

PROCESS CONNECTIONS			
Code	Name	Size & Rating	Remark
N1	Pump Discharge	3", 300#, RF	Flange with valve & blind flange
N2	External Cooling Drain	3/4", 300#, RF	Flange with valve & blind flange
N3	Mechanical Seal Vent	3/4", 300#, RF	Flange with valve & blind flange
N4	N2 Connection	1/2", 800#, RF	Flange with valve & blind flange
N5	Plan 53B Drain	3/4", 800#, RF	Flange with valve & blind flange
N6	Plan 53B Filling	1/2", 800#, RF	Flange with valve & blind flange
N7	Plan 53B Vent	3/4", 800#, RF	Flange with valve & blind flange

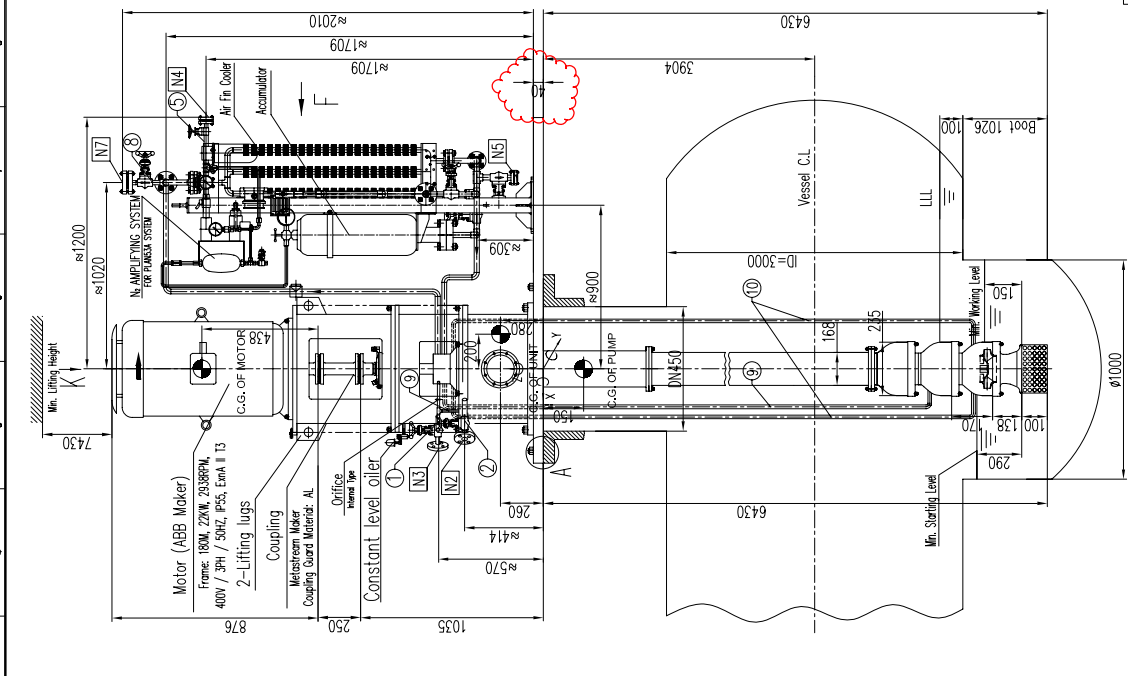
Center of gravity List				
Item	X	Y	Z	
Pump	0	0	-150	
Motor	0	0	1723	
Units	-200	0	280	

MINIMUM CLEARANCE (mm)	
Wear Ring	0.35-0.407
Second Stage(front)	0.35-0.399
Second Stage(behind)	0.1-0.15
Balance Disc / Balance Sleeve	0.35-0.4
Shaft Bushing / Shaft Sleeve	0.2-0.26
Bearing / Cover	0.1-0.2

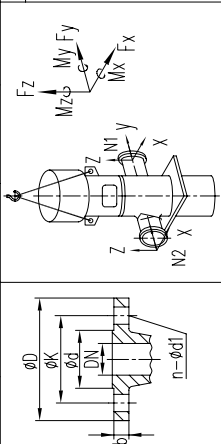
Pipeline Description	
①	Mechanical Seal Vent
②	External Cooling Drain
③	Plan53B Flushing Pipeline (to seal chamber)
④	Plan53B Flushing Pipeline (from seal chamber)
⑤	N2 Filling
⑥	Plan53B Drain
⑦	Plan53B Filling
⑧	Plan53B Vent
⑨	Plan14 Flushing & Return Pipeline
⑩	Balance Pipeline

WEIGHT TABLE	
PUMP	1000 KG
MOTOR	259 KG
SEAL SYSTEM	240 KG
MOUNTING PLATE	260 KG
OTHERS	30 KG
TOTAL WEIGHT	1789 KG
ROTOR OF PUMP	80 KG
ROTOR OF MOTOR	37 KG
MAX. MAINTENANCE WEIGHT	1000 KG

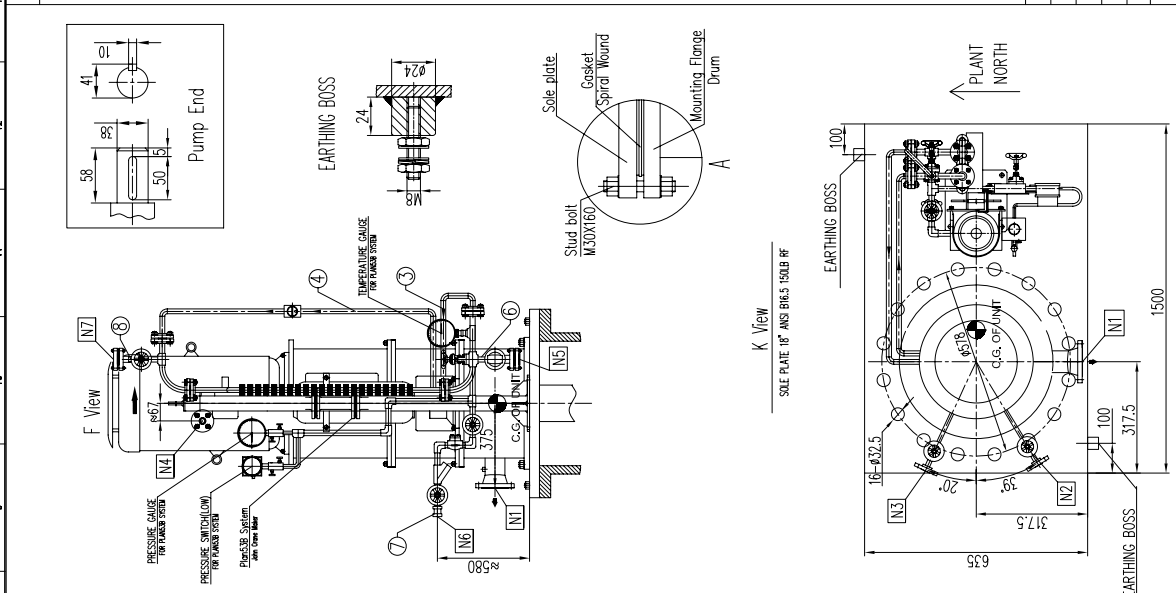
Outer Diameter	
Coupling (ø)	Radial Displacement
D ≤ 200	< 0.05
200 < D ≤ 300	< 0.08
300 < D ≤ 400	< 0.1
MAX. ALLOWABLE MISALIGNMENT(mm)	Axial Tilt
	< 0.2 / 1000
	< 0.3 / 1000
	< 0.4 / 1000



Name	Upper Shaft	Middle Shaft	Lower Shaft
Length(mm)	2060	2000	1302
Quantity	1	2	1



Nozzle Allowable Force & Moment			
Force (N)	N1	N2	N3
Fx	±2140	±2660	±1780
Fy	±1900	±940	±1440
Fz	±1900	±940	±1440
Moment (N.m)			
Mx	±1900	±940	±1440
My	±1900	±940	±1440
Mz	±1900	±940	±1440



Flange Size(mm)			
Flange Size(mm)	N1	N2	N3
DN	Standard	Standard	Standard
ØD	127	127	127
ØK	127	127	127
Ød1	127	127	127

GENERAL NOTES

1. Max. allowable working pressure: 40 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 300%.

PUMP INFORMATION

Item No.: 108-P-507/607

Unit: 108

Service: SLOP PUMP

Model: APFLO-VB 45-25X3-V

Seal Plan: 14-53B

Motor: 22KW - 2P

Capacity: 44 m³/h

Head: 60±6.59 m

REFERENCE DRAWINGS

DWG NO

SEAL SYSTEM DRAWING

MOTOR OUTLINE DRAWING

COUPLING DRAWING AND BOM

ELECTRICAL MOTOR DATASHEET

PUMP DATASHEET

VP-SP2021-ON-MA-108-P507-0013

VP-SP2021-ON-MA-108-P507-0016

VP-SP2021-ON-MA-108-P507-0008

VP-SP2021-ON-MA-108-P507-0009

VP-SP2021-ON-MA-108-P507-0003

Code1

Code2

Code3

Code4

(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)

(Commented) : Vendor shall correct / revise & resubmit : It as "For Approval" of the date specified : (Corrected documents to be incorporated as indicated)

Not Acceptable quality (Reject)

DATE : 30-04-2014

DEPT: Machinery

Signature: S. Shannan

Only for internal review

CV

PI

EL

IN

ME

MA

ST

BU

PR

SA

HW

TL

14. Apr. 2014

7. Mar. 2014

13. Feb. 2014

26. Dec. 2013

13. Nov. 2013

FOR APPROVAL

FOR APPROVAL

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DESCRIPTION

DBP

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

PROJECT No.: POGC-572-88-35

DOC CLASS:

DEEP BLUE PUMP CO.

SLOP PUMP 108-P-507/607

GENERAL ARRANGEMENT DRAWING

DRAWING No.: VP-SP2021-ON-MA-108-P507-0003

SHEET No.: 1 OF 1

REV. 5