Pump Data Sheet - HYDROMATIC

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Date: 4/30/2010

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HYDROMATIC®

Pump:

Size: 30MP/MPSF

Type: Self-Primer3
Synch speed: 1800 rpm

Speed: 1750 rpm
Dia: 7.75 in

Curve: 30MP1750

Impeller:

Specific Speeds:

Ns: ---
Nss: ---

Dimensions:

Suction: ---
Discharge: 3 in

Pump Limits:

Temperature: 140 °F
Pressure: 125 psi g
Sphere size: 2.5 in

Power: ---
Eye area: ---

Search Criteria:

Flow: ---

Head: ---

Fluid:

Water
SG: 1
Viscosity: 1.105 cP

Temperature: 60 °F
Vapor pressure: 0.2563 psi a
Atm pressure: 14.7 psi a

NPSHa: ---

Motor:

Standard: NEMA
Enclosure: TEFC

Size: 7.5 hp
Speed: 1800
Frame: 213T

Sizing criteria: Max Power on Design Curve

---- Data Point ----

Flow:	296 US gpm
Head:	42 ft
Eff:	49%
Power:	6.41 hp
NPSHr:	21 ft

---- Design Curve ----

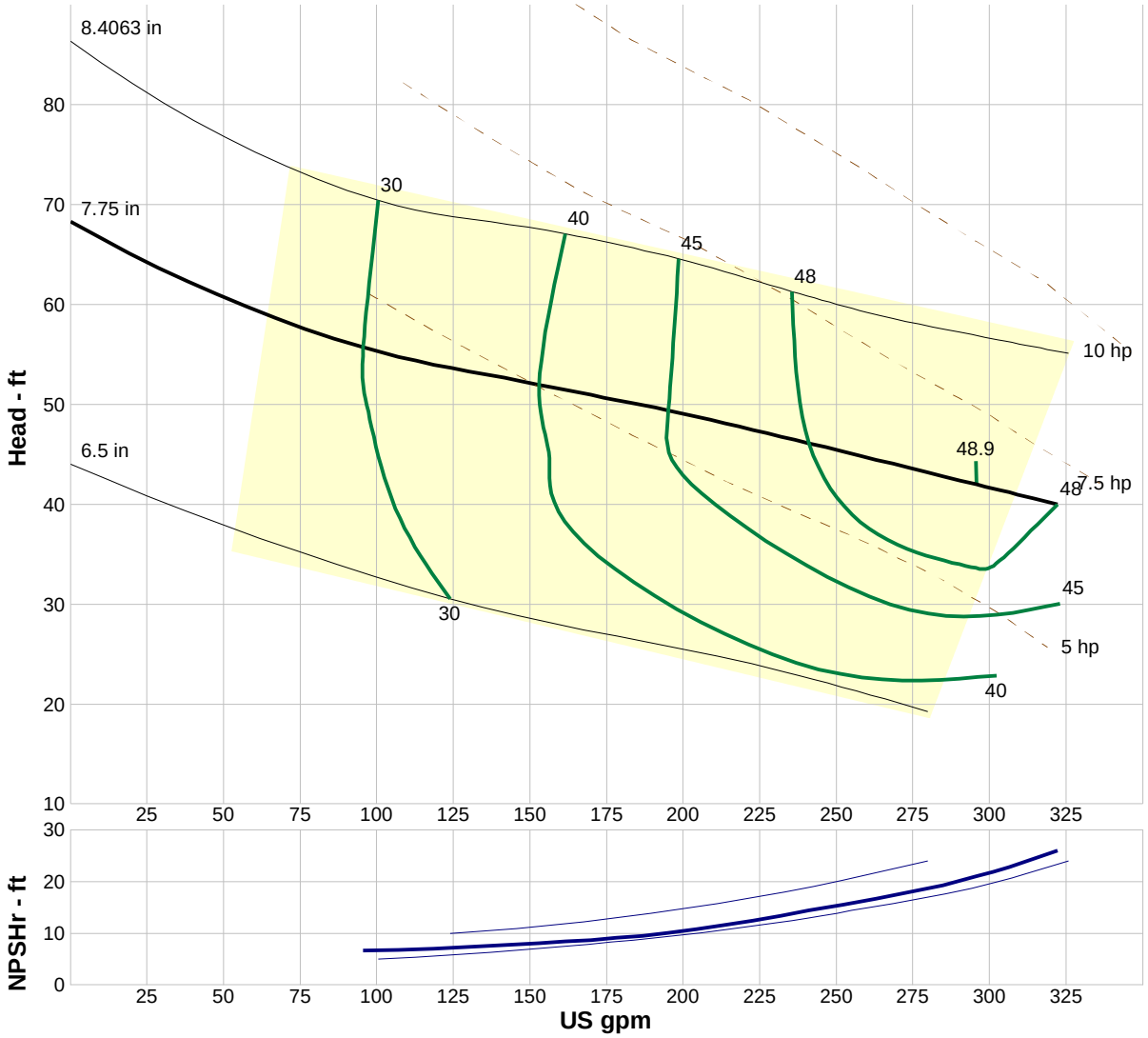
Shutoff head:	68.3 ft
Shutoff dP:	29.5 psi
Min flow:	---

BEP: 49% @ 296 US gpm

NOL power:
6.78 hp @ 322 US gpm

-- Max Curve --

Max power:
9.23 hp @ 326 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
310	1750	40.9	48	6.61	23.7
258	1750	44.8	48	6.02	16.5
206	1750	48.6	46	5.51	11.1
155	1750	51.8	40	5.04	8.2
103	1750	55.2	31	4.55	6.83