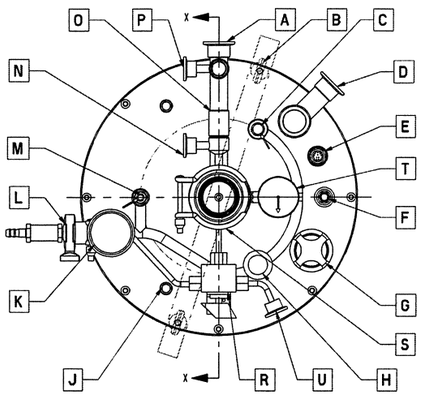
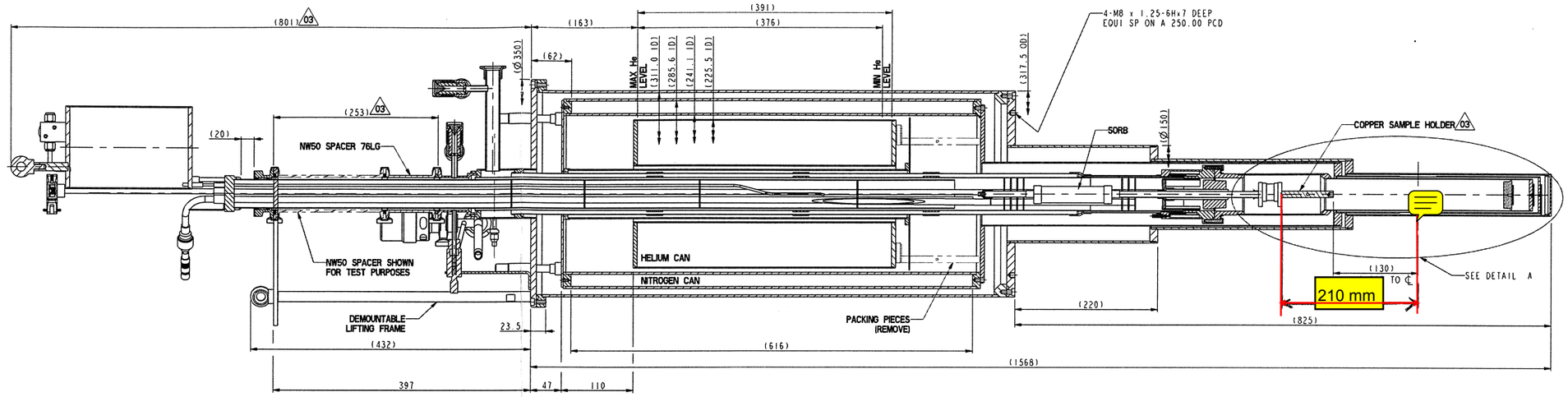
A1 ORIGINAL SIZE

THIRD ANGLE PROJECTION

Model Version 0+



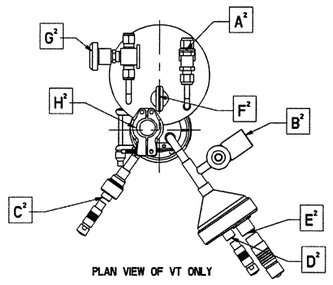
PLAN VIEW WITH VT
REMOVED AND LIFTING FRAME
SHOWN TRANSPARENT FOR CLARITY



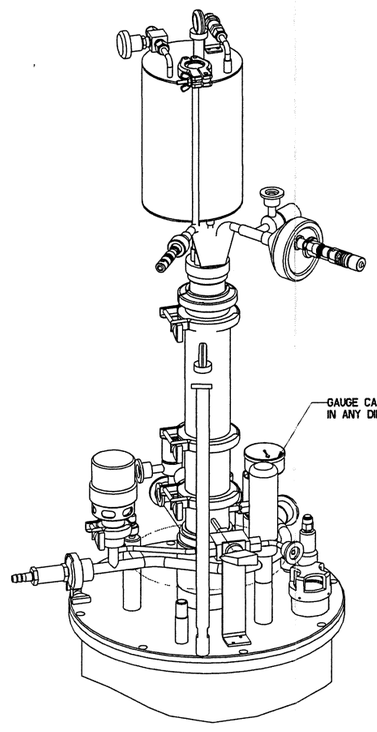
SECTION X-X

ITEM	DESCRIPTION - VARIOX BL MK4	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	OVC RELIEF VALVE	25MM
H	NEEDLE VALVE	AUTO
J	NITROGEN FILLER/EXHAUST PORTS	-
K	MAIN BATH RELIEF VALVE	NW25
L	MAIN BATH EXHAUST PORT	NW25
M	HELIUM LEVEL PROBE ENTRY	Ø4.8
N	SAMPLE SPACE PUMPING PORT	NW16
O	SAMPLE SPACE RELIEF VALVE	-
P	HEAT EXCHANGER PUMPING/RELIEF VALVE	NW16
R	IVC 3 WAY VALVE-GYROLOC FITTING	1/4"
S	SAMPLE ACCESS PORT	NW50
T	PRESSURE GAUGE	+1 BAR
U	EXCHANGE GAS ENTRY	NW16

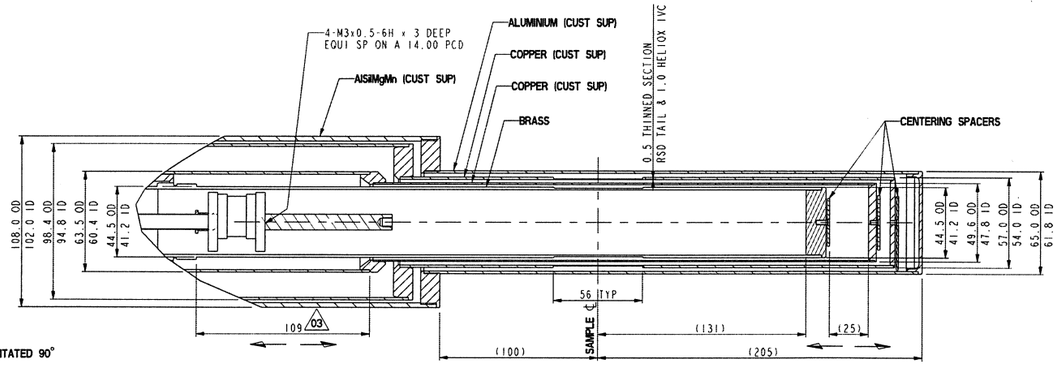
	DESCRIPTION - HELIOX VT30 INSERT	
A^2	^{3}He DUMP VESSEL SAFETY VALVE	-
B^2	IVC PUMPING PORT/VALVE	NW16
C^2	1x10 WAY DIAGNOSTIC WIRING	FISCHER
D^2	1x10 WAY DIAGNOSTIC WIRING	FISCHER
E^2	1x24 WAY CUSTOMER WIRING	FISCHER
F^2	LIFTING EYE BOLT	M8
G^2	^{3}He DUMP VESSEL VALVE	-
H^2	Ø6mm L.O.S PORT	NW16



PLAN VIEW OF VT ONLY



SCALE 1:4



DETAIL A
SCALE 1:2

NOTE:
CUST SUP:CUSTOMER WILL SUPPLY THESE TUBES

VESSEL VOLUMES	
OUTER VACUUM CAN	11L
HELIUM CAN (4He)	16L
USEFUL LIQUID HELIUM	13L
LIQUID NITROGEN JACKET	9.8L
3He DUMP	2.5L

LIQUID HELIUM LEVEL PROBE LENGTHS	
OVERALL	659
ACTIVE	376

LIQUID HELIUM COLD TRAP LENGTHS	
OVERALL	N/A
TRANSFER TUBE LENGTH	
DELIVERY	1000

HEIGHT REQUIREMENTS	
MINIMUM HEIGHT REQUIRED TO REMOVE SERVICES FROM CRYOSTAT EXCLUDING WINCH:	
INSERT	4.1M

DRAWING APPROVAL	
PROJECT NUMBER	21679
PROJECT NAME	ZIMMERMANN
CUSTOMER SIGNATURE	
DATE	
APPROX WEIGHT OF SYSTEM EXCLUDING CRYOGENS : 100KG	

Item	Part No	Description	Length	Qty	REMARKS
8	Z240620	WIRED INSERT ZIMMERMANN - 21679		1	
7	VEM0145	CENTRING NW50 VIT C105-17-395		3	
6	VEL0011	CLAMPING RING NW50 ST		3	
5	PRA0598	AUTO NEEDLE VALVE ASSEMBLY		1	
4	P240674 03	NW50 SPACER - 76 LG		1	
3	P240621	NW50 SPACER - 165 LG		1	
2	A240364	VARIOX 13L BL SYSTEM - 21679		1	
1	A240352	VARIOX BL LIFTING FRAME ASSY - 390LG		1	

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A1A 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 - 21679 ZIMMERMANN

OXFORD INSTRUMENTS

SCALE	DATE	DRAWN	RELEASE LEVEL	ONLY MANUFACTURE DRAWINGS WHEN RELEASE LEVEL IS SET TO "PRODUCTION"	DRAWING NUMBER	REV
1:4	08-Aug-05	R.Bennett	Production		A240363	03

SHEET 1 OF 1