

RT - XXX - XX - XX

FRAME SIZE
 - 050
 - 070
 - 100
 - 120

TORQUE IN-LBS

SHAFT END TYPE
 01- FLAG
 02- STRAIGHT
 03- KNURLED SHAFT END
 04- DUAL FLAG
 05- DUAL STRAIGHT
 06- DUAL KNURLED SHAFT END

050
 - 01
 - 02
 - 03

070
 - 03
 - 04
 - 05
 - 06
 - 07
 - 08

100
 - 08
 - 12
 - 16
 - 20

120
 - 20
 - 30
 - 40
 - 50

PRODUCT TORQUE SPECIFICATION AT +20°C.

PRODUCT	NOMINAL TORQUE (IN-LBS)	TOLERANCE
RT-050	01, 02	±30%
RT-050	03	±25%
RT-070	ALL TORQUES	±20%
RT-100	ALL TORQUES	±20%
RT-120	ALL TORQUES	±20%

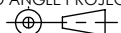
NOTES:

- APPLICATION CONDITIONS REFERENCE (USER MUST DETERMINE FITNESS FOR USE IN APPLICATION).
- ENVIRONMENTAL CONDITIONS: -20° TO +80°C. UP TO 10% OF LIFE CYCLES AT HOT AND COLD CONDITIONS.
- LIFE: 50,000 CYCLES. ONE CYCLE CONSISTS OF 90° CW AND 90° CCW AT 10% DUTY CYCLE FOR SPEEDS LESS THAN 100RPM.
- HINGE DESIGNED TO SUPPORT A MINIMAL AXIAL FORCE IN DIRECTION SHOWN, NOT DESIGNED TO SUPPORT AXIAL FORCE IN THE OPPOSITE DIRECTION.
- MATERIALS:
 ZINC DIE CAST HOUSINGS & FLAG SHAFT ENDS
 STEEL STRAIGHT SHAFT ENDS
 HARDENED STEEL SHAFT
 HARDENED STEEL TORQUE CLIPS
 MINERAL OIL BASED LUBRICANT
- FINISH:
 NON-COSMETIC PLAIN.
 CLEAR CHROMATE RUST PREVENTATIVE COATING ON THE STRAIGHT SHAFT.
- SHIP ANGLE 0° ±5° BETWEEN HOUSINGS.
- TOLERANCE UNLESS SPECIFIED IS ±0.15.
- SEE PAGE 8 FOR RECOMMENDED MATING HOLE GEOMETRY FOR KNURLED SHAFT END.
- DESIGNED TO ACCEPT M2 & #2 for RT-050, M3, #4 OR #5 SCREW FOR RT-070 & M4 OR #8 FOR RT-100 & RT-120 OR EQUIVALENT. (RT-070 USE LOW HEAD VERSION IF HEAD MUST BE SUBFLUSH.)

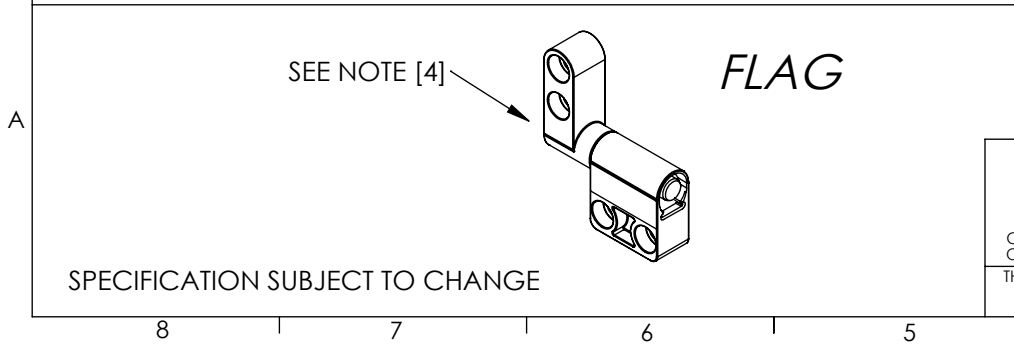
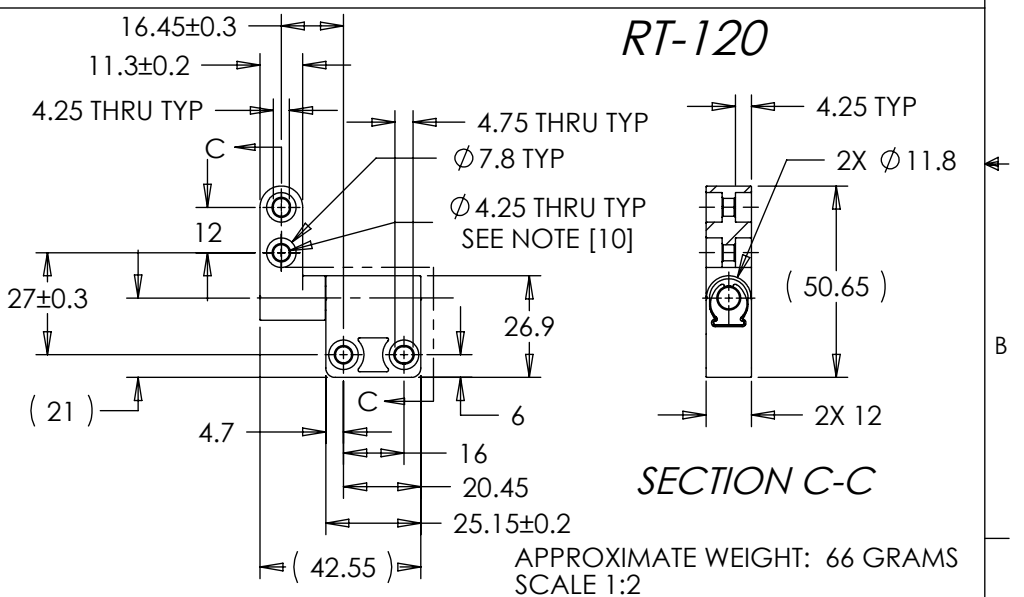
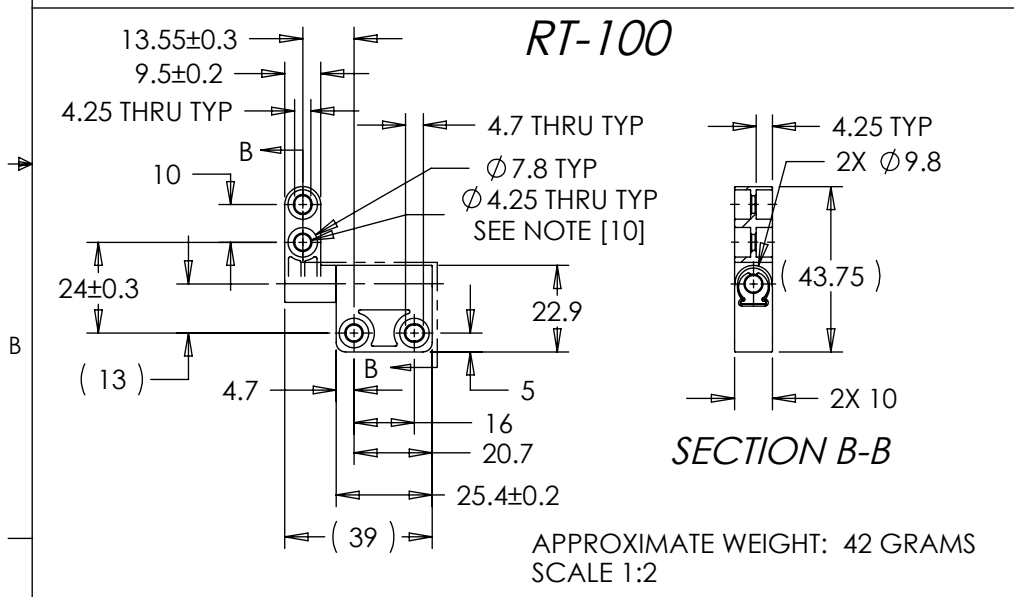
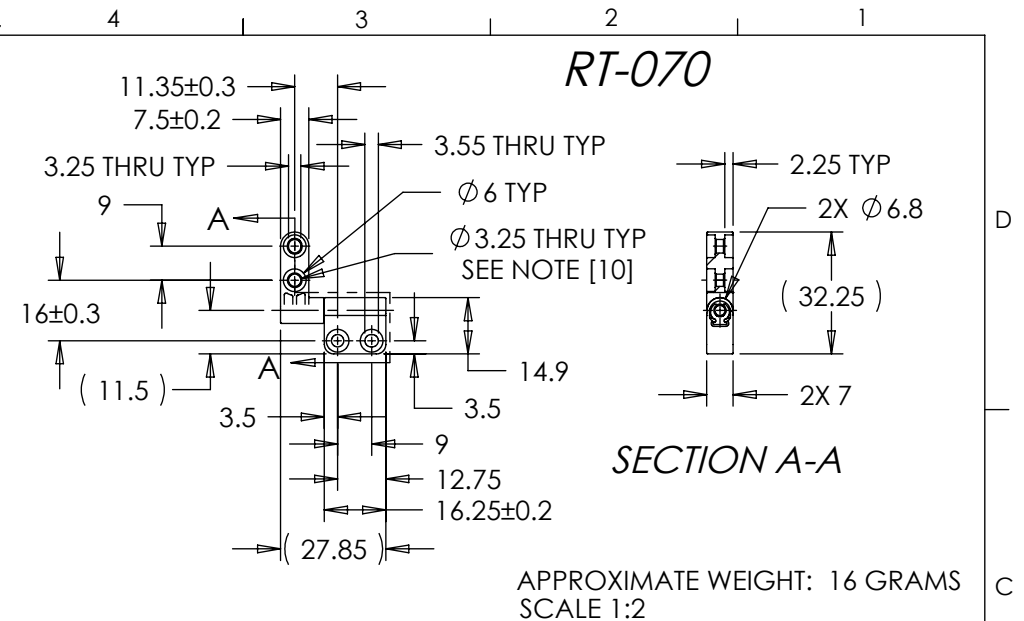
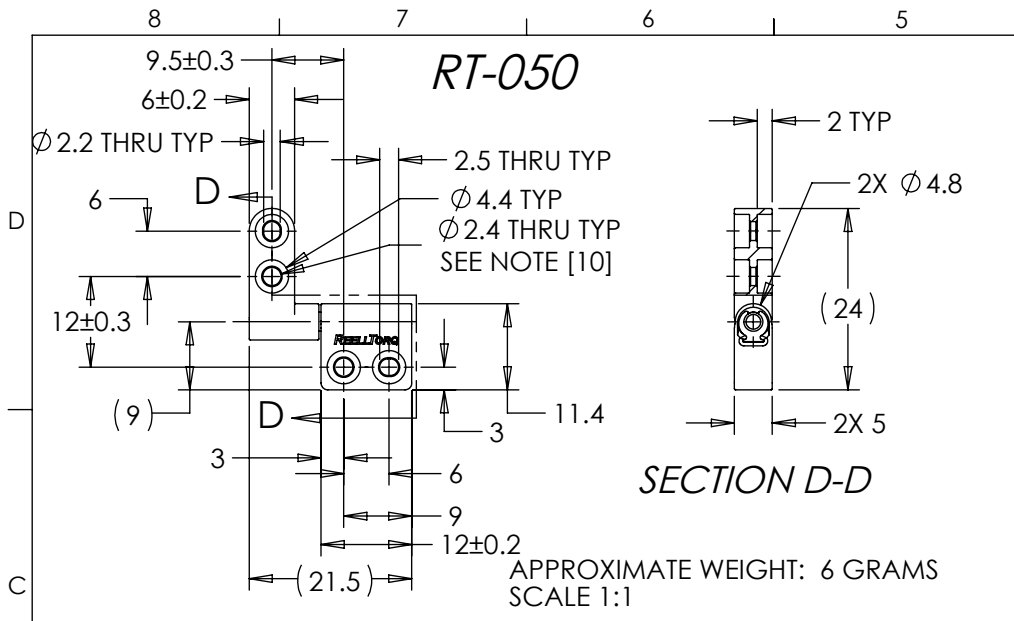
SPECIFICATION SUBJECT TO CHANGE

UNLESS SPECIFIED TOLERANCE ±0.15 INTERPRET PRINT PER ASME Y14.5M-1994 THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG.

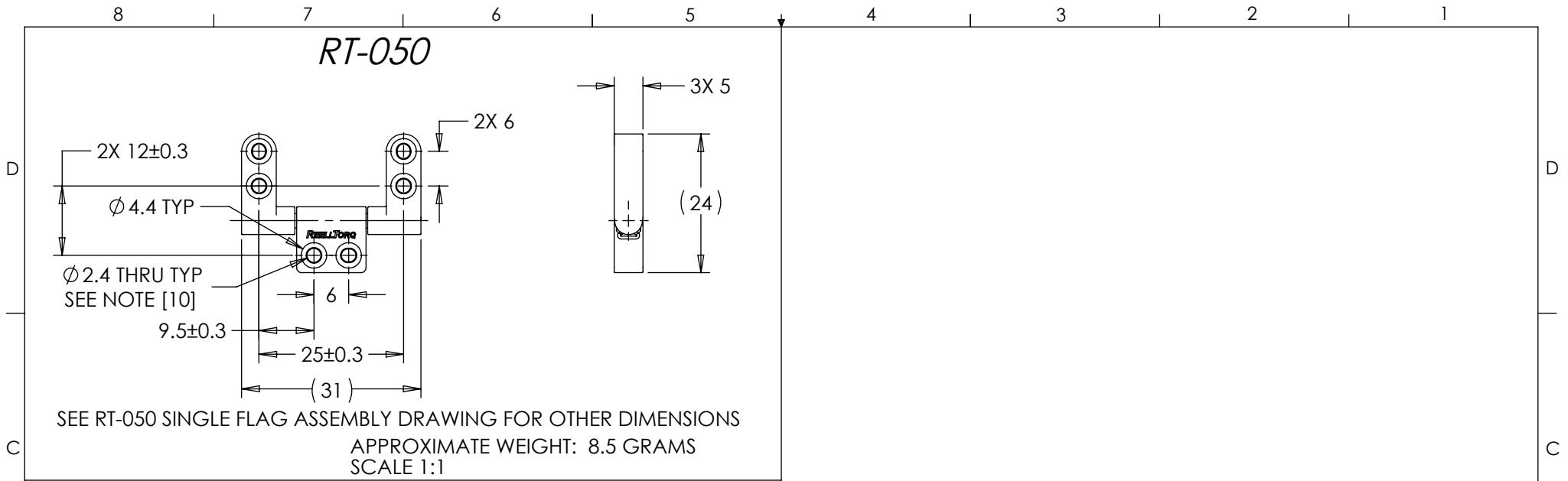
THIRD ANGLE PROJECTION



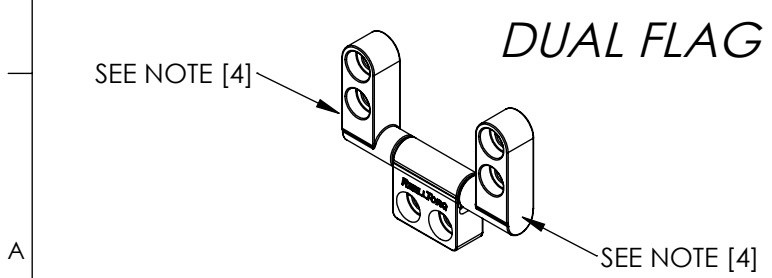
LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE: 83100-XXX, 84130-XXX		
CHECKED:	BLJ	DATE: 12DEC11	TITLE: SALES DRAWING RT HINGE ASSEMBLY		
APPROVED:	BLJ	DATE: 12DEC11	PART NO: RT-SERIES		
REVISED:	28OCT16	DIMS: mm	REV: F		
 REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA			SCALE: 1:2	DO NOT SCALE DRAWING	SHEET 1 OF 8



LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE: 83100-XXX, 84130-XXX		
CHECKED:	BLJ	DATE: 12DEC11	TITLE: SALES DRAWING RT HINGE ASSEMBLY		
APPROVED:	BLJ	DATE: 12DEC11	PART NO: RT-SERIES		
REVISED:	28OCT16	DIMS: mm	REV: F		
UNLESS SPECIFIED TOLERANCE ±0.15 INTERPRET PRINT PER ASME Y14.5M-1994 THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG.				REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA	
THIRD ANGLE PROJECTION		SCALE: 1:2		DO NOT SCALE DRAWING	



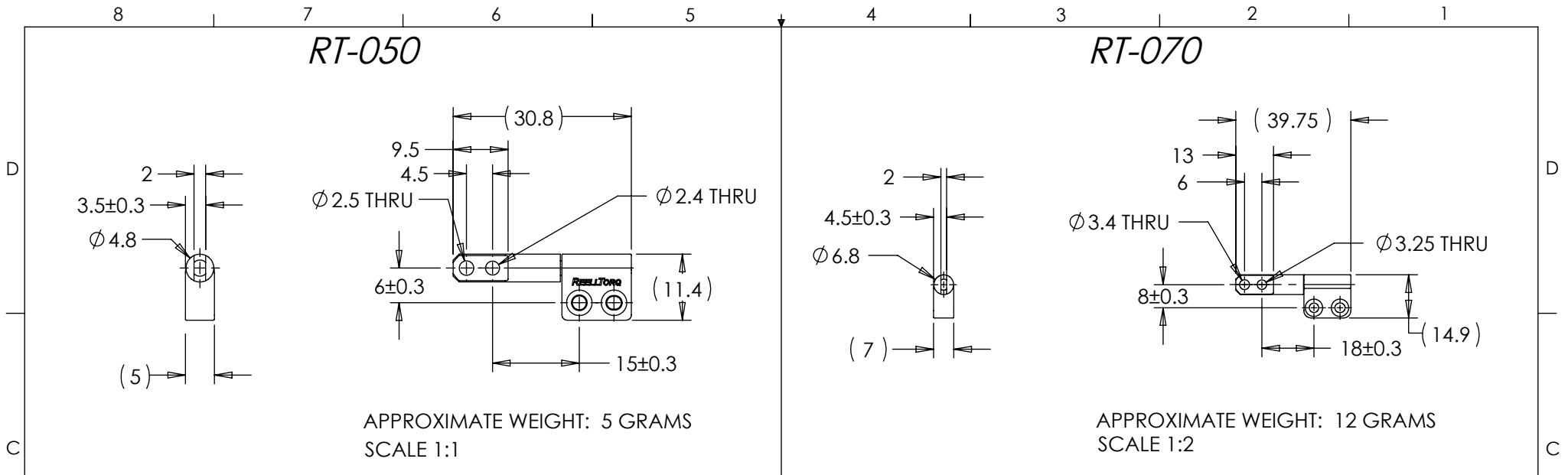
*CURRENTLY AVAILABLE
IN RT-050 FRAME SIZE ONLY*



SPECIFICATION SUBJECT TO CHANGE

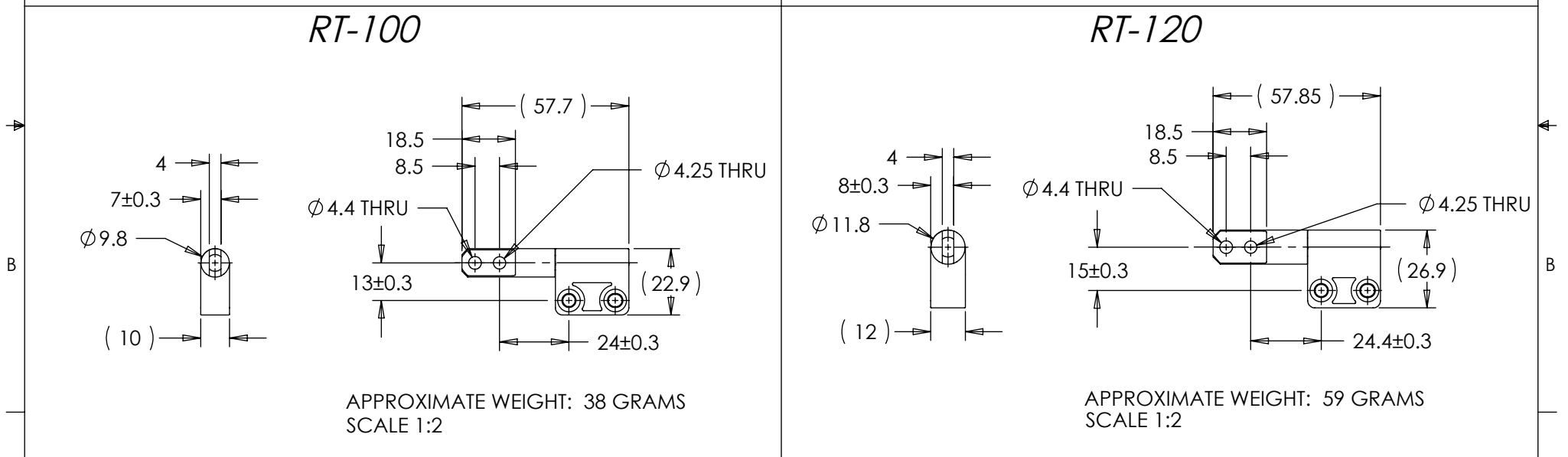
UNLESS SPECIFIED
TOLERANCE ±0.15
INTERPRET PRINT PER
ASME Y14.5M-1994
THIS PRINT IS THE
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THIRD ANGLE PROJECTION

LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE: 83100-XXX, 84130-XXX		
CHECKED:	BLJ	DATE: 12DEC11	TITLE: SALES DRAWING RT HINGE ASSEMBLY		
APPROVED:	BLJ	DATE: 12DEC11	PART NO: RT-SERIES		
REVISED:	28OCT16	DIMS: mm	REV: F		
			SCALE: 1:2 DO NOT SCALE DRAWING SHEET 3 OF 8		
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA					



APPROXIMATE WEIGHT: 5 GRAMS
SCALE 1:1

APPROXIMATE WEIGHT: 12 GRAMS
SCALE 1:2



APPROXIMATE WEIGHT: 38 GRAMS
SCALE 1:2

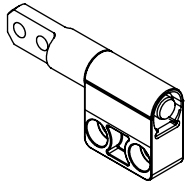
APPROXIMATE WEIGHT: 59 GRAMS
SCALE 1:2

SEE NOTE [4]

STRAIGHT

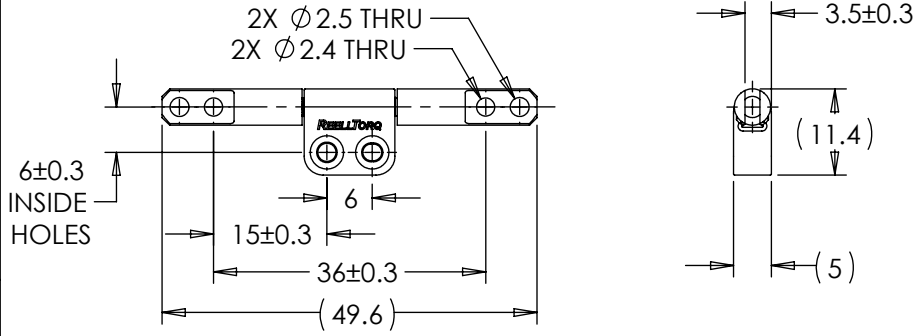
SEE SINGLE FLAG ASSEMBLY DRAWING FOR UNSPECIFIED BRACKET DIMENSIONS

SPECIFICATION SUBJECT TO CHANGE



LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE: 83100-XXX, 84130-XXX		
CHECKED:	BLJ	DATE: 12DEC11	TITLE: SALES DRAWING RT HINGE ASSEMBLY		
APPROVED:	BLJ	DATE: 12DEC11	PART NO: RT-SERIES		
REVISED:	28OCT16	DIMS: mm	REV: F		
UNLESS SPECIFIED TOLERANCE ±0.15 INTERPRET PRINT PER ASME Y14.5M-1994		REELL PRECISION MANUFACTURING			
THIS PRINT IS THE CONFIDENTIAL PROPERTY OF REELL PRECISION MFG.		1259 WILLOW LAKE BOULEVARD			
THIRD ANGLE PROJECTION		SAINT PAUL, MINNESOTA 55110-5103, USA			
SCALE: 1:2		DO NOT SCALE DRAWING		SHEET 4 OF 8	

RT-050

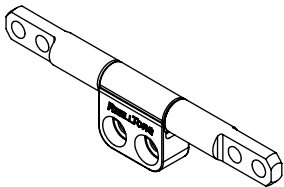


SEE RT-050 SINGLE FLAG ASSEMBLY DRAWING FOR UNSPECIFIED BRACKET DIMENSIONS
 SEE RT-050 STRAIGHT ASSEMBLY DRAWING FOR OTHER DIMENSIONS

APPROXIMATE WEIGHT: 6.7 GRAMS
 SCALE 1:1

*CURRENTLY AVAILABLE
 IN RT-050 FRAME SIZE ONLY*

SEE NOTE [4]



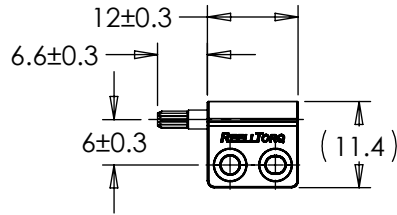
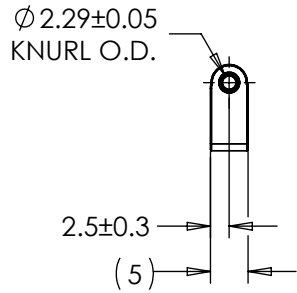
DUAL STRAIGHT

SEE NOTE [4]

SPECIFICATION SUBJECT TO CHANGE

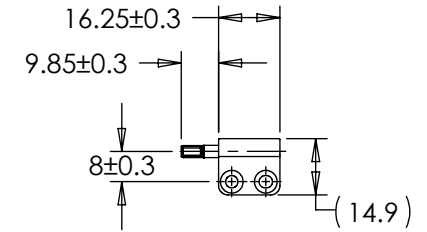
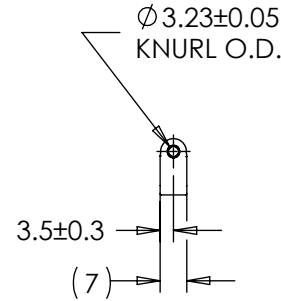
LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE: 83100-XXX, 84130-XXX		
CHECKED:	BLJ	DATE: 12DEC11	TITLE: SALES DRAWING RT HINGE ASSEMBLY		
APPROVED:	BLJ	DATE: 12DEC11	PART NO: RT-SERIES		
REVISED:	28OCT16	DIMS: mm	REV: F		
UNLESS SPECIFIED TOLERANCE ±0.15 INTERPRET PRINT PER 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: 1:2	DO NOT SCALE DRAWING	SHEET 5 OF 8

RT-050



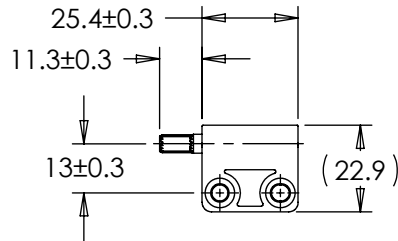
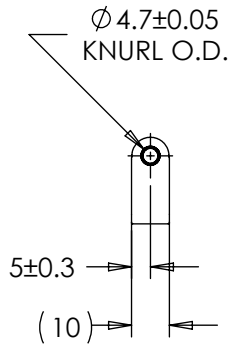
APPROXIMATE WEIGHT: 4 GRAMS
SCALE 1:1

RT-070



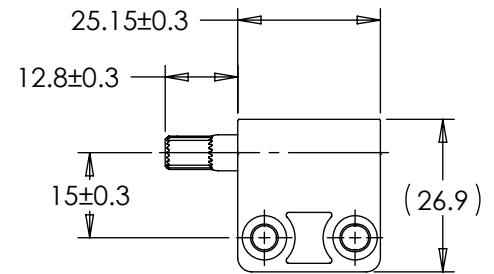
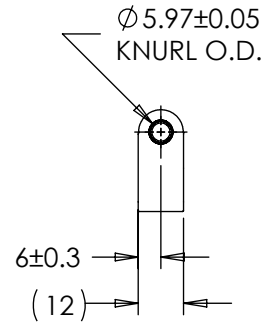
APPROXIMATE WEIGHT: 9 GRAMS
SCALE 1:2

RT-100



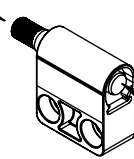
APPROXIMATE WEIGHT: 27 GRAMS
SCALE 1:2

RT-120



APPROXIMATE WEIGHT: 43 GRAMS
SCALE 1:2

SEE NOTE [4]



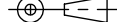
KNURLED SHAFT END

SUPPORT ON
END OF SHAFT
WHEN INSTALLING
PART ONTO KNURL

SEE SINGLE FLAG ASSEMBLY DRAWING
FOR UNSPECIFIED BRACKET DIMENSIONS
SPECIFICATION SUBJECT TO CHANGE

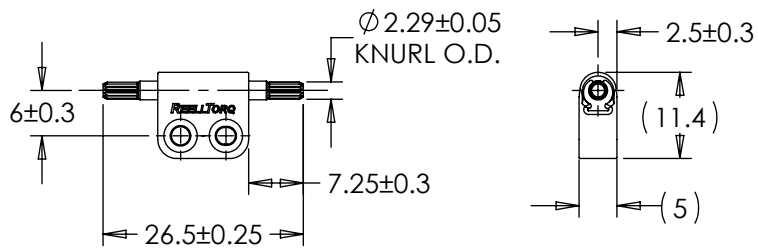
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THIRD ANGLE PROJECTION



LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE:	83100-XXX, 84130-XXX	
CHECKED:	BLJ	DATE: 12DEC11	TITLE:	SALES DRAWING RT HINGE ASSEMBLY	
APPROVED:	BLJ	DATE: 12DEC11	PART NO:	RT-SERIES	REV: F
REVISED:	28OCT16	DIMS: mm	SCALE: 1:2	DO NOT SCALE DRAWING	SHEET 6 OF 8
			REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		

RT-050



SEE RT-050 SINGLE FLAG ASSEMBLY DRAWING FOR UNSPECIFIED BRACKET DIMENSIONS

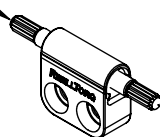
SEE RT-050 KNURLED SHAFT END ASSEMBLY DRAWING FOR OTHER DIMENSIONS

APPROXIMATE WEIGHT: 3.6 GRAMS
SCALE 1:1

*CURRENTLY AVAILABLE
IN RT-050 FRAME SIZE ONLY*

DUAL KNURLED SHAFT END

SEE NOTE [4]

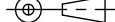


SUPPORT ON
END OF SHAFT
WHEN INSTALLING
PART ONTO KNURL

SPECIFICATION SUBJECT TO CHANGE

UNLESS SPECIFIED
TOLERANCE ± 0.15
INTERPRET PRINT PER
ASME Y14.5M-1994
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THIRD ANGLE PROJECTION



LEVEL	DESCRIPTION		DRAWN	DATE	APPROVED
DRAWN:	TLS	DATE: 23JUN11	REFERENCE:		
CHECKED:	BLJ	DATE: 12DEC11	83100-XXX, 84130-XXX		
APPROVED:	BLJ	DATE: 12DEC11	TITLE:		
REVISED:	28OCT16	DIMS: mm	SALES DRAWING RT HINGE ASSEMBLY		
			PART NO:		REV:
			RT-SERIES		F
REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		SCALE: 1:2	DO NOT SCALE DRAWING		SHEET 7 OF 8

RT-050

MATERIAL	D1	D2	L1	L2	OD	WALL	GAP
DIE CAST ZINC	2.44+/-0.03	2.04+/-0.03	3.5 +/-0.15	7 MIN	4 MIN	1 MIN	0.1 nominal
DIE CAST ALUMINUM	2.44+/-0.03	2.04+/-0.03	3.5 +/-0.15	7 MIN	4 MIN	1 MIN	0.1 nominal
MILD STEEL	2.55+/-0.03	2.06+/-0.015	3.5 +/-0.15	7 MIN	4 MIN	1 MIN	0.1 nominal
WROUGHT ALUMINUM	2.55+/-0.03	2.06+/-0.015	3.5 +/-0.15	7 MIN	4 MIN	1 MIN	0.1 nominal

RT-070

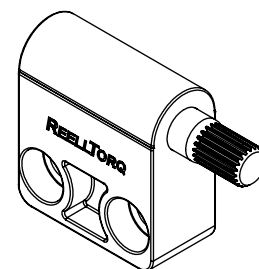
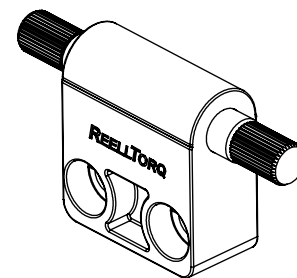
MATERIAL	D1	D2	L1	L2	OD	WALL	GAP
DIE CAST ZINC	3.18+/-0.03	3.03+/-0.03	4.25 +/-0.15	10.1 MIN	6 MIN	1 MIN	0.1 nominal
DIE CAST ALUMINUM	3.18+/-0.03	3.03+/-0.03	4.25 +/-0.15	10.1 MIN	6 MIN	1 MIN	0.1 nominal
MILD STEEL	3.28+/-0.05	3.115+/-0.015	4.25 +/-0.15	10.1 MIN	6 MIN	1 MIN	0.1 nominal
WROUGHT ALUMINUM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

RT-100

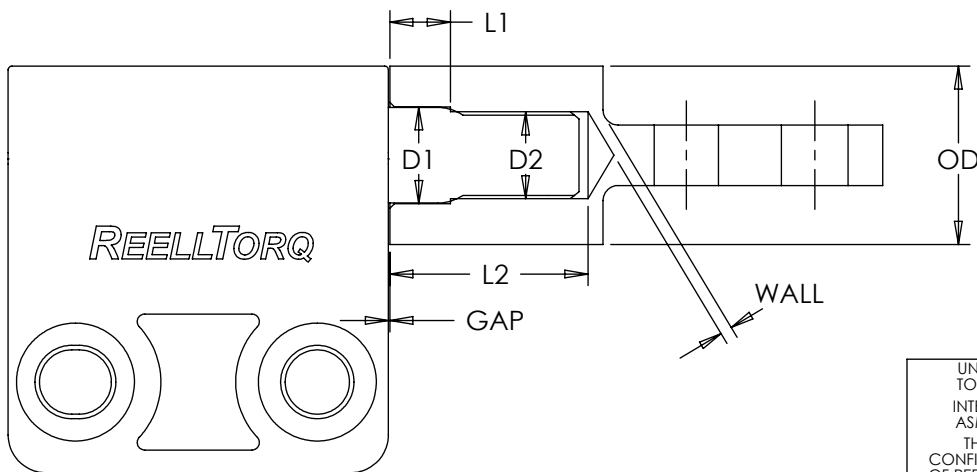
MATERIAL	D1	D2	L1	L2	OD	WALL	GAP
DIE CAST ZINC	4.93+/-0.03	4.5+/-0.03	2.5 +/-0.1	11.5 MIN	8 MIN	1 MIN	0.1 nominal
DIE CAST ALUMINUM	4.93+/-0.03	4.5+/-0.03	2.5 +/-0.1	11.5 MIN	8 MIN	1 MIN	0.1 nominal
MILD STEEL	5.05+/-0.05	4.495+/-0.015	2.5 +/-0.1	11.5 MIN	8 MIN	1 MIN	0.1 nominal
WROUGHT ALUMINUM	5.05+/-0.05	4.495+/-0.015	2.5 +/-0.1	11.5 MIN	8 MIN	1 MIN	0.1 nominal

RT-120

MATERIAL	D1	D2	L1	L2	OD	WALL	GAP
DIE CAST ZINC	6.23+/-0.03	5.7+/-0.03	4.5 +/-0.1	13.25 MIN	10 MIN	1 MIN	0.1 nominal
DIE CAST ALUMINUM	6.23+/-0.03	5.7+/-0.03	4.5 +/-0.1	13.25 MIN	10 MIN	1 MIN	0.1 nominal
MILD STEEL	6.4+/-0.05	5.745+/-0.015	4.5 +/-0.1	13.25 MIN	10 MIN	1 MIN	0.1 nominal
WROUGHT ALUMINUM	6.4+/-0.05	5.745+/-0.015	4.5 +/-0.1	13.25 MIN	10 MIN	1 MIN	0.1 nominal



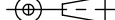
**RECOMMENDED
MATING GEOMETRY
FOR KNURLED
SHAFT END**



SPECIFICATION SUBJECT TO CHANGE

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TOLERANCE ±0.15
INTERPRET PRINT PER
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THIRD ANGLE PROJECTION



LEVEL	DESCRIPTION	DRAWN	DATE	APPROVED
DRAWN: TLS	DATE: 23JUN11	REFERENCE: 83100-XXX, 84130-XXX		
CHECKED: BLJ	DATE: 12DEC11	TITLE: SALES DRAWING RT HINGE ASSEMBLY		
APPROVED: BLJ	DATE: 12DEC11	PART NO: RT-SERIES		
REVISED: 28OCT16	DIMS: mm	REV: F		
		REELL PRECISION MANUFACTURING 1259 WILLOW LAKE BOULEVARD SAINT PAUL, MINNESOTA 55110-5103, USA		
SCALE: 1:2	DO NOT SCALE DRAWING	SHEET 8 OF 8		