



- NOTES:
- WHEN MACHINING VACUUM PARTS, USE OF SILICONE AND SULPHUR-BASED CUTTING FLUIDS IS PROHIBITED. USE ONE OF THE FOLLOWING:  
A) CIMCOOL 5 STAR 49  
B) TRIM SOL
  - THIS IS A UHV PART, ELECTROPOLISHING IS NEEDED BEFORE WELDING. PRIOR TO ELECTROPOLISHING, THE PART NEEDS TO GO THROUGH A MULTIPLE STEP CLEANING PROCESS INVOLVING DEGREASING, WASHING AND DRY NITROGEN BLOW DOWN.
  - KEEP THE PART CLEAN, AND WRAP FOR UHV PACKING WITH ALUMINUM FOIL.
  - DIMENSIONS IN [ ] ARE MILLIMETERS AND FOR REF. ONLY

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
REVISIONS				

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		THIS DRAWING IS THE PROPERTY OF		
<b>TOLERANCES</b> DECIMALS      ANGULAR .X - .03 [0.7620]      - .25 .XX - .01 [0.25] .XXX - .005 [0.127]		<b>ARGONNE NATIONAL LABORATORY</b> 		
LOG NUMBER <b>A1433800</b>		TITLE <b>ADVANCED PHOTON SOURCE</b> V1 APS FRONT END 14 mm X 78 mm X 182 mm DIFFERENTIAL TUBE		
DRAWN BY <b>MUSCIA</b>	DATE <b>10/22/93</b>	CHIEF DESIGN ENGINEER <b>D. SHU</b>	DATE <b>11/15/93</b>	PROJECT MGR. <b>M. KUZAY</b>
CHECKED BY <b>J. WOTHE</b>	DATE <b>11/15/93</b>	DESIGNER <b>SHU/MUSCIA</b>	DATE <b>10/22/93</b>	APPROVED/RELEASED <b>D. SHU</b>
MATERIAL <b>12 GA. (.105) 304 STAINLESS STEEL</b>		SCALE <b>1:1</b>	SIZE <b>C</b>	DRAWING NUMBER <b>P4105090701-830101-00</b>
SHEET 1 of 1				