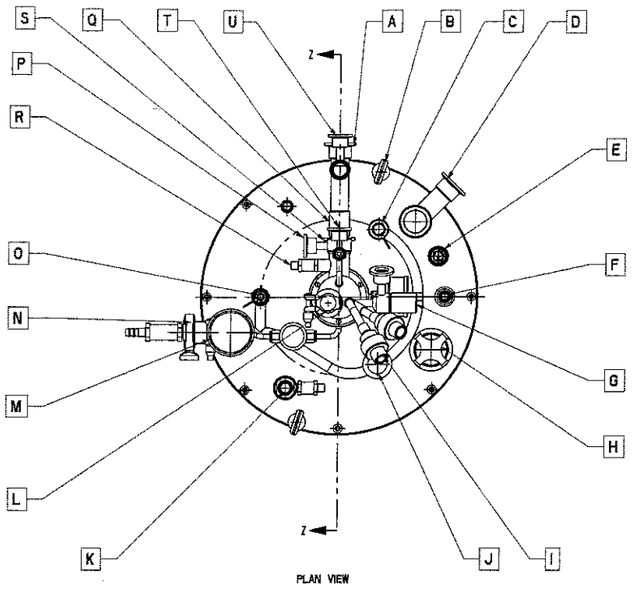
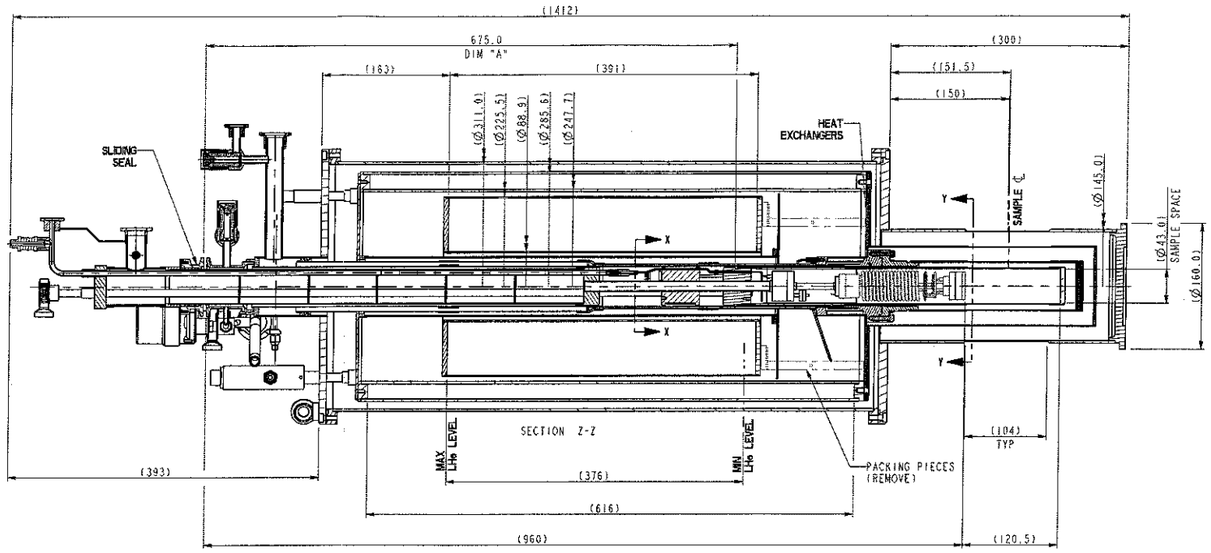
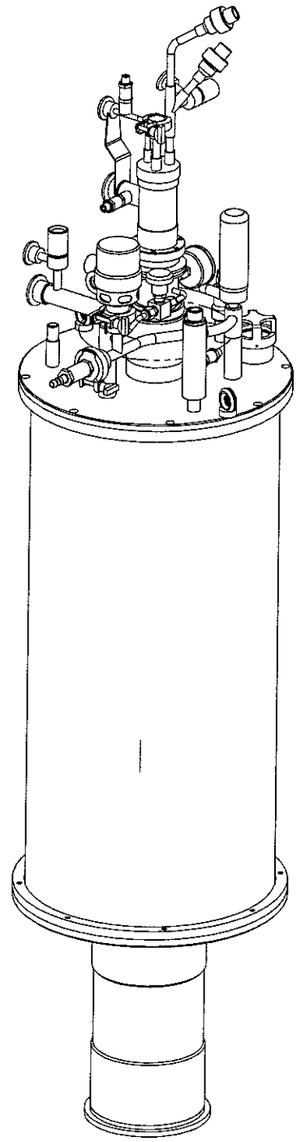
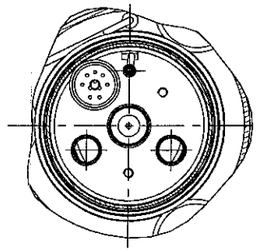


PLAN VIEW

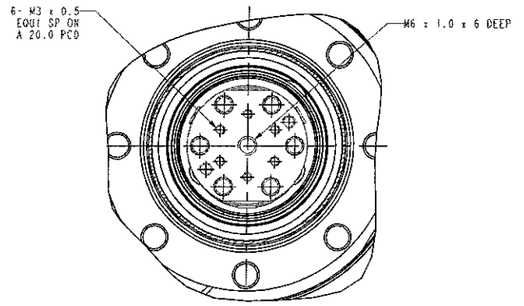




SCALE 1:4



1OP 1K STAGE
SECTION X-X
SCALE 1:1



BASE MIXING CHAMBER
SECTION Y-Y
SCALE 1:1

ITEM	DESCRIPTION - KELVT INSERT	SIZE
A	HEAT EXCHANGER PUMPING PORT	NW25
B	LIFTING EYES M8	150KG
C	TRANSFER TUBE ENTRY	Ø12.7
D	OVC VACUUM VALVE	NW25
E	10 PIN SEAL HEATER/SENSOR	-
F	N2 RELIEF VALVE	-
G	IVC PUMPING PORT/RELIEF VALVE	NW16
H	OVC RELIEF VALVE	25MM
J	NEEDLE VALVE	AUTO
K	NITROGEN FILLER/EXHAUST PORTS & PROBE	-
L	L.O.S PORT Ø6MM	NW16
M	MAIN BATH RELIEF VALVE	NW25
N	MAIN BATH EXHAUST PORT	NW25
O	HELIUM LEVEL PROBE ENTRY	Ø4.8
P	SAMPLE SPACE PUMPING PORT	NW16
Q	SAMPLE SPACE RELIEF VALVE	-
R	HE3 RELIEF VALVE	1/8 NPT
S	HE3 PUMPING PORT	NW25
T	HE3 RETURN/RELIEF VALVE	NW16
U	HEAT EXCHANGER PUMPING/RELIEF VALVE	NW16

VESSEL VOLUMES	
OUTER VACUUM CAN	49L
HELIUM CAN (4He)	16L
USEFUL LIQUID HELIUM	13L
LIQUID NITROGEN JACKET	9.8L
MIXTURE DUMP	15L

LIQUID HELIUM LEVEL PROBE LENGTHS	
OVERALL	659
ACTIVE	376

LIQUID HELIUM COLD TRAP LENGTHS	
OVERALL	N/A
TRANSFER TUBE DELIVERY LEG LENGTH	
OVERALL	N/A

MAGNET SPECIFICATION	
1st FIELD (4.2K)	N/A
2nd FIELD (2.2K)	N/A
COLD BORE	N/A
HOMOGENEITY	N/A
PERSISTANCE	N/A
CURRENT (AMPS)	N/A

HEIGHT REQUIREMENTS	
MINIMUM HEIGHT REQUIRED TO REMOVE SERVICES FROM CRYOSTAT EXCLUDING WINCH:	
INSERT	2.4M
TRANSFER TUBE	N/A
SAMPLE PROBE	N/A

DRAWING APPROVAL	
PROJECT NUMBER	19200
PROJECT NAME	KUESSEL
CUSTOMER SIGNATURE	N/A
DATE	

APPROX WEIGHT OF SYSTEM EXCLUDING CRYOGENS : 105KG

Item	Part No	Description	Length	Qty.	REMARKS
4	Z100034	A240066 N2 LEVEL PROBE		1	
3	PRA0598	AUTO NEEDLE VALVE ASSEMBLY		1	
2	Z100027	WIRED INSERT 19200 KUESSEL		1	
1	A100250	VARIOX 13L BL SYSTEM MK3		1	

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TUBNEY WOODS
ABINGDON, OXON, OX13 5QX, ENGLAND

AIA REVISION : 10

DO NOT SCALE IF IN DOUBT ASK

REMOVE ALL BURRS AND SHARP EDGES

TOLERANCES UNLESS STATED FOR:

MACHINING	ASSEMBLY
X ± 0.5mm	LINEAR ± 1mm
X.X ± 0.3mm	ANGULAR ± 1°
X.XX ± 0.1mm	
ANGLE ± 0°15'	

SURFACE FINISH 1.6

UNLESS STATED

mm UNLESS STATED

DESCRIPTION: SYSTEM GA 19200 KUESSEL

OXFORD INSTRUMENTS

SCALE	DATE	DRAWN	RELEASE LEVEL	DRAWING NUMBER	REV
1:4	26-Mar-04	P.Cetnik	Production	A100252	01

ONLY MANUFACTURE DRAWINGS WHEN RELEASE LEVEL IS SET TO "PRODUCTION"

SHEET 1 OF 1