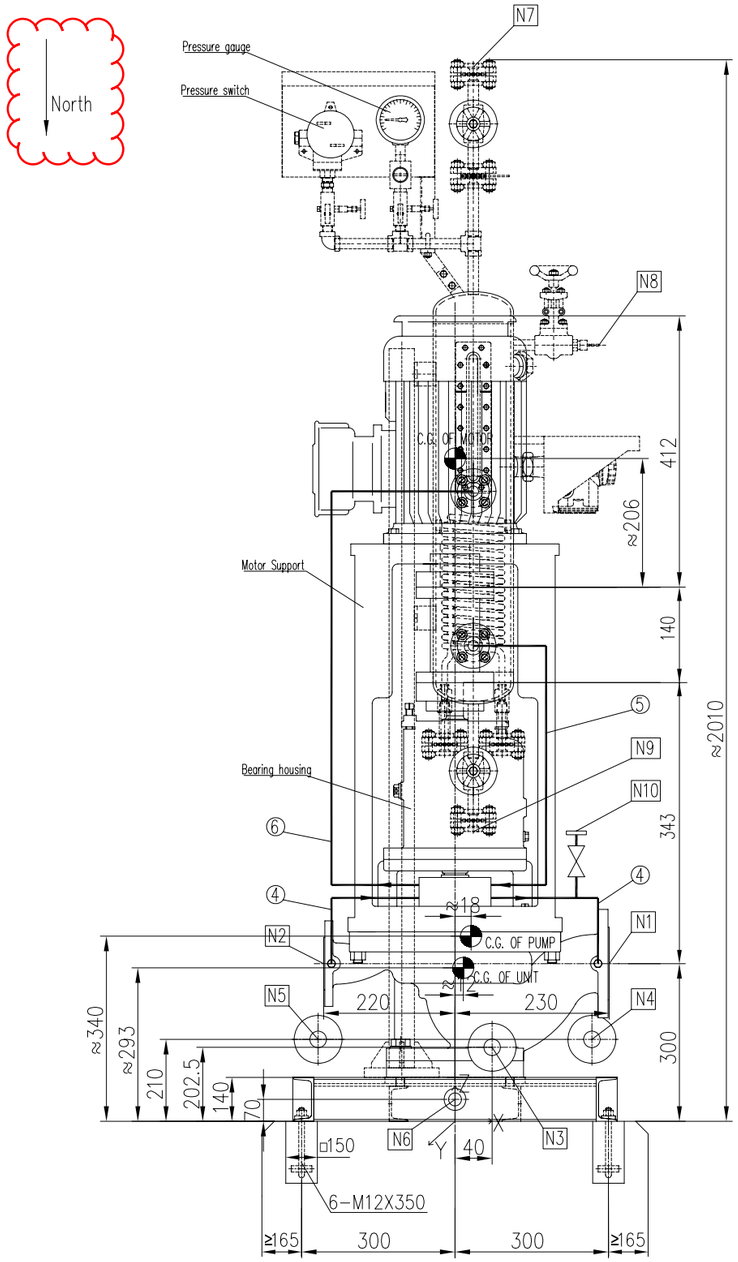
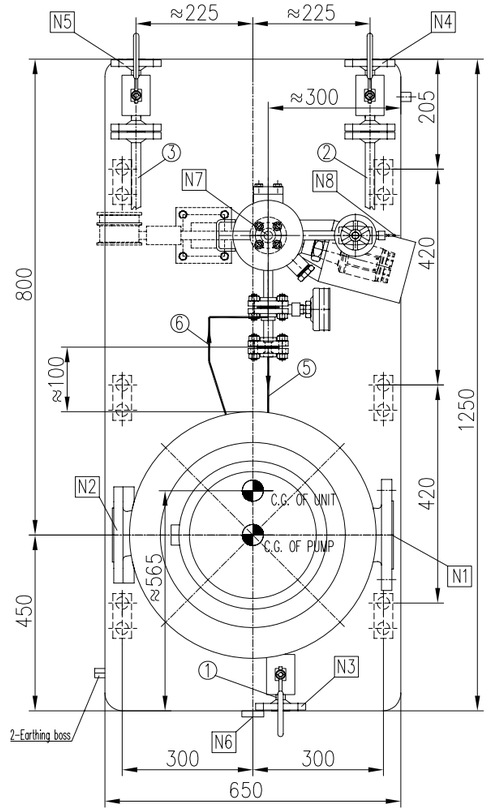




PROCESS CONNECTIONS			
Code	Description	Size & Rating	Remark
N1	Pump Suction Flange	1 1/2", ASME B16.5 150LB RF	
N2	Pump Discharge Flange	1", ASME B16.5 150LB RF	
N3	Pump Drain Flange	3/4", ASME B16.5 150LB RF	Flange with ball valve
N4	Cooling Water Inlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N5	Cooling Water Outlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N6	Baseplate Drain	NPT 2"	
N7	Plan52 Vent	1/2", ASME B16.5 600LB RF	Flange with gate valve
N8	Plan52 Filling	1/2" Quick Fittings	
N9	Plan52 Drain	1/2", ASME B16.5 600LB RF	Flange with gate valve
N10	Plan14 Vent	3/4", ASME B16.5 150LB RF	Flange with ball valve

Pipeline Description	
①	Pump Drain
②	Main cooling water inlet
③	Main cooling water outlet
④	Plan14 Flushing pipeline
⑤	Plan52 Flushing pipeline (to seal chamber)
⑥	Plan52 Flushing pipeline (from seal chamber)

PUMP INFORMATION	
Item No:	05-435-P-2
Service:	METHANOL TRANSFER PUMP
Model:	ANS 40X25X160-G
Seal Plan:	14+52
Motor:	2.2KW-2885RPM

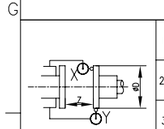
REFERENCE DRAWING	DWG NO.
Seal System Drawing	BU-05-VD-303-MA-DRW-4352-056
Motor outline Drawing	BU-05-VD-303-EL-DRW-4352-089
Coupling Drawing	BU-05-VD-303-MA-DRW-4352-033
Pump data sheet	BU-05-VD-303-MA-DSH-4352-009

Note:
1. Rotation: Clockwise viewed from drive-end.
2. Vibration Level complies to ISO5199 requirement, table 1

Code1	☐	(Approved) No comment and the document is released for Manufacturing	
Code2	☐	(Approved with comments) Vendor shall correct, revise and resubmit the document The document is released for manufacturing	
Code3	☐	(Commented) : Vendor shall correct / revise & resubmit document	
Code4	☐	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 : DEPT: Signature :	

WEIGHT TABLE		
PUMP	70	KG
MOTOR	45.6	KG
SEAL SYSTEM	70	KG
BASEPLATE	220	KG
OTHERS	50	KG
TOTAL WEIGHT	456	KG
ROTOR WEIGHT	3.97	KG
MAX. MAINTENANCE WEIGHT	39	KG

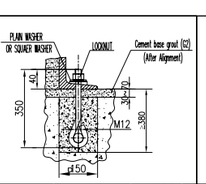
Remark:
1. Moment of inertia: 0.00745 kg.m2



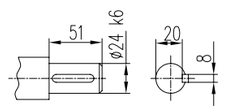
D≤200	X	≤0.05
	Y	≤0.05
	Z	7±0.1
200<D≤300	X	≤0.08
	Y	≤0.08
	Z	7±0.15
300<D≤400	X	≤0.10
	Y	≤0.10
	Z	7±0.2

MAX. ALLOWABLE MISALIGNMENT(mm)

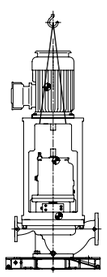
Anchor Bolt
M12x350
Anchor bolts will be supplied by DBP

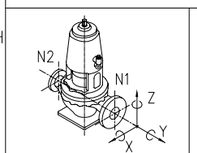


PUMP END

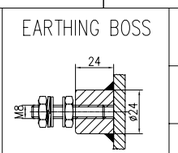


LIFTING





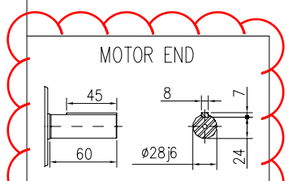
EARTHING BOSS



DISCHARGE	1"	±1420	±1780	±1160	±920	±460	±700
	inch	Fx	Fy	Fz	Mx	My	Mz
	DN	Force (N)			Moment(Nm)		
SUCTION	1 1/2"	±1420	±1780	±1160	±920	±460	±700
	inch	Fx	Fy	Fz	Mx	My	Mz
	DN	Force (N)			Moment(Nm)		

Nozzle Allowable Force & Moment

MOTOR END



Static loading calculation results		
FXStatic=±	2840	N
FYStatic=±	3560	N
FZStatic=±	-3005/7645	N
MXStatic=±	3422/3438	N*m
MYStatic=±	2647/1710	N*m
MZStatic=±	2662	N*m

Dynamic loading calculation results		
FXdynamic=±	13.8	N
FYdynamic=±	13.8	N
FZdynamic=±	0	N
MXdynamic=±	8	N*m
MYdynamic=±	8	N*m
MZdynamic=±	9.3/7.1	N*m

REV.	DATE	PURPOSE OF ISSUE	PREP. BY	CHKD. BY	APPD. BY	AUTH. BY
03	26/08/15	FOR APPROVAL	Will	Andy	Tino	AAP
02	20/07/15	FOR APPROVAL	Will	Andy	Tino	AAP
01	12/06/15	FOR APPROVAL	Will	Andy	Tino	AAP
00	15/02/15	FOR APPROVAL	Will	Andy	Tino	AAP

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

BUSHEHR PETROCHEMICAL COMPANY

P.O No.: A315.753AME

SCALE:

DEEP BLUE PUMP

EIED Energy Industries Engineering & Design Co.

DRAWING TITLE:

Pump Outline Drawing for METHANOL TRANSFER PUMP

05-435-P-2

DRAWING No.: BU-05-VD-303-MA-DRW-4352-009

SHEET No. 1 OF 1