

PROCESS CONNECTIONS			
Code	Size & Rating	Description	Remark
N1	8"-ANSI 600lb RF	Pump Suction	
N2	6"-ANSI 600lb RF	Pump Discharge	
N3	3/4"-ANSI 600lb-RF	Pump Drain	Flange with valve/blanked
N4	G2"	Baseplate Drain	
N5	1/2"-ANSI 600lb RF	N <sub>2</sub> Filling Connection	Flange with valve
N6	3/4"-ANSI 600lb RF	Plan 53B Drain	Flange with valve/blanked
N7	1/2" Quick Fittings	Filling Connection	Quick connection
N8	3/4"-ANSI 600lb RF	Plan 53B Vent	Flange with valve/blanked
N9	3/4"-ANSI 600lb RF	Pump Vent	Flange with valve/blanked

Pipeline Description	
①	Pump Drain
②	Plan53B Flushing Pipeline (to seal chamber)
③	Plan53B Flushing Pipeline (from seal chamber)
④	Plan53B N <sub>2</sub> Filling Pipeline (from Amplifier System)

WEIGHT TABLE	
PUMP	: 850 KG
MOTOR	: 425 KG
SEAL SYSTEM	: 400 KG
BASEPLATE	: 1000 KG
OTHERS	: 30 KG
TOTAL WEIGHT	: 2705 KG
ROTOR WEIGHT	: 47.5 KG

Maximum Allowable Amplitude for Foundation:		
Velocity (PEAK)	: 4	mm/s
Displacement	: 25.4	mm

GENERAL NOTES

PUMP INFORMATION	
Item No.:	105-P-102/202/302/402 A/B
Unit:	105
Service:	DEETHANIZER REFLUX PUMPS
Model:	APFLO-180HDD130
Seal Plan:	53B+61
Motor:	55kW - 2975RPM

1. Valve type of pump drain and vent is ball valve.

REFERENCE DRAWINGS	DWG NO.
MECH. SEAL SYSTEM DRAWING	VP-SP2021-ON-MA-105-P102-0013
MOTOR OUTLINE DRAWING	VP-SP2021-ON-MA-105-P102-0016
COUPLING DRAWING	VP-SP2021-ON-MA-105-P102-0008

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 & resubmit : it as "For Approval" of the date specified : ( Corrected documents to be incorporated as indicated)

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

OIEC-SP 20&21

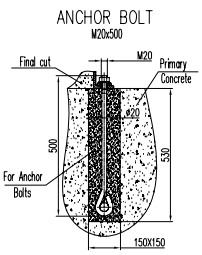
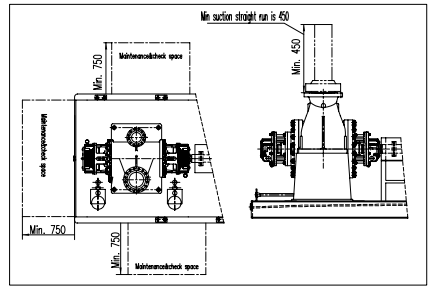
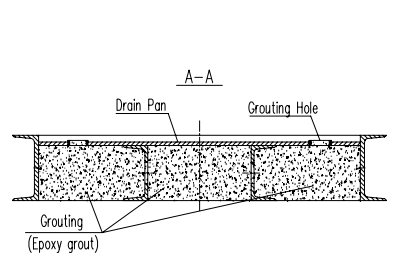
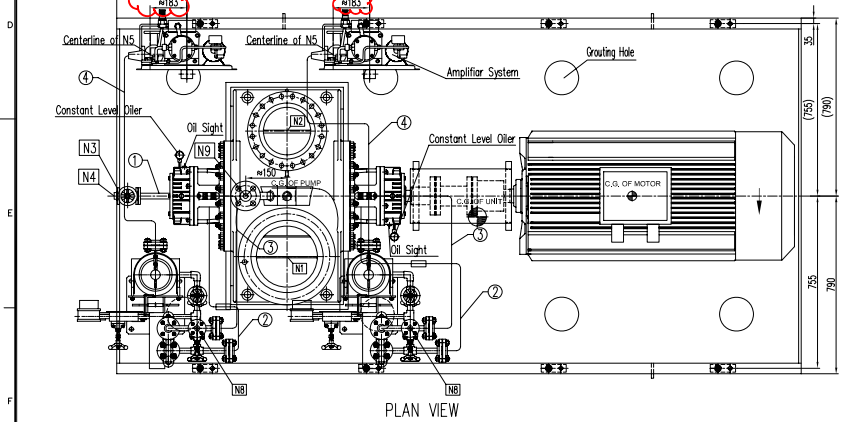
DATE: 07/06/2014

DEPT: Machinery

Signature: Salem

Only for internal review

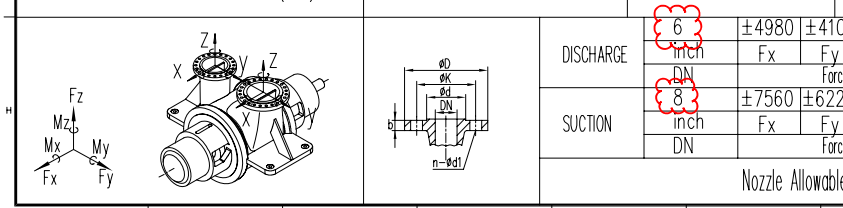
CV	PI	EL	IN	ME	MA
ST	BU	PR	SA	HV	TL



Rotation: Anti-Clockwise viewed from the drive-end

Static loading calculation results			Dynamic loading calculation results		
FXStatic=±	7820	N	FXdynamic=±	0	N
FYStatic=±	6420	N	FYdynamic=±	89	N
FZStatic=±	-17737/37297	N	FZdynamic=±	89	N
MXStatic=±	14846	N*m	MXdynamic=±	222/-130	N*m
MYStatic=±	23391/10370	N*m	MYdynamic=±	58	N*m
MZStatic=±	11292	N*m	MZdynamic=±	58	N*m

D≤200	X	≤0.05	C.G. OF UNIT	X	35
	Y	≤0.05		Y	-55
200<D≤300	Z	±0.1		Z	465
	X	≤0.08	C.G. OF PUMP	X	425
	Y	≤0.08		Y	0
300<D≤400	Z	±0.15		Z	715
	X	≤0.10	C.G. OF MOTOR	X	-948
	Y	≤0.10		Y	0
	Z	±0.2		Z	620



DISCHARGE	6 inch DN	±4980	±4100	±6220	±4600	±2360	±3520
		Fx	Fy	Fz	Mx	My	Mz
SUCTION	8 inch DN	±7560	±6220	±9780	±7060	±3520	±5160
		Fx	Fy	Fz	Mx	My	Mz

Name	Standard	DN	Size	Pressure	Temp	Material	Remarks
N3	ANSI B16.5 600lb RF	3/4"	120	16	82.5	43	4-Ø18
N2	ANSI B16.5 600lb RF	6"	355	48	292	216	12-Ø29.5
N1	ANSI B16.5 600lb RF	8"	419.1	55.6	349.2	270	12-Ø32.5

5 12.May.2014 FOR APPROVAL DBP Apple Ryan Tino

4 06.Jan.2014 FOR APPROVAL DBP Apple Ryan Tino

3 03.Dec.2013 FOR APPROVAL DBP Apple Ryan Tino

2 28.Oct.2013 FOR APPROVAL DBP Apple Ryan Tino

1 14.Aug.2013 FOR APPROVAL DBP Apple Ryan Tino

0 23.MAY.2013 FOR APPROVAL DBP Apple Ryan Tino

REV. DATE DESCRIPTION ORIG. PREP. CH'D. APP'D. Contractor APP'D

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

NIOC  
NATIONAL IRANIAN OIL COMPANY

PROJECT No.: POGC-572-88-35

DOC.CLASS: SCALE :

DEEP BLUE PUMP CO.

OIEC

105-P-102A/B 105-P-202A/B 105-P-302A/B 105-P-402A/B  
DEETHANIZER REFLUX PUMPS  
GENERAL ARRANGEMENT DRAWING

DRAWING No. VP-SP2021-ON-MA-105-P102-0001 SHEET No. 1 OF 1 REV. 5