

PUMP SPECIFICATIONS	
SIZE & TYPE:	GSG 100-300
SPEED:	(see MOTOR SPECIFICATIONS)
ROTATION:	CW (AS VIEWED FROM DRIVER)
DISCH FLG:	4" CLASS: 900RTJ Standard: ASME B16.5
SUCT FLG:	8" CLASS: 900RTJ Standard: ASME B16.5
MECH SEAL TYPE:	CHETRA TYP 881D-A-079
MECH SEAL DRG:	25506-16-10-P-1386 A/B API CODE: BDPHX /N
API PIPING PLANS:	11 + 53B, Cooling Plan M

COUPLING SPECIFICATIONS	
MFR:	Metastream
TYPE:	TSKS
COUPLING-GUARD MATERIAL:	Brass
SIZE:	230

DRIVER SPECIFICATIONS	
MOTOR:	SCHORCH
FRAME:	450
kW:	450
PHASE:	3
FURNISHED BY:	SULZER
ENCLOSURE:	ZONE 2, IIB, T3
SPEED:	2984 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:	BUTANE INJECTION PUMP
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100247188-0140

IDENTIFICATION NUMBERS		
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583652	10-P-1386A	10-M-1386A
583653	10-P-1386B	10-M-1386B
-	-	-
<input checked="" type="checkbox"/> CERTIFIED FINAL		DO NOT SCALE. DIMENSIONS: mm
<input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY		UNLESS OTHERWISE SPECIFIED TOLERANCES
<input type="checkbox"/> PRELIMINARY ONLY		≤ 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

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 released under the Status of "Re-Released Issue". All corrected documents shall be resubmitted before starting the Manufacturing.
Code4	<input type="checkbox"/> Not Accepted: Vendor shall re-work/re-design/re-specify the contents contents of the documents according to the comments/ reasons for rejection. All corrected documents shall be resubmitted before starting the Manufacturing. Above checking results by EIED shall in no way relieve Vendor from responsibility out of the purchase order and the mutual agreement of writing.
DATE :  DEPT. : Signature :	
Only for internal review CV PI EL IN ME MA ST AR PR SA HV TL	

04	05.02.18	"R"	For Approval	SW	AM	KE	PL
03	13.09.17	"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
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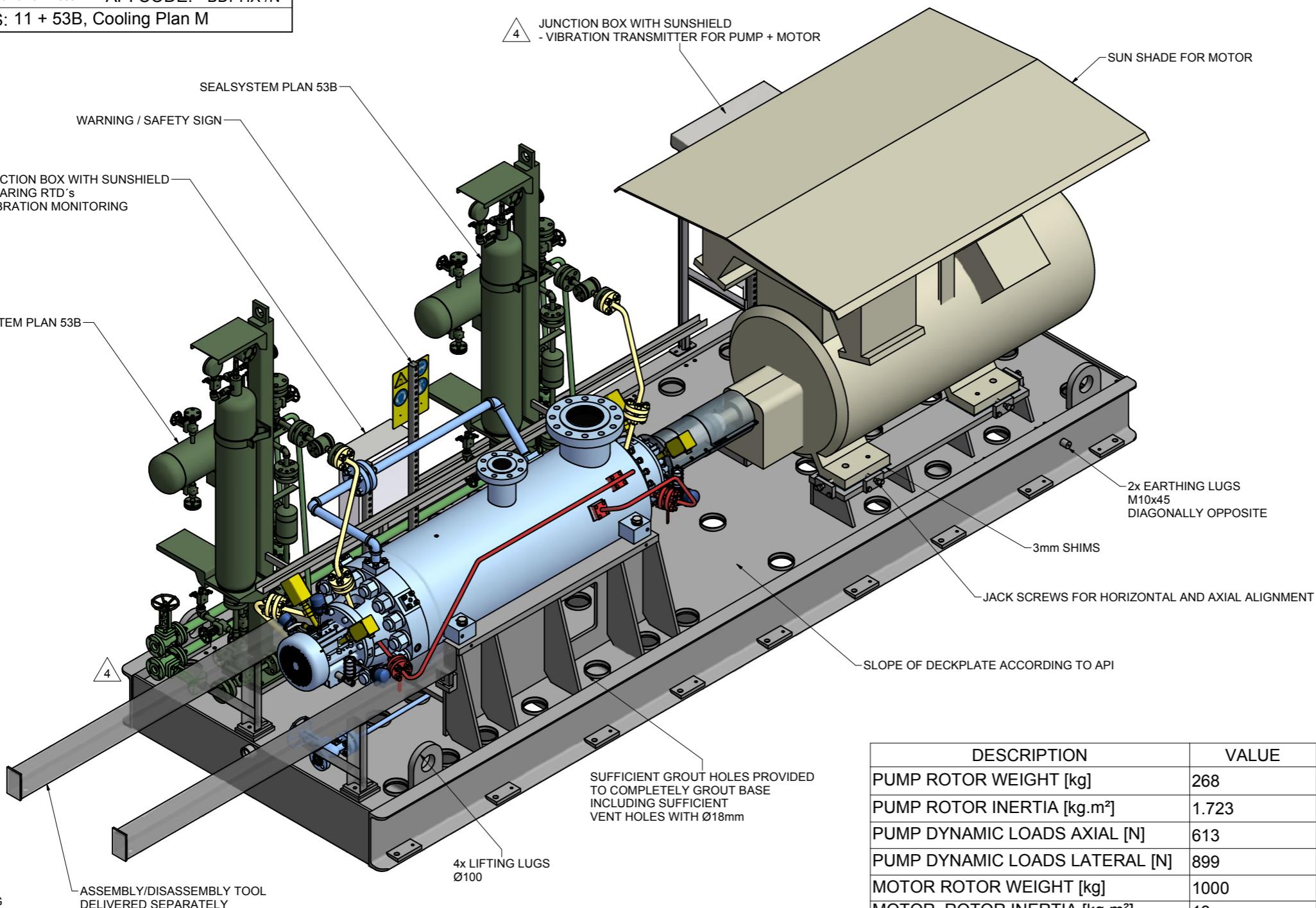
KANGAN
C2 RECOVERY & FRACTIONATION PLANT



P.O. No.: KP-10-00-PS-MA-PO-0003 SCALE : 1:13

SULZER 

DRAWING TITLE:	
General Arrangement drawings for Item 10-P-1386 A/B	
DRAWING No.	VP-10-00-MA-0003-1414
Sheet No.	1 OF 3
REV.	04
REV. MODIFICATION	MODIFIED
SEP. PARTS LIST:	FORMAT: A1
REPLACED BY:	DESIGN GROUP: Sulzer Pumpen (Deutschland) GmbH
	FIRST ANGLE PROJECTION <input checked="" type="checkbox"/>
-	SUBSTITUTE FOR: -
-	ORIGINAL SCALE: 1:13
GSS	GENERAL ARRANGEMENT
B2B 100-300; 1D+6+	GA ISOMETRIC AND DATA SHEET
Kangan	CHECKED: 15-Dec-2016 A. Mildenberger
100247188-0140	APPROVED: 15-Dec-2016 K. Engel
PART NO.	XXX
EN	PGA1002471880140-01
	1 / 3



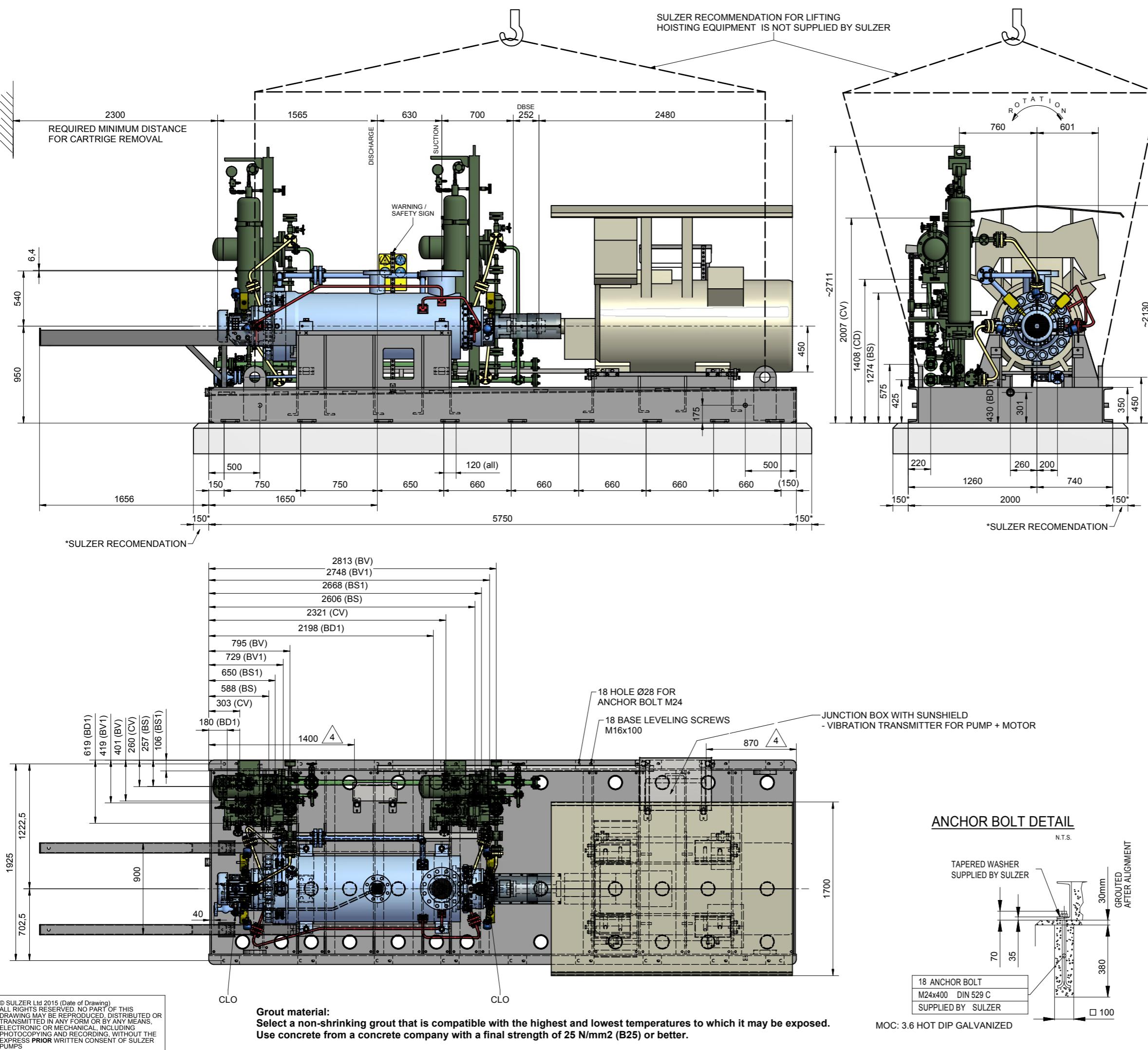
- NOTES:
1. **CAUTION!** CAREFULLY CHECK ALIGNMENT BEFORE STARTING UNIT. ALL HOLES IN FLANGES STRADDLE CENTERLINES. THE CONNECTION OF PIPES TO THE UNIT HAS TO BE STRESS FREE.
 2. COLORS ARE NOT INTENDED TO REPRESENT "AS SHIPPED" PAINT REQUIREMENTS. THEY ARE FOR QUICK IDENTIFICATION OF PIPING AND EQUIPMENT.
 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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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

COG	X	Y	Z
PUMP	1550	0	950
COUPLING	3105	0	950
BASEPLATE	2724	198	306
MOTOR	4616	0	950
PLAN 53B DE	590	795	1395
PLAN 53B NDE	2558	795	1395
PACKAGE	2943	79	802
COG=CENTRE OF GRAVITY			

MAINTENANCE WEIGHT PUMP: 1962 kg	
APPROXIMATE WEIGHTS	
PUMP: 4848 kg	
MOTOR: 4900 kg	
BASEPLATE: 3500 kg	
SEALSYSTEM: 500 kg	
AUXILIARY: 200 kg	
TOTAL: 13948 kg	

SULZER EN PGA1002471880140-01 1 / 3



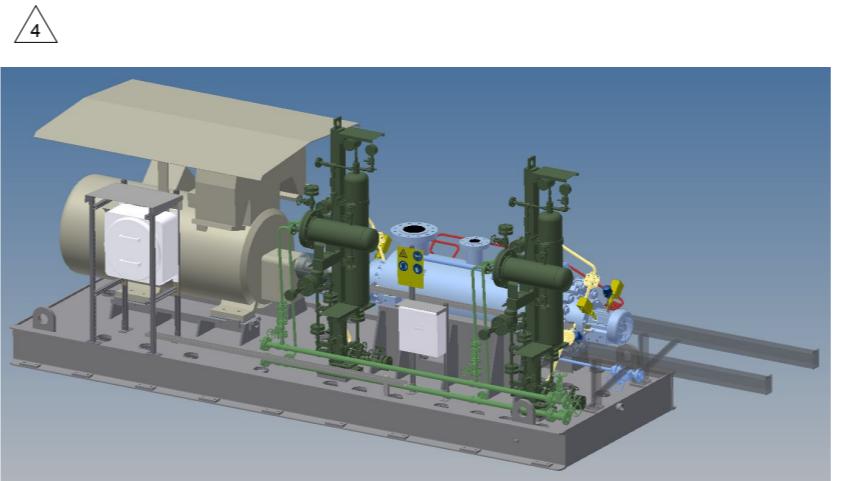
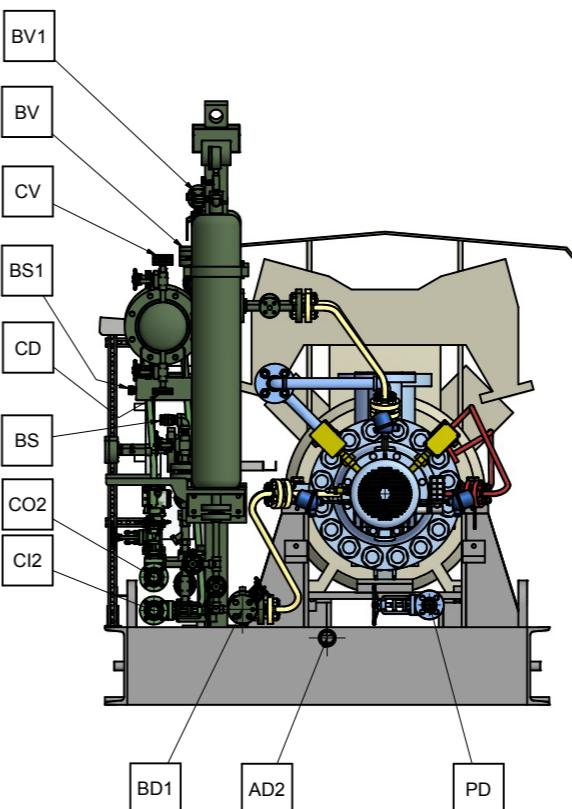
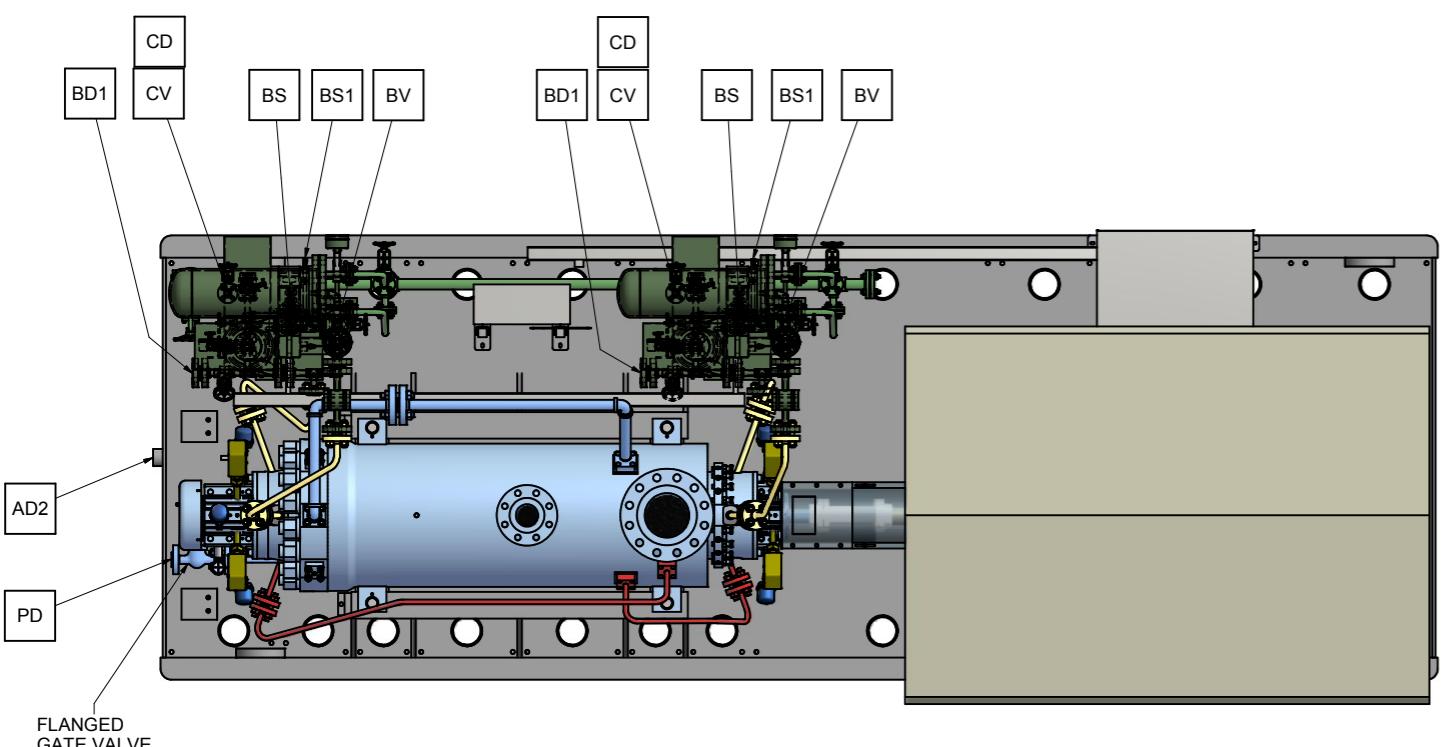
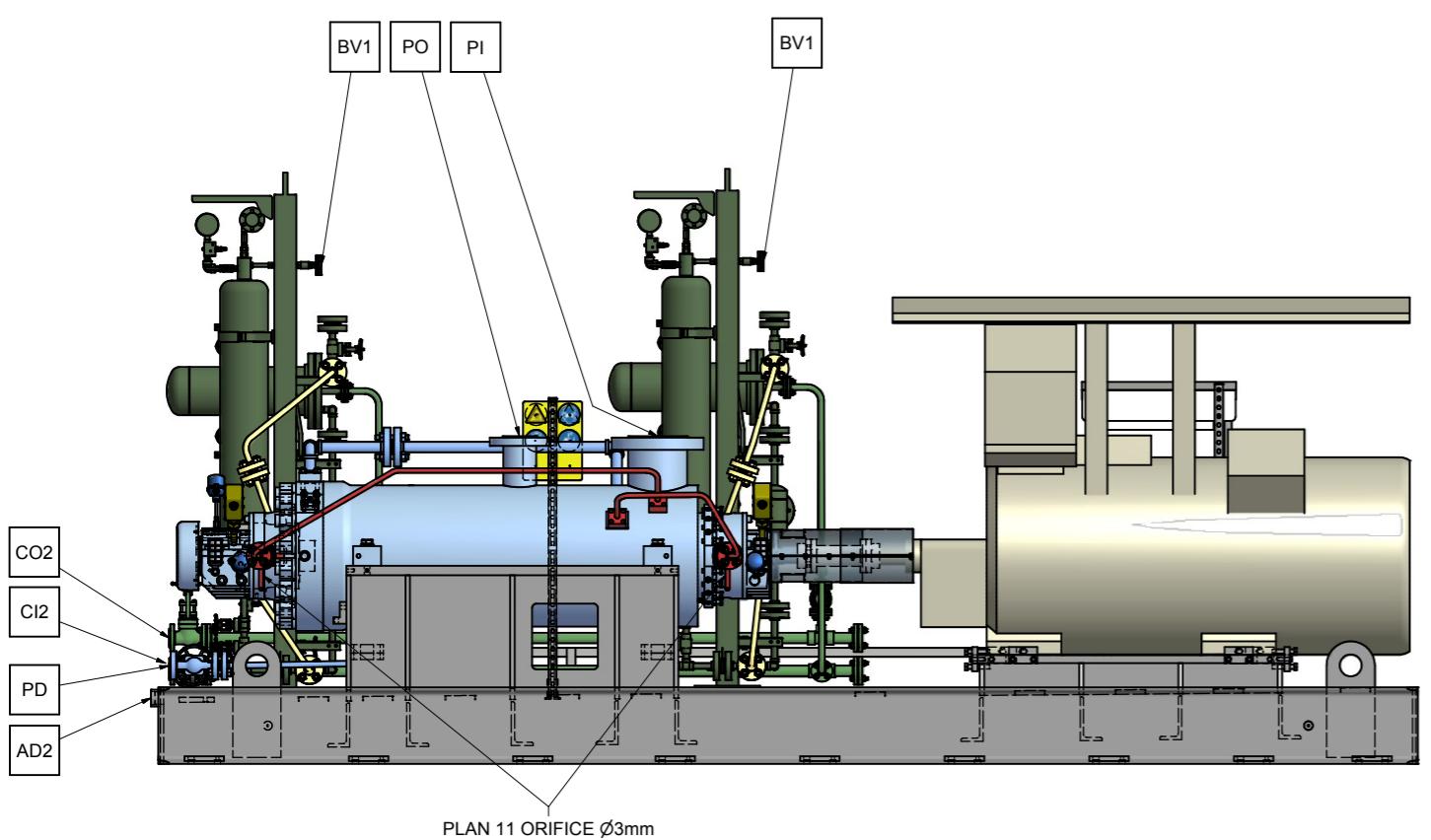
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JOB/PROJECT:	KANGAN C2 RECOVERY AND FRACTIONATION PLANT
CUST. P.O. NO.:	KP-10-00-PS-MA-PO-0003
SERVICE:	BUTANE INJECTION PUMP
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100247188-0140

IDENTIFICATION NUMBERS

SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583652	10-P-1386A	10-M-1386A
583653	10-P-1386B	10-M-1386B
-	-	-
-	-	-
-	-	-

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	UNLESS OTHERWISE SPECIFIED TOLERANCES ≤ 500 mm ± 3mm > 500 mm ± 12mm
	AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25



04	05.02.18	"R"	For Approval	SW	AM	KE	PL
03	13.09.17	"R"	For Approval	SW	AM	KE	PL
02	19.06.17	"R"	For Approval	SW	AM	KE	PL
01	01.03.17	"R"	Revised Issue	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 : 1:17

SULZER



DRAWING TITLE:
General Arrangement drawings for Item 10-P-1386 A/B
DRAWING No. VP-10-00-MA-0003-1414 SHEET No. 3 OF 3 REV. 04

CONNECTION LEGEND			
ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	8"	ASME B16.5 - 900RTJ
PO	PUMP DISCHARGE NOZZLE	4"	ASME B16.5 - 900RTJ
PD	PUMP DRAIN	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

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: 1:17
SSG	B2B 100-300; 1D+6+	DRAWN: 14-Dec-2016 St. Wetzel	CHECKED: 15-Dec-2016 A. Mildenberger	APPROVED: 15-Dec-2016 K. Engel
B2B 100-300; 1D+6+	Kangan	GENERAL ARRANGEMENT CONNECTION LAYOUT		
	100247188-0140	GENERAL ARRANGEMENT DRAWING		
	PART NO. XXX	EN PGA1002471880140-01	3 / 3	