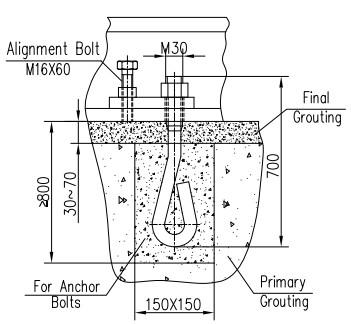
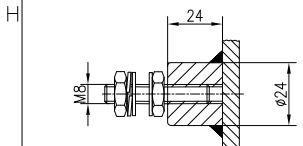


#### MOTOR ALIGNMENT SCREWS

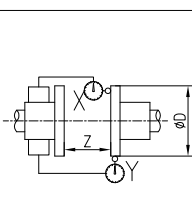
**ANCHOR BOLT**  
M30x700 (Supplied by DBP)

#### EARTHING BOSS

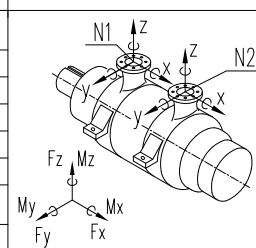
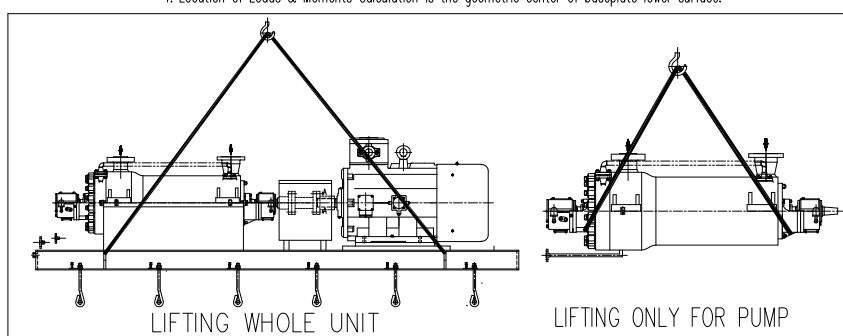


#### NOZZLES AND CONNECTIONS

No.	Description	Size & Rating	Remark
N1	Pump Suction	3", ASME B16.5 600LB RF	
N2	Pump Discharge	2", ASME B16.5 600LB RF	
N3	Pump Drain	3/4", ASME B16.5 600LB RF	With ball valve
N4	Cooling Water Inlet	1 1/2", ASME B16.5 150LB RF	With gate valve
N5	Cooling Water Outlet	1 1/2", ASME B16.5 150LB RF	With gate valve
N6	Baseplate Drain	NPT 1"	
N7-1/2	Seal Flush Vent	3/4", ASME B16.5 600LB RF	With gate valve
N8-1/2	Heat Exchanger Drain	1/2" NPTF	Plugged
N9-1/2	Heat Exchanger Drain (or Vent)	1/2" NPTF	Plugged
N10-1/2	Heat Exchanger Drain (or Vent)	1/2" NPTF	Plugged

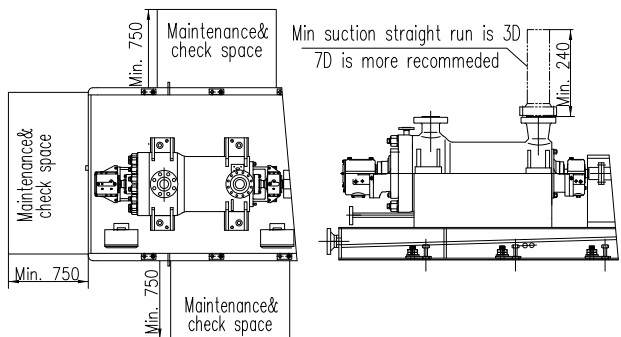


Size	X	Y	Z	Weight
D ≤ 200	≤ 0.05	≤ 0.05	≤ 0.1	PUMP : 2500 KG
200 < D ≤ 300	≤ 0.08	≤ 0.08	≤ 0.15	MOTOR : 877 KG
300 < D ≤ 400	≤ 0.10	≤ 0.10	≤ 0.2	SEAL SYSTEM : 40 KG
				BASEPLATE : 2200 KG
				OTHERS : 120 KG
				TOTAL WEIGHT : 5737 KG
				PUMP ROTOR : 95 KG



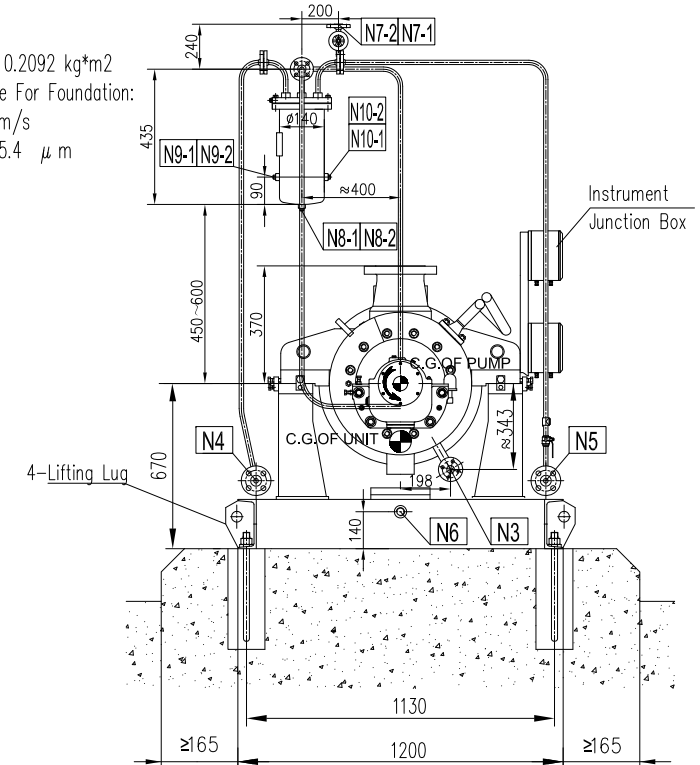
Discharge	Inch	Fx	Fy	Fz	Mx	My	Mz
2	±1420	±1160	±1780	±920	±460	±700	
3	±2140	±1780	±2660	±1900	±940	±1440	
Suction	Inch	Fx	Fy	Fz	Mx	My	Mz
DN							

Table 1  
Nozzle Allowable Force & Moment



Direction	Dynamic Loads		Static Loads		UNIT
	Positive(+)	Negative(-)	Positive(+)	Negative(-)	
FX	0	0	3560	3560	N
FY	147	147	2940	2940	N
FZ	147	147	-52330	61210	N
MX	390	-193	5878	5878	N*m
MY	110	110	24994	-94333	N*m
MZ	110	110	3899	3899	N*m

- Positive(+) means the same direction with graphic  
Negative(-) means opposite direction with graphic
- Nozzle Allowable Force & Moment please refer to Table 1
- Static Load and moment are calculated according to the weights of equipments listed in above WEIGHT TABLE.
- Location of Loads & Moments Calculation is the geometric center of baseplate lower surface.



PUMP INFORMATION	
Item No.:	01-460-P-1 A/B
Service:	HP BOILER FEED WATER PUMPS
Model:	APIFLO-MDG25-55X11
Seal Plan:	23+61
Motor:	90KW - 2950RPM
Capacity:	21 m <sup>3</sup> /h
Head:	615 m

- NOTE:
- In case of any discrepancies between documents General Arrangement Drawing is valid.
  - Exact location of seal system and instrument junction box will be finalized after pipeline work finished in DBP factory.

REFERENCE DRAWINGS	DWG NO.
SEAL SYSTEM DRAWING	BU-01-VD-311-MA-DRAW-4601-015
MOTOR OUTLINE DRAWING	BU-01-VD-311-EL-DRAW-4601-031
COUPLING DRAWING	BU-01-VD-311-MA-DRAW-4601-009
P&ID	BU-01-VD-311-MA-PID-4601-003

Code1	<input checked="" type="checkbox"/> (Approved) No comment and the document is released for Manufacturing
Code2	<input type="checkbox"/> (Approved with comments) Vendor shall correct, revise and resubmit the document The document is released for manufacturing
Code3	<input type="checkbox"/> (Commented) : Vendor shall correct / revise & resubmit document
Code4	<input type="checkbox"/> Not Acceptable quality (Reject)
The above checking result by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing	
EIED BUSHEHR PROJECT	DATE : 28 Nov. 2015 DEPT: MA Signature : M.S. CODE 1

6	6/11/15	ISSUE FOR APPROVAL	ANNE.T	TINO.L	RYAN.C	AAP
5	10/10/15	ISSUE FOR APPROVAL	ANNE.T	TINO.L	RYAN.C	AAP
4	12/9/15	ISSUE FOR APPROVAL	ANNE.T	TINO.L	RYAN.C	AAP
3	11/8/15	ISSUE FOR APPROVAL	ANNE.T	TINO.L	RYAN.C	AAP
REV.	DATE	PURPOSE OF ISSUE	PREP. BY	CHKD. BY	APPD. BY	AUTH. BY

Gas Sweetening, Sulphur Recovery, C2 Recovery,  
Fractionation and Inter Connection Pipeline  
Between Plants Project

P.O No.: 01-POR-RE-311-227 SCALE:

**DEEP BLUE PUMP** Energy Industries Engineering & Design Co.

DRAWING TITLE:  
**PUMP OUTLINE DRAWING**  
for HP BOILER FEED WATER PUMPS  
01-460-P-1 A/B  
DRAWING No.: BU-01-VD-311-MA-DRAW-4601-003 SHEET No. 1 OF 1