



Centrifugal Vertical Turbine Fire Pump Bowl Performance Data



Customer: XYLEM - AC PUMP
PO #: F4117925

Acceptance Standard: NFPA20 (1U)
Serial Number: 16-0076732-01-01/QKY936

CO #: 4341856
Test Date: 11/02/16

Performance Test Conditions

Pump #:	1	Specific Gravity:	1.00	Required Speed (rpm):	1475
Pump Type:	VIT	Viscosity (ssu)	31.5	Required Capacity (gpm):	750
Bowl Model:	FP12CHC-750	Water Temp. (°F)	72.0	Required Bowl TDH (psi):	135
Stages:	6	Test Driver:	200hp 4-pole		
Impeller Material:	1398	Driver S/N:	J01-BF82A-M	Pressure Trans.:	300psig (Q4021)
Bowl Material:	6911	Job Driver Power (hp):	75	Torque Meter:	6 K in-lb (Q3024)
1st Imp. Dia. (in):	8.19	1st Imp. Qty.:	6	Flow Meter:	8 in (Q3012)
2nd Imp. Dia. (in):		2nd Imp. Qty.:		Tested By:	Alex Davila

Readings During Test

POINTS	1	2	3	4	5	6	7
Disch. Pressure (psi)	153.2	153.3	149.9	146.5	138.7	105.2	80.6
Discharge Head (ft)	353.9	354.1	346.3	338.4	320.4	243.0	186.2
Gauge Elevation (ft)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Velocity Head (ft)	0.00	0.02	0.09	0.21	0.37	0.83	1.10
Friction Head (ft)	0.00	0.01	0.02	0.04	0.07	0.15	0.19
Input Voltage (V)*	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Input Current (amp)*	73.0	81.0	88.0	100.0	113.0	130.0	135.0
Input Elec. Power (kW)*	0.0	0.0	0.0	0.0	0.0	0.0	0.0

* electrical power readings are for reference only.

Data Recorded at Running Speed

Speed (rpm)	1495	1495	1494	1490	1489	1490	1490
Capacity (gpm)	0	190	380	568	757	1136	1313
Bowl TDH (psi)	155.4	155.5	152.1	148.8	141.1	107.8	83.3
Bowl Shaft Power (hp)	37.0	43.3	50.2	59.8	70.1	82.6	85.8
Bowl Efficiency (%)	0.0	39.8	67.2	82.4	88.9	86.5	74.4

Data Converted to Customers Speed

Speed (rpm)	1475	1475	1475	1475	1475	1475	1475
Capacity (gpm)	0	188	375	563	750	1125	1300
Bowl TDH (psi)	151.2	151.3	148.3	145.8	138.4	105.6	81.7
Bowl Shaft Power (hp)	35.5	41.6	48.3	58.0	68.1	80.2	83.2
Bowl Efficiency (%)	0.0	39.8	67.2	82.4	88.9	86.5	74.4

NAMEPLATE DATA

Size: FP12CHC-750	Type: VIT
Serial Number: 16-0076732-01-01/QKY936	
G.P.M.: 750	at Ft.hd: 311.9
R.P.M.: 1475	Imp. Dia.: 8.19 in
Max. Net Pressure Developed:	151.2 P.S.I.
Net Pressure at 150% Capacity:	105.6 P.S.I.
Max. B.H.P.:	83.2 H.P.
Min. Submergence:	34.0 IN.

Certified Test Results

By: 
Title: ENGINEER
Date: November 2, 2016

Witness

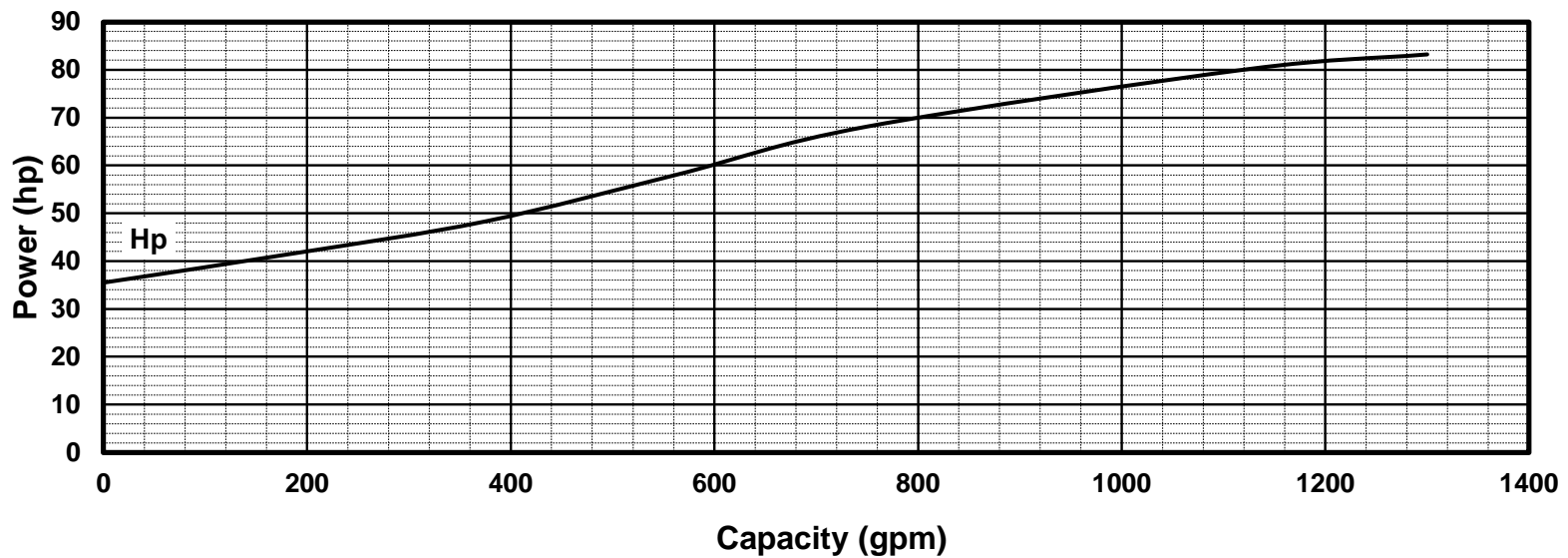
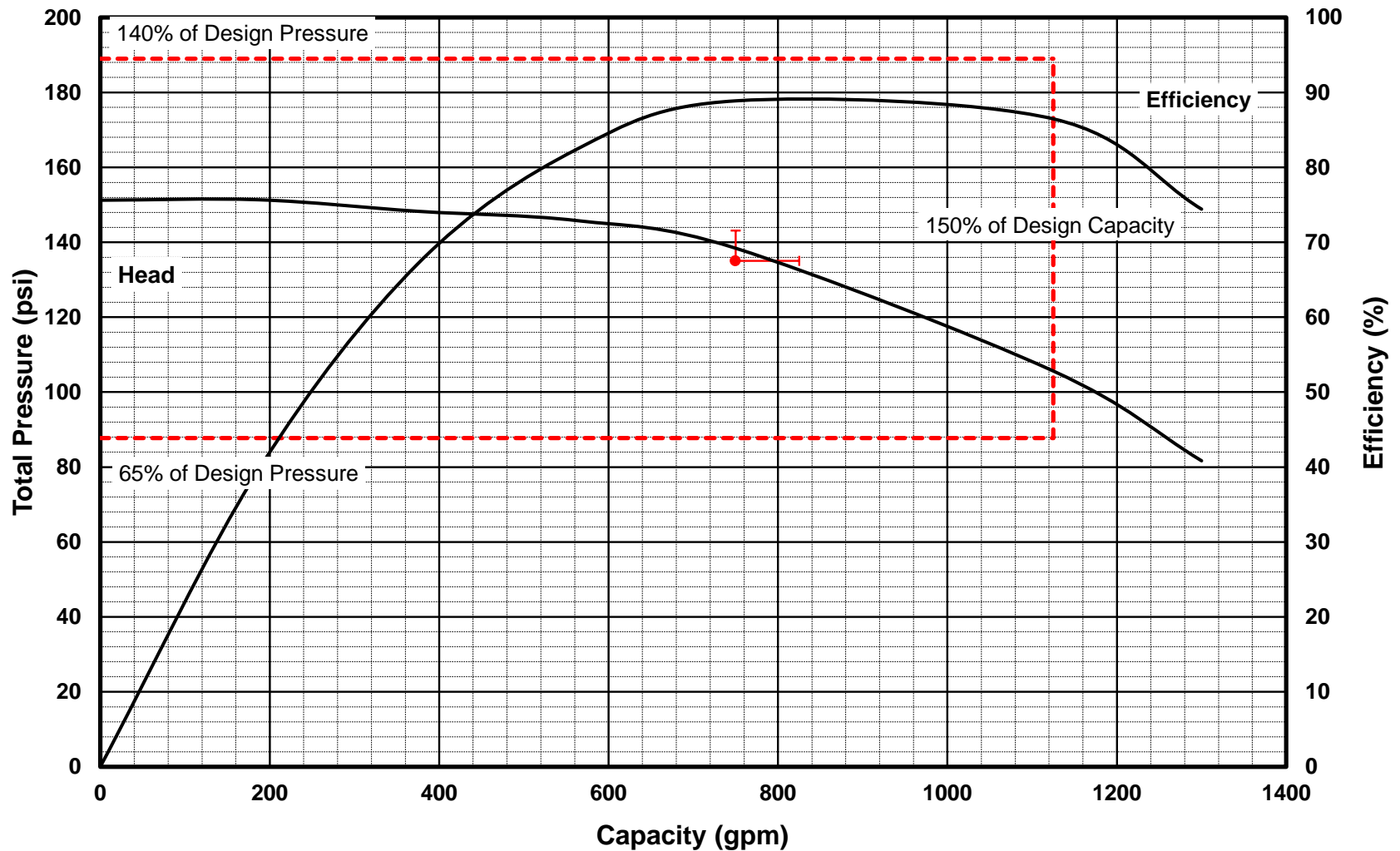
By: _____
Date: _____

Centrifugal Vertical Turbine Fire Pump Bowl Performance Curve

Customer: XYLEM - AC PUMP
PO #: F4117925

Acceptance Standard: NFPA20 (1U)
Project: 16-0076732-01-01/QKY936

CO #: 4341856
Test Date: 11/2/2016



Pump #: 1
Bowl Model: FP12CHC-750
Stages: 6
1st Imp. Dia.: 8.19
2nd Imp. Dia.: 0.00

Required Speed (rpm): 1475
Required Capacity (gpm): 750
Required Bowl TDH (psi): 135

Certified Test Results
By: Chris Huffer
Title: ENGINEER
Date: 11/2/2016

Witness
By: _____
Date: _____



Centrifugal Vertical Turbine Fire Pump Hydrostatic Report



Customer: XYLEM - AC PUMP
PO #: F4117925

Acceptance Standard: NFPA20 (1U)
PROJECT: 16-0076732-01-01/QKY936

SO: 4341856
DATE: 11/2/2016

Hydrostatic Test Conditions

Pump #: 1
Pump Type: VIT
Bowl Model: FP12CHC-750
Stages: 6

Specific Gravity: 1.00
Shut-Off Head (psi): 151.2
Pressure Gauge: 2000psig (T18008)

Required Speed (rpm): 1475
Required Capacity (gpm): 750
Required Bowl TDH (psi): 135
Tested By: Alex Davila

Goulds Water Technology Texas Turbine Operations a division of Xylem Inc. certifies that the parts or assemblies listed below have been hydrostatically tested to the pressures and length of time indicated.

Readings During Test

Description	PART No	Material	Quantity	Pressure	Time
Top Bowl:	C03085B01	6911	1	250.0 psi	5.0 Minutes
Intermediate Bowl:	C03085B03	6911	5	250.0 psi	5.0 Minutes
Discharge Head:	C04427B	1003	1	250.0 psi	5.0 Minutes

Certified Test Results
By: Chris Huffer
Title: ENGINEER
Date: November 2, 2016

Witness
By: _____
Date: _____