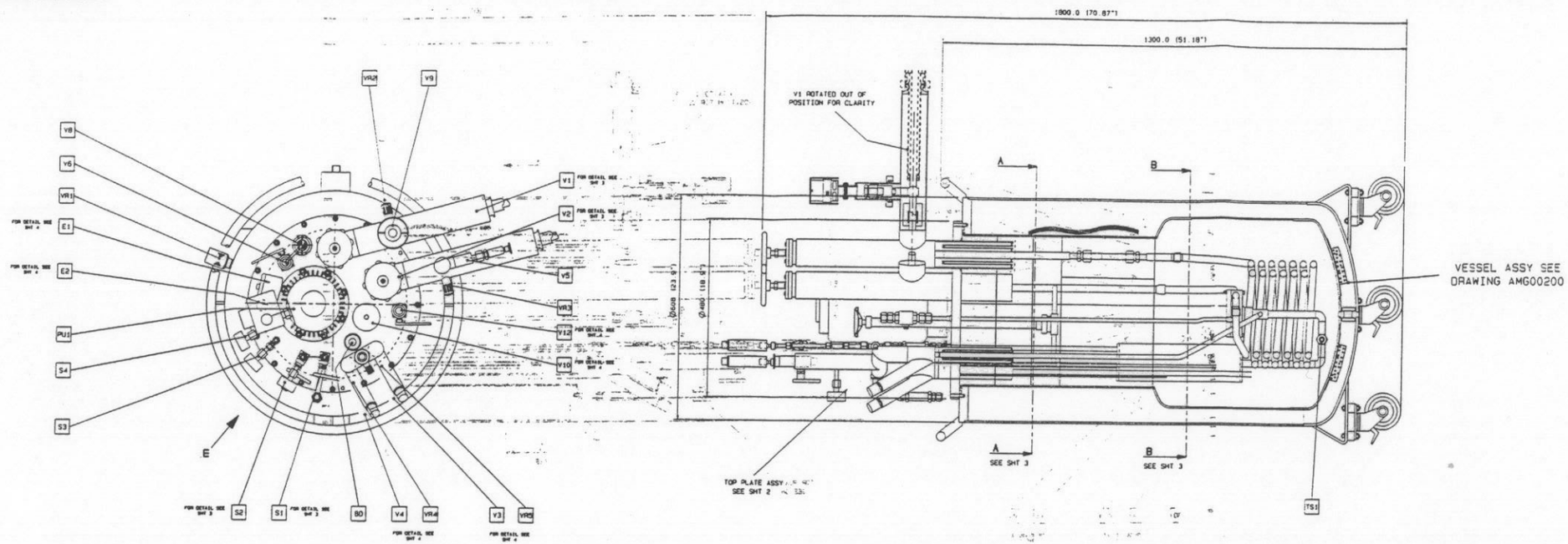
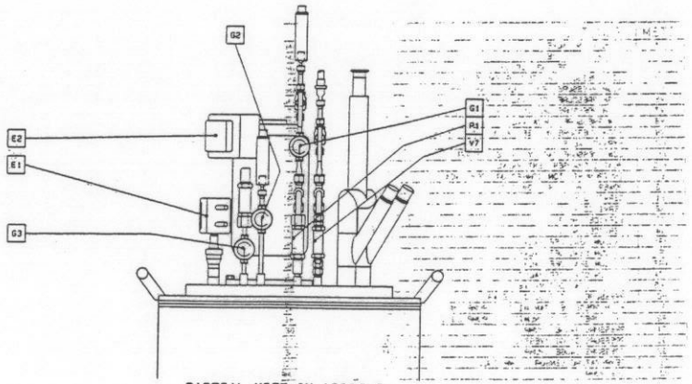
DRAWING NUMBER	FIRST ISSUE
AMG01100	89821
SHEET 1 OF 4	CURRENT ISSUE





PARTIAL VIEW ON ARROW E

ITEM	FUNCTION	DESCRIPTION
V1	ISOLATION VALVE	3/4" RIGTH ANGLED HAND VALVE (VACUUM INSULATED)
V2	ISOLATION VALVE	3/4" RIGTH ANGLED HAND VALVE (VACUUM INSULATED)
V3	HIGH PRESSURE LN2 TOP UP VALVE	1/2" RIGTH ANGLED HAND VALVE (VACUUM INSULATED)
V4	LOW PRESSURE LN2 TOP UP VALVE	1/2" RIGTH ANGLED HAND VALVE (VACUUM INSULATED)
V5	HIGH PRESSURE VENT VALVE (INSTRUMENT)	1/2" RIGHT ANGLED HAND VALVE (VACUUM INSULATED)
V6	HIGH PRESSURE VENT VALVE (VESSEL)	1/2" HIGH PRESSURE BALL VALVE (PTFE SEAL)
V7	HIGH PRESSURE SAFETY VALVE (VESSEL)	1/4" RELIEF VALVE SET AT 140 PSI
V8	LOW PRESSURE CHECK VALVE	1" INLINE CHECK VALVE SET AT 1 PSI
V9	HIGH PRESSURE RELIEF VALVE (INSTRUMENT)	1/4" RELIEF VALVE SET AT 140 PSI
V10	BYPASS VALVE	1/2" QUATER TURN BALL VALVE (PTFE SEAL)
V11	LOW PRESSURE SAFETY VALVE (DEWAR)	1/2" RELIEF VALVE SET AT 5 PSI
V12	HEAT EXCHANGER VENT VALVE	1/4" HAND VALVE
E1	INSTRUMENTATION CONNECTOR FROM RACK	50 WAY D CONNECTOR
E2	POWER CONNECTOR FROM RACK	10 WAY HARTING CONNECTOR
S1	SERVICES NO 1	HEATER STICK FEED THROUGH (HIGH PRESSURE BUFFER VOLUME)
S2	SERVICES NO 2	LN2 LEVEL PROBE FEED THROUGH (HIGH PRESSURE BUFFER VOLUME)
S3	SERVICES NO 3	LN2 LEVEL PROBE FEED THROUGH (VESSEL)
S4	SERVICES NO 4	PRESSURE MESUREMENT PUMP OUTLET
VR1	VACUUM SEAL OFF VALVE	PUMP PORT / RELIEF VALVE FOR VACUUM VESSEL
VR2	VACUUM SEAL OFF VALVE	PUMP PORT / RELIEF VALVE FOR VALVE V1
VR3	VACUUM SEAL OFF VALVE	PUMP PORT / RELIEF VALVE FOR VALVE V2
VR4	VACUUM SEAL OFF VALVE	PUMP PORT / RELIEF VALVE FOR VALVE V4
VR5	VACUUM SEAL OFF VALVE	PUMP PORT / RELIEF VALVE FOR VALVE V3
BD	PRESSURE RELIEF DISC (DEWAR)	1 1/2" DIAM. DISC
P1	HIGH PRESSURE TRANSMITTER (PUMP INLET)	2 WIRE PRESSURE TRANSMITTER
P2	HIGH PRESSURE TRANSMITTER (PUMP OUTLET)	2 WIRE PRESSURE TRANSMITTER
G1	PRESSURE GAUGE (PUMP INLET)	BOURDON PRESSURE GAUGE (0 TO 200 PSI / 0 TO 14 BAR)
G2	PRESSURE GAUGE (VESSEL)	BOURDON PRESSURE GAUGE (0 TO 15 PSI / 0 TO 1 BAR)
G3	PRESSURE GAUGE (PUMP OUTLET)	BOURDON PRESSURE GAUGE (0 TO 200 PSI / 0 TO 14 BAR)
TS1	TEMPERATURE SENSOR (PUMP INLET)	LAKESHORE DT-470 SILICON DIODE (4 WIRE)
PU1	LN2 PUMP	BARBER NICHOLS LN2 PUMP

ASSY NOTES

1. ALL PIPE COMPNENTS TO BE CLEANED TO A-QA-MI 07 (STAINLESS STEEL) AND A-QA-MI 08 (COPPER).
2. LEAK TEST TO A-QA-II 01.
3. PRESSURE TEST TO PROJECT NOTE 8-CY-TP1/1

DATE: REV:	DO NOT SCALE IF IN DOUBT, ASK	0 80 200 400	ACCELERATOR TECHNOLOGY GROUP APS	OXFORD
DATE: REV:	REMOVE ALL BURRS & SHARP EDGES	THIRD ANGLE PROJECTION	TOLERANCES UNLESS STATED	TITLE: LN2 PUMPING SYSTEM SERIES C	DRAWING NUMBER AMG01100
DATE: 26.01.97 REV: 02					SHEET 1 OF 4
DATE: 13.11.95 REV: 00			A.DAY 13.11.95	11/2/97 11/2/97	A0 01