

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
DBSE: 250mm	GUARDS: BRASS

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

APPROXIMATE WEIGHTS		DRY	WET
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:	A10TEC GmbH
P. O. NO:	4501053779
SERVICE:	BUTANE LOADING PUMPS
ITEM NOS:	10-P-1685 A/B/C
PUMP S.O. NO:	583924/5/6

REFERENCE DRAWINGS	
MOTOR:	MDD1002471880160-01, VP-10-00-MA-0003-1623
COUPLING:	CCD1002471880160-01, VP-10-00-MA-0003-1619
MECH SEAL:	SMD1002471880160-01, VP-10-00-MA-0003-1618
P & ID:	PP1002471880160-01, VP-10-00-MA-0003-1613
LONGITUDINAL SECTION:	PCS1002471880160-01, VP-10-00-MA-0003-1616

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
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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.

Rev	06	05	04	03	02	01	00
	27.04.18	06.02.18	24.10.17	09.08.17	06.07.17	30.03.17	12.01.17
Date							
Status	R	R	R	R	R	F	F
Purpose of Issue							
Prep By	MB	DMC	LP	JH	JH	JH	JH
Chkd By	MB	SR	SR	SR	SR	SR	SR
Appd By	PK	PK	DC	SW	DC	DC	DC
Auth By	SR	TB	TB	TB	DC	DC	DC
KANGAN C2 RECOVERY & FRACTIONATION PLANT							
P.O. No.: KP-10-00-PS-MA-PQ-0003				SCALE: 1 : 12			
SULZER							
DRAWING TITLE:				KANGAN PETRO EXPANSION CO.			
GENERAL ARRANGEMENT							
DRAWING No.: VP-10-00-MA-0003-1614				SHEET No. 1		OF 1	REV. 06
REVISED PER CUSTOMER COMMENTS				27-APR-2018 M. Bailey P. Ketteringham		27-APR-2018 S. Rhodes	
NO	FORMAT	AO	DESIGN GROUP	MODIFIED	CHECKED	APPROVED	
- SUBSTITUTE FOR				1ST ANGLE PROJECTION			
				ORIGINAL SCALE 1:15			
GENERAL ARRANGEMENT BUTANE LOADING PUMPS 10-P-1685 A/B/C PUMP TYPE - VS6				DRAWN: 12-JAN-2017 J. Hodgson			
				CHECKED: 12-JAN-2017 M. Bailey			
				APPROVED: 12-JAN-2017 S. Rhodes			
PART - No.	EN PG1002471880160-01					1 / 1	

