

PROCESS CONNECTIONS

Code	Size & Rating	Description	Remark
N1	4" ANSI 600LB-RF	Suction	
N2	2" ANSI 600LB-RF	Discharge	
N3	3/4" ANSI 150LB-RF	External casing drain	Flange With valve
N4	3/4" ANSI 150LB-RF	Pump Barrel Drain	Flange With valve
N5	3/4" ANSI 600LB-RF	Pump Vent	Flange With valve
N6	3/4" ANSI 150LB-RF	Mechanical seal vent	Flange With valve
N7	3/4" ANSI 150LB-RF	Cooling Water Inlet	Blind Flange
N8	3/4" ANSI 150LB-RF	Cooling Water Outlet	Blind Flange
N9	3/4" ANSI 300LB-RF	No Connection	Flange
N10	3/4" ANSI 300LB-RF	PlanCSA Drain	Flange With valve
N11	1/2" Quick Fittings	PlanCSA Filling	Quick Connection
N12	3/4" ANSI 300LB-RF	PlanCSA Cooler Drain	Flange With valve
N13	3/4" ANSI 300LB-RF	PlanCSA Vent	Flange With valve

Center of gravity List			
Item	X	Y	Z
Pump	0	0	-260
Motor	0	0	1918
Units	-13	0	79

MINIMUM CLEARANCE FOR MAINTENANCE AND DISMANTLING (mm)

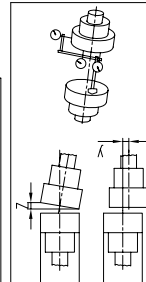
Wear Ring	Second Stage(front)		Second Stage(behind)	
	0.35~0.407		0.35~0.399	
Balance Disc / Balance Sleeve	Axial		0.1~0.15	
	Radial		0.35~0.4	
Shaft Bushing / Shaft Sleeve	0.35~0.4		0.7~0.26	
	Bearing / Cover		0.1~0.2	

Pipeline Description

Code	Description
①	Mechanical Seal Vent
②	External Casing Drain
③	Pump Barrel Drain
④	Pump Vent
⑤	PlanCSA Drain
⑥	PlanCSA Filling
⑦	PlanCSA Vent
⑧	No Pipeline
⑨	Barrier Fluid Pipeline (form seal chamber)
⑩	Barrier Fluid Pipeline (to seal chamber)

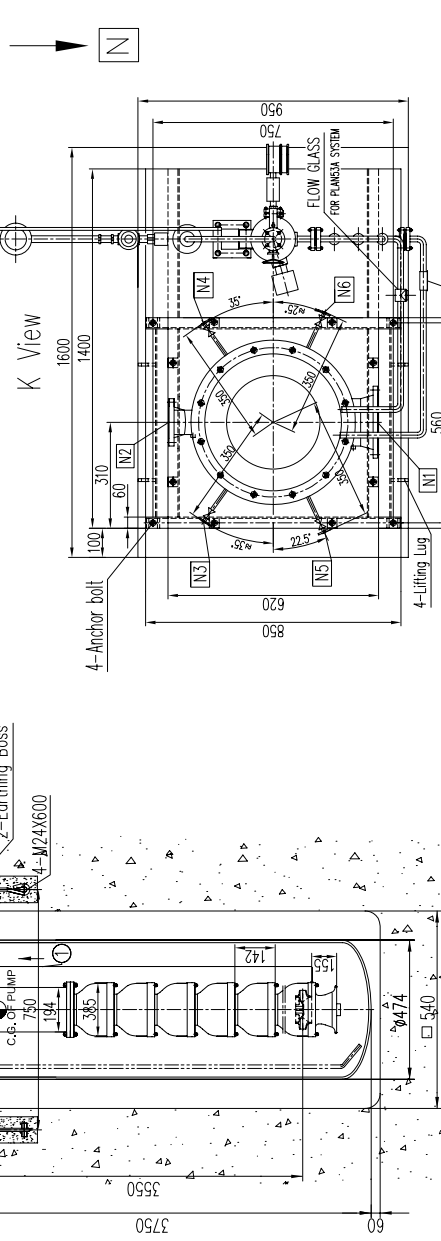
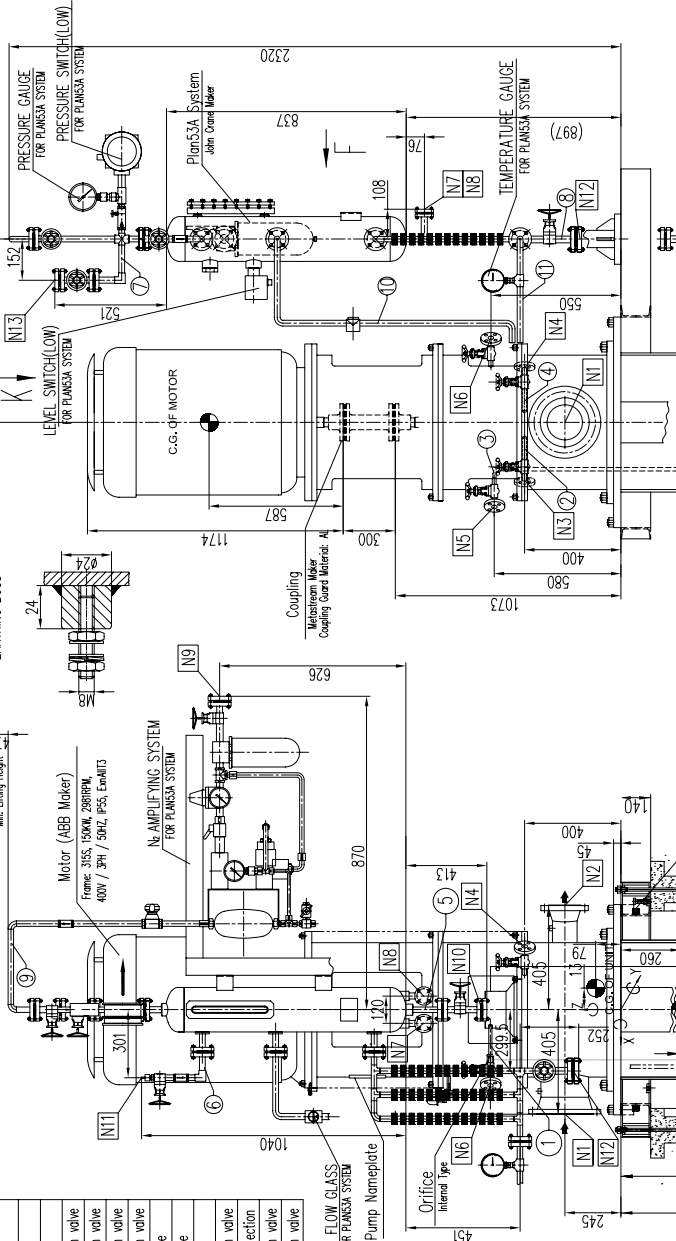
WEIGHT TABLE

PUMP	2654	KG
MOTOR	1025	KG
SEAL SYSTEM	100	KG
MOUNTING PLATE	100	KG
COUPLING	19	KG
OTHERS	40	KG
TOTAL WEIGHT	3938	KG
ROTOR OF PUMP	220	KG
ROTOR OF MOTOR	190	KG
MAX. MAINTENANCE WEIGHT	2100	KG



Outer Diameter	Radial Displacement	Axial Tilt
D ≤ 200	< 0.05	< 0.2 / 1000
200 < D ≤ 300	< 0.08	< 0.3 / 1000
300 < D ≤ 400	< 0.1	< 0.4 / 1000
MAX. ALLOWABLE MISALIGNMENT(mm)		

EARTHING BOSS



Upper Shaft		Lower Shaft	
Temp. Length(mm)	Quantity	Temp. Length(mm)	Quantity
Drain	3/4" 117.3	15.7	82.5
Discharge	2" 165	25.4	127
Suction	4" 273	38.1	215.9
Standard	DN 40	b	94
Flange Size(mm)	±1420	±1780	±920
Discharge	mm	Fx	Fz
Suction	mm	Fy	Fz
Force No	±2840	±3560	±2320
Discharge	mm	Fx	Fz
Suction	mm	Fy	Fz
Force No	±2840	±3560	±2320
Discharge	mm	Fx	Fz
Suction	mm	Fy	Fz
Force No	±2840	±3560	±2320

Max. Lifting Height

GENERAL NOTES

PUMP INFORMATION	
Item No.:	143-P-102/143-P-102S
Unit:	143
Service:	OFF-SPEC. CONDENSATE WATER RECYCLE PUMP
Model:	API610-MB 38-100X6
Seal Plan:	144-53A+61
Motor:	150KW - 2P
Capacity:	38 m <sup>3</sup> /h
Head:	549 m

Note: 1. Maximum Allowable Amplitude For Foundation:  
Velocity Peak-Peak: 4 mm/s  
Displacement Peak-Peak: 25.4 μm  
2. Cable gland: 2X MG3, M20  
Cable cores: 2(X150) mm<sup>2</sup>, 3X4 mm<sup>2</sup>  
3. Max. allowable working pressure: 80 barg  
4. For lifting position, Deep Blue suggest:  
1. through the bottom of discharge and suction nozzle;  
2. through the motor frame.

REFERENCE DRAWINGS		DWG NO.
SEAL SYSTEM DRAWING	IP-S2021-ON-MA-143-P102-0013	
MOTOR OUTLINE DRAWING	IP-S2021-ON-MA-143-P102-0016	
COUPLING DRAWING AND BOM	IP-S2021-ON-MA-143-P102-0008	

Code1	(Approved) Vendor to submit "For Final" (No comment & release for manufacturing)
Code2	(Approved with comments) Vendor shall correct / revise & submit it as "For Final" (Released for manufacturing if change incorporated as indicated)
Code3	(Commented) : Vendor shall correct / revise & resubmit - it as "For Approval" of the site specialist : (Corrected documents to be incorporated as indicated)
Code4	(Not Acceptable quality (Reject))

The above checking result by OEC shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the technical specifications.

DATE : 28-01-2014  
Machinery  
S. Shahrarian

Only for internal review									
CV	PI	EL	IN	SA	HW	MA	TL		
ST	BU	PR							

REV.	DATE	DESCRIPTION	DRG. PREP.	CHKD.	APP'D.	CONTRACTOR
8	08. Jan. 2014	FOR APPROVAL	DBP	Thio	Ryan	
7	11. Dec. 2013	FOR APPROVAL	DBP	Thio	Ryan	
6	23. Nov. 2013	FOR APPROVAL	DBP	Thio	Ryan	
5	17. Oct. 2013	FOR APPROVAL	DBP	Thio	Ryan	

SOUTH PARS GAS FIELD DEVELOPMENT-  
PHASES 20 & 21, ASSAULTYER-BAN  
ONSHORE FACILITIES

PROJECT No. : POCC-572-88-35  
DOC CLASS: :  
SCALE: :  
OIEC

OFF-SPEC. CONDENSATE RECYCLE PUMP  
143-P-102/143-P-102S  
GENERAL ARRANGEMENT DRAWING

DRAWING No. : IP-SP002-ON-MA-143-P102-0001  
SHEET No. : 1 OF 1  
REV. : 7