Pump Performance Datasheet

Project name / location	:	Tag Number	: CHWP-1,2
Consulting engineer	:	Service	: Primary CHW
Customer	:	PACO Model	: 6015-3/4 KP
Customer ref. / PO	:	Quantity	: 2
Quote number	:	Quoted By (Sales Office)	:
Date last saved	: 05/23/2014 4:53 PM	Quoted By (Sales Engineer)	:

Operating Conditions

Flow, rated	: 122.0 l/s
Differential head / pressure, rated (requested)	: 333.0 kPa
Differential head / pressure, rated (actual)	: 333.0 kPa
Suction pressure, rated / max	: 140.0 / 140.0 psi.g
NPSH available, rated	: Ample
Frequency	: 50 Hz

Performance

Speed, rated	: 1,483 rpm
Impeller diameter, rated	: 12.96 in
Impeller diameter, maximum	: 15.00 in
Impeller diameter, minimum	: 9.00 in
Efficiency	: 85.89 %
NPSH required / margin required	: 10.15 / 0.00 ft
-	: -
MCSF	: 43.59 l/s
Head, maximum, rated diameter	: 390.2 kPa
Head rise to shutoff	: 15.55 %
Flow, best eff. point (BEP)	: 124.1 l/s
Flow ratio (rated / BEP)	: 98.30 %
Diameter ratio (rated / max)	: 86.40 %
Head ratio (rated dia / max dia)	: 70.40 %
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00
Selection status	: Acceptable

Liquid

Liquid type	: Water
Additional liquid description	:
Solids diameter, max	: 0.00 in
Solids concentration, by volume	: 0.00 %
Temperature, max	: 68.00 deg F
Fluid density, rated / max	: 1.000 / 1.000 SG
Viscosity, rated	: 1.00 cP
Vapor pressure, rated	: 0.34 psi.a

Material

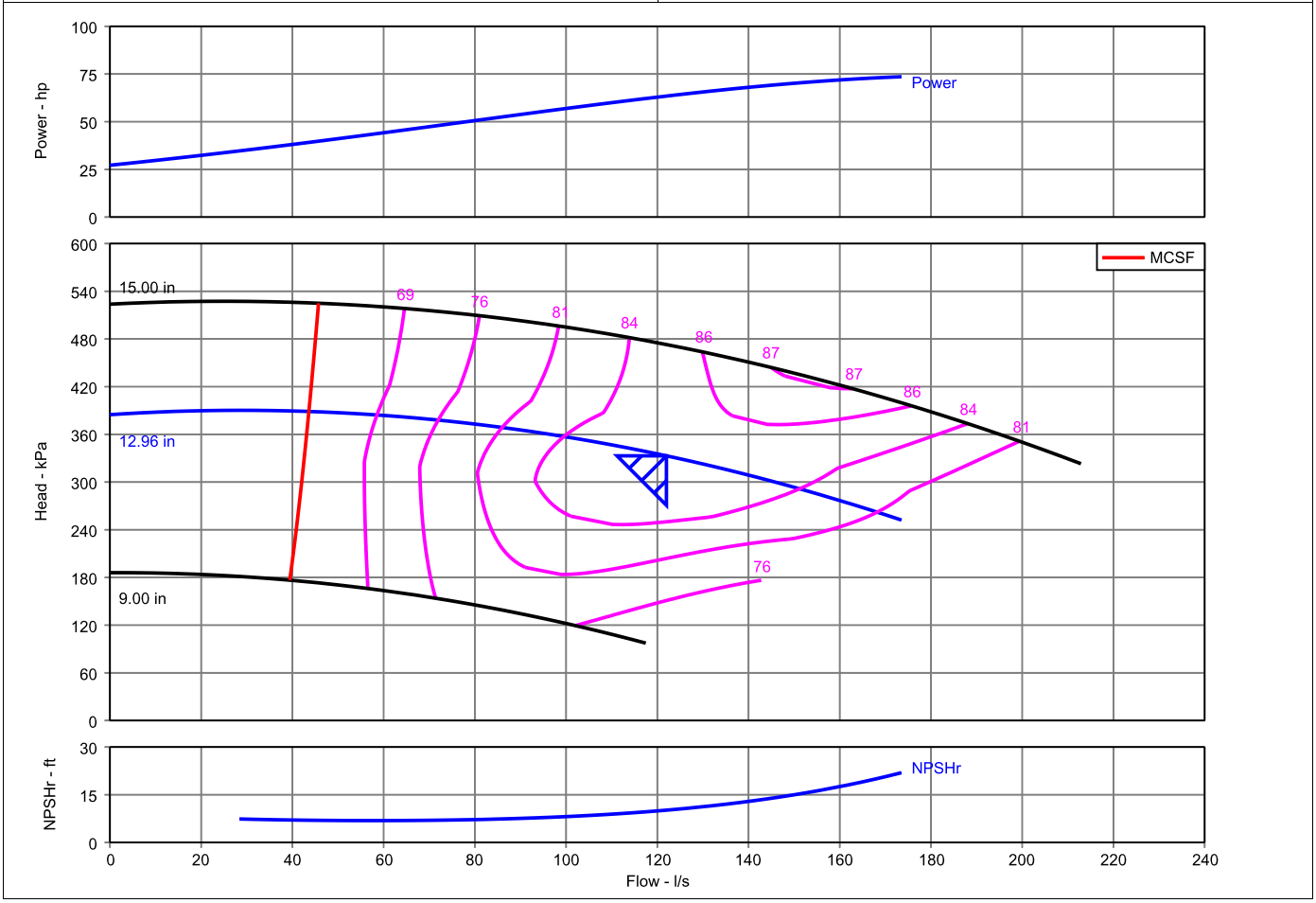
Material selected	: Cast Iron

Pressure Data

Maximum working pressure	: 196.6 psi.g
Maximum allowable working pressure	: 250.0 psi.g
Maximum allowable suction pressure	: 202.0 psi.g
Hydrostatic test pressure	: 375.0 psi.g

Driver & Power Data

Motor sizing specification	: Non-overloading (max power)
Margin over specification	: 0.00 %
Service factor	: 1.15
Power, hydraulic	: 54.48 hp
Based on duty point (rated power)	: 63.43 hp
Non-overloading (max power)	: 73.57 hp
Nameplate motor rating	: 75.00 hp / 55.93 kW



Construction Datasheet

Project name / location	: -	Tag Number	: CHWP-1,2
Consulting engineer	: -	Service	: Primary CHW
Customer	: -	PACO Model	: 6015-3/4 KP
Customer ref. / PO	: -	Quantity	: 2
Quote number	: -	Quoted By (Sales Office)	:
Date last saved	: 05/23/2014 4:53 PM	Quoted By (Sales Engineer)	:

Construction

Nozzle	Size (in.)	Nozzle Configuration	Pos'n
Suction	8	125# ANSI	Side
Discharge	6	250# ANSI	Side

Orientation / Configuration	: Horizontal
Rotation	: Clockwise
Wear Ring Configuration	: Single - Case
Discharge Elbow Size	: -
Subplate	: -
Sump Depth (feet)	: -
Bearing Frame	: -
Bearing Frame Foot	: -
Bearing Type (Radial/Thrust)	: Ball/Ball
Bearing Lubrication	: Regreasable
Thrust Bearing	: -
Intermediate Bearing	: -
Lower Bearing	: -
Bearing Housing Accessories	: -
PACO Construction code	: 29-60153-A57001-12N7

Baseplate, Coupling and Guard

Baseplate	: Welded Steel Fabrication
Drip Pan	: No drip pan
Coupling	: Woods Sureflex Type S (elastomeric) 11S
Guard	: OSHA Approved

Seal & Packing Construction

Sealing Method	: Single Seal, Type 1
Seal Material	: Buna Carbon Ceramic SS-Spring and Brass Hardware
Packing Gland	: -
Lantern Ring	: -
Recirculation Lines	: None

Weights (Approx.)

Pump	: 973.0 lb
Baseplate	: 0.00 lb
Driver	: 600.0 lb
Estimated Shipping gross weight	: 1,573.0 lb

Motor Information

Manufacturer	:
Frame Size	:
Power	: 75.00 hp
RPM	: 1,500 rpm
Enclosure	:
Operating Power Supply	: //50
Efficiency	:
Service factor	:
Motor Application	:
Motor Options/Accessories	: -
Cord Length (feet)	: -

Materials

Case	: Cast Iron, ASTM A48 - Class 35
Motor Bracket	: -
Impeller	: Silicon Bronze, ASTM B584 C87600 B21
Impeller Cap Screw and Washer	: -
Impeller Key	: Steel, Cold Drawn C1018
Case wear ring	: Tin Bronze, ASTM B584-90500 (B18)
Impeller wear ring	: Not Applicable
Pump Shaft	: Stressproof Steel, AISI 1144
Sleeve	: Bronze, III932, C89835
Line Shaft	: -
Column	: -
Discharge Pipe	: -
Discharge Elbow	: -
Suction Elbow	: -
Subplate	: -
Hardware	: Steel, Grade 8
O Rings	: Buna N
Pump Coatings	: Standard Manufacturers Paint