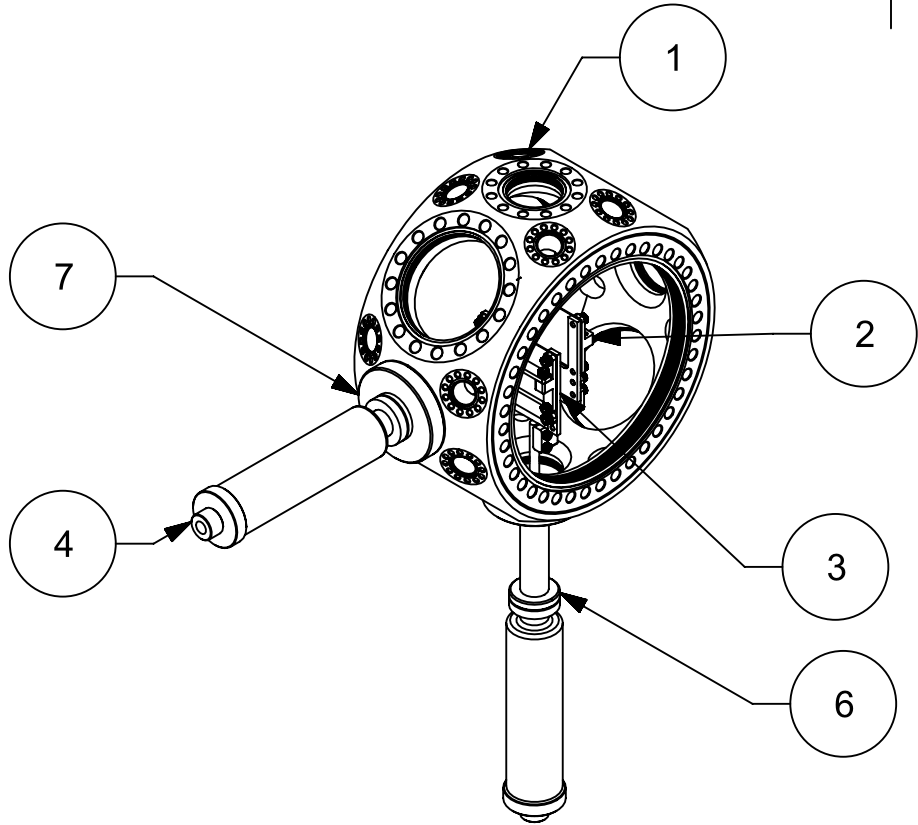


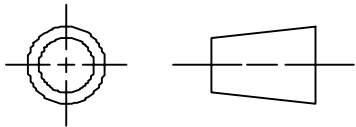
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| Film Plate | 8 |
| Film Clamp | 9 |

| Item | Description | Link | Cost | Qty | |
|---|-----------------------------------|---|-----------|-----|-------------------------------------|
| #8-32 1/4" Stainless Steel Socket Head Screw | Plate Fastening Screws | https://www.mcmaster.com/9219 | \$ 7.21 | 1 | |
| #6-32 1/2" Stainless Steel Socket Head Screw | Linear Actuator Screws | https://www.mcmaster.com/9219 | \$ 7.62 | 1 | |
| MDC Precision Linear Motion Feedthrough | Radius Adjustment Linear Actuator | https://www.mdcprecision.com/p | \$ 996.00 | 1 | *Already in lab |
| MDC Precision Linear Motion Feedthrough | Linear Sweeping Actuator | https://www.mdcprecision.com/p | ?? | 1 | *Need to select motorized option |
| 2.75" Flange Adapter (Reduce to 1.33" CF) | Linear actuator flange adapter | https://www.kimballphysics.com/ | \$ 288.00 | 2 | *At least one already in lab |
| | | PTFE-Coated Fiberglass Fabric She | \$ 34.33 | 1 | |
| | | | | | |
| Film Plate | TOBE MACHINED | Drawing in Fabrication Package | | 2 | |
| Film Clamp | TOBE MACHINED | Drawing in Fabrication Package | | 2 | |
| Mesh Clamp | TOBE MACHINED | Drawing in Fabrication Package | | 4 | |
| Vertical Connector | TOBE MACHINED | Drawing in Fabrication Package | | 1 | |
| Horizontal Connector | TOBE MACHINED | Drawing in Fabrication Package | | 1 | |



| | | |
|-------|-------------------------------|-----|
| 7 | CF 1_33 TO CF 2_75 ADAPTER | 2 |
| 6 | T_BAR | 1 |
| 5 | DFS KEEPOUT | 1 |
| 4 | MDC LINEAR PASSTHROUGH | 2 |
| 3 | HORIZONTAL ACTUATION ASSEMBLY | 1 |
| 2 | VERTICAL ACTUATION ASSEMBLY | 1 |
| 1 | VACUUM CHAMBER | 1 |
| PC NO | PART NAME | QTY |

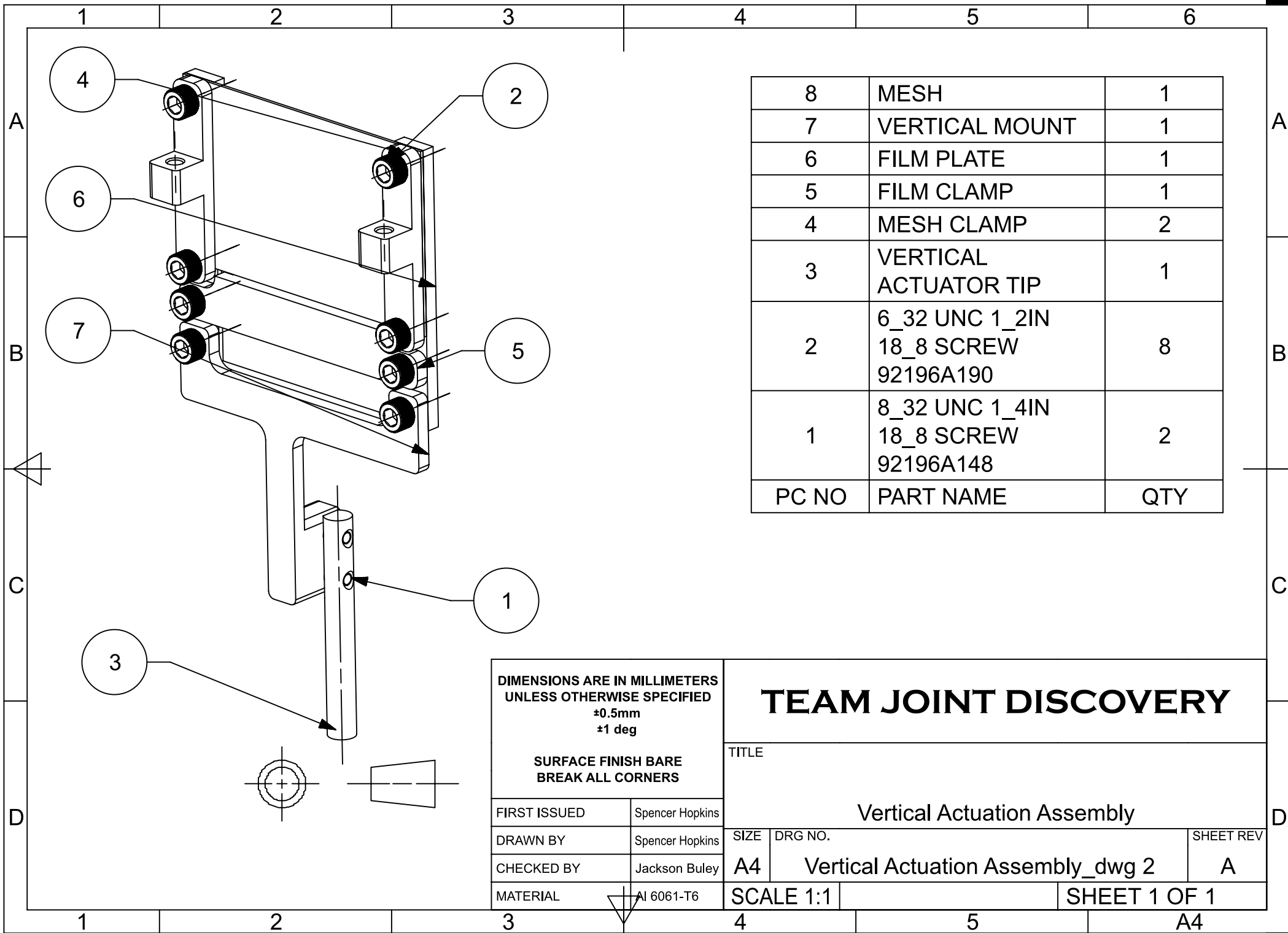


DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SPECIFIED
±0.5mm
±1 deg

SURFACE FINISH BARE
BREAK ALL CORNERS

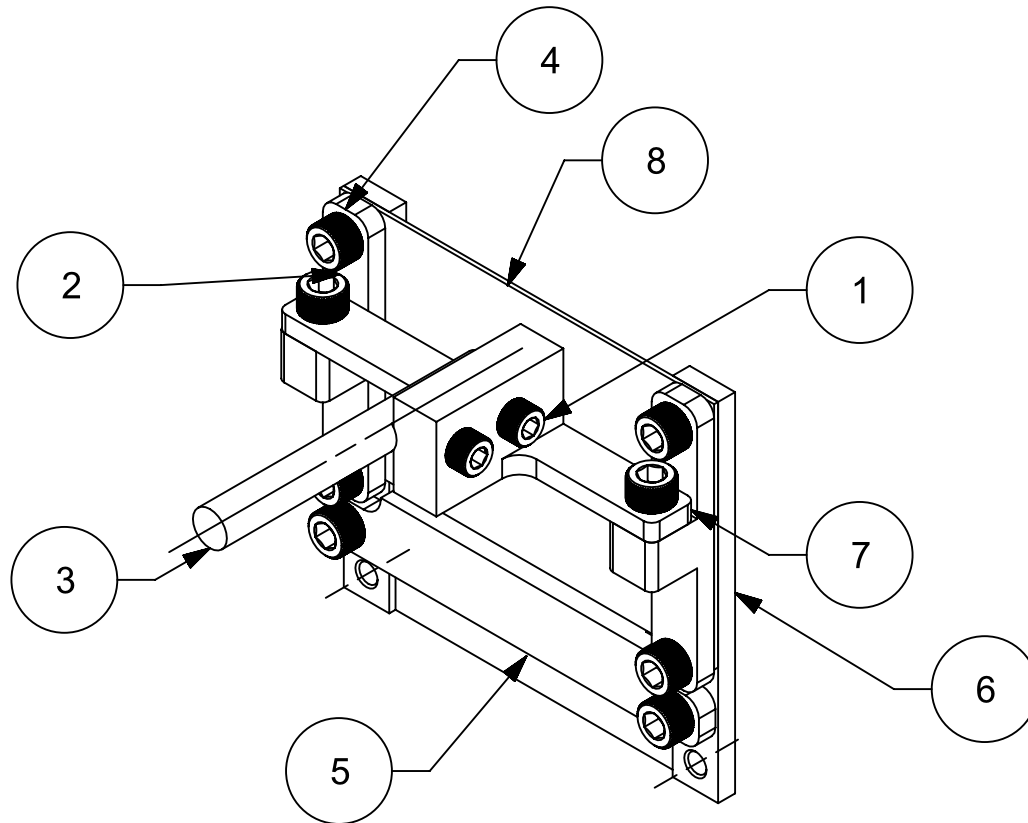
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|--------------|-----------------|
| FIRST ISSUED | Spencer Hopkins |
| DRAWN BY | Spencer Hopkins |
| CHECKED BY | Jackson Buley |
| MATERIAL | Al 6061-T6 |

| | | | |
|----------------------|-----------------------------|-----------|--|
| TEAM JOINT DISCOVERY | | | |
| TITLE | | | |
| Full Assembly | | | |
| SIZE | DRG NO. | SHEET REV | |
| A4 | Film Bending Assembly_dwg 2 | A | |
| SCALE 1:1 | SHEET 1 OF 1 | | |



| | | |
|-------|---|-----|
| 8 | MESH | 1 |
| 7 | VERTICAL MOUNT | 1 |
| 6 | FILM PLATE | 1 |
| 5 | FILM CLAMP | 1 |
| 4 | MESH CLAMP | 2 |
| 3 | VERTICAL ACTUATOR TIP | 1 |
| 2 | 6_32 UNC 1_2IN 18_8 SCREW 92196A190 | 8 |
| 1 | 8_32 UNC 1_4IN 18_8 SCREW 92196A148 | 2 |
| PC NO | PART NAME | QTY |

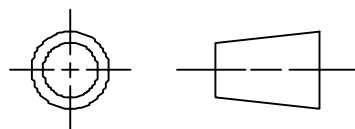
| | | | |
|---|----------------------|-----------------------------|-----------------------------------|
| DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED ±0.5mm ±1 deg SURFACE FINISH BARE BREAK ALL CORNERS | TEAM JOINT DISCOVERY | | |
| | TITLE | | |
| FIRST ISSUED | Spencer Hopkins | Vertical Actuation Assembly | |
| DRAWN BY | Spencer Hopkins | SIZE | DRG NO. |
| CHECKED BY | Jackson Buley | A4 | Vertical Actuation Assembly_dwg 2 |
| MATERIAL | Al 6061-T6 | SCALE 1:1 | SHEET 1 OF 1 |
| | | SHEET REV | |
| | | A | |



| | | |
|-------|---|-----|
| 8 | MESH | 1 |
| 7 | HORIZONTAL MOUNT | 1 |
| 6 | FILM PLATE | 1 |
| 5 | FILM CLAMP | 1 |
| 4 | MESH CLAMP | 2 |
| 3 | HORIZONTAL ACTUATOR TIP | 1 |
| 2 | 6_32 UNC 1_2IN 18_8 SCREW 92196A190 | 8 |
| 1 | 8_32 UNC 1_4IN 18_8 SCREW 92196A148 | 2 |
| PC NO | PART NAME | QTY |

DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SPECIFIED
±0.5mm
±1 deg

SURFACE FINISH BARE
BREAK ALL CORNERS



TEAM JOINT DISCOVERY

TITLE

Horizontal Actuation Assembly

FIRST ISSUED Spencer Hopkins

DRAWN BY Spencer Hopkins

CHECKED BY Jackson Buley

SIZE DRG NO. SHEET REV

A4 Horizontal Actuation Assembly_dwg 4 A

SCALE 1:1 SHEET 1 OF 1

1 2 3 4 5 6

A

B

C

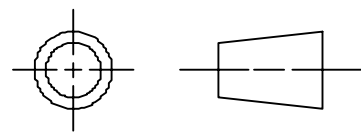
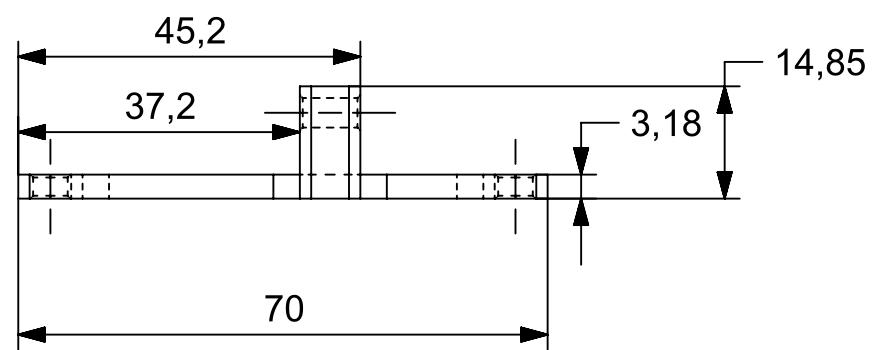
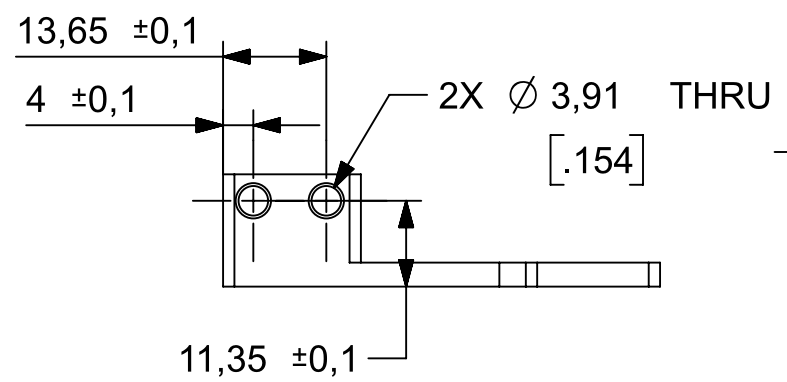
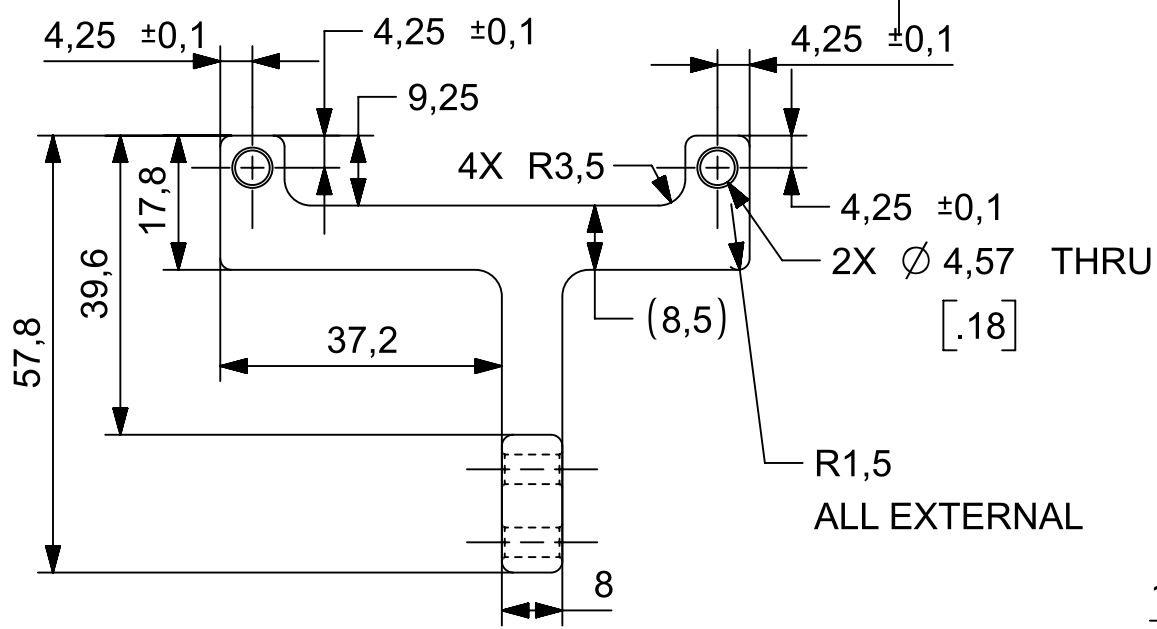
D

A

B

C

D



DIMENSIONS ARE IN MILLIMETERS
UNLESS OTHERWISE SPECIFIED
±0.5mm
±1 deg

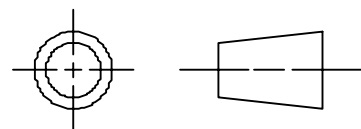
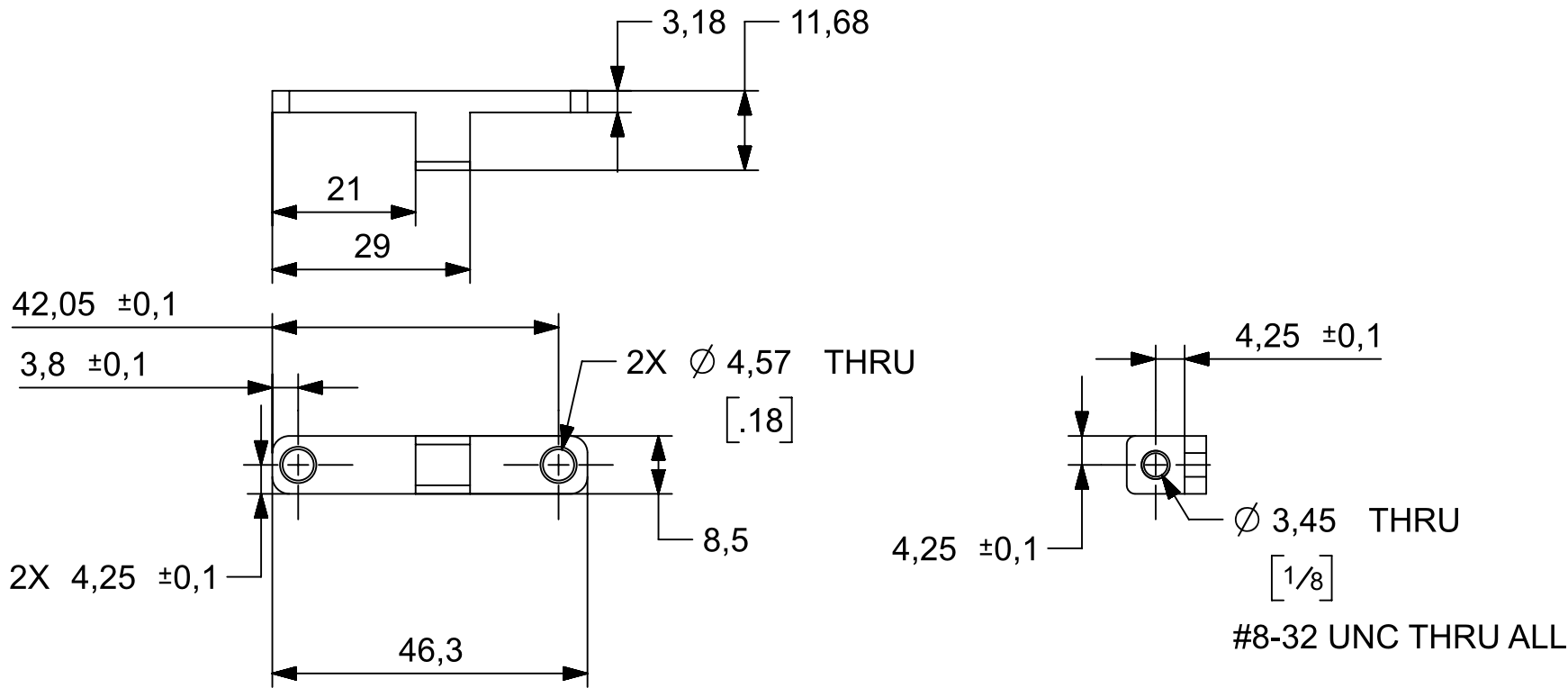
SURFACE FINISH BARE
BREAK ALL CORNERS

| | |
|--------------|-----------------|
| FIRST ISSUED | Spencer Hopkins |
| DRAWN BY | Spencer Hopkins |
| CHECKED BY | Jackson Buley |
| MATERIAL | Al 6061-T6 |

TEAM JOINT DISCOVERY

| | | | |
|----------------|---------------------|--------------|--|
| TITLE | | | |
| Vertical Mount | | | |
| SIZE | DRG NO. | SHEET REV | |
| A4 | Vertical Mount dwg1 | A | |
| SCALE 1:1 | | SHEET 1 OF 1 | |

1 2 3 4 5 A4



| | | | | |
|---|-----------------|----------------------|-----------------|-----------|
| DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED ±0.5mm ±1 deg | | TEAM JOINT DISCOVERY | | |
| | | TITLE | | |
| SURFACE FINISH BARE BREAK ALL CORNERS | | Mesh Clamp | | |
| FIRST ISSUED | Spencer Hopkins | SIZE | DRG NO. | SHEET REV |
| DRAWN BY | Spencer Hopkins | A4 | Mesh Clamp dwg1 | A |
| CHECKED BY | Jackson Buley | SCALE 1:1 | | |
| MATERIAL | Al 6061-T6 | SHEET 1 OF 1 | | |

