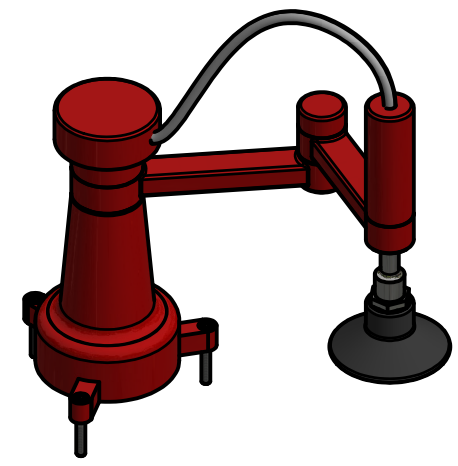


ROBOTIC ARM EXPLODED ASSEMBLY
SCALE 1 / 2

GENERAL NOTES:
 ALL FILLETS ARE .06in UNLESS OTHERWISE SPECIFIED
 ALL CHAMFERS ARE .02 X 45° UNLESS OTHERWISE SPECIFIED

PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION
1	1	BASE E-01	ALUMINUM	
2	1	ARM E-01	ALUMINUM	
3	1	ARM E-02	ALUMINUM	
4	1	BASE CAP	ALUMINUM	
5	1	ELBOW CAP	ALUMINUM	
6	1	SLIDING TUBE	STEEL	
7	1	SLIDING TUBE TOP	STEEL	
8	1	VACUUM CUP	RUBBER	
9	1	VACUUM CAP	ALUMINUM	
10	1	VACUUM CONNECTOR	STEEL	
11	3	10-36 UNS CAP SCREW	STEEL	
12	1	VACUUM TUBE	RUBBER	INNER Ø.13 OUTER Ø.25 Length 10



ROBTIC ARM ASSEMBLY
SCALE 1 / 4

LEGEND:
 Ø DIAMETER
 R RADIUS
 ° DEGREES
 ▽ DEPTH
 □ COUNTERBORE



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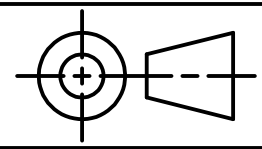
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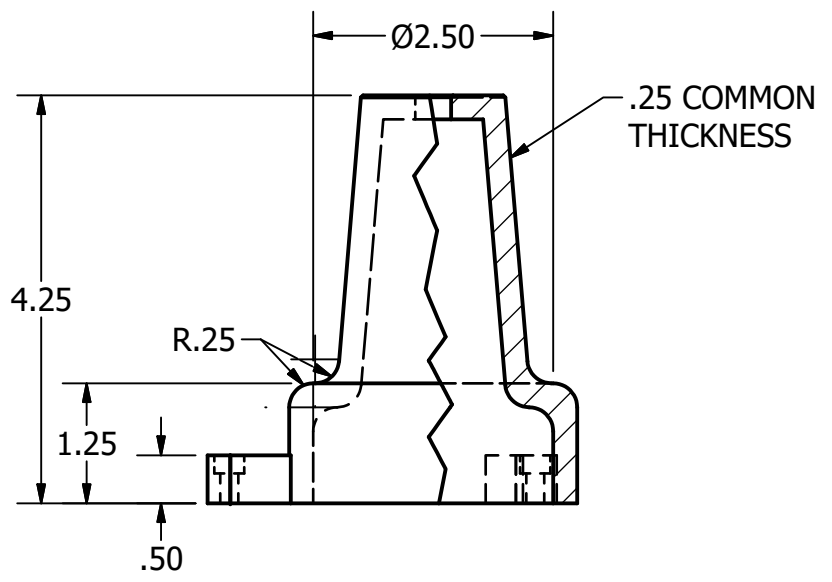
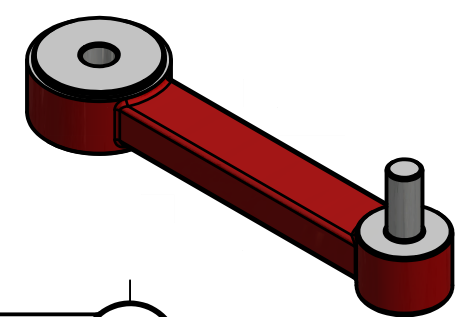
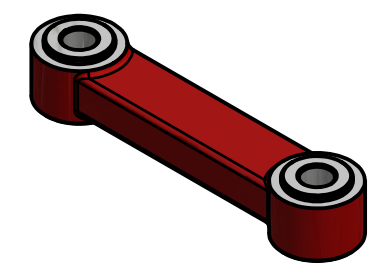
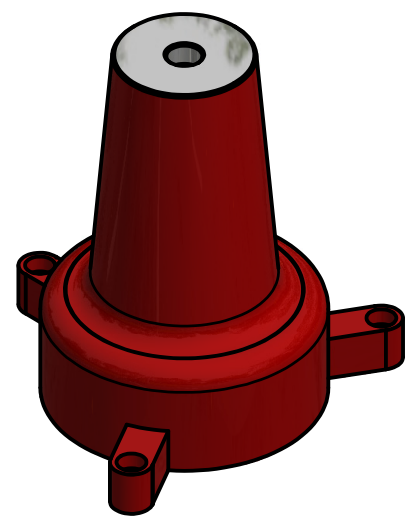
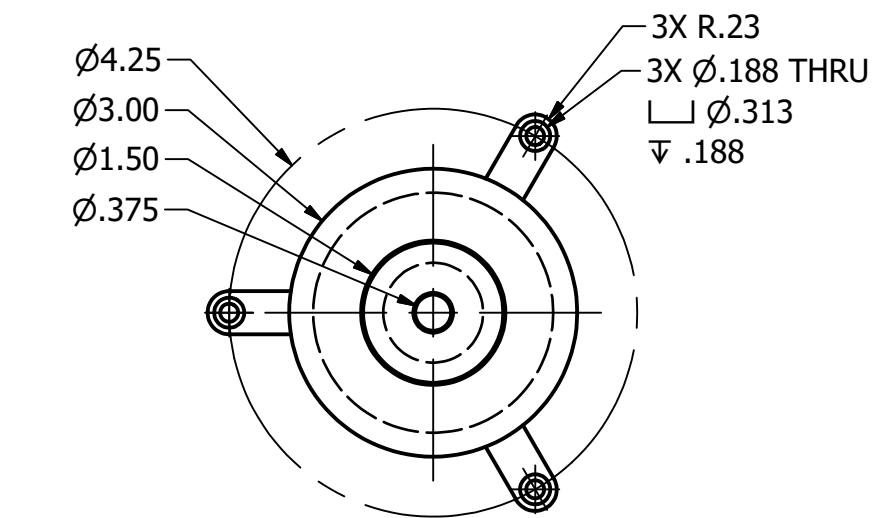
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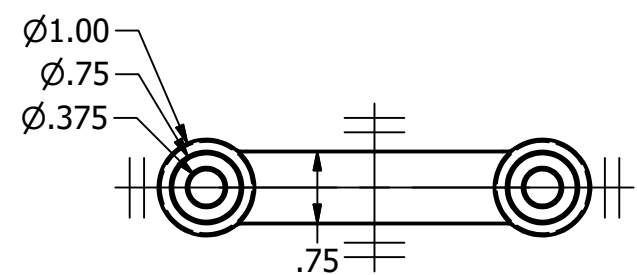
TOLERANCES UNLESS SPECIFIED:
 DECIMAL INCHES:
 X = ±.020
 XX = ±.010
 XXX = ±.005
 FRACTIONAL ±1/64"
 ANGLES ±1 DEGREE
 SURFACES 32 ✓

COURSE:	DDGT240
INVENTOR DRAWING NAME:	ROBOTIC ARM
FIG #:	10-58
DRAFTER:	J.WILLIAMS
DATE:	2/20/2020
SCALE:	AS NOTED
PAGE #:	1 OF 4

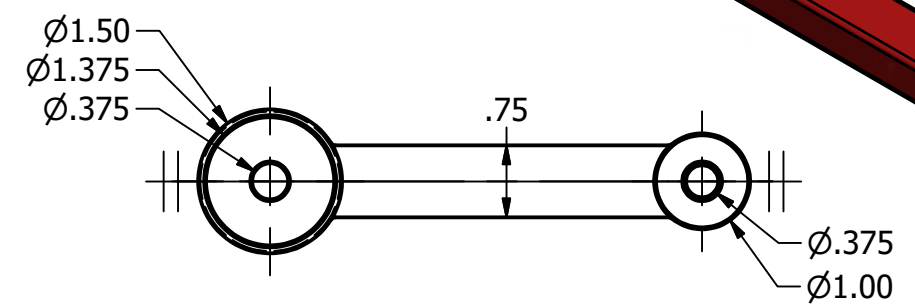
PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	BASE E-01
2	1	ARM E-01
3	1	ARM E-02
4	1	BASE CAP
7	1	SLIDING TUBE TOP



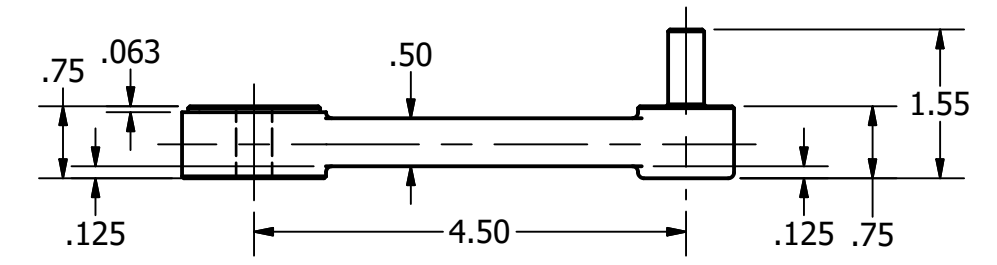
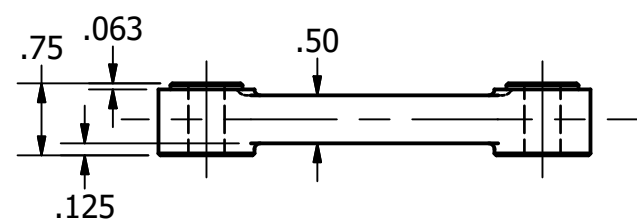
BASE E-01
SCALE 1 / 2



ARM E-02
SCALE 1 / 2

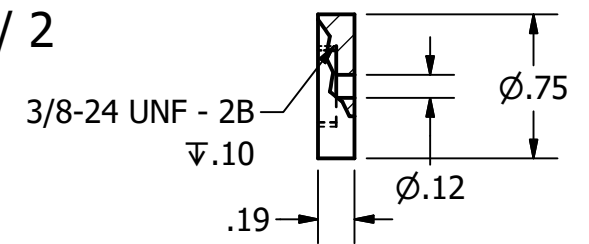


ARM E-01
SCALE 1 / 2



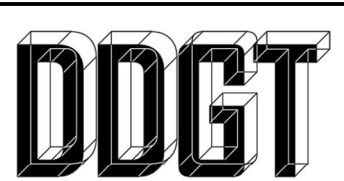
LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- ∇ DEPTH
- COUNTERBORE



SLIDING TUBE TOP
SCALE 1 : 1

GENERAL NOTES:
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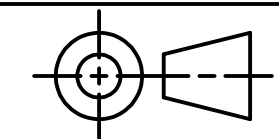
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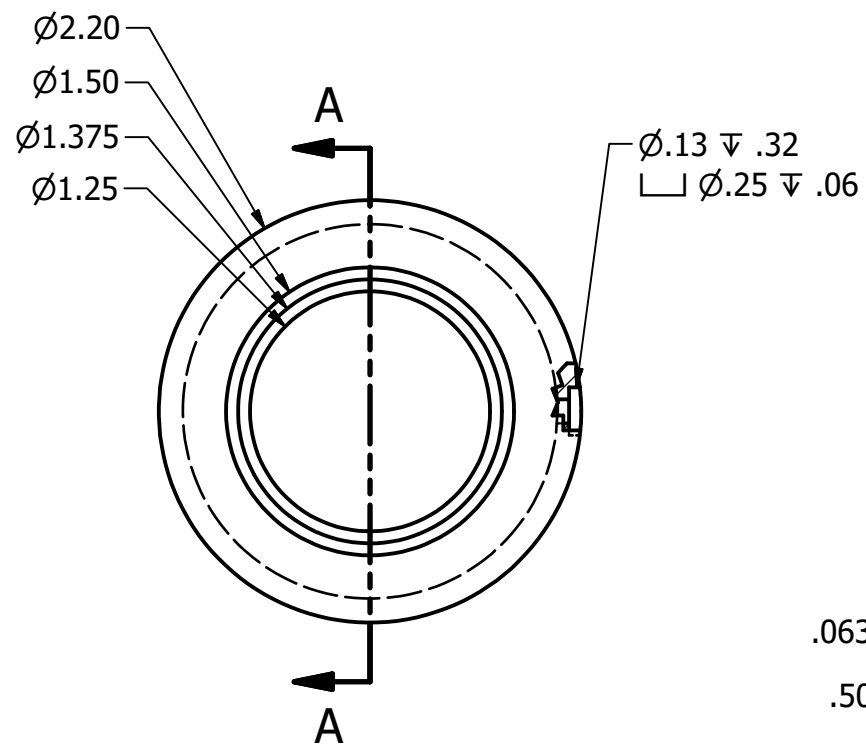
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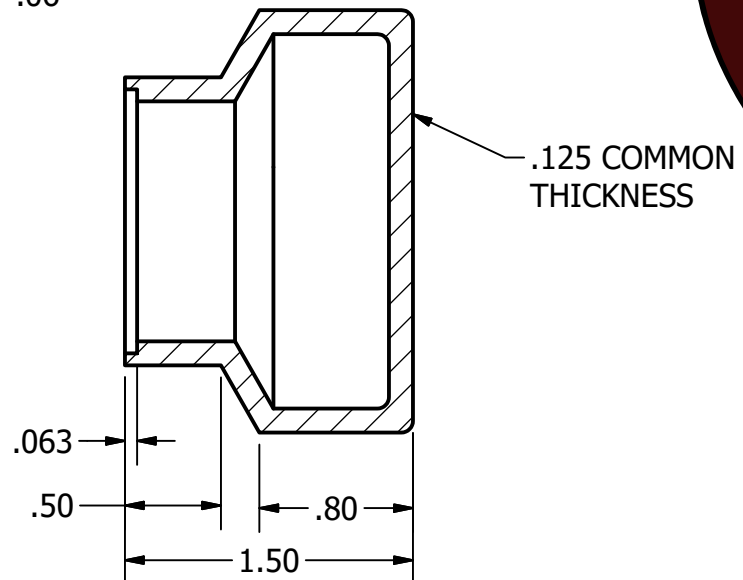
TOLERANCES UNLESS SPECIFIED:
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 XX = ±.010
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 FRACTIONAL ±1/64"
 ANGLES ±1 DEGREE
 SURFACES 32 ✓

COURSE:	DDGT240
INVENTOR DRAWING NAME:	ROBOTIC ARM
FIG #:	10-58
DRAFTER:	J.WILLIAMS
DATE:	2/20/2020
SCALE:	AS NOTED
PAGE #:	2 OF 4

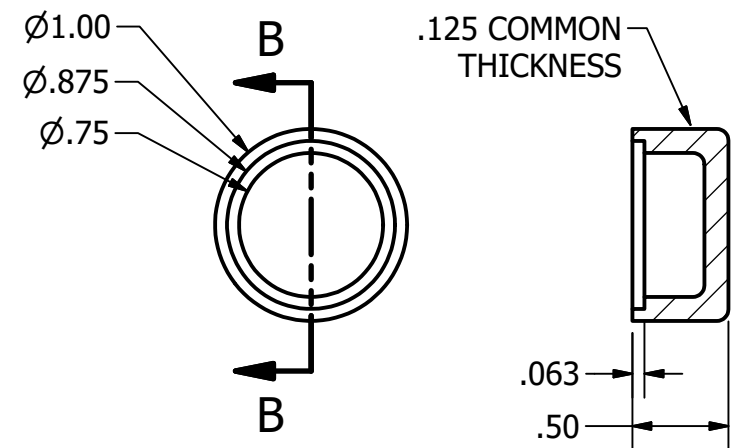
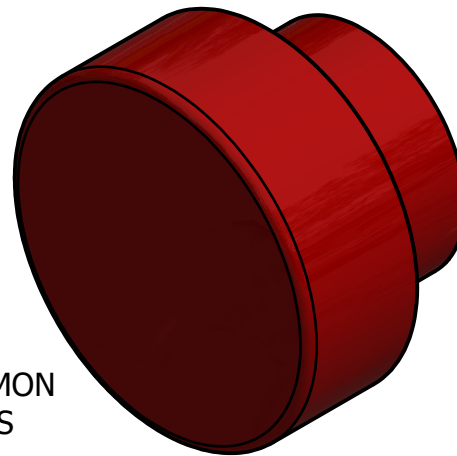


BASE CAP
SCALE 1 : 1

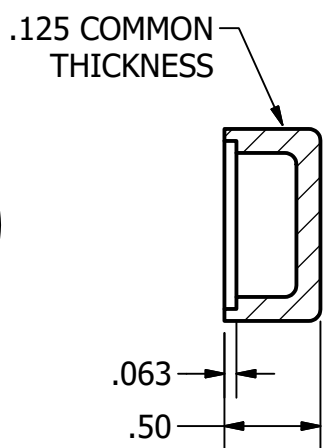
$\varnothing .13 \nabla .32$
 $\sqsupset \varnothing .25 \nabla .06$



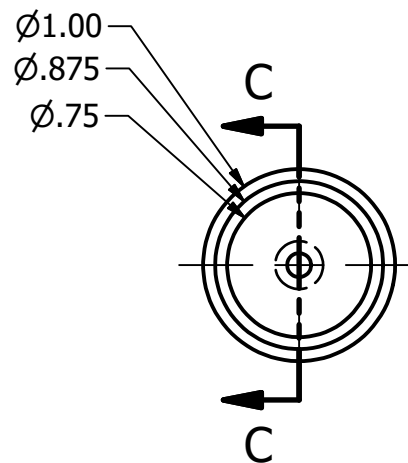
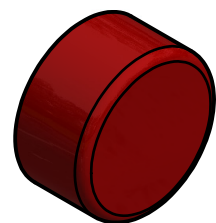
SECTION A-A
SCALE 1 : 1



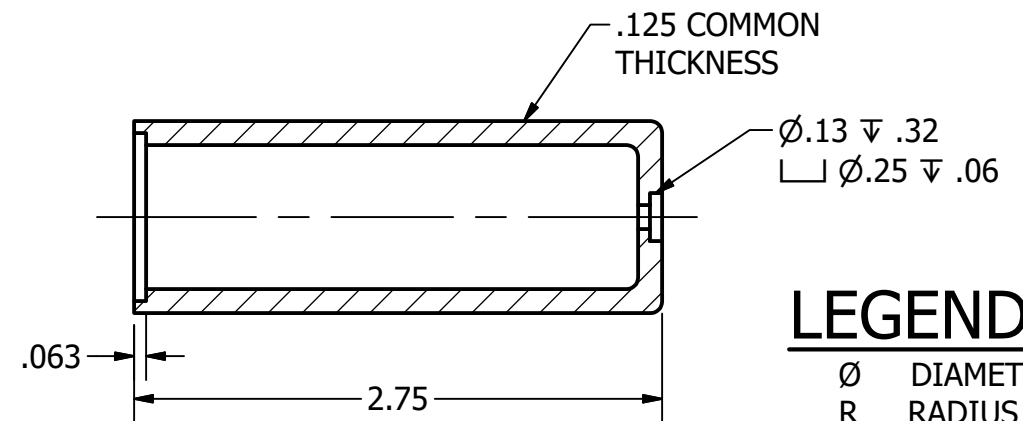
ELBOW CAP
SCALE 1 : 1



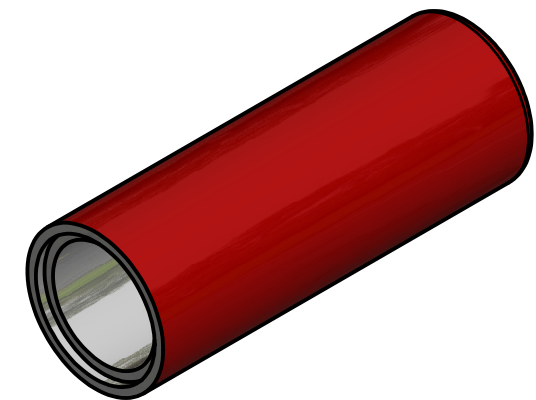
SECTION B-B
SCALE 1 : 1



VACUUM CAP
SCALE 1 : 1



SECTION C-C
SCALE 1 : 1



PARTS LIST		
ITEM	QTY	PART NUMBER
4	1	BASE CAP
5	1	ELBOW CAP
6	1	SLIDING TUBE
8	1	VACUUM CUP
9	1	VACUUM CAP
10	1	VACUUM CONNECTOR

LEGEND:

- \varnothing DIAMETER
- R RADIUS
- $^{\circ}$ DEGREES
- ∇ DEPTH
- \sqsupset COUNTERBORE

GENERAL NOTES:

ALL FILLETS ARE .06in UNLESS OTHERWISE SPECIFIED
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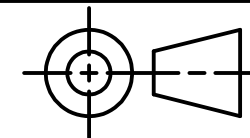


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TOLERANCES UNLESS SPECIFIED:
 DECIMAL INCHES:
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SURFACES \checkmark 32

COURSE: DDGT240

INVENTOR DRAWING NAME:
 ROBOTIC ARM

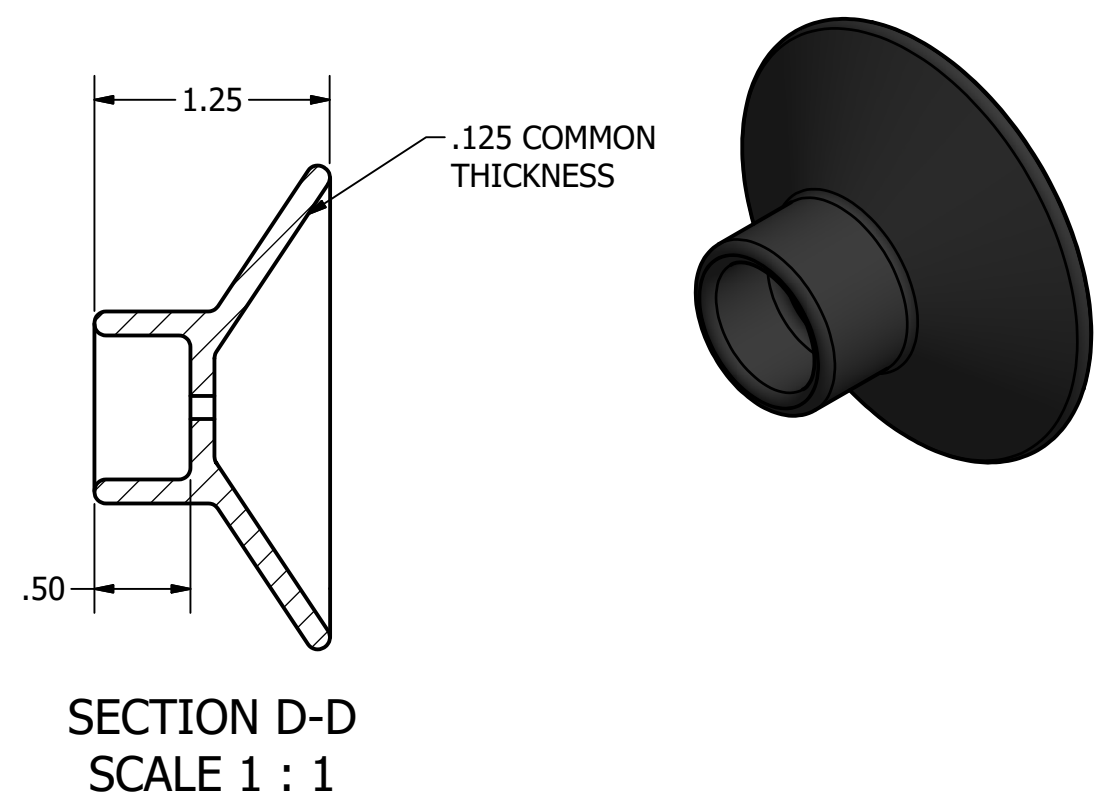
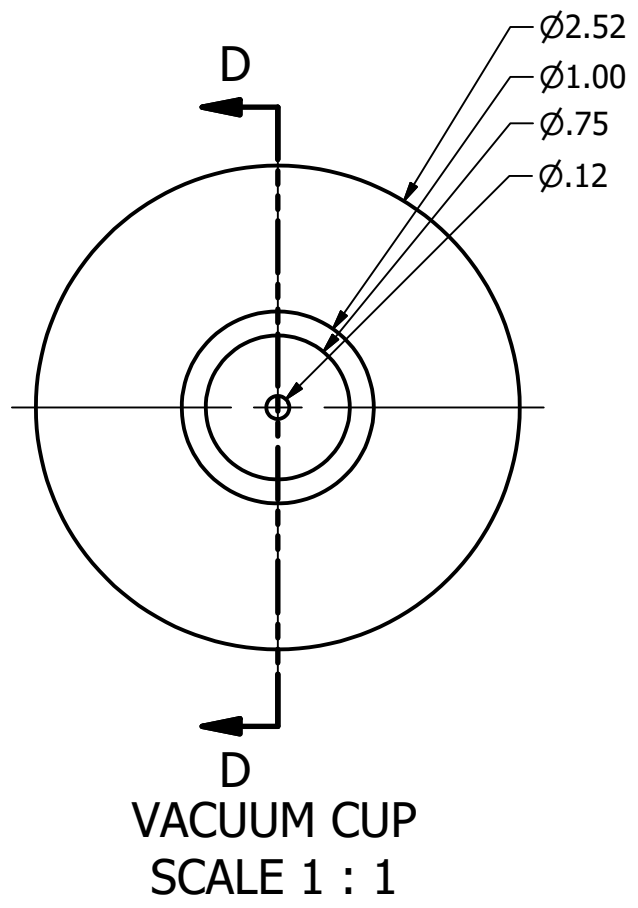
FIG #: 10-58

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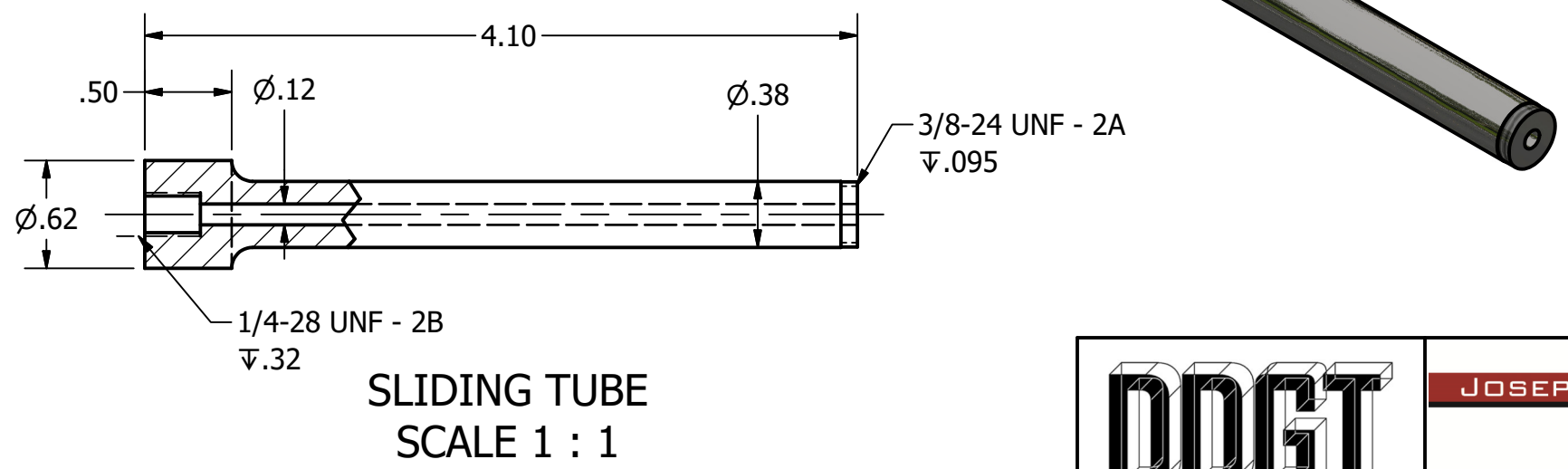
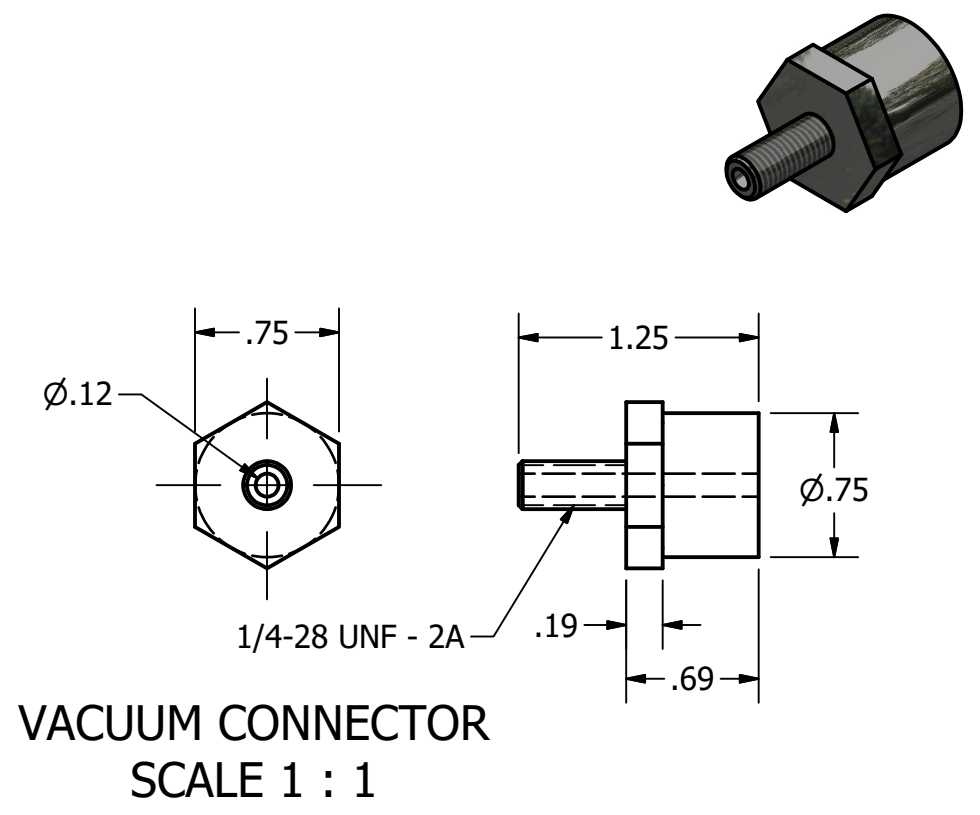
DATE: 2/20/2020

SCALE: AS NOTED

PAGE #: 3 OF 4



PARTS LIST		
ITEM	QTY	PART NUMBER
6	1	SLIDING TUBE
8	1	VACUUM CUP
10	1	VACUUM CONNECTOR



LEGEND:

- \varnothing DIAMETER
- R RADIUS
- $^\circ$ DEGREES
- ∇ DEPTH
- COUNTERBORE

GENERAL NOTES:
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			INVENTOR DRAWING NAME: ROBOTIC ARM
			FIG #: 10-58
			DRAFTER: J.WILLIAMS
			DATE: 2/20/2020
			SCALE: AS NOTED
			PAGE #: 4 OF 4