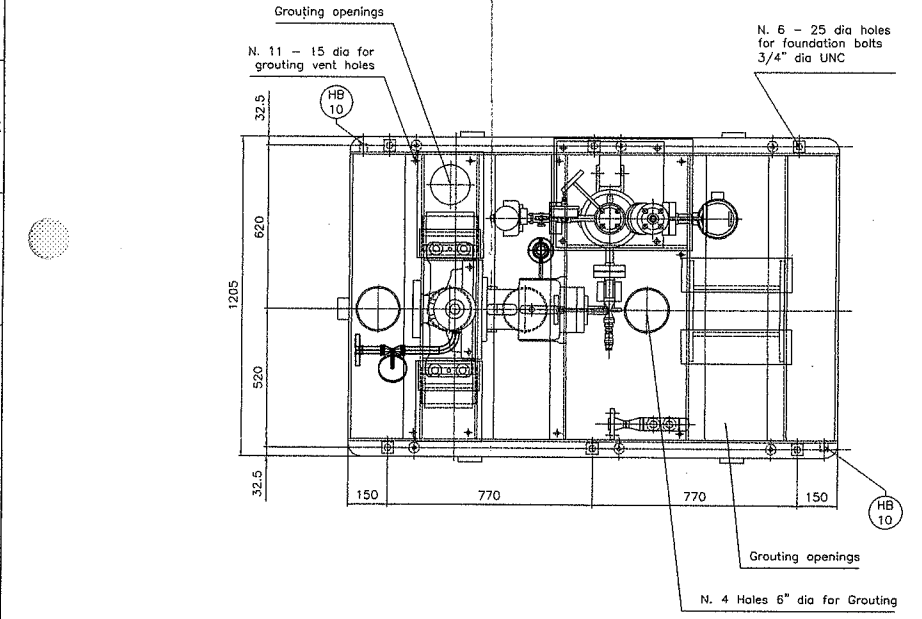


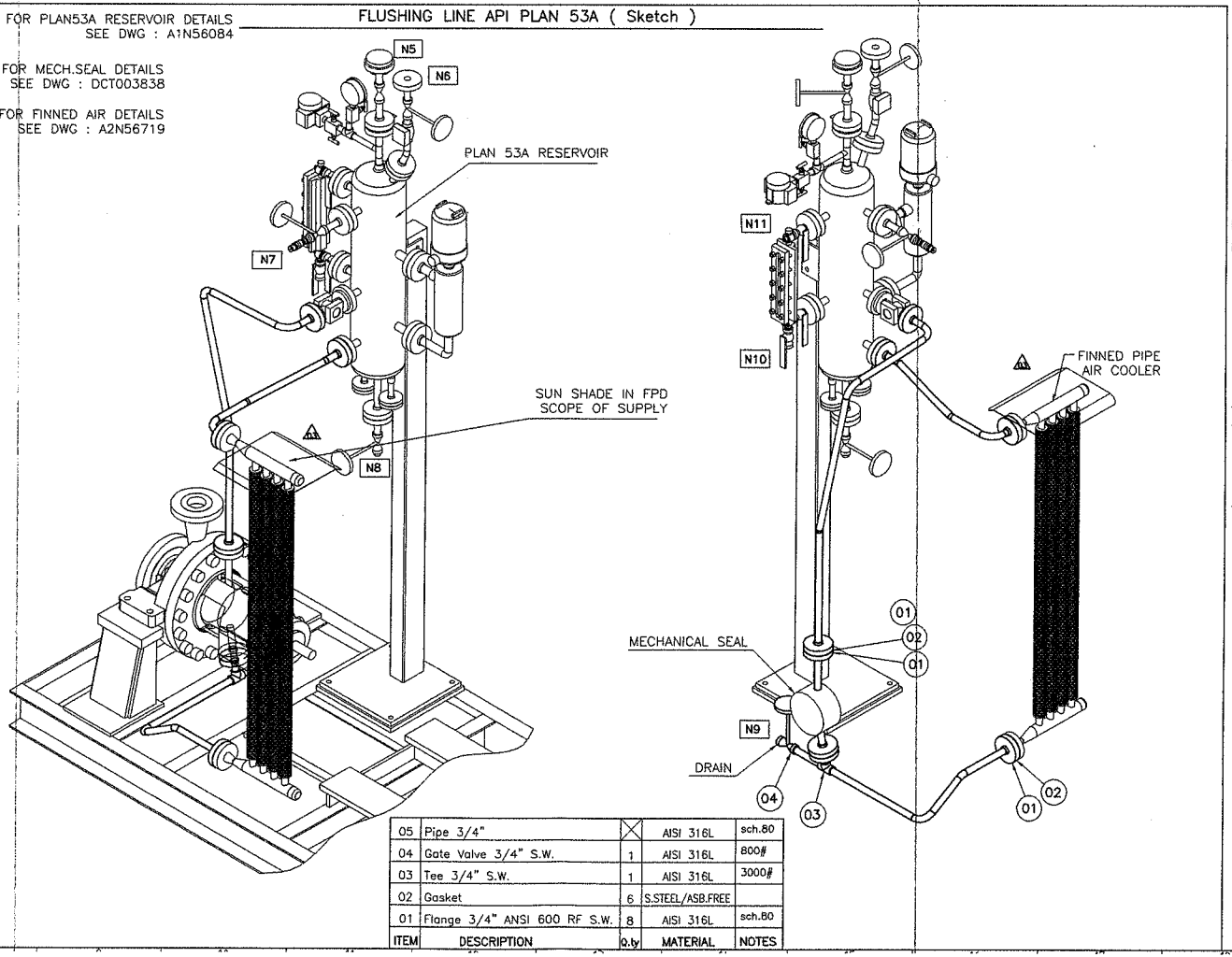
ALL PIPINGS / TUBES WILL BE ADEQUATELY SUPPORTED AT ASSEMBLY



FOR PLAN 53A RESERVOIR DETAILS SEE DWG : A1N56084

FOR MECH. SEAL DETAILS SEE DWG : DCT003838

FOR FINNED AIR DETAILS SEE DWG : A2N56719



FOR APPROVAL

DRWG. No.: P714623

Pump Division REV/02

05HY0648/49/50/51

CUSTOMER'S NOZZLES POSITION TOLERANCES

ALL CUSTOMER CONNECTIONS LOCATIONS DIMENSIONS HAVE A TOLERANCE OF ±13 (0.5 in) EXCEPT FOR THE PUMP SECTION AND DISCHARGE NOZZLES WHICH HAVE A TOLERANCE OF ±6.4 (0.25 in)

BASEPLATE TOLERANCES ACCORDING TO API 610 Annex D

TOLERANCES UNLESS OTHERWISE SPECIFIED	STATUS OF APPROVAL
MM	CERTIFIED
IN	2205R10237011
X ± 0.5	XX ± 0.5
XX ± 0.25	XX ± 0.25
XX ± 0.05	XX ± 0.05
XX ± 0.005	XX ± 0.005

1st Angle Projection

FOUNDATION DETAIL

LEVEL SCREWS MAT. A193B7

LOOSE WASHER

FINAL GROUT

FIRST EMBEDDING FOR ANCHOR BOLTS

PRIMARY CONCRETE

FOUNDATION BOLTS IN FPD SCOPE

REVISIONS FOR FPD INTERNAL USE ONLY

Rev.	Date	Description	Rev.	Date	Description
01	13.12.2005	REVISED	04	20.02.07	REVISED
02	20.01.2006	REVISED	05	18.04.2008	REVISED
03	18.04.2008	REVISED	06	20.01.2008	REVISED
04	18.07.2008	FIRST ISSUE	07	13.12.2005	REVISED

Centers of Gravity (mm)

Centers of Gravity (mm)	Centers of Gravity (mm)
X 492	X 1380.3
Y -10	Y 25
Z 520	Z 510
X 1014	X 1014
Y 0	Y 0
Z 341	Z 341

EARTHING BOSS DETAIL

SELF-VENTING PUMP

ALL FLANGE HOLES STRADDLE CENTERLINE

ALL FLANGES WILL BE SMOOTH FINISH 125-250 AARH

mm	mm
78	41
210	155
158.3	114.3
8	4
22.2	22.2
127	7.3
2	2
27	19.1

EL Motor :

Type : 160L

HZ: 50 KW: 15 PHASE: 3 V: 400 RPM : 2935

ENCL/FRAME: DWG:

Coupling : METASTREAM

Type : TSK50013

with non sparking quard 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

COUPLING END VIEW

2 x FORCES	2 x MOMENTS
N API 610	Nm API 610
DISCHARGE 1420 1160 1780 2560 920 460 700 1240	
SUCTION 2660 2140 1780 3860 1900 940 1440 2580	

FOUNDATION LOADS (approx. Weight)

KG	KG
PUMP : 148	
BASE & COUPL : 380	
MOTOR : 126	
TOTAL : 654	

DYNAMIC LOADS ARE NEGLECTABLE

CROSS SECTION DWG: DCD00192

MECHANICAL SEAL FLOWERVE API CODE BDAH

TYPE : QBBW/GBW-2825/2500-SUNX/SUNX DWG: DCT003838

FLUSHING LINE API PLAN 11/53A/61

COOLING LINE N.A.

CONTRACT No. POGC-760-B1-156

PROJECT SOUTH PARS GAS DEVELOPMENT

SITE ASSALAYER-IRAN GULF

SERVICE LP FLARE STACK PUMPS

ITEM 140-P-105, 205 A/B

SERIAL N. DBS110/117/12/13

CUSTOMER INFORMATION

Flowserve Pump Division

DWG TITLE 1.5HPX10A CENTRIFUGAL PUMP GENERAL ARRANGEMENT

SIZE A0 DEK038441

SCALE 1/10 UNITS metric SHEET NO. 1/1

Rev. Date Description ORIGIN FPD CHTD APPD

SOUTH PARS GAS FIELD DEVELOPMENT - PHASES 9A16, ASSALAYER-IRAN ONSHORE FACILITIES

Project No. 1.POGC-268-B1-156

Doc. Class. Scale:

Flowserve

TITLE: LP FLARE STACK PUMPS - HP-105-205 A/B GENERAL ARRANGEMENT

DRAWING No. VP-4340-149-P105-I11

SHT No. 1 of 1 Rev. 3