

UNIT DATA	
PUMP SPECIFICATIONS	
SIZE AND TYPE:	14 X 18 X 24 VCR-D
NO STAGES:	6 RPM: 1480
ROTATION:	CCW (AS VIEWED FROM DRIVER)
DISCHARGE FLANGE:	14" CLASS 300LB RF ASME B16.5
SUCTION FLANGE:	18" CLASS 300LB RF ASME B16.5
MECH SEAL:	CHETRA
TYPE:	851T/B
API PLAN:	13/52
API CODE:	22A-PFR-075-13/52

COUPLING	
TYPE:	TLKS
SIZE:	0750
DBCFF:	250mm
GUARDS:	BRASS

DRIVER SPECIFICATIONS	
MOTOR:	SCHORCH
FURNISHED BY:	SULZER
FRAME:	450
KW:	680
6000 V	SPEED: 1480 RPM
PHASE:	3 HZ: 50

APPROXIMATE WEIGHTS		
PUMP:	6000 KG	7000 KG
SUCTION CAN:	4800 KG	7800 KG
SOLEPLATE:	1150 KG	N/A KG
MOTOR:	5000 KG	N/A KG
AUX ITEMS:	200 KG	350 KG
SEAL SYSTEM:	150 KG	200 KG
TOTAL:	17300 KG	21500 KG

MAINTENANCE WEIGHTS		
COUPLING - PUMP HUB:		25 KG
COUPLING - MOTOR HUB:		30 KG
COUPLING - SPACER:		10 KG
THRUST BEARING HOUSING:		95 KG
MECHANICAL SEAL:		40 KG

CUSTOMER DATA	
USER:	KANGAN PETRO REFINING COMPANY
INSTALLATION AT:	C2 RECOVERY & FRACTIONATION PLANT
PURCHASER:	AIOPEC GmbH
P. O. NO:	4501053779
SERVICE:	PROPANE LOADING PUMPS
ITEM NOS:	10-P-1684 A/B/C
PUMP S.O. NO:	583921/2/3

REFERENCE DRAWINGS	
MOTOR:	MDD1002471880150-01, VP-10-00-MA-0003-1523
COUPLING:	CCD1002471880150-01, VP-10-00-MA-0003-1519
MECH SEAL:	SMD1002471880150-01, VP-10-00-MA-0003-1518
P & ID:	PP11002471880150-01, VP-10-00-MA-0003-1513
LONGITUDINAL SECTION:	PCS1002471880150-01, VP-10-00-MA-0003-1516

TERMINAL POINT SCHEDULE			
		SIZE/RATING/FACE	STANDARD
TP1	PUMP SUCTION	18" 300LB RF SM	ASME B16.5
TP2	PUMP DISCHARGE	14" 300LB RF SM	ASME B16.5
TP3	PUMP VENT	3/4" 300LB RF SM	ASME B16.5
TP4	PUMP DRAIN	3/4" 300LB RF SM	ASME B16.5
TP5	PLAN 53 FILL	1/2" QUICK COUPLING	ASME B16.5
TP6	PLAN 53 WATER IN	3/4" 150LB RF SM	ASME B16.5
TP7	PLAN 53 WATER OUT	3/4" 150LB RF SM	ASME B16.5
TP8	PLAN 53 VENT	3/4" 300LB RF SM	ASME B16.5
TP9	PLAN 53 DRAIN	3/4" 300LB RF SM	ASME B16.5
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-	-	-	-
-	-	-	-
-	-	-	-

MAX PERMISSIBLE BRANCH LOADS (2 X API)					
THE TABLE VALUES MAY INFLUENCE SIMULTANEOUSLY EACH PUMP BRANCH					
SUCTION NOZZLE *			DELIVERY NOZZLE		
Fx (kN)	Fy (kN)	Fz (kN)	Fx (kN)	Fy (kN)	Fz (kN)
±16.9	±20.46	±13.34	±14.24	±17.80	±11.56
Mx (kNm)	My (kNm)	Mz (kNm)	Mx (kNm)	My (kNm)	Mz (kNm)
±14.64	±7.32	±10.84	±12.74	±6.24	±9.50

FOUNDATION LOADS				
LOADING CONDITION PER BOLT (kN)		Fx	Fy	Fz
1. MASS LOADS (DRY)		-	-	+42.92
2. MASS LOADS (WET)		-	-	+52.73
3. NOZZLE		±11.87	±13.61	±50.08
4. TORQUE		+00.88	+00.87	-
5. UNBALANCED		+00.13	+00.13	+00.81
MAX OPERATING (2+3+4+5)		±12.88	±14.61	+103.62
N.B. POSITIVE Z DIRECTION DENOTES UPWARD REACTION				

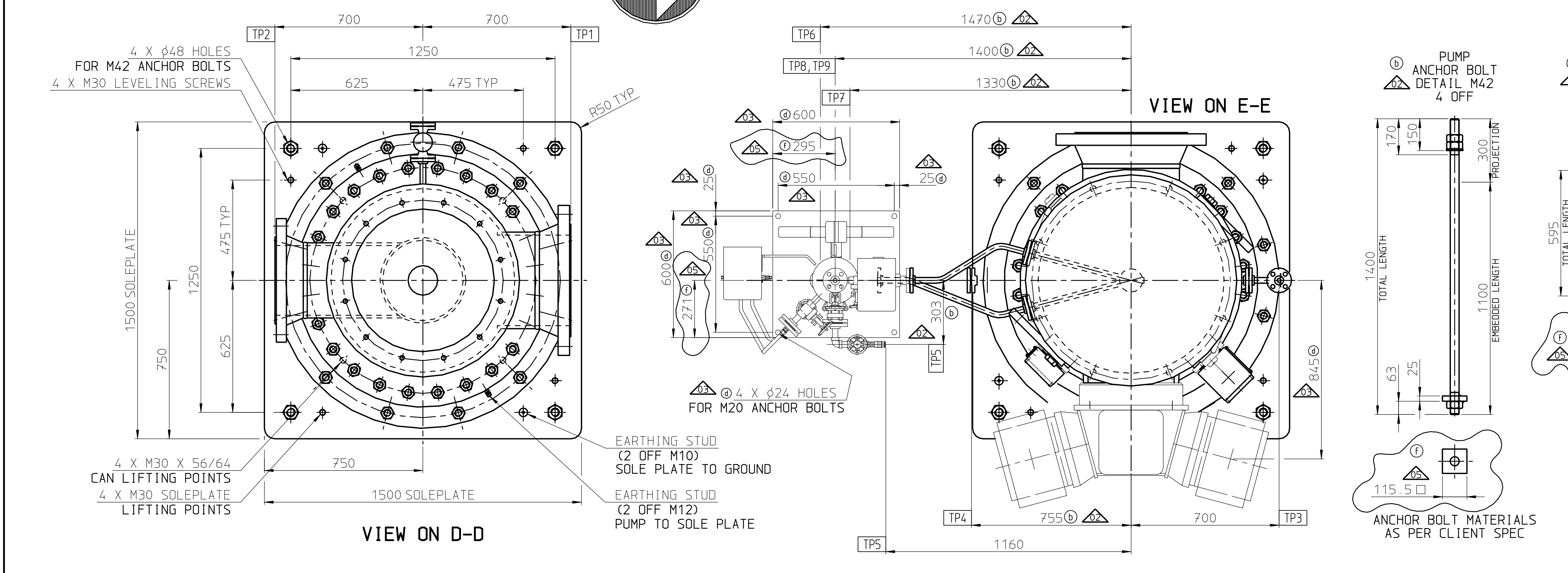
- NOTES
- ALL HOLES IN FLANGES STRADDLE C'S
 - CAREFULLY CHECK ALIGNMENT BEFORE STARTING UNIT.
 - DBCFF = DISTANCE BETWEEN COUPLING FLANGE FACES
 - C = C OF G POSITION
 - TBC = TO BE CONFIRMED
 - CRS = CENTRES
 - DIMENSIONS WITH ** ARE TBC
 - DBSE = DISTANCE BETWEEN SHAFT ENDS


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STANDARD DWG.

MACHINING REGULATIONS SEE DRAWING STANDARDS.

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REVISED PER CUSTOMERS COMMENTS				27-APR-2018	27-APR-2018	27-APR-2018
				H. Bailey	P. Ketheringham	S. Rhodes
REV.	MODIFICATION			MODIFIED	CHECKED	APPROVED
SEP. PARTS LIST	NO FORMAT	AO DESIGN GROUP			- 1ST ANGLE PROJECTION	
REPLACED BY		- SUBSTITUTE FOR			- ORIGINAL SCALE	1 : 15
VCRD 14X18X24		GENERAL ARRANGEMENT PROPANE LOADING PUMPS			DRAWN: 12-JAN-2017 J. Hodgson	
KANGAN		10-P-1684 A/B/C			CHECKED: 12-JAN-2017 H. Bailey	
100247188-0150		PUMP TYPE - VS6			APPROVED: 12-JAN-2017 S. Rhodes	
SULZER				PART - No.	EN PGA1002471880150-01	
					1 / 1	