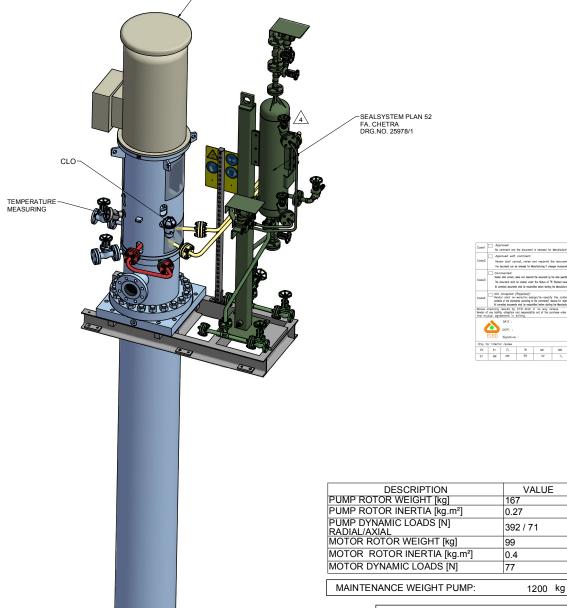
## PUMP SPECIFICATIONS SIZE & TYPE: TTMC50-180/13 SPEED: (see MOTOR SPECIFICATIONS) ROTATION: CCW (AS VIEWED FROM DRIVER) DISCH FLG: 2" CLASS: 300RF Standard: ASME B16.5 SUCT FLG: 4" CLASS: 300RF Standard: ASME B16.5 MECH SEAL TYPE: CHETRA TYP 851TB-042 MECH SEAL DRG: 25510-16-10-P1687A API CODE: BDPFP/N API PIPING PLANS: 13 + 52

COUPLING SPECIFICATIONS				
MFR: Metastream				
TYPE: TSKS	SIZE:	0033		
COUPLING-GUARD MATERIAL:	BRASS			

DRIVER SPECIFICATIONS				
MOTOR:	Schorch			
FRAME:	KD1250M-AA45P-M	ENCLOSURE:	ZONE 2,IIB, T3	
kW:	55	SPEED:	2972 rpm	
PHASE:	3	VOLTAGE:	400	
FURNISH	IED BY: SULZER	CYCLE:	50 Hz	



-SUNSHADE FOR MOTOR

- 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.
- COLORS ARE NOT INTENDED TO REPRESENT "AS SHIPPED" PAINT REQUIREMENTS. THEY ARE FOR QUICK IDENTIFICATION OF PIPING
- ARE FOR QUICK DENIFICATION OF PIPING AND EQUIPMENT. PIPING AND EQUIPMENT AND EQUIPMENT ARE REPRESENTATIONS ONLY, ACTUAL LOCATION AND ORIENTATION MONLY, ACTUAL LOCATION AND ORIENTATION NEW YARY PER STANDARDS, UNLESS OTHERWISE DIMENSIONED. THE SUCCION PIPING DOR INTAKE DESIGNATION OF THE PIPING AND AND THE SUCCION PIPING THE PIPING AND THE SUCCION PIPING AND THE SUCCION PIPING AND THE PIPING AND THE SUCCION PIPING PIPING AND THE SUCCION PIPING AND THE SUCION PIPING AND THE SUCCION PIPING AND
- STANDARDS ANSI/ HI 9.8-1998 "PUMP INTAKE DESIGN" REQUIREMENTS.

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TRANSMITTED IN ANY FORM OR BY ANY MEANS,
PHOTOCOPYING AND RECORDING, WITHOUT THE
EXPRESS PRIOR WRITTEN CONSENT OF SULZER
PUMPS



1200 kg

APPROXIMATE WEIGHTS				
PUMP:	1735	kg		
PUMP WITHOUT CAN /	1200	kg		
CAN:	535	kg		
MOTOR:	545	kg		
BASEPLATE:	110	kg		
AUXILIARY:	150	kg		
TOTAL:	2540	kg		

CONTRACT [	ATAC
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Kangan Petro-Refining Co.

PURCHASER: AIOTEC GmbH

JOB/PROJECT:

Kangan C2 Recovery and Fractionation Plant

CUST. P.O. NO.:

USER:

SERVICE:

INSTALLED AT:

KP-10-00-PS-MA-P0-0003 OFF SPEC. PROPANE RECYCLE PUMP KANGAN- ASSALUYEH - IRAN

PUMP OEM: Sulzer Pumpen (Deutschland) GmbH SULZER ORDER NO.: 100247188-0180

## IDENTIFICATION NUMBERS

	SULZER SERIAL NO.	CUSTOMER TAG NO'S		
		PUMP	DRIVER	
	583656	10-P-1687	10-M-1687	

CERTIFIED FINAL

DO NOT SCALE. DIMENSIONS: mm

CERTIFIED FOR NOZZLE & FOUNDATION ONLY

UNLESS OTHERWISE SPECIFIED TOLERANCES

PRELIMINARY ONLY

≤ 500 mm ± 3mm > 500 mm ± 12mm

AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

## DRAWING CONTENT

2.0			
SHEET DESCRIPTION			
GA ISOMETRIC DATA SHEET			
FOUNDATION AND NOZZLE			
CONNECTION LAYOUT			

04	15.11.17	"R"	For Approval	TR	RS	CH	PL
03	08.08.17	"R"	For Approval	TR	RS	CH	PL
02	20.06.17	"R"	For Approval	TR	RS	СН	PL
01	03.03.17	"R"	For Approval	TR	RS	СН	PL
00	22.12.16	"F"	For Approval	TR	RS	СН	PL
REV.	DATE	Status	Purpose of Issue	PRE'P.	CHC'D.	APP'D.	AUTH'D.

KANGAN

C2 RECOVERY & FRACTIONATION PLANT



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

SCALE : 1:10





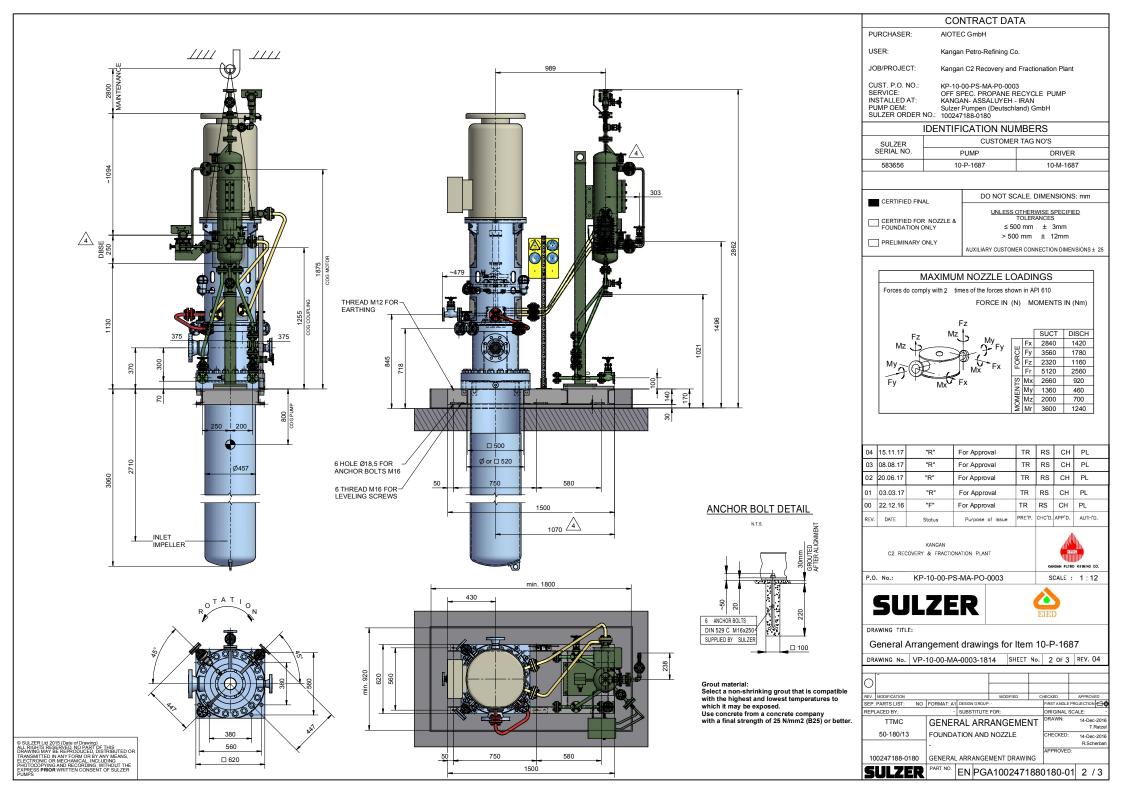
General Arrangement drawings for Item 10-P-1687

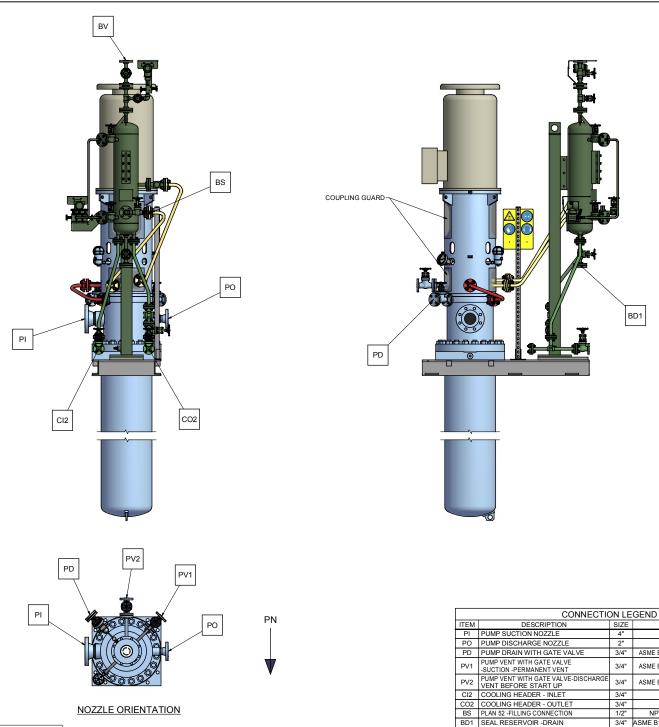
DRAWING No. VP-10-00-MA-0003-1814	SHEET No.	1 of 3	REV. 04
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V.	MODIFICATION				MODIFIED	С	HECKED	APPROVED
EP.	PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP			FIRST ANGLE	PROJECTION 🔾 🖨
EPI	LACED BY:		-	SUBSTITUTE	FOR:		ORIGINAL :	SCALE: -
	TTMC		GENEF	RAL ARR	ANGEME	NT	DRAWN:	14-Dec-2016 T.Ratzel
	50-180/13		GA ISOM	ETRIC AN	D DATA SHE	ΕT	CHECKED:	14-Dec-2016
			-					R.Scherban

PART NO. EN PGA1002471880180-01 1 / 3

100247188-0180 GENERAL ARRANGEMENT DRAWING





ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	4"	ASME B16.5 300 RF
PO	PUMP DISCHARGE NOZZLE	2"	ASME B16.5 300 RF
PD	PUMP DRAIN WITH GATE VALVE	3/4"	ASME B16.5 300 RF / GATE VALVE 300 RF
PV1	PUMP VENT WITH GATE VALVE -SUCTION -PERMANENT VENT	3/4"	ASME B16.5 300 RF / GATE VALVE 300 RF
PV2	PUMP VENT WITH GATE VALVE-DISCHARGE VENT BEFORE START UP	3/4"	ASME B16.5 300 RF / GATE VALVE 300 RF
CI2	COOLING HEADER - INLET	3/4"	ASME B16.5 150 RF
CO2	COOLING HEADER - OUTLET	3/4"	ASME B16.5 150 RF
BS	PLAN 52 -FILLING CONNECTION	1/2"	NPT-F WITH QUICK COUPLING
BD1	SEAL RESERVOIR -DRAIN	3/4"	ASME B16.5 300 RF WITH BLIND FLANGE
BV	SEAL RESERVOIR -VENT TO CLOSED DRAIN DRUM	3/4"	ASME B16.5 300 RF

CONTRACT DATA

PURCHASER: AIOTEC GmbH

USER: Kangan Petro-Refining Co.

JOB/PROJECT: Kangan C2 Recovery and Fractionation Plant

CUST. P.O. NO.: KP-10-00-PS-MA-P0-0003
SERVICE: OFF SPEC. PROPANE RECYCLE PU
INSTALLED AT: KANGAN- ASSALUVEH - IRAN
PUMP OEM: SULZER ORDER NO.: 100247188-0180 KP-10-00-PS-MA-P0-0003 OFF SPEC. PROPANE RECYCLE PUMP KANGAN- ASSALUYEH - IRAN

IFICATI	

SULZER	CUSTOMER	R TAG NO'S
SERIAL NO.	PUMP	DRIVER
583656	10-P-1687	10-M-1687

CERTIFIED FINAL

DO NOT SCALE. DIMENSIONS: mm

CERTIFIED FOR NOZZLE & FOUNDATION ONLY

UNLESS OTHERWISE SPECIFIED TOLERANCES ≤ 500 mm ± 3mm

> 500 mm ± 12mm PRELIMINARY ONLY

AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

04 15.11.17 TR RS CH PL "R" For Approval 03 08.08.17 "R" TR RS СН PL For Approval 02 20.06.17 "R" For Approval TR RS CH PL 01 03.03.17 For Approval TR RS CH PL 00 22.12.16 "F" For Approval TR RS CH REV. DATE Purpose of Issue PRE'P. CHC'D. APP'D. Status

KANGAN

C2 RECOVERY & FRACTIONATION PLANT

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

SCALE : 1:12





General Arrangement drawings for Item 10-P-1687

DRAWING No. VP-10-00-MA-0003-1814 SHEET No. 3 OF 3 REV. 04

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REV. MODIFICATION				MODIFIED	С	CHECKED		OVED	
SEP. PARTS LIST: NO	FORMAT: A1 DESIGN GROUP: ·					FIRST ANGLE PROJECTION			
REPLACED BY: - SU			UBSTITUTE FOR:			ORIGINAL SCALE: -			
TTMC	GENER	RAL A	٩RR	ANGEME	NT	DRAWN:		Dec-2016 T.Ratzel	
50-180/13	CONNECTION LAYOUT					CHECKED:	HECKED: 14-Dec-2016 R.Scherban		
100247188-0180	GENERAL ARRANGEMENT DRAWING					APPROVED:			
<b>SULZER</b>	PART NO.	EN PGA1002471880180-01						/ 3	