



NOTE:

1. THIS IS A ULTRA-HIGH VACUUM COMPONENT (UHV).
2. 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
3. MODIFY FROM PURCHASED PART
Ø312 SHOULDER SCREW x .44 LG.
(SILVER PLATED) 304 SST
4. ALL DIMENSIONS IN [] ARE MILLIMETERS AND ARE FOR REFERENCE 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.		LOG NUMBER A4840205-00	THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY	
DECIMALS: .X ±.1 [2.5], .XX ±.01 [0.25], .XXX ±.005 [0.13] ANGULAR: ± 0°30' SURFACE ROUGHNESS: 125 ✓ REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX. SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1 DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5 DO NOT SCALE DRAWING		DRAWN BY: MUSCIA CHECKED BY: J. CHANG DESIGNER: CHANG/MUSCIA RESPONSIBLE ENGINEER: J. CHANG MATERIAL: SEE NOTE #3	CHIEF DESIGN ENGINEER: D. SHU GP LEADER: T.M. KUZAY PROJECT MGR. APPROVED/RELEASED	DATE: 12/12/99 DATE: 1/6/00 DATE: DATE: DATE: DATE: SCALE: 2:1 SHEET: 1 of 1
TITLE: ADVANCED PHOTON SOURCE A4-84 HEAVY LOAD PNEUMATIC LINEAR ACTUATOR 100mm - 8" SHOULDER SCREW MODIFIED			SIZE: B	DRAWING NUMBER: A4-840205-00