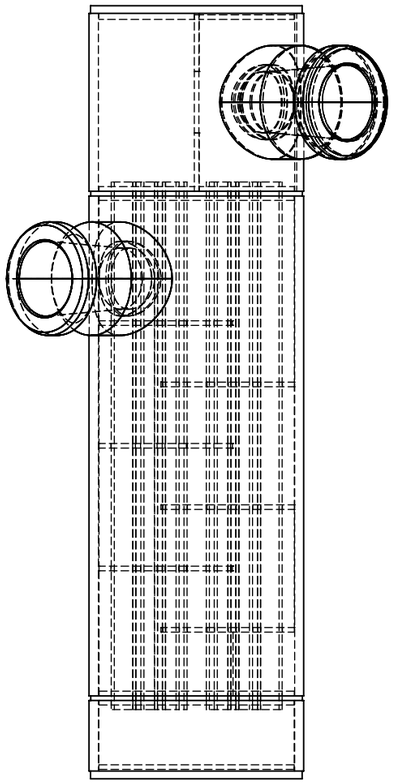

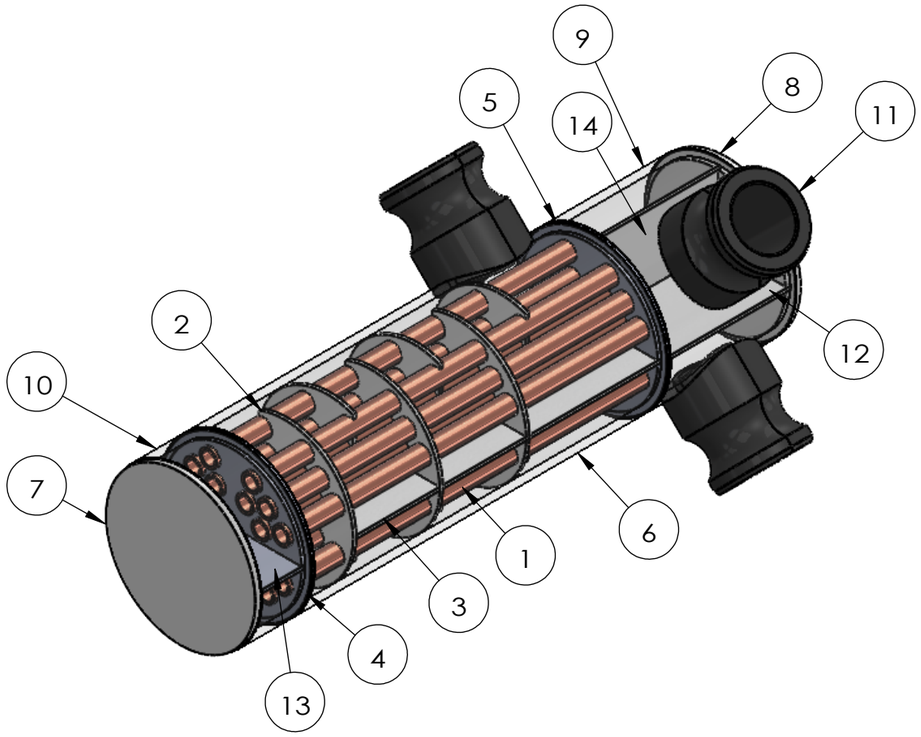

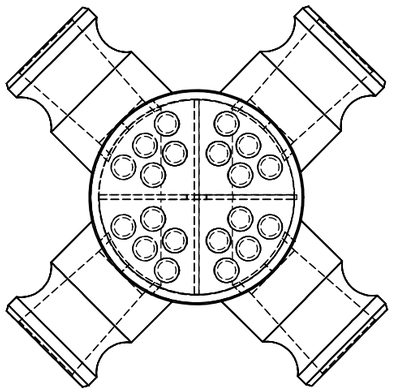

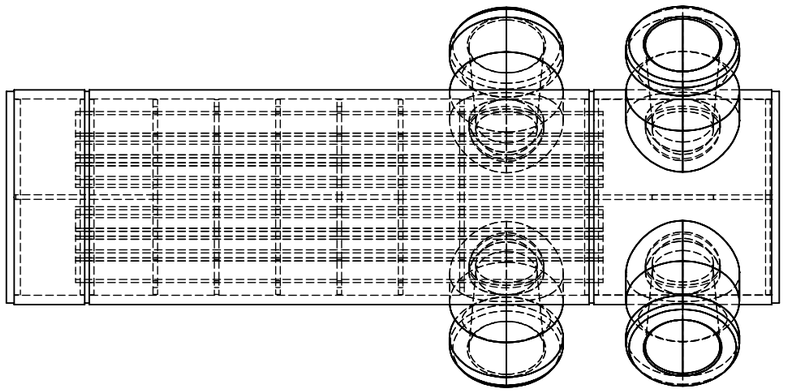

ITEM NO.	PART NUMBER	QTY.
1	tube	20
2	baffle	6
3	cold separator	1
4	tube end plate nozzle side	1
5	tube end plate non-nozzle side	1
6	shell	1
7	end plate non-nozzle side	1
8	end plate nozzle side	1
9	header nozzle side	1
10	header non-nozzle side	1
11	nozzle	4
12	hot separator nozzle side 1	1
13	hot separator non-nozzle side	1
14	hot separator nozzle side 2	1

Scale = 0.5

Ewan Gribbin

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DO NOT SCALE DRAWING	REVISION
GROUP: / DATE:	TITLE:	
F / 24/05/2022	Heat Exchanger Assembly	
MATERIAL: N/A	PART NO. N/A	A3
WEIGHT:	SCALE:1:5	SHEET 1 OF 1

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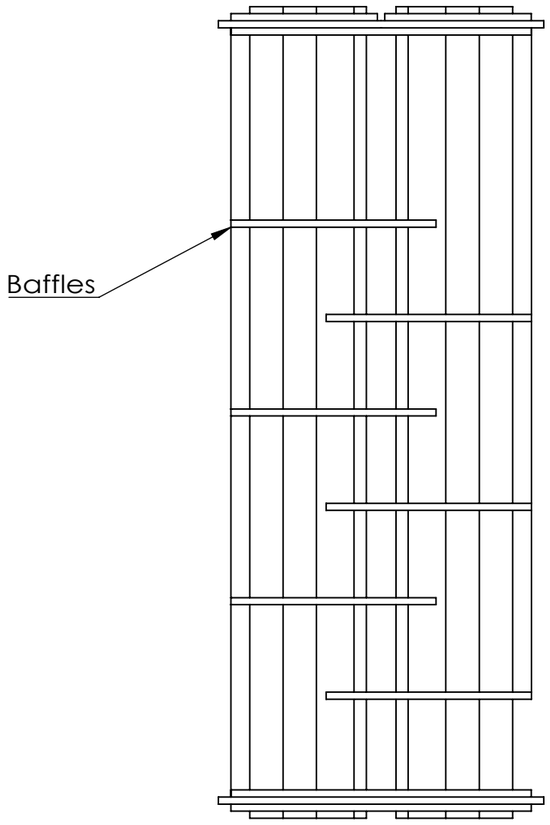

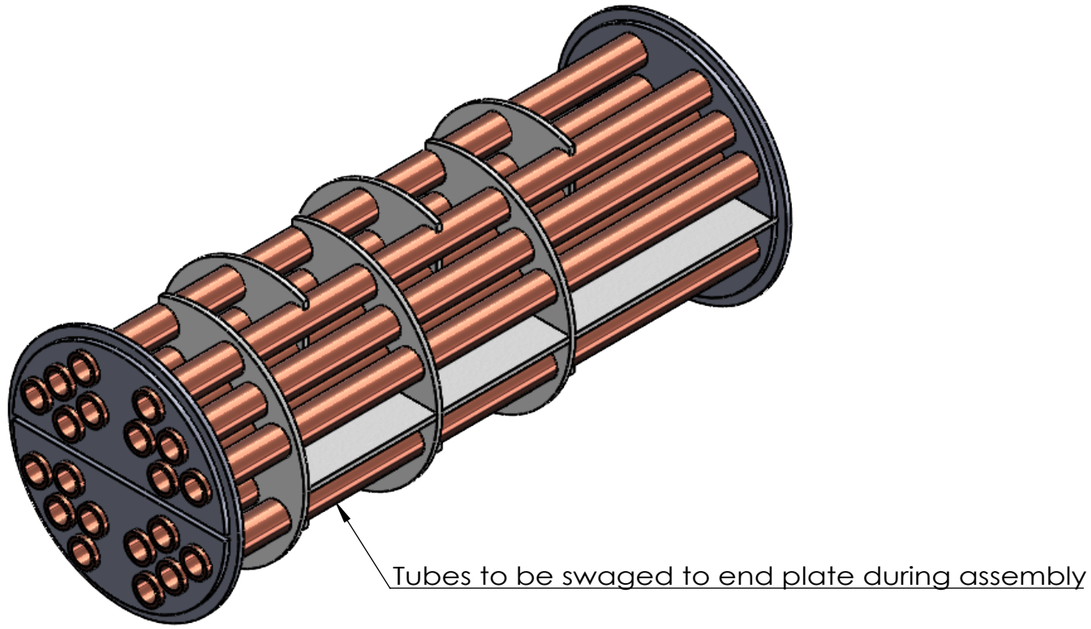

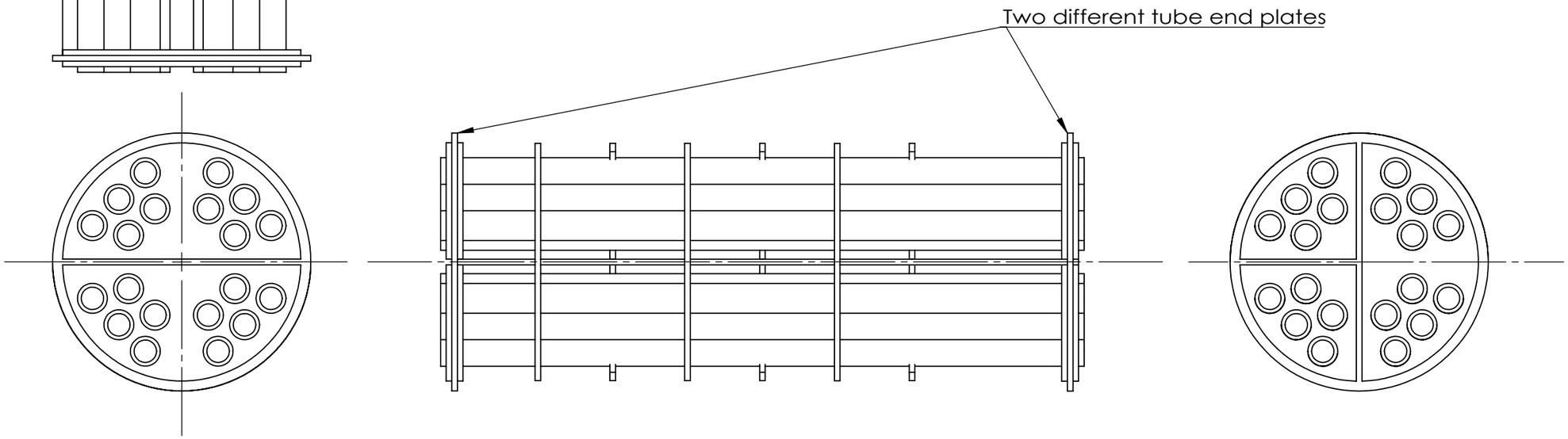

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP:	DATE:	TITLE:	
F	24/05/2022	tube bundle sub-assembly	
MATERIAL: N/A		PART NO. N/A	A3
WEIGHT:		SCALE:1:2	SHEET 1 OF 1

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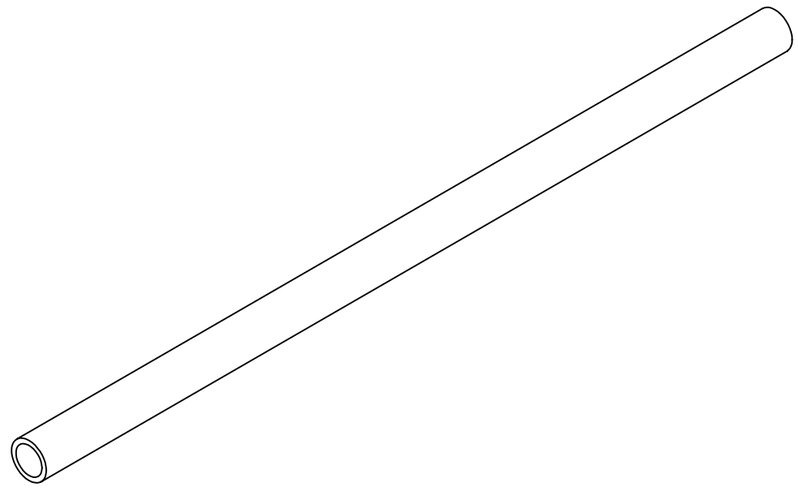

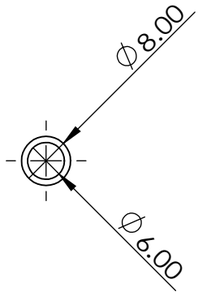

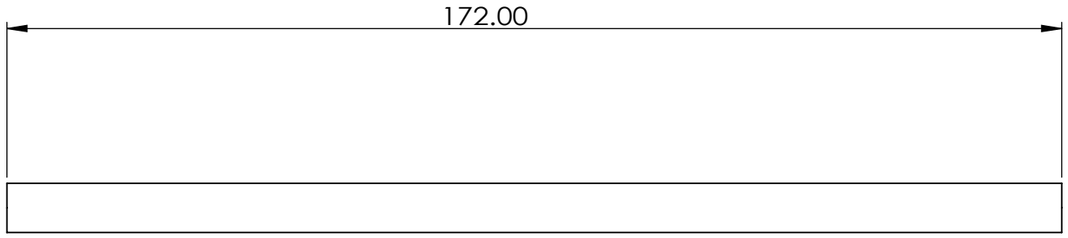

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP:	DATE:	TITLE:	
F	24/05/2022	tube	
MATERIAL:		PART NO.	A3
Copper		01	
WEIGHT:		SCALE:1:1	SHEET 1 OF 1

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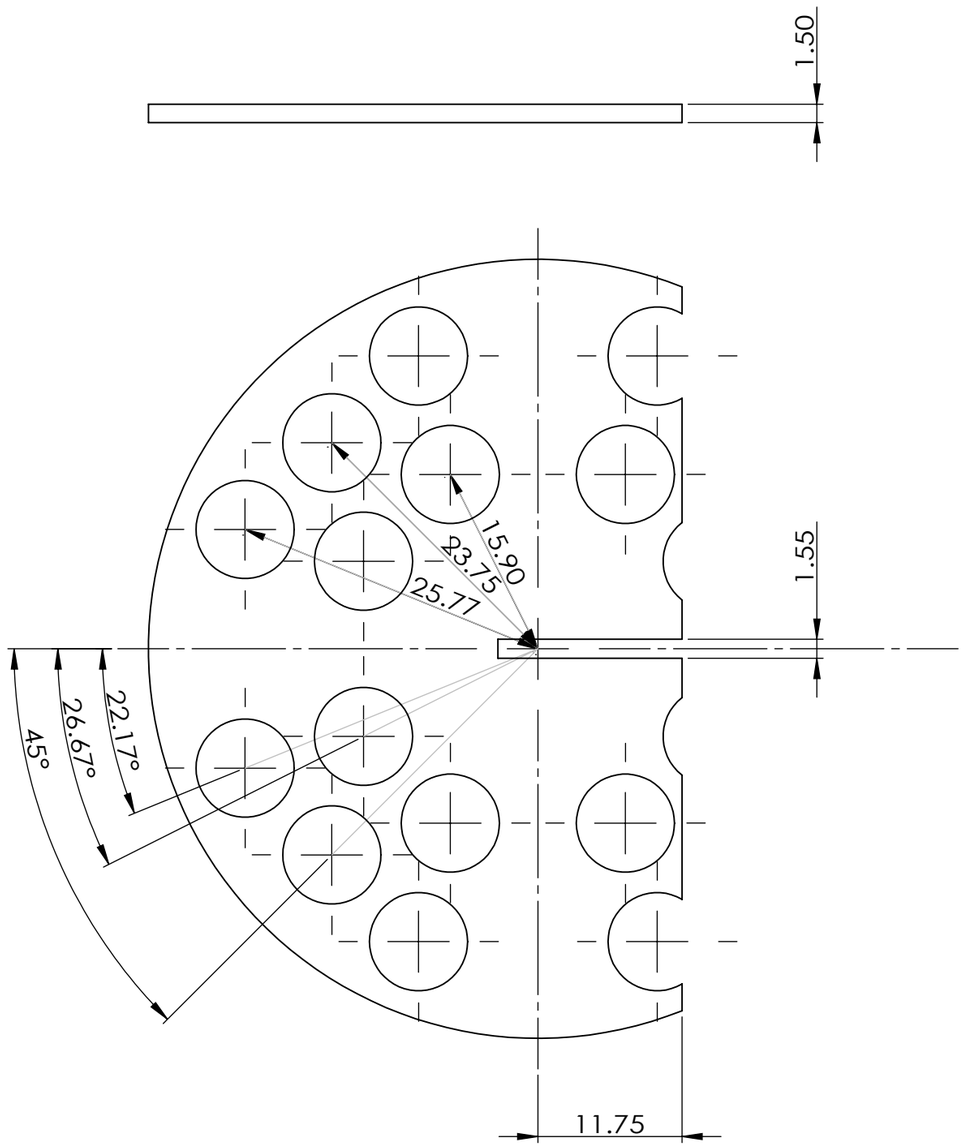

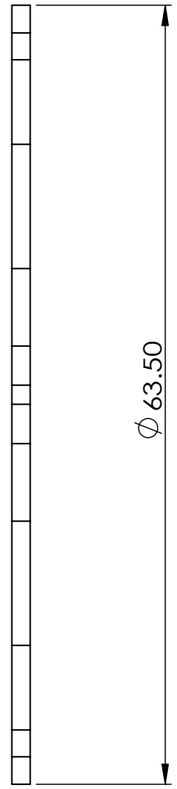

NOTES:
1. The holes have 45 degrees symmetry
2. All holes within a 90 degrees sector form a triangular pattern and are 10mm apart

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: baffle	
MATERIAL: 1.5mm plastic sheet		PART NO. 02	A3
WEIGHT:		SCALE:2:1	SHEET 1 OF 1

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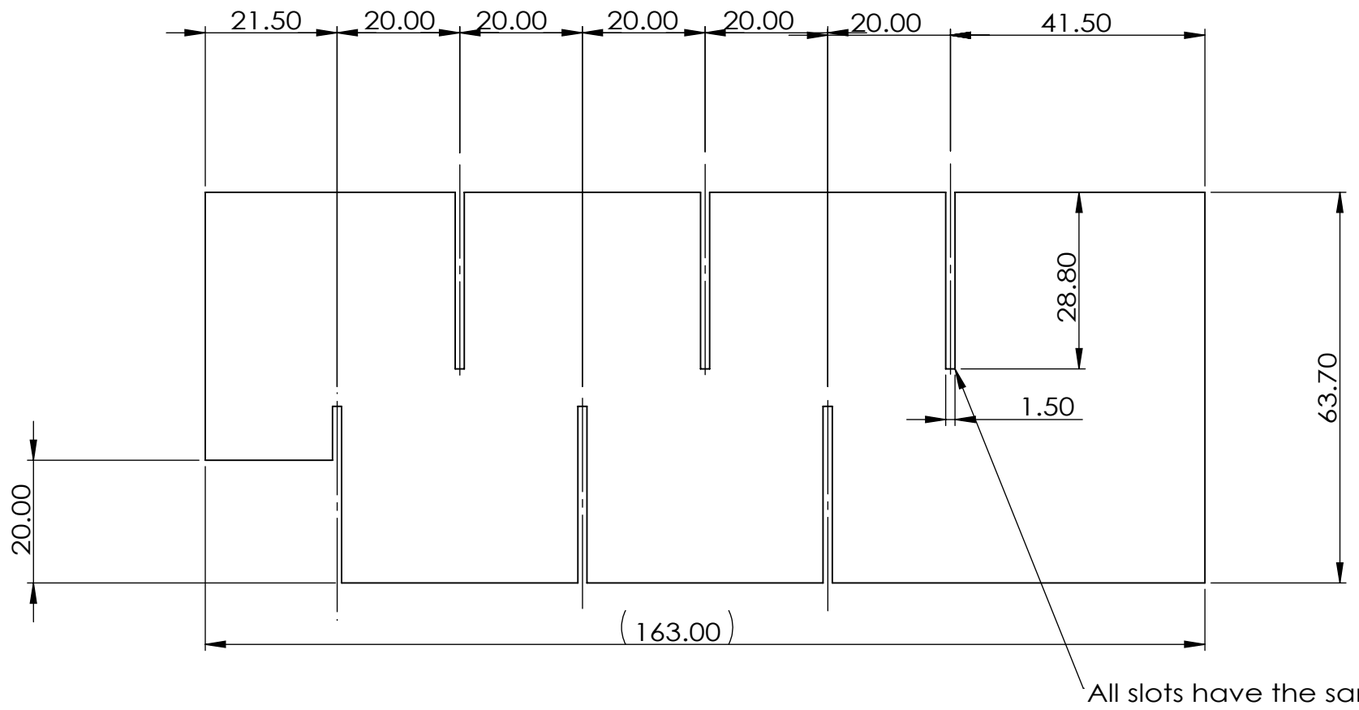

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: cold separator
MATERIAL: 1.5mm plastic sheet	PART NO. 03	A3
WEIGHT:	SCALE:1:1	SHEET 1 OF 1

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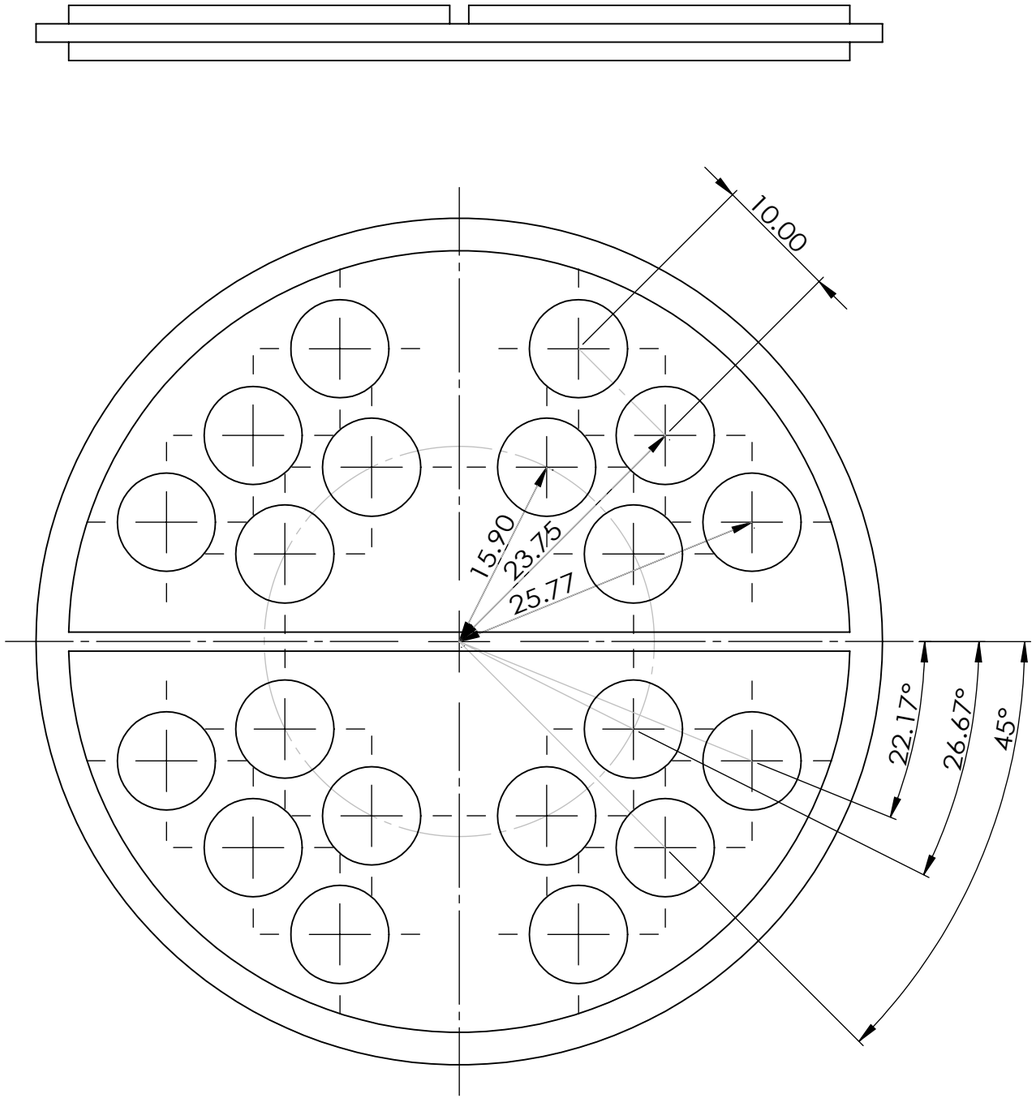

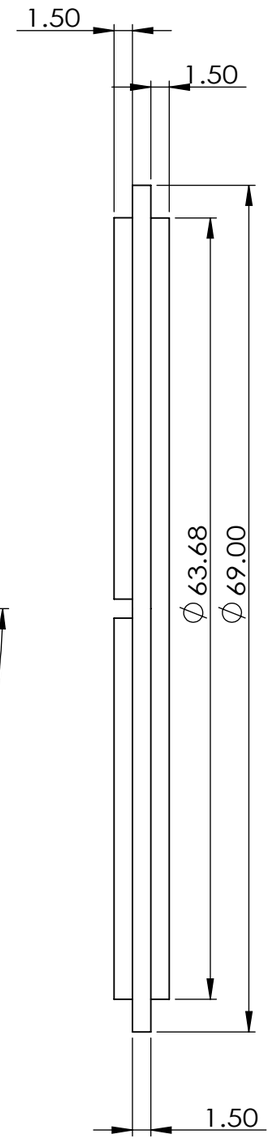

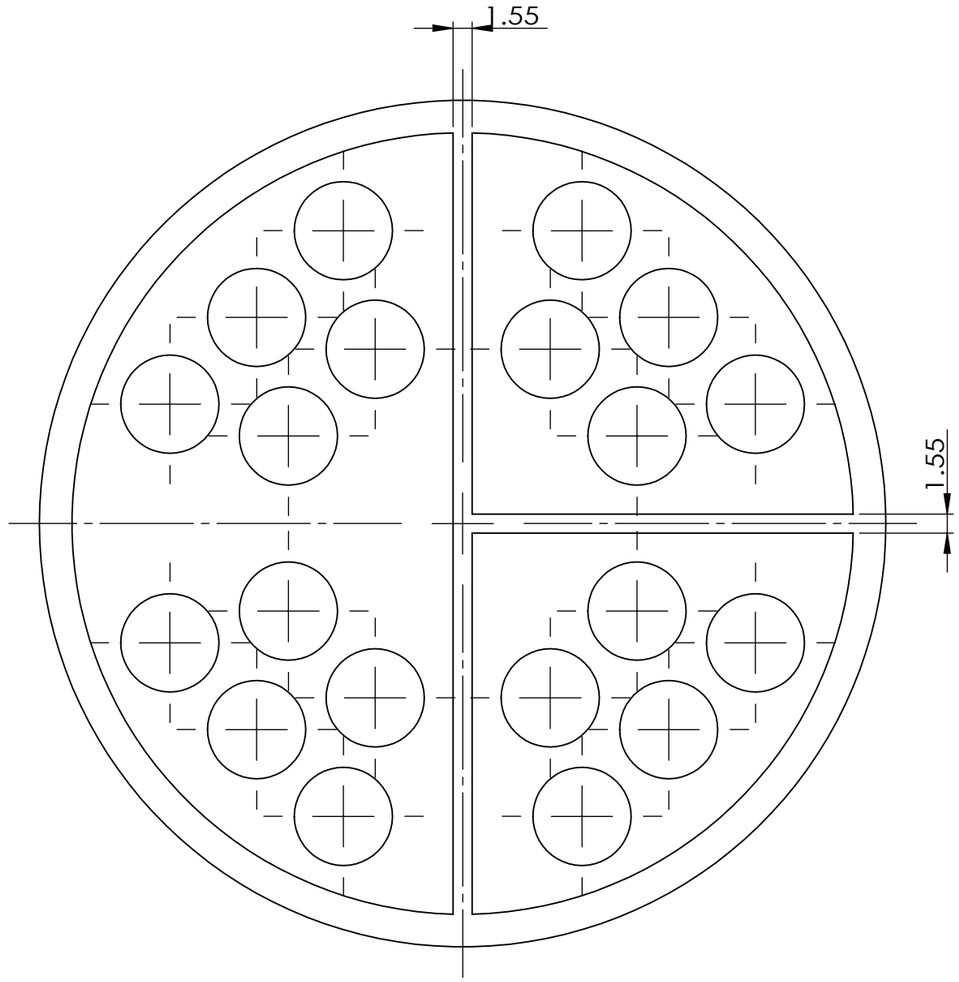

NOTES:
1. The holes have 45 degrees symmetry
2. All holes within a 90 degrees sector form a triangular pattern and are 10mm apart

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: tube end plate nozzle side
MATERIAL: 4.5mm plastic sheet	PART NO. 04	A3
WEIGHT:	SCALE:2:1	SHEET 1 OF 1

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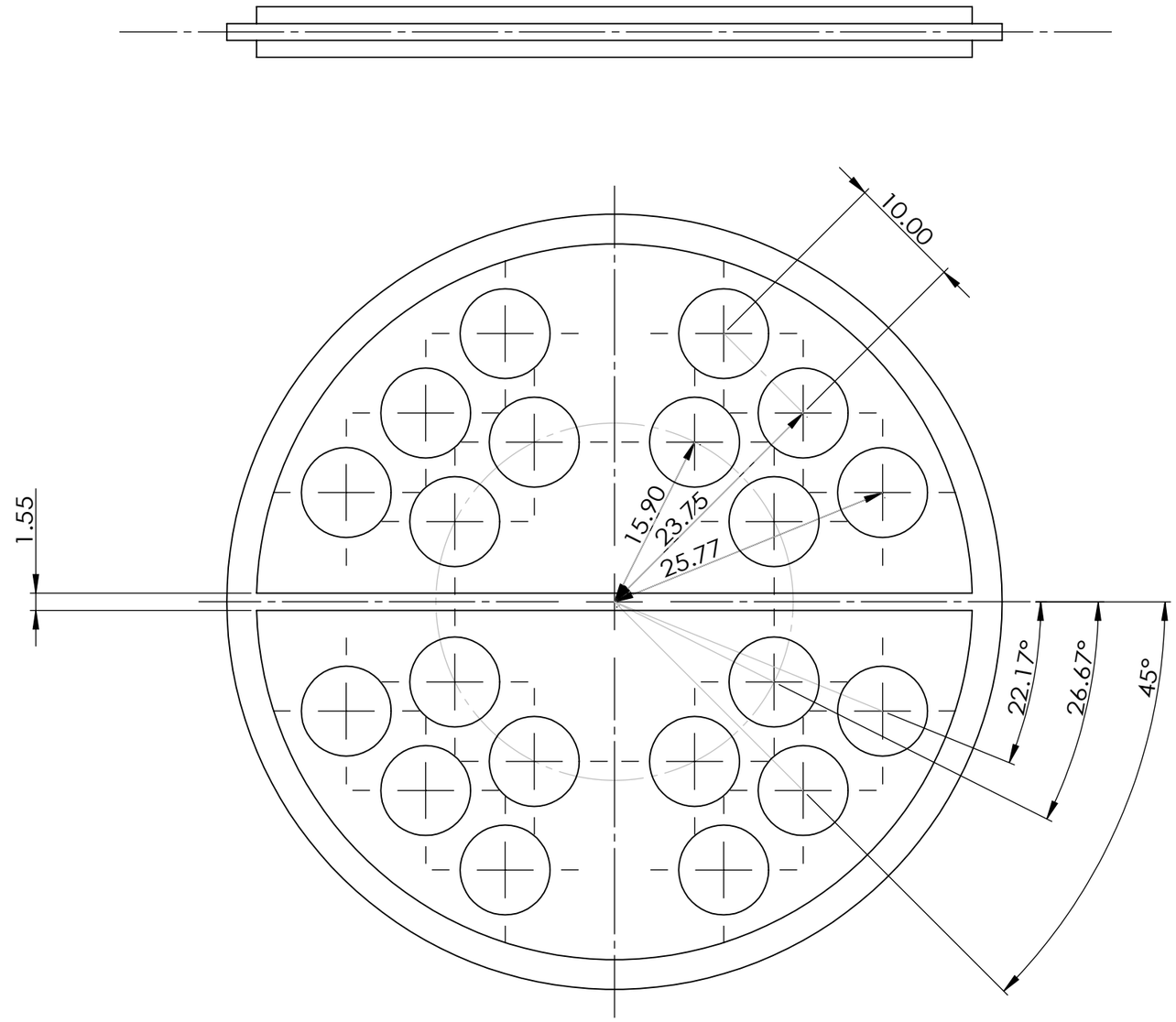

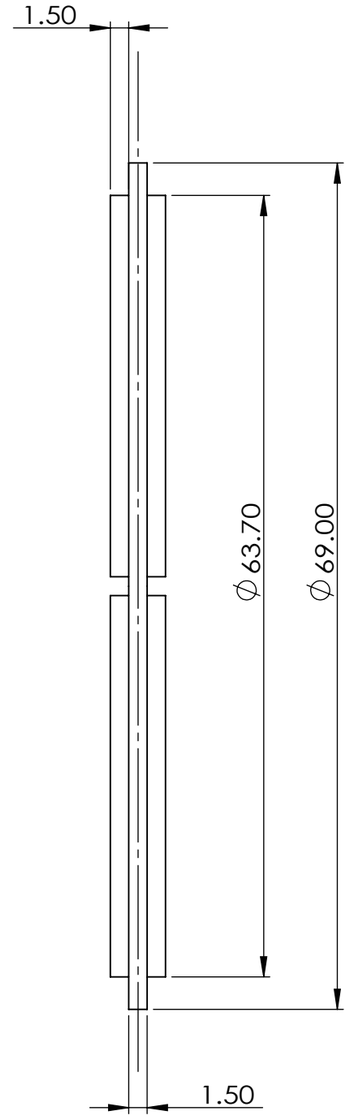

NOTES:
1. The holes have 45 degrees symmetry
2. All holes within a 90 degrees sector form a triangular pattern and are 10mm apart

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: tube end plate non-nozzle side
MATERIAL: 4.5mm plastic sheet	PART NO. 05	A3
WEIGHT:	SCALE:2:1	SHEET 1 OF 1

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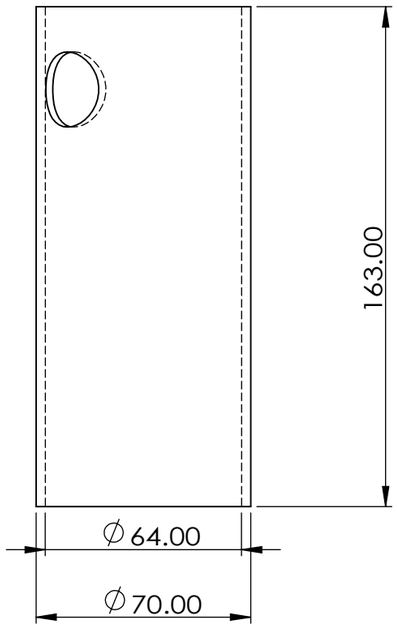

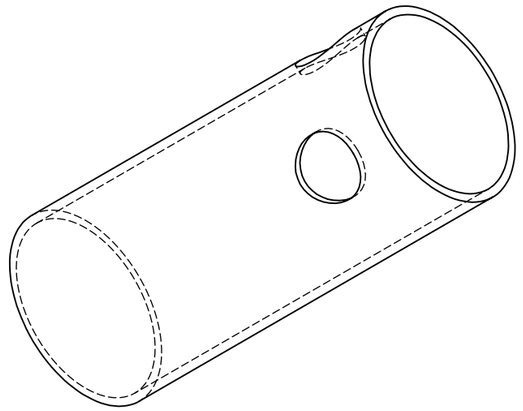

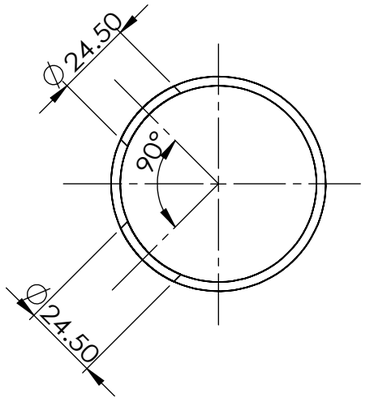

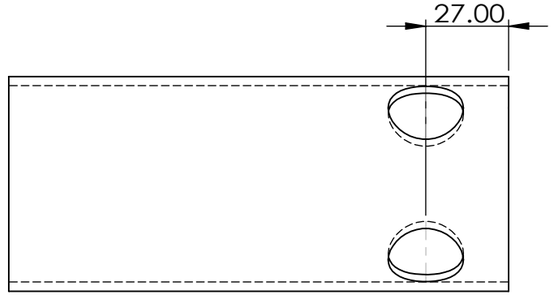

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP:	DATE:	TITLE:	
F	24/05/2022	shell	
MATERIAL: Acrylic pipe		PART NO. 06	A3
WEIGHT:		SCALE:1:2	SHEET 1 OF 1

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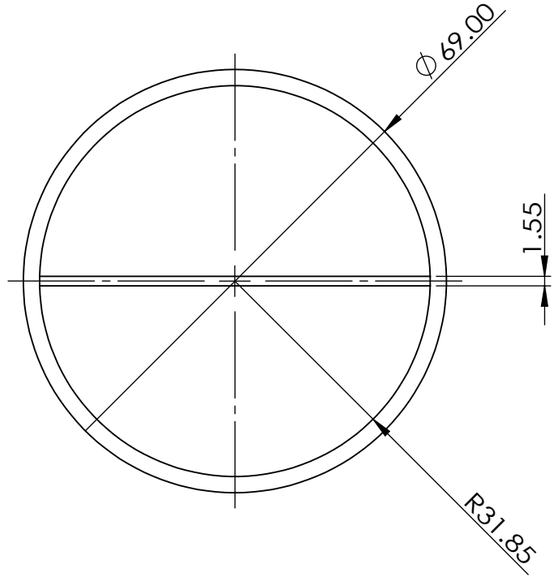

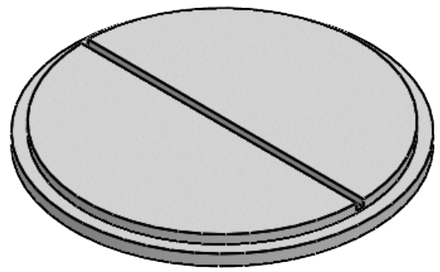

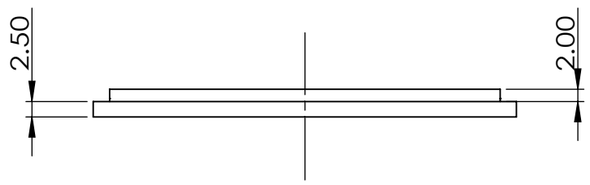

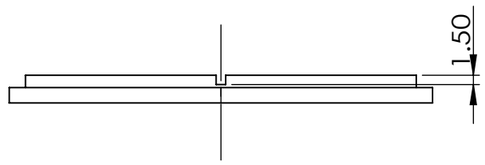

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP:	DATE:	TITLE:	
F	24/05/2022	end plate non-nozzle side	
MATERIAL: 4.5mm plastic sheet		PART NO. 07	A3
WEIGHT:		SCALE:1:1	SHEET 1 OF 1

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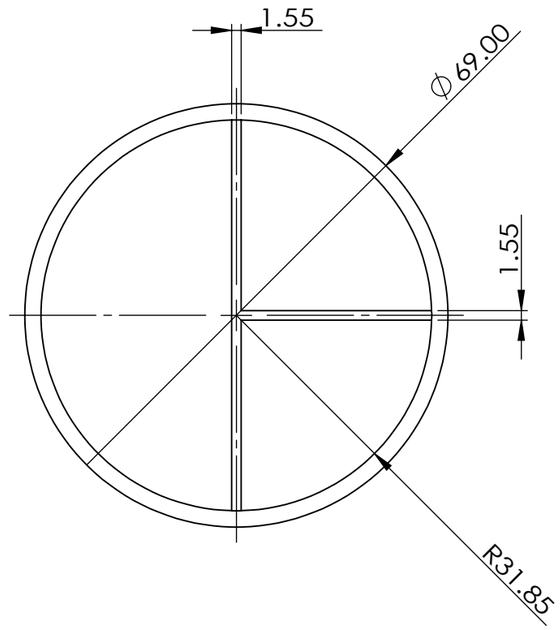

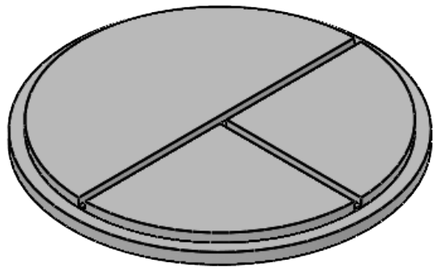

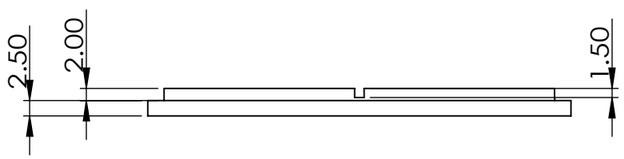

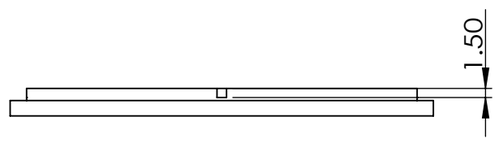

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: end plate nozzle side	
MATERIAL: 4.5mm plastic sheet		PART NO. 08	A3
WEIGHT:		SCALE:1:1	SHEET 1 OF 1

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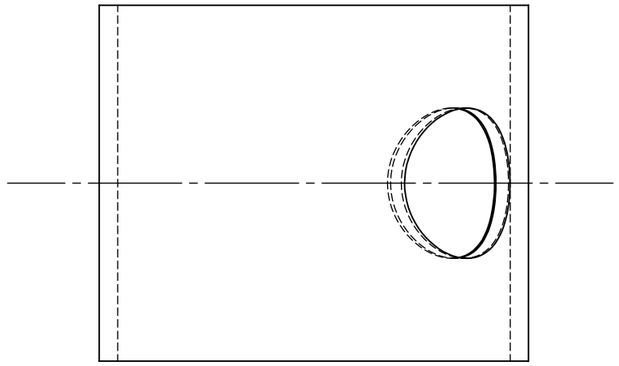

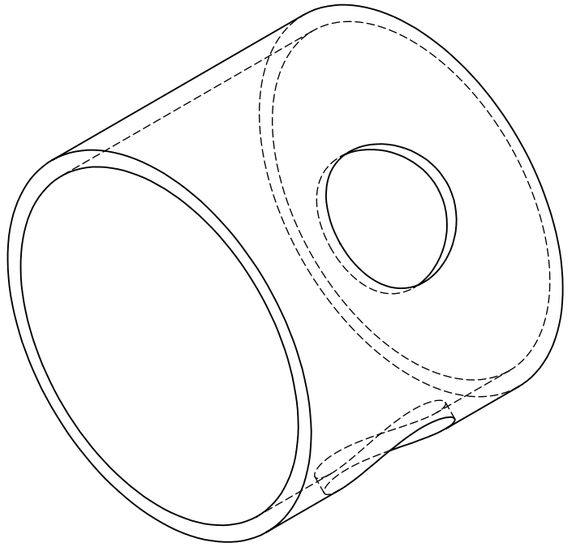

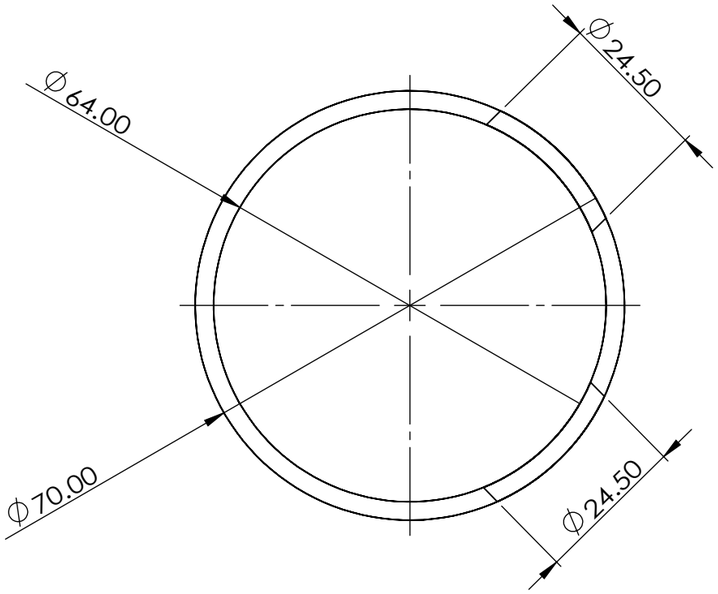

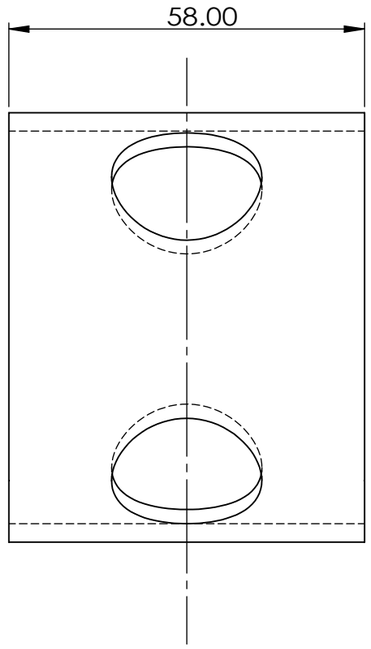

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: header nozzle side	
MATERIAL: Acrylic pipe		PART NO. 09	A3
WEIGHT:		SCALE:1:1	SHEET 1 OF 1

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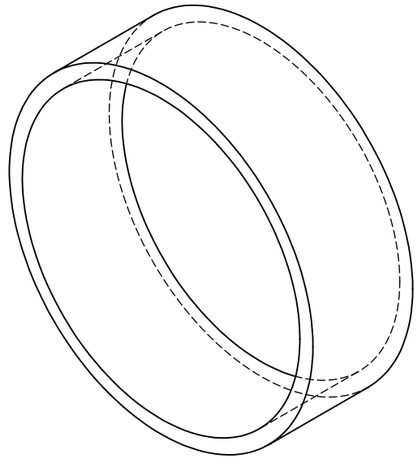

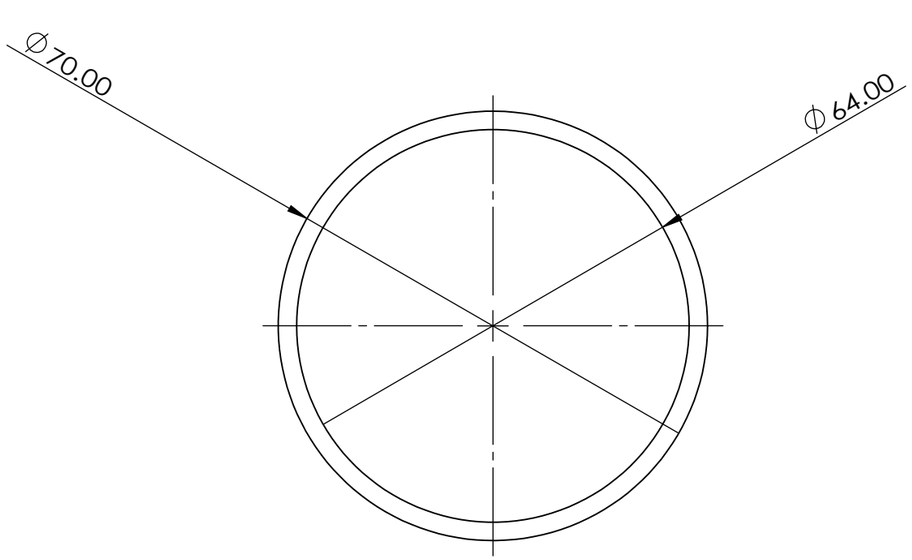

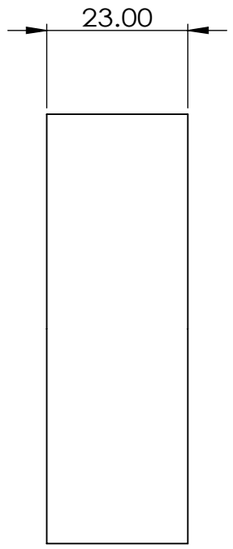

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: header non-nozzle side	
MATERIAL: Acrylic pipe		PART NO. 10	A3
WEIGHT:		SCALE:1:1	SHEET 1 OF 1

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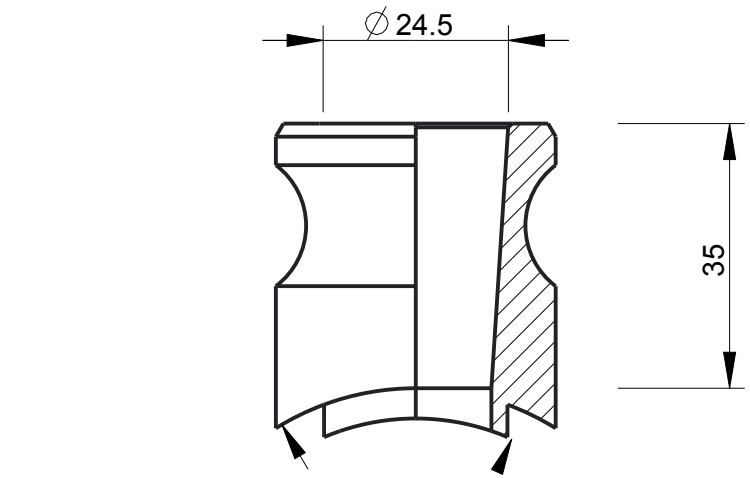
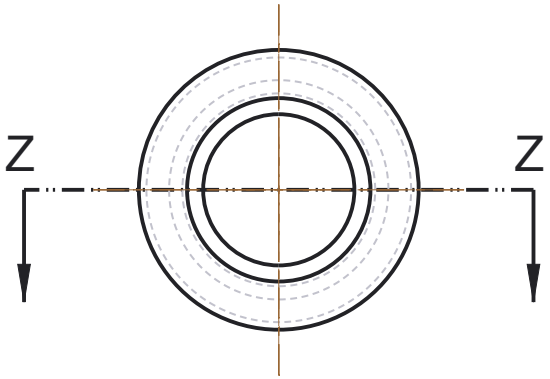
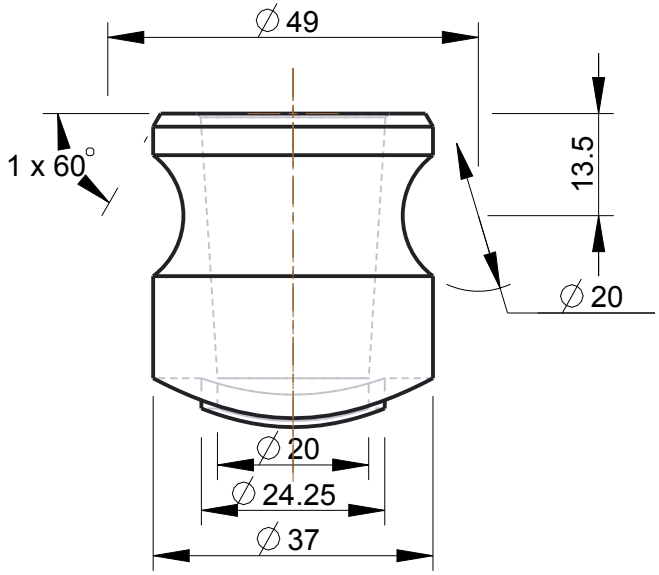
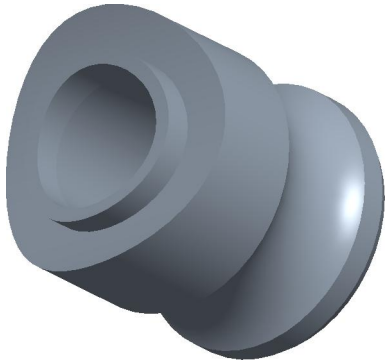


SECTION Z-Z







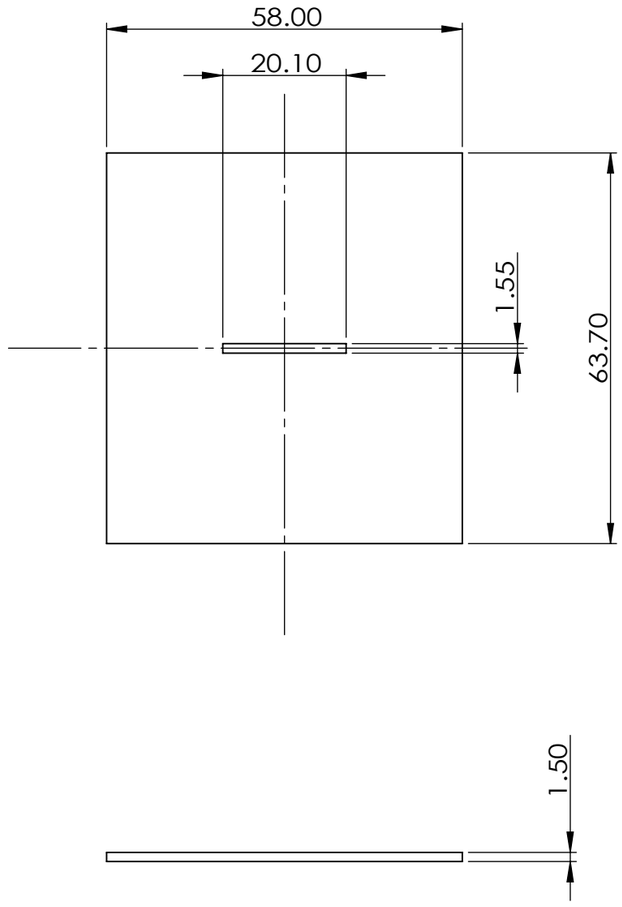
Tolerances	
Units	mm
Linear	0.1
Angular	0.5
Material	material_type
Drawn	A.N. Other
Tel.	(01223) 332600
e-mail	anoXX@eng.cam.ac.uk
Checked	

Cambridge University
Engineering Department

part_name

Filename	Sheet	# Sheets
DRW0001	1	1

Project	Format	Scale	Date
project_no	A4	1.000	23-Apr-18



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: hot separator nozzle side 1
MATERIAL: 1.5mm plastic sheet	PART NO. 12	A3
WEIGHT:	SCALE:2:1	SHEET 1 OF 1

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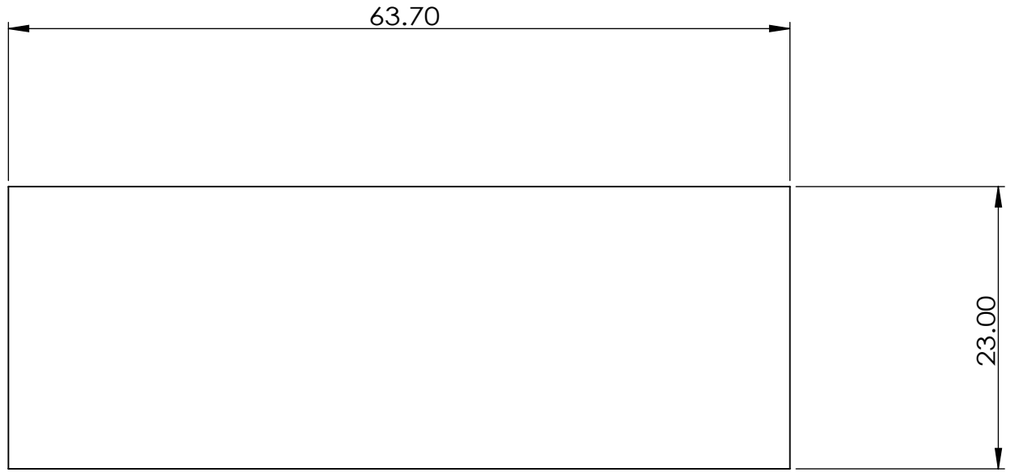

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		DO NOT SCALE DRAWING	REVISION
GROUP:	DATE:	TITLE:	
F	24/05/2022	hot separator non-nozzle side	
MATERIAL:		PART NO.	A3
1.5mm plastic sheet		13	
WEIGHT:		SCALE:2:1	SHEET 1 OF 1

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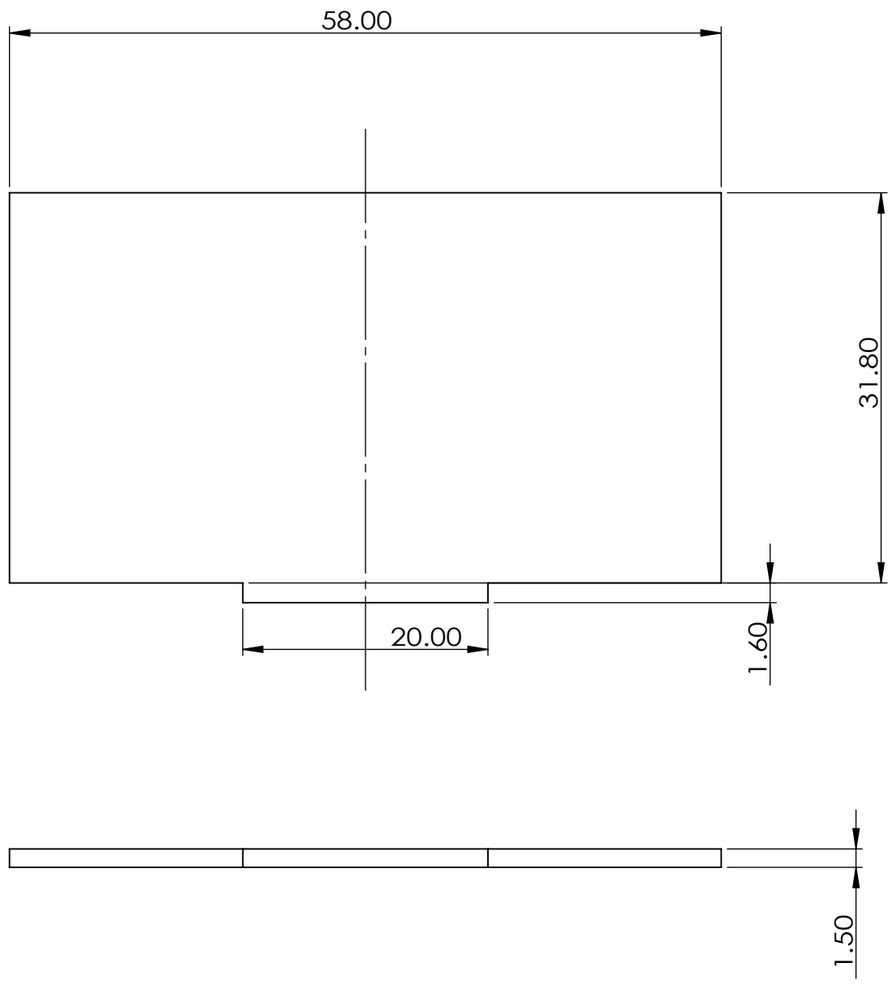

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS	DO NOT SCALE DRAWING	REVISION
GROUP: F	DATE: 24/05/2022	TITLE: hot separator nozzle side 2
MATERIAL: 1.5mm plastic sheet	PART NO. 14	A3
WEIGHT:	SCALE:2:1	SHEET 1 OF 1

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