

1. MIL-W-13855 AND USASI Y14.5-1966 APPLY.

2. MATERIAL:
A. FOR WROUGHT MATERIAL:
AL ALY, 7075, TEMPER T6, SPEC QQ-A-225/9.
B. FOR EXTRUSION:
AL ALY, 7075, TEMPER T6, QQ-A-200/11.
C. FOR FORGED MATERIAL:
AL ALY, 7075, TEMPER T6, SPEC QQ-A-367.

3. FINAL PROTECTIVE FINISH:
ANODIC COATING, TYPE III, CLASS 2,
.0025±.0005 THICK, MIL-A-A8625. SEALED 10±0.5
MINUTES AT 180°F ±5°F IN 1.15-1.35% AQUEOUS SOLUTION
CONTAINING NICKEL ACETATE AND THEN 2±0.5 MINUTES
AT 180°F ±5°F IN 4.0-4.2% AQUEOUS SOLUTION OF SODIUM
DICHROMATE. ALTERNATE SEALING PROCEDURE: 2±0.5
MINUTES IN 200°F ±5°F IN 0.5%±0.1% AQUEOUS SOLUTION
CONTAINING NICKEL ACETATE AND THEN 10±0.5 MINUTES
IN 180°F ±5°F IN 5% ±0.2% AQUEOUS SOLUTION OF DICHRMATE.
COLOR TO BE LUSTERLESS (FLAT) BLACK, NO. 37038,
BUT NOT LIGHTER THAN GRAY, NO. 36081 OF FED-STD-595.

4. SURFACE FINISH SHALL BE 125/ ALL OVER UNLESS OTHERWISE SPECIFIED.

5. EACH BARREL SHALL BE PENETRANT INSPECTED FOR CRACKS, SEAMS AND OTHER INJURIOUS DEFECTS AFTER RIFLING BUT BEFORE FINAL PROTECTIVE FINISH PER MIL-STD-6866. PARTS WHICH SATISFACTORILY PASS INSPECTION SHALL BE MARKED BY INSCRIBING THE SYMBOL "D" AS INDICATED.

6. RIFLING: 6 GROOVES, UNIFORM TWIST, RIGHT HAND, 1 TURN IN 48 INCHES ± 1 INCH.

7. EACH BARREL SHALL BE PROOF TESTED AFTER FINAL PROTECTIVE FINISH BY FIRING ONE STANDARD CARTRIDGE. THERE SHALL BE NO VISIBLE EVIDENCE OF FAILURE. PARTS WHICH SATISFACTORILY MEET THIS REQUIREMENT SHALL BE MARKED BY INSCRIBING SYMBOL "P" AS INDICATED.

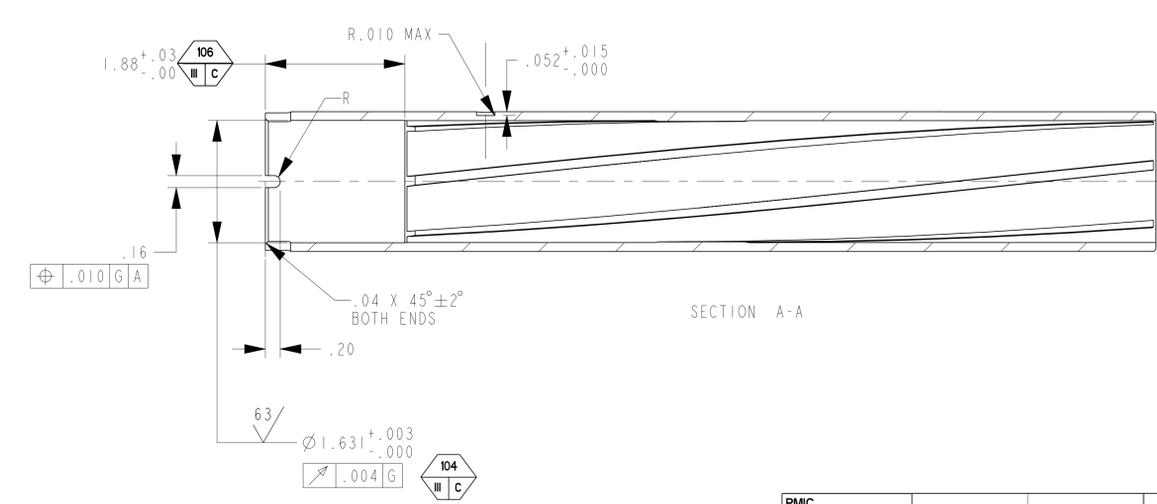
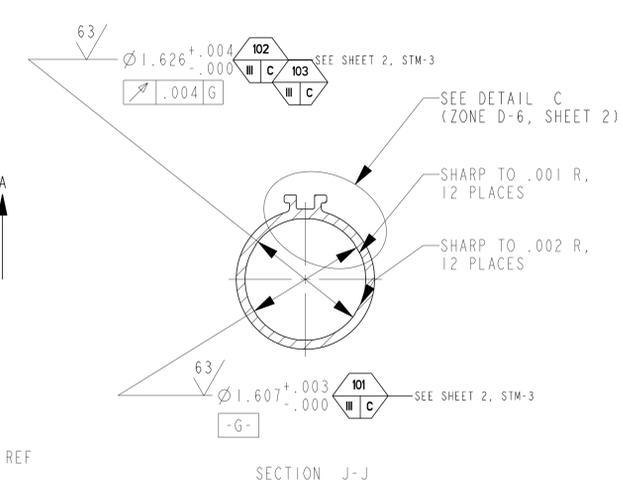
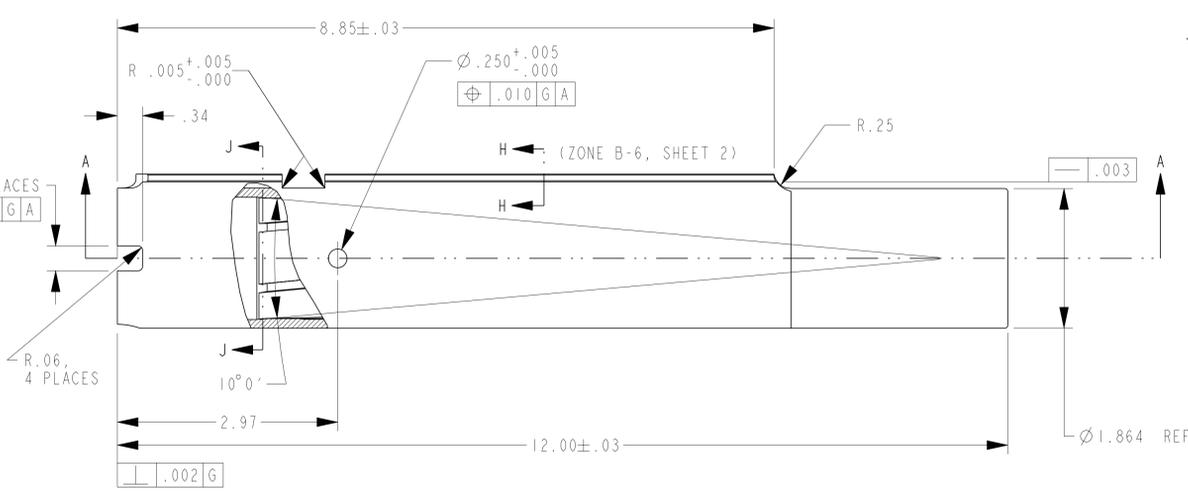
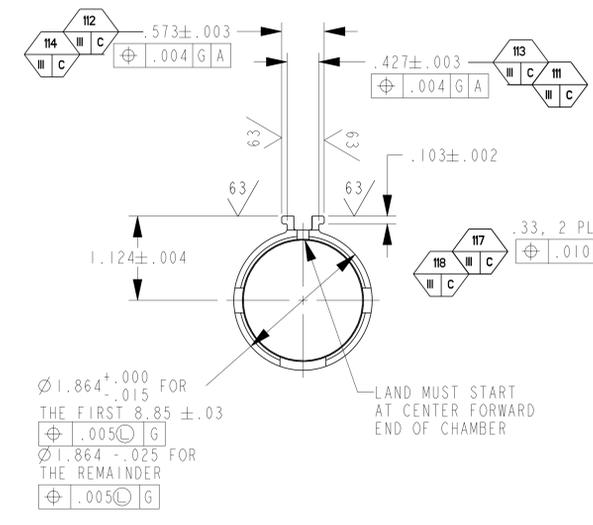
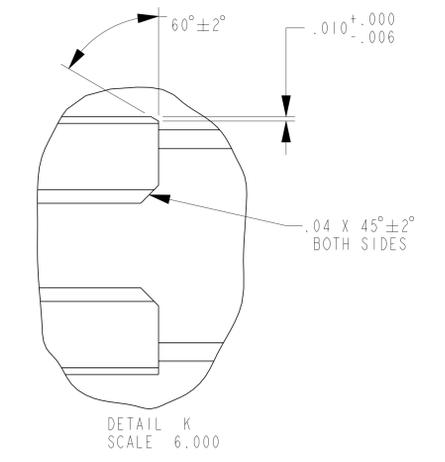
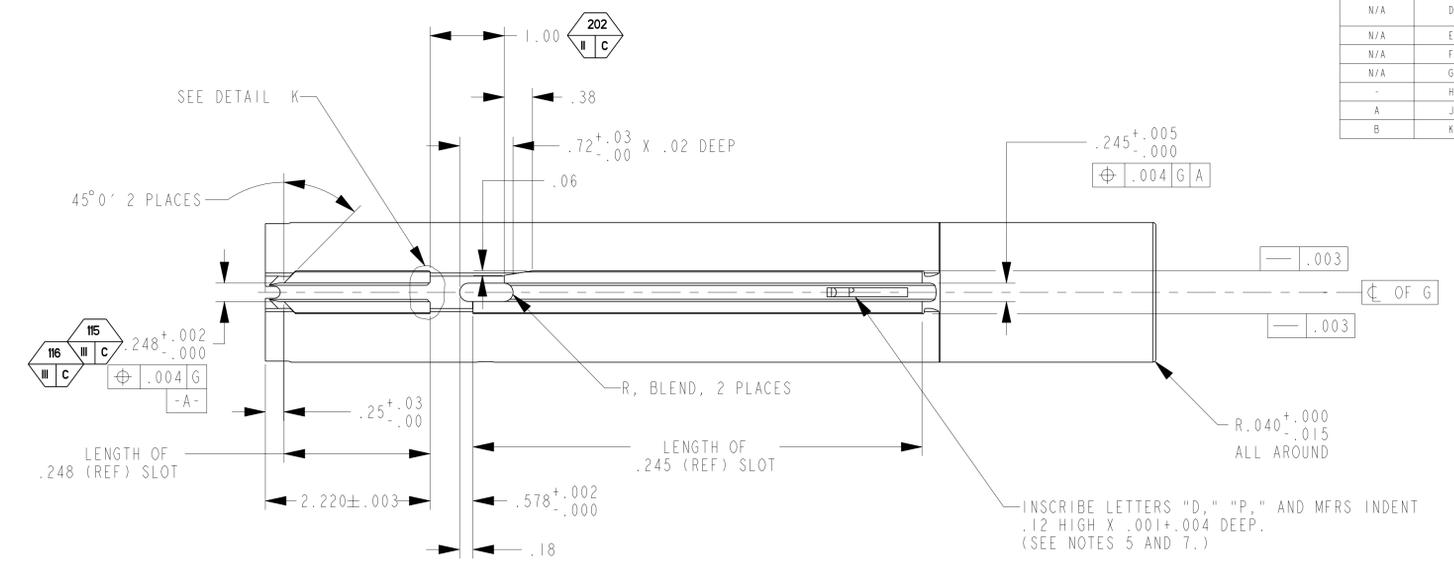
8. ALL EDGES SHALL BE BROKEN .005±.010 UNLESS OTHERWISE SPECIFIED.

9. QUALITY ASSURANCE PROVISION REQUIREMENTS PER DRAWING 12993884 APPLY.

- 108 III C PENETRANT INSPECTION, SEE SHEET 2, STM-1.
- 107 III C PROOF FIRING, SEE SHEET 2, STM-2.
- 109 III V PROOF MARKING INCORRECT, ILLEGIBLE OR MISSING.
- 203 II C AA63 FINISH IMPROPER.
- 204 II V DEFECTIVE PROTECTIVE COATING.
- 110 III V PENETRANT MARKING INCORRECT, ILLEGIBLE OR MISSING.
- 105 III C UNIFORM RIFLE TWIST.
- 205 II V WORKMANSHIP.

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MODEL REV		DRAWING REV		REVISIONS	
DESCRIPTION	DATE (YEAR-MO-DA)	APPROVED			
N/A	C	NOR 663046 / 1996-06-19 IECP 663114 / 1996-07-11 IECP 663120 / 1996-07-31	1996-09-17	JB	
N/A	D	NOR L753036 / 1997-07-25 IECP L753037 / 1997-07-25	1997-08-19	JB	
N/A	E	NOR L953013 / 1999-06-14	1999-09-16	HJS	
N/A	F	NOR L953012 / 1999-07-13	1999-09-20	HJS	
N/A	G	NOR L053040 / 2000-10-31	2000-11-27	HJS	
-	H	NOR L253039 / 2002-08-28	2002-10-17	RSB	
A	J	NOR L253074 / 2003-01-06	2003-03-04	RJC	
B	K	NOR L353087 / 2003-03-07	2003-04-01	RJC	



THIS DRAWING WAS GENERATED FROM A SOLID MODEL AND IS CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

REV STATUS OF SHEETS	REV	K	K
	SHEET	1	2

PART NO. 12012006

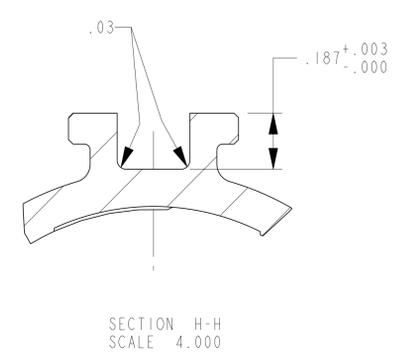
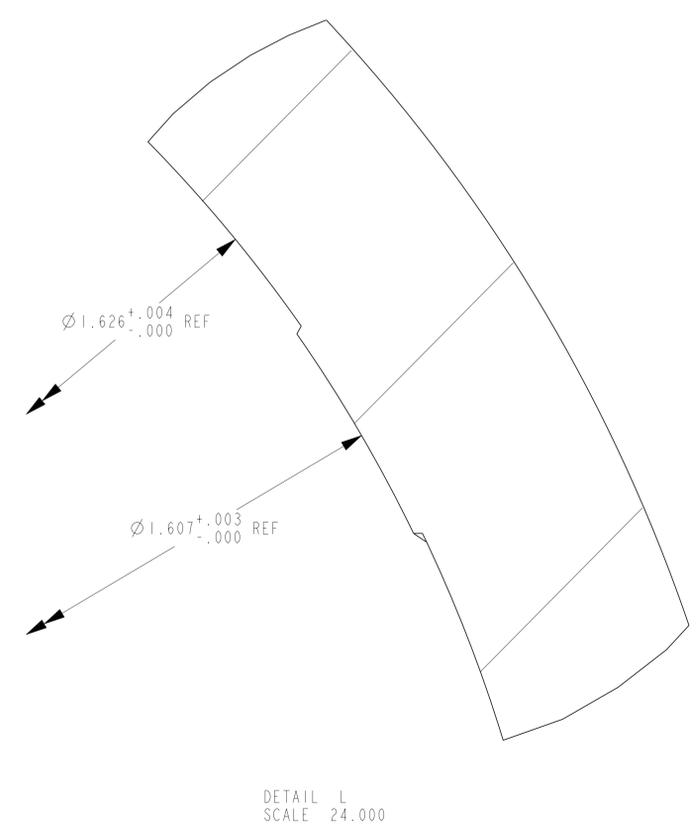
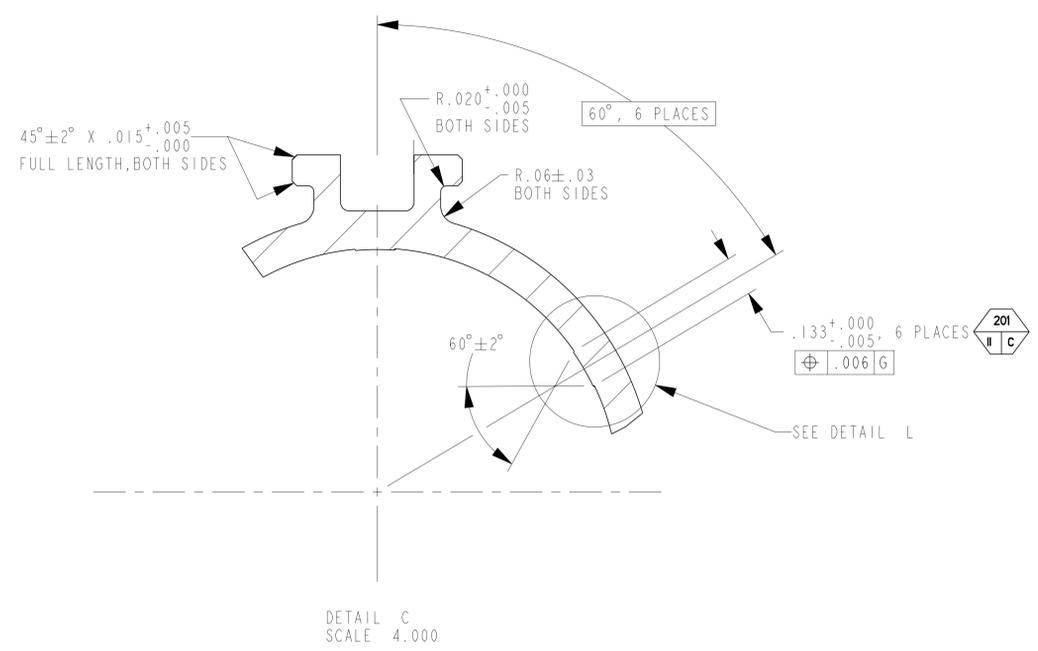
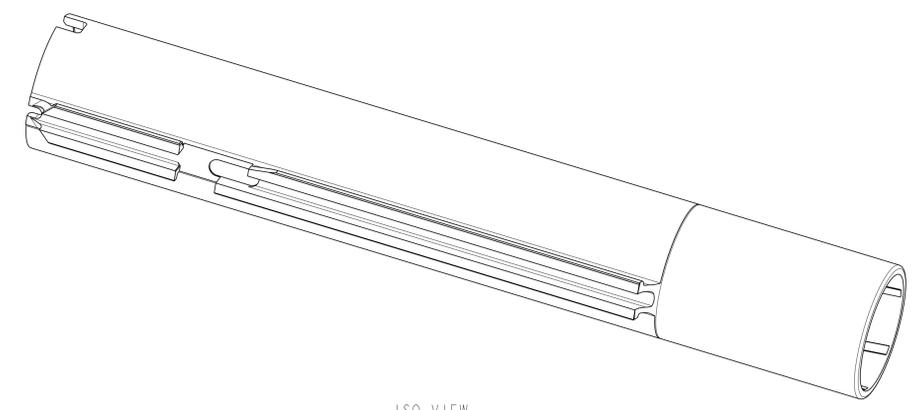
PMIC		DO NOT SCALE DRAWING	CONTRACT NUMBER	DESIGN ACTIVITY
MECHANICAL PROPERTIES	LAUNCHER	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
YP	GRENADO	TOLERANCES ON ANGLES ± 5° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	DRAWN BY B. NICEWANNER	DATE (YEAR-MO-DA) 1993-03-11
TS	40MM	THIRD ANGLE PROJECTION	CHECKER J. KREIDER	ENGINEER J. WINDHAM
EL2	M203A1		ENGINEER L. KO	QUALITY ENGINEER N. PINEDA
RA	F12012005		DRAWING APPROVAL L. BRUNTON	2002-08-28
BH	M203		DESIGN APPROVAL R. ELBE	2002-08-28
RH	APPLICATION	MATL ENGR	MODELED BY B. NICEWANNER	
				SIZE F
				CAGE CODE 19200
				DWG NO. 12012006
				SCALE 1/1
				UNIT WT. 0.809
				SHEET 1 OF 2

REVISIONS				
MODEL REV	DRAWING REV	DESCRIPTION	DATE (YEAR-MO-DA)	APPROVED
-	H	NOR L253039 / 2002-08-28	2002-10-17	RSB
A	J	NOR L253074 / 2002-12-10	2003-03-04	RJC
B	K	NOR L353087 / 2003-03-07	2003-04-01	RJC

STM-1. THE GOVERNMENT REPRESENTATIVE SHALL CONDUCT SURVEILLANCE OF THE PENETRANT INSPECTION AND MARKING OF EACH ACCEPTABLE BARREL AFTER RIFLING BUT BEFORE FINAL PROTECTIVE FINISH BY A PROPERLY CERTIFIED OPERATOR IN ACCORDANCE WITH SPECIFICATION ASTM-E1417 AND DRAWING 12012006.

STM-2. THE GOVERNMENT REPRESENTATIVE SHALL CONDUCT SURVEILLANCE OF THE CONTRACTOR'S PROOF FIRING OF EACH BARREL, USING PROOF FIRING TEST FIXTURE IN ACCORDANCE WITH DRAWING F11838036 WITH 1 STANDARD ROUND OF TEST AMMUNITION AND THE CONTRACTOR'S PROOF MARKING OF EACH ACCEPTABLE BARREL IN ACCORDANCE WITH DRAWING 12012006.

STM-3. REFERENCE INSPECTION POSITION A, MAJOR CHARACTERISTICS 101 AND 102. DUE TO MEASUREMENT UNCERTAINTIES AND NON-REPEATABILITY, ACTUAL AIR GAGE READINGS WHICH ARE WITHIN .0002 OF DRAWING REQUIREMENTS ARE ACCEPTABLE. MAKE ONE PASS EACH THROUGH THE BARREL BORE AND THE BARREL RIFLING. PROVIDED EACH PASS IS AT LEAST .0004 WITHIN THE DRAWING TOLERANCE LIMITS, NO FURTHER CHECK IS NECESSARY; OTHERWISE, MAKE AN ADDITIONAL TWO PASSES EACH THROUGH BOTH THE BARREL BORE AND BARREL RIFLING, REVOLVING THE AIR SPINDLE TO THE NEXT ADJACENT LAND AFTER EACH PASS.



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PART NO. 12012006

PMIC		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NUMBER	DESIGN ACTIVITY	
MECHANICAL PROPERTIES	LAUNCHER	TOLERANCES ON ANGLES ± 5° 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005	CONTRACTOR	US ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000	
YP	GRENADE	THIRD ANGLE PROJECTION	DRAWN BY	BARREL	
TS	40MM		B. NICEWANNER 1993-03-11		
EL2	M203A1		CHECKER		
RA	M203	J. KREIDER	J. WINDHAM		
BH	F12012005	ENGINEER	L. KO	QUALITY ENGINEER	
RH	NEXT ASSY USED ON	MATL ENGR	L. BRUNTON 2002-08-28	N. PINEDA	
	APPLICATION	MODELED BY	DRAWING APPROVAL	DESIGN APPROVAL	
		B. NICEWANNER	R. ELBE 2002-08-28		
			SIZE	CAGE CODE	DWG NO.
			F	19200	12012006
			SCALE	UNIT WT.	SHEET
			1/1	0.809	2 OF 2

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