



SECTION A-A

NOTES:

1. MATERIAL: AISI 4140 QUENCH AND TEMPER 269/321 BHN STEEL BAR OR TUBE
2. IDENTIFY WITH PART NUMBER, SUPPLIER CODE AND NUMBER, MANUFACTURERS LOT NUMBER, AND REVISION LEVEL
3. AFTER FINAL GRINDING WIDTH TO SIZE, SURFACE CRACK TESTING MUST BE COMPLETED BY MAGNETIC PARTICLE TESTING OR DYE PENETRANT TEST ON GROUND SURFACES PER ISO 6336-5. NO CRACKS ALLOWED (ALT: AGMA 2001-D04 GR. 3 - NO CRACKS ALLOWED)
4. UNLESS SPECIFIED, FILLETS R3 AND CHAMFERS 1 x 45 °

MAKE FROM MODEL: 1509-GS-023-A

REV	CHANGED FROM	BY	DATE	APRD
A	PRE-RELEASE. REVIEWED PER 1509-ENC-004	JFC	10/25/12	
B	CHANGES PER REQUEST 1509-DDS-018-A & NREL DRW REVIEW	CPS	3/5/13	
C	CHANGES PER REQUEST 1509-DDS-018-A03	CPS	3/25/13	
D	CHANGES PER CUSTOMER REVIEW. RELEASE FOR PRODUCTION	CPS	4/18/13	

REPORT ERRORS & CHANGES  
REMOVE ALL BURRS AND SHARP EDGES  
DIMENSIONS ARE IN MILLIMETERS.  
UNSPECIFIED TOLERANCES:  
DECIMALS: FINISH: ANGLES:

6.3  $\sqrt{\mu\text{m Ra}}$   $\leq \pm 0.5^\circ$

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OTHER DRAWINGS OR MACHINERY

DRAWN JFC DATE: 10/25/12  
CHECKED NJB THIRD ANGLE PRI

**National Renewable Energy Laboratory**

TITLE: BEARING SPACER, INNER HSS

SIZE **B** DWG. NO. 254556 REV **D**

SCALE: 1:1 WEIGHT: 0.54 kgs SHEET 1 OF 1