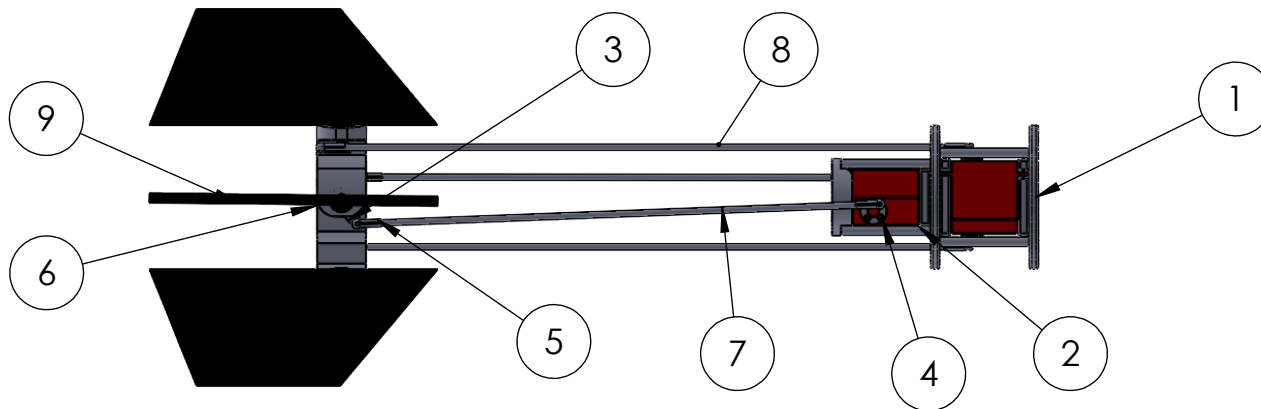


B

B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Servo Holder	Holds Servos.	1
2	Servo Place Holder	Servo to control fins.	4
3	lower arm	Connects push rod to fins.	4
4	Upper Gear Round	Connects the servo to push rod.	4
5	Rod Holder	Holds push rods to the Upper lower arm	8
6	Fin Holder	Holds the fins and is meant to fix fin to rotate.	1
7	Short Push Rod	Rod to connect lower servo to fins.	2
8	Long Push Rod	Rod to connect top servo to fins.	2
9	ARC Fins	Fins to control the rocket.	4



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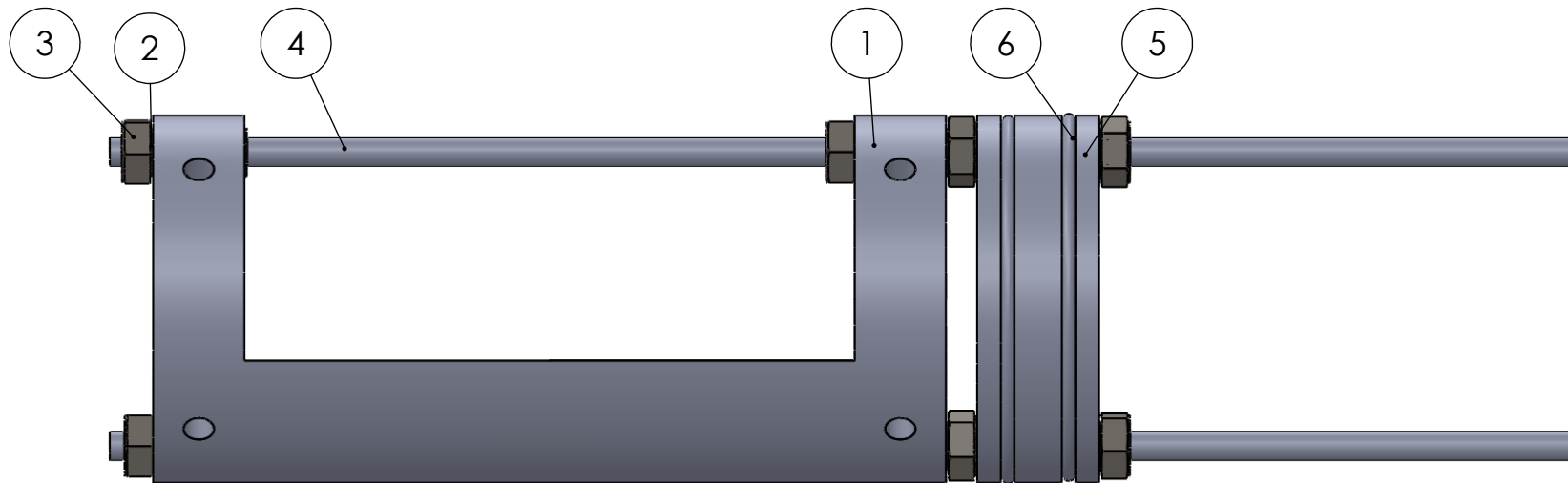
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Control Mechanism Assembly		
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE A		
		THREE PLACE DECIMAL ±	Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:			DWG. NO.		REV
ARC Full	ARC	MATERIAL				Control Mechanism Assembly		
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

B

B

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3in Sled	Holds Electronics and will connect to the fuselage.	1
2	Washer 0.23in	Used to keep each part from being damaged by nuts.	8
3	Sled Nuts	Nuts to secure parts to all threads.	7
4	All Thread 12in long	Connects sled assembly together.	2
5	Oring Holder	Is used to hold O-Rings. Will also hold i-bolt for parachute.	1
6	3in O Ring	Used to keep black powder gasses out of sled.	2



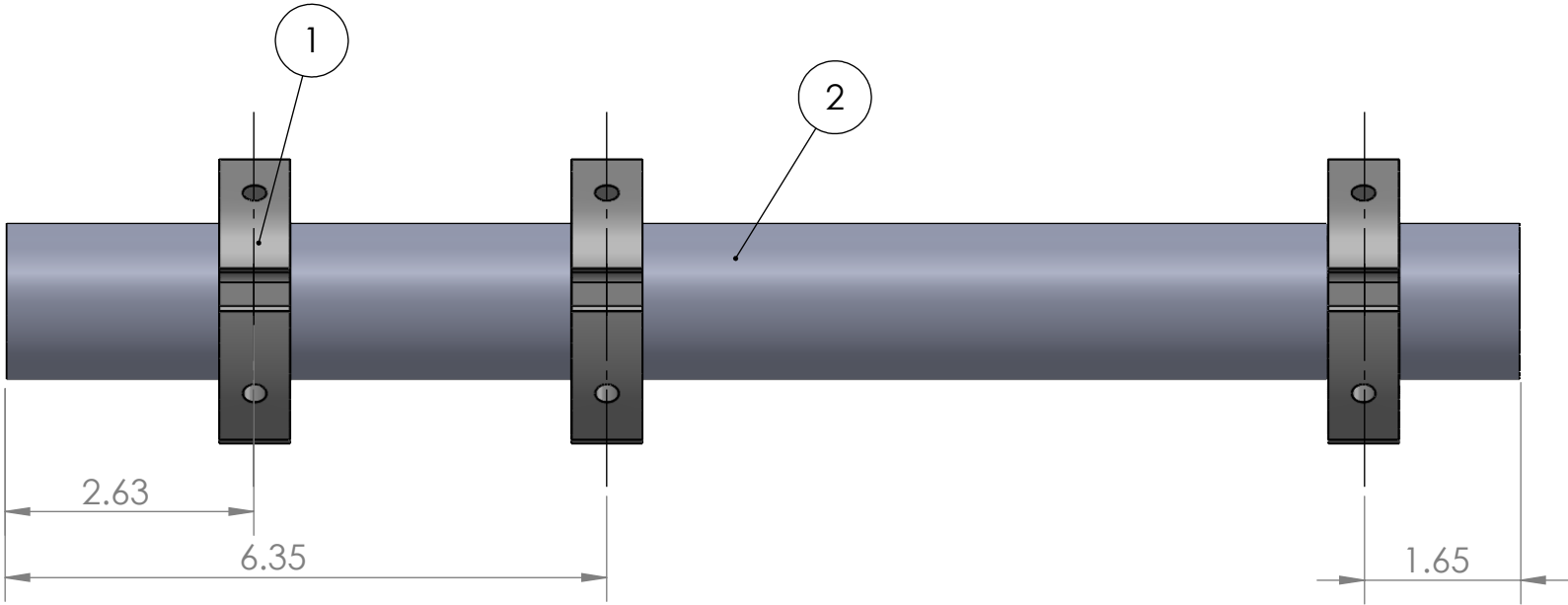
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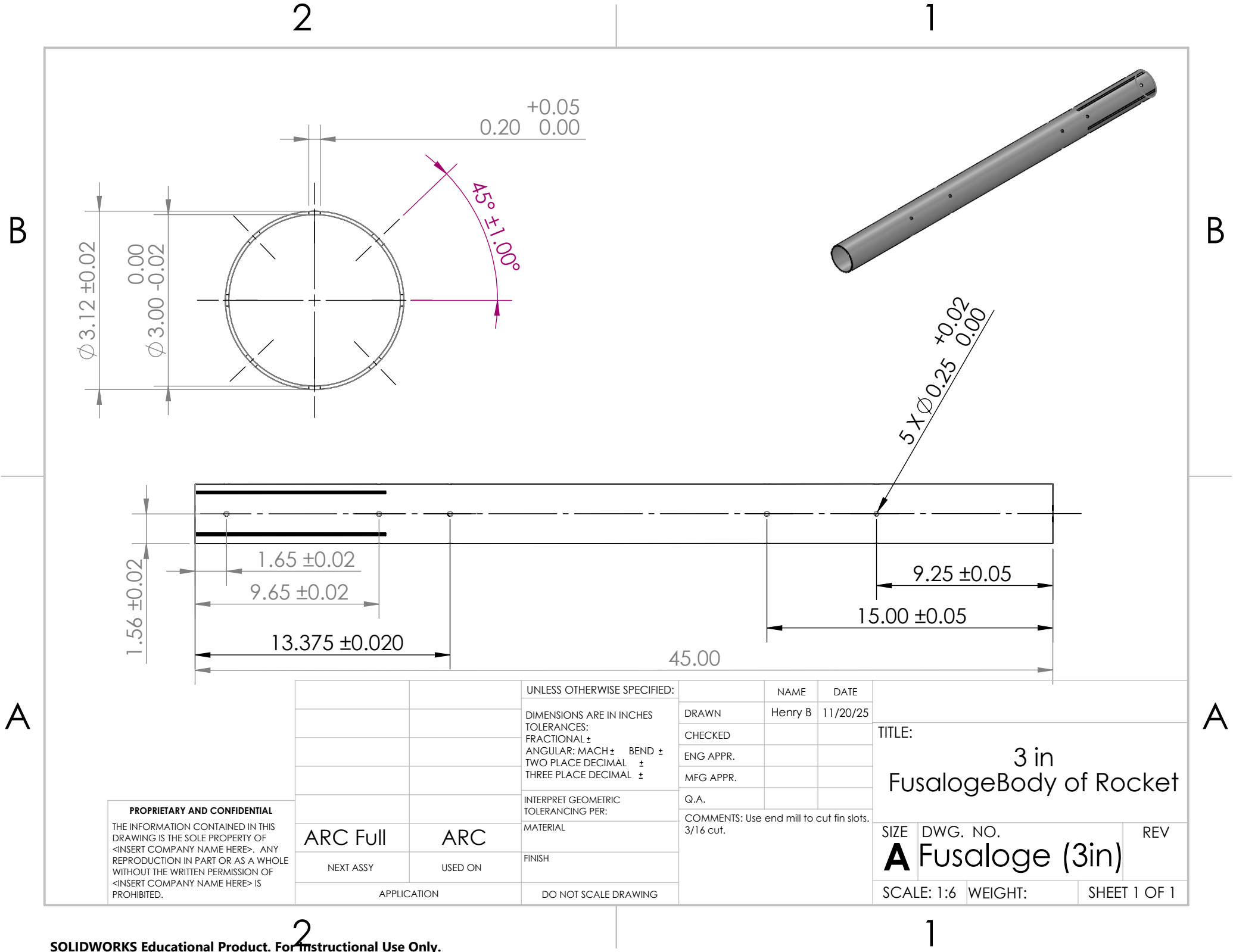
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Full ARC Sled Assembly	
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25		
		TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED				
		INTERPRET GEOMETRIC TOLERANCING PER:	ENG APPR.				
		MATERIAL	MFG APPR.				
ARC FULL	ARC	FINISH	Q.A.			SIZE A	DWG. NO. Full Sled Assembly
NEXT ASSY	USED ON		COMMENTS:			REV	
APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:1.5	WEIGHT:	SHEET 1 OF 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	3 in Diameter Motor Ring	Ring to Connect to fuselage.	3
2	38mm Motor Tube	Holds I-500 rocket motor. Friction fits motor into tube.	1



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				DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25		
				TOLERANCES: ±0.02	CHECKED				
				FRACTIONAL ±	ENG APPR.				
				ANGULAR: MACH ± BEND ±	MFG APPR.				
				TWO PLACE DECIMAL ±	Q.A.				
				THREE PLACE DECIMAL ±	COMMENTS: Adapter rings will be connected using epoxy.			SIZE	DWG. NO.
	ARC	ARC		INTERPRET GEOMETRIC TOLERANCING PER:				A	Motor Assembly
	NEXT ASSY	USED ON		MATERIAL				REV	
				FINISH				SCALE:1:2	WEIGHT:
				APPLICATION	DO NOT SCALE DRAWING				SHEET 1 OF 1



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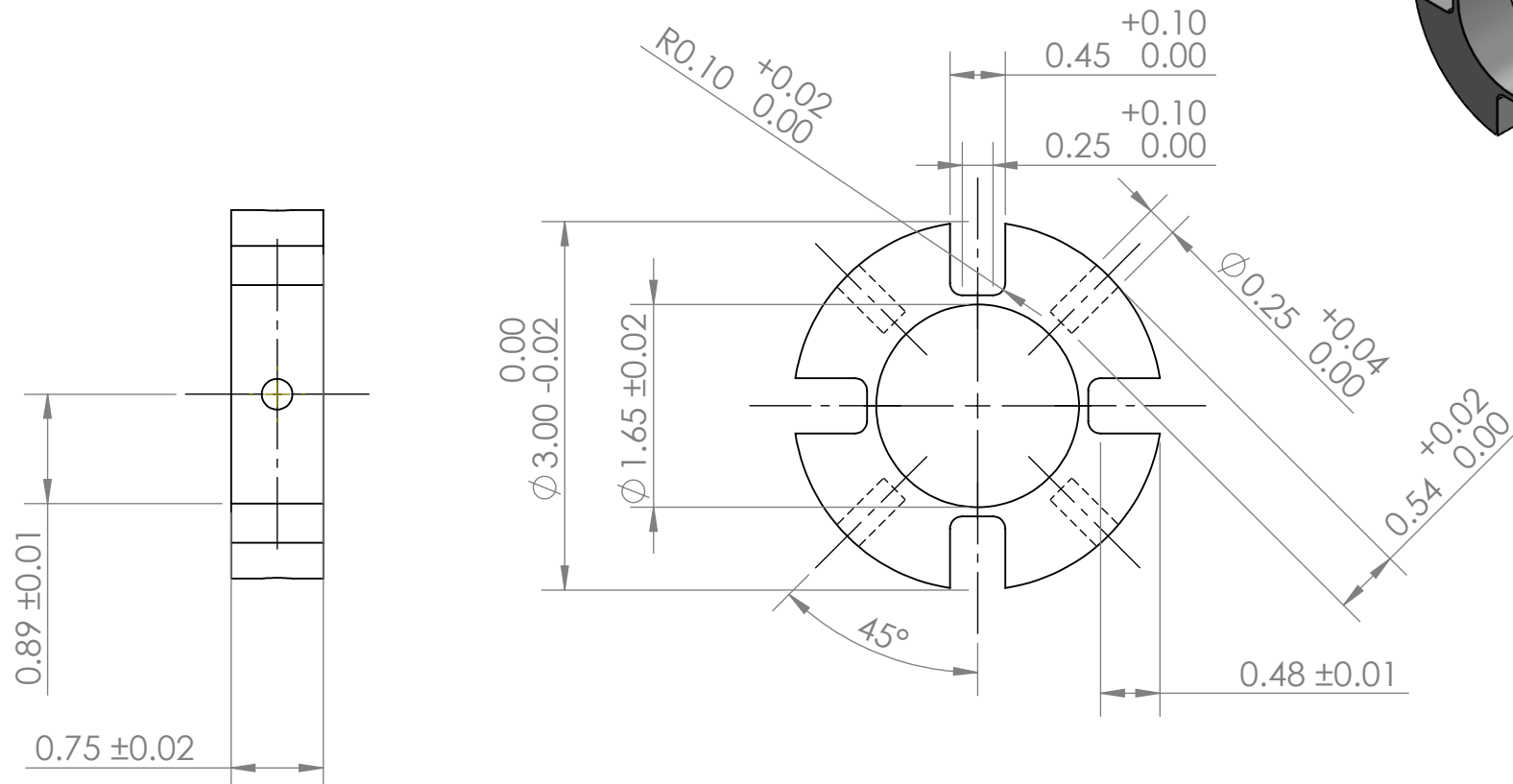
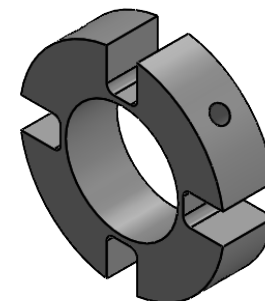
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	11/20/25
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS: Use end mill to cut fin slots. 3/16 cut.		
		INTERPRET GEOMETRIC TOLERANCING PER:			
ARC Full	ARC	MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:			3 in Fuselage Body of Rocket		
SIZE	DWG. NO.	REV			
A	Fuselage (3in)				
SCALE: 1:6	WEIGHT:	SHEET 1 OF 1			

1

B

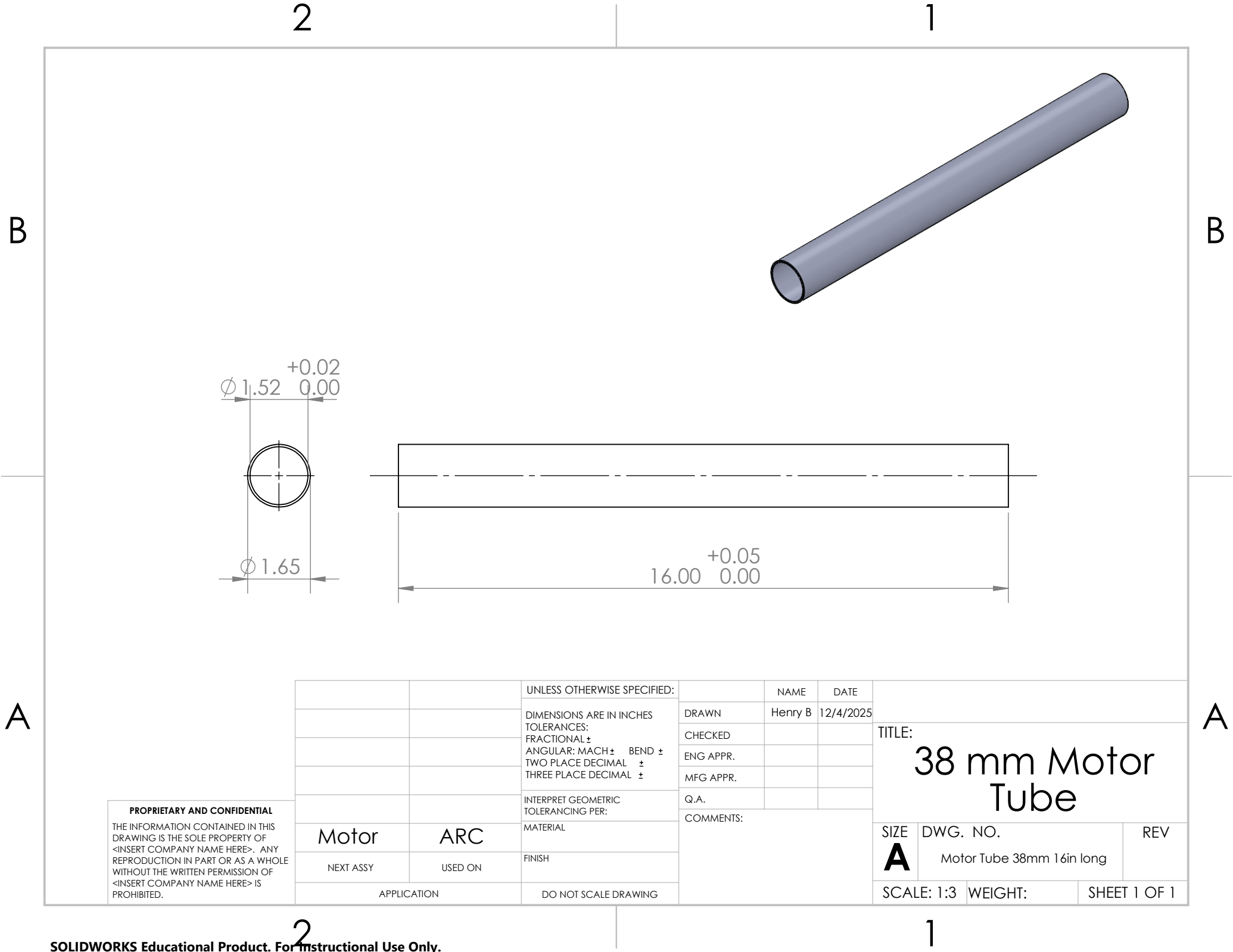


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			DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	11/20/25			
				CHECKED					
				ENG APPR.					
				MFG APPR.					
			INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE <div>A</div> DWG. NO. 3 in diamter motor ringREV SCALE: 1:1.5WEIGHT:SHEET 1 OF 1		
	Motor	ARC	MATERIAL	COMMENTS:					
	NEXT ASSY	USED ON	FINISH						
	APPLICATION		DO NOT SCALE DRAWING						

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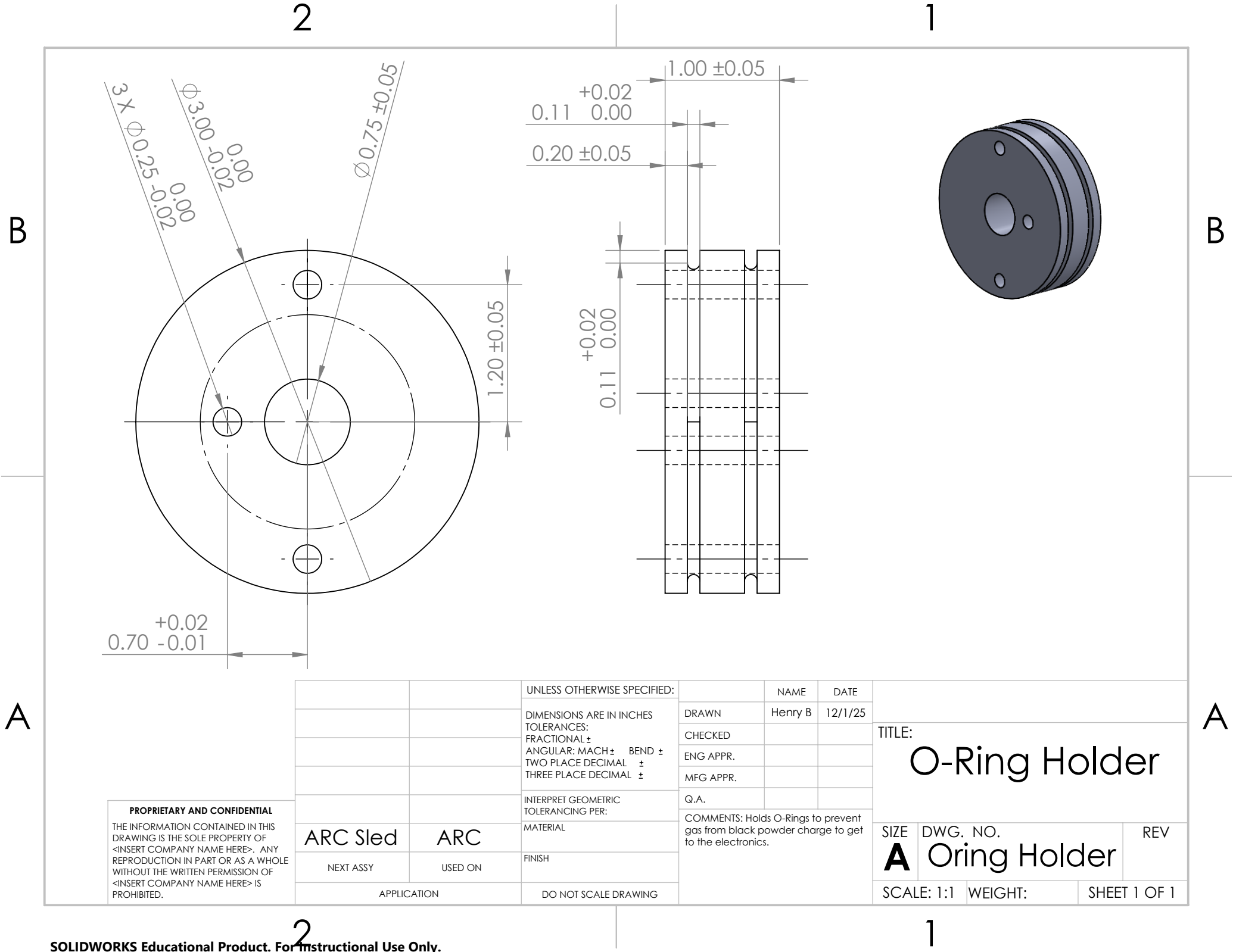
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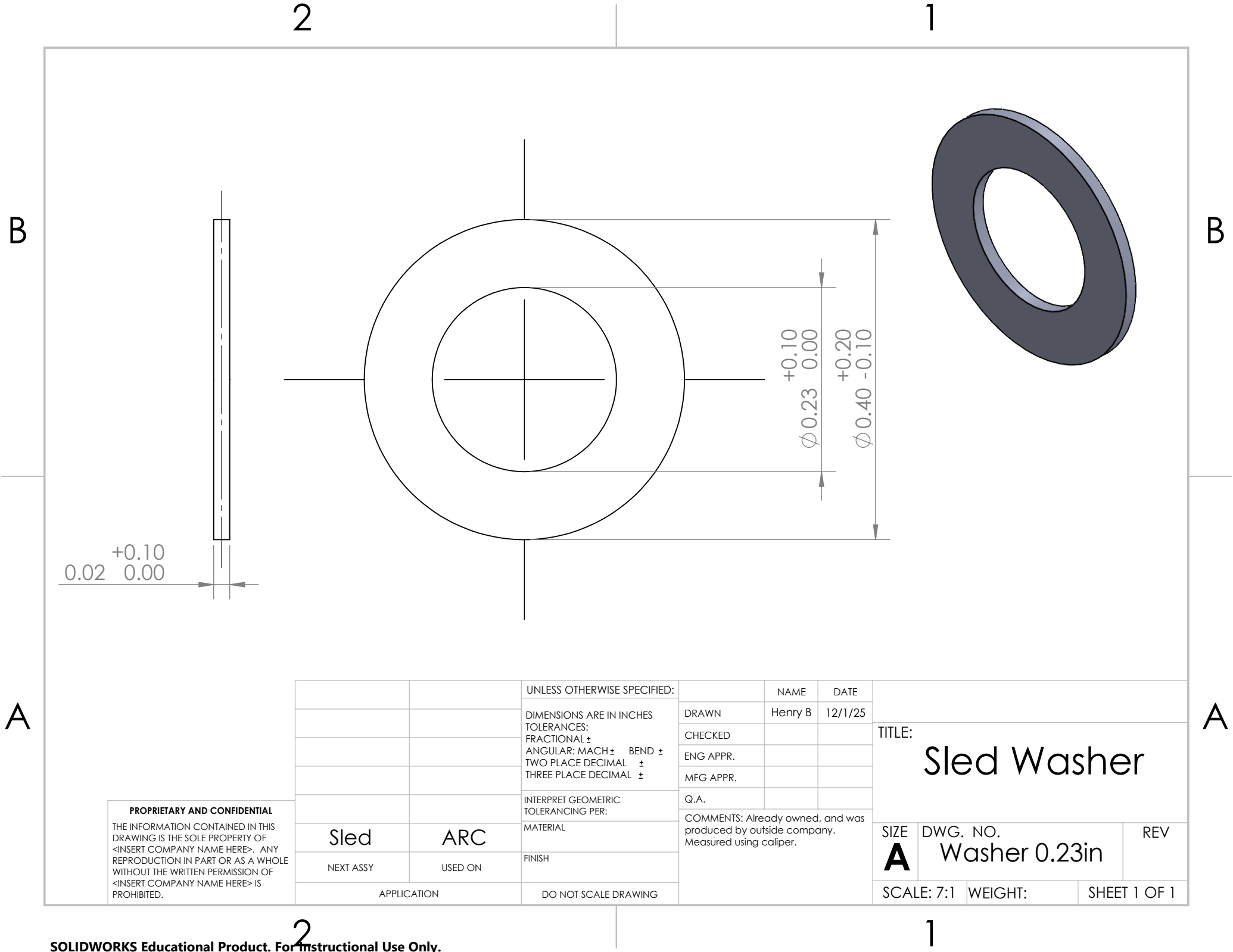
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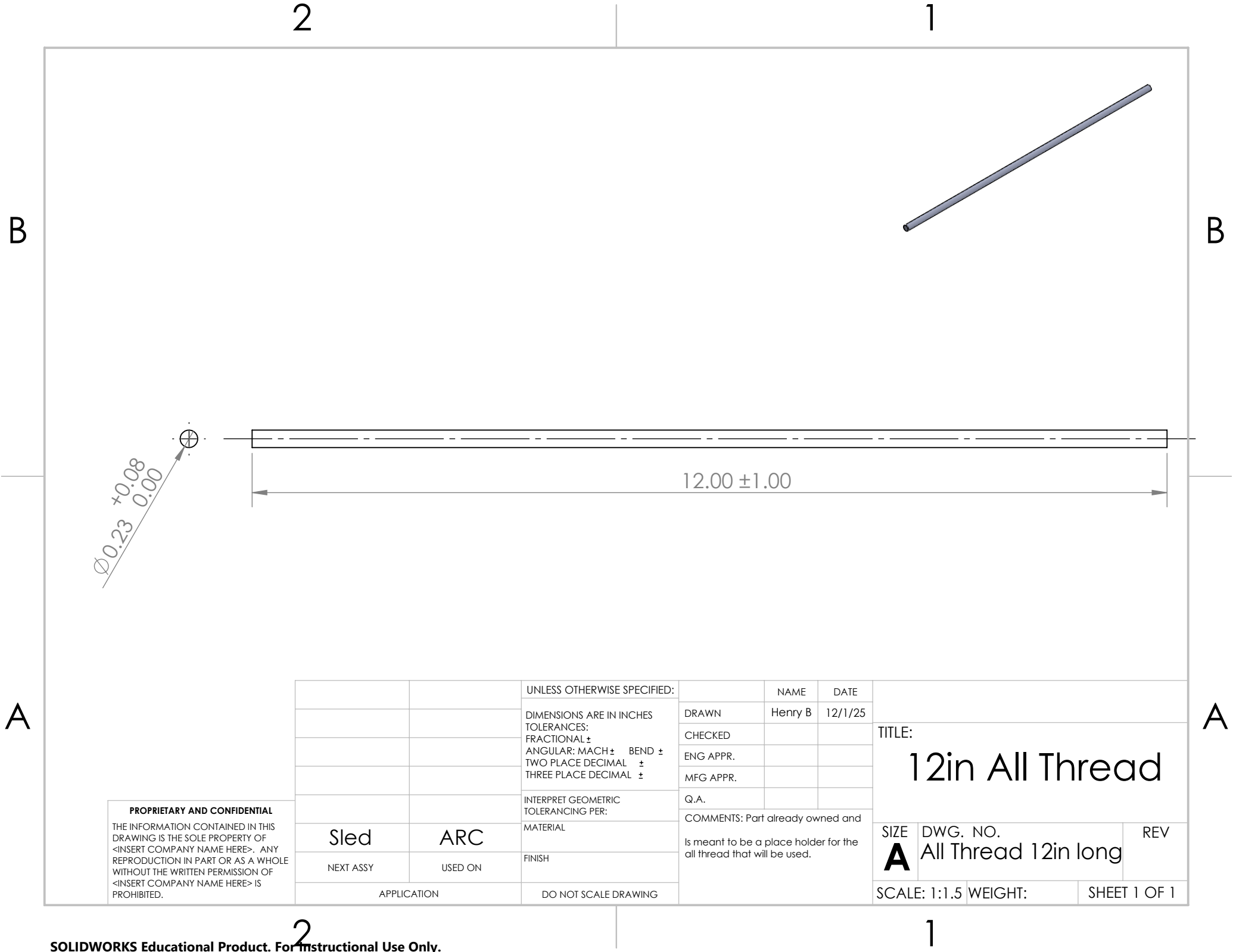
		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC
		TOLERANCING PER:
Motor	ARC	MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	Henry B	12/4/2025
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
38 mm Motor Tube		
SIZE	DWG. NO.	REV
A	Motor Tube 38mm 16in long	
SCALE: 1:3	WEIGHT:	SHEET 1 OF 1







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2

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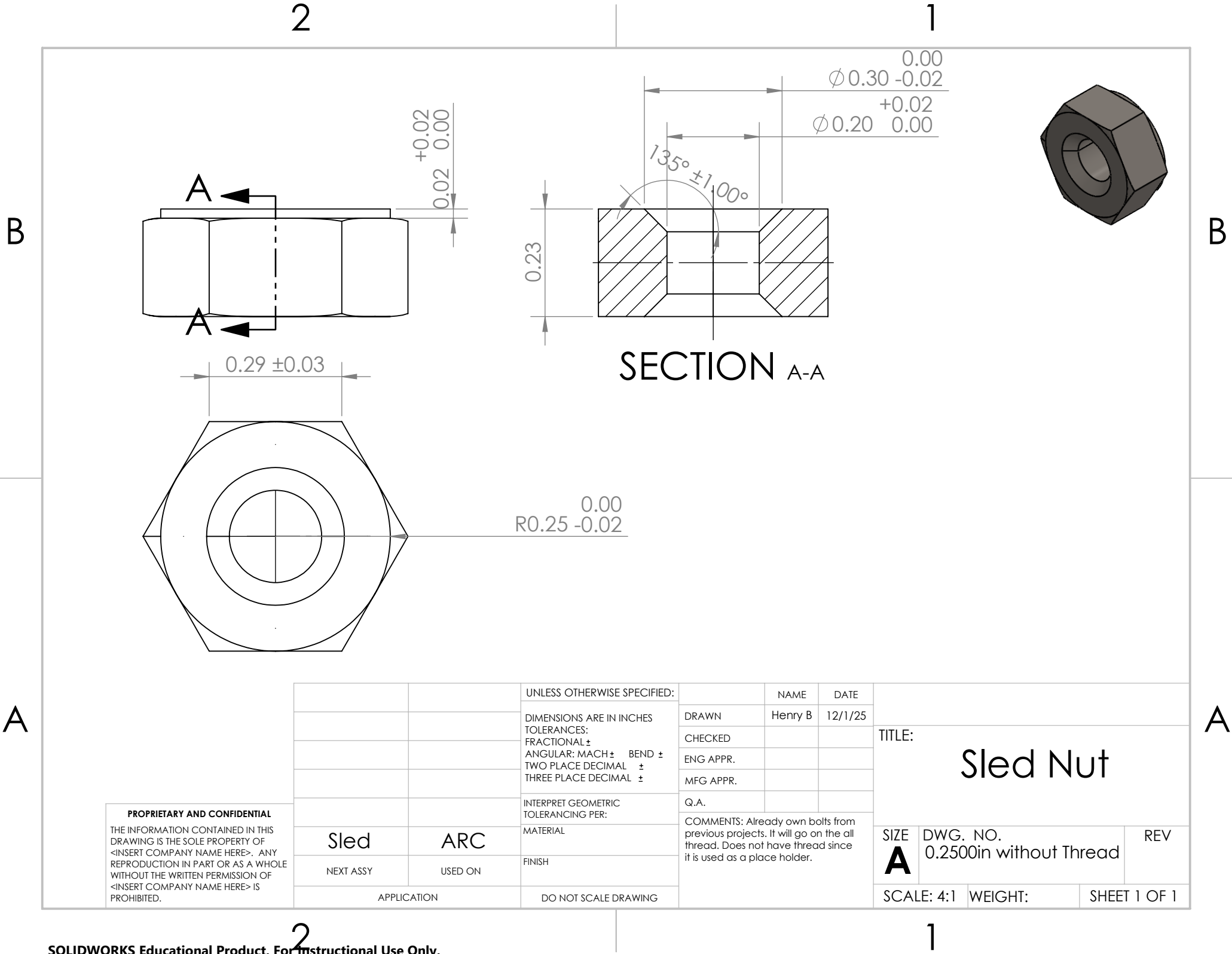
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS: Part already owned and		
		INTERPRET GEOMETRIC	Is meant to be a place holder for the		
		TOLERANCING PER:	all thread that will be used.		
		MATERIAL			
Sled	ARC	FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

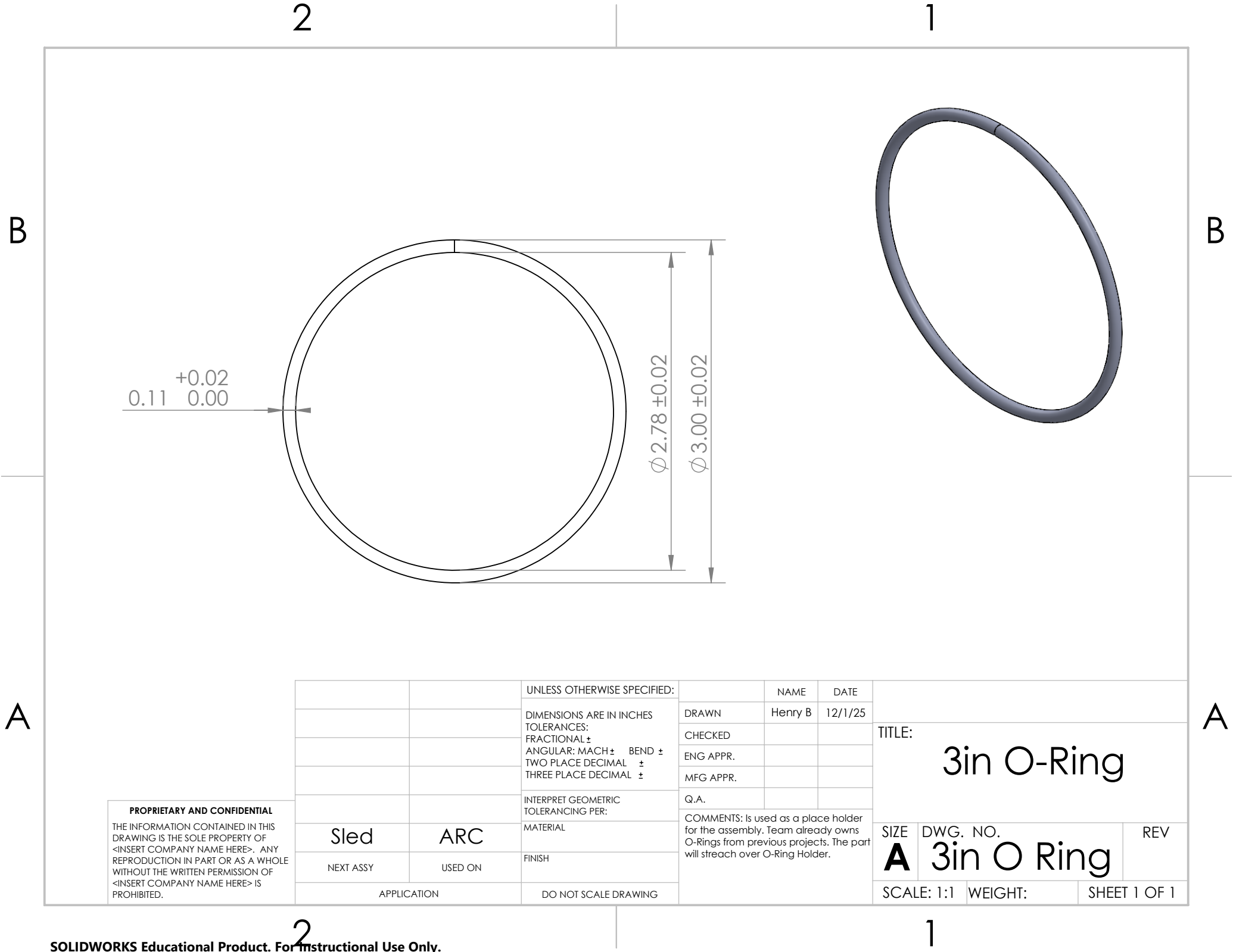
TITLE:		
12in All Thread		
SIZE	DWG. NO.	REV
A	All Thread 12in long	
SCALE: 1:1.5	WEIGHT:	SHEET 1 OF 1



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25
		TOLERANCES:	CHECKED		
		FRACTIONAL \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS: Already own bolts from previous projects. It will go on the all thread. Does not have thread since it is used as a place holder.		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
Sled	ARC				
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:			
Sled Nut			
SIZE	DWG. NO.	REV	
A	0.2500in without Thread		
SCALE: 4:1	WEIGHT:	SHEET 1 OF 1	



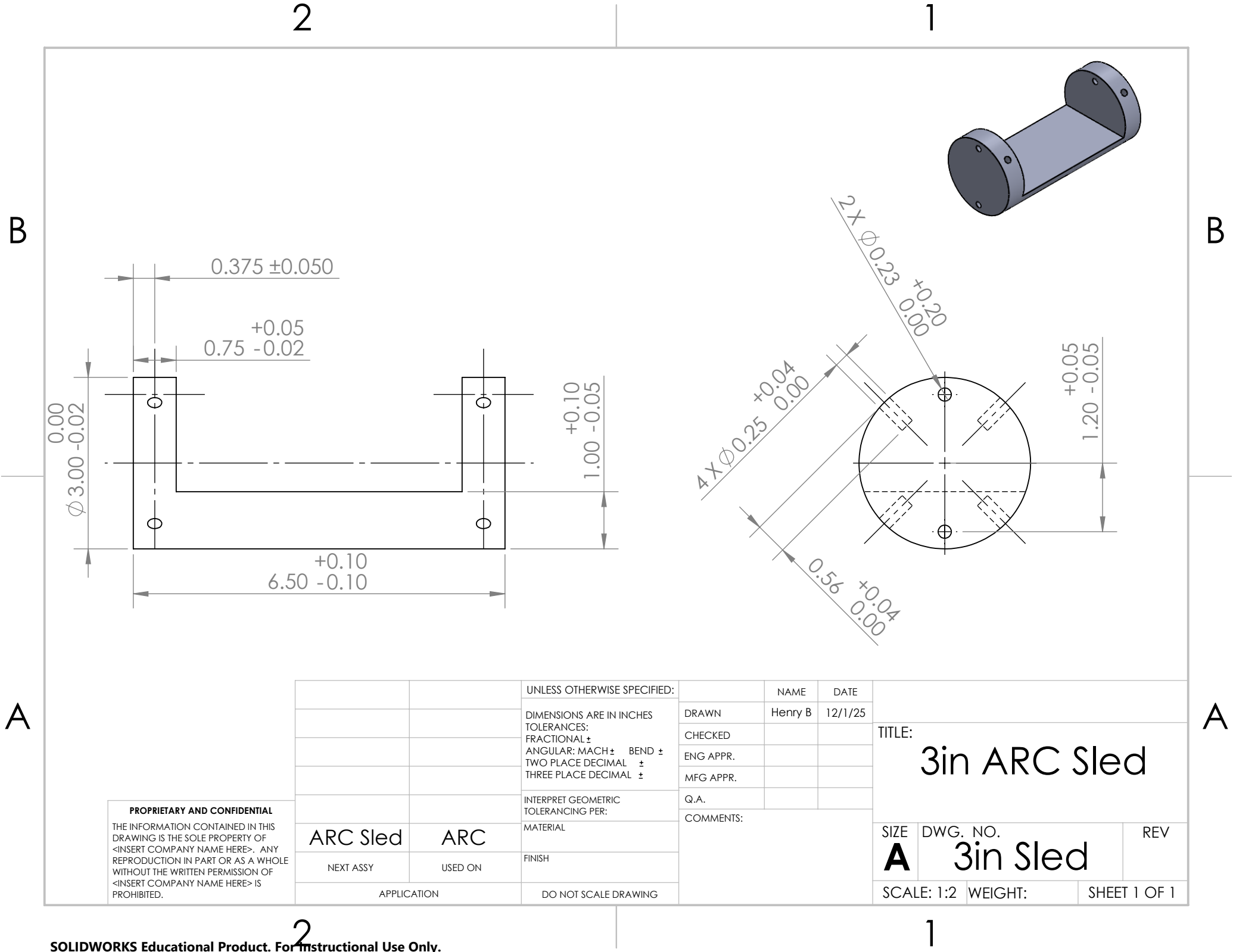
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS: Is used as a place holder for the assembly. Team already owns O-Rings from previous projects. The part will stretch over O-Ring Holder.		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
Sled	ARC				
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE: 3in O-Ring			SIZE	DWG. NO.	REV
			A	3in O Ring	
SCALE: 1:1		WEIGHT:	SHEET 1 OF 1		

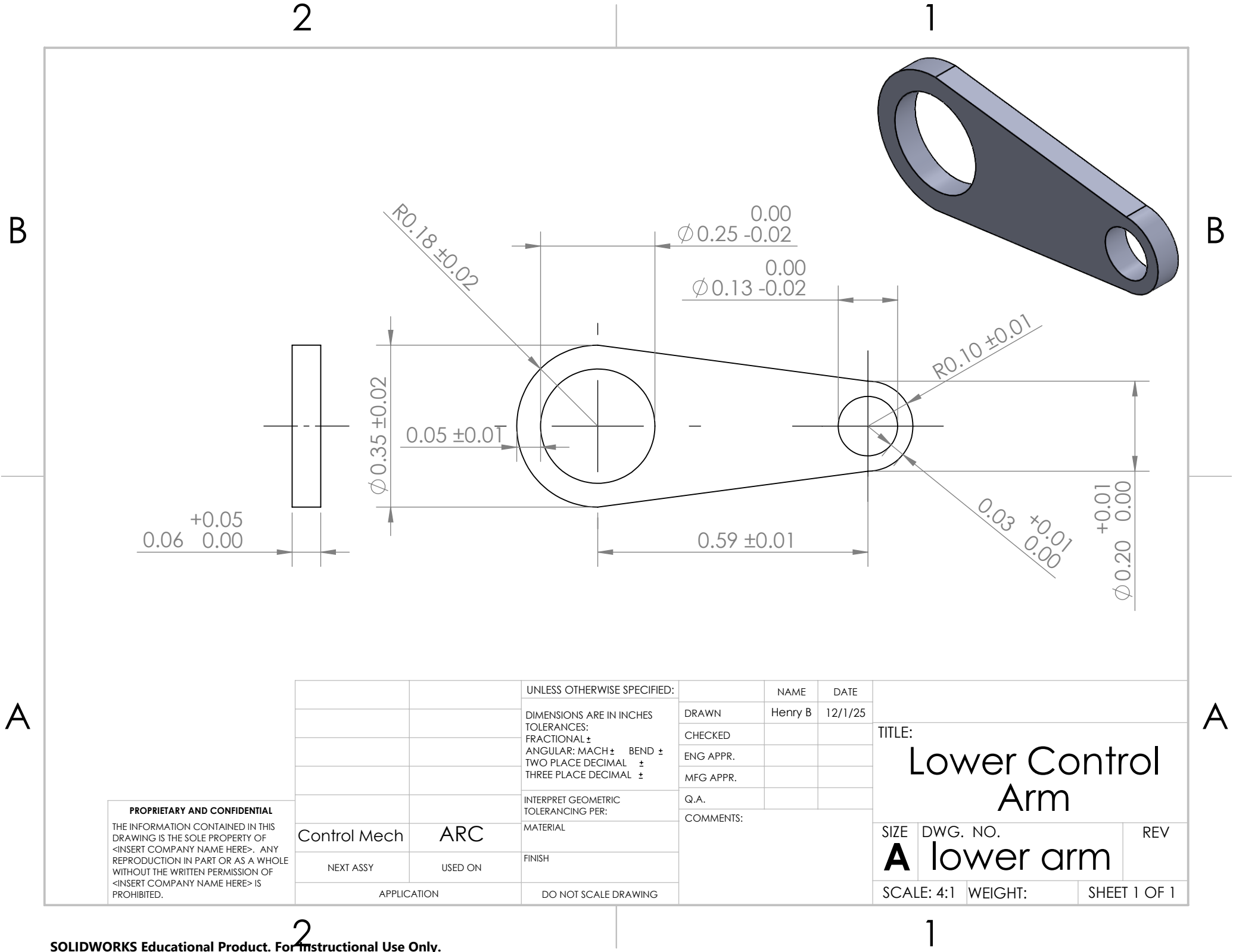


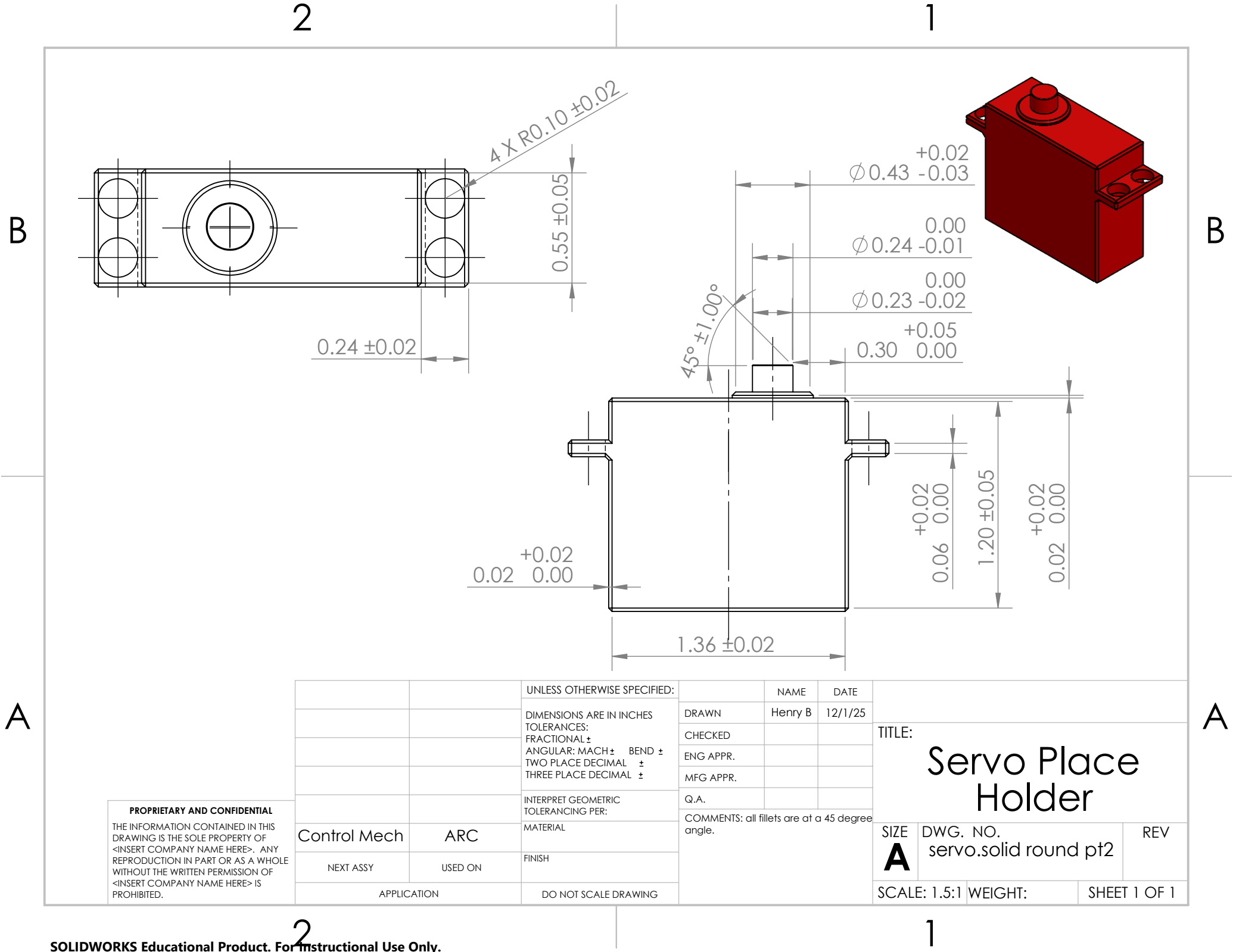
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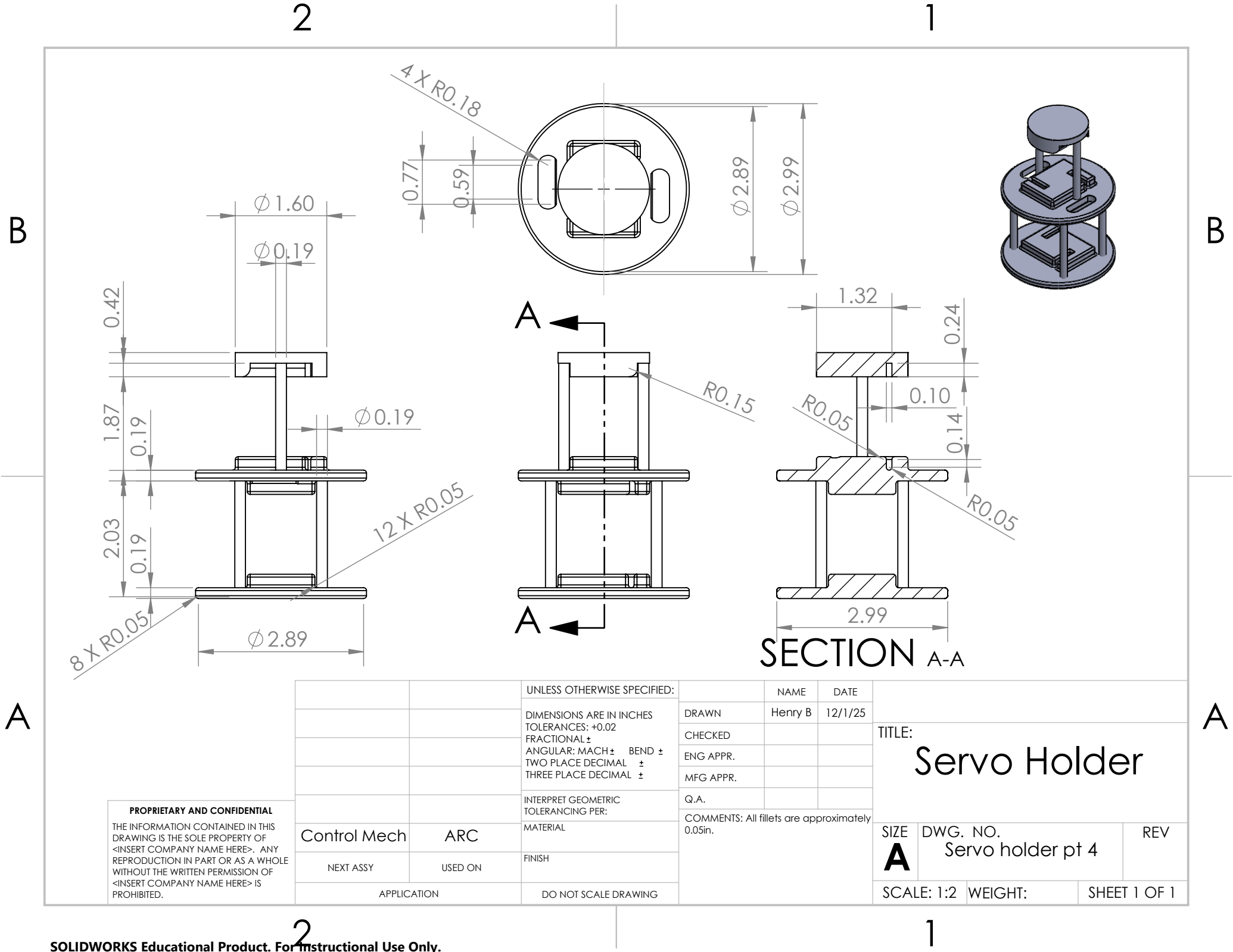
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: 3in ARC Sled		
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE DWG. NO. REV A 3in Sled		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:					
ARC Sled	ARC	FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:2	WEIGHT:	SHEET 1 OF 1





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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <h1>Servo Place Holder</h1>			
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25				
		TOLERANCES:	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ± BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±	Q.A.						
		THREE PLACE DECIMAL ±	COMMENTS: all fillets are at a 45 degree angle.						
Control Mech	ARC	MATERIAL				SIZE	DWG. NO.	REV	
NEXT ASSY	USED ON	FINISH				A	servo.solid round pt2		
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1.5:1		WEIGHT:	SHEET 1 OF 1



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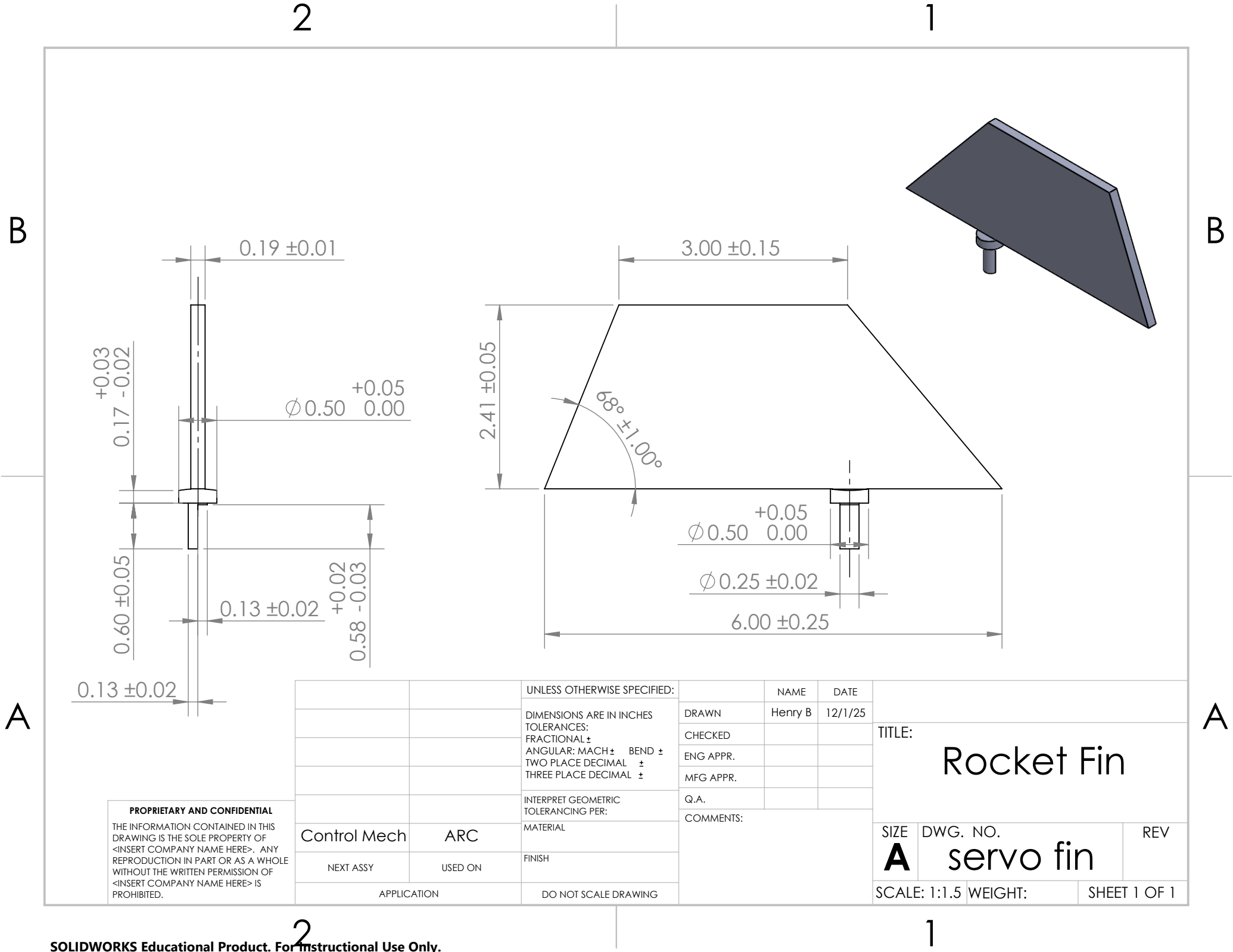
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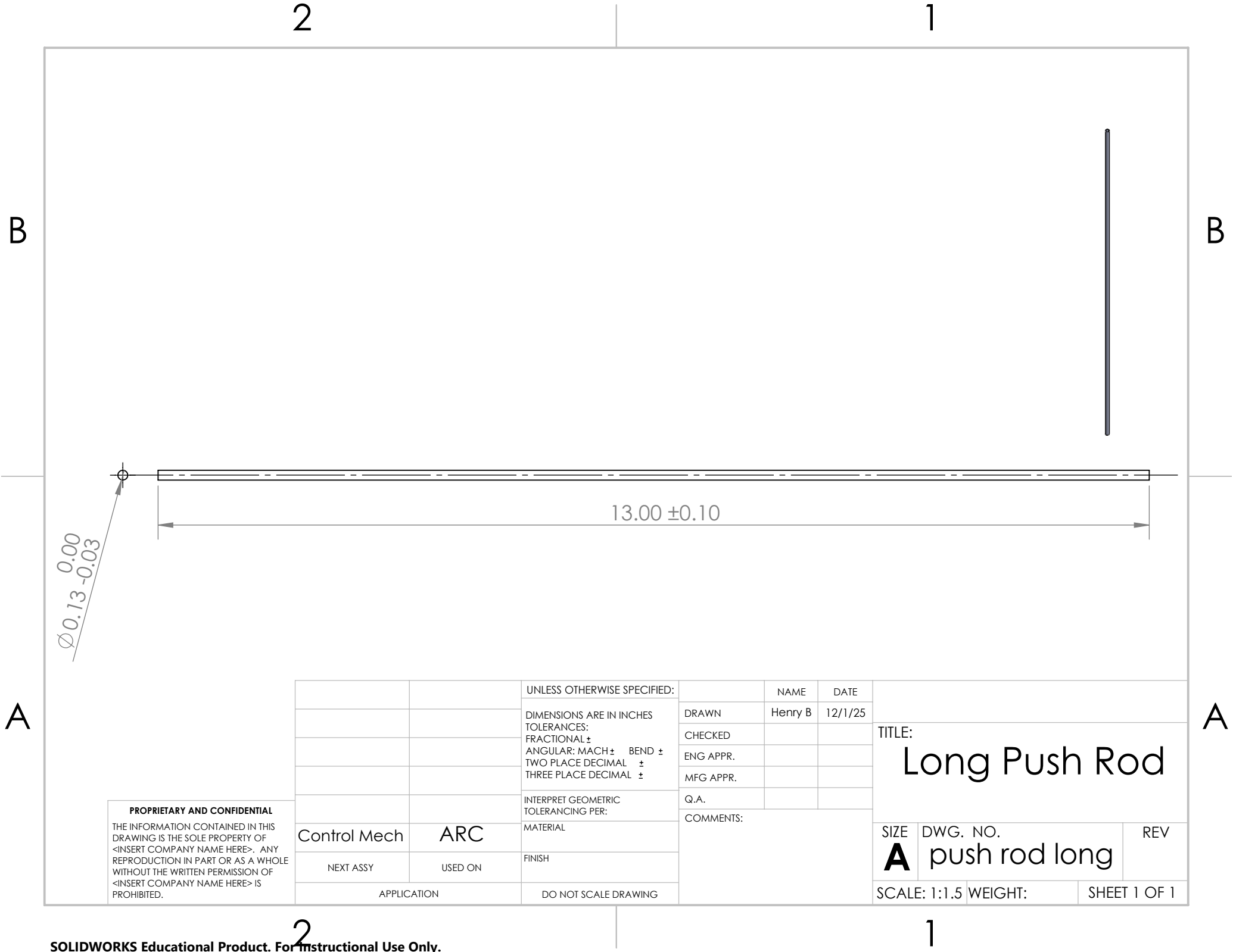
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: +0.02 FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	Henry B	12/1/25
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
Control Mech	ARC	MATERIAL	COMMENTS: All fillets are approximately 0.05in.		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

Servo Holder

SIZE	DWG. NO.	REV
A	Servo holder pt 4	
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1





B

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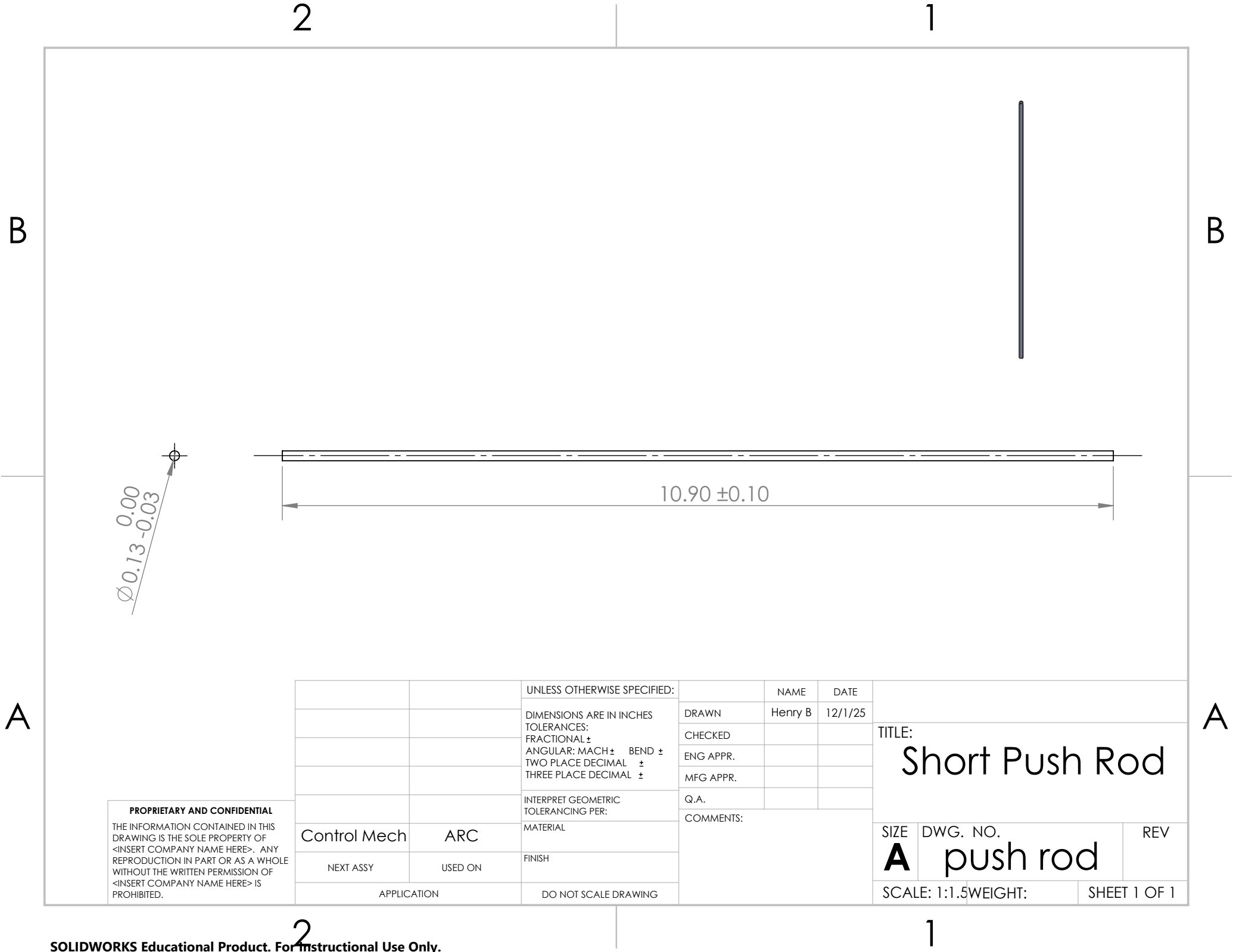
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25
		TOLERANCES:	CHECKED		
		FRACTIONAL \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
Control Mech	ARC	MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:			
Long Push Rod			
SIZE	DWG. NO.	REV	
A	push rod long		
SCALE: 1:1.5	WEIGHT:	SHEET 1 OF 1	



Ø 0.13 0.00
-0.03

10.90 ±0.10

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC			
		TOLERANCING PER:			
Control Mech	ARC	MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

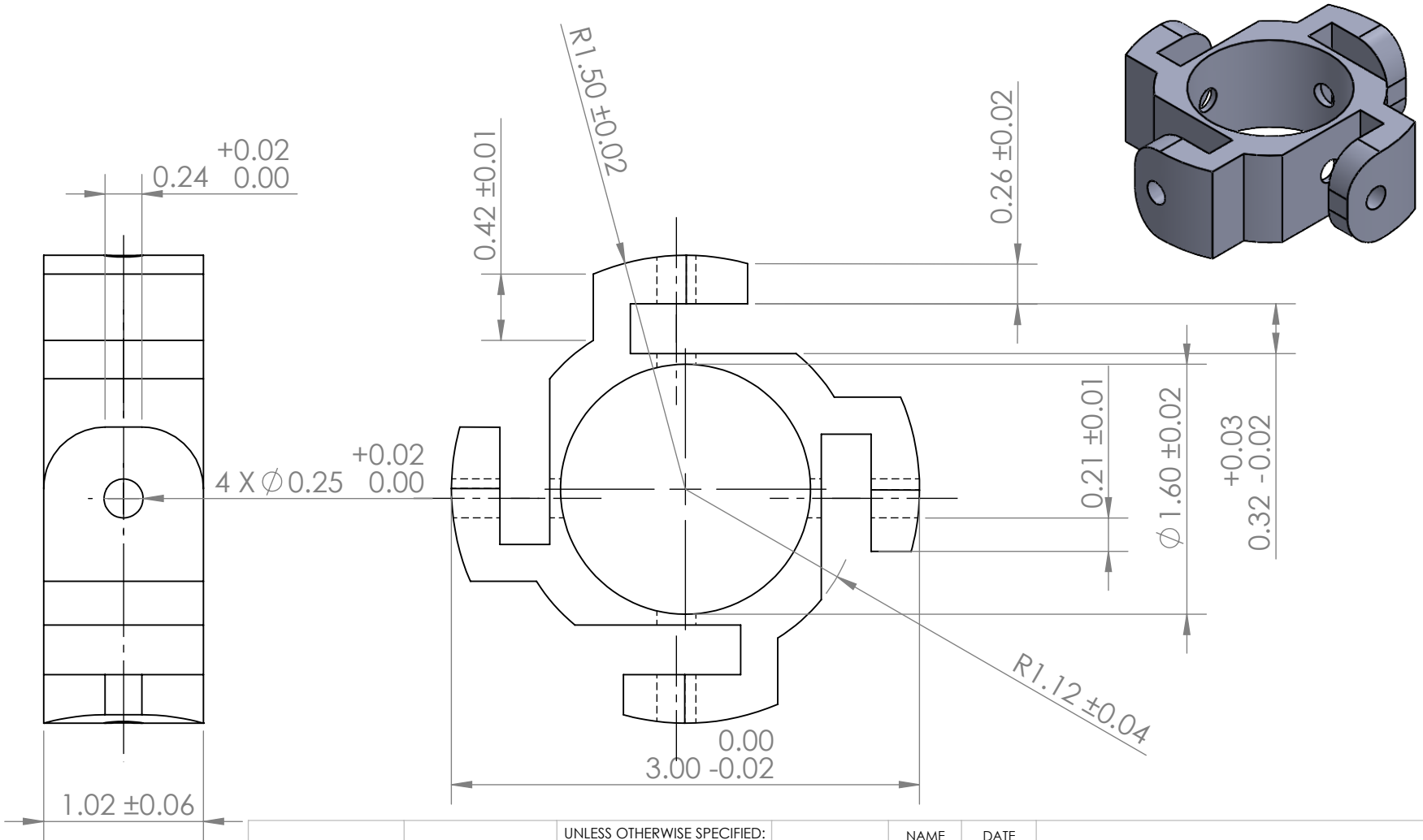
TITLE:		
Short Push Rod		
SIZE	DWG. NO.	REV
A	push rod	
SCALE: 1:1.5		WEIGHT:
		SHEET 1 OF 1

B

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Lower Control Mechanism	
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25		
		TOLERANCES:	CHECKED				
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±	Q.A.			SIZE	DWG. NO.
		THREE PLACE DECIMAL ±	COMMENTS:			A	lower
Control Mech	ARC	INTERPRET GEOMETRIC TOLERANCING PER:				REV	
NEXT ASSY	USED ON	MATERIAL				SCALE: 1:1	WEIGHT:
		FINISH				SHEET 1 OF 1	
APPLICATION		DO NOT SCALE DRAWING					

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R0.10 $\begin{smallmatrix} +0.02 \\ 0.00 \end{smallmatrix}$

$\phi 0.13$ $\begin{smallmatrix} +0.02 \\ 0.00 \end{smallmatrix}$

$\begin{smallmatrix} +0.02 \\ 0.13 -0.03 \end{smallmatrix}$

0.09 ± 0.01

0.28 ± 0.02

0.07 ± 0.01

$\phi 0.10$ $\begin{smallmatrix} +0.02 \\ 0.00 \end{smallmatrix}$

$\phi 0.10$ $\begin{smallmatrix} +0.02 \\ 0.00 \end{smallmatrix}$

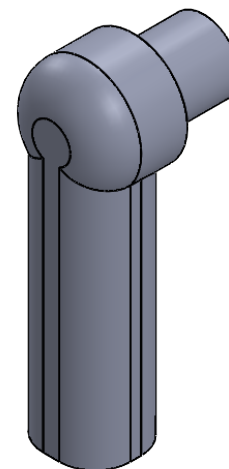
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$\begin{smallmatrix} +0.02 \\ 0.44 0.00 \end{smallmatrix}$

$\begin{smallmatrix} +0.02 \\ 0.13 0.00 \end{smallmatrix}$

$\begin{smallmatrix} +0.05 \\ 0.50 0.00 \end{smallmatrix}$



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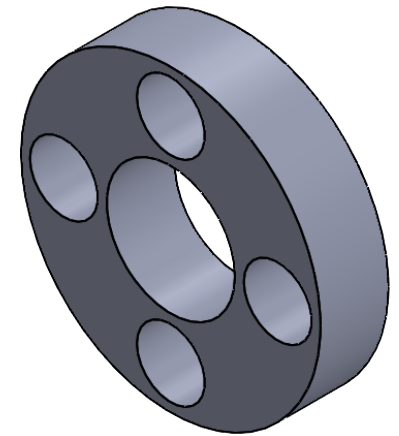
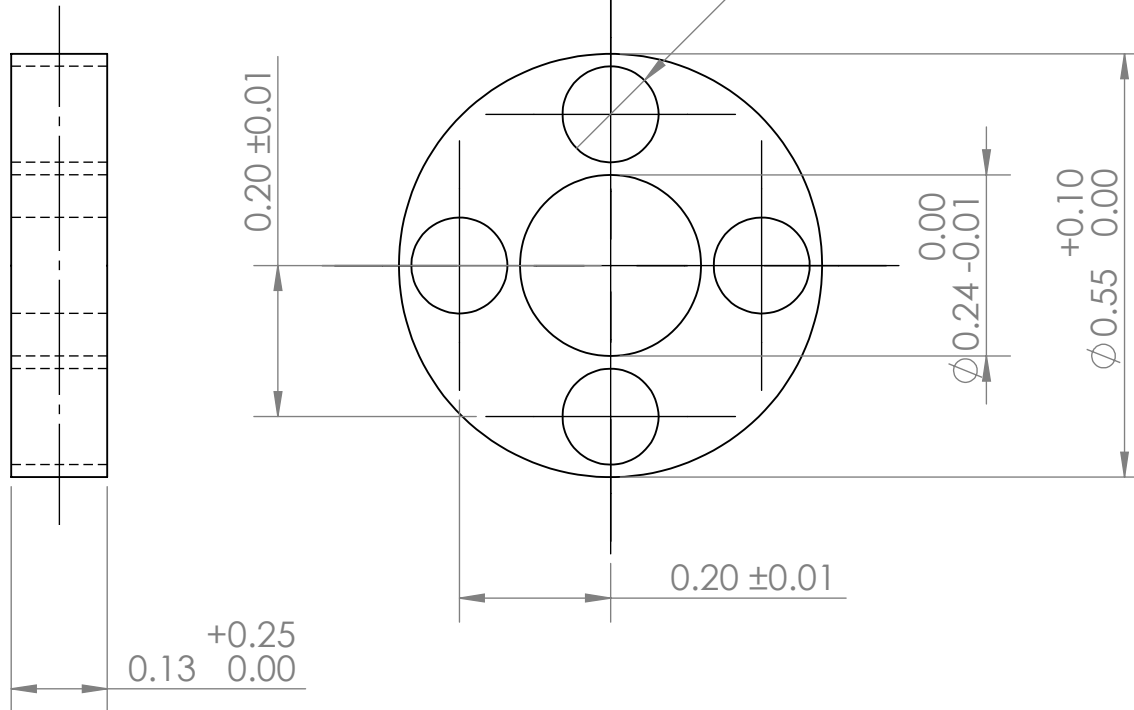
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <h>Control Rod Holder</h>		
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25			
		TOLERANCES: FRACTIONAL ±	CHECKED					
		ANGULAR: MACH ± BEND ±	ENG APPR.					
		TWO PLACE DECIMAL ±	MFG APPR.					
		THREE PLACE DECIMAL ±				SIZE DWG. NO. REV A rod holder		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:					
Control Mech	ARC					SCALE: 4:1 WEIGHT: SHEET 1 OF 1		
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING						

B

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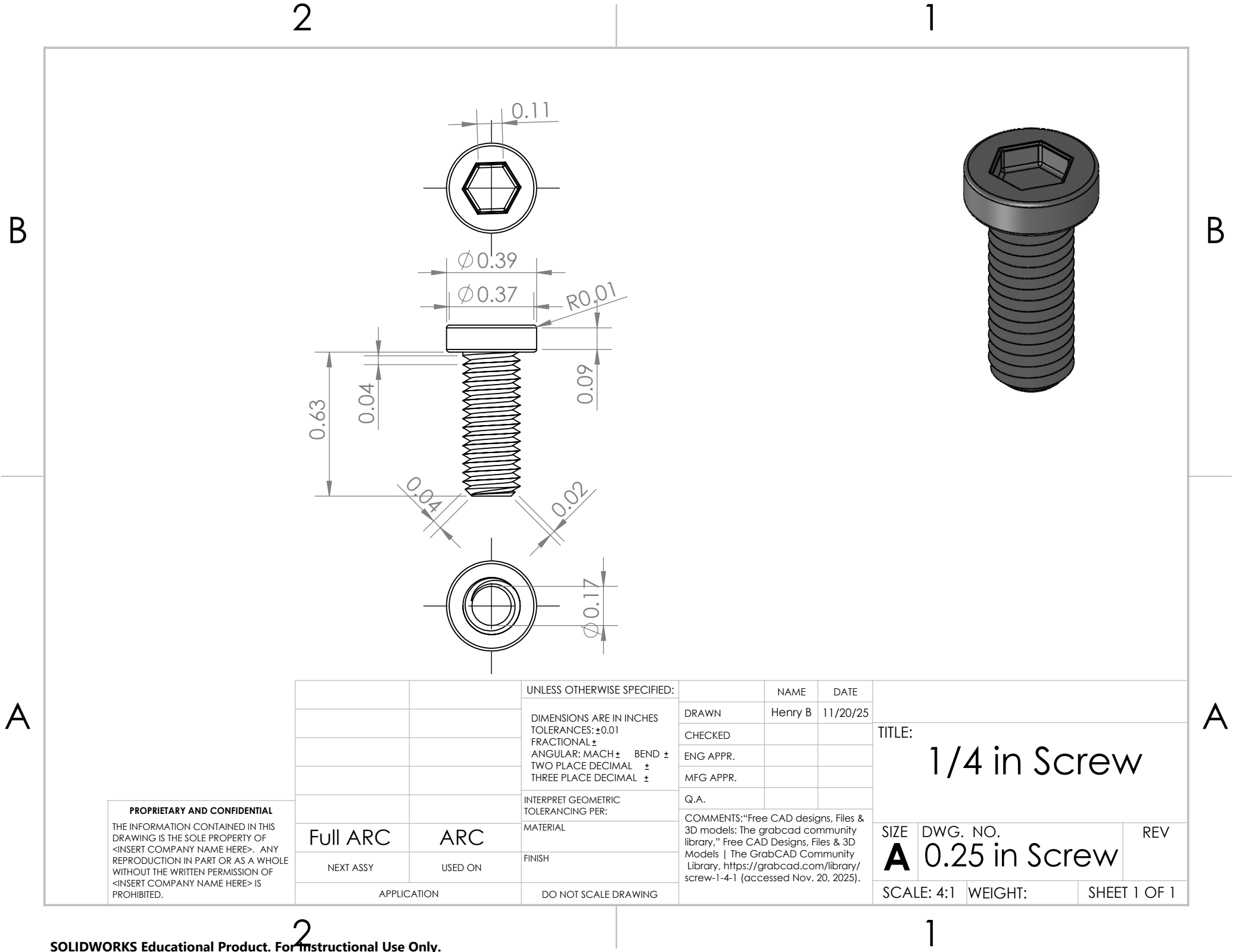
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>Upper Gear Round</div>			
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	12/1/25				
		TOLERANCES:	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ± BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±				SIZE A DWG. NO. REV Upper gear round.pt			
		THREE PLACE DECIMAL ±	Q.A.						
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:						
Control Mech	ARC	MATERIAL							
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 4:1 WEIGHT: SHEET 1 OF 1			



B

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Henry B	11/20/25
		TOLERANCES: ± 0.01	CHECKED		
		FRACTIONAL \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS: "Free CAD designs, Files & 3D models: The grabcad community library;" Free CAD Designs, Files & 3D Models The GrabCAD Community Library, https://grabcad.com/library/screw-1-4-1 (accessed Nov. 20, 2025).		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
Full ARC	ARC				
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:				1/4 in Screw	
SIZE	DWG. NO.			REV	
A	0.25 in Screw				
SCALE: 4:1		WEIGHT:		SHEET 1 OF 1	