



MAKE FROM MODEL: 1509-HG-001-B

NOTES:

1. MATERIAL: STEEL BAR OR FORGING GRADE AISI 4140, QUENCHED AND TEMPERED 269-321 BHN
2. IDENTIFY WITH PART NUMBER, REV LVLN, SUPPLIER INITIALS, JOB NUMBER, AND SHOP ORDER NUMBER

REV	CHANGED FROM	BY	DATE	APRD
B	REVIEWED & UPDATED PER 1509-ENC-004 IF REQUIRED	CPS	1/18/13	
C	CHANGES REQUESTED PER NREL DRW REVIEW	CPS	3/14/13	
D	BORE TO J6 FIT. RELEASE FOR PRODUCTION	CPS	4/18/13	
E	REPAIR DANGLING DIMENSIONS	JMG	10/17/13	
F	CHANGES PER MANUFACTURER REVIEW AND INSTRUMENTATION	CPG	1/30/14	
G	CHANGES PER MFG REVIEW	CPG	1/15/16	

REPORT ERRORS & CHANGES REMOVE ALL BURRS AND SHARP EDGES DIMENSIONS ARE IN MILLIMETERS. UNSPECIFIED TOLERANCES:		
DECIMALS:	FINISH:	ANGLES:
X. ±1.0 .X ±0.5 .XX ±0.25	6.3 $\mu\text{m Ra}$	$\leq \pm 0.5^\circ$
NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY		
DRAWN	JFC	DATE: 8/15/12
CHECKED	NJB	THIRD ANGLE PRJ

<b>National Renewable Energy Laboratory</b>		
TITLE: RING SPACER, TRB LS SHAFT		
SIZE	DWG. NO.	REV
<b>B</b>	254493	<b>G</b>
SCALE: 1:4	WEIGHT: 23.52 kgs	SHEET 1 OF 1