

PROCESS CONNECTIONS

Code	Size & Rating	Description	Remark
N1	3/4" ANSI 300LB-RF	Discharge	
N2	3/4" ANSI 300LB-RF	External casing 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	N ₂ 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	-270
Motor	0	0	1531
Units	-33	0	56

Motor (ABB Maker)

Frame 18kW, 18.5kW, 20.0kW

400V / 50Hz / 50°C, IEC603

400V / 50Hz / 50°C, IEC603

Coupling

Metallum Water

MINIMUM CLEARANCE FOR MAINTENANCE AND DISMANTING (mm)

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

Pipeline Description

Code	Description
①	Plan51 Flaring
②	External Casing 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	N ₂ Pipeline

WEIGHT TABLE	
PUMP	899 KG
SEAL SYSTEM	271 KG
PLAN53A	100 KG
COUPLING	20 KG
OTHERS	400 KG
TOTAL WEIGHT	1670 KG
HEIGHT OF PUMP	51 KG
HEIGHT OF MOTOR	51 KG
MAX. MAINTENANCE WEIGHT	899 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)

Name	Upper Shaft	Middle Shaft	Lower Shaft
Length (mm)	1805	1540	768
Quantity	1	2	1

GENERAL NOTES

PUMP INFORMATION	
Item No.:	116-P-115,116-P-115S,116-P-215
Unit:	116
Service:	AMINE SUMP PUMP
Model:	API610-VB 8.5-25X3-V
Seal Plan:	14-53A+61
Motor:	18.5KW - 2P
Capacity:	8 m ³ /h
Head:	69.4/97.5 m

Note: 1. Cable gland: 2XMA40

Cable cores: 3X35 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: 0.0015 m;

3. open ratio (open area/suction area): more than 300%.

REFERENCE DRAWINGS	DWG. NO.
SEAL SYSTEM DRAWING	VP-SP2021-ON-MA-116-P115-0013
MOTOR OUTLINE DRAWING	VP-SP2021-ON-MA-116-P115-0016
COUPLING DRAWING AND BOM	VP-SP2021-ON-MA-116-P115-0008

Code1	(Approved) Vendor to submit "For Final" (Approval and revision) (Vendor shall correct / revise and submit it as "For Final" (released for manufacturing if change incorporated as indicated)
Code2	(Commented) : Vendor shall correct / revise & resubmit. It as "For Approval" of the date specified : (Corrected documents to be incorporated as indicated)
Code3	(Not Acceptable quality (Reject)
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 : 01-09-2013
DEPT: Machinery
Signature: S. Shahrarian

Only for internal review	CV	PI	EL	FR	SA	ME	MA
	ST	BU					

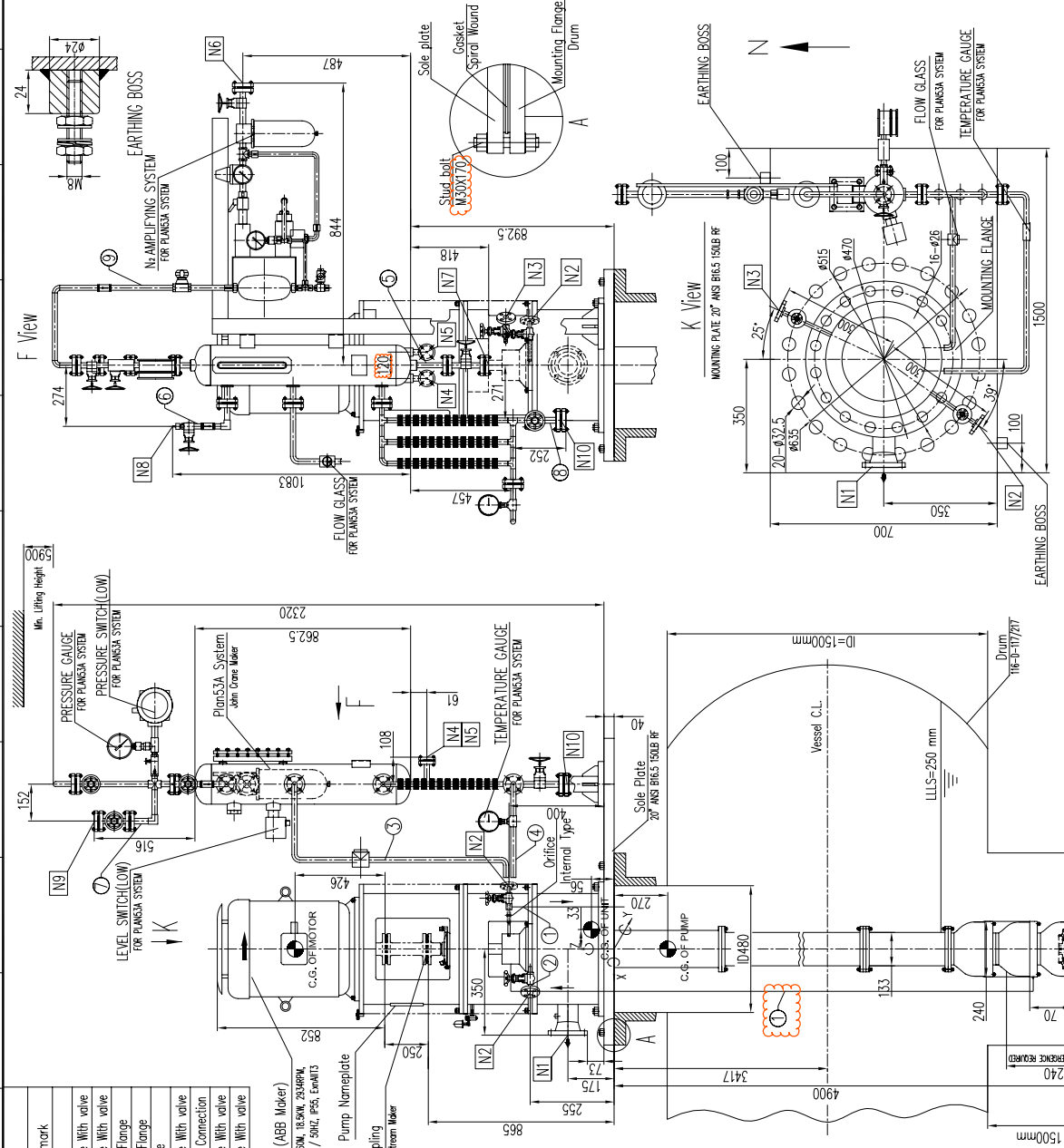
REV.	DATE	DESCRIPTION	ORIG. PREP.	CHKD.	APP'D.	CONTRACTOR
1	15. Aug. 2013	FOR APPROVAL	DBP	Tino	Ryan	
2	15. May. 2013	FOR APPROVAL	DBP	Tino	Ryan	
3	15. Apr. 2013	FOR APPROVAL	DBP	Tino	Ryan	

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

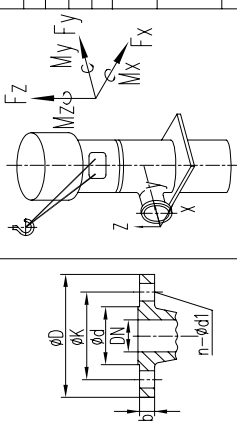
PROJECT No.: POGC-572-88-35
DOC CLASS: SCALE :
OIEC

AMINE SUMP PUMP
116-P-115,116-P-115S,116-P-215
GENERAL ARRANGEMENT DRAWING

DRAWING No.: VP-SP2021-ON-MA-116-P115-0008
SHEET No.: 1 OF 1
REV. 4



Flange Size(mm)		Nozzle Allowable Force & Moment	
Discharge	Force (N)	Moment (Nm)	
N3	±1420	±1160	±460
N2	±1420	±1160	±460
N1	±1420	±1160	±460



Name	Upper Shaft	Middle Shaft	Lower Shaft
Length (mm)	1805	1540	768
Quantity	1	2	1