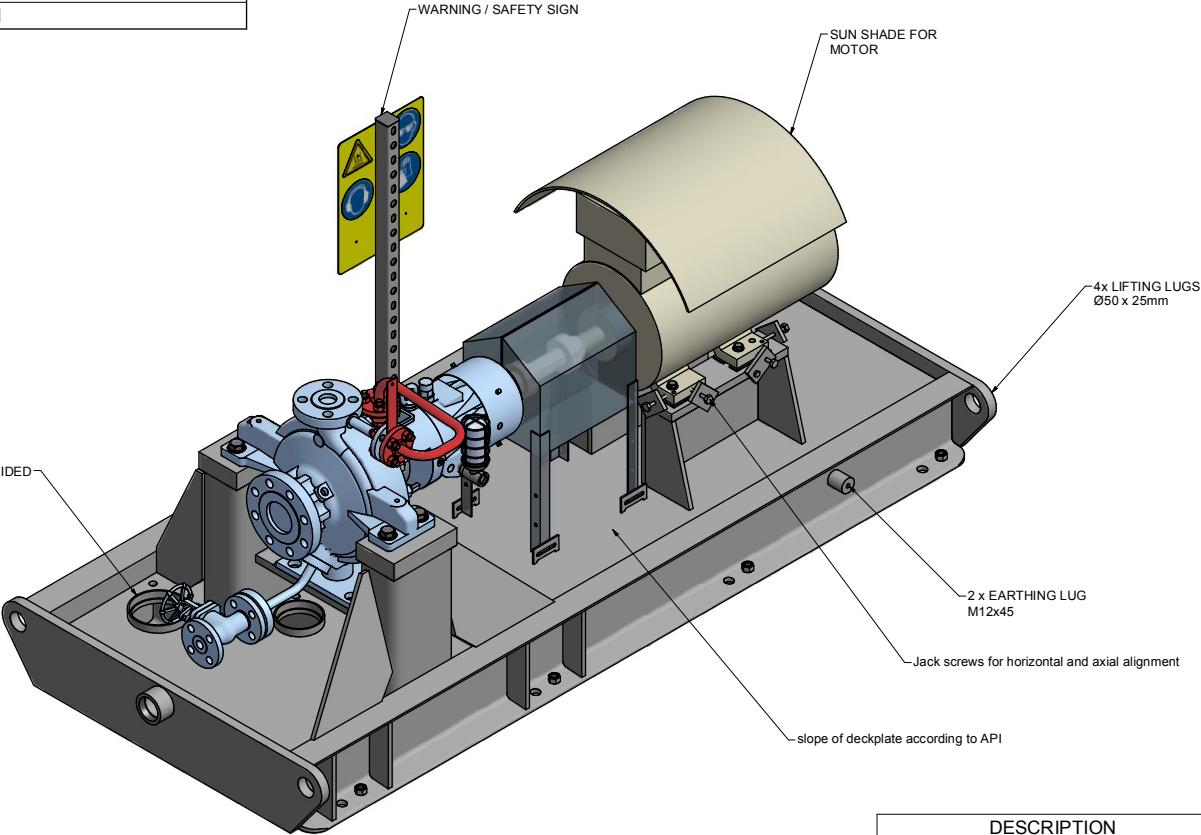


PUMP SPECIFICATIONS		
SIZE & TYPE: ZF40-2250		
SPEED: (see MOTOR SPECIFICATIONS)		
ROTATION: CW (AS VIEWED FROM DRIVER)		
DISCH FLG:	1,5" CLASS: 300RF	Standard: ASME B16.5
SUCT FLG:	3" CLASS: 300RF	Standard: ASME B16.5
MECH SEAL TYPE: 151CA-038		
MECH SEAL DRG: 25507-16-10-P-1484A/B API CODE: 21A-LHR-038		
API PIPING PLANS: 11 + 61		

COUPLING SPECIFICATIONS	
MFR: Metastream	
TYPE: TSKS	SIZE: 0013
COUPLING-GUARD MATERIAL: Brass	

DRIVER SPECIFICATIONS		
MOTOR: Schorch		
FRAME: 160	Enclosure:Zone 2, IIB, T3	
kW: 15	SPEED: 2920 rpm	
PHASE: 3	VOLTAGE: 400	
FURNISHED BY: SULZER	CYCLE: 50 Hz	



NOTES:

- CAUTION!** CAREFULLY CHECK ALIGNMENT BEFORE STARTING UNIT. ALL HOLES IN FLANGES STRADDLE CENTERLINES. **THE CONNECTION OF PIPES TO THE UNIT HAS TO BE STRESS FREE.**
- COLORS ARE NOT INTENDED TO REPRESENT "AS SHIPPED" PAINT REQUIREMENTS. THEY ARE FOR QUICK IDENTIFICATION OF PIPING AND EQUIPMENT.
- PIPING AND EQUIPMENT ARE MODELED REPRESENTATIONS ONLY. ACTUAL LOCATION AND ORIENTATION MAY VARY PER SHOP STANDARDS, UNLESS OTHERWISE DIMENSIONED.
- THE SUCTION PIPING OR INTAKE DESIGN SHALL MEET THE HYDRAULIC INSTITUTE STANDARDS ANSI/HI 9.8-1998 "PUMP INTAKE DESIGN" REQUIREMENTS.

© SULZER Ltd 2015 (Date of Drawing).
ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED, DISTRIBUTED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPIING AND RECORDING, WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF SULZER PUMPS

	COG	X	Y	Z
	PUMP	550	0	550
	COUPLING	1135	0	550
	BASEPLATE	1002	55	160
	MOTOR	1575	0	550
PACKAGE		1056	31	327
COG=CENTER OF GRAVITY				

DESCRIPTION	VALUE
PUMP ROTOR WEIGHT [kg]	19,6
PUMP ROTOR INERTIA [kg.m²]	0,058
PUMP DYNAMIC LOADS [N]	96/23
MOTOR ROTOR WEIGHT [kg]	Appr. 24,7
MOTOR ROTOR INERTIA [kg.m²]	0,043
MOTOR DYNAMIC LOADS [N]	19

MAINTENANCE WEIGHT PUMP:	51	kg
--------------------------	----	----

APPROXIMATE WEIGHTS		
PUMP:	161	kg
MOTOR:	208	kg
BASEPLATE:	503	kg
AUXILIARY:	50	kg
TOTAL:	922	kg

CONTRACT DATA	
PURCHASER:	AIOTEC GmbH
USER:	
JOB/PROJECT:	Kangan C2 Recovery and Fractionation Plant
CUST. P.O. NO.:	
SERVICE:	WATER REFLUX PUMP AMDEA
INSTALLED AT:	
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	1002471880070

IDENTIFICATION NUMBERS		
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583639	10-P-1484 A	10-M-1484 A
583640	10-P-1484 B	10-M-1484 B

<input checked="" type="checkbox"/> CERTIFIED FINAL <input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY <input type="checkbox"/> PRELIMINARY ONLY	DO NOT SCALE. DIMENSIONS: mm	
	UNLESS OTHERWISE SPECIFIED TOLERANCES	
	≤ 500 mm	± 3mm
	> 500 mm	± 12mm
AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25		

DRAWING CONTENT	
SHEET DESCRIPTION	SHEET NO.
GA ISOMETRIC DATA SHEET	1
FOUNDATION AND NOZZLE	2
CONNECTION LAYOUT	3

<input type="checkbox"/> Approved No comment and the document is released for Manufacturing.	
<input type="checkbox"/> Approved with comment: Vendor shall correct, review and resubmit the document. The document can be released for Manufacturing if changes incorporated.	
<input type="checkbox"/> Commented: Vendor shall correct, review and resubmit the document by the date specified. The document shall be released under the Status of "To Be Released Later", if needed separately and to resubmit later during the Manufacturing.	
<input type="checkbox"/> Not Accepted (Rejected): Vendor shall re-work/re-design/re-specify the contents covered in the document according to the comments, reasons for rejection. A revised document shall be resubmitted later during the Manufacturing.	
Allowing checking results by EIED shall in no way release the vendor of any claims, damages or responsibility out of the purpose order and the mutual engagement in writing.	
DATE : DGMT : Signature :	
Only for internal review	
DY	PI
ST	AR
PR	SA
IN	ME
IV	TL

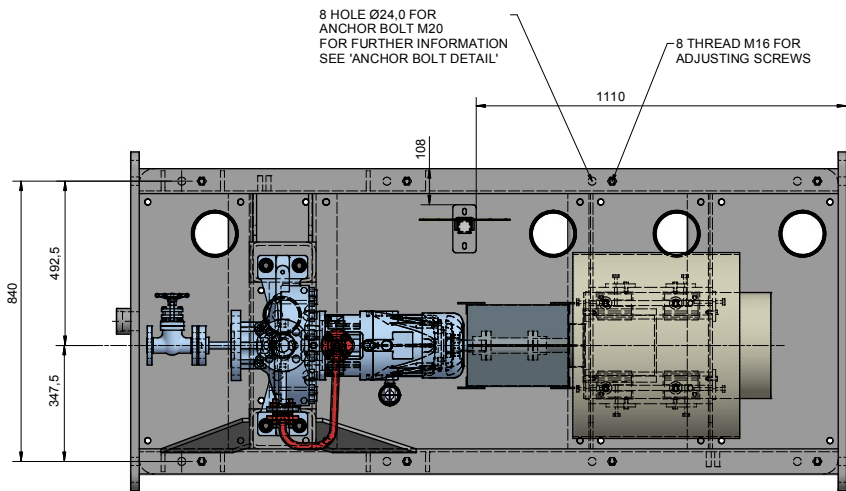
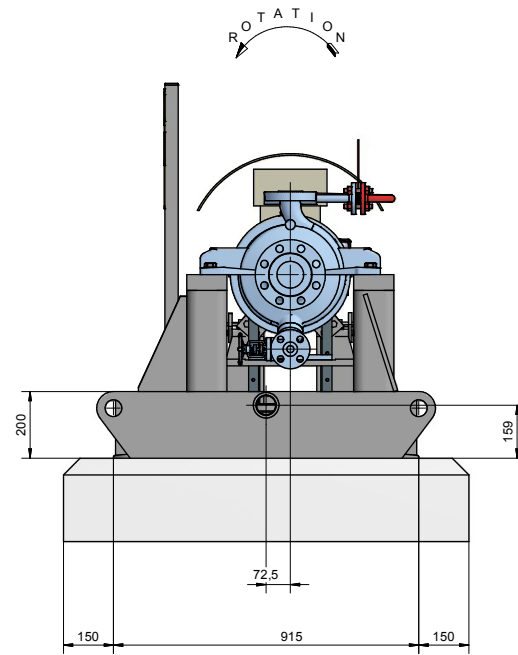
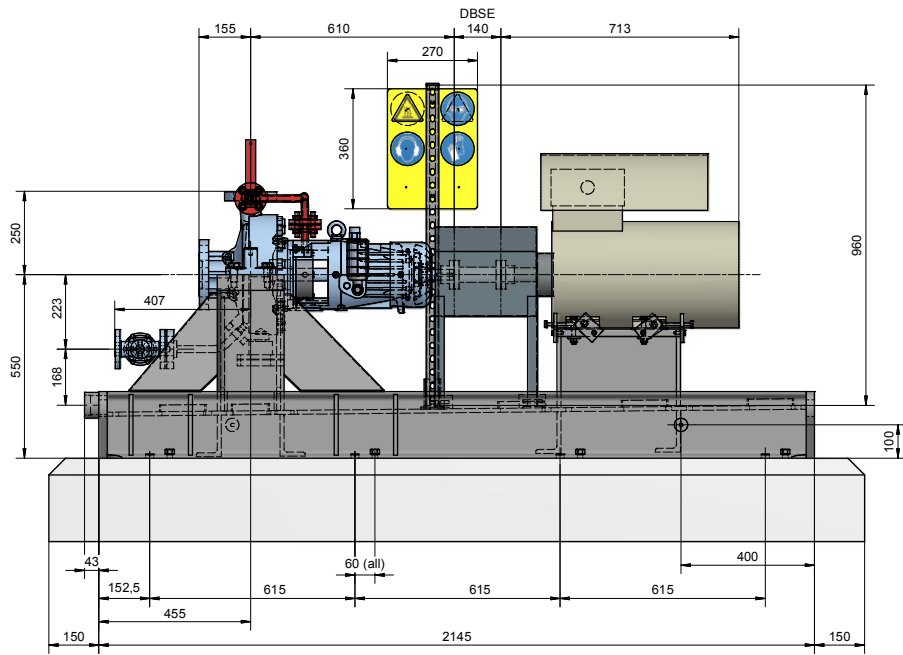
03	19.03.18	"R"	For Approval	RS	TR	CH	PL
02	18.12.17	"R"	For Approval	RS	TR	CH	PL
01	31.08.17	"R"	For Approval	RS	TR	CH	PL
00	07.06.17	"F"	For Approval	RS	TR	CH	PL
REV.	DATE	Status	Purpose of issue	PRE"P.	CHK'D.	APP'D.	AUTH'D.

KANGAN C2 RECOVERY & FRACTIONATION PLANT	
P.O. No.:	KP-10-00-PS-MA-PO-0003
SCALE :	

SULZER	
---------------	--

DRAWING TITLE:	
General Arrangement drawings for Item 10-P-1484 A/B	
DRAWING No.	VP-10-00-MA-0003-0714
SHEET No.	1 of 3
REV.	03

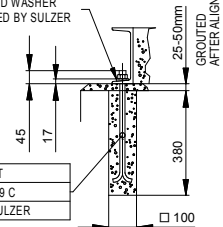
REV. MODIFICATION:				MODIFIED		CHECKED		APPROVED	
SEP. PARTS LIST:		NO		FORMAT: A1		DESIGN GROUP:		FIRST ANGLE PROJECTION	
REPLACED BY:		-		SUBSTITUTE FOR:				ORIGINAL SCALE:	
ZF				GENERAL ARRANGEMENT		DRAWN:		7-Jun-2017 Scherban	
40-2250				GA ISOMETRIC AND DATA SHEET		CHECKED:		7-Jun-2017 Ratzel	
-				-		APPROVED:			
1002471880070				GENERAL ARRANGEMENT DRAWING		PART NO.		EN PGA1002471880070-01	
SULZER				1 / 3					



ANCHOR BOLT DETAIL

N.T.S.

TAPERED WASHER
SUPPLIED BY SULZER



8 ANCHOR BOLT
M20x400 DIN 529 C
SUPPLIED BY SULZER

CONTRACT DATA

PURCHASER: AIOTEC GmbH

USER:

JOB/PROJECT: Kangan C2 Recovery and Fractionation Plant

CUST. P.O. NO.:
SERVICE: WATER REFLUX PUMP AMDEA
INSTALLED AT:
PUMP OEM: Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.: 1002471880070

IDENTIFICATION NUMBERS

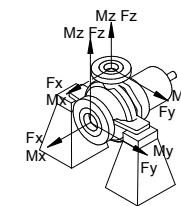
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583639	10-P-1484 A	10-M-1484 A
583640	10-P-1484 B	10-M-1484 B

<div><input checked="" type="checkbox"/> CERTIFIED FINAL</div> <div><input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY</div> <div><input type="checkbox"/> PRELIMINARY ONLY</div>	DO NOT SCALE. DIMENSIONS: mm	
	<u>UNLESS OTHERWISE SPECIFIED</u>	
	TOLERANCES	
	≤ 500 mm ± 3mm	
	> 500 mm ± 12mm	
	AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25	

MAXIMUM NOZZLE LOADINGS

Forces do comply with 2 times of the forces shown in API 610 11th

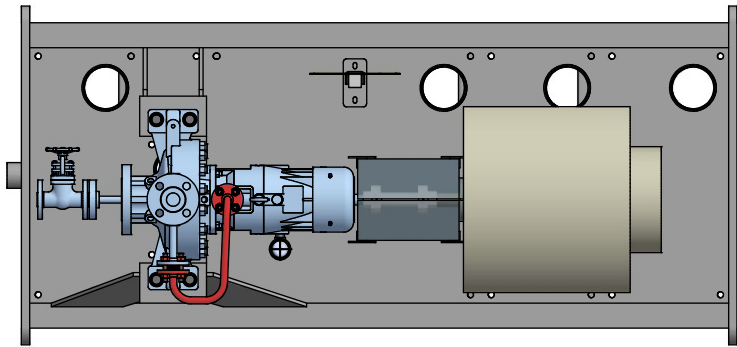
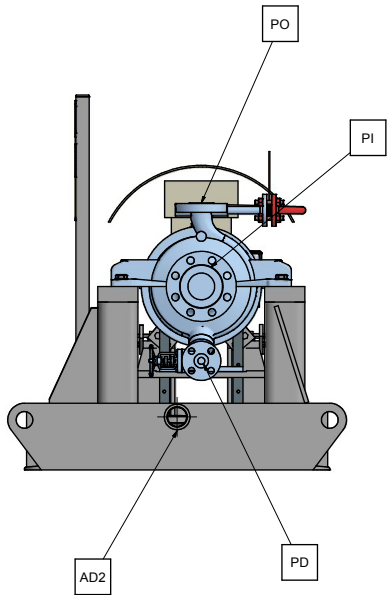
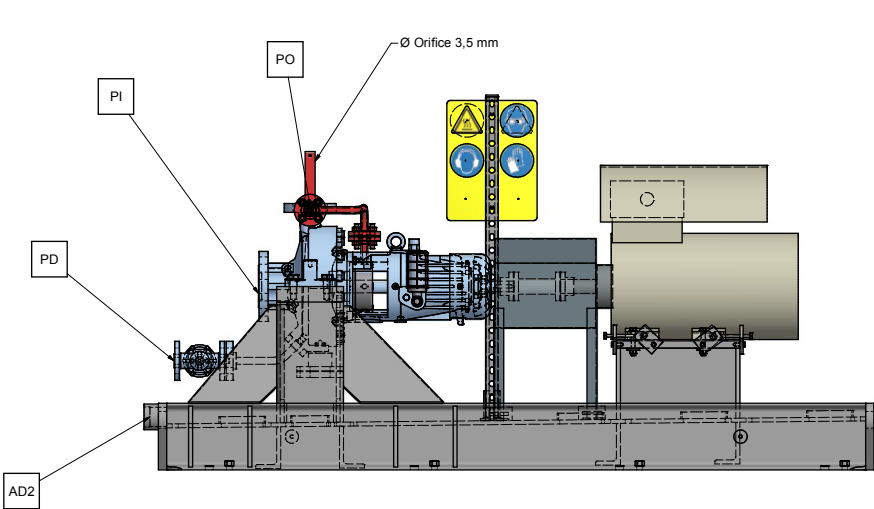
FORCE IN (N) MOMENTS IN (Nm)



		SUCT	DISCH
		FORCE	MOMENTS
Fx	2660	1420	
Fy	2140	1160	
Fz	1780	1780	
Fr	3860	2560	
Mx	1900	920	
My	940	460	
Mz	1440	700	
Mr	2560	1240	

© SULZER Ltd 2015 (Date of Drawing).
ALL RIGHTS RESERVED. NO PART OF THIS
DRAWING MAY BE REPRODUCED, DISTRIBUTED OR
TRANSMITTED IN ANY FORM OR BY ANY MEANS,
ELECTRONIC OR MECHANICAL, INCLUDING
PHOTOCOPYING AND RECORDING, WITHOUT THE
EXPRESS PRIOR WRITTEN CONSENT OF SULZER
PUMPS

REV. MODIFICATION		MODIFIED		CHECKED	APPROVED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: -	FIRST ANGLE PROJECTION	EN
REPLACED BY:	- SUBSTITUTE FOR:			ORIGINAL SCALE:	
ZF	GENERAL ARRANGEMENT FOUNDATION AND NOZZLE			DRAWN:	7-Jun-2017
40-2250				Scherban	
1002471880070	GENERAL ARRANGEMENT DRAWING			CHECKED:	7-Jun-2017
				Ratzel	
			APPROVED:		
SULZER		PART NO.	EN	PGA1002471880070-01	2 / 3



© SULZER Ltd 2015 (Date of Drawing).
ALL RIGHTS RESERVED. NO PART OF THIS
DRAWING MAY BE REPRODUCED, DISTRIBUTED OR
TRANSMITTED IN ANY FORM OR BY ANY MEANS,
ELECTRONIC OR MECHANICAL, INCLUDING
PHOTOCOPYING AND RECORDING, WITHOUT THE
EXPRESS **PRIOR** WRITTEN CONSENT OF SULZER
PUMPS

CONNECTION LEGEND			
ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	2"	ANSI B16.5 300 RF
PO	PUMP DISCHARGE NOZZLE	1.5"	ANSI B16.5 300 RF
PD	PUMP DRAIN	3/4"	ANSI B16.5 300 RF WITH GATE VALVE
AD2	BASE DRAIN	2"	NPT FEMALE

CONTRACT DATA

PURCHASER: AIOTEC GmbH
USER:
JOB/PROJECT: Kangan C2 Recovery and Fractionation Plant
CUST. P.O. NO.:
SERVICE: WATER REFLUX PUMP AMDEA
INSTALLED AT:
PUMP OEM: Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.: 1002471880070

IDENTIFICATION NUMBERS

SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583639	10-P-1484 A	10-M-1484 A
583640	10-P-1484 B	10-M-1484 B

- ☒ CERTIFIED FINAL
☐ CERTIFIED FOR NOZZLE & FOUNDATION ONLY
☐ PRELIMINARY ONLY

DO NOT SCALE. DIMENSIONS: mm

UNLESS OTHERWISE SPECIFIED
TOLERANCES
≤ 500 mm ± 3mm
> 500 mm ± 12mm

AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

REV. MODIFICATION		MODIFIED		CHECKED	APPROVED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: -	FIRST ANGLE PROJECTION <input checked="" type="checkbox"/>	
REPLACED BY:		SUBSTITUTE FOR:			ORIGINAL SCALE:
ZF	GENERAL ARRANGEMENT				DRAWN: 7-jun-2017
40-2250	CONNECTION LAYOUT				Scherban
1002471880070	-				CHECKED: 7-jun-2017
	GENERAL ARRANGEMENT DRAWING				Ratzel
				APPROVED:	
SULZER		PART NO.	EN	PGA1002471880070-01	3 / 3