

GENERAL NOTES

PUMP INFORMATION	
Item No.:	121-P-104 A/B/C
Unit:	121
Service:	SULPHUR PLANTS BOILER FEED WATER PUMPS
Model:	API-0-P 50K-3-400
Seal Plan:	23-61
Motor:	75KW - 2955RPM

NOTE: 1. Valve for pump drain is ball valve.
2. The pump is self-vent.

REFERENCE DRAWINGS	DWG NO.
MOTOR OUTLINE DRAWING	WP-SP2021-0N-WA-121-P104-0014
COUPLING DRAWING	WP-SP2021-0N-WA-121-P104-0008
PUMP MECHANICAL SEAL DRAWING AND BOM	WP-SP2021-0N-WA-121-P104-0007

Code1	<input checked="" type="checkbox"/> (Approved) Vendor to submit "For Final" (No comment & release for manufacturing)
Code2	<input type="checkbox"/> (Approved with comments) Vendor shall correct / revise & submit it as "For Final" (Requested for manufacturing if change incorporated as indicated)
Code3	<input type="checkbox"/> (Commented) : Vendor shall correct / revise & resubmit it as "For Approval" of the date specified : (Corrected documents to be incorporated as indicated)
Code4	<input type="checkbox"/> 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

DATE:	22/07/2014
DEPT:	Machinery
SIGNATURE:	Salem

OIEC-SP 20421

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

Only for internal review

4	30-Jun-2014	FOR APPROVAL	DBP Thomas Ryan	Tino
3	06-Jul-2014	FOR APPROVAL	DBP Thomas Ryan	Tino
2	06-Jul-2014	FOR APPROVAL	DBP Thomas Ryan	Tino
1	19-Jul-2014	FOR APPROVAL	DBP Thomas Ryan	Tino
0	20-Jul-2014	FOR APPROVAL	DBP Thomas Ryan	Tino

REV. DATE DESCRIPTION

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

PROJECT No.: POGC-572-88-35 DDC CLASS: SCALE: 1:1

DEEP BLUE PUMP CO. OIEC

121-P-104 A/B/C SULPHUR PLANTS BOILER FEED WATER PUMPS GENERAL ARRANGEMENT DRAWING

DRAWING No. WP-SP2021-0N-WA-121-P104-0000 SHEET No. 1 OF 1 REV. 4

PROCESS CONNECTIONS

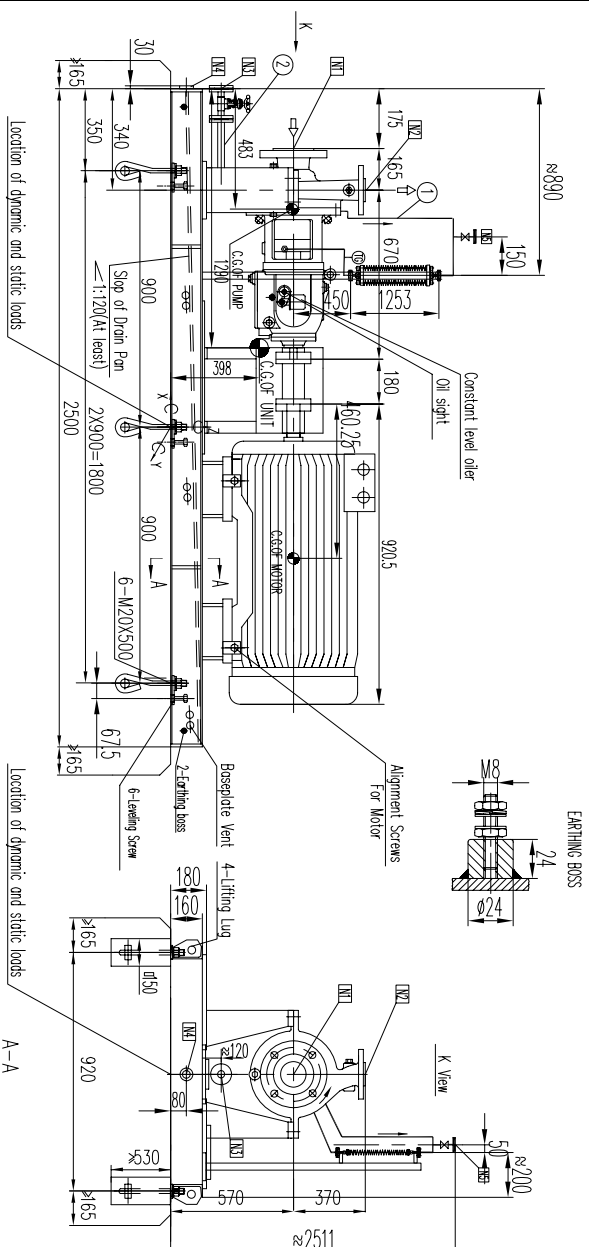
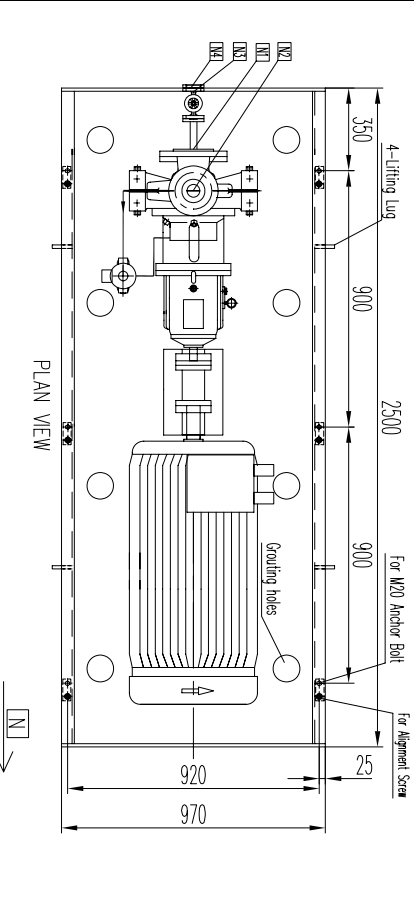
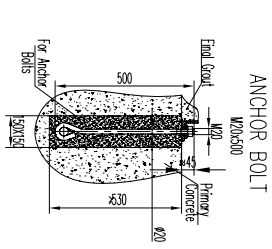
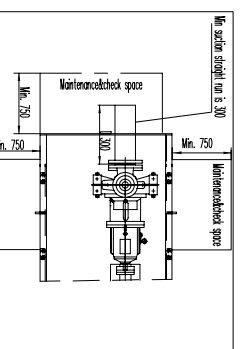
Code	Size & Rating	Description	Remark
N1	4"-ANSI 300Lb-RF	Suction	
N2	2"-ANSI 300Lb-RF	Discharge	
N3	3/4"-ANSI 300Lb-RF	Pump Drain	
N4	62"	Baseplate Drain	
N5	1/2"-ANSI 300Lb-RF	Baseplate Vent	

Pipeline Description
① Pn 13 Flushing Pipe
② Pump Drain Pipe

WEIGHT TABLE

PUMP	: 387	KG
MOTOR	: 625	KG
SEAL SYSTEM	: 45	KG
BASEPLATE	: 595	KG
ROTOR	: 46.4	KG
OTHERS	: 24	KG
TOTAL WEIGHT	: 1676	KG

Maximum Allowable Amplitude For Foundation Velocity(Peak)	: 4	mm/s
Displacement	: 25.4	mm




DS200	X	50.05
Y	50.05	
Z	74.01	
200x300	X	50.08
Y	50.08	
Z	74.015	
300x400	X	50.10
Y	50.10	
Z	74.02	

MAX. ALLOWABLE MISALIGNMENT(mm)

Center of Gravity List	X	76.7
PUMP	Y	0
MOTOR	Z	570
UNIT	X	40
Y	0	
Z	388	

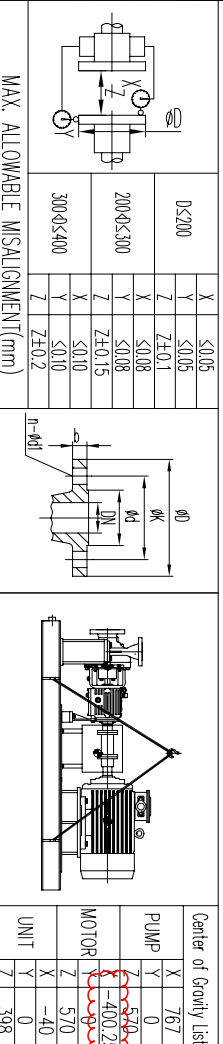
3	06 JUN 2014	FOR APPROVAL	DEP Thomas	Ryan	Tino	
2	06 MAY 2014	FOR APPROVAL	DEP Thomas	Ryan	Tino	
1	19 MAR 2014	FOR APPROVAL	DEP Thomas	Ryan	Tino	
0	20 JAN 2014	FOR APPROVAL	DEP Thomas	Ryan	Tino	
REV.	DATE	DESCRIPTION	ORIG. PREP.	CM TA	APR'D	Contractor APR'D

SOUTH PARS GAS FIELD DEVELOPMENT-
PHASES 2 & 21, ASSHUTER-IRAN
ONSHORE FACILITIES

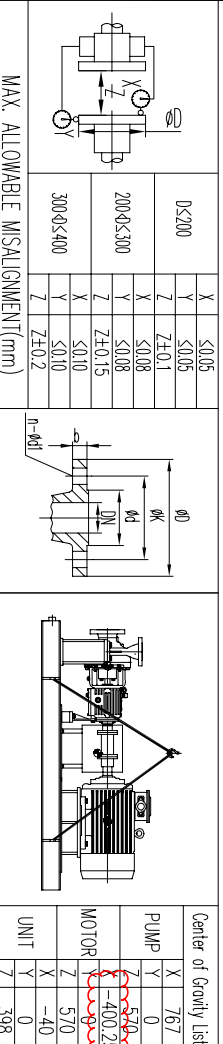


NIOC
NATIONAL IRANIAN OIL COMPANY

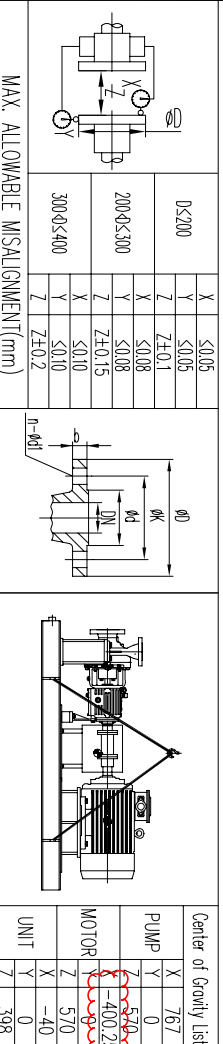
Rotation: clockwise viewed from the drive-end			
Static loading calculation results		Dynamic loading calculation results	
FXStatic=±	4980 N	FXdynamic=±	0 N
FYStatic=±	4000 N	FYdynamic=±	77 N
FZStatic=±	-11861/20061 N	FZdynamic=±	77 N
MXStatic=±	6289 N*m	MXdynamic=±	93/-5 N*m
MYStatic=±	11132/6644 N*m	MYdynamic=±	63 N*m



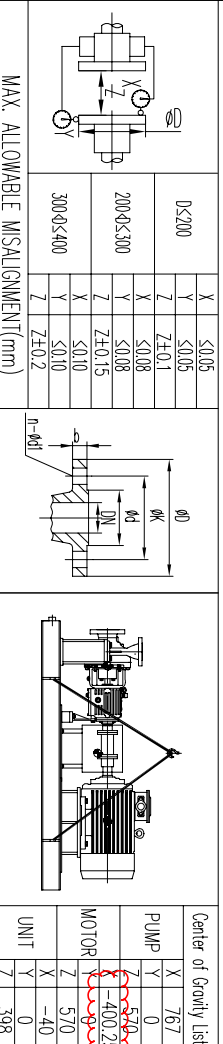
DISCHARGE	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



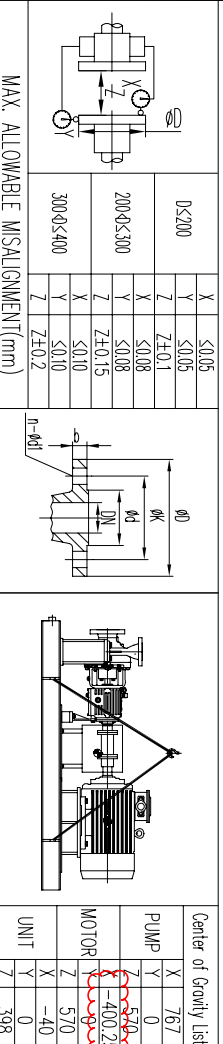
SUCTION	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



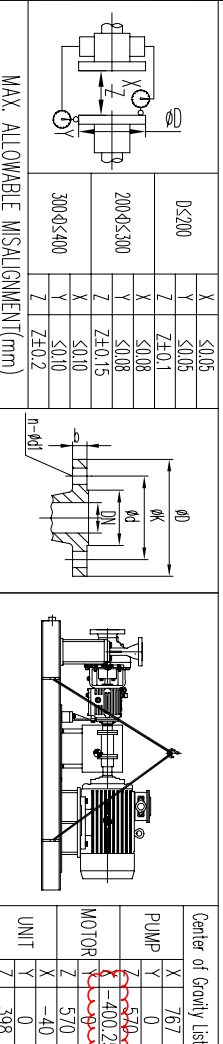
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



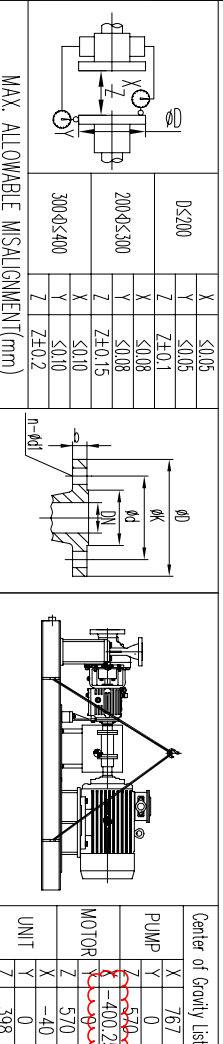
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



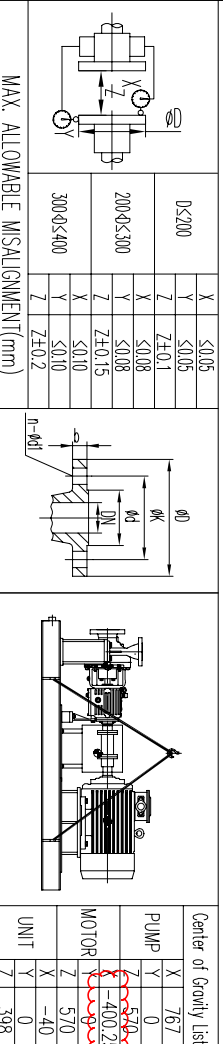
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



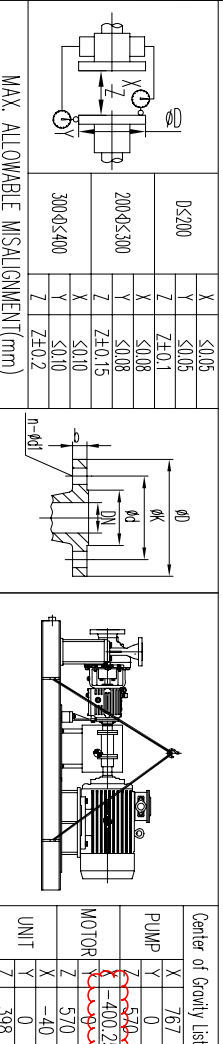
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



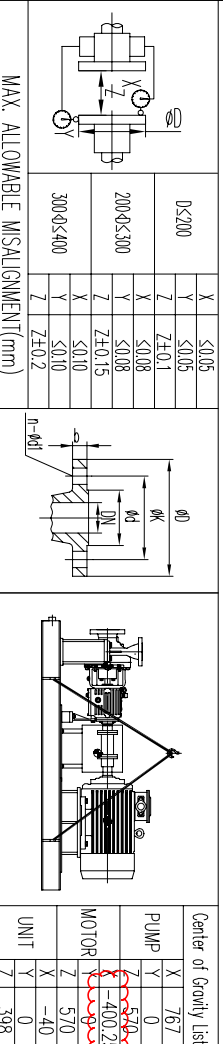
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



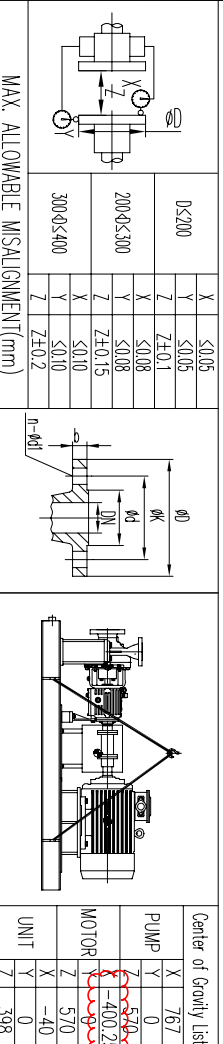
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



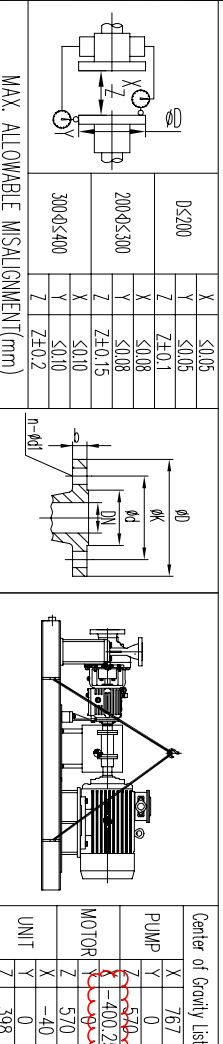
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



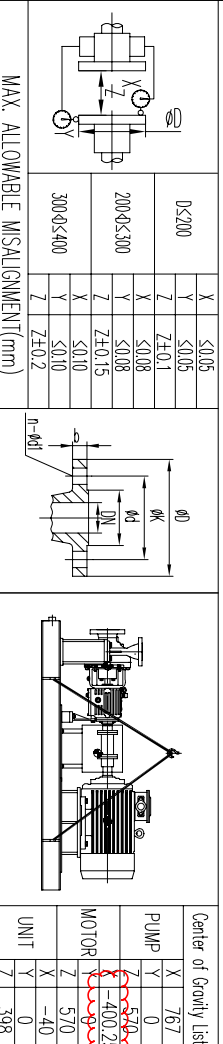
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



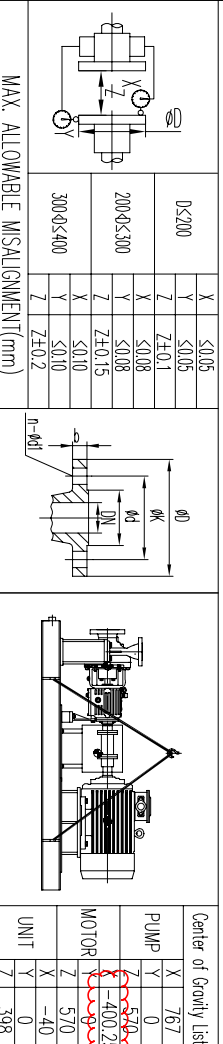
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



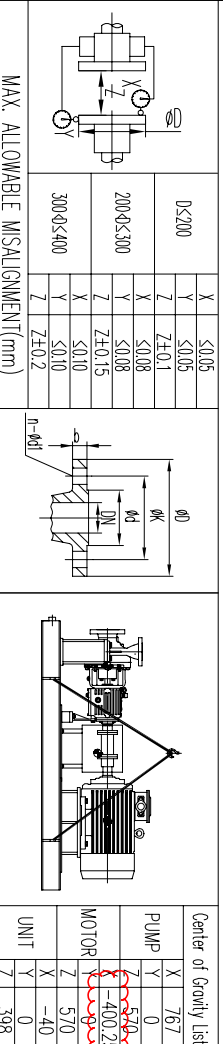
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



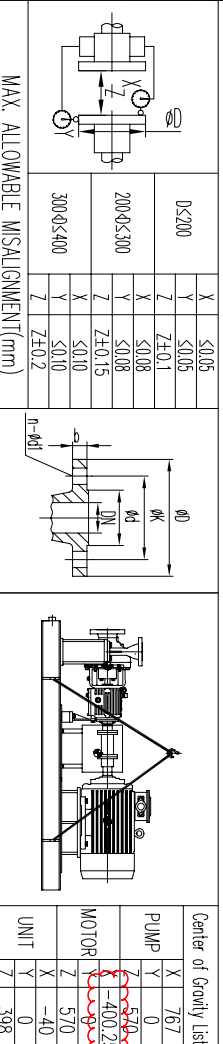
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



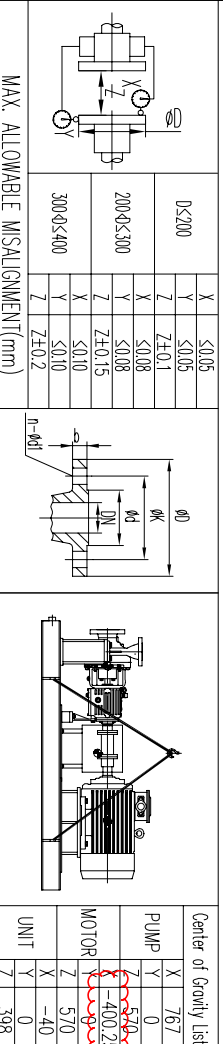
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



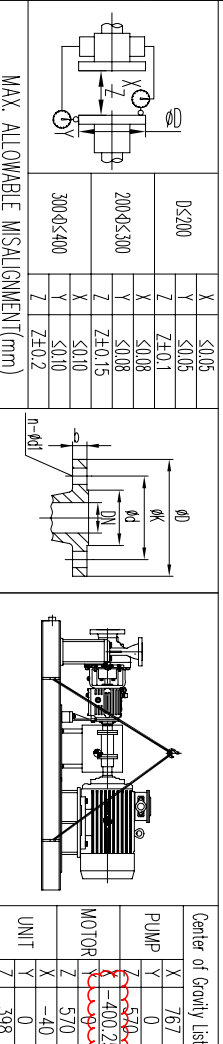
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



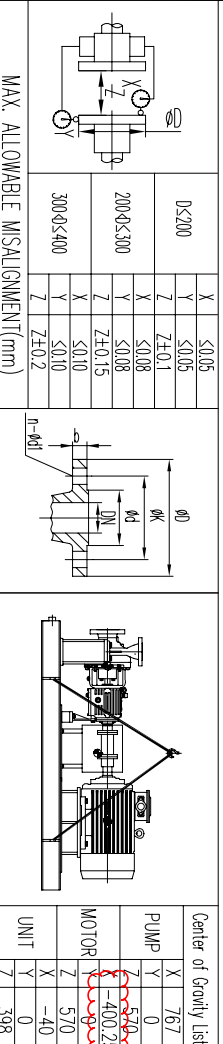
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



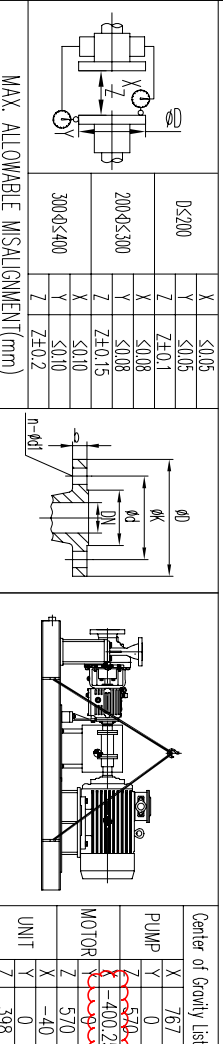
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



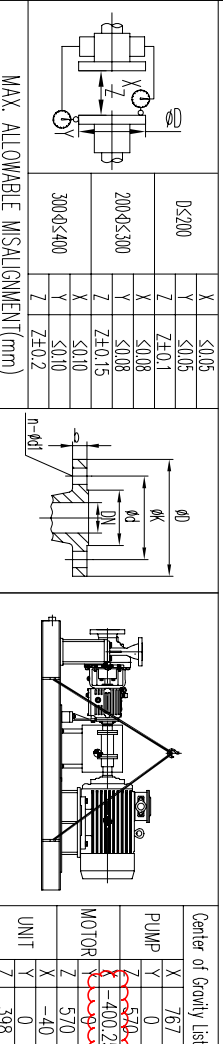
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



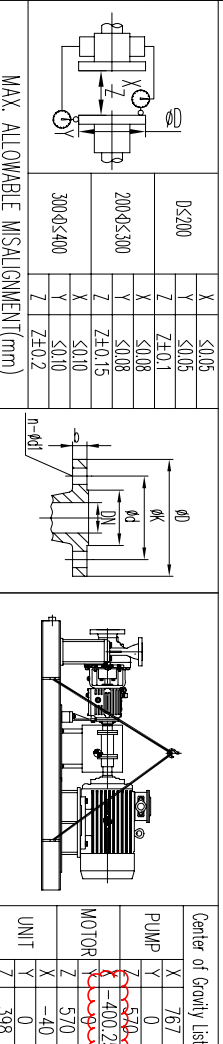
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



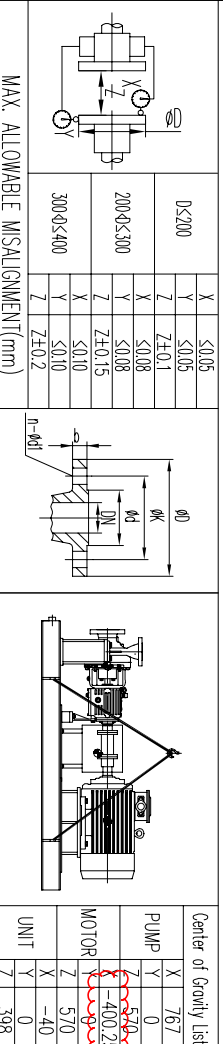
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



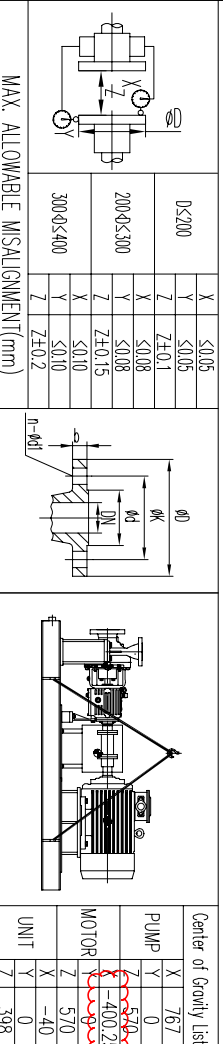
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



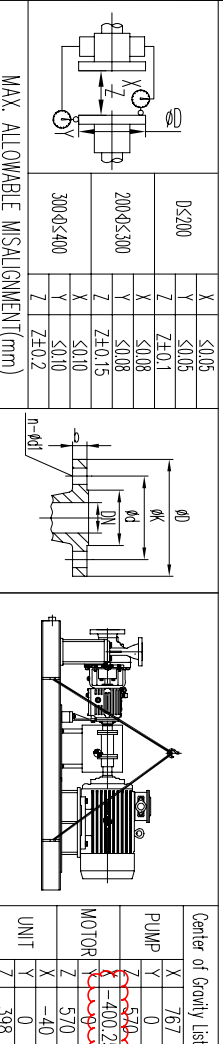
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



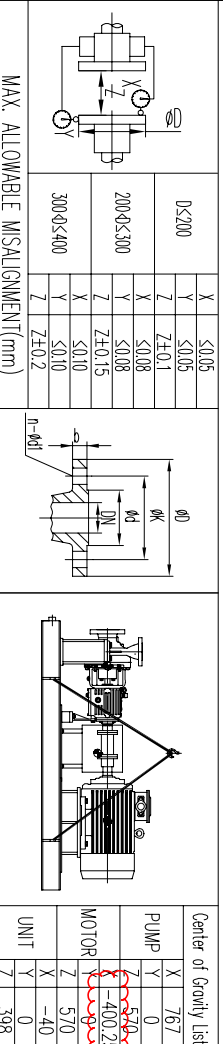
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



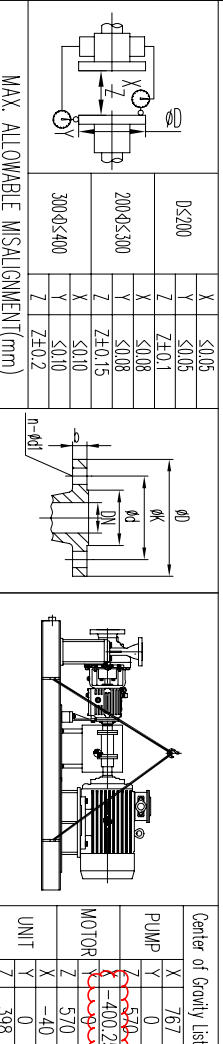
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



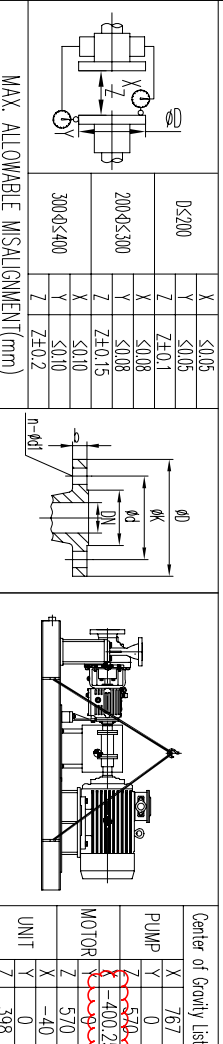
Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320



Flange Size	DN	Force (N)	Moment (Nm)
INCH	Force (N)	Force (N)	Moment (Nm)
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320
4"	±3560	±2840	±2320