

NAME: TI - C5M - X.XX - XX


TORQUE Nm
- 0.15
- 0.25
- 0.30

SHAFT-END TYPE
-01 - KNURLED SHAFT
-02 - SINGLE FIN

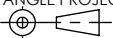
TORQUE INSERT	DYNAMIC TORQUE	
	NOMINAL	TOLERANCE
	Nm	±
TI-C5M-0.15-01	0.15	30%
TI-C5M-0.25-01	0.25	30%
TI-C5M-0.30-01	0.30	25%
TI-C5M-0.15-02	0.15	30%
TI-C5M-0.25-02	0.25	30%
TI-C5M-0.30-02	0.30	25%

NOTES:

- APPLICATION CONDITIONS REFERENCE (USER MUST DETERMINE FITNESS FOR USE IN APPLICATION)
- LIFE: 30,000 CYCLES ONE CYCLE CONSISTS OF 135° CW AND 135° CCW.
- DIMENSIONS APPLY WITH THE ASSEMBLY RESTRAINED IN THE ABC REFERENCE FRAME.
- ⬡ ASSEMBLY DIMENSION.
- HINGE NOT DESIGNED TO SUPPORT AXIAL FORCE IN EITHER DIRECTION.
- MATERIALS:
DIECAST ZINC HOUSINGS
POWDERED METAL SHAFT END
HARDENED STEEL TORQUE ELEMENT
MINERAL OIL BASED LUBRICANT
- FINISH:
NON-COSMETIC PLAIN.
- CUSTOMER IS RESPONSIBLE FOR CHECKING COMPATIBILITY OF REELL LUBRICANTS WITH PLASTICS USED.

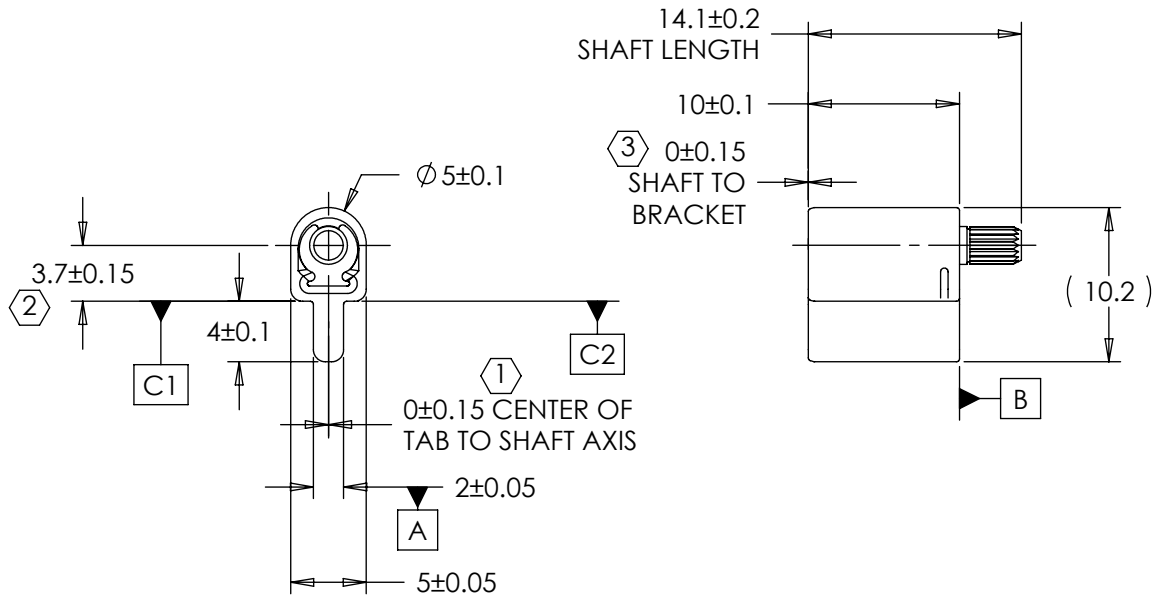
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DRAWN: HMA	DATE: 13DEC13	PART NO: 84002-XXX		
CHECKED: STK	DATE: 24APR14	TITLE: TORQUE INSERT		
APPROVED: STK	DATE: 24APR14			
REVISED: 03NOV15	DIMS: mm	DESCRIPTION: TI-C5M		
 REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		SCALE: 2:1	DO NOT SCALE DRAWING	REV: K
		SHEET 1 OF 4		

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

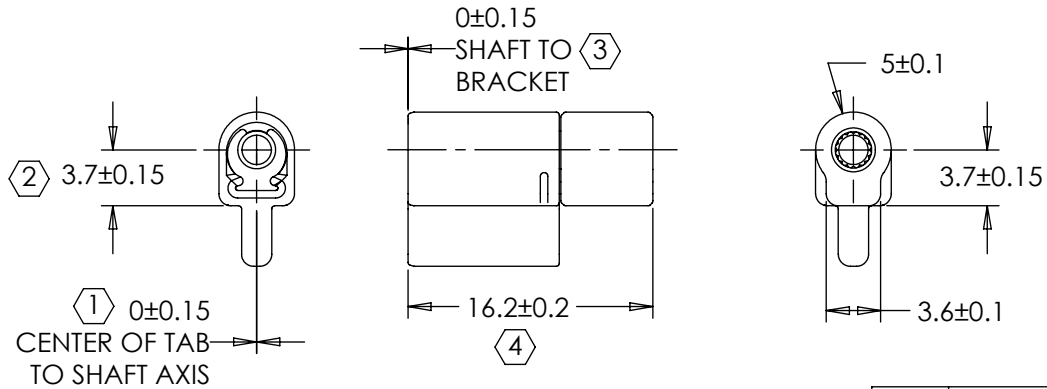


SPECIFICATION SUBJECT TO CHANGE

TI-C5M-X.XX-01



TI-C5M-X.XX-02



ALL BRACKET DIMENSIONS AND DATUMS FROM TI-C5M-X.XX-01 APPLY TO TI-C5M-X.XX-02

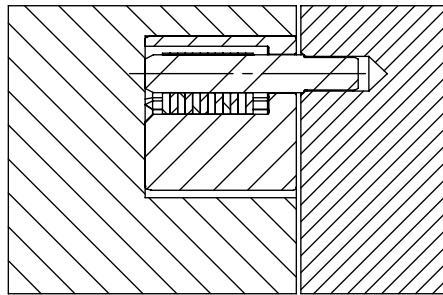
SPECIFICATION SUBJECT TO CHANGE

LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	HMA	DATE: 13DEC13	PART NO: 84002-XXX		
CHECKED:	STK	DATE: 24APR14	TITLE: TORQUE INSERT		
APPROVED:	STK	DATE: 24APR14	DESCRIPTION: TI-C5M		
REVISED:	03NOV15	DIMS: mm	REV: K		
INTERPRET PRINT PER ASME Y14.5M-1994 THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG. THIRD ANGLE PROJECTION				REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA	
SCALE: 2:1		DO NOT SCALE DRAWING		SHEET 2 OF 4	

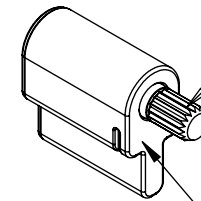
TI-C5M-X.XX-01 CUSTOMER INSTALLATION GEOMETRY

CUSTOMER MATERIAL	D1	D2	L1	L2	L3	L4	L5	L6	CF1	WALL	GAP
DIE CAST ZINC	2.3±0.03	5±0.03	3.7±0.05	4.5±0.1	1.9±0.03	5±0.03	10±0.05	4.5 MIN	0.3±0.1 X 45°±5°	1.25 MIN	0.1 MIN
DIE CAST ALUMINUM	2.3±0.03	5±0.03	3.7±0.05	4.5±0.1	1.9±0.03	5±0.03	10±0.05	4.5 MIN	0.3±0.1 X 45°±5°	1.25 MIN	0.1 MIN
MILD STEEL	2.4±0.015	5±0.03	3.7±0.05	4.5±0.1	1.9±0.03	5±0.03	10±0.05	4.5 MIN	0.3±0.1 X 45°±5°	1.25 MIN	0.1 MIN
WROUGHT ALUMINUM	2.4±0.015	5±0.03	3.7±0.05	4.5±0.1	1.9±0.03	5±0.03	10±0.05	4.5 MIN	0.3±0.1 X 45°±5°	1.25 MIN	0.1 MIN

- HINGE HOUSING MAY BE PRESS FIT INTO NON-METALLIC MATERIALS. DELRIN DIMENSIONS SPECIFIED FOR HINGE HOUSING ON PAGE 4.
CONTACT REELL FOR OTHER MOUNTING OPTIONS.

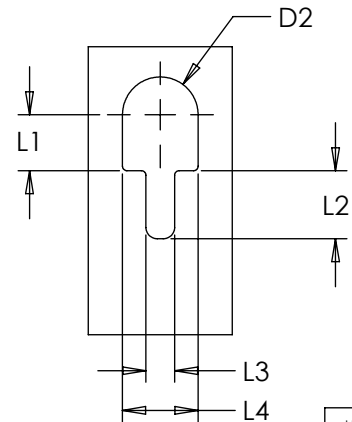
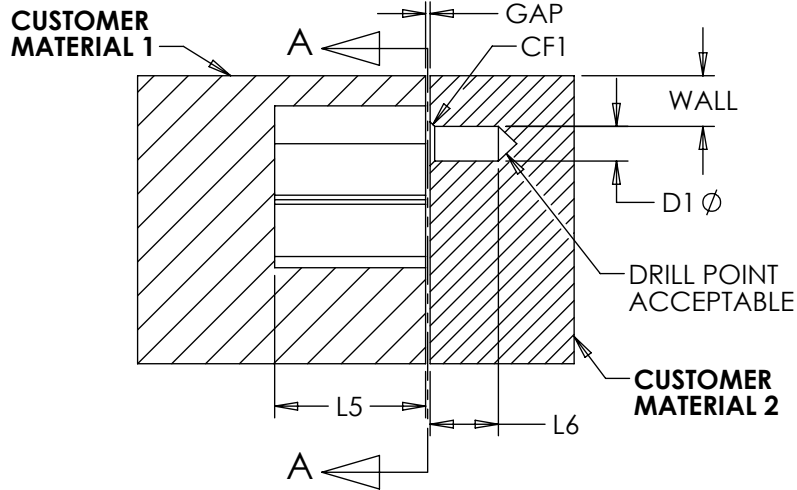


HINGE PRESS



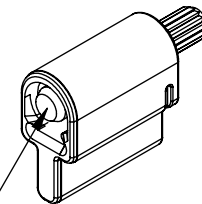
PRESS TOOLING SHOULD BE CLEARANCED TO AVOID CONTACT WITH SHAFT

TO INSERT HINGE, PRESS ON SURFACE INDICATED



SECTION A-A

KNURLED SHAFT PRESS



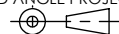
FRONT OF SHAFT MUST BE SUPPORTED DURING INSTALLATION

LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN:	HMA	DATE:	13DEC13	PART NO:
CHECKED:	STK	DATE:	24APR14	84002-XXX
APPROVED:	STK	DATE:	24APR14	TITLE:
REVISED:	03NOV15	DIMS:	mm	TORQUE INSERT
				DESCRIPTION:
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA				REV:
SCALE: 2:1 DO NOT SCALE DRAWING				K
SHEET 3 OF 4				

SPECIFICATION SUBJECT TO CHANGE

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THIRD ANGLE PROJECTION



8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

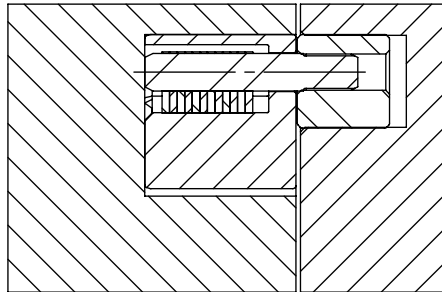
D
C
B
A

D
C
B
A

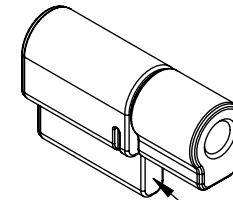
TI-C5M-X.XX-02 CUSTOMER INSTALLATION GEOMETRY

CUSTOMER MATERIAL	D1	D2	L1	L2	L3	L4	L5	L6	L7	L8	R1	CF1	WALL	GAP
DIE CAST ZINC	4.9 ±0.03	5 ±0.03	3.7 ±0.05	4.5 ±0.1	1.9 ±0.03	5 ±0.03	10 ±0.05	7 ±0.1	3.5 ±0.03	3.65 ±0.05	0.75 ±0.1	0.3 ±0.1 X 45° ±5°	1.25 MIN	0.1 MIN
DIE CAST ALUMINUM	4.9 ±0.03	5 ±0.03	3.7 ±0.05	4.5 ±0.1	1.9 ±0.03	5 ±0.03	10 ±0.05	7 ±0.1	3.5 ±0.03	3.65 ±0.05	0.75 ±0.1	0.3 ±0.1 X 45° ±5°	1.25 MIN	0.1 MIN
DELTRIN	4.6 ±0.015	5 ±0.03	3.7 ±0.05	4.5 ±0.1	1.7 ±0.03	5 ±0.03	10 ±0.05	7 ±0.1	3.2 ±0.03	3.5 ±0.05	0.6 ±0.1	0.3 ±0.1 X 45° ±5°	1.25 MIN	0.1 MIN

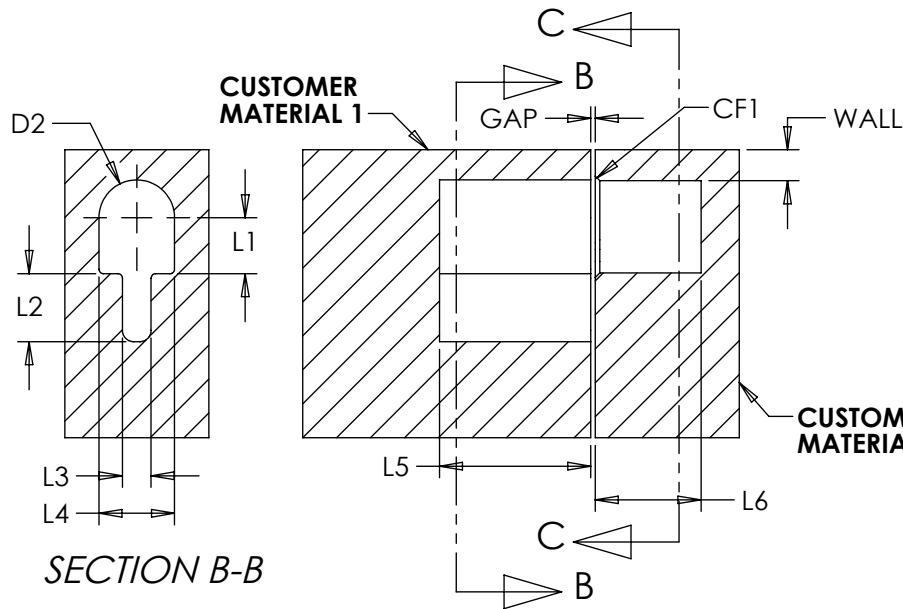
- DELTRIN DIMENSIONS SPECIFIED, OTHER PLASTICS MAY REQUIRE DIFFERENT MOUNTING OPTIONS.
CONTACT REELL FOR OTHER MOUNTING OPTIONS.



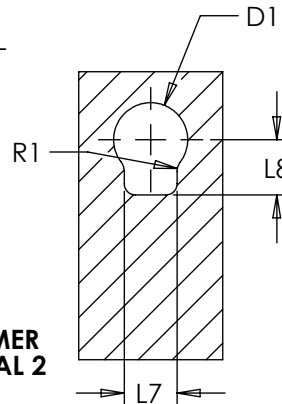
HINGE PRESS



TO INSERT HINGE, PRESS ON SURFACE INDICATED

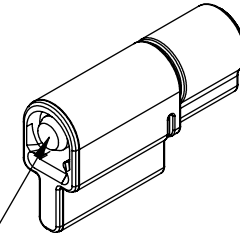


SECTION B-B



SECTION C-C

SHAFT END PRESS



FRONT OF SHAFT MUST BE SUPPORTED DURING INSTALLATION

SPECIFICATION SUBJECT TO CHANGE

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THIRD ANGLE PROJECTION

LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN: HMA	DATE: 13DEC13	PART NO: 84002-XXX		
CHECKED: STK	DATE: 24APR14	TITLE: TORQUE INSERT		
APPROVED: STK	DATE: 24APR14	DESCRIPTION: TI-C5M		
REVISED: 03NOV15	DIMS: mm	SCALE: 2:1		DO NOT SCALE DRAWING
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		REV: K		SHEET 4 OF 4



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

SCALE: 2:1 DO NOT SCALE DRAWING SHEET 4 OF 4