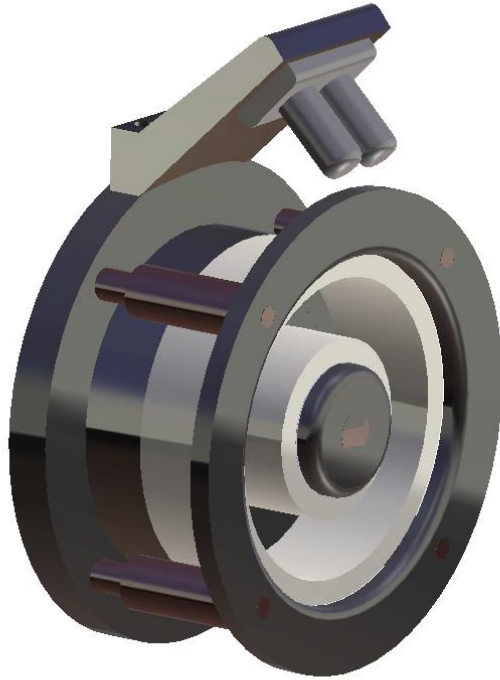
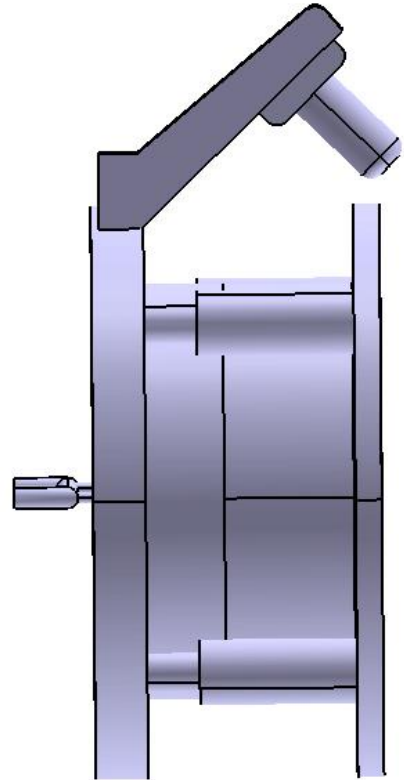
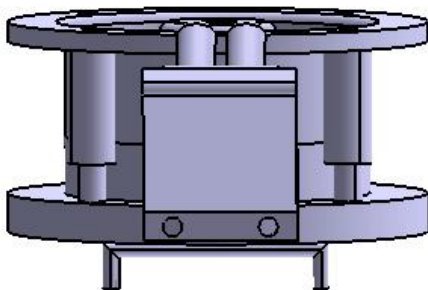
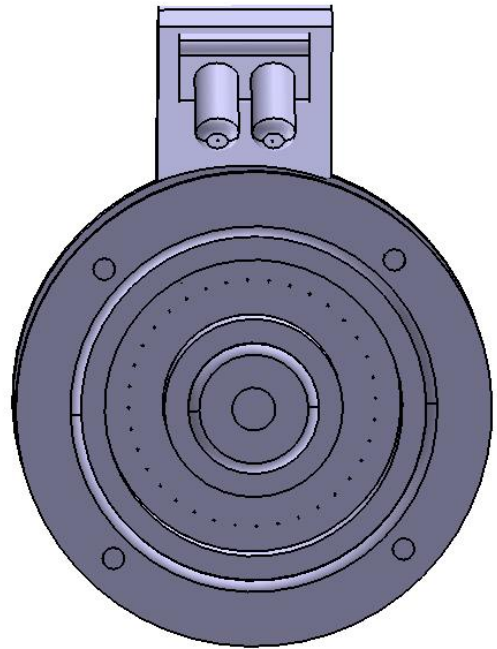
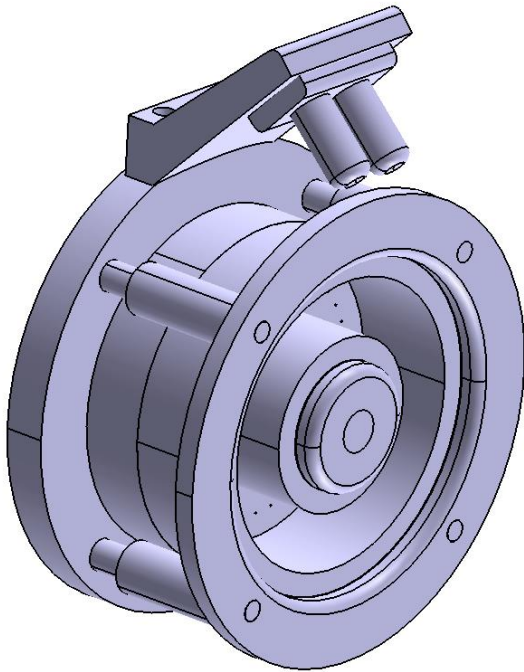
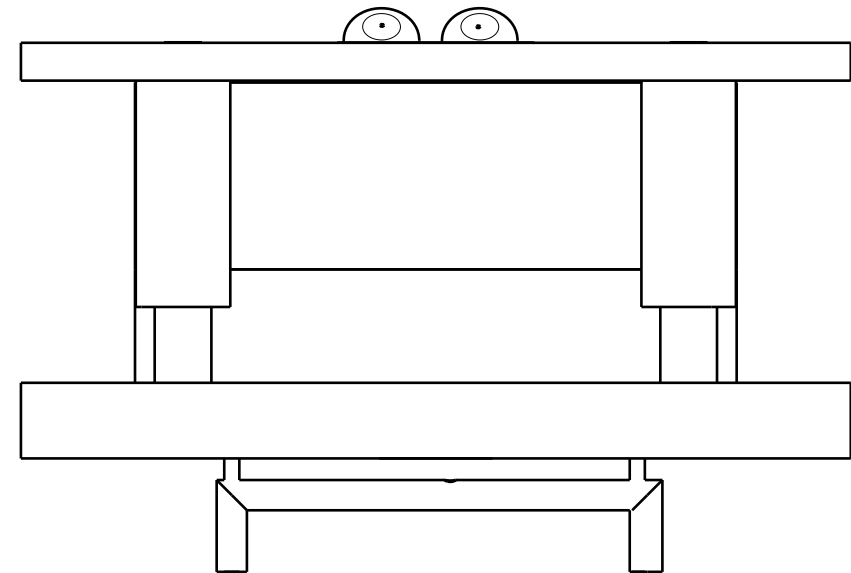
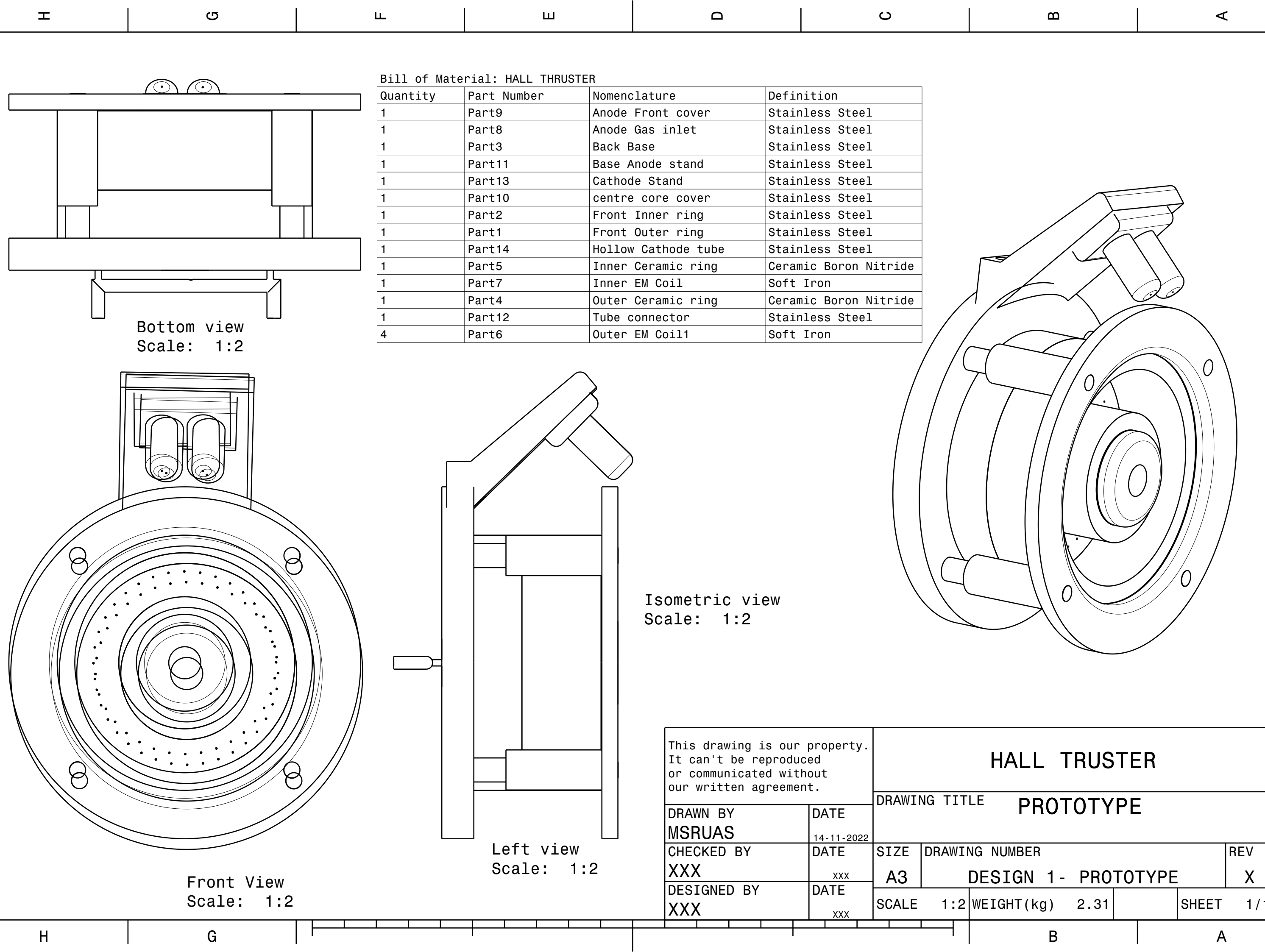

HALL-EFFECT THRUSTER



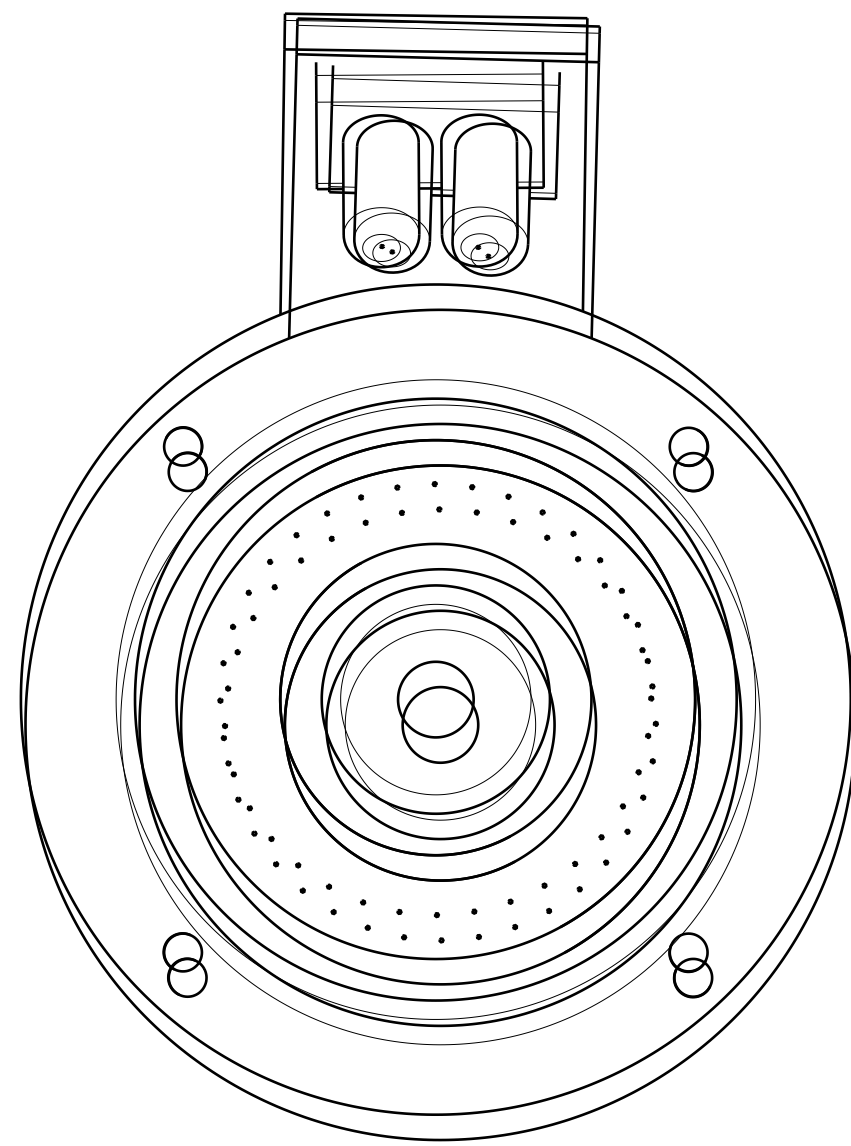
THRUSTER CAD MODEL & COMPONENTS DRAFT

FINAL ASSEMBLY

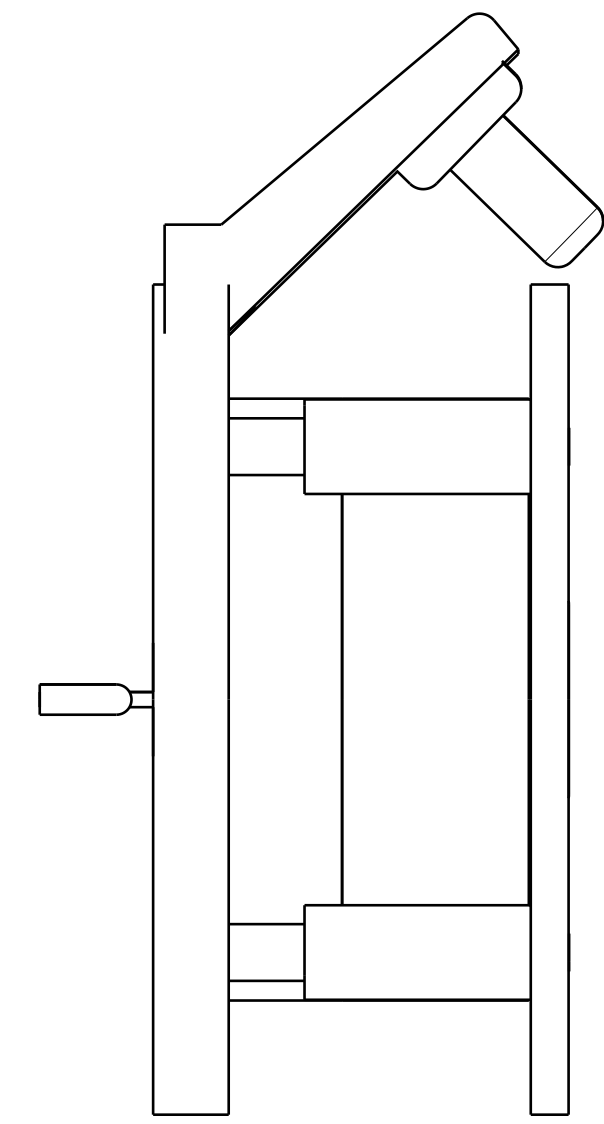




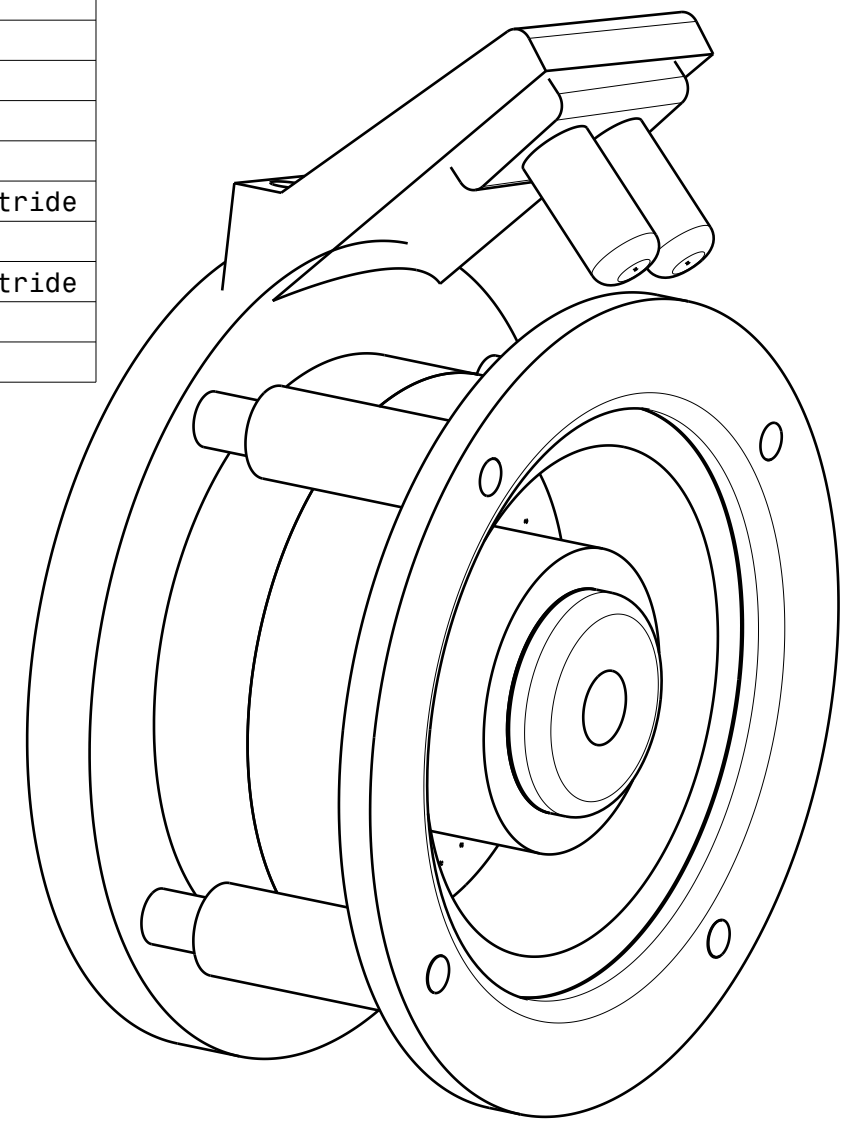
Bottom view
Scale: 1:2



Front View
Scale: 1:2



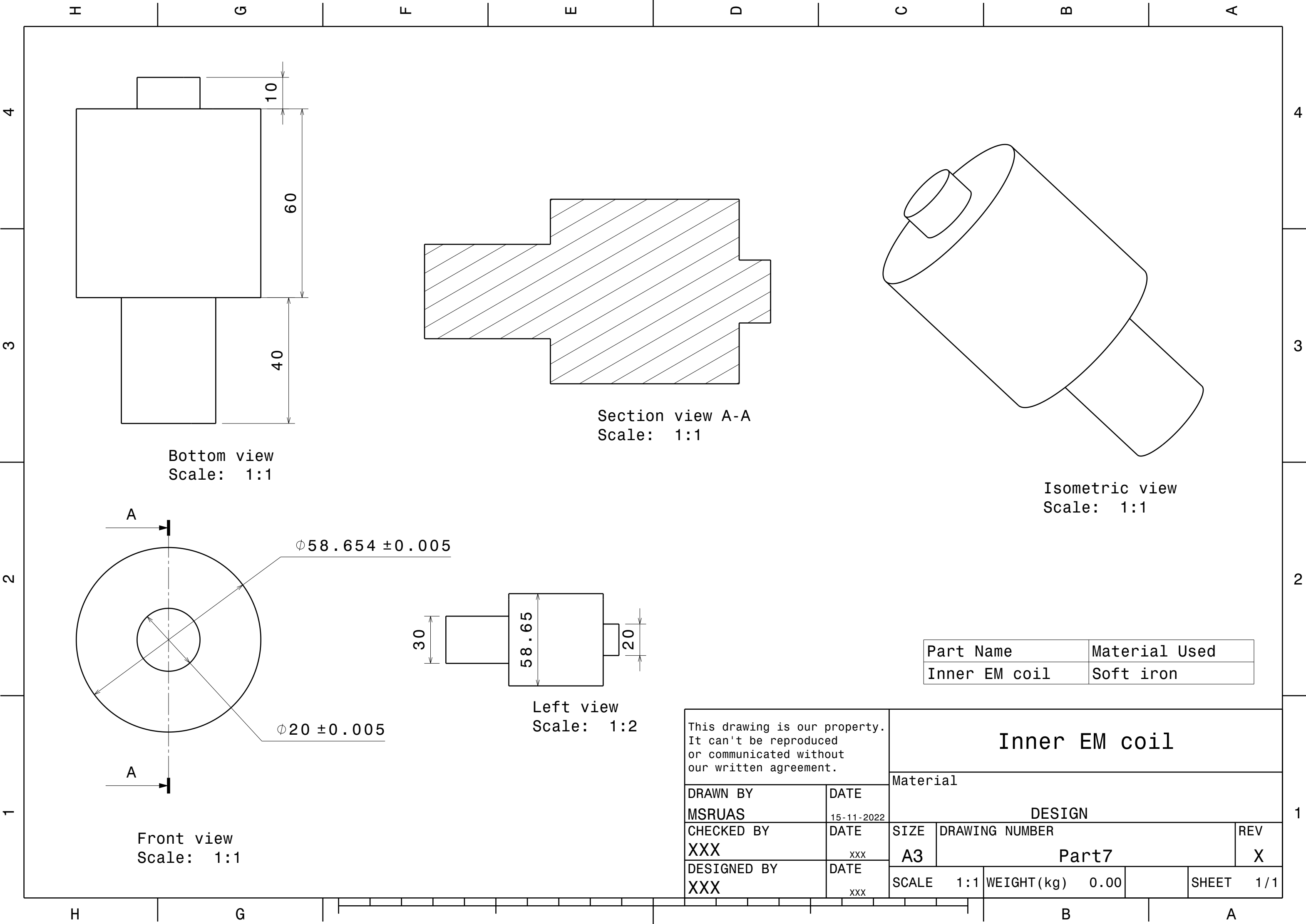
Left view
Scale: 1:2

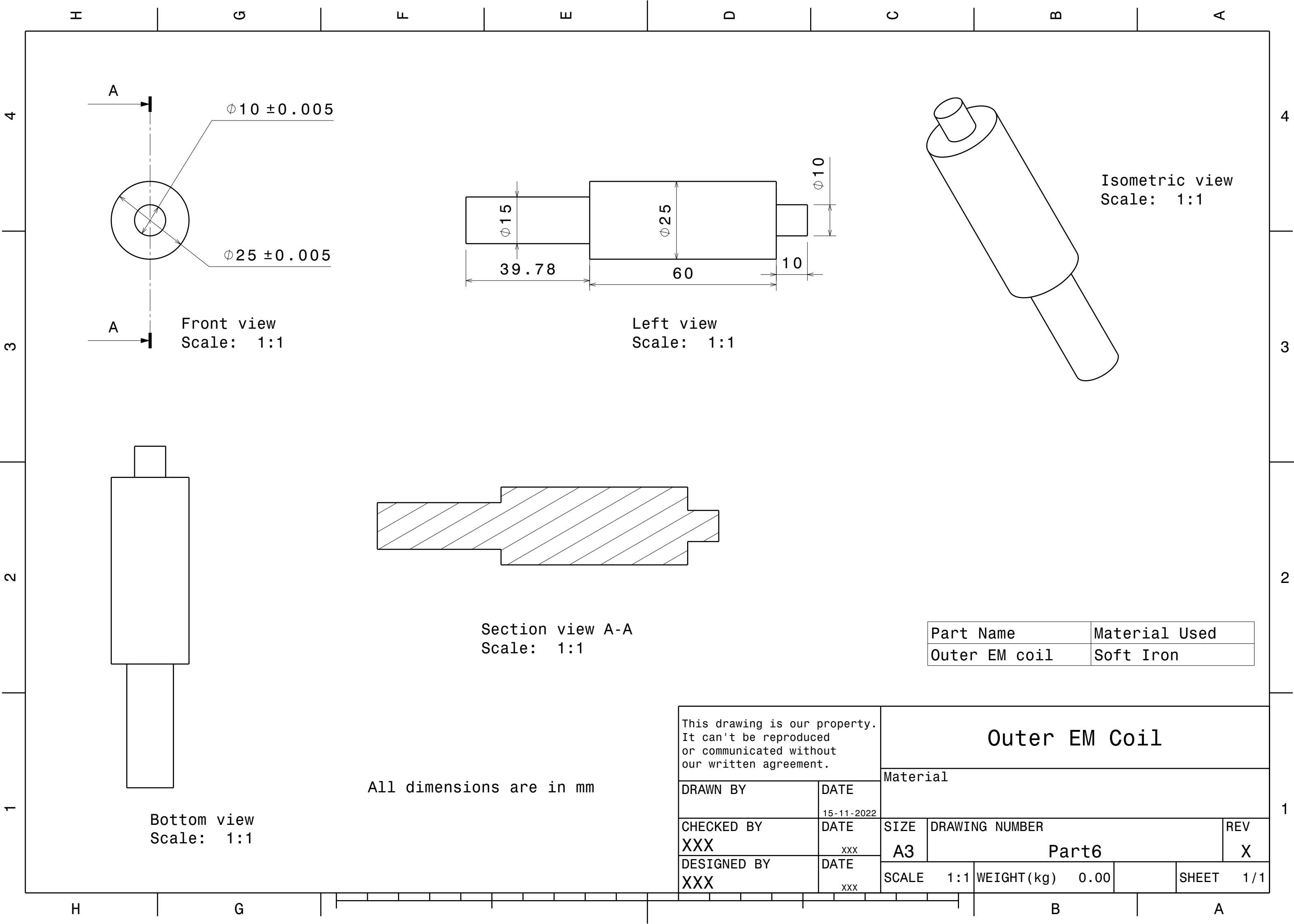


Isometric view
Scale: 1:2

| Bill of Material: HALL THRUSTER | | | |
|---------------------------------|-------------|---------------------|-----------------------|
| Quantity | Part Number | Nomenclature | Definition |
| 1 | Part9 | Anode Front cover | Stainless Steel |
| 1 | Part8 | Anode Gas inlet | Stainless Steel |
| 1 | Part3 | Back Base | Stainless Steel |
| 1 | Part11 | Base Anode stand | Stainless Steel |
| 1 | Part13 | Cathode Stand | Stainless Steel |
| 1 | Part10 | centre core cover | Stainless Steel |
| 1 | Part2 | Front Inner ring | Stainless Steel |
| 1 | Part1 | Front Outer ring | Stainless Steel |
| 1 | Part14 | Hollow Cathode tube | Stainless Steel |
| 1 | Part5 | Inner Ceramic ring | Ceramic Boron Nitride |
| 1 | Part7 | Inner EM Coil | Soft Iron |
| 1 | Part4 | Outer Ceramic ring | Ceramic Boron Nitride |
| 1 | Part12 | Tube connector | Stainless Steel |
| 4 | Part6 | Outer EM Coil1 | Soft Iron |

| | | | | | |
|--------------------------------------------------------------------------------------------------------------|--------------------|------------------------------|---------------------------------------|--------------|----------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | HALL TRUSTER | | | |
| | | DRAWING TITLE PROTOTYPE | | | |
| DRAWN BY MSRUAS | DATE 14-11-2022 | SIZE A3 | DRAWING NUMBER DESIGN 1- PROTOTYPE | | REV X |
| CHECKED BY XXX | DATE xxx | SCALE 1:2 | WEIGHT (kg) 2.31 | SHEET 1/1 | |
| DESIGNED BY XXX | DATE xxx | | | | |





| Part Name | Material Used |
|---------------|---------------|
| Outer EM coil | Soft Iron |

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------|--------------------|---------------|-------------------------|--|--|-----------|----------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | Outer EM Coil | | | | | |
| | | Material | | | | | |
| DRAWN BY | DATE 15-11-2022 | | | | | | |
| CHECKED BY XXX | DATE XXX | SIZE A3 | DRAWING NUMBER Part6 | | | | REV X |
| DESIGNED BY XXX | DATE XXX | SCALE 1:1 | WEIGHT(kg) 0.00 | | | SHEET 1/1 | |

All dimensions are in mm

4

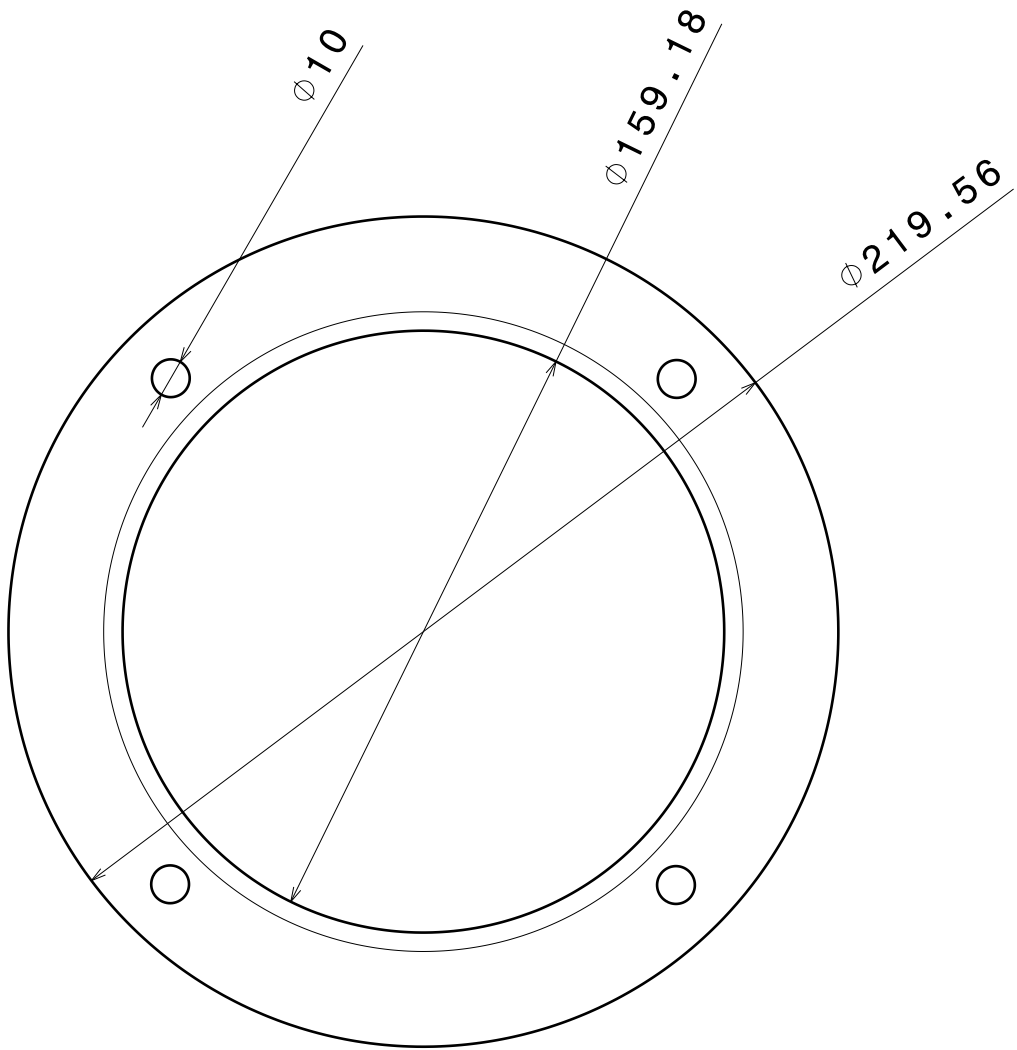
3

2

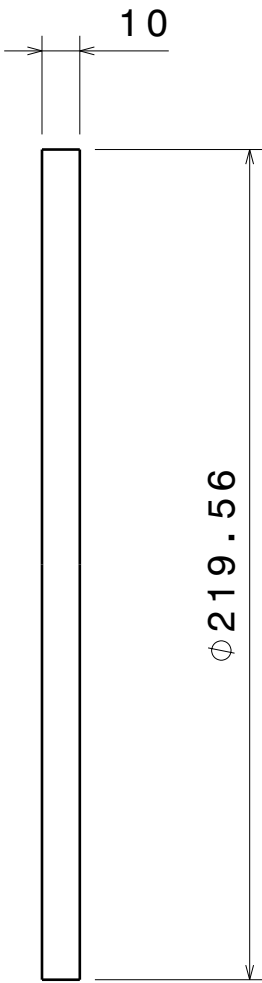
1

H G F E D C B A

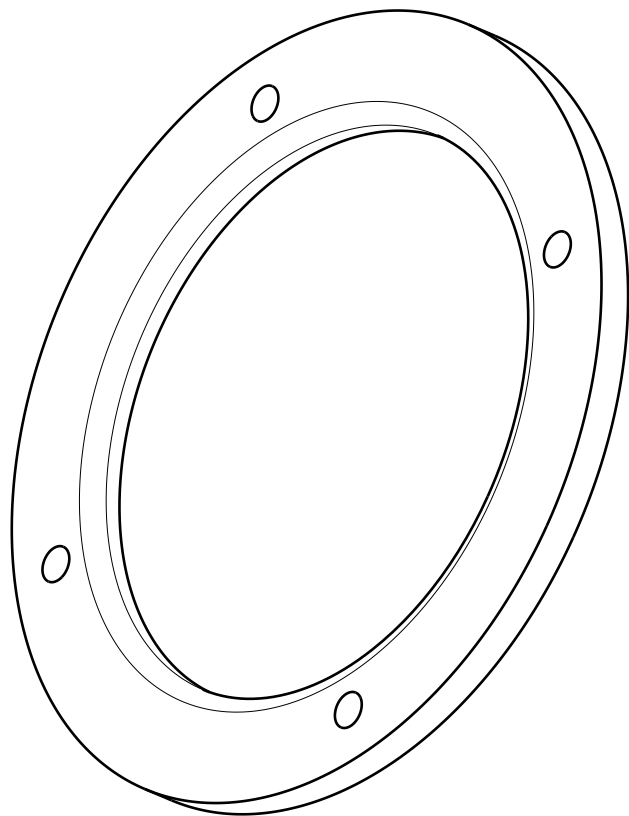
| | |
|------------------|-----------------|
| Part name | Material used |
| front outer ring | stainless steel |



Front view
Scale: 1:2



Left view
Scale: 1:2



Isometric view
Scale: 1:2

| | | | | | |
|-----------------------------------------------------------------------------------------------------|--------------------|------------------|---------------------|--------------|----------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | Front outer ring | | | |
| | | DRAWING TITLE | | | |
| DRAWN BY MSRUAS | DATE 15-11-2022 | DESIGN | | | |
| CHECKED BY XXX | DATE xxx | SIZE A3 | DRAWING NUMBER 1 | | REV X |
| DESIGNED BY XXX | DATE xxx | SCALE 1:1 | WEIGHT (kg) 1.37 | SHEET 1/1 | |

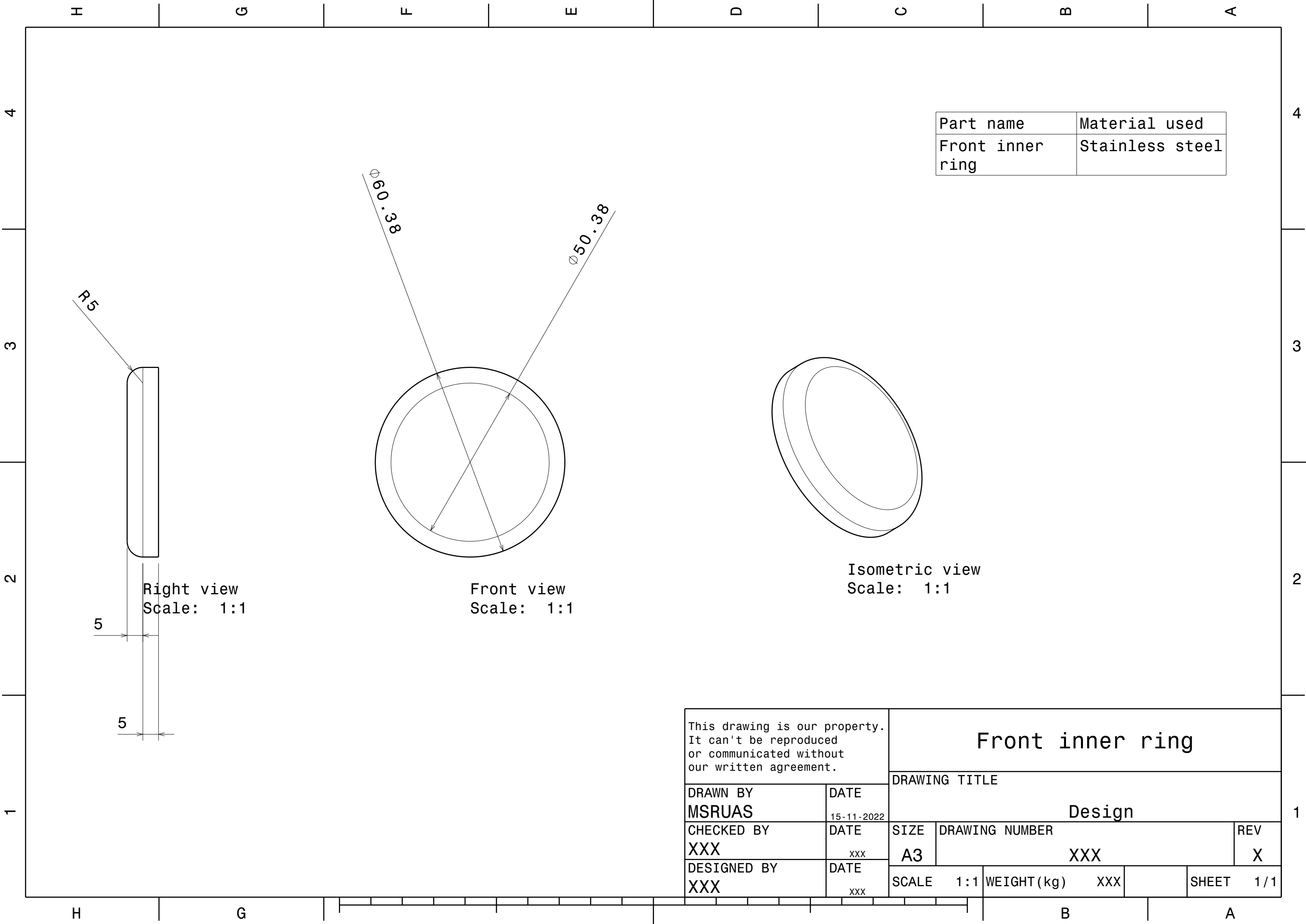
H G F E D C B A

4

3

2

1



4

4

3

3

2

2

1

1

H G F E D C B A

131.22 ±0.05

5

Front view
Scale: 1:2

Right view
Scale: 1:1

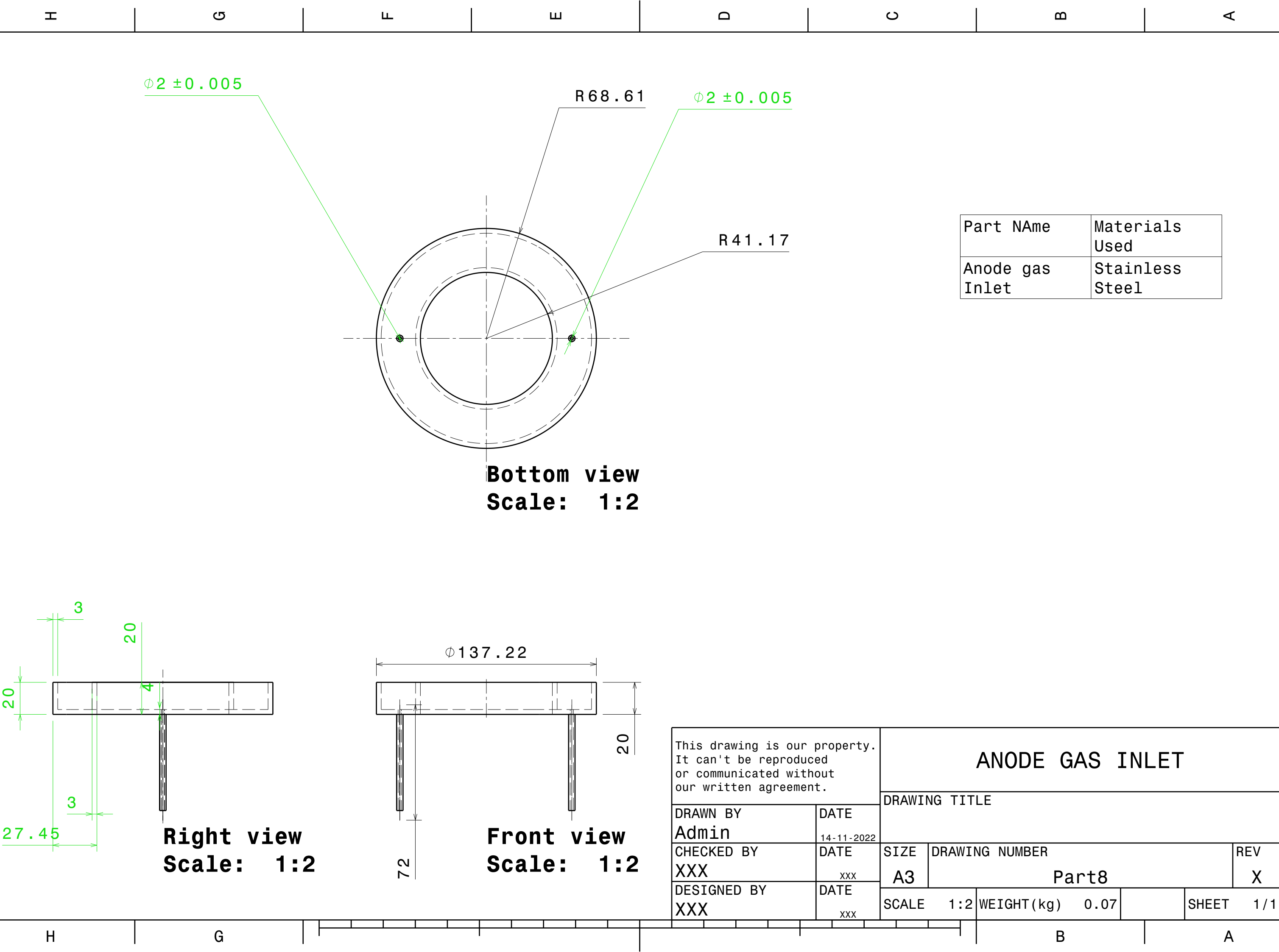
Rear view
Scale: 1:1

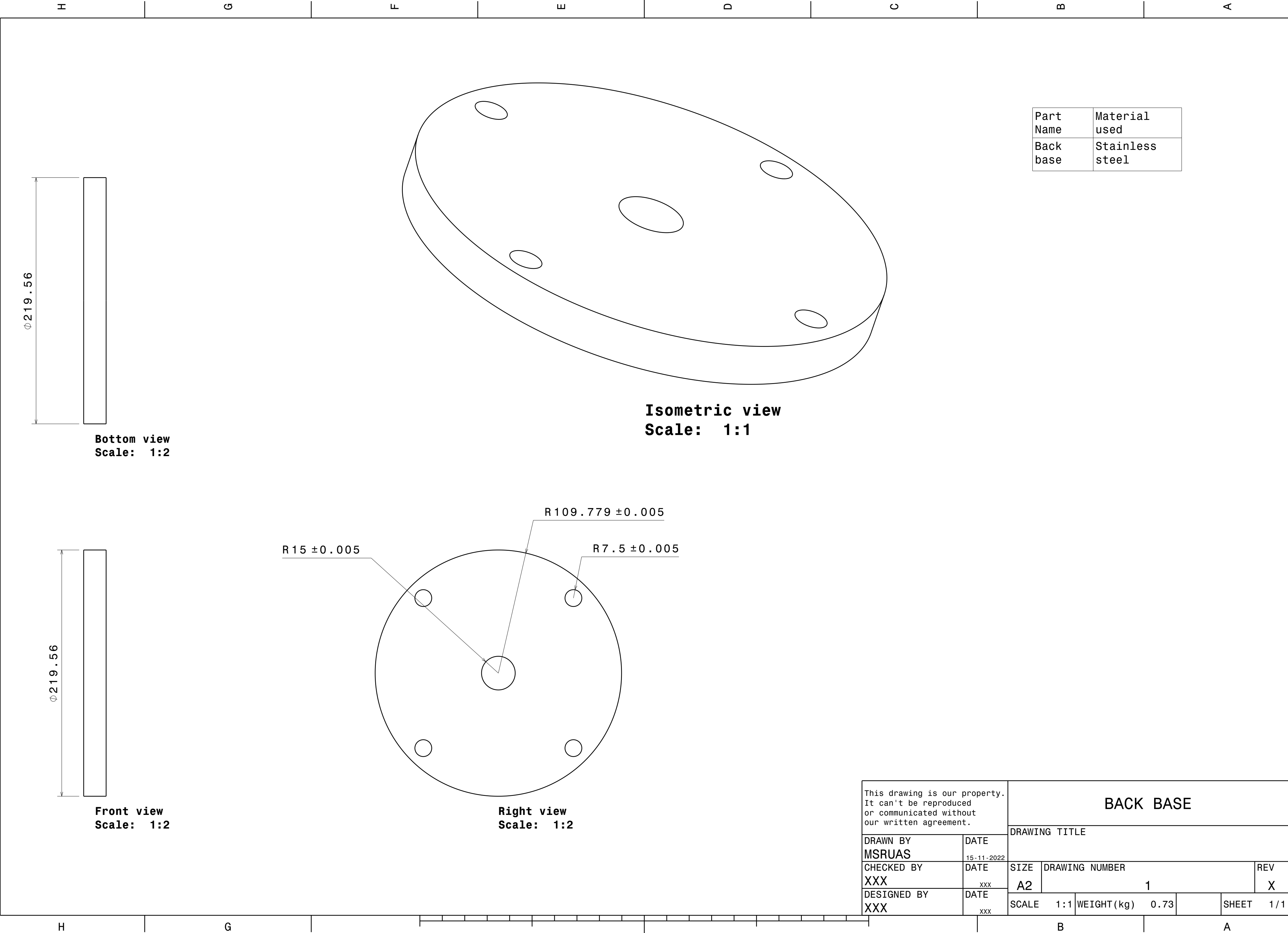
Isometric view
Scale: 1:1

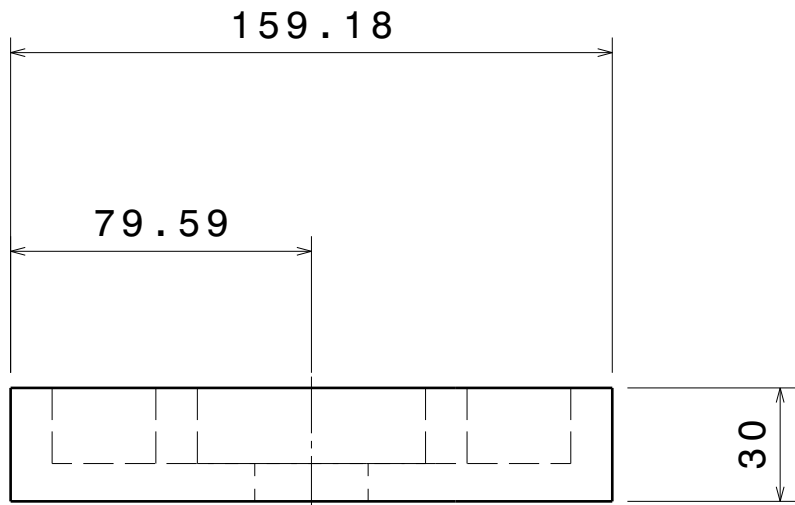
| | |
|-------------------|-----------------|
| Part name | Material used |
| Anode front cover | Stainless steel |

| | | | | | |
|--------------------------------------------------------------------------------------------------------------|--------------------|-------------------|---------------------|--|--------------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | Anode front cover | | | |
| | | DRAWING TITLE | | | |
| DRAWN BY MSRUAS | DATE 15-11-2022 | Design | | | |
| CHECKED BY XXX | DATE xxx | SIZE A3 | DRAWING NUMBER 9 | | REV X |
| DESIGNED BY XXX | DATE xxx | SCALE 1:1 | WEIGHT (kg) 0.10 | | SHEET 1/1 |

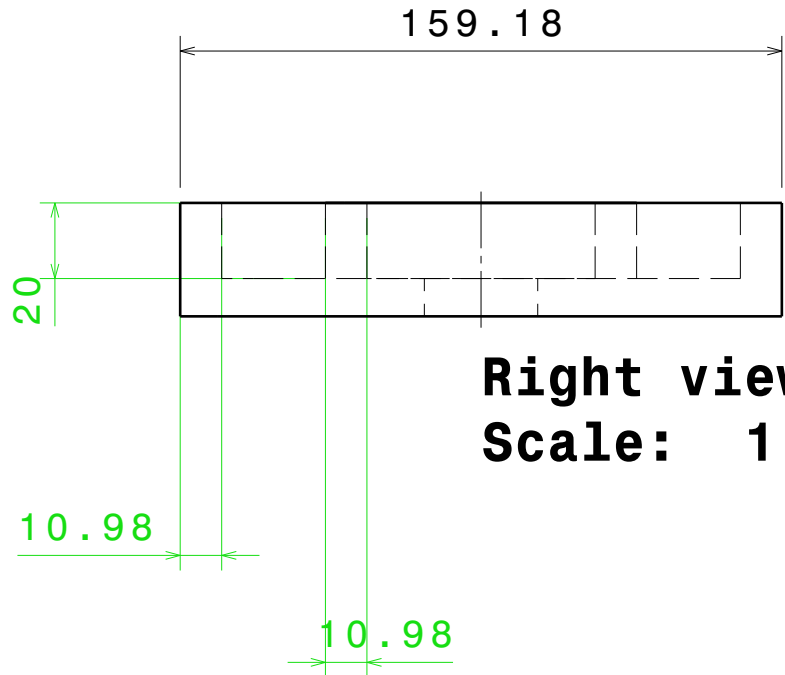
H G



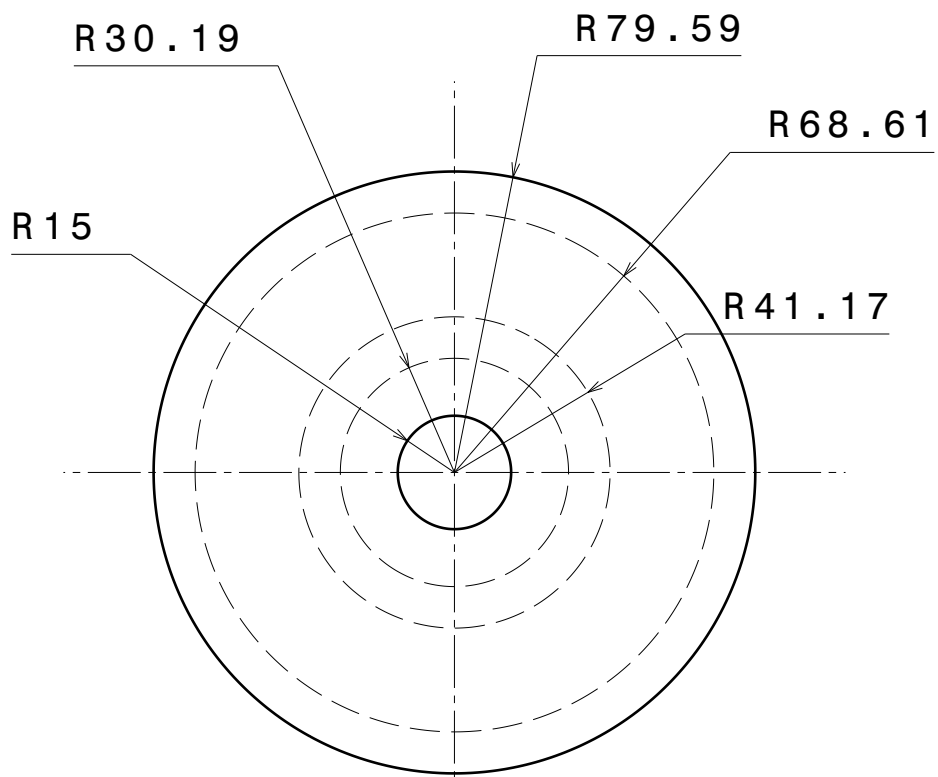




Front view
Scale: 1:2



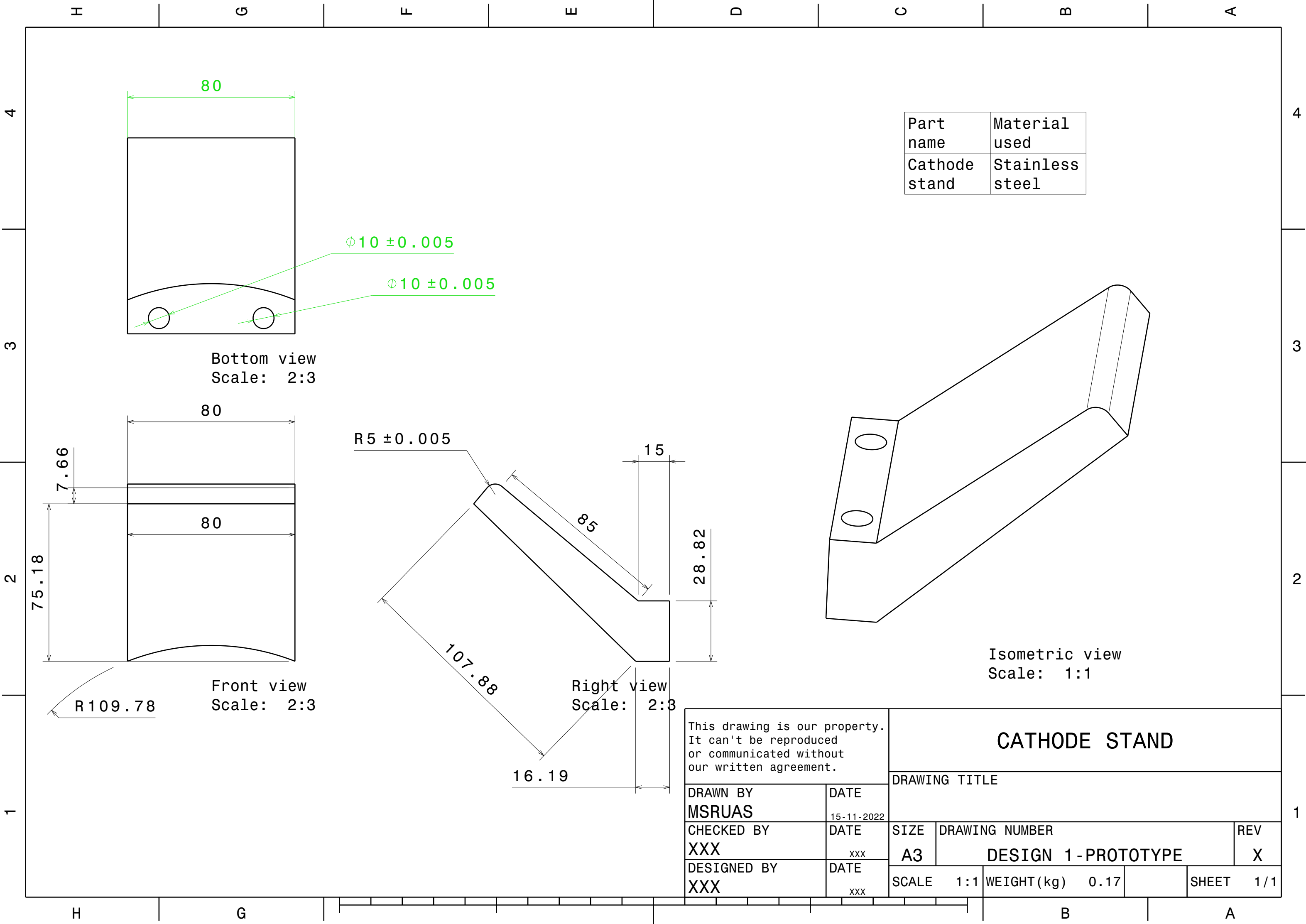
Right view
Scale: 1:2



Bottom view
Scale: 1:2

| | |
|------------------|-----------------|
| Part Name | Materials Used |
| Base Anode stand | Stainless steel |

| | | | | | |
|-----------------------------------------------------------------------------------------------------|--------------------|------------------|--------------------------|--|--------------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | BASE ANODE STAND | | | |
| | | DRAWING TITLE | | | |
| DRAWN BY Admin | DATE 15-11-2022 | | | | |
| CHECKED BY XXX | DATE xxx | SIZE A3 | DRAWING NUMBER Part11 | | REV X |
| DESIGNED BY XXX | DATE xxx | SCALE 1:1 | WEIGHT (kg) 0.34 | | SHEET 1/1 |



4

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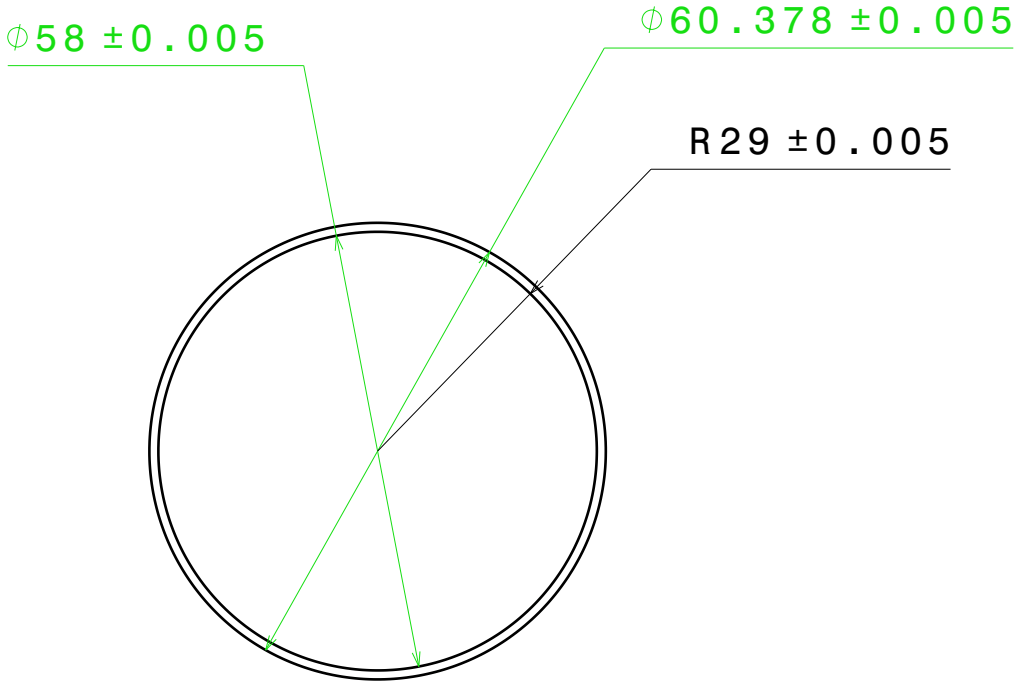
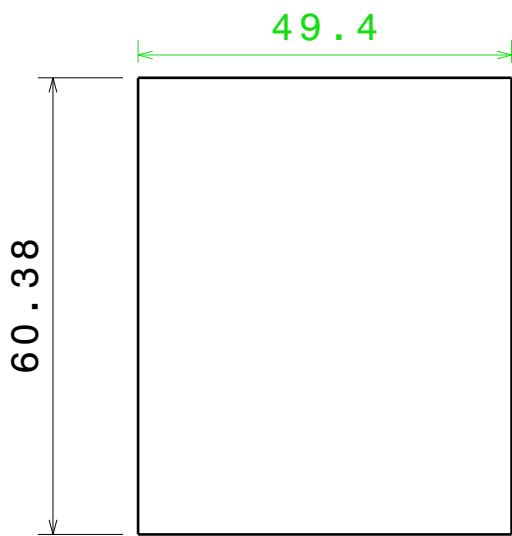
E

D

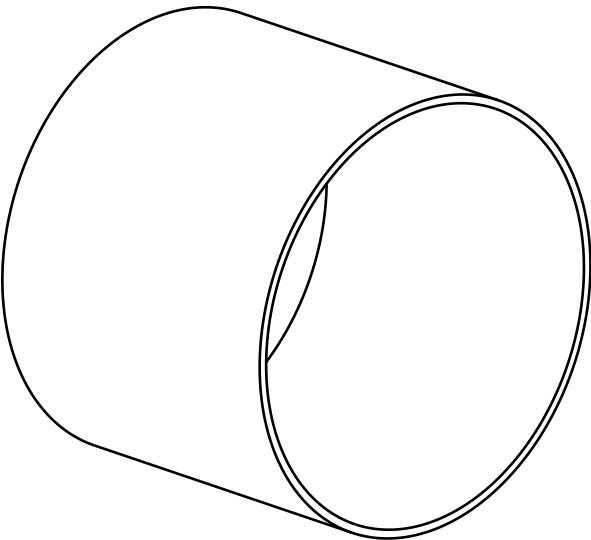
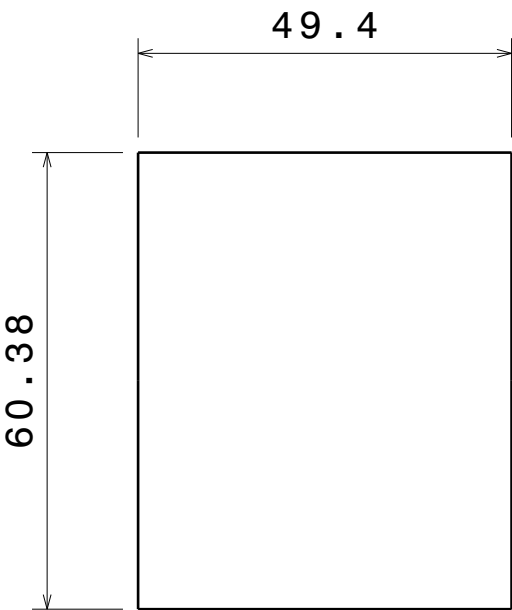
C

B

A



| Part name | Material used |
|-------------------|-----------------|
| Centre core cover | Stainless Steel |



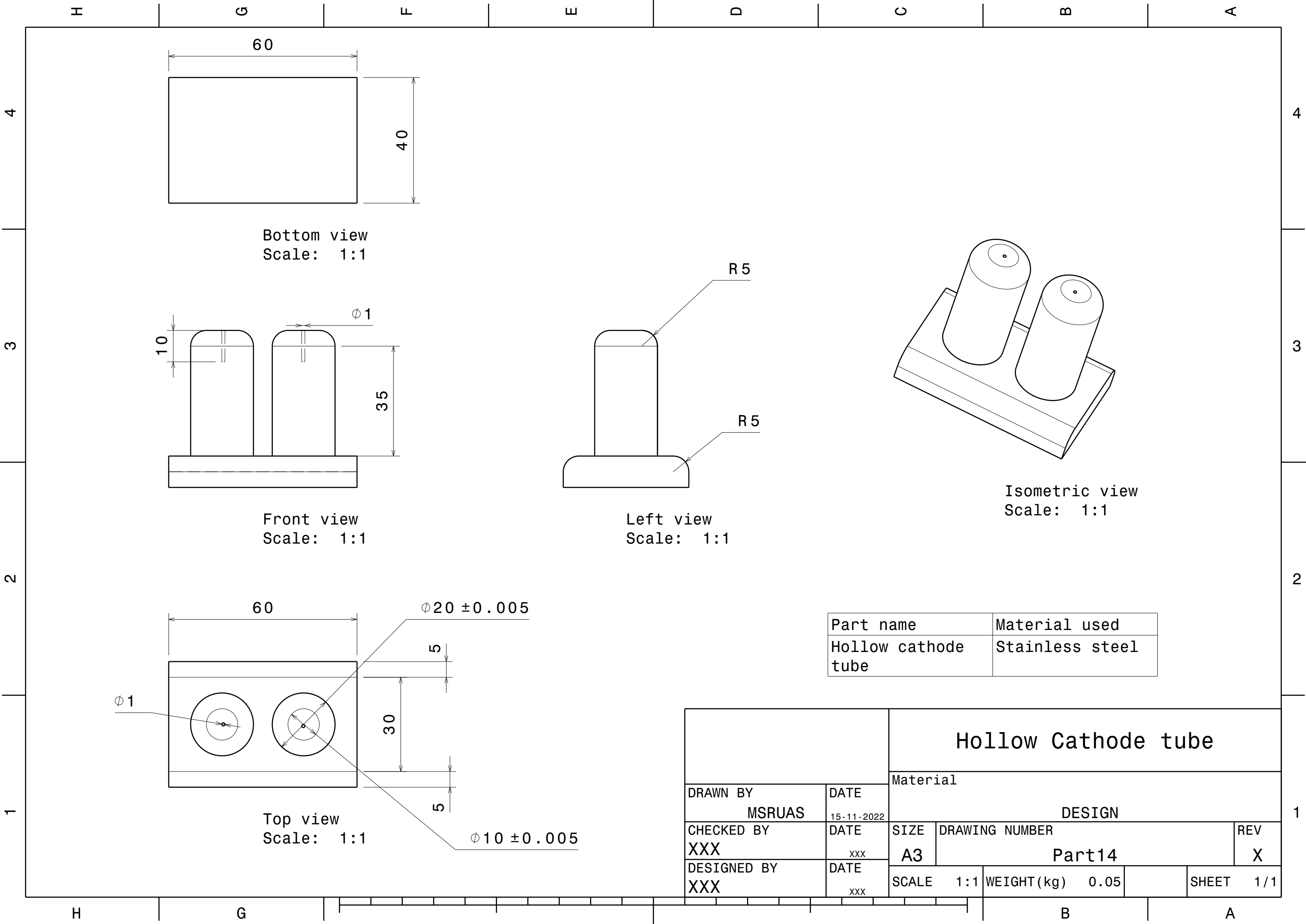
| | | | | | |
|--------------------------------------------------------------------------------------------------------------|--------------------|-------------------|--------------------------------------|--|--------------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | CENTRE CORE COVER | | | |
| | | DRAWING TITLE | | | |
| DRAWN BY MSRUAS | DATE 15-11-2022 | | | | |
| CHECKED BY XXX | DATE xxx | SIZE A3 | DRAWING NUMBER DESIGN 1-PROTOTYPE | | REV X |
| DESIGNED BY XXX | DATE xxx | SCALE 1:1 | WEIGHT (kg) 0.01 | | SHEET 1/1 |

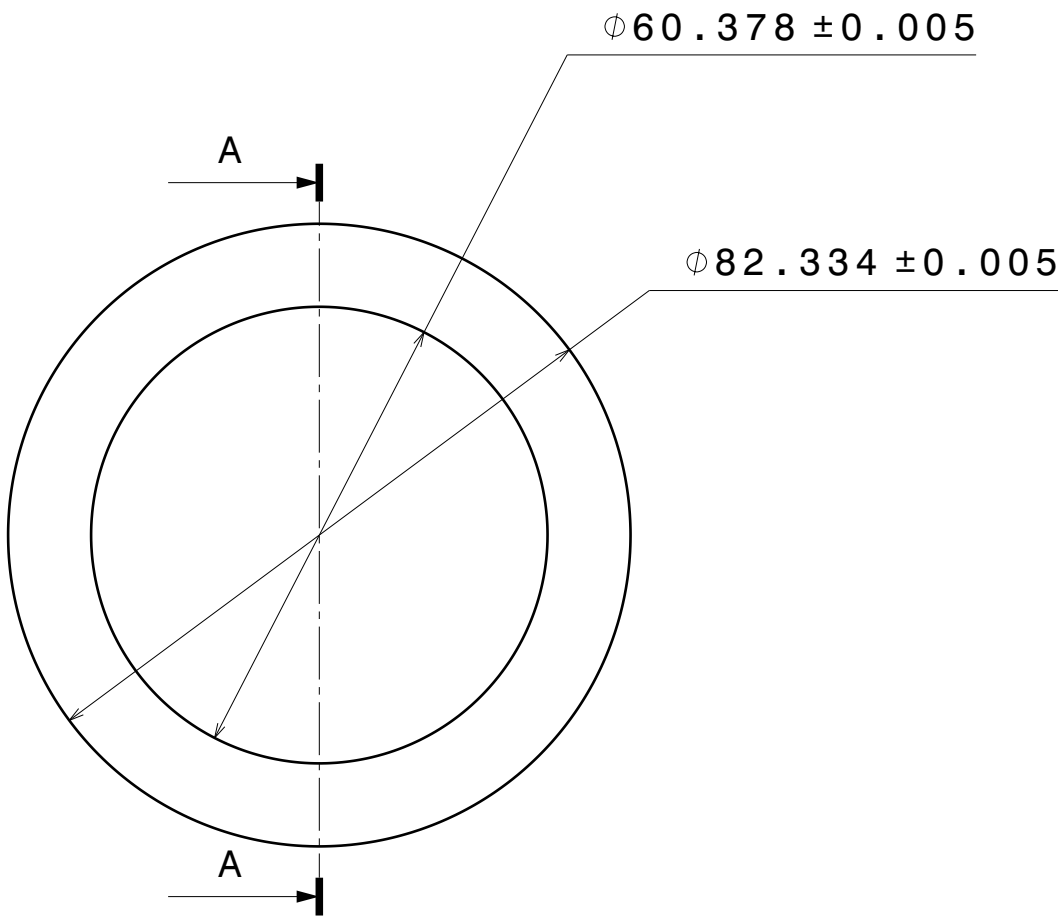
H

G

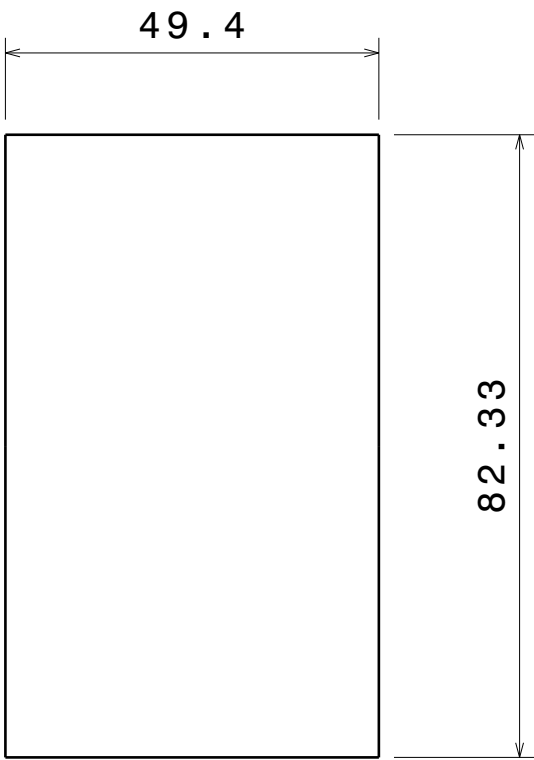
B

A

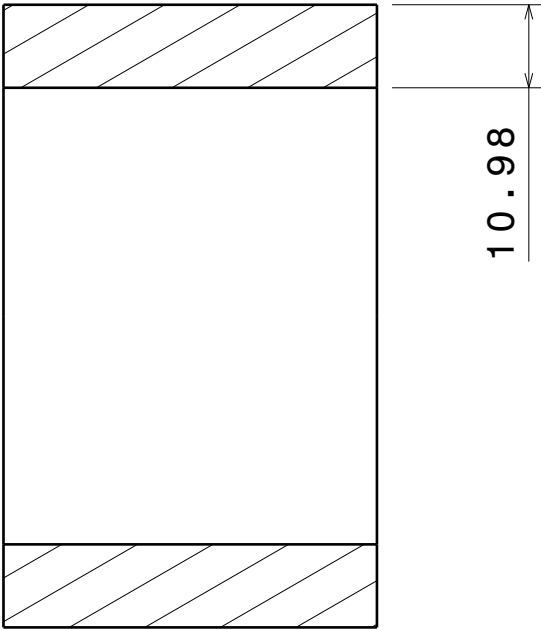




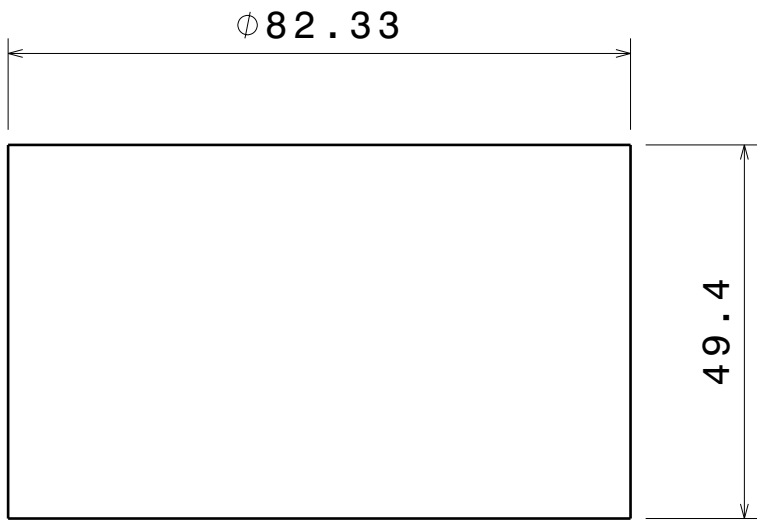
Front view
Scale: 1:1



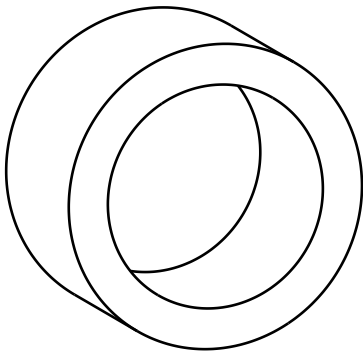
Left view
Scale: 1:1



Section view A-A
Scale: 1:1



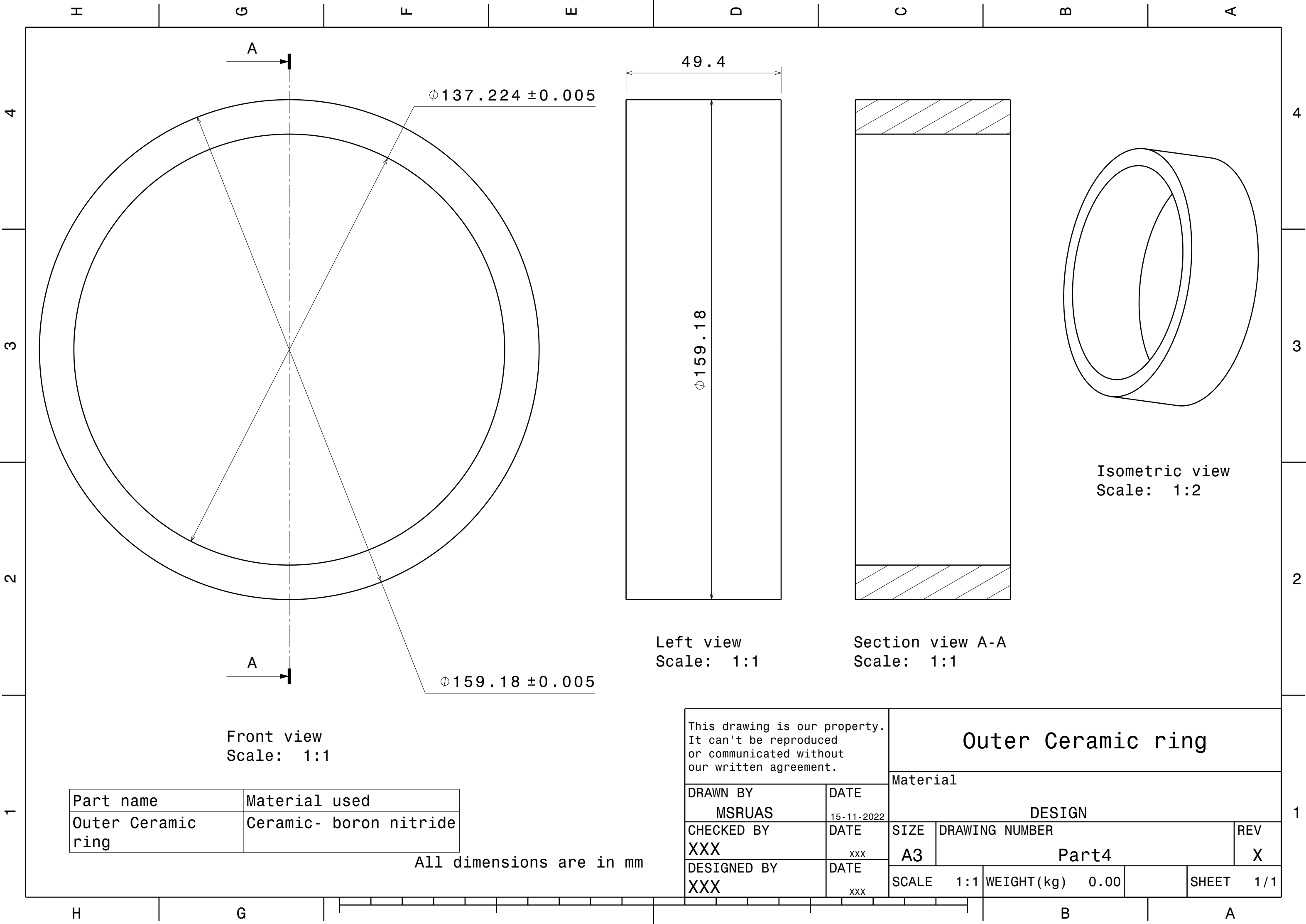
Bottom view
Scale: 1:1



Isometric view
Scale: 1:2

| | |
|--------------------|------------------------|
| Part Name | Material used |
| Inner ceramic ring | Ceramic- Boron nitride |

| | | | | | | | |
|-----------------------------------------------------------------------------------------------------|--|--------------------|--|--------------------|-------------------------|--|--------------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | | | Inner Ceramic ring | | | |
| | | | | Material | | | |
| DRAWN BY MSRUAS | | DATE 15-11-2022 | | DESIGN | | | |
| CHECKED BY XXX | | DATE xxx | | SIZE A3 | DRAWING NUMBER Part5 | | |
| DESIGNED BY XXX | | DATE xxx | | SCALE 1:1 | WEIGHT (kg) 0.00 | | SHEET 1/1 |
| | | | | | | | |



4

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1

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F

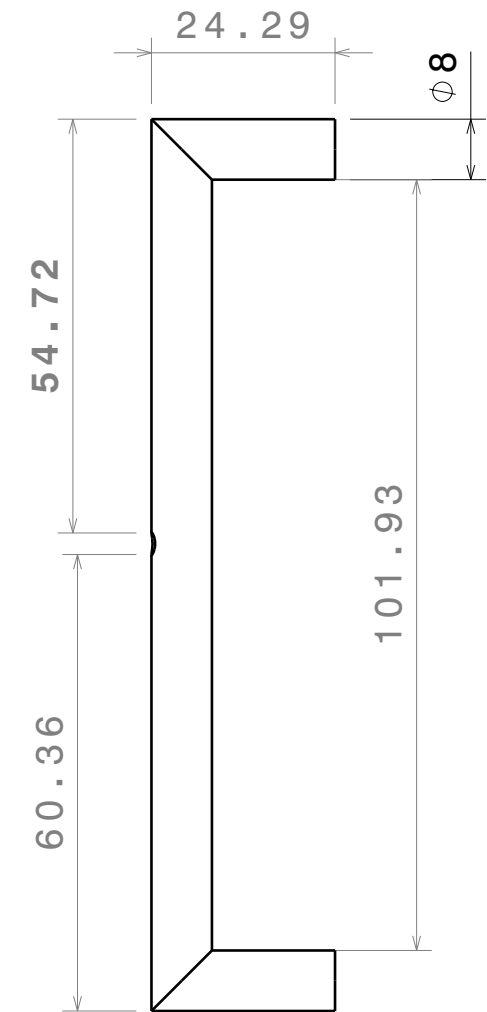
E

D

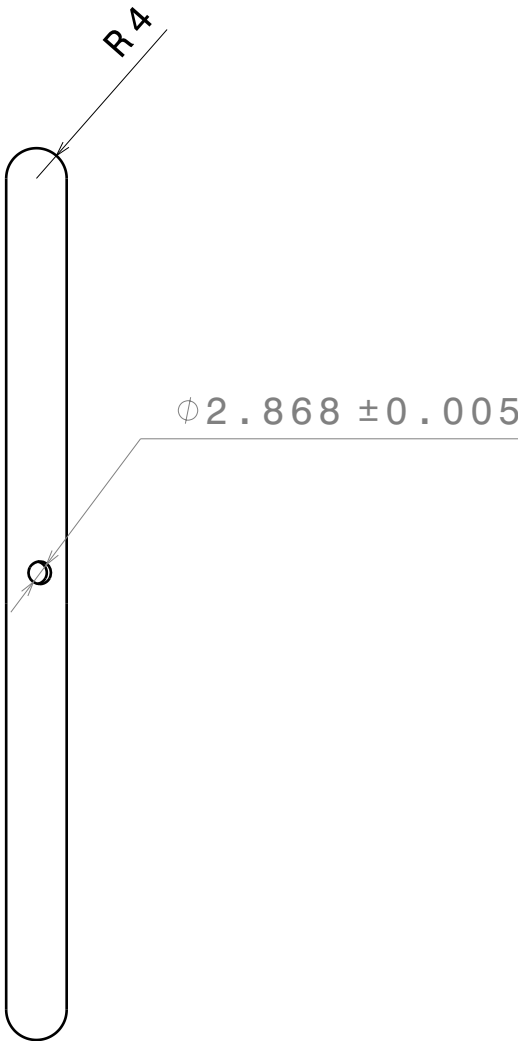
C

B

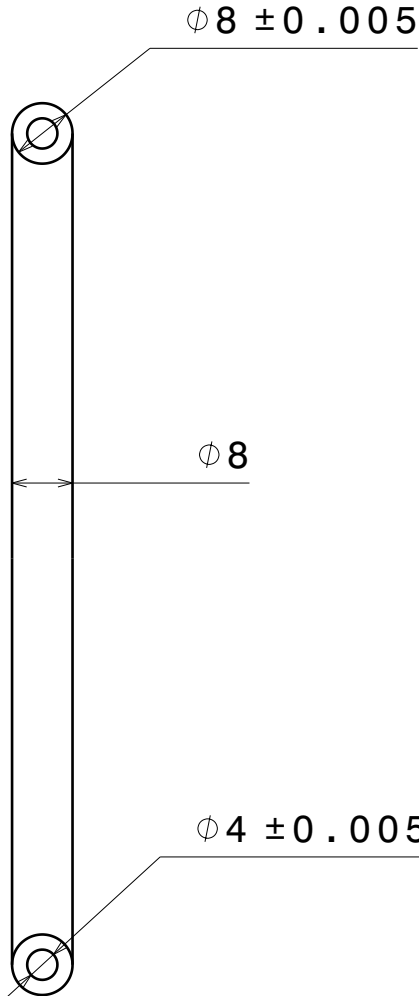
A



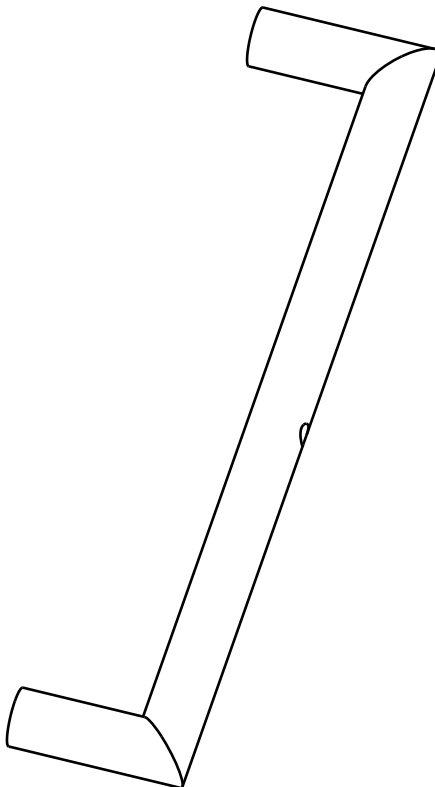
Right view
Scale: 1:1



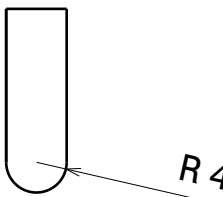
Front view
Scale: 1:1



Rear view
Scale: 1:1



Isometric view
Scale: 1:1



Top view
Scale: 1:1

| | |
|----------------|-----------------|
| Part name | Material used |
| Tube connector | Stainless steel |

| | | | | | |
|--------------------------------------------------------------------------------------------------------------|------------|----------------|----------------|-------------|------|
| This drawing is our property. It can't be reproduced or communicated without our written agreement. | | Tube connector | | | |
| | | DRAWING TITLE | | | |
| DRAWN BY | DATE | | | | |
| | 15-11-2022 | | | | |
| CHECKED BY | DATE | SIZE | DRAWING NUMBER | | REV |
| XXX | xxx | A3 | Part12 | | X |
| DESIGNED BY | DATE | SCALE | 1:1 | WEIGHT (kg) | 0.01 |
| XXX | xxx | | | | |
| | | SHEET | 1/1 | | |

H

G

B

A