

PUMP SPECIFICATIONS	
SIZE & TYPE:	GSG 125-330
SPEED:	(see MOTOR SPECIFICATIONS)
ROTATION:	CW (AS VIEWED FROM DRIVER)
DISCH FLG:	6" CLASS: 900RTJ Standard: ASME B16.5
SUCT FLG:	10" CLASS: 900RTJ Standard: ASME B16.5
MECH SEAL TYPE:	CHETRA TYP 881D-A-098
MECH SEAL DRG:	25505-16-10-P-1385 A/B API CODE: BDPHX /N
API PIPING PLANS:	11 + 53B, Cooling Plan M

COUPLING SPECIFICATIONS	
MFR:	Metastream
TYPE:	TLKS
COUPLING-GUARD MATERIAL:	Brass
SIZE:	500

DRIVER SPECIFICATIONS	
MOTOR:	SCHORCH
FRAME:	630
kW:	810
PHASE:	3
FURNISHED BY:	SULZER
ENCLOSURE:	ZONE 2, IIB, T3
SPEED:	2979 rpm
VOLTAGE:	6000
CYCLE:	50 Hz

CONTRACT DATA	
PURCHASER:	AIOTEC GMBH
USER:	KANGAN PETRO REFINING CO. (KPRC)
JOB/PROJECT:	KANGAN C2 RECOVERY AND FRACTIONATION PLANT
CUST. P.O. NO.:	KP-10-00-PS-MA-PO-0003
SERVICE:	PROPANE INJECTION PUMP
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100247188-0130

IDENTIFICATION NUMBERS		
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583650	10-P-1385A	10-M-1385A
583651	10-P-1385B	10-M-1385B
<input checked="" type="checkbox"/> CERTIFIED FINAL	DO NOT SCALE. DIMENSIONS: mm UNLESS OTHERWISE SPECIFIED TOLERANCES ≤ 500 mm ± 3mm ≥ 500 mm ± 12mm	
<input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY		
<input type="checkbox"/> PRELIMINARY ONLY		
AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25		

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

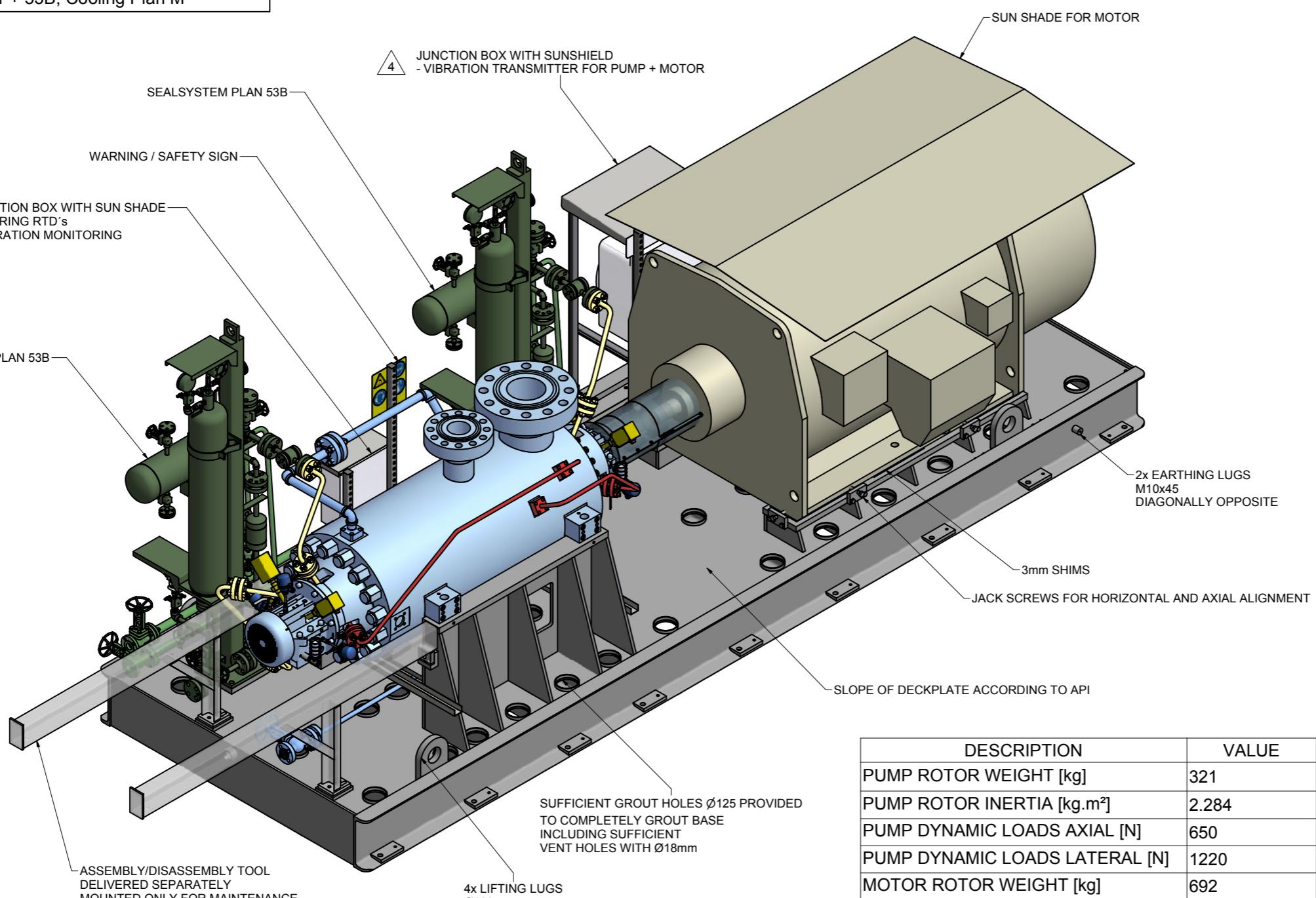
Code1	<input type="checkbox"/> Approved: No comment and the document is released for Manufacturing.
Code2	<input type="checkbox"/> Approved with comment: Vendor shall correct, revise and resubmit the document. The document can be released for Manufacturing if changes incorporated.
Code3	<input type="checkbox"/> Commented: Vendor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R Revised issue". All corrected documents shall be resubmitted before starting the Manufacturing.
Code4	<input type="checkbox"/> Not Accepted (Rejected): Vendor shall re-work/re-design/re-specify the contents of the document according to the requirements for rejection. All corrected documents shall be resubmitted before starting the Manufacturing. Above checking results 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.
DATE :  DEPT. : EIED Signature :	
Only for internal review CV PI EL IN ME MA ST AR PR SA HV TL	

04	22.02.18	"R"	For Approval	SW	AM	KE	PL
03	12.09.17	"R"	For Approval	SW	AM	KE	PL
02	19.06.17	"R"	For Approval	SW	AM	KE	PL
01	01.03.17	"R"	For Approval	SW	AM	KE	PL
00	20.12.16	"F"	For Approval	SW	AM	KE	PL
REV.	DATE	Status	Purpose of Issue	PRE'P.	CHC'D.	APP'D.	AUTH'D.

KANGAN
C2 RECOVERY & FRACTIONATION PLANT
KANGAN PETRO REFINING CO.

P.O. No.: KP-10-00-PS-MA-PO-0003 SCALE : 1:14

SULZER				
DRAWING TITLE:	General Arrangement drawings for Item 10-P-1385 A/B			
DRAWING No.	VP-10-00-MA-0003-1314	Sheet No.	1 of 3	REV. 04
REV.	MODIFICATION	MODIFIED	CHECKED	APPROVED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: Sulzer Pumpen (Deutschland) GmbH	FIRST ANGLE PROJECTION <input checked="" type="checkbox"/>
REPLACED BY:	-	SUBSTITUTE FOR:	-	ORIGINAL SCALE: 1:14
GSG	B2B 125-330; 1D+4+5	GENERAL ARRANGEMENT	GA ISOMETRIC AND DATA SHEET	DRAWN: 08-Dec-2016 St. Wetzel
Kangan	-	CHECKED: 09-Dec-2016 A. Mildenberger	APPROVED: 09-Dec-2016 K. Engel	REVIEWED: 09-Dec-2016
100247188-0130	-	GENERAL ARRANGEMENT DRAWING	PART NO. XXX EN PGA1002471880130-01	1 / 3
SULZER				



NOTES:

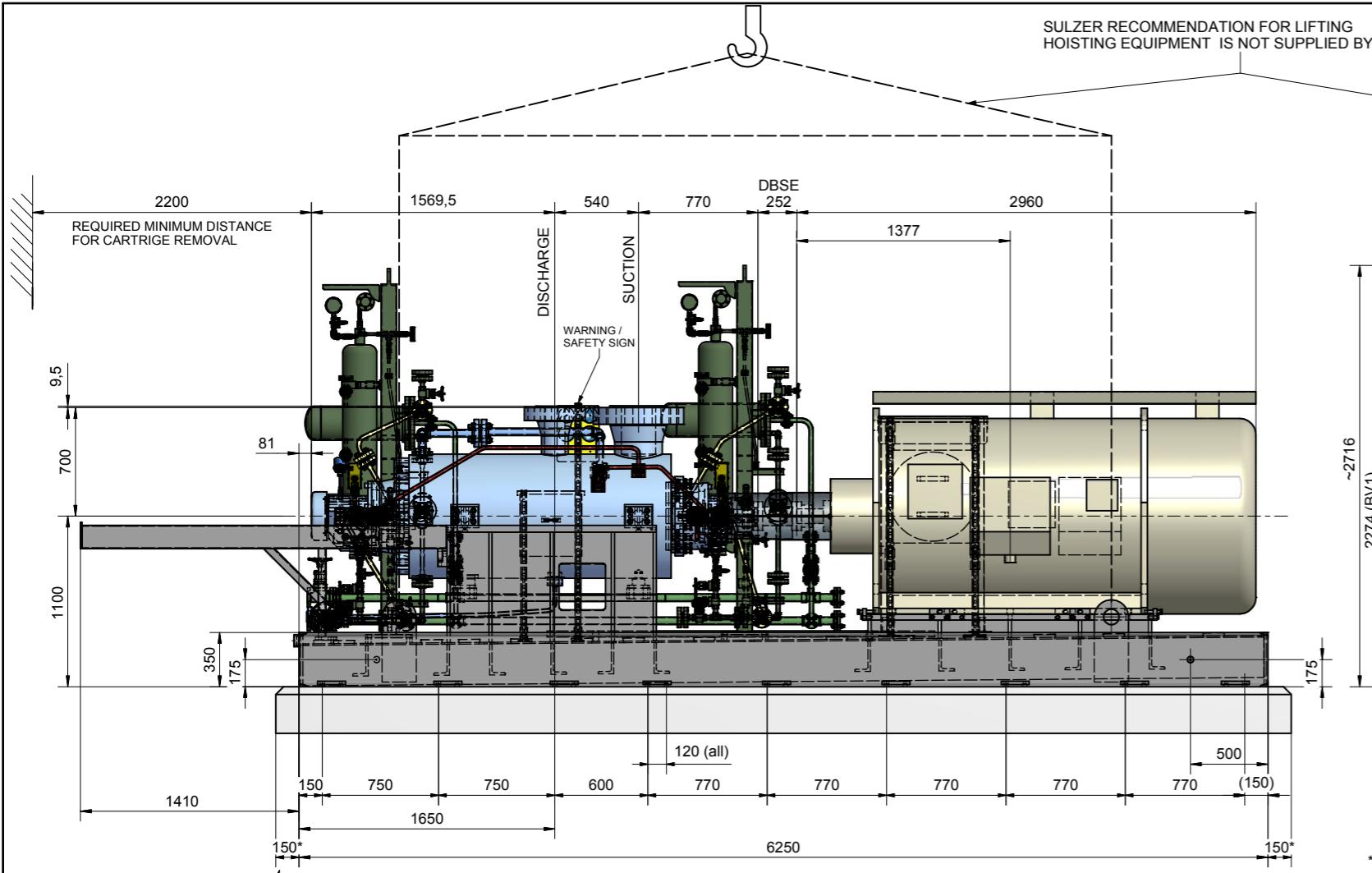
- CAUTION! CAREFULLY CHECK ALIGNMENT BEFORE STARTING UNIT. ALL HOLES IN FLANGES STRADDLE CENTERLINES. THE CONNECTION OF PIPES TO THE UNIT HAS TO BE STRESS FREE.

2. COLORS ARE NOT INTENDED TO REPRESENT "AS SHIPPED" PAINT REQUIREMENTS. THEY ARE FOR QUICK IDENTIFICATION OF PIPING AND EQUIPMENT.

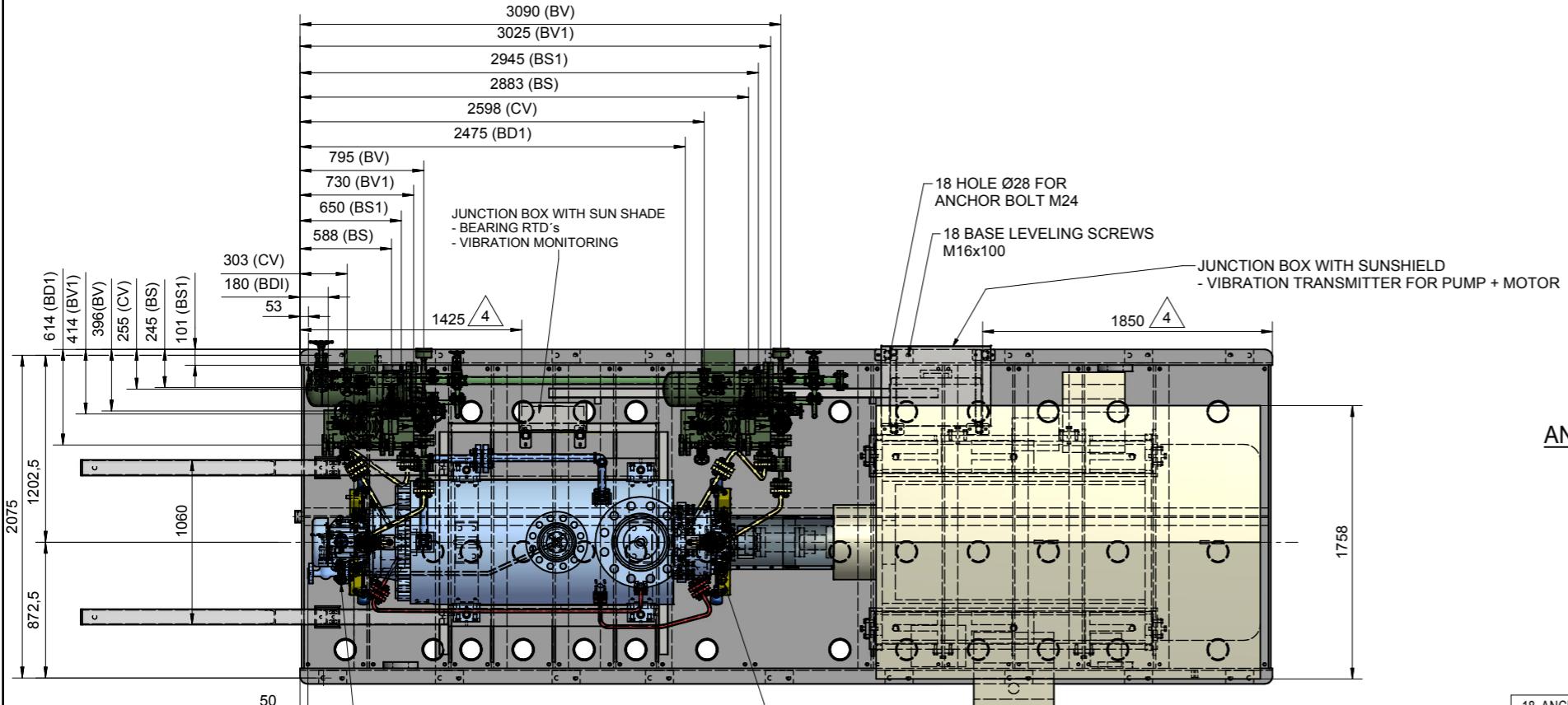
3. PIPING AND EQUIPMENT ARE MODELED REPRESENTATIONS ONLY. ACTUAL LOCATION AND ORIENTATION MAY VARY PER SHOP STANDARDS, UNLESS OTHERWISE DIMENSIONED.

4. THE SUCTION PIPING OR INTAKE DESIGN SHALL MEET THE HYDRAULIC INSTITUTE STANDARDS ANSI/HI 9.8-1998 „PUMP INTAKE DESIGN“ REQUIREMENTS.

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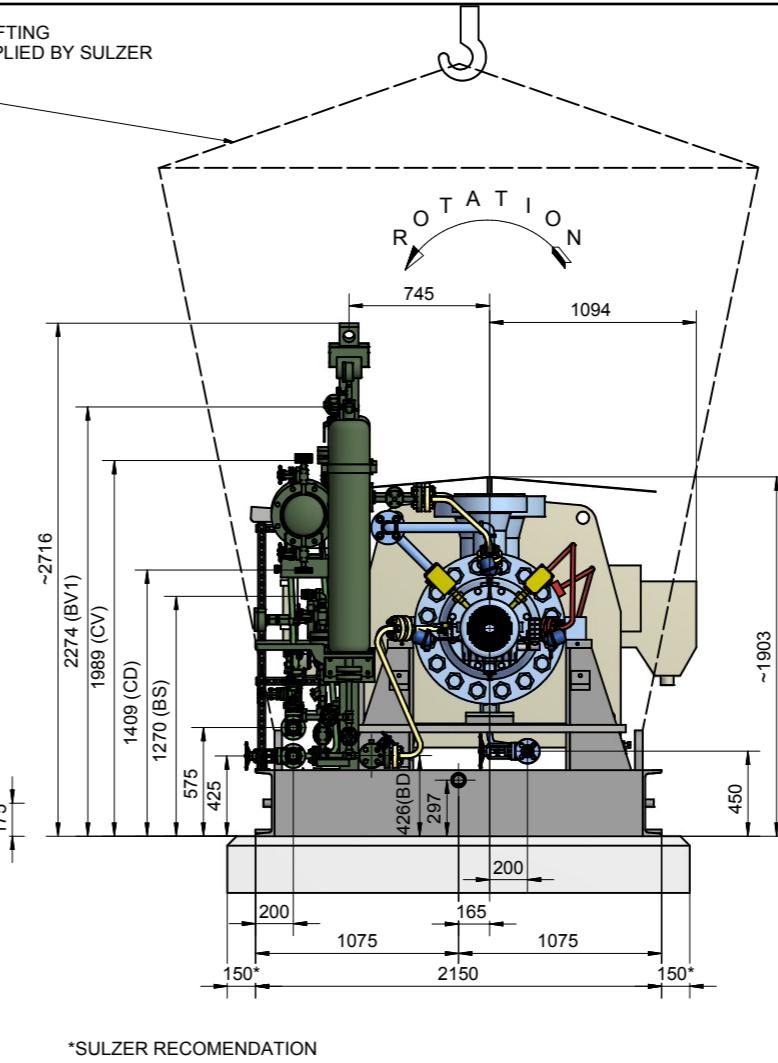


*SULZER RECOMENDATION

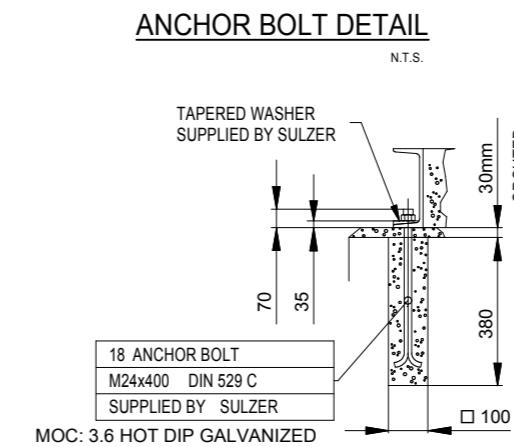


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PUMPS

Grout material:
Select a non-shrinking grout that is compatible with the highest and lowest temperatures to which it may be exposed.
Use concrete from a concrete company with a final strength of 25 N/mm² (B25) or better.



*SULZER RECOMENDATION



18 ANCHOR BOLT
M24x400 DIN 529 C
SUPPLIED BY SULZER
MOC: 3.6 HOT DIP GALVANIZED

CONTRACT DATA

PURCHASER:	AIOTEC GMBH
USER:	KANGAN PETRO REFINING CO. (KPRC)
JOB/PROJECT:	KANGAN C2 RECOVERY AND FRACTIONATION PLANT
CUST. P.O. NO.:	KP-10-00-PS-MA-PO-0003
SERVICE:	PROPANE INJECTION PUMP
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100247188-0130

IDENTIFICATION NUMBERS

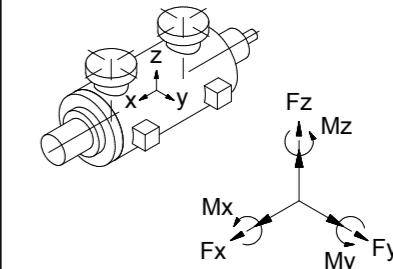
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583650	10-P-1385A	10-M-1385A
583651	10-P-1385B	10-M-1385B

CERTIFIED FINAL DO NOT SCALE. DIMENSIONS: mm
UNLESS OTHERWISE SPECIFIED
CERTIFIED FOR NOZZLE & FOUNDATION ONLY TOLERANCES
≤ 500 mm ± 3mm
≥ 500 mm ± 12mm
PRELIMINARY ONLY
AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

MAXIMUM NOZZLE LOADINGS

Forces do comply with 2 times of the forces shown in API 610 10th

FORCE IN (N) MOMENTS IN (Nm)



	SUCT	DISCH
Fx	10680	4980
Fy	8900	4100
Fz	13340	6220
Fr	19260	8960
Mx	10040	4600
My	4880	2360
Mz	7600	3520
Mr	13500	6260

04	22.02.18	"R"	For Approval	SW	AM	KE	PL
03	12.09.17	"R"	For Approval	SW	AM	KE	PL
02	19.06.17	"R"	For Approval	SW	AM	KE	PL
01	01.03.17	"R"	For Approval	SW	AM	KE	PL
00	20.12.16	"F"	For Approval	SW	AM	KE	PL
REV.	DATE	Status	Purpose of Issue	PRE'P.	CHC'D.	APP'D.	AUTH'D.

KANGAN
C2 RECOVERY & FRACTIONATION PLANT



P.O. No.: KP-10-00-PS-MA-PO-0003

SCALE : 1:20

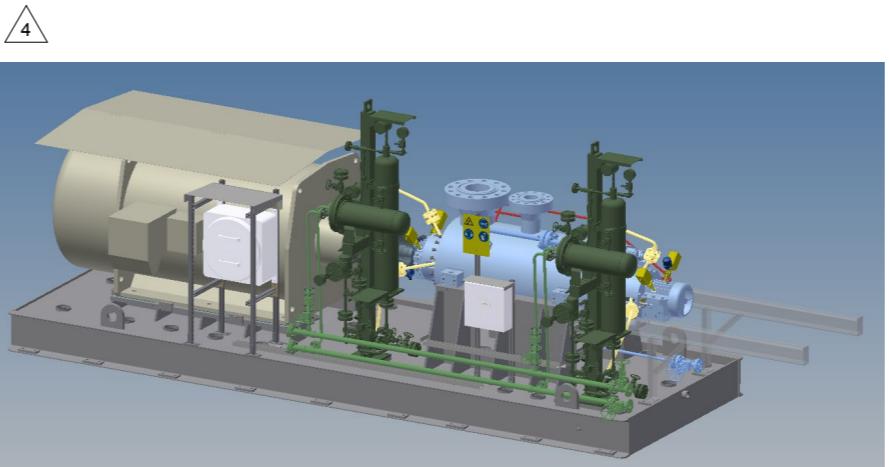
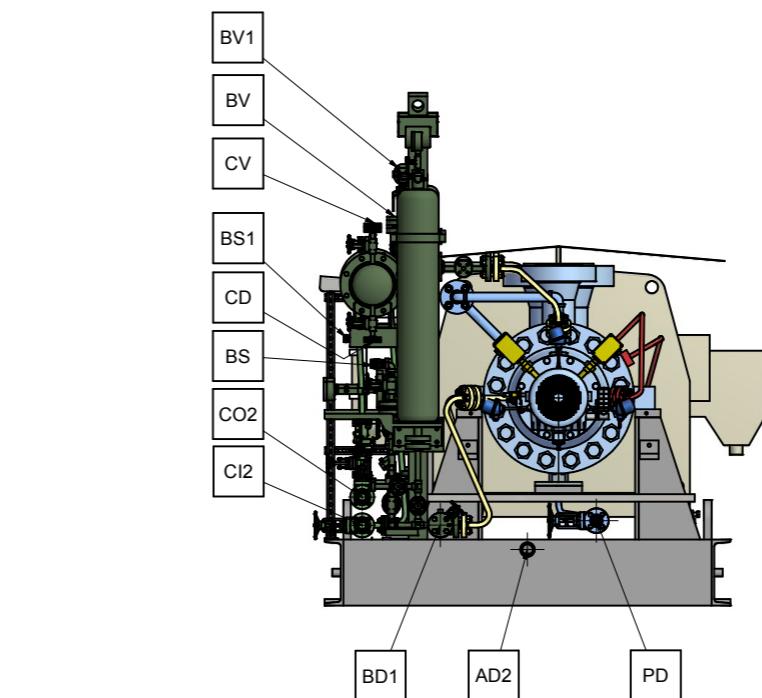
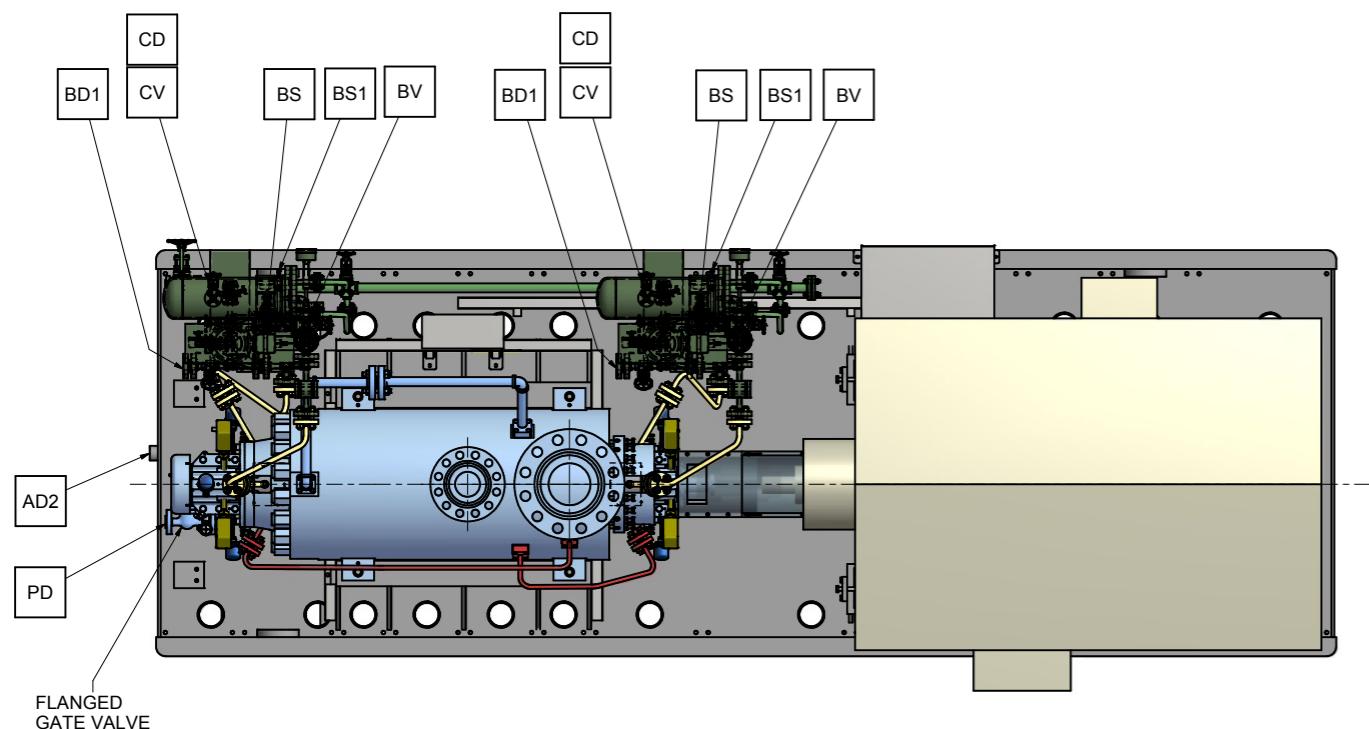
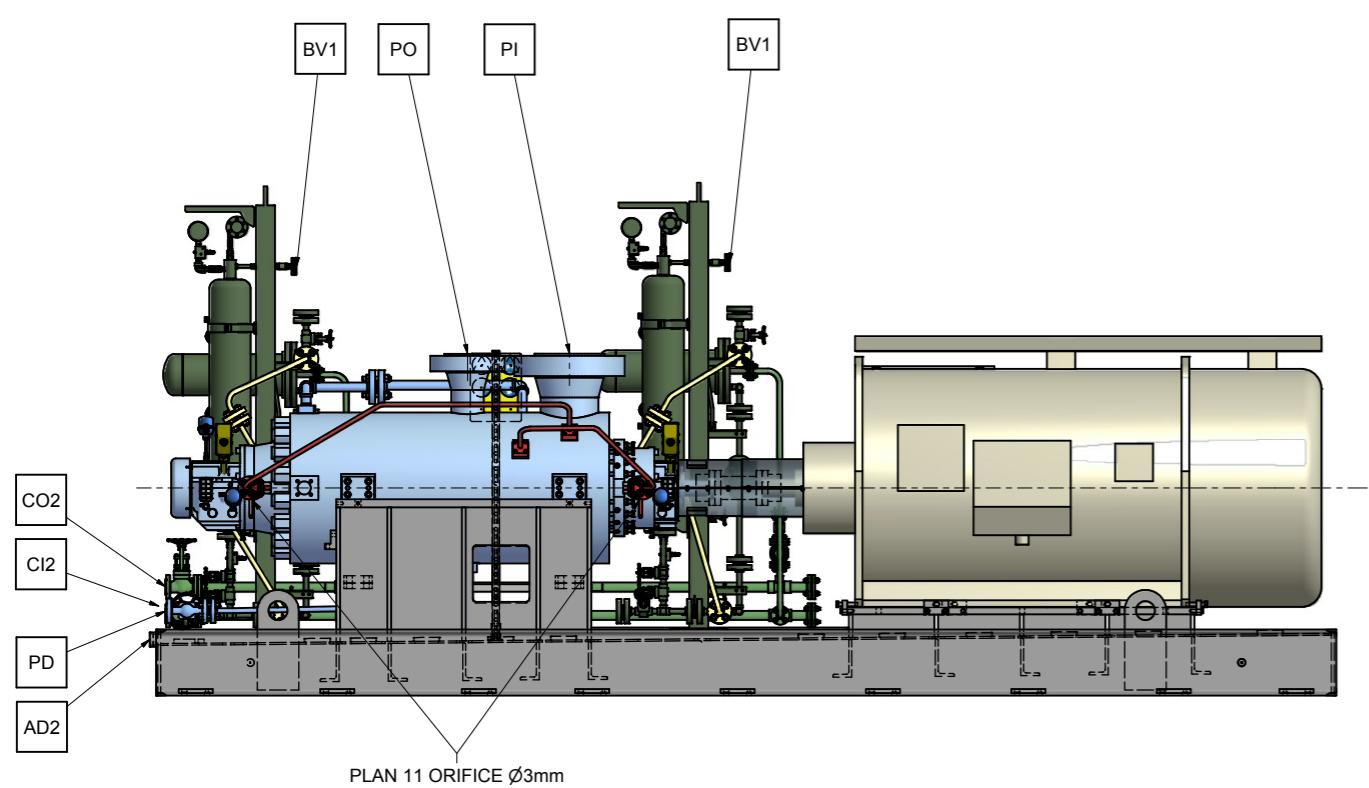
SULZER



DRAWING TITLE:
General Arrangement drawings for Item 10-P-1385 A/B

DRAWING No. VP-10-00-MA-0003-1314 SHEET No. 2 OF 3 REV. 04

REV.	MODIFICATION	MODIFIED	CHECKED	APPROVED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: Sulzer Pumpen (Deutschland) GmbH	FIRST ANGLE PROJECTION
REPLACED BY:	-	SUBSTITUTE FOR:	-	ORIGINAL SCALE: 1:20
GSG	B2B 125-330; 1D+4+			DRAWN: 08-Dec-2016 St. Wetzel
Kangan	-			CHECKED: 09-Dec-2016 A. Mildenberger
100247188-0130				APPROVED: 09-Dec-2016 K. Engel
SULZER	PART NO. XXX	EN	PGA1002471880130-01	2 / 3



CONNECTION LEGEND			
ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	10"	ASME B16.5 - 900RTJ
PO	PUMP DISCHARGE NOZZLE	6"	ASME B16.5 - 900RTJ
PD	PUMP DRAIN WITH GATE VALVE	3/4"	ASME B16.5 - 1500RTJ
AD2	BASE DRAIN	2"	NPT FEMALE
CI2	COOLING HEADER - INLET	3/4"	ASME B16.5 - 150RF
CO2	COOLING HEADER - OUTLET	3/4"	ASME B16.5 - 150RF
BS	PLAN 53B - RESERVOIR FILL	1/2"	NPT-F-WITH QUICK COUPLING
BS1	PLAN 53B - NITROGEN CHARGE	1/4"	BSPP-F-WITH VALVE
BD1	PLAN 53B - RESERVOIR DRAIN	3/4"	ASME B16.5 - 1500RTJ - BLIND FLANGE
BV	PLAN 53B - HIGH POINT VENT	3/4"	ASME B16.5 - 1500RTJ - BLIND FLANGE
BV1	PLAN 53B - ACCUMULATOR VENT	3/4"	ASME B16.5 - 1500RTJ - BLIND FLANGE
CV	PLAN 53B - COOLER VENT	1/2"	ASME B16.5 - 150RF - BLIND FLANGE
CD	PLAN 53B - COOLER DRAIN	1/2"	ASME B16.5 - 150RF - BLIND FLANGE

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EXPRESS PRIOR WRITTEN CONSENT OF SULZER
PUMPS

CONTRACT DATA			
PURCHASER: AIOTEC GMBH			
USER: KANGAN PETRO REFINING CO. (KPRC)			
JOB/PROJECT: KANGAN C2 RECOVERY AND FRACTIONATION PLANT			
CUST. P.O. NO.: KP-10-00-PS-MA-PO-0003			
SERVICE: PROPANE INJECTION PUMP			
INSTALLED AT: IRAN			
PUMP OEM: Sulzer Pumpen (Deutschland) GmbH			
SULZER ORDER NO.: 100247188-0130			
IDENTIFICATION NUMBERS			
SULZER SERIAL NO.	CUSTOMER TAG NO'S		
	PUMP	DRIVER	
583650	10-P-1385A	10-M-1385A	
583651	10-P-1385B	10-M-1385B	
-	-	-	
-	-	-	
-	-	-	
DO NOT SCALE. DIMENSIONS: mm			
<input checked="" type="checkbox"/> CERTIFIED FINAL		UNLESS OTHERWISE SPECIFIED	
<input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY		TOLERANCES	
<input type="checkbox"/> PRELIMINARY ONLY		≤ 500 mm ± 3mm	
		> 500 mm ± 12mm	
AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25			

04	22.02.18	"R"	For Approval	SW	AM	KE	PL
03	12.09.17	"R"	For Approval	SW	AM	KE	PL
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00	20.12.16	"F"	For Approval	SW	AM	KE	PL
REV.	DATE	Status	Purpose of Issue	PRE'P.	CHC'D.	APP'D.	AUTH'D.

KANGAN
C2 RECOVERY & FRACTIONATION PLANT



P.O. No.: KP-10-00-PS-MA-PO-0003 SCALE : 1:20

SULZER



DRAWING TITLE:
General Arrangement drawings for Item 10-P-1385 A/B
DRAWING No. VP-10-00-MA-0003-1314 SHEET No. 3 OF 3 REV. 04

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REV.	MODIFICATION	MODIFIED	CHECKED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: Sulzer Pumpen (Deutschland) GmbH FIRST ANGLE PROJECTION
REPLACED BY:	-	SUBSTITUTE FOR:	- ORIGINAL SCALE: 1:20
GSG	B2B 125-330; 1D+4+5	DRAWN: 08-Dec-2016 St. Wetzel	CHECKED: 09-Dec-2016 A. Mildenberger
Kangan	100247188-0130	APPROVED: 09-Dec-2016 K. Engel	
GENERAL ARRANGEMENT CONNECTION LAYOUT		DRAWN: 08-Dec-2016 St. Wetzel	
GENERAL ARRANGEMENT DRAWING		CHECKED: 09-Dec-2016 A. Mildenberger	
SULZER	PART NO. XXX	EN PGA1002471880130-01	3 / 3