

# CATALOG CODE RT-070-XX-XX

TORQUE IN-LBS
03
04
05
06
07
08

SHAFT END TYPE
1- FLAG
2- STRAIGHT
3- <b>KNURLED SHAFT END*</b>

\*Effective June 1, 2022 there will be a minor specification change that affects the mounting geometry of the RT-070-XX-03. Contact Reell at [info@reell.com](mailto:info@reell.com) for additional information about this change.


DYNAMIC TORQUE	
NOMINAL TORQUE (IN-LBS)	TOLERANCE
03	±20%
04	±20%
05	±20%
06	±20%
07	±20%
08	±20%

PRODUCT TORQUE SPECIFICATION AT +20°C.

SPECIFICATION SUBJECT TO CHANGE

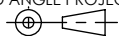
## NOTES:

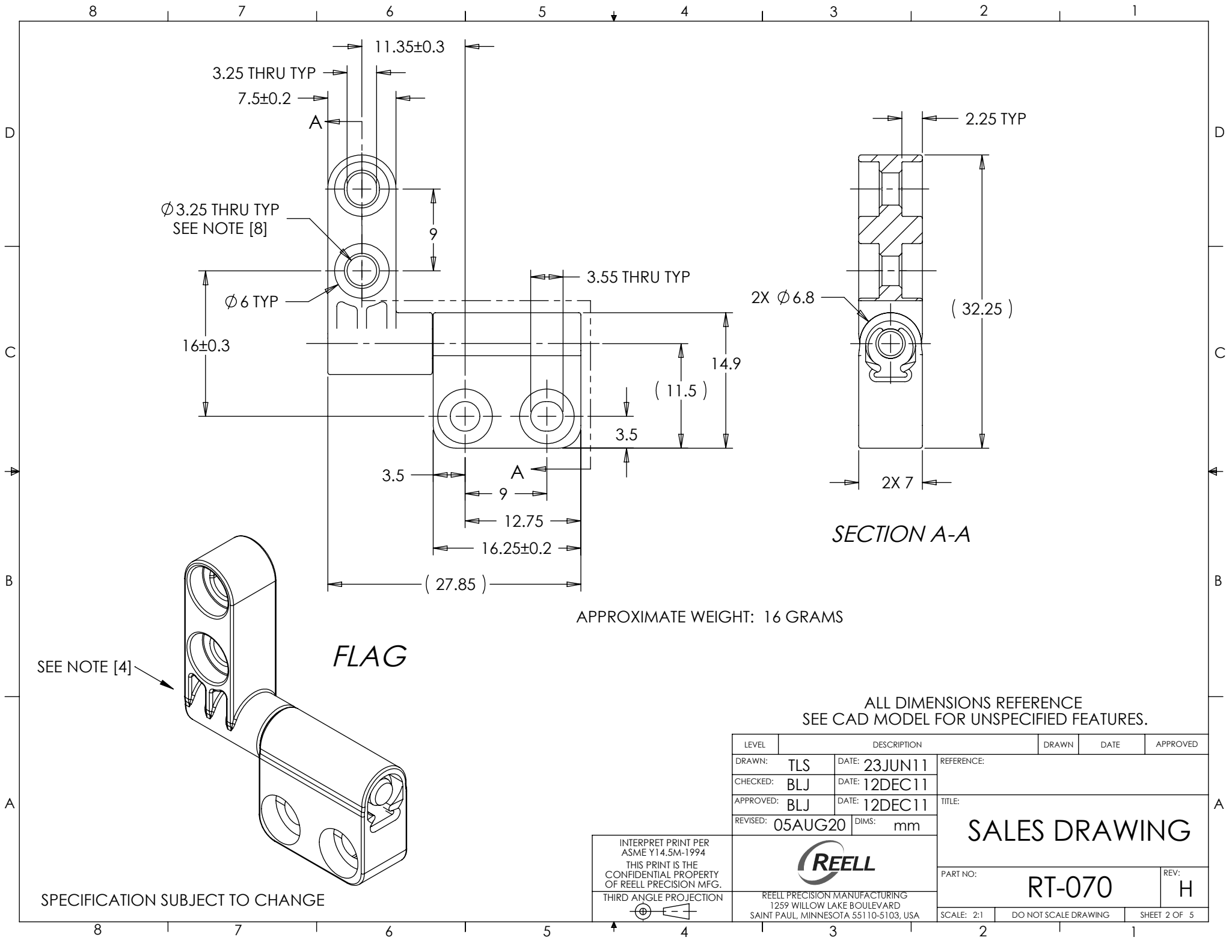
1. USER MUST DETERMINE FITNESS FOR USE IN APPLICATION.
2. ENVIRONMENTAL CONDITIONS: -20° TO +80°C. UP TO 10% OF LIFE CYCLES AT HOT AND COLD CONDITIONS.
3. LIFE: 50,000 CYCLES. ONE CYCLE CONSISTS OF 90° CW AND 90° CCW AT 10% DUTY CYCLE FOR SPEEDS LESS THAN 100RPM.
- [4] HINGE DESIGNED TO SUPPORT A MINIMAL AXIAL FORCE IN DIRECTION SHOWN, NOT DESIGNED TO SUPPORT AXIAL FORCE IN THE OPPOSITE DIRECTION.
5. MATERIALS:  
ZINC DIE CAST HOUSINGS & FLAG SHAFT ENDS  
STEEL STRAIGHT SHAFT ENDS  
HARDENED STEEL SHAFT  
HARDENED STEEL TORQUE CLIPS  
MINERAL OIL BASED LUBRICANT
6. FINISH:  
NON-COSMETIC PLAIN.  
CLEAR CHROMATE RUST PREVENTATIVE COATING ON THE STRAIGHT SHAFT.
7. SHIP ANGLE 0° ±5° BETWEEN HOUSINGS.
- [8] DESIGNED TO ACCEPT M3, #4 OR #5 SCREW OR EQUIVALENT. USE LOW HEAD VERSION IF HEAD MUST BE SUBFLUSH.

LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE:	23JUN11	REFERENCE:
CHECKED:	BLJ	DATE:	12DEC11	TITLE: <b>SALES DRAWING</b>
APPROVED:	BLJ	DATE:	12DEC11	
REVISED:	05AUG20	DIMS:	mm	
 REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		PART NO:		REV:
		RT-070		H
SCALE: 1:2		DO NOT SCALE DRAWING		SHEET 1 OF 5

INTERPRET PRINT PER ASME Y14.5M-1994  
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THIRD ANGLE PROJECTION



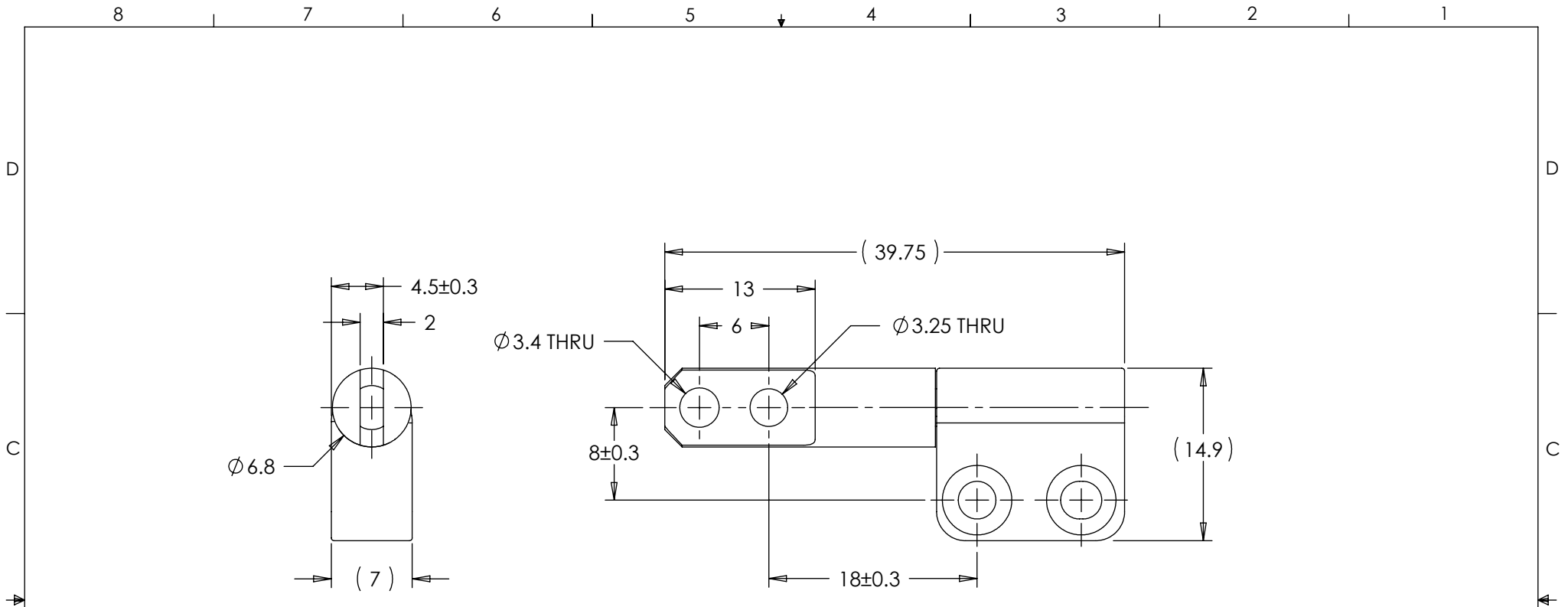


SPECIFICATION SUBJECT TO CHANGE

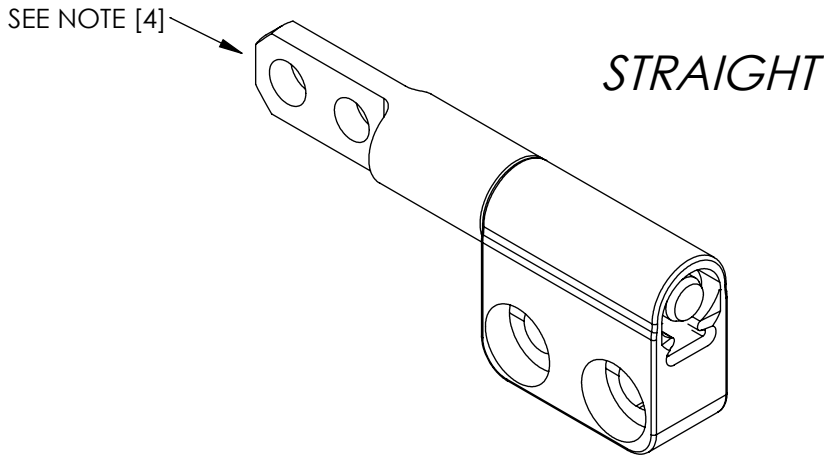
ALL DIMENSIONS REFERENCE  
SEE CAD MODEL FOR UNSPECIFIED FEATURES.

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DRAWN:	TLS	DATE:	23JUN11	REFERENCE:
CHECKED:	BLJ	DATE:	12DEC11	TITLE:
APPROVED:	BLJ	DATE:	12DEC11	
REVISED:	05AUG20	DIMS:	mm	
		SALES DRAWING		
		PART NO:	RT-070	REV:
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		SCALE: 2:1	DO NOT SCALE DRAWING	SHEET 2 OF 5

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THIRD ANGLE PROJECTION



APPROXIMATE WEIGHT: 12 GRAMS



ALL DIMENSIONS REFERENCE  
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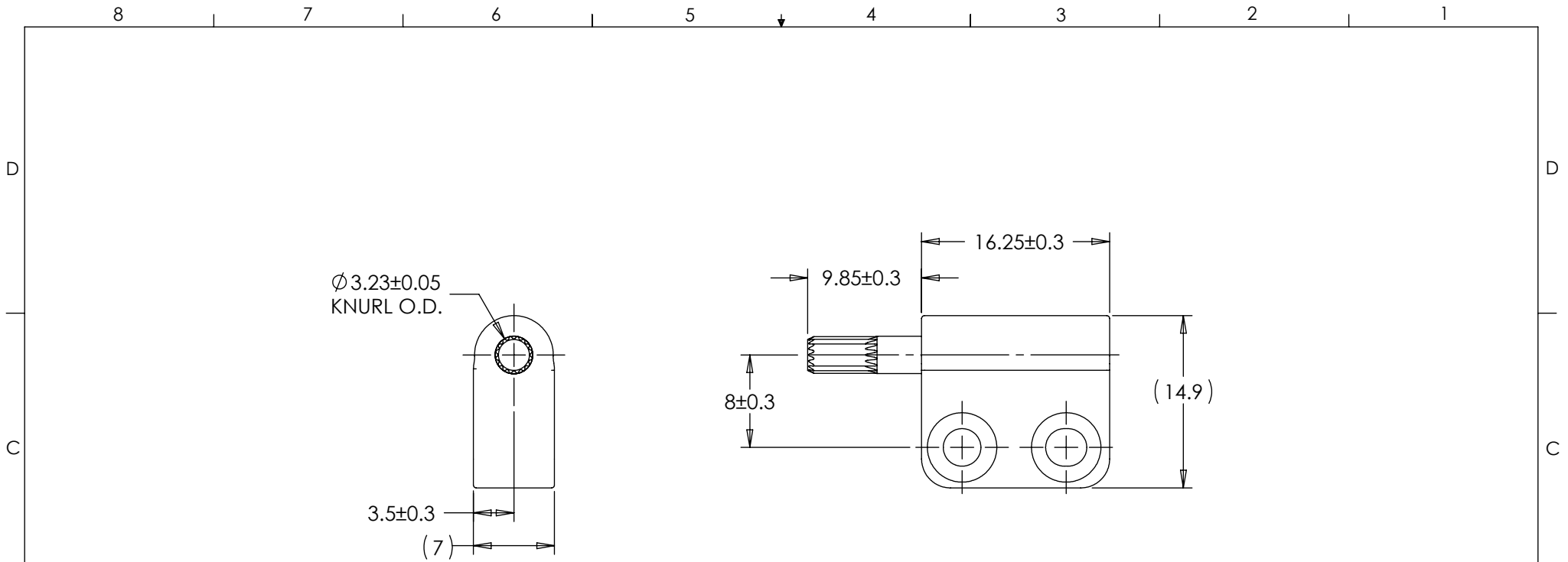
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CHECKED:	BLJ	DATE: 12DEC11	TITLE:		
APPROVED:	BLJ	DATE: 12DEC11	SALES DRAWING		
REVISED:	05AUG20	DIMS: mm			
			PART NO:		REV:
			RT-070		H
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA			SCALE: 2:1	DO NOT SCALE DRAWING	SHEET 3 OF 5

SEE SINGLE FLAG ASSEMBLY DRAWING  
FOR UNSPECIFIED BRACKET DIMENSIONS

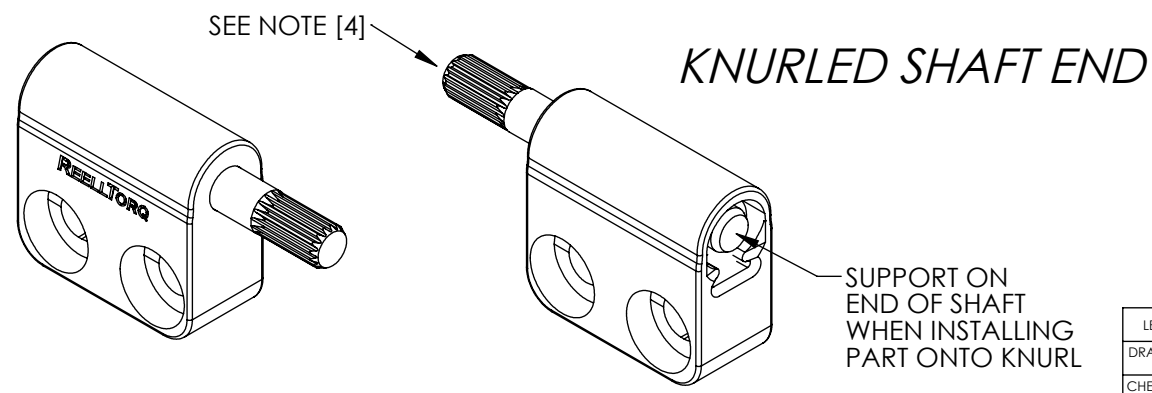
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THIRD ANGLE PROJECTION



APPROXIMATE WEIGHT: 9 GRAMS



ALL DIMENSIONS REFERENCE  
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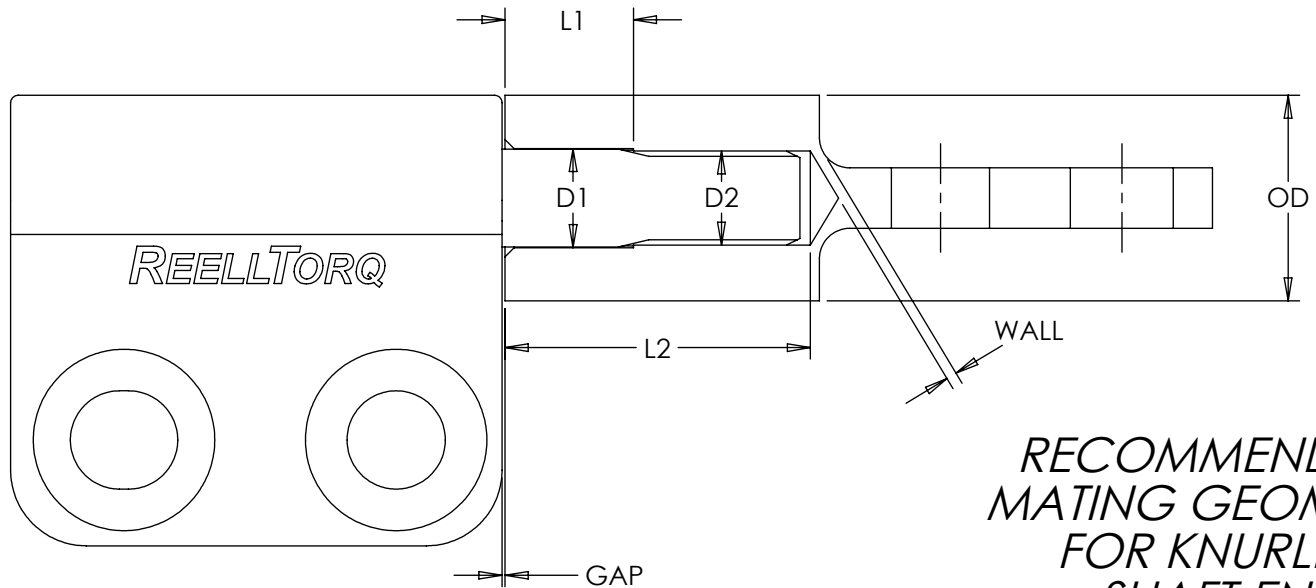
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APPROVED:	BLJ	DATE: 12DEC11	SALES DRAWING		
REVISED:	05AUG20	DIMS: mm			
			PART NO: RT-070		REV: H
			SCALE: 2:1		DO NOT SCALE DRAWING

SEE SINGLE FLAG ASSEMBLY DRAWING  
FOR UNSPECIFIED BRACKET DIMENSIONS  
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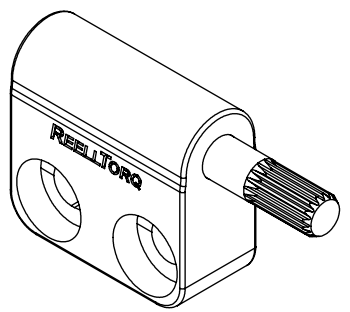
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REELL PRECISION MANUFACTURING  
 1259 WILLOW LAKE BOULEVARD  
 SAINT PAUL, MINNESOTA 55110-5103, USA

MATERIAL	D1	D2	L1	L2	OD	WALL	GAP
DIE CAST ZINC	3.18±0.03	3.03±0.03	4.25±0.15	10.1 MIN	6 MIN	1 MIN	0.1 NOMINAL
DIE CAST ALUMINUM							
MILD STEEL	3.28±0.05	3.115±0.015					
WROUGHT ALUMINUM							



**RECOMMENDED  
MATING GEOMETRY  
FOR KNURLED  
SHAFT END**



SCALE 4 : 1

SPECIFICATION SUBJECT TO CHANGE

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		REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		REV: H	
SCALE: 2:1		DO NOT SCALE DRAWING		SHEET 5 OF 5	