



GENERAL ARRANGEMENT DRAWING (GAD)

CLIENT	:	Air Products Manufacturing LLC
PROJECT NAME/NO.	:	WEP Renewables
CLIENT PO NO	:	4505605360
HMD DOCUMENT NO	:	HMD-4505605360-B01-07
CLIENT DOCUMENT NO	:	EN207122-SNDYN-9V3-00013
HMD PUMP NO	:	840055 & 840056
EQUIPMENT TAG NO	:	18-P-257 A/S

4	12/05/2023	ISSUE FOR REVIEW	AFS	AFS	ARM
3	02/05/2023	ISSUE FOR REVIEW	ARM	KCM	AFS
2	10/10/2022	ISSUE FOR REVIEW	ARM	BG	AFS
1	01/09/2022	ISSUE FOR REVIEW	ARM	KCM	AFS
0	16/05/2022	ISSUE FOR REVIEW	ARM	BG	AFS
REV	DATE	DESCRIPTION	PREPARED BY	CHECKED BY	APPROVED BY

NOTE:

 RESOLUTION SHEET				
Comment Number	Document Name: General Arrangement Drawing		Revision from which comment first appeared	Comment Status: Open\Closed - (Date Closed:)
	CLIENT COMMENT	HMD RESPONSE	Current Rev:	
1 -		GA Drawing has been updated as per recent Change Order to add orifice plates to the pumps.	N/A	Closed (02/05/2023)
1 -		GA Drawing has been updated to include orifice plate detials.	N/A	Closed (12/05/2023)



HMD Sealless Pumps

Hampden Park Industrial Estate,

Eastbourne,

East Sussex,

BN22 9AN, England.

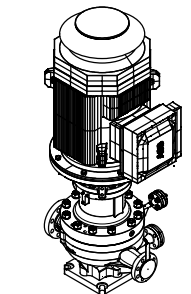
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USA (Toll free) 888 504 8304

HYDRAULIC	CONNECTIONS			
	ITEM	SIZE	DESCRIPTION	SERVICE
HPLMV801 3 X 2 X 7N	N1	3"	ASME B16.5 600lb RF	SUCTION
	N2	2"	ASME B16.5 600lb RF	DISCHARGE
	N3	1"	ASME B16.5 600lb RF	CASING DRAIN
	N4	2"	NPT	BASEPLATE DRAIN
	N5	1/2"	ASME B16.5 600lb RF	CONTAINMENT SHELL VENT
	N6	1/2"	ASME B16.5 300lb RF	C'HSO VENT
	N7	3/4"	ASME B16.5 300lb RF	C'HSO DRAIN

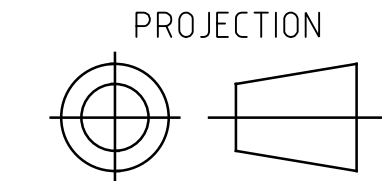
ALLOWABLE PIPING LOADS APPLIED TO NOZZLES (CONFORMS TO API 685)			
		2" 3"	
		2"	3"
SUCTION	FORCES (lbf)		
	FX	480	
	FY	600	
	FZ	400	
	FR	860	
	FX	320	
DISCHARGE	FY	400	
	FZ	260	
	FR	580	
	MOMENTS (ft.lbf)		
	MX	680	1400
	MY	340	700
BOTH	MZ	520	1060
	MR	920	1900



NOTE:
PUMP PRESSURE CASINGS ARE DESIGNED FOR TWICE THE VALUES STATED IN TABLE 4A (4B) OF API 685, 2nd EDITION. THIS IS NOT APPLICABLE TO PIPING DESIGN NOZZLE LOADS WHICH ARE AS PER TABLE 4A (4B). VALUES STATED ARE +/- ABOUT 0

ELECTRIC MOTOR DETAILS	
MANUFACTURER	BALDOR
RATING/FRAME	7.5 HP / 215 TC
ENCLOSURE	CL1 Div.2 Gr. A,B,C,D T3C
SUPPLY/SPEED	460 V / 3~ / 60 Hz / 1780 RPM

	DRY OPERATING	
	(lb)	
WEIGHTS		
PUMP	756	766
MOTOR	211	211
BASEPLATE	712	712
ANCILLARIES	22	22
TOTAL	1701	1711



PROJECTION

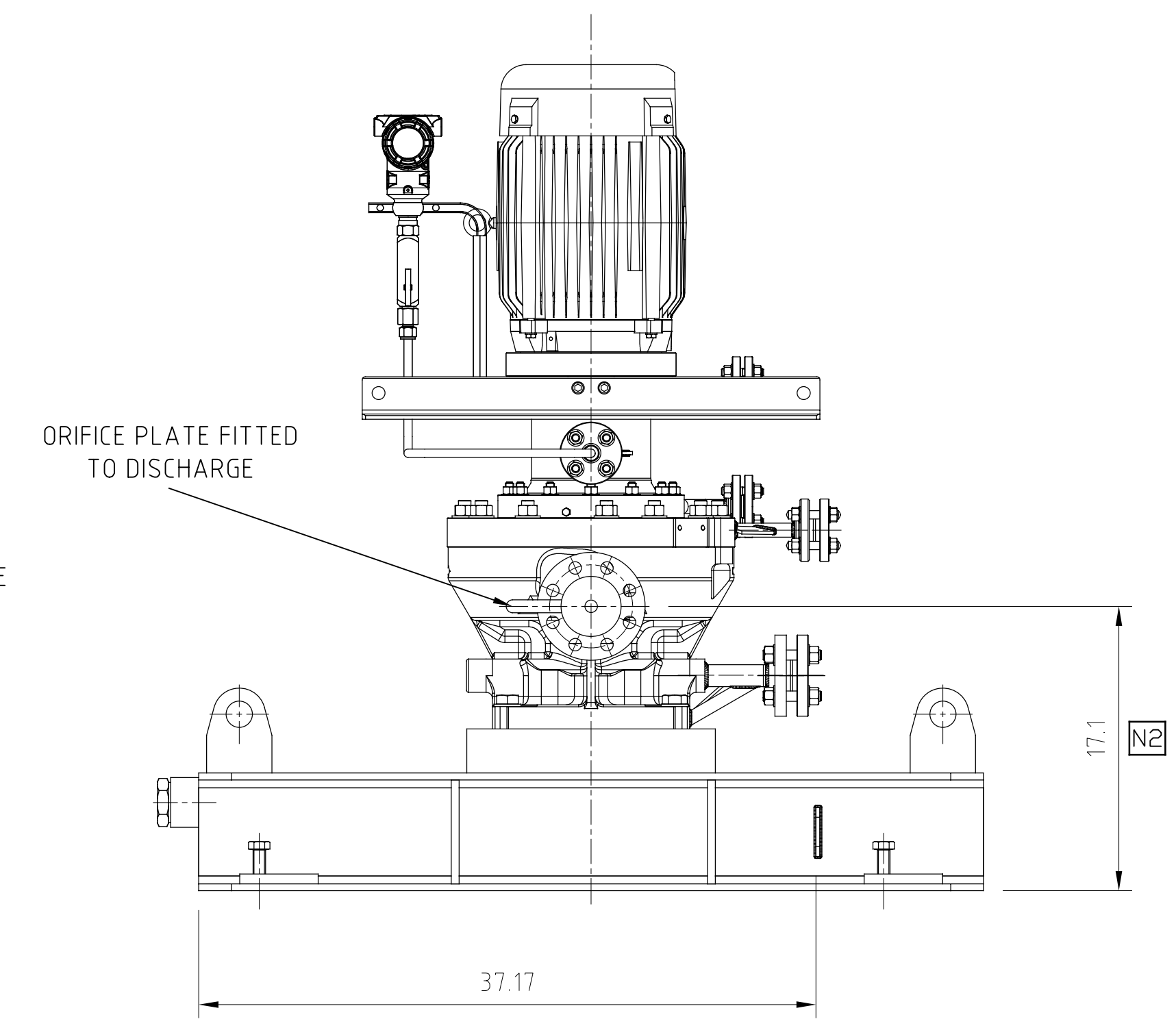
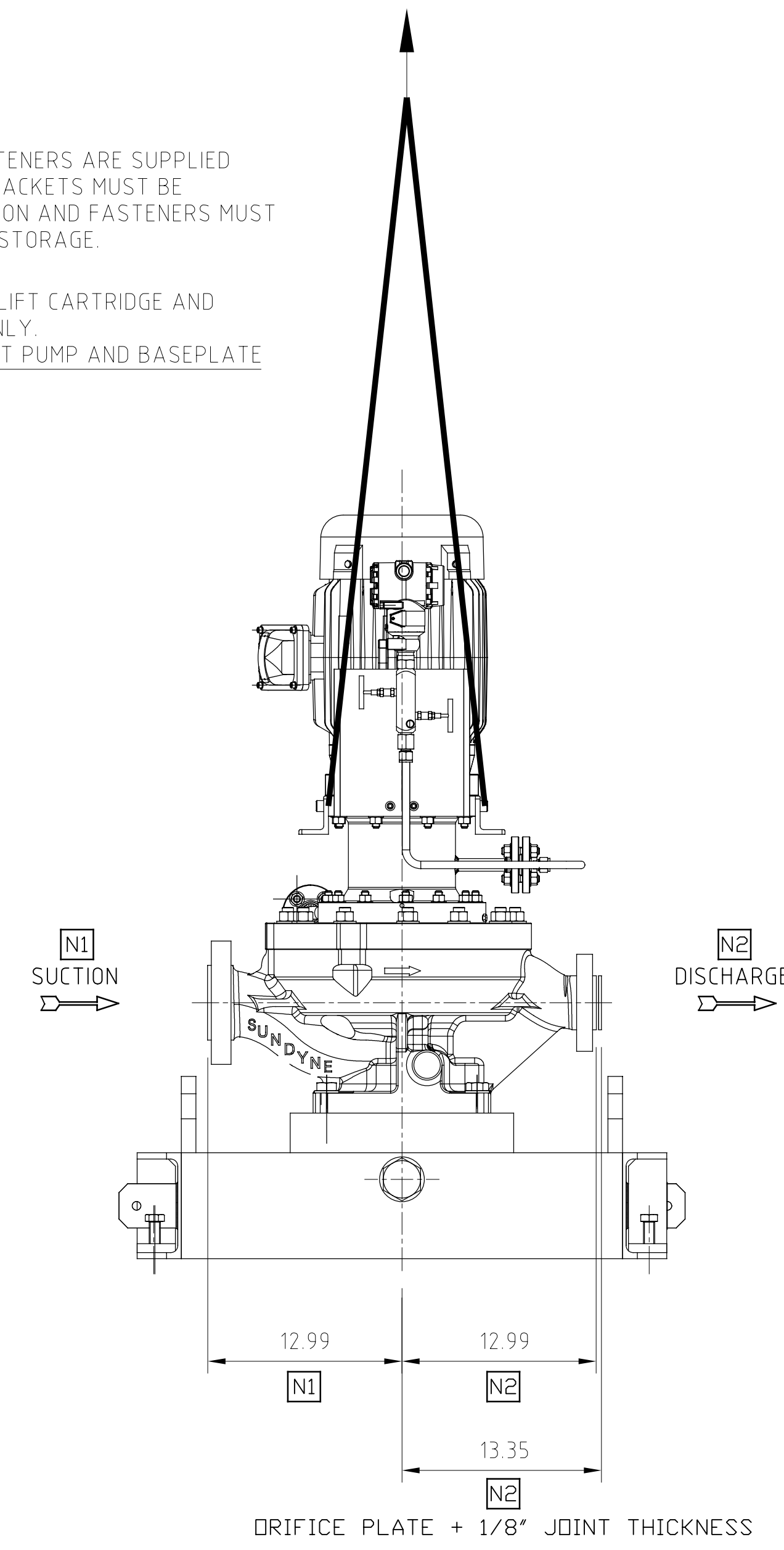
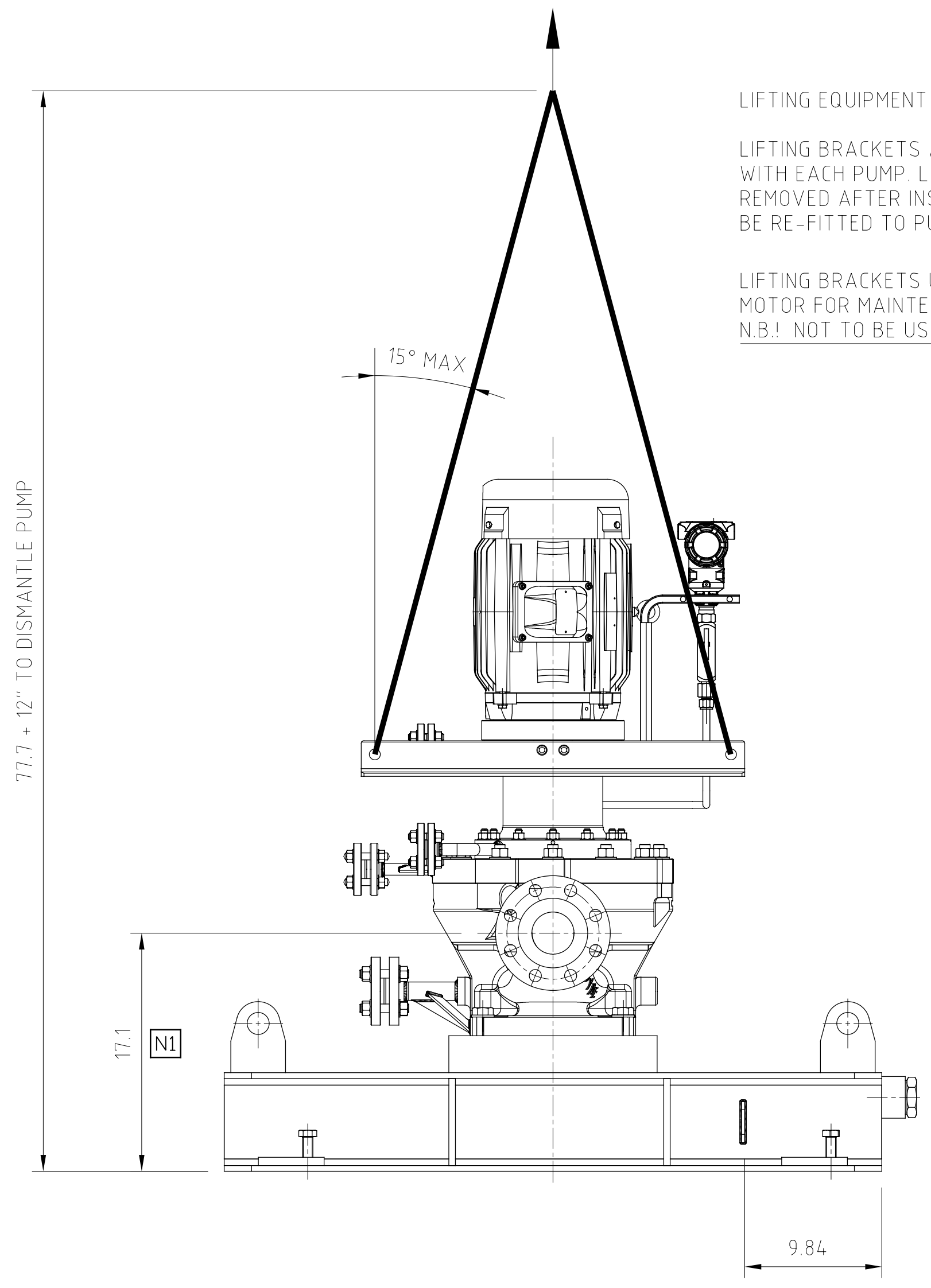
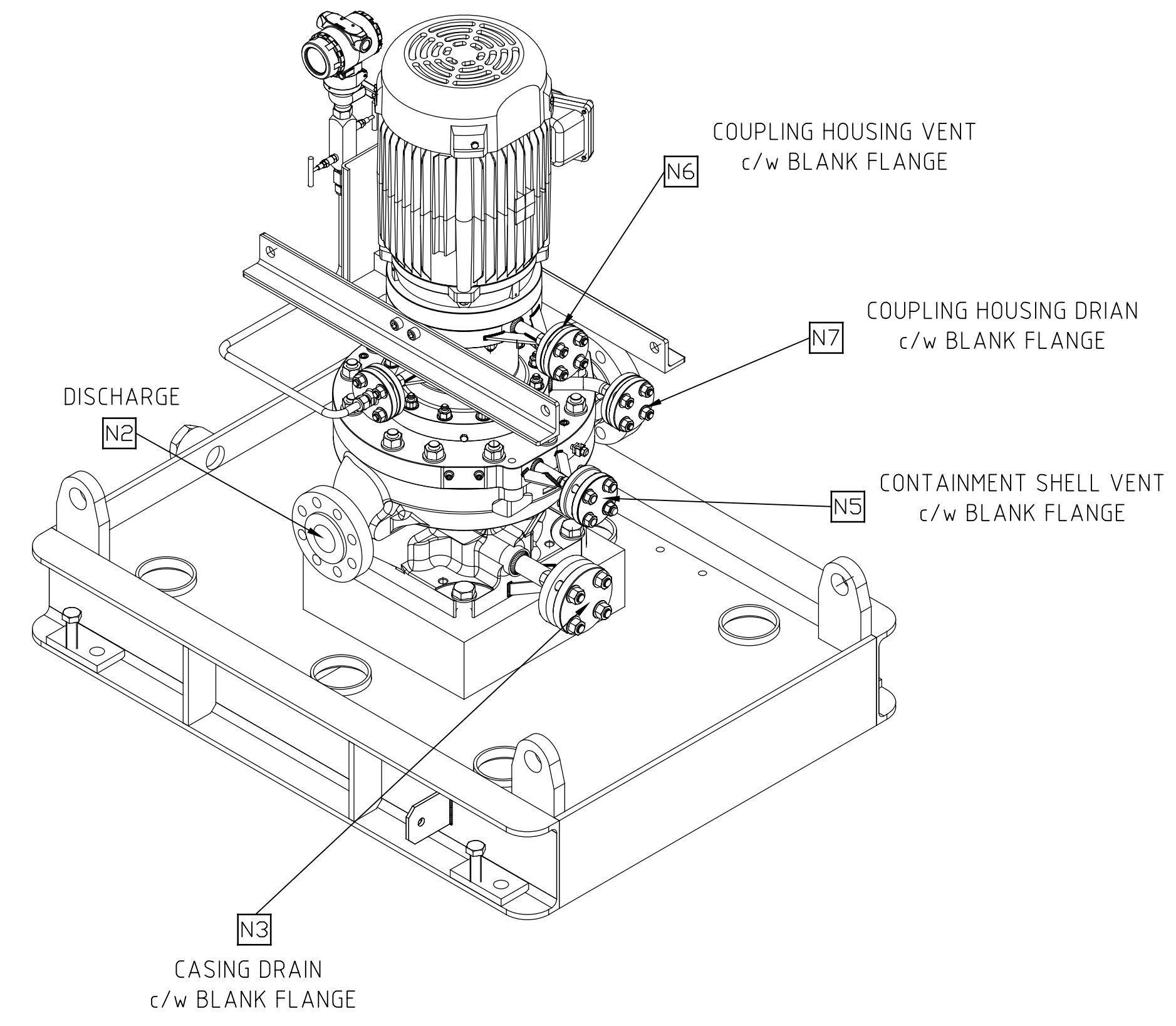
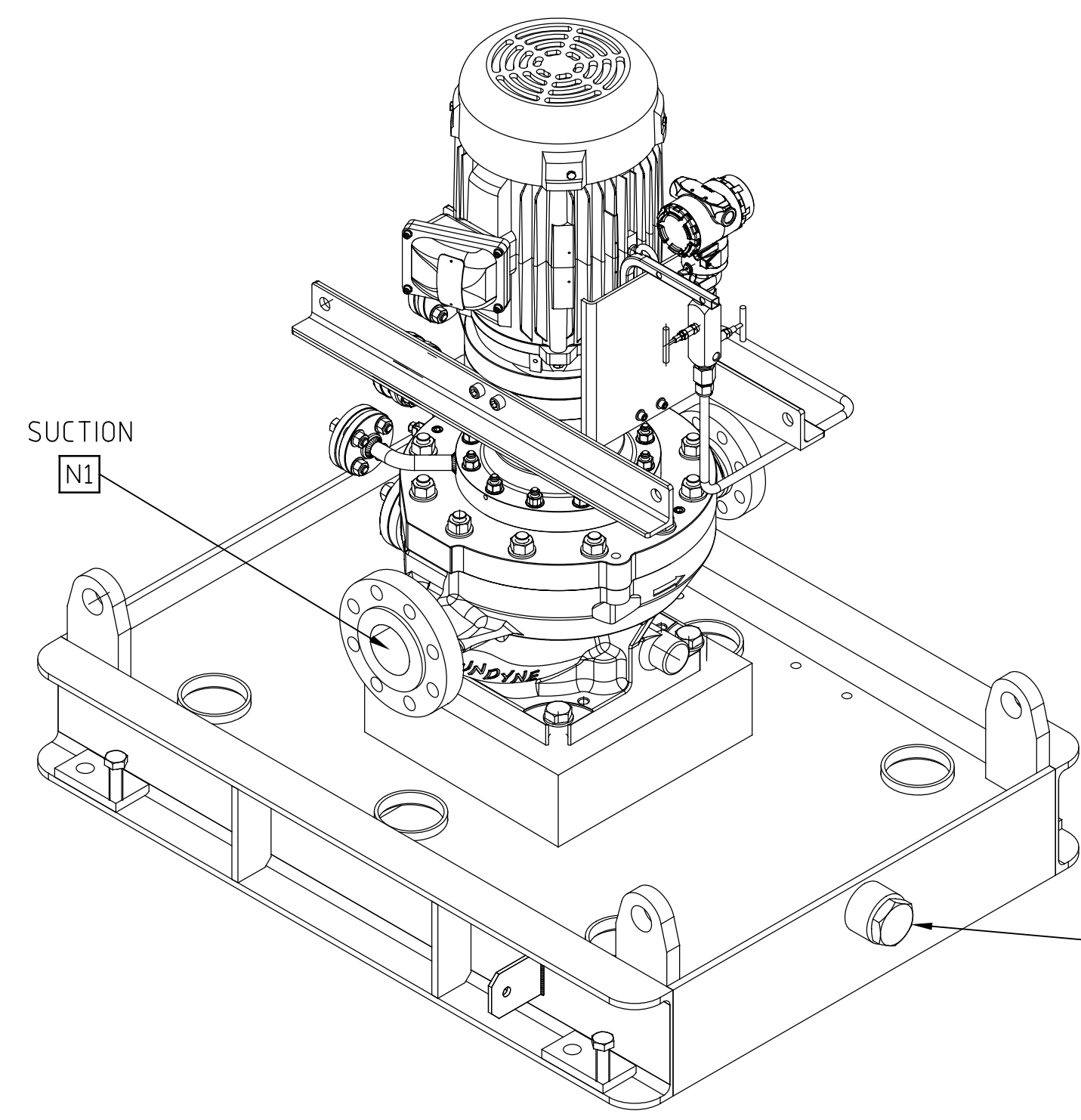
NOTES:	
NOTE 1	MAXIMUM MAINTENANCE WEIGHTS ARE THE SAME AS DRY.
NOTE 2	STRAIGHT LINE PIPING BEFORE THE SUCTION N1, SHOULD BE 5x PIPE DIAMETER STRAIGHT LINE PIPING AFTER THE DISCHARGE N2, SHOULD BE 3x PIPE DIAMETER
NOTE 3	MAINTENANCE SPACE AROUND PUMP SHOULD BE 18-36" ON A MINIMUM OF ONE SIDE AND SUFFICIENT SPACE TO REMOVE THE PUMP OR MOTOR TO THE SIDE HEIGHT ABOVE THE BASEPLATE SHALL ALLOW REMOVAL OF PUMP OR MOTOR WITH SITE LIFTING EQUIPMENT.
EQUIPMENT OWNER AIR PRODUCTS MANUFACTURING LLC	

CLIENT	WORLD ENERGY PARAMOUNT
ORDER NUMBER	4505605360
ITEM NUMBER	18-P-257
HMD PUMP NUMBER	840055

3	02/05/2023	ISSUE FOR REVIEW	AFS
2	10/10/2022	ISSUE FOR REVIEW	AFS
1	01/09/2022	ISSUE FOR REVIEW	AFS
ISS	DATE	CHANGE	AUTH

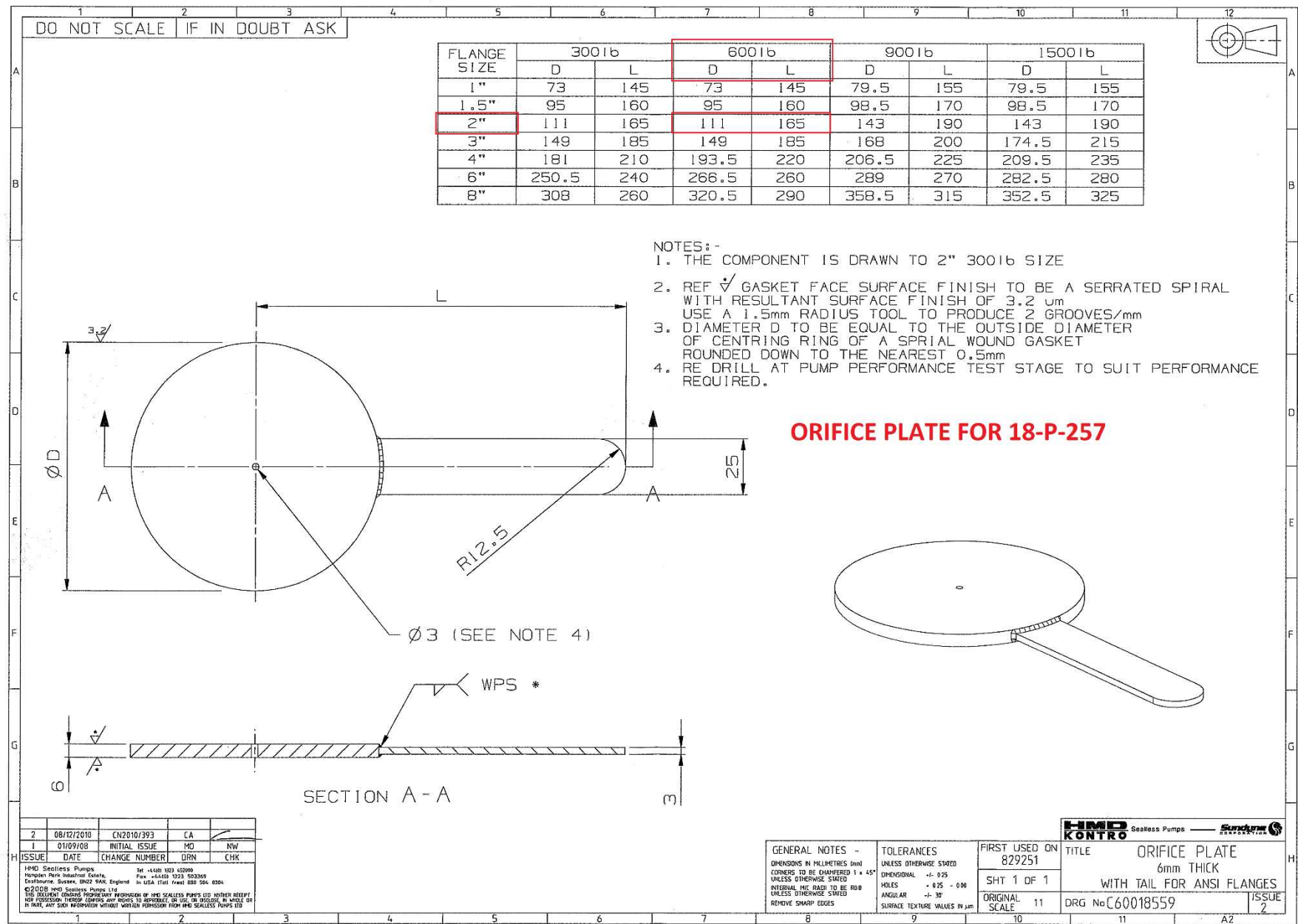
CONTRACTS ISSUE NUMBER				
INTERNAL USE ONLY				
04	21/04/23	CN2023/093	ARM	KCM
03	10/10/22	CN2022/242	ARM	BG
02	02/08/22	CN2022/184	ARM	KCM
01	12/05/22	INITIAL ISSUE	ARM	BG
ISS	DATE	CHANGE NUMBER	DRN	CHK
ENGINEERING ISSUE NUMBER				

GENERAL ARRANGEMENT DRAWING				
TITLE: LMV-801S DA1 ZL (40 Bar)				
SUBTITLE: SECONDARY CONTAINMENT, API DRAIN PAN, 215 TC MOTOR				
DRAWING NUMBER			X13750	
ISSUE:	04	REVISION:	SHEET No. 2 OF 2	



ALL DIMENSIONS IN INCHES U.O.S

Orifice Plate Details:





Addendum: General Arrangement Drawing

Document Reference No: EN207122-SNDYN-9V3-00013 / HMD-4505605360-B01-07

Tag No.: 18-P-257 A/S (840055-840056)

NACE compliance (MR-01-03 Not L or I)

Additional Information:

1. Service: Slop Oil Pump
2. Liquid Type /Name: Slop Oil
3. Operating Temperature: 100° F
4. Rated Flow: 6.7 gpm
5. Discharged Pressure: Rated 23.9 psig
6. Suction Pressure: Rated 4.9 psig / max 83 psig
7. Differential Pressure: 17.68 PSI
8. Differential Head: 45.6 ft Based on Performance test with orifice at discharge
9. Absorbed Power: 0.87 HP

Reference Documents:

1. Equipment Data sheet – EN207122-SNDYN-9V3-00122 / HMD-4505605360-C04-07
2. Cross Sectional Drawing & Parts List – EN207122-SNDYN-9V3-00012 / HMD-4505605360-D03-07
3. Coupling Assembly Drawing & Parts List - EN207122-SNDYN-9V3-00006 / HMD-4505605360-D03-01
4. Motor General Arrangements Drawing - EN207122-SNDYN-9V3-00158 / HMD-4505605360-B03-07
5. Motor Data Sheet - EN207122-SNDYN-9V3-000 / HMD-4505605360-C11-07