

PUMP SPECIFICATIONS

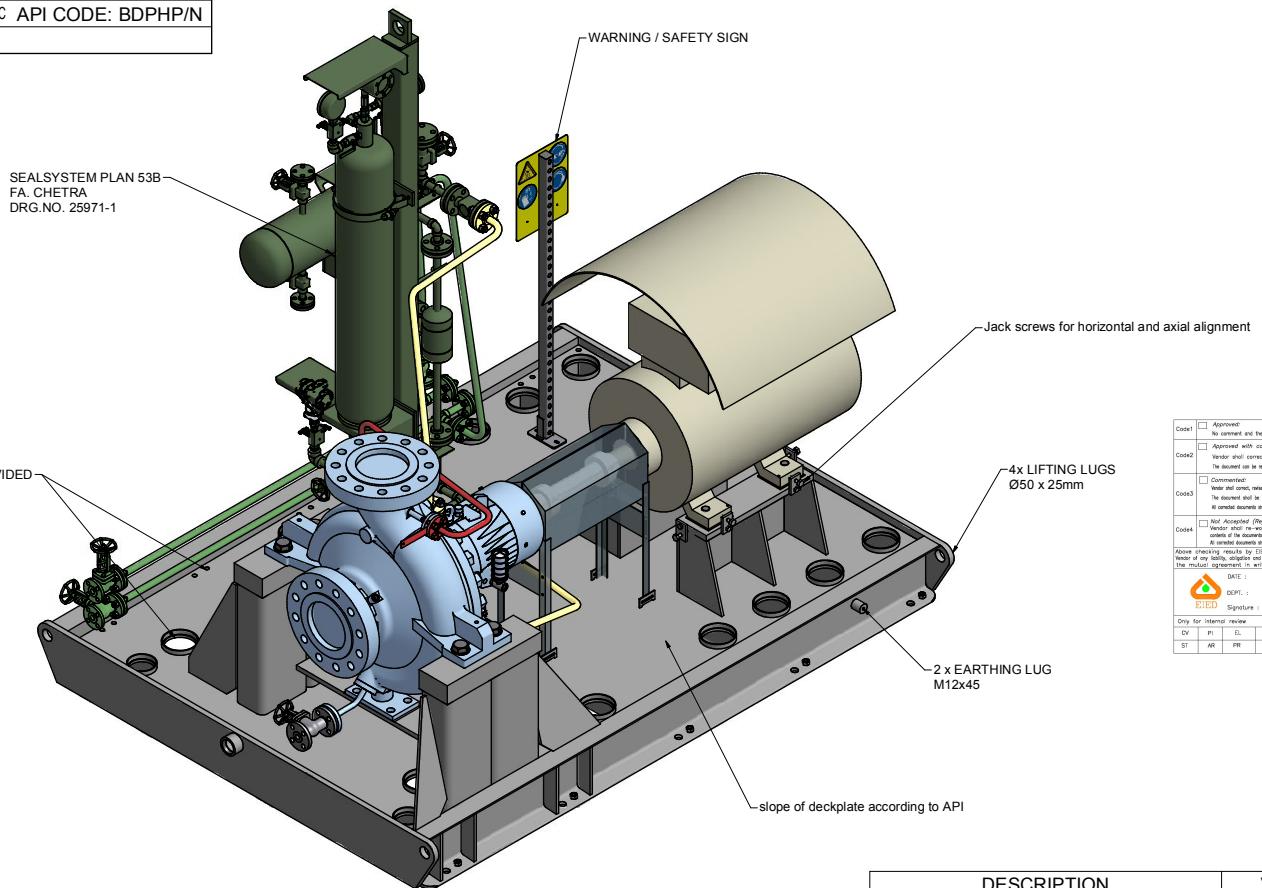
SIZE & TYPE:	ZF200-5560
SPEED: (see MOTOR SPECIFICATIONS)	
ROTATION:	CW (AS VIEWED FROM DRIVER)
DISCH FLG:	8" CLASS: 300RF Standard: ASME B16.5
SUCT FLG:	8" CLASS: 300RF Standard: ASME B16.5
MECH SEAL TYPE:	CHETRA TYP 851TB-068
MECH SEAL DRG:	25504-16-10-P-1383 A/B/C API CODE: BD PHP/N
API PIPING PLANS:	11, 53B, M

COUPLING SPECIFICATIONS

MFR:	METASTREAM
TYPE:	TSKS
SIZE: 0135	
COUPLING-GUARD MATERIAL: BRASS	

DRIVER SPECIFICATIONS

MOTOR:	SCHORCH
FRAME:	KD1280M-BA41P-M
ENCLOSURE:	ZONE 2,IIB,T3
kW:	90
SPEED:	1481 rpm
PHASE:	3
VOLTAGE:	400
FURNISHED BY:	SULZER
CYCLE:	50 Hz



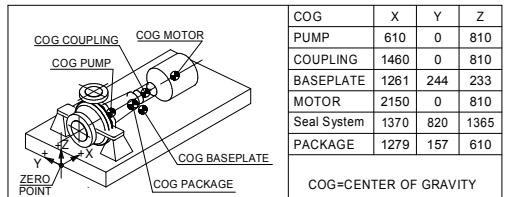
NOTES:

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.

2. COUPLES ARE NOT INTENDED TO REPRESENT ASSEMBLY OR RELOCATE MEASUREMENTS. THEY ARE FOR QUICK IDENTIFICATION OF PIPING AND EQUIPMENT.

3. PIPING AND EQUIPMENT ARE MODELED REFERRED TO AS A GUIDE ONLY. ACTUAL LOCATION AND ORIENTATION MAY VARY PER SHOP STANDARDS, UNLESS OTHERWISE DIMENSIONED.

4. THE SUCTION PIPELINE OR INTAKE DESIGN SHALL BE IN ACCORDANCE WITH API 6200 PUMP SITE STANDARDS ANSI/HI 8.5-1998 PUMP INTAKE DESIGN REQUIREMENTS.



DESCRIPTION	VALUE
PUMP ROTOR WEIGHT [kg]	128
PUMP ROTOR INERTIA [kg.m ²]	2,873
PUMP DYNAMIC LOADS [N]	356 / 96
RADIAL/AXIAL	
MOTOR ROTOR WEIGHT [kg]	200,5
MOTOR ROTOR INERTIA [kg.m ²]	1,48
MOTOR DYNAMIC LOADS [N]	78

MAINTENANCE WEIGHT PUMP: 667 kg

APPROXIMATE WEIGHTS

PUMP:	1064 kg
MOTOR:	820 kg
BASEPLATE:	1516 kg
AUXILIARY:	271 kg
TOTAL:	3671 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-P-0003
SERVICE:	DEPROGANIZER REFLUX PUMP
INSTALLED AT:	KANGAN- ASSALUYEH - IRAN
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH
SULZER ORDER NO.:	100247188-0030

IDENTIFICATION NUMBERS

SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583630	10-P-1383 A	10-M-1383 A
583631	10-P-1383 B	10-M-1383 B
583632	10-P-1383 C	10-M-1383 C

<input checked="" type="checkbox"/> CERTIFIED FINAL	DO NOT SCALE. DIMENSIONS: mm	
	UNLESS OTHERWISE SPECIFIED TOLERANCES	
	<input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY	≤ 500 mm ± 3mm
<input type="checkbox"/> PRELIMINARY ONLY		> 500 mm ± 12mm
AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25		

DRAWING CONTENT

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

Approved:
 Not Approved and the document is needed for Manufacturing.
 Approved with comment:
 Vendor shall correct, review and resubmit the document. The document can be needed for Manufacturing if changes introduced.
 Commented:
 Vendor shall review and resubmit the document by the date specified.
 Rejected:
 Not Accepted (Rejected):
 Document is rejected due to major design errors or specification conflicts.
 Above checking results are EIED result in no way related to Kangan Petro Refining Co. responsibility out of the purchase order and the mutual agreement in writing.
 Date : 09.08.17 Dept.: EIED Signature :
 Dry for Internal review
 DV PI CL IN MC MA
 ST AR PR SA HV TL

03	09.08.17	"R"	For Approval	TR	RS	CH	PL
02	07.06.17	"R"	For Approval	TR	RS	CH	PL
01	02.03.17	"R"	For Approval	TR	RS	CH	PL
00	19.12.16	"F"	For Approval	TR	RS	CH	PL
REV.	DATE	Status	Purpose of Issue	PREP.	CHC'D.	APP'D.	AUTH'D.

KANGAN
C2 RECOVERY & FRACTIONATION PLANT



P.O. No.: KP-10-00-PS-MA-PO-0003 SCALE : 1 : 10

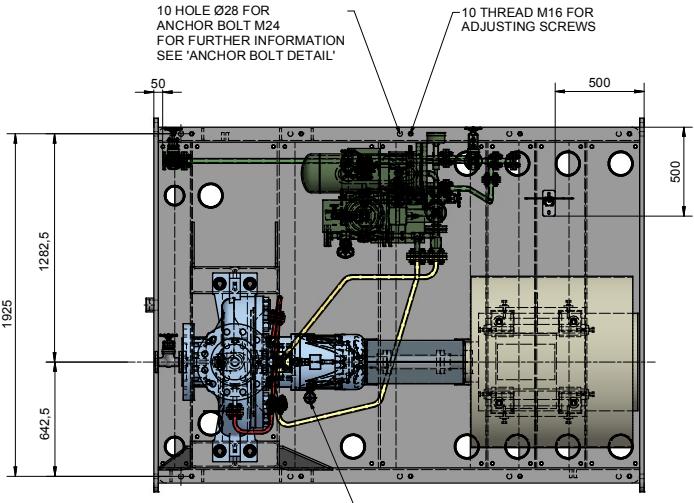
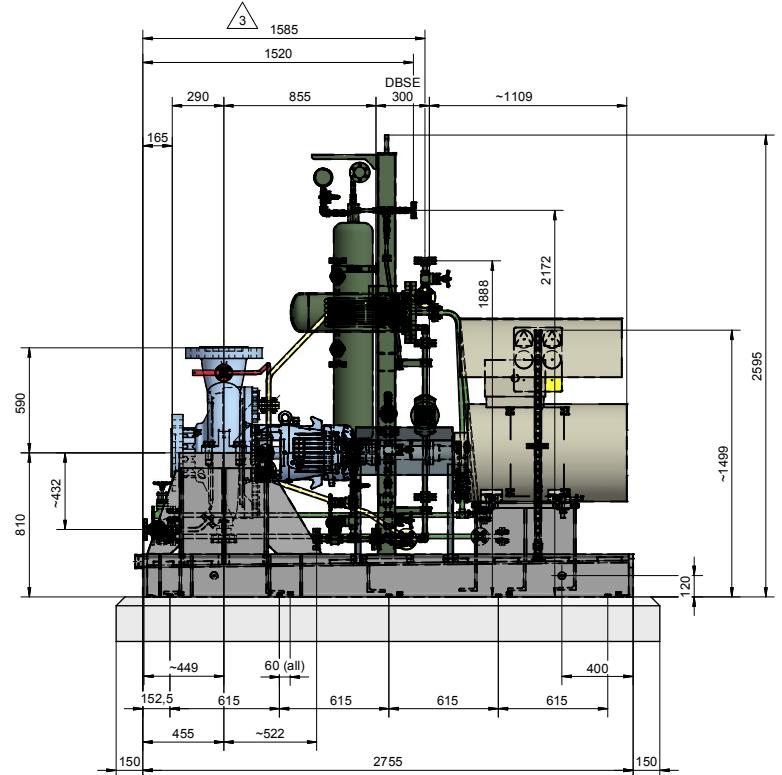
SULZER



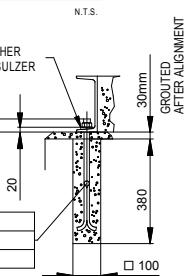
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General Arrangement drawings for Item 10-P-1383 A/B/C

DRAWING No. VP-10-00-MA-0003-0314 SHEET No. 1 OF 3 REV. 03

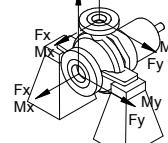
REV.	MODIFICATION	MODIFIED	CHECKED	APPROVED
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REPLACED BY:	-	STUDITE FOR:	ORIGINAL SCALE:	1:10
ZF 200-5560	Kangan	GENERAL ARRANGEMENT GA ISOMETRIC AND DATA SHEET	DRAWN: 13-Dec-2016	T.Ratzel
100247188-0030		GGENERAL ARRANGEMENT DRAWING	CHECKED: 13-Dec-2016	R.Scherban
				APPROVED:
SULZER	PART NO. EN	PGA1002471880030-01	1 / 3	



Grout material:
Select a non-shrinking grout that is compatible with the highest and lowest temperatures to which it may be exposed. Use concrete from a concrete company with a final strength of 25 N/mm² (R25) or better.



ANCHOR BOLT DETAIL



	SUCT	DISCH
FORCE	Fx Fy Fz Fr	9780 7560 6220 13840
MOMENTS	Mx My Mz M _r	7060 3520 5160 2460

CONTRACT DATA

PURCHASER: AIOTEC Gmb

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: DEPROPARORIZER REFLUX PUMP
INSTALLED AT: KANGAN, ASSALIYEH, IRAN

INSTALLED AT: KANGAN- ASSALUYEH - IRAN
PUMP OEM: Sulzer Pumpen (Deutschland) GmbH

SULZER ORDER NO.: 100247188-0030

IDENTIFICATION NUMBERS

SULZER SERIAL NO.	CUSTOMER TAG NO'S	
	PUMP	DRIVER
583630	10-P-1383 A	10-M-1383 A
583631	10-P-1383 B	10-M-1383 B
583632	10-P-1383 C	10-M-1383 C

<input checked="" type="checkbox"/> CERTIFIED FINAL	DO NOT SCALE. DIMENSIONS: mm	
		<u>UNLESS OTHERWISE SPECIFIED</u>
		TOLERANCES
		≤ 500 mm ± 3mm
		> 500 mm ± 12mm
<input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY		
<input type="checkbox"/> PRELIMINARY ONLY	AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25	

03	09.08.17	"R"	For Approval	TR	RS	CH	PL
02	07.06.17	"R"	For Approval	TR	RS	CH	PL
01	02.03.17	"R"	For Approval	TR	RS	CH	PL
00	19.12.16	"F"	For Approval	TR	RS	CH	PL
REV.	DATE	Status	Purpose of Issue	PREP'D.	CH'C'D.	APP'D.	AUTH'D.

KANGAN
C2 RECOVERY & FRACTIONATION PLANT

The logo for KPRC-TV, featuring a stylized red flame-like graphic above the station's call letters "KPRC".

P.O. No.: KP-10-00-PS-MA-PO-0003 SCALE : 1:15

CHI-PEER

SULZER
FIELD

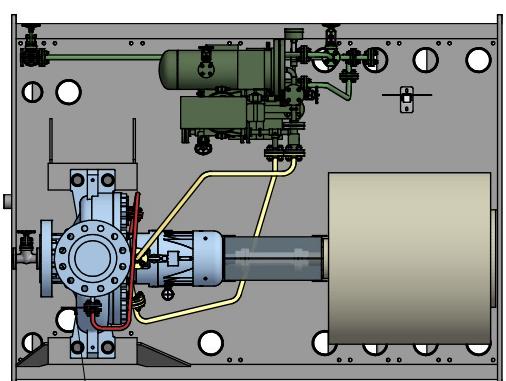
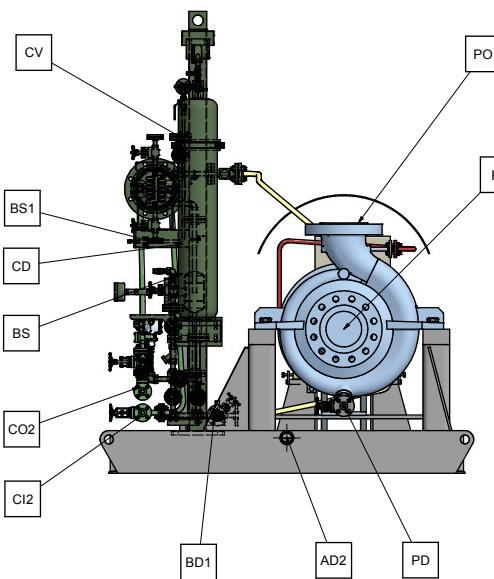
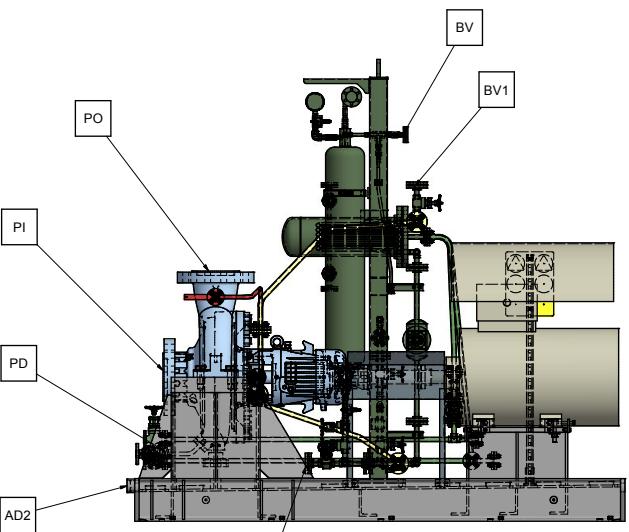
DRAWING TITLE:

General Arrangement drawings for Item 10-P-1383 A/B/C

DRAWING No.	VP-10-00-MA-0003-0314	SHEET No.	2 OF 3	REV. 03
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REPLACED BY:	-	SUBSTITUTE FOR:	ORIGINAL SCALE: 1:1.5	
ZF 200-5560	GENERAL ARRANGEMENT FOUNDATION AND NOZZLE			
Kangan	DRAWN: 13-Dec-2016 T.Ratzel CHECKED: 13-Dec-2016 R.Scherber APPROVED: [Signature]			

100247188-0030 GENERAL ARRANGEMENT DRAWING

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:	DEPROGANIZER REFLUX PUMP						
INSTALLED AT:	KANGAN- ASSALUYEH - IRAN						
PUMP OEM:	Sulzer Pumpen (Deutschland) GmbH						
SULZER ORDER NO.:	100247188-0030						
IDENTIFICATION NUMBERS							
SULZER SERIAL NO.	CUSTOMER TAG NO'S						
	PUMP	DRIVER					
583630	10-P-1383 A	10-M-1383 A					
583631	10-P-1383 B	10-M-1383 B					
583632	10-P-1383 C	10-M-1383 C					
DO NOT SCALE. DIMENSIONS: mm							
<input checked="" type="checkbox"/> CERTIFIED FINAL							
<input type="checkbox"/> CERTIFIED FOR NOZZLE & FOUNDATION ONLY	UNLESS OTHERWISE SPECIFIED						
	TOLERANCES						
	$\leq 500 \text{ mm}$ $\pm 3 \text{ mm}$						
	$> 500 \text{ mm}$ $\pm 12 \text{ mm}$						
AUXILIARY CUSTOMER CONNECTION DIMENSIONS ± 25							
03	09.08.17	"R"	For Approval	TR	RS	CH	PL
02	07.06.17	"R"	For Approval	TR	RS	CH	PL
01	02.03.17	"R"	For Approval	TR	RS	CH	PL
00	19.12.16	"F"	For Approval	TR	RS	CH	PL
REV.	DATE	Status	Purpose of Issue	PRE'P.	CH'C'D.	APP'D.	AUTH'D.
KANGAN C2 RECOVERY & FRACTIONATION PLANT							
P.O. No.: KP-10-00-PS-MA-PO-0003							
SCALE : 1 : 15							
SULZER							
EIED							
DRAWING TITLE: General Arrangement drawings for Item 10-P-1383 A/B/C							
DRAWING No.	VP-10-00-MA-0003-0314	SHEET No.	3 OF 3	REV. 03			
3							
3							
3							
GENERAL ARRANGEMENT CONNECTION LAYOUT							
ITEM	DESCRIPTION	SIZE	TYPE				
PI	PUMP SUCTION NOZZLE	8"	ASME B16.5 300 RF				
PO	PUMP DISCHARGE NOZZLE	8"	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				
CD	COOLING HEADER- INLET	3/4"	ASME B16.5 150 RF				
CO2	COOLING HEADER- OUTLET	3/4"	ASME B16.5 150 RF				
BS	PLAN 538 RESERVOIR FILL	1/2"	NPT-F QUICK COUPLING				
BS1	PLAN 538 NITROGEN CHARGE	1/2"	NPT-F QUICK COUPLING				
BD1	PLAN 538 RESERVOIR DRAIN	3/4"	ASME B16.5 300 RF BLIND FLANGE				
BV	PLAN 538 HIGH POINT VENT	3/4"	ASME B16.5 300 RF BLIND FLANGE				
BV1	PLAN 538 ACCUMULATOR VENT	3/4"	ASME B16.5 300 RF BLIND FLANGE				
CV	PLAN 538 COOLER VENT	1/2"	ASME B16.5 150 RF BLIND FLANGE				
CD	PLAN 538 COOLER DRAIN	1/2"	ASME B16.5 150 RF BLIND FLANGE				
REV.	MODIFICATION		MODIFIED	CHECKED	APPROVED		
SEP. PARTS LIST:	NO	FORMAT: A1	DESIGN GROUP:-	FIRST ANGLE PROJECTION	<input checked="" type="checkbox"/>		
REPLACED BY:	-		SUBSTITUTE FOR:	ORIGINAL SCALE:	1:15		
ZF	GENERAL ARRANGEMENT						
200-5560	CONNECTION LAYOUT						
Kangan	-						
100247188-0030	GENERAL ARRANGEMENT DRAWING						
SULZER	PART NO.	EN	PGA1002471880030-01	3 / 3			



3 PLAN 11 ORIFICE Ø 4 mm

