# PUMP SPECIFICATIONS

SIZE & TYPE: ZF250-5560

SPEED: (see MOTOR SPECIFICATIONS)

(AS VIEWED FROM DRIVER) ROTATION: CW

DISCH FLG: 10" CLASS: 300RF Standard: ASME B16.5 Standard: ASME B16.5

SUCT FLG: 10" CLASS: 300RF MECH SEAL TYPE: CHETRA TYP 851TB-068

MECH SEAL DRG: 25504-16-10-P-1381 A/B API CODE: BDPHP/N

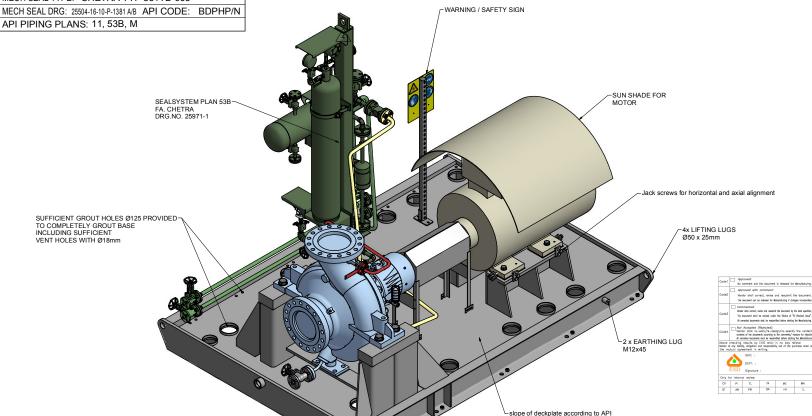
# **COUPLING SPECIFICATIONS**

MFR: METASTREAM

TYPE: TSKS SIZE: 0135

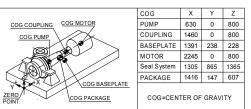
COUPLING-GUARD MATERIAL: BRASS

### DRIVER SPECIFICATIONS MOTOR: SCHORCH FRAME: KD1315M-BA41P-M Enclosure: Zone 2, IIB, 3 1486 rpm kW. 132 SPFFD: PHASE: 3 VOLTAGE: 400 FURNISHED BY: SULZER CYCLE: 50 Hz



- CAUTION! CAREFULLY CHECK ALIGNMENT BEFORE STARTING UNIT. ALL HOLES IN FLANGES STRADDLE CENTERLINES. THE CONNECTION OF PIPES TO THE LINIT 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.

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DRAWING MAY BE REPRODUCED, DISTRIBUTED OR
TRANSMITTED IN ANY FORM OR BY ANY MEANS
ELECTRONIC OR MECHANICAL, INCLUDING
PHOTOCOPYING AND RECORDING, WITHOUT THE
EXPRESS PRIOR WRITTEN CONSENT OF SULZER



DESCRIPTION	VALUE
PUMP ROTOR WEIGHT [kg]	140
PUMP ROTOR INERTIA [kg.m²]	3,182
PUMP DYNAMIC LOADS [N] RADIAL/AXIAL	436 /144
MOTOR ROTOR WEIGHT [kg]	292,4
MOTOR ROTOR INERTIA [kg.m²]	2,7
MOTOR DYNAMIC LOADS [N]	114

MAINTENANCE WEIGHT PUMP: kg 681

APPROXIMATE WEIGHTS					
	PUMP:	1094	kg		
	MOTOR:	1120	kg	lt	
	BASEPLATE:	1637	kg		
	AUXILIARY:	271	kg	H	
	TOTAL:	4122	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: DEETHANIZER REFLUX PUMP INSTALLED AT: KANGAN- ASSALUYEH - IRAN PLIMP OFM: Sulzer Pumpen (Deutschland) GmbH

SULZER ORDER NO.: 100247188-0010

IDENTIFICATION NUMBERS					
SULZER SERIAL NO.	CUSTOMER TAG NO'S				
	PUMP	DRIVER			
583626	10-P-1381 A	10-M-1381 A			

CERTIFIED FINAL	DO NOT SCALE. DIMENSIONS: mm
OLIVIII ILD I IIVIL	

10-P-1381 B

CERTIFIED FOR NOZZLE & FOUNDATION ONLY

583627

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

10-M-1381 B

PRELIMINARY ONLY AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

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

)4	16.11.17	"R"	For Approval	TR	RS	СН	PL	
03	09.08.17	"R"	For Approval	TR	RS	CH	PL	
)2	06.06.17	"R"	For Approval	TR	RS	СН	PL	
01	02.03.17	"R"	For Approval	TR	RS	СН	PL	
00	19.12.16	"F"	For Approval	TR	RS	СН	PL	
REV.	DATE	Status	Purpose of Issue	PRE'P.	CHC'D.	APP'D.	AUTH'D.	Ī

KANGAN C2 RECOVERY & FRACTIONATION PLANT



12-Dec-2016

R.Scherban

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

SCALE : 1:10





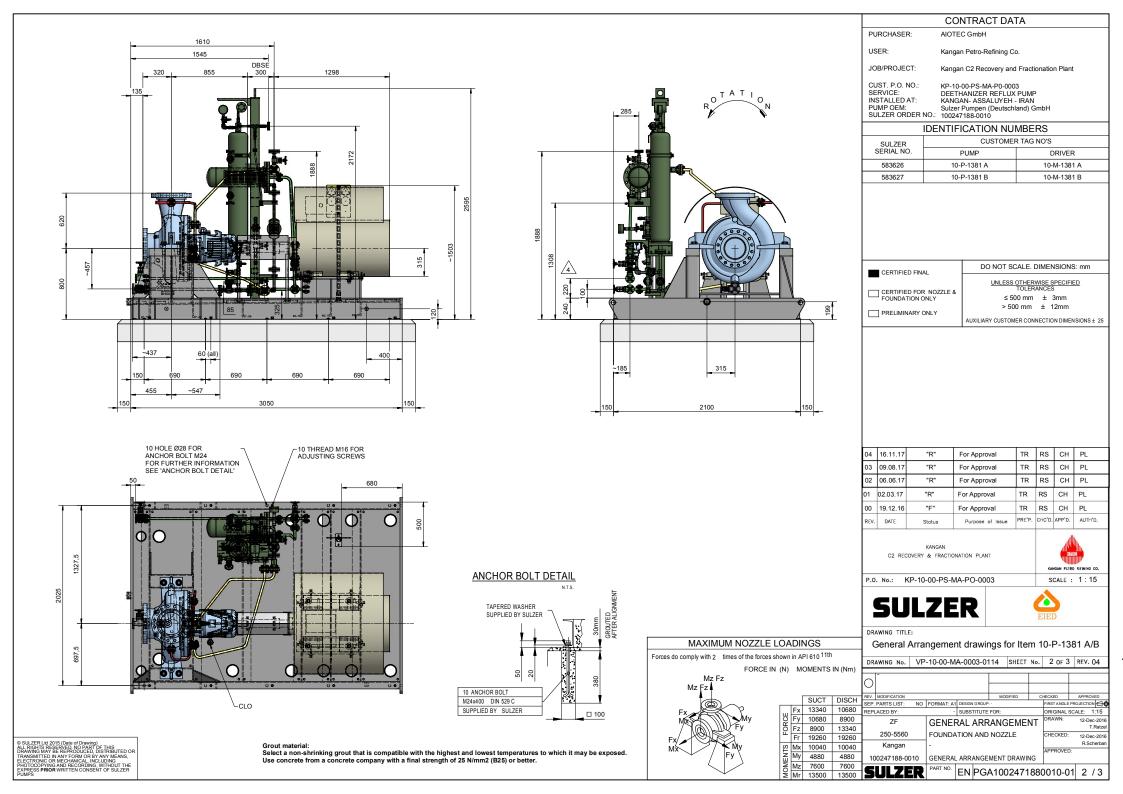
General Arrangement drawings for Item 10-P-1381 A/B

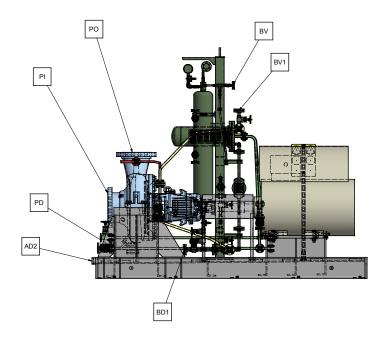
DRAWING No.   VP-10-00-MA-0003-0114   SHEET No.   1 OF 3   REV. 04
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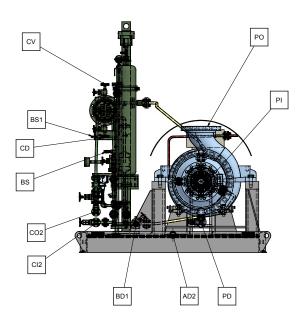
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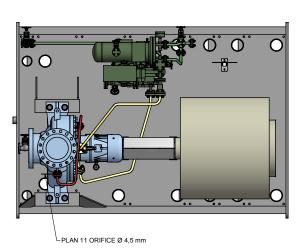
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ZF	GENEF	RAL ARRANGEMENT	DRAWN:
250-5560	GA ISOM	ETRIC AND DATA SHEET	CHECKED:
Kangan	-		APPROVED:
100047400 0040	CENEDAL	ADDANGEMENT DRAWING	APPROVED.

PART NO. EN PGA1002471880010-01 1 / 3









	CONNECTION	ON LE	GEND
ITEM	DESCRIPTION	SIZE	TYPE
PI	PUMP SUCTION NOZZLE	10"	ASME B16.5 300 RF
PO	PUMP DISCHARGE NOZZLE	10*	ASME B16.5 300 RF
PD	PUMP DRAIN WITH GATE VALVE	3/4"	ASME B16.5 300 RF / GATE VALVE 300 RF
AD2	BASE DRAIN	2"	NPT FEMALE
CI2	COOLING HEADER - INLET	3/4"	ASME B16.5 150 RF
CO2	COOLING HEADER - OUTLET	3/4"	ASME B16.5 150 RF
BS	PLAN 53B RESERVOIR FILL	1/2"	NPT-F QUICK COUPLING
BS1	PLAN 53B NITROGEN CHARGE	1/2"	NPT-F QUICK COUPLING
BD1	PLAN 53B RESERVOIR DRAIN	3/4"	ASME B16.5 300 RF BLIND FLANGE
BV	PLAN 53B HIGH POINT VENT	3/4"	ASME B16.5 300 RF BLIND FLANGE
BV1	PLAN 53B ACCUMULATOR VENT	3/4"	ASME B16.5 300 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

CONTRACT DATA

PURCHASER:

AIOTEC GmbH

Kangan Petro-Refining Co.

USER:

SERVICE: INSTALLED AT:

JOB/PROJECT: Kangan C2 Recovery and Fractionation Plant CUST. P.O. NO.:

KP-10-00-PS-MA-P0-0003 DEETHANIZER REFLUX PUMP KANGAN- ASSALUYEH - IRAN

PUMP OEM: Sulzer Pumpen (D SULZER ORDER NO.: 100247188-0010 Sulzer Pumpen (Deutschland) GmbH

IDENT	ION N	

Г	SULZER	CUSTOMER TAG NO'S						
SERIAL NO.		PUMP	DRIVER					
	583626	10-P-1381 A	10-M-1381 A					
	583627	10-P-1381 B	10-M-1381 B					

CERTIFIED FINAL

PRELIMINARY ONLY

DO NOT SCALE. DIMENSIONS: mm

UNLESS OTHERWISE SPECIFIED TOLERANCES CERTIFIED FOR NOZZLE & FOUNDATION ONLY

≤ 500 mm ± 3mm > 500 mm ± 12mm

AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25

16.11.17 RS СН For Approval RS 09.08.17 "R" For Approval TR CH PL 06.06.17 "R" TR RS CH PL For Approval 01 02.03.17 "R" For Approval TR RS CH 00 19.12.16 "F" For Approval TR RS CH PRE'P. CHC'D. APP'D. AUTH'D. REV. DATE Status

KANGAN

C2 RECOVERY & FRACTIONATION PLANT

KANGAN PETRO RIFINING CO.

T.Ratze

12-Dec-2016 R.Scherban

KP-10-00-PS-MA-PO-0003

SCALE : 1:15





DRAWING TITLE:

General Arrangement drawings for Item 10-P-1381 A/B

DRAWING No. VP-10-00-MA-0003-0114 SHEET No. 3 OF 3 REV. 04

REV. MODIFICATION SEP. PARTS LIST: NO FORMAT: A1 DESIGN GROUP: REPLACED BY: SUBSTITUTE FOR: ORIGINAL SCALE: 1:15 ZF GENERAL ARRANGEMENT

250-5560 CONNECTION LAYOUT CHECKED: Kangan APPROVED: 100247188-0010 GENERAL ARRANGEMENT DRAWING

PART NO. EN PGA1002471880010-01 3 / 3