



Customer: CanDyne Pump Services Inc.

Capacity(m³/h): 109.9

Project: TBA

Head(m): 160

Service: TBA

NPSHr(m): 3.7

Pump Model: SCP100-80-315

Item no.: 4132

Liquid: Prod. Water

Efficiency(%): 59

Density(kg/m³): 1000

Viscosity: 1.31 cp

Power(KW): 81.2

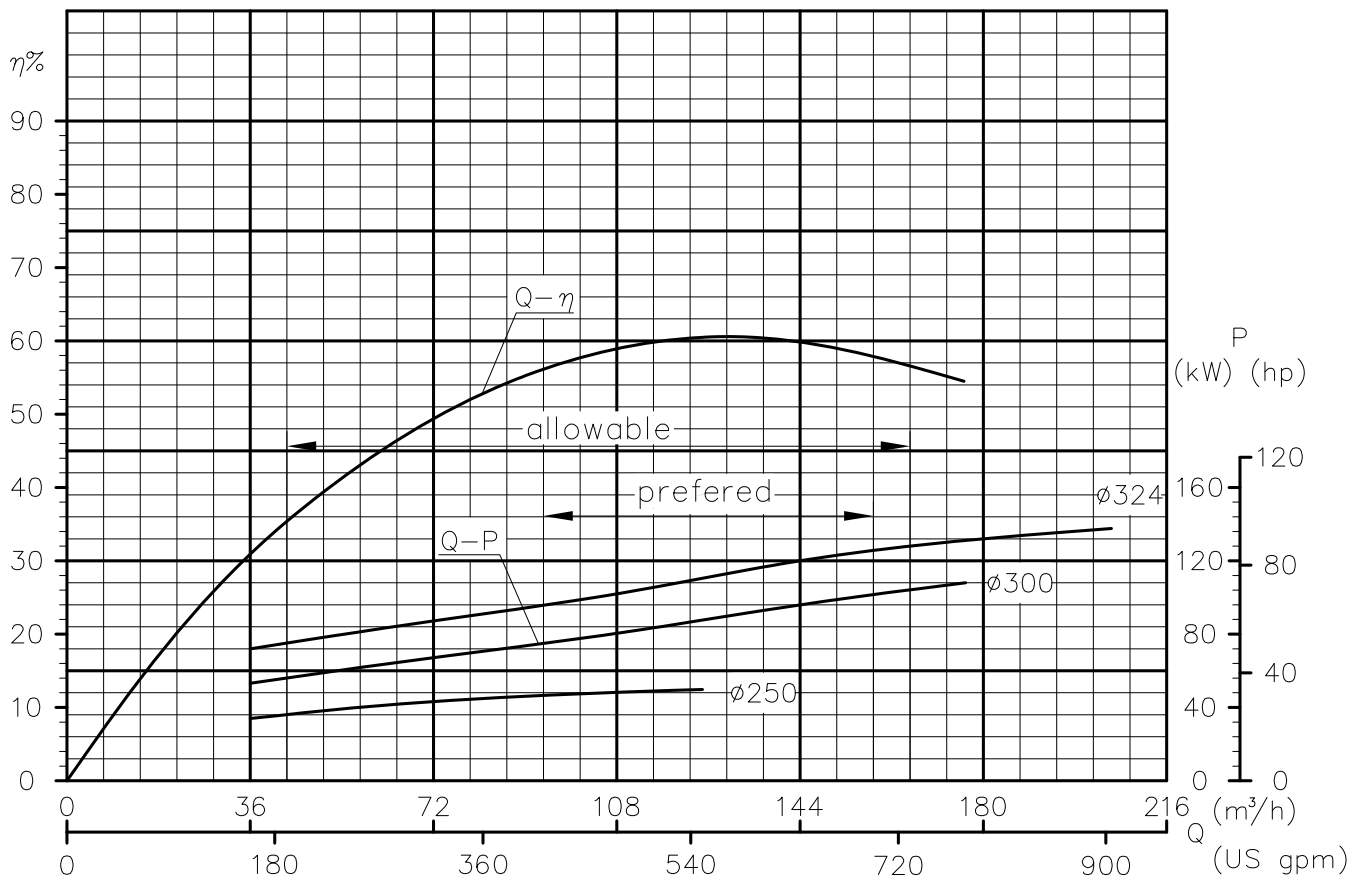
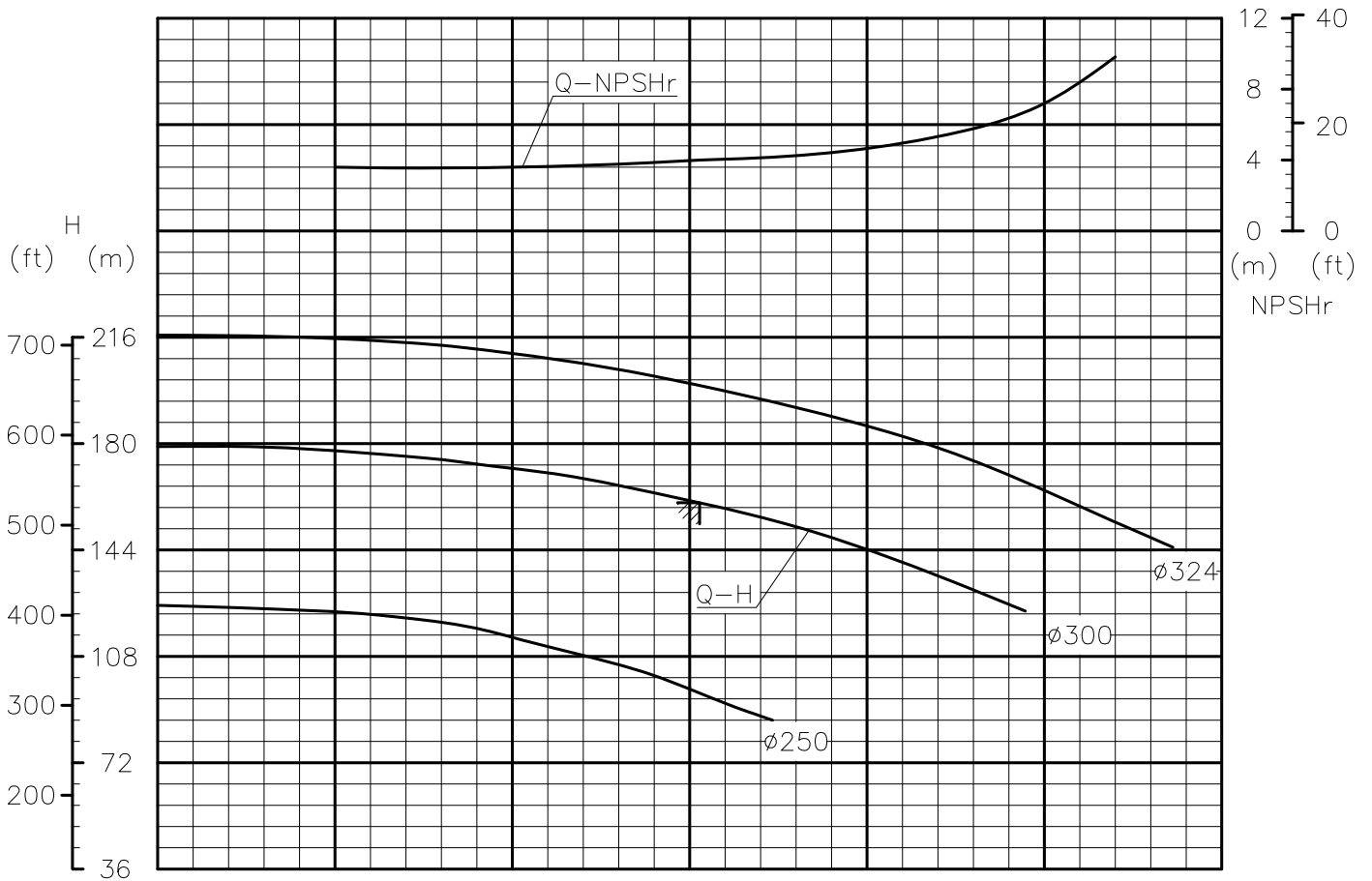
API610 OH2

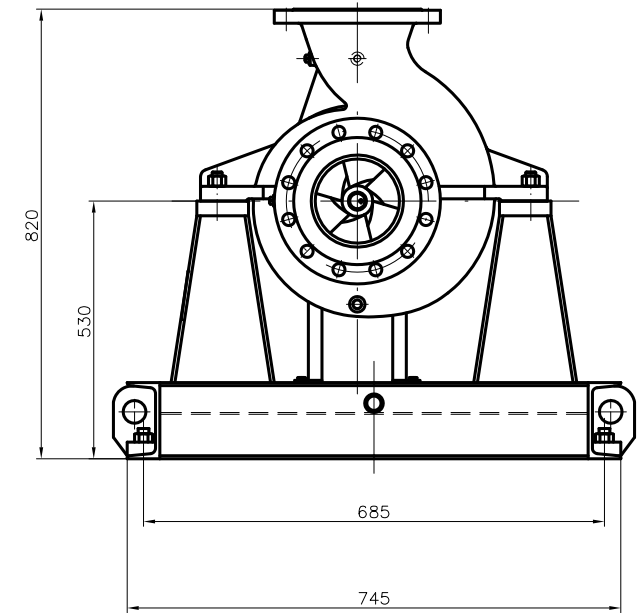
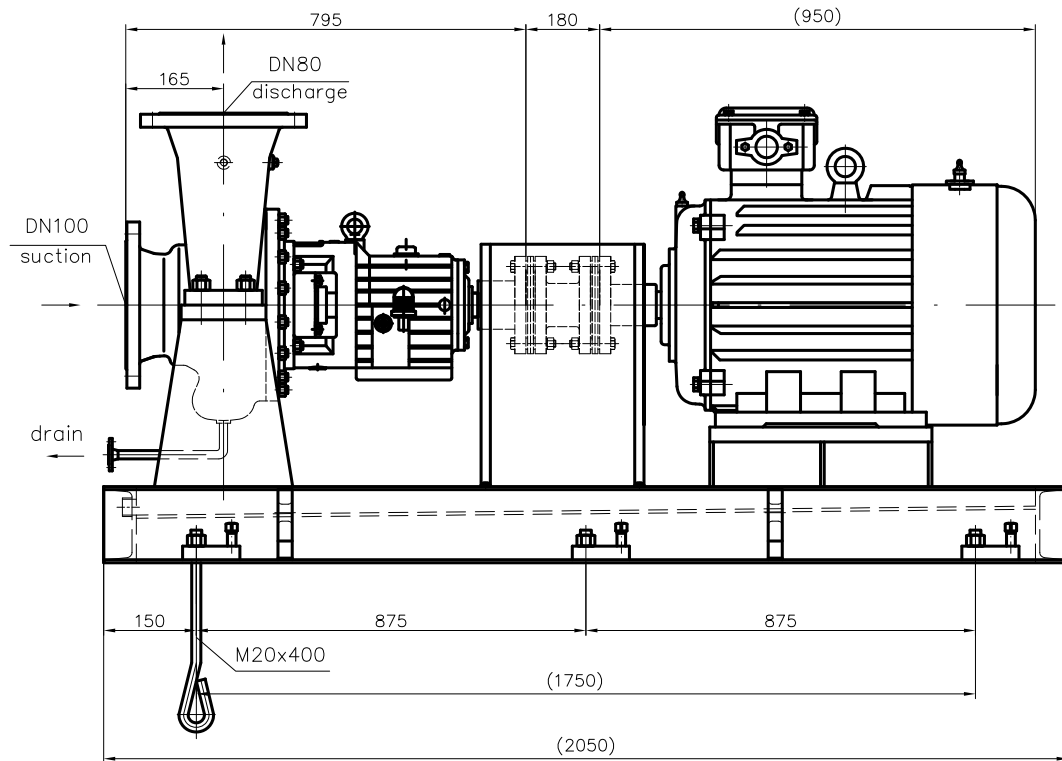
Speed: 3550r/min

Temp.: 104 F

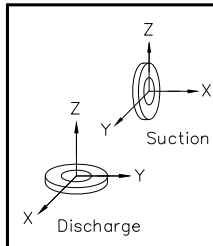
Other: N/A

Impeller Dia(mm): 300





	Suction	Discharge	Unit
FX	1780	1070	N
FY	1420	890	
FZ	1160	1330	
FR	2560	1930	
MX	1330	950	N.m
MY	680	470	
MZ	1000	720	
MR	1800	1280	



SPECIFICATION:
PUMP(Kg): 230

Model: SCP100-80-315			Item no.: 4132			Outline Dimensions and Installation		
Prepare:	Xu Zhang	Check:	Zhongtian Zhang	Mark:		Weight		Scale
Review:	Dawei Jiang	Approve:	HY Zhang	S				
Standard:	API 610	Date:	2014.07.24	Page:	1/1			





方大泵业
FONDA PUMP

Centrifugal Pump Data Sheet

JOB NO. **FD14J61558** ITEM No(s). **4132**
 REQ./ SPEC NO. **TBA** / **TBA**
 PURCH. ORDER NO. **N/A** DATE **2014.07.24**
 ENQUIRY NO. **FD14E23670** BY **HY Zhang**

Centrifugal pump, process data sheet — SI units

Manufacturer: Fonda Pump

1 APPLICABLE TO: <input checked="" type="radio"/> PROPOSAL <input type="radio"/> PURCHASE <input type="radio"/> AS BUILT																								
2 FOR CanDyne Pump Services Inc. UNIT 1																								
3 SITE TBA					SREVICE Produced Water																			
4 NOTES : INFORMATION BELOW TO BE COMPLETED: <input type="radio"/> BY PURCHASER <input checked="" type="radio"/> BY MANUFACTURER <input type="radio"/> BY MANUFACTURER OR PURCHASER																								
<input checked="" type="radio"/> DATA SHEETS					REVISIONS																			
	ITEM NO.	ATTACHED	ITEM NO.	ATTACHED	ITEM NO.	ATTACHED	NO.	DATE	BY															
7	PUMP	<input checked="" type="radio"/>		<input type="radio"/>		<input type="radio"/>	1																	
8	MOTOR	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	2																	
9	GEAR	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	3																	
10	TURBINE	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	4																	
11 APPLICABLE OVERLAY STANDARD(S) : API 610,TENTH EDITION,OCTOBER 2004																								
<input checked="" type="radio"/> OPERATING CONDITIONS (5.1.3)					<input checked="" type="radio"/> LIQUID (5.1.3)																			
13 FLOW, NORMAL - (m ³ /h) RATED 109.9 (m ³ /h)					LIQUID TYPE OR NAME Produced Water																			
14 OTHER _____					<input type="radio"/> Toxic <input type="radio"/> FLAMMABLE <input type="radio"/> (5.1.5)																			
15 SUCTION PRESSURE MAX /RATED _____ (KPag)					<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>MIN.</th> <th>NORMAL</th> <th>MAX.</th> </tr> </thead> <tbody> <tr> <td></td> <td>104.0</td> <td></td> </tr> <tr> <td></td> <td>1.07</td> <td></td> </tr> <tr> <td></td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>1.310</td> <td></td> </tr> </tbody> </table>					MIN.	NORMAL	MAX.		104.0			1.07			1			1.310	
MIN.	NORMAL	MAX.																						
	104.0																							
	1.07																							
	1																							
	1.310																							
16 DISCHARGE PRESSURE _____ (KPag)																								
17 DIFFERENTIAL PRESSURE _____ (KPag)																								
18 DIFF. HEAD 160 (m) NPSHA _____ (m)																								
19 PROCESS VARIATIONS (5.1.4) _____					PUMPING TEMP (°F) _____																			
20 STARTING CONDITIONS (5.1.4) _____					VAPOUR PRESS . (PSIa) _____																			
21 SERVICE: <input type="radio"/> CONT <input type="radio"/> INTERMITTENT (STARTS/DAY) _____					RELATIVE DENSITY (SG): _____																			
22 <input type="radio"/> PARALLEL OPERATION REQ'D (5.1.13)					VISCOSITY (cP) _____																			
23 <input type="radio"/> SITE DATA (5.1.3)					SPECIFIC HEAT, C _p _____ (kj/kg .k)																			
24 LOCATION: (5.1.30)					<input type="radio"/> CHLORIDE CONCENTRATION (6.5.2.4) _____ (mg/kg)																			
25 <input type="radio"/> INDOOR <input type="radio"/> HEATED <input type="radio"/> OUTDOOR <input type="radio"/> UNHEATED					<input type="radio"/> H ₂ S CONCENTRATION _____ (mol fraction) WET (5.12.1.12c)																			
26 <input type="radio"/> ELECTRICAL AREA CLASSIFICATION (5.1.24 / 6.1.4)					<input type="radio"/> CORROSIVE / EROSIIVE AGENT (5.12.1.9)																			
27 CL _____ GR _____ DIV _____					<input checked="" type="radio"/> ANNEX H CLASS (5.12.1.1) S-6																			
28 <input type="radio"/> WINTERIZATION REQ'D <input type="radio"/> TROPICALIZATION REQ'D					<input type="radio"/> MIN DESIGN METAL TEMP (5.12.4.1) _____ (°C)																			
29 SITE DATA (5.1.30)					<input type="radio"/> REDUCED HARDNESS MATERIALS REQ'D (5.12.1.12)																			
30 <input type="radio"/> ALTITUDE _____ (m) BAROMETER _____ (MPa)					<input checked="" type="radio"/> BARREL/CASE Carbon Steel IMPELLER 12%CHR																			
31 <input type="radio"/> RANGE OF AMBIENT TEMPS: MIN./MAX. _____ / _____ (°C)					<input checked="" type="radio"/> CASE/IMPELLER WEAR RINGS 12%CHR Hardened																			
32 <input type="radio"/> RELATIVE HUMIDITY: MIN./MAX. _____ / _____ (%)					<input checked="" type="radio"/> SHAFT AISI 4140																			
33 UNUSUAL CONDITIONS: (5.1.30) <input type="radio"/> DUST <input type="radio"/> FUMES					<input type="checkbox"/> DIFFUSERS																			
34 <input type="radio"/> OTHER _____					<input checked="" type="radio"/> PERFORMANCE																			
35					PROPOSAL CURVE NO. SCP100-80-315 <input checked="" type="radio"/> 3550 (r/min)																			
36					<input checked="" type="radio"/> IMPELLER DIA RATED 300 MAX. 324 MIN. 250 (mm)																			
37					<input checked="" type="radio"/> IMPELLER TYPE CLOSED																			
38 <input type="radio"/> DRIVER TYPE					<input checked="" type="radio"/> RATED POWER 81.2 (kw) EFFICIENCY 59 (%)																			
39 <input type="radio"/> INDUCTION MOTOR <input type="radio"/> STEAM TURBINE <input type="radio"/> GEAR					<input checked="" type="radio"/> MINIMUM CONTINUOUS FLOW : 43.2 (m ³ /h)																			
40 <input type="radio"/> OTHER _____					THERMAL _____ (m ³ /h) STABLE _____ (m ³ /h)																			
41 <input type="radio"/> MOTOR DRIVER (6.1.1 / 6.1.4)					<input checked="" type="radio"/> PREFERRED OPER. REGION 93.6 TO 158.4 (m ³ /h)																			
42 <input type="radio"/> MANUFACTURER _____					<input checked="" type="radio"/> ALLOWABLE OPER. REGION 43.2 TO 165.6 (m ³ /h)																			
43 <input checked="" type="checkbox"/> 110 (kw) <input checked="" type="checkbox"/> 3550 (r/min)					<input checked="" type="radio"/> MAX. HEAD @ RATED IMPELLER 180 (m)																			
44 <input type="checkbox"/> FRAME <input type="checkbox"/> ENCLOSURE _____					<input checked="" type="radio"/> MAX. POWER @ RATED IMPELLER 107 (kw)																			
45 <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/> VERTICAL <input type="checkbox"/> SERVICE FACTOR _____					<input checked="" type="radio"/> NPSHR AT RATED FLOW 3.7 (m) (5.1.10)																			
46 <input checked="" type="checkbox"/> VOLTS / PHASE / HERTZ _____ / _____ / _____					<input type="checkbox"/> MAX SUCTION SPECIFIC SPEED : _____ (5.1.11)																			
47 <input type="radio"/> TYPE _____					<input type="checkbox"/> MAX . SOUND PRESS LEVEL REQ'D _____ (dBA) (5.1.16)																			
48 <input type="radio"/> MINIMUM STARTING VOLTAGE (6.1.5) _____					<input type="checkbox"/> EST MAX. SOUND PRESS LEVEL _____ (dBA) (5.1.16)																			
49 <input checked="" type="checkbox"/> INSULATION <input checked="" type="checkbox"/> TEMP. RISE _____					<input type="checkbox"/> EST MAX. SOUND POWER LEVEL _____ (dBA) (5.1.16)																			
50 <input type="checkbox"/> FULL LOAD AMPS _____					<input type="radio"/> UTILITY CONDITIONS (5.1.3)																			
51 <input type="checkbox"/> LOCKED ROTOR AMPS _____					ELECTRICITY																			
52 <input type="checkbox"/> STARTING METHOD _____					VOLTAGE																			
53 <input type="checkbox"/> LUBE _____					PHASE																			
54 BEARINGS (TYPE / NUMBER) :					HERTZ																			
55 <input type="checkbox"/> RADIAL _____ / _____					DRIVERS																			
56 <input type="checkbox"/> THRUST _____ / _____					HEATING																			
57 <input type="checkbox"/> VERTICAL THRUST CAPACITY					SYSTEM VOLTAGE DIP <input type="radio"/> 80% <input type="radio"/> OTHER (6.1.5)																			
58 UP _____ (N) DOWN _____ (N)					STEAM																			
59					MAX. PRESS. MAX. TEMP MIN. PRESS. MIN. TEMP																			
					DRIVERS																			
					HEATING																			
					COOLING WATER: (5.1.19) SOURCE _____																			
					SUPPLY TEMP. _____ (°C) MAX. RETURN TEMP. _____ (°C)																			
					NORM. PRESS. _____ (MPa) DESIGN PRESS. _____ (MPa)																			
					MIN. RET. PRESS. _____ (MPa) MAX. ALLOW. D.P. _____ (MPa)																			
					CHLORIDE CONCENTRATION : _____ (mg/kg)																			



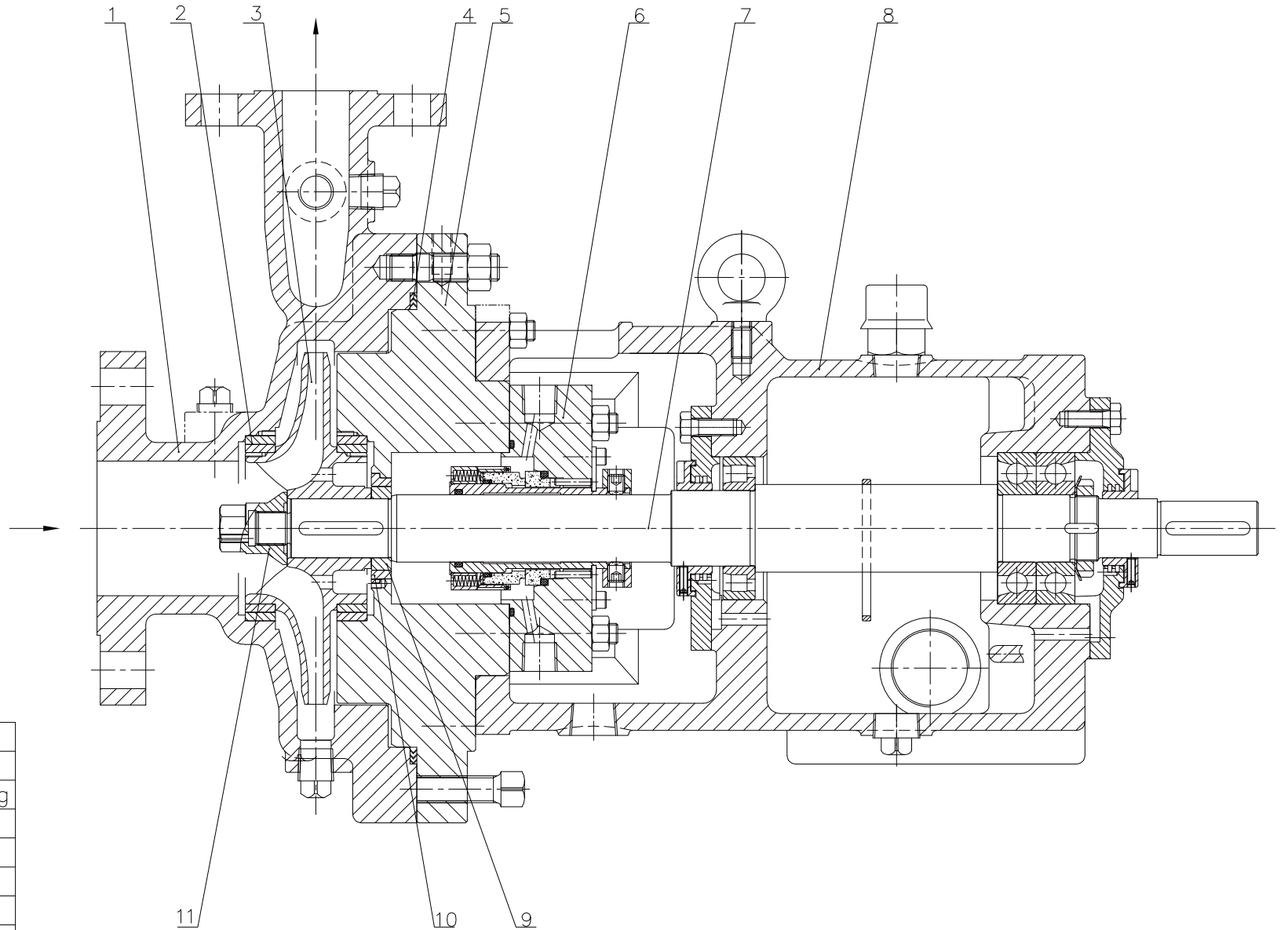
方大泵业
FONDA PUMP

Centrifugal Pump Data Sheet

JOB NO. FD14J61558 ITEM No(s). 4132
 REQ./ SPEC NO. TBA / TBA
 PURCH. ORDER NO. N/A DATE 2014.07.24
 ENQUIRY NO. FD14E23670 BY HY Zhang

Centrifugal pump data sheet — Overhung (Type OH) — SI units

CONSTRUCTION	SURFACE PREPARATION AND PAINT																																
<p>1 ROTATION : (VIEWED FROM COUPLING END) <input checked="" type="checkbox"/> CW <input type="checkbox"/> CCW</p> <p>2 PUMP TYPE : (4.1)</p> <p>3 <input checked="" type="checkbox"/> OH2 <input type="checkbox"/> OH3 <input type="checkbox"/> OH6 <input type="checkbox"/> OTHER _____</p> <p>4 CASING MOUNTING :</p> <p>5 <input checked="" type="checkbox"/> CENTERLINE <input type="checkbox"/> IN-LINE <input type="checkbox"/> OTHER _____</p> <p>6</p> <p>7 CASING TYPE :</p> <p>8 <input type="checkbox"/> SINGLE VOLUTE <input checked="" type="checkbox"/> MULTIPLE VOLUTE <input type="checkbox"/> DIFFUSER</p> <p>9 CASE PRESSURE RATING :</p> <p>10 <input type="checkbox"/> OH6 PUMP SUCTION REGION DESIGNED FOR MAWP (5.3.6)</p> <p>11 <input checked="" type="checkbox"/> MAX. ALLOWABLE WORKING PRESSURE <u>2</u> (MPa)</p> <p>12 @ <u>104</u> (°F)</p> <p>13 <input checked="" type="checkbox"/> HYDRO TEST PRESSURE <u>3</u> (MPa)</p> <p>14 NOZZLE CONNECTIONS : (5.4.2)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SIZE</th> <th>FLANGE RATING</th> <th>FACG</th> <th>POSITION</th> </tr> </thead> <tbody> <tr> <td>18 SUCTION</td> <td>4"</td> <td>150#</td> <td>RF END</td> </tr> <tr> <td>19 DISCHARGE</td> <td>3"</td> <td>150#</td> <td>RF TOP</td> </tr> </tbody> </table> <p>16</p> <p>17 PRESSURE CASING AUX. CONNECTIONS : (5.4.3)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>SIZE (IN)</th> <th>TYPE</th> </tr> </thead> <tbody> <tr> <td>22 <input checked="" type="checkbox"/> DRAIN</td> <td>1</td> <td>3/4</td> </tr> <tr> <td>23 <input type="checkbox"/> VENT</td> <td></td> <td></td> </tr> <tr> <td>24 <input type="checkbox"/> WARM-UP</td> <td></td> <td></td> </tr> </tbody> </table> <p>25</p> <p>26 <input type="checkbox"/> MACHINED AND STUDDED CONNECTIONS : (5.4.3.8)</p> <p>27 <input type="checkbox"/> CYLINDRICAL THREADS REQUIRED (5.4.3.3)</p> <p>28 ROTOR :</p> <p>29 <input type="checkbox"/> COMPONENT BALANCE TO ISO 1940 G 1.0 (5.9.4.4)</p> <p>30 COUPLINGS : (6.2.2)</p> <p>31 <input checked="" type="checkbox"/> MANUFACTURER _____ <input type="checkbox"/> MODEL _____</p> <p>32 <input type="checkbox"/> RATING (kw per100 r/min) _____</p> <p>33 <input checked="" type="checkbox"/> SPACER LENGTH _____ (mm) <input type="checkbox"/> SERVICE FACT. _____</p> <p>34 <input type="checkbox"/> COUPLING BALANCED TO ISO 1940-1 G 6.3 (6.2.3)</p> <p>35 <input type="checkbox"/> COUPLING WITH PROPRIETARY CLAMPING DEVICE (6.2.11)</p> <p>36 <input type="checkbox"/> COUPLING PER ISO 14691 (6.2.4)</p> <p>37 <input type="checkbox"/> COUPLING PER ISC10441 (6.2.4)</p> <p>38 <input checked="" type="checkbox"/> COUPLING PER API 671 (6.2.4) <input type="checkbox"/> ASME B15.1</p> <p>39 <input checked="" type="checkbox"/> NON SPARK COUPLING GUARD (6.2.14C)</p> <p>40 <input type="checkbox"/> COUPLING GUARD STANDARD PER _____ (6.2.14a)</p> <p>41 BASEPLATES:</p> <p>42 <input type="checkbox"/> API BASEPLATE NUMBER _____ (ANNEX D)</p> <p>43 <input type="checkbox"/> NON-GROUT CONSTRUCTION (6.3.13)</p> <p>44 <input type="checkbox"/> OTHER _____</p> <p>45</p> <p>46 MECHANICAL SEAL</p> <p>47</p> <p>48 Seal Plan: Plan11</p> <p>49 Manufacturer: Colossus Group or equivalent</p> <p>50</p> <p>51</p> <p>52 Notes:</p> <p>53</p> <p>54</p> <p>55</p>	SIZE	FLANGE RATING	FACG	POSITION	18 SUCTION	4"	150#	RF END	19 DISCHARGE	3"	150#	RF TOP	NO.	SIZE (IN)	TYPE	22 <input checked="" type="checkbox"/> DRAIN	1	3/4	23 <input type="checkbox"/> VENT			24 <input type="checkbox"/> WARM-UP			<p><input type="checkbox"/> MANUFACTURER'S STANDARD <input type="checkbox"/> OTHER SEE BELOW</p> <p><input type="checkbox"/> SPECIFICATION NO. _____</p> <p>PUMP :</p> <p><input type="checkbox"/> PRIMER _____</p> <p><input type="checkbox"/> FINISH COAT _____</p> <p>BASEPLATE : (6.3.1.7)</p> <p><input type="checkbox"/> PRIMER _____</p> <p><input type="checkbox"/> FINISH COAT _____</p> <p><input type="checkbox"/> DETAILS OF LIFTING DEVICES (6.3.20) _____</p> <p>SHIPMENT : (7.4.1)</p> <p><input type="checkbox"/> DOMESTIC <input type="checkbox"/> EXPORT <input type="checkbox"/> EXPORT BOXING REQUIRED</p> <p><input type="checkbox"/> OUTDOOR STORAGE MORE THAN 6 MONTHS</p> <p>SPARE ROTOR ASSEMBLY PACKAGED FOR :</p> <p><input type="checkbox"/> HORIZONTAL STORAGE <input type="checkbox"/> VERTICAL STORAGE</p> <p><input type="checkbox"/> TYPE OF SHIPPING PREPARATION _____</p> <tr style="background-color: #00FFFF;"> <th colspan="2" style="text-align: center;">HEATING AND COOLING</th> </tr> <p><input type="checkbox"/> HEATING JACKET REQ'D (5.8.9)</p> <p><input type="checkbox"/> COOLING REQ'D</p> <p><input type="checkbox"/> COOLING WATER PIPING PLAN (6.5.3.1) _____</p> <p>C.W. PIPING:</p> <p><input type="checkbox"/> PIPE <input type="checkbox"/> TUBING: _____ FITTINGS _____</p> <p>C.W. PIPING MATERIALS:</p> <p><input type="checkbox"/> S.STEEL <input type="checkbox"/> C.STEEL <input type="checkbox"/> GALVANIZED</p> <p>COOLING WATER REQUIREMENTS :</p> <p><input type="checkbox"/> BEARING HOUSING _____ (m³/h)</p> <p>HEAT EXCHANGER _____ (m³/h)</p> <p>TOTAL COOLING WATER _____ (m³/h)</p> <p>HEAT MEDIUM : <input type="checkbox"/> STEAM <input type="checkbox"/> OTHER</p> <p>HEATING PIPING : <input type="checkbox"/> TUBING <input type="checkbox"/> PIPE</p> <tr style="background-color: #00FFFF;"> <th colspan="2" style="text-align: center;">BEARING AND LUBRICATION</th> </tr> <p>BEARING (TYPE / NUMBER) (5.10.1) :</p> <p><input checked="" type="checkbox"/> RADIAL <u>ROLLING</u> / <u>1</u></p> <p><input checked="" type="checkbox"/> THRUST <u>ROLLING</u> / <u>2</u></p> <p>LUBRICATION (5.11.3,5.11.4) :</p> <p><input type="checkbox"/> GREASE <input checked="" type="checkbox"/> OIL</p> <p><input type="checkbox"/> PURGE OIL MIST <input type="checkbox"/> PURE OIL MIST</p> <p><input type="checkbox"/> CONSTANT LEVEL OILER PREFERENCE (5.10.2.2) : _____</p> <p><input type="checkbox"/> OIL VISC. ISO GRADE _____</p> <tr style="background-color: #00FFFF;"> <th colspan="2" style="text-align: center;">INSTRUMENTATION</th> </tr> <p><input type="checkbox"/> ACCELEROMETER (6.4.2.1) _____</p> <p><input type="checkbox"/> PROVISION FOR MOUNTING ONLY (5.10.2.11)</p> <p><input type="checkbox"/> FLAT SURFACE REQ'D (5.10.2.12)</p> <p><input type="checkbox"/> TEMP GAUGES (WITH THERMO WELLS) (8.1.3.6) _____</p> <p><input type="checkbox"/> PRESSURE GAUGE TYPE _____</p> <p>REMARKS : _____</p> <tr style="background-color: #00FFFF;"> <th colspan="2" style="text-align: center;">MASSES (Kg)</th> </tr> <p>PUMP <u>230</u></p> <p>BASEPLATE _____</p> <p>DRIVER _____</p> <p>TOTAL _____</p>	HEATING AND COOLING		BEARING AND LUBRICATION		INSTRUMENTATION		MASSES (Kg)	
SIZE	FLANGE RATING	FACG	POSITION																														
18 SUCTION	4"	150#	RF END																														
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HEATING AND COOLING																																	
BEARING AND LUBRICATION																																	
INSTRUMENTATION																																	
MASSES (Kg)																																	



No.	Description
1	Casing
2	Casing Wear Ring
3	Impeller
4	Gasket
5	Casing
6	Mechanical Seal
7	Shaft
8	Bearing Assembly
9	Shaft Sleeve
10	Throttle Bushing
11	Impeller Nut

Model: SCP-000				Sectional drawing	
Prepare: Lu Ji	Check: Zhongtian Zhang	Mark:	Weight	Scale	
Review: Dawei Jiang	Approve:	S			
Standard: API 610	Date:	Page: 1/1			

