



- NOTES:
- THIS IS A UHV ASSEMBLY. KEEP THE UHV PARTS CLEAN DURING ASSEMBLY AND WRAP UP FOR UHV PACKING WITH ALUMINUM FOIL.
 - DEVICE SHALL BE LEAK TESTED USING A MASS SPECTROMETER WITH MINIMUM SENSITIVITY FOR HELIUM OF 2X 10⁻¹⁰ STANDARD CC/SEC PER LEAK METER DIVISION, SUCH AS:
 - ALCATEL ASM-110TCL
 - VARIAN NCR 925 OR 936
 - VEECO MS-9, MS-90 OR MS-18
 - Du PONT CEC 24-120B
 CALIBRATION OF THE LEAK DETECTOR SENSITIVITY SHALL BE PERFORMED JUST PRIOR TO TESTING. FINAL TEST WILL CONSIST OF SURROUNDING THE CHAMBER (BAGGING) WITH HELIUM. THE CHAMBER WILL BE REJECTED IF A 2% DEFLECTION IN THE MOST SENSITIVE RANGE OF THE LEAK DETECTOR IS SENSED WITHIN 1 MIN.
 - ALL DIMENSIONS WITH ARE MILLIMETERS

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
4		#4 PLAIN WASHER	SST	3
3		#4-40 UNC x 3/8" LG. SHCS	SST SILVER PLATED	3
2	P4105090703-820001	WIRE SCREEN	SST 304	1
1	P4105090703-820100	CHAMBER WELDMENT	SST 304	1

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		LOG NUMBER		THIS DRAWING IS THE PROPERTY OF	
DECIMALS	ANGULAR	A11810	ARGONNE NATIONAL LABORATORY		
0.0001 - .001	0.001 - .01	DRAWN BY	DATE	CHIEF DESIGN ENGINEER	DATE
.001 - .005	.005 - .01	J.G.	6/17/93	D.SHU	8/31/93
.005 - .010	.010 - .020	DESIGNED BY	DATE	PROJECT MGR.	DATE
.010 - .020	.020 - .050	J.CHANG	8/31/93	T.M.KUZAY	8/31/93
.020 - .050	.050 - .100	DESIGNER	DATE	RESPONSIBLE ENGINEER	DATE
.050 - .100	.100 - .200	J.CHANG	6/7/93	J.CHANG	8/31/93
.100 - .200	.200 - .500	APPROVED/RELEASED			
.200 - .500	.500 - 1.000	J.CHANG			
1.000 - 2.000	2.000 - 5.000	MATERIAL	SEE PARTS LIST		
2.000 - 5.000	5.000 - 10.000	SCALE	1:1		
5.000 - 10.000	10.000 - 25.000	SHEET	1 of 1		
10.000 - 25.000	25.000 - 50.000	DWG. NUMBER	P4105090703-820000-00		
25.000 - 50.000	50.000 - 100.000	TITLE	ADVANCED PHOTON SOURCE V3 FRONT END 8" FLANGE PUMP ADAPTOR ASSEMBLY		

BY	CHANGE DESCRIPTION	BY	CHKD	DATE

REVISIONS

DO NOT SCALE DRAWING