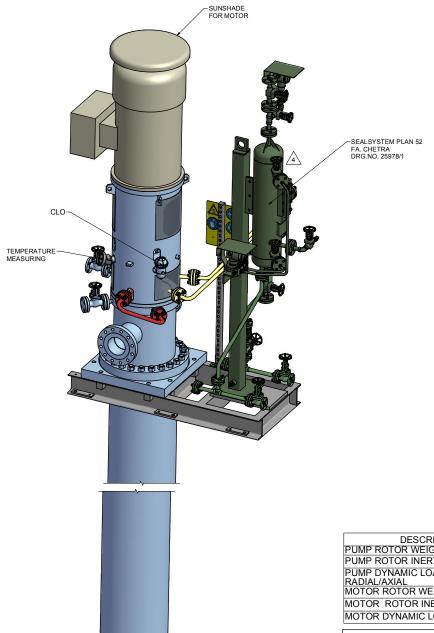
PUMP SPECIFICATIONS SIZE & TYPE: TTMC80-230/6 SPEED: (see MOTOR SPECIFICATIONS) ROTATION: CCW (AS VIEWED FROM DRIVER) DISCH FLG: 3" CLASS: 300RF Standard: ASME B16.5 SUCT FLG: 6" CLASS: 300RF Standard: ASME B16.5 MECH SEAL TYPE: CHETRA TYP 851TB-048 MECH SEAL DRG: 25509-16-10-P1681A/B API CODE: BDPFP/N API PIPING PLANS: 13 + 52

COUPLING SPECIFICATIONS				
MFR: Metastream				
TYPE: TSKS	SIZE:	0075		
COUPLING-GUARD MATERIAL:	BRASS			

	DRIVER SPECIFICATIONS					
	MOTOR: Schorch					
FRAME:	KD1280S-AA45P-M	ENCLOSURE: Z	ONE 2,IIB,T3			
kW:	75	SPEED:	2972 rpm			
PHASE:		VOLTAGE:	400			
FURNISH	HED BY: SULZER	CYCLE:	50 Hz			



DESCRIPTION	VALUE
PUMP ROTOR WEIGHT [kg]	277
	0.418
RADIAL/AXIAL	636 / 65
MOTOR ROTOR WEIGHT [kg]	109
MOTOR ROTOR INERTIA [kg.m²]	0.65
MOTOR DYNAMIC LOADS [N]	85

MAINTENANCE WEIGHT PUMP:

APPROXIMATE WEI	GHTS	
PUMP:	2390	kg
PUMP WITHOUT CAN /	1635	kg
CAN:	755	kg
MOTOR:	700	kg
BASEPLATE:	125	kg
AUXILIARY:	150	kg
TOTAL:	3365	kg

CONTRACT DATA

AIOTEC GmbH

PURCHASER:

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: INSTALLED AT: PLIMP OFM:

PROPANE COOL DOWN PUMP KANGAN- ASSALUYEH - IRAN Sulzer Pumpen (Deutschland) GmbH

SULZER ORDER NO.: 100247188-0090

IDENTIFICATION NUMBERS			
SULZER	CUSTOMER TAG NO'S		
SERIAL NO.	PUMP DRIVER		
583642	10-P-1681 A	10-M-1681 A	
583643	10-P-1681 B	10-M-1681 B	

CERTIFIED FINAL CERTIFIED FOR NOZZLE & FOUNDATION ONLY

Approved: No comment and the document is released for Manufacturing.

DO NOT SCALE. DIMENSIONS: mm

UNLESS OTHERWISE SPECIFIED TOLERANCES ≤ 500 mm ± 3mm

> 500 mm ± 12mm PRELIMINARY ONLY AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

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

04	14.11.17	"R"	For Approval	TR	RS	CH	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

KANGAN PETRO RIFINING CO.

SCALE : 1:10

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





APPROVED

1635 kg

General Arrangement drawings for Item 10-P-1681 A/B

DRAWING No.	VP-10-00-MA-0003-0914	SHEET No.	1 of 3	REV. 04

REV. MODIFICATION SEP. PARTS LIST: NO FORMAT: A1 DESIGN GROUP: FIRST ANGLE PROJECTION SUBSTITUTE FOR: ORIGINAL SCALE: 14-Dec-2016 TTMC GENERAL ARRANGEMENT T.Ratze 80-230/6 GA ISOMETRIC AND DATA SHEET CHECKED 14-Dec-2016 R.Scherban

100247188-0090 GENERAL ARRANGEMENT DRAWING PART NO. | EN | PGA1002471880090-01 | 1 / 3

© SULZER Ltd 2015 (Date of Drawing)
ALL RIGHTS RESERVED, NO PART OF THIS
ALL RIGHTS RESERVED, NO PART OF THIS
TED ON THE STREET OF THIS
TED ON THE STREET OF THIS
ELECTRONIC OR MECHANICAL INCLUDING
PHOTOCOPYING AND RECORDING, WITHOUT THE
EXPRESS PRIOR WRITTEN CONSENT OF SULZER
PUMPS

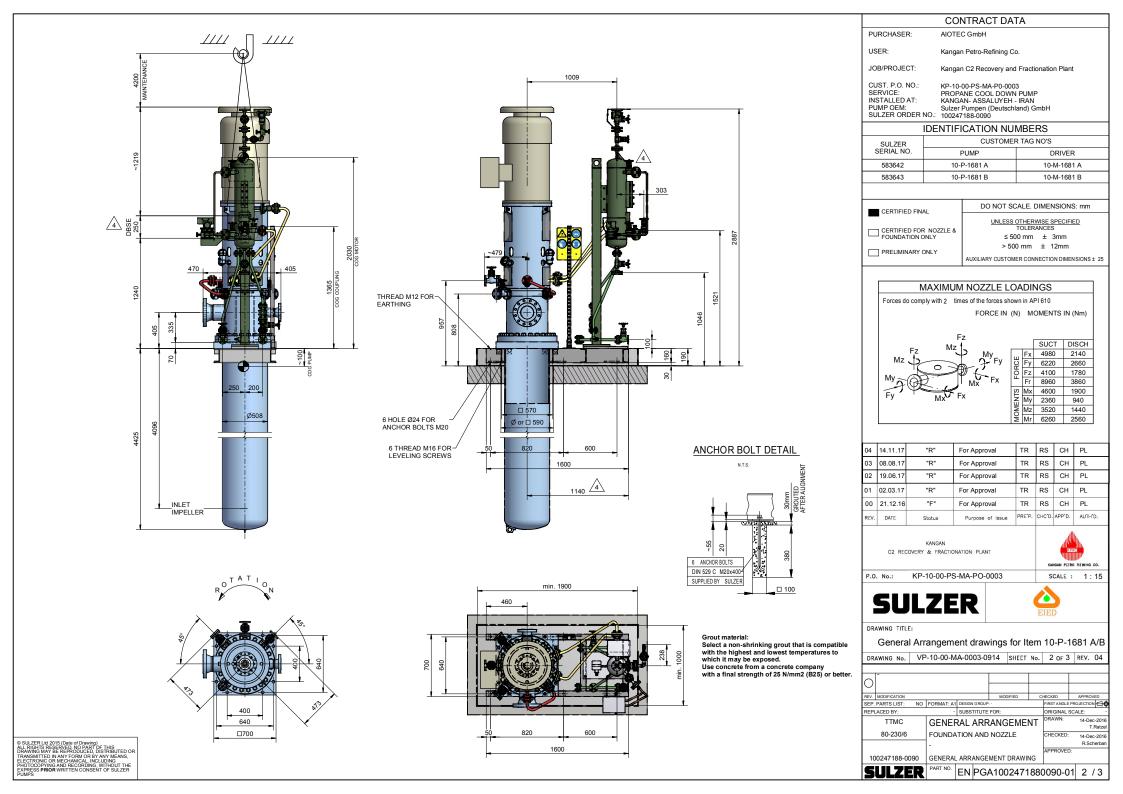
STANDARDS ANSI/ HI 9.8-1998 "PUMP INTAKE DESIGN" REQUIREMENTS.

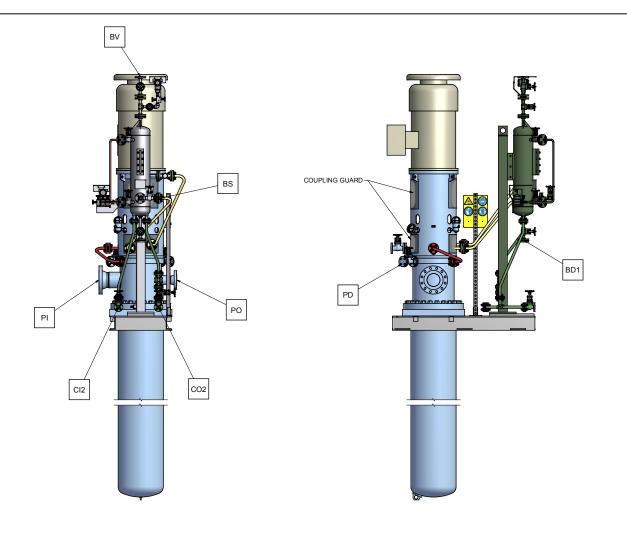
1. CAUTION! CAREFULLY CHECK ALIGNMENT BEFORE STARTING UNIT. ALL HOLES IN FLANGES

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 DETINICATION OF PIPING AND EQUIPMENT: PIPING AND EQUIPMENT ARE MODELED REPRESENTATIONS ONLY, ACTUAL LOCATION AND ORIENTATION MAY VARY PER MEDIA STANDARDS, UNLESS OTHERWISE DIMENSIONED. THE SUCTION PIPING OR NITAKE DISTRICT.

PROPRESENTATION OF NITAKE DISTRICT.





PD	PV2	PV1	
PI		PO	PN

NOZZLE ORIENTATION

	CONNECTION LEGEND				
ITEM	DESCRIPTION	SIZE	TYPE		
PI	PUMP SUCTION NOZZLE	6"	ASME B16.5 300 RF		
PO	PUMP DISCHARGE NOZZLE	3"	ASME B16.5 300 RF		
PD	PUMP DRAIN WITH GATE VALVE	3/4"	ASME B16.5 300RF / 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	PLAN 52 -DRAIN	3/4"	ASME B16.5 300 RF WITH BLIND FLANGE		
BV	PLAN 52 -VENT	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.: SERVICE: KP-10-00-PS-MA-P0-0003 PROPANE COOL DOWN PUMP KANGAN- ASSALUYEH - IRAN INSTALLED AT:
PUMP OEM:
SULZER ORDER NO.: 100247188-0090

10-P-1681 B

583643

PRELIMINARY ONLY

IDENTIFICATION NUMBERS			
SULZER	CUSTOMER TAG NO'S		
SERIAL NO.	PUMP	DRIVER	
583642	10-P-1681 A	10-M-1681 A	

10-M-1681 B

DO NOT SCALE. DIMENSIONS: mm CERTIFIED FINAL UNLESS OTHERWISE SPECIFIED TOLERANCES CERTIFIED FOR NOZZLE & FOUNDATION ONLY ≤ 500 mm ± 3mm

> 500 mm ± 12mm AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

04 14.11.17 For Approval TR RS CH PL 03 08.08.17 "R" For Approval RS CH PL 19.06.17 For Approval RS СН 01 02.03.17 "R" TR RS For Approval CH PL "F" 00 21.12.16 For Approval TR RS CH PL PRE'P. CHC'D. APP'D. AUTH'D. DATE Status

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-1681 A/B

DRAWING No.	VP-10-00-MA-0003-0914	SHEET No.	3 of 3	REV. 04

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EV. MODIFICATION	MODIFICATION				CHECKED		APPROVED	
SEP. PARTS LIST:	NO	FORMAT: A1 DESIGN GROUP: ·			FIRST ANGLE PROJECTION			
REPLACED BY:	-	SUBSTITUTE FOR:			ORIGINAL SCALE: -			
TTMC		GENERAL ARRANGEMENT				DRAWN:	14-Dec T.F	-2016 Ratzel
80-230/6	80-230/6 CONNECTION LAYOUT					CHECKED:	14-Dec	-2016
		-					R.Sch	erban
100247100 0000	_	CENEDAL	ADDANCE	MENT DRAWIN		APPROVED):	

SULZER PART NO. EN PGA1002471880090-01 3 / 3