



Company: National Energy Equipment

Name:

Date: 5/8/2009

Pump:

Size: RD4A-B-1
 Type: RS/RD-Series
 Synch speed: 3600 rpm
 Curve: RD4A-B-1
 Specific Speeds:
 Dimensions:
 Speed: 3450 rpm
 Dia: 10.25 in
 Impeller: 38628-548
 Ns: ---
 Nss: ---
 Suction: 6 in
 Discharge: 4 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: 100 hp
 Speed: 3600
 Frame: 405TS

Pump Limits:

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

---- Data Point ----

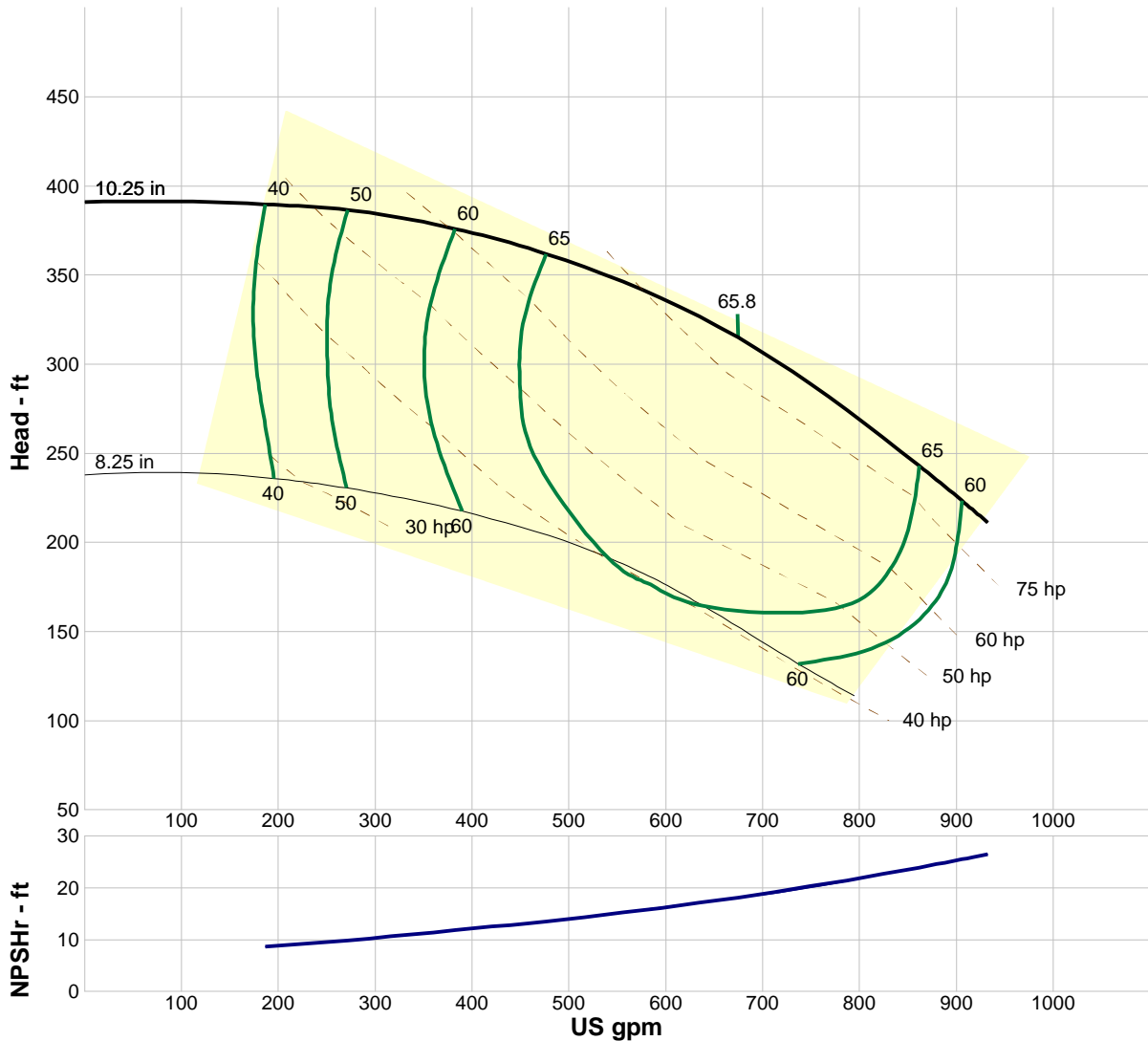
Flow: 674 US gpm
 Head: 315 ft
 Eff: 65.8%
 Power: 81.5 hp
 NPSHr: 18.2 ft

---- Design Curve ----

Shutoff head: 391 ft
 Shutoff dP: 169 psi
 Min flow: ---
 BEP: 65.8% @ 674 US gpm
 NOL power:
 87.1 hp @ 932 US gpm

-- Max Curve --

Max power:
 87.1 hp @ 932 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
895	3450	228	61.1	84.3	25.2
746	3450	287	65.5	81.4	20.4
597	3450	333	65.5	75.8	16.4
448	3450	366	63.5	65	13.1
298	3450	384	52.4	54.7	10.4