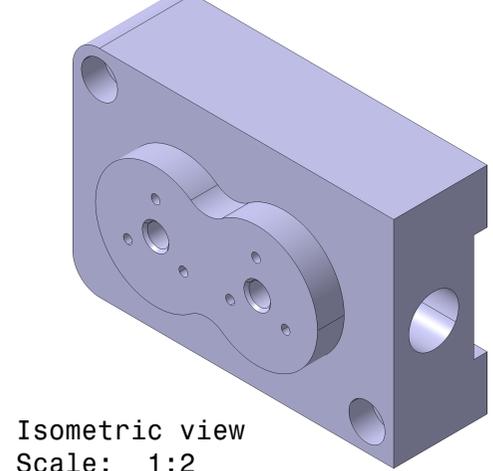
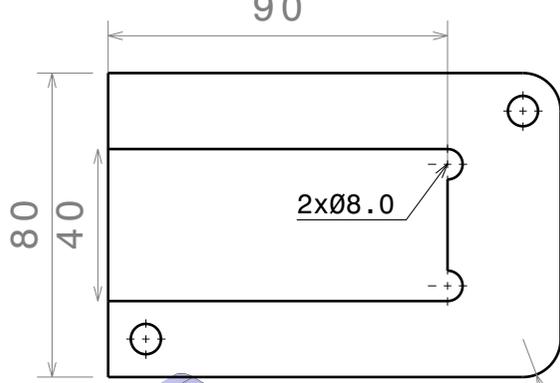
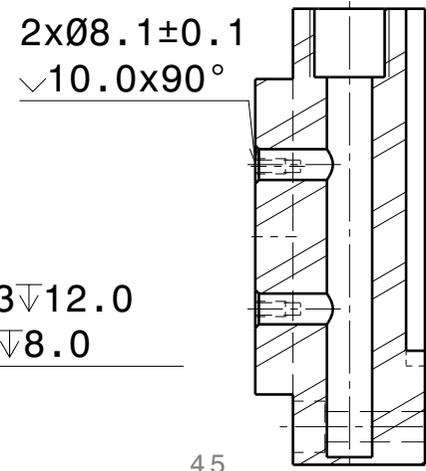


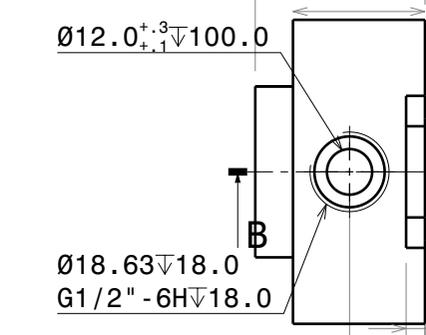
Detail A
Scale: 1:1



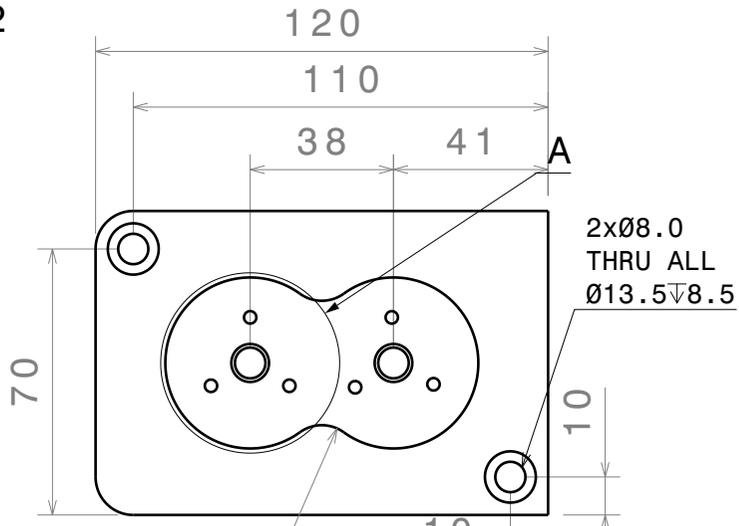
Isometric view
Scale: 1:2



Section view B-B
Scale: 1:2



0.01



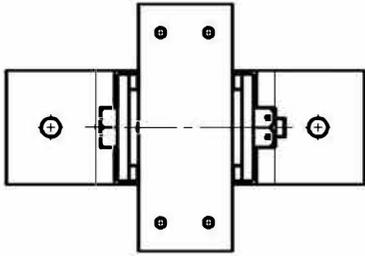
Front view
Scale: 1:2

DESIGNED BY: Hissan		Title: Liquid mixer Version 2		Surface Roughness (Ra): 1.6 μm OR BETTER		I	-	
DATE: 8/7/2024						H	-	
Material: Al 6061		Finish: As Machined				G	-	
Tech. Ref.: 110-B						F	-	
SIZE A4		DASSAULT SYSTEMES				E	-	
SCALE 1:2	WEIGHT (kg) 0.88	DRAWING & TOLERANCING STANDARD: ISO 2768-1		SHEET 1/1		D	-	
This drawing is our property; it can't be reproduced or communicated without our written agreement.							C	-
							B	-
							A	-

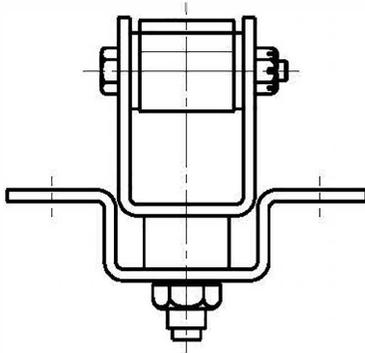
D

A

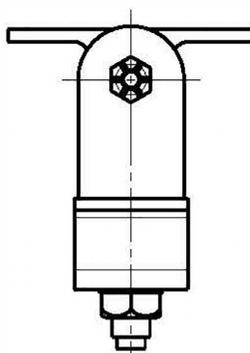
SHOCK ASSEMBLY



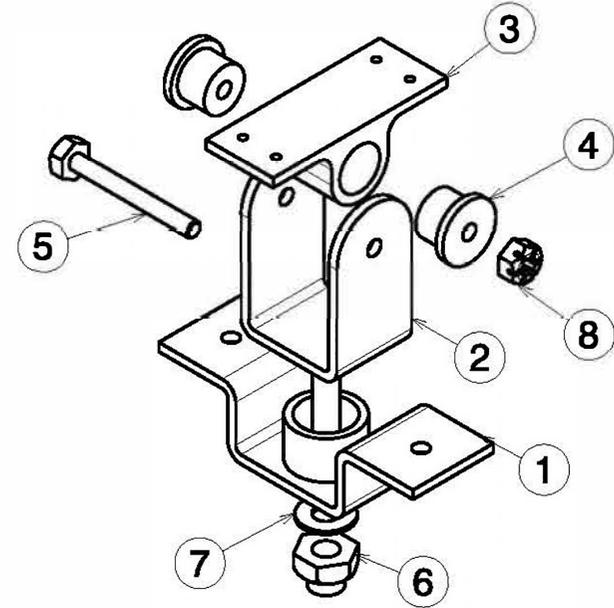
Top View



Front View



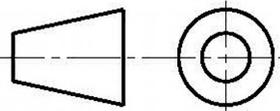
Right View



Isometric View
(Exploded)

Bill of Material: Shock Assembly

No.	Part Number	Quantity
1	Bracket	1
2	U-support	1
3	Pivot	1
4	Busher	2
5	Hexagonal Bolt	1
6	Castle Nut	1
7	Washer	1
8	Self Locking Nut	1



CADMAXX

DRAWING TITLE

SHOCK ASSEMBLY

DRAWN BY

Hissan

DATE

12/04/23

CHECKED BY

DESIGNED BY

DATE

DATE

SIZE

A4

DRAWING NUMBER

01

REV

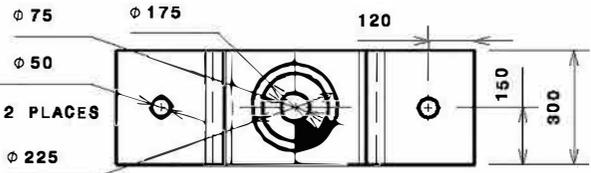
SCALE 1:20

SHEET 5/6

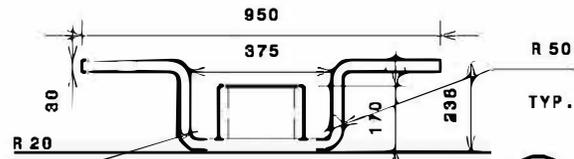
D

A

SHOCK ASSEMBLY DETAILS

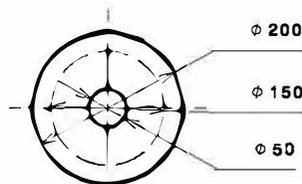


Top view

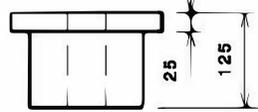


Front view

①

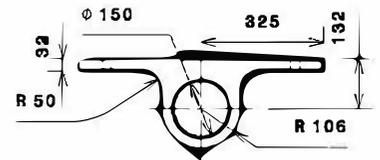


Top view

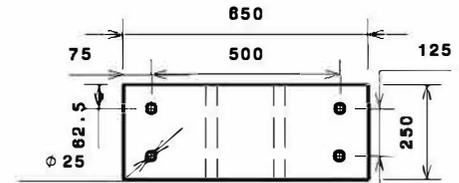


Front view

④

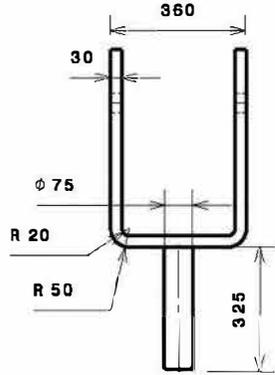


Front view

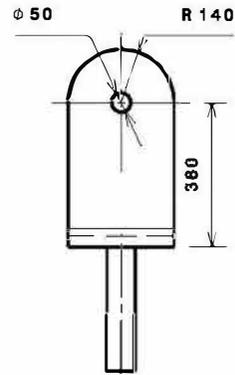


Top view

③

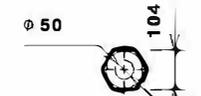


Front view

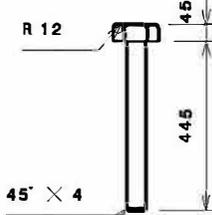


Right view

②

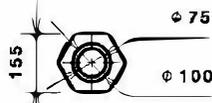


Top view

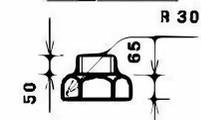


Front view

⑤

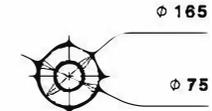


Top view



Front view

⑥

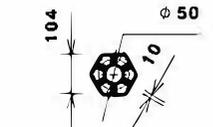


Top view

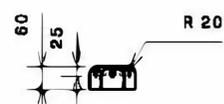


Front view

⑦



Top view

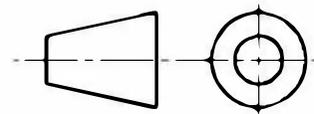


Front view

⑧

Bill of Material: Shock Assembly

No.	Part Number	Quantity
1	Bracket	1
2	U-support	1
3	Pivot	1
4	Busher	2
5	Hexagonal Bolt	1
6	Castle Nut	1
7	Washer	1
8	SelfLocking Nut	1



DRAWN BY
Hissan

DATE
12/04/23

CHECKED BY

DATE

DESIGNED BY

DATE

DRAWING TITLE

SHOCK ASSEMBLY

SIZE
A4

DRAWING NUMBER
01

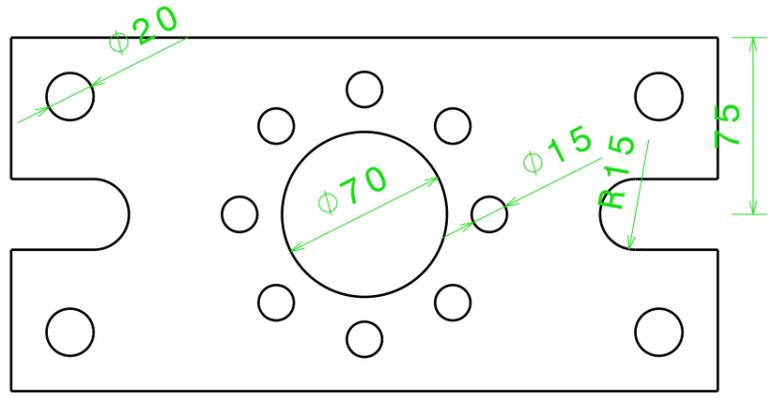
REV

SCALE 1:20 **WEIGHT (kg)**

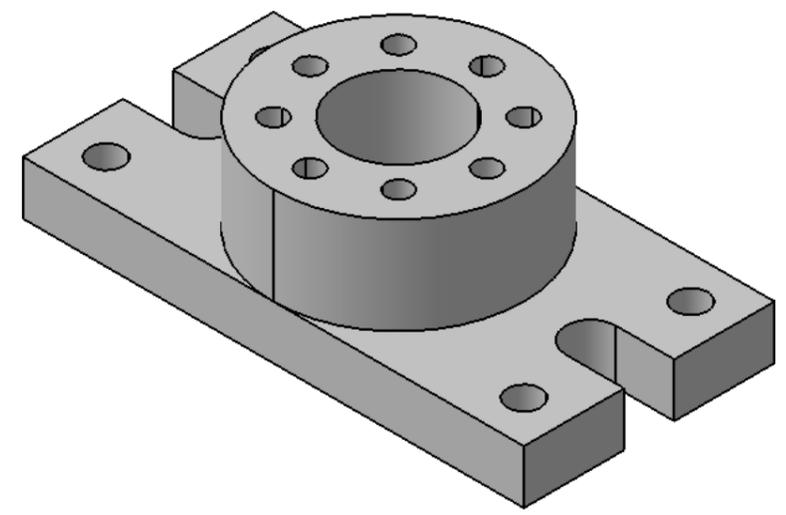
SHEET 2

Cadmaxx

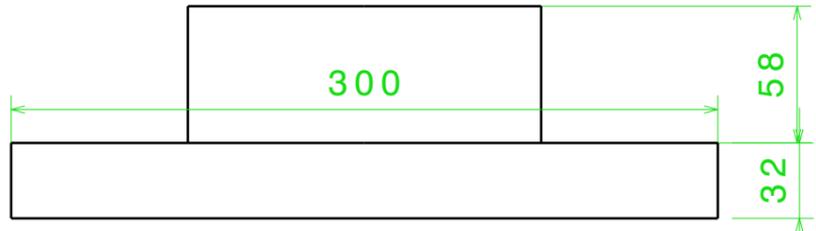
H G F E D C B A



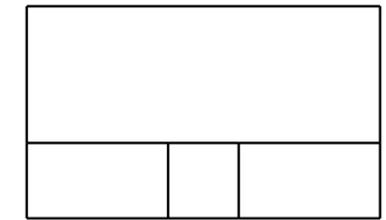
Bottom view
Scale: 1:3



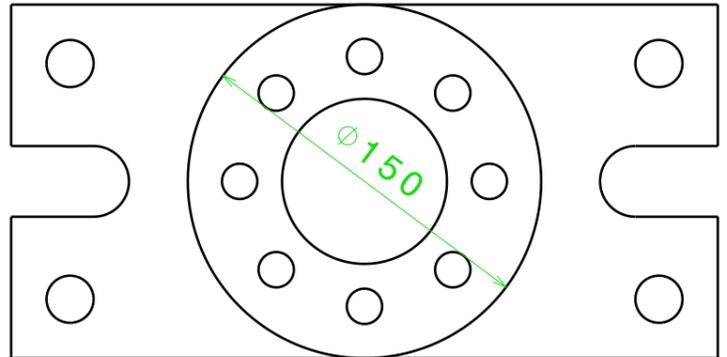
Isometric view
Scale: 1:3



Front view
Scale: 1:3



Left view
Scale: 1:3



Top view
Scale: 1:3

4

4

3

3

2

2

1

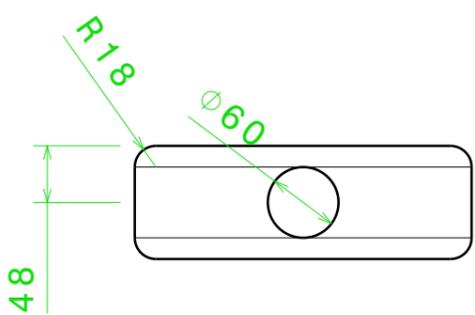
1

H G F E D C B A

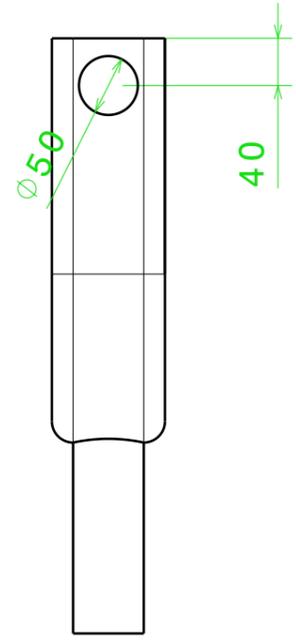
DESIGNED BY: Hissan	<h1>PRACTICE</h1>		I	-
DATE: 3/15/2023			H	-
CHECKED BY: XXX	<h2>Cadmaxx</h2>		G	-
DATE: XXX			F	-
SIZE: A3		XXX	E	-
SCALE: 1:1	WEIGHT (kg): XXX		D	-
DRAWING NUMBER: XXX		1/1	C	-
SHEET: 1/1			B	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.			A	-

H G F E D C B A

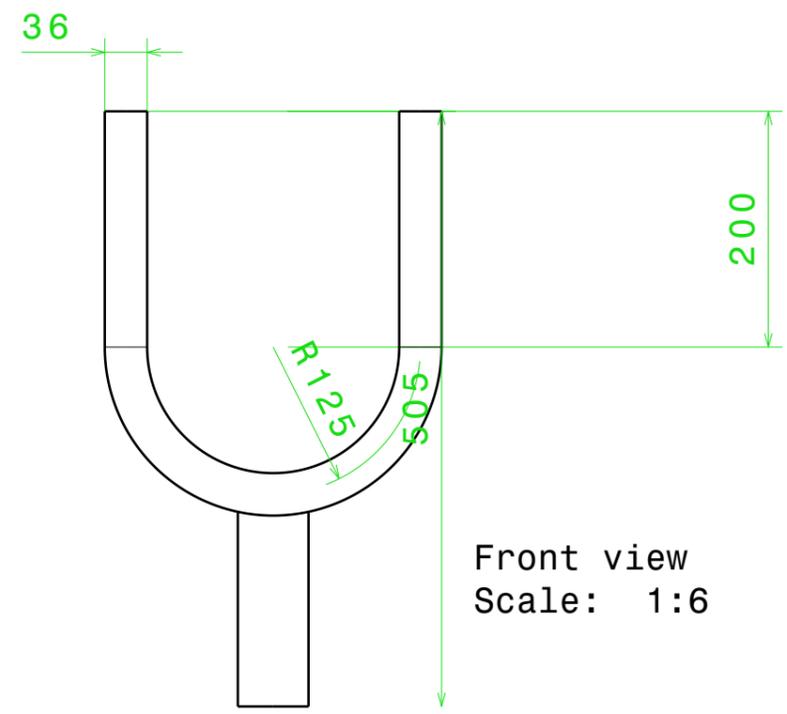
4



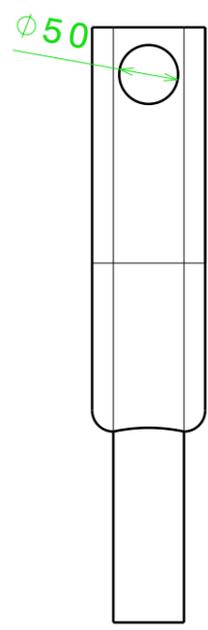
Bottom view
Scale: 1:6



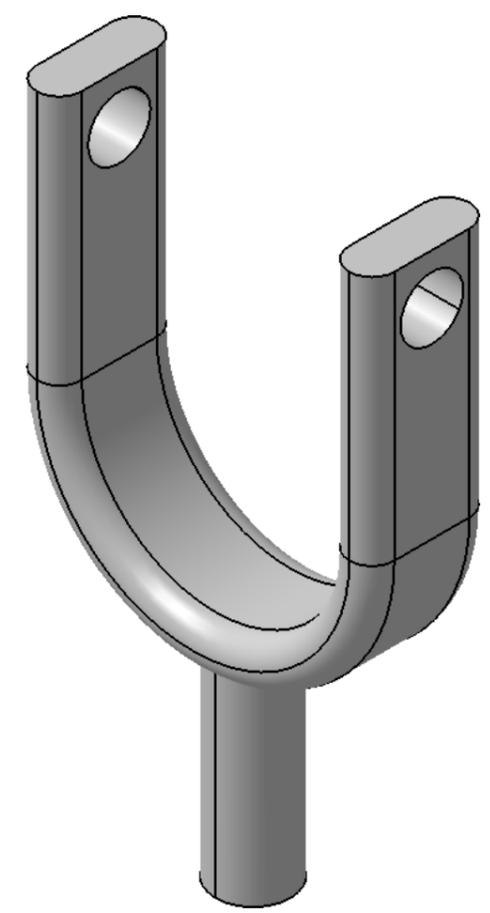
Right view
Scale: 1:6



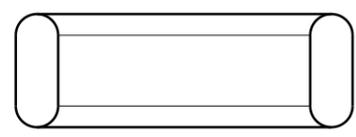
Front view
Scale: 1:6



Left view
Scale: 1:6



Isometric view
Scale: 1:4



Top view
Scale: 1:6

3

2

1

4

3

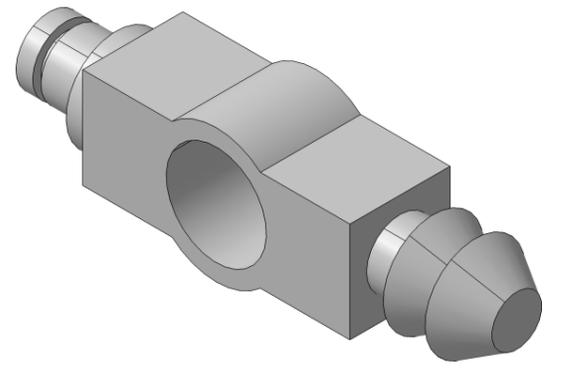
2

1

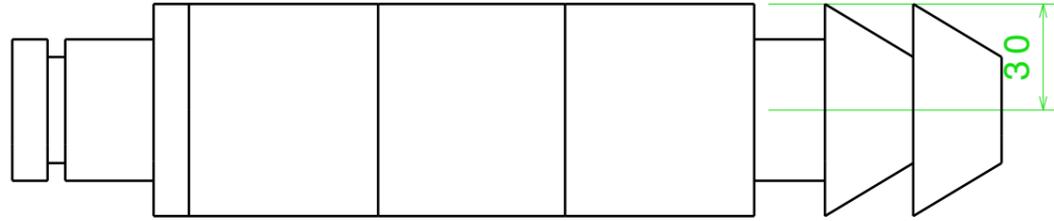
H G F E D C B A

DESIGNED BY: Hissan	<h1>PRACTICE</h1>		I	-
DATE: 3/15/2023			H	-
CHECKED BY: XXX			G	-
DATE: XXX	<h2>Cadmaxx</h2>		F	-
SIZE: A3			E	-
SCALE: 1:1	WEIGHT (kg): XXX	DRAWING NUMBER: XXX	D	-
		SHEET: 1/1	C	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.			B	-
			A	-

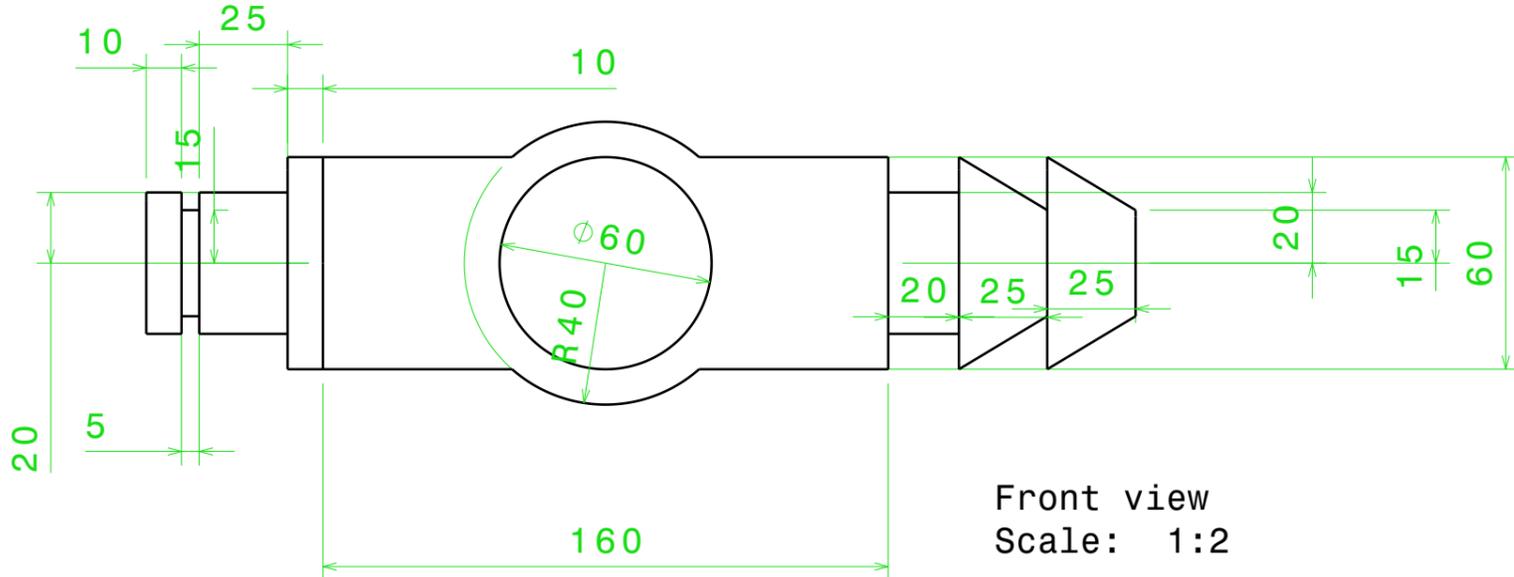
H G F E D C B A



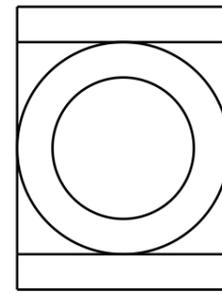
Isometric view
Scale: 1:3



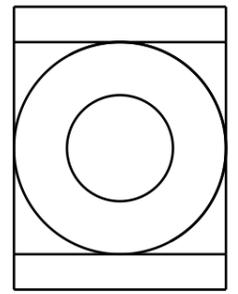
Bottom view
Scale: 1:2



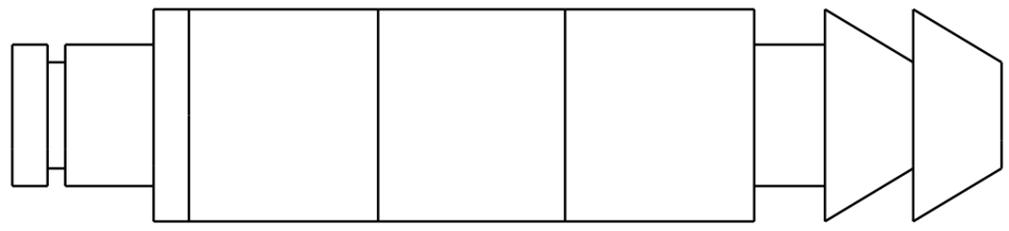
Front view
Scale: 1:2



Left view
Scale: 1:2



Right view
Scale: 1:2

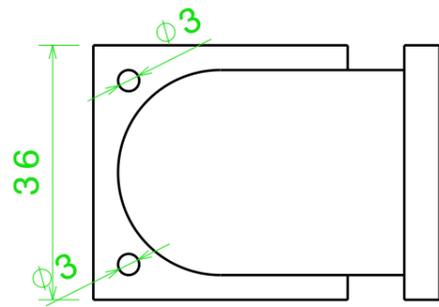


Top view
Scale: 1:2

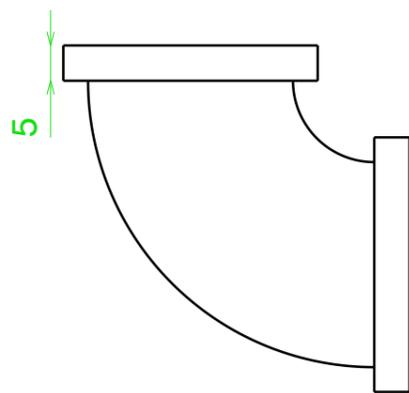
DESIGNED BY: Hissan	<h1>PRACTICE</h1>		I	-
DATE: 3/15/2023			H	-
CHECKED BY: XXX			G	-
DATE: XXX	<h2>Cadmaxx</h2>		F	-
SIZE: A3			E	-
SCALE: 1:1	WEIGHT (kg): XXX	DRAWING NUMBER: XXX	D	-
			C	-
			B	-
			A	-

This drawing is our property; it can't be reproduced or communicated without our written agreement.

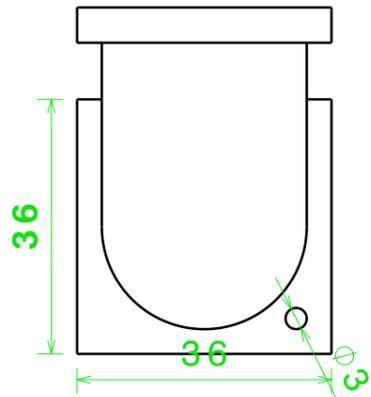
H G B A



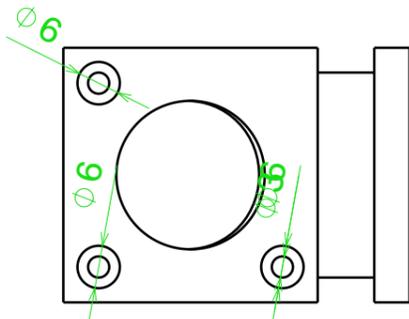
Bottom view
Scale: 1:1



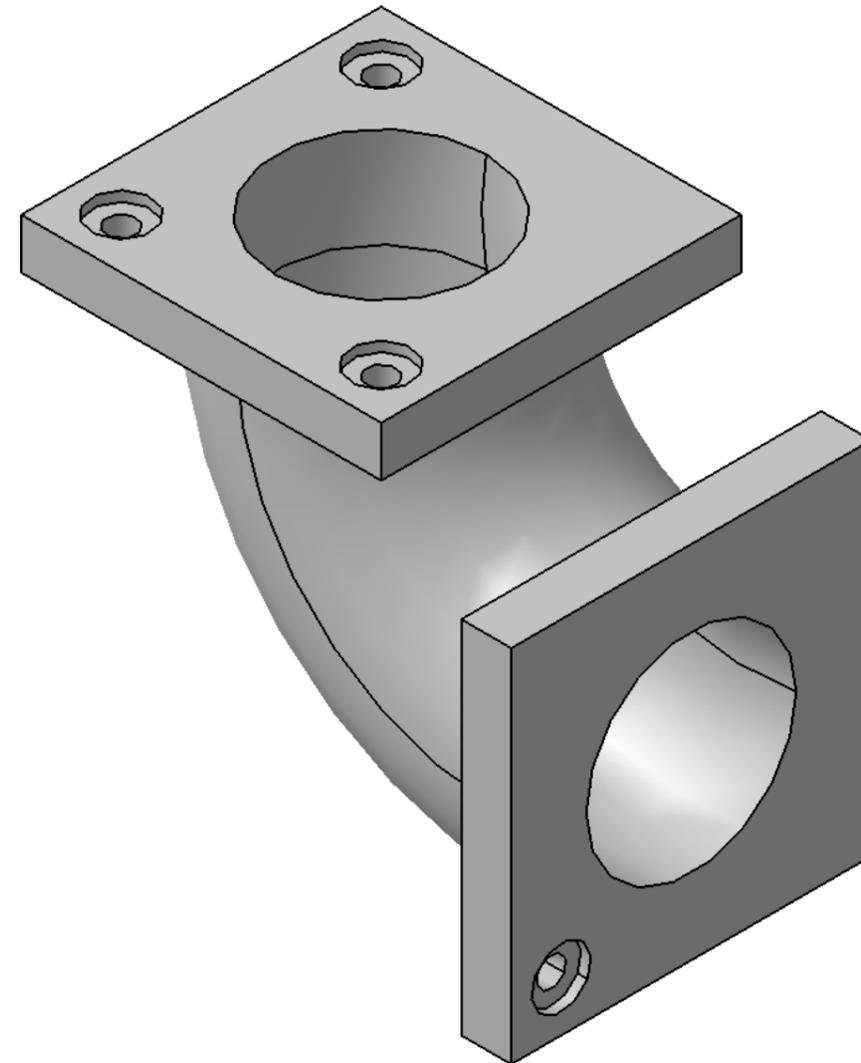
Front view
Scale: 1:1



Left view
Scale: 1:1



Top view
Scale: 1:1

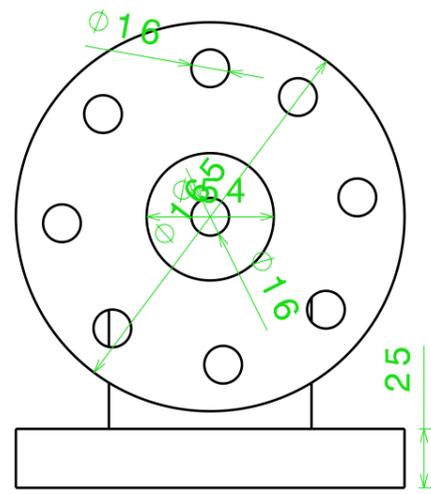


Isometric view
Scale: 2:1

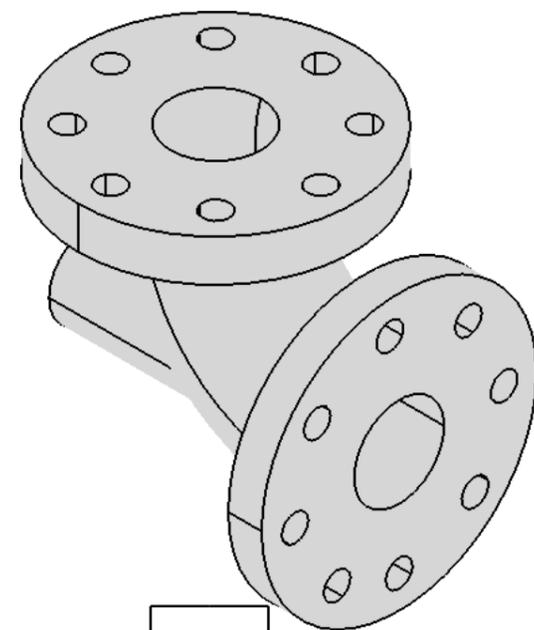
DESIGNED BY:				I	-
DATE: Hissan 3/29/2023	PRACTICE			H	-
CHECKED BY: XXX				G	-
DATE: XXX	Cadmaxx			F	-
SIZE: A3					E
SCALE: 1:10	WEIGHT (kg): XXX	DRAWING NUMBER: XXX	SHEET: 1/1	D	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				C	-
				B	-
				A	-

H G F E D C B A

4

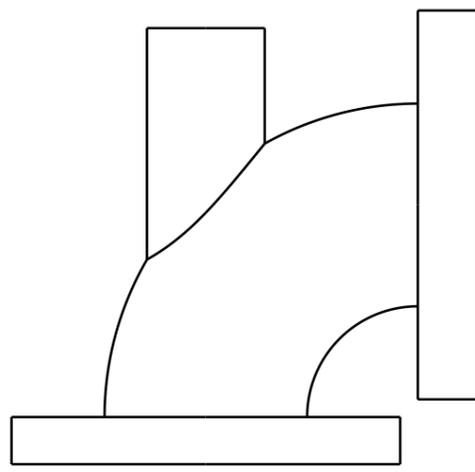


Bottom view
Scale: 1:3

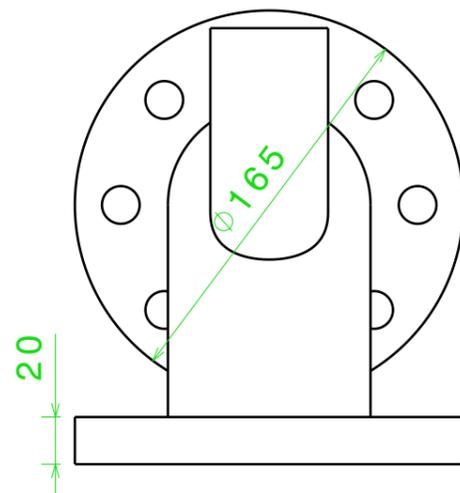


Isometric view
Scale: 1:3

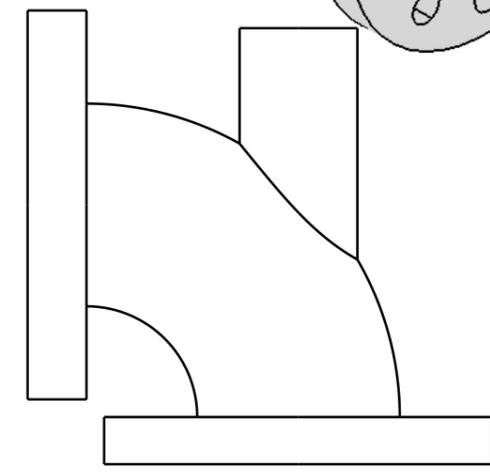
3



Right view
Scale: 1:3

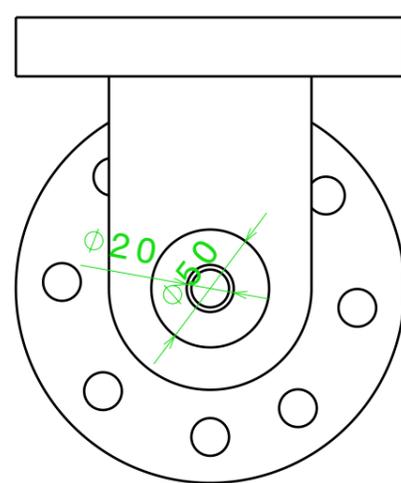


Front view
Scale: 1:3



Left view
Scale: 1:3

2



Top view
Scale: 1:3

1

DESIGNED BY: Hissan		PRACTICE		I	-
DATE: 3/29/2023				H	-
CHECKED BY: XXX		Cadmaxx		G	-
DATE: XXX				F	-
SIZE: A3		XXX		E	-
SCALE: 1:10	WEIGHT (kg): XXX			D	-
DRAWING NUMBER: XXX		SHEET: 1/1		C	-
This drawing is our property; it can't be reproduced or communicated without our written agreement.				B	-
				A	-

H G B A

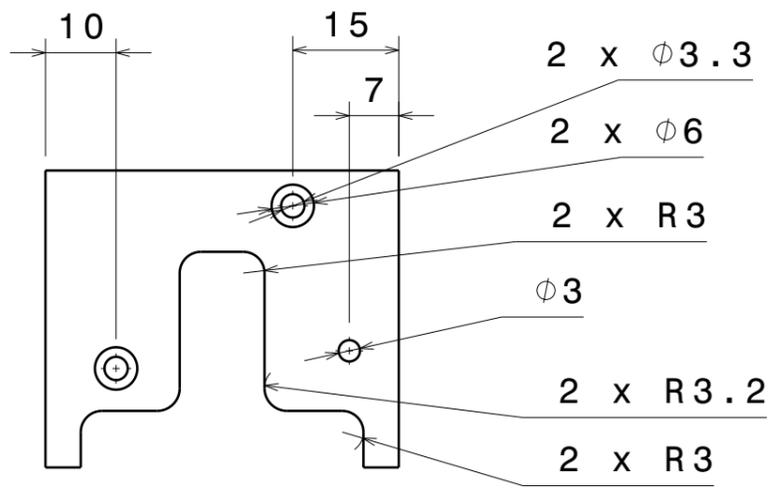
4

3

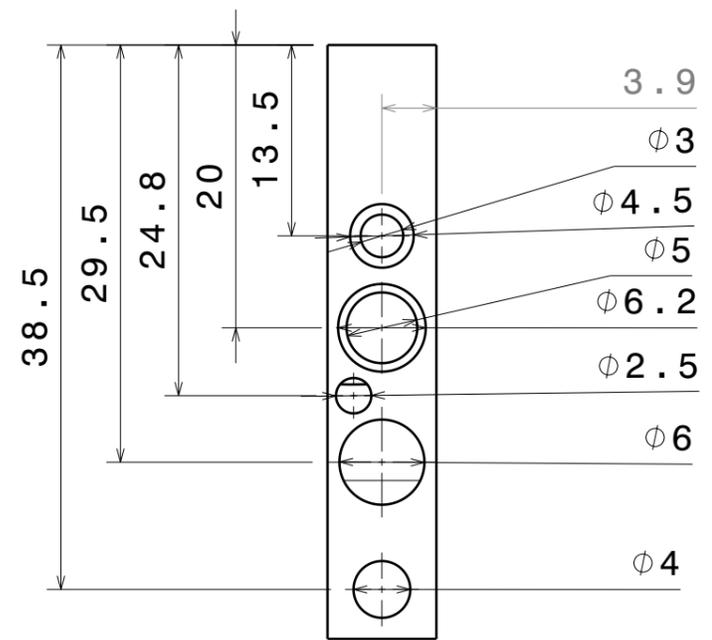
2

1

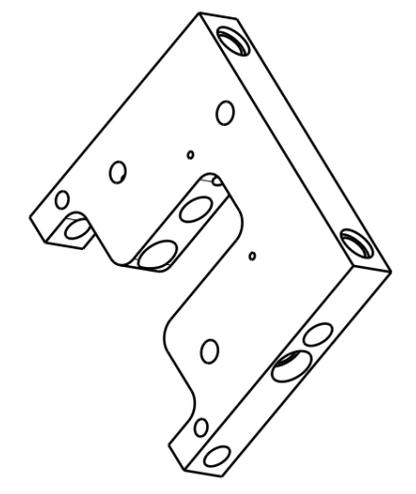
H G F E D C B A



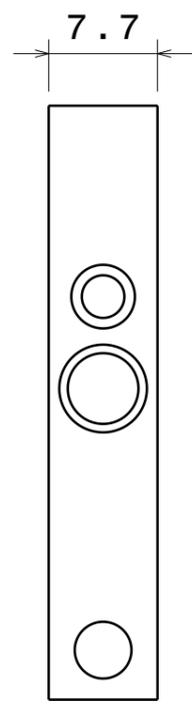
Rear view
Scale: 1:1



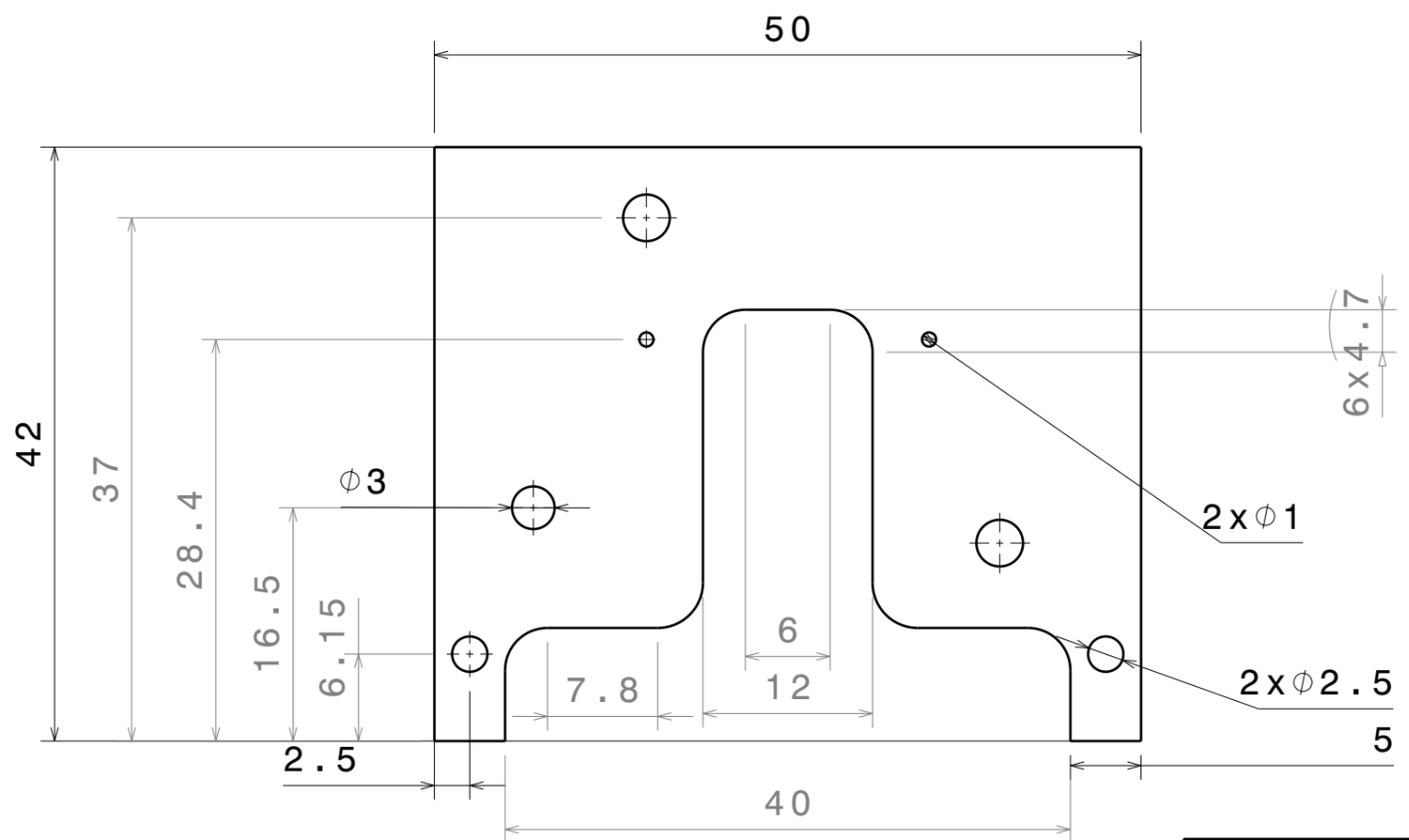
Left view
Scale: 2:1



Isometric view
Scale: 1:1

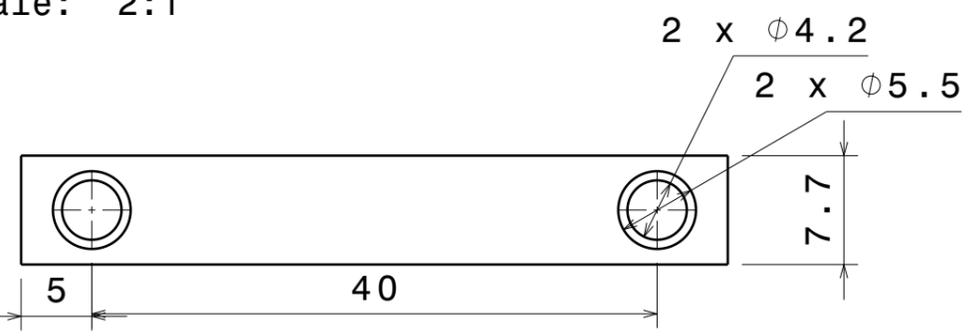


Right view
Scale: 2:1



Front view
Scale: 2:1

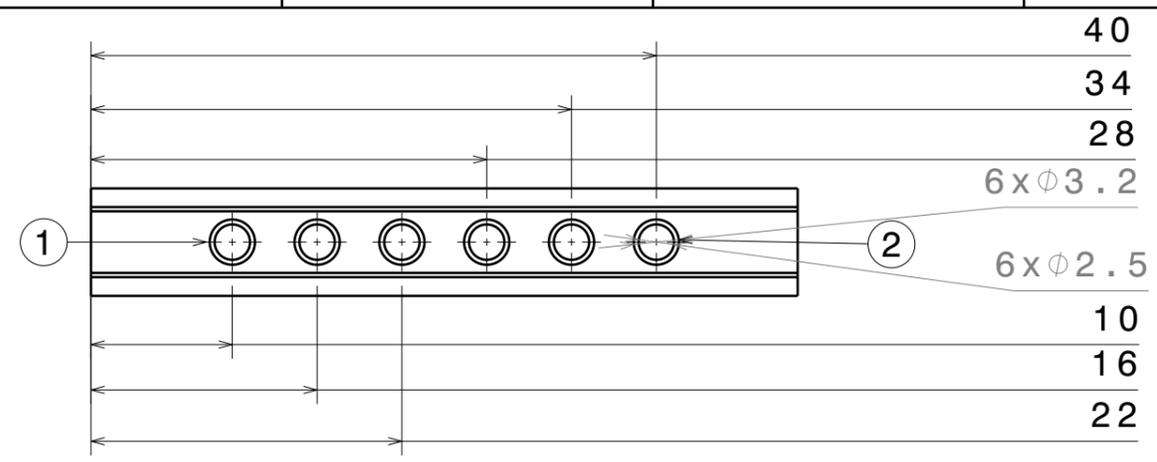
- Notes:
1. The drawing is in third angle projection
 2. All dimensions are in mm .
 3. General Tolerance : ±0.1mm
 4. Manufacturing method - Casting



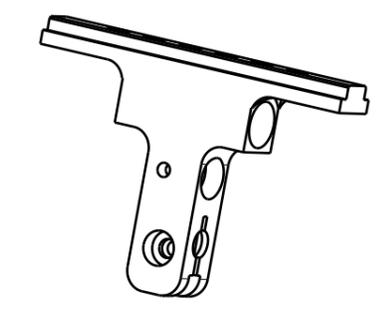
Top view
Scale: 2:1

Part Drawing Assignment		Practice			
DRAWN BY Hissan		DATE 01-10-2022		DRAWING TITLE Frame -no fasteners	
Material: low carbon/low-tensile carbon steel, AISI 1020		SIZE A3		DRAWING NUMBER 0001	
SCALE	2:1	WEIGHT (kg)	0.07	SHEET	1

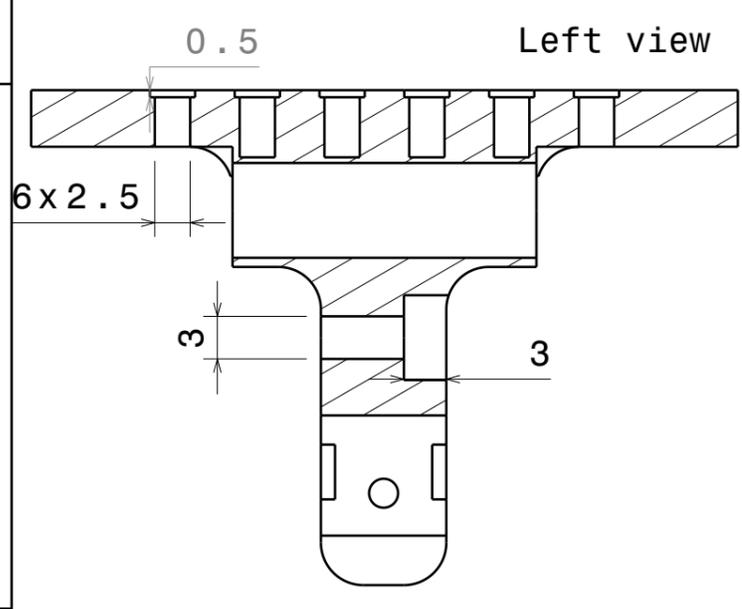
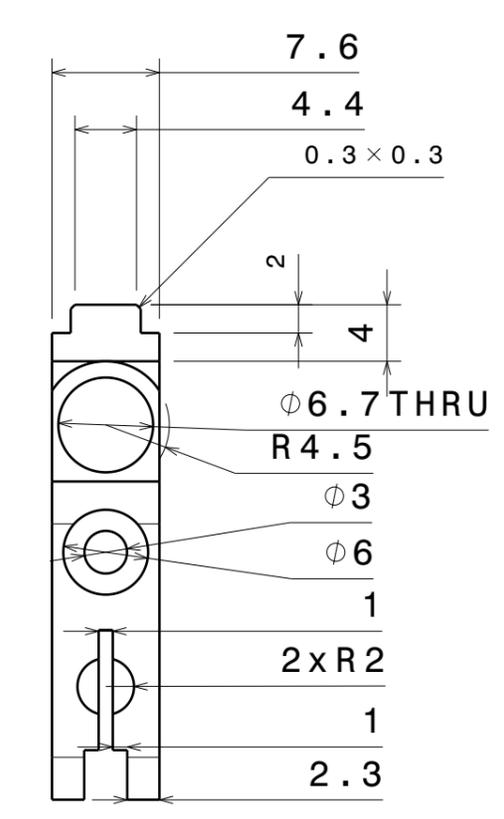
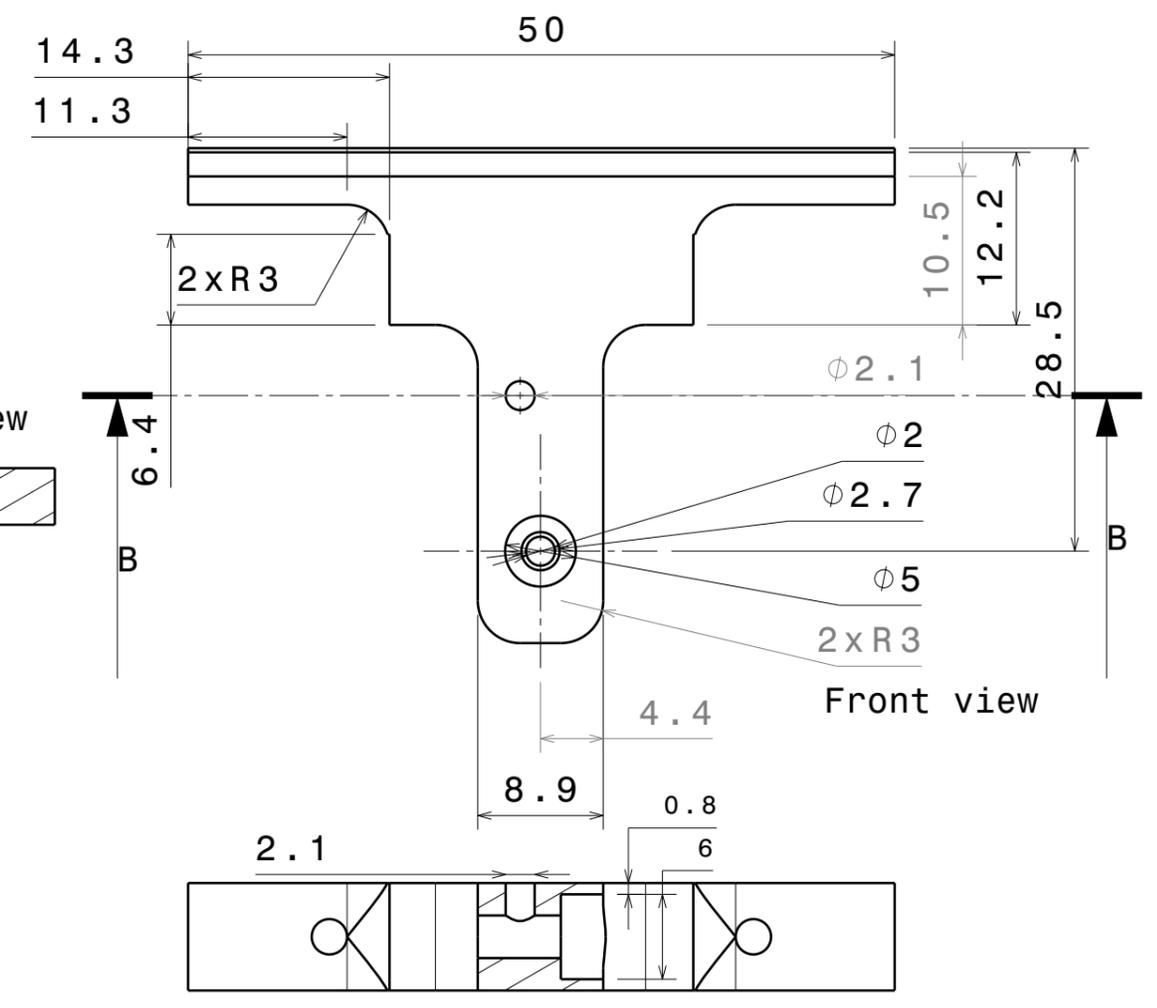
H G B A



refer note
w.r.t 1 & 2



Isometric view
Scale: 1:1



Section view A-A

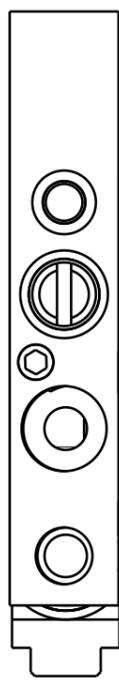
Section view B-B

- NOTES:
- All dimensions are in mm.
 - The drawing is in third angle projection.
 - General tolerance $\pm 0.1\text{mm}$
 - Note for holes 1&2 in 'Top view' - [4,C] THRU Holes drilled for - 1 & 2 - $\nabla 4 \square$
 - Material - AISI 304 [Steel]

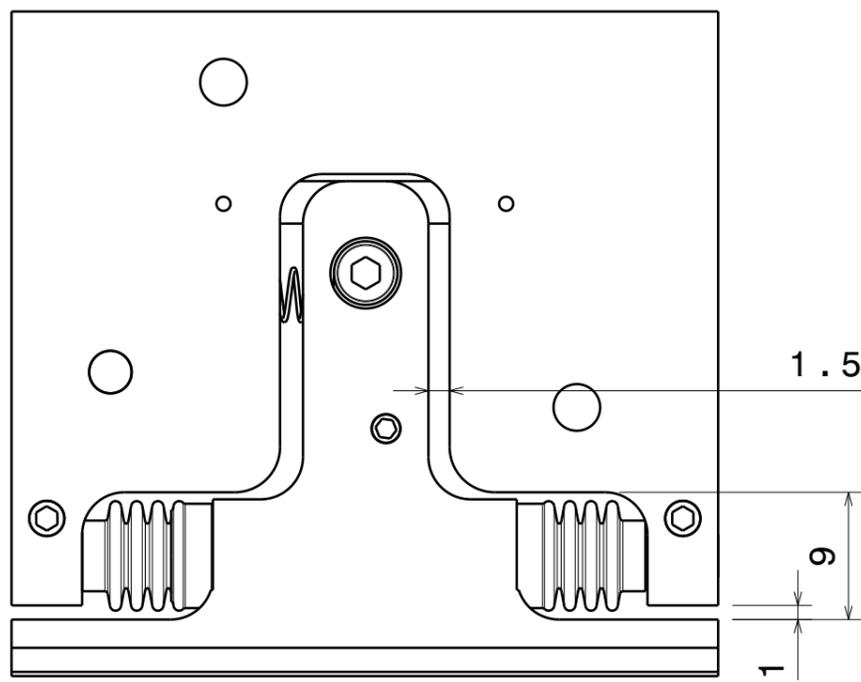
DESIGNED BY:		MINOR ASSEMBLY DRAWING ASSIGNMENT - Part drawing	
DATE:			
CHECKED BY: Hissan		Practice	
DATE: 01-10-2022			
SIZE: A3		DRAWING NAME T-piece arm	
SCALE: 2:1	WEIGHT (kg): 0.02		
This drawing is our property; it can't be reproduced or communicated without our written agreement.		SHEET 1/1	

H G F E D C B A

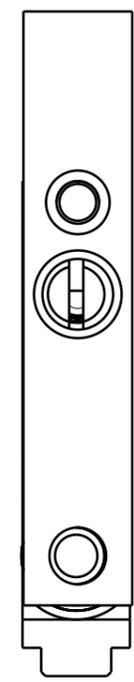
4



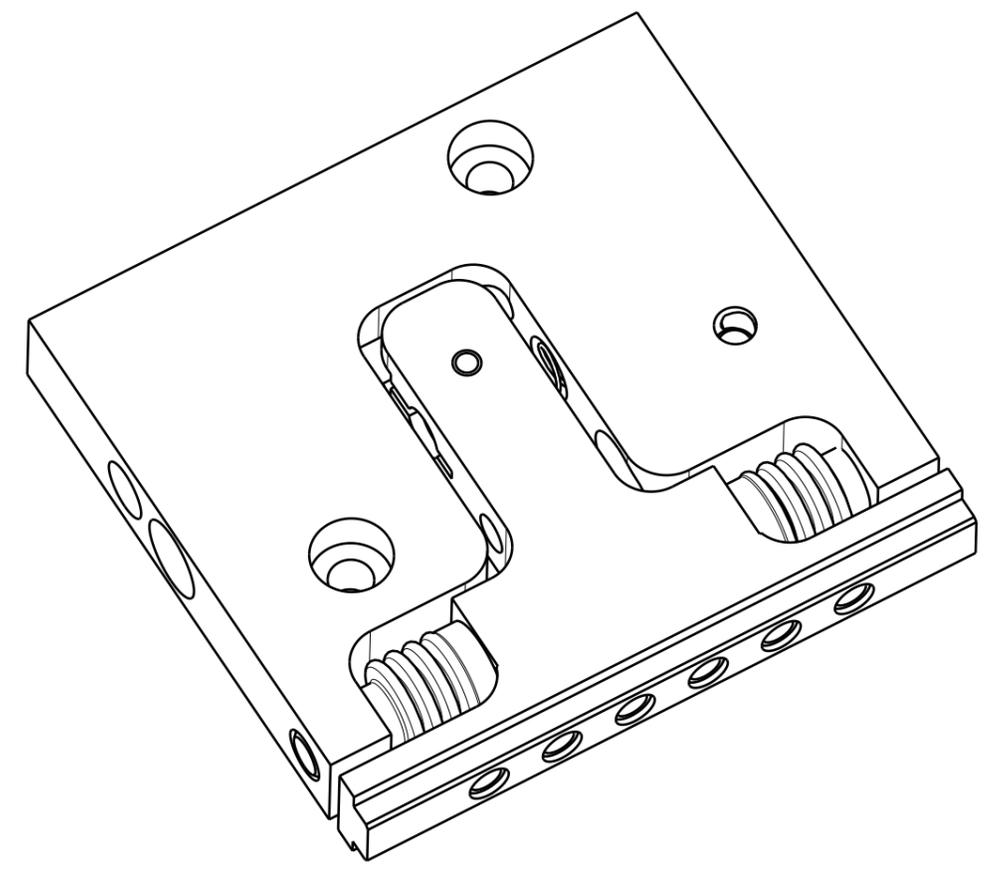
Left view



Front view



Right view



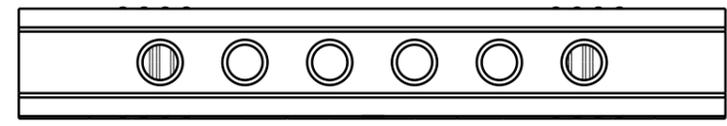
Isometric view

3

3

2

2



Top view

ASSEMBLY INSTRUCTIONS :

1. Place the T- piece over the frame allowing the shaft to pass through
2. Place the spring through the Stop screw and insert .
3. The gaiter chassis must be placed through the Brg Assy chassis and make sure the offset is 0mm
4. Fasteners are to be screwd as mentioned in the exploded view .

NOTE :

1. All dimensions are in mm.
2. Drawing is in third angle projection.
3. Method of manufacturing : Casting
4. General tolerance : ± 0.1 mm.
5. Material : AISI 1020 , AISI 307

DESIGNED BY: Hissan		MINOR ASSEMBLY DRAWING		I	-
DATE: 01-10-2022				H	-
CHECKED BY:				G	-
				F	-
SIZE A3		P I		E	-
SCALE 2:1	WEIGHT (kg) 0.11	Drawing name: ASSEMBLY DRAWING		D	-
		SHEET 1/2		C	-
				B	-
				A	-

This drawing is our property; it can't be reproduced or communicated without our written agreement.

H G F E D C B A

H

G

F

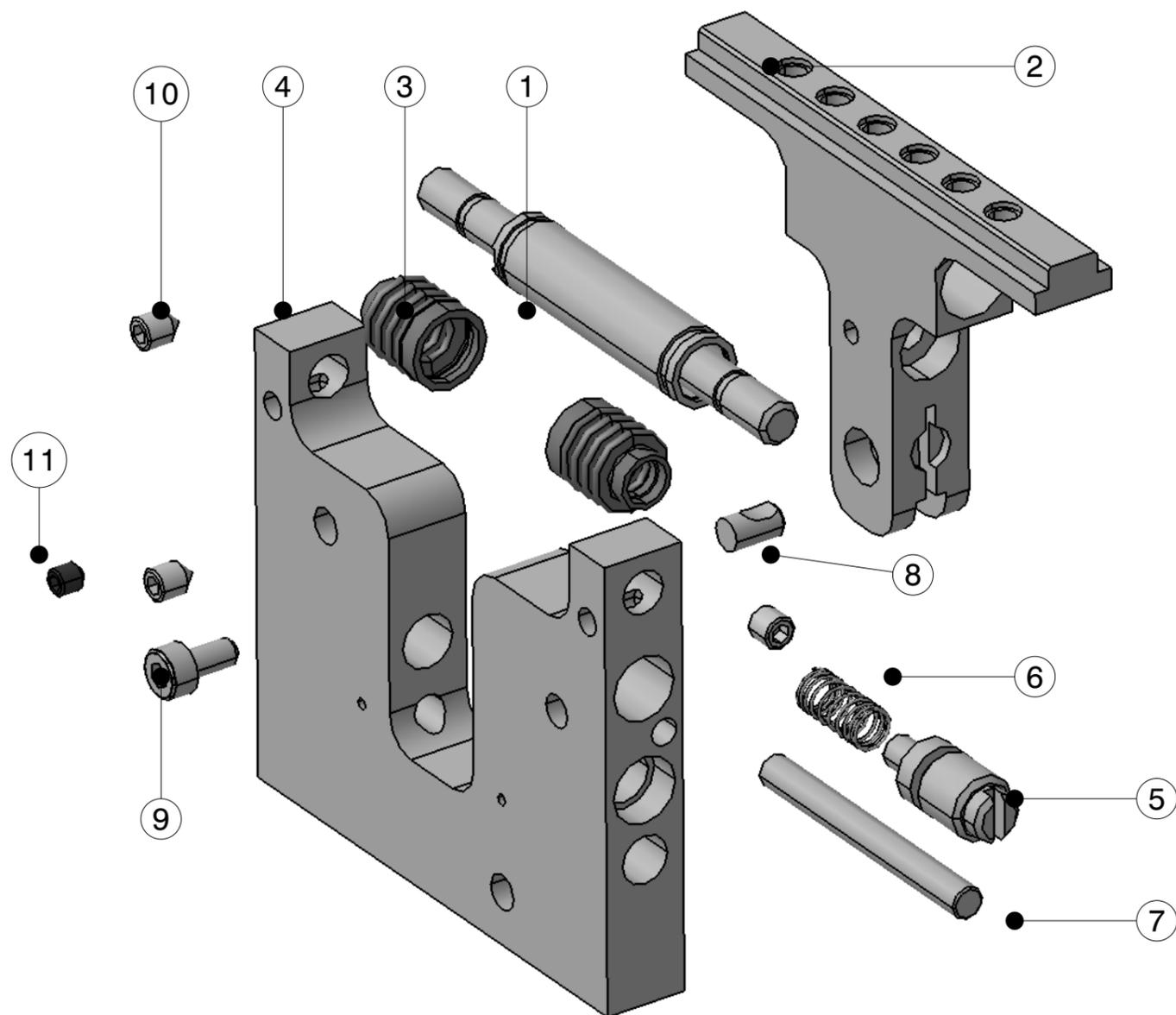
E

D

C

B

A



EXPLODED VIEW

Bill of Material: Minor Assembly

Item No.	Part Number	Quantity	Description
1	Brg Assy Chasis	1	SS ES4010
2	T-piece arm	1	AISI 304
3	Gaiter Chasis	2	Rubber
4	Frame	1	AISI 1020
5	Stop Screw SS	1	SS ES4010
6	Spring	1	SS 302
7	Shaft	1	SS ES4010
8	Dovel Pin	1	SS ES4010
9	Hex Socket Cap Screw SS	1	SS ES4010
10	M3 x 4 Grub Screw Cup Point SS	3	SS ES4010
11	M5 x 2.5 Hex Socket Set Screw SS	1	SS ES4010

		MINOR ASSEMBLY DRAWING			
DRAWN BY Hissan		DRAWING TITLE EXPLODED VIEW -Assembly Drawing			
DATE	01-10-2022	SIZE	DRAWING NUMBER		
		A3	0002		
CHECKED BY		SCALE	2:1	WEIGHT(kg)	0.11
				SHEET	2/2

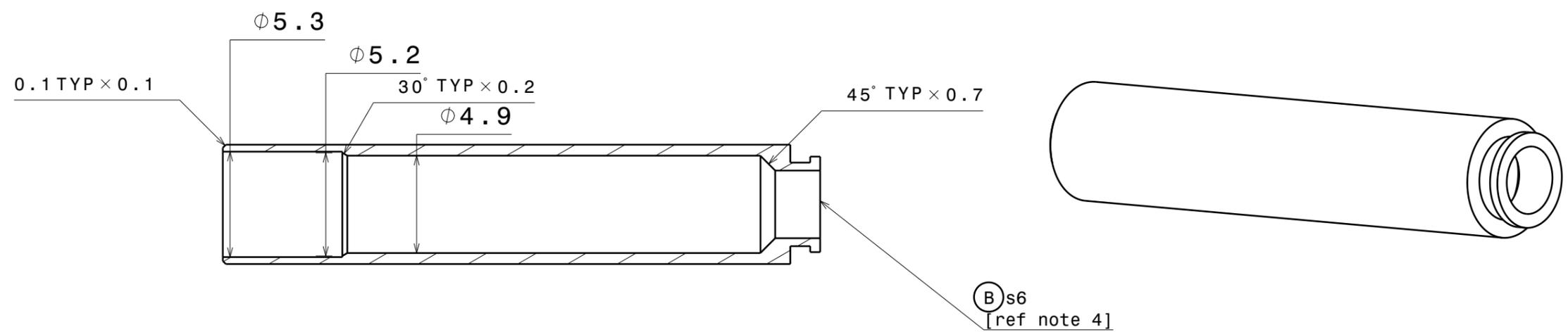
H

G

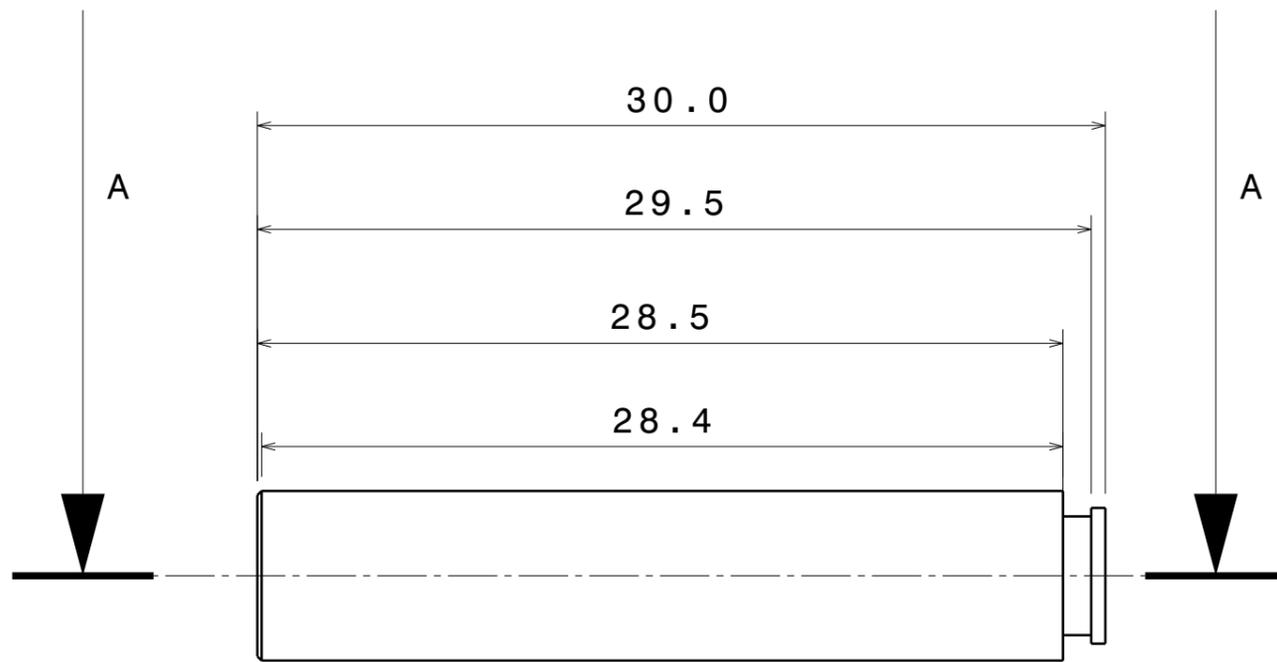
B

A

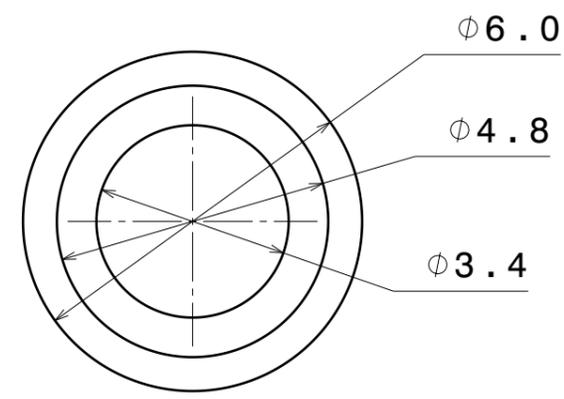
H G F E D C B A



Section view A-A



Front view



scale : 8:1

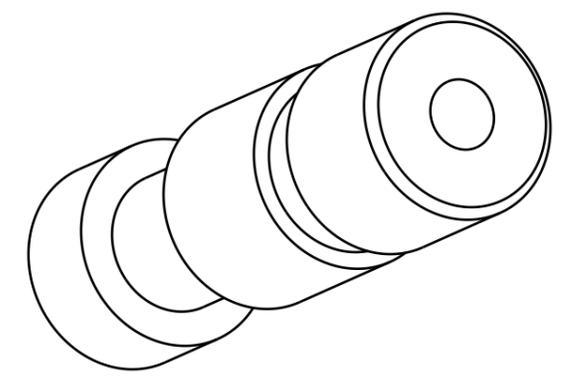
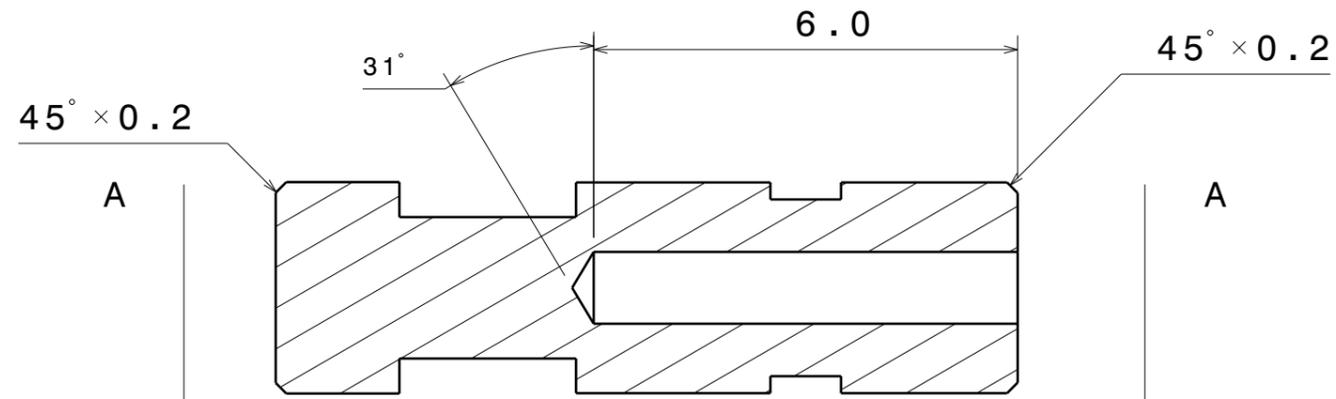
NOTES:

1. All dimensions are in mm.
2. The drawing is in Third angle projection.
3. Material used : SS ES4012
4. B has medium drive fit - H7/s6 with A in drawing [0002]
5. Process of manufacturing - Casting
6. General tolerance : ± 0.1 mm

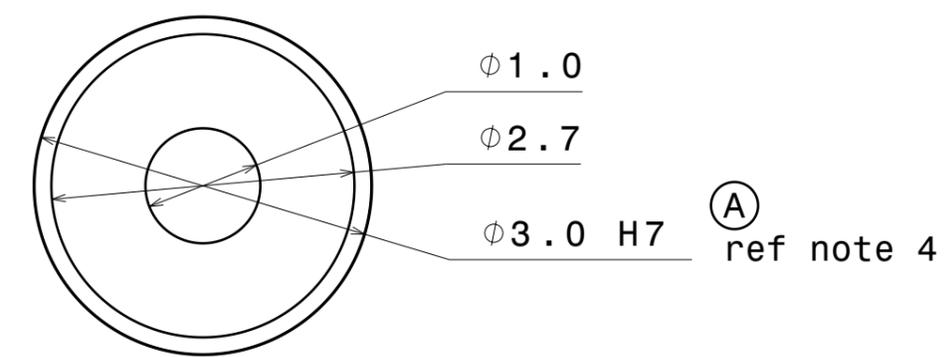
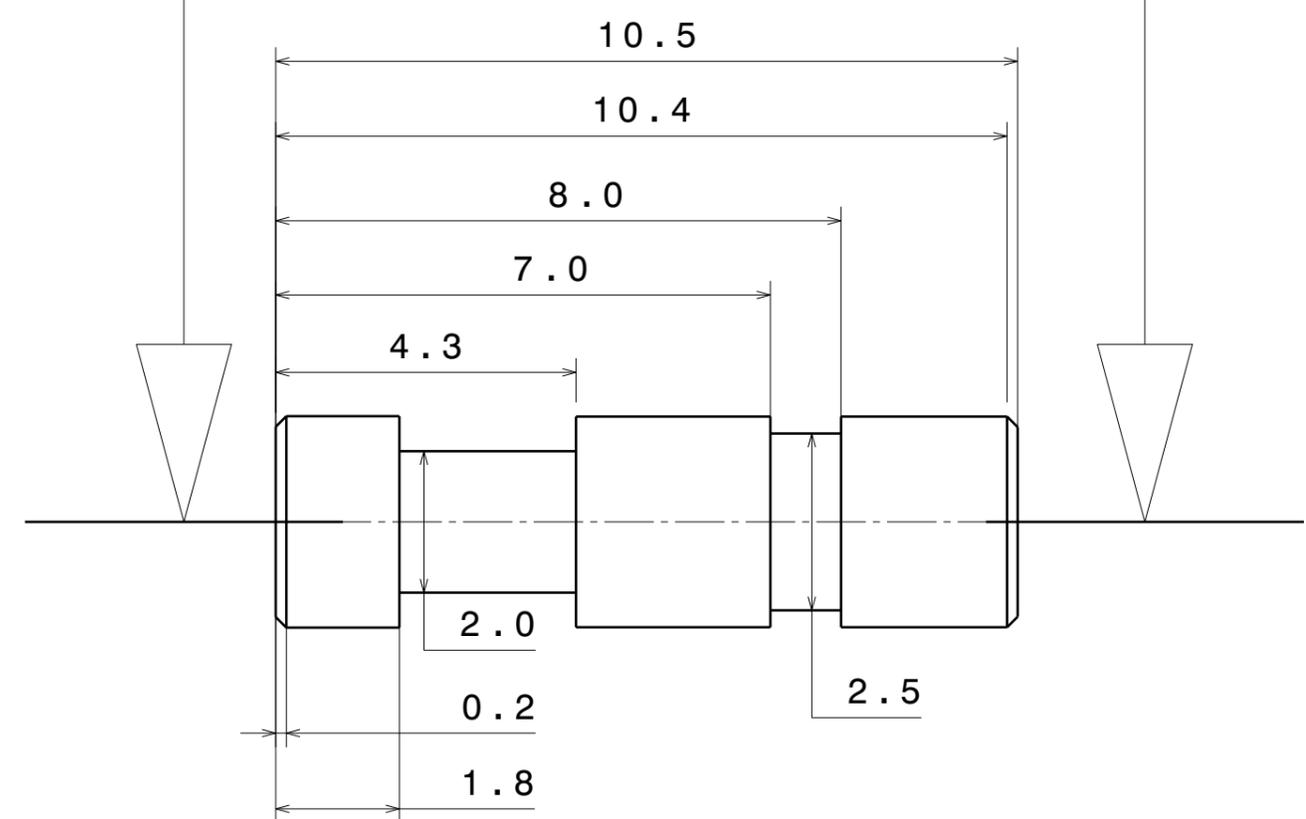
P I	MAJOR ASSEMBLY DRAWING		
DRAWN BY: Hissan	DRAWING TITLE Case - Pneumatic Connection Assembly		
Date: 24-10-2022	SIZE A3	DRAWING NUMBER 0001	
	SCALE 4:1	WEIGHT(kg) 0.002	SHEET 1/1

H G B A

H G F E D C B A



Isometric view



Scale: 16:1

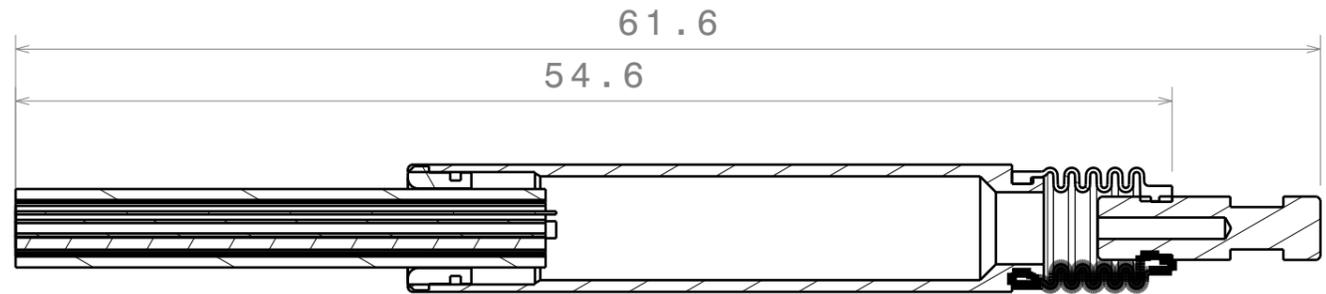
NOTES:

1. All dimensions are in mm.
2. The drawing is in Third angle projection.
3. Material used : SS ES4010
4. the lip side of the case [Drawing 0001] has a medium drive fit - H7/s6 with (A)
5. Process of manufacturing - Casting

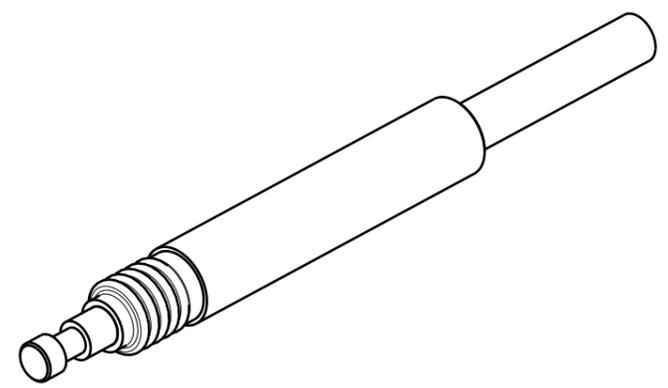
		MAJOR ASSEMBLY DRAWING			
		DRAWING TITLE			
DRAWN BY		Shaft-Pneumatic Connection Assembly			
Hissan		SIZE		DRAWING NUMBER	
DATE		A3		0002	
24-10-2022		SCALE 10:1	WEIGHT (kg)	4.442e-004kg	SHEET 1/1

H G F E D C B A

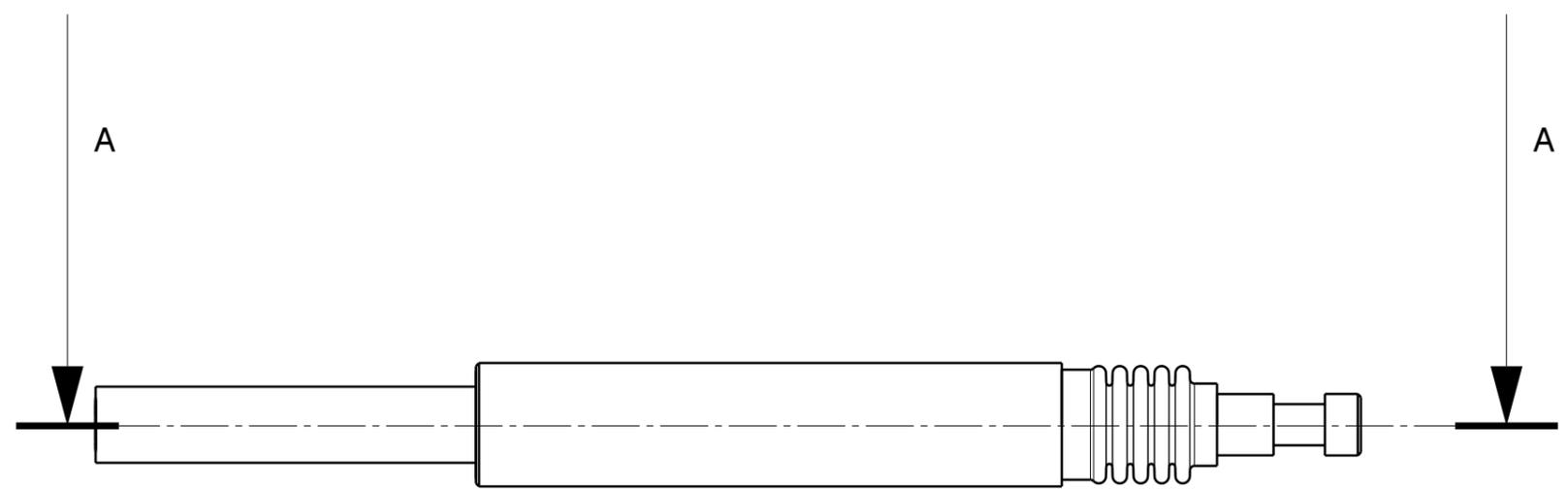
H G F E D C B A



Section view A-A



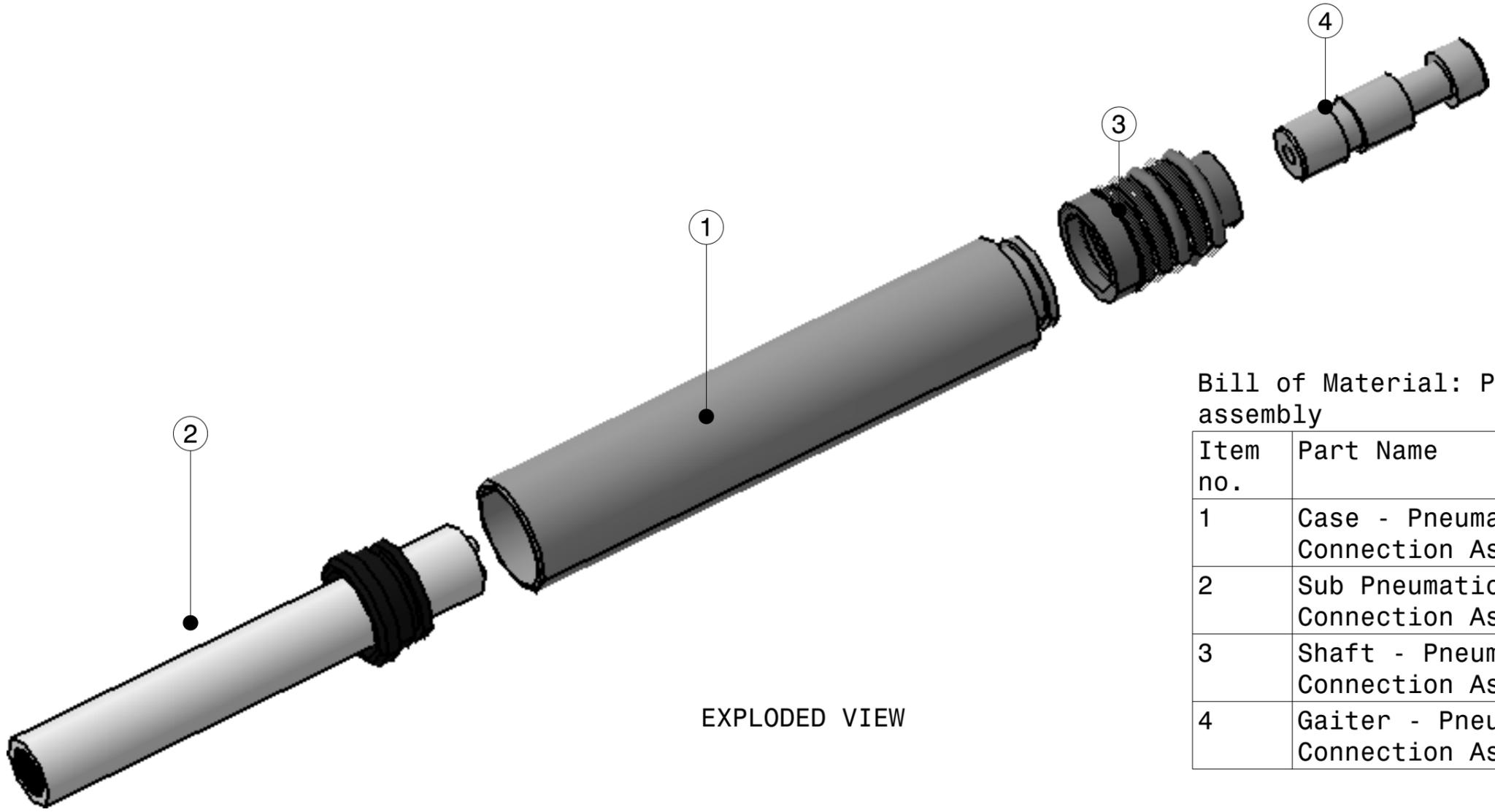
Isometric view
Scale: 2:1



- NOTES :
1. All dimensions are in mm.
 2. The drawing is in third angle projection.
 3. Refer the BOM for materials
 4. Process of manufacturing - Casting
 5. General tolerance : ± 0.1 mm
 6. Align the shaft with the lip side of the case.
insert the gaiter though with with 0 offset over the cse .

	MAJOR ASSEMBLY ASSIGNMENT			
DRAWN BY Hissan	DRAWING TITLE Pneumatic Connection Assembly Drawing			
DATE 23-10-2022	SIZE A3	DRAWING NUMBER 0003		
	SCALE 3:1	WEIGHT(kg) 0.003	SHEET 1/2	

H G B A



EXPLODED VIEW

Bill of Material: Pneumatic connection assembly

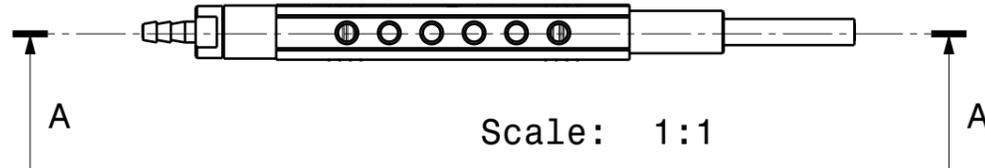
Item no.	Part Name	quantity	material
1	Case - Pneumatic Connection Assembly	1	SS ES4012
2	Sub Pneumatic Connection Assembly	1	NYLON
3	Shaft - Pneumatic Connection Assembly	1	SS ES4010
4	Gaiter - Pneumatic Connection Assembly	1	Rubber

NOTES:

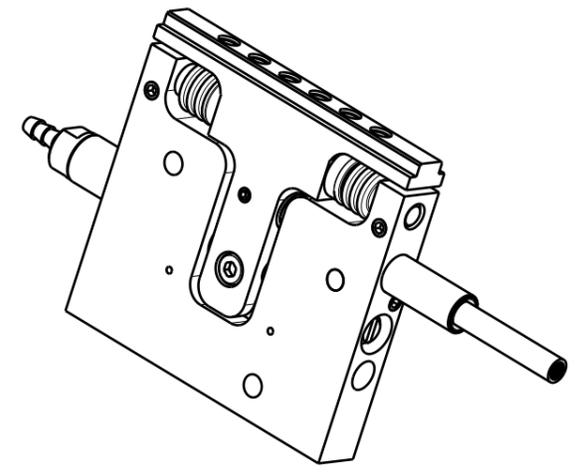
1. All dimensions are in mm.
2. The drawing is in third angle projection.
3. Plug part 2 into 1 as shown with the nylon gaiter having 0 offset with the tip of the case
4. General tolerance : ± 0.1 mm

		MAJOR ASSEMBLY DRAWING			
DRAWN BY		DRAWING TITLE			
Hissan		EXPLODED VIEW		Pneumatic connection assembly	
DATE		SIZE		DRAWING NUMBER	
25-10-2022		A3		0004	
		SCALE	2:1	WEIGHT(kg)	0.003
				SHEET	2/2

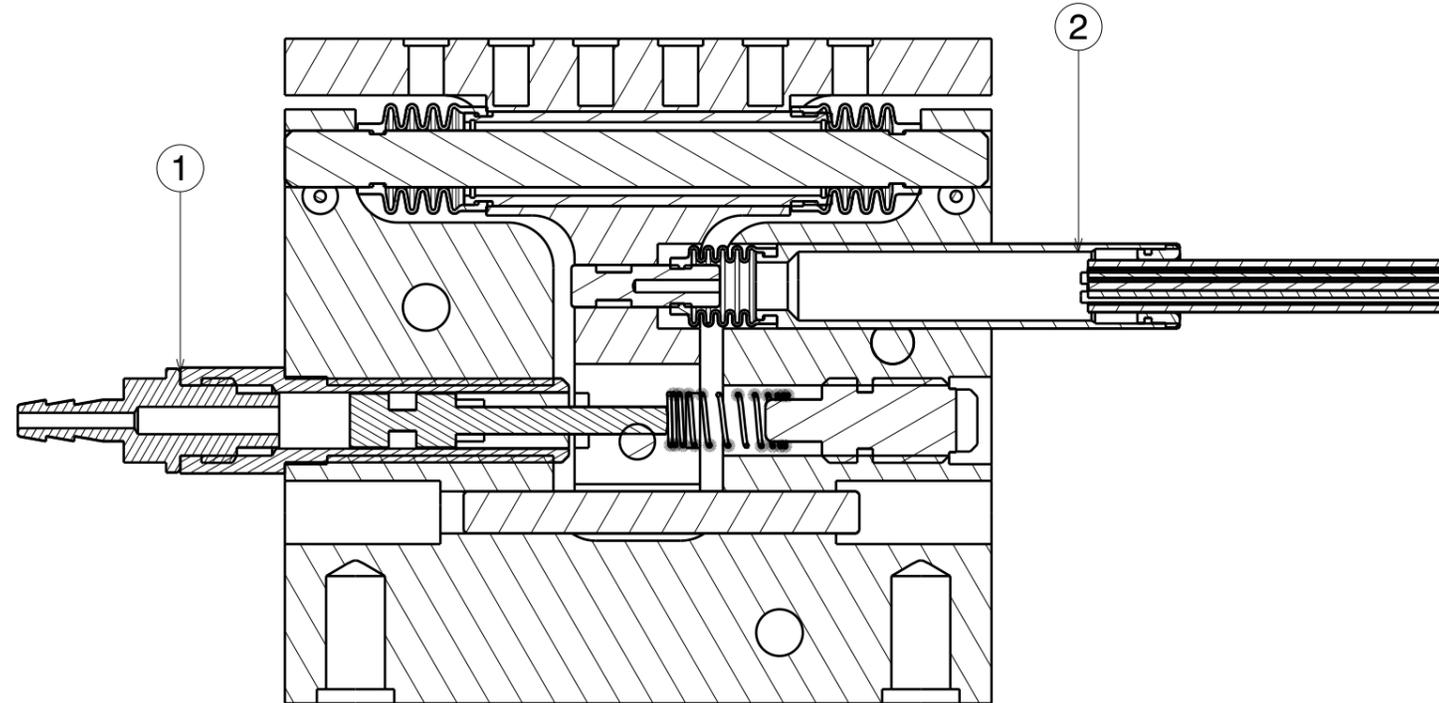
H G F E D C B A



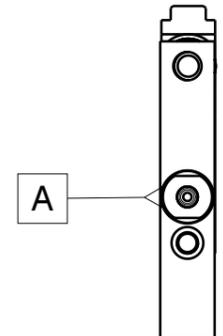
Scale: 1:1



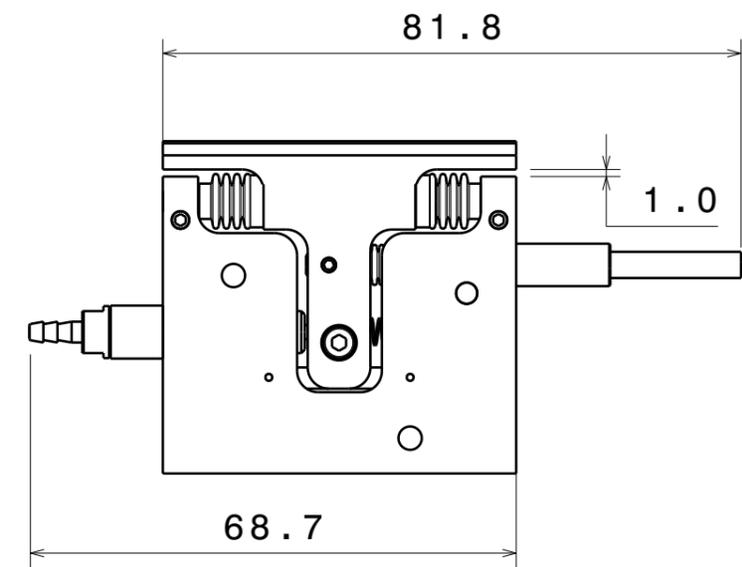
Isometric view
Scale: 1:1



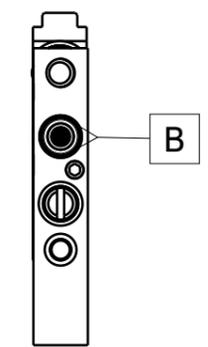
Section view A-A



Scale: 1:1



Scale 1:1



Scale 1:1

NOTES :

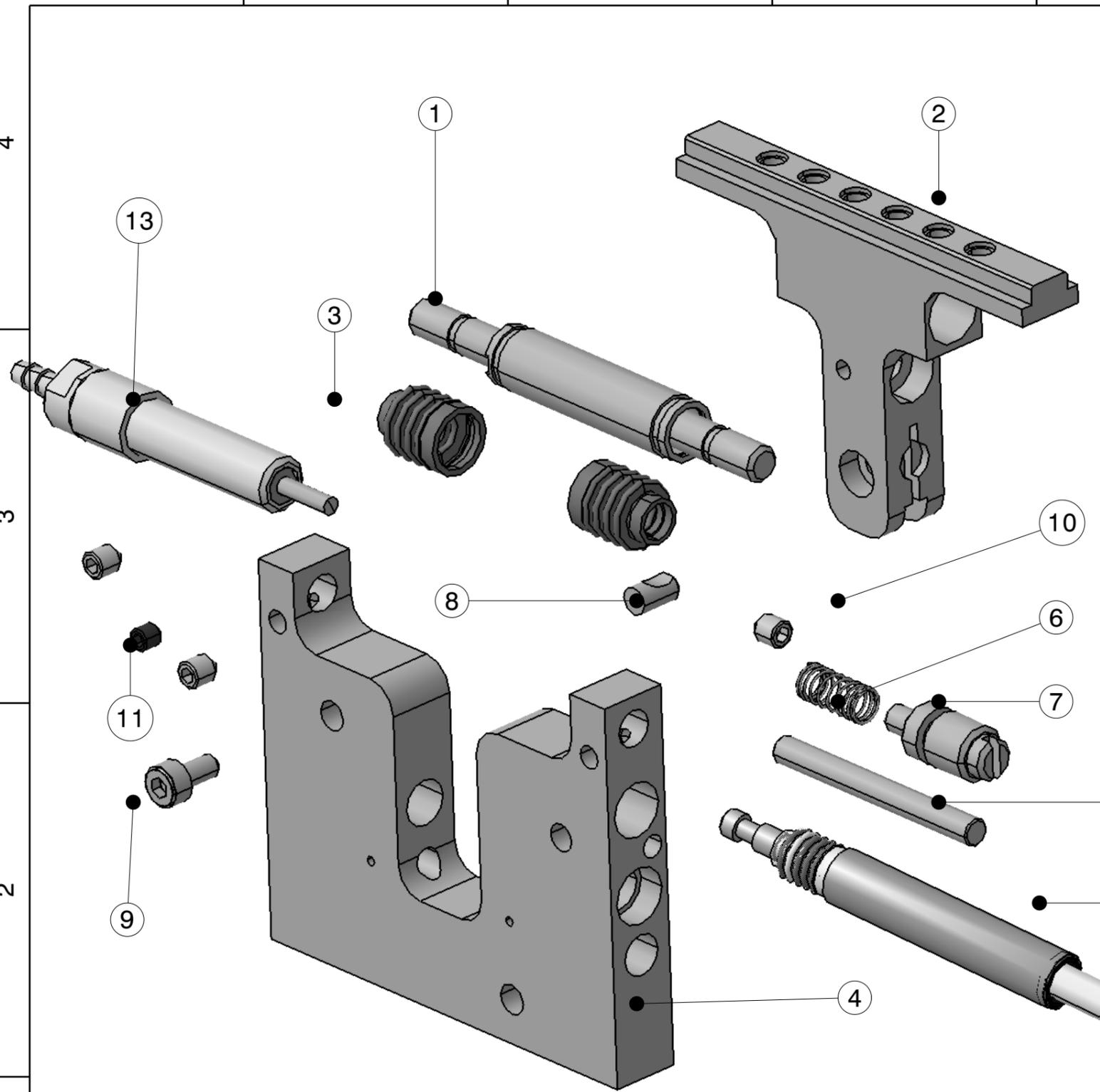
1. All dimesnions are in mm.
2. The drawing is in third angle projection
3. No.1 has to be inserted to hole A and No.2 has to be inserted to hole B
4. General tolerance : ± 0.1 mm
5. Refer BOM for the materials
6. All fasteners are to be attached to their respective postions
6. Flush the assemblies to the vertical arm of T-piece.

DRAWN BY	P I I		
Hissan	DRAWING TITLE MAJOR ASSEMBLY DRAWING		
DATE	SIZE A3	DRAWING NUMBER ASSY 0005	
28-10-2022	SCALE 2:1	WEIGHT(kg) 0.12	SHEET 1/2

H G B A

Bill of Material: MAJOR ASSEMBLY DRAWING

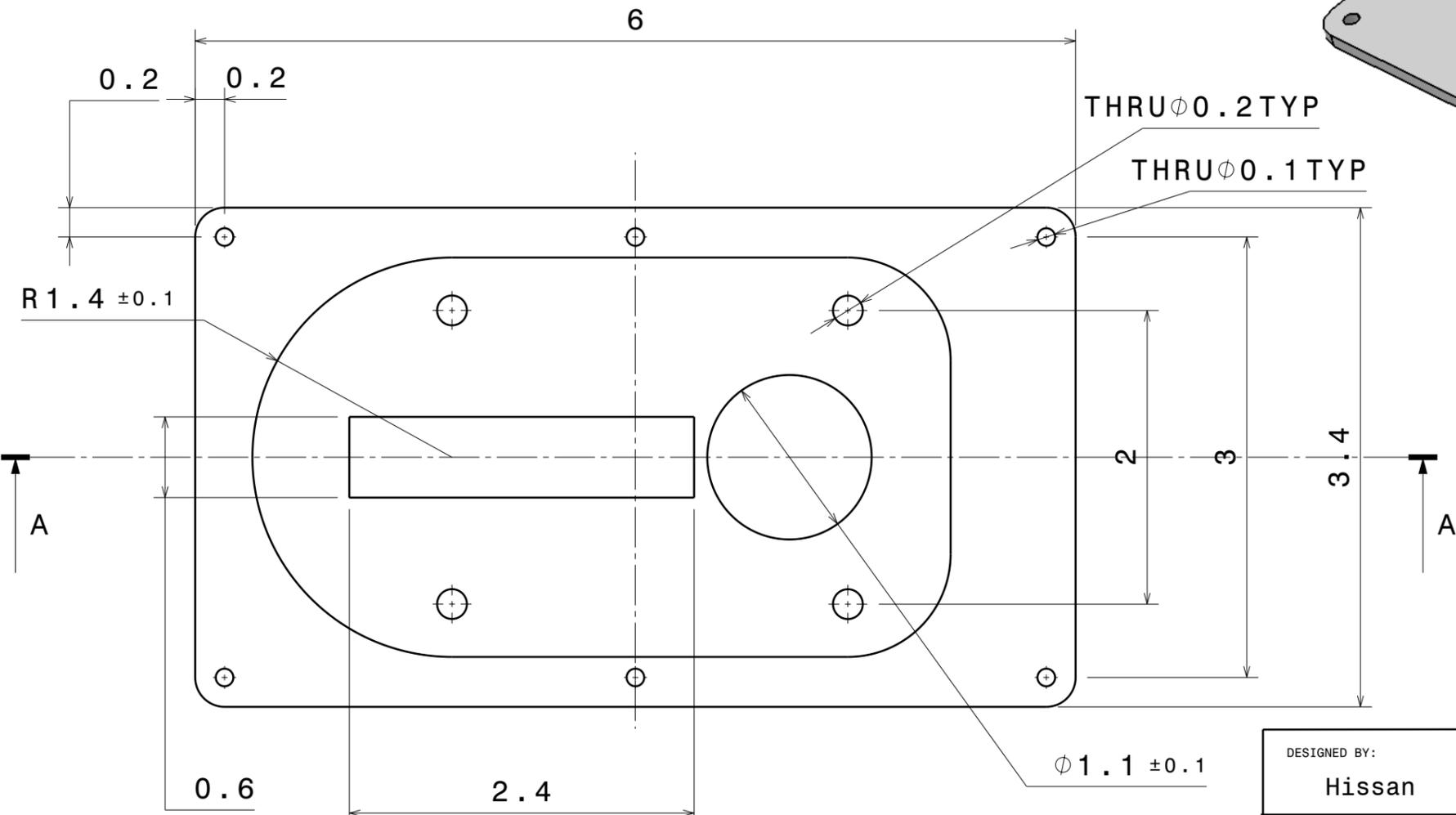
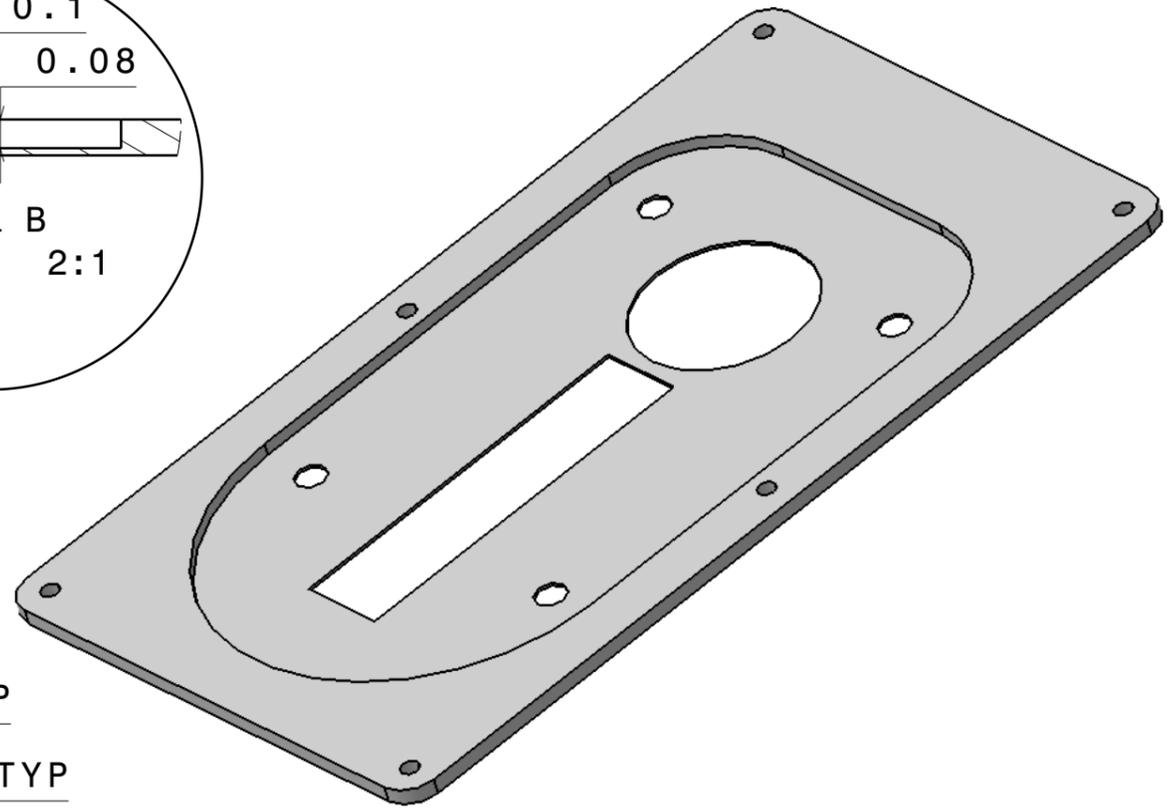
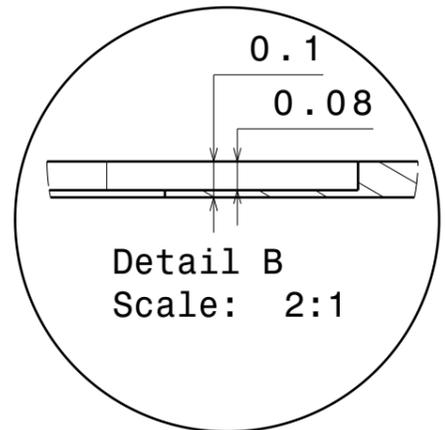
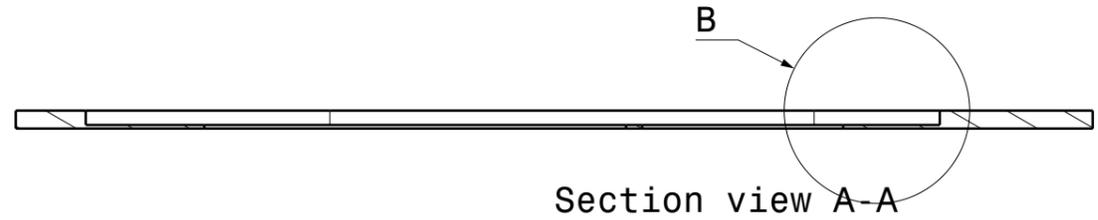
Item No.	Part Name	Quantity	Material
1	Brg Assy Chasis	1	SS ES4010
2	T-peice arm	1	AISI 304
3	Gaiter Chasis	2	Rubber
4	Frame	1	AISI 1020
5	Stop Screw SS	1	SS ES4010
6	Spring	1	SS 302
7	Shaft	1	SS ES4010
8	Dovel Pin	1	SS ES4010
9	Hex Socket Cap Screw SS	1	SS ES4010
10	M3 x 4 Grub Screw Cup Point SS	3	SS ES4010
11	M5 x 2.5 Hex Socket Set Screw SS	1	SS ES4010
12	Pneumatic connection assembly	1	Ref ASSY BOM
13	Pneumatic Actuator Assembly	1	SS ES4012 [nozzle: SS316]



EXPLODED VIEW

DRAWN BY	P I		
Hissan	DRAWING TITLE MAJOR ASSEMBLY DRAWING Exploded View		
DATE	SIZE A3	DRAWING NUMBER 0006	
28-10-2022	SCALE 2:1	WEIGHT(kg) 0.12	SHEET 2/2

H G F E D C B A



Notes:
All dimensions are in inches.
The lower surface of the part has to be machined and filled to ± 0.002 in.
the inner surface of the base pocket has to be machined under ± 0.001 in.
to make sure the part is air tight.
General tolerance is ± 0.01 in.
Manufacturing method: Casting and machining.

DESIGNED BY: Hissan		MOUNT PLATE			
DATE: 05-12-2022					PITOT TUBE PROBE MOUNT
SIZE A3		P	I		
scale 1:1	Weight (lbs) 0.3	DRAWING NUMBER 02018	Material AISI-321	SHEET 1/1	
This drawing is our property; it can't be reproduced or communicated without our written agreement.					

H G B A

H G F E D C B A

4

3

2

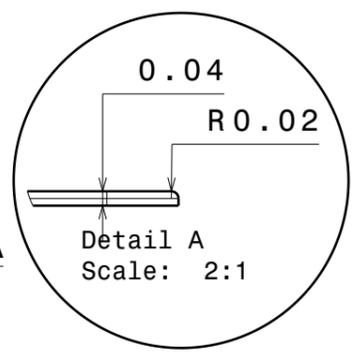
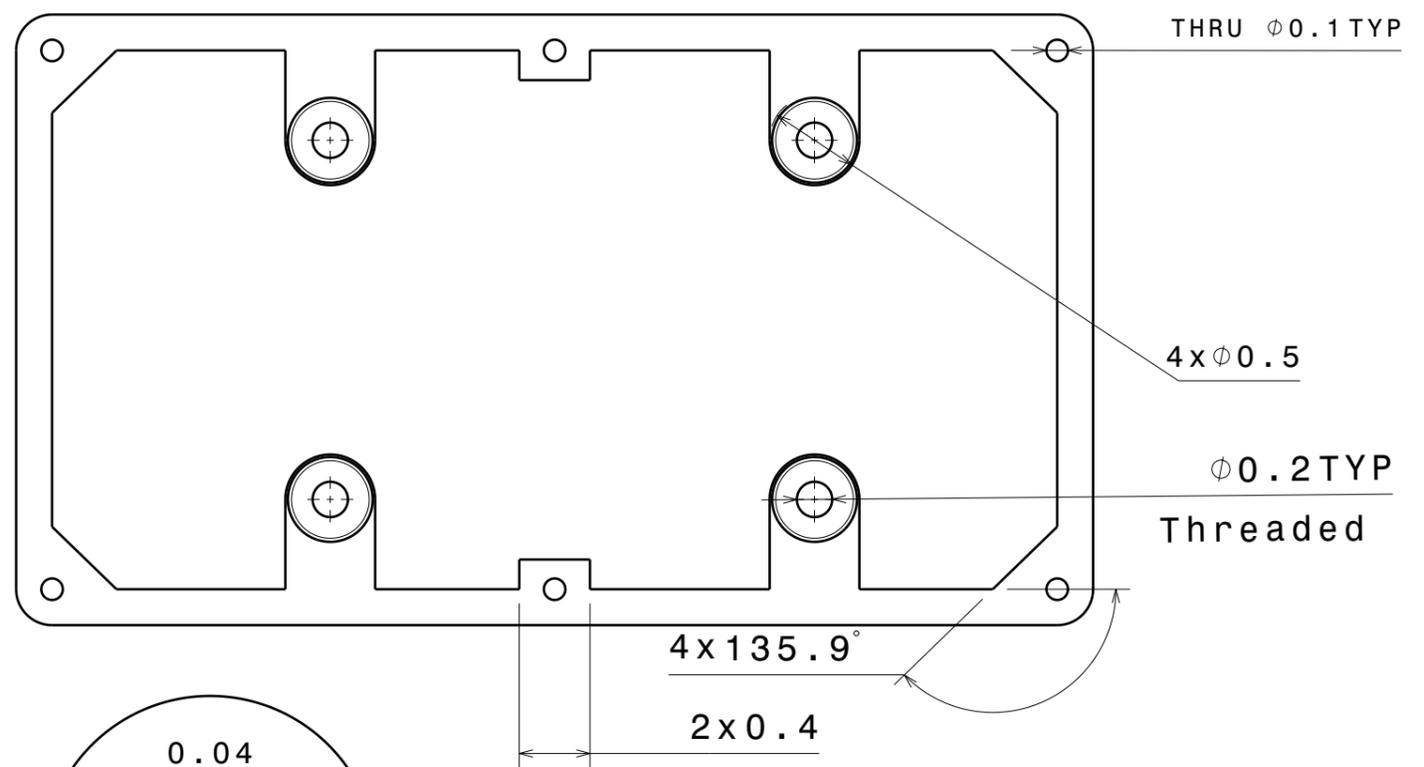
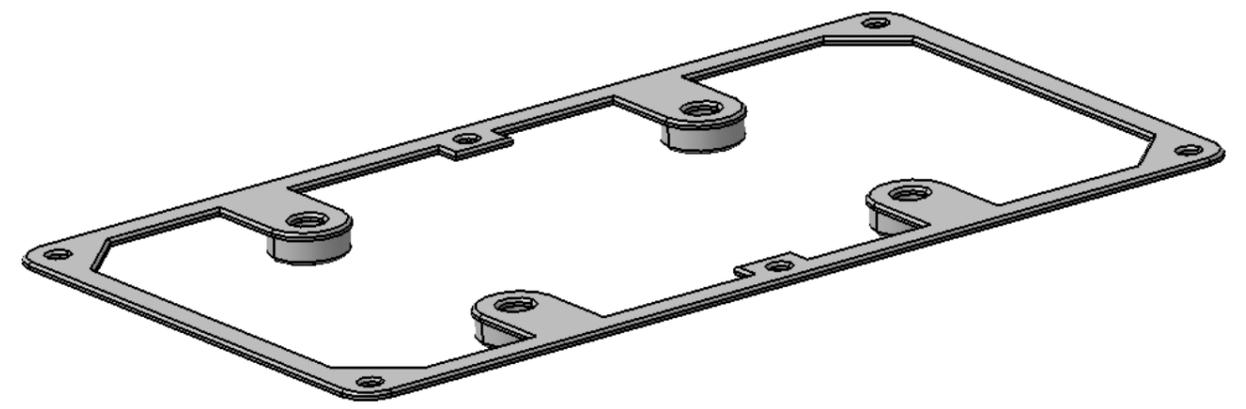
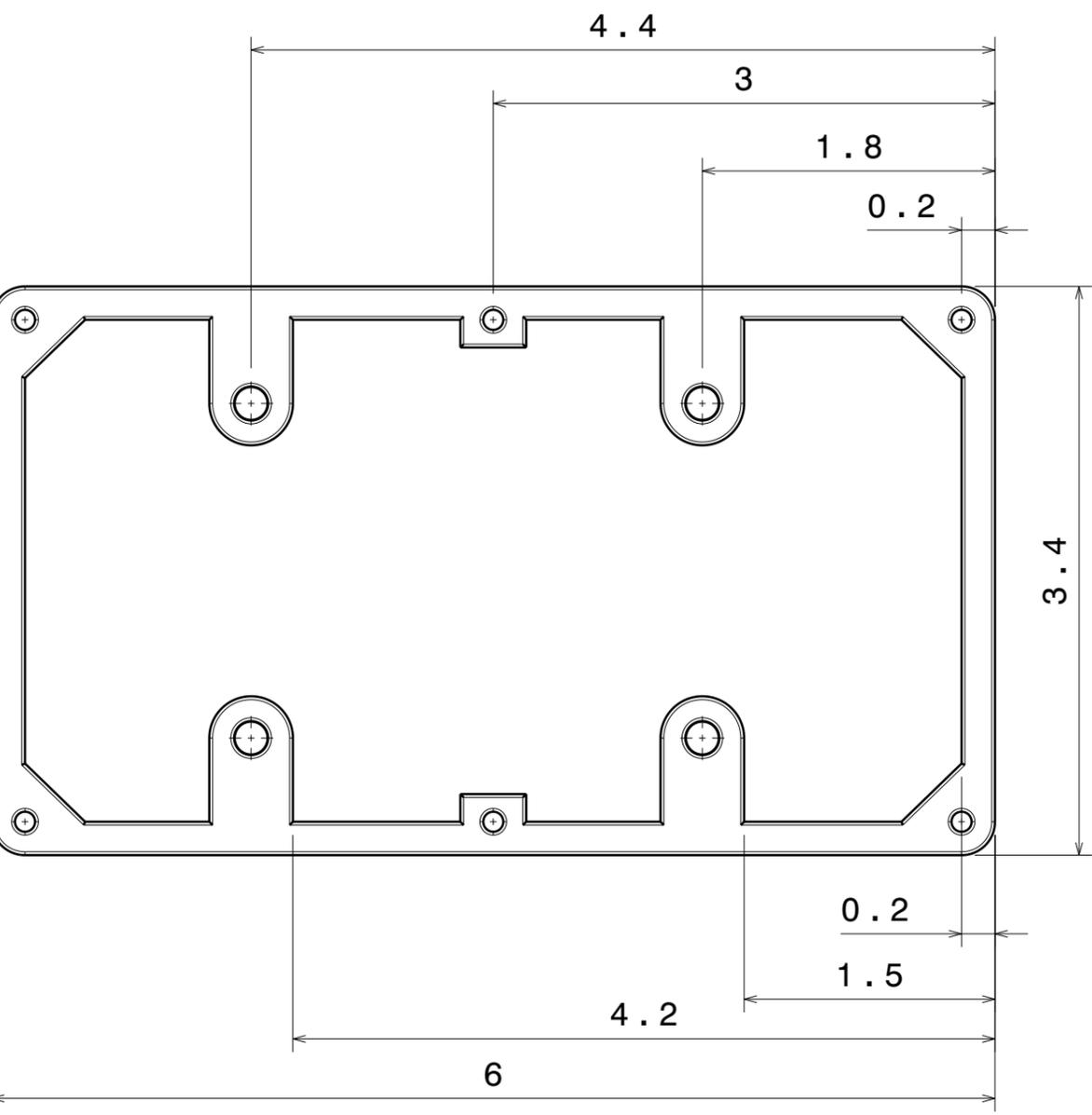
1

4

3

2

1

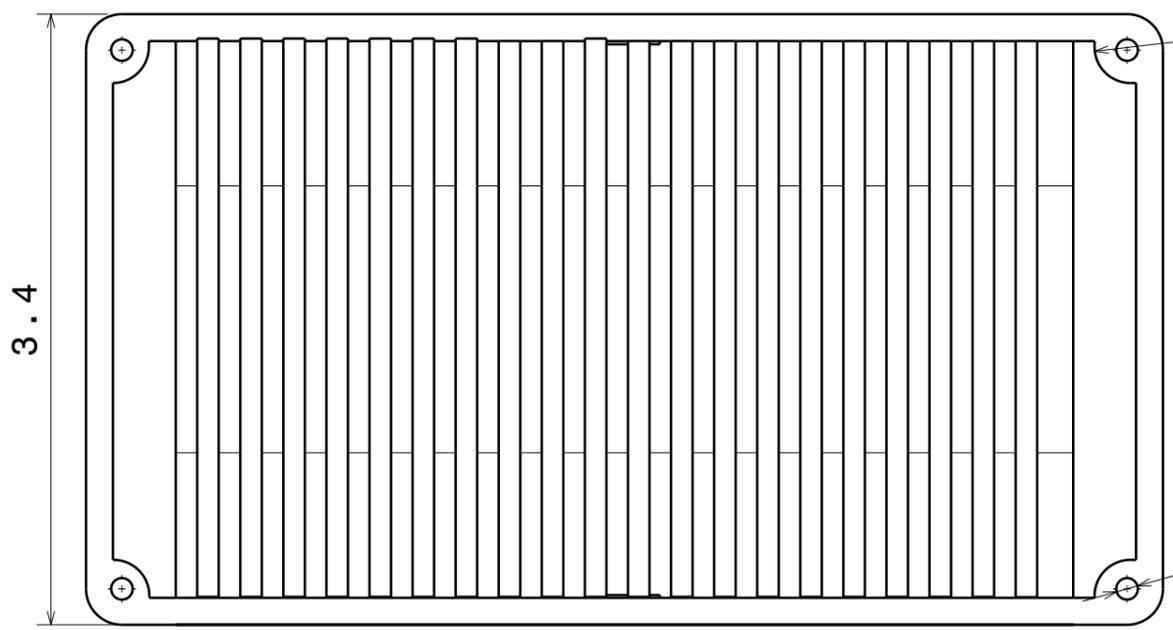


- NOTES:
 1.All dimensions are in inches.
 2.The edges of the whole structure is chamfered to 0.02" .
 3.The edges of the nut plate has to be rounded .
 4.The top surface must be machined and polished to reduce vibrations.
 5.All holes are threaded as per the bolt specifications.
 6.Manufacturing method : Casting and machining.

DESIGNED BY: Hissan		SUPPORT PLATE	
DATE: 05-12-2022			
SIZE A3		P	I
SCALE 1:1	WEIGHT (oz) 0.04	DRAWING NUMBER 02019	SHEET 1/1
This drawing is our property; it can't be reproduced or communicated without our written agreement.			

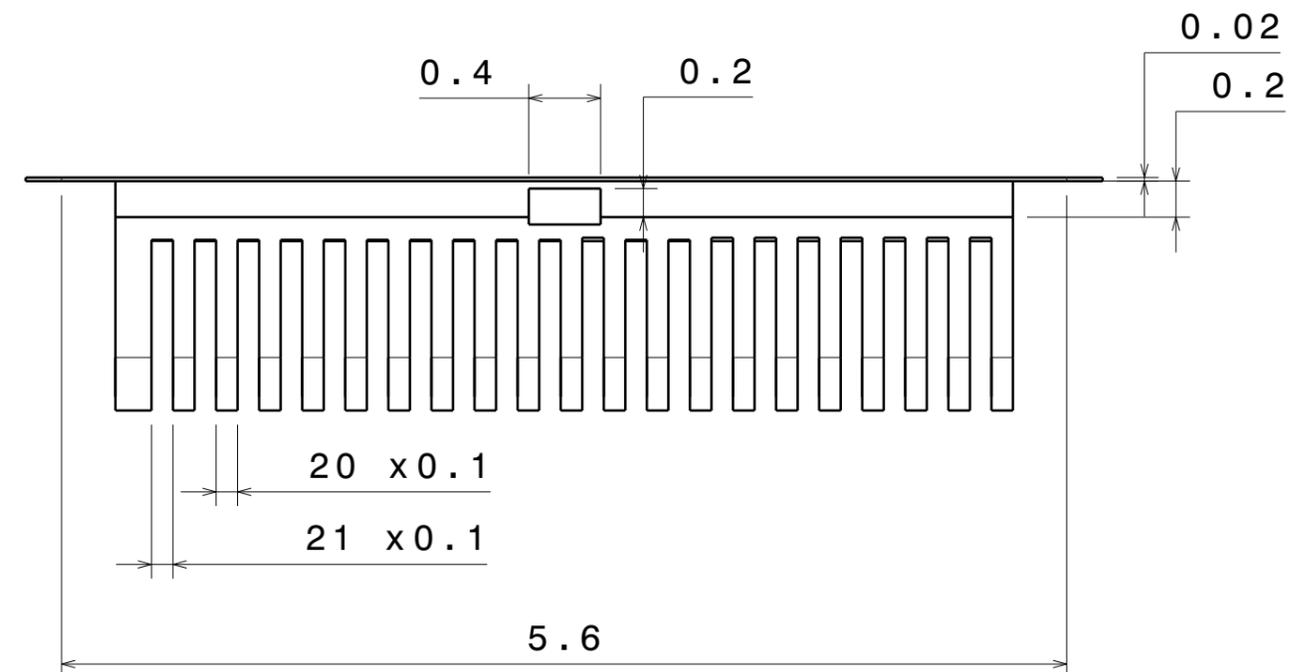
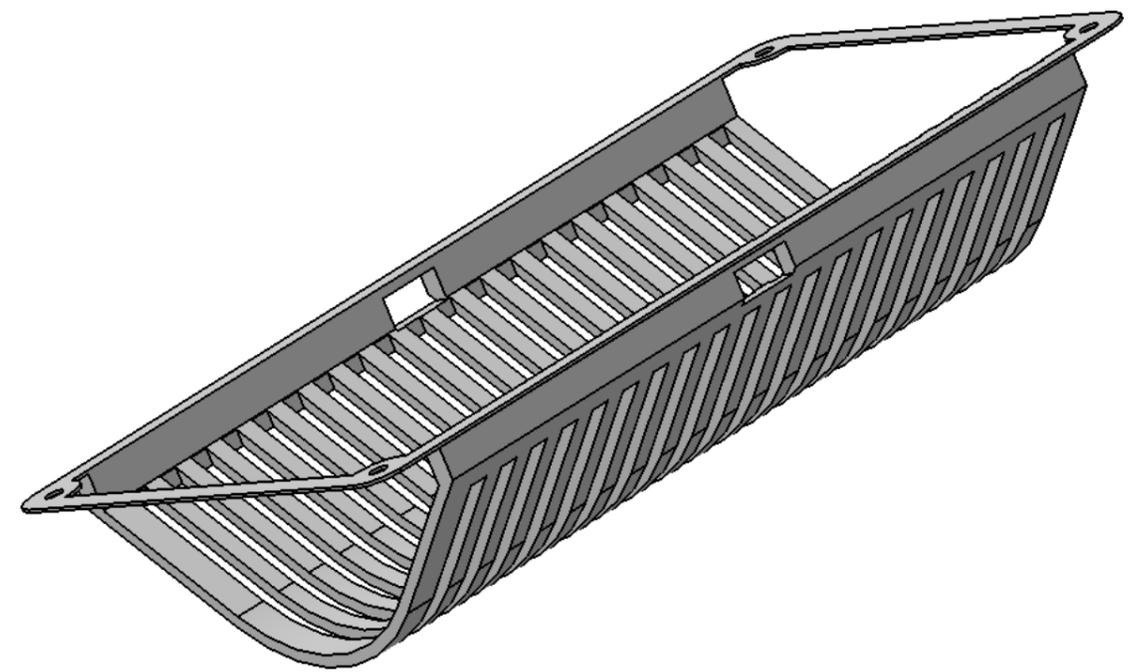
H G B A

H G F E D C B A



THRU R0.2 TYP
Threaded

THRU ϕ 0.1 TYP
Threaded



0.4

0.2

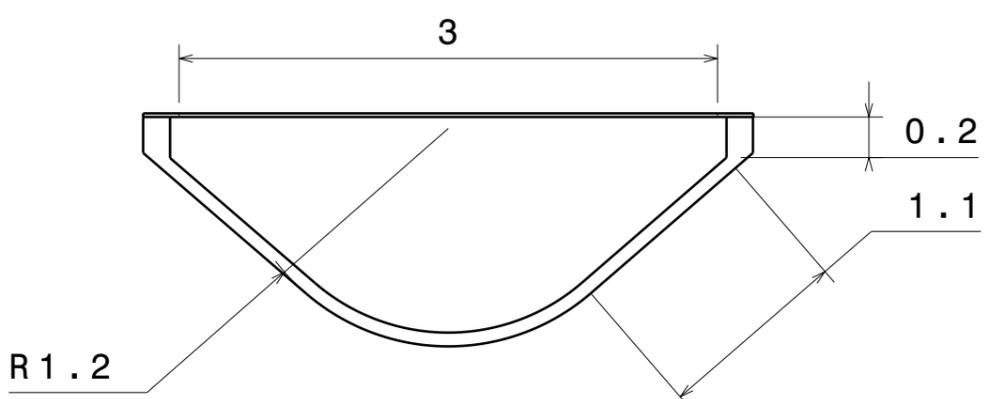
0.02

0.2

20 x 0.1

21 x 0.1

5.6



3

0.2

1.1

R1.2

NOTES:
All dimensions are in inches .
The weight is denoted in ounces.
Manufacturing Method: Moulding , casting and cutting.
Use suitable adhesive to firmly fasten the the sides.

DESIGNED BY: Hissan		TUBE CLIP		
DATE: 09-12-2022		PITOT TUBE PROBE MOUNT		
SIZE A3		P	I	
SCALE 1:1	WEIGHT (oz) 0.6	DRAWING NUMBER 02021	MATERIAL Neoprene	SHEET 1/1
This drawing is our property; it can't be reproduced or communicated without our written agreement.				

H G B A

H G F E D C B A

4

4

3

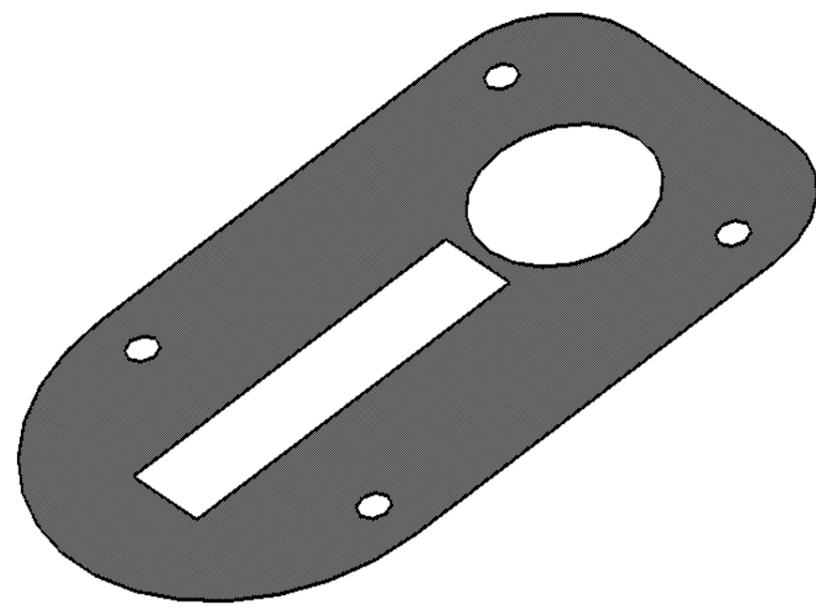
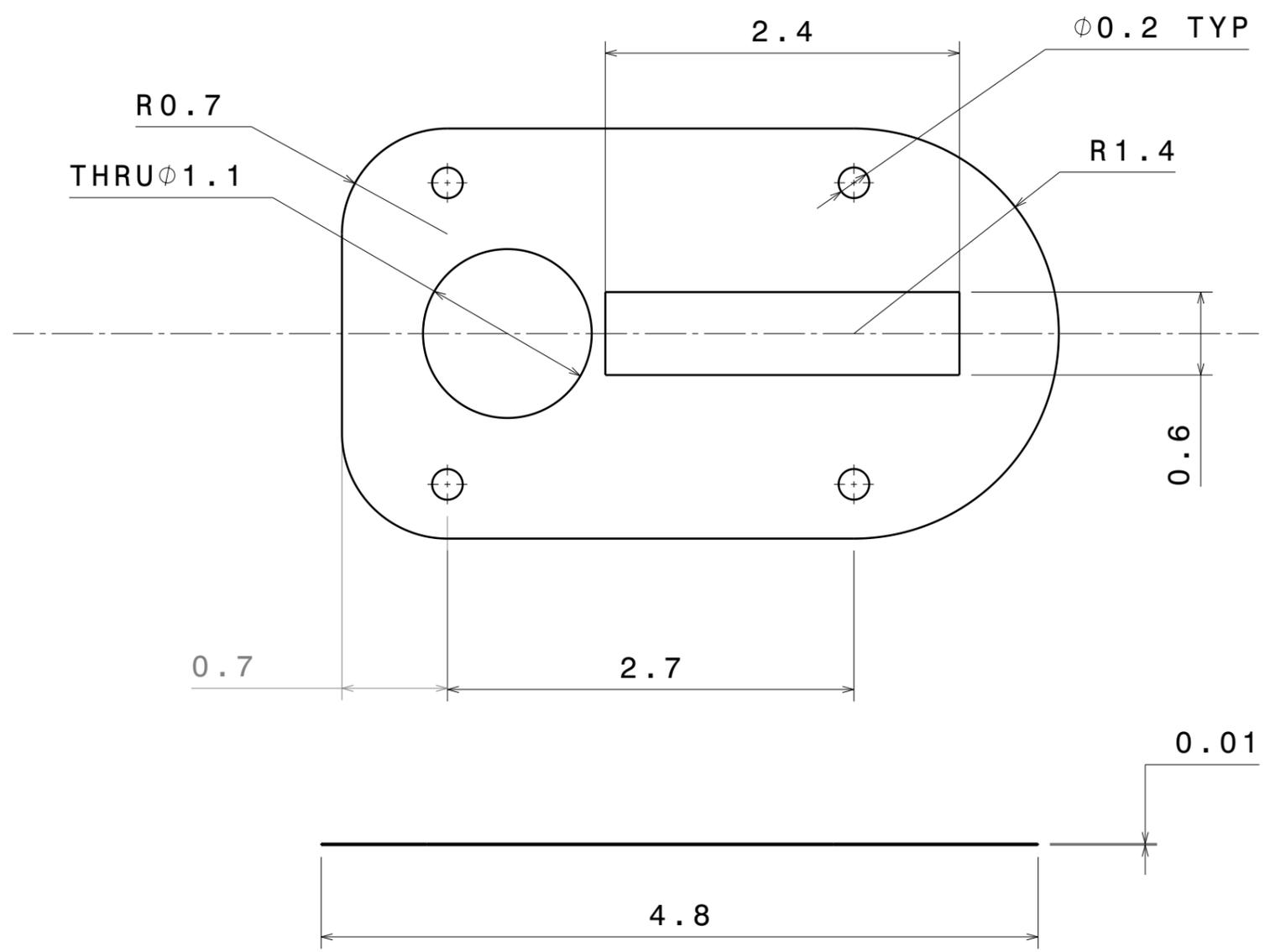
3

2

2

1

1



Notes :
 All dimensions are in inches.
 Method of manufacturing : Lathe cut.
 tolerance is ± 0.001 in on all sides.
 Material must be inspected and free from uneven surface.
 Apply adhesive on the lower side before assembly.

DESIGNED BY: Hissan		GASKET			
DATE: 10-12-2022					PITOT TUBE PROBE MOUNT
SIZE A3		P	I		
SCALE 1:1	WEIGHT (oz) 0.04	DRAWING NUMBER 2022	MATERIAL Neoprene	SHEET 1 / 1	

H G B A

H G F E D C B A

4

4

3

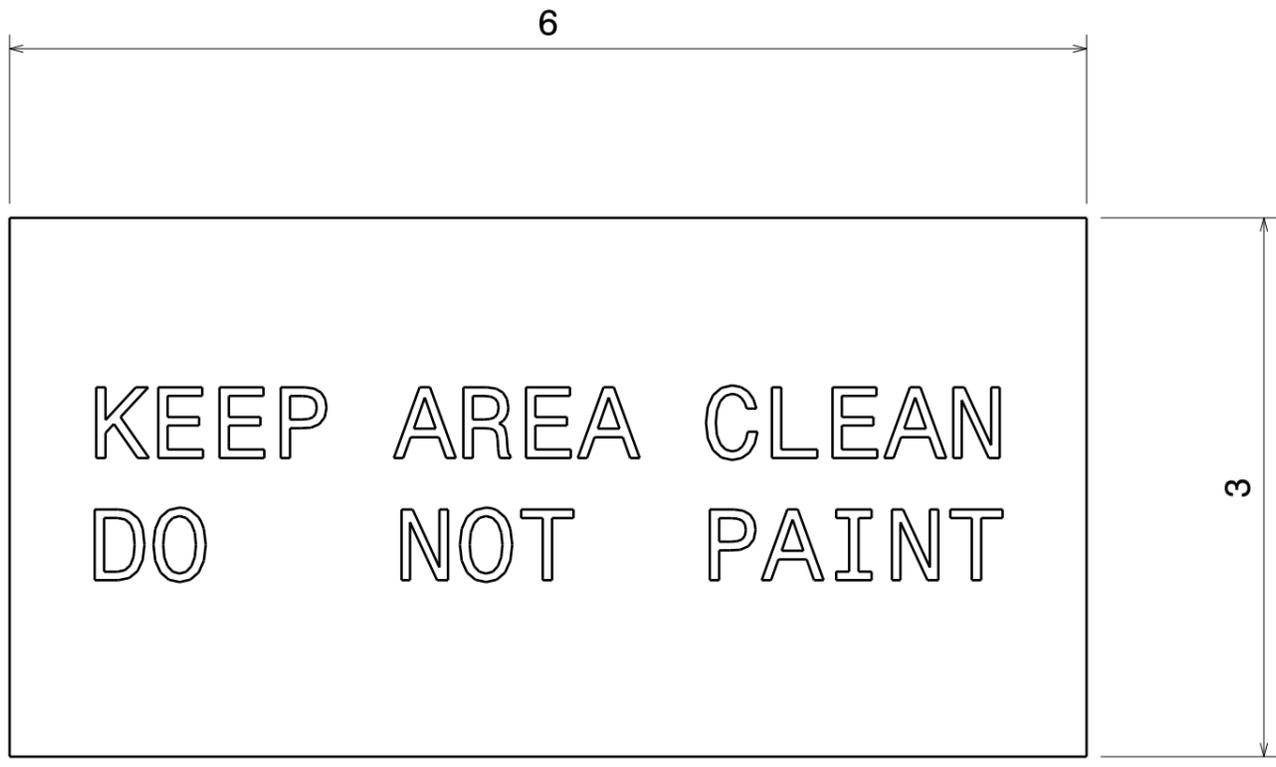
3

2

2

1

1



- NOTES:
- 1.All dimensions are in inches.
 - 2.The plate has to be cut out of white vinyl sticker sheets
Paint the legends black .
 - 3.Use adhseive mentioned in bill of material to stick the plate
2" above the mount plate.
 - 4.Thickness of the plate is 0.01in.
 - 5.Check for split ends in the corners.

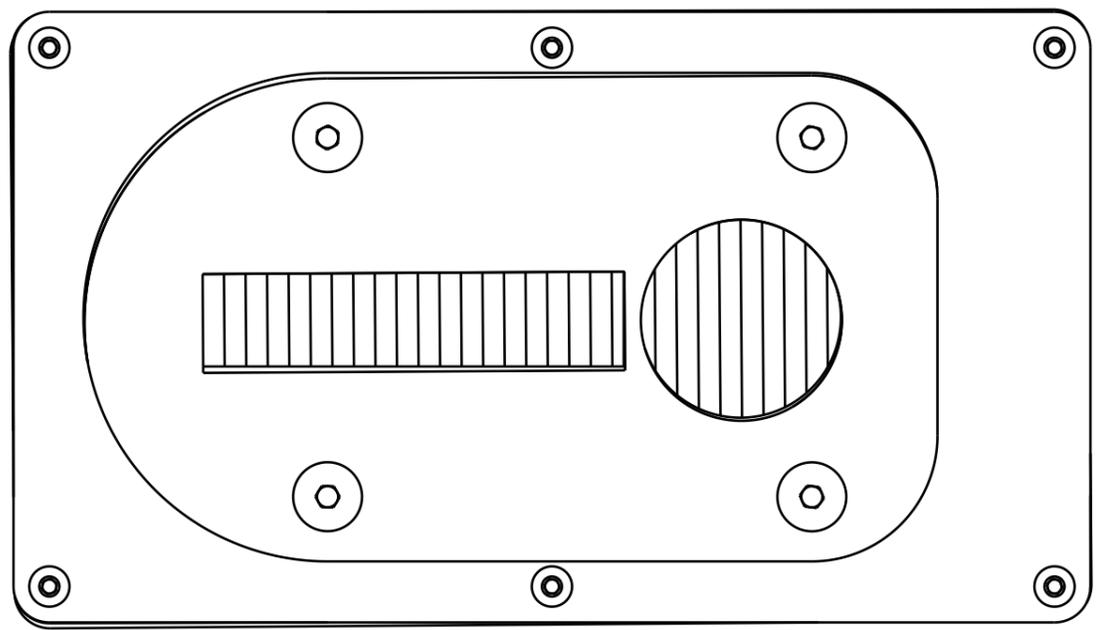
*refer assembly instructions

SIGN PLATE			
DRAWING TITLE Pitot tube probe mount		DRAWN BY Hissan	
SIZE A3	DRAWING NUMBER 2022	Material Opaque vinyl	
SCALE 1:1	WEIGHT(oz) 0.1	SHEET 1/1	

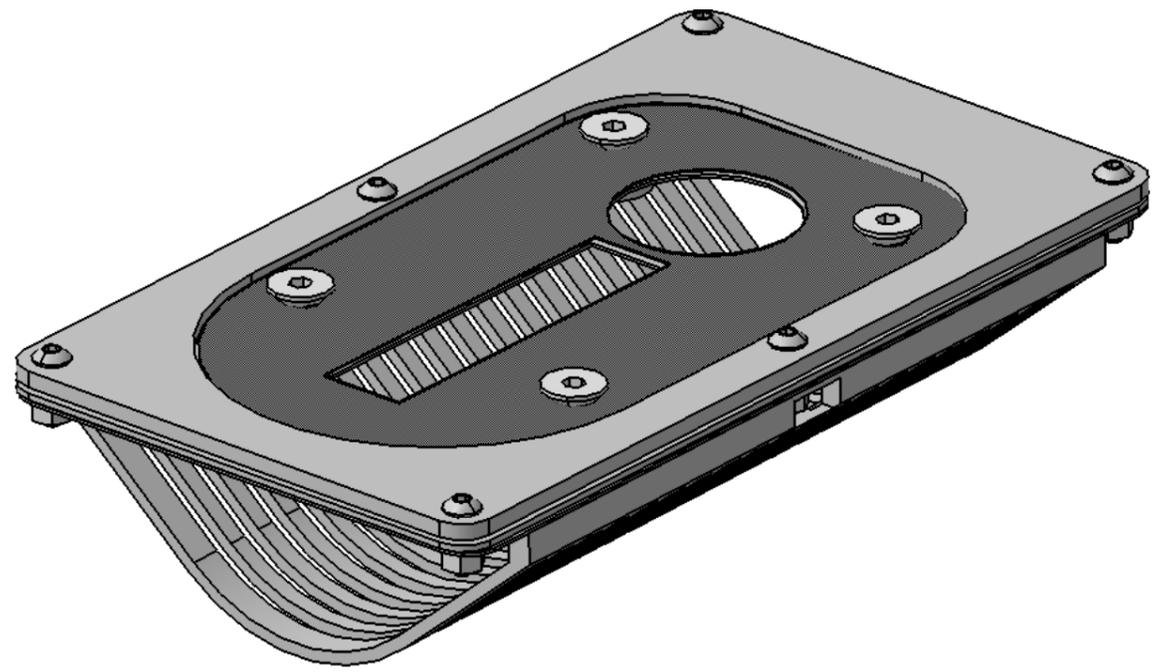
H G B A

H G F E D C B A

4



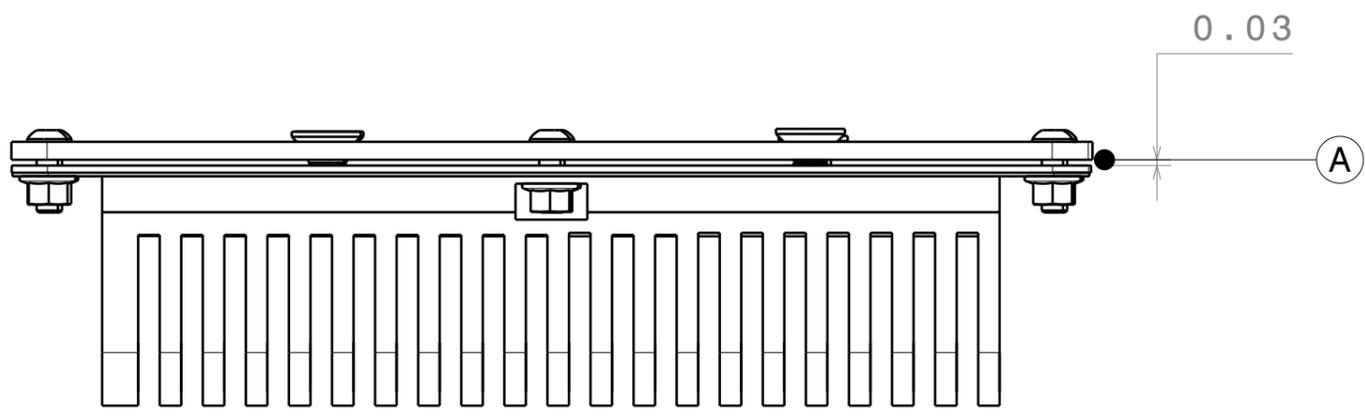
3



4

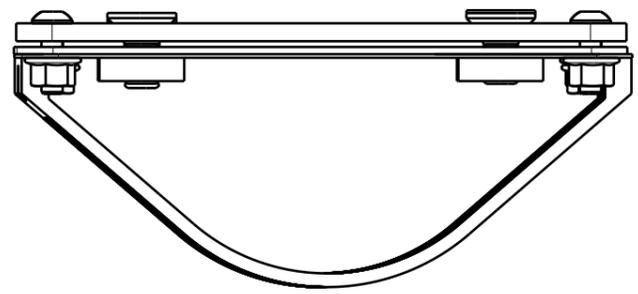
3

2



0.03

A



2

1

NOTES:
 All dimensions are in inches.
 'A' is the thickness of the fuselage.

*refer sheet 4 for assembly instructions

PITOT TUBE PROBE MOUNT			
DRAWING TITLE Assembly		DRAWN BY Hissan	
SIZE A3	DRAWING NUMBER 2023		
SCALE 1:1	WEIGHT (lbs) 0.4	SHEET 1/4	

H G B A

1

H G F E D C B A

4

4

3

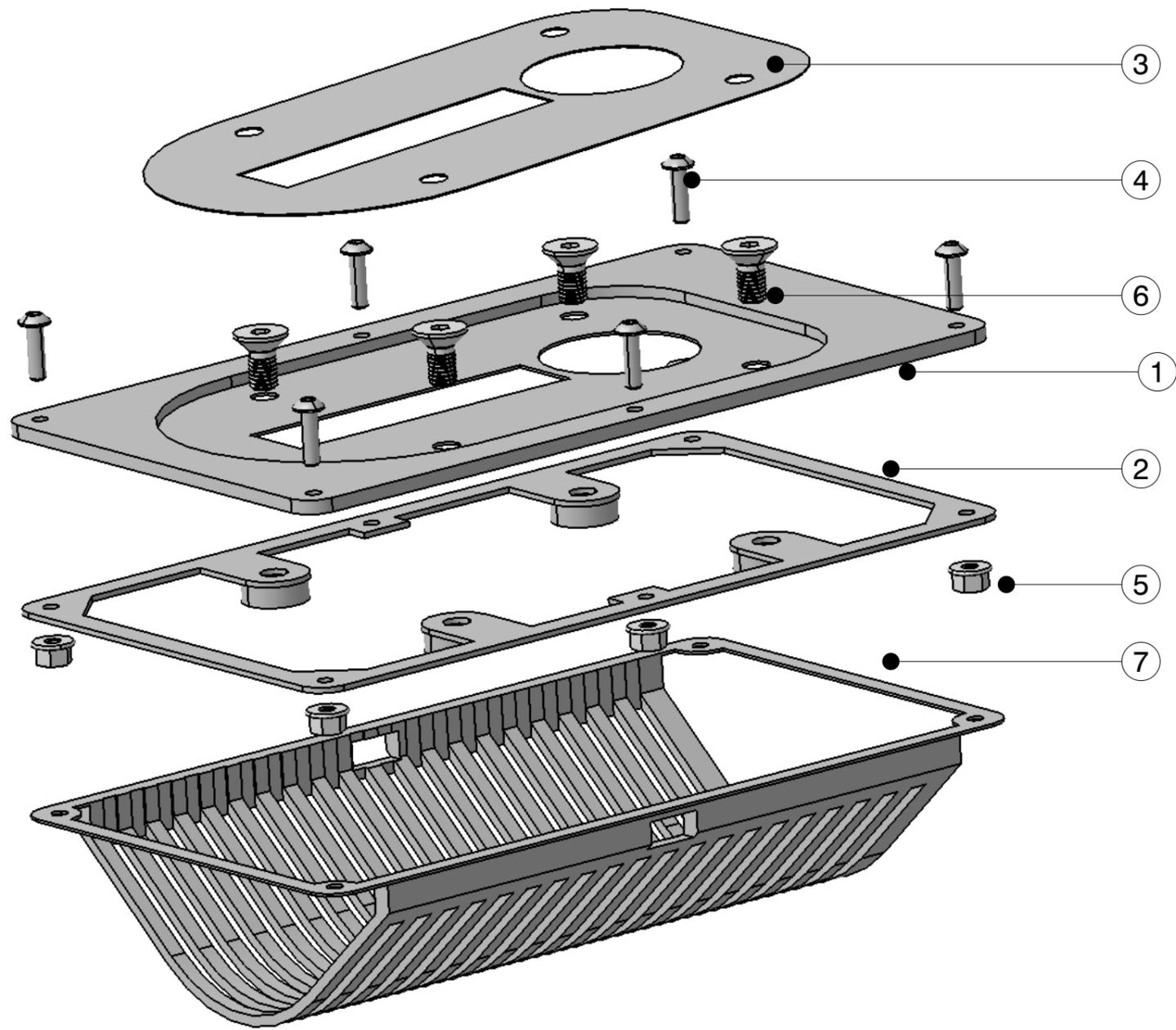
3

2

2

1

1



*refer sheet 4 for assembly instructions

DESIGNED BY: Hissan	Assembly Exploded View			
DATE: 14/12/2022	PITOT TUBE PROBE MOUNT			
	P I			
WEIGHT (lb) 0.4	DRAWING NUMBER 20002	SCALE 1:1	SIZE A3	SHEET 2/4
This drawing is our property; it can't be reproduced or communicated without our written agreement.				

H G B A