

PROCESS CONNECTIONS

Code	Size & Rating	Description	Remark
N1	1 1/2" - ANSI 300lb-RF	Discharge	
N2	3/4" - ANSI 300lb-RF	External casting drain	Flange With valve
N3	3/4" - ANSI 300lb-RF	Mechanical seal vent	Flange With valve
N4	3/4" - ANSI 150lb-RF	Cooling Water inlet	Blind Flange
N5	3/4" - ANSI 150lb-RF	Cooling Water Outlet	Blind Flange
N6	3/4" - ANSI 300lb-RF	Nt Connection	Flange
N7	3/4" - ANSI 300lb-RF	Plan53A Drain	Flange With valve
N8	1/2" Quick Fittings	Plan53A Filling	Quick Connection
N9	3/4" - ANSI 300lb-RF	Plan53A Vent	Flange With valve
N10	3/4" - ANSI 300lb-RF	Plan53A Cooler Drain	Flange With valve

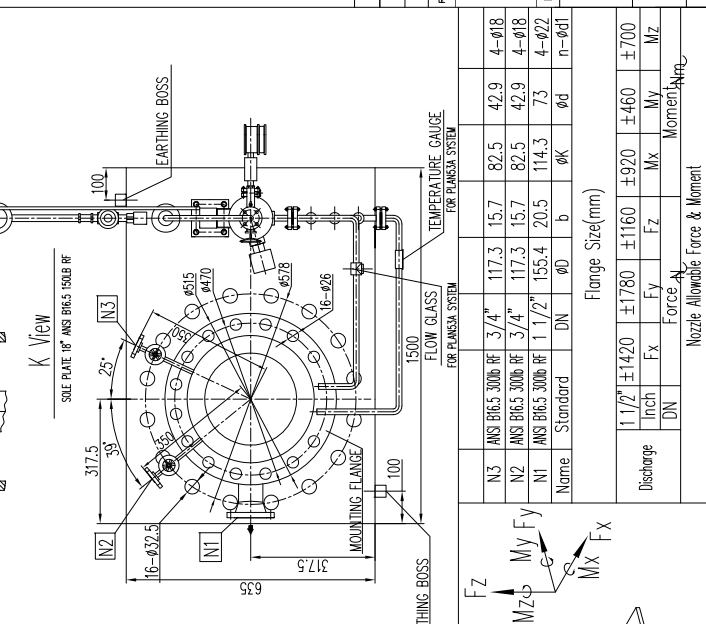
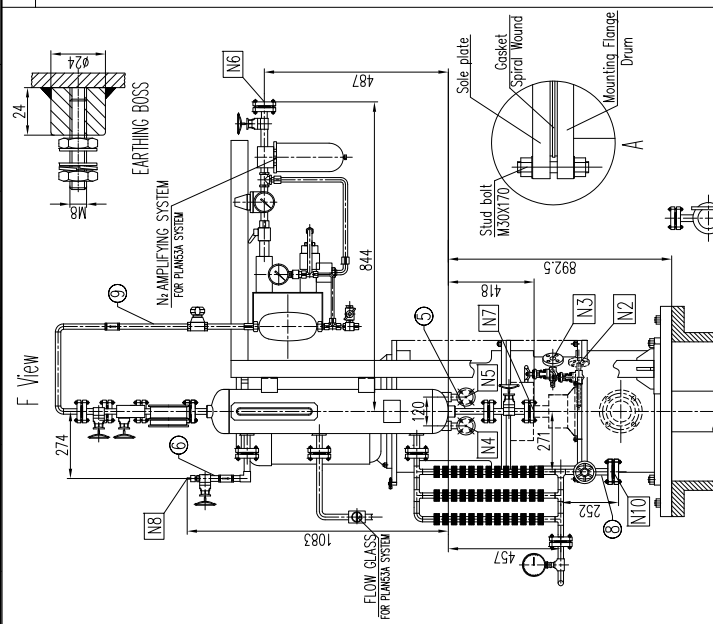
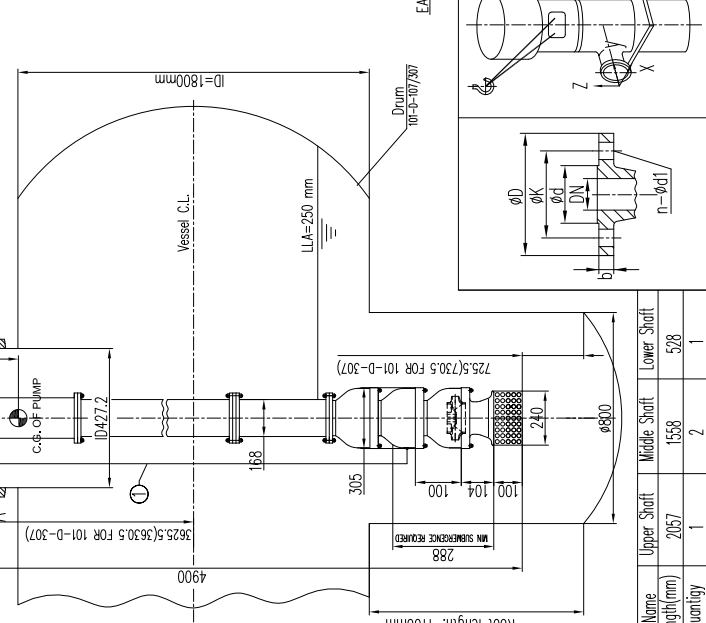
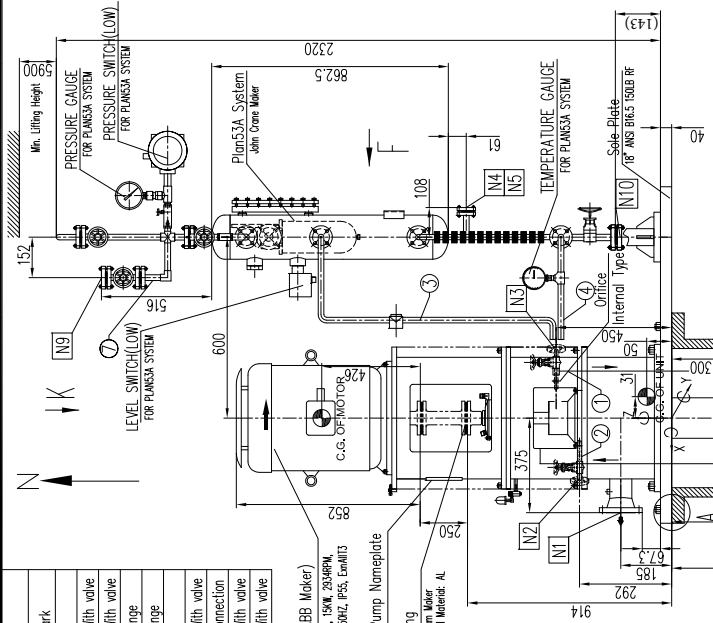
Center of gravity List			
Item	X	Y	Z
Pump	0	0	-300
Motor	0	0	1590
Units	-31	0	50

MINIMUM CLEARANCE FOR MAINTENANCE AND DISMANTLING			
Wear Ring	Second Stage(front)	0.35~0.407	
	Second Stage(behind)	0.35~0.399	
Balance Disc / Balance Sleeve	Axial	0.1~0.15	
	Radial	0.35~0.4	
Shaft Bushing / Shaft Sleeve	Bearing / Cover	0.2~0.26	
		0.1~0.2	

Pipeline Description	
Code	Description
①	Plan4 Flushing
②	External Cooling Drain
③	Barrier Fluid Pipeline (from seal chamber)
④	Barrier Fluid Pipeline (to seal chamber)
⑤	Plan53A Drain
⑥	Plan53A Filling
⑦	Plan53A Vent
⑧	Plan53A Cooler Drain
⑨	Nt Pipeline

WEIGHT TABLE	
PUMP	1029 KG
WATER SYSTEM	276 KG
COUPLING	5 KG
OTHERS	20 KG
TOTAL WEIGHT	1440 KG
WEIGHT OF PUMP	50 KG
WEIGHT OF MOTOR	28 KG
MAX. MAINTENANCE WEIGHT	1029 KG

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



GENERAL NOTES

PUMP INFORMATION

Item No.:	101-P-105,101-P-305,101-P-105S
Unit:	101
Service:	AMINE SUMP PUMP
Model:	API610-VB 20-35X3-V-A
Seal Plan:	14-53A+61
Motor:	15KW - 2P
Capacity:	13.2 m ³ /h
Head:	72.9+4.985 m

Note: 1. Cable gland: 2X40
Cable cores: 3X25 mm²
2. Max. allowable working pressure: 40 barg
3. For lifting position, Deep Blue suggest through the motor frame.
4. For Suction Strainer:
1. mesh size: 8 mm;
2. pressure drop: 0.0025 m;
3. open ratio (open area/suction area): more than 390%

REFERENCE DRAWINGS

DWG NO.	DESCRIPTION
VP-SP2021-ON-MA-101-P105-0013	SEAL SYSTEM DRAWING
VP-SP2021-ON-MA-101-P105-0016	MOTOR OUTLINE DRAWING
VP-SP2021-ON-MA-101-P105-0008	COUPLING DRAWING AND BOM

CODES

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 & specified : it as "For Approval" of the date
Code4	Not Acceptable quality (Reject)

The above checking result by OIEC shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing

DATE :
DEPT :
Signature :

OIEC-SP 202621

CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	WV	TL

Only for internal review

REV.	DATE	DESCRIPTION	DRG. PREP.	CHKD.	APP'D.	CONTRACTOR
1	18 Aug. 2013	FOR APPROVAL	DEP	Tino	Ryon	
2	15 May. 2013	FOR APPROVAL	DEP	Tino	Ryon	
3	8 Apr. 2013	FOR APPROVAL	DEP	Tino	Ryon	

PROJECT INFORMATION

SOUTH PARS GAS FIELD DEVELOPMENT - PHASES 20 & 21, ASSALUYEH-IRAN

ONSHORE FACILITIES

PROJECT No.: POGC-572-88-35

DOC-CLASS:

SCALE :

OIEC

DEEP BLUE PUMP CO.

AMINE SUMP PUMP

101-P-105,101-P-305,101-P-105S

GENERAL ARRANGEMENT DRAWING

DRAWING No.: VP-SP2021-ON-MA-101-P105-0001

SHEET No. 1 OF 1

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