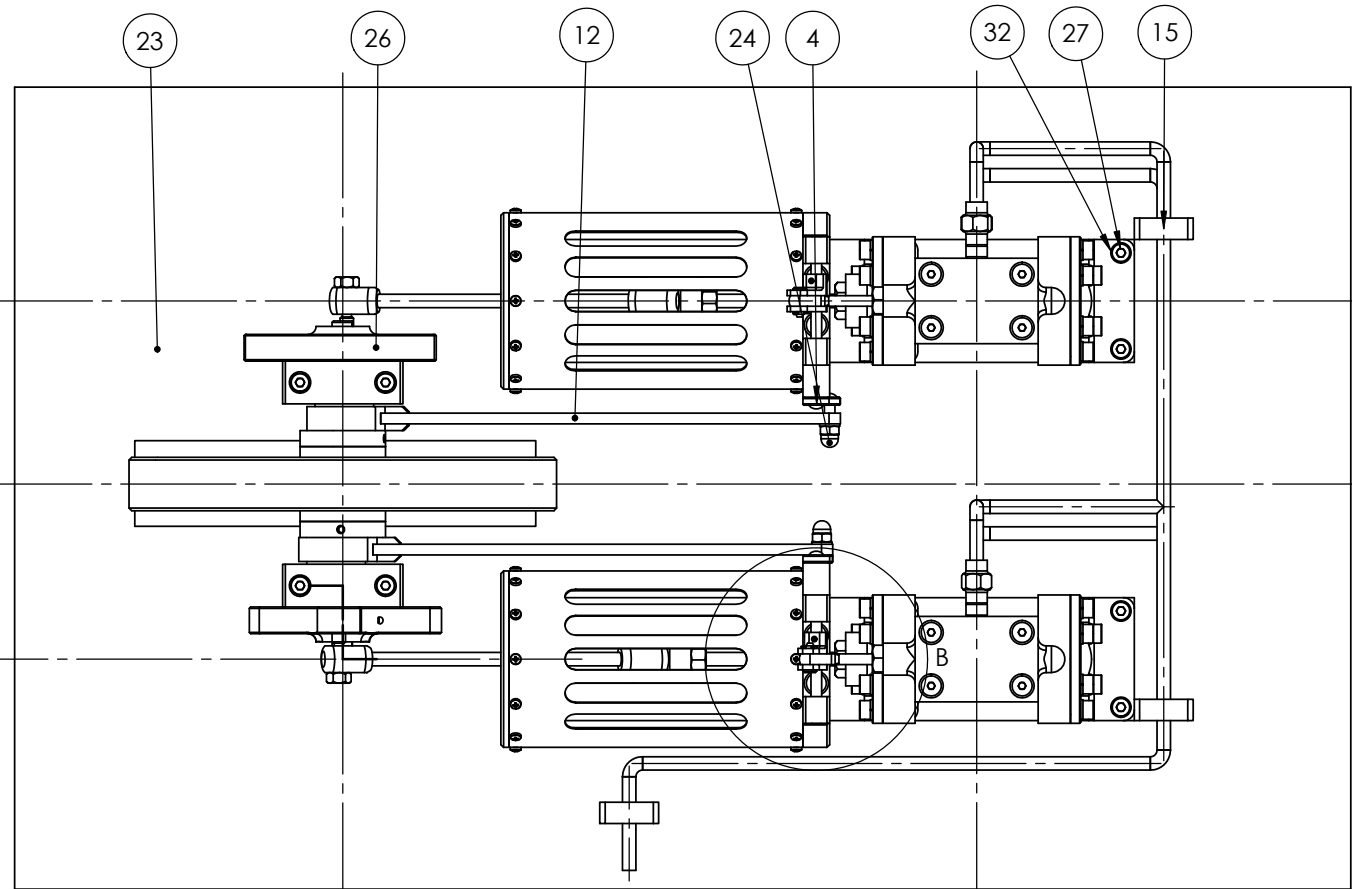
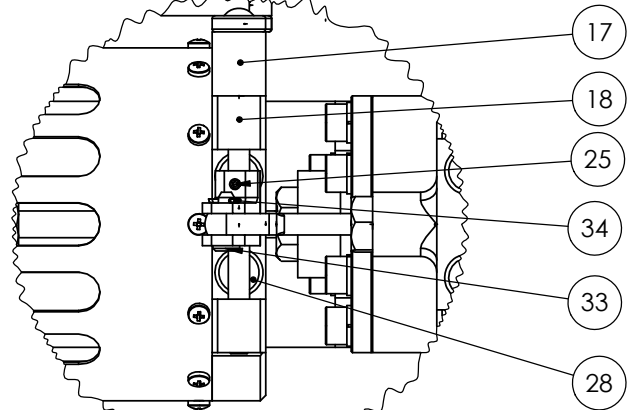


SECTION A-A



DETAIL B  
SCALE 1:1

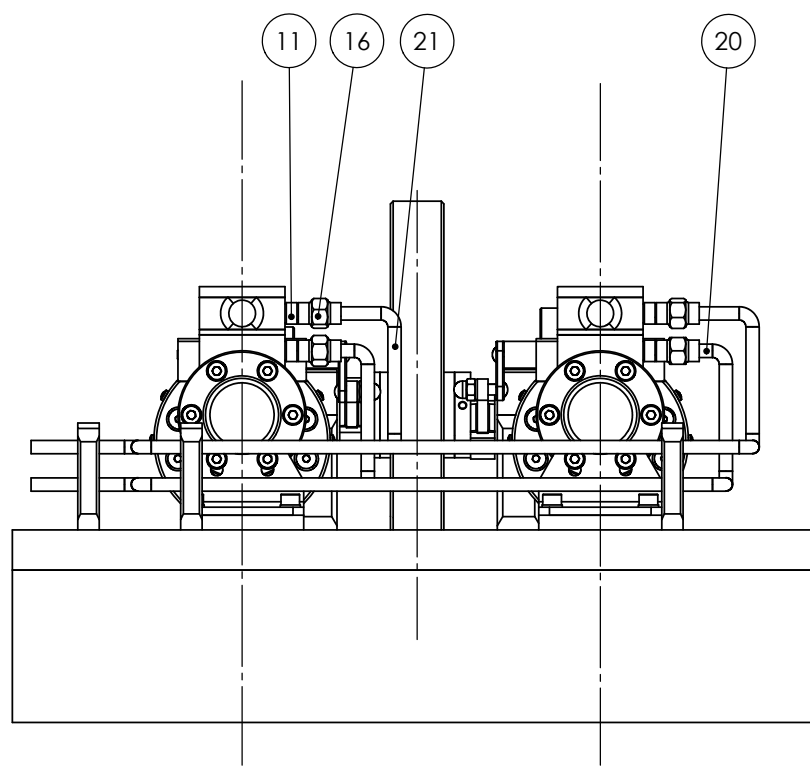


ITEM NO.	QTY.	PART NUMBER	Description	Material	Weight
1	2	14-11-23S001 - Connecting Rod		-	41.452 g
2	2	14-11-23S002 - Crosshead Container		-	344.527 g
3	2	14-11-23S003 - Main Bearing		-	262.421 g
4	2	14-11-23S004 - Rocker Shaft		-	12.137 g
5	2	14-11-23S005 - Cylinder		-	396.234 g
6	2	14-11-23P007 - Steam Chest Slide Valve		Aluminum Bronze	9.569 g
7	2	14-11-23P014 - Crank Screw		Alloy Steel	5.259 g
8	2	14-11-23P015 - Crank		Plain Carbon Steel	169.277 g
9	1	14-11-23P016 - Crankshaft		Stainless Steel AISI 304	84.496 g
10	2	14-11-23P018 - Crosshead		Brass	42.595 g
11	4	14-11-23P020 - Cylinder Piping Connector M6x0,5		Brass	3.027 g
12	2	14-11-23P021 - Eccentric Trap		Alloy Steel	67.166 g
13	2	14-11-23P022 - Eccentric		Brass	57.527 g
14	1	14-11-23P023 - Flywheel		Stainless Steel AISI 304	1490.103 g
15	3	14-11-23P025 - PipeRack		Alloy Steel	39.909 g
16	4	14-11-23P026 - Piping Connector M6x0,5 Female		Brass	6.021 g
17	2	14-11-23P027 - Rocker Bearing Stud		Brass	9.374 g
18	2	14-11-23P028 - Rocker Bearing		Brass	30.113 g
19	2	14-11-23P030 - Slide Valve Rod		Stainless Steel AISI 304	9.513 g
20	1	14-11-23P031 - SteamPipe Entry		Copper	44.863 g
21	1	14-11-23P032 - SteamPipe Exit		Copper	46.751 g
22	2	14-11-23P033 - Valve Fork		Brass	9.520 g
23	1	14-11-23P034 - Platform		Brick	8139.266 g
24	2	DIN 1587 - M4 --NNU	Hex Domed Cap Nut		
25	2	DIN 913 - M2 x 3-N	Hex Socket Set Screw		
26	2	DIN 915 - M3 x 10-N	Hex Socket Set Screw		
27	8	ISO 4762 M4 x 16 - 16C	Hex Socket Head Cap Screw		
28	4	ISO 10642 - M4 x 10 - 10C	Hex Socket Countersunk Head Screw		
29	8	ISO 7045 - M3 x 30 - Z - 30N	Pan Head Cross Recess Screw		
30	10	ISO 7045 - M5 x 25 - Z - 25N	Pan Head Cross Recess Screw		
31	2	ISO - 4034 - M5 - N	Hex Nut		
32	10	Spring washer DIN 128 - A4	Spring Washer		
33	2	ISO 2341 - B - 3 x 10 x .8 - St	Celvis Pin		
34	2	DIN 94-0.8x6-C-St	Split Pin		
35	2	ISO 8734 - 4 x 26 - A - St	Parallel Pin		

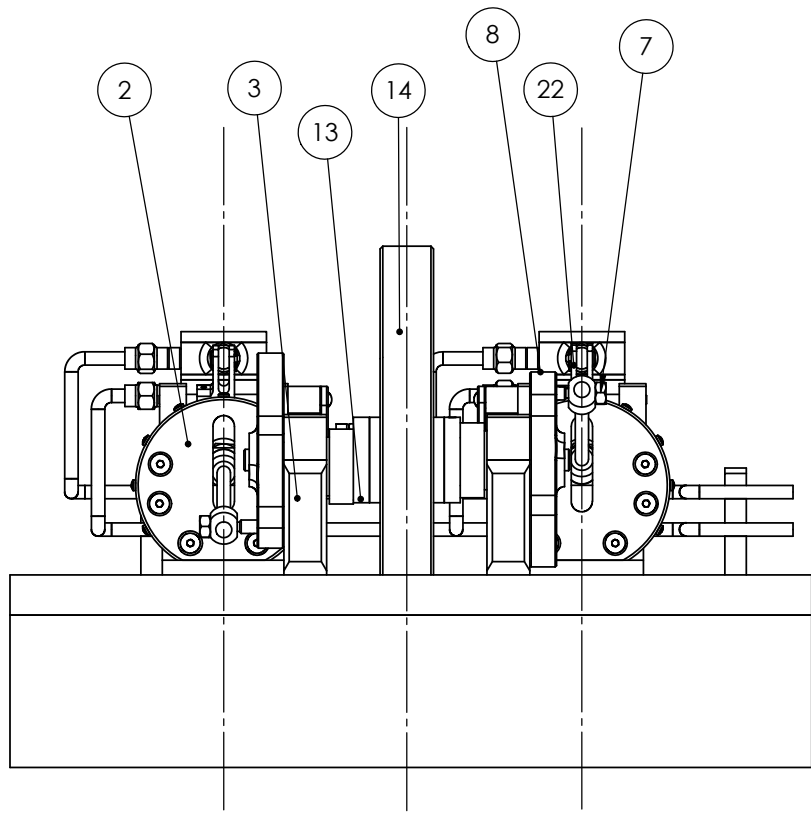
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f	#0.05	#0.05	#0.1	#0.15	#0.2	#0.3	#0.5	#0.7	#1.0	#1.5	#2.0	#3.0	#5.0	#7.0	#10.0
m	#0.1	#0.1	#0.2	#0.3	#0.5	#0.8	#1.2	#1.8	#2.5	#3.5	#5.0	#7.0	#10.0	#15.0	#20.0
C	#0.2	#0.3	#0.5	#0.8	#1.2	#1.8	#2.5	#3.5	#5.0	#7.0	#10.0	#15.0	#20.0	#30.0	#40.0
V	#0.5	#1.0	#1.5	#2.0	#3.0	#4.0	#6.0	#8.0	#10.0	#15.0	#20.0	#30.0	#40.0	#60.0	#80.0

Roskilde  
Tekniske  
Skole

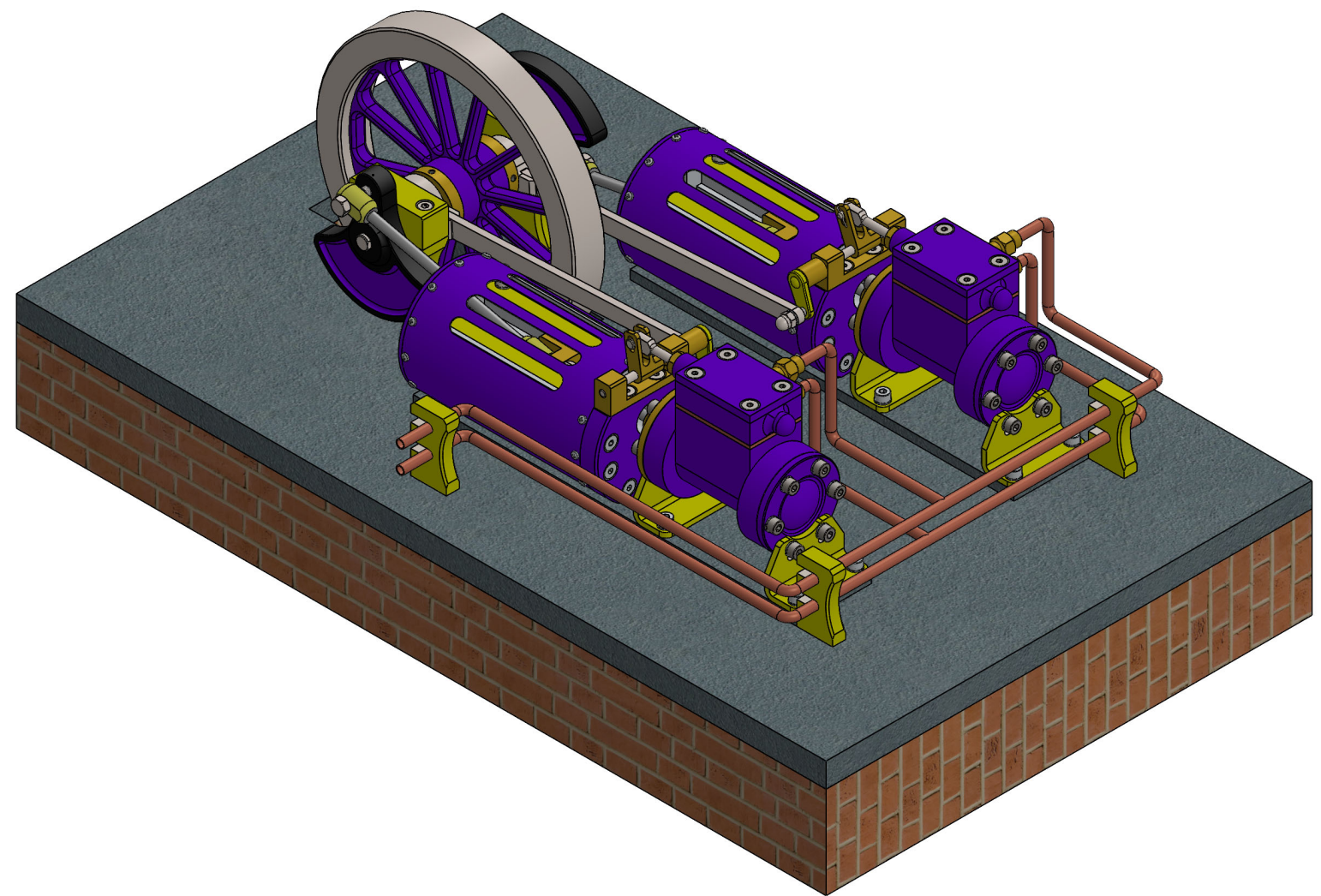
Weight: 12909.155 g	MATERIAL: -	Scale: 1:2
Creation Date: 15-01-2024	Drawing Name: 14-11-23A001 - Dual Horizontal Steam Engine	
Created By: Skye Hempel	Approved By: -	
Project Name: Dobbelt Dampmaskine	Format: A2	Revision: 1
		Sheet: 1 OF 2



Left



Right



All measurement without tolerances is according to DS/ISO 2768-m

	0.5	3	6	30	120	400	1000
	10	10	10	10	10	10	10
	3	6	30	120	400	1000	2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	±0.5	±1	±1.5	±2.5	±4	±6	±10

	Weight: 12909.155 g	MATERIAL: -	Scale: 1:2
Creation Date: 15-01-2024	Drawing Name: 14-11-23A001 - Dual Horizontal Steam Engine		
Created By: Skye Hempel	Approved By: -		
Project Name: Dobbelt Dampmaskine	Format: A2	Revision: 1	Sheet: 2 OF 2

Roskilde  
Tekniske  
Skole



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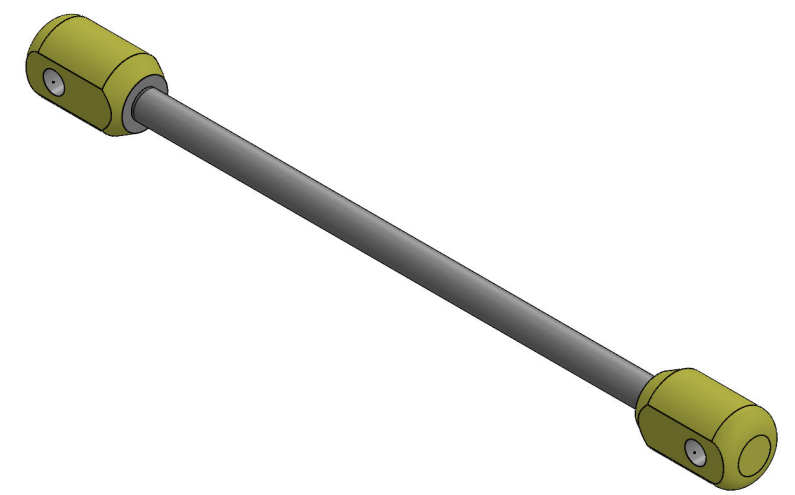
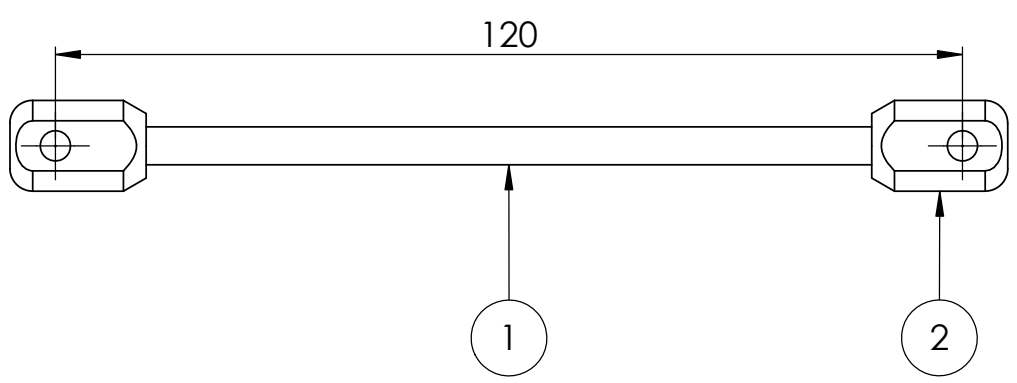
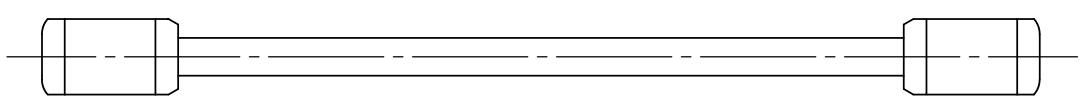
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ITEM NO.	QTY.	PART NUMBER	Material	Weight
1	1	14-11-23P011 - Connecting Rod	Stainless Steel AISI 304	17.249 g
2	2	14-11-23P012 - Connecting Rod Head	Stainless Steel AISI 304	12.101 g



All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

Weight: 41.452 g      MATERIAL: -      Scale: 1:1

Creation Date: 21-11-2023  
 Created By: Skye Hempel  
 Approved By: \_\_\_\_\_  
 Drawing Name: 14-11-23S001 - Connecting Rod



Project Name: Dobbelt Dampmaskine      Format: A3      Revision: 1      Sheet: 1 OF 1

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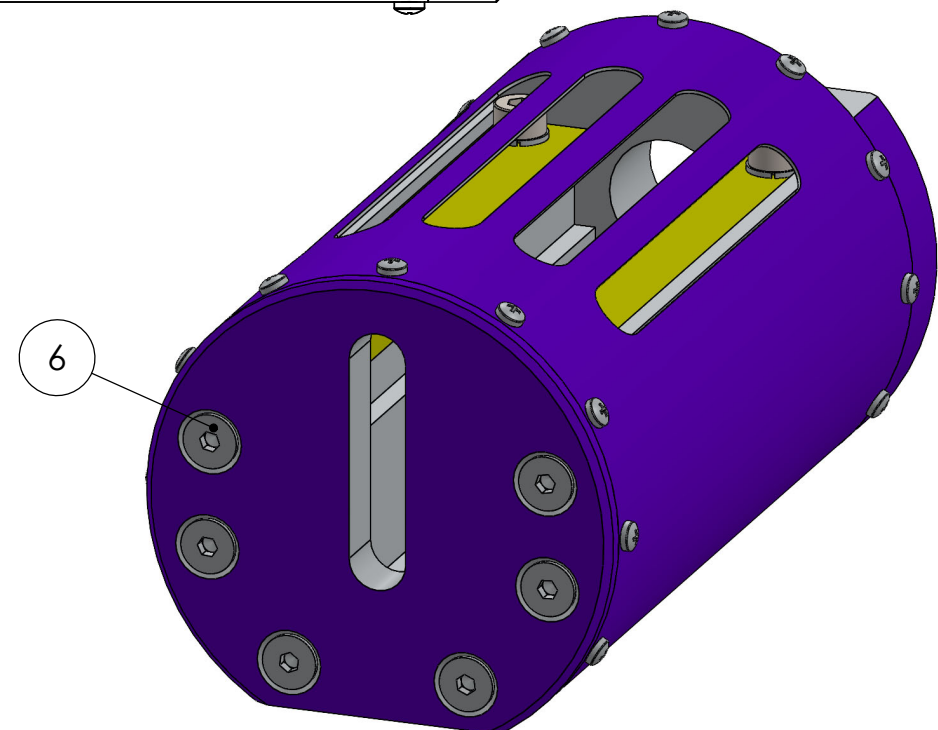
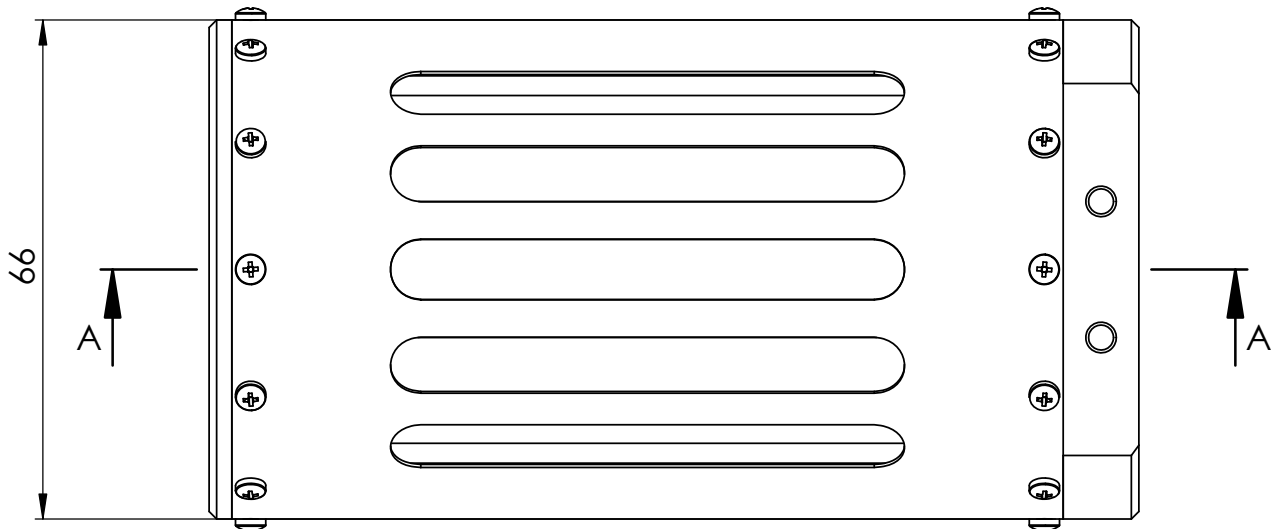
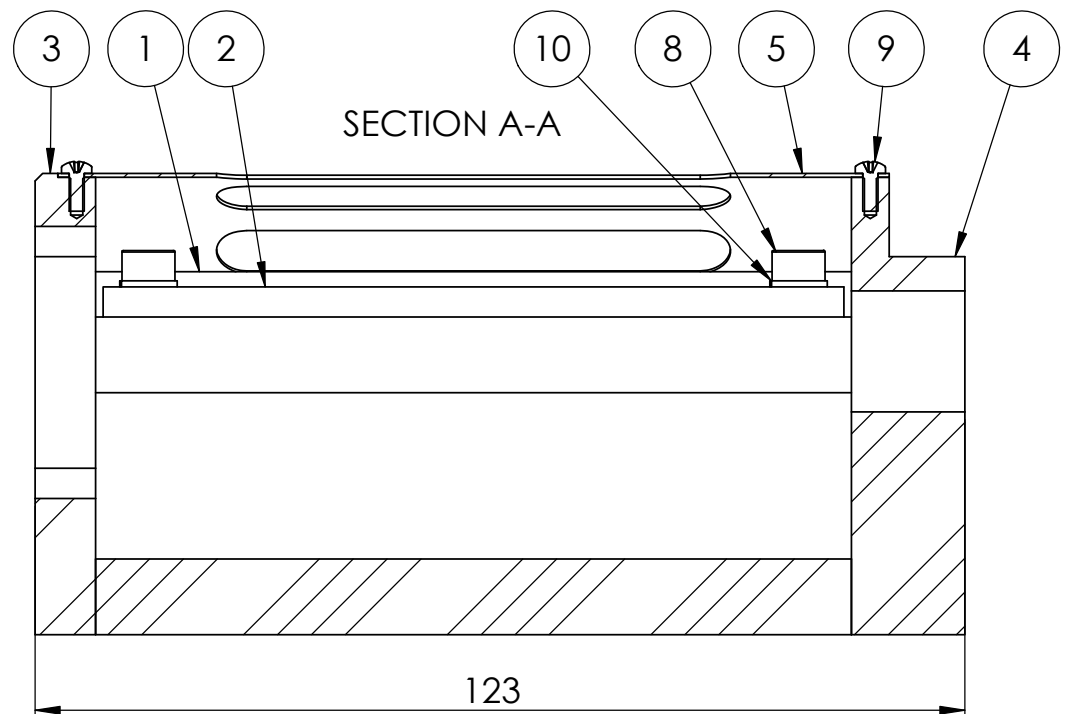
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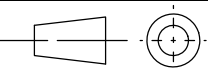
A



ITEM NO.	QTY.	PART NUMBER	Description	Material	Weight
1	1	14-11-23P017.1 - Crosshead Container		Aluminum-6061	181.085 g
2	2	14-11-23P017.2 - Crosshead Guide Plate		Stainless Steel AISI 304	42.879 g
3	1	14-11-23P017.3 - Crosshead Container Flange Crank		Aluminum-6061	23.026 g
4	1	14-11-23P017.4 - Crosshead Container Flage Cylinder		Aluminum-6061	41.147 g
5	1	14-11-23P017.5 - Crosshead Container Cover		Aluminum-6061	8.098 g
6	6	ISO 10642 - M4 x 16 - 16N	Hex Socket Countersunk Head Screw		
7	6	ISO 10642 - M4 x 25 - 25N	Hex Socket Countersunk Head Screw		
8	4	ISO 4762 M4 x 12 - 12N	Hex Socket Head Cap Screw		
9	18	ISO 7045 - M2 x 5 - Z - 5N	Pan Head Cross Recess Screw		
10	4	Spring washer DIN 128 - A4	Spring Washer		

All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

	Weight: 344.527 g	MATERIAL: -	Scale: 1:1
Creation Date: 11-01-2024	Drawing Name: 14-11-23S002 - Crosshead Container		
Created By: Skye Hempel	Approved By:		
Project Name: Dobbelt Dampmaskine		Format: A3	Revision: 1
		Sheet: 1 OF 1	

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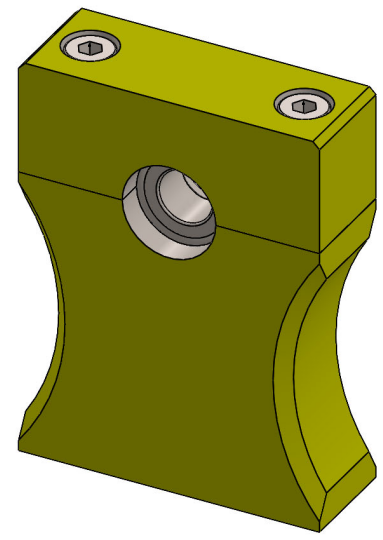
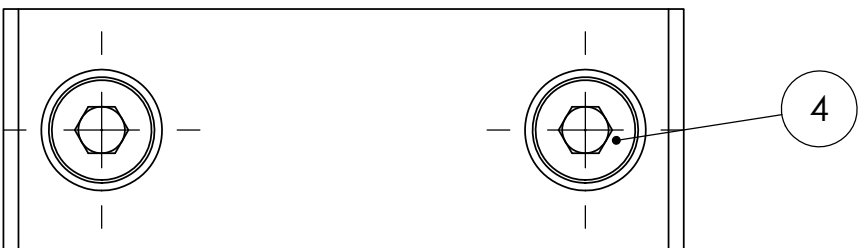
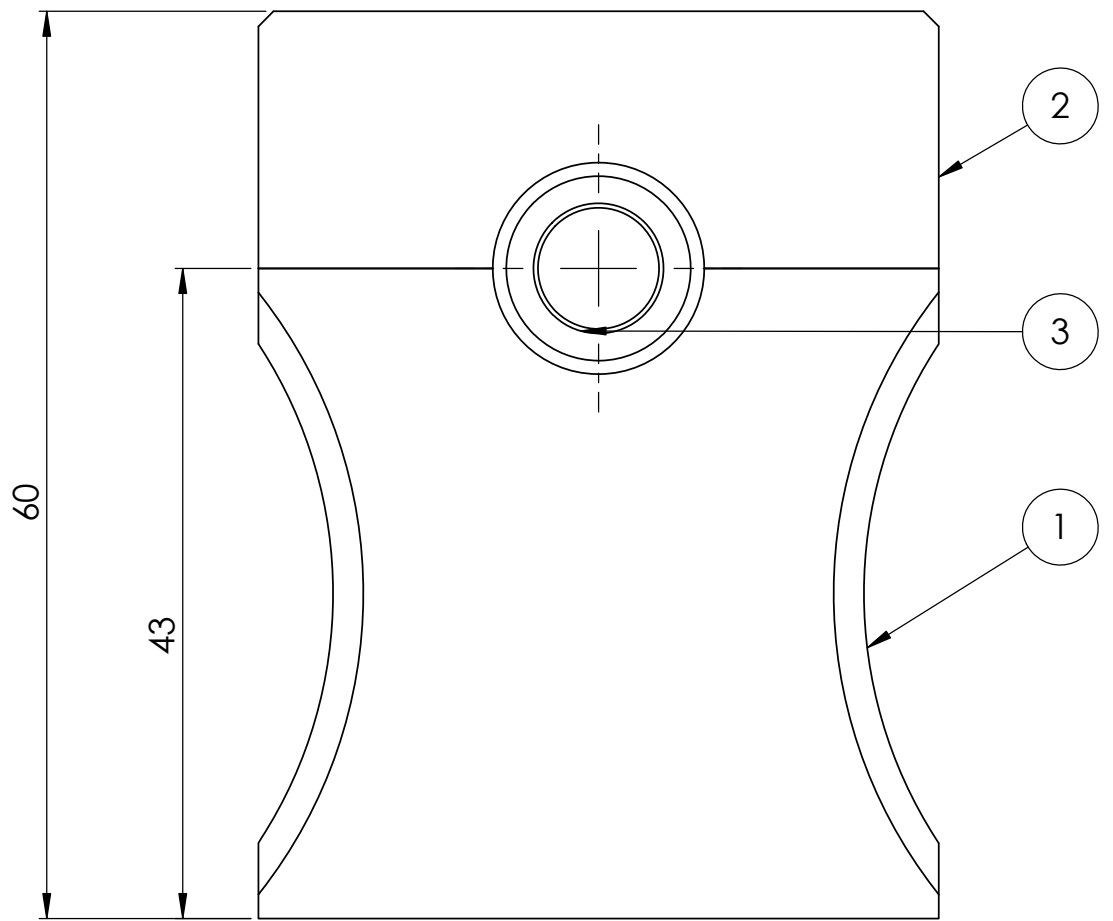
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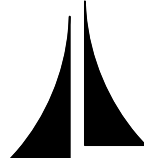
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1	1	14-11-23P024.1 - Main Bearing Foot		Alloy Steel	188.726 g
2	1	14-11-23P024.2 - Main Bearing Head		Alloy Steel	71.183 g
3	1	ISO 15 ABB - 108 - 8,SI,NC,8_68	Angular Contact Ball Bearing		
4	2	ISO 4762 M4 x 20 - 20N	Hex Socket Head Cap Screw		



All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date: 11-01-2024	Weight: 262.421 g	MATERIAL: -	Scale: 2:1
Created By: Skye Hempel	Drawing Name: <b>14-11-23S003 - Main Bearing</b>		
Approved By:	Project Name: Dobbelt Dampmaskine	Format: A3	Revision: 2
		Sheet: 1 OF 1	

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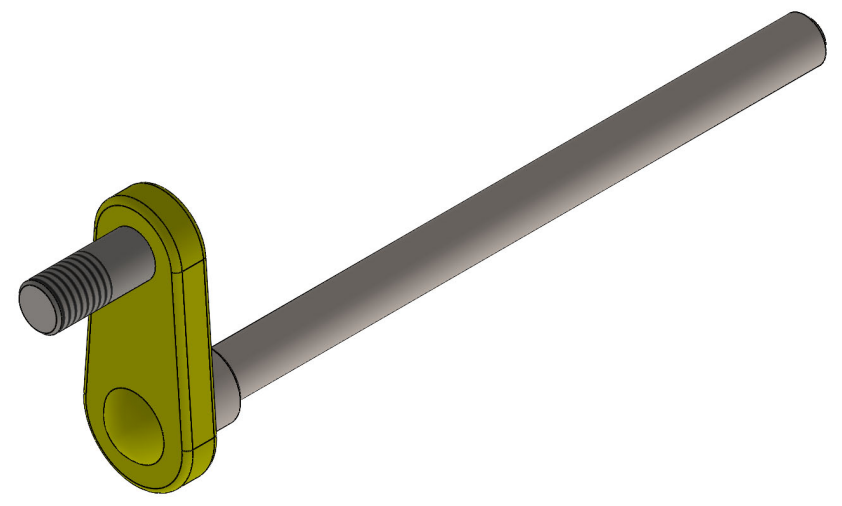
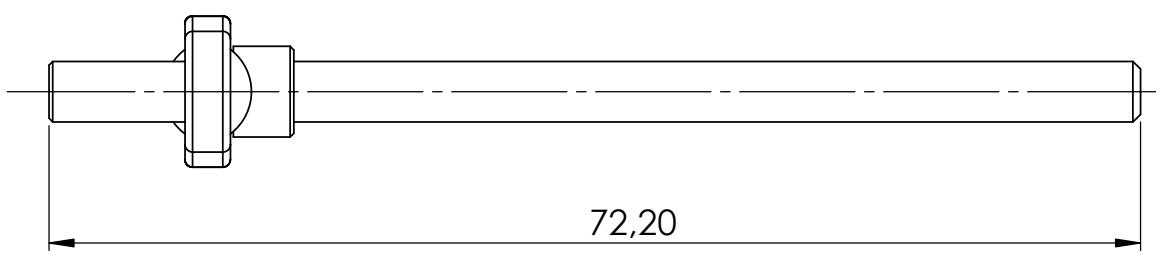
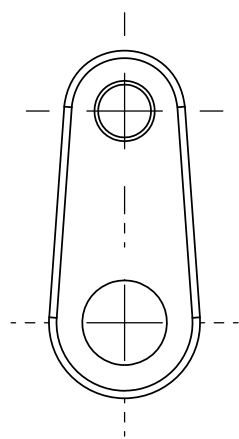
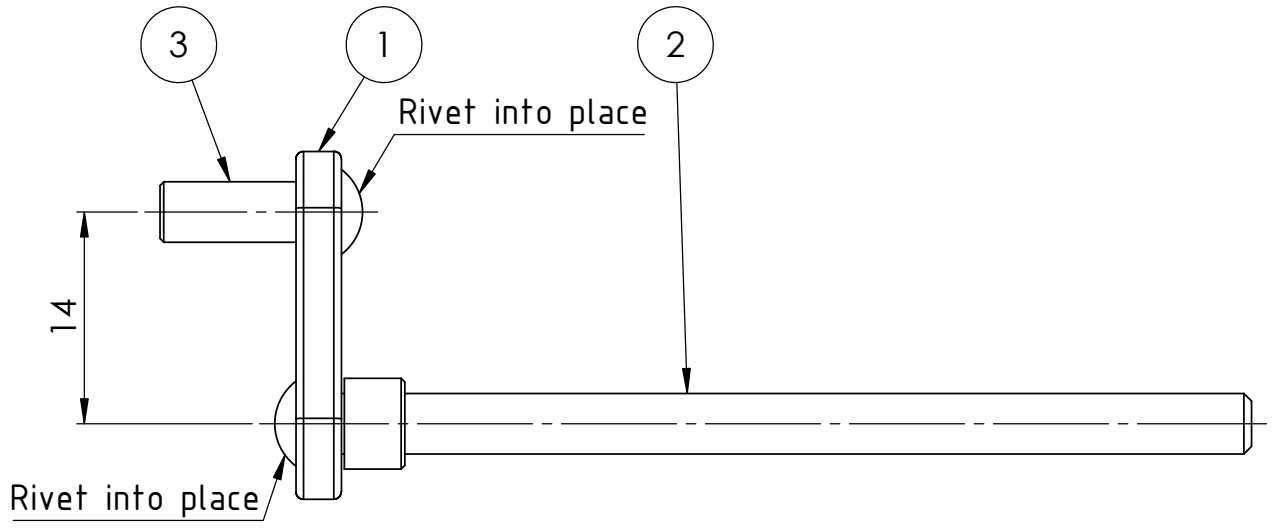
4

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ITEM NO.	QTY.	PART NUMBER	Material	Weight
1	1	14-11-23P029.1 - Rockshaft Arm	Plain Carbon Steel	3.828 g
2	1	14-11-23P029.2 - Rockshaft Rod	Stainless Steel AISI 304	6.990 g
3	1	14-11-23P029.3 - Rockshaft Short Rod	Plain Carbon Steel	1.319 g



All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde Tekniske Skole

Weight: 12.137 g    MATERIAL: -    Scale: 2:1

Creation Date: 15-01-2024

Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine

Format: A3    Revision: 1    Sheet: 1 OF 1

Drawing Name: 14-11-23S004 - Rocker Shaft

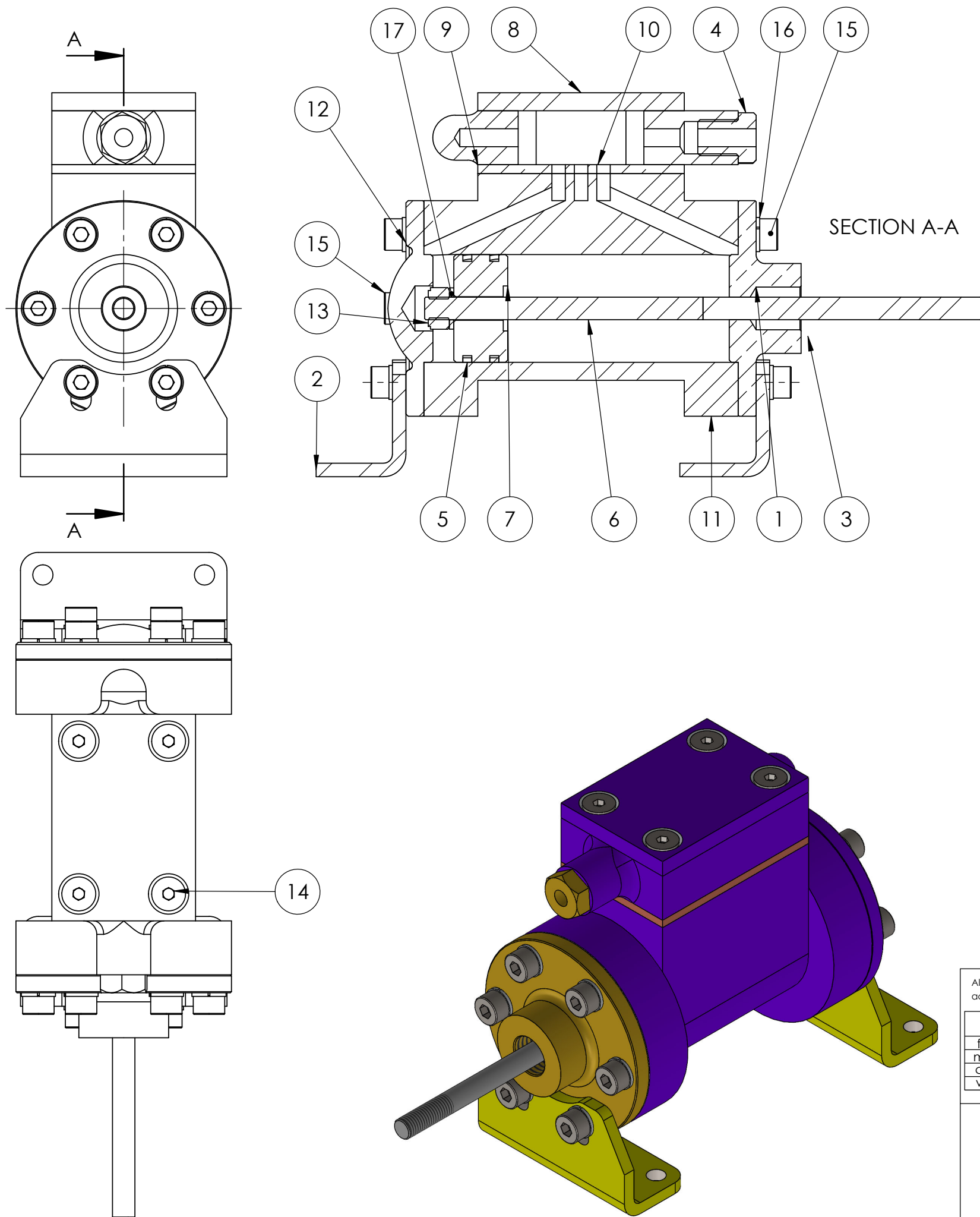
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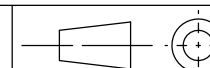


ITEM NO.	QTY.	PART NUMBER	Description	Material	Weight
1	1	14-11-23P001 -	Cylinder Cover	Brass	85.673 g
2	2	14-11-23P002 -	Cylinder Foot	Alloy Steel	38.423 g
3	1	14-11-23P002.5 -	Packnut Piston	Brass	8.519 g
4	1	14-11-23P003 -	Packnut Valve	Brass	5.360 g
5	2	14-11-23P004 -	Piston Ring	Stainless Steel AISI 304	1.111 g
6	1	14-11-23P005 -	Piston Rod	Stainless Steel AISI 304	19.470 g
7	1	14-11-23P006 -	Piston	Stainless Steel AISI 304	37.345 g
8	1	14-11-23P008 -	Steam Chest Cover	Aluminum-6061	5.552 g
9	1	14-11-23P009 -	Steam Chest	Aluminum-6061	12.429 g
10	1	14-11-23P010 -	Valve Plate	Copper	23.410 g
11	1	14-11-23P013 -	Cylinder	Aluminum-6061	72.892 g
12	1	14-11-23P019 -	Cylinder Head	Aluminum-6061	8.050 g
13	1	ISO - 4032 - M5 - W - C	Hex Nut		
14	4	ISO 10642 - M4 x 25 - 25C	Hex Socket Counter Head Screw		
15	12	ISO 4762 M4 x 12 - 12C	Hex Socket Head Cap Screw		
16	12	Spring washer DIN 128 - A4	Spring Washer		
17	1	Spring washer DIN 128 - A5	Spring Washer		

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
396.234 g

MATERIAL:  
-

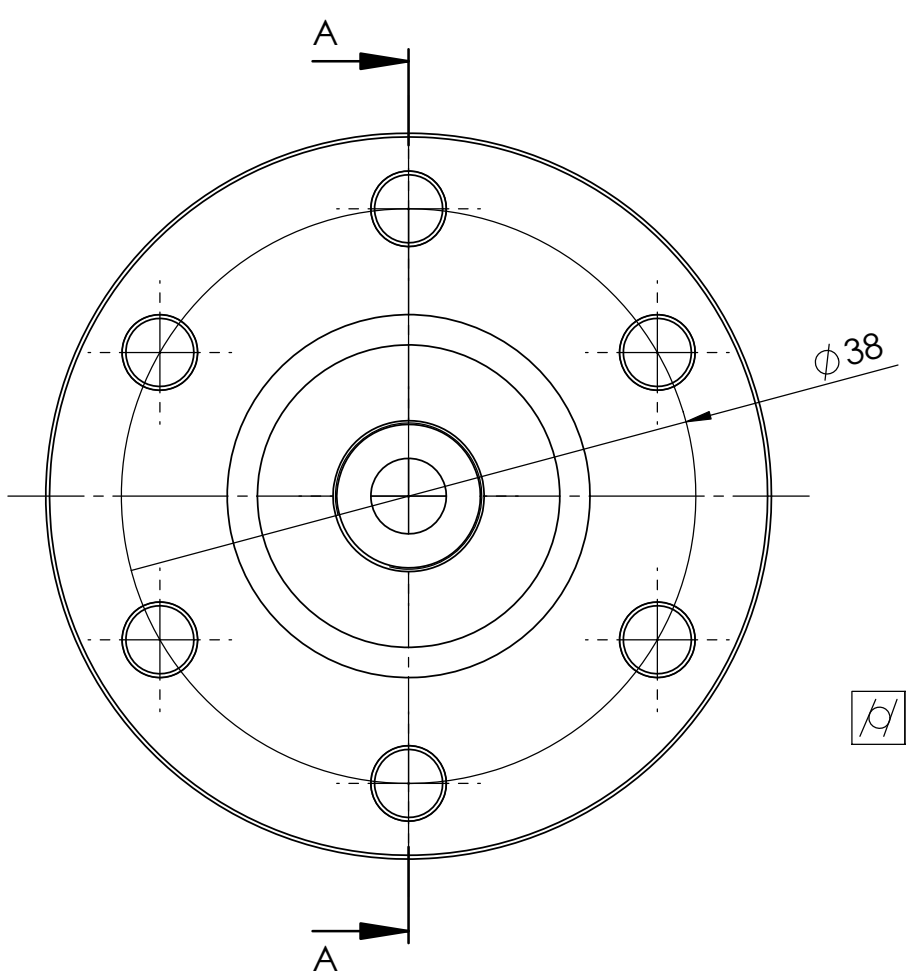
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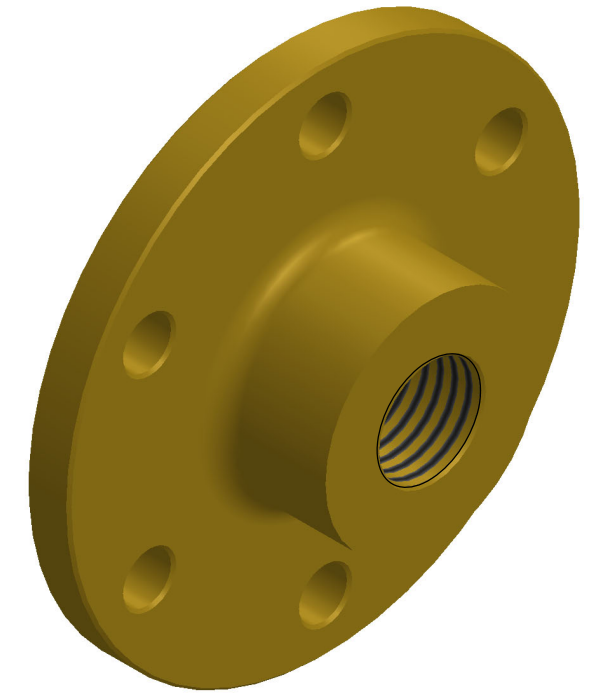
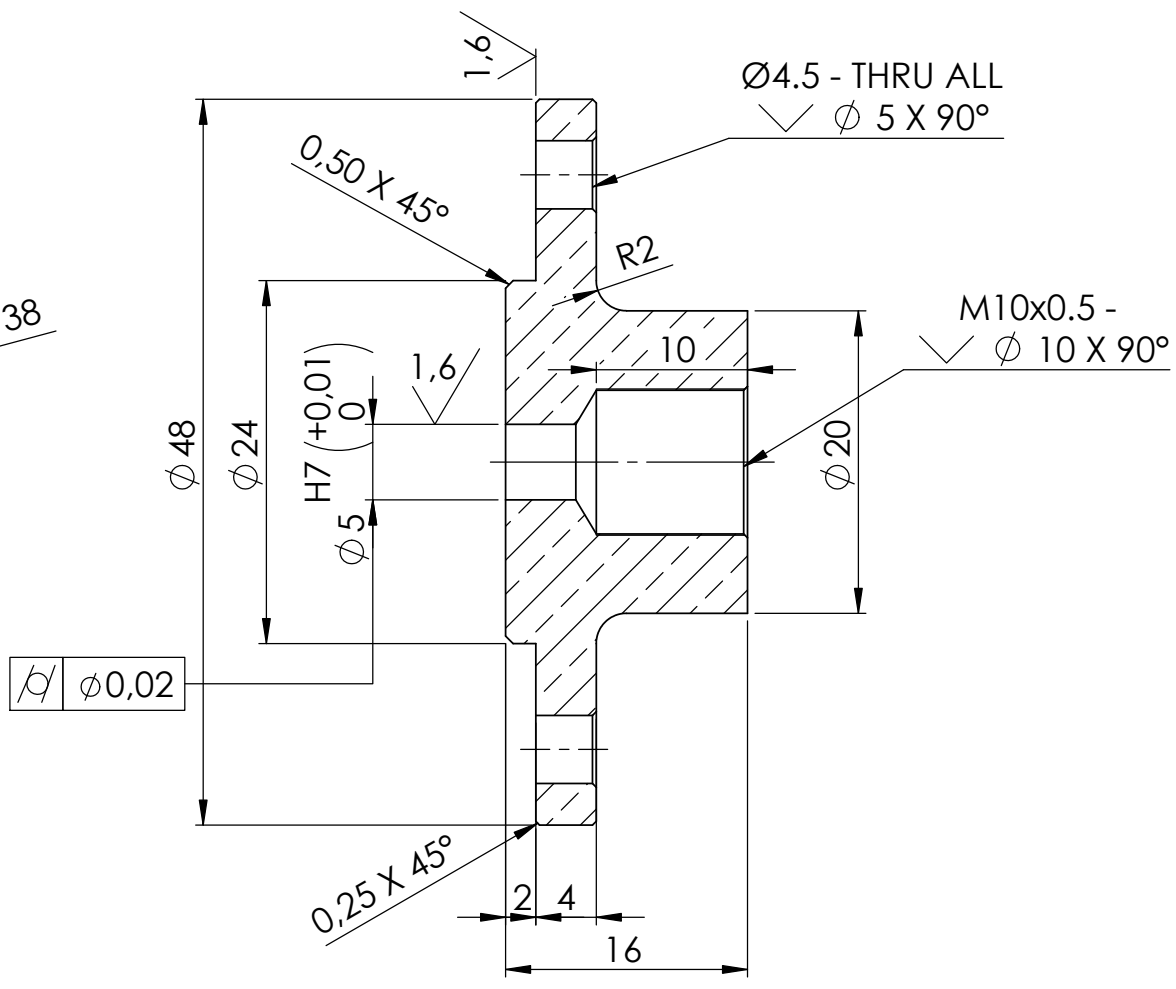
14-11-23S005 -  
Cylinder

Format: A3	Revision: 1	Sheet: 1 OF 1
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3,2/ (✓)



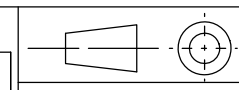
SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	...	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 85.673 g  
 MATERIAL: Brass  
 Scale: 1:1

Creation Date: 14-11-2023

Drawing Name:  
**14-11-23P001 - Cylinder Cover**

Created By: Skye Hempel

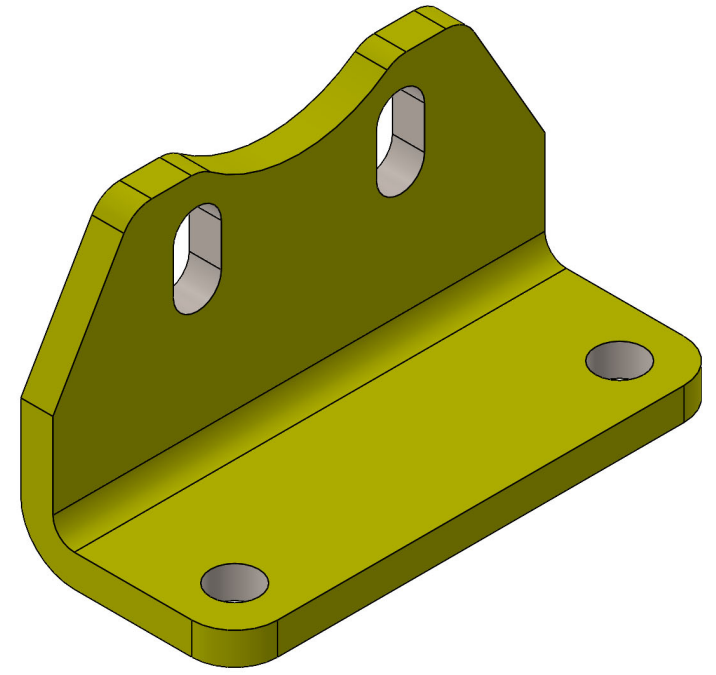
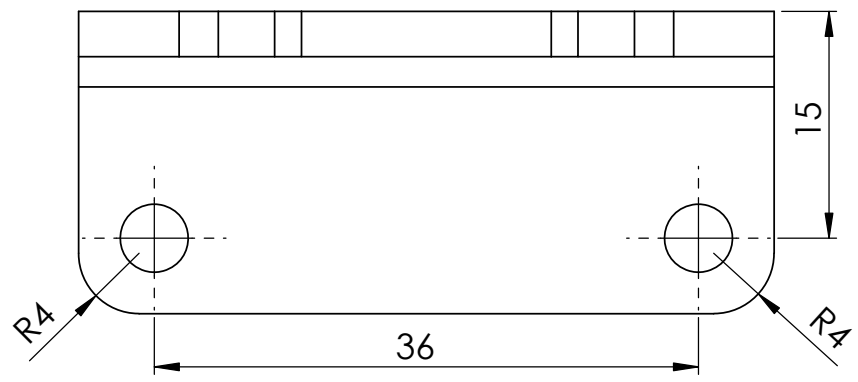
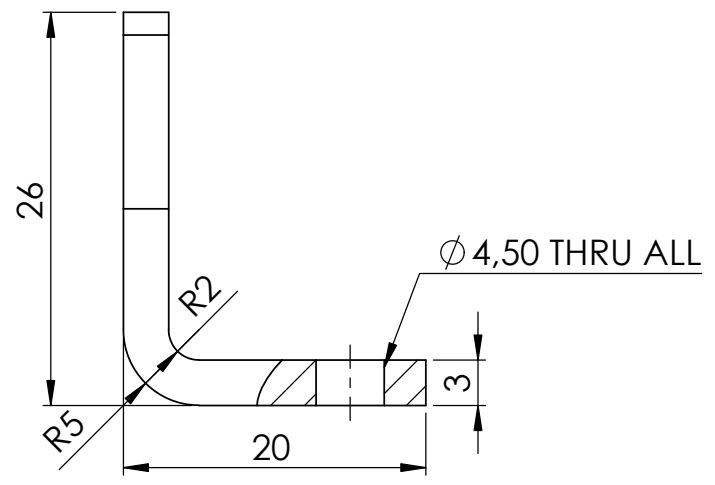
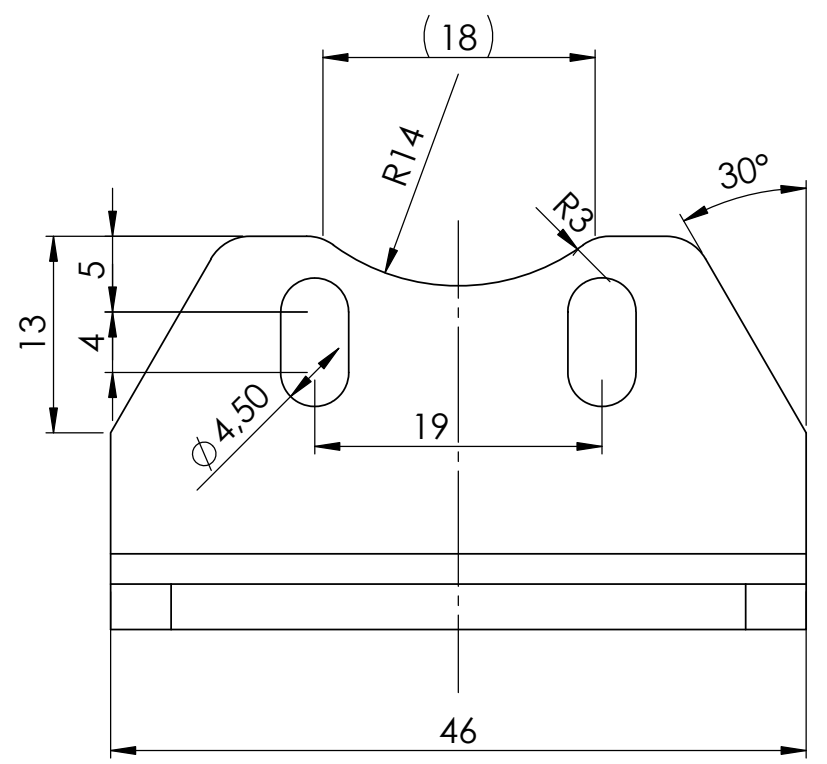
Approved By: -

Roskilde Tekniske Skole



Project Name: Dobbelt Damp Maskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

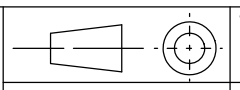
3,2



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 38.423 g

MATERIAL: Alloy Steel

Scale: 2:1

Creation Date: 16-11-2023

Drawing Name:

Created By: Skye Hempel

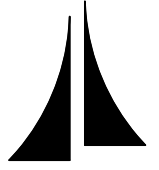
14-11-23P002 - Cylinder Foot

Approved By: -

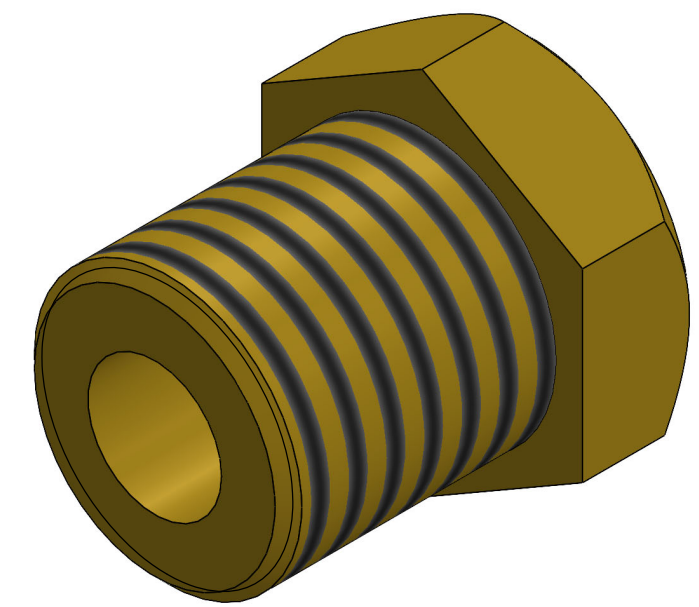
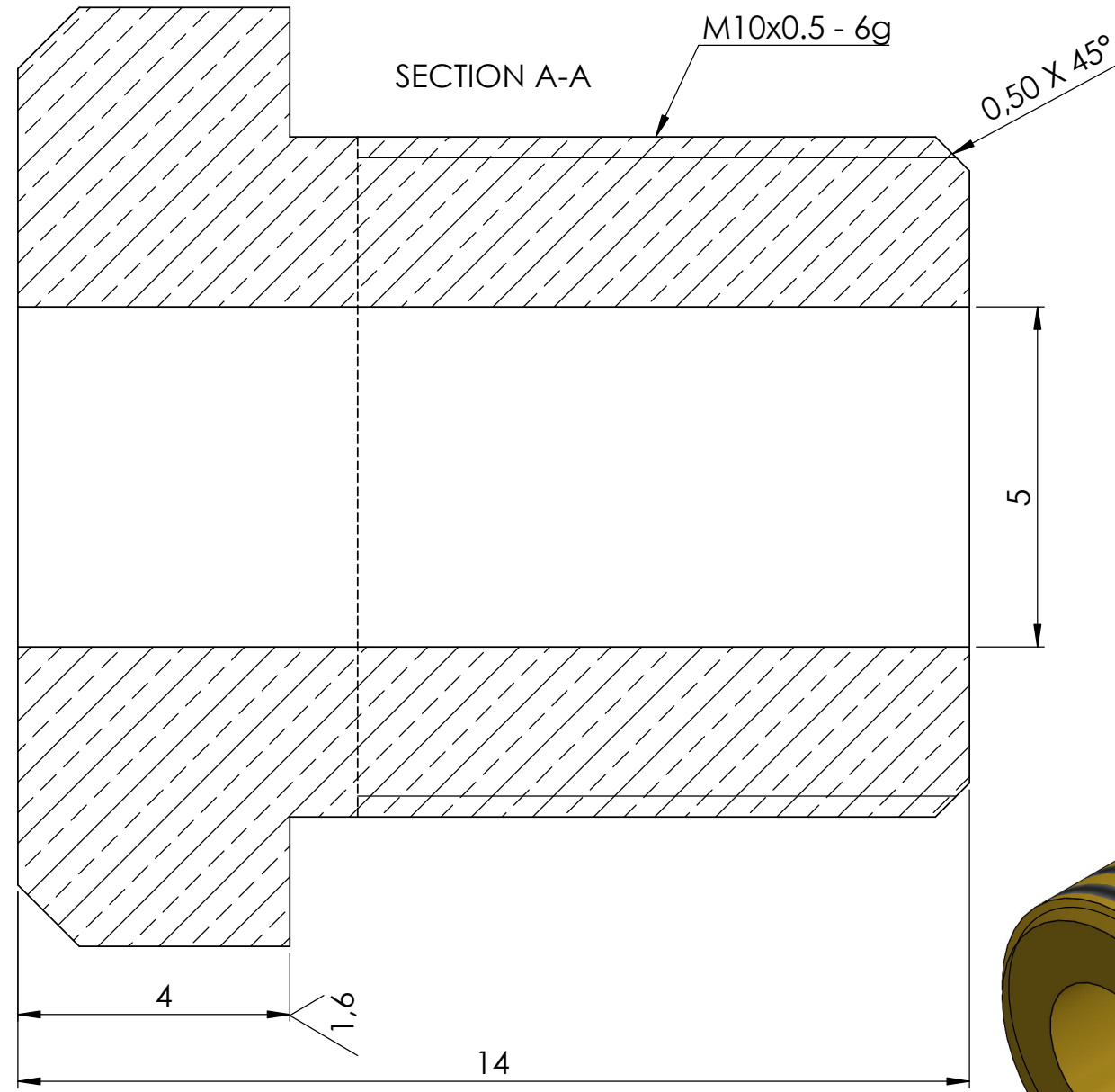
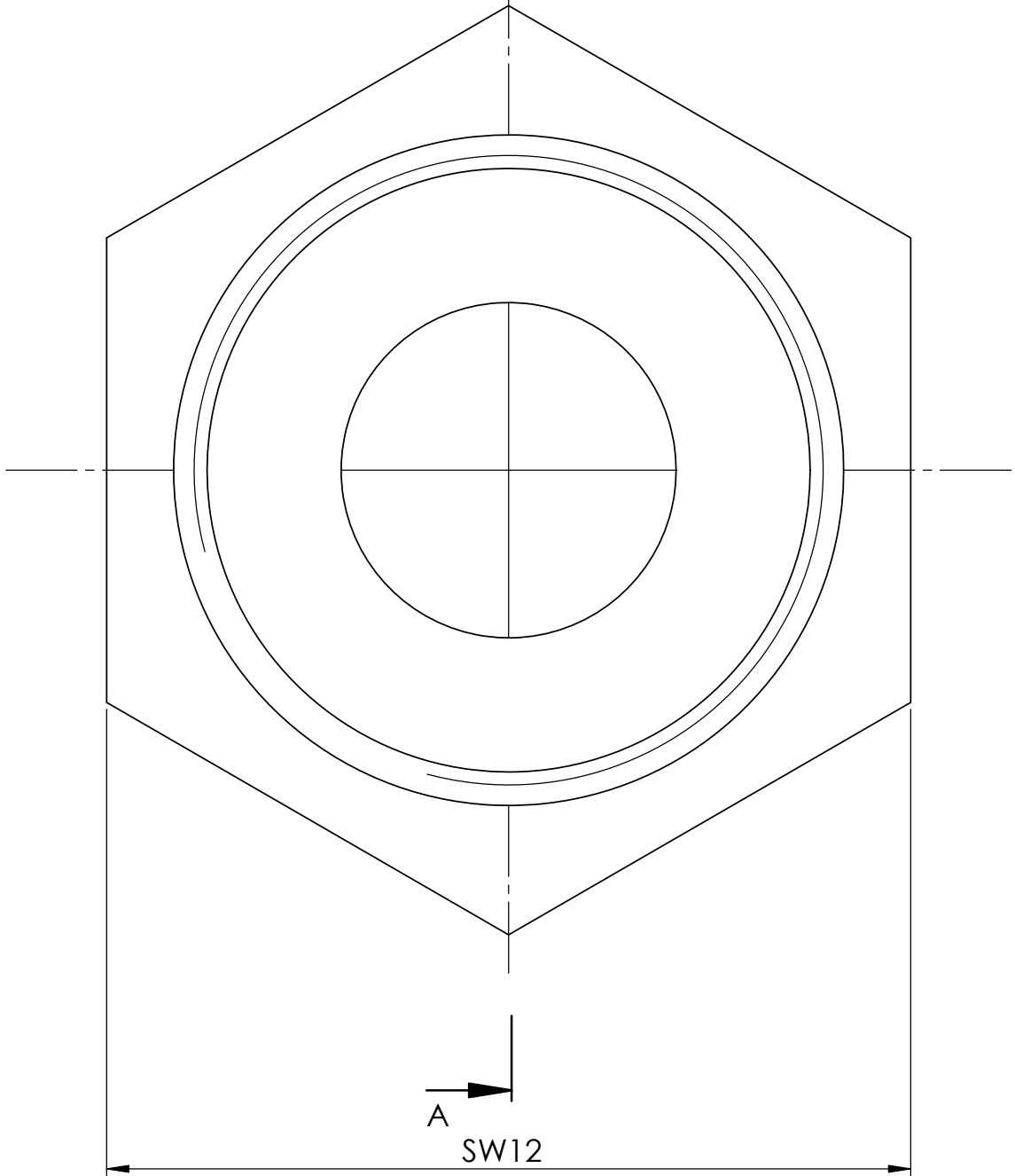
Project Name: Dobbelt Dampmaskine

Format: A3, Revision: 1, Sheet: 1 OF 1

Roskilde Tekniske Skole



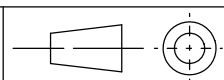
3,2 (✓)



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	---	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 8,519 g      MATERIAL: Brass      Scale: 10:1

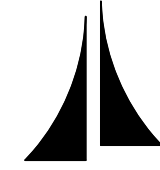
Creation Date: 16-11-2023

Drawing Name:  
**14-11-23P002.5 - Packnut Piston**

Created By: Skye Hempel

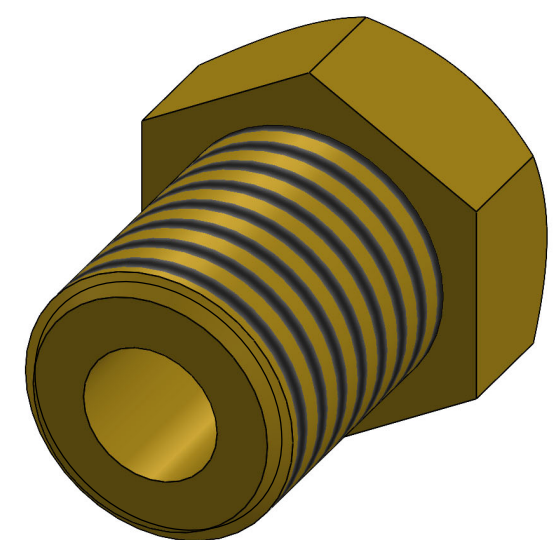
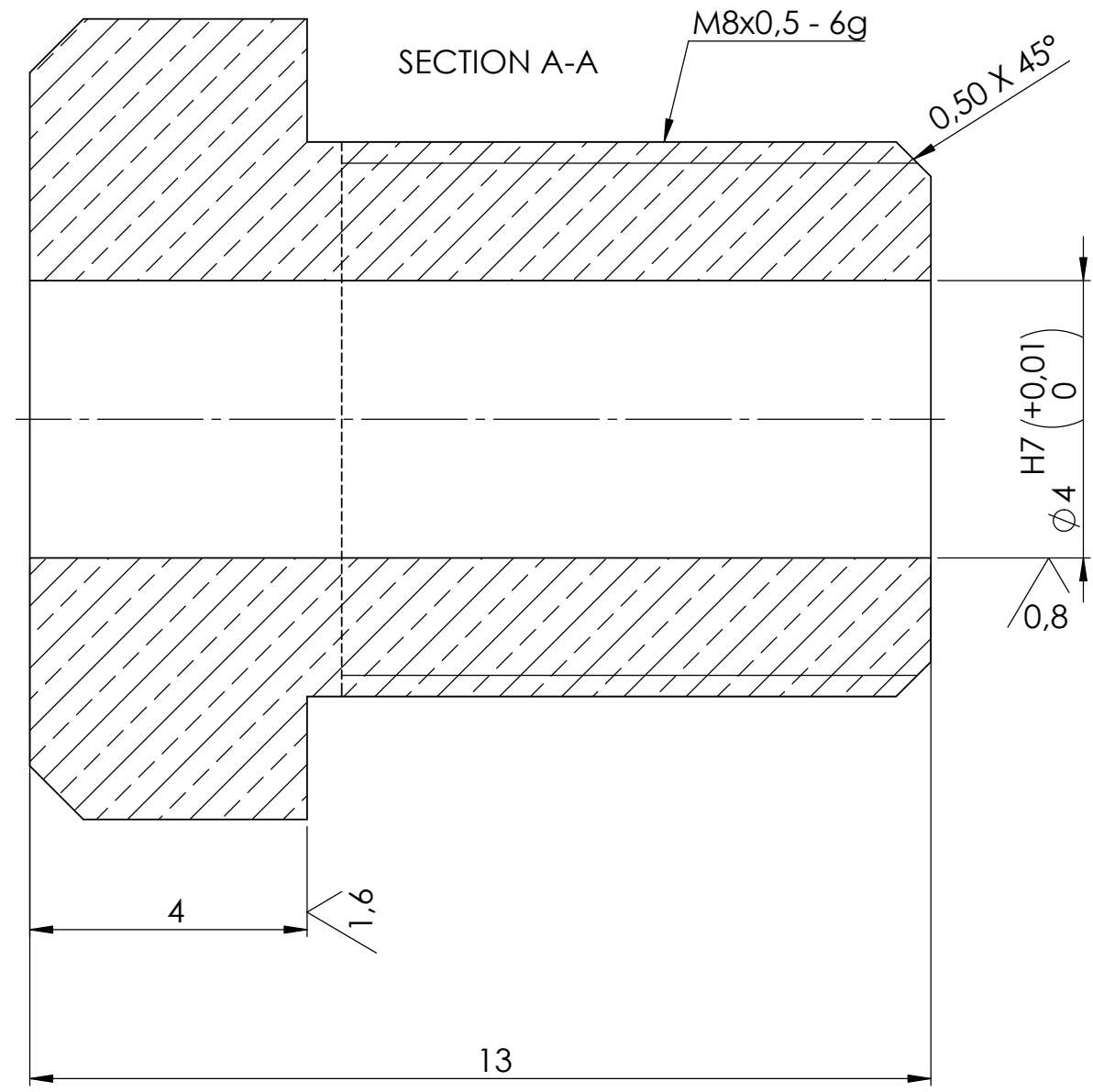
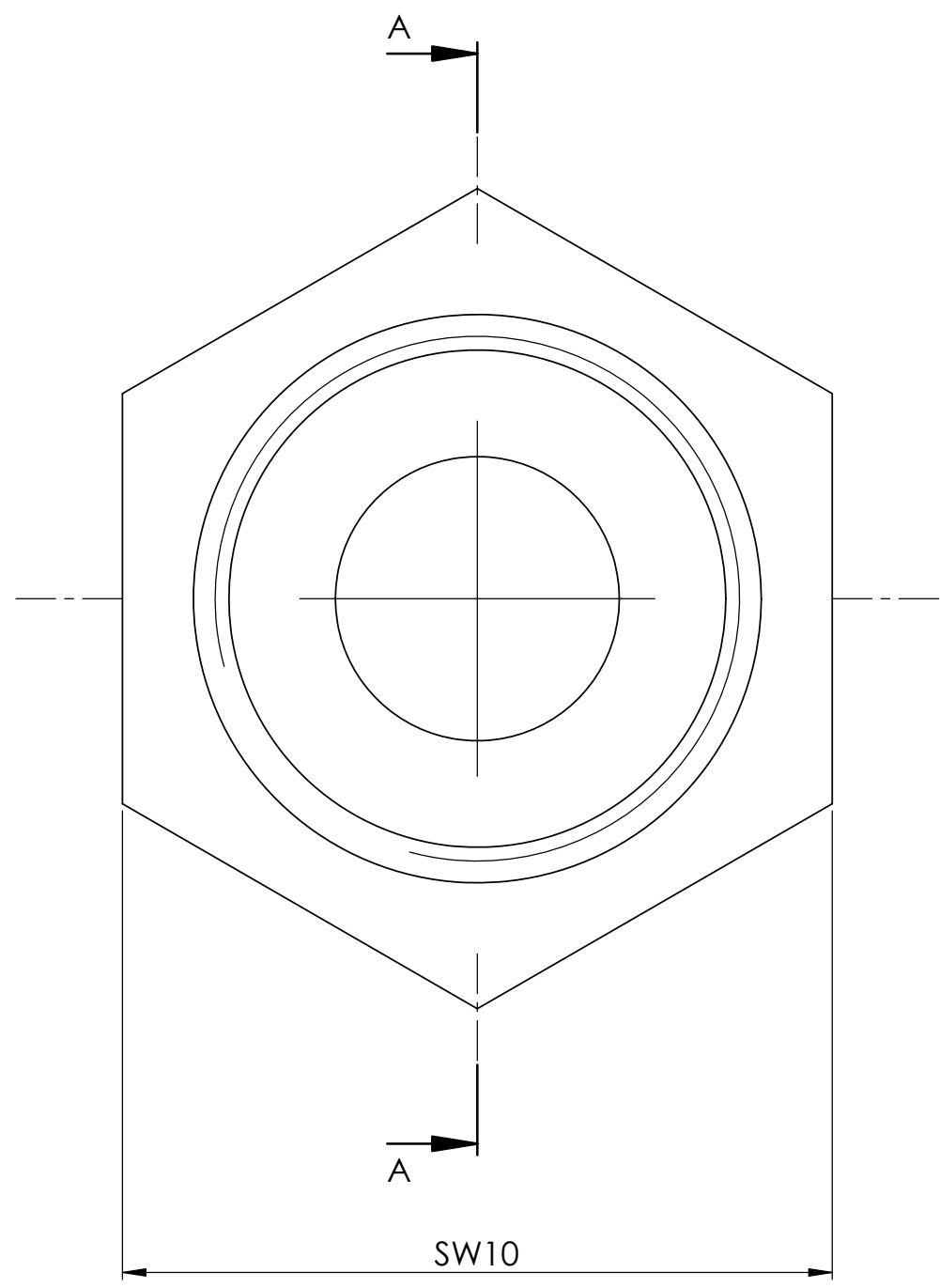
Approved By: -

Roskilde  
Tekniske  
Skole



Project Name: Dobbelt Dampmaskine      Format: A3      Revision: 1      Sheet: 1 OF 1

3,2



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	...	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Weight: 5.360 g	MATERIAL: Brass	Scale: 10:1
Creation Date: 16-11-2023	Drawing Name: <b>14-11-23P003 - Packnut Valve</b>	
Created By: Skye Hempel	Approved By: -	
Project Name: Dobbelt Dampmaskine	Format: A3	Revision: 2
		Sheet: 1 OF 1

8

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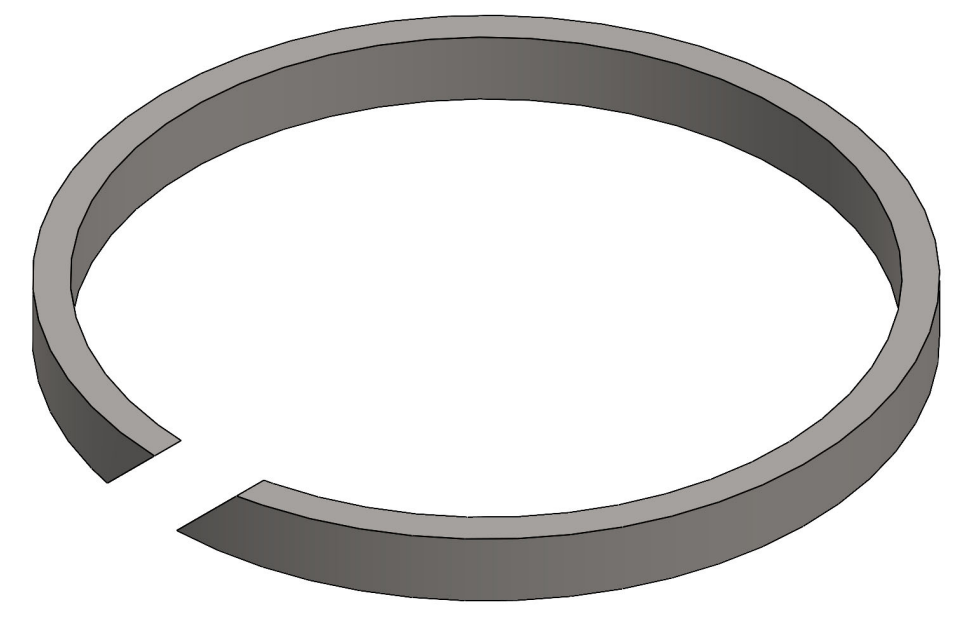
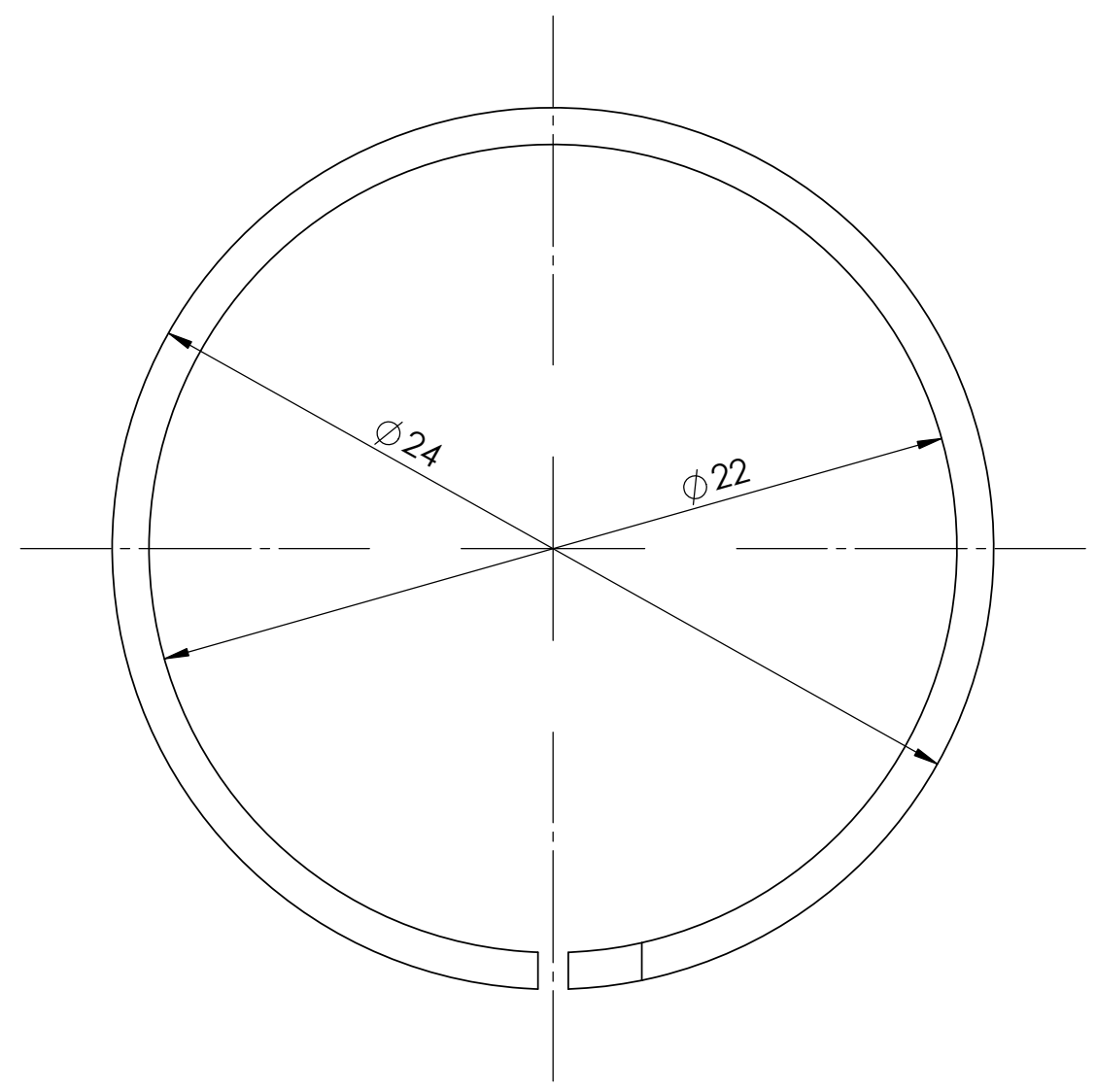
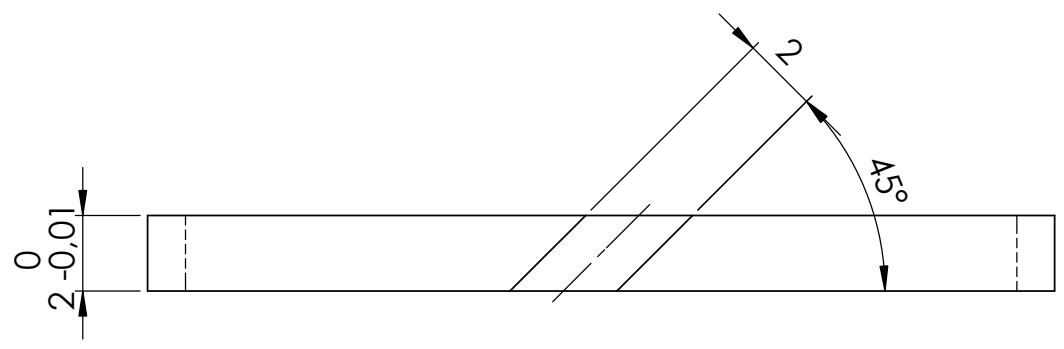
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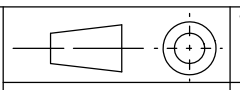
1,6



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	---	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 1.111 g

MATERIAL: Stainless Steel AISI 304

Scale: 2:1

Creation Date: 16-11-2023

Drawing Name: 14-11-23P004 - Piston Ring

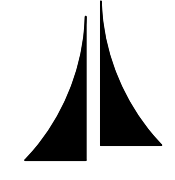
Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine

Format: A3, Revision: 1, Sheet: 1 OF 1

Roskilde Tekniske Skole



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F

E

D

C

B

A

F

E

D

C

B

A

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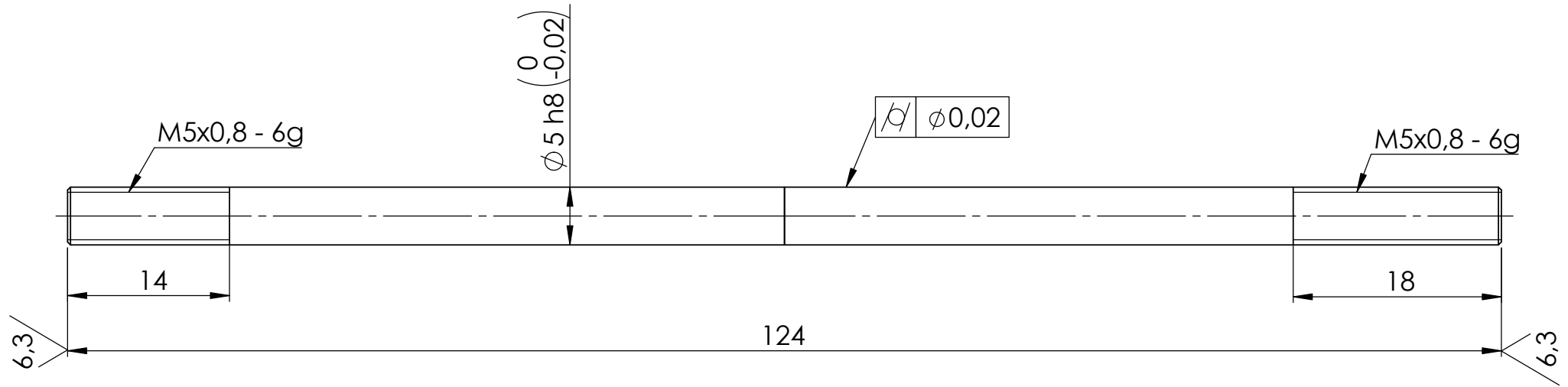
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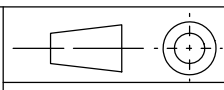
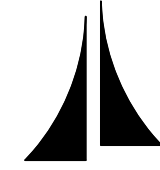


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Weight:  
19.470 g

MATERIAL:  
Stainless Steel AISI 304

Scale:  
2:1

Creation Date:  
16-11-2023

Drawing Name:  
**14-11-23P005 -  
Piston Rod**

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Format:  
A3

Revision:  
1

Sheet:  
1 OF 1

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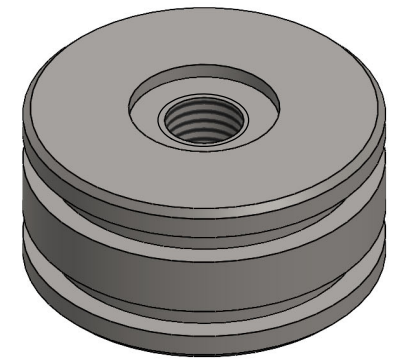
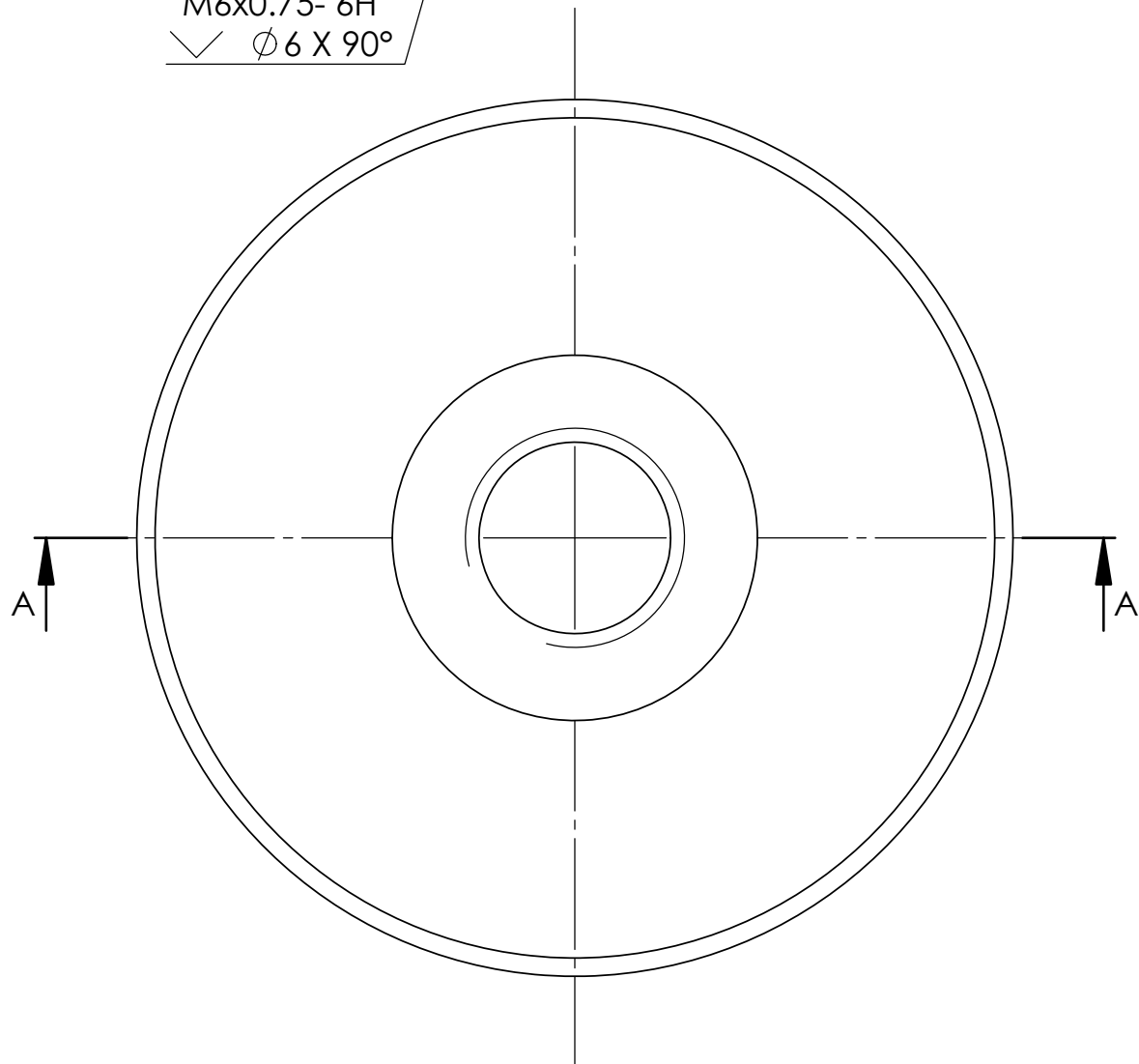
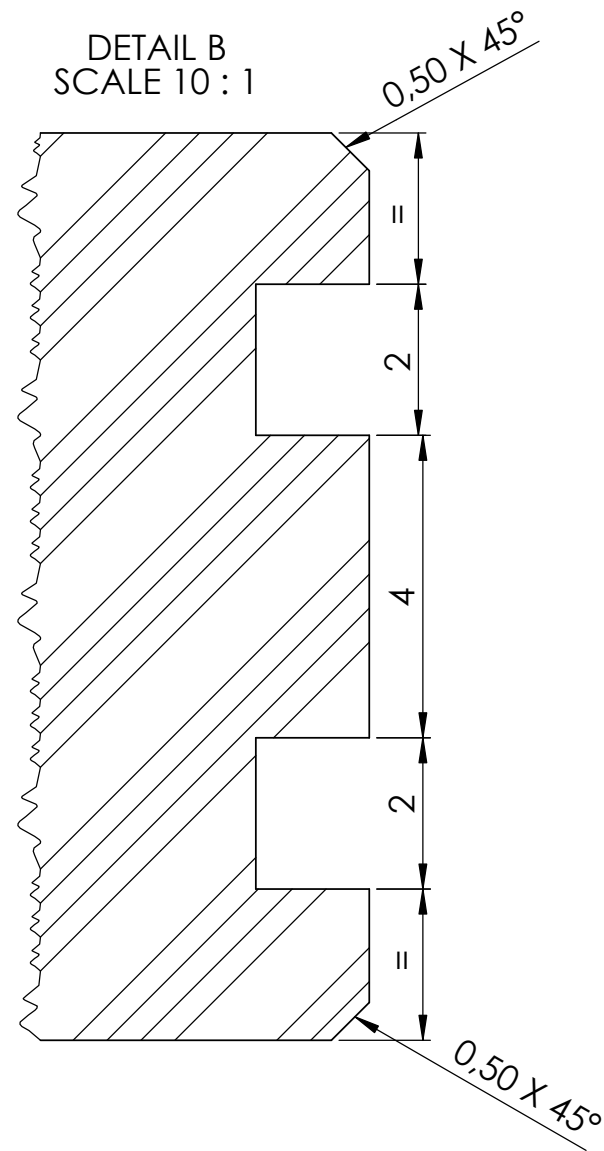
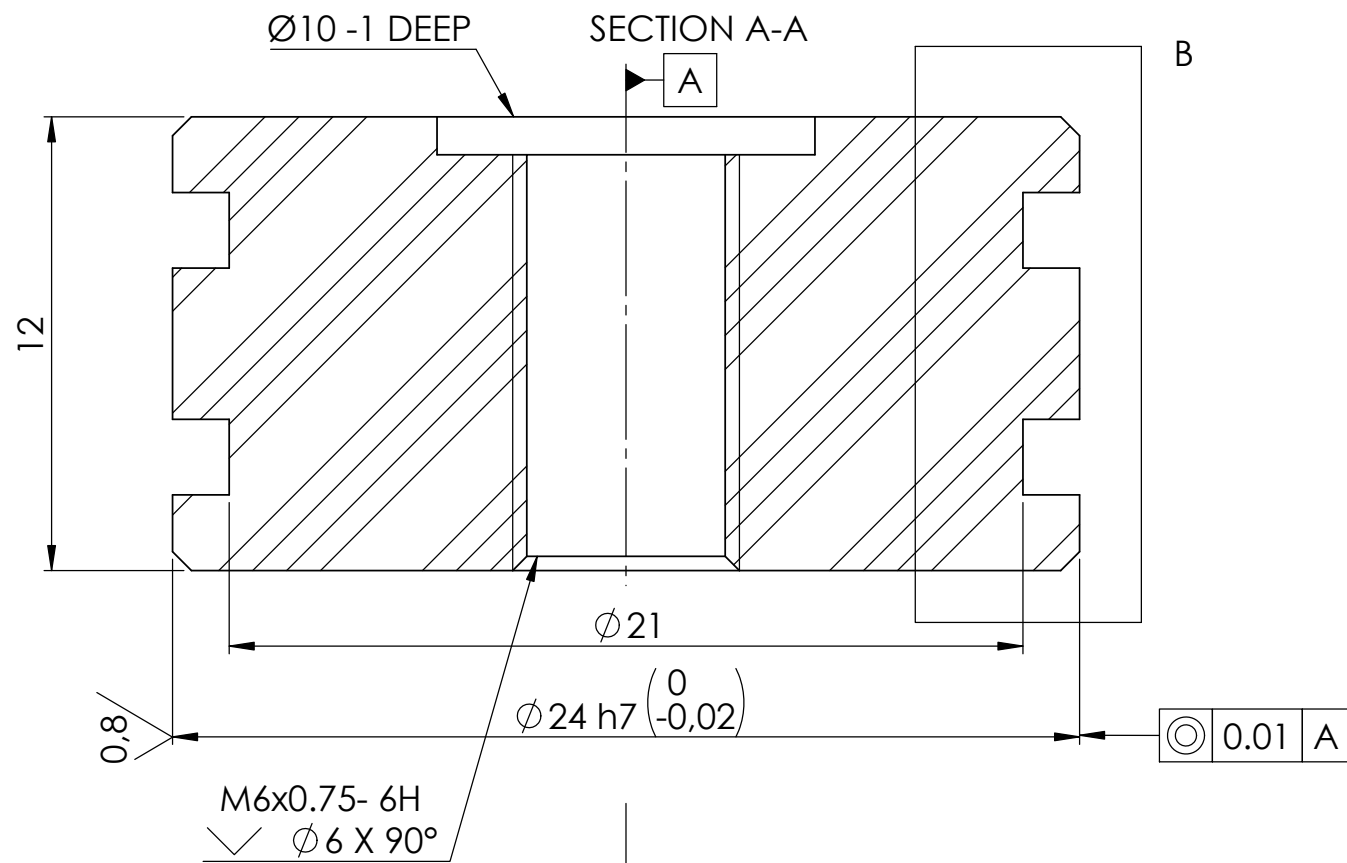
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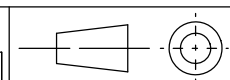
3,2/ (✓)



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	---	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 37.345 g  
 MATERIAL: Stainless Steel AISI 304  
 Scale: 5:1

Creation Date: 16-11-2023

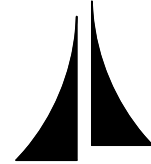
Drawing Name: 14-11-23P006 - Piston

Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

Roskilde  
 Tekniske  
 Skole



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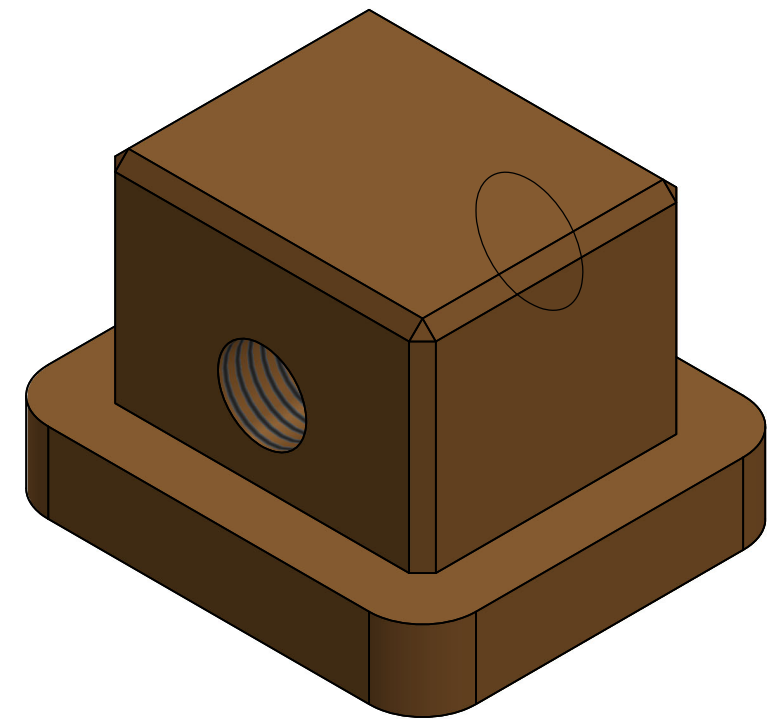
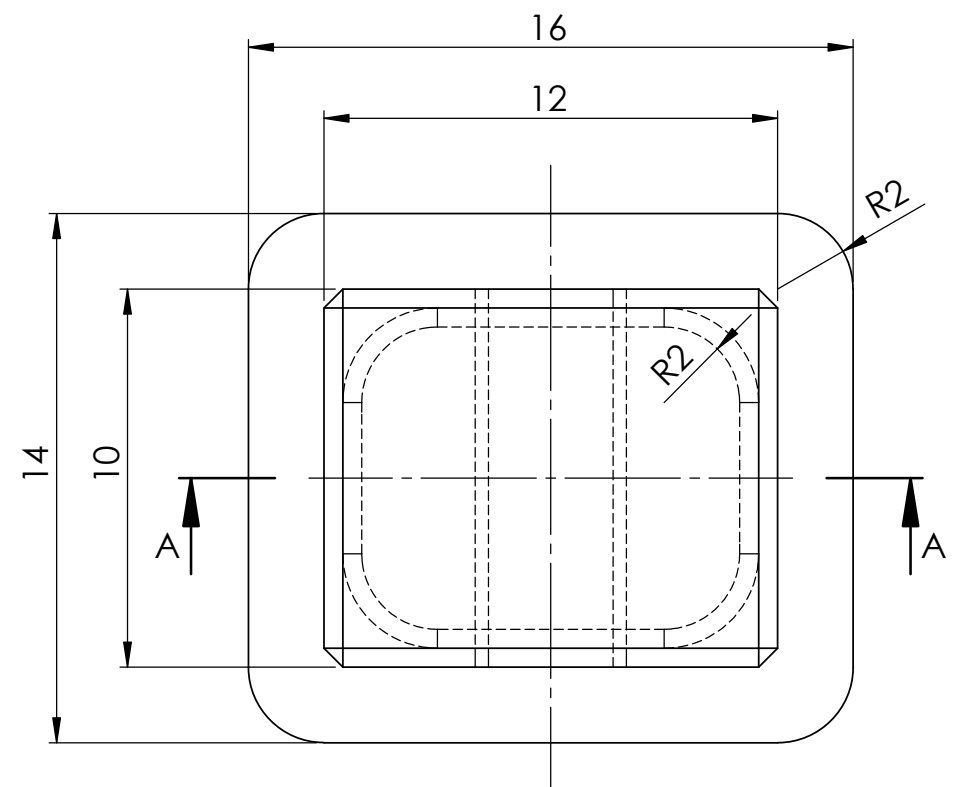
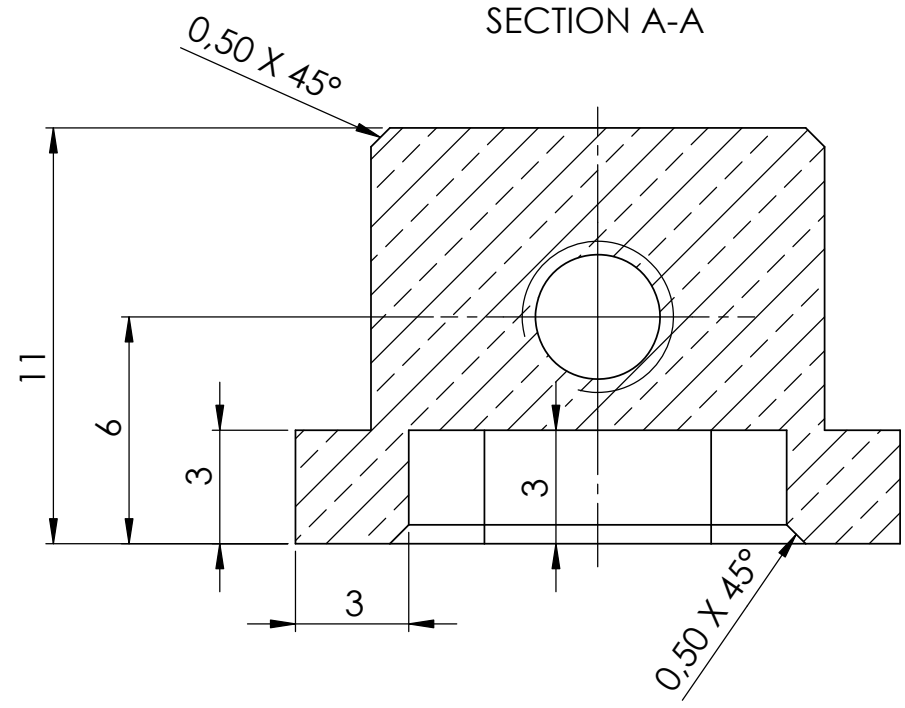
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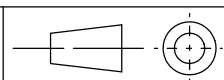
SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 9.569 g

MATERIAL: Aluminum Bronze

Scale: 5:1

Creation Date: 16-11-2023

Drawing Name: 14-11-23P007 - Steam Chest Slide Valve

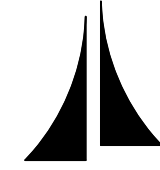
Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine

Format: A3, Revision: 1, Sheet: 1 OF 1

Roskilde Tekniske Skole



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F, E, D, C, B, A

F, E, D, C, B, A

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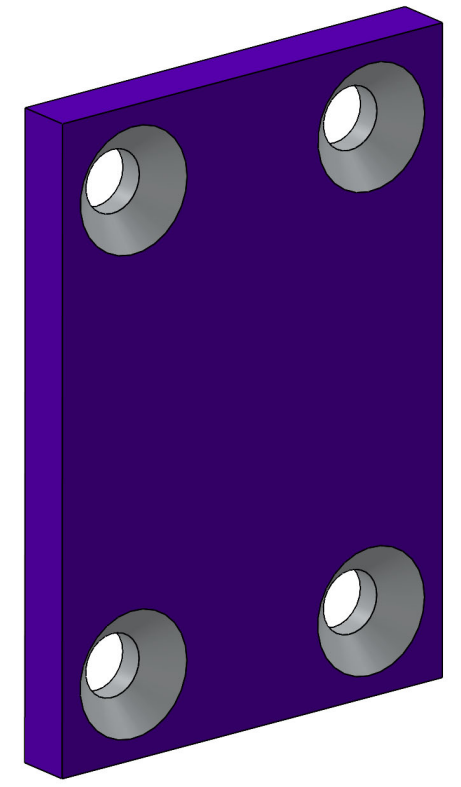
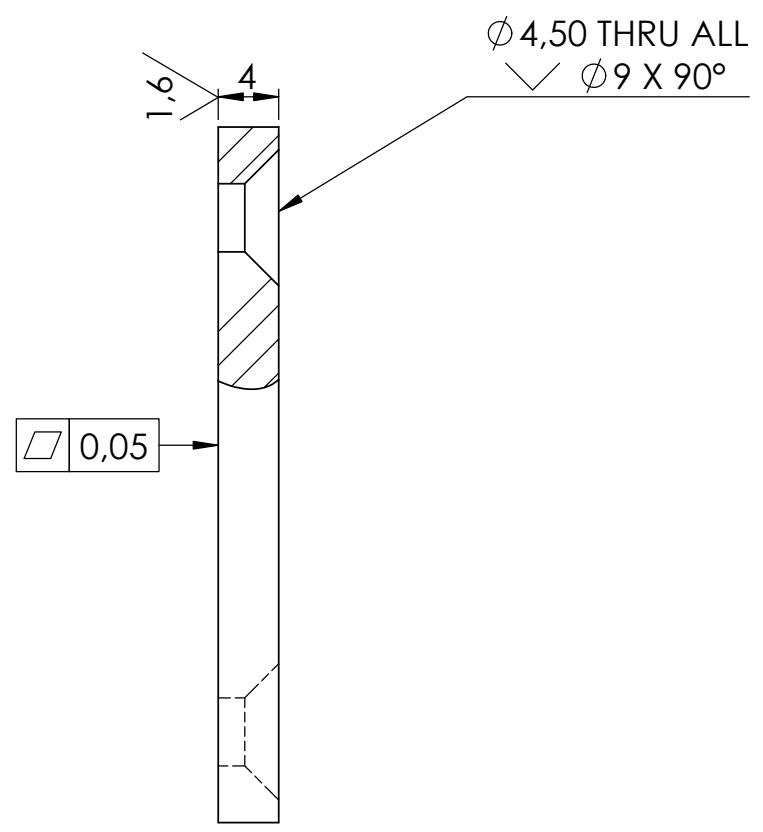
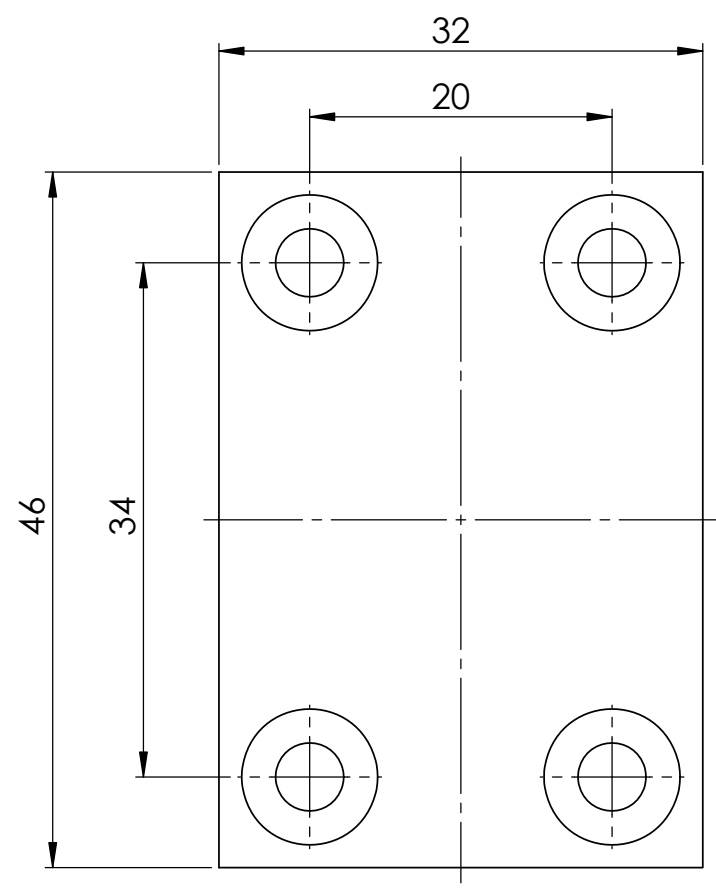
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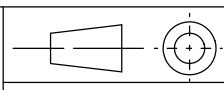
3.2 (✓)



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 5.552 g

MATERIAL: Aluminum-6061

Scale: 2:1

Creation Date: 20-11-2023

Drawing Name: 14-11-23P008 - Steam Chest Cover

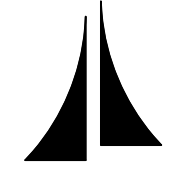
Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine

Format: A3, Revision: 1, Sheet: 1 OF 1

Roskilde Tekniske Skole



5

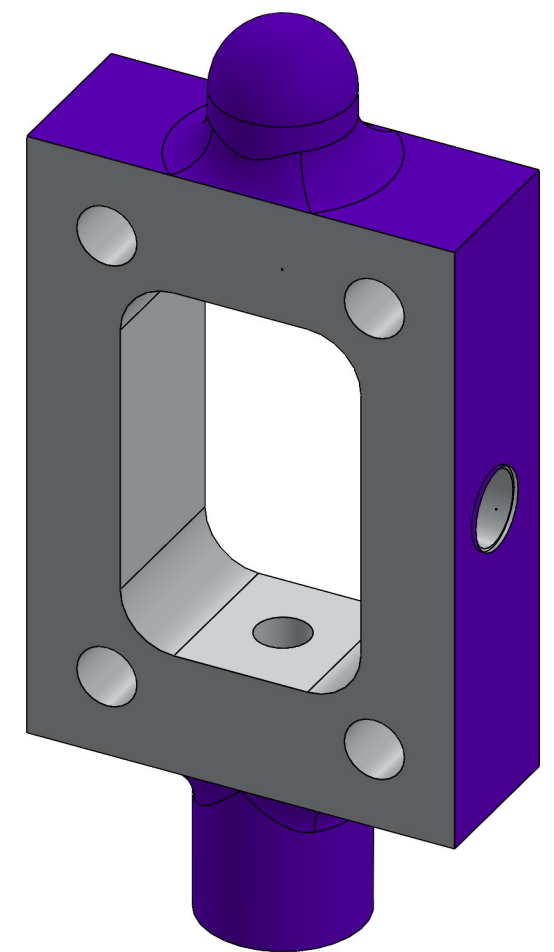
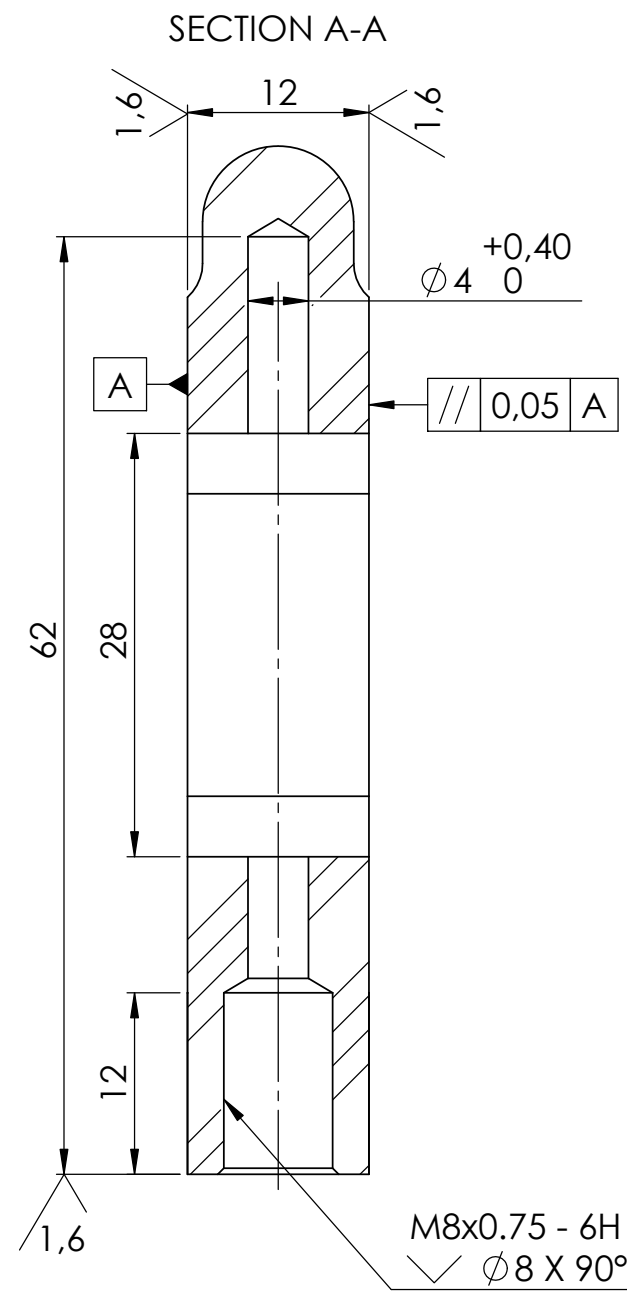
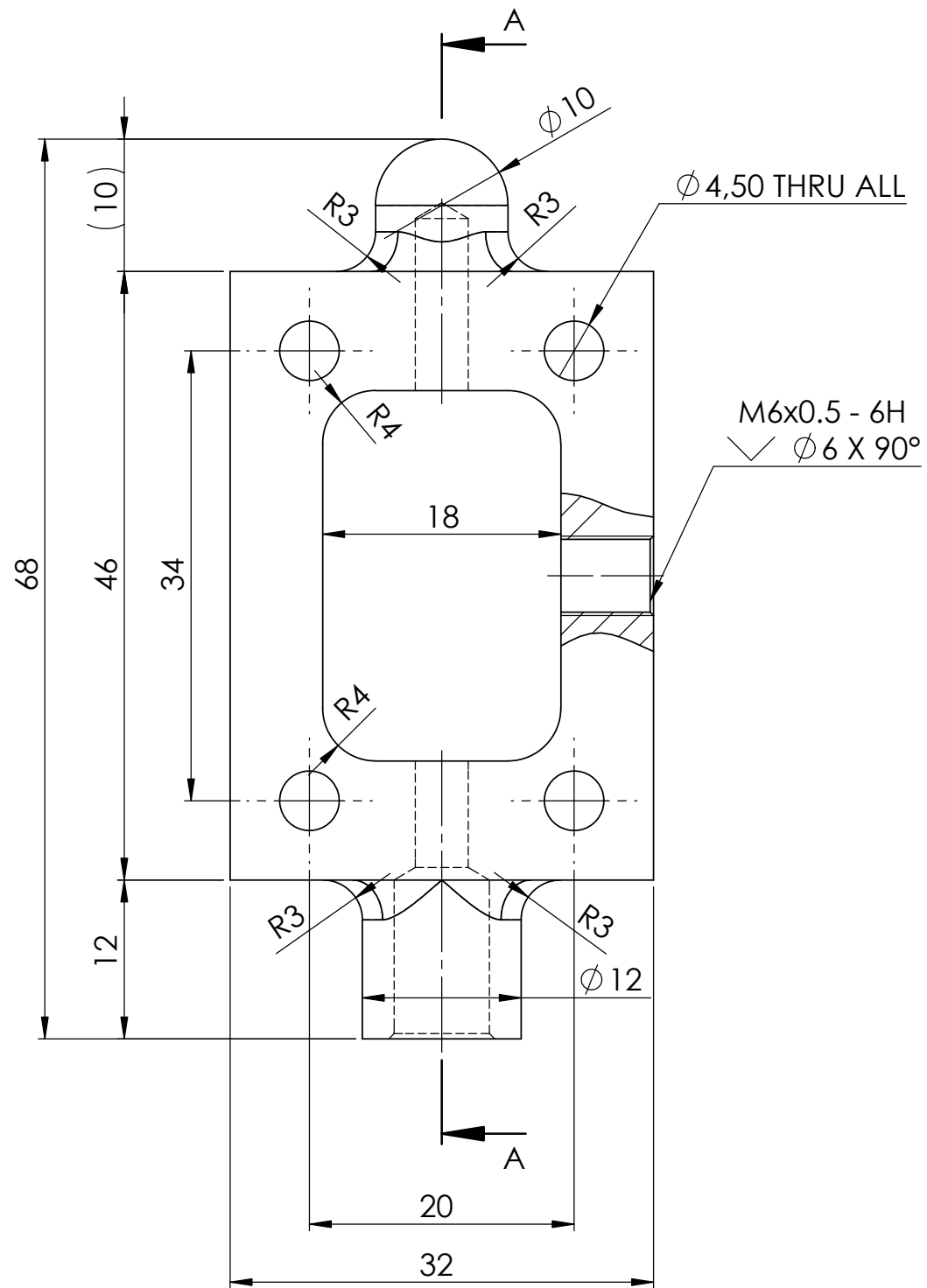
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3.2/ (✓)

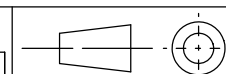
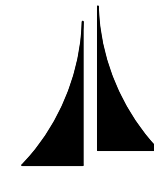


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	---	±0.5	±1	±1.5	±2.5	±4	±6

Roskilde  
Tekniske  
Skole



Weight:  
12.429 g

MATERIAL:  
Aluminum-6061

Scale:  
2:1

Creation Date:  
20-11-2023

Drawing Name:

14-11-23P009 -  
Steam Chest

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Format:  
A3

Revision:  
1

Sheet:  
1 OF 1

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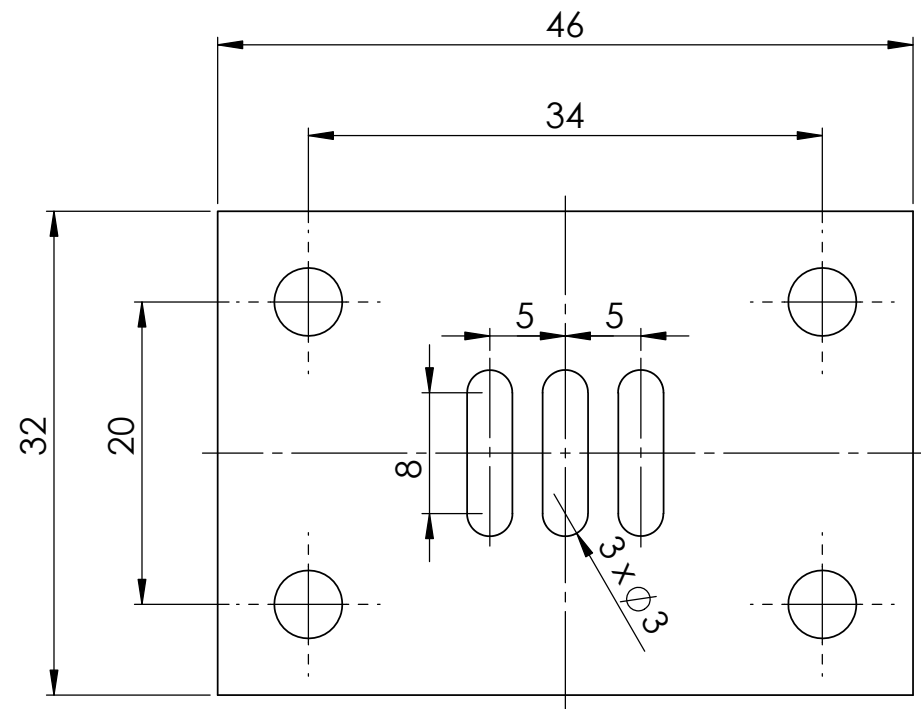
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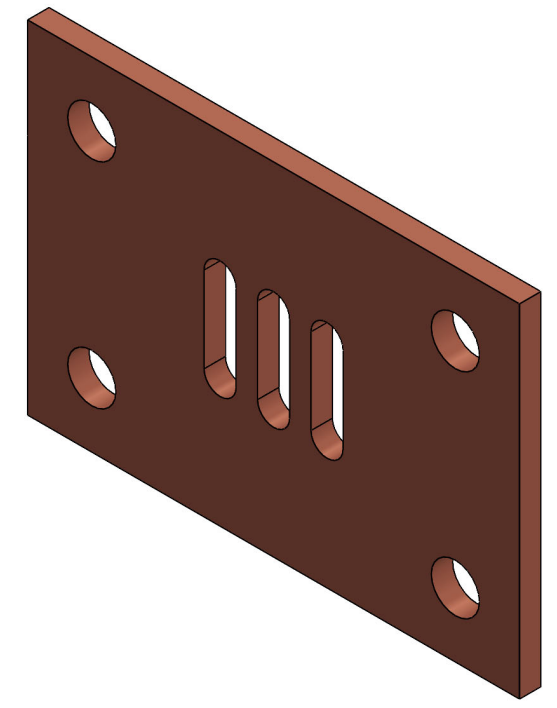
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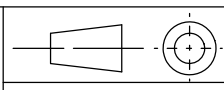
Thickness = 2,0mm



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 23.410 g

MATERIAL: Copper

Scale: 2:1

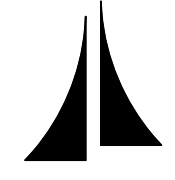
Creation Date: 20-11-2023

Created By: Skye Hempel

Approved By: -

Drawing Name:  
**14-11-23P010 - Valve Plate**

Roskilde  
 Tekniske  
 Skole



Project Name:  
 Dobbelt Dampmaskine

Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

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F

F

E

E

D

D

C

C

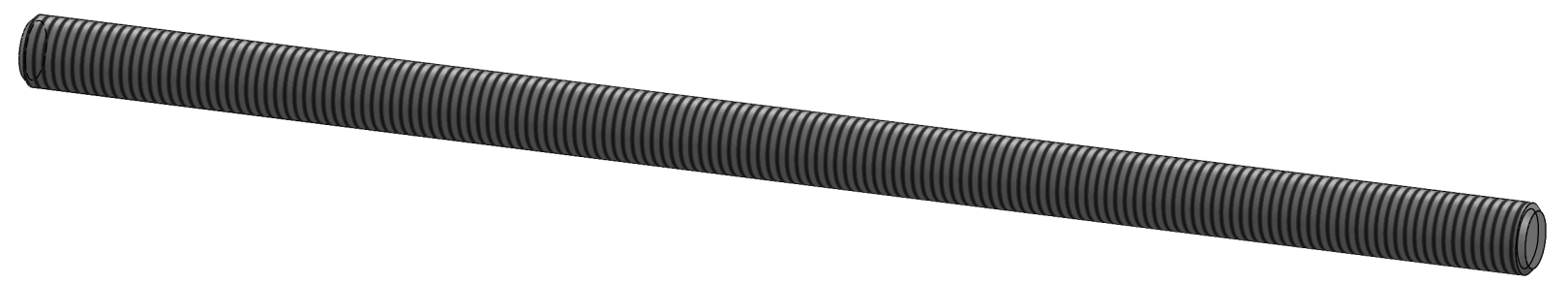
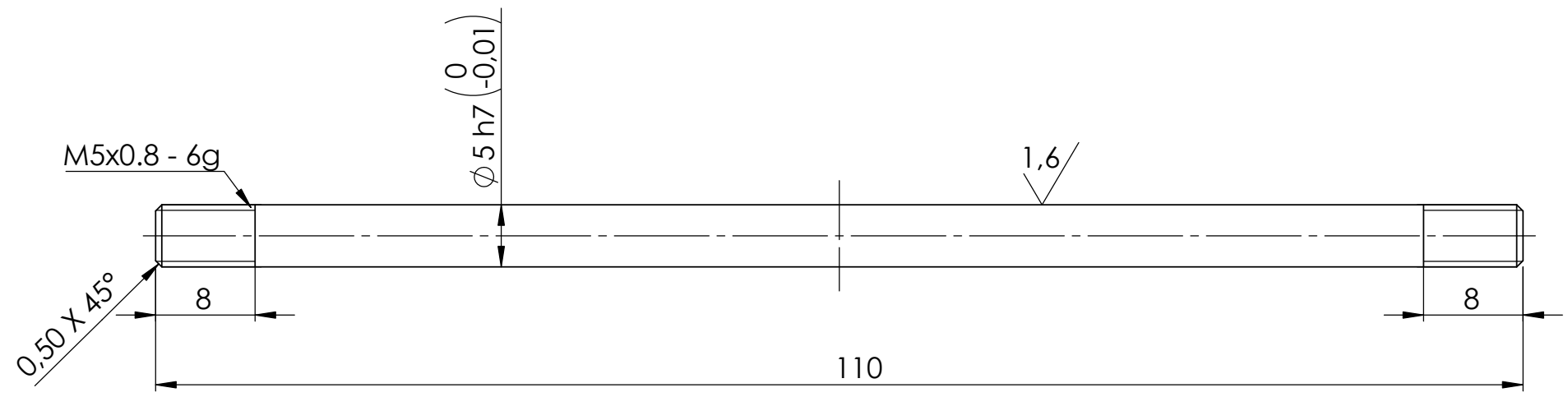
B

B

A

A

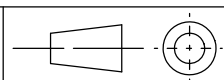
3,2



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 17.249 g

MATERIAL: Stainless Steel AISI 304

Scale: 2:1

Creation Date: 20-11-2023

Drawing Name: 14-11-23P011 - Connecting Rod

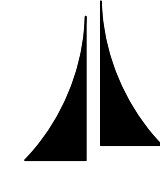
Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine

Format: A3 Revision: 1 Sheet: 1 OF 1

Roskilde Tekniske Skole



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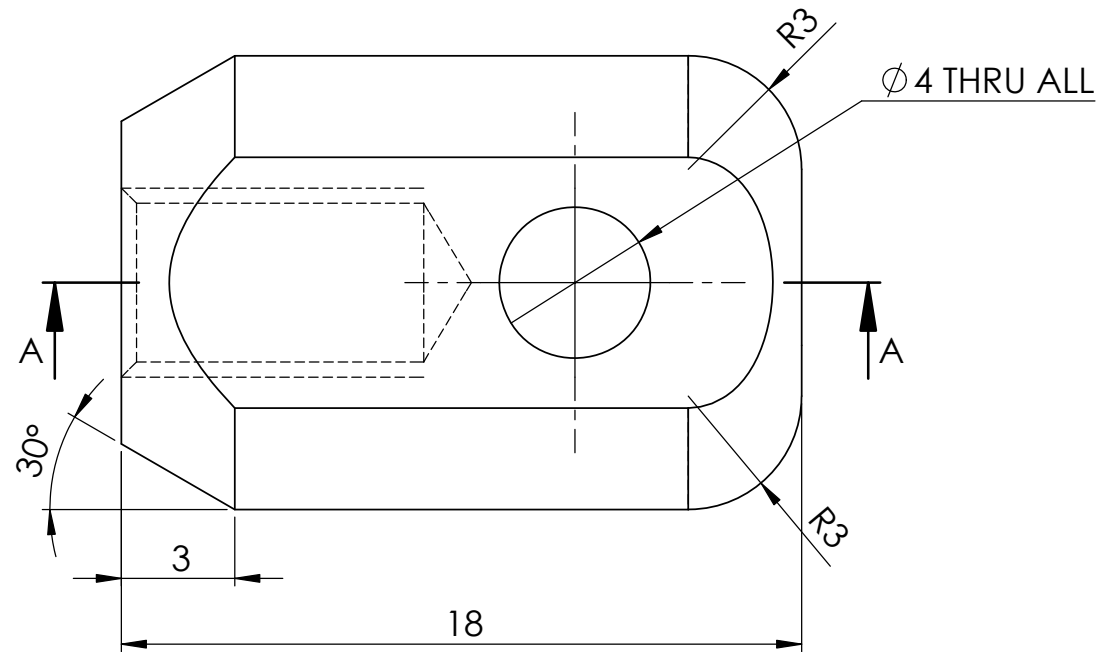
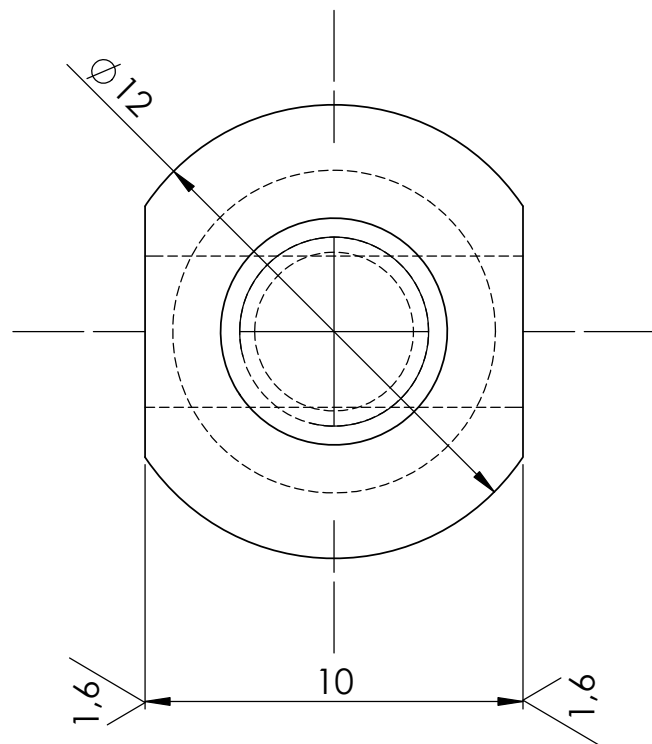
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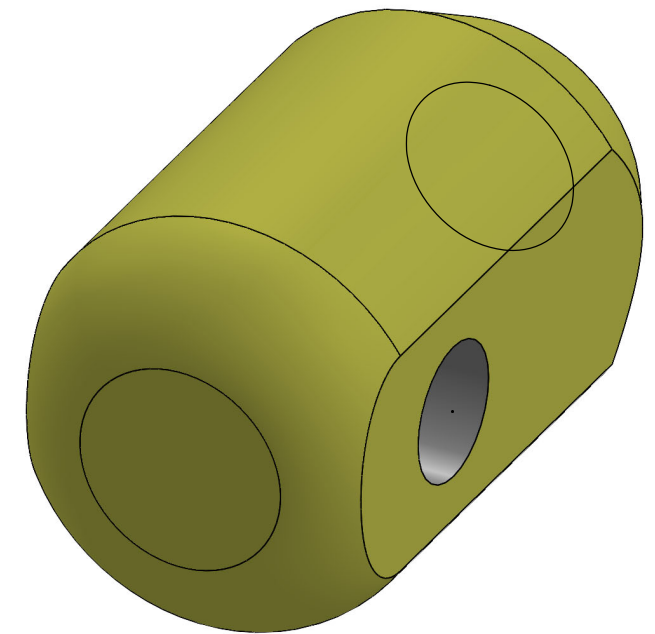
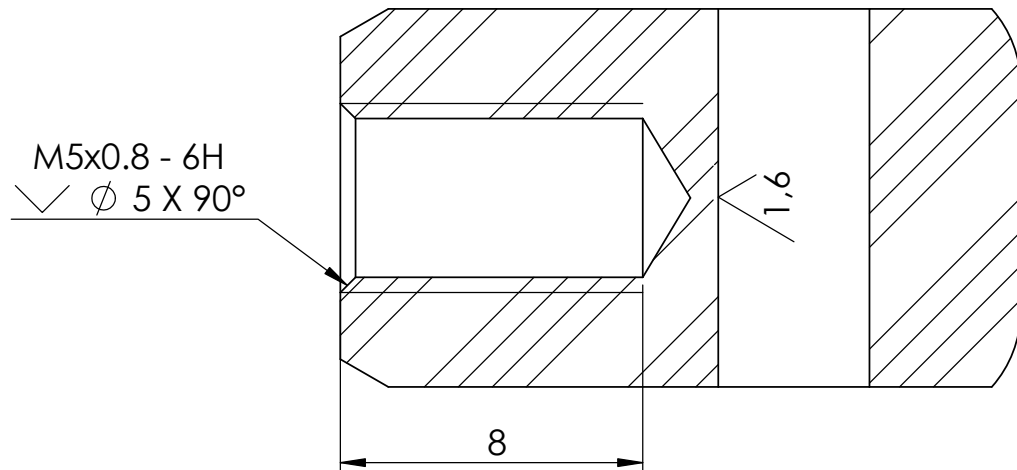
2

1

3,2 (✓)



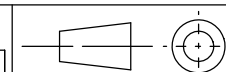
SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight:  
12.101 g

MATERIAL:  
Stainless Steel AISI 304

Scale:  
5:1

Creation Date:  
20-11-2023

Drawing Name:  
**14-11-23P012 -  
Connecting Rod  
Head**

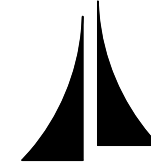
Created By:  
Skye Hempel

Approved By:  
-

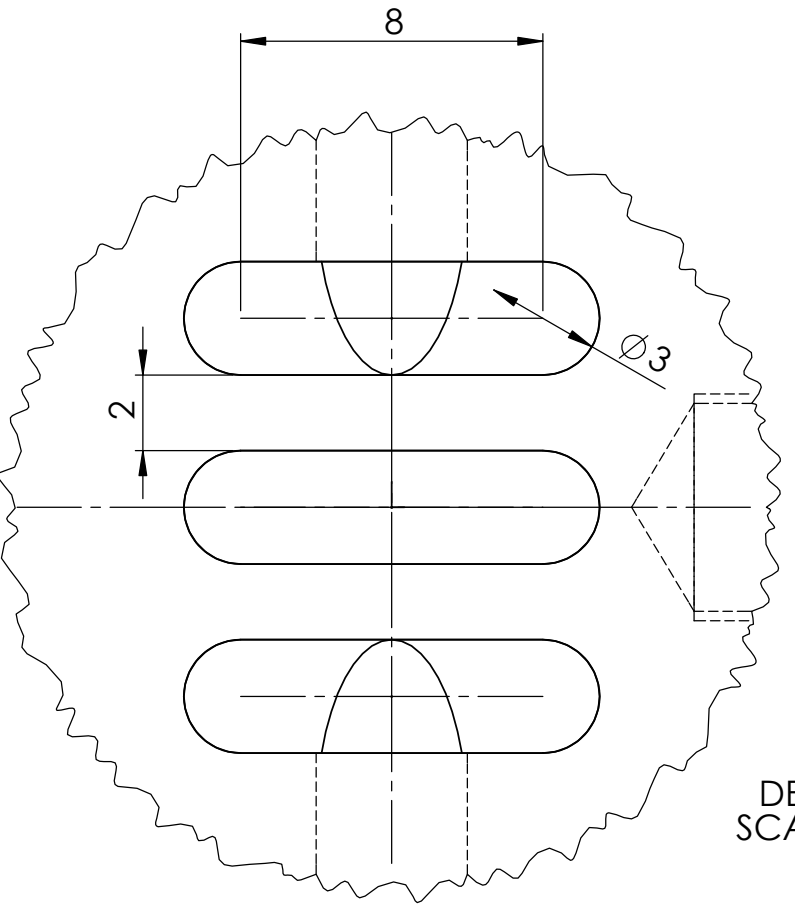
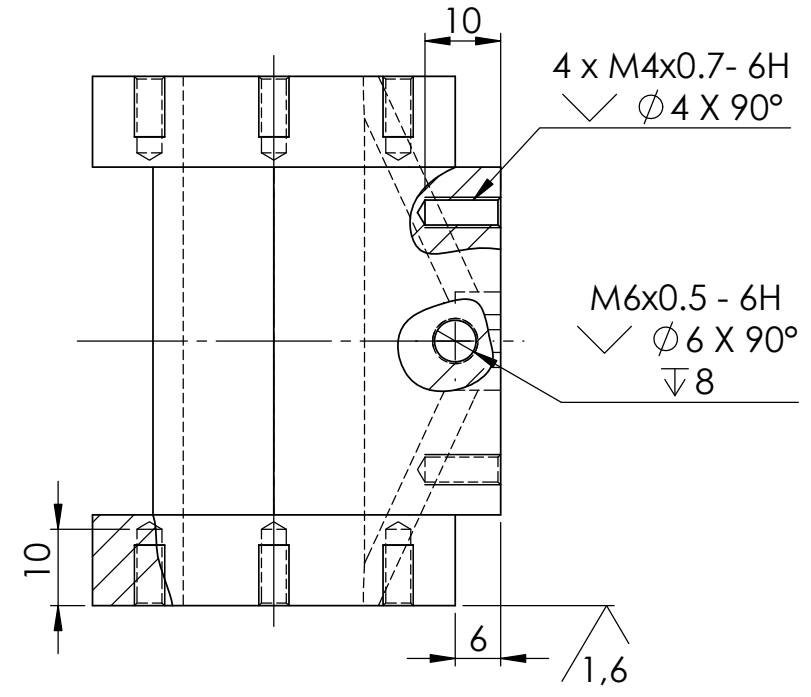
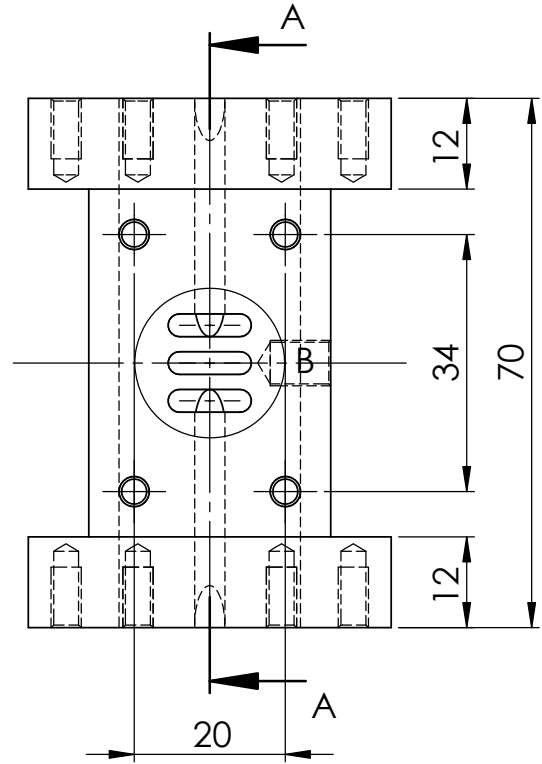
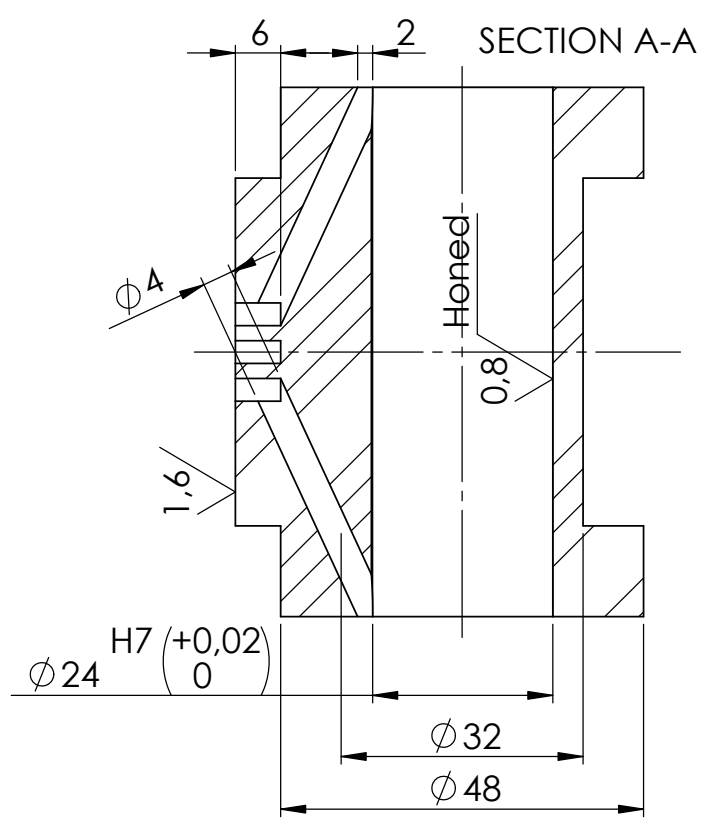
Project Name:  
Dobbelt Dampmaskine

Format: A3  
Revision: 1  
Sheet: 1 OF 1

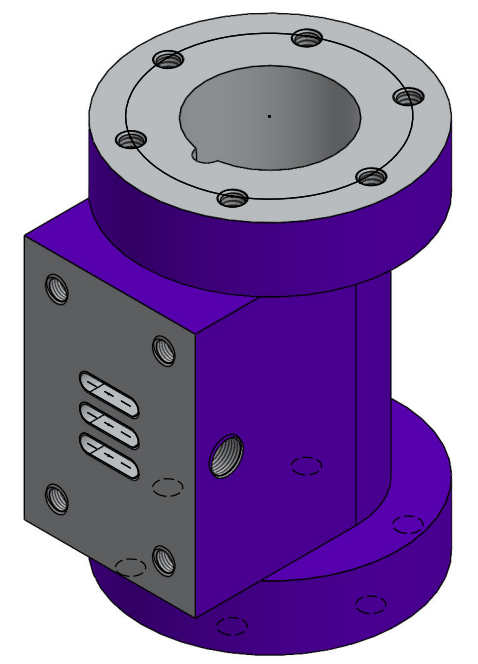
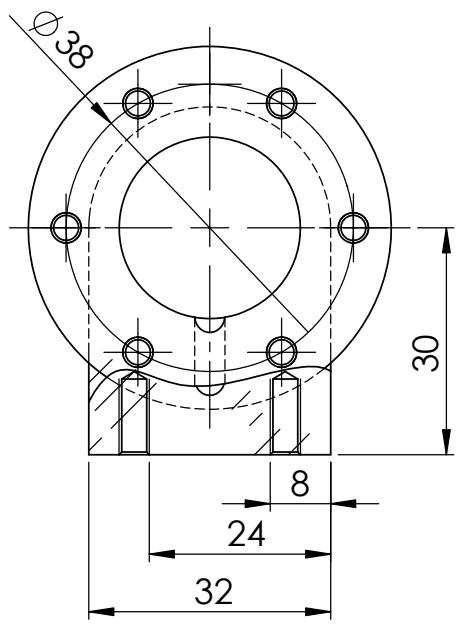
Roskilde  
Tekniske  
Skole



3,2 (✓)



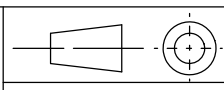
DETAIL B SCALE 5 : 1



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	---	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 72.892 g

MATERIAL: Aluminum-6061

Scale: 1:1

Creation Date: 21-11-2023

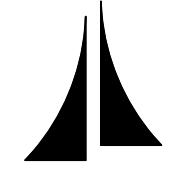
Drawing Name:

Created By: Skye Hempel

14-11-23P013 - Cylinder

Approved By: -

Roskilde Tekniske Skole



Project Name: Dobbelt Dampmaskine

Format: A3

Revision: 1

Sheet: 1 OF 1

8

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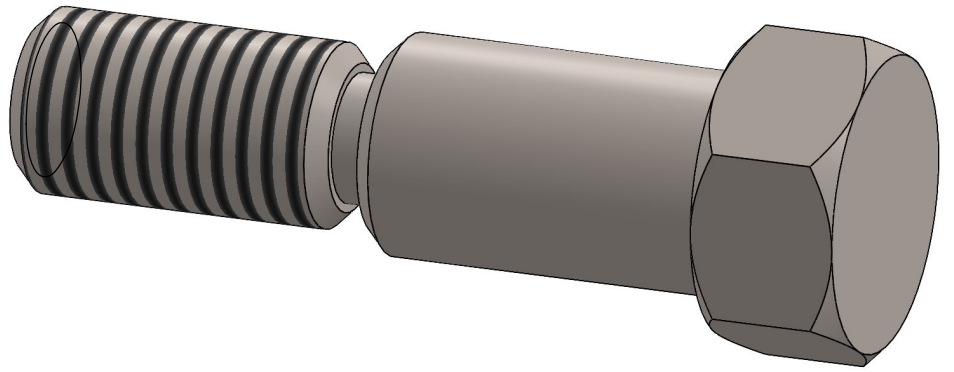
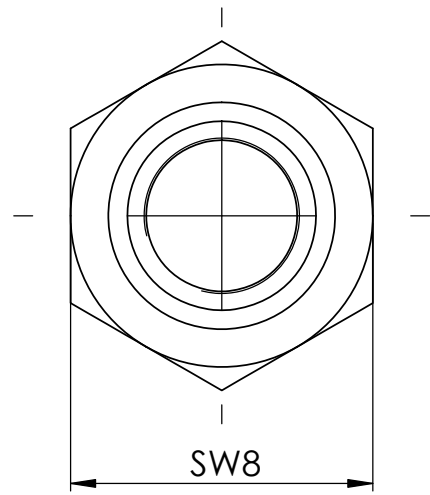
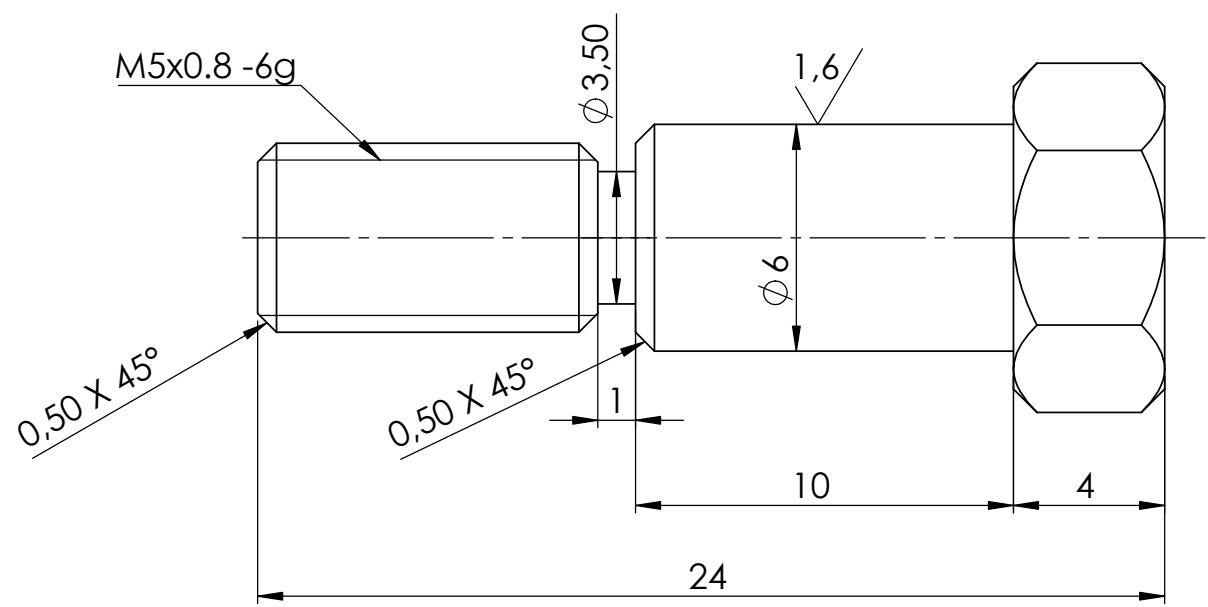
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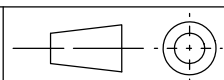
3,2



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 5.259 g

MATERIAL: Alloy Steel

Scale: 5:1

Creation Date: 23-11-2023

Drawing Name: 14-11-23P014 - Crank Screw

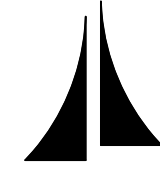
Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine

Format: A3, Revision: 1, Sheet: 1 OF 1

Roskilde Tekniske Skole



5

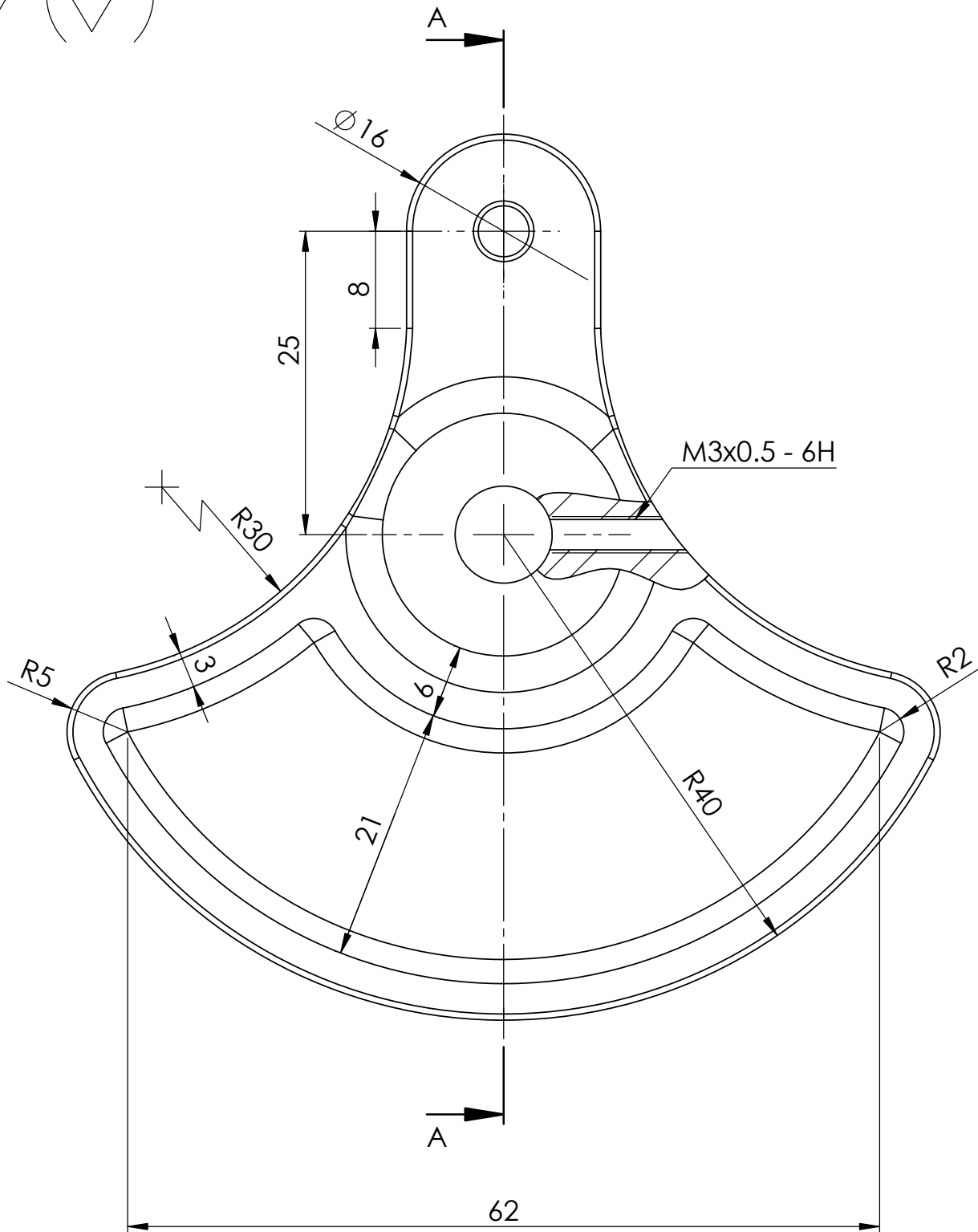
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3

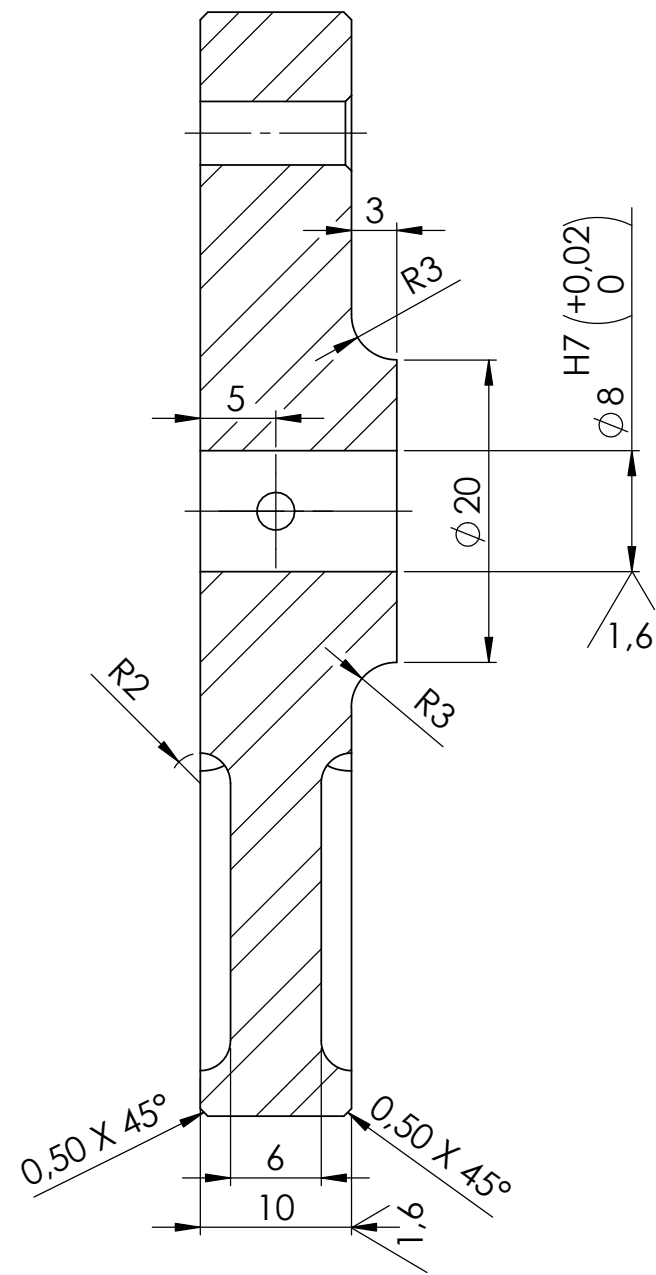
2

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3,2 (✓)



SECTION A-A

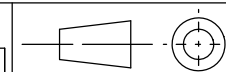
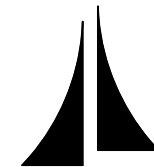


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	$\pm 0,05$	$\pm 0,05$	$\pm 0,1$	$\pm 0,15$	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$
m	$\pm 0,1$	$\pm 0,1$	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$	$\pm 0,8$	$\pm 1,2$
C	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$	$\pm 0,8$	$\pm 1,2$	$\pm 2$	$\pm 3$
V	-	$\pm 0,5$	$\pm 1$	$\pm 1,5$	$\pm 2,5$	$\pm 4$	$\pm 6$

Roskilde  
Tekniske  
Skole



Weight:  
169.277 g

MATERIAL:  
Plain Carbon Steel

Scale:  
2:1

Creation Date:  
23-11-2023

Drawing Name:

14-11-23P015 -  
Crank

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Format:  
A3

Revision:  
1

Sheet:  
1 OF 1

8

7

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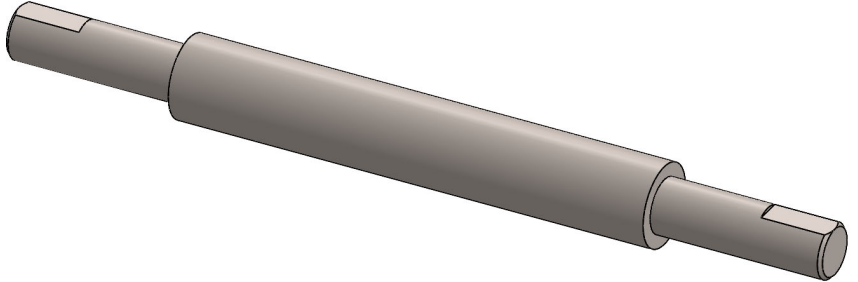
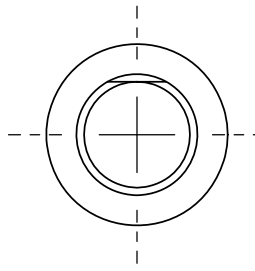
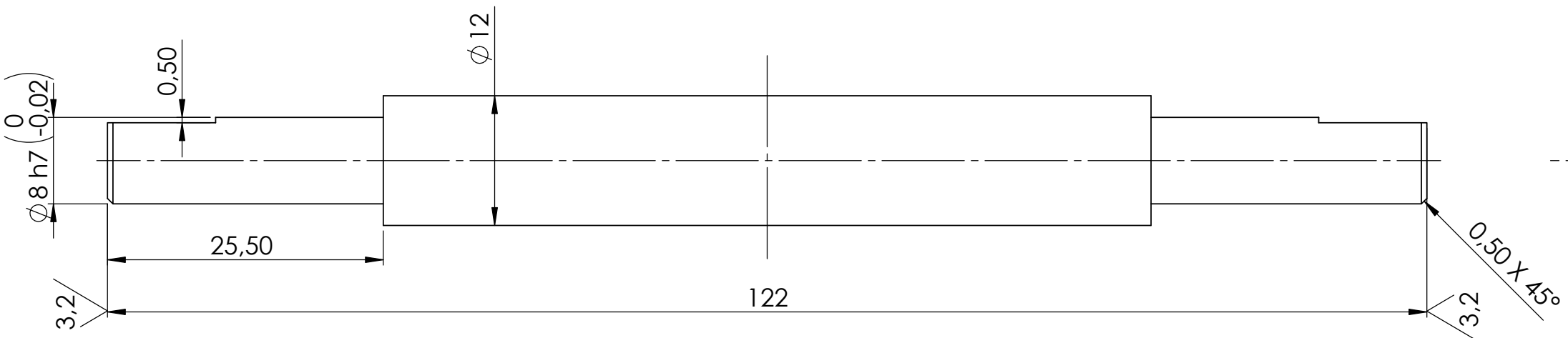
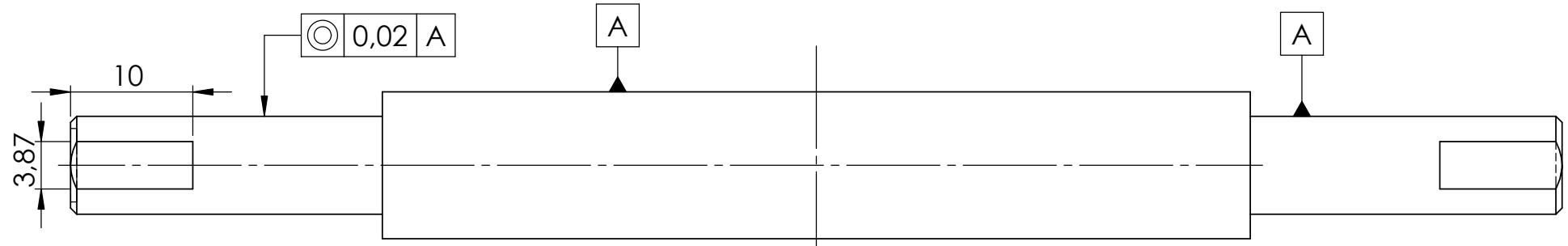
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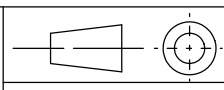
1



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 84.496 g  
 MATERIAL: Stainless Steel AISI 304  
 Scale: 2:1

Creation Date: 23-11-2023

Drawing Name: 14-11-23P016 - Crankshaft

Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1



5

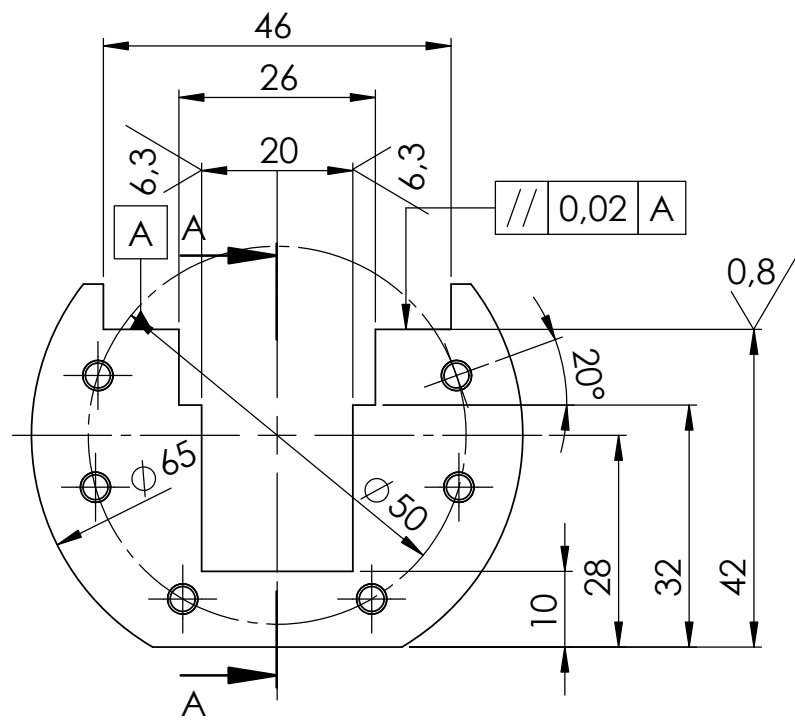
4

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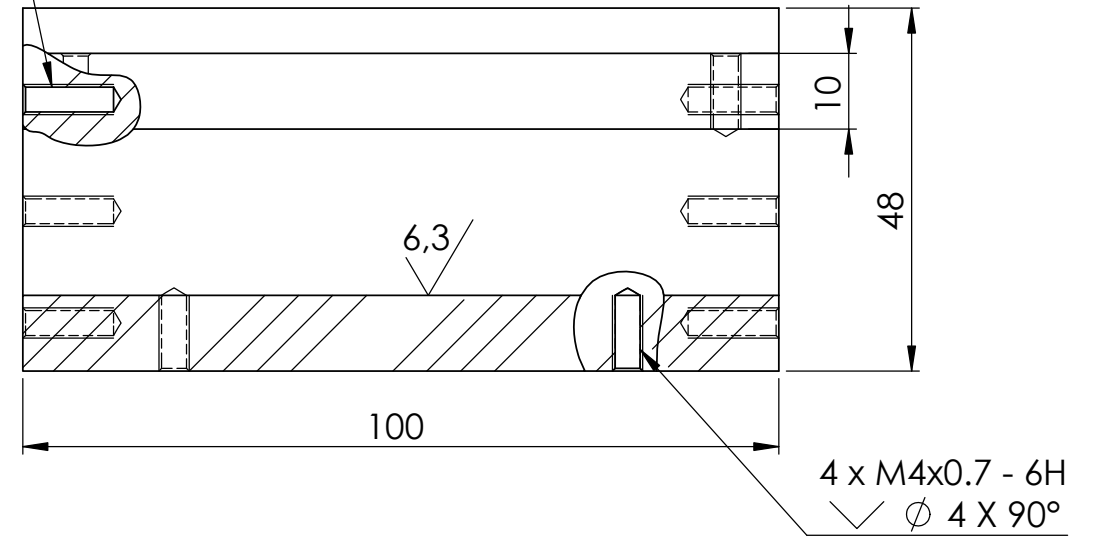
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1,6

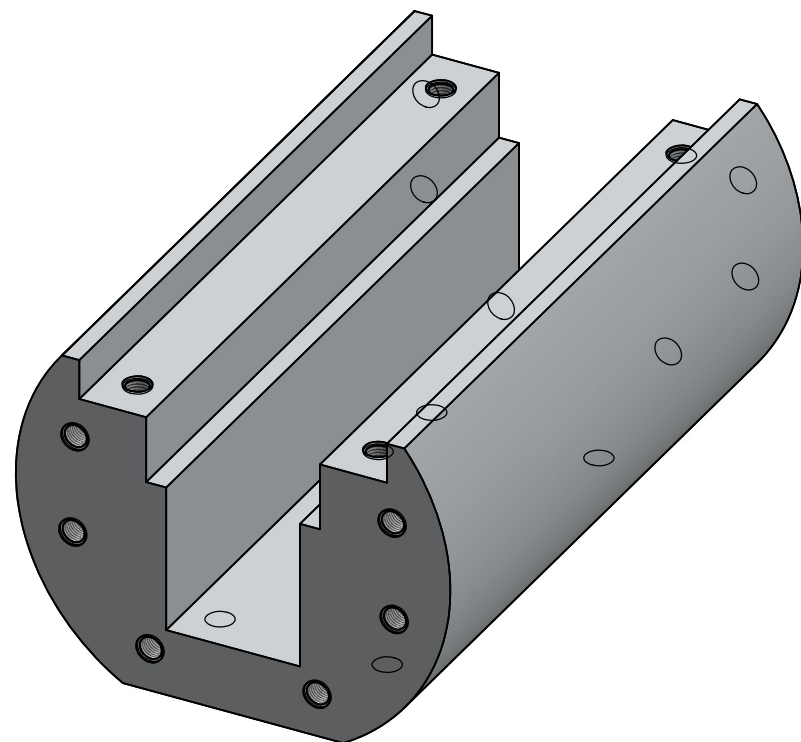
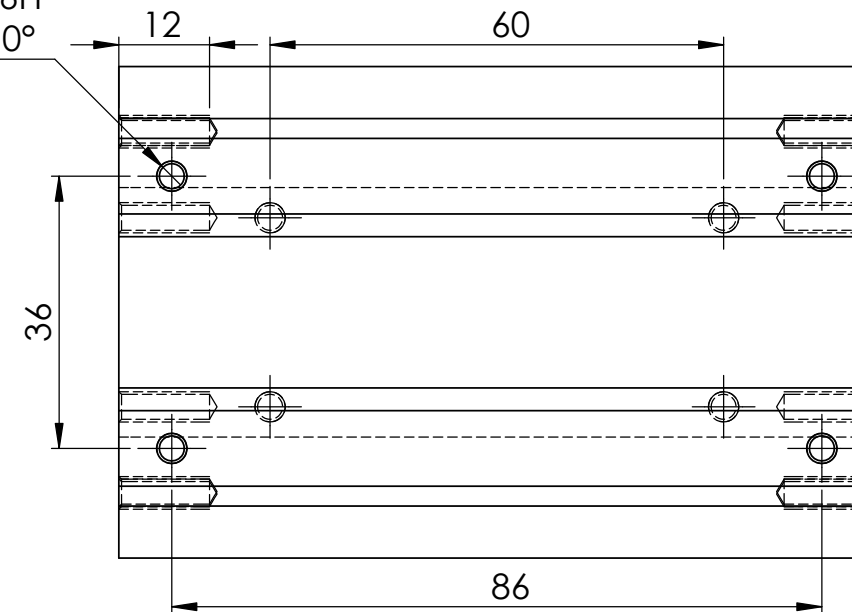


12 x M4x0.7 - 6H  
 $\sphericalangle \phi 4 \times 90^\circ$

SECTION A-A



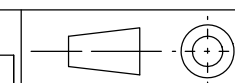
4 x M4x0.7 - 6H  
 $\sphericalangle \phi 4 \times 90^\circ$



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	---	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 181.085 g  
 MATERIAL: Aluminum-6061  
 Scale: 1:1

Creation Date: 27-11-2023

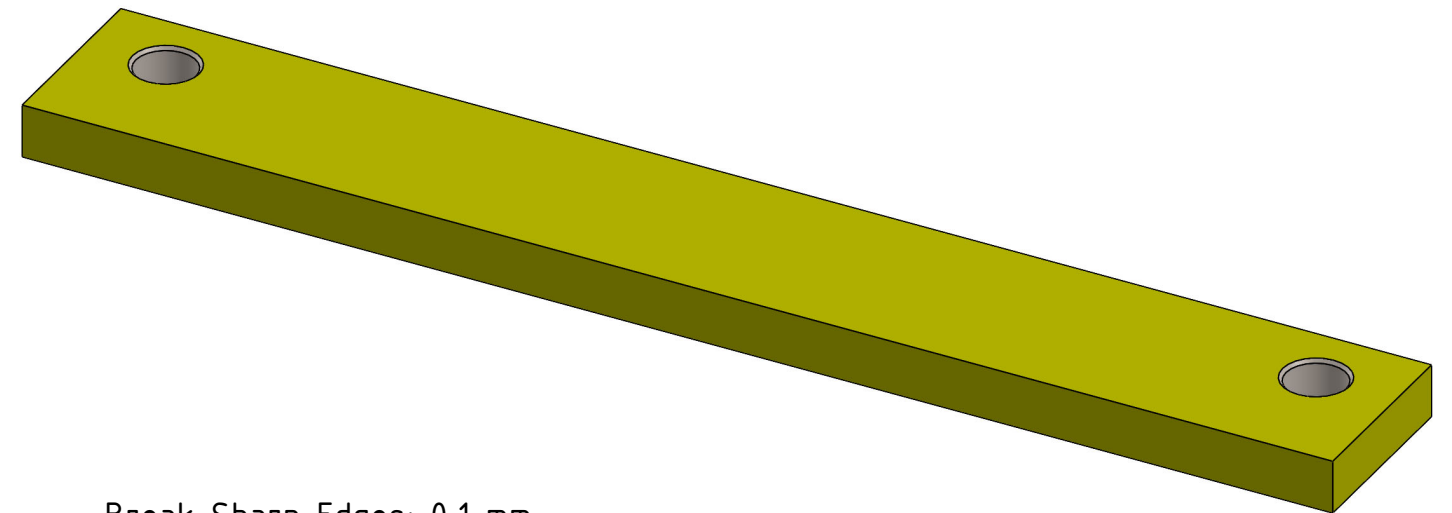
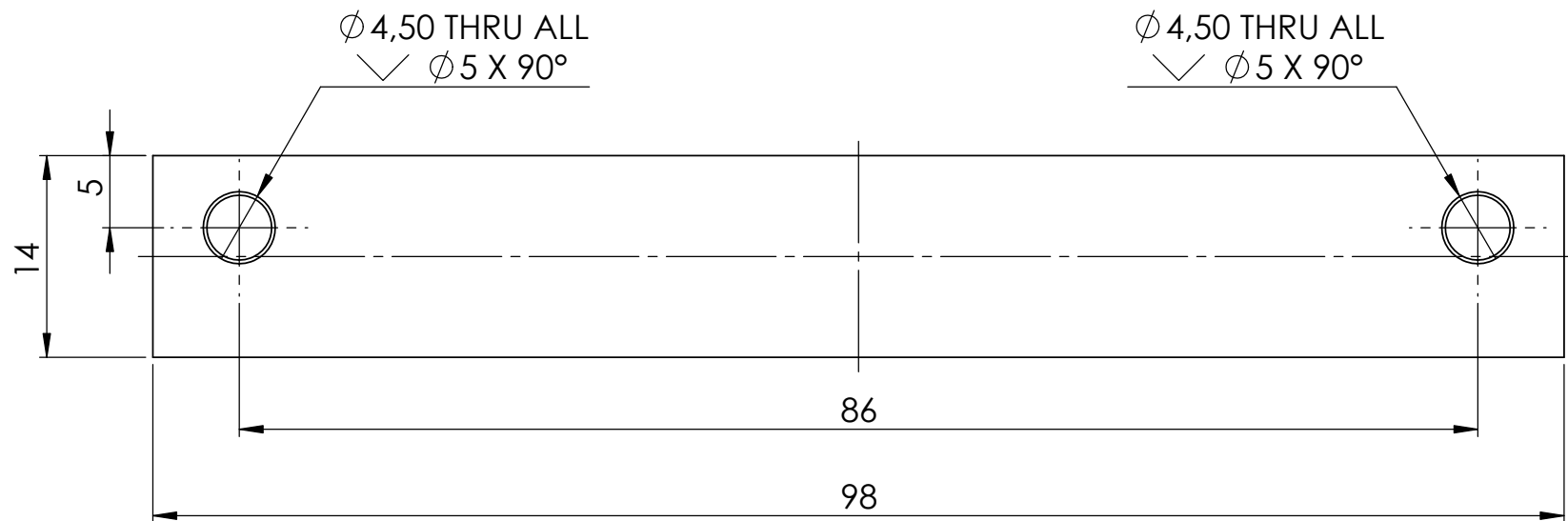
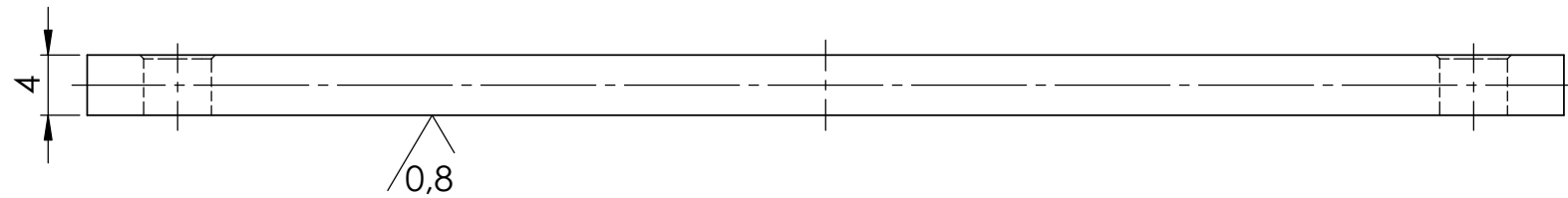
Drawing Name: 14-11-23P017.1 - Crosshead Container

Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

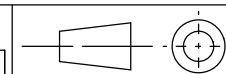
3.2 (✓)



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6



Weight: 42.879 g  
 MATERIAL: Stainless Steel AISI 304  
 Scale: 2:1

Creation Date: 28-11-2023

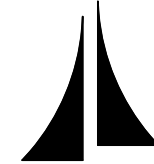
Drawing Name: 14-11-23P017.2 - Crosshead Guide Plate

Created By: Skye Hempel

Approved By: -

Project Name: Dobbelt Dampmaskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

Roskilde  
 Tekniske  
 Skole



8

7

6

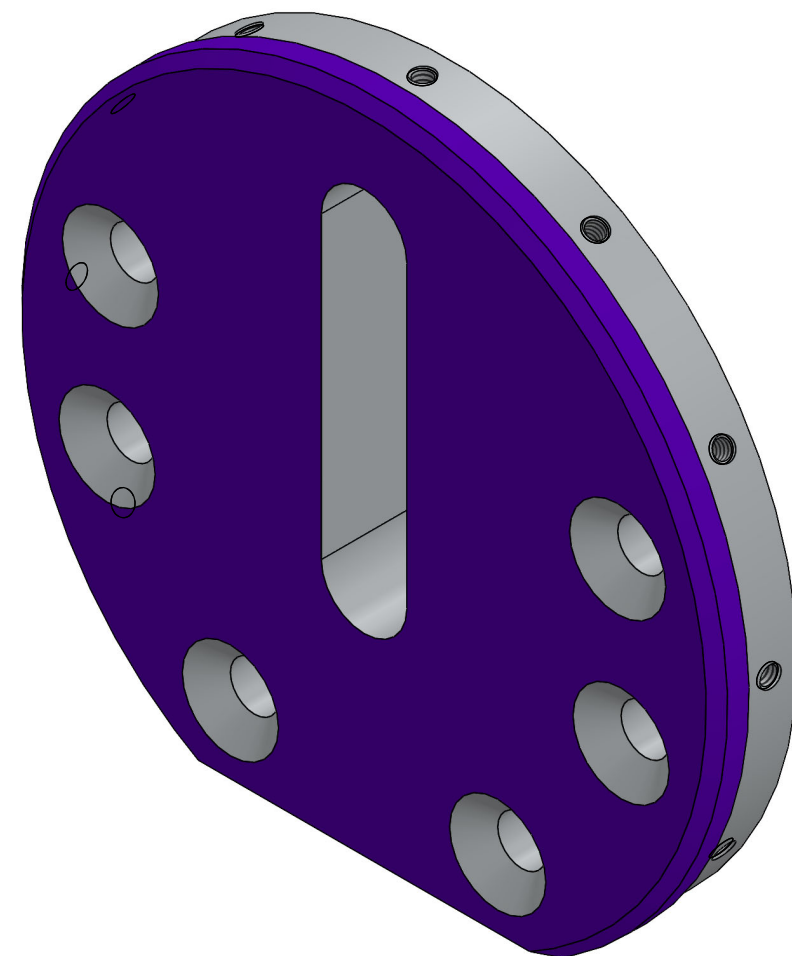
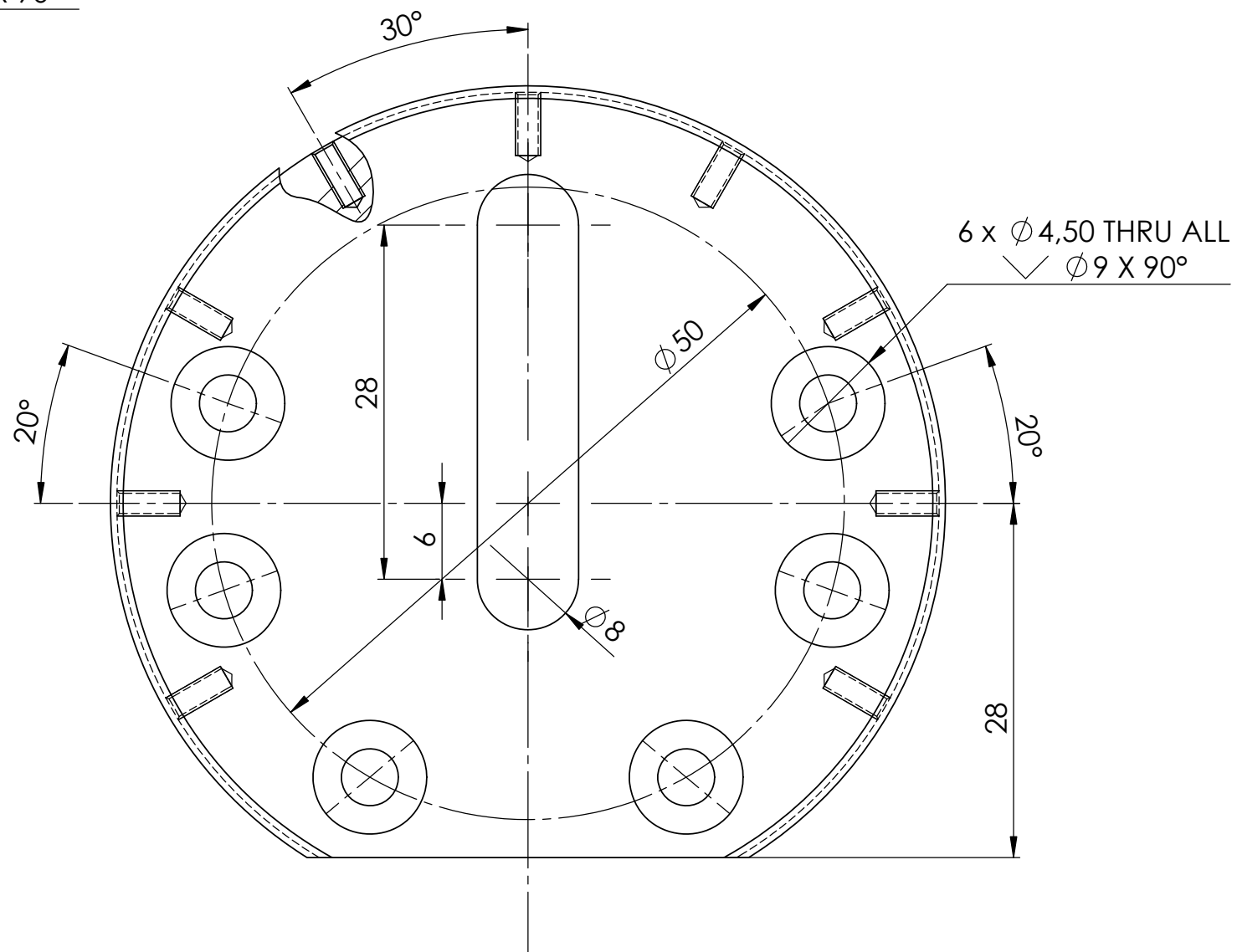
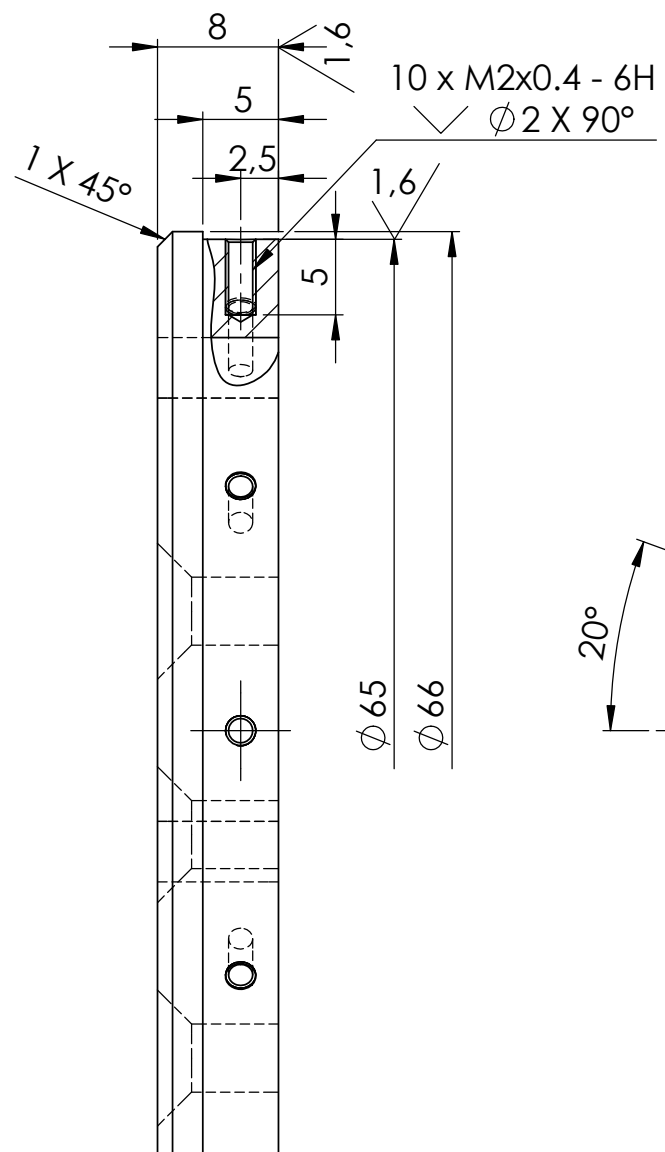
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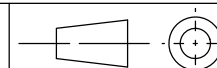


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
23.026 g

MATERIAL:  
Aluminum-6061

Scale:  
2:1

Drawing Name:  
**14-11-23P017.3 -  
Crosshead  
Container Flange  
Crank**

Format: A3  
Revision: 1  
Sheet: 1 OF 1

5

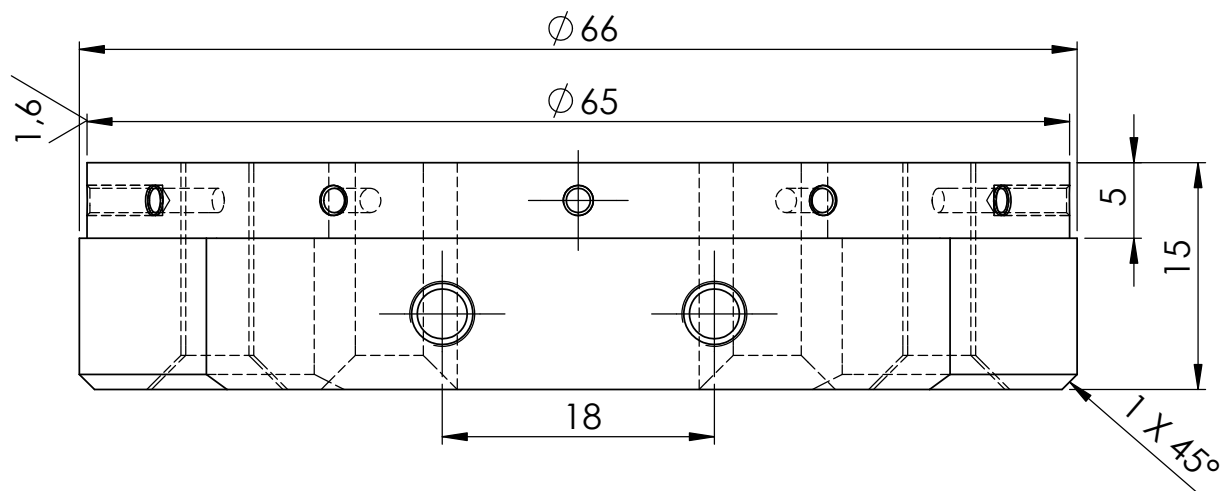
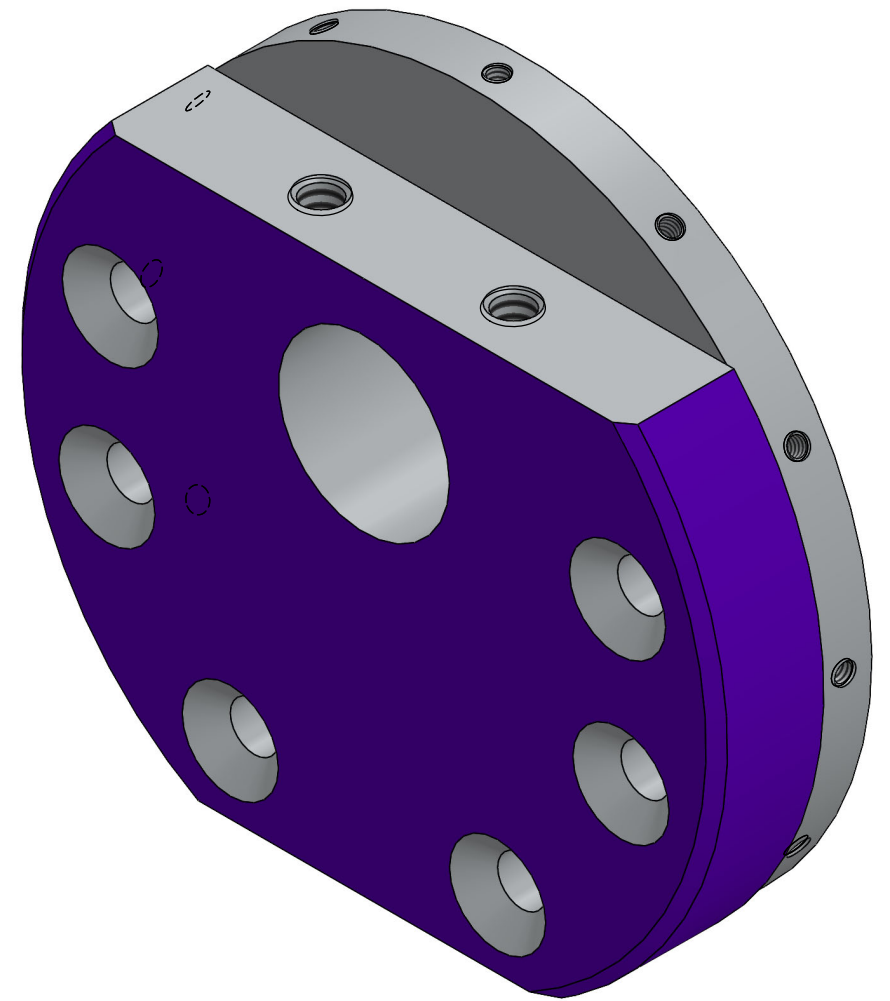
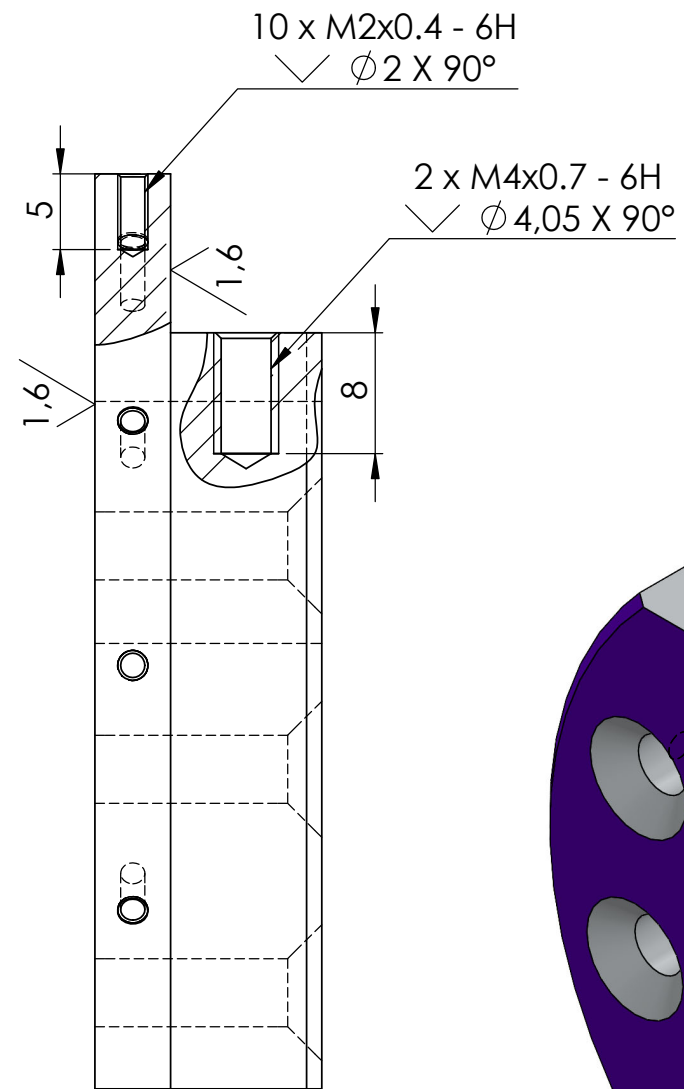
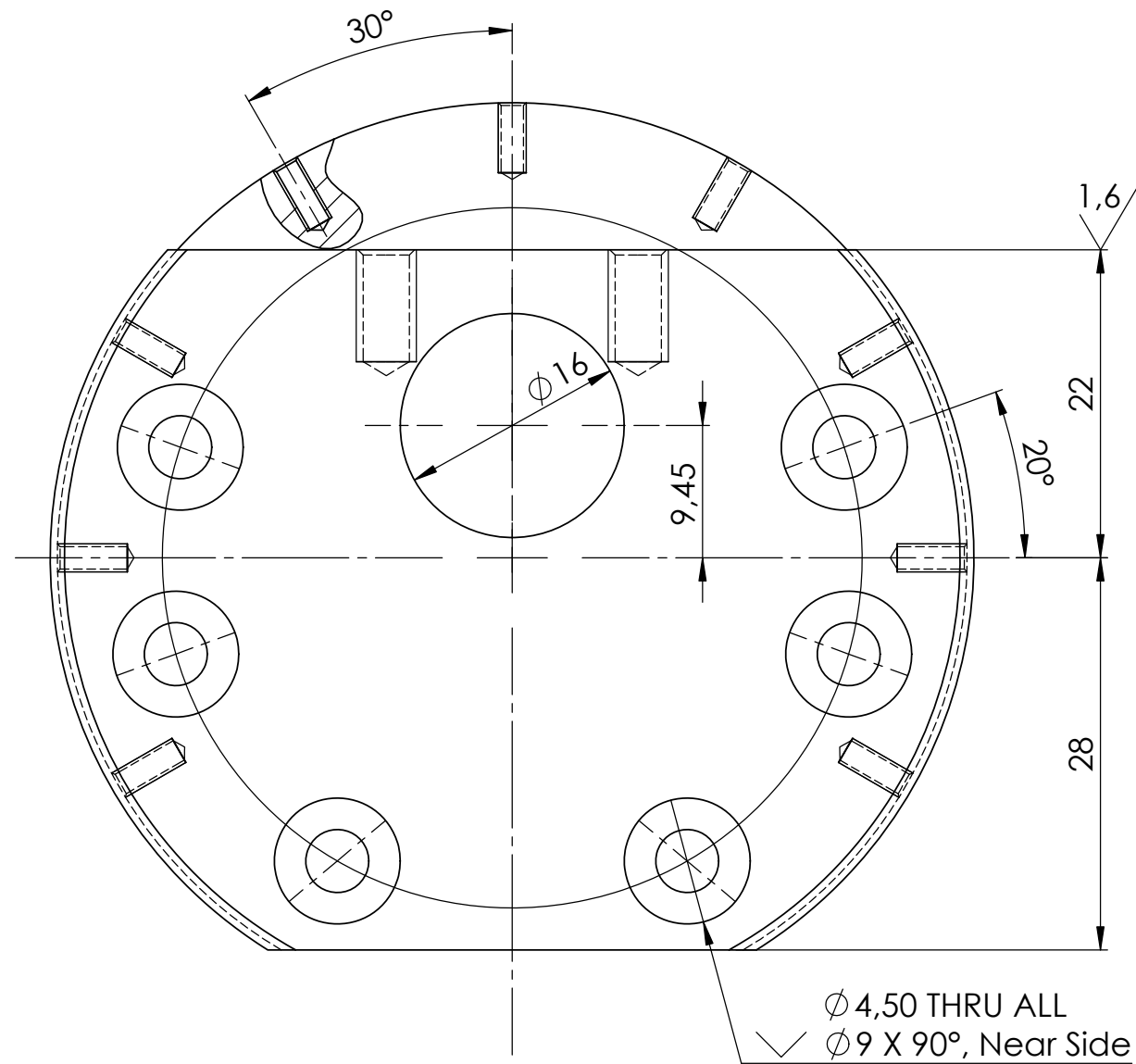
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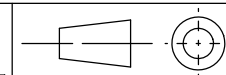
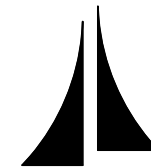
3,2 (✓)



All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	$\pm 0,05$	$\pm 0,05$	$\pm 0,1$	$\pm 0,15$	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$
m	$\pm 0,1$	$\pm 0,1$	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$	$\pm 0,8$	$\pm 1,2$
C	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$	$\pm 0,8$	$\pm 1,2$	$\pm 2$	$\pm 3$
V	--	$\pm 0,5$	$\pm 1$	$\pm 1,5$	$\pm 2,5$	$\pm 4$	$\pm 6$

Roskilde  
Tekniske  
Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaksine

Weight:  
41.147 g

MATERIAL:  
Aluminum-6061

Scale:  
2:1

Drawing Name:  
**14-11-23P017.4 -  
Crosshead  
Container Flange  
Cylinder**

Format: A3  
Revision: 1  
Sheet: 1 OF 1

8

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F

E

D

C

B

A

F

E

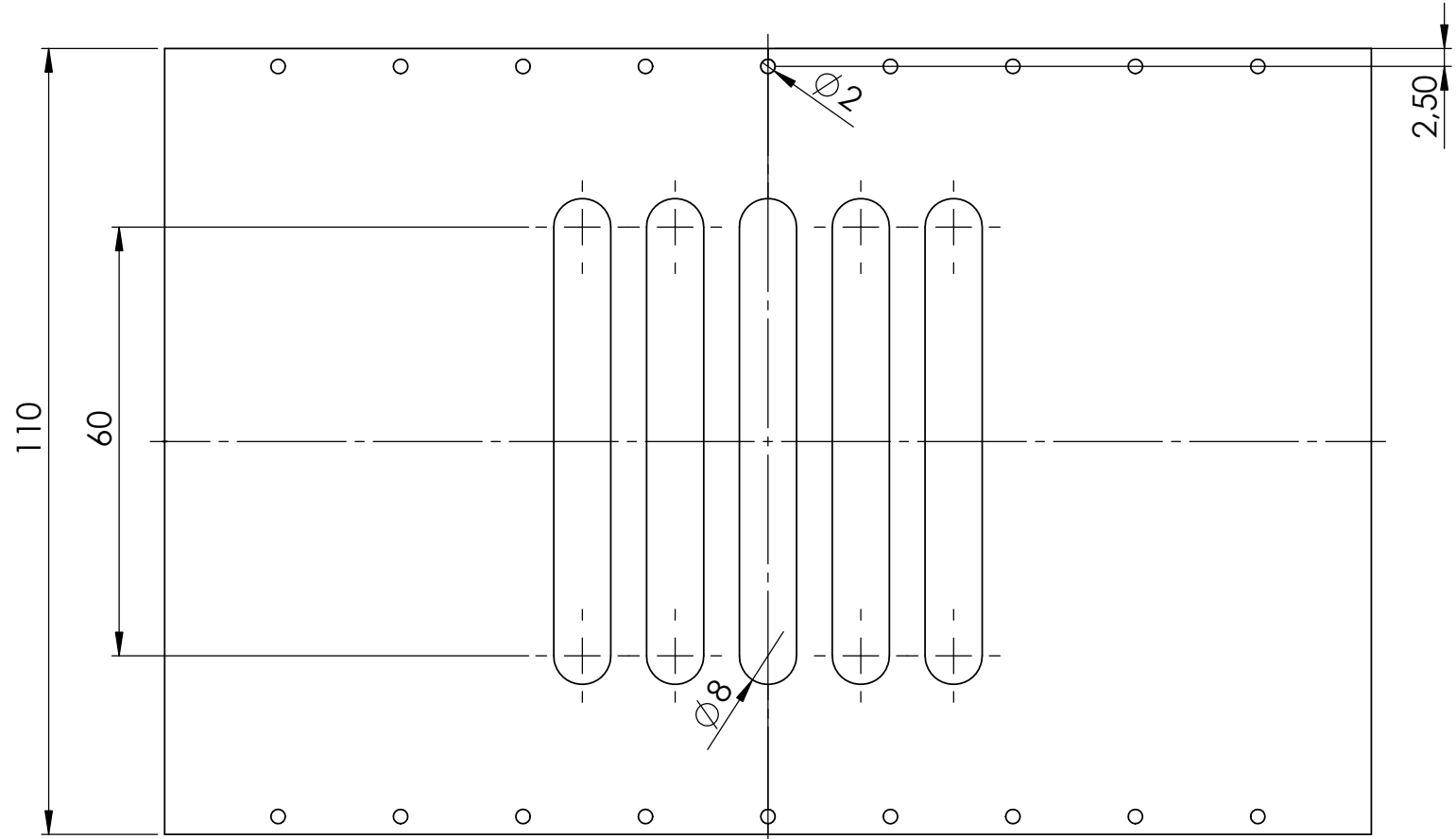
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C

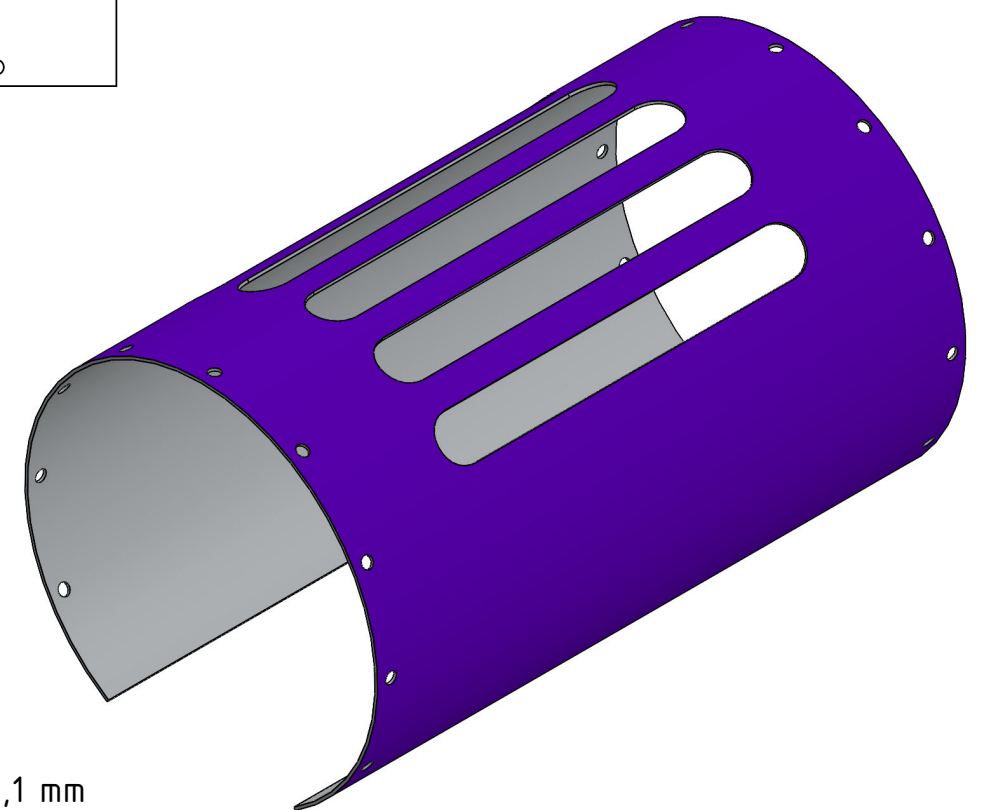
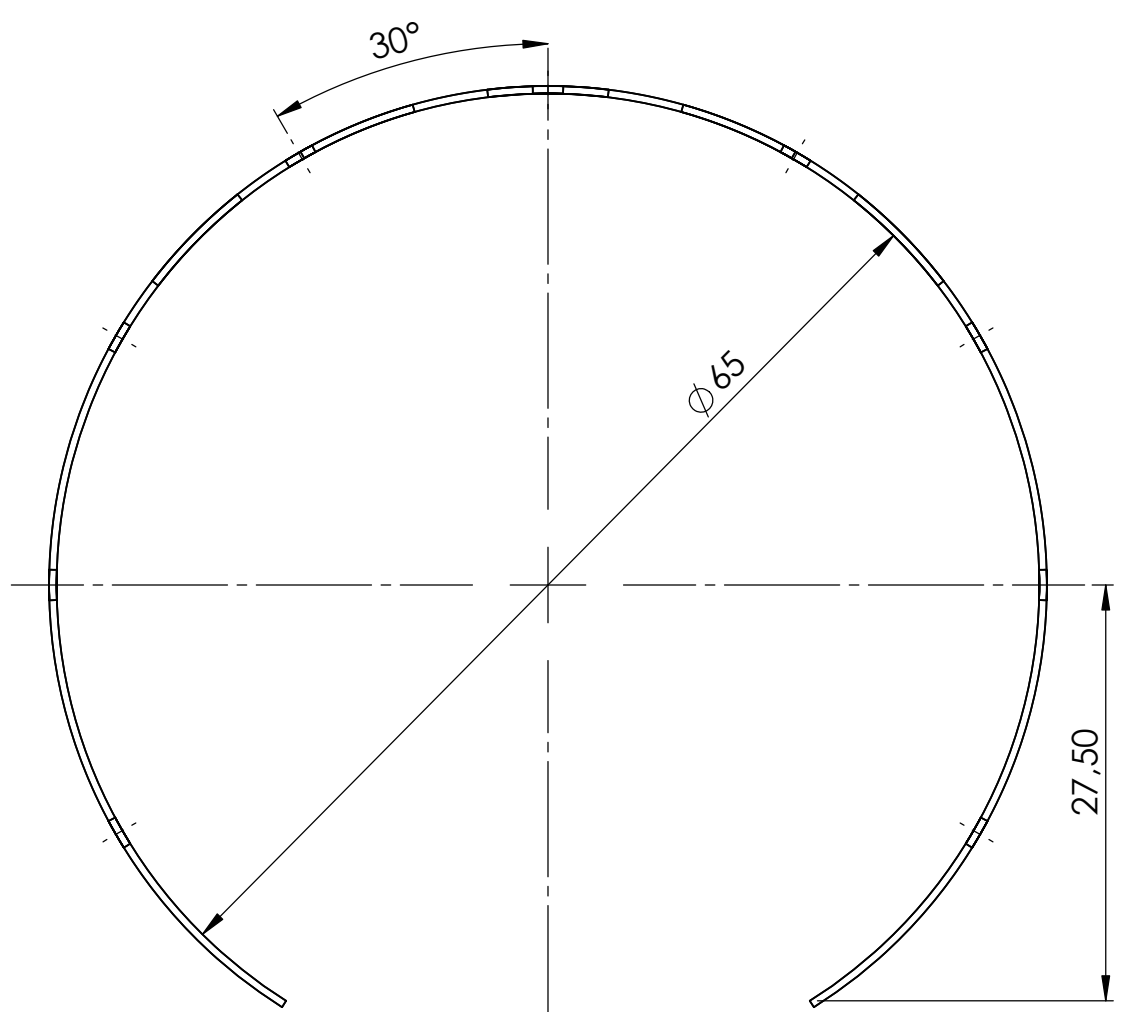
B

A

3,2



Thickness = 0,5mm



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
8,098 g

MATERIAL:  
Aluminum-6061

Scale:  
1:1

Drawing Name:  
14-11-23P017.5 -  
Crosshead  
Container Cover

Format: A3    Revision: 1    Sheet: 1 OF 1

5

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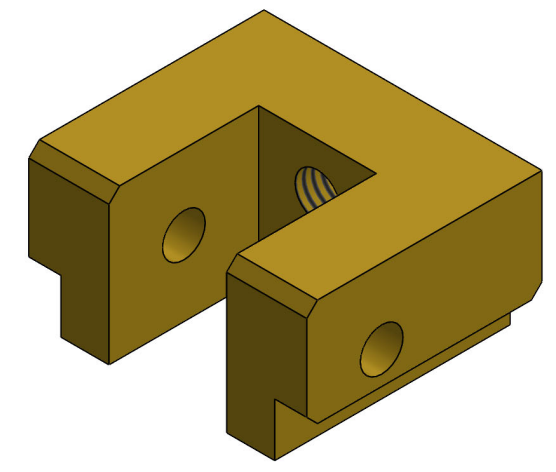
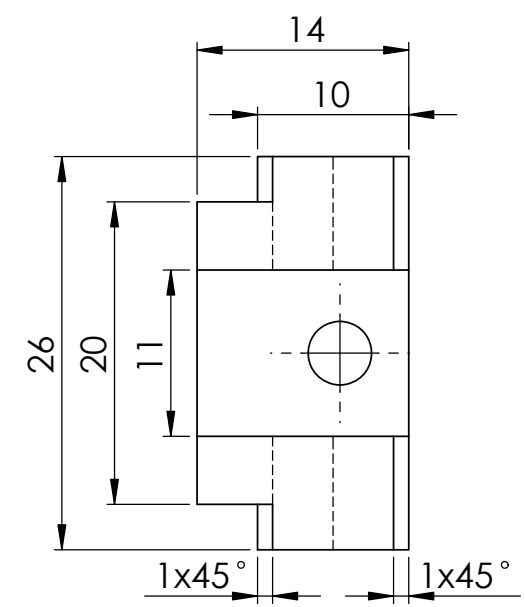
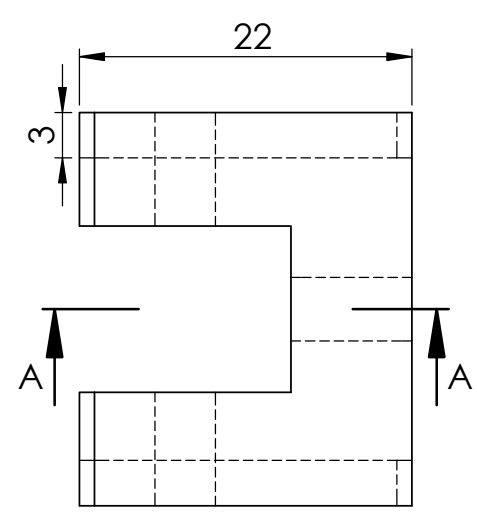
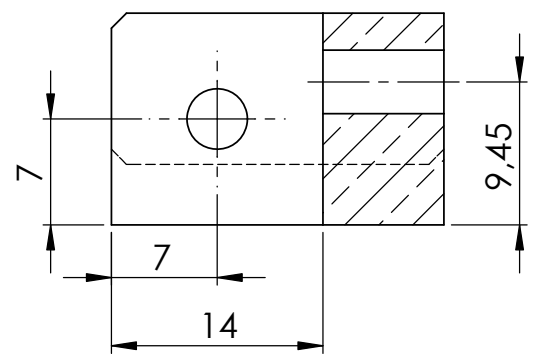
3

2

1

1,6

SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde Tekniske Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobblet Dampmaskine

Weight:  
42.595 g

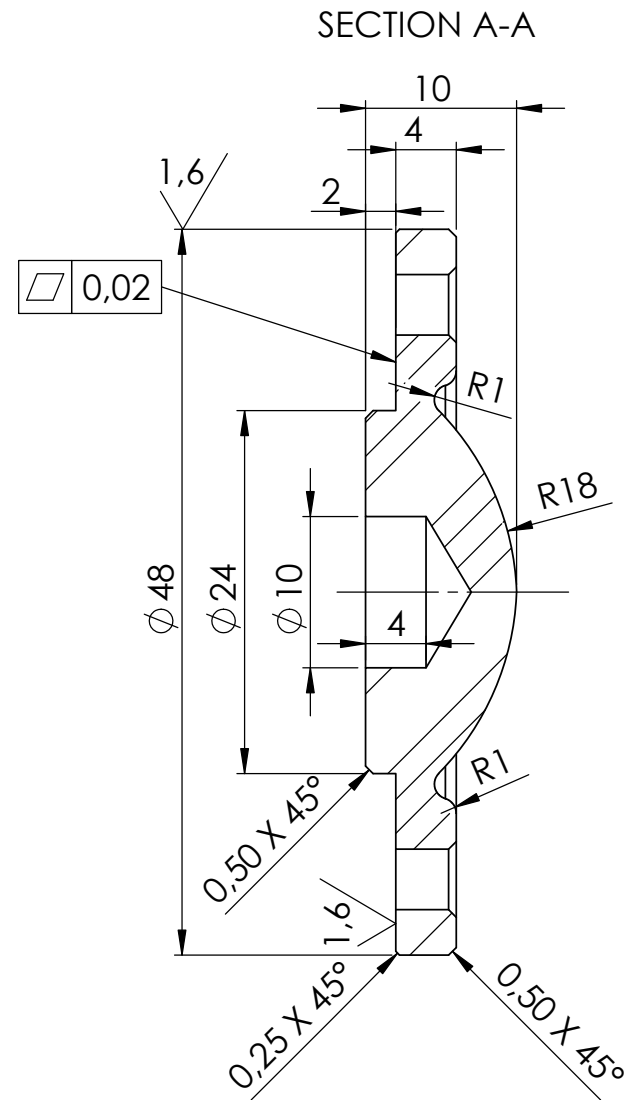
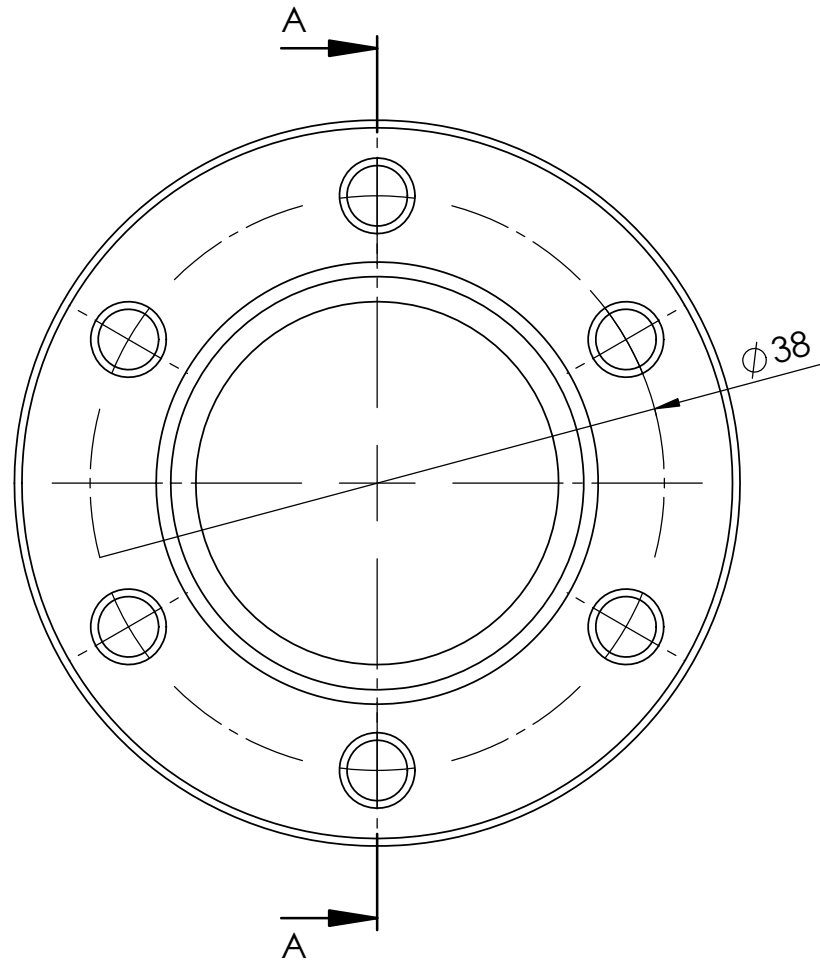
MATERIAL:  
Brass

Scale:  
2:1

Drawing Name:  
**14-11-23P018 - Crosshead**

Format: A3    Revision: 2    Sheet: 1 OF 1

3,2 (✓)

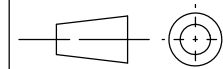
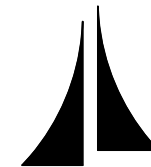


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
8.050 g

MATERIAL:  
Aluminum-6061

Scale:  
2:1

Drawing Name:  
**14-11-23P019 -  
Cylinder Head**

Format: A3  
Revision: 1  
Sheet: 1 OF 1

8

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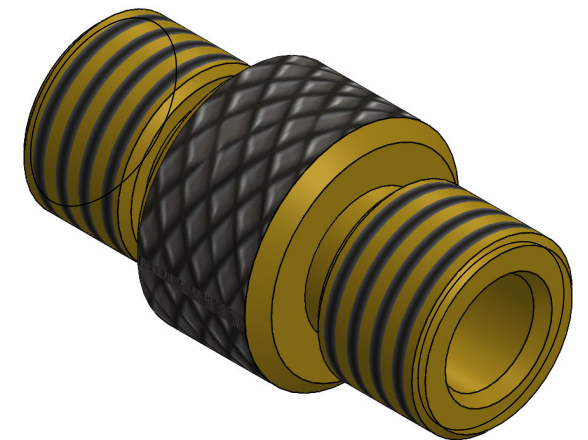
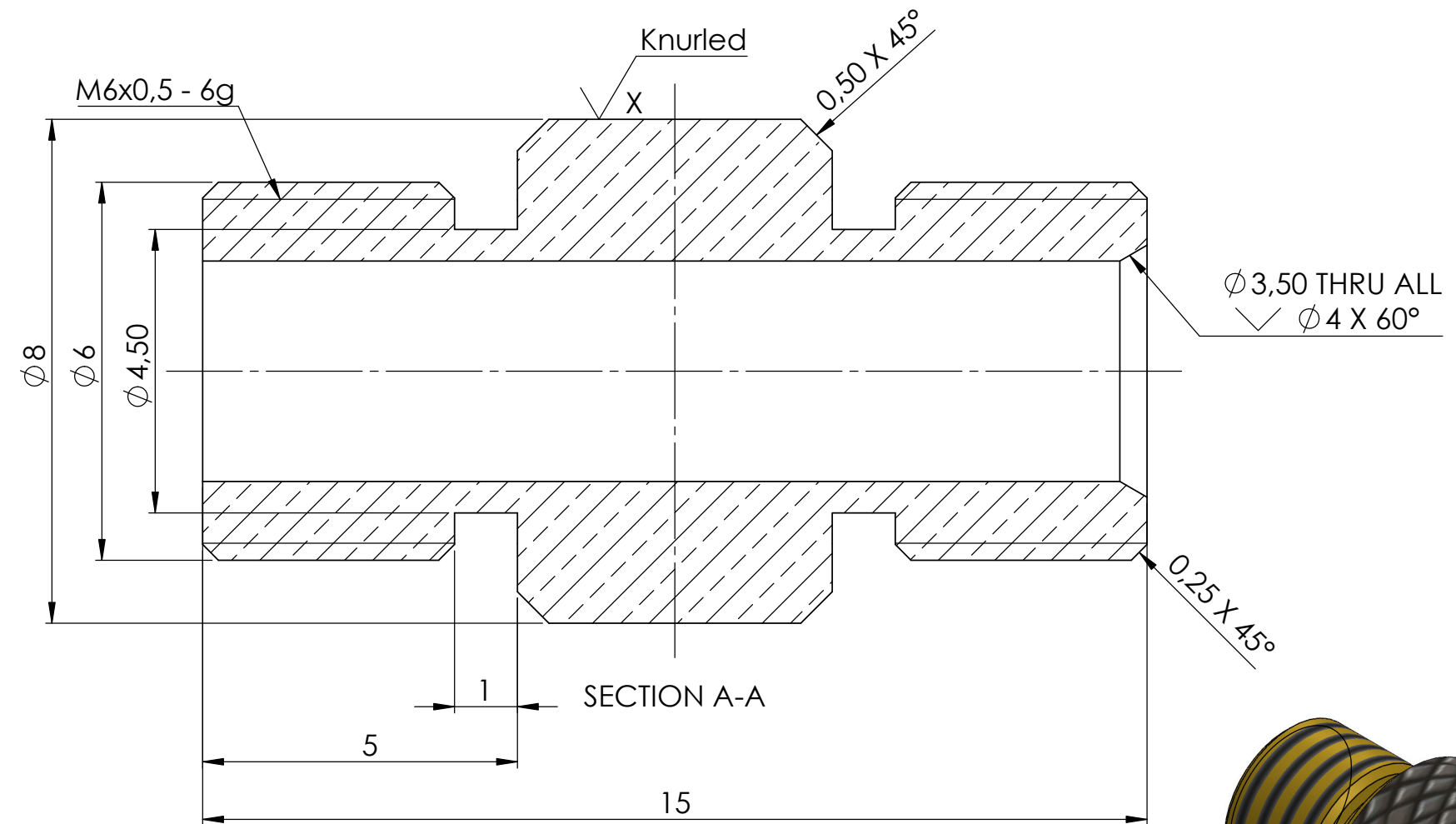
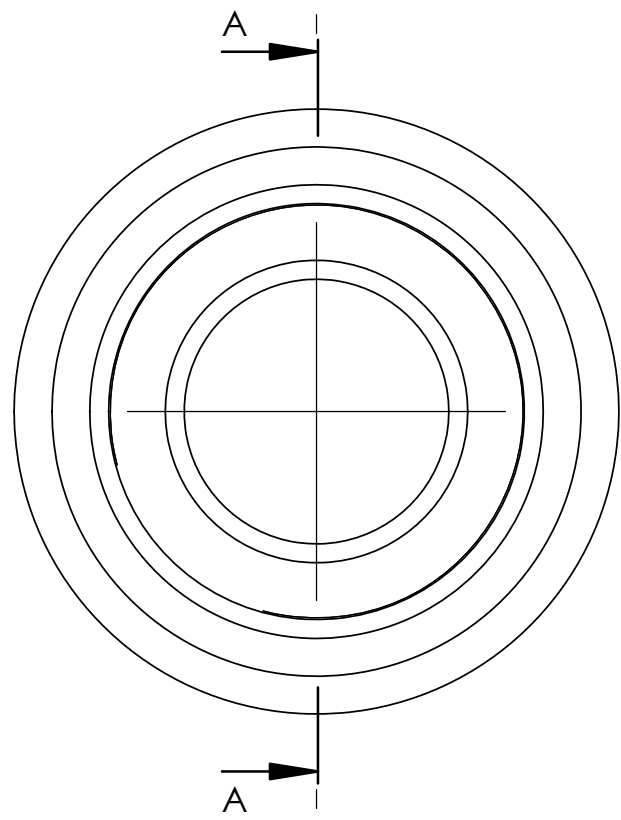
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1,6

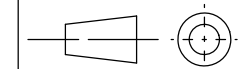
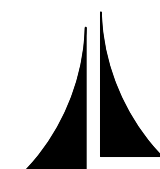


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
3,027 g

MATERIAL:  
Brass

Scale:  
10:1

Drawing Name:  
**14-11-23P020 -  
Cylinder Piping  
Connector M6x0,5**

Format: A3	Revision: 1	Sheet: 1 OF 1
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5

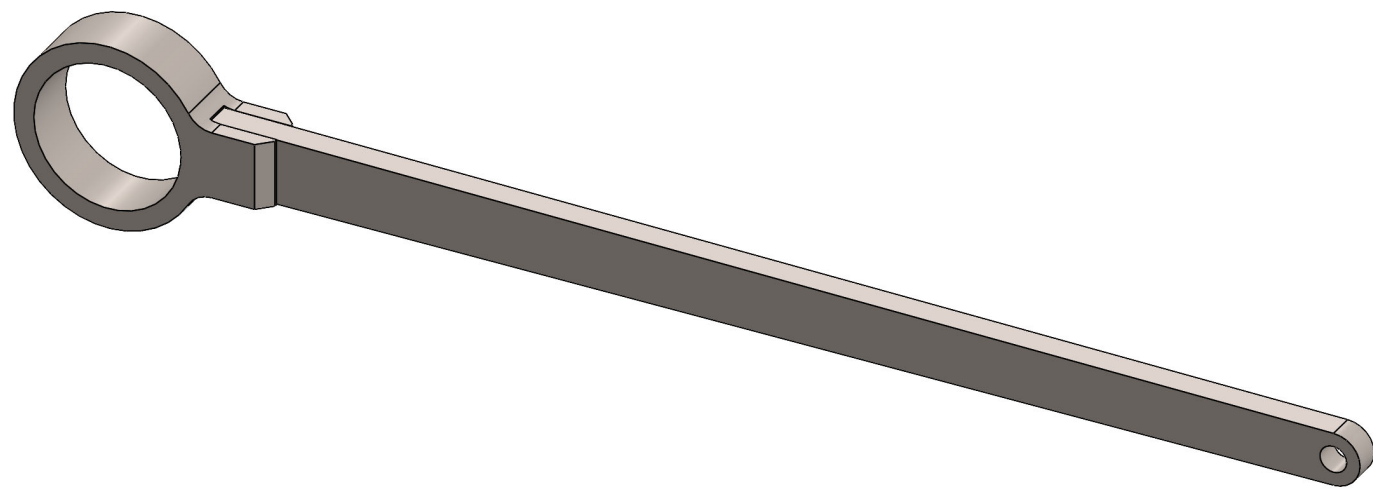
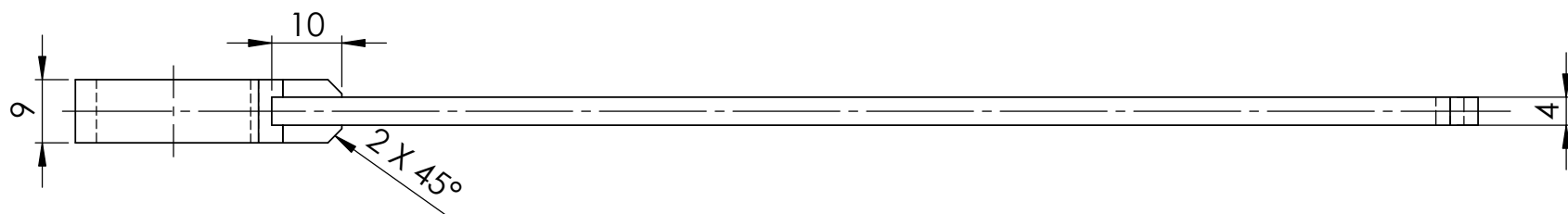
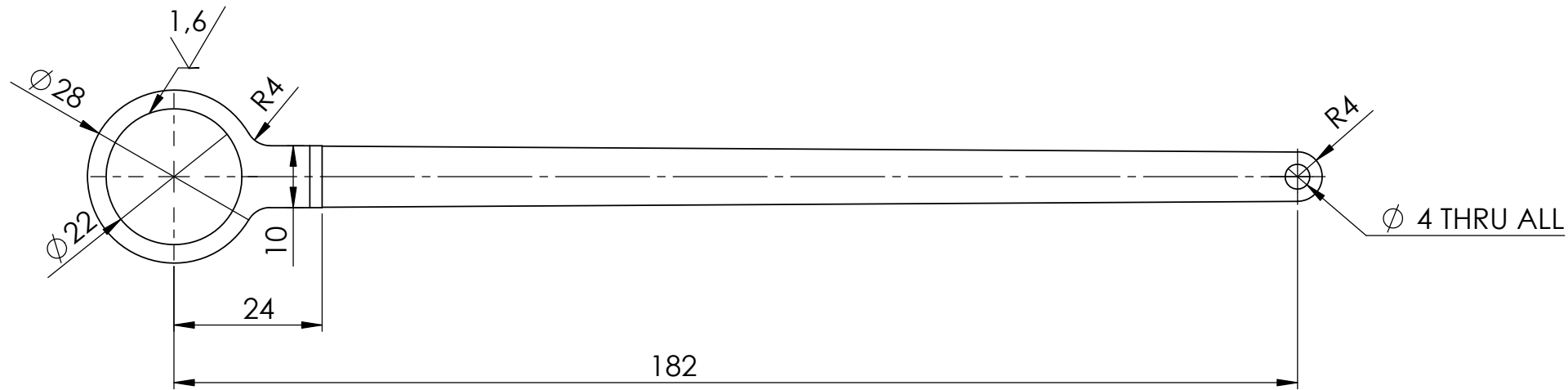
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3

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3,2 (✓)

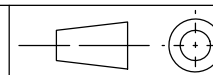


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde Tekniske Skole

Creation Date:  
11-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Weight: 67.166 g

MATERIAL: Alloy Steel

Scale: 1:1

Drawing Name:  
**14-11-23P021 - Eccentric Trap**

Project Name: Dobbelt Dampmaskine

Format: A3

Revision: 1

Sheet: 1 OF 1

8

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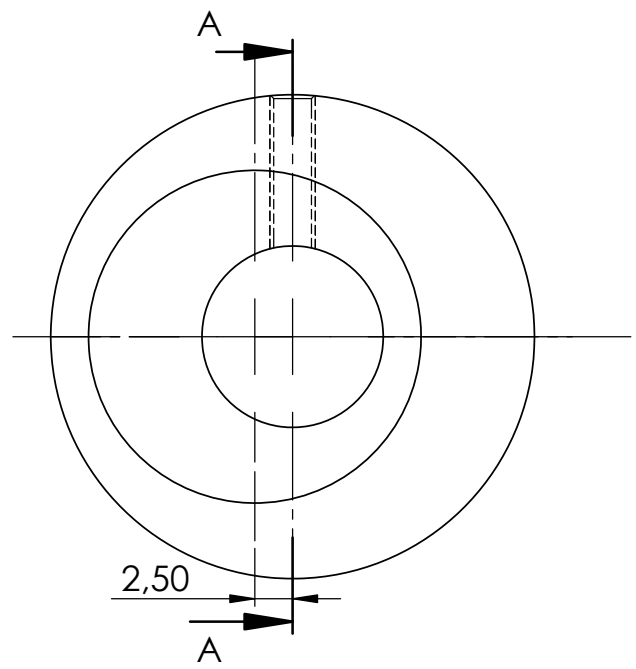
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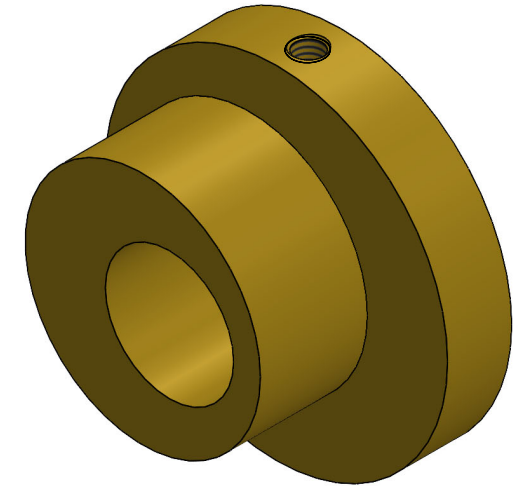
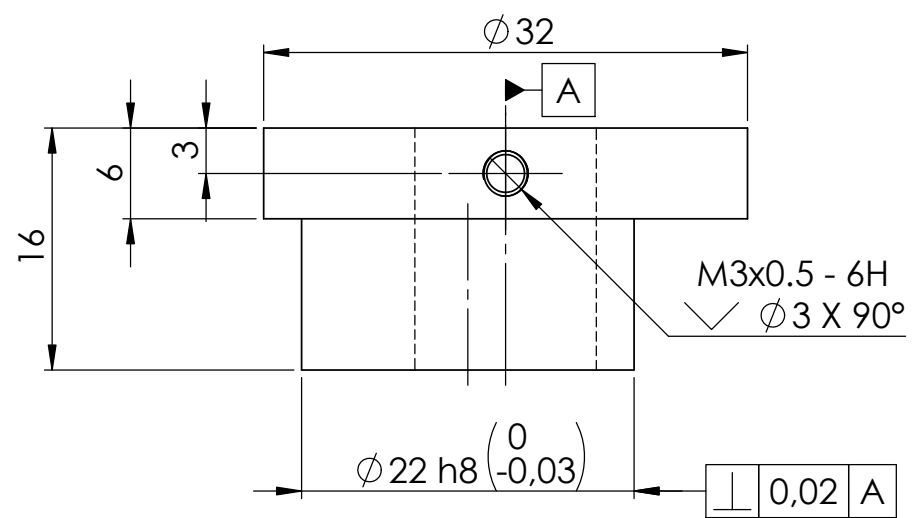
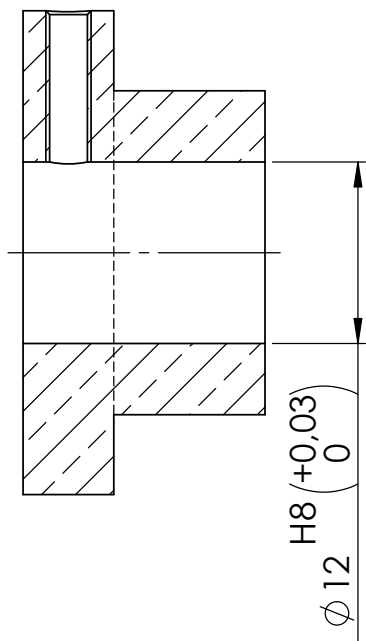
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1,6



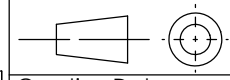
SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 57.527 g  
 MATERIAL: Brass  
 Scale: 2:1

Creation Date:  
11-01-2024

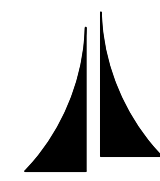
Drawing Name:

Created By:  
Skye Hempel

14-11-23P022 - Eccentric

Approved By:  
-

Roskilde Tekniske Skole



Project Name: Dobbelt Dampmaskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

5

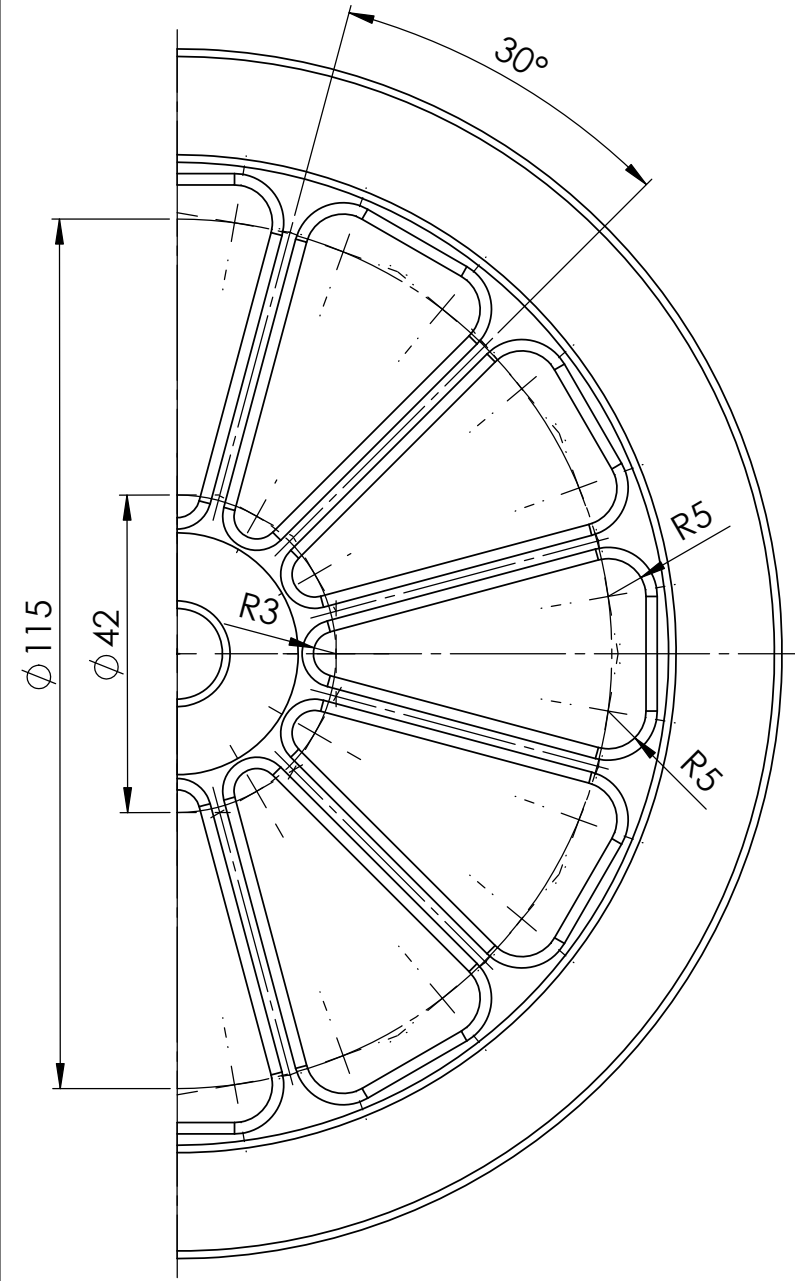
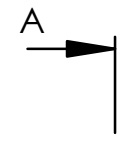
4

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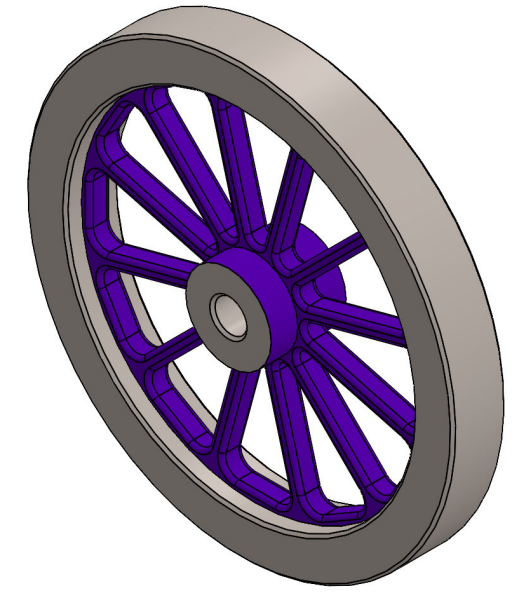
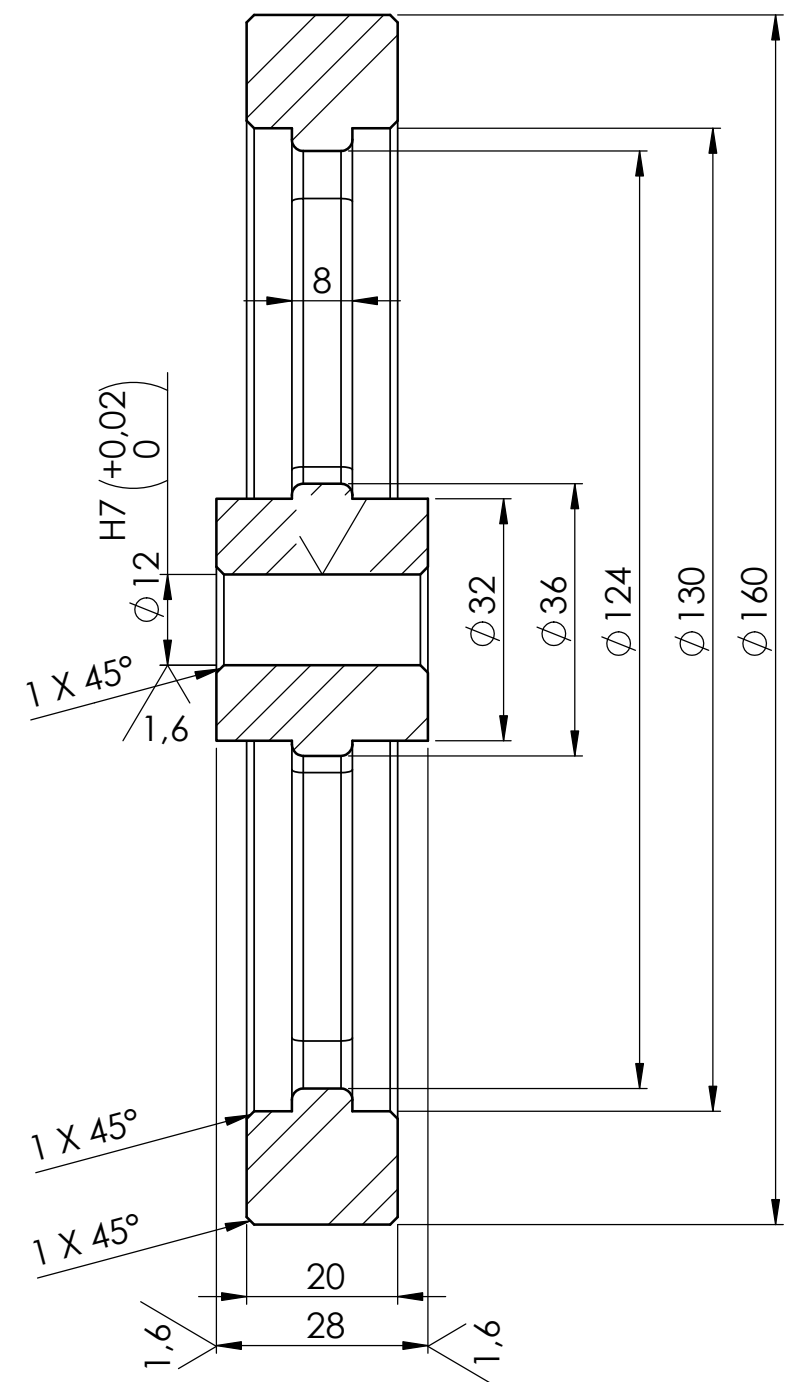
2

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3.2 (✓)



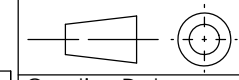
SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 1490.103 g  
 MATERIAL: Stainless Steel AISI 304  
 Scale: 1:1

Creation Date:  
11-01-2024

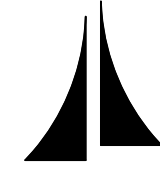
Drawing Name:

Created By:  
Skye Hempel

**14-11-23P023 - Flywheel**

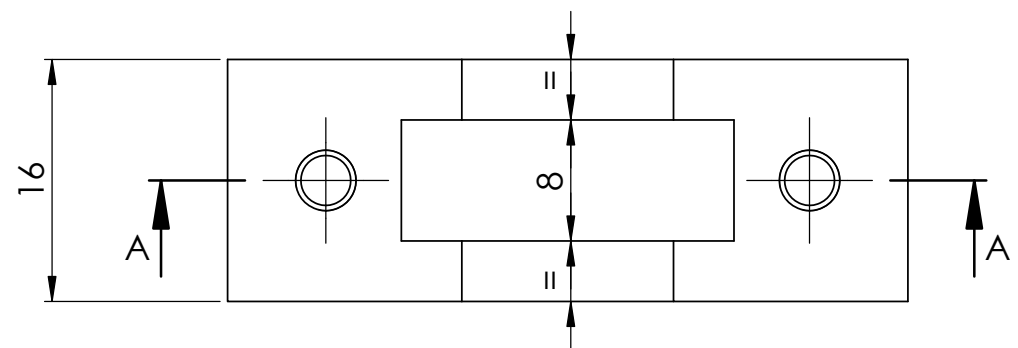
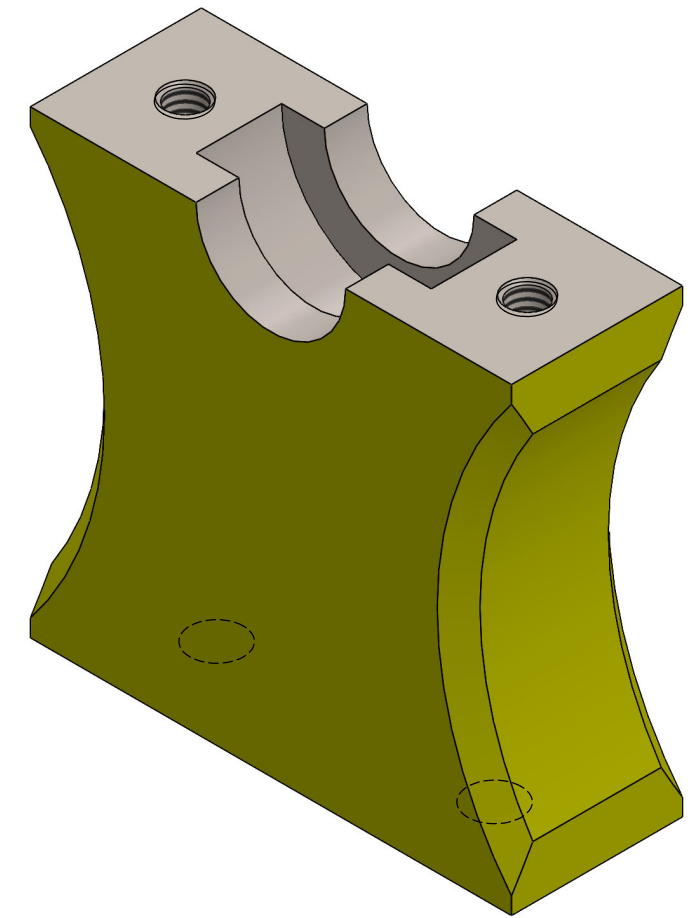
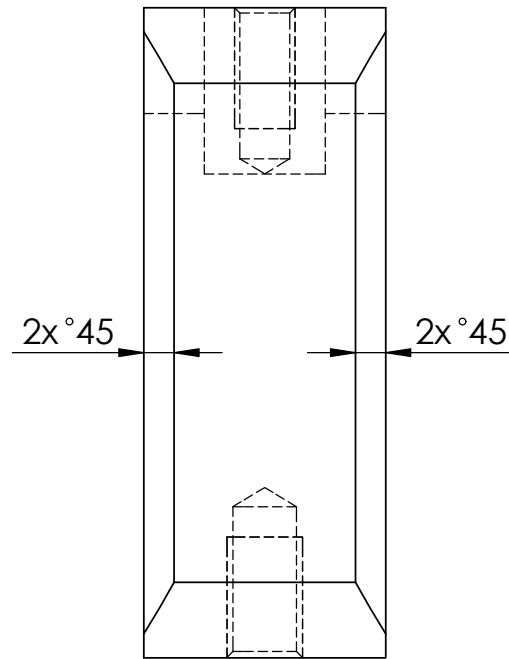
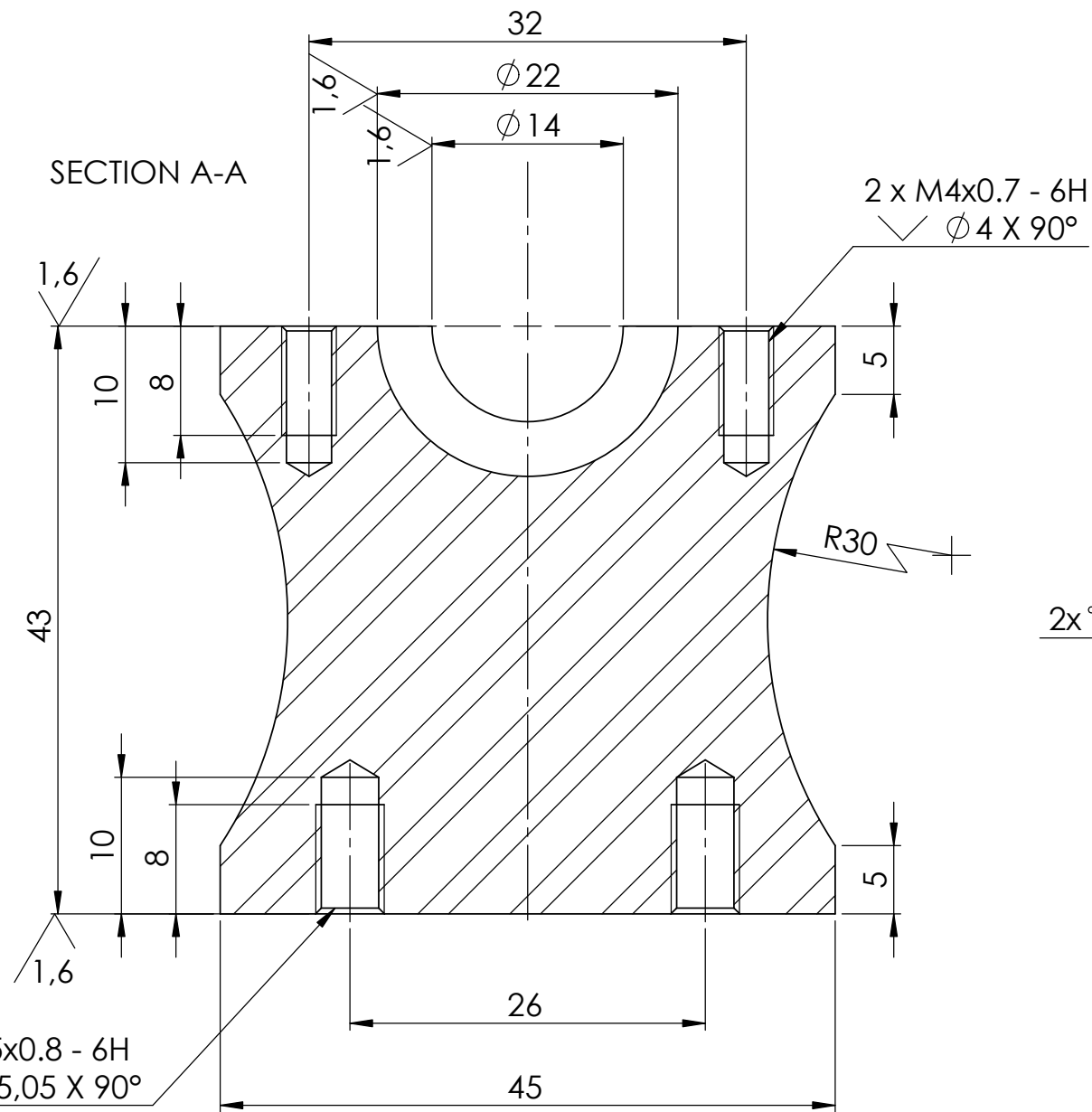
Approved By:  
-

Roskilde Tekniske Skole



Project Name: Dobbelt Dampmaskine  
 Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

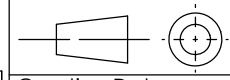
3,2 (✓)



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 188.726 g  
MATERIAL: Alloy Steel  
Scale: 2:1

Creation Date: 15-01-2024

Drawing Name:

Created By: Skye Hempel

14-11-23P024.1 - Main Bearing Foot

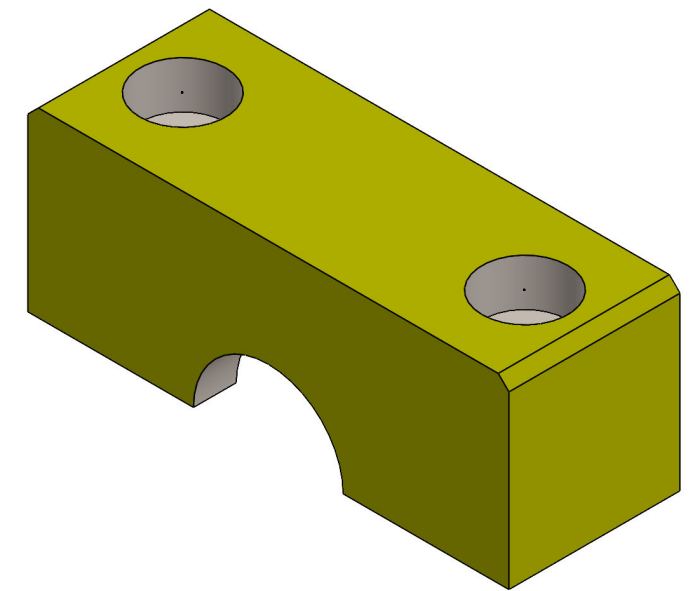
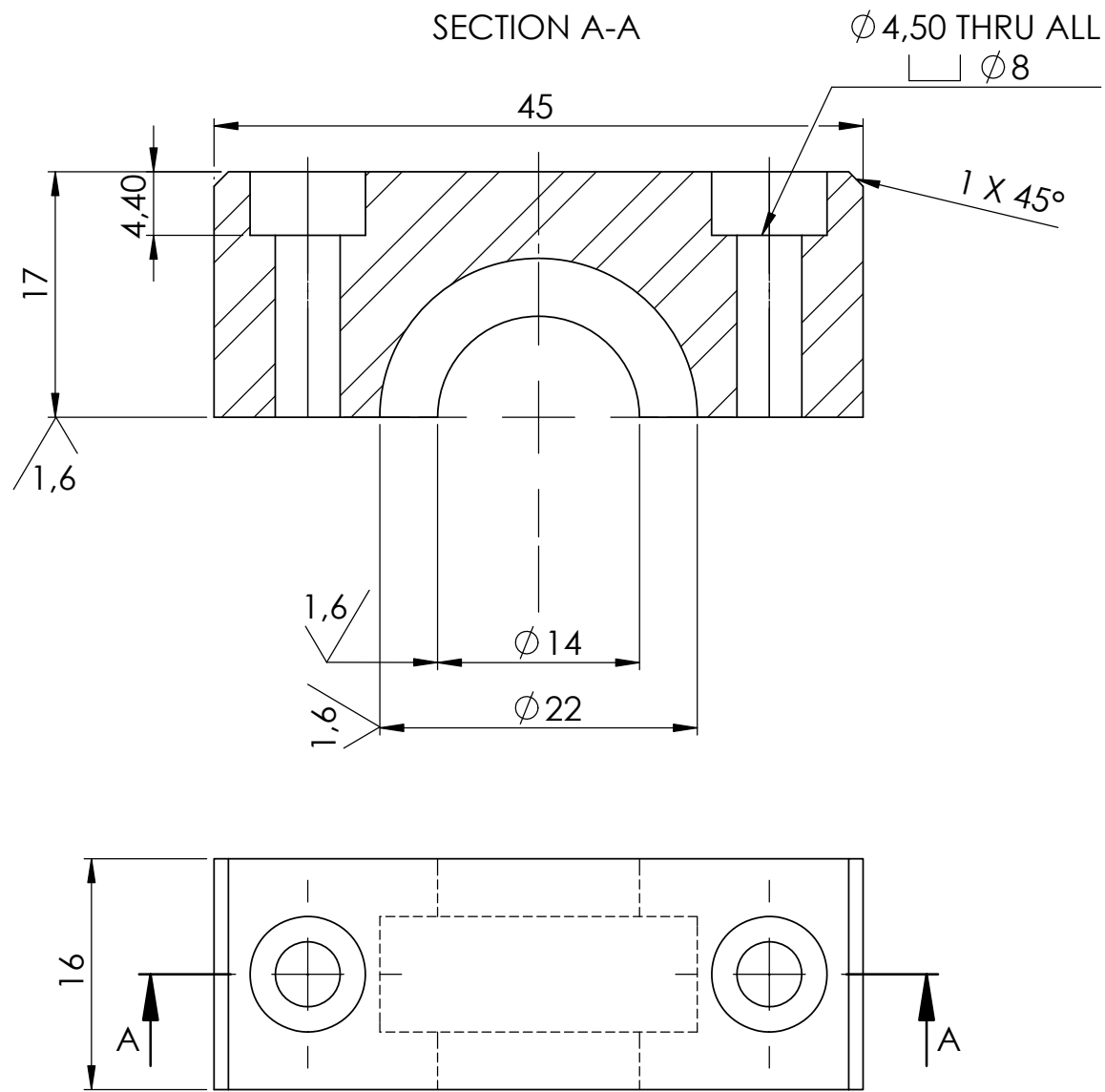
Approved By: -

Roskilde Tekniske Skole



Project Name: Dobbelt Dampmaskine  
Format: A3  
Revision: 1  
Sheet: 1 OF 1

3,2 (✓)

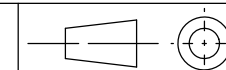


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
71.183 g

MATERIAL:  
Alloy Steel

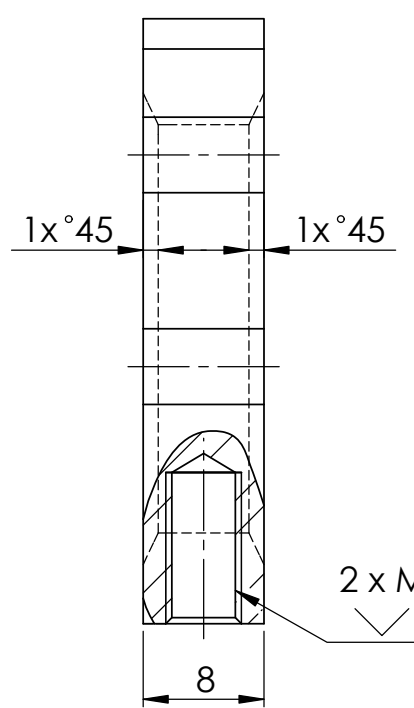
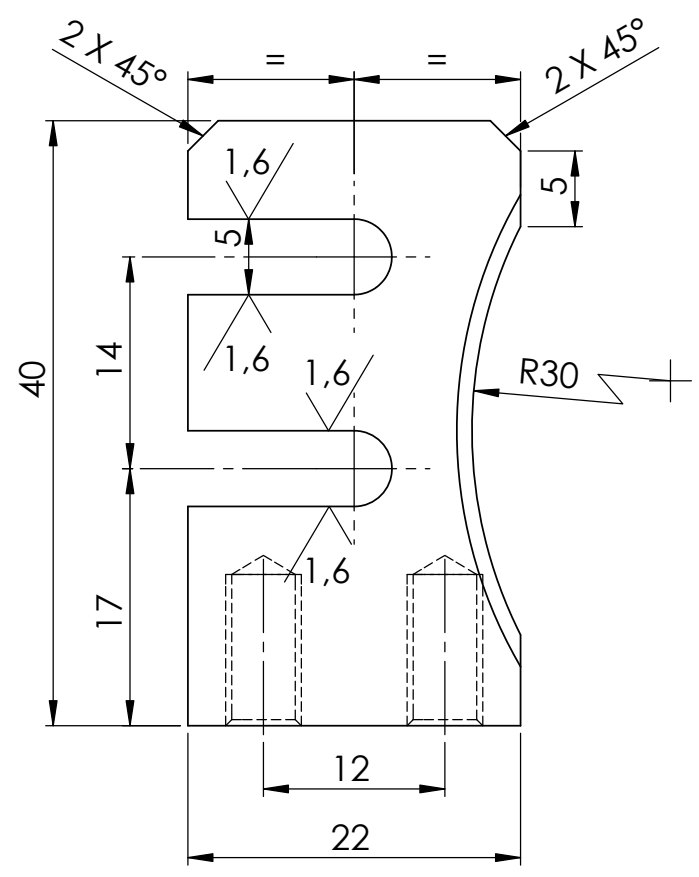
Scale:  
2:1

Drawing Name:  
**14-11-23P024.2 -  
Main Bearing Head**

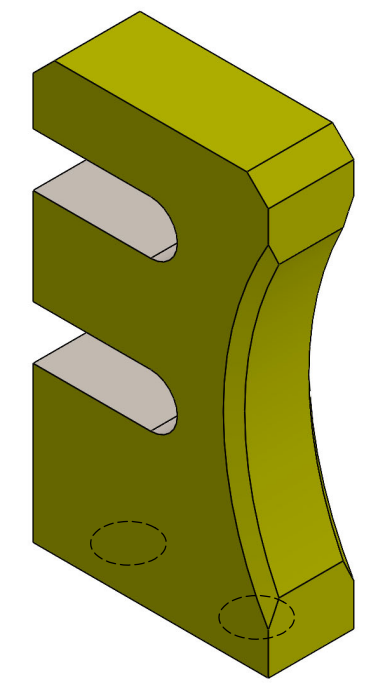
Format: A3

Revision: 1

Sheet: 1 OF 1



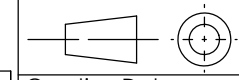
2 x M5x0.8 - 6H  
 ✓  $\phi 5 \times 90^\circ$



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 39.909 g

MATERIAL: Alloy Steel

Scale: 2:1

Creation Date: 15-01-2024

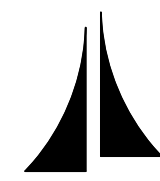
Drawing Name:

Created By: Skye Hempel

14-11-23P025 - PipeRack

Approved By: -

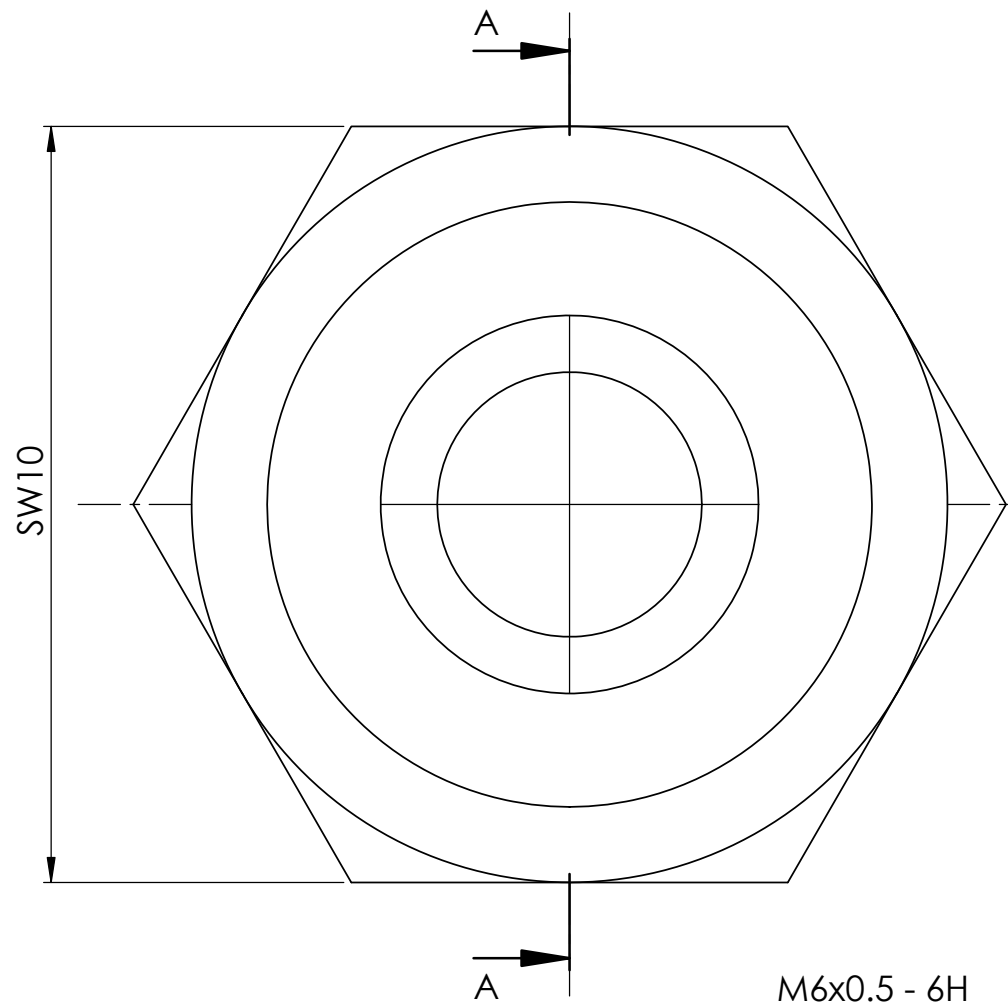
Roskilde Tekniske Skole



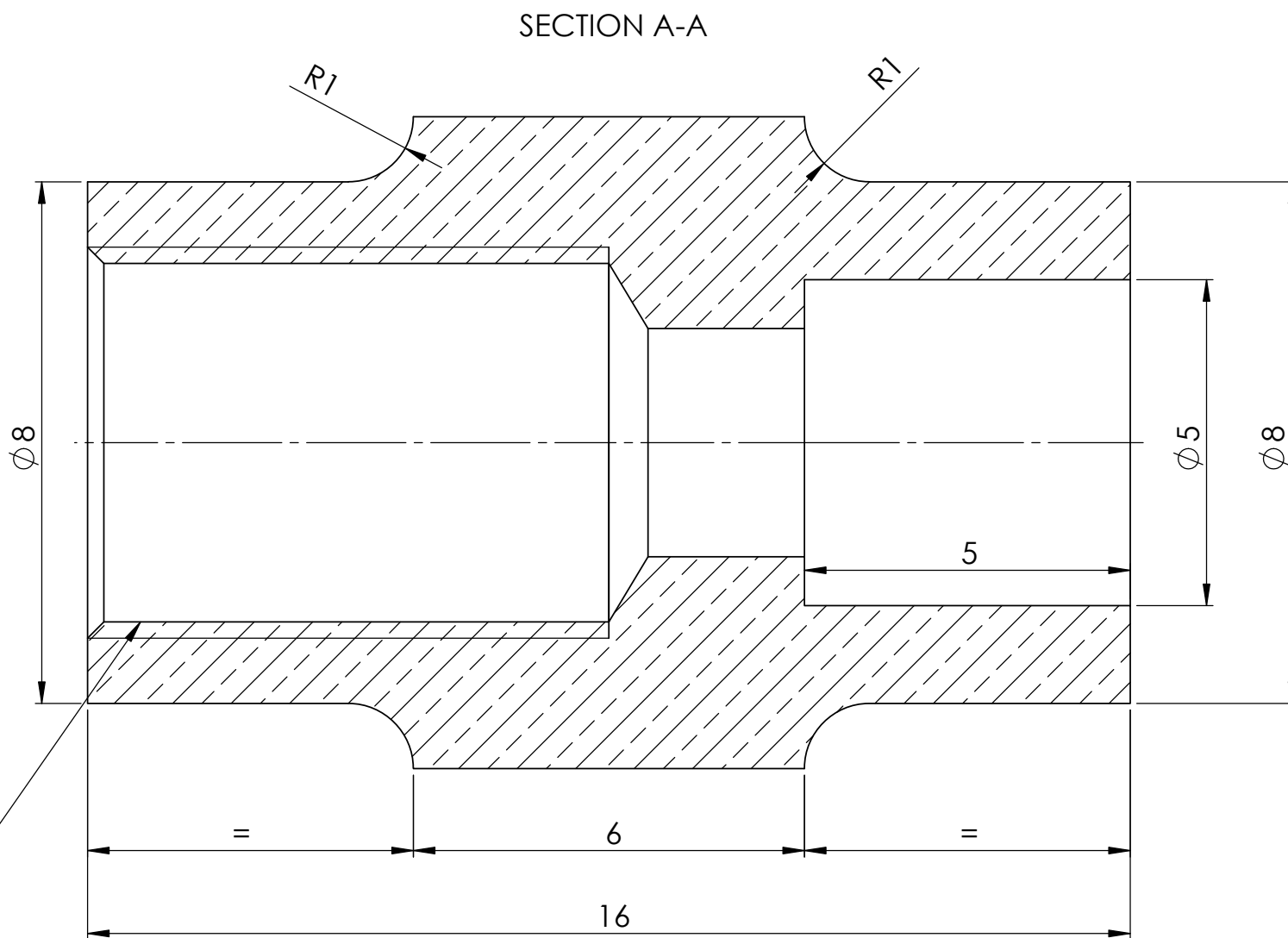
Project Name: Dobbelt Dampmaskine

Format: A3  
 Revision: 1  
 Sheet: 1 OF 1

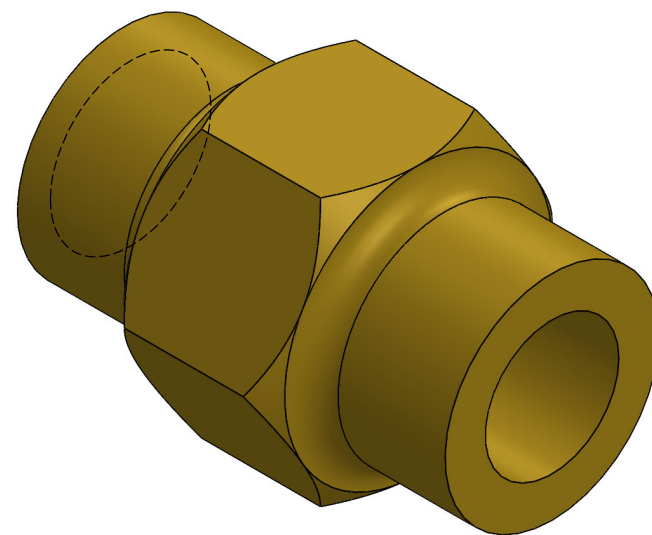
1,6



SW10



M6x0.5 - 6H  
 ✓  $\phi 6 \times 90^\circ$



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
6,021 g

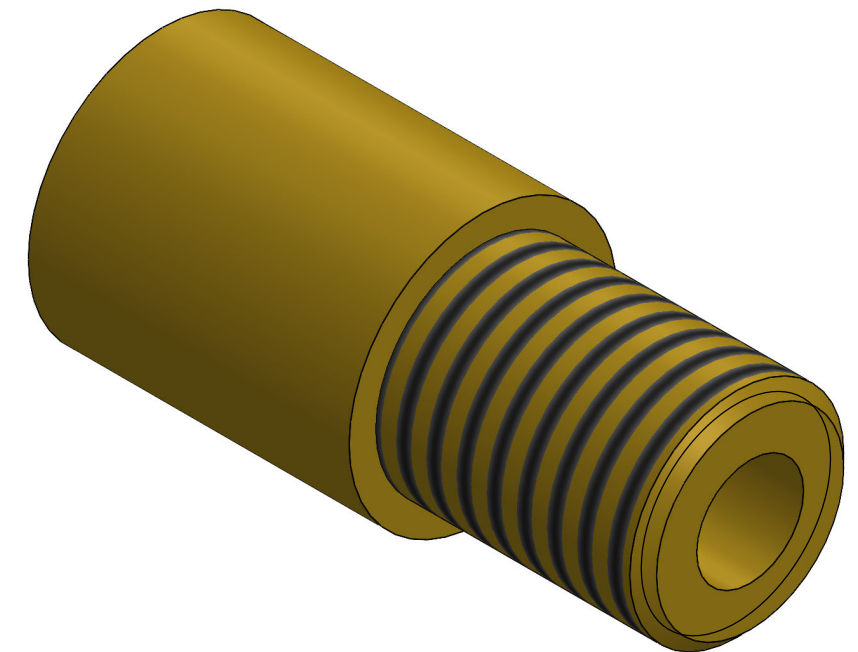
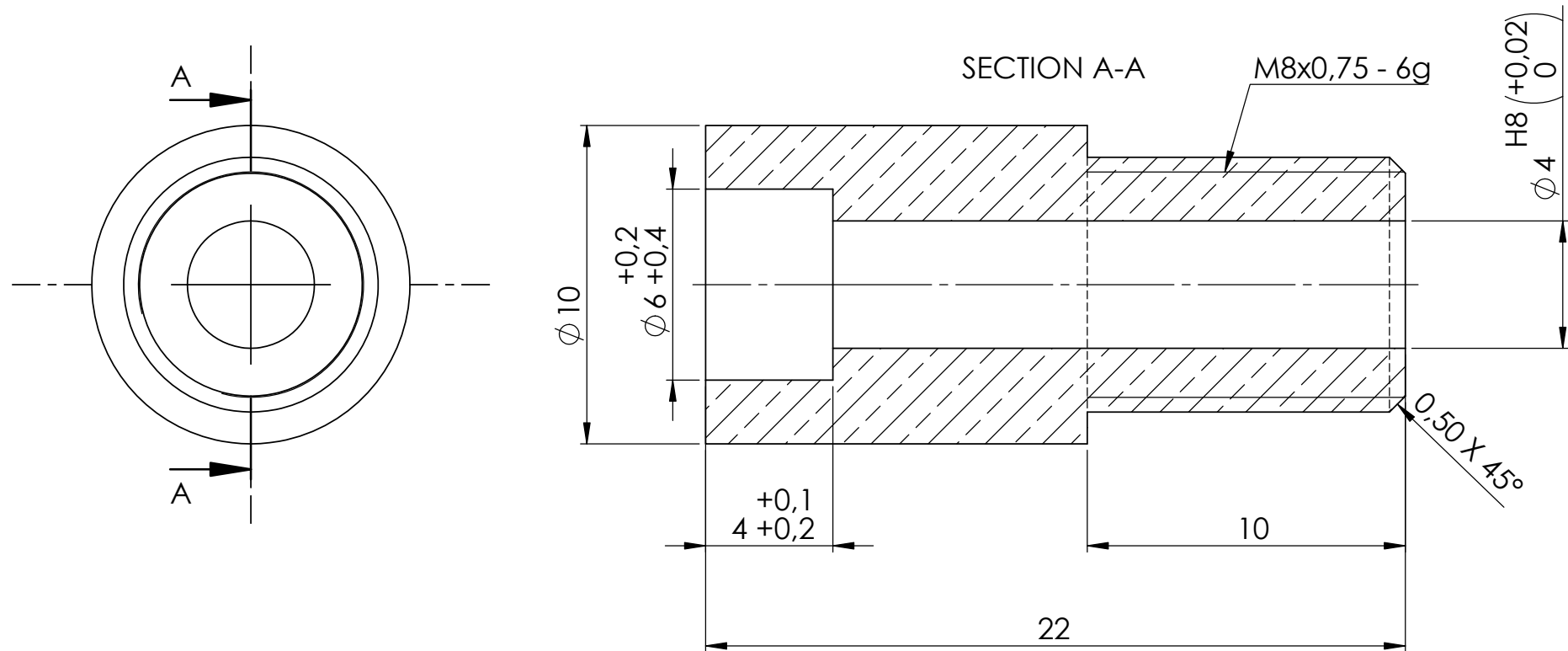
MATERIAL:  
Brass

Scale:  
10:1

Drawing Name:  
**14-11-23P026 -  
Piping Connector  
M6x0,5 Female**

Format: A3    Revision: 1    Sheet: 1 OF 1

1,6

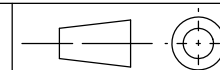
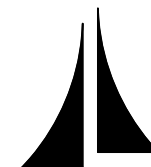


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
9.374 g

MATERIAL:  
Brass

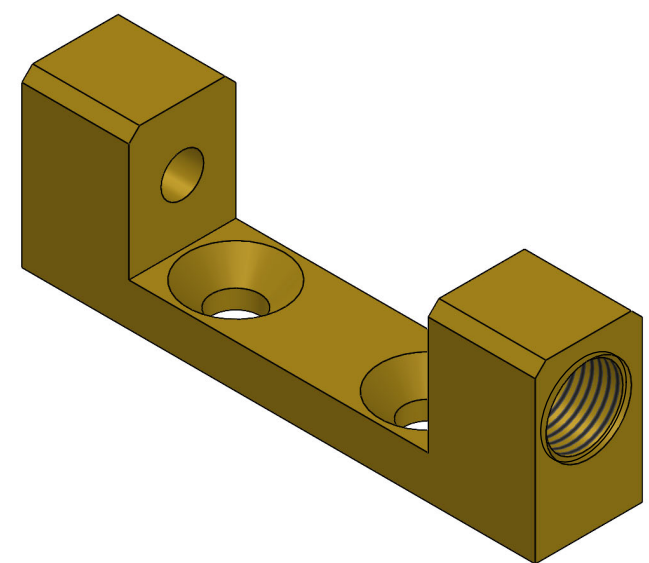
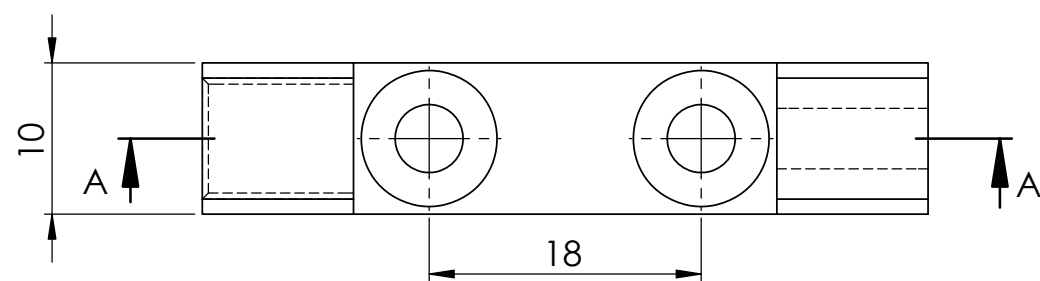
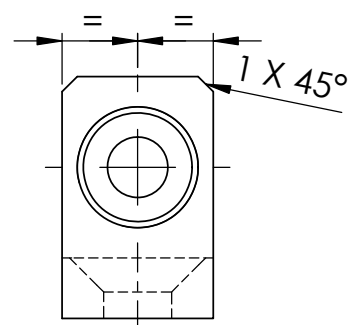
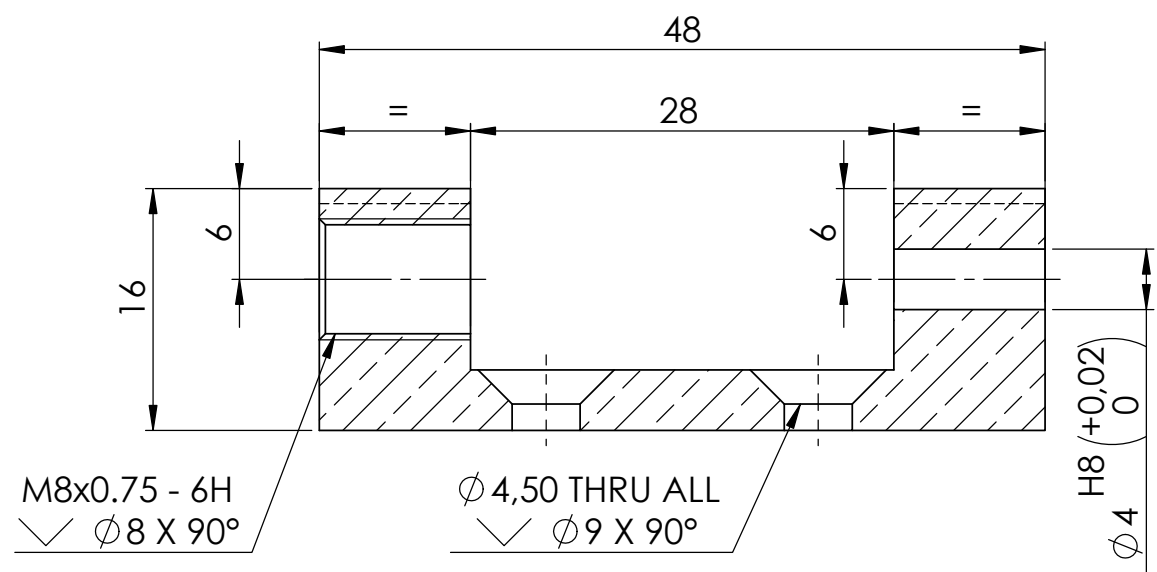
Scale:  
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Drawing Name:  
**14-11-23P027 -  
Rocker Bearing  
Stud**

Format: A3  
Revision: 1  
Sheet: 1 OF 1

1,6

SECTION A-A

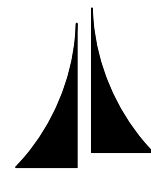


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
 Tekniske  
 Skole



Creation Date: 15-01-2024	Weight: 30.113 g	MATERIAL: Brass	Scale: 2:1
Created By: Skye Hempel	Drawing Name: <b>14-11-23P028 - Rocker Bearing</b>		
Approved By: -	Project Name: Dobbelt Dampmaskine	Format: A3	Revision: 1
		Sheet: 1 OF 1	

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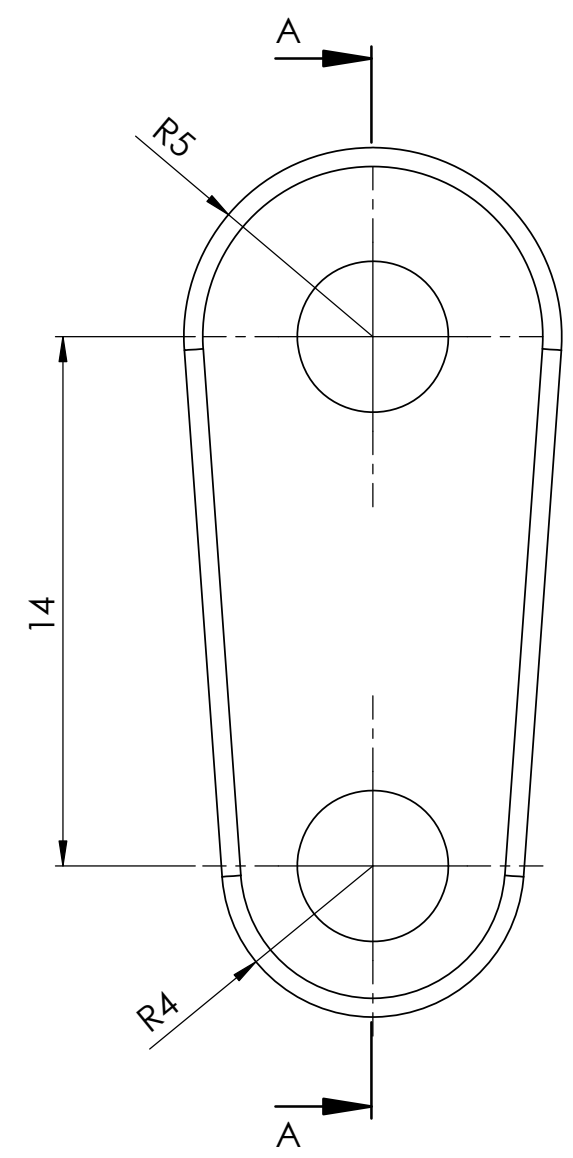
4

3

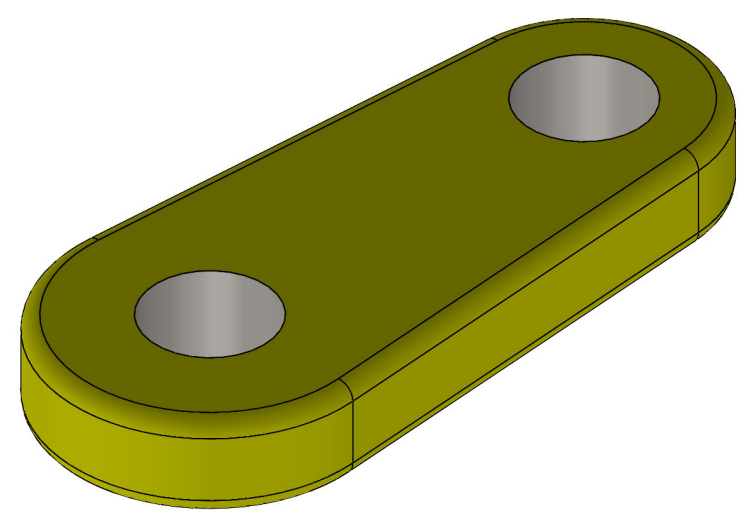
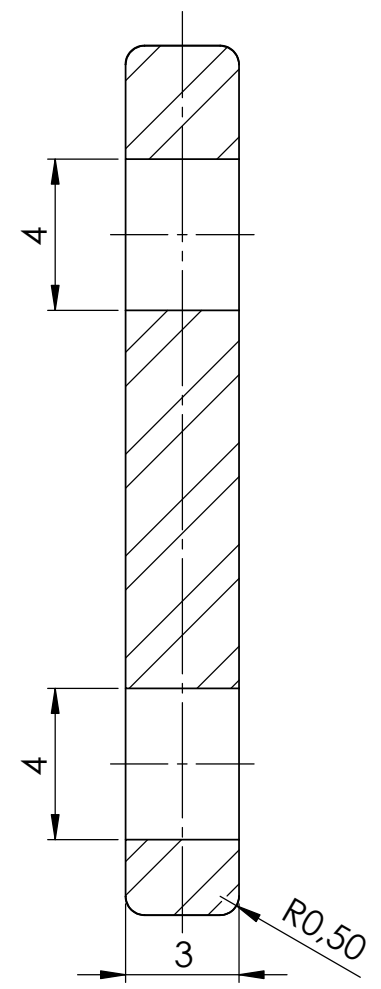
2

1

3,2



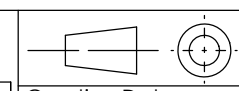
SECTION A-A



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6



Weight: 3.828 g      MATERIAL: Plain Carbon Steel      Scale: 5:1

Creation Date: 15-01-2024

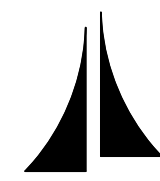
Drawing Name:

Created By: Skye Hempel

**14-11-23P029.1 - Rockshaft Arm**

Approved By: -

Roskilde Tekniske Skole



Project Name: Dobbelt Dampmaskine      Format: A3      Revision: 1      Sheet: 1 OF 1

5

4

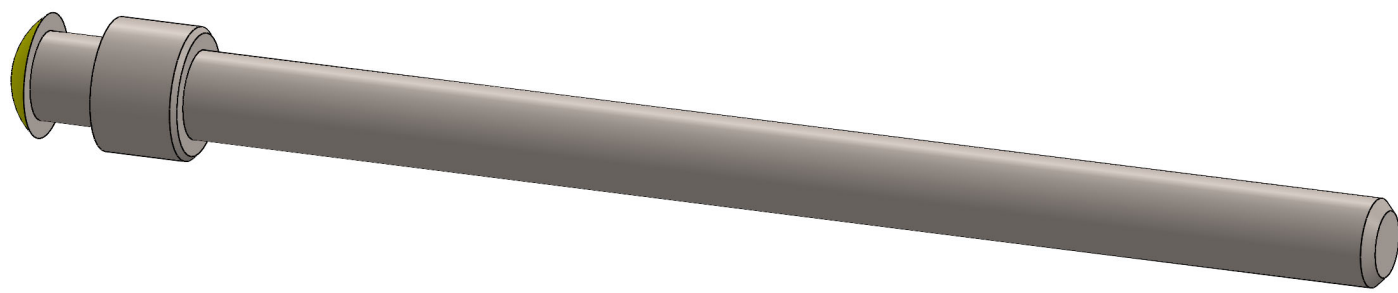
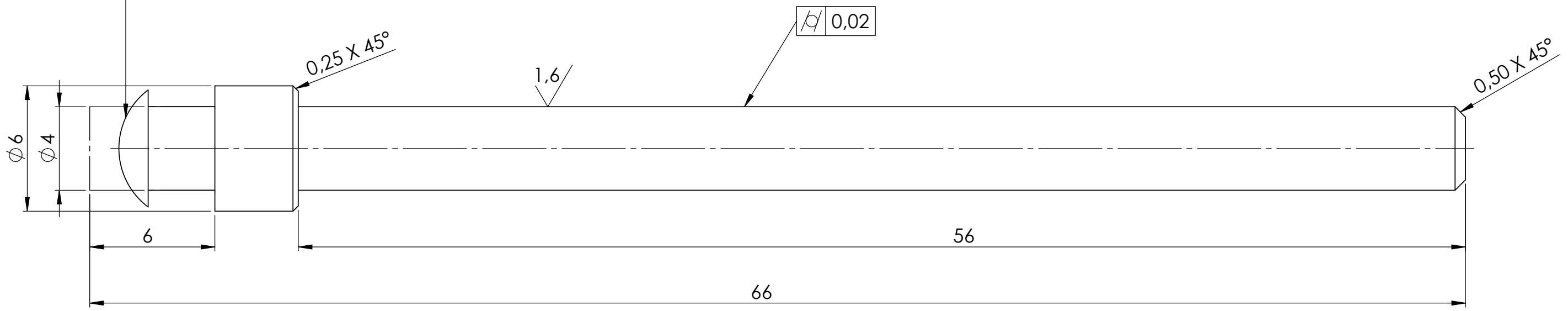
3

2

1

3,2 (✓)

Rivet into place  
Dobbelt Dampmaskine - 14-11-23S004 - Rocker Shaft



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobelt Dampmaskine

Weight:  
6.990 g

MATERIAL:  
Stainless Steel AISI 304

Scale:  
5:1

Drawing Name:  
14-11-23P029.2 -  
Rockshaft Rod

Format: A3  
Revision: 1  
Sheet: 1 OF 1

8

7

6

5

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3

2

1

F

3,2

Rivet into place  
Dobbelt Dampmaskine - 14-11-23S004 - Rocker Shaft

0,25 X 45°

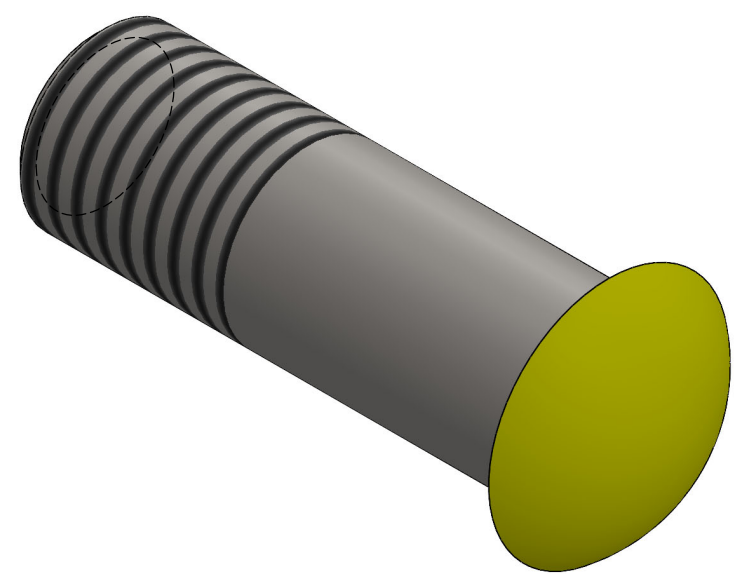
M4x0.7- 6g

Ø4

5

12

15

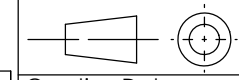
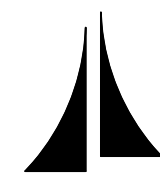


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
1.319 g

MATERIAL:  
Plain Carbon Steel

Scale:  
15:1

Drawing Name:  
**14-11-23P029.3 -  
Rockshaft Short Rod**

Format: A3  
Revision: 1  
Sheet: 1 OF 1

5

4

3

2

1

A

A

B

B

C

C

D

D

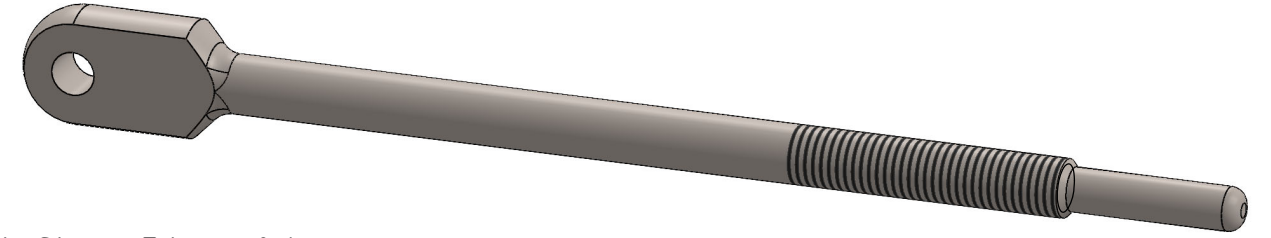
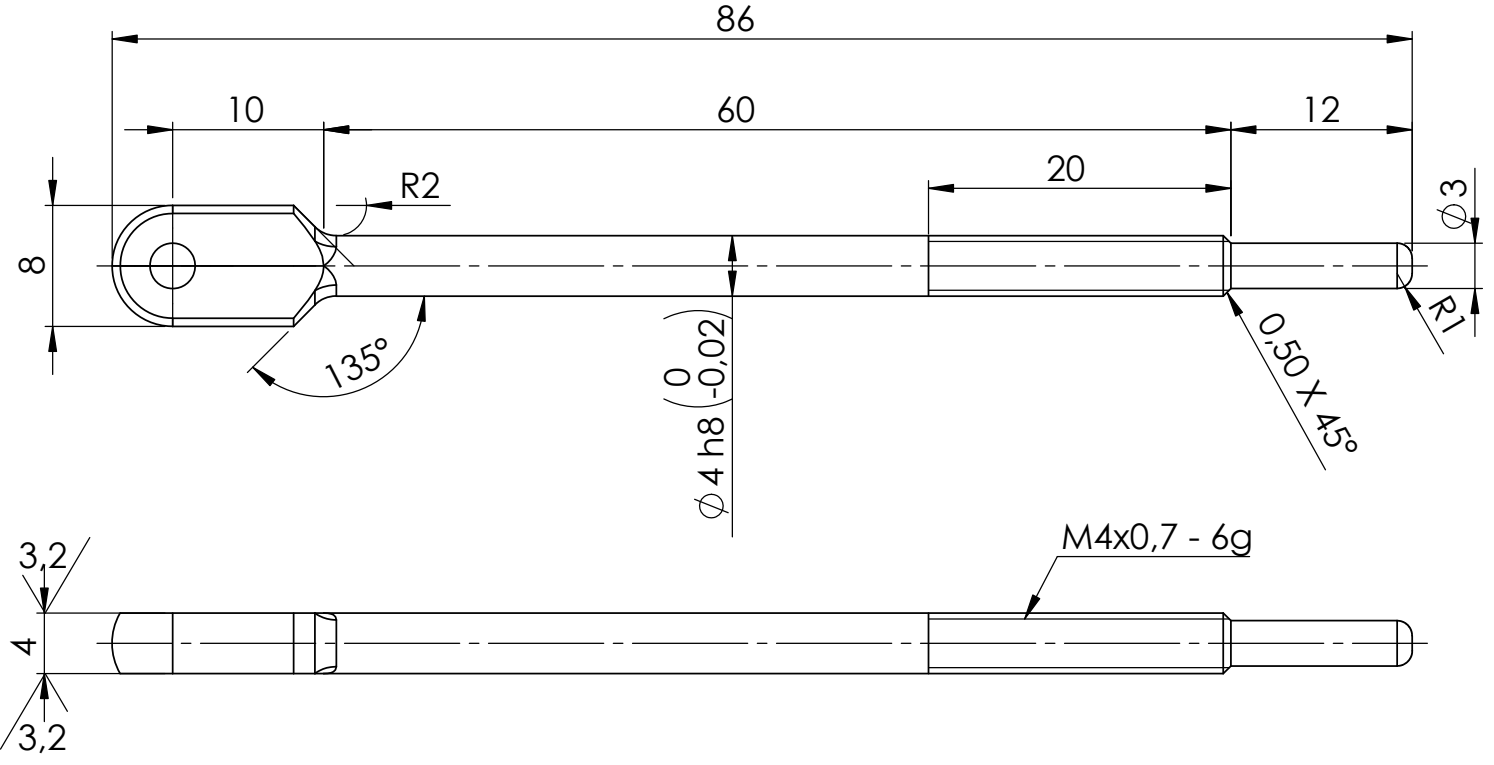
E

E

F

F

1,6 (✓)



Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde Tekniske Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

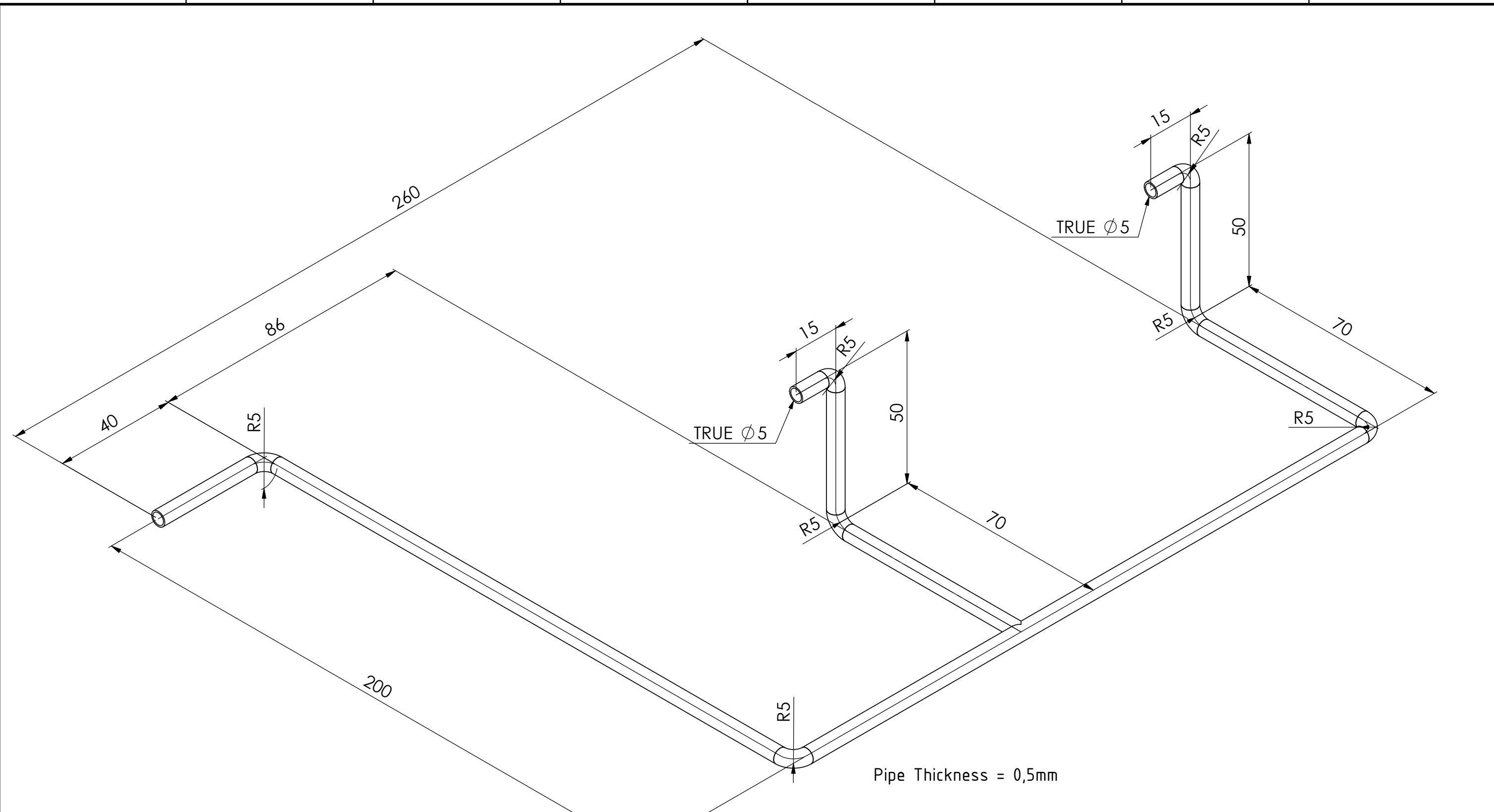
Weight:  
9.513 g

MATERIAL:  
Stainless Steel AISI 304

Scale:  
2:1

Drawing Name:  
**14-11-23P030 - Slide Valve Rod**

Format: A3  
Revision: 1  
Sheet: 1 OF 1



All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

Roskilde Tekniske Skole

Weight: 44.863 g  
MATERIAL: Copper  
Scale: 1:1

Creation Date: 15-01-2024  
Created By: Skye Hempel  
Approved By: -

Project Name: Dobbelt Dampmaskine  
Format: A3  
Revision: 1  
Sheet: 1 OF 2

Drawing Name: 14-11-23P031 - SteamPipe Entry

8 7 6 5 4 3 2 1

F

E

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E

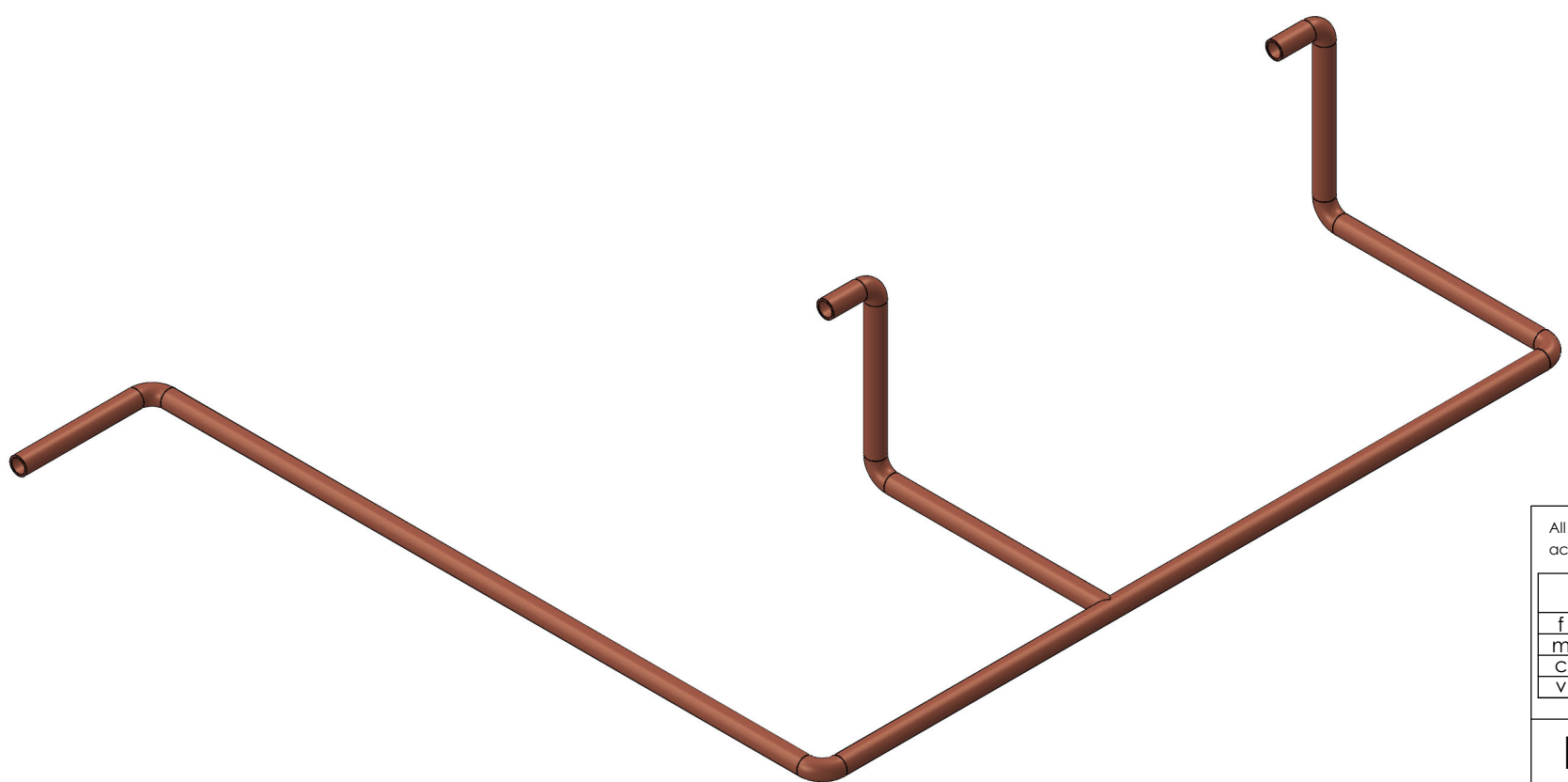
D

C

B

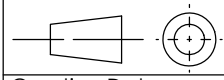
A

ITEM NO.	QTY.	Material	Weight	Length
1	1	Copper	44.863 g	617,854 mm
	1	Copper	2.202 g	35 mm
	7	Copper	0.494 g	7.854 mm
	1	Copper	11.953 g	190 mm
	1	Copper	13.211 g	210 mm
	2	Copper	0.629 g	10 mm
	2	Copper	2.516 g	40 mm
	1	Copper	3.775 g	60 mm
	1	Copper	3.972 g	65 mm



All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

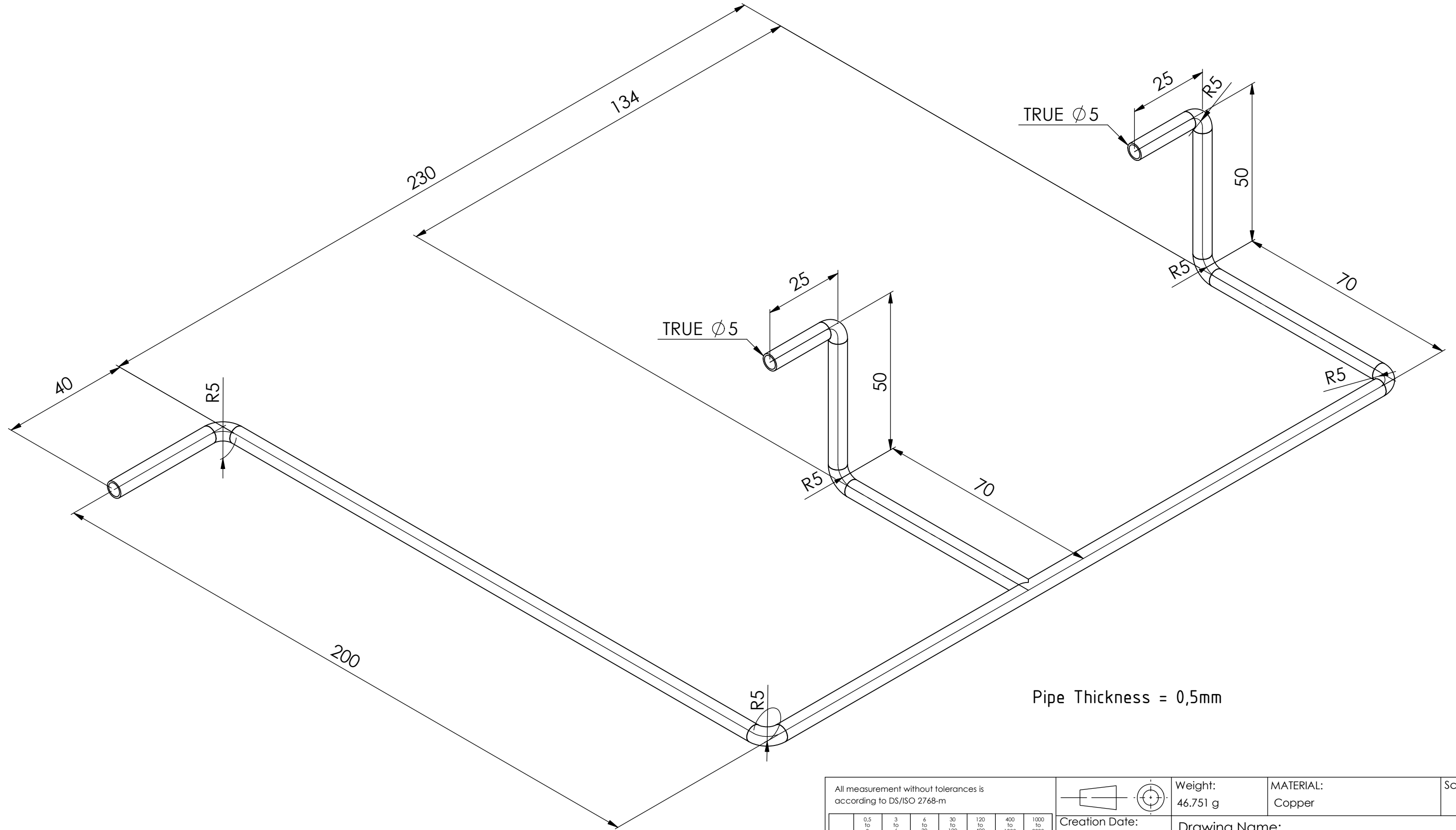


Weight: 44.863 g	MATERIAL: Copper	Scale: 1:2
Creation Date: 15-01-2024	Drawing Name: 14-11-23P031 - SteamPipe Entry	
Created By: Skye Hempel	Approved By: -	
Project Name: Dobbelt Dampmaskine	Format: A3	Revision: 1
		Sheet: 2 OF 2

8 7 6 5 4 3 2 1

F  
E  
D  
C  
B  
A

F  
E  
D  
C  
B  
A




Pipe Thickness = 0,5mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde Tekniske Skole



Creation Date: 15-01-2024  
 Created By: Skye Hempel  
 Approved By: -  
 Project Name: Dobbelt Dampmaskine

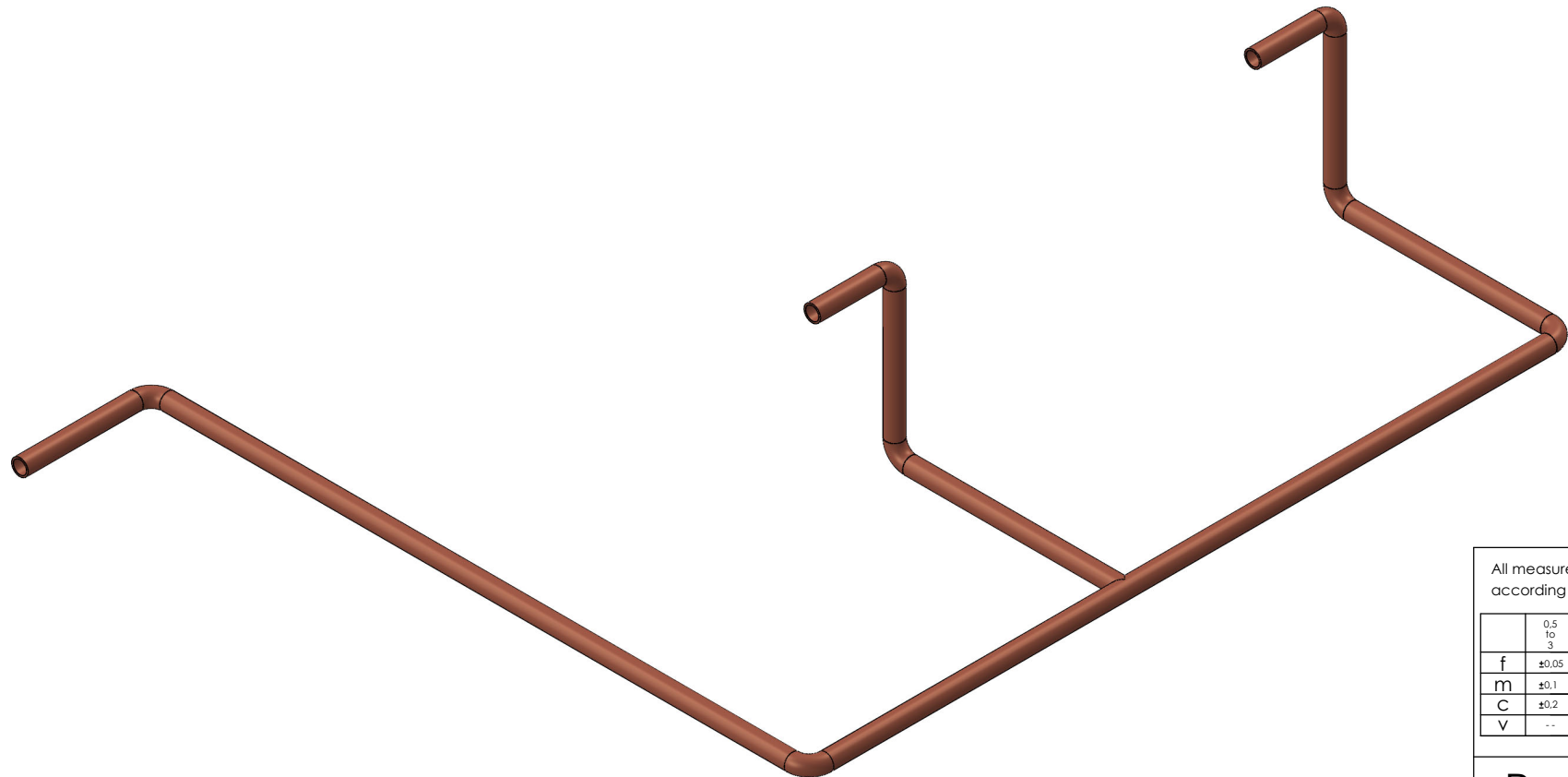
Weight: 46,751 g  
 MATERIAL: Copper  
 Scale: 1:1

Drawing Name: 14-11-23P032 - SteamPipe Exit

Format: A3  
 Revision: 1  
 Sheet: 1 OF 2

8 7 6 5 4 3 2 1

ITEM NO.	QTY.	Material	Weight	Length
1	1	Copper	46.751 g	637,854 mm
	1	Copper	2.202 g	35 mm
	7	Copper	0.494 g	7.854 mm
	1	Copper	11.953 g	190 mm
	1	Copper	13.840 g	220 mm
	2	Copper	1.258 g	20 mm
	2	Copper	2.516 g	40 mm
	1	Copper	3.775 g	60 mm
	1	Copper	3.973 g	65 mm



All measurement without tolerances is according to DS/ISO 2768-m

	0.5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5
m	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
C	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3
V	--	±0.5	±1	±1.5	±2.5	±4	±6

	Weight: 46.751 g	MATERIAL: Copper	Scale: 1:1
Creation Date: 15-01-2024	Drawing Name: 14-11-23P032 - SteamPipe Exit		
Created By: Skye Hempel			
Approved By: -			
Project Name: Dobbelt Dampmaskine	Format: A3	Revision: 1	Sheet: 2 OF 2

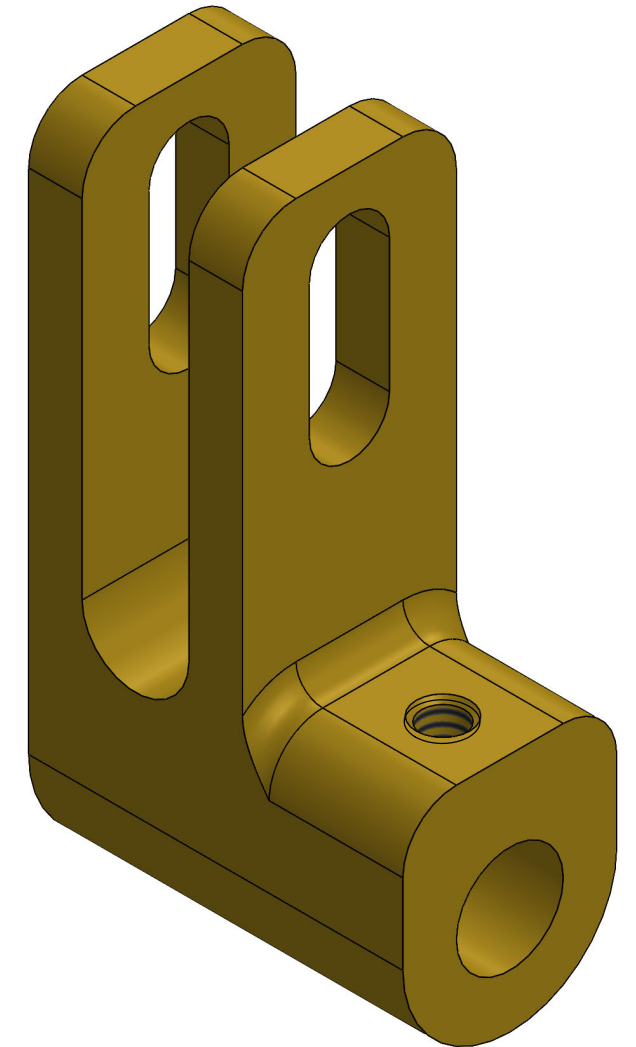
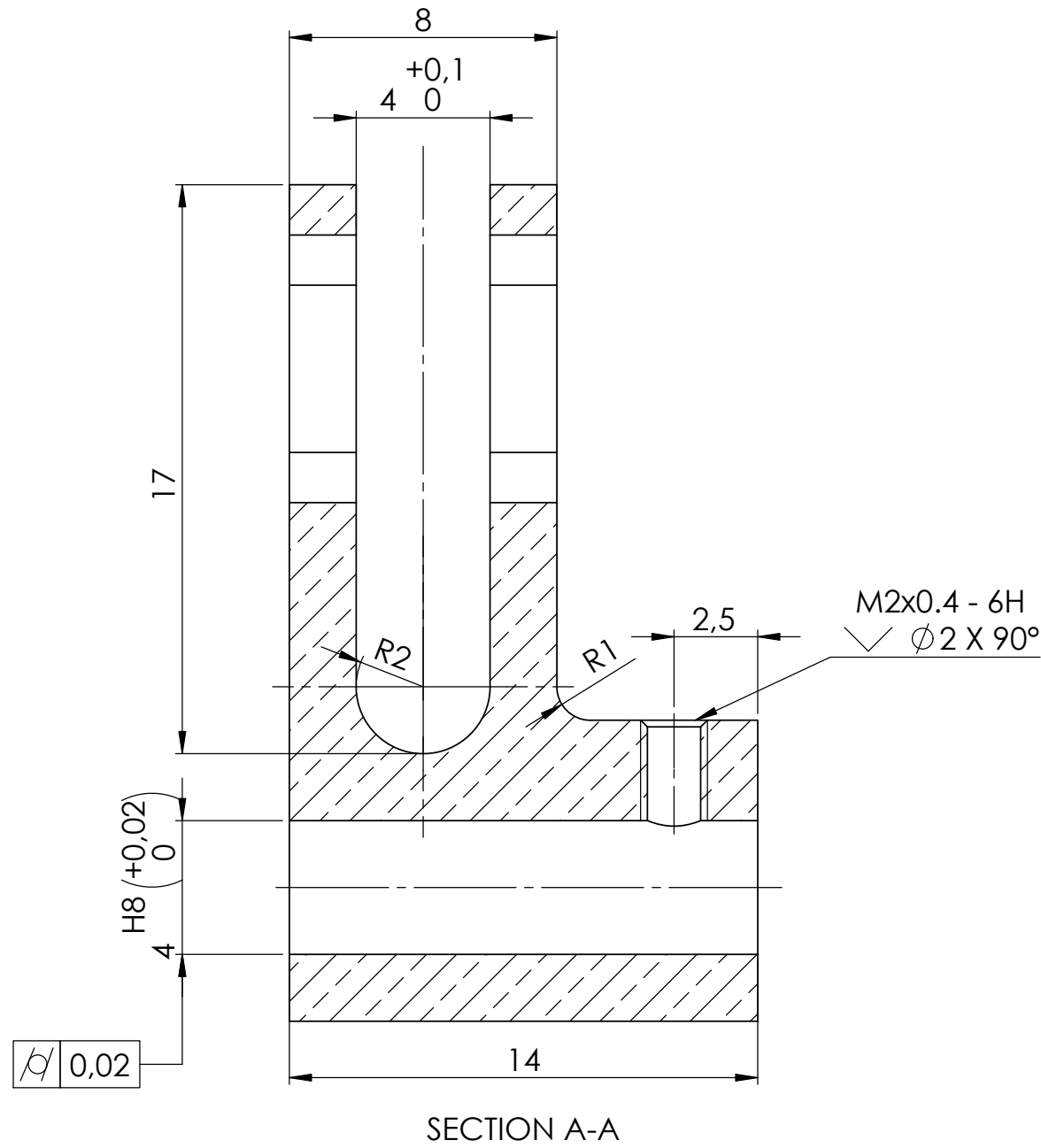
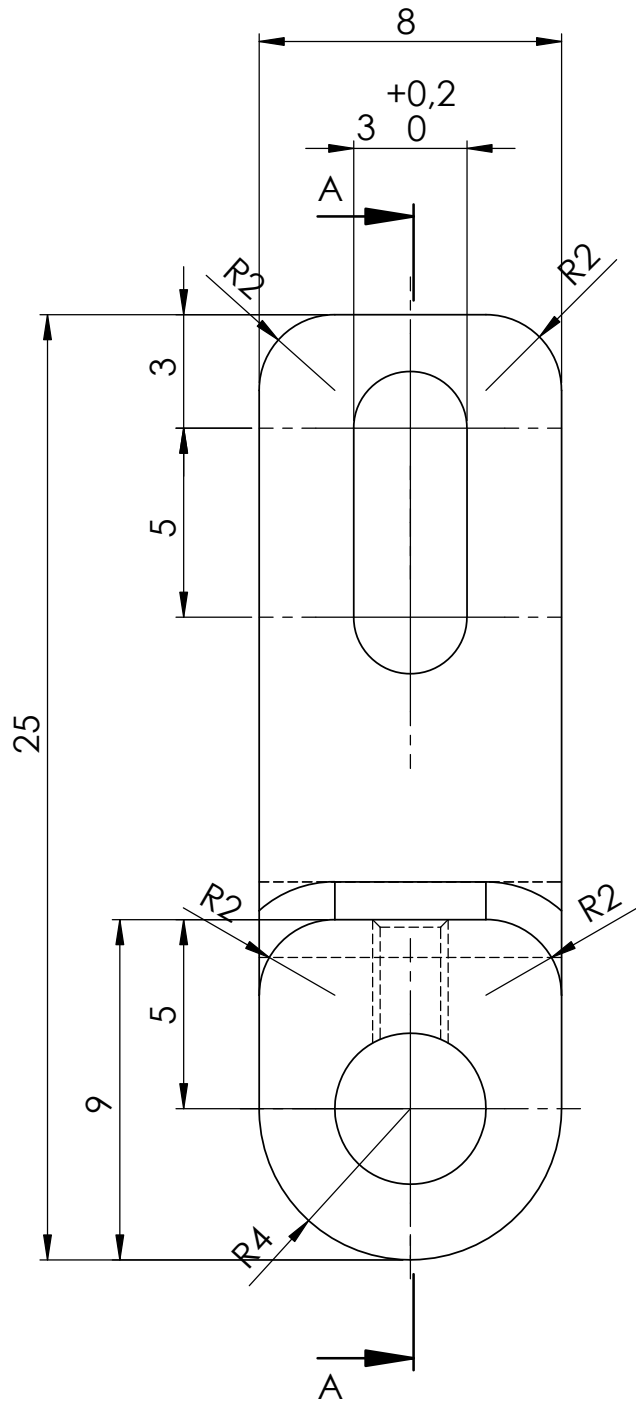


5 4 3 2 1

F  
E  
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F  
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A

1,6

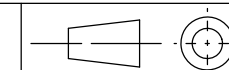


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobbelt Dampmaskine

Weight:  
9.520 g

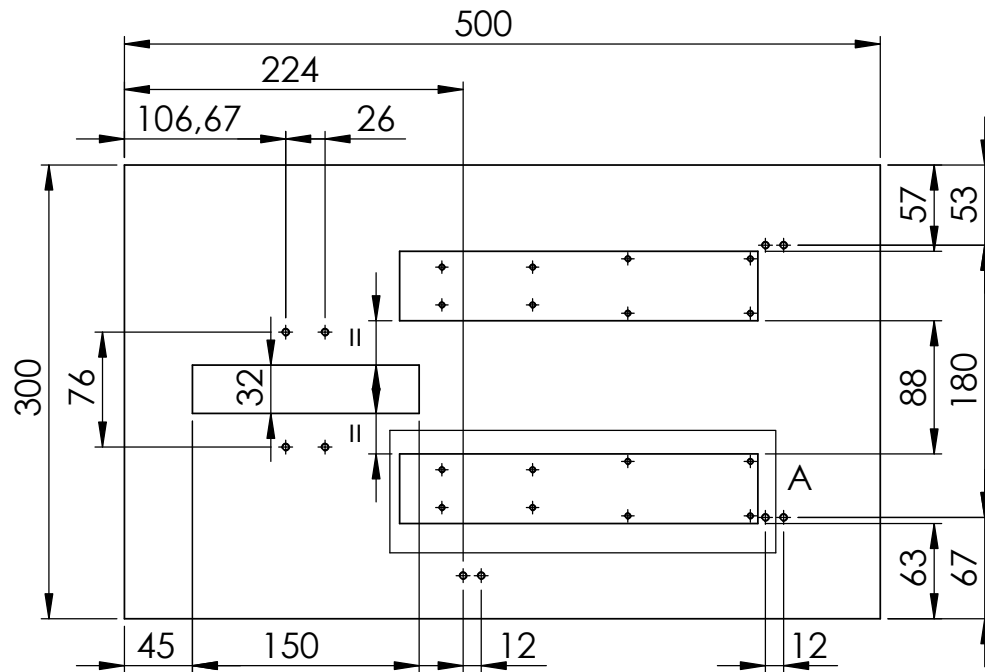
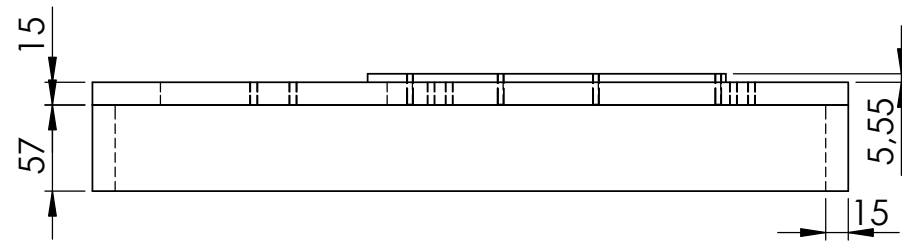
MATERIAL:  
Brass

Scale:  
5:1

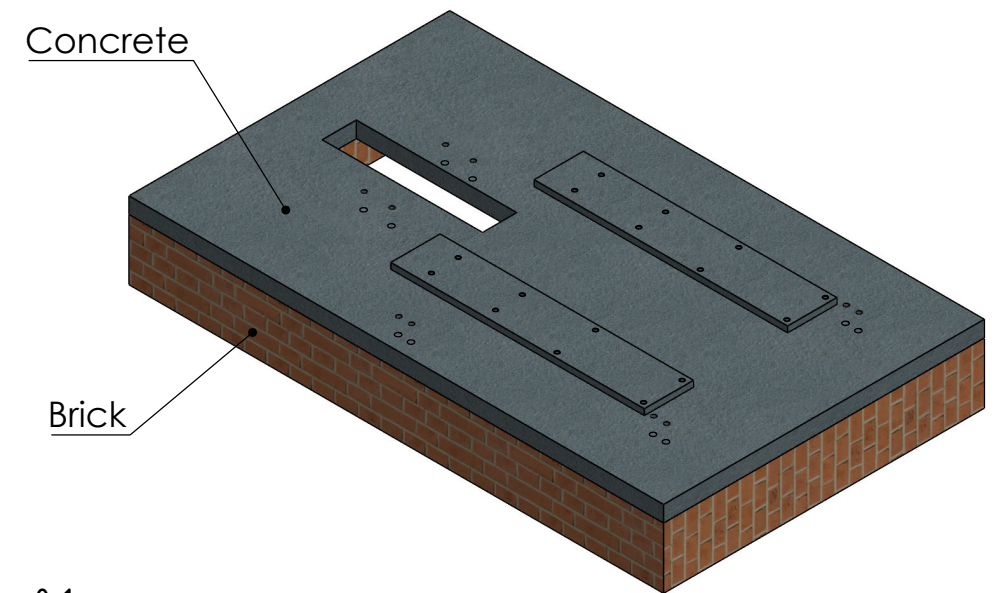
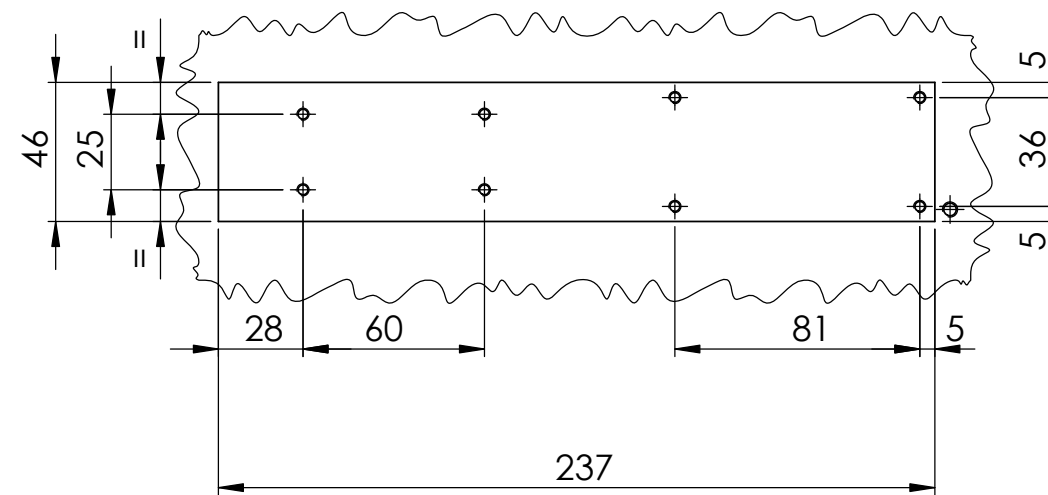
Drawing Name:  
**14-11-23P033 -  
Valve Fork**

Format: A3	Revision: 2	Sheet: 1 OF 1
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1,6



DETAIL A  
SCALE 2 : 5

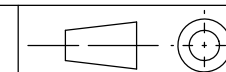


Break Sharp Edges: 0,1 mm

All measurement without tolerances is according to DS/ISO 2768-m

	0,5 to 3	3 to 6	6 to 30	30 to 120	120 to 400	400 to 1000	1000 to 2000
f	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5
m	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2
C	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
V	--	±0,5	±1	±1,5	±2,5	±4	±6

Roskilde  
Tekniske  
Skole



Creation Date:  
15-01-2024

Created By:  
Skye Hempel

Approved By:  
-

Project Name:  
Dobblet Dampmaskine

Weight:  
8139.266 g

MATERIAL:  
Brick

Scale:  
1:5

Drawing Name:  
**14-11-23P034 -  
Plattform**

Format: A3	Revision: 1	Sheet: 1 OF 1
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