

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	No 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

Motor (ABB Maken)

Frame 180M, 22kW, 2300RPM, 400V / 3PH / 50HZ, IP55, Ex. II

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Pump Name

Coupling

Metalcoat Motor

Coupling Guard Material

Center of gravity List	
Item	X Y Z
Pump	0 0 -310
Motor	0 0 1602
Units	-30 0 53

MINIMUM CLEARANCE FOR MAINTENANCE AND DISMANTLING (mm)

Second Stage(front) 0.35~0.407

Second Stage(behind) 0.35~0.399

Balance Disc / Balance Sleeve Axial 0.1~0.15

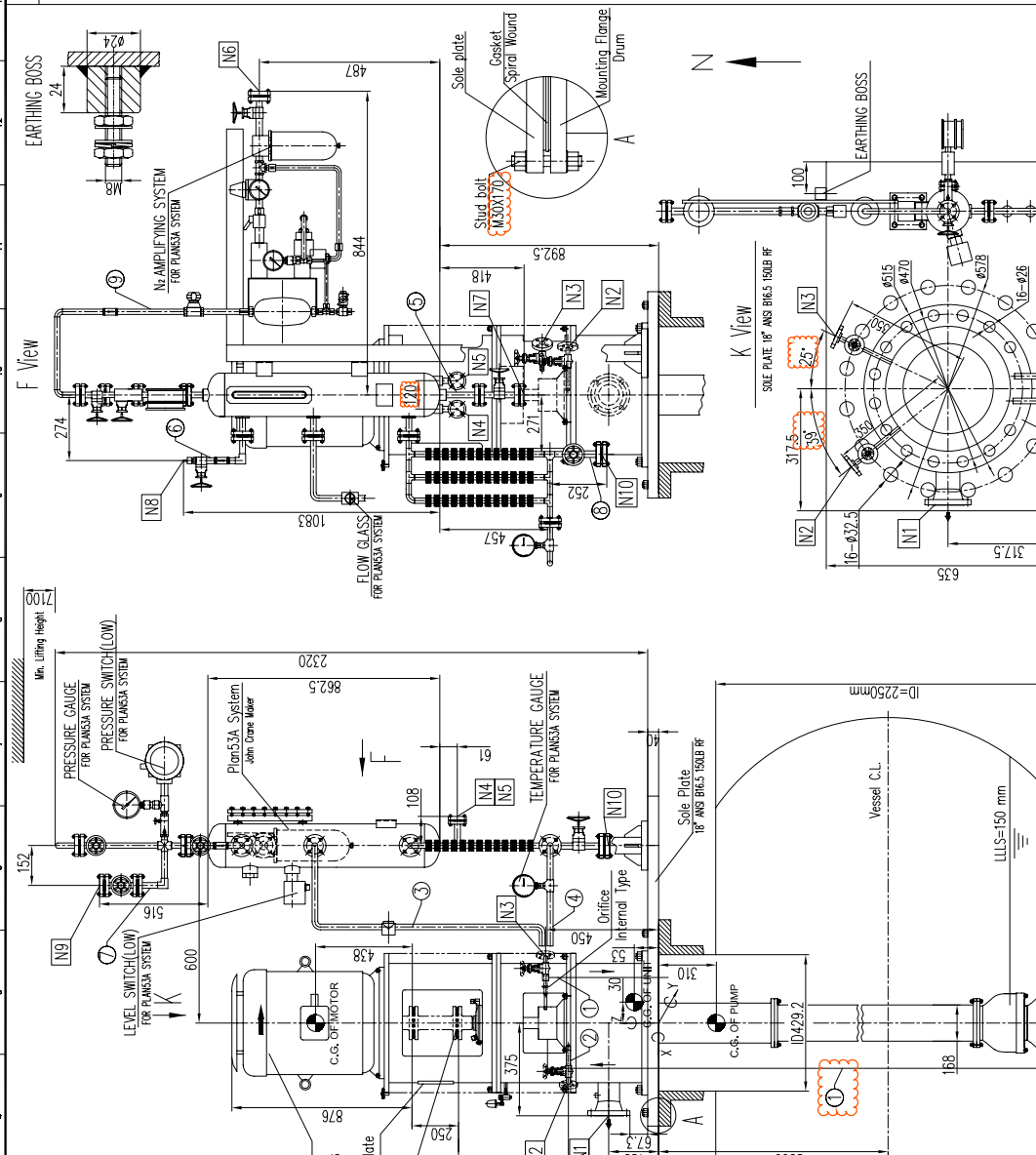
Rodial 0.35~0.4

Shaft Bushing / Shaft Sleeve 0.2~0.26

Bearing / Cover 0.1~0.2

Pipeline Description	
Code	Description
①	Plan14 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	No Pipeline

WEIGHT TABLE	
PUMP	: 1149 KG
SEAL SYSTEM	: 259 KG
WEARING PLATE	: 80 KG
COUPLING	: 5 KG
OTHERS	: 20 KG
TOTAL WEIGHT	: 1603 KG
ESTIMATE OF MOTOR	: 146 KG
ESTIMATE OF MOTOR	: 17 KG
MAX. MAINFRAME WEIGHT	: 349 KG



GENERAL NOTES

PUMP INFORMATION	
Item No.:	143-P-104
Unit:	143
Service:	SUMP DRUM PUMP(OSBL)
Model:	APELO-VB 20-35KA-V
Seal Plan:	143-53A+61
Motor:	22KW – 2P
Capacity:	15 m ³ /h
Head:	105.5x6.185 m

Note: 1. Cable gland: 2XMA40
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: 0.0032 m;
3. open ratio (open area/suction area): more than 300%.

REFERENCE DRAWINGS	DWG NO.
SEAL SYSTEM DRAWING	VP-SF2021-ON-MA-43-P104-0013
MOTOR OUTLINE DRAWING	VP-SF2021-ON-MA-43-P104-0016
COUPLER DRAWING AND BOM	VP-SF2021-ON-MA-43-P104-0008

Code1	<div><div></div><div>(Approved) Vendor to submit "For Final (No comment & releases for manufacturing)</div></div>
	<div><div></div><div>(No comment with comments) Vendor shall correct / revise & submit it as "For Final"</div></div>
Code2	<div><div></div><div>(Released for manufacturing if change incorporated as indicated)</div></div>
	<div><div></div><div>(Commented) : Vendor shall correct / revise & resubmit : it as " For Approval" of the date specified : (Corrected documents to be incorporated as indicated)</div></div>
Code4	<div><div></div><div>Not Acceptable quality (Reject)</div></div>

The above checking result by O&E shall in no way relieve the Vendor of its responsibility to ensure that the goods purchased under this contract are in accordance with the purchase order and the mutual agreement in writing.

OISC-SP 20x21

DATE : 01-09-2013

DEPT: Machinery

S.Shahriaran

Only for Internal Review

CY	PI	EL	IN	ME	MA
ST	BU	PR	SA	HY	TL

MAX. ALLOWABLE MISALIGNMENT (mm)		
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

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