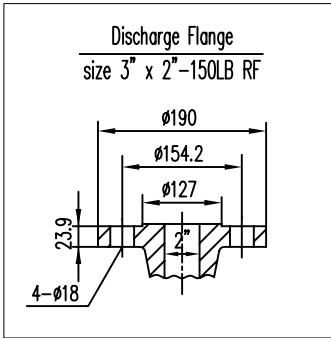


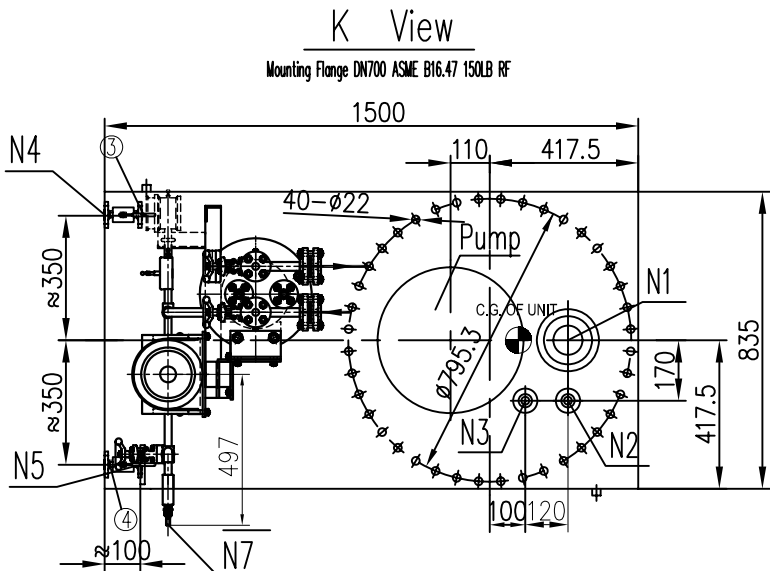
PROCESS CONNECTIONS			
Code	Description	Size & Rating	Remark
N1	Pump Discharge Flange	3"x2", ASME B16.5 150LB RF	
N2	Steam Inlet	1/2", ASME B16.5 150LB RF	Flange with ball valve
N3	Steam Outlet	1/2", ASME B16.5 150LB RF	Flange with ball valve
N4	Cooling Water Inlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N5	Cooling Water Outlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N6	Plan 53B vent	1/2", ASME B16.5 1500LB RF	Flange with gate valve
N7	Plan 53B filling	1/2" NPT, Quick Fittings	
N8	Plan 53B drain	1/2", ASME B16.5 1500LB RF	Flange with gate valve

Pipeline Description	
①	Steam flushing inlet
②	Steam flushing outlet
③	Main cooling water inlet
④	Main cooling water outlet
⑤	Plan53B Flushing pipeline (to seal chamber)
⑥	Plan53B Flushing pipeline (from seal chamber)

Static loading calculation results			Dynamic loading calculation results		
FXStatic=±	710	N	FXdynamic=±	124	N
FYStatic=±	890	N	FYdynamic=±	124	N
FZStatic=±	-13085/14245	N	FZdynamic=±	0	N
MXStatic=±	861	N*m	MXdynamic=±	288	N*m
MYStatic=±	361	N*m	MYdynamic=±	288	N*m
MZStatic=±	584	N*m	MZdynamic=±	24/-24	N*m



WEIGHT TABLE	
PUMP	850 KG
MOTOR	135 KG
SEAL SYSTEM	336 KG
BASEPLATE	328 KG
OTHERS	50 KG
TOTAL WEIGHT	1699 KG
ROTOR WEIGHT	80 KG
MAX. MAINTENANCE WEIGHT	328 KG




Remark:
1. Moment of inertia: 0.042 kg.m2

PUMP INFORMATION	
Item No:	01-140A/B-P-1 A/B
Service:	SULPHUR TRANSFER PUMPS
Model:	LGJ 25-200-A-14
Seal Plan:	61+53B
Motor:	7.5KW-2955RPM
Motor Critical Speed:	6700RPM

REFERENCE DRAWING	DWG NO.
Seal System Drawing	BU-01-VD-307-MA-DRW-1401-074
Motor outline Drawing	BU-01-VD-307-MA-DRW-1401-106
Coupling Drawing	BU-01-VD-307-MA-OWN-1401-042
Pump Data Sheet	BU-01-VD-307-MA-DSH-1401-010

Note: 1. Pump rotation direction: CW viewed from the drive-end.
2. Pit item number is 01-140-TK-1 A/B.
3. Vibration Level complies to API610 requirement, table 8 and table 9.
4. Bolt&nut and related gasket for mounting plate will be provided by DBP.

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	
<div> EIED BUSHEHR PROJECT</div> <div>DATE: 28 November 2015 DEPT: M.F. Sign: CODE 1</div>	

04	7/11/15	FOR APPROVAL	Eric	Andy	Tino	AAP
03	13/10/15	FOR APPROVAL	Eric	Andy	Tino	AAP
02	29/08/15	FOR APPROVAL	Eric	Andy	Tino	AAP
01	09/07/15	FOR APPROVAL	Eric	Andy	Tino	AAP
00	26/03/15	FOR APPROVAL	Eric	Andy	Tino	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



BUSHEHR PETROCHEMICAL COMPANY

P.O No.: A315.760AME

SCALE:

DEEP BLUE PUMP

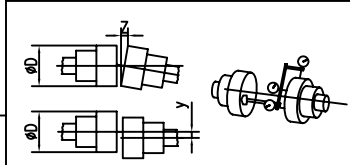


Energy Industries
Engineering & Design Co.

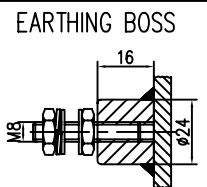
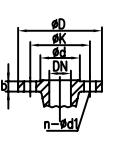
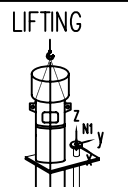
DRAWING TITLE:
Pump Outline Drawing for SULPHUR TRANSFER PUMPS
01-140A/B-P-1 A/B

DRAWING No.: BU-01-VD-307-MA-DRW-1401-010

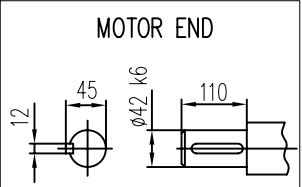
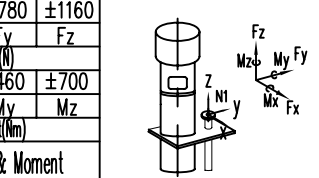
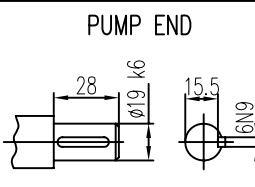
SHEET No. 1 OF 1



Outer Diameter Coupling (D)	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
MAX. ALLOWABLE MISALIGNMENT(mm)		



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



Pump shaft information			
Name	Upper Shaft	Middle Shaft	Lower Shaft
Length(mm)	2100	2200	1424
Quantity	1	1	1