2009

Pump:

Size: RD3A-B-1
 Type: RS/RD-Series
 Synch speed: 3600 rpm
 Curve: RD3A-B-1
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 8.5 in
 Impeller: 38623-530
 Ns: ---
 Nss: ---
 Suction: 4 in
 Discharge: 3 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: 60 hp
 Speed: 3600
 Frame: 364TS

Pump Limits:

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

---- Data Point ----

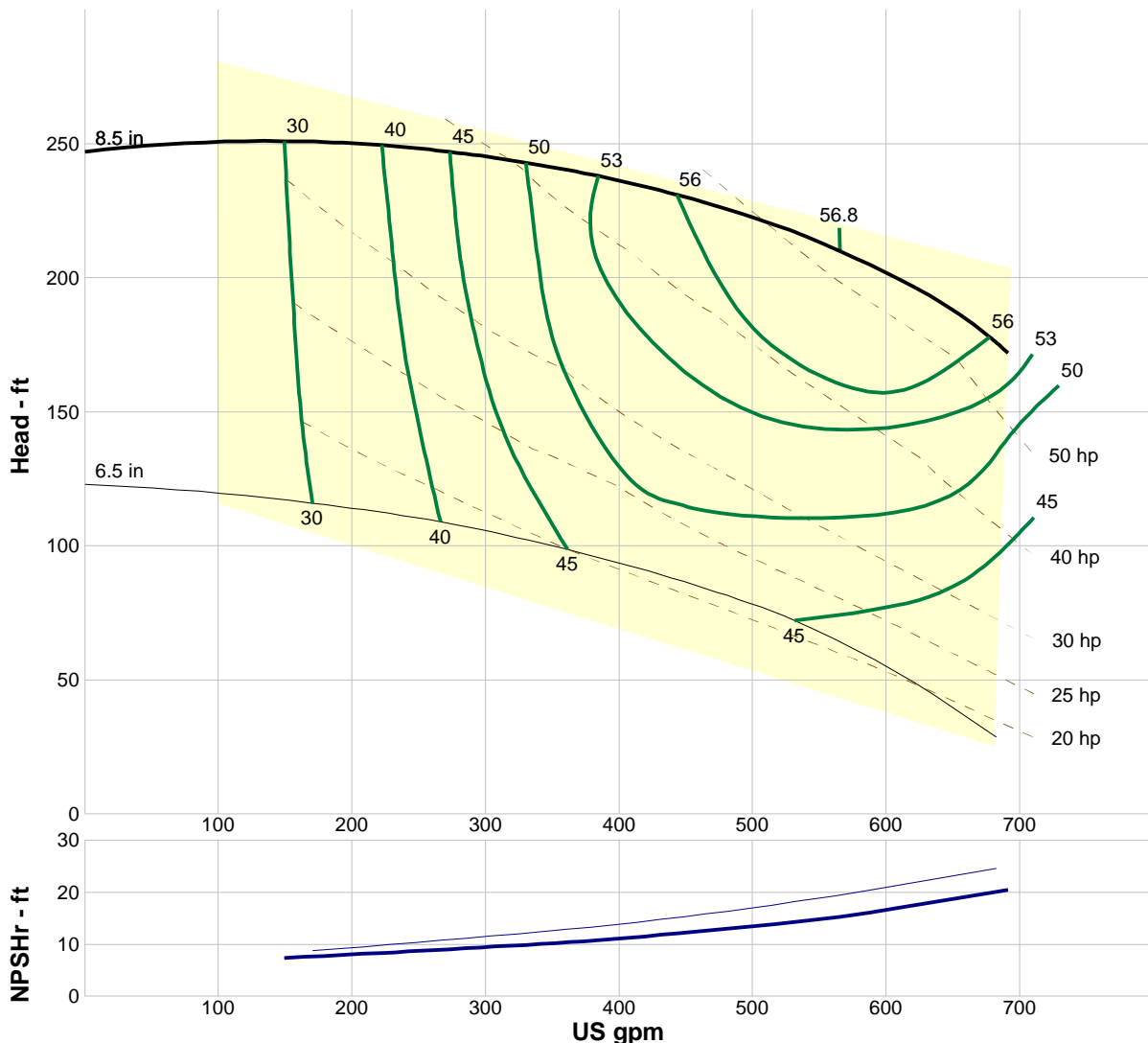
Flow: 565 US gpm
 Head: 210 ft
 Eff: 56.8%
 Power: 52.8 hp
 NPSHr: 15.3 ft

---- Design Curve ----

Shutoff head: 247 ft
 Shutoff dP: 107 psi
 Min flow: ---
 BEP: 56.8% @ 565 US gpm
 NOL power:
 55.3 hp @ 691 US gpm

-- Max Curve --

Max power:
 55.3 hp @ 691 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
664	3450	182	56.1	54.2	19.4
553	3450	212	56.7	52.1	15
442	3450	231	55.9	46.1	12.1
332	3450	243	50.1	40.6	9.94
221	3450	250	39.9	34.9	8.34