

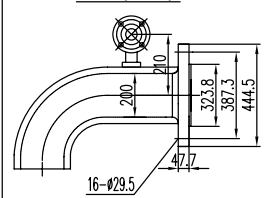
# PROCESS CONNECTIONS

Code	Name	Size & Rating	Remark
N1	Pump Discharge	8"10", 300lb, RF	
N2	Steam Inlet 1	3/4", 300lb, RF	Flange with valve
N3	Steam Outlet	3/4", 300lb, RF	Flange with valve
N4	Cooling Water Inlet	3/4", 150lb, RF	Blind Flange
N5	Cooling Water Outlet	3/4", 150lb, RF	Blind Flange
N6	N2 Connection	3/4", 300lb, RF	
N7	Plan 53A Drain	3/4", 300lb, RF	Flange with valve & blind flange
N8	Plan 53A Filling	1/2", Quick Fittings	
N9	Plan 53A Cooler Drain	3/4", 300lb, RF	Flange with valve & blind flange
N10	Plan 53A Vent	3/4", 300lb, RF	Flange with valve & blind flange
N11	Steam Inlet 2	3/4", 300lb, RF	Flange with valve

## Center of gravity List

Item	X	Y	Z
Pump	197	0	-810
Motor	207	0	1307
Units	212	0	-80

## Discharge flange

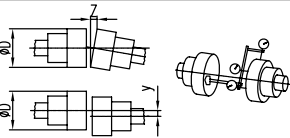


## Pipeline Instruction

- ① Steam Inlet Pipeline
- ② Steam Outlet Pipeline
- ③ Plan53A Flushing Pipeline (to seal chamber)
- ④ Plan53A Flushing Pipeline (from seal chamber)
- ⑤ N2 Inlet Pipeline
- ⑥ Plan 53A Drain
- ⑦ Plan 53A Filling
- ⑧ Plan 53A Cooler Drain
- ⑨ Plan 53A Vent

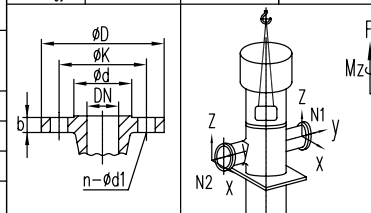
## WEIGHT TABLE

PUMP	:	1300	KG
MOTOR	:	405	KG
SEAL SYSTEM	:	80	KG
MOUNTING PLATE	:	230	KG
OTHERS	:	40	KG
TOTAL WEIGHT	:	2055	KG
ROTOR OF PUMP	:	200	KG
ROTOR OF MOTOR	:	78	KG
MAX. MAINTAINCE WEIGHT	:	320	KG

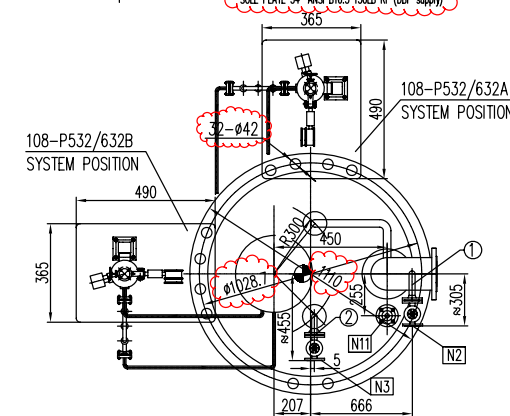
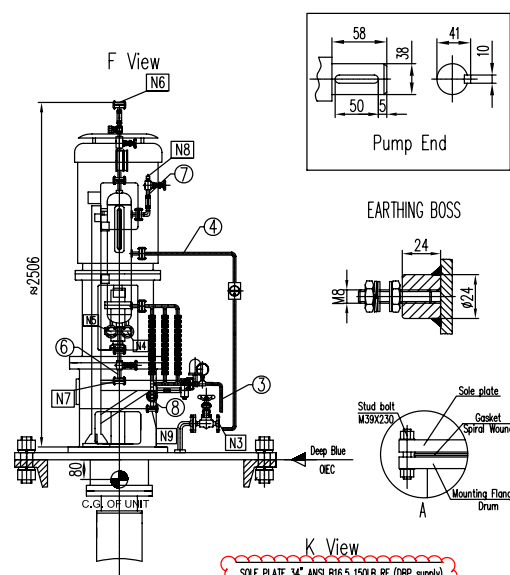
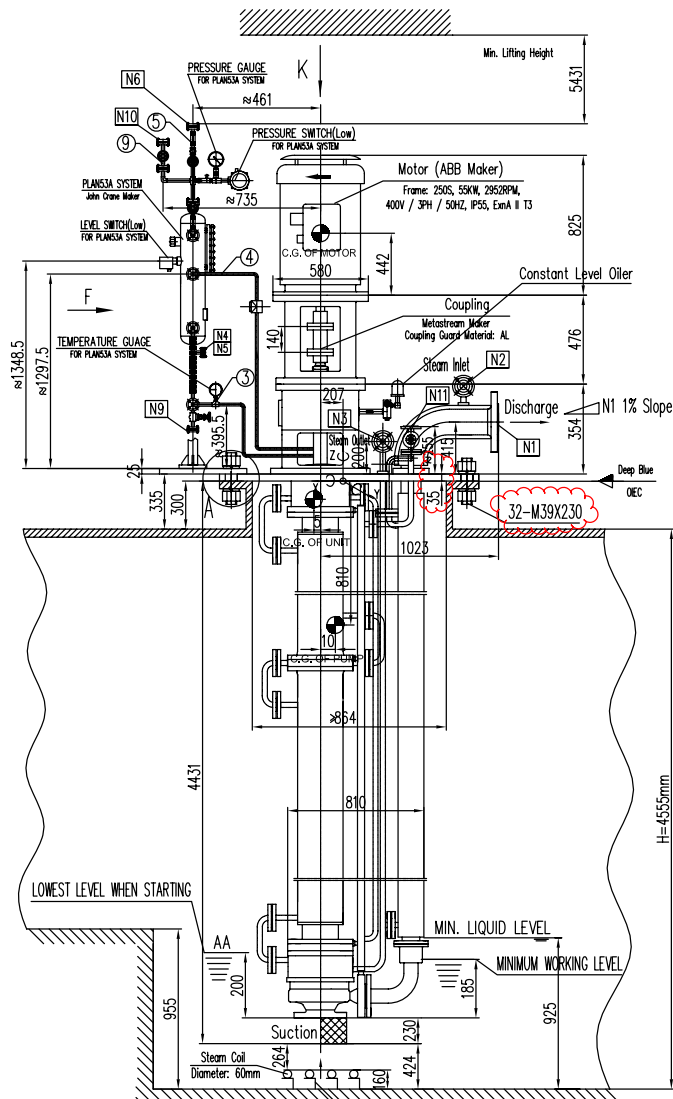


Outer Diameter Coupling (D)	Radial Displacement	Axial Tilt
D ≤ 200	< 0.05	< 0.2 / 1000
200 < D ≤ 300	< 0.08	< 0.3 / 1000
300 < D ≤ 400	< 0.1	< 0.4 / 1000
MAX. ALLOWABLE MISALIGNMENT(mm)		

Name	Upper Shaft	Middle Shaft	Lower Shaft
Length(mm)	2258	1075	1463
Quantity	1	1	1



Nozzle Allowable Force & Moment			
Force (N)	Fx	Fy	Fz
N1	±10680	±13340	±8900
Moment (N.m)	Mx	My	Mz
2XAPI	±10040	±4880	±7600



MINIMUM CLEARANCE (mm)			
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		0.2~0.26	
Bearing / Cover		0.1~0.2	

# GENERAL NOTES

## PUMP INFORMATION

Item No.:	108-P-532/632 A/B
Unit:	108
Service:	SULPHUR DEGASSING PUMP
Model:	LGJ 80-200-A-14
Seal Plan:	53A
Motor:	55KW - 2P
Capacity:	130 m <sup>3</sup> /h
Head:	38.65+4.651 m

- Note: 1. Max. allowable working pressure: 20 barg  
 2. For lifting position, Deep Blue suggest:  
 Through the motor frame.  
 3. For Suction Strainer:  
 1. mesh size: 8 mm;  
 2. pressure drop: 0.0046 m;  
 3. open ratio (open area/suction area): more than 390%.  
 4. Mounting flange of pump side and spiral wound gasket, stud bolt between mounting flanges are in DBP's scope of supply.  
 Mounting flange on sulphur pit will be supplied by customer.

REFERENCE DRAWINGS	DWG NO.
SEAL SYSTEM DRAWING	VP-SP2021-ON-MA-108-P532-0013
MOTOR OUTLINE DRAWING	VP-SP2021-ON-MA-108-P532-0016
COUPLING DRAWING AND BOM	VP-SP2021-ON-MA-108-P532-0008
ELECTRICAL MOTOR DATASHEET	VP-SP2021-ON-MA-108-P532-0009
PUMP DATASHEET	VP-SP2021-ON-MA-108-P532-0003

Code 1 ☒ (Approved) Vendor to submit "For Final" (No comment & release for manufacturing) (Approved with comments) Vendor shall correct / revise & submit it as "For Final" (Released for manufacturing if change incorporated as indicated)

resubmit - it as "For Approval" of the date specified : ( Corrected documents to be Not Acceptable quality (Reject)

purchase order and the mutual agree

OIEC-SP 20&21	DATE : 09-09-2014
	DEPT: Machinery
	Signature : S.Shahriarian

IN	ME	MA
SA	HV	TL

5	6. Aug. 2014	FOR APPROVAL	DBP	Eric	Tino	Ryan
4	18. Mar. 2014	FOR APPROVAL	DBP	Eric	Tino	Ryan
3	25. Feb. 2014	FOR APPROVAL	DBP	Eric	Tino	Ryan
2	28. Dec. 2013	FOR APPROVAL	DBP	Eric	Tino	Ryan
REV.	DATE	DESCRIPTION	ORIG.	PREP.	CH'D.	APP'D.

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



PROJECT No.:	POGC-572-88-35	DOC.CLASS:	SCALE :
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SULPHUR DEGASSING PUMP 108-P-532/632 A/B GENERAL ARRANGEMENT DRAWING

DRAWING No.	VP-SP2021-ON-MA-108-P532-0001	SHEET No.	1 OF 1	REV.	5
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