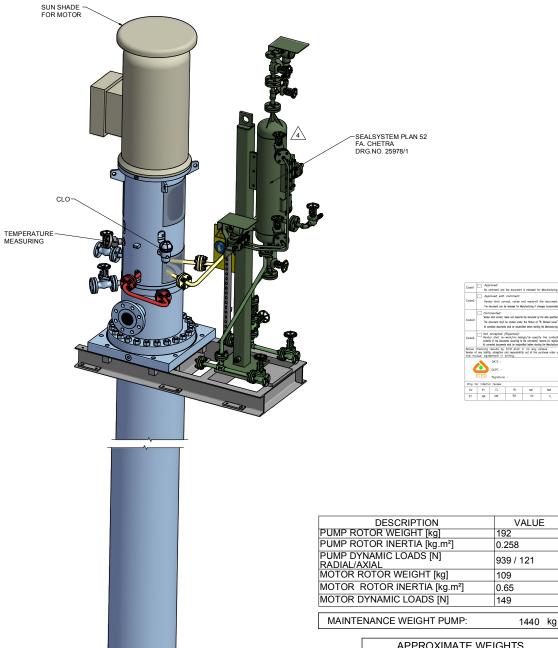
PUMP SPECIFICATIONS SIZE & TYPE: TTMC50-220/5 SPEED: (see MOTOR SPECIFICATIONS) ROTATION: CCW (AS VIEWED FROM DRIVER) DISCH FLG: 2" CLASS: 300RF Standard: ASME B16.5 SUCT FLG: 4" CLASS: 300RF Standard: ASME B16.5 MECH SEAL TYPE: CHETRA TYP 851TB-042 MECH SEAL DRG: 25510-16-10-P1682A/B API CODE: BDPFP/N API PIPING PLANS: 13 + 52

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

	DRIVER SPECIFICATIONS							
MOTOR: Schorch								
	FRAME:	KD1280S-AA45P-M	ENCLOSURE:	ZONE 2,IIB,T3				
	kW:	55	SPEED:	2978 rpm				
	PHASE:	3	VOLTAGE:	400				
	FURNISH	IED BY: SULZER	CYCLE:	50 Hz				



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
- AND EQUIPMENT.
 PIPING AND EQUIPMENT ARE MODELED
 REPRESENTATIONS ONLY, ACTUAL LOCATION REPRESENTATIONS ONLY, ACTUAL LOCATION AND ORIENTATION MAY YARY 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.

© SULZER LM 2016 (Date of Drawing)
ALRINGHTS RESERVED, NO LAFE OF THIS
ALRINGHTS RESERVED, NO LAFE OF STRIBLED OR
ARRIVATION OF THIS STRIBLED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS,
ELECTRONIC OR MECHANICAL. INCLUDING
PHOTOCOPPING AND RECORDING, WITHOUT THE
EXPRESS PRIOR WRITTEN CONSENT OF SULZER
PUMPS



APPROXIMATE WEIGHTS 2225 kg PUMP: PUMP WITHOUT CAN / 1440 kg CAN: 785 kg MOTOR: 700 kg BASEPLATE 130 kg AUXILIARY 150 kg TOTAL: 3205 kg

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: BUTANE COOL DOWN PUMP INSTALLED AT: KANGAN- ASSALUYEH - IRAN PLIMP OFM: Sulzer Pumpen (Deutschland) GmbH

SULZER ORDER NO.: 100247188-0100

IDENTIFICATION NUMBERS				
SULZER SERIAL NO.	CUSTOMER TAG NO'S			
	PUMP	DRIVER		
583644	10-P-1682 A	10-M-1682 A		
583645	10-P-1682 B	10-M-1682 B		

CERTIFIED FINAL CERTIFIED FOR NOZZLE & FOUNDATION ONLY

PRELIMINARY ONLY

DO NOT SCALE. DIMENSIONS: mm

UNLESS OTHERWISE SPECIFIED TOLERANCES ≤ 500 mm ± 3mm > 500 mm ± 12mm

AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

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

04	14.11.17	"R"	For Approval	TR	RS	СН	PL
03	08.08.17	"R"	For Approval	TR	RS	СН	PL
02	19.06.17	"R"	For Approval	TR	RS	СН	PL
01	02.03.17	"R"	For Approval	TR	RS	СН	PL
00	21.12.16	"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



SCALE : 1:10

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





1440 kg

General Arrangement drawings for Item 10-P-1682 A/B

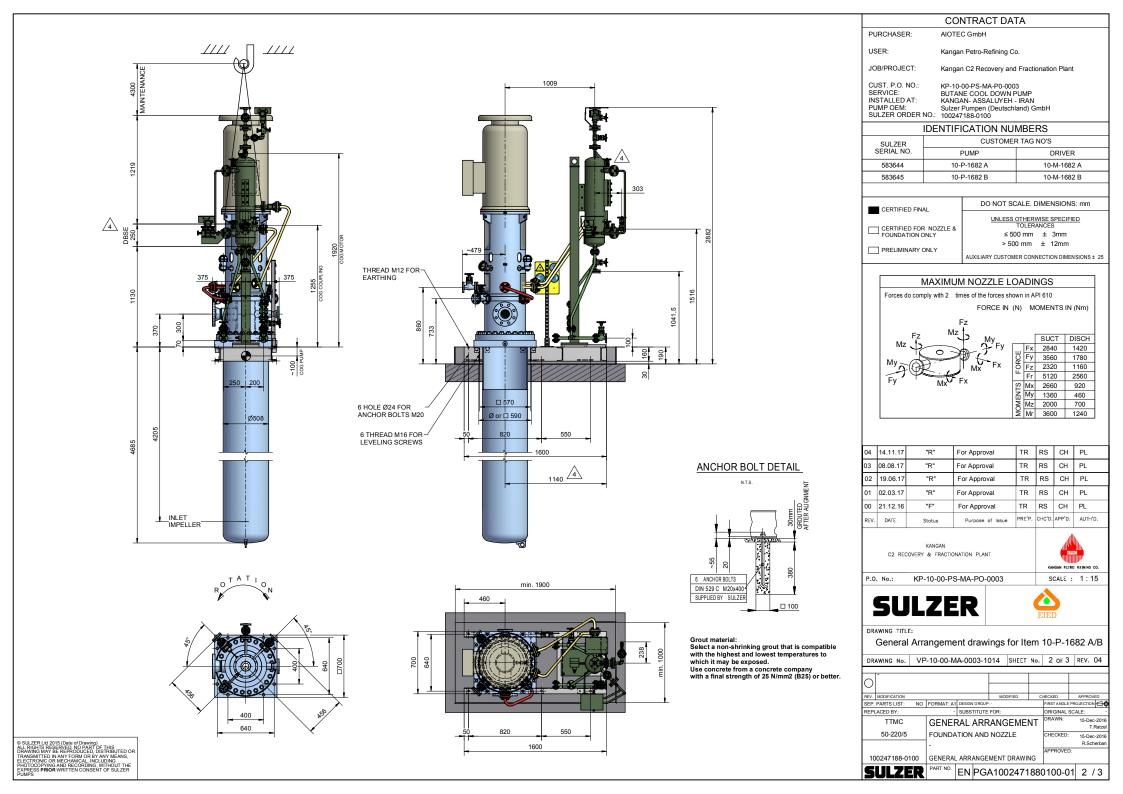
DRAWING No. VP-10-00-MA-0003-1014 SHEET No. 1 OF 3 REV. 04

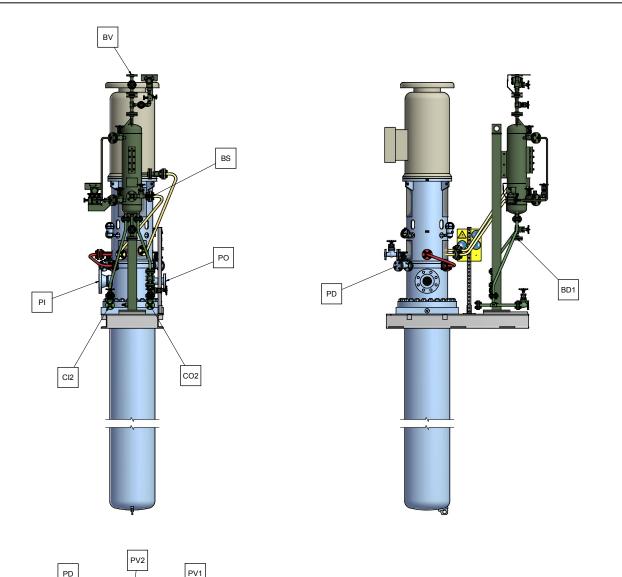
REV. MODIFICATION SEP. PARTS LIST: NO FORMAT: A1 DESIGN GROUP FIRST ANGLE PROJECTION SUBSTITUTE FOR ORIGINAL SCALE: TTMC GENERAL ARRANGEMENT T.Ratze GA ISOMETRIC AND DATA SHEET 50-220/5 CHECKED 15-Dec-2016 R.Scherban APPROVED

100247188-0100

GENERAL ARRANGEMENT DRAWING

PART NO. EN PGA1002471880100-01 1 / 3





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CONNECTION LEGEND					
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 VALVE	3/4"	ASME B16.5 300 RF / GATE VALVE 300 RF		
PV1	PUMP VENT WITH VALVE -SUCTION -PERMANENT VENT	3/4"	ASME B16.5 300 RF / GATE VALVE 300 RF		
PV2	PUMP VENT WITH 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	PLAN 52 -DRAIN	3/4"	ASME B16.5 300 RF WITH BLIND FLANGE		
BV	PLAN 52 -VENT	3/4"	ASME B16 5 300 RE		

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NOZZLE ORIENTATION

CONTRACT DATA

PURCHASER: AIOTEC GmbH

USER: Kangan Petro-Refining Co.

JOB/PROJECT: Kangan C2 Recovery and Fractionation Plant

10-P-1682 B

CUST. P.O. NO.: SERVICE: INSTALLED AT: KP-10-00-PS-MA-P0-0003 BUTANE COOL DOWN PUMP KANGAN- ASSALUYEH - IRAN PUMP OEM: Sulzer Pumpen (Deutschland) GmbH SULZER ORDER NO.: 100247188-0100

583644

583645

IDENTIFICATION NUMBERS				
SULZER SERIAL NO.	CUSTOMER TAG NO'S			
	PUMP	DRIVER		
583644	10 P 1692 A	10 M 1682 A		

10-M-1682 B

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

04	14.11.17	"R"	For Approval	TR	RS	СН	PL
03	08.08.17	"R"	For Approval	TR	RS	СН	PL
02	19.06.17	"R"	For Approval	TR	RS	СН	PL
01	02.03.17	"R"	For Approval	TR	RS	СН	PL
00	21.12.16	"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 : 1:15





DRAWING TITLE:

General Arrangement drawings for Item 10-P-1682 A/B

DRAWING No. VP-10-00-MA-0003-1014 SHEET No. 3 OF 3 REV. 04

REV. MODIFICATION SEP. PARTS LIST: NO FORMAT: A1 DESIGN GROUP: FIRST ANGLE PROJECTION SUBSTITUTE FOR: ORIGINAL SCALE:

TTMC GENERAL ARRANGEMENT 50-220/5 CONNECTION LAYOUT

CHECKED: 15-Dec-2016 R.Scherban APPROVED: GENERAL ARRANGEMENT DRAWING

100247188-0100

PART NO. EN PGA1002471880100-01 3 / 3