## Team #1 Fabrication Package

By:

Jaclyn Edison

Tristan Linn

David Galeas

Cristian De La Cerda

Prepared for:

Dr. Oziel Rios

Computer Aided Design

The University of Texas at Dallas

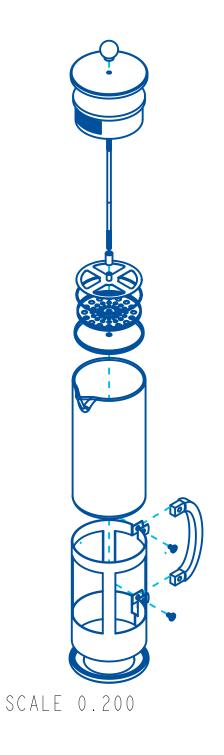
MECH 3305.0W2

December 3, 2021

Description: French press- a mechanism for brewing coffee allowing the water to flow through layers of filters while keeping coffee grounds contained underneath

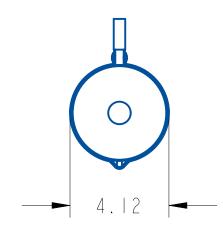
## Bill of Materials:

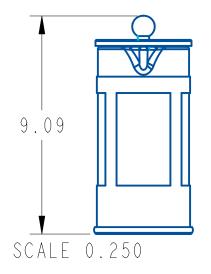
Item	Name	QTY	MATERIAL	DESCRIPTION
1	Glass Beaker	1	GLASS	Machined: UTD Machine Shop
2	Divider Gear	1	ALUMINUM	Machined: UTD Machine Shop
3	Fine Sieve	1	ALUMINUM	Machined: UTD Machine Shop
4	Coarse Sieve	1	ALUMINUM	Machined: UTD Machine Shop
5	Metal Cap Cover	1	ALUMINUM	Machined: UTD Machine Shop
6	Plastic Cap	1	PLASTIC	Machined: UTD Machine Shop
7	Lid Knob	1	PLASTIC	Machined: UTD Machine Shop
8	Threaded Shaft	1	STEEL	Purchased: McMaster-Carr (6516K117-\$7.74)
9	Thread Connector	1	ALUMINUM	Machined: UTD Machine Shop
10	Handle Screw	4	STEEL	Purchased: McMaster-Carr (98002A311-\$6.84)
11	Spring	1	STEEL	Purchased: McMaster-Carr (9017N32 - \$4.43 each)
12	Metal Holding Structure	1	ALUMINUM	Machined: UTD Machine Shop
13	Handle	1	PLASTIC	Machined: UTD Machine Shop
14	Rubber Press Bottom	1	RUBBER	Machined: UTD Machine Shop

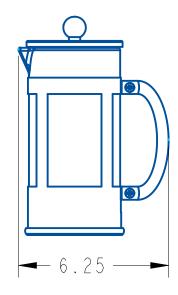




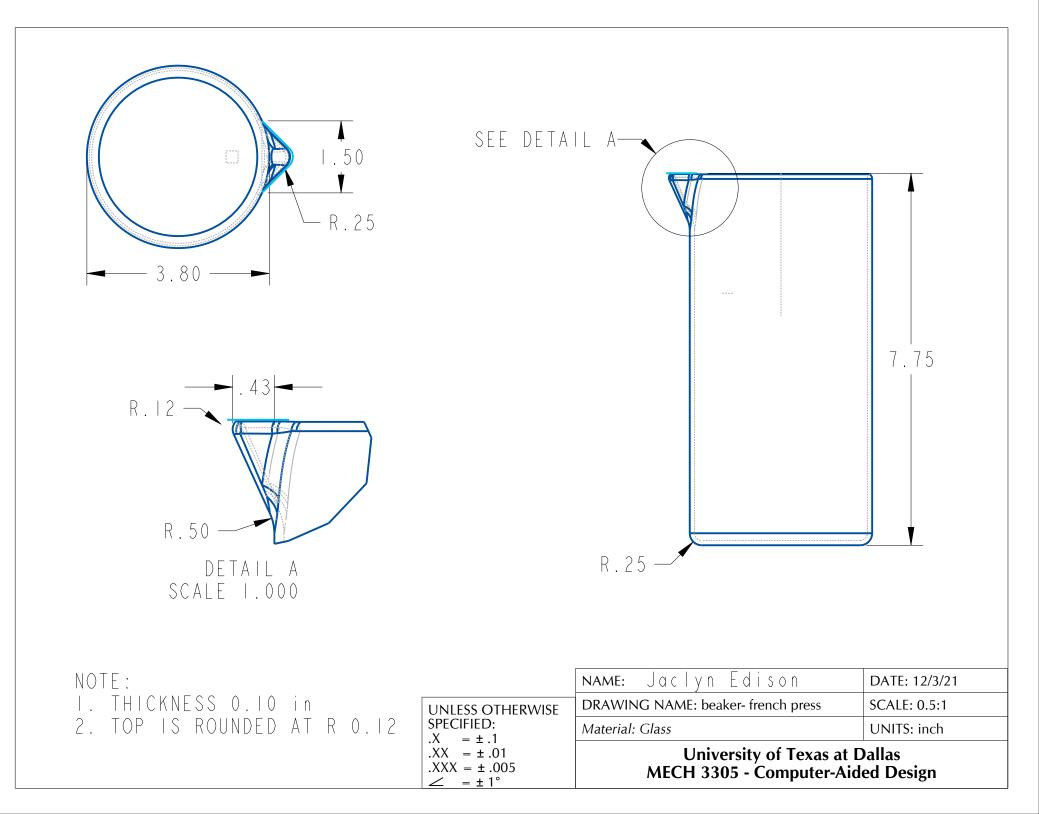
	NAME: Team 1: JE, TL, CD, DG	DATE: 12/05/21	
UNLESS OTHERWISE	DRAWING NAME: French Press (Page 1/2)	SCALE: 1:5	
SPECIFIED: $X = \pm .1$	Assembly of French Press Exploded View	UNITS: Inch	
$\begin{array}{rcl} XX &= \pm .01\\ XXX &= \pm .005\\ \swarrow &= \pm 1^{\circ} \end{array}$	University of Texas at Dallas MECH 3305 - Computer-Aided Design		

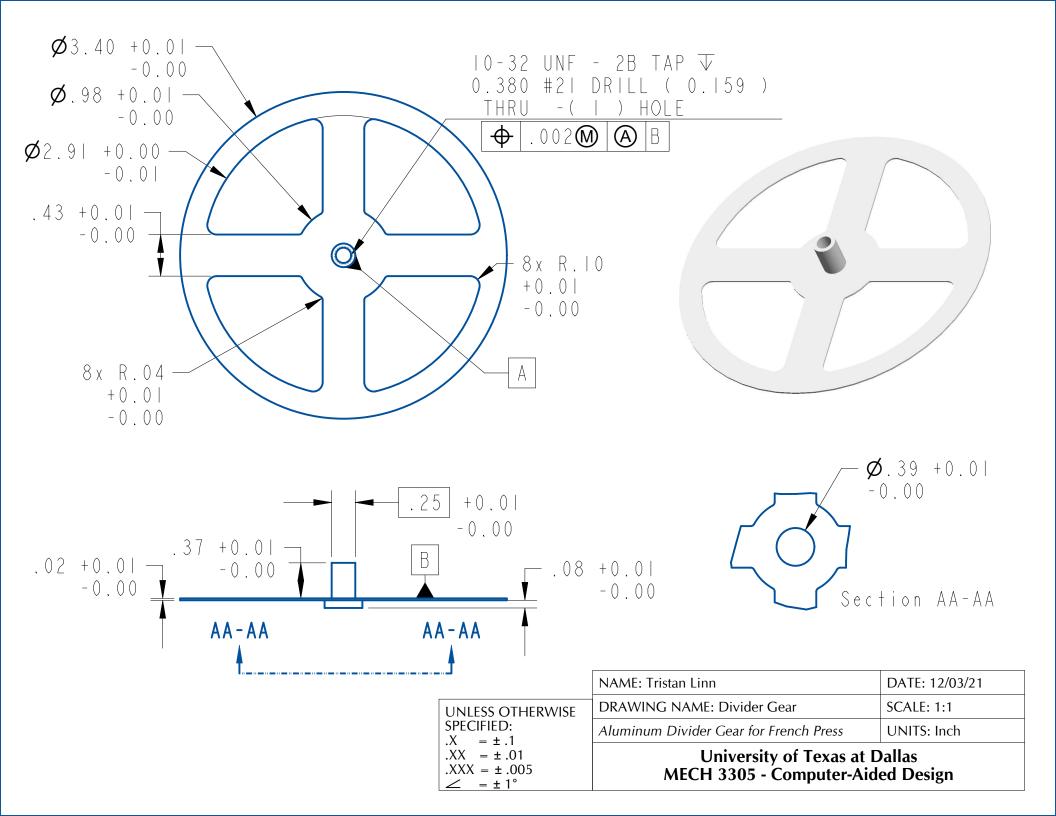


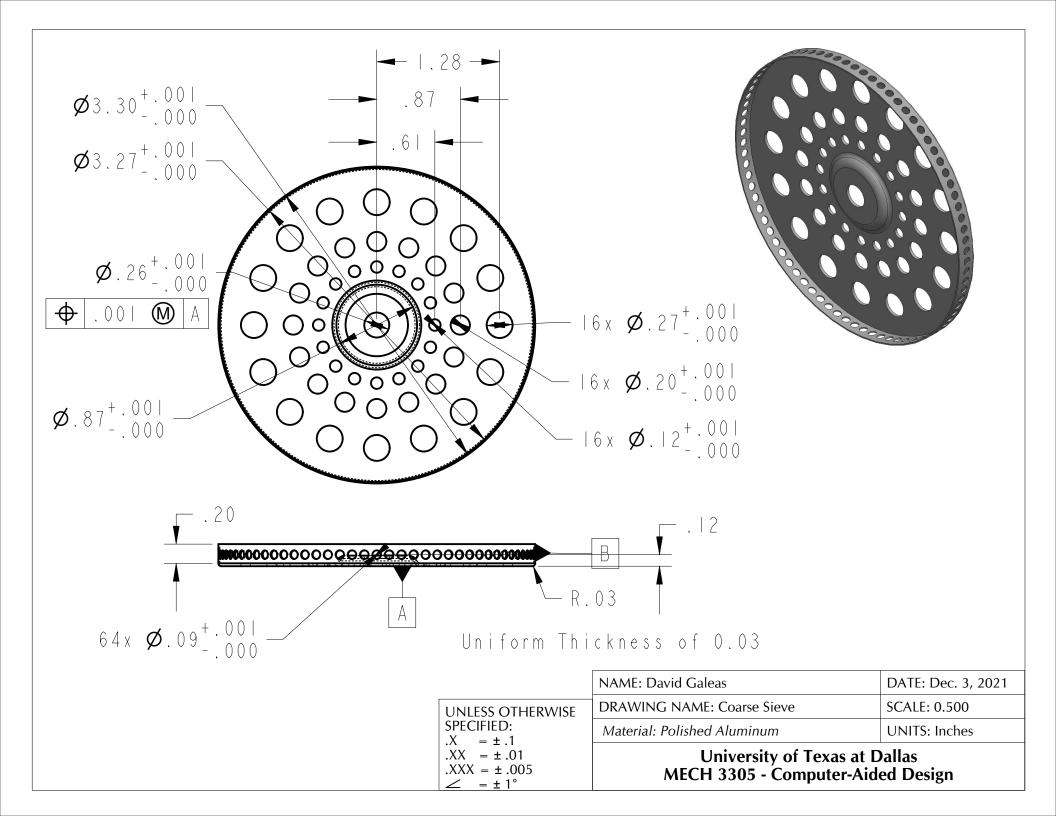


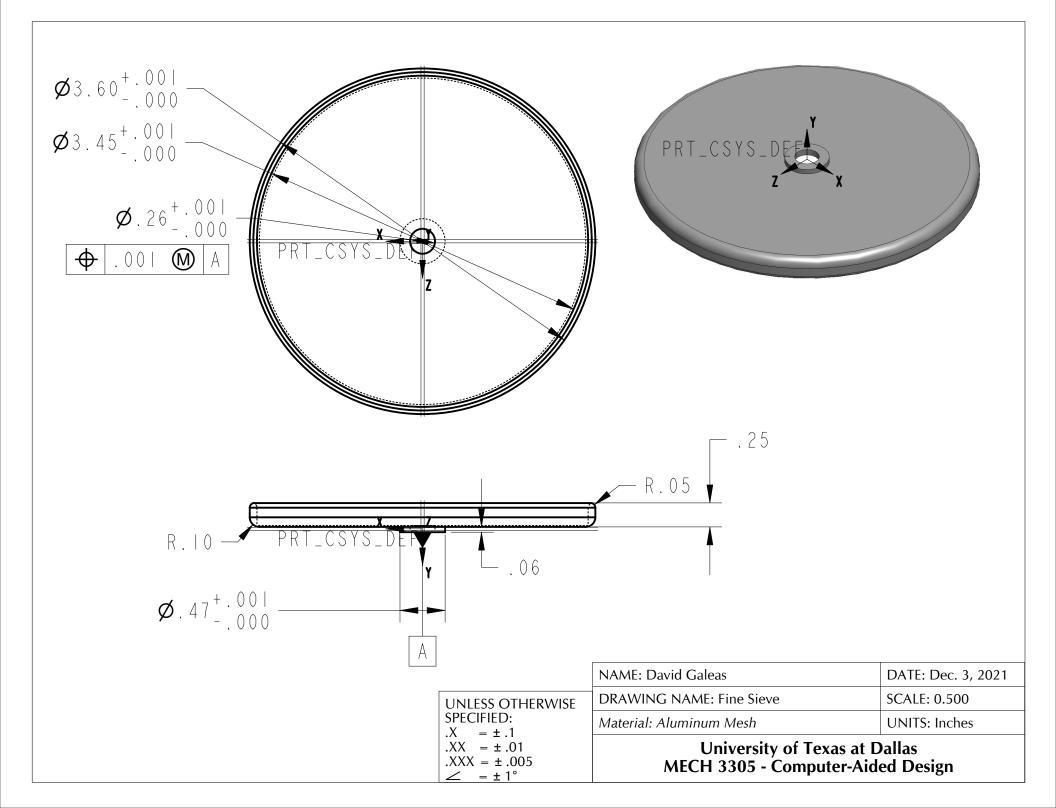


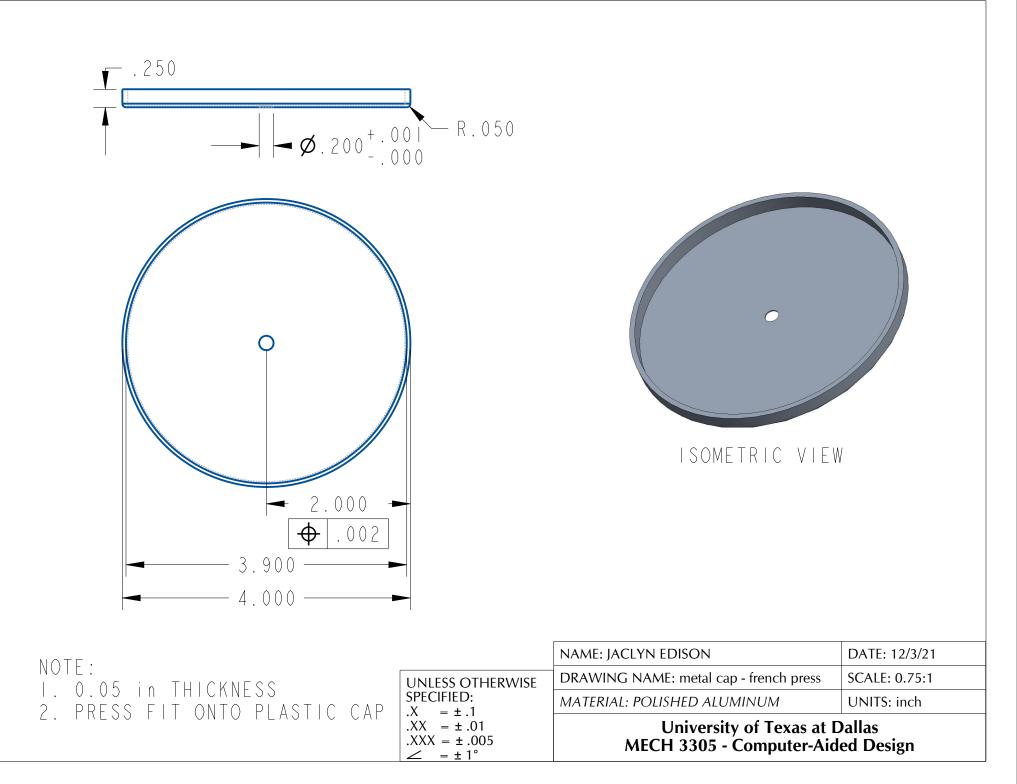
$XX = \pm .01$ $XXX = \pm .005$ $\angle = \pm 1^{\circ}$	University of Texas at Dallas MECH 3305 - Computer-Aided Design		
SPECIFIED: $X = \pm .1$	Assembly of French Press Standard View	UNITS: Inch	
UNLESS OTHERWISE	DRAWING NAME: French Press (Page 2/2)	SCALE: 1:4	
	NAME: Team 1 JE, TL, CD, DG	DATE: 12/05/21	

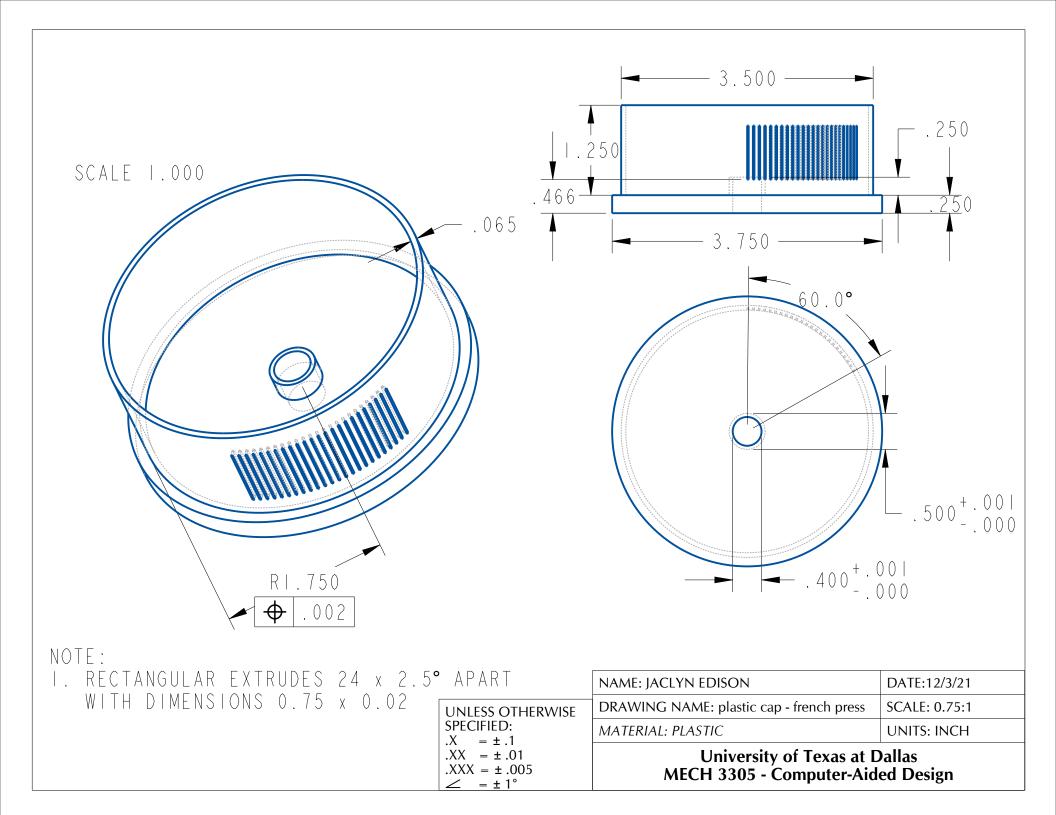


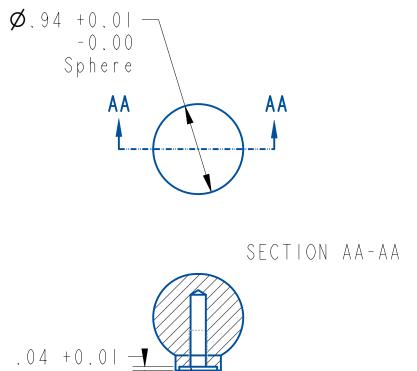




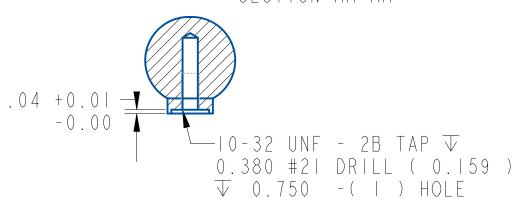


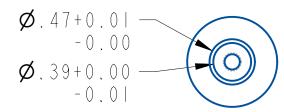




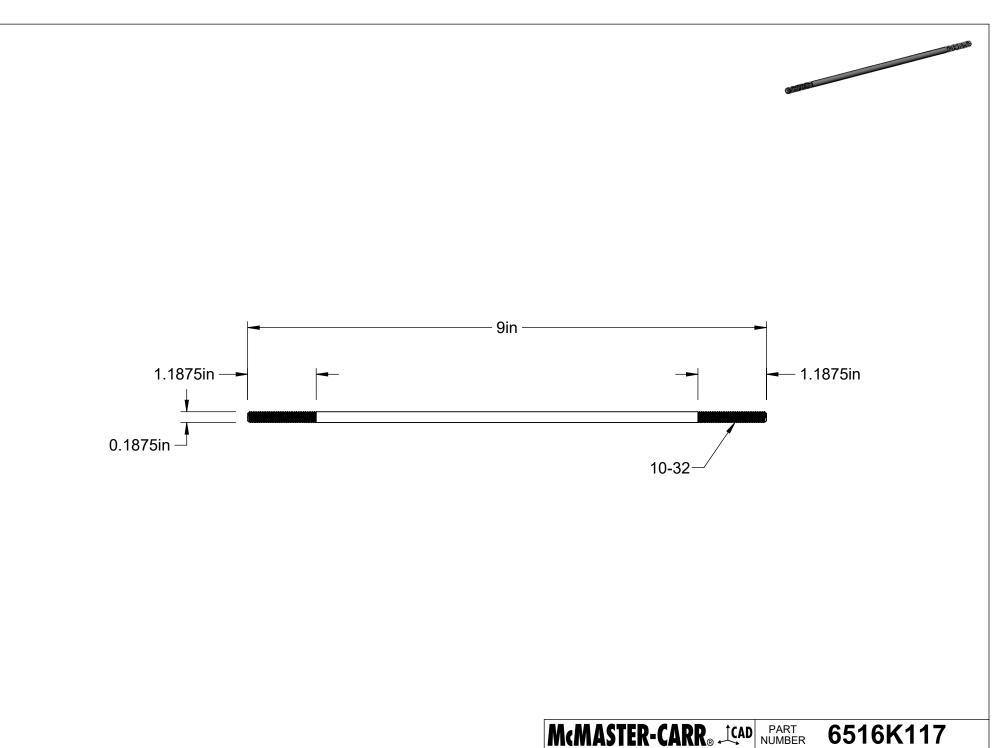




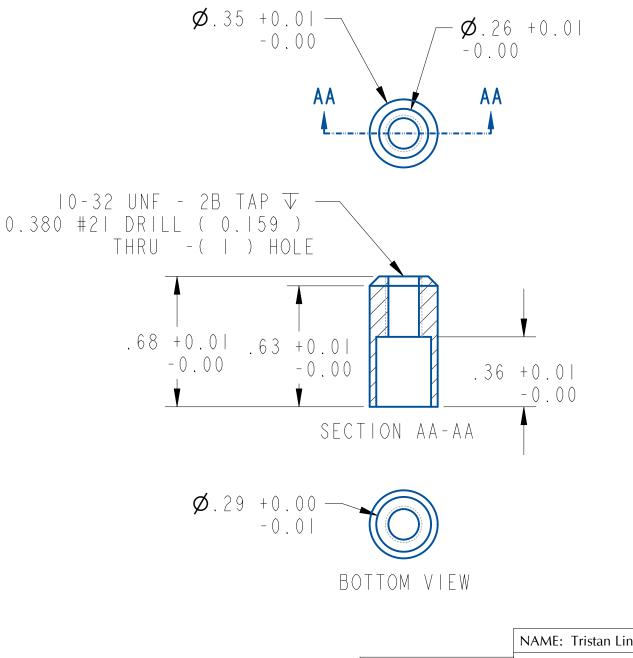




	NAME: Tristan Linn	DATE: 12/03/21	
UNLESS OTHERWISE	DRAWING NAME: Lid Knob	SCALE: 1:1	
SPECIFIED: $X = \pm .1$	Plastic Lid Knob of French Press	UNITS: Inch	
$XX = \pm .01$ $XXX = \pm .005$ $\angle = \pm 1^{\circ}$	University of Texas at Dallas MECH 3305 - Computer-Aided Design		

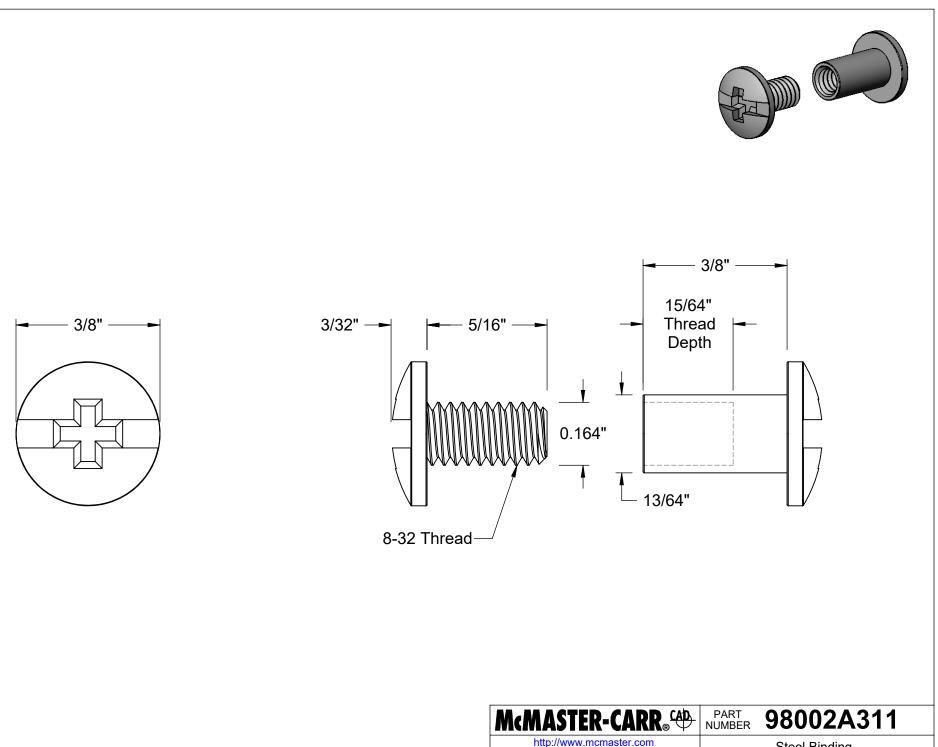


		NUMBER	
	http://www.mcmaster.com		Connecting
© 2021 McMaster-Carr Supply Company		Rod	
	Information in this drawing is provided for reference only.		Rou





Aluminum Thread Connector of French Press UNITS: Inch University of Texas at Dallas MECH 3305 - Computer-Aided Design	
DATE: 12/03/21 SCALE: 1:1	

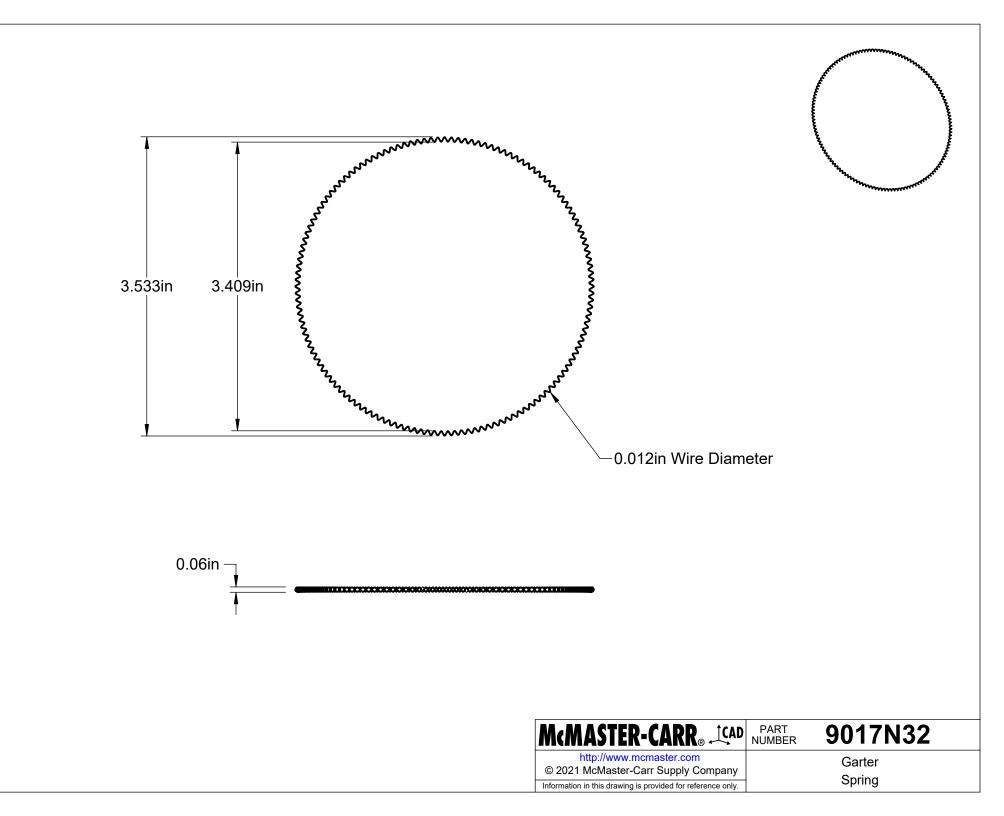


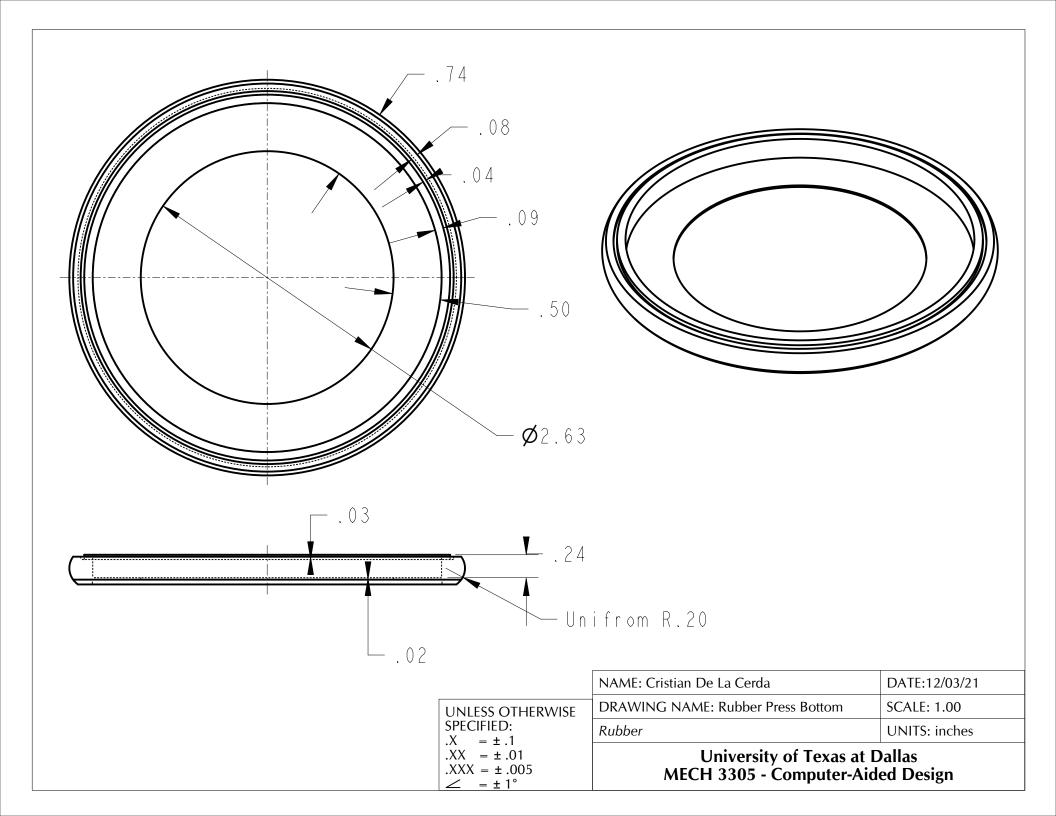
© 2021 McMaster-Carr Supply Company

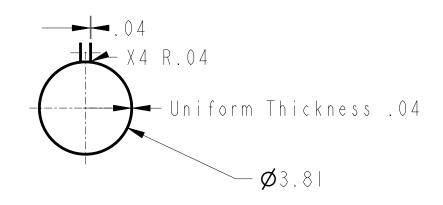
Information in this drawing is provided for reference only.

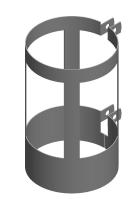
3/8"-1/2" Material Thickness

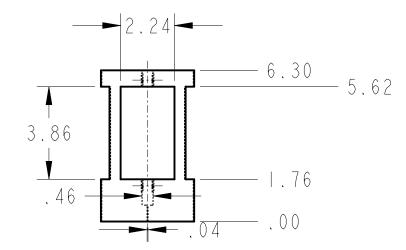
Steel Binding Barrels and Screws

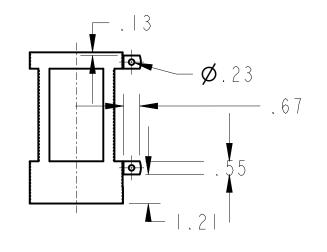












	NAME: Cristian De La Cerda	DATE: 12/03/21	
UNLESS OTHERWISE	DRAWING NAME: Metal Holding Structure	SCALE: 0.250	
SPECIFIED: $X = \pm .1$	Aluminum	UNITS: inches	
$\begin{array}{rcl} .X & -\pm .1 \\ .XX & =\pm .01 \\ .XXX & =\pm .005 \\ \swarrow & =\pm 1^{\circ} \end{array}$	University of Texas at Dallas MECH 3305 - Computer-Aided Design		

