



Company: Systecore Inc.

P-16, P-17

Name: U of M

Date: 07/22/08

Pump:

Model: E4R9A-2
 Type: HVES
 Synch speed: 1800 rpm
 Size: 6x4x9.5
 Specific Speeds:
 Dimensions:
 Speed: 1770 rpm
 Dia: 8.8125 in
 Impeller: D05-89820
 Ns: 2226
 Nss: 6451
 Suction: 6 in
 Discharge: 4 in

Search Criteria:

Flow: 1000 US gpm Head: 60 ft

Fluid:

Water
 SG: 1
 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: 20 hp
 Speed: 1800
 Frame: 256T

Pump Limits:

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

---- Data Point ----

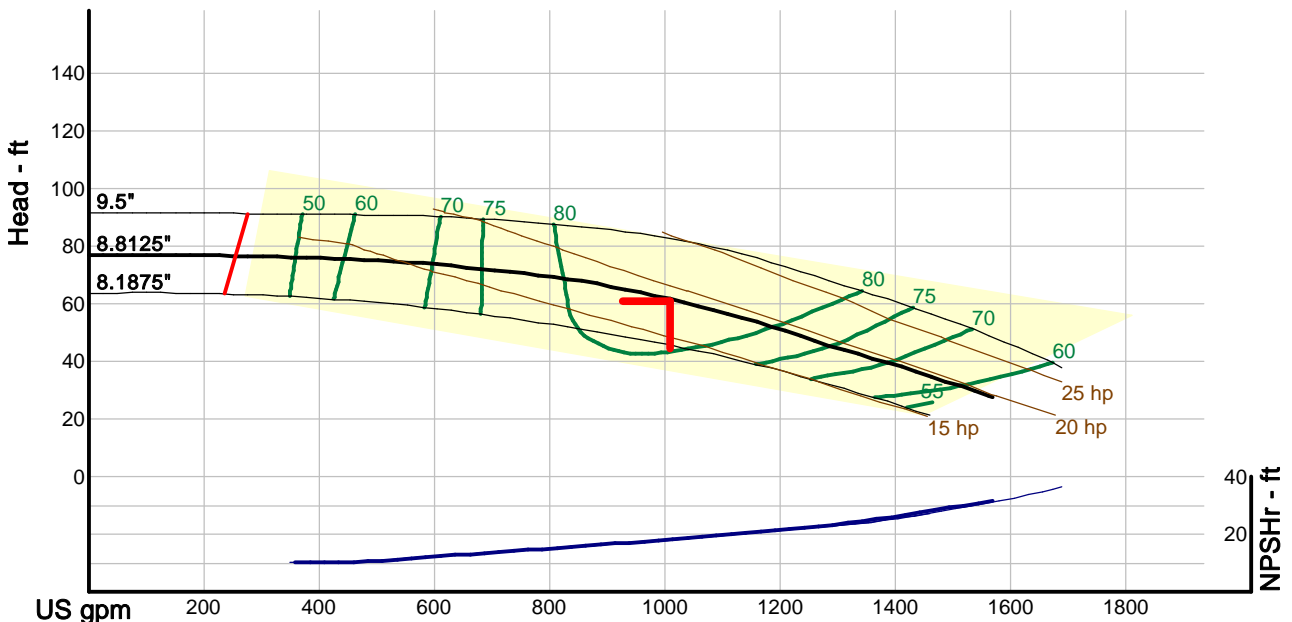
Flow: 1000 US gpm
 Head: 60.8 ft
 Eff: 82.2%
 Power: 18.6 hp
 NPSHr: 18.2 ft

-- Design Curve --

Shutoff Head: 76.1 ft
 Shutoff dP: 32.9 psi
 Min Flow: 253 US gpm
 BEP: 82.4% eff
 @ 1013 US gpm
 NOL Pwr: 19.7 hp
 @ 1557 US gpm

-- Max Curve --

Max Pwr: 27.7 hp
 @ 1521 US gpm



Refer to Working Pressure vs. Temperature chart for maximum rated working pressure. All data are subject to change. Consult factory for certified data.

Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Pump %eff	Power hp	NPSHr ft
1200	1770	49.8	78.9	19.1	21.6
1000	1770	60.8	82.2	18.6	18.2
800	1770	68.5	79.4	17.4	15.2
600	1770	72.8	70.5	15.6	12.4
400	1770	75	55.2	13.7	10.2