



NOTES:

- MATERIAL: AISI 4140 QUENCH AND TEMPER 269/321 STEEL BAR OR TUBE
- IDENTIFY WITH PART NUMBER, REV LEVEL, SUPPLIER INITIALS, JOB NUMBER, AND SHOP ORDER NUMBER

REV	CHANGED FROM	BY	DATE	APRD
A	PRE-RELEASE	JFC	8/30/12	
B	REVIEWED & UPDATED PER 1509-ENC-004 IF REQUIRED	CPS	1/18/13	
C	UPDATE BORDER. REVIEW PER GENERAL NREL DRW REVIEW. ADD O-RING GROOVE	CPS	3/15/13	
D	RELEASE FOR PRODUCTION	CPS	4/18/13	
E	REPAIR DANGLING DIMENSION LEADER	JMG	10/18/13	
F	CHANGES PER MANUFACTURER REVIEW AND INSTRUMENTATION	CPG	1/30/14	

REPORT ERRORS & CHANGES REMOVE ALL BURRS AND SHARP EDGES DIMENSIONS ARE IN MILLIMETERS. UNSPECIFIED TOLERANCES:
 DECIMALS: FINISH: ANGLES:
 X. ±1.0 6.3 / μm Ra < ±0.5°
 .X ±0.5
 .XX ±0.25
 COPYRIGHT ©
 NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY
 DRAWN JFC DATE: 8/30/12
 CHECKED NJB THIRD ANGLE PRJ

National Renewable Energy Laboratory

TITLE: RING ADAPTOR, IM SHAFT

SIZE **B** DWG. NO. 254511 REV **F**

SCALE: 1:4 WEIGHT: 15.15 kgs SHEET 1 OF 1