

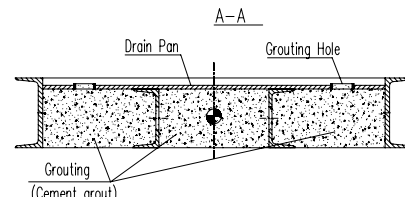
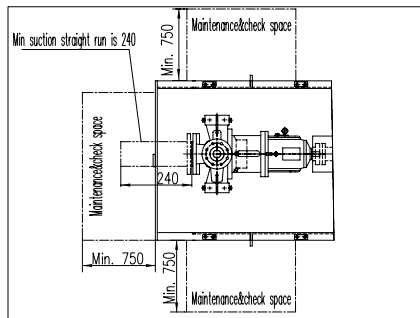
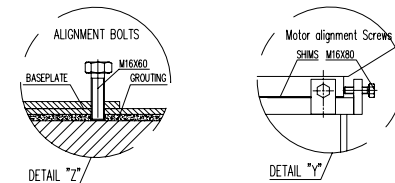
PROCESS CONNECTIONS			
Code	Description	Size & Rating	Remark
N1	Pump Suction Flange	3", ASME B16.5 300LB RF	
N2	Pump Discharge Flange	1 1/2", ASME B16.5 300LB RF	
N3	Pump Drain Flange	3/4", ASME B16.5 300LB RF	Flange with ball valve
N4	Baseplate Drain	NPT 2"	
N5	Cooling Water Inlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
N6	Cooling Water Outlet Flange	1", ASME B16.5 150LB RF	Flange with ball valve
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

Pipeline Description	
①	Pump Drain
②	Main cooling water inlet
③	Main cooling water outlet
④	Plan11 Flushing pipeline
⑤	Plan52 Flushing pipeline (to seal chamber)
⑥	Plan52 Flushing pipeline (from seal chamber)

PUMP INFORMATION	
Item No:	05-405-P-8A/B
Service:	OFF-SPEC LPG TRANSFER PUMPS
Model:	EAP 40K3-400-9
Seal Plan:	11-52
Motor:	30KW-2960RPM

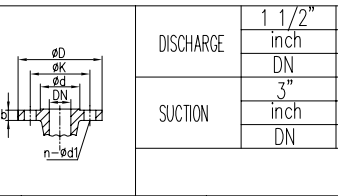
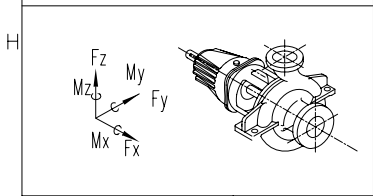
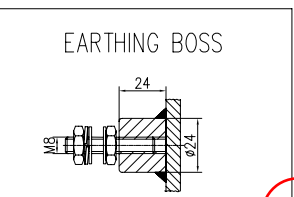
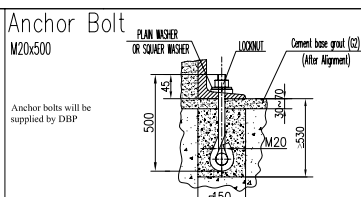
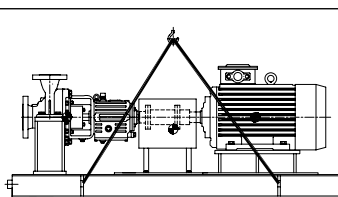
REFERENCE DRAWING	DWG NO.
Seal System Drawing	BU-05-VD-303-MA-DRW-4058-054
Motor outline Drawing	BU-05-VD-303-EL-DRW-4058-086
Coupling Drawing	BU-05-VD-303-MA-DRW-4058-030
Pump data sheet	BU-05-VD-303-MA-DSH-4058-006

Note:
1. The pump is self vent.
2. Rotation: Clockwise viewed from drive-end.
3. Vibration Level complies to API610 requirement, table 8 and table 9.

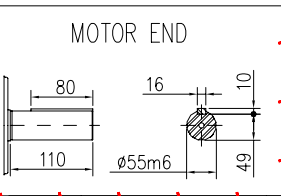
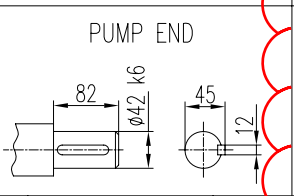


Remark:
1. Moment of inertia: 0.54 kg.m2

Dis	200	200 < Dis < 300	300 < Dis < 400
X	≤ 0.05	≤ 0.05	≤ 0.05
Y	≤ 0.05	≤ 0.05	≤ 0.05
Z	≤ 0.05	≤ 0.05	≤ 0.05
X	≤ 0.08	≤ 0.08	≤ 0.08
Y	≤ 0.08	≤ 0.08	≤ 0.08
Z	≤ 0.15	≤ 0.15	≤ 0.15
X	≤ 0.10	≤ 0.10	≤ 0.10
Y	≤ 0.10	≤ 0.10	≤ 0.10
Z	≤ 0.2	≤ 0.2	≤ 0.2



DISCHARGE	1 1/2"	±1420	±1160	±1780	±920	±460	±700
inch		Fx	Fy	Fz	Mx	My	Mz
DN		Force (N)			Moment(Nm)		
3"		±2660	±2140	±1780	±1900	±940	±1440
inch		Fx	Fy	Fz	Mx	My	Mz
DN		Force (N)			Moment(Nm)		



Static loading calculation results			Dynamic loading calculation results		
FXStatic=±	3200	N	FXdynamic=±	0	N
FYStatic=±	2580	N	FYdynamic=±	32	N
FZStatic=±	-3593/9473	N	FZdynamic=±	32	N
MXStatic=±	3198	N*m	MXdynamic=±	38/-11	N*m
MYStatic=±	4522/4177	N*m	MYdynamic=±	17	N*m
MZStatic=±	2992	N*m	MZdynamic=±	17	N*m

WEIGHT TABLE	
PUMP	268 KG
MOTOR	294 KG
SEAL SYSTEM	70 KG
BASEPLATE	536 KG
OTHERS	50 KG
TOTAL WEIGHT	1218 KG
ROTOR WEIGHT	6.4 KG
MAX. MAINTENANCE WEIGHT	188 KG

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
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.: A315.753AME SCALE:

DEEP BLUE PUMP Energy Industries Engineering & Design Co.

DRAWING TITLE:
Pump Outline Drawing for OFF-SPEC LPG TRANSFER PUMPS
05-405-P-8A/B

DRAWING No.: BU-05-VD-303-MA-DRW-4058-006 SHEET No. 1 OF 1