

PUMP SPECIFICATIONS			
SIZE & TYPE: OHH 6x8x26-1			
SPEED: (see MOTOR SPECIFICATIONS)			
ROTATION: CCW (AS VIEWED FROM DRIVER)			
DISCH FLG:	6"	CLASS: 300 RF	Standard: ASME B16.5
SUCT FLG:	8"	CLASS: 300 RF	Standard: ASME B16.5
MECH SEAL TYPE: EagleBurgmann			
MECH SEAL DRG:H75VA4-100-S4P0-DE003A1 API CODE: 21A-LIN-100			
API PIPING PLANS: 23, 32, M			

COUPLING SPECIFICATIONS	
MFR: Metastream	
TYPE: TSKS	SIZE: 0230
COUPLING-GUARD MATERIAL: Brass	

DRIVER SPECIFICATIONS			
MOTOR: Schorch			
FRAME: 315			
kW:	160	SPEED:	1500 rpm
PHASE:	3	VOLTAGE:	6000
FURNISHED BY:	SULZER	CYCLE:	50 Hz

CONTRACT DATA	
PURCHASER:	Sulzer Pumps Spain SA
USER:	Kangan Petro Refining Co
JOB/PROJECT:	Kangan Utility and Offsite Project
CUST. P.O. NO.:	KP-80-10-PS-MA-PO-0001-00
SERVICE:	Contaminated Condensate Pump
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100263244-0010

IDENTIFICATION NUMBERS		
SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
588330	87-P-3001 A	87-M-3001-A
588331	87-P-3001 B	87-M-3001-B

		DO NOT SCALE. DIMENSIONS: mm
		UNLESS OTHERWISE SPECIFIED TOLERANCES
		≤ 500 mm ± 3mm
		> 500 mm ± 12mm

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

Code1	Approved: No comment and the document is released for Manufacturing.
Code2	Approved with comment: Vendor shall correct, review and resubmit the document. The document can be released for Manufacturing if changes incorporated.
Code3	Commented: Vendor shall correct, review and resubmit the document by the date specified. The document shall be released under the Status of "To be Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing.
Code4	Not Accepted (Rejected): Vendor shall re-work/re-design/re-specify the contents entirely 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 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
ST	AR
EL	IN
ME	MA
PR	SA
IV	TL

04	08.10.18	R	For Approval	JL	VS	RS	CL
03	08.08.18	R	For Approval	JL	VS	RS	CL
02	11.01.18	R	For Approval	JL	VS	RS	CL
01	22.11.17	R	For Approval	JL	VS	RS	CL
00	02.06.17	F	For Approval	JL	VS	RS	CL
Rev.	Date	Status	Purpose of Issue	PRE'D.	CHK'D.	APR'D.	AUZ'D.

Kangan Utility & Offsite Project		
P.O. No.: KP-80-10-PS-MA-PO-0001-00		SCALE : 1:10

		
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DRAWING TITLE:	
Equipment Outline (GAD) including nozzle location	

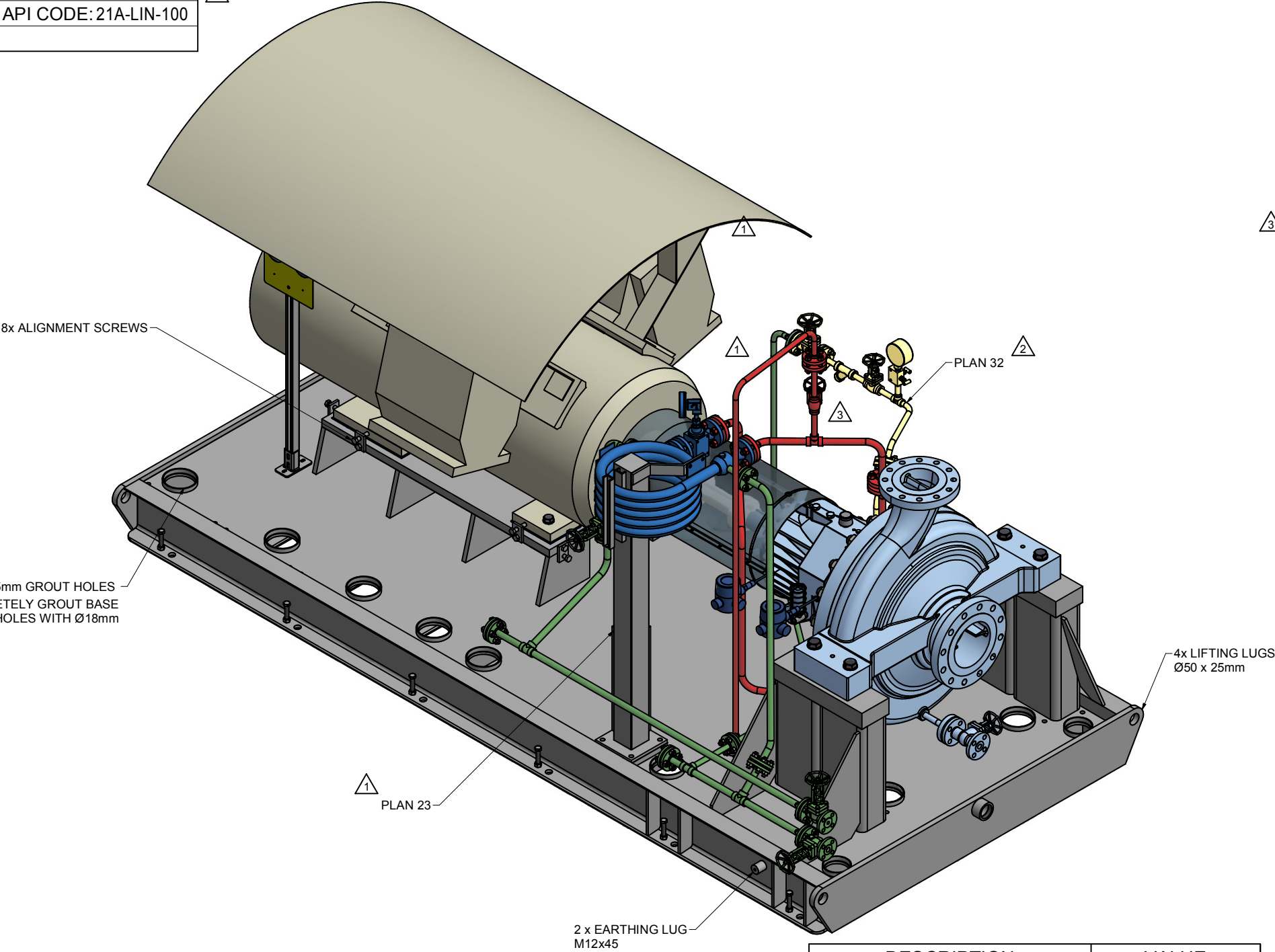
DRAWING No.	VP-80-00-MA-0001-0039	SHEET No.	1 OF 3	REV.	
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Final certified		08/10/2018	08/10/2018	08/10/2018
		J. LOPEZ	V. SANCHEZ	R. SANCHEZ

REV.	MODIFICATION	NO	FORMAT: A1	DESIGN GROUP: -	FIRST ANGLE PROJECTION
SEPPARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: -	FIRST ANGLE PROJECTION	
REPLACED BY:	-	SUBSTITUTE FOR:	ORIGINAL SCALE: 1:10		

OHH 6X8X26-1	GENERAL ARRANGEMENT GA ISOMETRIC AND DATA SHEET	DRAWN: 12/MAY/2017 J. LOPEZ
100263244-0010	GENERAL ARRANGEMENT DRAWING	CHECKED: 12/MAY/2017 V. SANCHEZ
		APPROVED: 12/MAY/2017 R. SANCHEZ

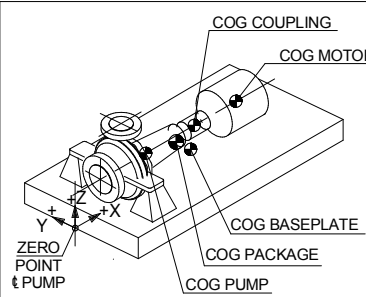
	PART NO. -	EN	PGA1002632440010-01	1 / 3
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NOTES:

- 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.

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PUMPS

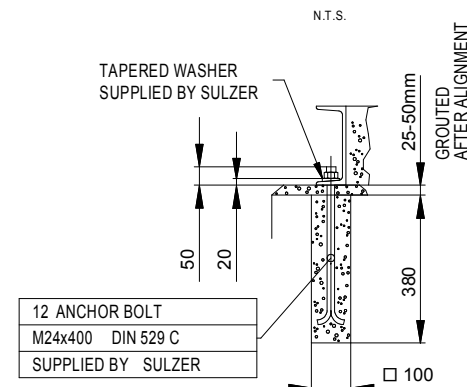
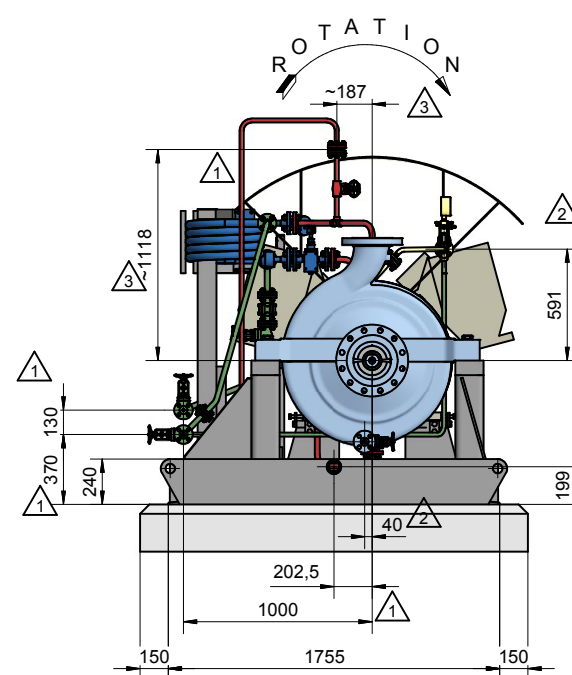


COG	X	Y	Z
PUMP	945	21	764
COUPLING	1639	0	762
BASEPLATE	1893	154	23
MOTOR	2892	6	850
SYSTEM	1263	829	785
PACKAGE	2089	76	575

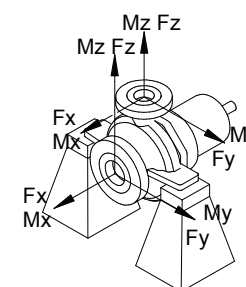
COG=CENTER OF GRAVITY

DESCRIPTION	VALUE
PUMP DYNAMIC LOADS [N] RADIAL	545
PUMP DYNAMIC LOADS [N] AXIAL	233
MOTOR DYNAMIC LOADS [N] RADIAL	N/A
MAINTENANCE WEIGHT PUMP [Kg]	858

APPROXIMATE WEIGHTS	
PUMP:	1372 kg
MOTOR:	2550 kg
BASEPLATE:	1804 kg
AUXILIARY:	150 kg
TOTAL:	5876 kg



FORCE IN (N) MOMENTS IN (Nm)



		SUCT	DISCH
FORCE	Fx	9780	4980
	Fy	7560	4100
	Fz	6220	6220
	Fr	13840	8960
MOMENTS	Mx	7060	4600
	My	3520	2360
	Mz	5160	3520
	Mr	9420	6260

CONTRACT DATA	
PURCHASER:	Sulzer Pumps Spain SA
USER:	Kangan Petro Refining Co
JOB/PROJECT:	Kangan Utility and Offsite Project
CUST. P.O. NO.:	KP-80-10-PS-MA-PO-0001-00
SERVICE:	Contaminated Condensate Pump
INSTALLED AT:	IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100263244-0010

IDENTIFICATION NUMBERS

SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
588330	87-P-3001 A	87-M-3001-A
588331	87-P-3001 B	87-M-3001-B

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

DO NOT SCALE. DIMENSIONS: mm

UNLESS OTHERWISE SPECIFIED
TOLERANCES

≤ 500 mm	± 3mm
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00	02.06.17	F	For Approval	JL	VS	RS	CL
Rev. Date		Status	Purpose of Issue	PRE'D.	CHK'D.	APR'D.	AUZ'D.

Kangan Utility & Offsite Project



P.O. No.: KP-80-10-PS-MA-PO-0001-00

SCALE : 1:20

SULZER



DRAWING TITLE:

Equipment Outline (GAD) including nozzle location

DRAWING No.	VP-80-00-MA-0001-0039	SHEET No.	2 OF 3	REV. 04
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	No changes on this sheet
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(d)	No changes on this sheet	08/10/2018	08/10/2018	08/10/2018
		J. LOPEZ	V. SANCHEZ	R. SANCHEZ

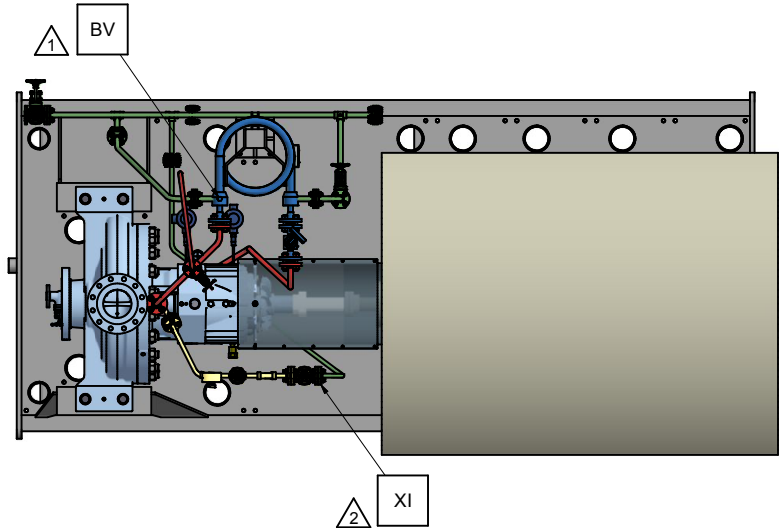
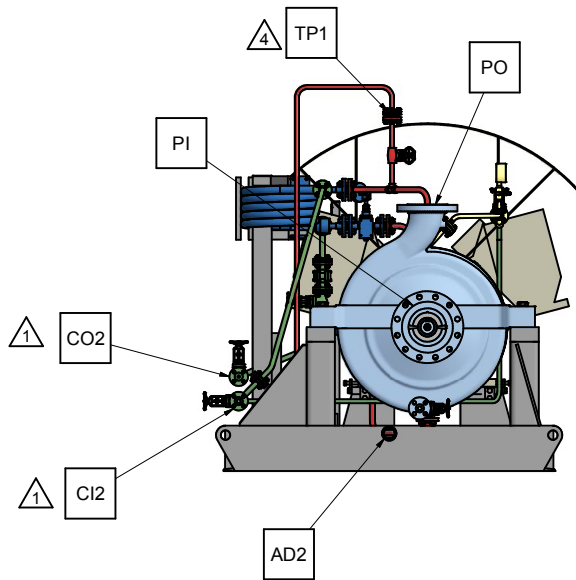
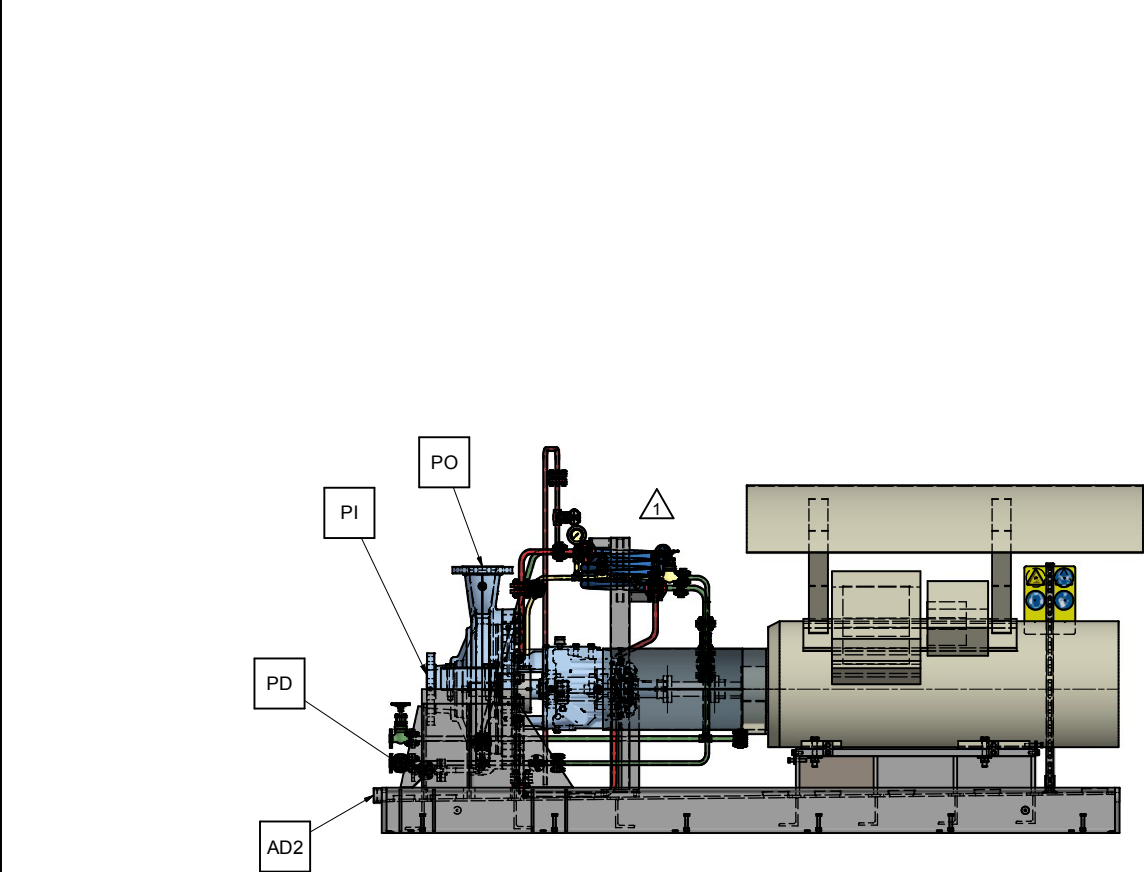
REV. MODIFICATION		DATE		DRAWN BY		CHECKED BY		APPROVED BY	
SEPT. PARTS LIST:		NO	FORMAT: A1	DESIGN GROUP: -			FIRST ANGLE PROJECTION		
REPLACED BY:		- SUBSTITUTE FOR:			ORIGINAL SCALE: 1:20				

REFLECTED BY:	SUBSTITUTE FOR:
OHH 6X8X26-1	GENERAL ARRANGEMENT FOUNDATION AND NOZZLE

100263244-0010	GENERAL ARRANGEMENT DRAWING
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SULZER	PART NO.	EN PGA1002632440010-01	2 / 3
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PUMPS



CONNECTION LEGEND			
ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	8"	300 RF
PO	PUMP DISCHARGE NOZZLE	6"	300 RF
PD	PUMP DRAIN WITH VALVE	0.75"	300 RF
AD2	BASE DRAIN	2"	NPT FEMALE
CI2	COOLING HEADER - INLET	0.75"	150 RF
CO2	COOLING HEADER - OUTLET	0.75"	150 RF
BV	AIR VENT PLAN 23	0.5"	NPT FEMALE
TP1	SEAL FLUSH VENT	0.50"	600 RF / PIPE


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PUMPS




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USER:	Kangan Petro Refining Co
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SERVICE:	Contaminated Condensate Pump
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PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
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Rev.	Date	Status	Purpose of Issue	PRE'D.	CHK'D.	APR'D.	AUZ'D.

Kangan Utility & Offsite Project				 KANGAN PETRO REFINING CO.			
P.O. No.: KP-80-10-PS-MA-PO-0001-00				SCALE : 1:20			

Kangan Utility & Offsite Project		 KANGAN PETRO REFINING CO.
P.O. No.: KP-80-10-PS-MA-PO-0001-00		SCALE : 1:20
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DRAWING No.	VP-80-00-MA-0001-0039	SHEET No.	3 OF 3	REV. 04
Connection legend updated		08/10/2018	08/10/2018	08/10/2018
		J. LOPEZ	V. SANCHEZ	R. SANCHEZ

REV.	MODIFICATION	MODIFIED	CHECKED	APPROVED
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP: -	FIRST ANGLE PROJECTION
REPLACED BY:	-	SUBSTITUTE FOR:	ORIGINAL SCALE: 1:20	
OHh 6X8X26-1		GENERAL ARRANGEMENT CONNECTION LAYOUT		DRAWN: 12/MAY/2017 J. LOPEZ
100263244-0010		GENERAL ARRANGEMENT DRAWING		CHECKED: 12/MAY/2017 V. SANCHEZ
SULZER		PART NO. -	EN	APPROVED: 12/MAY/2017 R. SANCHEZ
		PGA1002632440010-01		3 / 3