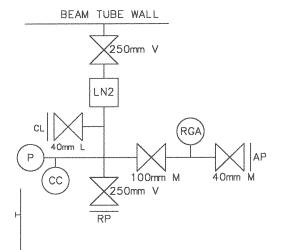
PUMP PORT HARDWARE

TYPE B: FOR PORTS DURING
BAKE & LEAK CHECK
10 UNITS REQUIRED, INCLUDING
1 SPARE



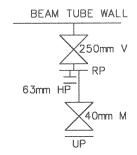
NOTE THAT PUMP PORTS AT MODULE ENDS AT THE CORNER STATION ARE POSITIONED ON THE INBOARD SIDE OF THE ANGLE BETWEEN THE BEAM TUBE ARMS.

В

CORNER STATION

TYPE H: FOR PORTS DURING HOLD
(AFTER ACCEPTANCE,
BEFORE OPERATION)
75 UNITS REQUIRED: 36 PER SITE,

PLUS 3 SPARES



LEGEND FOR PUMP PORT HARDWARE:

CALIBRATED LEAKS

CALIBRATED GAS SOURCES

CALIBRATED GAS SOURCES

OIL FREE, MECHANICAL

PUMP

PORTABLE CALIBRATION MODULE

AP: BLANKED PORT FOR AUXILIARY TURBO PUMP

CC: COLD CATHODE GAUGE

CL: BLANKED PORT FOR CALIBRATED LEAKS CM: CAPACITANCE MANOMETER GAUGE (ABSOLUTE)

G: BOURDON GAUGE

HP: BLANKED PORT FOR RGA HEAD INSTALLATION LN2: LIQUID NITROGEN TRAP, 4 M2 COLD SURFACE

L: VARIABLE LEAK VALVE M: METAL SEALED VALVE

P: PIRANI GAUGE

R: REGULATOR WITH DUAL GAGES

RGA: THE FOLLOWING SYSTEM OR ITS EQUIVALENT: BALZERS QMG 421-1 (MASS RANGE 1-100, CONSISTING OF QMS 421-1, QUADSTAR 421, QMA 125 WITH GRID ION SOURCE 110V AND SEM 90 DEG OFF AXIS/FARADAY) PLUS IC 421 ION COUNTER, CP 400 ION COUNTER PREAMPLIFIER, AND QAM ANALYSIS MATRIX SOFTWARE

BLANKED PORT FOR ROOTS AND TURBO PUMPS

TP: BLANKED PORT FOR TURBO PUMP

UP: BLANKED PORT FOR UTILITY PURPOSES

V: VITON SEALED VALVE (VITON SEALS ARE PARKER O-RINGS, PRE-BAKED)

PLAN VIEW OF ARM AT HANFORD SITE, SHOWING TYPES OF HARDWARE AT EACH PUMP PORT

