

# CATALOG CODE TI-150-X.X-X-XX

TORQUE N-m
2.0
3.0
4.0

DIRECTION
F - ONE WAY FORWARD
R - ONE WAY REVERSE

FIN NO.
01

## NOTES:

1. APPLICATION CONDITIONS REFERENCE USER MUST DETERMINE FITNESS FOR USE IN APPLICATION.
2. LIFE: 25,000 CYCLES.  
ONE CYCLE = 120° OPEN/ 120° CLOSED  
FIVE(5) CYCLES PER MINUTE MAX.
3. MATERIAL:  
BRACKET AND SHAFT END ARE ENGINEERED PLASTIC  
SHAFT AND TORQUE ELEMENT ARE HARDENED STEEL  
MINERAL OIL BASED LUBRICANT
4. TAB MAY BE MISALIGNED DUE TO SHIPPING. MISALIGNMENT IS EASILY FIXED BY ROTATING THE BRACKET IN THE TORQUE FREE DIRECTION.
5. STATIC TORQUE IS NORMALLY WITHIN 10% OF DYNAMIC TORQUE.



REELL PRECISION MANUFACTURING  
1259 WILLOW LAKE BOULEVARD  
SAINT PAUL, MINNESOTA 55110-5103, USA

THIS PRINT IS THE CONFIDENTIAL PROPERTY  
OF REELL PRECISION MFG.

INTERPRET PRINT PER ASME Y14.5M-2009

ECO NO: 02772

APPROVED BY: MICHAEL BEALE

APPROVED DATE: 13JUL20

PROJECT NO: 101269

ENGINEER: MICHAEL BEALE

DRAWN BY: MICHAEL BEALE

THIRD ANGLE PROJECTION



DIMENSIONS: mm

PART LIFECYCLE: RELEASED

DEVELOPMENT CYCLE: PRODUCTION

DESCRIPTION:

## SALES DRAWING

PART NO: TI-150

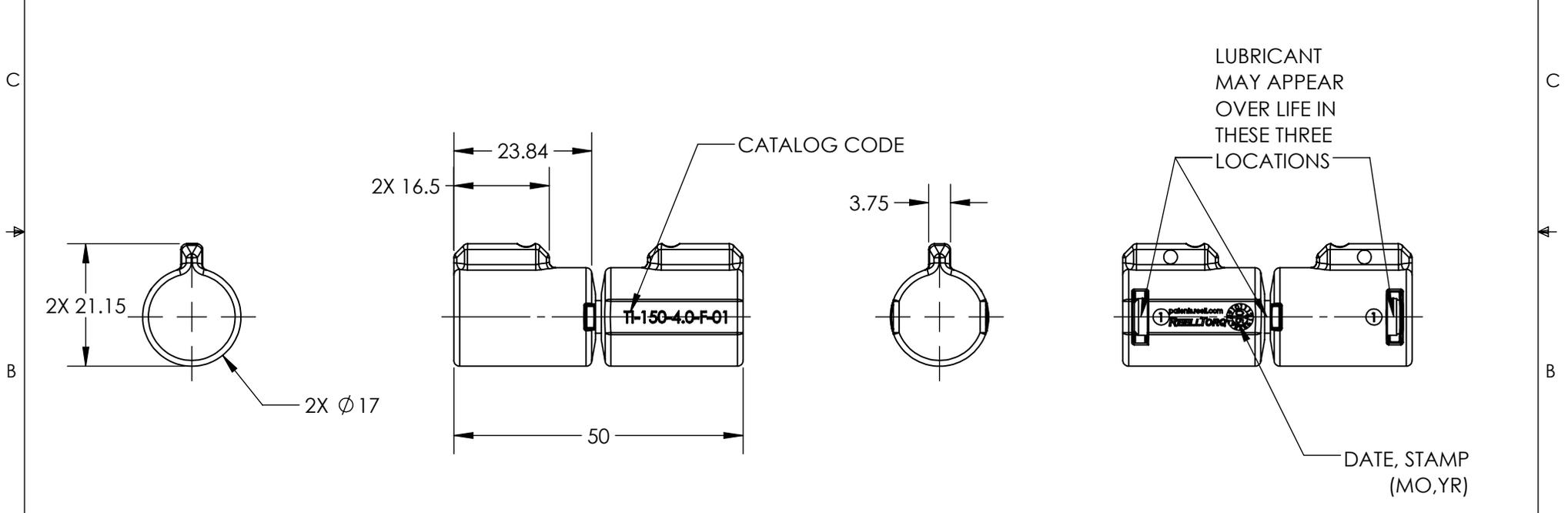
REV: A

SCALE: 2:1 DO NOT SCALE DRAWING

SHEET 1 OF 4

SPECIFICATION SUBJECT TO CHANGE

CATALOG CODE	DYNAMIC TORQUE FORWARD DIRECTION	DYNAMIC TORQUE REVERSE DIRECTION
	NOMINAL	NOMINAL
	Nm	Nm
TI-150-2.0-F-01	2.0±0.6	1MAX
TI-150-3.0-F-01	3.0±0.9	1MAX
TI-150-4.0-F-01	4.0±1.2	1MAX
TI-150-2.0-R-01	1MAX	2.0±0.6
TI-150-3.0-R-01	1MAX	3.0±0.9
TI-150-4.0-R-01	1MAX	4.0±1.2



ALL DIMENSIONS REFERENCE  
SEE CAD MODEL FOR UNSPECIFIED FEATURES.

SPECIFICATIONS SUBJECT TO CHANGE

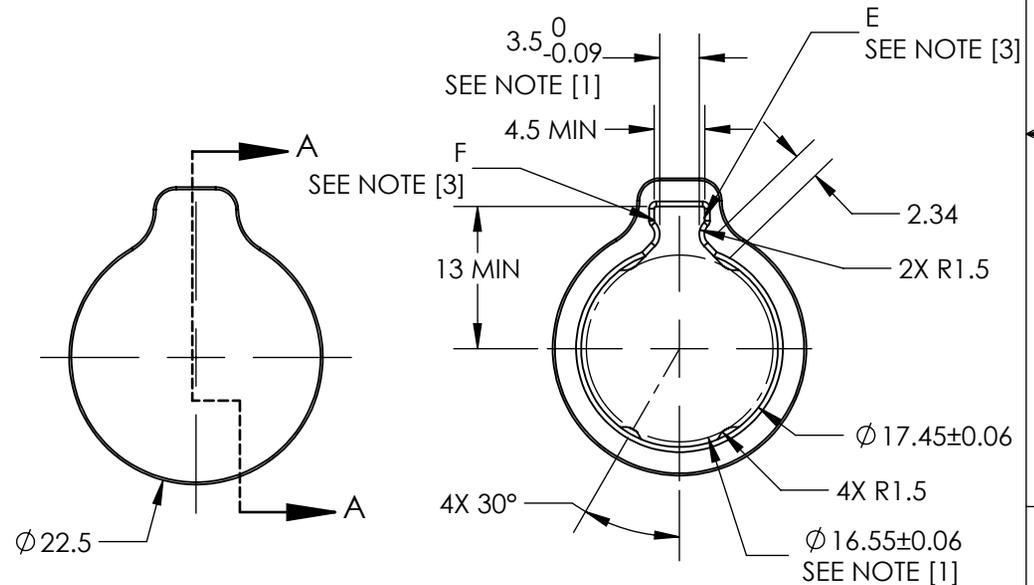
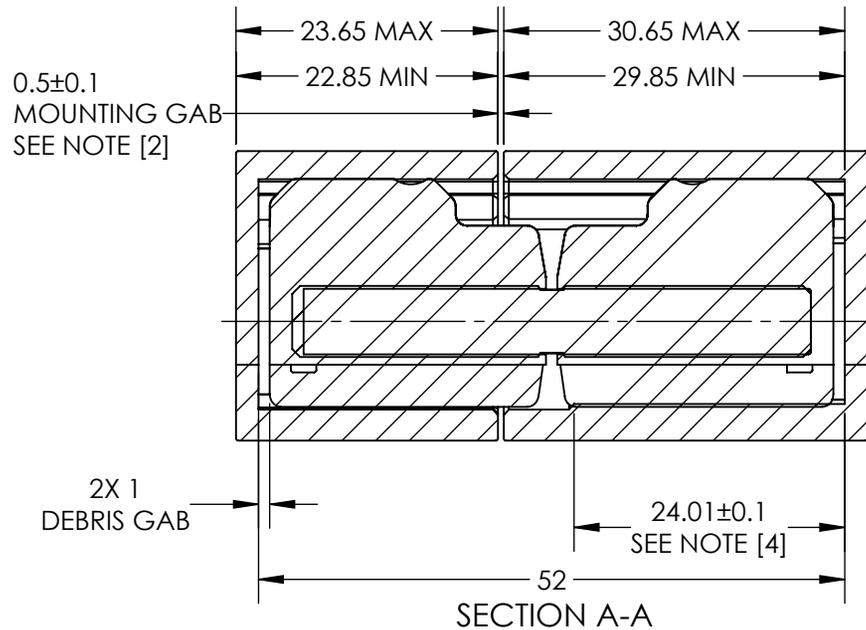
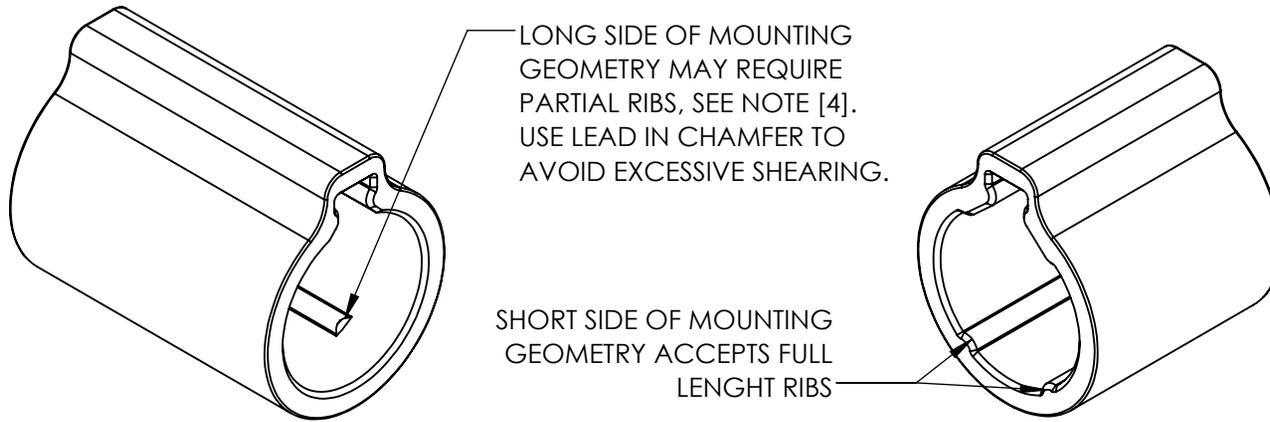
	ECO NO: 02772	PART LIFECYCLE: RELEASED	
	APPROVED BY: MICHAEL BEALE	DEVELOPMENT CYCLE: PRODUCTION	
	APPROVED DATE: 13JUL20	DESCRIPTION:	
	PROJECT NO: 101269	<h1>SALES DRAWING</h1>	
ENGINEER: MICHAEL BEALE			
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA	DRAWN BY: MICHAEL BEALE	PART NO: TI-150	
THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG.	THIRD ANGLE PROJECTION 	SCALE: 1:1	DO NOT SCALE DRAWING
INTERPRET PRINT PER ASME Y14.5M-2009	DIMENSIONS: mm	REV: A	SHEET 2 OF 4

# TI-150-X.X-X-01

## MOUNTING RECOMMENDATION

### NOTES:

- [1] DOUBLE THE NEGATIVE TOLERANCE WHEN PRESSING INTO PLASTIC.
- [2] LOCATE MOUNTING GAP OVER HINGE BODY FOR ADDITIONAL SUPPORT.
- [3] GEOMETRY BETWEEN POINTS E & F CCW MAY VARY IF DESIRED (CUTTER RELIEF).
- [4] LONG SIDE OF MOUNTING GEOMETRIES REQUIRE PARTIAL RIBS FOR METAL PARTS WITH  $\leq 1.0^\circ$  OF DRAFT AND  $\leq 1.8^\circ$  FOR PLASTIC PARTS.



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	APPROVED BY: MICHAEL BEALE	DEVELOPMENT CYCLE: PRODUCTION
	APPROVED DATE: 13JUL20	DESCRIPTION:
	PROJECT NO: 101269	<b>SALES DRAWING</b>
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA	ENGINEER: MICHAEL BEALE	PART NO: <b>TI-150</b>
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INTERPRET PRINT PER ASME Y14.5M-2009	THIRD ANGLE PROJECTION 	SCALE: 3:2 DO NOT SCALE DRAWING
	DIMENSIONS: mm	SHEET 3 OF 4

# TI-150-X.X-X-01

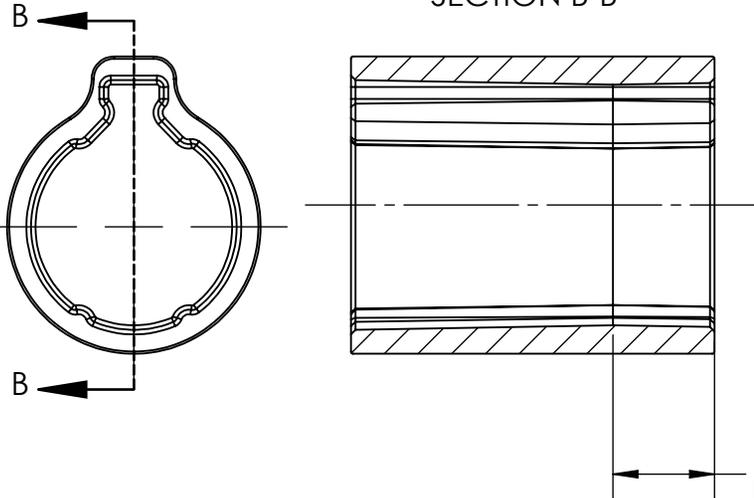
## MOUNTING RECOMMENDATION WITH DRAFT

**NOTES:**

- [1] WHEN DRAFTING BETWEEN 1° AND 2°: ADD 0.1 mm OF INTERFERENCE OVER THE TAB, FROM 3.5 NOM. TO 3.4 NOM. TO GUARANTEE CONTACT OVER FULL LENGTH OF THE TAB
- [2] NEUTRAL PLANE INDICATES THE PLANE OF NOMINAL INTERFERENCE RECOMMENDED ON PREVIOUS PAGE.
- 3. LARGE DRAFT ANGLES WILL REDUCE RADIAL LOAD SUPPORT.

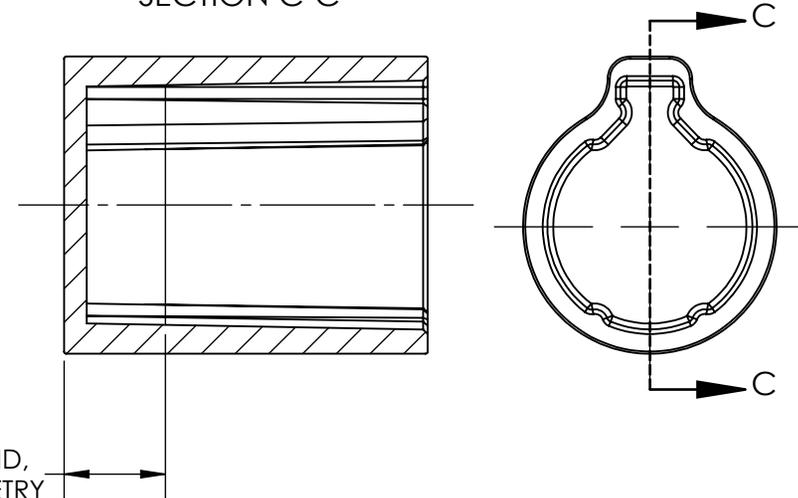
### DOUBLE PULL DRAFTS

SECTION B-B

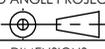


### SINGLE PULL DRAFTS

SECTION C-C



9±0.25  
NEUTRAL PLANE FROM END,  
LONG AND SHORT GEOMETRY  
SEE NOTE [1] & [2]

	ECO NO: 02772	PART LIFECYCLE: RELEASED			
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	PROJECT NO: 101269	<b>SALES DRAWING</b>			
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA	ENGINEER: MICHAEL BEALE	<table border="1" style="width: 100%;"> <tr> <td style="width: 60%;">PART NO: TI-150</td> <td style="width: 40%;">REV: A</td> </tr> </table>		PART NO: TI-150	REV: A
PART NO: TI-150	REV: A				
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INTERPRET PRINT PER ASME Y14.5M-2009	THIRD ANGLE PROJECTION 	SCALE: 3:2	DO NOT SCALE DRAWING		
	DIMENSIONS: mm		SHEET 4 OF 4		