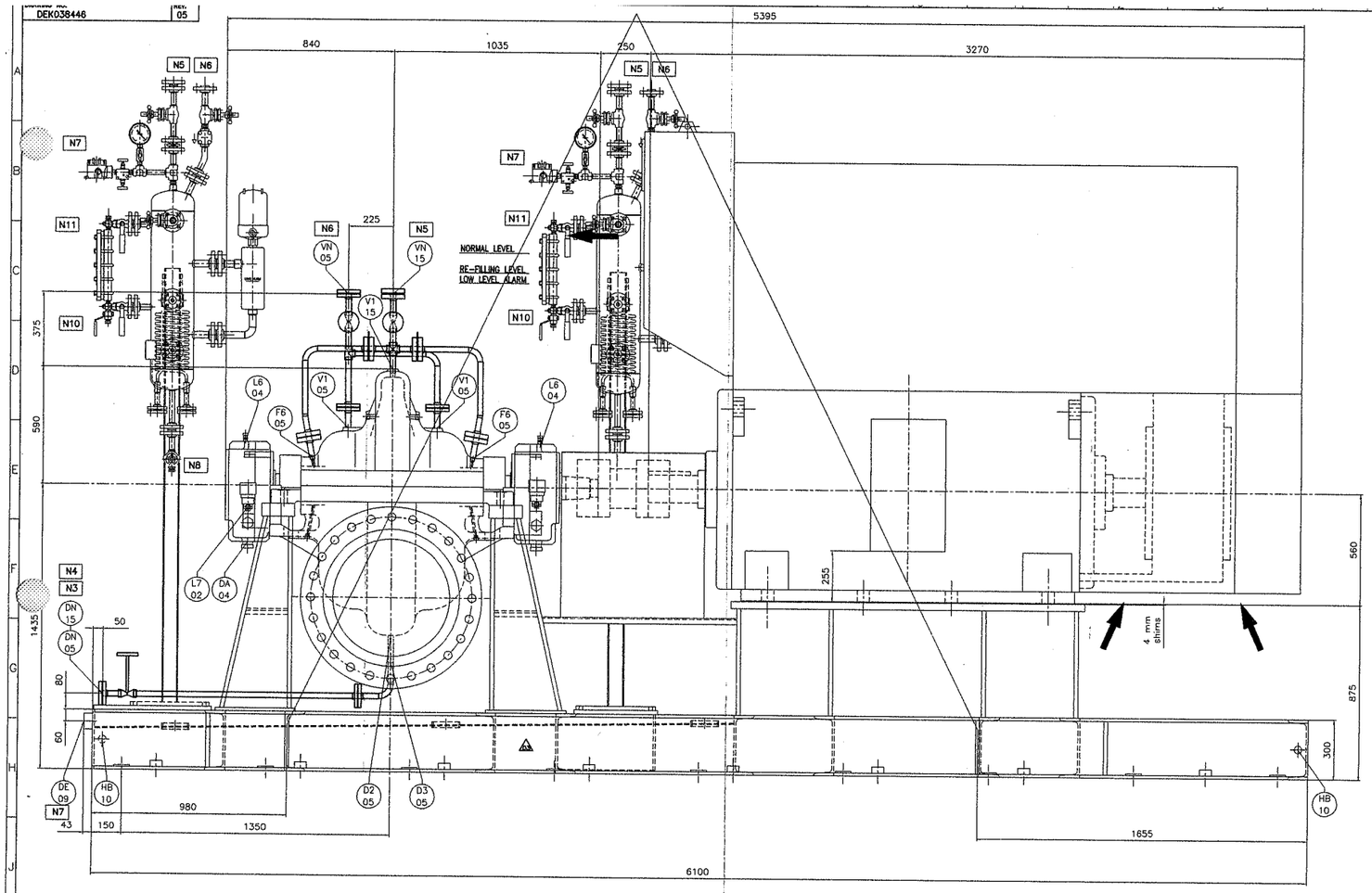
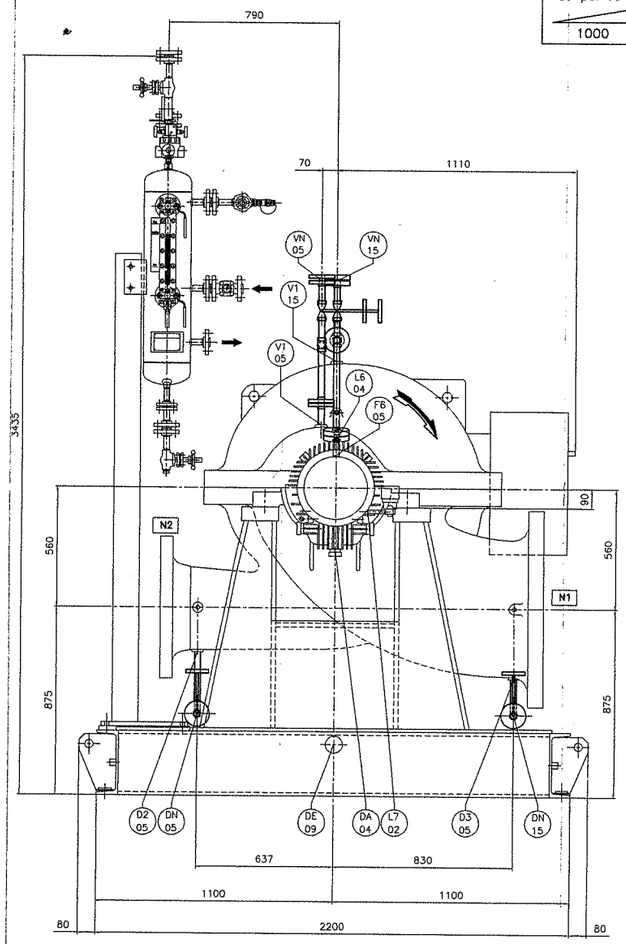
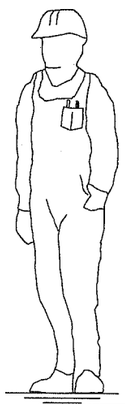
DEK038446 REV. 05

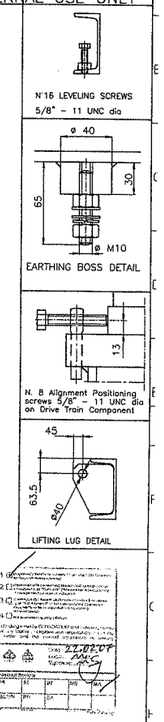


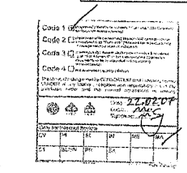




Aux.Piping Slope as per API 682					
40 / 1000					
05	20.02.07	REVISED	PKZ	JKR	DM
04	24.04.06	REVISED	G.A.	R.G.	F.R.
03	10.04.06	REVISED	G.A.	R.G.	F.R.
02	02.02.06	REVISED	G.A.	R.G.	F.R.
01	19.12.2005	REVISED	G.A.	R.G.	F.R.
Rev.	Date	Description	Drw.	Chk'd	Appr.

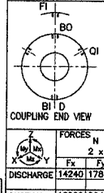
REVISIONS
FOR FPD INTERNAL USE ONLY





El.Motor :	ASI ROBICON
Type :	CT 560 X4
HZ:50	KW: 1700 PHASE: 3 V : 6000 RPM : 1489
ENCL/FRAME:	DWG:
Coupling	METASTREAM
Type :	TUKS2000
with non sparking guard Material : Aluminium	

MECHANICAL SEAL CONNECTIONS



FI	ON BODY	
BI	3/4" NPT	Barrier Fluid Inlet
BO	3/4" NPT	Barrier Fluid Outlet
QI	1/2" NPT	Quench Inlet
D	1/2" NPT	Drain

	FORCES N 2 x API 610 8 Ed.				MOMENTS Nm 2 x API 610 8 Ed.			
	Fx	Fy	Fz	Fr	Mx	My	Mz	Mr
DISCHARGE	14240	17800	11560	25560	12740	6240	9500	17080
SUCTION	16900	20460	13340	29700	14640	7320	10840	19640

FOUNDATION LOADS (approx. Weight)		
PUMP :	KG .	2400
BASE & COUPL :	KG .	4550
MOTOR :	KG .	8800
TOTAL :	KG .	13750

DYNAMIC LOADS ARE NEGLIGIBLE

CROSS SECTION	DWG: DDE000197
MECHANICAL SEAL	FLOWSERVE API CODE BQAIN
TYPE : QBB/QBW-5750/5750-5UKX/5UKX	DWG: DCT003843
FLUSHING LINE	API PLAN 11/53A/61 DWG: DDM205309
COOLING LINE	N.A.
CONTRACT No.	POGC-760-81-156
PROJECT	SOUTH PARS GAS DEVELOPMENT
SITE	ASSALUYEH PERSIAN GULF
SERVICE	REFLUX PUMP
ITEM	143-P-103 A/B/C
SERIAL N.	D85122/23/24

CUSTOMER INFORMATION

ALL PIPINGS / TUBES WILL BE ADEQUATELY SUPPORTED AT ASSEMBLY

FOR APPROVAL

FLOWSERVE Pump Division — DRWG. No.: P714628 — REV./02

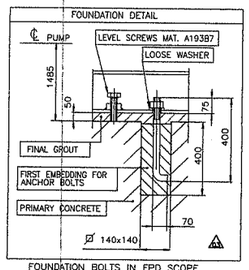
05HY0660/61/62

ALL FLANGES WILL BE SMOOTH FINISH 125–250 AARH

	SUCTION 24" Dia ASME 300 RF mm	DISCHARGE 14" Dia ASME 300 RF mm
DB Nominal Bore Dia.	575	336
OD Outside Flange Dia.	915	685
BC Bolt Circle Dia.	812.8	514.4
NF Number of Holes	24	20
DF Holes Diameter	41.3	31.8
RF Raised Face Dia.	692.1	412.8
TK Raised Face Thick.	2	2
TF Flange Thick.	70	54.4

CUSTOMER'S NOZZLES POSITION TOLERANCES
ALL CUSTOMER CONNECTIONS LOCATIONS DIMENSIONS HAVE A TOLERANCE OF ±13 (.5 inch) EXCEPT FOR THE PUMP SUCTION AND DISCHARGE NOZZLES WHICH HAVE A TOLERANCE OF ±6.4 (.25 inch)
BASEPLATE TOLERANCES ACCORDING TO API 610 Annex D

FOUNDATION DETAIL



FOUNDATION BOLTS IN FPD SCOPE

FOR PLAN53A RESERVOIR DETAILS SEE DWG : A1N56080

FOR MECH.SEAL DETAILS SEE DWG : DCT003843

TOLERANCES UNLESS OTHERWISE SPECIFIED MM	IN
.X ± 0.5	.X ± .5
.XX ± 0.25	.XX ± .25
.XXX ± 0.05	.XXX ± .125
.XXXX ± 0.005	.XXXX ± .0625

STATUS OF APPROVAL: CERTIFIED
ORDER No. 2005FLE0240521
DRAWN BY Dommouria A. 31.08.2005
CHECKED BY Rassetti G. DATE 31.08.2005
APPROVED BY Fristerra R. DATE 31.08.2005
Extracted X190930000
Substitutes
CAD File : 2005FLE0240521K1

Ist Angle Projection

PROPRIETARY NOTE
THIS DRAWING IS THE PROPERTY OF FLOWSERVE PUMP DIVISION AND IS LOANED SUBJECT TO RETURN ON REQUEST. IT MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ITS CONTENTS BE DISCLOSED TO OTHERS OR USED FOR ANY PURPOSE EXCEPT THAT FOR WHICH IT IS LOANED.

FLOWSERVE Pump Division Desio Operation

DWG TITLE: 14LPH34 CENTRIFUGAL PUMP GENERAL ARRANGEMENT

SIZE	DRAWING NO.	REV.
A0	DEK038446	05
SCALE 1:10	UNITS metric	SHEET NO. 1/1

RESERVOIR CONNECTIONS			
POS	Q.	CONN.TYPE	DESCRIPTION
N5	1	3/4" ANSI 600 RF	VENT / FLARE
N6	1	3/4" ANSI 600 RF	NITROGEN INLET
N7	1	1/2" NPT	FILLING
N8	1	3/4" NPT	DRAIN
N9	1	3/4" S.W.	DRAIN PLAN 53A
N10	1	1/2"NPT	LG DRAIN – DRAIN PLUGGED
N11	1	1/2"NPT	LG VENT – DRAIN PLUGGED

ITEM	POS	Q.	CONN.TYPE	DESCRIPTION
	D2 05	1	3/4" S.W.	Discharge Drain
	D3 05	1	3/4" S.W.	Suction Drain
N3	DN 05	1	3/4" S.W. ANSI 300 RF	Discharge Drain Connection Mat.: C.Steel+BLIND FLANGE
N4	DN 15	1	3/4" S.W. ANSI 300 RF	Suction Drain Connection Mat.: C.Steel+BLIND FLANGE
N5	VN 15	1	3/4" S.W. ANSI 600 RF	Case Vent Connection + API PLAN 11 Vent Mat.: AISI 316L+BLIND FLANGE
	L7 02	2	1/4" NPT	Constant Level Oiler TRICO
N1			24"	SUCTION
N2			14"	DISCHARGE

ITEM	POS	Q.	CONN.TYPE	DESCRIPTION
	V1 05	2	3/4" S.W.	Case Vent
N6	VN 05	1	3/4" ANSI 300 RF	Vent with first pipe sch.160–Globe Valve Term.Flange–Material:C.Steel+Blinde Flange
	HB 10	2	M10	Earthing Bosses on opposite sides
	DA 04	2	1/2" NPT	Support Frame Oil Drain
N7	DE 09	1	2" NPT	Baseplate Drain
	L6 04	2	1/2" NPT	Breath.& Oil Filling Hole
	F6 05	2	3/4" S.W.	API PLAN 11 Inlet Drilled ø12 Orifice ø3,17

Rev.	Date	Description	ORIGI	PRPD	CHKD	APPD	Contractor Approved
3	20.02.07	FOR APPROVAL		PKZ	JKR	DM	
2	24.04.06	FOR APPROVAL		G.A.	R.G.	F.R.	
1	10.01.06	REVISED		G.A.	R.G.	F.R.	
0	11/07/2005	FIRST ISSUE		G.A.	R.G.	F.R.	

SOUTH PARS GAS FIELD DEVELOPMENT - PHASES 9&10, ASSALUYEH - IRAN ONSHORE FACILITIES

Project No. : POGC-760-81-156 | Doc. Class : | Scale :

TITLE: REFLUX PUMP 143-P-103 A/B/C GENERAL ARRANGEMENT

DRAWING No. VP-6340-143-P103-116 | SHT No. 1 of 1 | Rev. 3