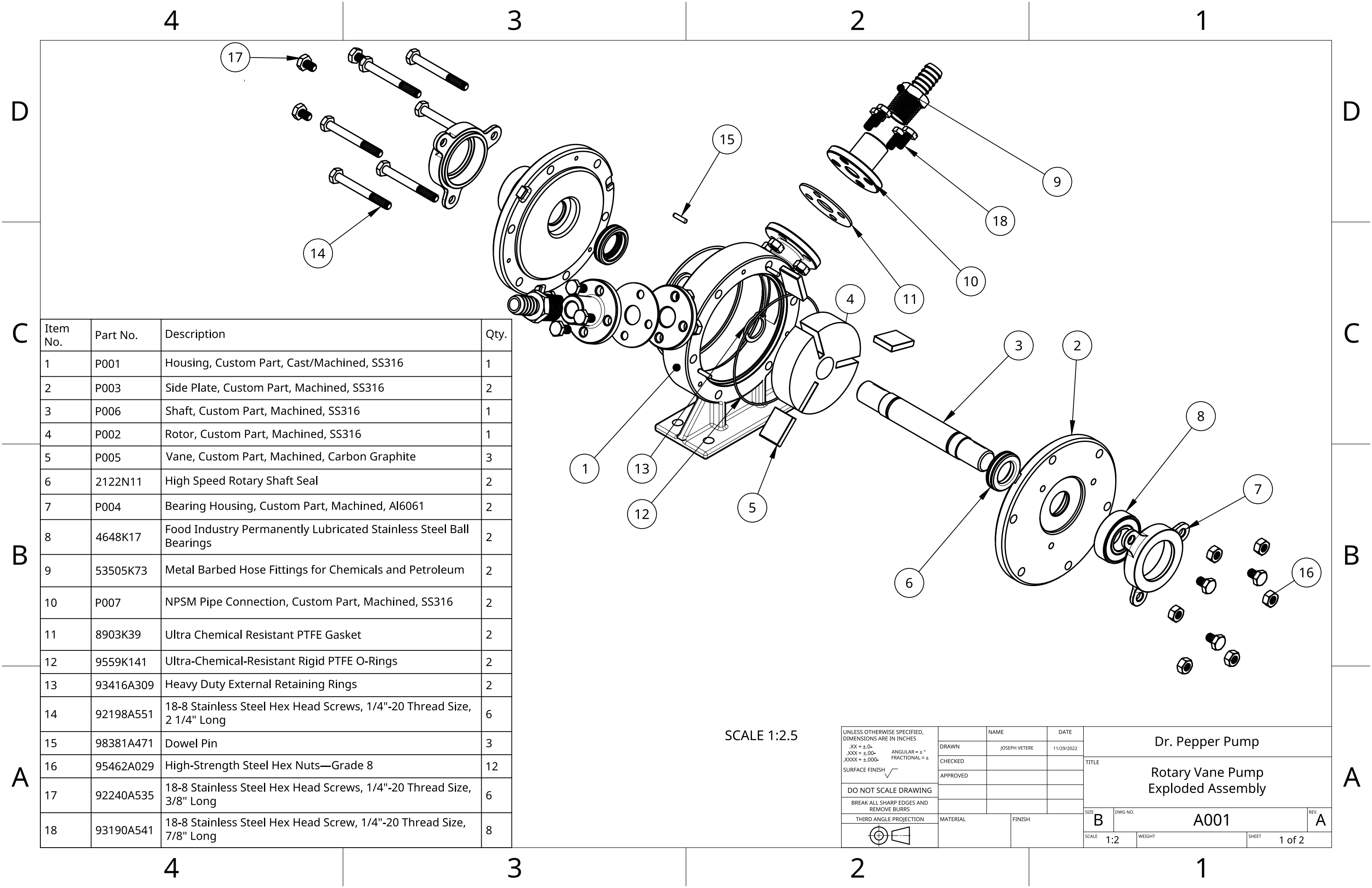
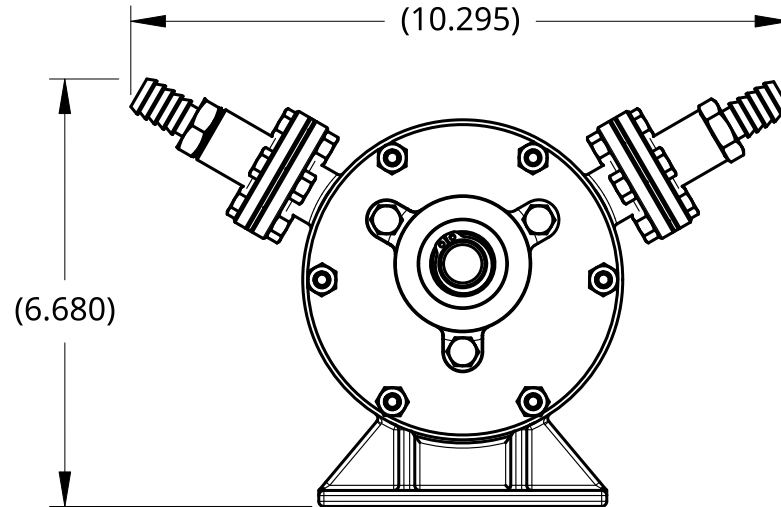
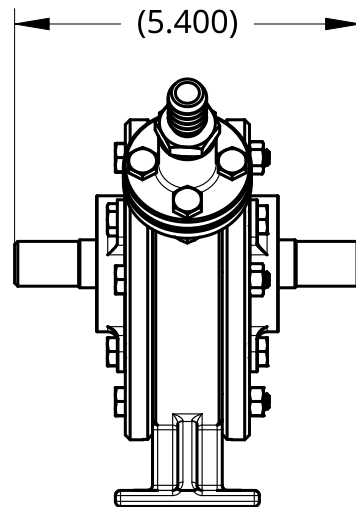




2

1



Side View

Front View

2

1

4

3

2

1

D

D

C

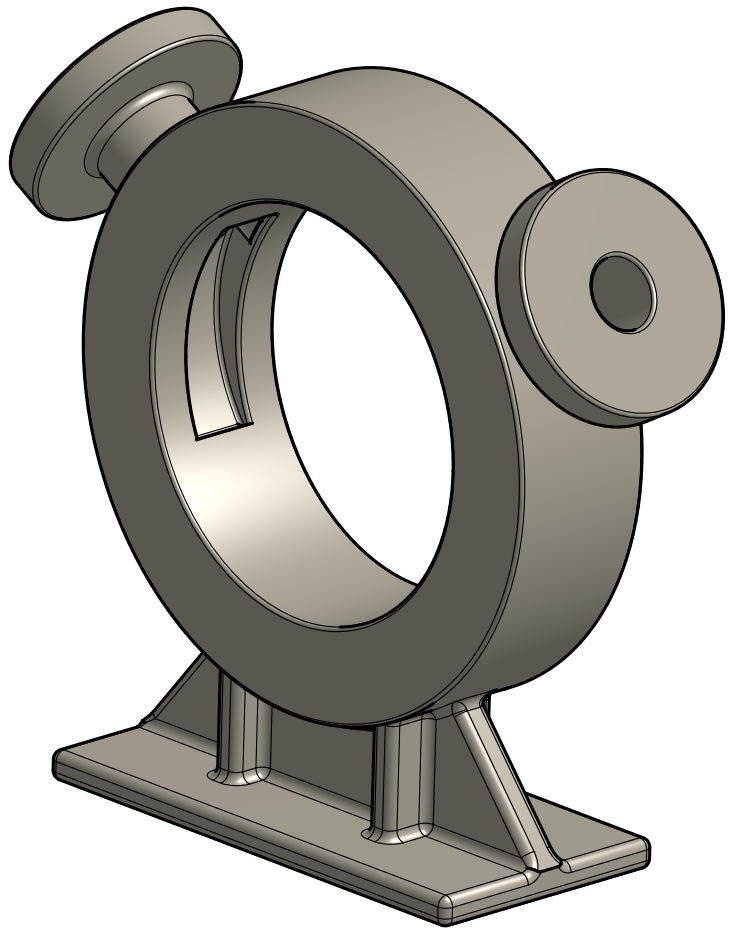
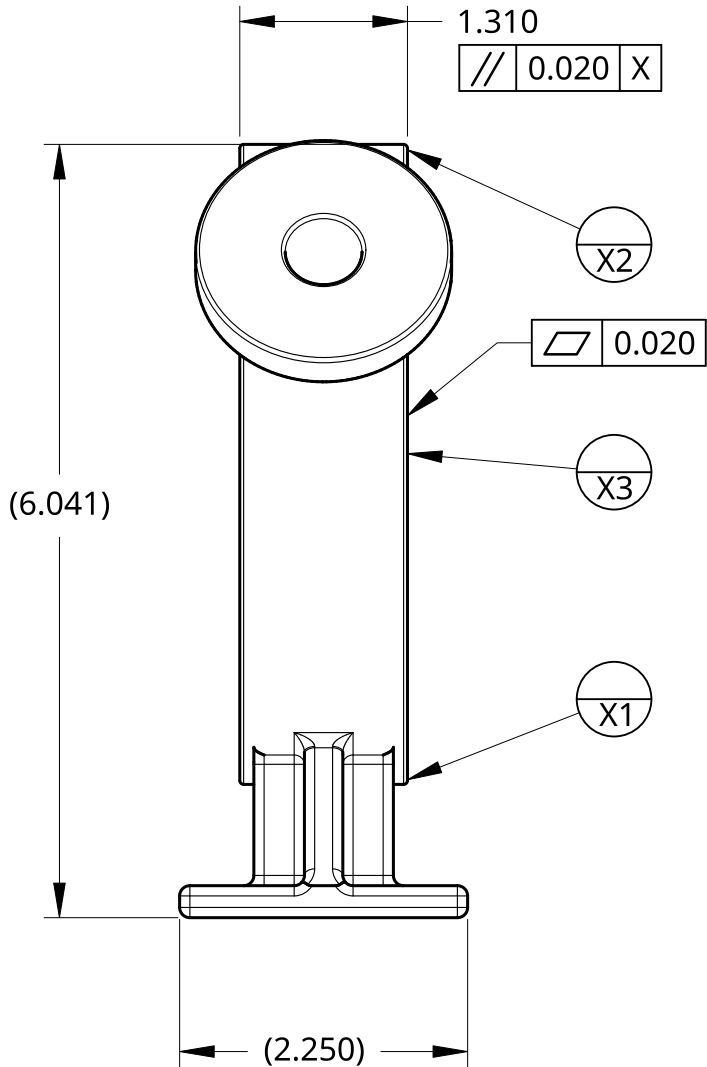
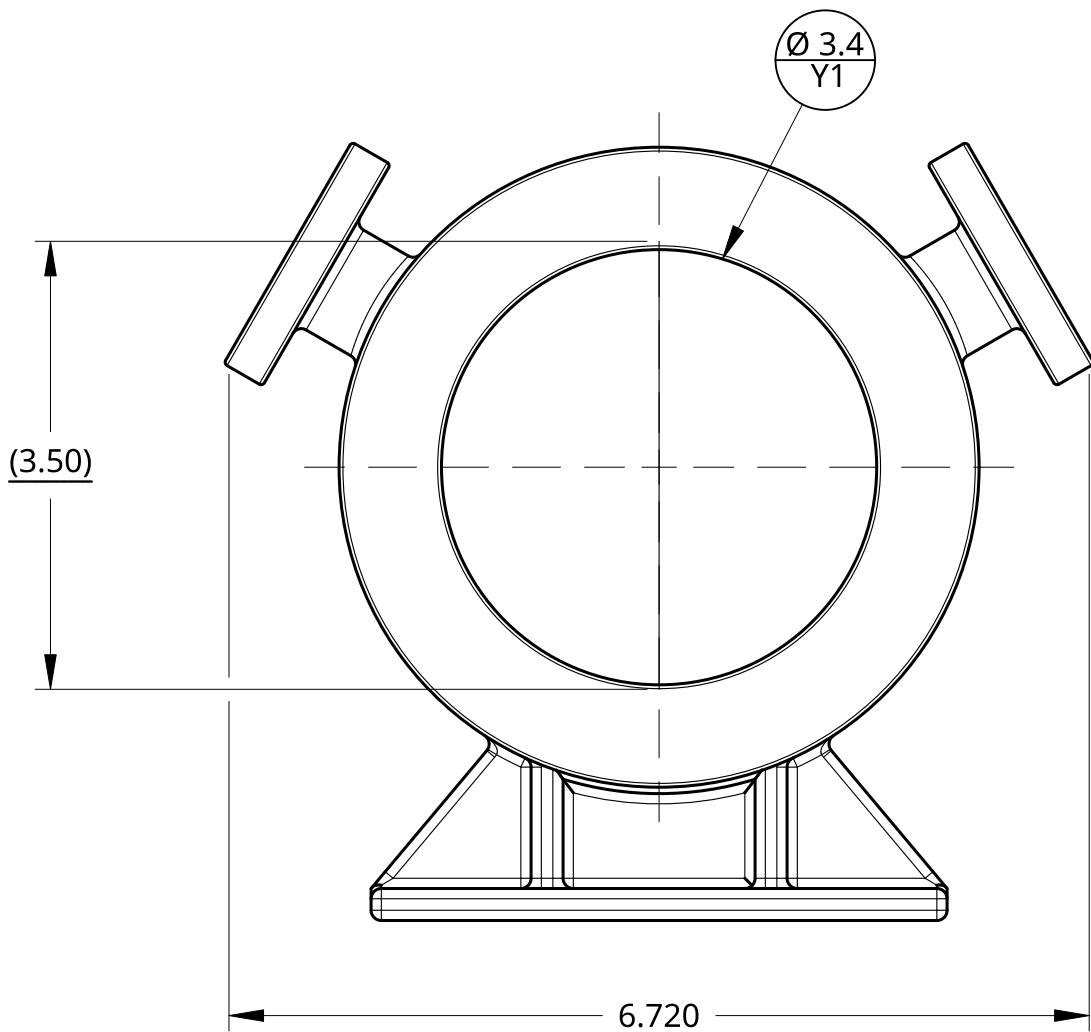
C

B

B

A

A



NOTES:  
1) 125 µin TYP INVESTMENT FINSH  
2) REFER TO 3D CAD FILE FOR ALL OTHER DIMENSIONS

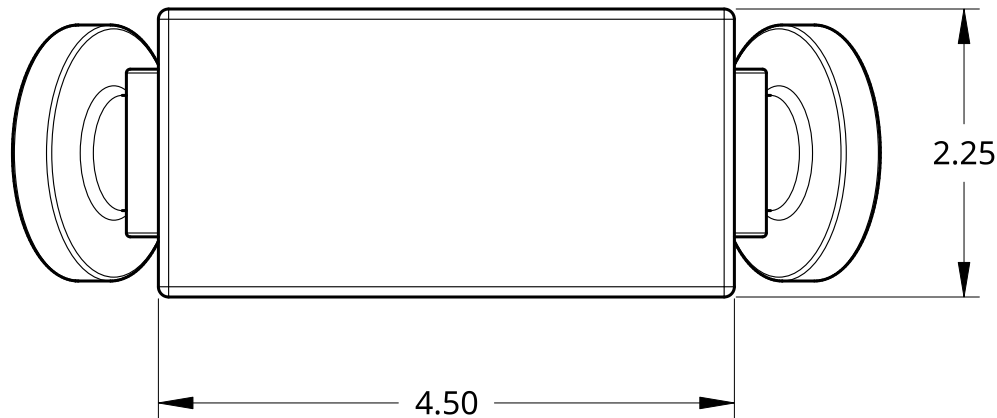
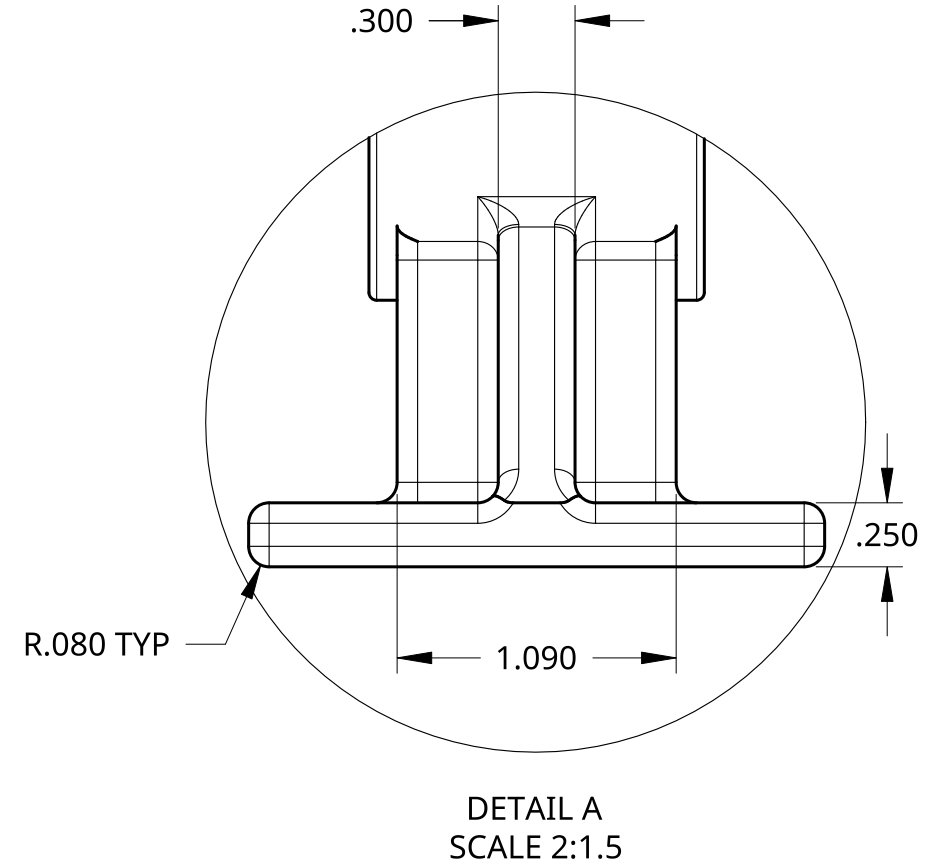
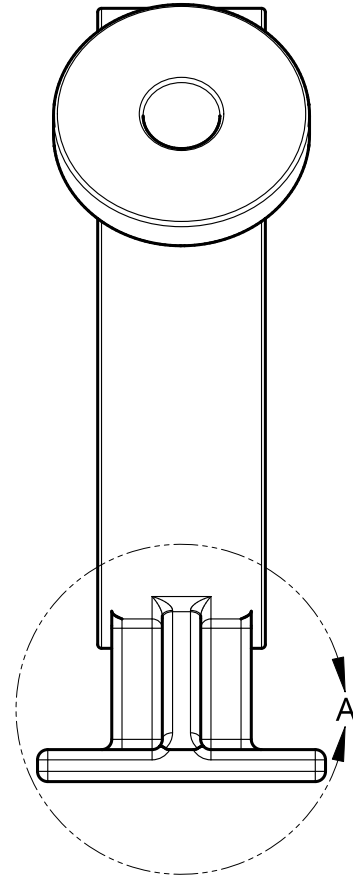
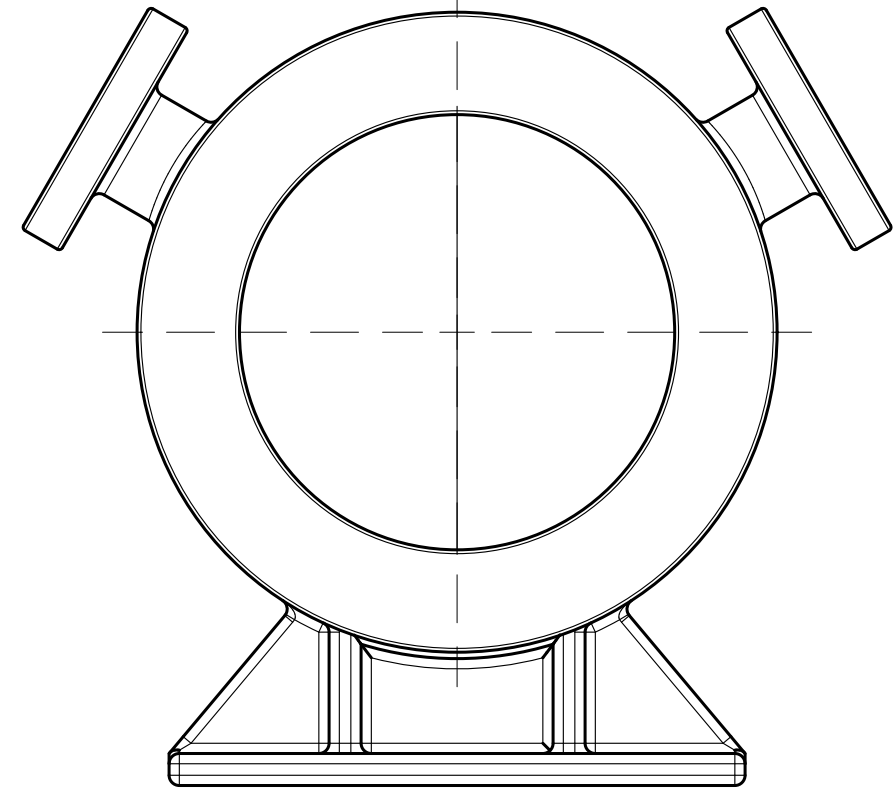
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|------------------------------------------------------------------------------------------------------------------------------|----------|----|------------|-----------------|---------|--------------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH | NAME     |    | DATE       | Dr. Pepper Pump |         |              |
|                                                                                                                              | DRAWN    | RS | 12/04/2022 | Pump Body CAST  |         |              |
|                                                                                                                              | CHECKED  |    |            |                 |         |              |
|                                                                                                                              | APPROVED |    |            |                 |         |              |
|                                                                                                                              |          |    |            |                 |         |              |
| DO NOT SCALE DRAWING                                                                                                         |          |    |            |                 |         |              |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS                                                                                    |          |    |            |                 |         |              |
| THIRD ANGLE PROJECTION                                                                                                       | MATERIAL |    | FINISH     | SIZE            | DWG NO. | REV.         |
|                                                                                                                              | SS 316   |    | CAST       | B               | 001_A   | A            |
|                                                                                                                              |          |    |            | SCALE           | 1:3     | WEIGHT       |
|                                                                                                                              |          |    |            |                 |         | SHEET 1 of 3 |

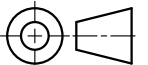
4

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|                                                                                                                                                                                                                    |                      |    |            |                 |         |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----|------------|-----------------|---------|--------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH  | NAME                 |    | DATE       | Dr. Pepper Pump |         |        |
|                                                                                                                                                                                                                    | DRAWN                | RS | 12/04/2022 | Pump Body CAST  |         |        |
|                                                                                                                                                                                                                    | CHECKED              |    |            |                 |         |        |
|                                                                                                                                                                                                                    | APPROVED             |    |            |                 |         |        |
|                                                                                                                                                                                                                    | DO NOT SCALE DRAWING |    |            |                 |         |        |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS                                                                                                                                                                          |                      |    |            | SIZE            | DWG NO. | REV.   |
| THIRD ANGLE PROJECTION                                                                                                        | MATERIAL             |    | FINISH     | B               | 001_A   | A      |
|                                                                                                                                                                                                                    | SS 316               |    | CAST       | SCALE           | 1:3     | SHEET  |
|                                                                                                                                                                                                                    |                      |    |            |                 | WEIGHT  | 2 of 3 |

4

3

2

1

D

D

C

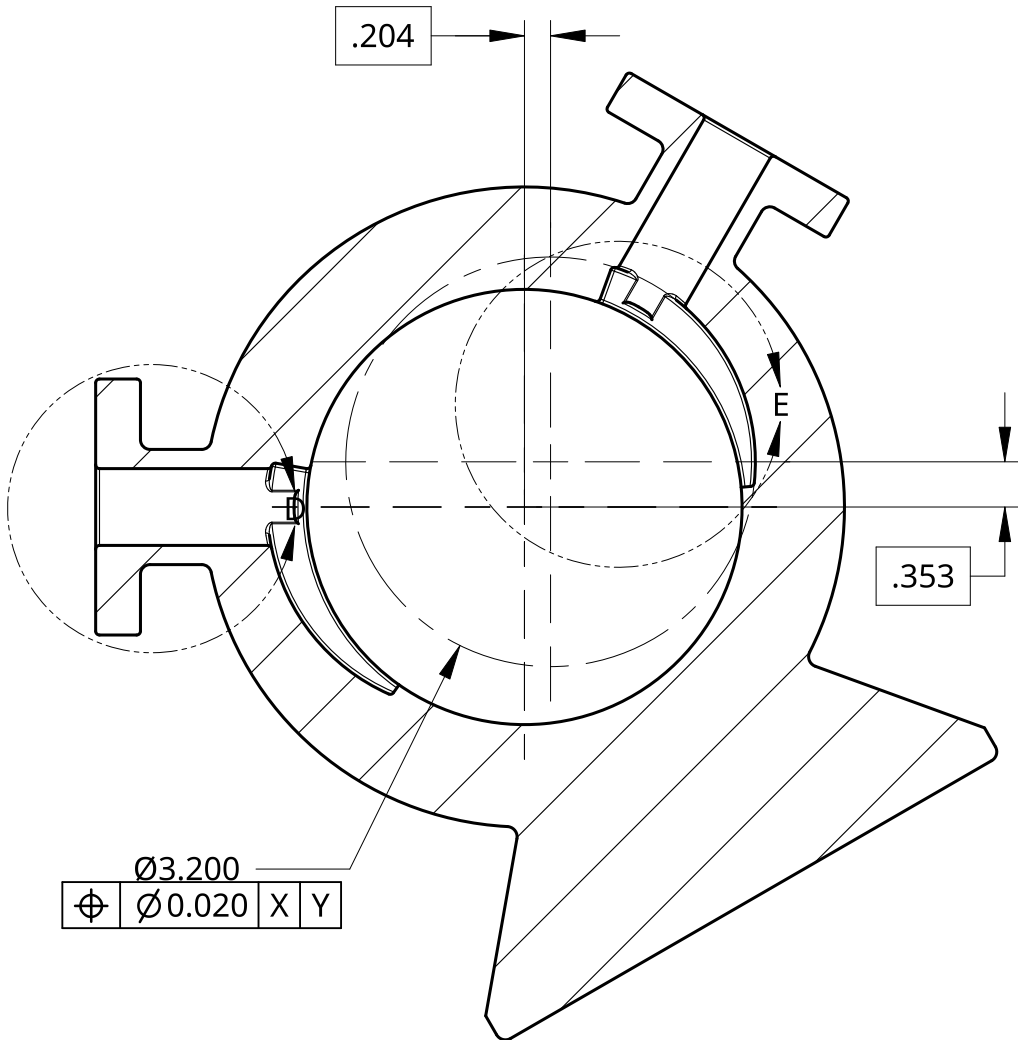
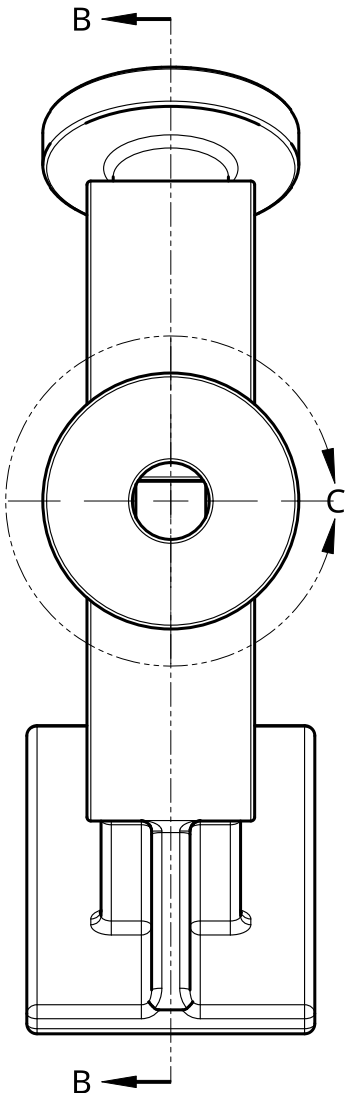
C

B

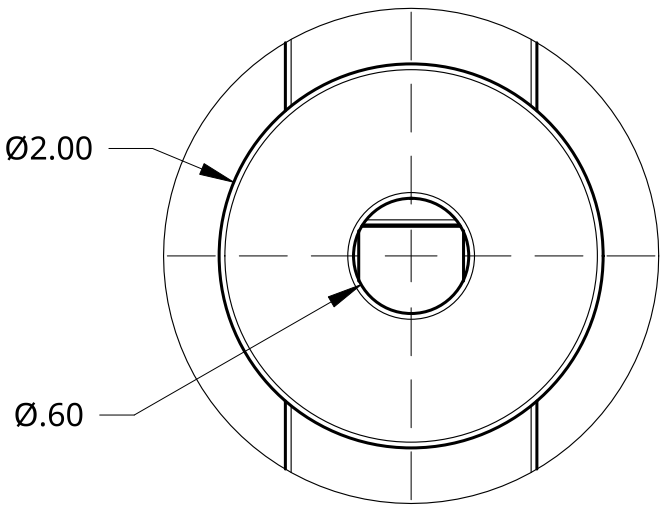
B

A

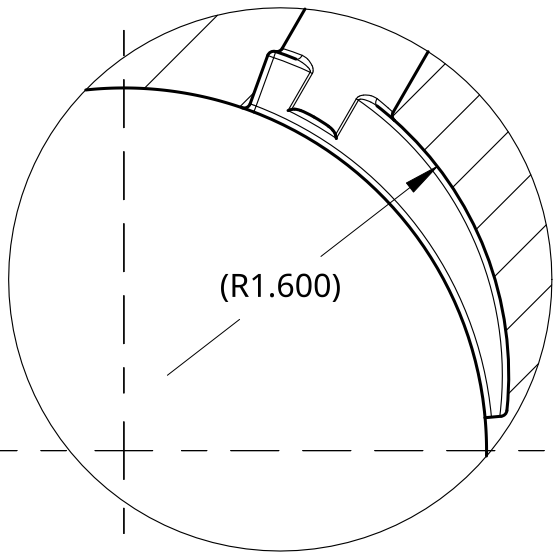
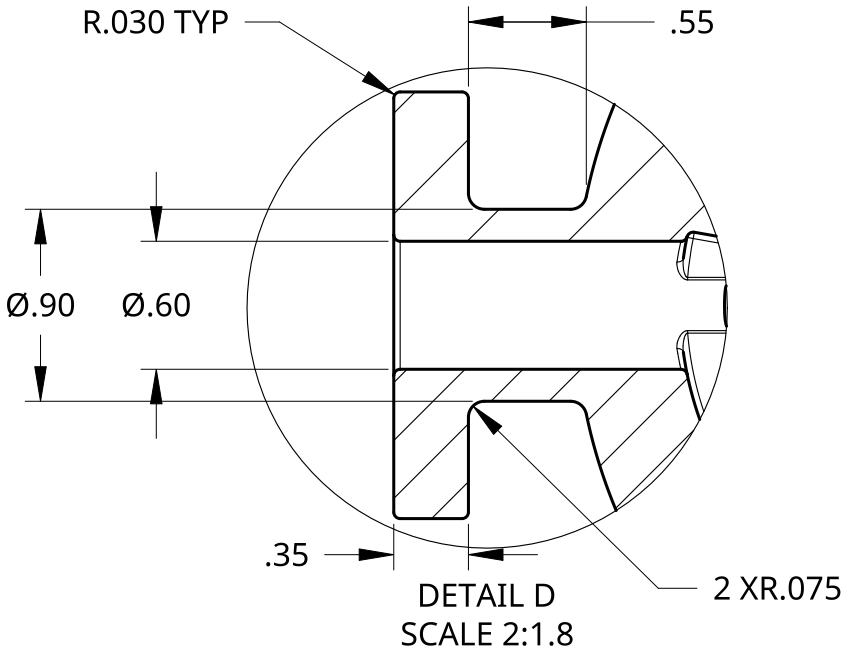
A



Ø3.200  
⊕ Ø0.020 X Y



DETAIL C  
SCALE 2:2



DETAIL E  
SCALE 2:1.8

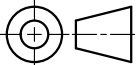
UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±.01-  
.XXX = ±.005-  
.XXXX = ±.0005-  
SURFACE FINISH

ANGULAR = ±°  
FRACTIONAL = ±

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

THIRD ANGLE PROJECTION



|          | NAME | DATE       |
|----------|------|------------|
| DRAWN    | RS   | 12/04/2022 |
| CHECKED  |      |            |
| APPROVED |      |            |
|          |      |            |

MATERIAL  
SS 316

FINISH  
CAST

Dr. Pepper Pump

Pump Body CAST

SIZE  
B

DWG NO.

001\_A

REV.

A

SCALE  
1:3

WEIGHT

SHEET

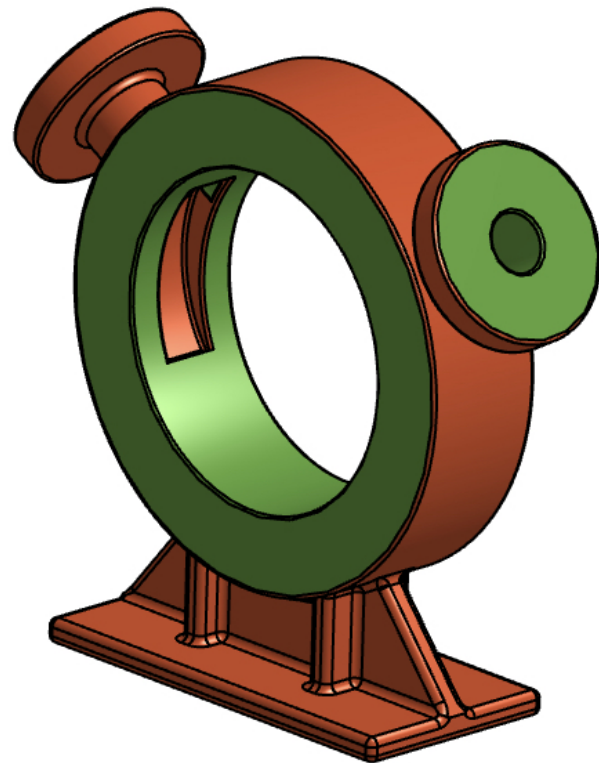
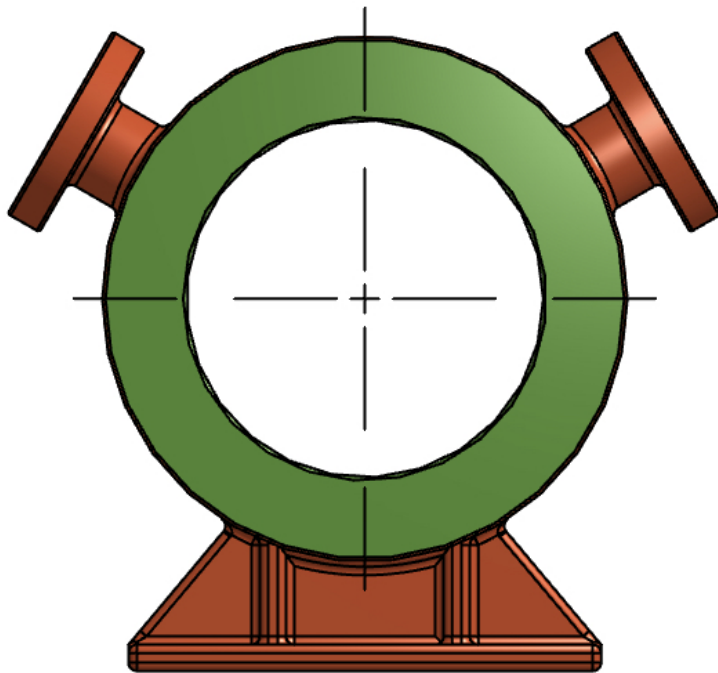
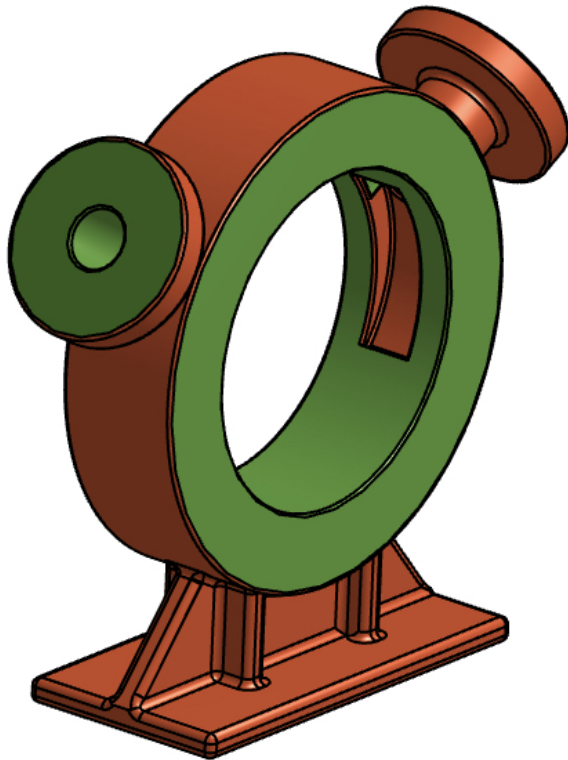
3 of 3

4

3

2

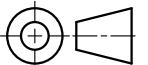
1



Surface Key

|          |
|----------|
| CAST     |
| MACHINED |

NOTE:  
1) MAKE FROM 001\_A  
2) ELECTROPOLISH AFTER ALL FEATURES ARE MACHINED

|                                                                                                                                                                                                                                                                                                                                                                                                         |          |                 |            |                 |         |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------------|-----------------|---------|--------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH <br>DO NOT SCALE DRAWING<br>BREAK ALL SHARP EDGES AND<br>REMOVE BURRS<br>THIRD ANGLE PROJECTION  | NAME     |                 | DATE       | Dr. Pepper Pump |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                         | DRAWN    | RS              | 11/27/2022 | Pump Body MACH  |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                         | CHECKED  |                 |            |                 |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                         | APPROVED |                 |            |                 |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                         |          |                 |            | SIZE            | DWG NO. | REV.   |
| MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                |          | FINISH          |            | B               | 001_B   | A      |
| SS 316                                                                                                                                                                                                                                                                                                                                                                                                  |          | Electropolished |            | SCALE           | 1:3     | WEIGHT |
|                                                                                                                                                                                                                                                                                                                                                                                                         |          |                 |            | SHEET           |         | 1 of 4 |

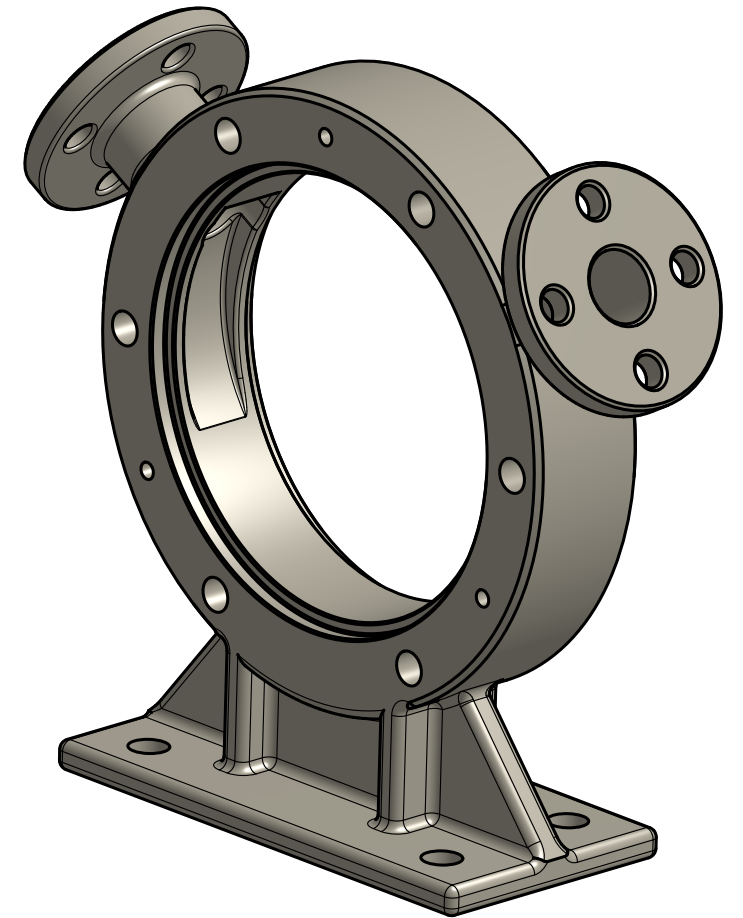
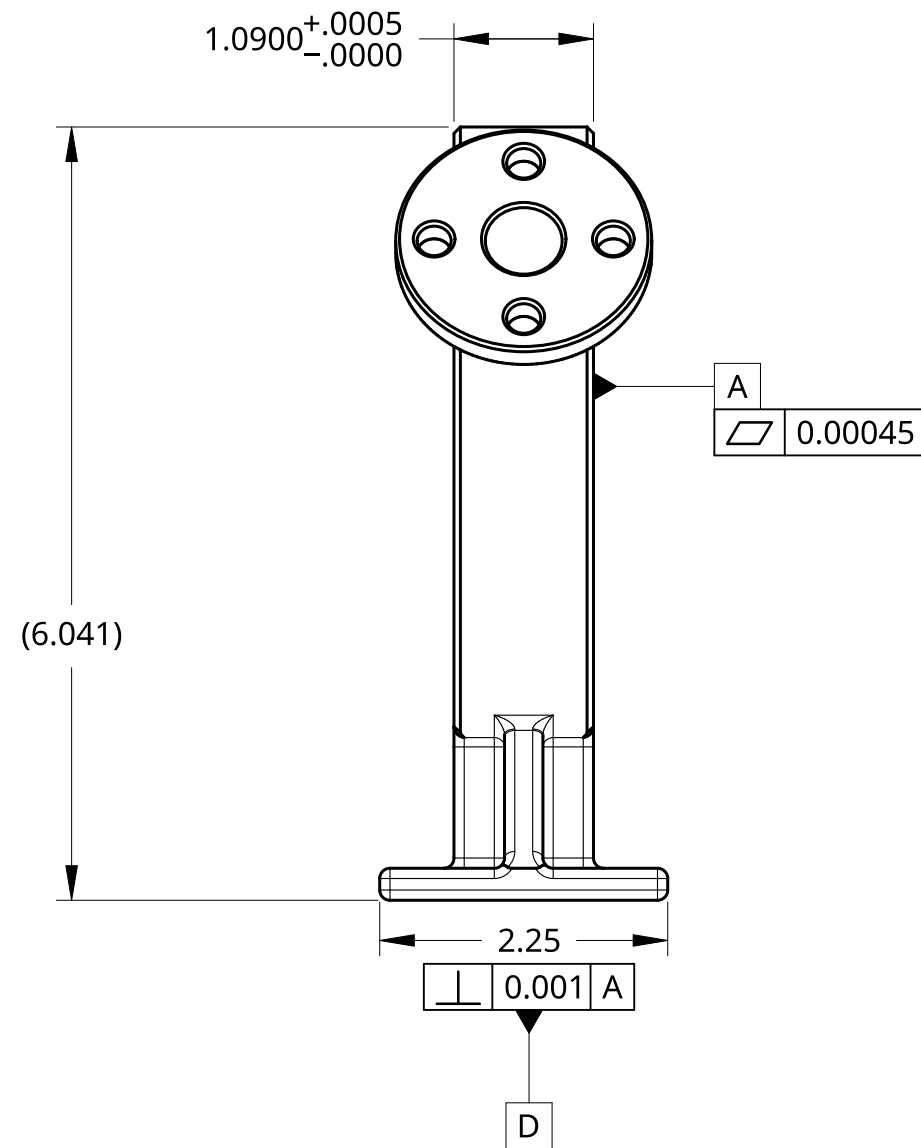
1

D

C

B

A

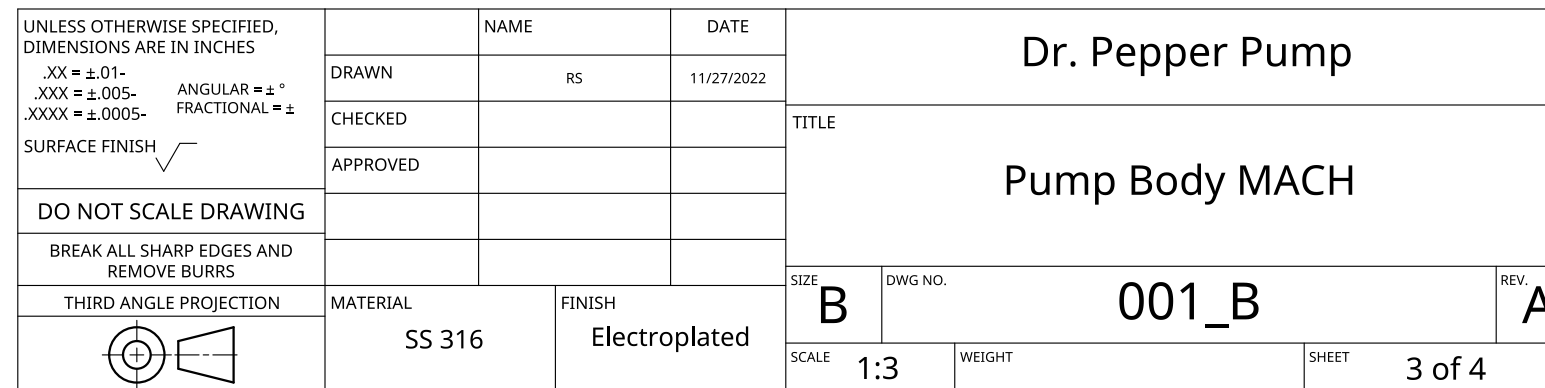
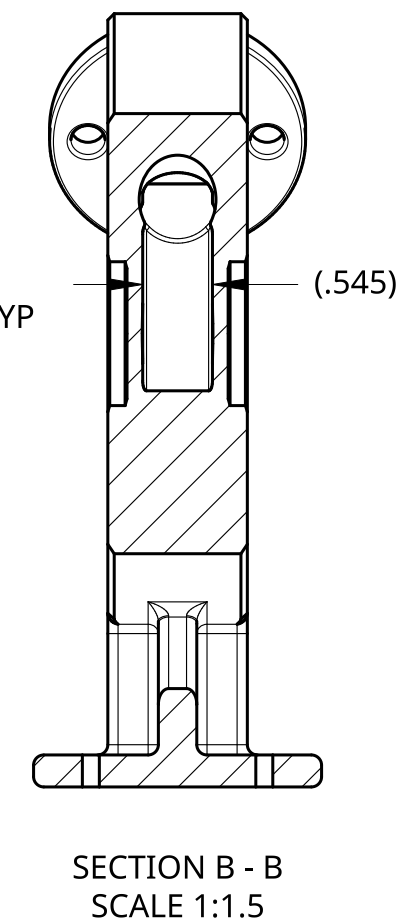


NOTE:  
1) MAKE FROM 001\_A  
2) ELECTROPOLISH AFTER ALL FEATURES ARE MACHINED

|                                                                                                                                                                                                                                                                                                        |          |                 |      |              |                                                                       |                 |  |  |  |  |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|------|--------------|-----------------------------------------------------------------------|-----------------|--|--|--|--|-------|
| <div>UNLESS OTHERWISE SPECIFIED,<br/>DIMENSIONS ARE IN INCHES</div> <div><div>.XX = ±.01-<br/>.XXX = ±.005-<br/>.XXXX = ±.0005-</div><div>ANGULAR = ± °<br/>FRACTIONAL = ±</div></div> <div>SURFACE FINISH </div> |          |                 | NAME | DATE         | <div>Dr. Pepper Pump</div> <div>Pump Body MACH</div>                  |                 |  |  |  |  |       |
|                                                                                                                                                                                                                                                                                                        |          | DRAWN           | RS   | 11/27/2022   |                                                                       |                 |  |  |  |  |       |
|                                                                                                                                                                                                                                                                                                        |          | CHECKED         |      |              |                                                                       |                 |  |  |  |  | TITLE |
|                                                                                                                                                                                                                                                                                                        |          | APPROVED        |      |              |                                                                       |                 |  |  |  |  |       |
| DO NOT SCALE DRAWING                                                                                                                                                                                                                                                                                   |          |                 |      |              | SIZE<br><div>B</div> DWG NO.<br><div>001_B</div> REV.<br><div>A</div> |                 |  |  |  |  |       |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS                                                                                                                                                                                                                                                              |          |                 |      |              |                                                                       |                 |  |  |  |  |       |
| THIRD ANGLE PROJECTION                                                                                                                                                                                                                                                                                 | MATERIAL | FINISH          |      |              |                                                                       |                 |  |  |  |  |       |
|                                                                                                                                                                                                                   | SS 316   | Electropolished |      | SCALE<br>1:3 | WEIGHT                                                                | SHEET<br>2 of 4 |  |  |  |  |       |

1

1



1

4

3

2

1

D

D

C

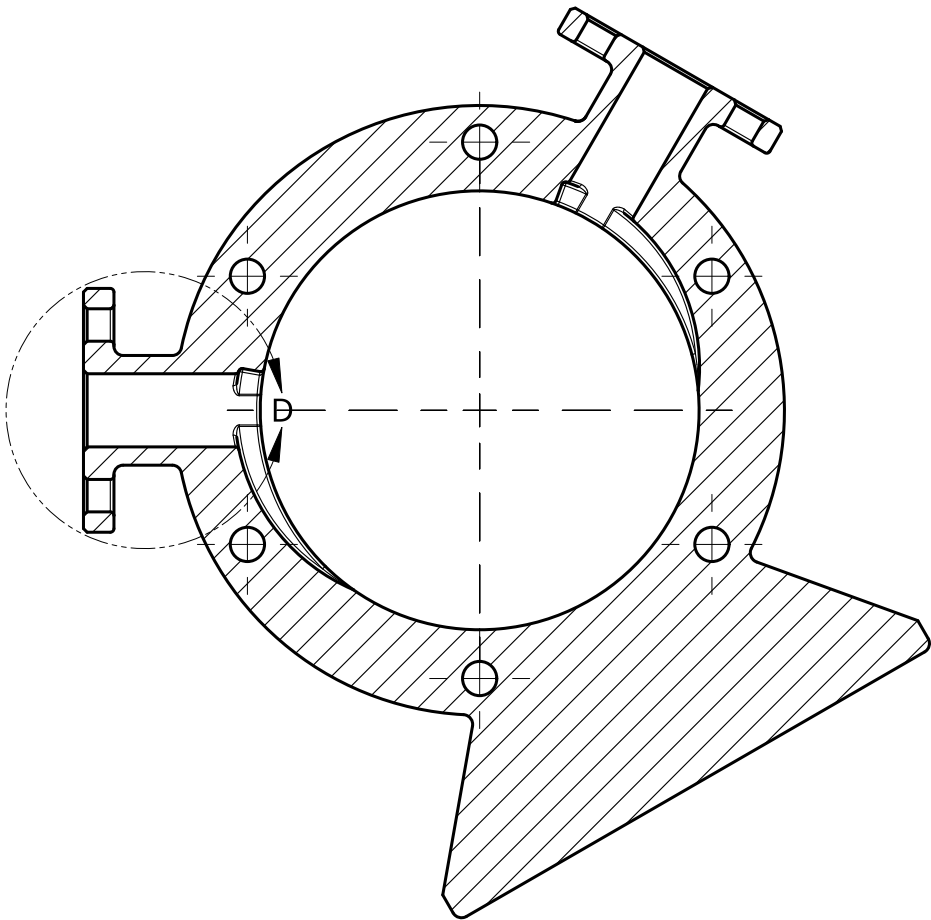
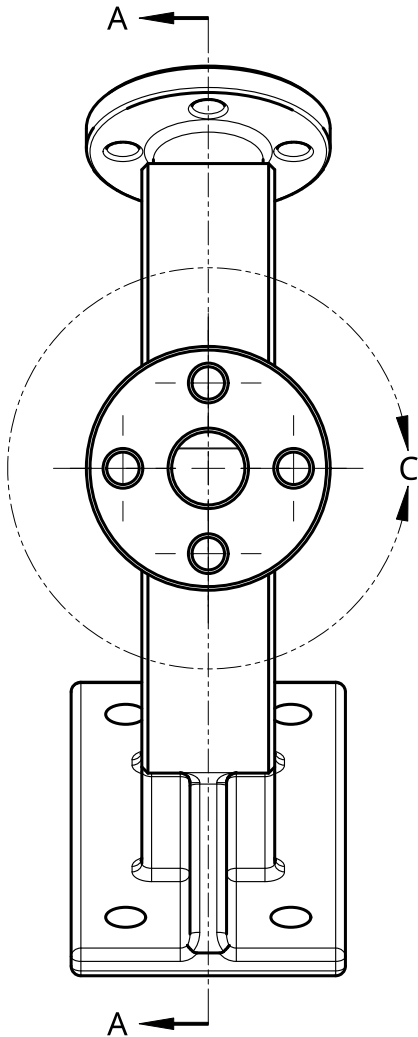
C

B

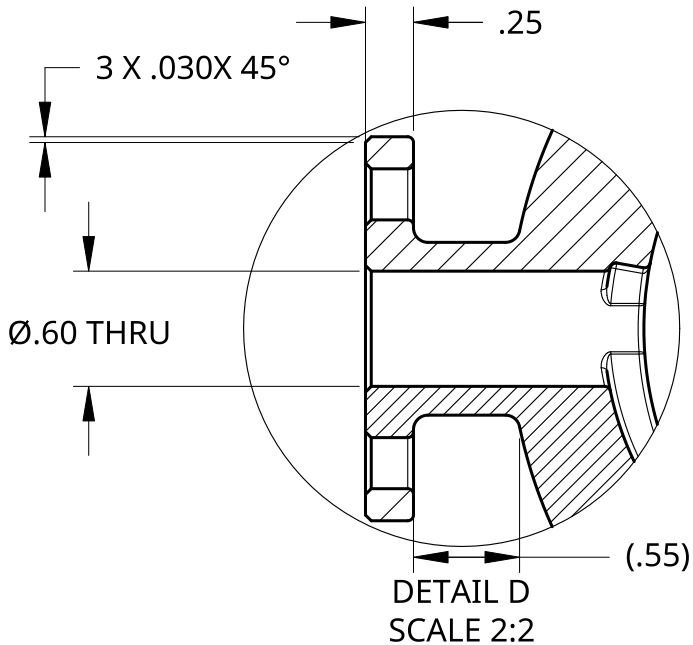
B

A

A

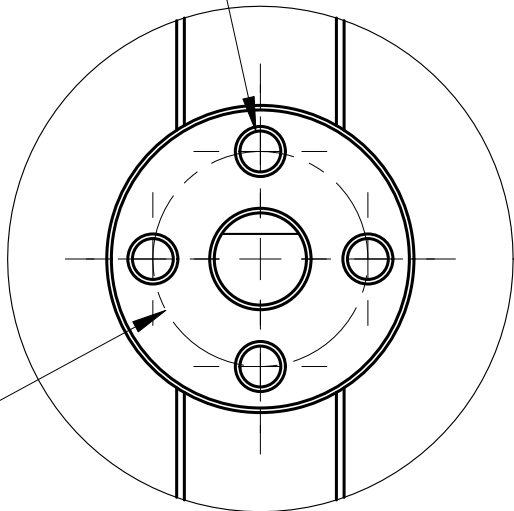


SECTION A - A  
SCALE 1:1.575



4 X Ø.266 THRU THRU EQUALLY SPACED

Ø Ø0.01 E



DETAIL C  
SCALE 2:2.5

|                                                                                                                                                                                                                             |                    |                         |                                   |                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|-----------------------------------|------------------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH<br>DO NOT SCALE DRAWING<br>BREAK ALL SHARP EDGES AND<br>REMOVE BURRS<br>THIRD ANGLE PROJECTION | NAME               | DATE                    | Dr. Pepper Pump<br>Pump Body MACH |                  |
|                                                                                                                                                                                                                             | DRAWN              | RS                      |                                   |                  |
|                                                                                                                                                                                                                             | CHECKED            |                         |                                   |                  |
|                                                                                                                                                                                                                             | APPROVED           |                         |                                   |                  |
|                                                                                                                                                                                                                             |                    |                         | SIZE<br>B                         | DWG NO.<br>001_B |
|                                                                                                                                                                                                                             | MATERIAL<br>SS 316 | FINISH<br>Electroplated | SCALE<br>1:3                      | REV.<br>A        |
|                                                                                                                                                                                                                             |                    |                         | WEIGHT                            | SHEET<br>4 of 4  |

4

3

2

1

4

3

2

1

D

D

C

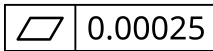
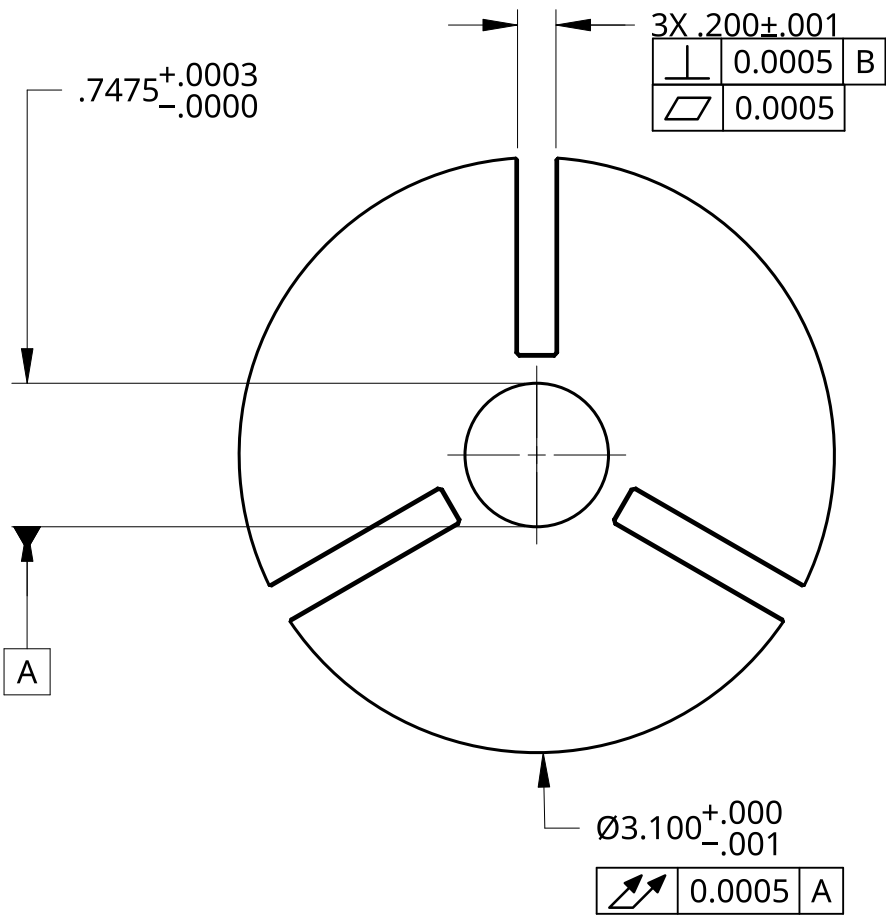
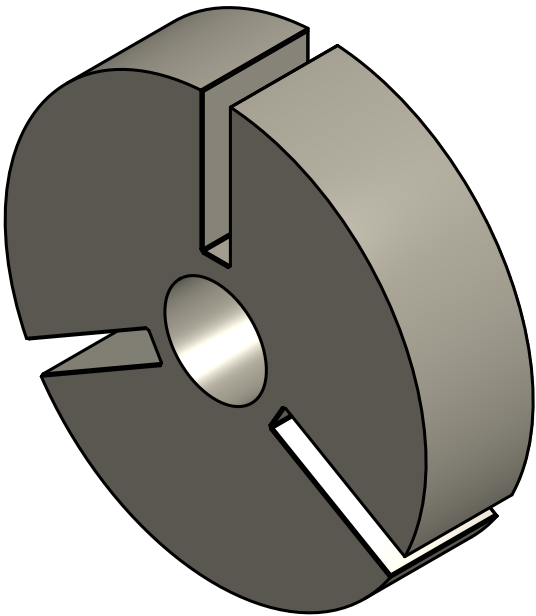
C

B

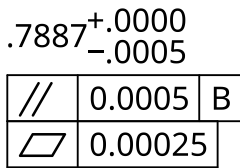
B

A

A



B



UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES  
.XX = ±.01-  
.XXX = ±.005-  
.XXXX = ±.000-  
ANGULAR = ± °  
FRACTIONAL = ±  
SURFACE FINISH

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

THIRD ANGLE PROJECTION

|          |          |            |
|----------|----------|------------|
|          | NAME     | DATE       |
| DRAWN    | RS       | 11/26/2022 |
| CHECKED  |          |            |
| APPROVED |          |            |
|          |          |            |
|          |          |            |
| MATERIAL | FINISH   |            |
| SS 316   | Machined |            |

|                 |         |              |
|-----------------|---------|--------------|
| Dr. Pepper Pump |         |              |
| Rotor           |         |              |
| SIZE            | DWG NO. | REV.         |
| B               | 002     | A            |
| SCALE           | 1:1     | SHEET 1 of 1 |

4

3

2

1

D

D

C

C

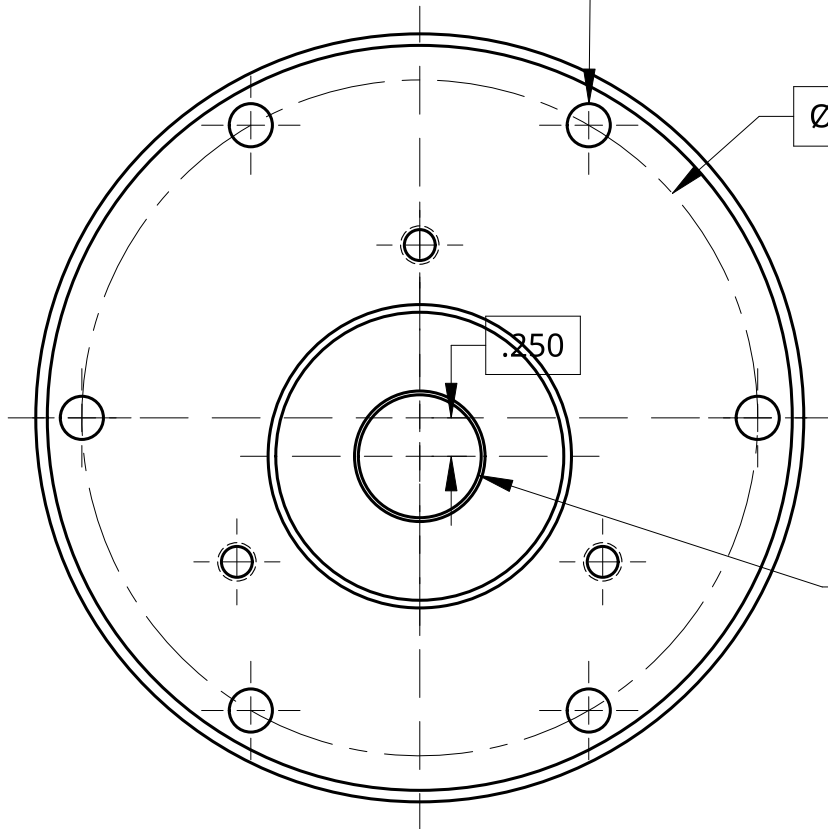
B

B

A

A

6 X Ø.281 THRU ALL EQUALLY SPACED



Ø4.400

.250

Ø.80

Ø.01 A B

C

// .001 B

5.000

B

.575

.1500<sup>+.000</sup><sub>-.001</sub>

A  
0.00035

8

Ø3.8000<sup>+.0000</sup><sub>-.0006</sub>

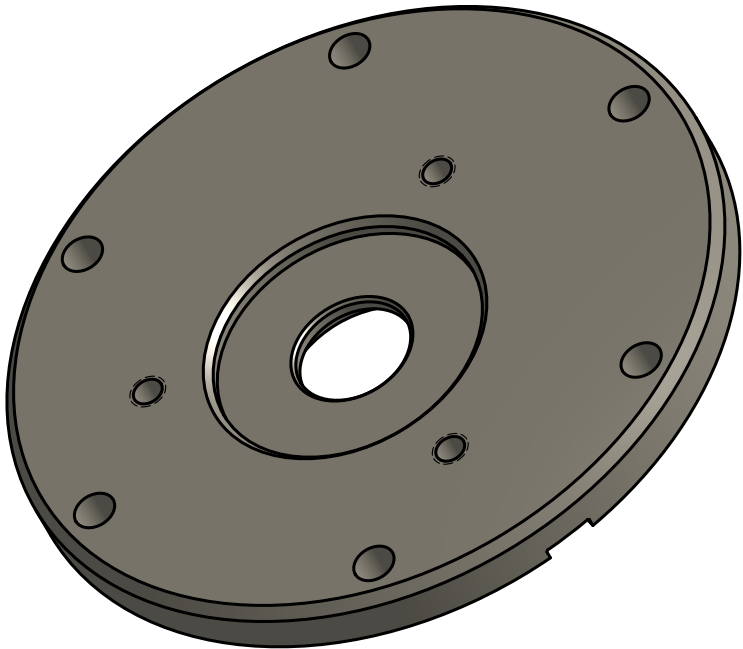
B

0.0005 B

DETAIL A  
SCALE 3:1

3 X .075 X 45°

DETAIL B  
SCALE 2:1.5



UNLESS OTHERWISE SPECIFIED,  
DIMENSIONS ARE IN INCHES

.XX = ±.01-  
.XXX = ±.005-  
.XXXX = ±.0005-  
ANGULAR = ±°  
FRACTIONAL = ±

SURFACE FINISH

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND  
REMOVE BURRS

THIRD ANGLE PROJECTION

|          | NAME     | DATE       |
|----------|----------|------------|
| DRAWN    | RS       | 11/27/2022 |
| CHECKED  |          |            |
| APPROVED |          |            |
|          |          |            |
|          |          |            |
| MATERIAL | FINISH   |            |
| SS 316   | Machined |            |

|                  |         |        |              |
|------------------|---------|--------|--------------|
| Dr. Pepper Pump  |         |        |              |
| Rotor Side Plate |         |        |              |
| SIZE             | DWG NO. | REV.   |              |
| B                | 003     | A      |              |
| SCALE            | 1:2     | WEIGHT | SHEET 1 of 3 |

4

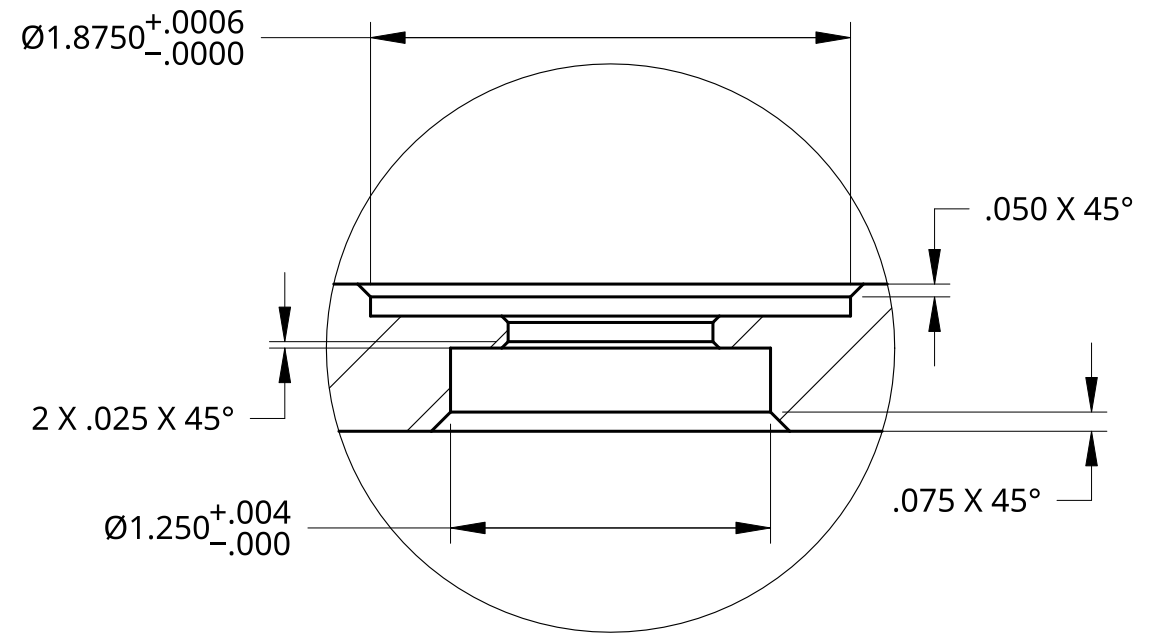
3

2

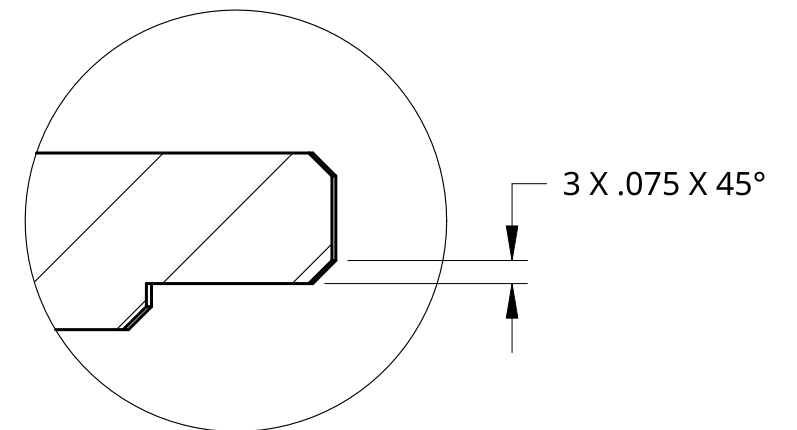
1

1

D



C



# B

A

# A

1

4

3

2

1

D

D

C

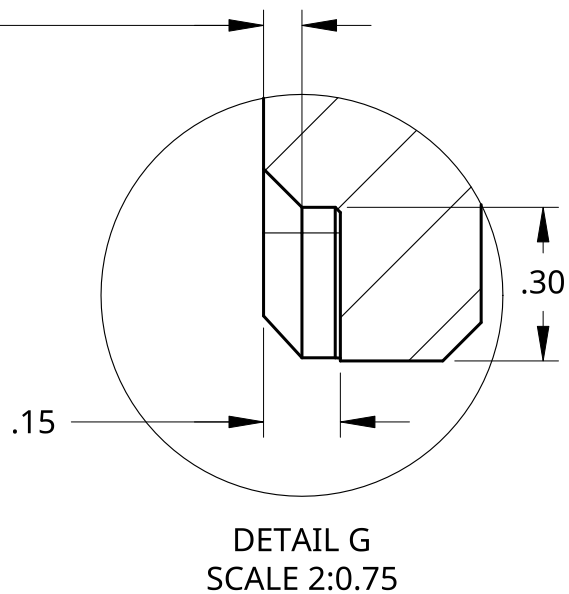
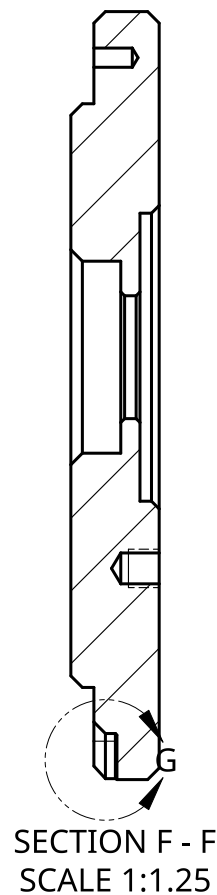
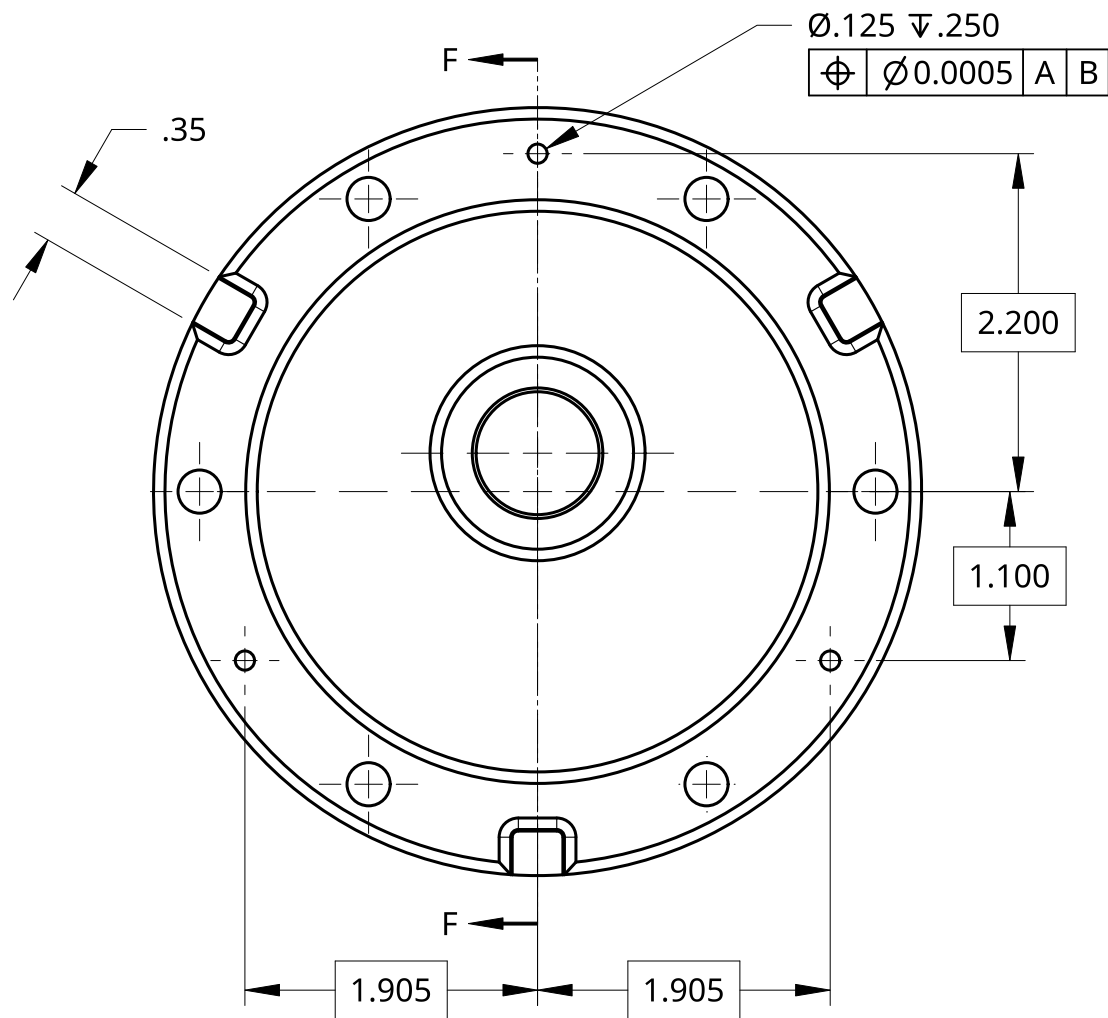
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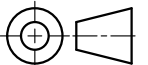
B

B

A

A



|                                                                                                                                                                                                                    |          |          |            |                  |         |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|------------|------------------|---------|--------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH  | NAME     |          | DATE       | Dr. Pepper Pump  |         |        |
|                                                                                                                                                                                                                    | DRAWN    | RS       | 11/27/2022 |                  |         |        |
|                                                                                                                                                                                                                    | CHECKED  |          |            | Rotor Side Plate |         |        |
|                                                                                                                                                                                                                    | APPROVED |          |            |                  |         |        |
|                                                                                                                                                                                                                    |          |          |            |                  |         |        |
| DO NOT SCALE DRAWING                                                                                                                                                                                               |          |          |            | SIZE             | DWG NO. | REV.   |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS                                                                                                                                                                          |          |          |            | B                | 003     | A      |
| THIRD ANGLE PROJECTION                                                                                                        | MATERIAL | FINISH   |            | SCALE            | WEIGHT  | SHEET  |
|                                                                                                                                                                                                                    | SS 316   | Machined |            | 1:2              |         | 3 of 3 |

4

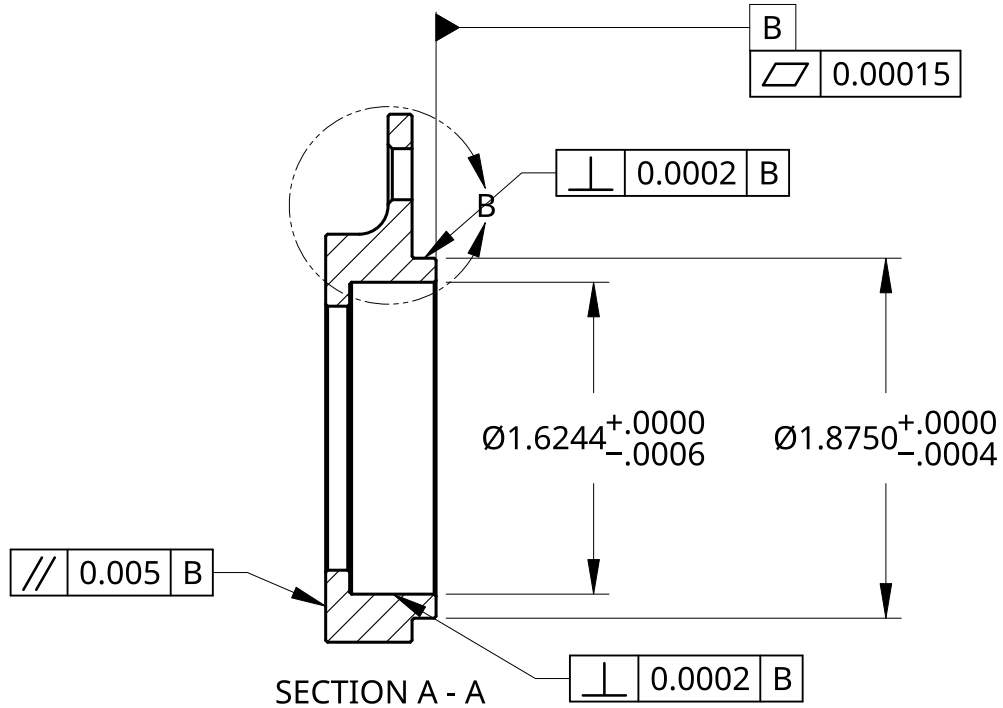
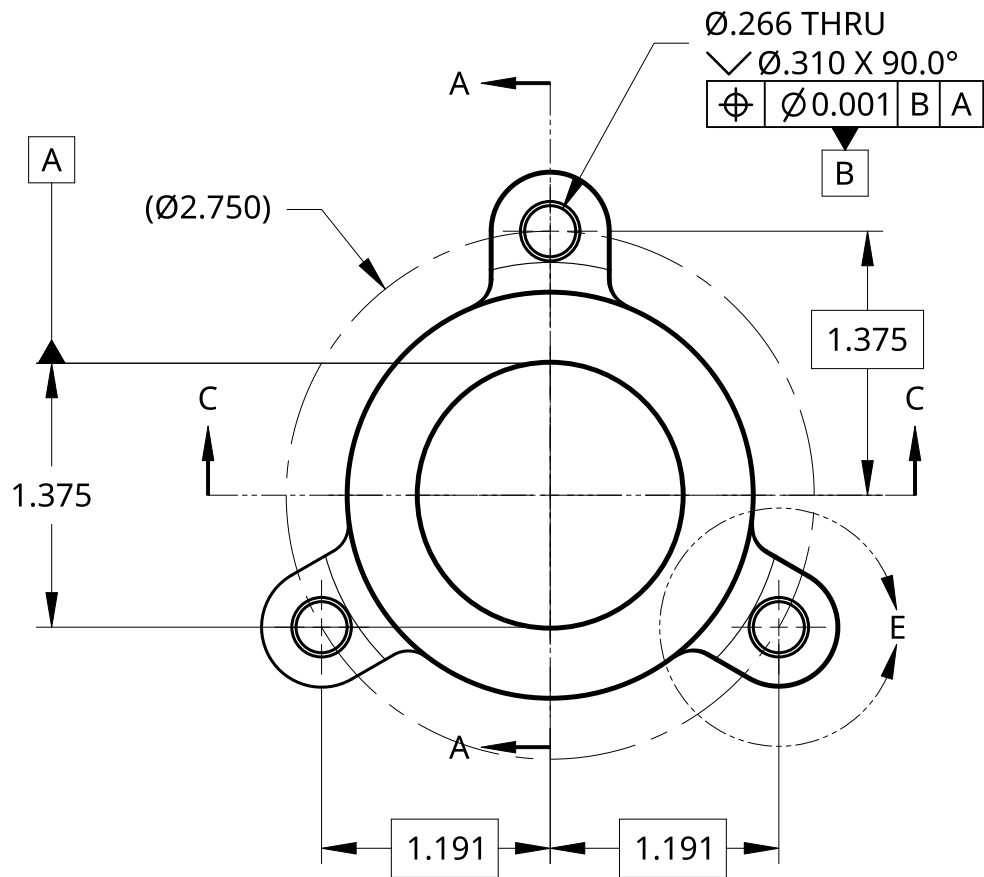
3

2

1

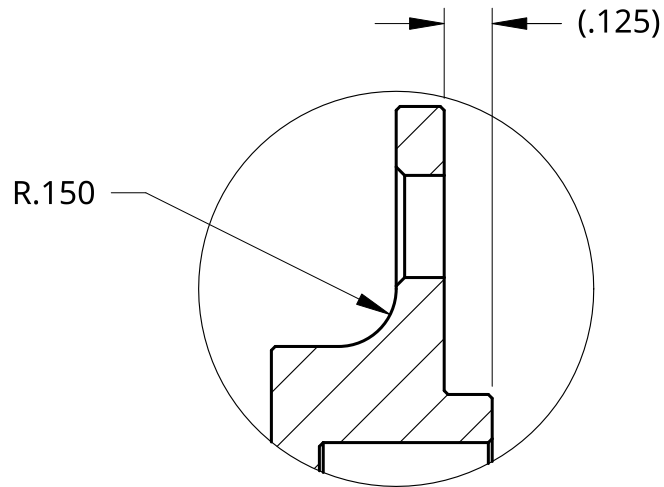
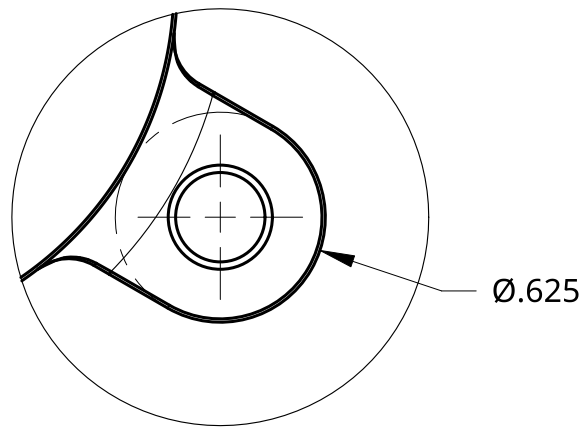
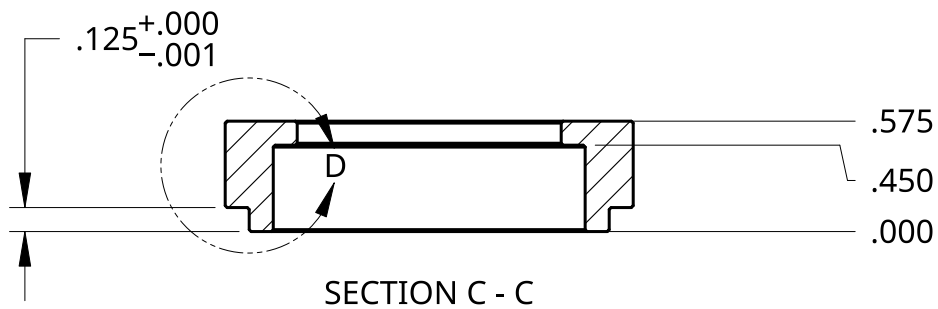
D

D



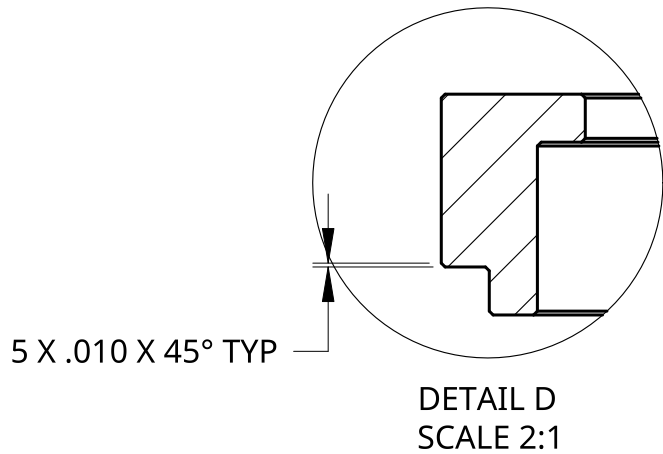
C

C



B

B



DETAIL E  
SCALE 1.75:1

DETAIL B  
SCALE 2:1

A

A

|                                                                                                                                                                                                                                                                    |  |  |  |                                    |                    |                 |     |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------|--------------------|-----------------|-----|-----------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = $\pm 0.01$ -<br>.XXX = $\pm 0.005$ -<br>.XXXX = $\pm 0.0005$ -<br>SURFACE FINISH $\sqrt{\text{ }}$<br>DO NOT SCALE DRAWING<br>BREAK ALL SHARP EDGES AND<br>REMOVE BURRS<br>THIRD ANGLE PROJECTION |  |  |  | NAME<br>RS                         | DATE<br>11/26/2022 | Dr. Pepper Pump |     |           |
|                                                                                                                                                                                                                                                                    |  |  |  | CHECKED                            |                    | TITLE           |     |           |
|                                                                                                                                                                                                                                                                    |  |  |  | APPROVED                           |                    | Bearing Housing |     |           |
|                                                                                                                                                                                                                                                                    |  |  |  | MATERIAL<br>LM6 Aluminium<br>Alloy | FINISH<br>Machined | SIZE<br>B       | 004 | REV.<br>A |
|                                                                                                                                                                                                                                                                    |  |  |  | SCALE<br>1:1                       | WEIGHT             | SHEET<br>1 of 1 |     |           |

4

3

2

1

D

D

C

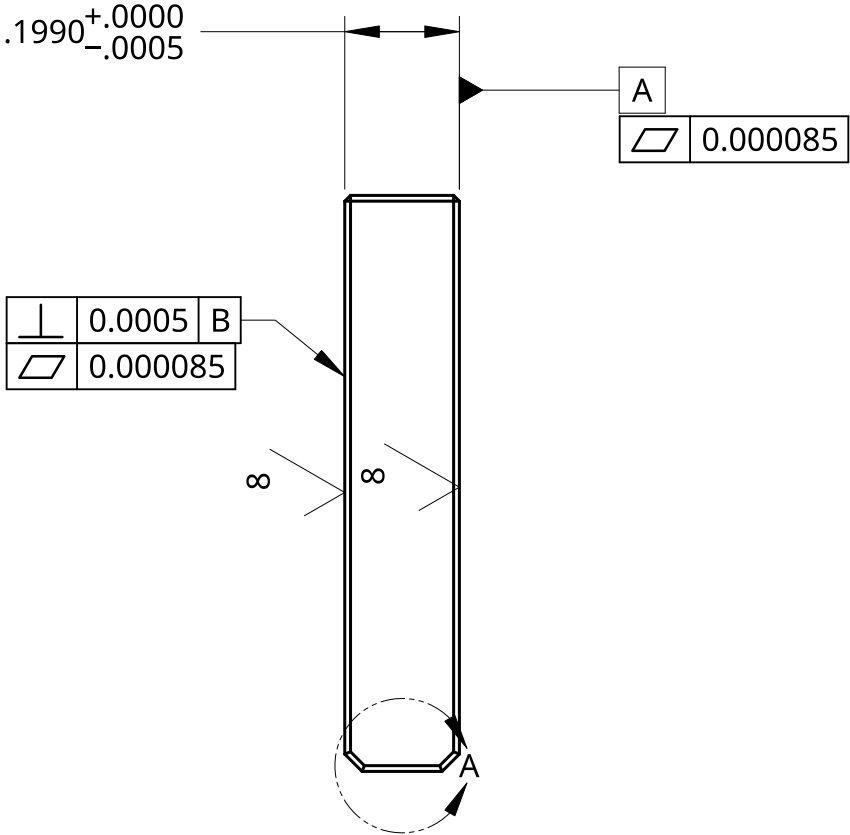
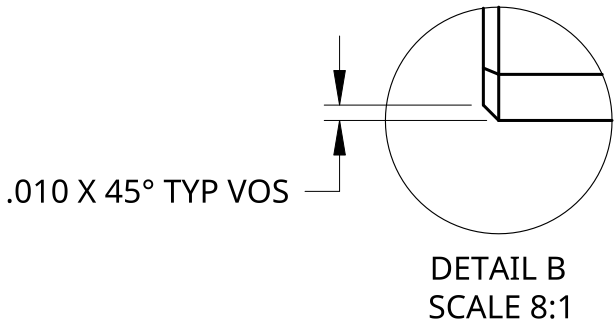
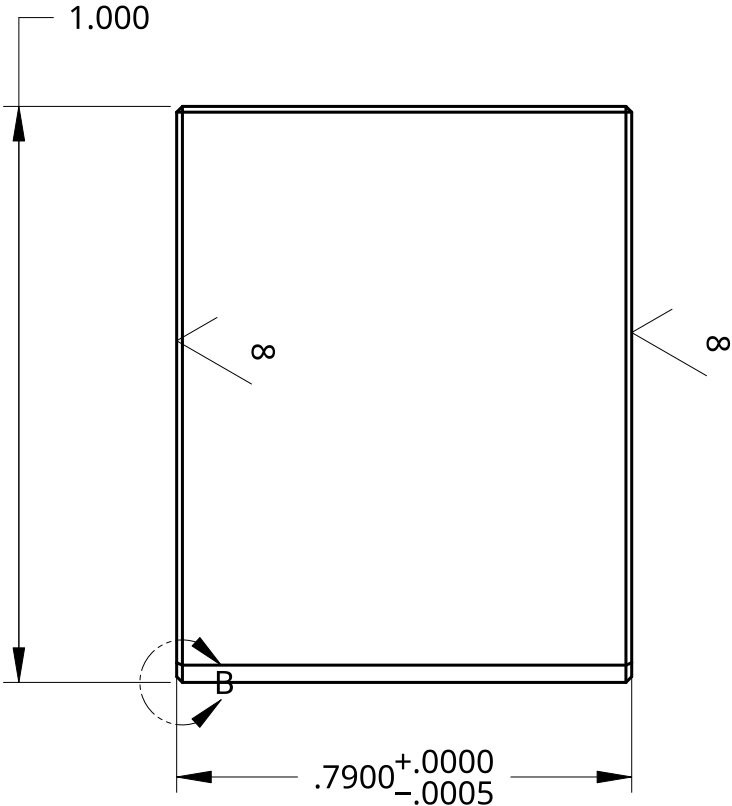
C

B

B

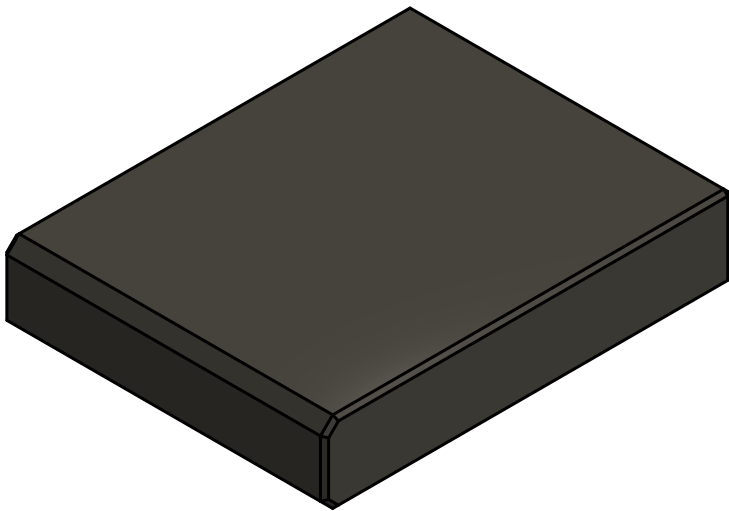
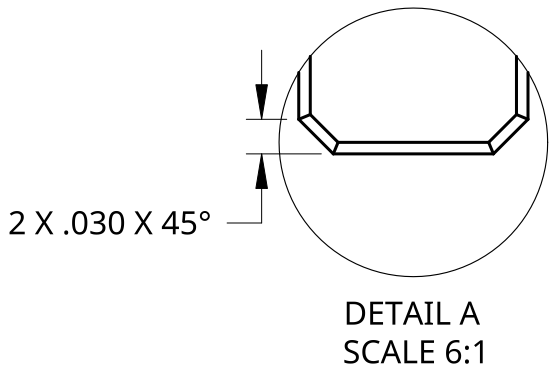
A

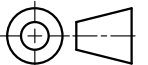
A



|           |          |   |
|-----------|----------|---|
| $\perp$   | 0.0005   | B |
| $\square$ | 0.000085 |   |

|           |          |
|-----------|----------|
| A         |          |
| $\square$ | 0.000085 |



|                                                                                                                                                                                                                                                                                                                                                                                                            |                 |        |            |                 |         |        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------|------------|-----------------|---------|--------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH <br>DO NOT SCALE DRAWING<br>BREAK ALL SHARP EDGES AND<br>REMOVE BURRS<br>THIRD ANGLE PROJECTION<br> |                 | NAME   | DATE       | Dr. Pepper Pump |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            | DRAWN           | RS     | 11/27/2022 | Vane            |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            | CHECKED         |        |            |                 |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            | APPROVED        |        |            |                 |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                 |        |            |                 |         |        |
|                                                                                                                                                                                                                                                                                                                                                                                                            | MATERIAL        | FINISH |            | SIZE            | DWG NO. | REV.   |
|                                                                                                                                                                                                                                                                                                                                                                                                            | Carbon Graphite | Ground |            | B               | 005     | A      |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                 |        |            | SCALE           | 3:1     | SHEET  |
|                                                                                                                                                                                                                                                                                                                                                                                                            |                 |        |            |                 |         | 1 of 1 |

4

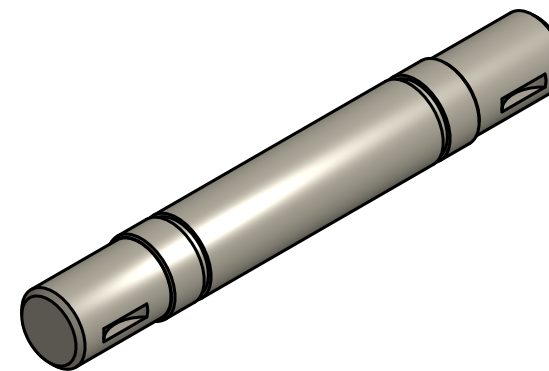
3

2

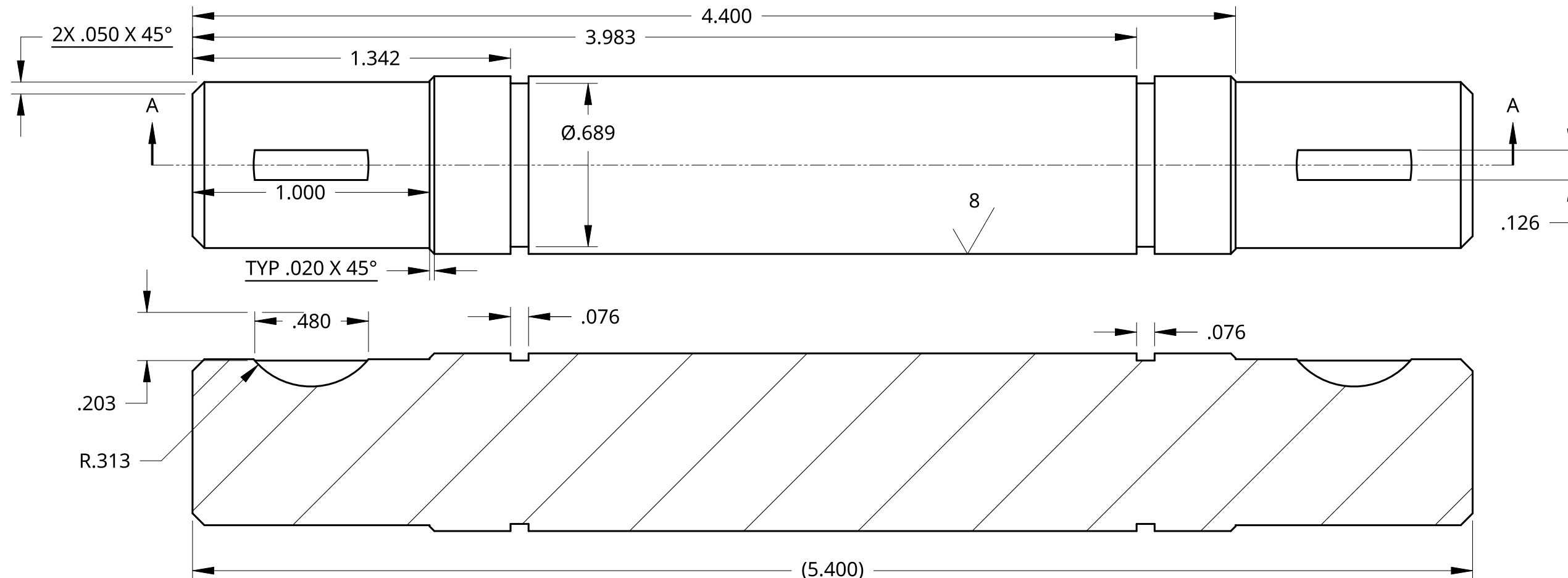
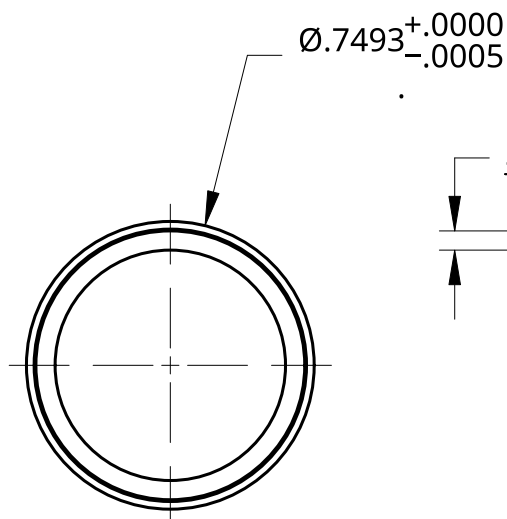
1

1

D



C



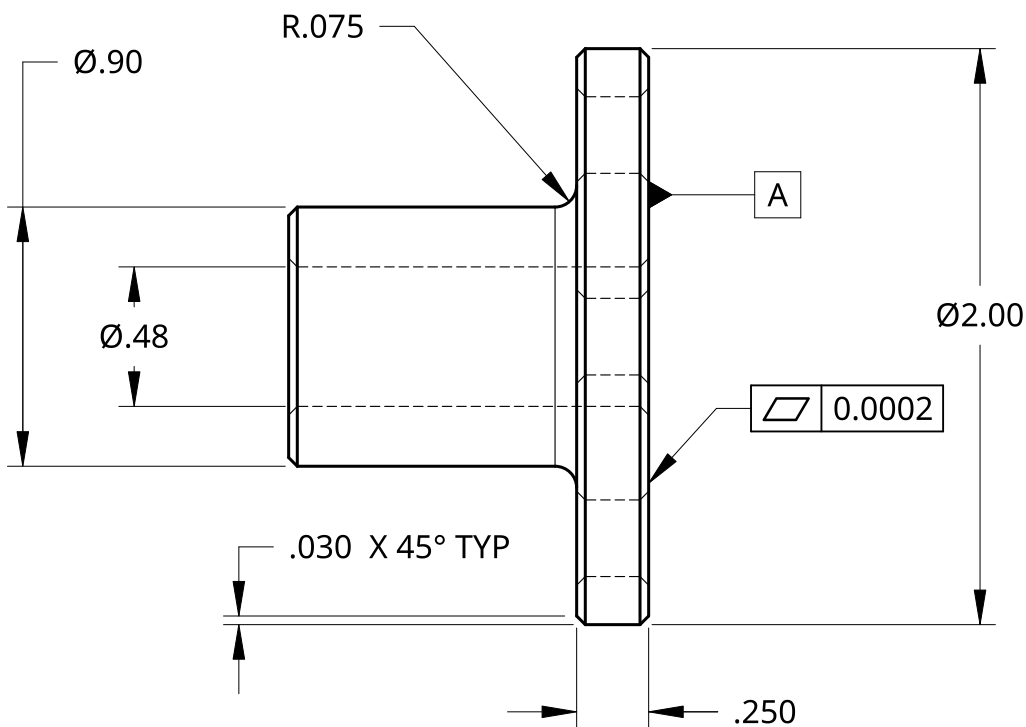
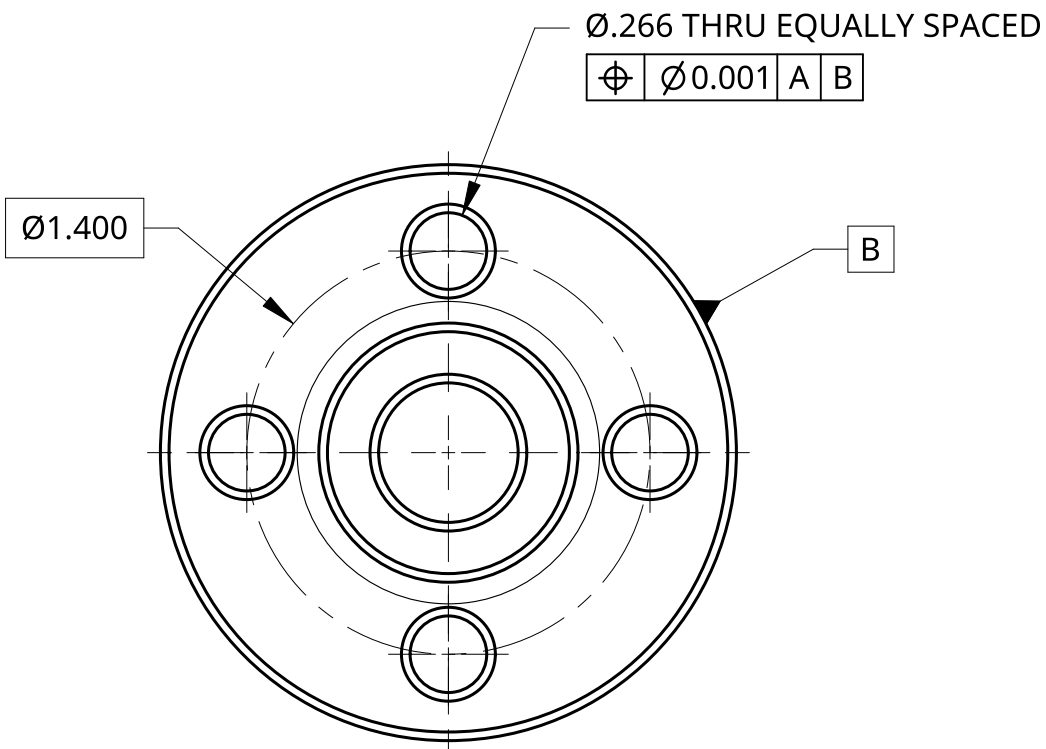
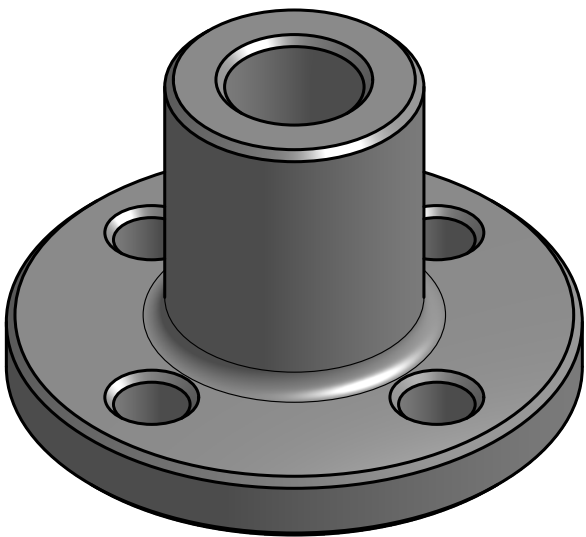
# B

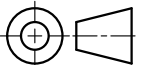
A

## SECTION A - A

|                                                                                                                                                                                                                                   |          |          |               |            |                                             |         |        |        |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|---------------|------------|---------------------------------------------|---------|--------|--------|-------|
| <div>UNLESS OTHERWISE SPECIFIED,<br/>DIMENSIONS ARE IN INCHES</div> <div><div>.XX = ±.01</div><div>.XXX = ±.005</div><div>.XXXX = ±.0005</div></div> <div>ANGULAR = ± °</div> <div>FRACTIONAL = ±</div> <div>SURFACE FINISH</div> |          |          | NAME          | DATE       | <div>Dr. Pepper Pump</div> <div>Shaft</div> |         |        |        |       |
|                                                                                                                                                                                                                                   |          | DRAWN    | JOSEPH VETERE | 12/04/2022 |                                             |         |        |        |       |
|                                                                                                                                                                                                                                   |          | CHECKED  |               |            |                                             |         |        |        | TITLE |
|                                                                                                                                                                                                                                   |          | APPROVED |               |            |                                             |         |        |        |       |
| DO NOT SCALE DRAWING                                                                                                                                                                                                              |          |          |               |            | SIZE                                        | DWG NO. | REV.   |        |       |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS                                                                                                                                                                                         |          |          |               |            | B                                           | 006     | A      |        |       |
| THIRD ANGLE PROJECTION                                                                                                                                                                                                            | MATERIAL | FINISH   | SCALE         |            |                                             |         |        | WEIGHT | SHEET |
|                                                                                                                                                                                                                                   | SS 316   | Machined | 2:1           |            |                                             |         | 1 of 1 |        |       |

1



|                                                                                                                                                                                                                    |          |    |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----|-----------------|
| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES<br>.XX = ±.01-<br>.XXX = ±.005-<br>.XXXX = ±.0005-<br>SURFACE FINISH  | NAME     |    | DATE            |
|                                                                                                                                                                                                                    | DRAWN    | RS | 12/09/2022      |
|                                                                                                                                                                                                                    | CHECKED  |    |                 |
|                                                                                                                                                                                                                    | APPROVED |    |                 |
| DO NOT SCALE DRAWING                                                                                                                                                                                               |          |    |                 |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS                                                                                                                                                                          |          |    |                 |
| THIRD ANGLE PROJECTION                                                                                                                                                                                             | MATERIAL |    | FINISH          |
|                                                                                                                               | SS 316   |    | Electropolished |

|          |    |                 |
|----------|----|-----------------|
| NAME     |    | DATE            |
| DRAWN    | RS | 12/09/2022      |
| CHECKED  |    |                 |
| APPROVED |    |                 |
|          |    |                 |
|          |    |                 |
| MATERIAL |    | FINISH          |
| SS 316   |    | Electropolished |

|                     |         |        |              |
|---------------------|---------|--------|--------------|
| Dr. Pepper Pump     |         |        |              |
| NPT Pipe Connection |         |        |              |
| SIZE                | DWG NO. | REV.   |              |
| B                   | 007     | A      |              |
| SCALE               | 2:1     | WEIGHT | SHEET 1 of 1 |