

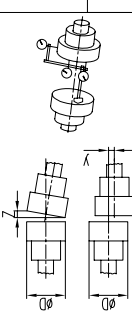
PROCESS CONNECTIONS			
Code	Size & Rating	Description	Remark
N1	1 1/2" - ANSI 300LB-RF	Discharge	
N2	3/4" - ANSI 300LB-RF	External casing drain	Flange With valve
N3	3/4" - ANSI 300LB-RF	Mechanical seal vent	Flange With valve
N4	3/4" - ANSI 150LB-RF	Cooling Water Inlet	Blind Flange
N5	3/4" - ANSI 150LB-RF	Cooling Water Outlet	Blind Flange
N6	3/4" - ANSI 300LB-RF	Nc 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	1602
Units	-30	0	48

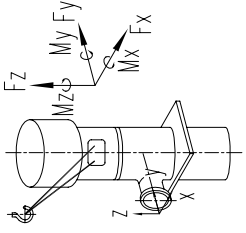
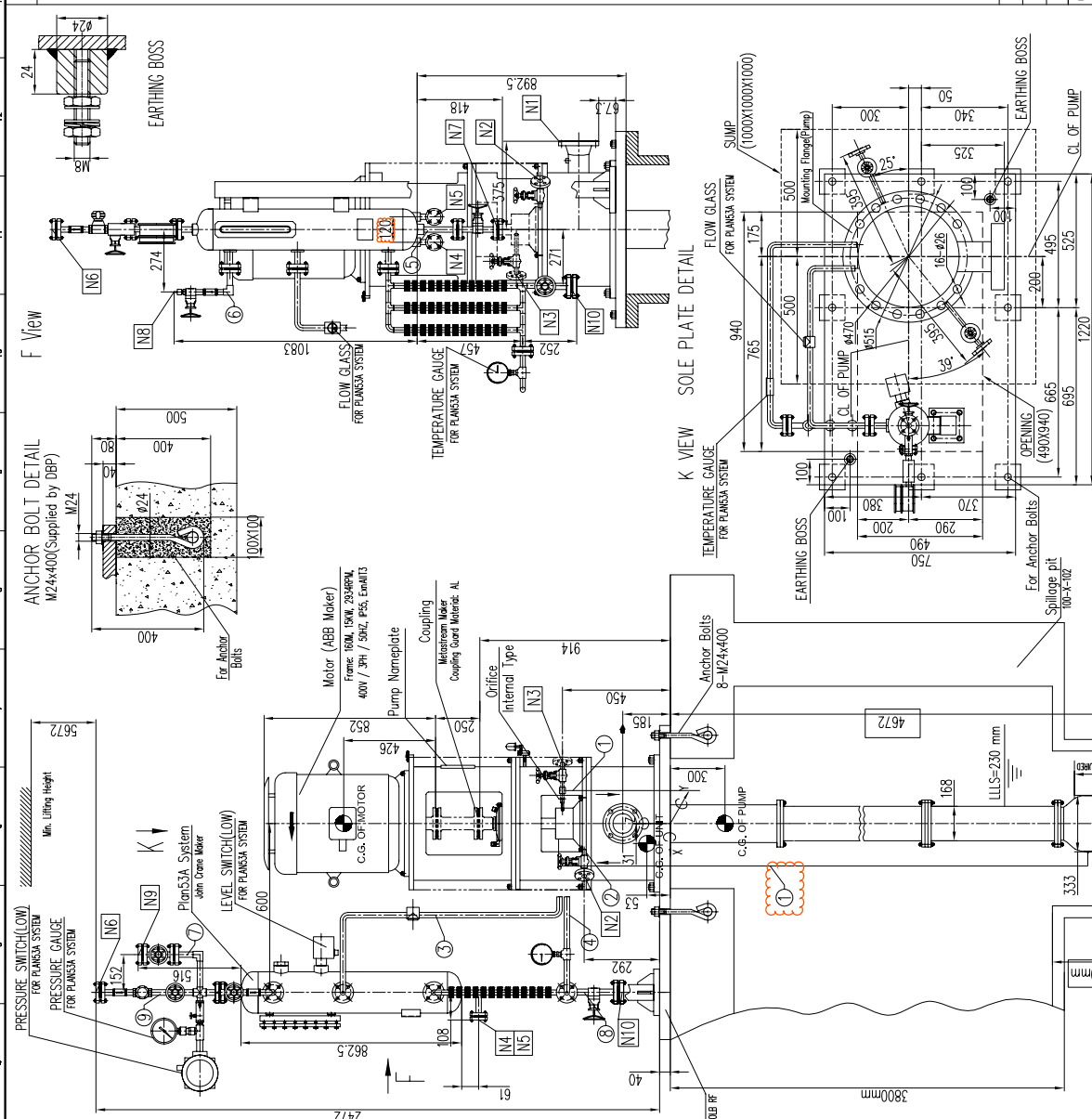
MINIMUM CLEARANCE FOR MAINTENANCE AND DISMANTLING (mm)		
Wear Ring	Second Stage (front)	0.35~0.407
	Second Stage (behind)	0.35~0.399
Balance Disc / Balance Sleeve	Axial	0.1~0.15
	Radial	0.35~0.4
Shaft Bushing / Shaft Sleeve	Bearing / Cover	0.2~0.26
		0.1~0.2

Pipeline Description	
Code	Description
①	Plan54 Flushing
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	Nc Pipeline

WEIGHT TABLE	
PUMP	1069 KG
MOTOR	276 KG
SEAL SYSTEM	81 KG
FLUSHING PIPE	81 KG
COUPLER	41 KG
COUPLER	41 KG
TOTAL WEIGHT	1500 KG
ROTOR OF PUMP	120 KG
ROTOR OF MOTOR	276 KG
MAX. MAINTENANCE WEIGHT	1069 KG



Outer Diameter	Radial Displacement		Axiel Tilt
	Coupling (φ)	Displacement	
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)			



Flange Size (mm)			
Discharge	1 1/2" ±1420	±1780	±1160
Force (N)	Fx	Fy	Fz
Moment (Nm)	Mx	My	Mz
Nozzle Allowable Force & Moment			

Name	Upper Shaft	Middle Shaft	Lower Shaft
Length (mm)	2057	1558	1858
Quantity	1	1	1

GENERAL NOTES

Item No.:	100-P-106/206
Unit:	100
Service:	SPILLAGE PIT PUMP
Model:	APFLO-AB 30-35X2-V
Seal Plan:	14-53A-61
Motor:	15KW - 2P
Capacity:	30 m ³ /h
Head:	43.4, 757 m

Note: 1. Maximum Allowable Amplitude For Foundation:
Velocity Peak-Peak: 4 mm/s
Displacement Peak-Peak: 25.4 μm
2. Cable gland: 20MA0
3. Max. allowable working pressure: 40 barg
4. For lifting position, Deep Blue suggest: Through the motor frame.
5. For Suction Strainer:
1. mesh size: 8 mm;
2. pressure drop: 0.0032 m;
3. open ratio (open area/suction area): more than 300%.

REFERENCE DRAWINGS

DWG NO.	VP-S92021-ON-MA-100-P106-0013
SEAL SYSTEM DRAWING	VP-S92021-ON-MA-100-P106-0016
MOTOR OUTLINE DRAWING	VP-S92021-ON-MA-100-P106-0008
COUPLING DRAWING AND BOM	

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 & submit it as "For Final" (No comment & release for manufacturing)
Code4	Not acceptable quality (reject)

01-09-2013 Machinery S. Shahrarian

DATE: 01-09-2013
DEPT: Machinery
Signature: S. Shahrarian

Only for internal review

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

18 Aug. 2013	FOR APPROVAL	DBP	Tino	Ryan
15 May. 2013	FOR APPROVAL	DBP	Tino	Ryan
19 Apr. 2013	FOR APPROVAL	DBP	Tino	Ryan
REV.	DATE	DESCRIPTION	DRG. PREP.	CHD. APP'D.

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

PROJECT No.: POGC-572-88-35

DOC CLASS: SCALE: 1:1

DEEP BLUE PUMP CO.

SPILLAGE PIT PUMP 100-P-106/206

GENERAL ARRANGEMENT DRAWING

DRAWING No.: VP-S92021-ON-MA-100-P106-0001

SHEET No.: 1 OF 1

REV. 4