

PUMP SPECIFICATIONS	
SIZE & TYPE:	HSB 10x14x20,63
SPEED:	(see MOTOR SPECIFICATIONS)
ROTATION:	CCW (AS VIEWED FROM DRIVER)
DISCH FLG:	10" CLASS: 600RF Standard: ASME B16.5
SUCT FLG:	14" CLASS: 600RF Standard: ASME B16.5
MECH SEAL TYPE:	CHETRA TYP 851BT-095,5
MECH SEAL DRG:	25517/1-17-10-P-1481 A/B API CODE: 23A-PI/FR-089-11/53B
API PIPING PLANS:	11, 53B

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

DRIVER SPECIFICATIONS	
MOTOR:	SCHORCH KR5829G-DA02
FRAME:	630
kW:	740
PHASE:	3
FURNISHED BY:	SULZER
ENCLOSURE:	ZONE 2, IIB, T3
SPEED:	2976 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:	LEAN AMDEA PUMP
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100247188-0050

IDENTIFICATION NUMBERS		
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583635	10-P-1481A	10-M-1481A
583636	10-P-1481B	10-M-1481B
-	-	-

<input checked="" type="checkbox"/> CERTIFIED FINAL	DO NOT SCALE. DIMENSIONS: mm
	UNLESS OTHERWISE SPECIFIED
	TOLERANCES

≤ 500 mm ± 3mm
≥ 500 mm ± 12mm

AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

DRAWING CONTENT	
SHEET DESCRIPTION	
GA ISOMETRIC DATA SHEET	SHEET NO. 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"/> Corrected: Vendor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "3: Previous 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 documents according to the comments/reason for rejection. All corrected documents shall be resubmitted before starting the Manufacturing.
Above checkmarks indicate the E&D responsibility of the vendor. Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	
DATE :  DEPT. : Signature :	
Only for internal review CV PI EL IN MC MA ST AR PR SA HV TL	

03	30.11.17	"R"	For Approval	SW	AM	KE	PL
02	06.11.17	"R"	For Approval	SW	AM	KE	PL
01	29.08.17	"R"	For Approval	SW	AM	KE	PL
00	17.05.17	"F"	For Approval	SW	AM	KE	PL
REV.	DATE	Status	Purpose of Issue	PRE'P.	CH'C'D.	APP'D.	AUTH'D.

KANGAN
C2 RECOVERY & FRACTIONATION PLANT



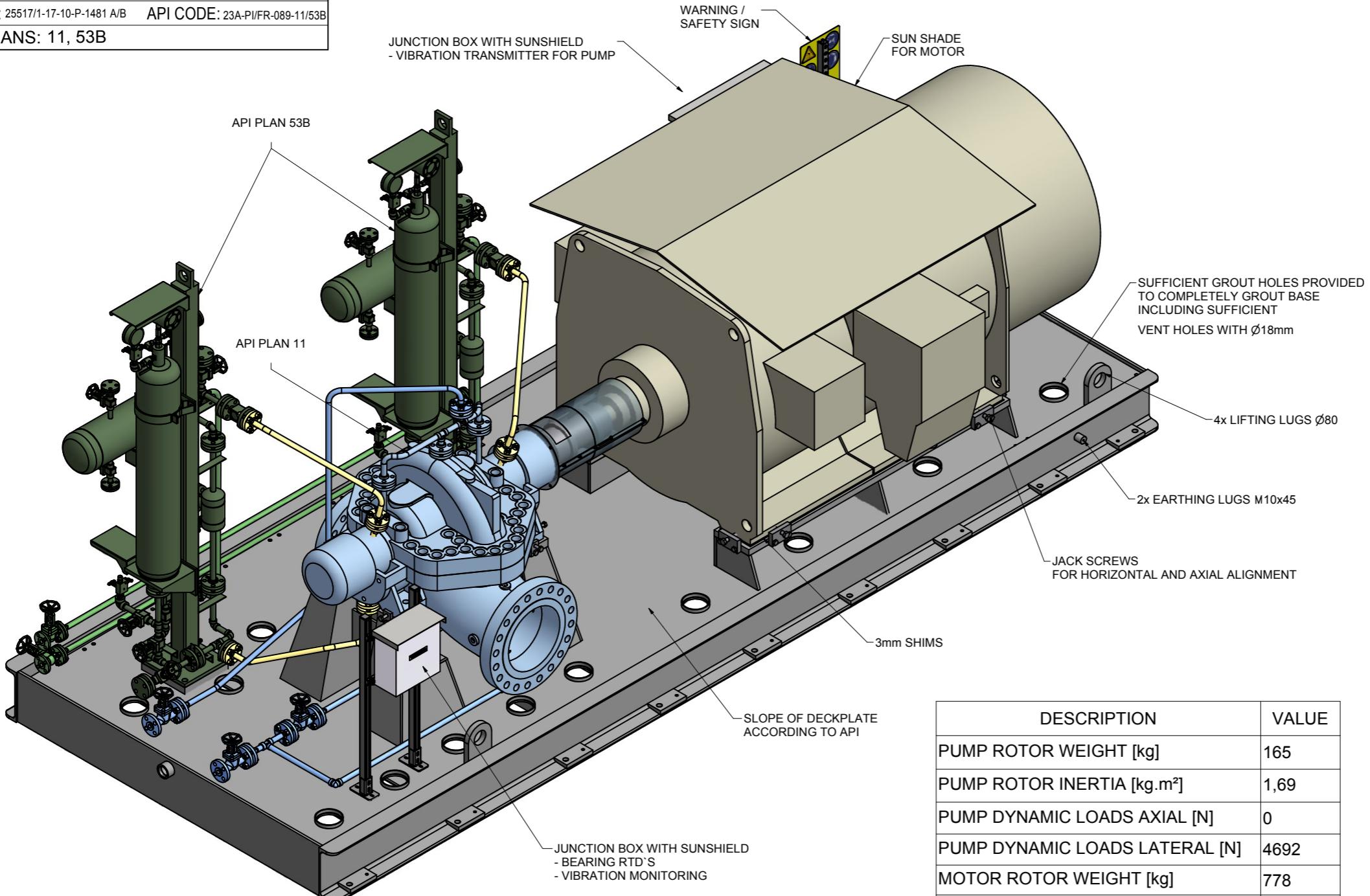
P.O. No.: KP-10-00-PS-MA-PO-0003 SCALE : 1:12

SULZER 

DRAWING TITLE: Dimensional outline drawings for Item 10-P-1481 A/B

DRAWING No. VP-10-00-MA-0003-0514 SHEET No. 1 OF 3 REV. 03

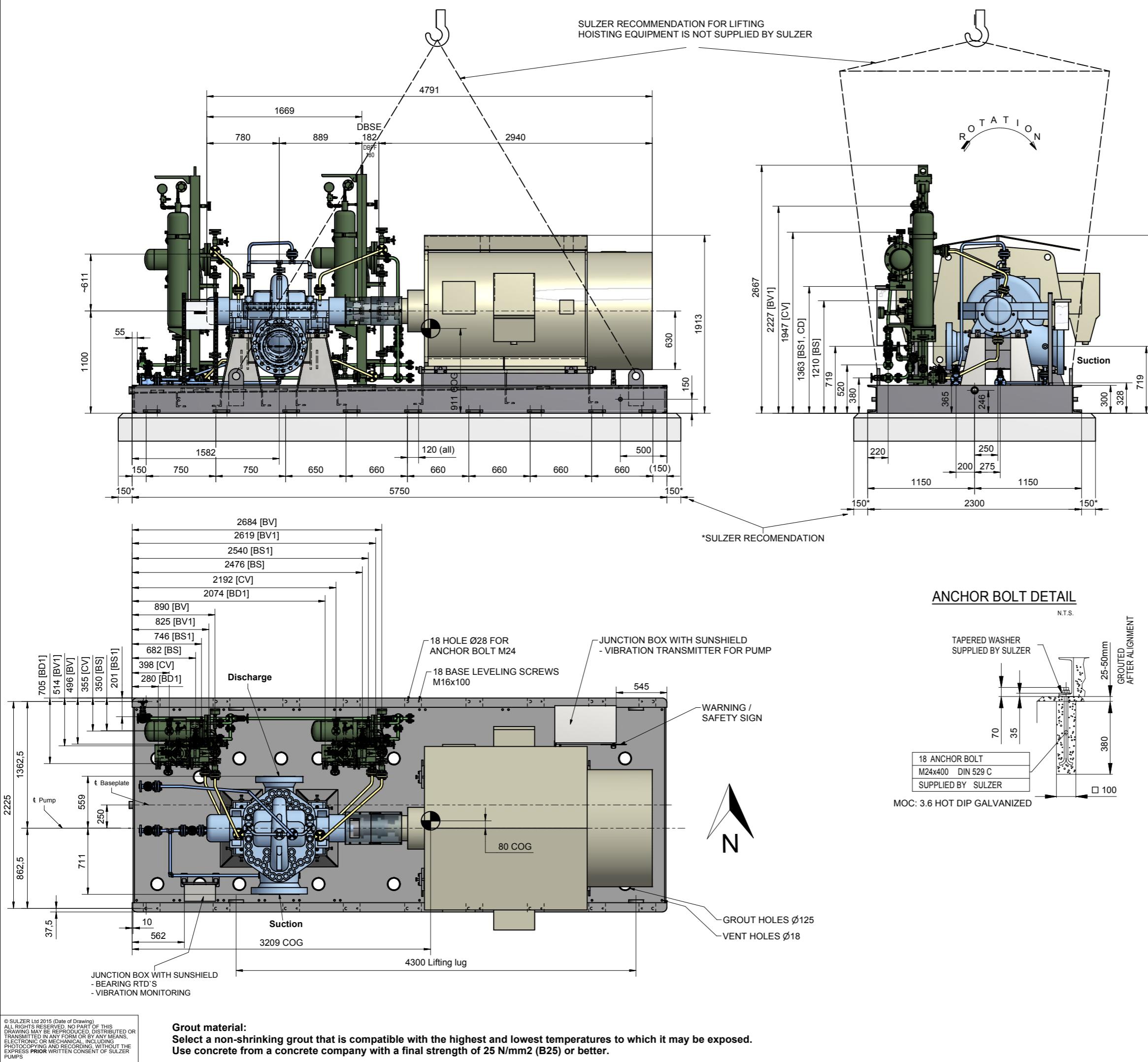
REV.	MODIFICATION	MODIFIED	CHECKED	APPROVED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: Sulzer Pumpen (Deutschland) GmbH	FIRST ANGLE PROJECTION <input checked="" type="checkbox"/>
REPLACED BY:	-	SUBSTITUTE FOR:	-	ORIGINAL SCALE: -
HSB	HSB 10x14x20,63			DRAWN: 19-Dec-2016 St. Wetzel
Kangan	100247188-0050			CHECKED: 20-Dec-2016 A. Mildenberger
				APPROVED: 02-Dec-2016 K. Engel
SULZER	PART NO. XXX	EN	PGA1002471880050-01	1 / 3

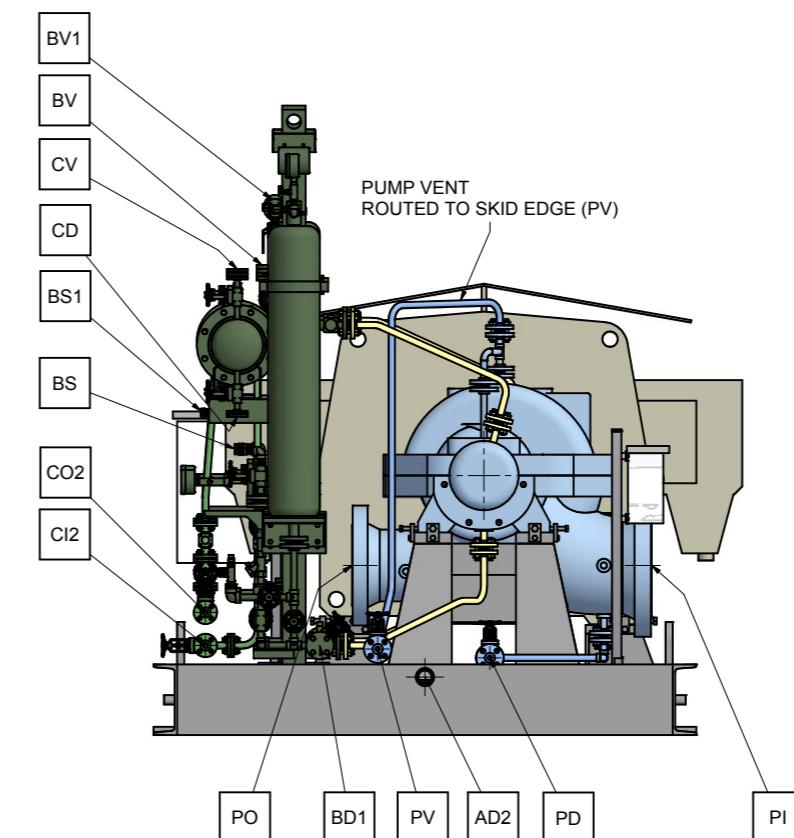
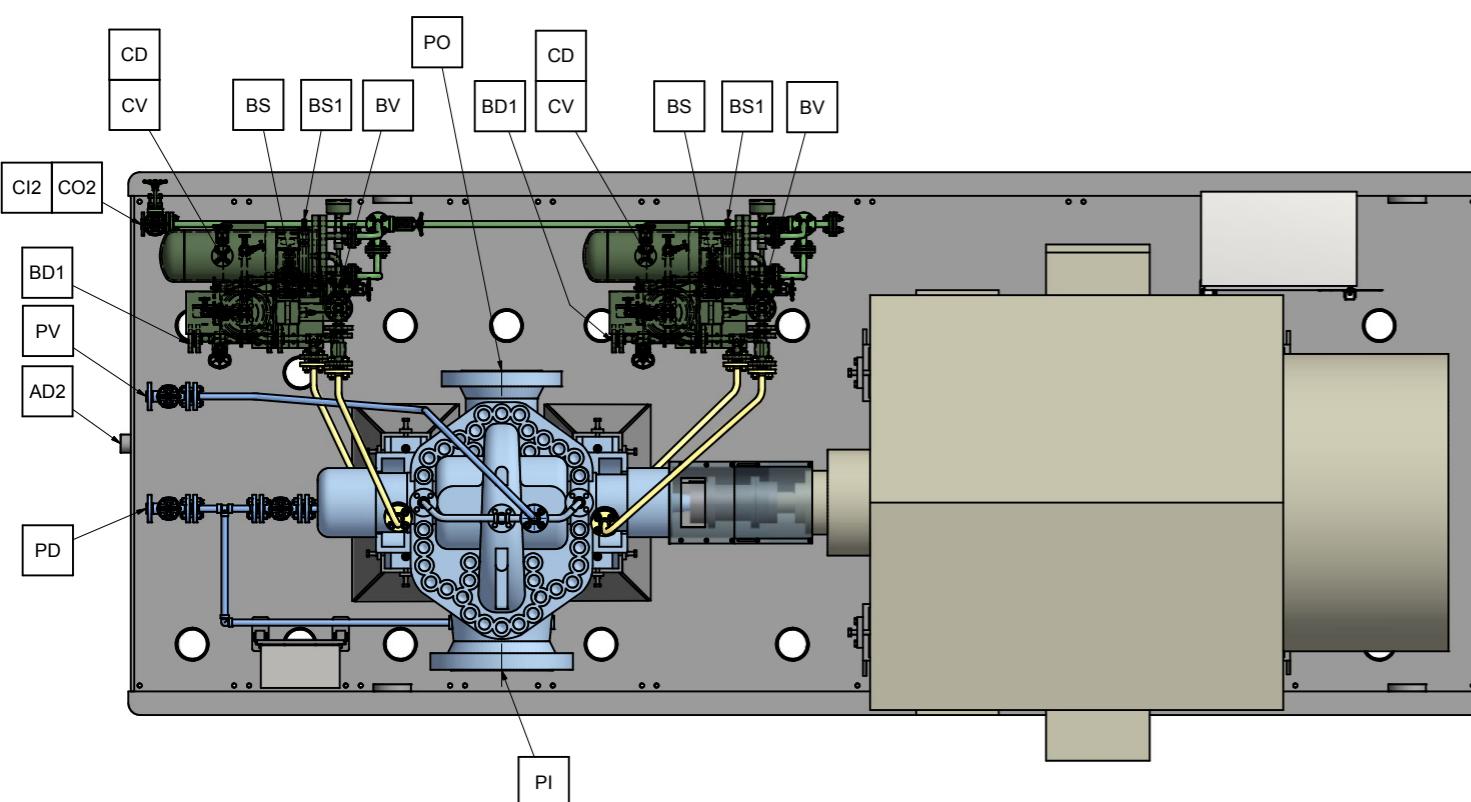
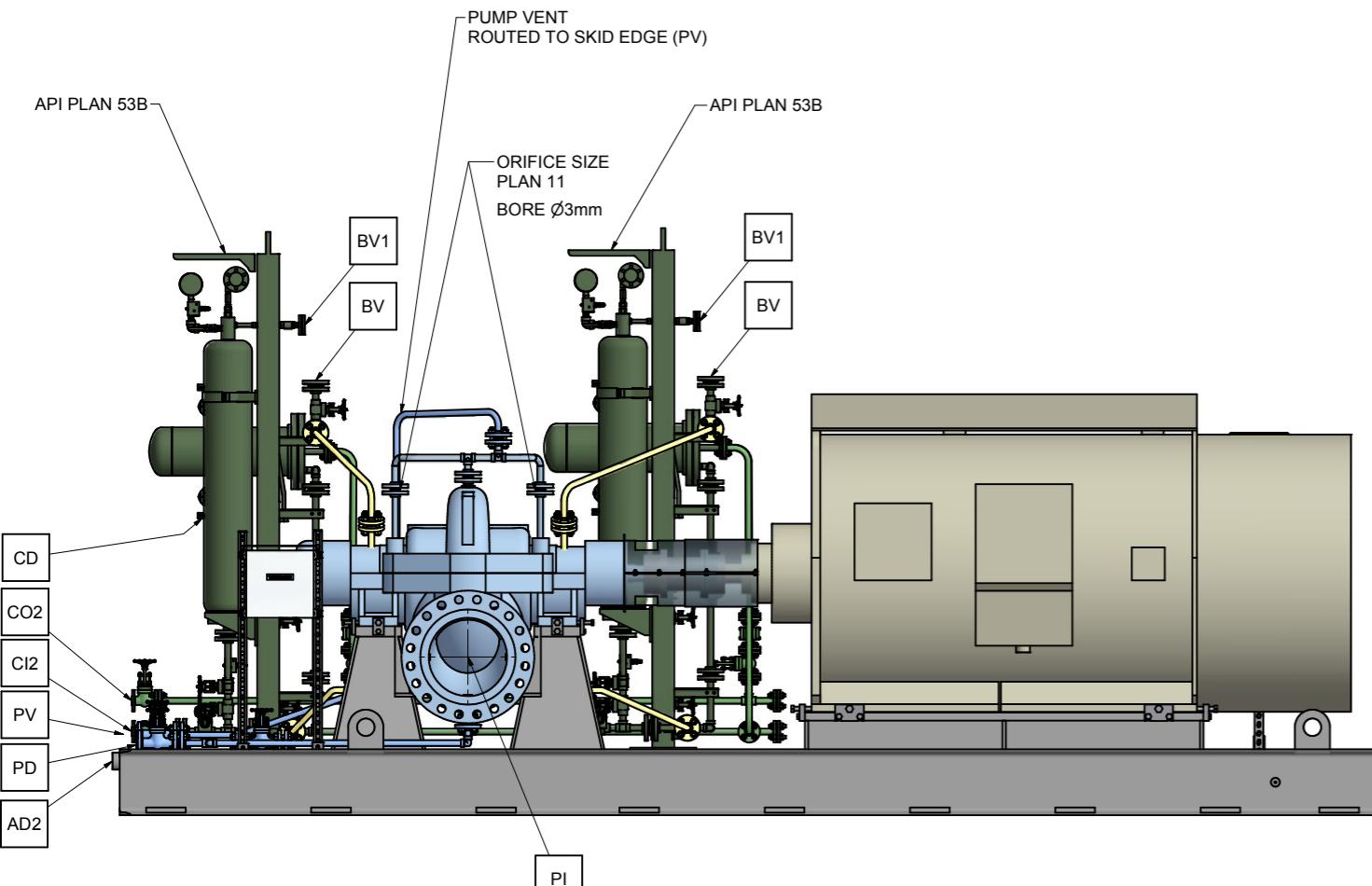


DESCRIPTION	VALUE
PUMP ROTOR WEIGHT [kg]	165
PUMP ROTOR INERTIA [kg.m²]	1,69
PUMP DYNAMIC LOADS AXIAL [N]	0
PUMP DYNAMIC LOADS LATERAL [N]	4692
MOTOR ROTOR WEIGHT [kg]	778
MOTOR ROTOR INERTIA [kg.m²]	13,1
MOTOR DYNAMIC LOADS LATERAL [N]	606

MAINTENANCE WEIGHT PUMP: 525 kg

APPROXIMATE WEIGHTS
PUMP: 2800 kg
MOTOR: 6600 kg
BASEPLATE: 2900 kg
SEALSYSTEM: 500 kg
AUXILIARY: 200 kg
TOTAL: 13000 kg





CONNECTION LEGEND			
ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	14"	ASME B16.5 - 600RF
PO	PUMP DISCHARGE NOZZLE	10"	ASME B16.5 - 600RF
PD	PUMP DRAIN	3/4"	ASME B16.5 - 600RF
PV	PUMP VENT	3/4"	ASME B16.5 - 600RF
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 Quick Coupling
BS1	PLAN 53B NITROGEN CHARGE	1/4"	BSPP-F Quick Coupling
BD1	PLAN 53B RESERVOIR DRAIN	3/4"	ASME B16.5 - 600 RF - BLIND FLANGE
BV	PLAN 53B HIGH POINT VENT	3/4"	ASME B16.5 - 600 RF - BLIND FLANGE
BV1	PLAN 53B ACCUMULATOR VENT	3/4"	ASME B16.5 - 600 RF - BLIND FLANGE
CV	PLAN 53B COOLER VENT	1/2"	ASME B16.5 - 150 RF - BLIND FLANGE
CD	PLAN 53B COOLER Drain	1/2"	ASME B16.5 - 150 RF - BLIND FLANGE

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PUMPS

CONTRACT DATA

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USER:	KANGAN PETRO REFINING CO. (KPRC)
JOB/PROJECT:	KANGAN C2 RECOVERY AND FRACTIONATION PLANT
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UNLESS OTHERWISE SPECIFIED

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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 : 1:16

SULZER



DRAWING TITLE:
Dimensional outline drawings for Item 10-P-1481 A/B

DRAWING No. VP-10-00-MA-0003-0514 SHEET No. 1 OF 3 REV. 03

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:

HSB	GENERAL ARRANGEMENT	DRAWN: 19-Dec-2016
HSB 10x14x20,63	CONNECTION LAYOUT	St. Wetzel
Kangan	-	CHECKED: 20-Dec-2016
100247188-0050	GENERAL ARRANGEMENT DRAWING	A. Mildenberger
SULZER	PART NO. XXX	APPROVED: 02-Dec-2016
	EN	K. Engel
	PGA1002471880050-01	3 / 3