



- NOTES:
1. MAKE FROM TRD AIR CYLINDER #TA-MF1 & MF2D-1 1/2 X 1.221-HC-VS
 2. NO GREASE OR TEFLON COATING IS ALLOWED TO BE USED AS A LUBRICANT
 3. ROD SURFACES SHALL BE POLISHED AND CHROME PLATED.
 4. NO ELASTOMER MATERIAL SHALL BE USED AS SEAL OR WIPE EXCEPT VITON GRADED FOR AT LEAST 200°C
 5. LUBRICATE ALL OF THE VITON SEAL WITH DOW CORNING #710 ACTUATION AND WIPE OUT ANY EXCESS OIL. DOW CORNING #710 IS NOT DESIRABLE IN THE VACUUM. CARE MUST BE EXERCISED TO AVOID CONTAMINATION OF THE VACUUM CHAMBER DURING ASSEMBLY, TEST AND SHIPMENT.
 6. DIMENSIONS IN [] ARE MILLIMETERS AND FOR REF. ONLY

REF. SOURCE

TRD MFG., INC.
 7407 EDWARD DRIVE
 ROCKFORD, IL. 61111
 TEL: 1-815-654-7775
 FAX: 1-815-654-7783

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE

REVISIONS

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY								
<p>UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES</p> <table border="1"> <tr> <td>DECIMALS</td> <td>ANGULAR</td> </tr> <tr> <td>.X - .1 [2.5]</td> <td>- 0°30'</td> </tr> <tr> <td>.XX - .01 [0.25]</td> <td></td> </tr> <tr> <td>.XXX - .005 [0.13]</td> <td></td> </tr> </table> <p>SURFACE ROUGHNESS 125 ✓</p> <p>REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX.</p> <p>SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1</p> <p>DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5</p>					DECIMALS	ANGULAR	.X - .1 [2.5]	- 0°30'	.XX - .01 [0.25]		.XXX - .005 [0.13]	
DECIMALS	ANGULAR											
.X - .1 [2.5]	- 0°30'											
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LOG NUMBER A3880004-00		<p>THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY</p>										
DRAWN BY MUSCIA	DATE 5/1/97	CHIEF DESIGN ENGINEER D. Shu	DATE 6/6/97	TITLE ADVANCED PHOTON SOURCE A3-88 LIGHT LOAD PNEUMATIC 31mm - 6" LINEAR ACTUATOR AIR CYLINDER								
CHECKED BY J. CHANG	DATE 5/20/97	GP LEADER T.M. Kuzay	DATE 6/9/97									
DESIGNER CHANG/MUSCIA	DATE 5/1/97	PROJECT MGR.	DATE									
RESPONSIBLE ENGINEER J. CHANG	DATE 5/20/97	APPROVED/RELEASED	DATE									
MATERIAL SEE NOTE #1		SCALE 1:1										
		SIZE C		DRAWING NUMBER A3-880004-00								
		SHEET 1 of 1										

DO NOT SCALE DRAWING