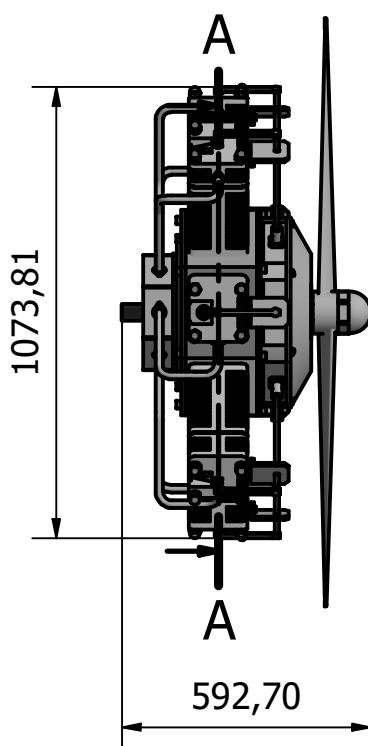
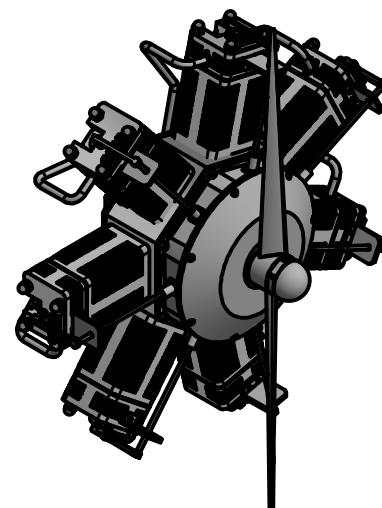
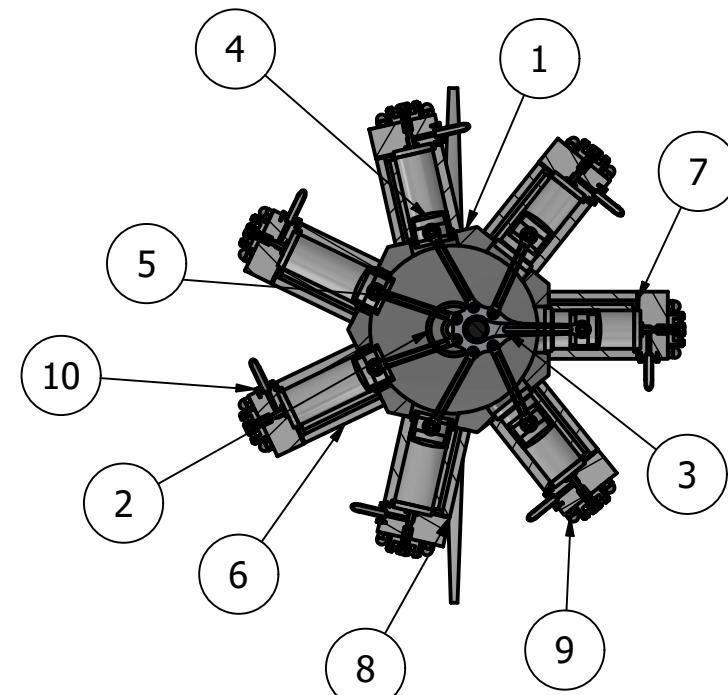


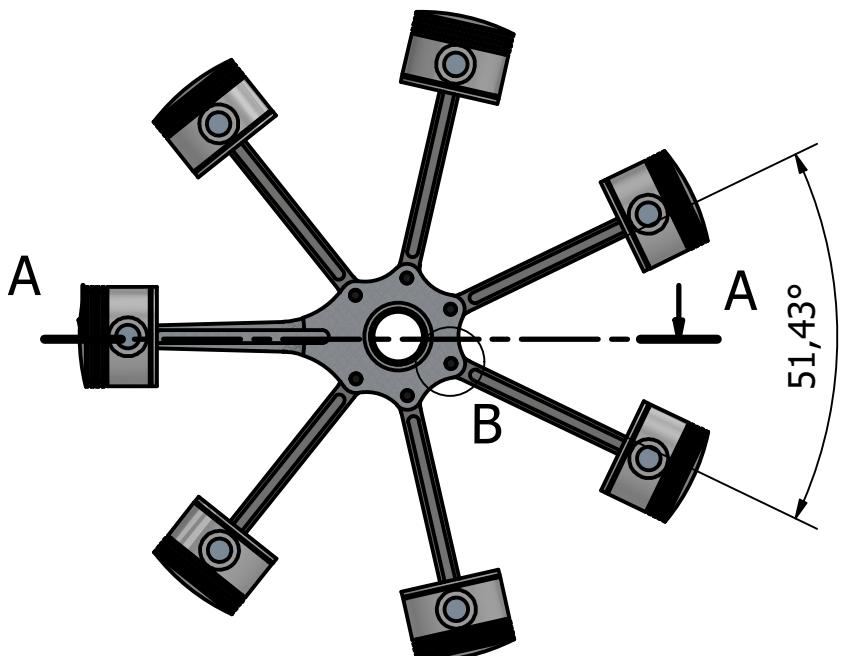
ITEM	QTDE	NÚMERO DA PEÇA
1	1	Bloco do Motor
2	1	Virabrequim
3	1	Biela Mestra com Buchas
4	7	Pistao equipado
5	6	Biela Articulada com Buchas
6	7	Cilindro
7	7	Junta do Cilindro
8	7	Cabeça do Cilindro
9	28	Porcas M16 sextavadas boleadas
10	32	Parafuso M4 x 10 de cabeça cilíndrica



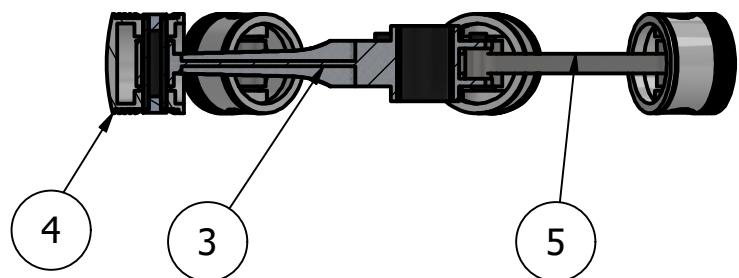
Vista A-A



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:20	Data 26/07/2021
UFABC			Montagem do Motor Radial		
				Edição 01	Folha 1 / 10

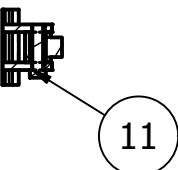


Vista A-A

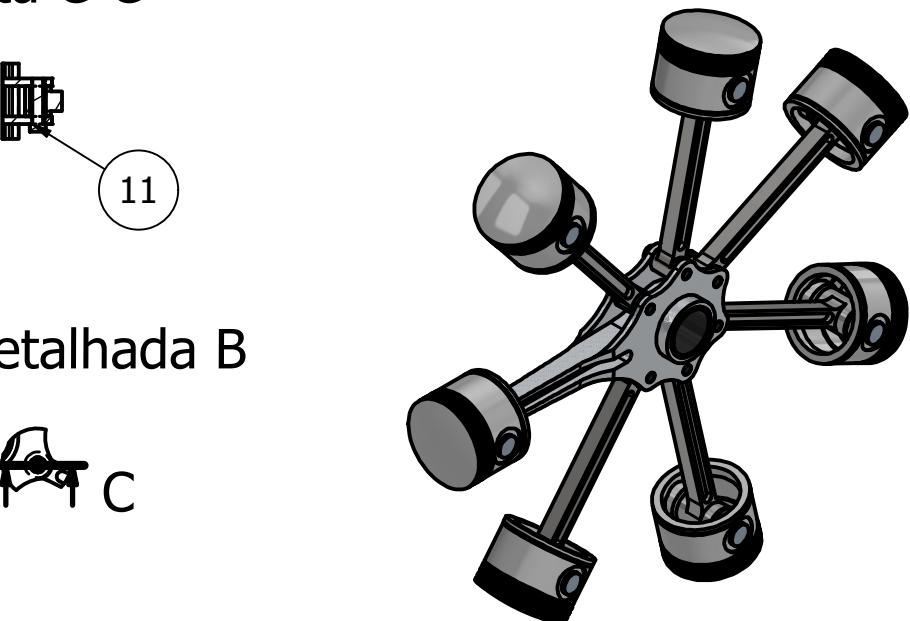


Vista detalhada B

C C



Vista C-C



Vista Isométrica

LISTA DE PEÇAS

ITEM	QTDE	NÚMERO DA PEÇA
3	1	Biela Mestra com buchas
4	7	Pistao equipado
5	6	Biela Articulada com buchas
11	6	Pino de Conexão

Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:7

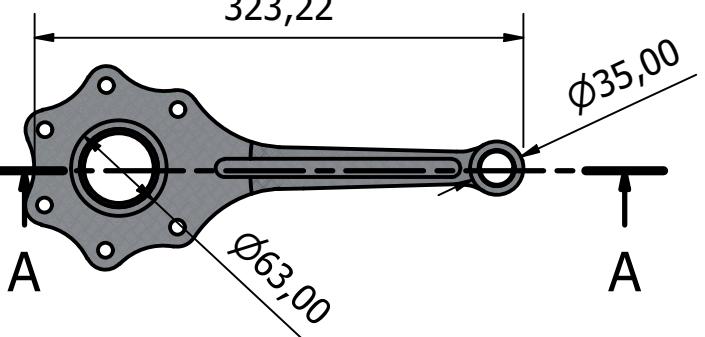
Data
26/07/2021

UFABC

Montagem da Biela com Pistão

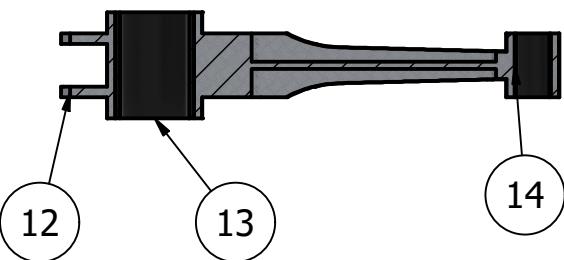
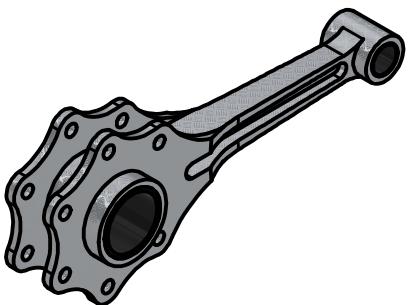
Edição
01

Folha
2 / 10

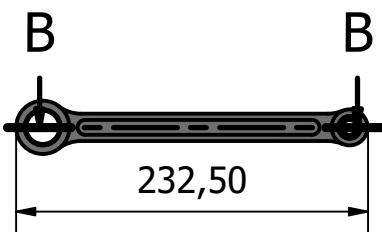
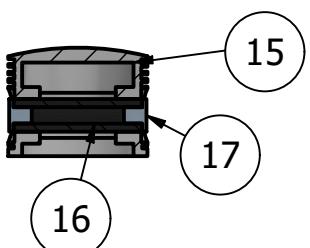
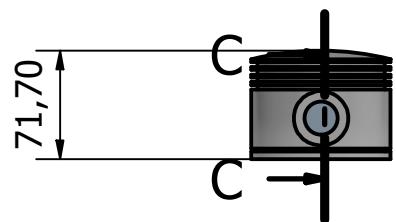


Vista A-A

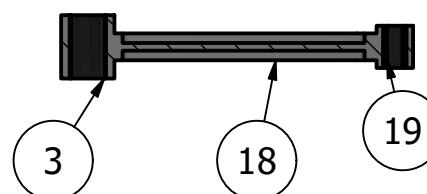
LISTA DE PEÇAS		
ITEM	QTDE	NÚMERO DA PEÇA
12	1	Biela Mestra
13	1	Bucha Principal do Pistão
14	1	Bucha Superior
15	1	Pistão
16	1	Pino do Pistão
17	2	Plug do Pistão
18	1	Biela Articulada
19	1	Bucha Inferior



Vista C-C



Vista B-B



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:5

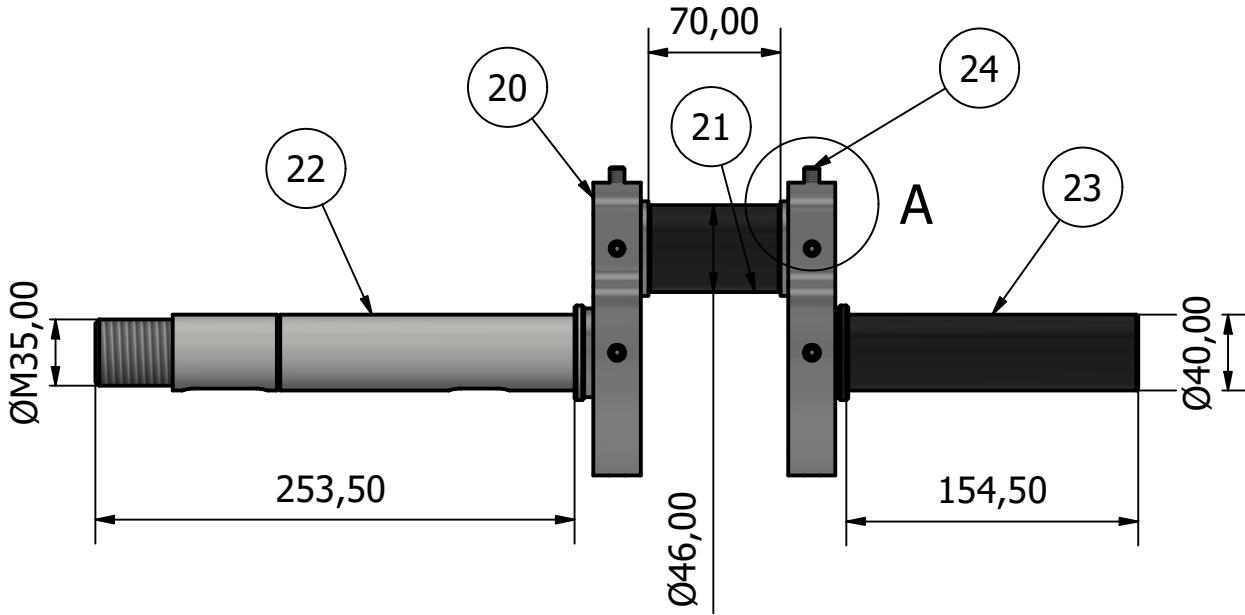
Data
26/07/2021

UFABC

Montagem das Bielas e Pistões

Edição
01

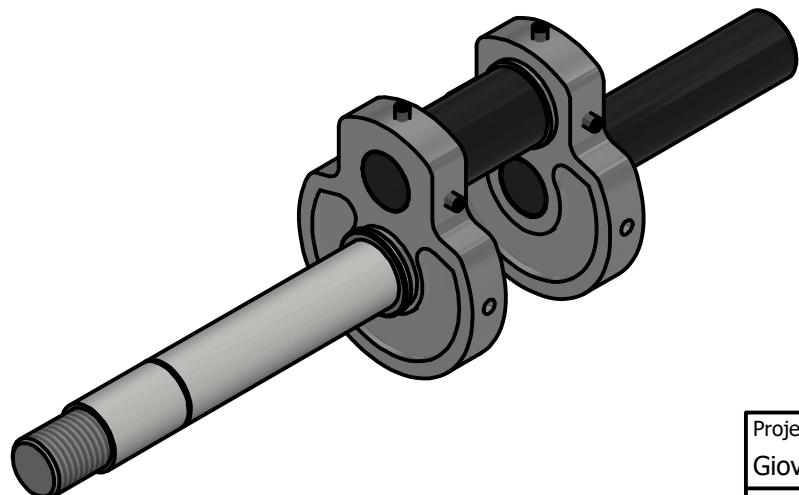
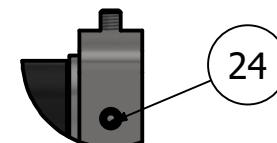
Folha
3 / 10



LISTA DE PEÇAS

ITEM	QTDE	NÚMERO DA PEÇA
20	2	Contrapeso
21	1	Eixo Central
22	1	Eixo Frontal
23	1	Eixo Traseiro
24	12	parafuso M8 x 25 sextavado interno

A (1 : 3)



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:4

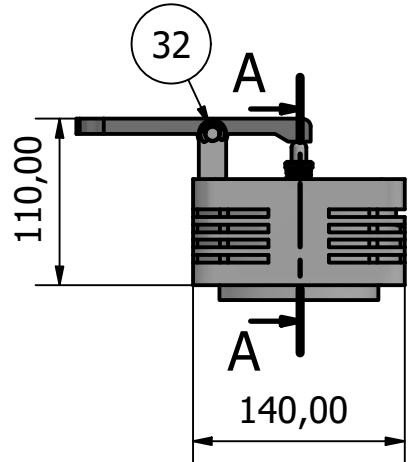
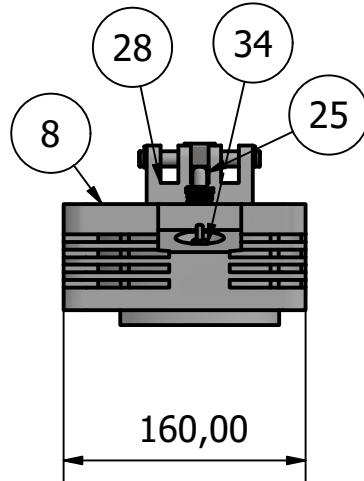
Data
26/07/2021

UFABC

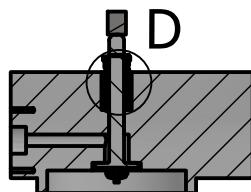
Montagem do Virabrequim

Edição
01

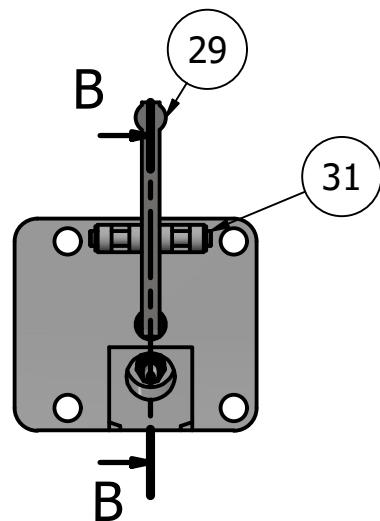
Folha
4 / 10



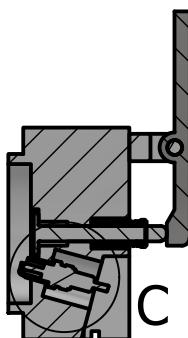
Vista A-A



Vista D

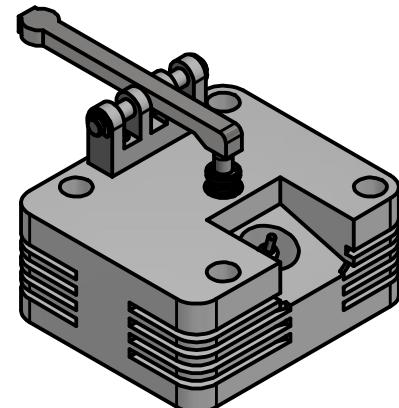


Vista B-B



Vista C

LISTA DE PEÇAS		
ITEM	QTDE	NÚMERO DA PEÇA
8	1	Cabeça do Cilindro
25	1	Válvula
26	1	Mola
27	1	Colar Superior
28	1	Suporte de Balacim
29	1	Balacim
30	2	Parafuso M4 x 20 de cabeça cilíndrica
31	1	Pino de Suporte
32	3	Arruela de retenção 6799 - 8
33	1	Anel da Vela
34	1	Vela



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:5

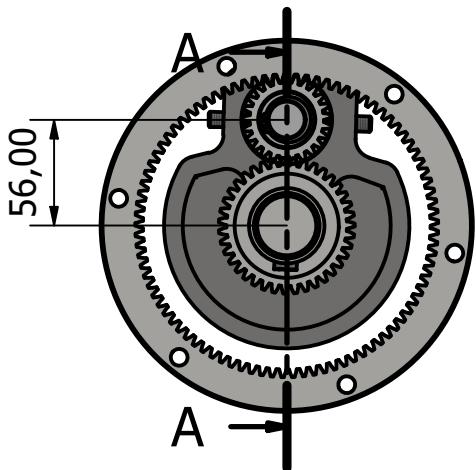
Data
26/07/2021

UFABC

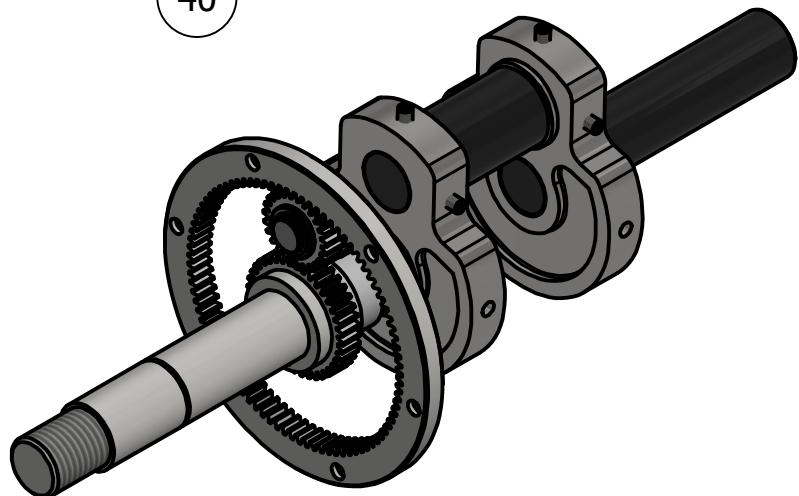
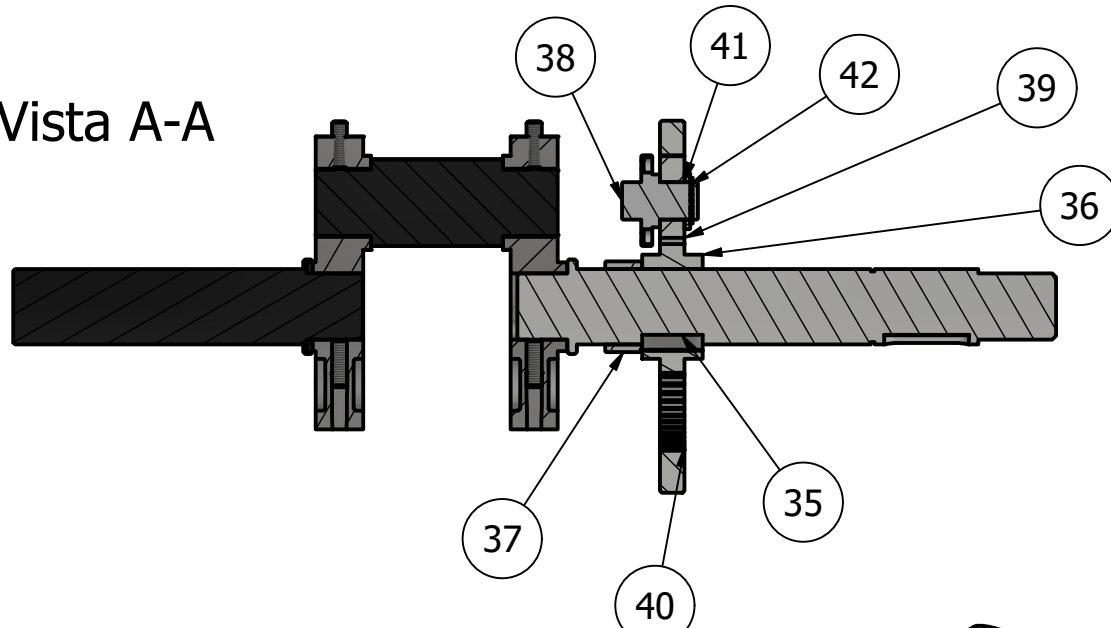
Montagem da Cabeça do Cilindro

Edição
01

Folha
5 / 10



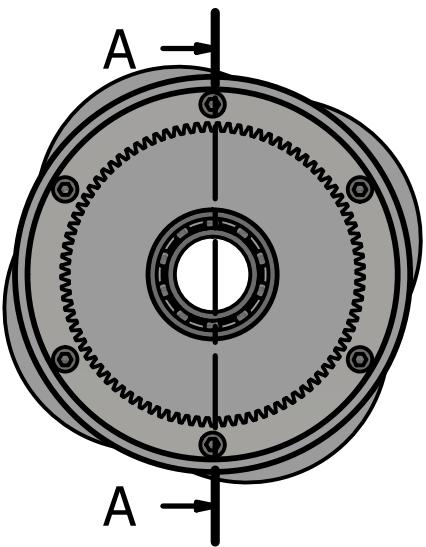
Vista A-A



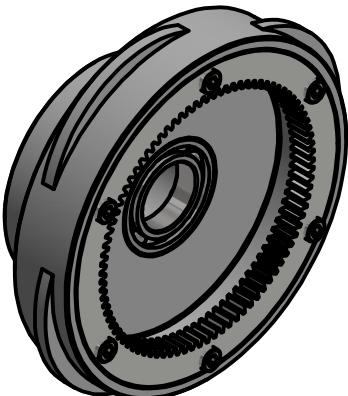
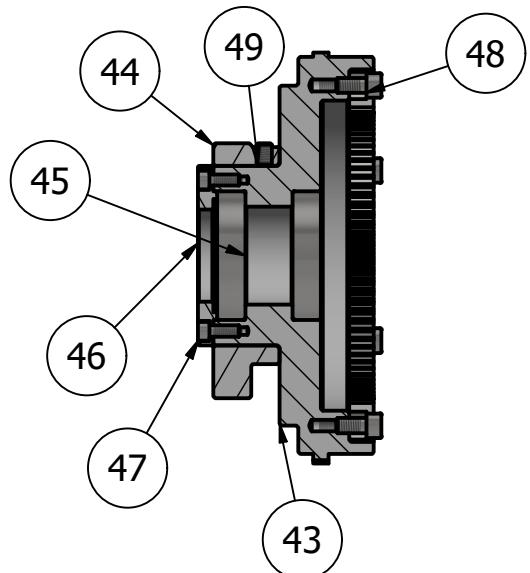
LISTA DE PEÇAS

ITEM	QTDE	NÚMERO DA PEÇA
35	1	Chaveta paralela - 12 x 8 x 32
36	1	Engrenagem Central 39
37	1	Bucha Espaçadora
38	1	Eixo da Engrenagem 25
39	1	Engrenagem Intermediária 25
40	1	Engrenagem Interna 89
41	1	Arruela 20
42	1	Anéis de retenção de eixo - 21x1,2

Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:4	Data 26/07/2021
UFABC		Montagem do Conjunto de Engrenagens			
				Edição 01	Folha 6 / 10



Vista A-A



LISTA DE PEÇAS

ITEM	QTDE	NÚMERO DA PEÇA
43	1	Came com Excêntrico
44	1	Excêntrico de Came
45	2	Mancais esférico de uma fileira 625 - SKF 6008
46	1	Tampa do Came
47	4	Parafuso M6 x 16 cabeça cilíndrica
48	6	Parafuso M8 x 16 cabeça cilíndrica
49	2	Parafuso Allen M8 x 12 de ajuste de cabeça

Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:4

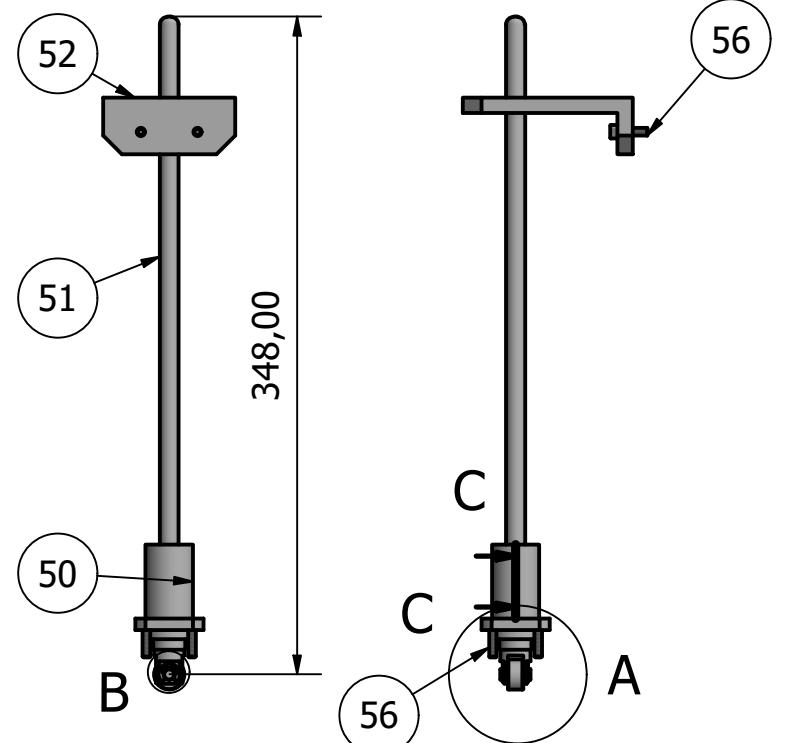
Data
26/07/2021

UFABC

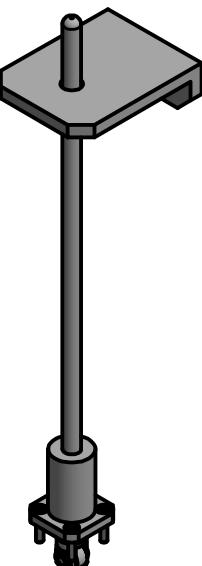
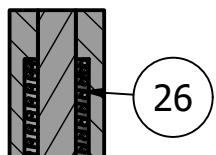
Montagem do Conjunto de Came

Edição
01

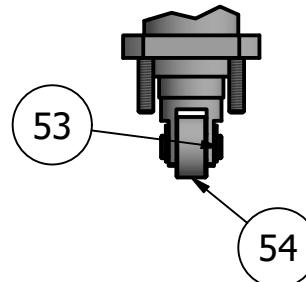
Folha
7 / 10



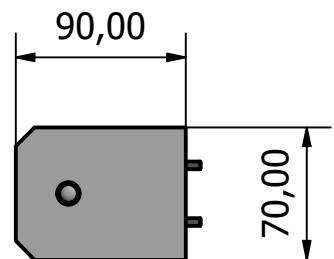
Vista C-C (1:2)



Vista A (1 : 2)



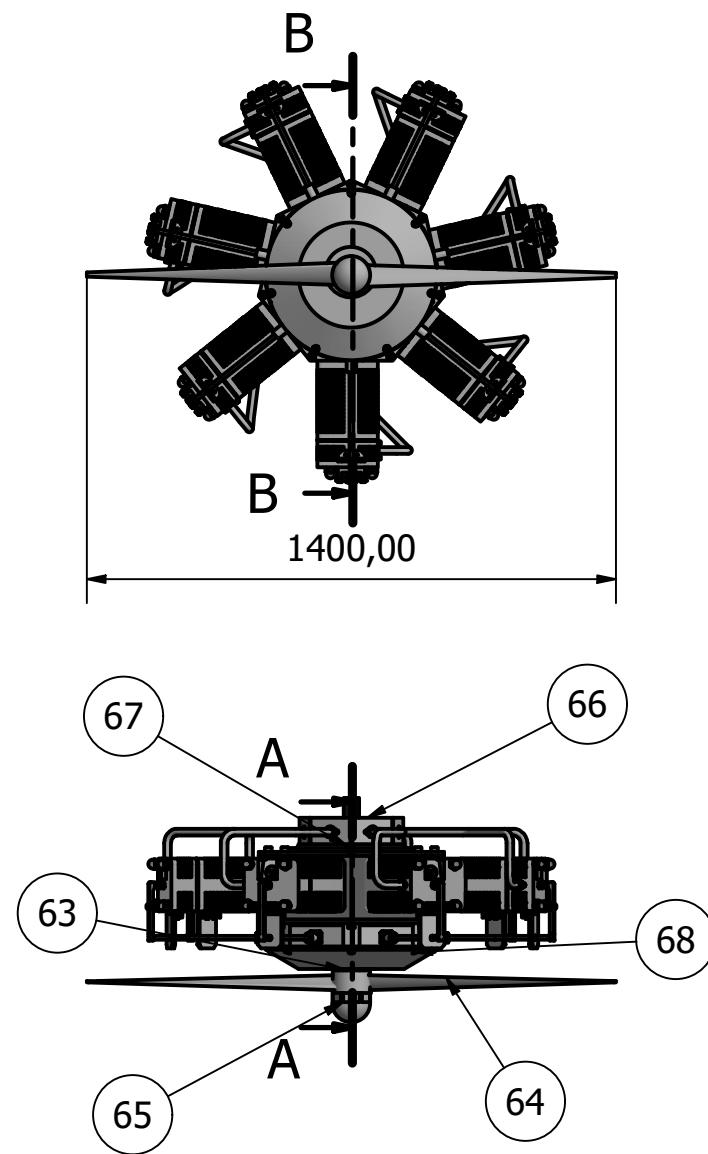
Vista B (1 : 2)



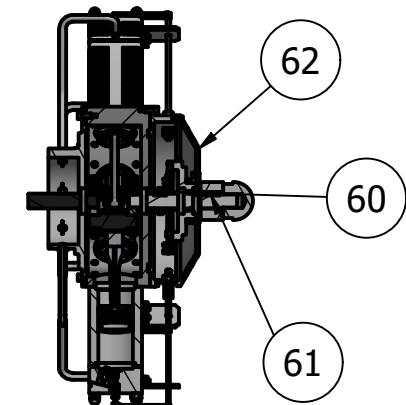
LISTA DE PEÇAS		
ITEM	QTDE	NÚMERO DA PEÇA
50	1	Câmera de Suporte
26	1	Mola de Compressão
51	1	Pino de Apoio
52	1	Suporte do Pino de Apoio
53	1	Eixo Seguidor
54	1	Rolete
55	2	Arruela de retenção 6799 - 5
56	6	Parafuso M4 x 16 cabeça cilíndrica

Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:4	Data 26/07/2021
UFABC			Montagem da Câmera de Apoio ao Cilindro		
				Edição 01	Folha 8 / 10

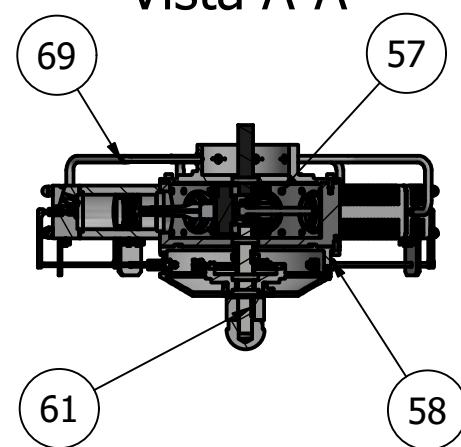
ITEM	QTDE	NÚMERO DA PEÇA
57	28	Viga M16x320
58	1	Alojamento de Came
59	1	Anel 20 x 1,2 de retenção de mola
60	1	Bucha Espaçadora 30,65
61	1	Chaveta A 12 x 8 x 45 paralela
62	1	Tampa Frontal
63	1	Anel 40 x 1,75 de retenção de mola
64	1	Hélice
65	1	Porca Giratória
66	1	Tampa do Carter Traseiro
67	14	Parafuso M12 x 25 de cabeça cilíndrica
68	7	Parafuso M8 x 20 de cabeça cilíndrica
69	7	Tubo de Admissão



Vista B-B



Vista A-A



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por
Data

Legenda
1:20

Data
26/07/2021

UFABC

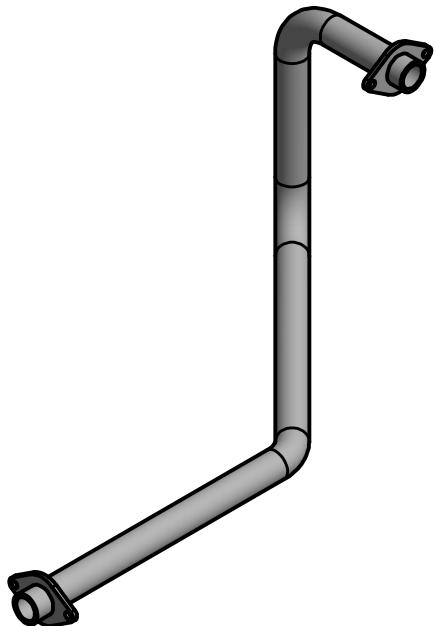
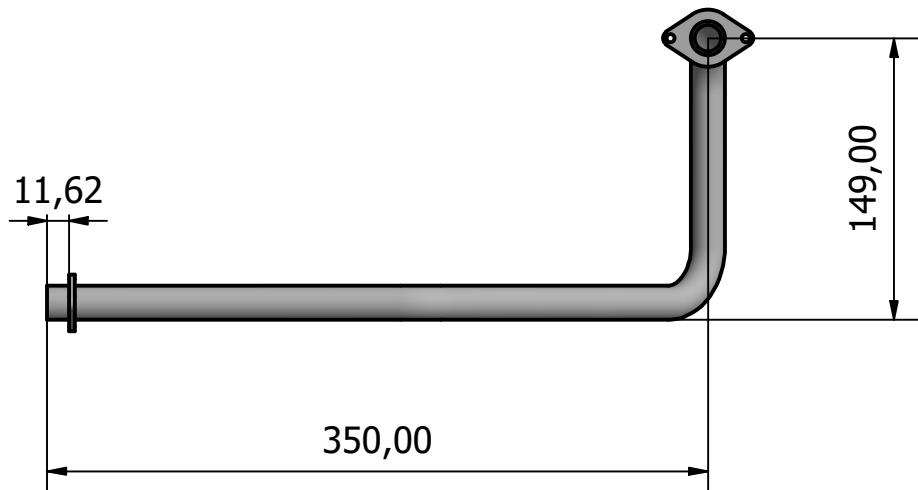
Montagem do Motor Radial

Edição
01

Folha
9 / 10

LISTA DE PEÇAS

ITEM	QTDE	NÚMERO DA PEÇA
70	1	Tubo
71	2	Conecotor



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:4

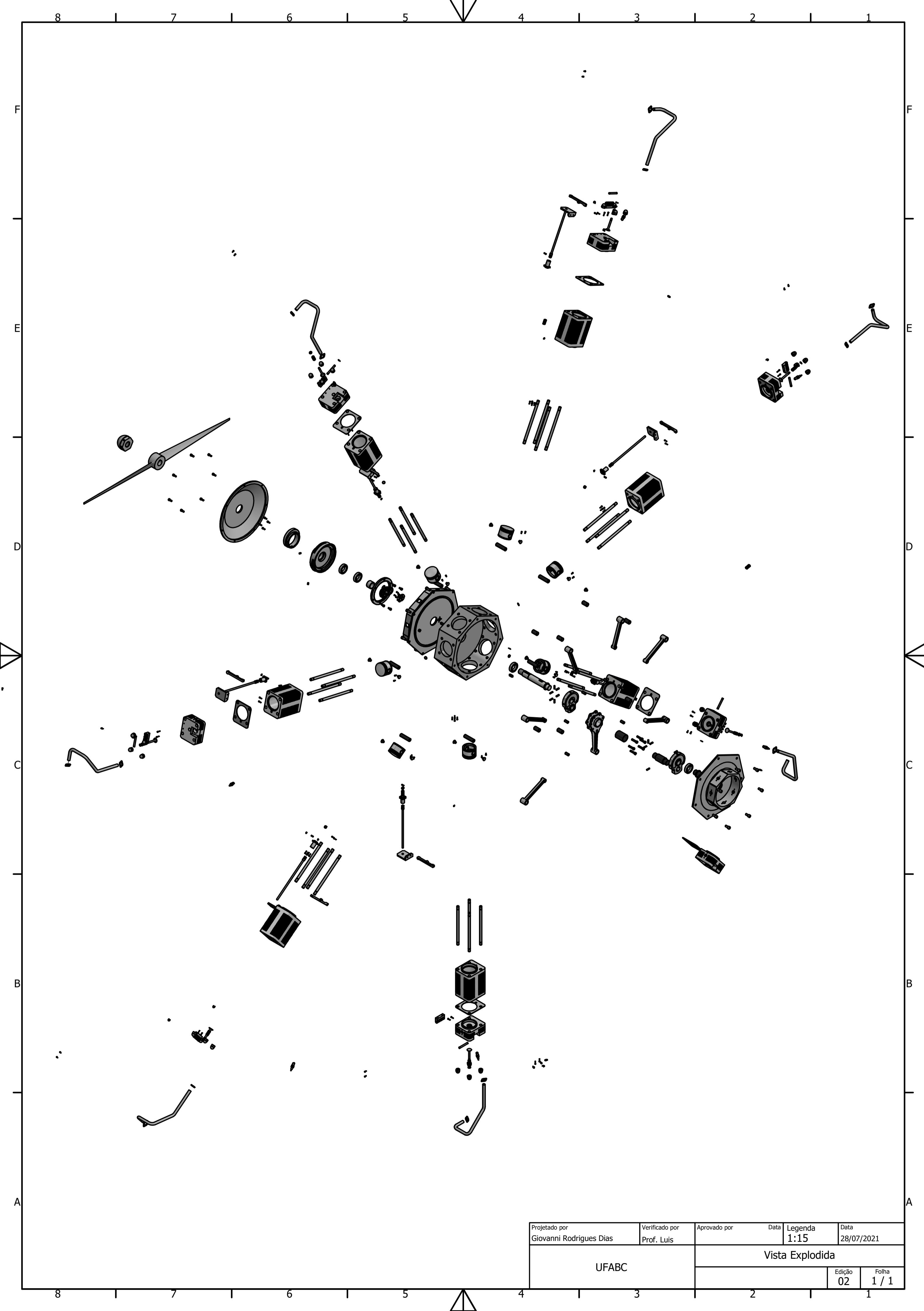
Data
26/07/2021

UFABC

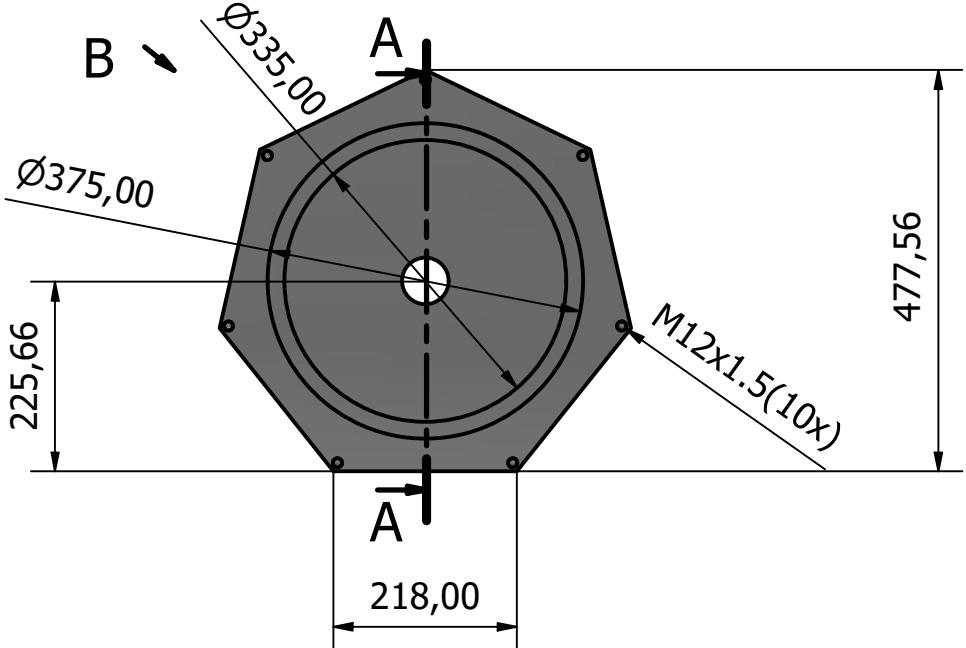
Montagem do Tubo de Admissão

Edição
01

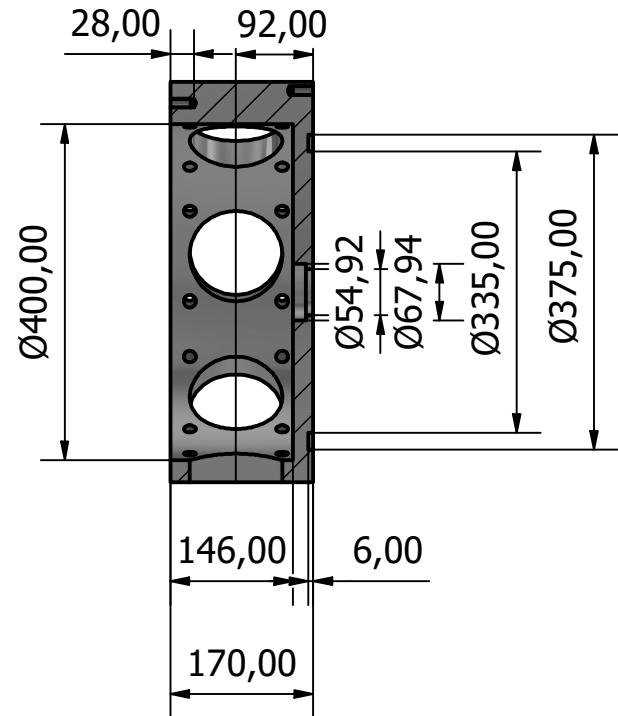
Folha
10 / 10



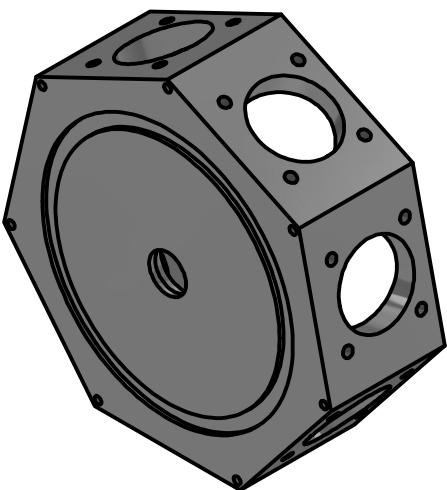
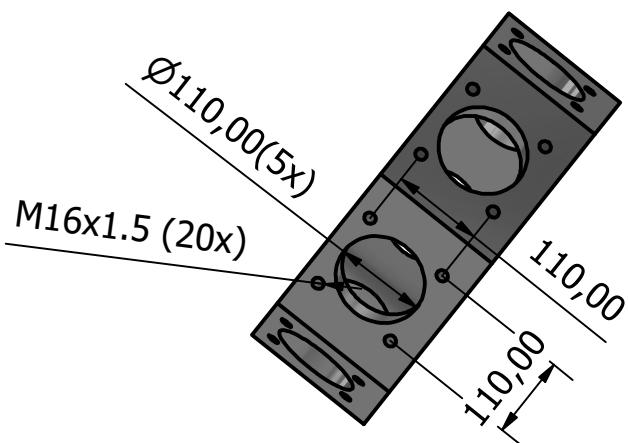
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data 1:15	Data 28/07/2021
Vista Explodida				
UFABC				
			Edição 02	Folha 1 / 1



Vista A-A



Vista B



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data
Legenda
1:9

Data
27/07/2021

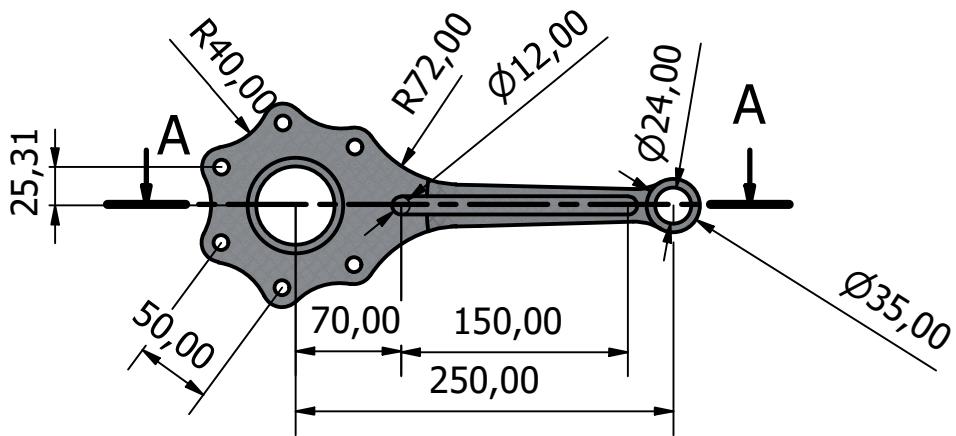
UFABC

01

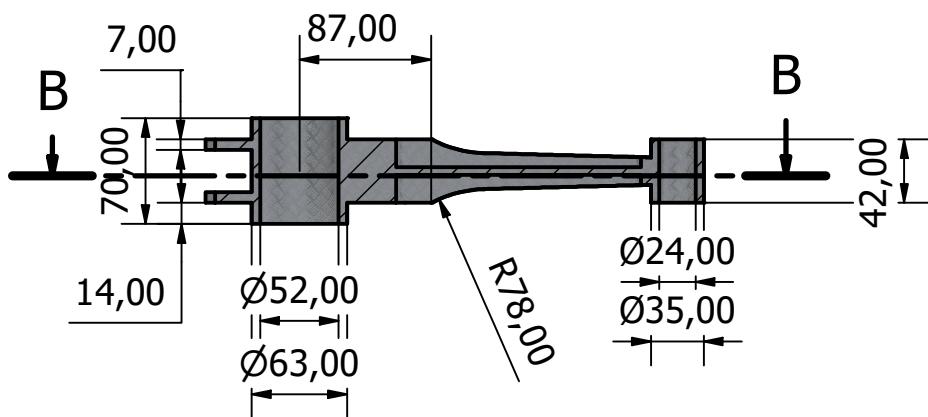
Bloco do Motor

Edição
01

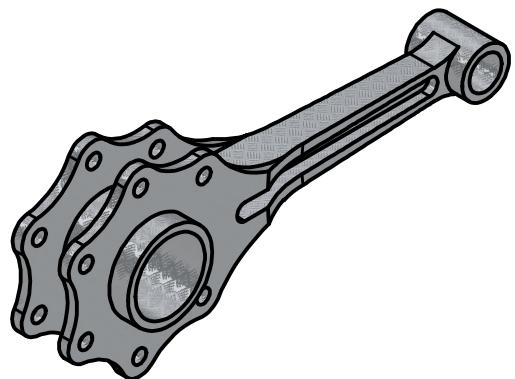
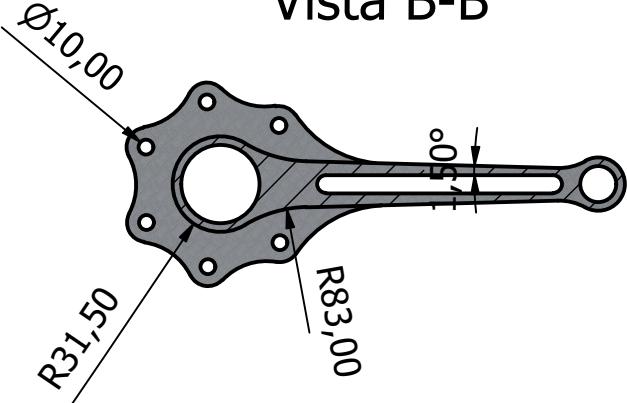
Folha
1 / 41



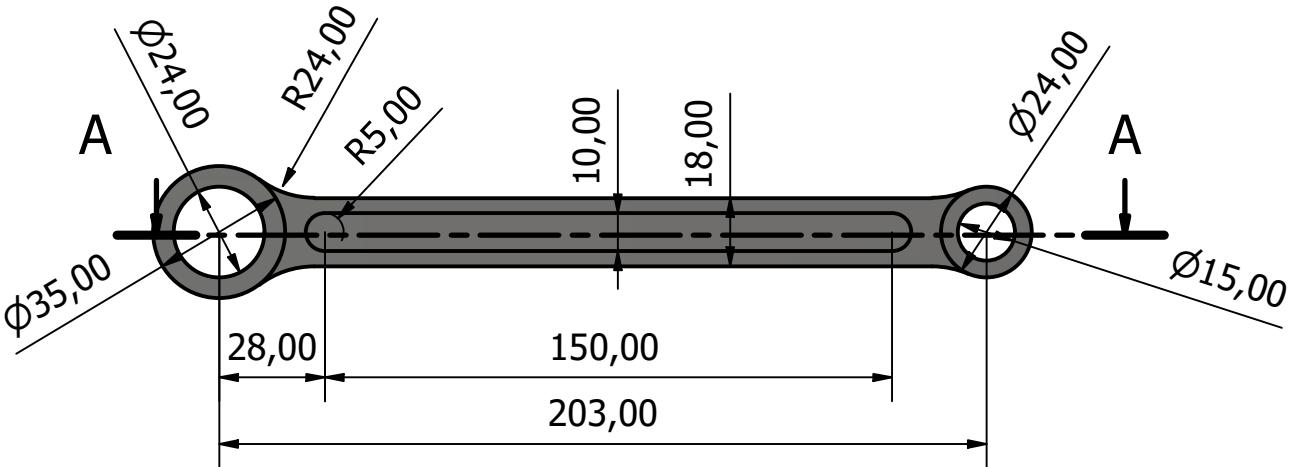
Vista A-A



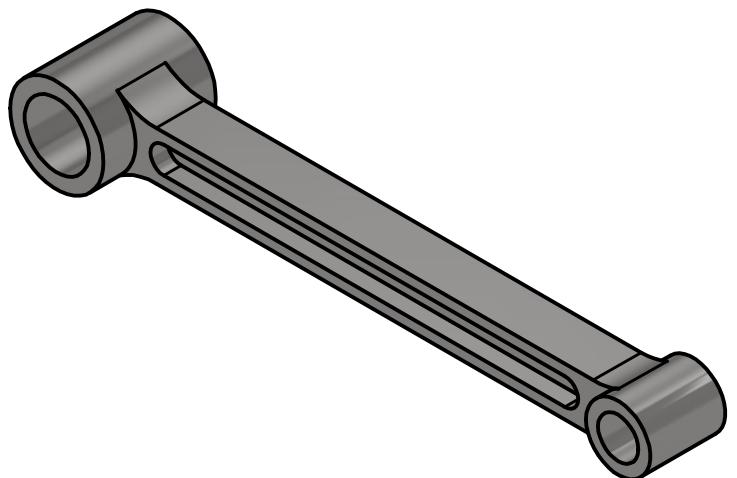
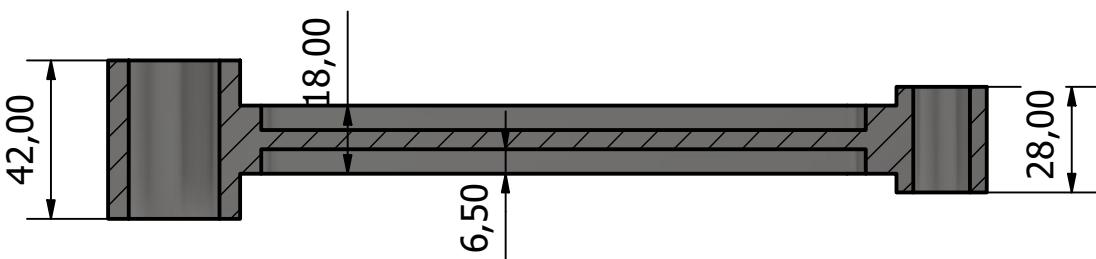
Vista B-B



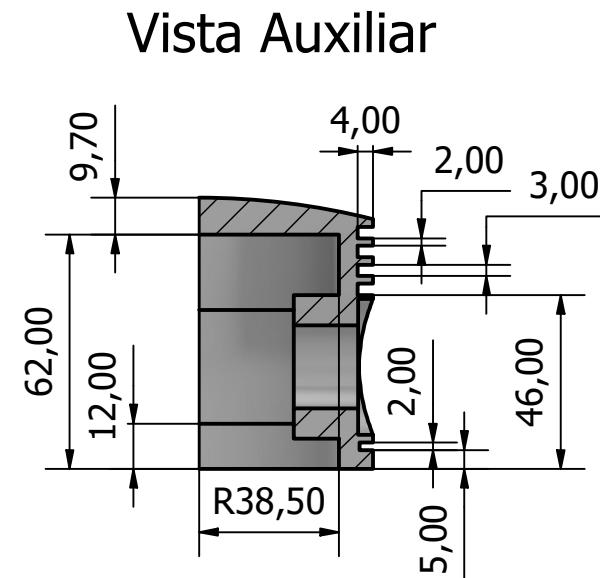
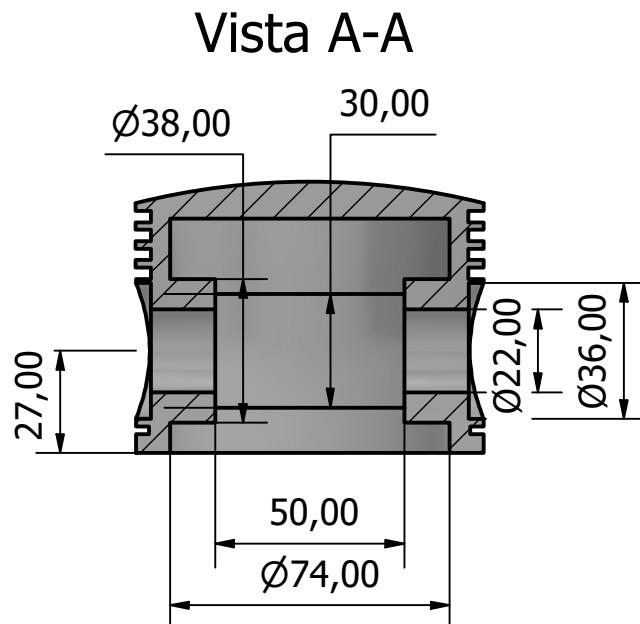
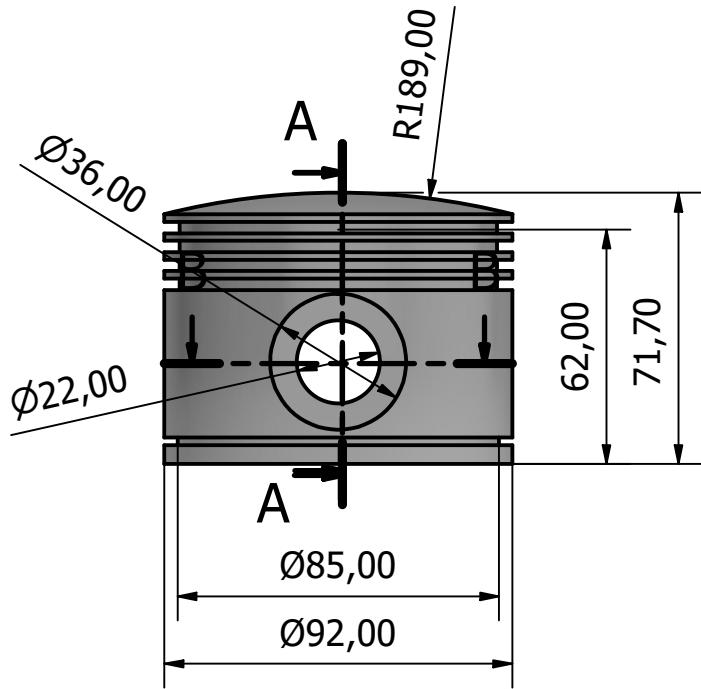
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:5	Data 26/07/2021
UFABC			Biel Mesta		
12		Edição 01		Folha 2 / 41	



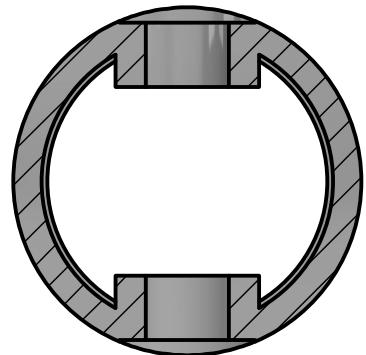
Vista A-A



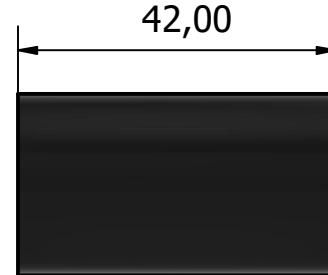
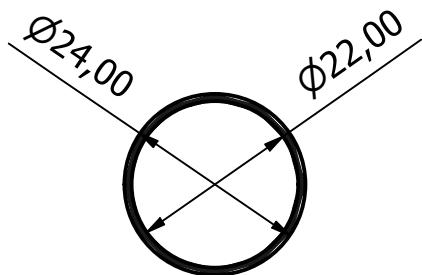
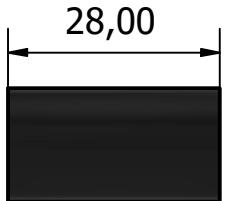
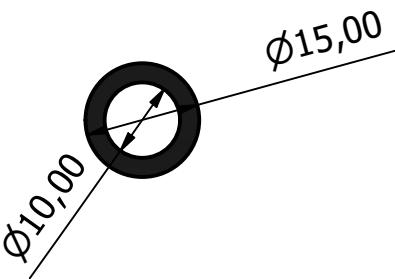
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 26/07/2021
UFABC		Bela Articulada			
18		Edição 01		Folha 3 / 41	



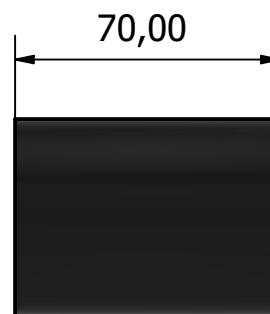
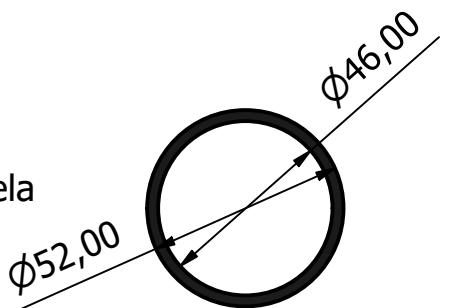
Vista B-B



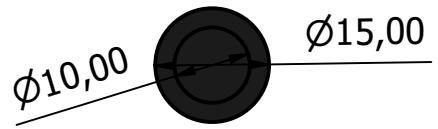
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 26/07/2021
UFABC			Pistão		
		15		Edição 01	Folha 4 / 41



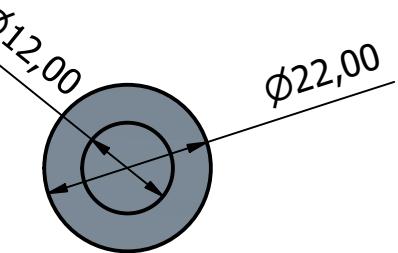
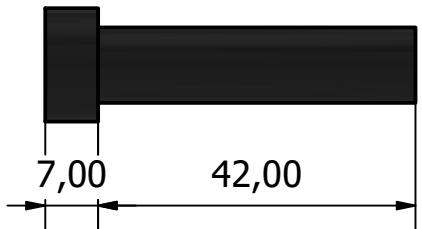
Peça 13 - Bucha da Biela Mestre



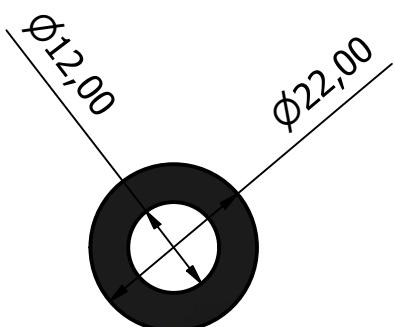
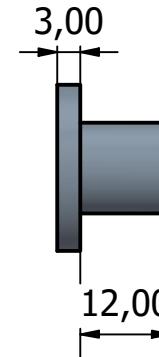
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 27/07/2021
UFABC		Buchas para as Bielas			
13,14,19		Edição 01		Folha 5 / 41	



Peça 11 - Pino de Conexão



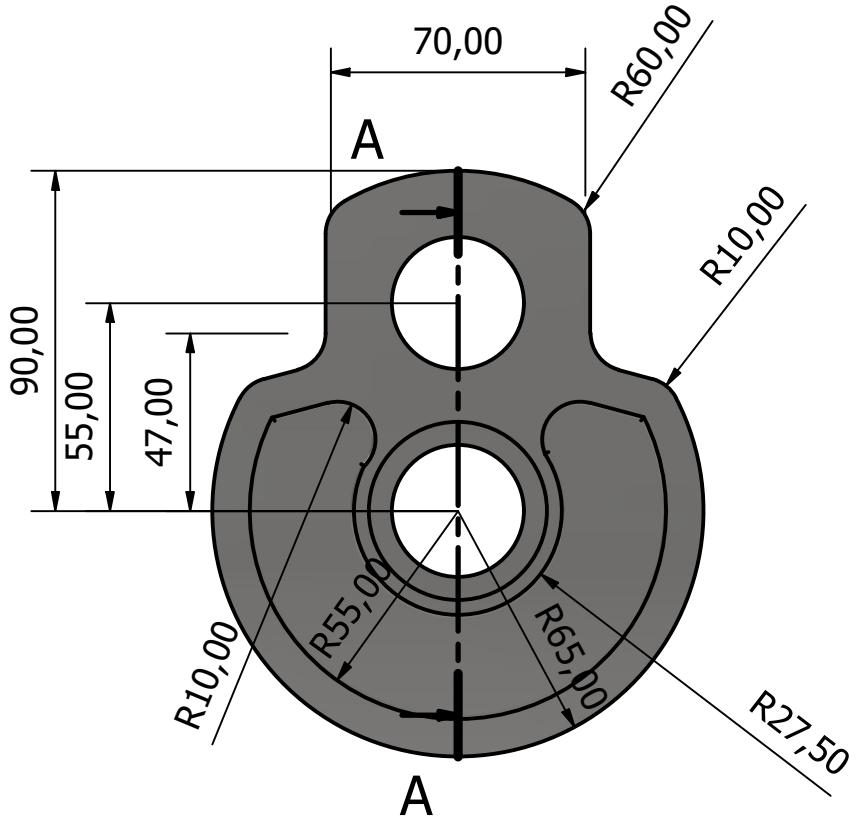
Peça 17 - Plug do Pistão



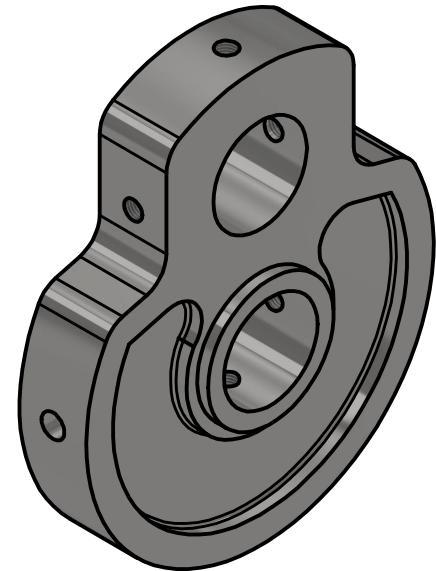
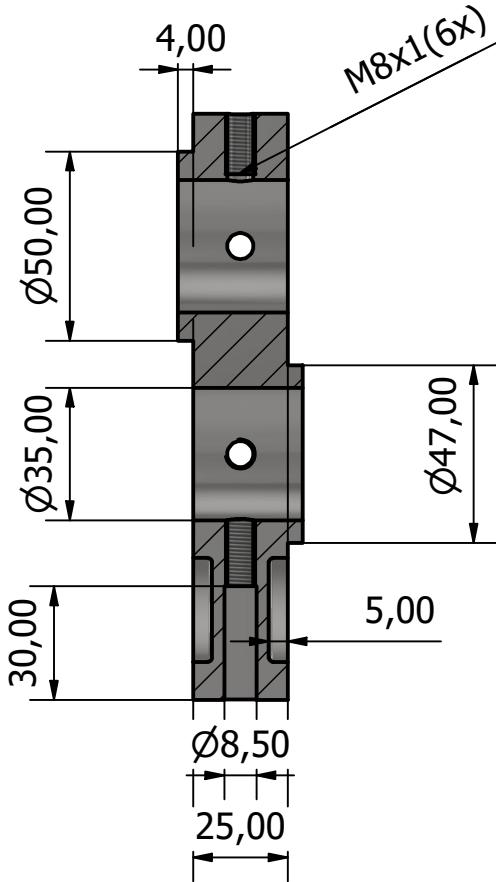
Peça 16 - Pino do Pistão



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC		Peças de Ligação do Pistão e Biela			
11, 16 e 17		Edição 01		Folha 6 / 41	



Vista A-A



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data
Legenda
1:2

Data
27/07/2021

UFABC

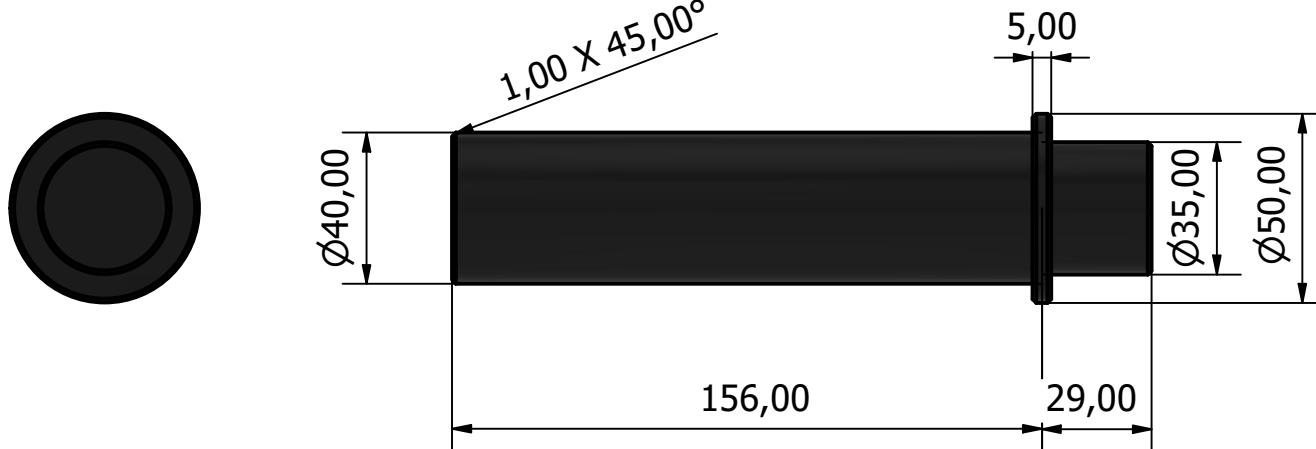
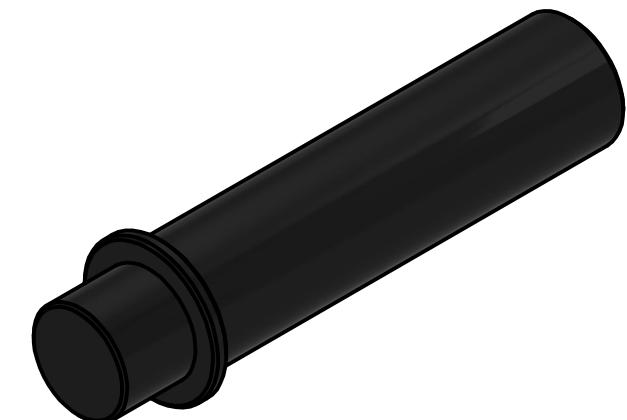
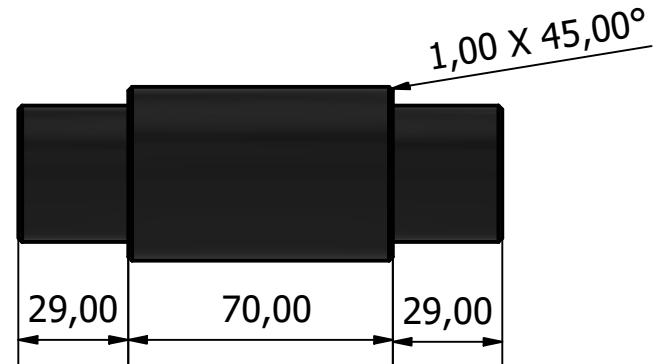
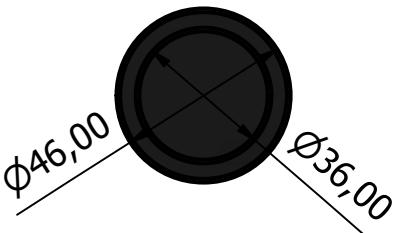
20

Contrapeso

Edição
01

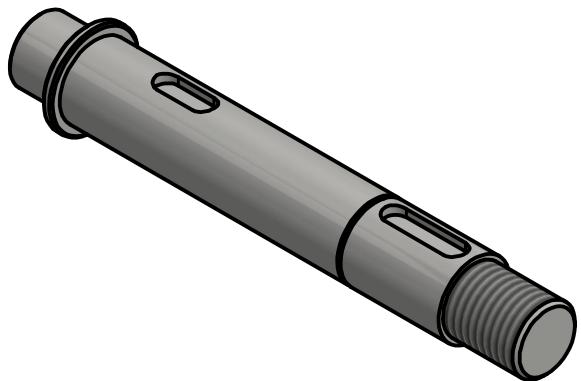
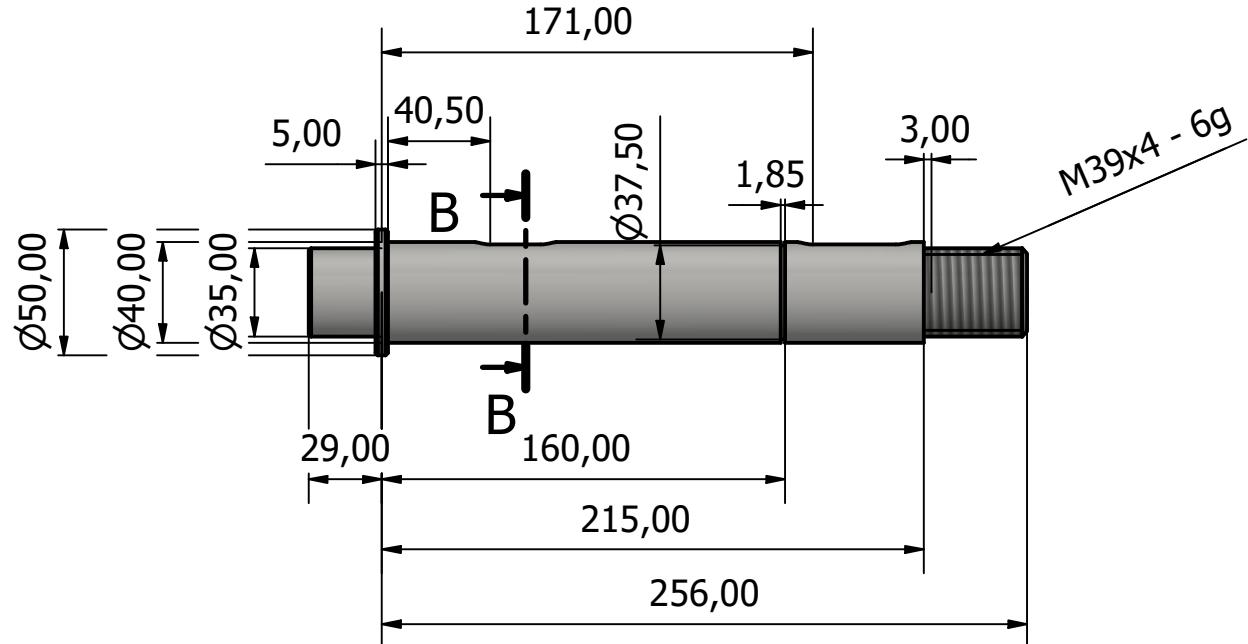
Folha
7 / 41

Peça 21 - Eixo Central

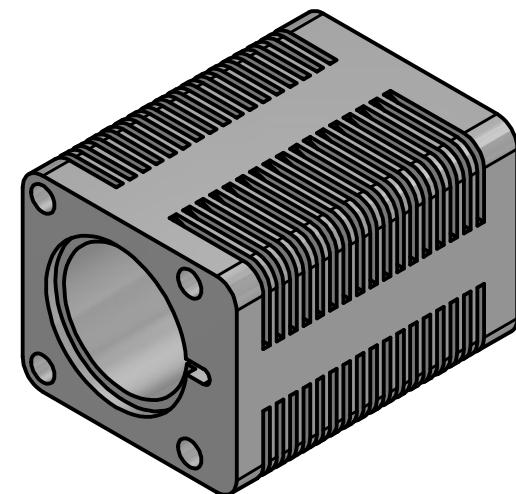
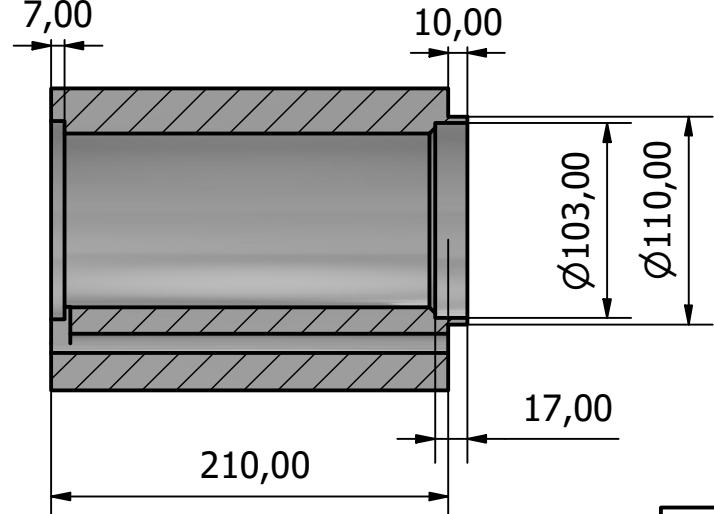
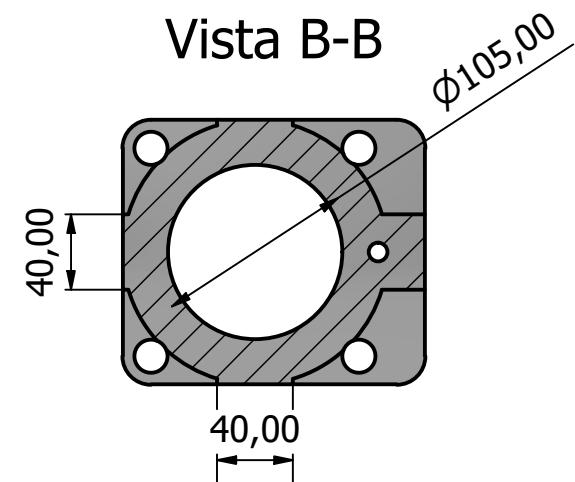
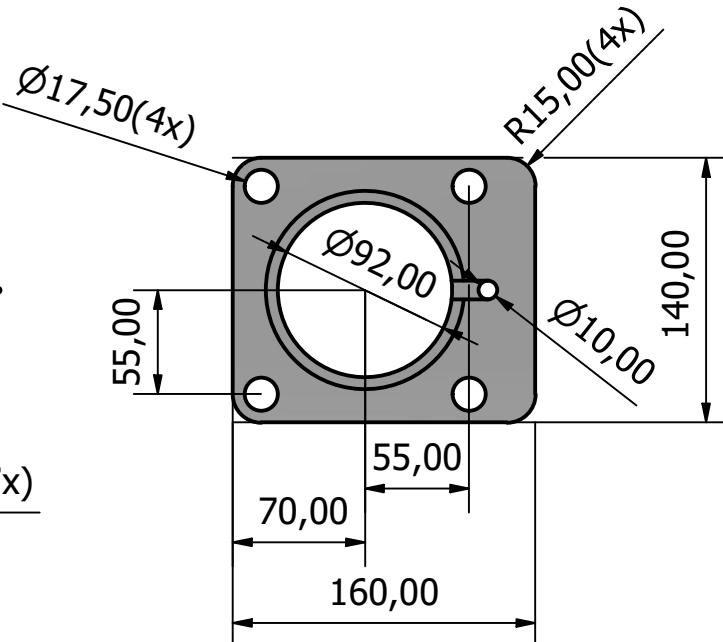
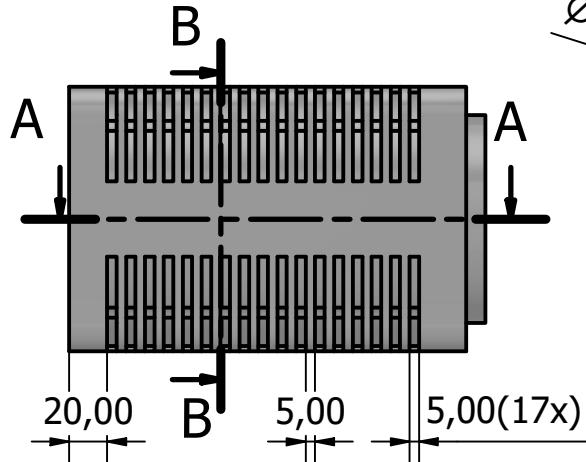


Peça 23 - Eixo Traseiro

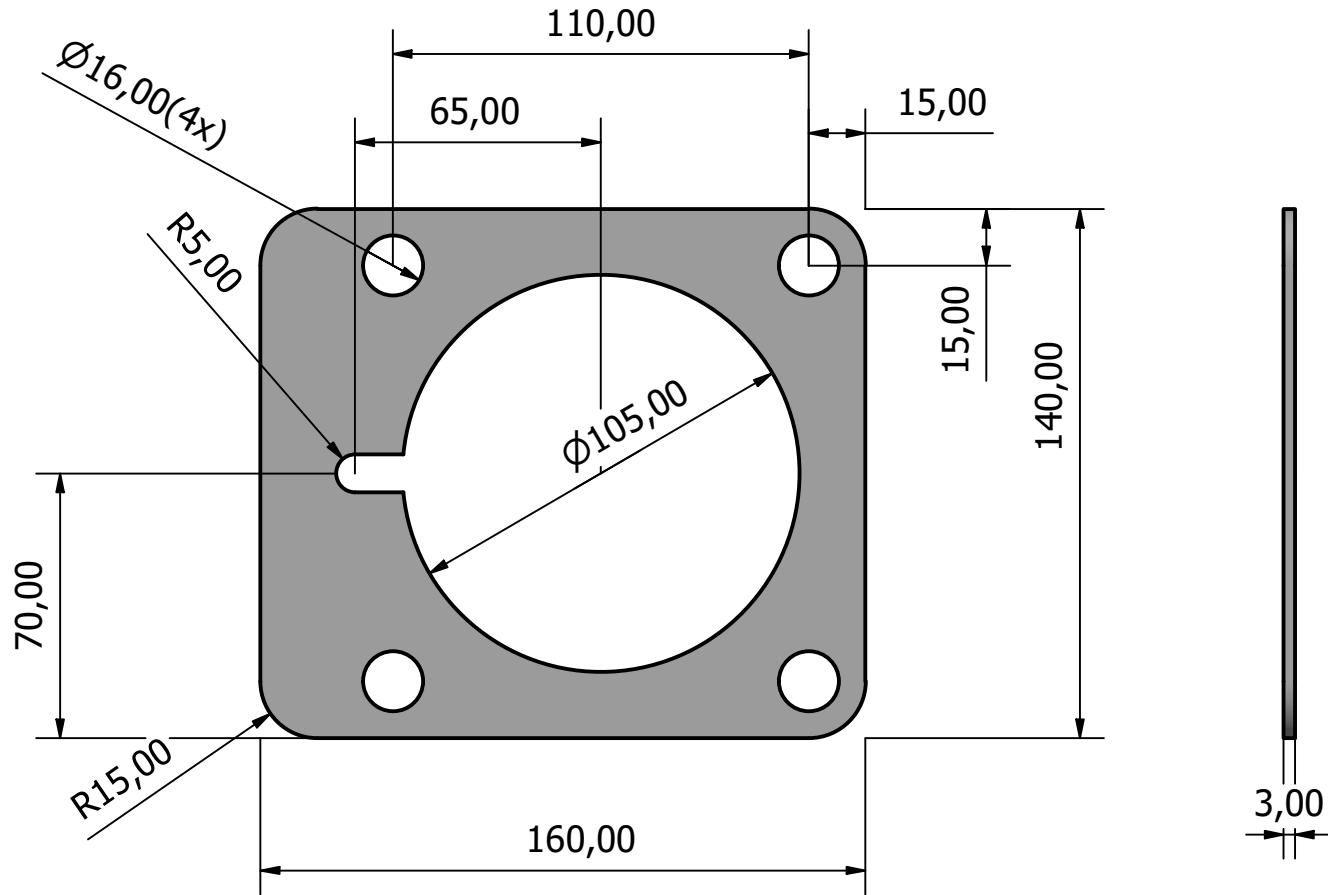
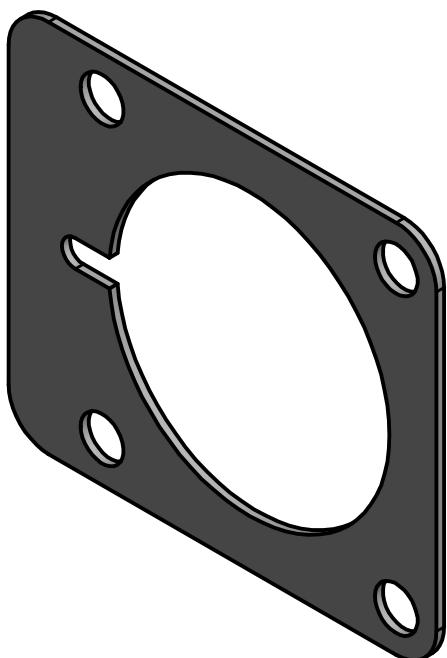
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 27/07/2021
UFABC		Eixos do Virabrequim			
		21 e 23		Edição 01	Folha 8 / 41



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:3	Data 26/07/2021
UFABC		Eixo Frontal			
22		Edição 01		Folha 9 / 42	



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:4	Data 27/07/2021
UFABC			Cilindro		
		6		Edição 01	Folha 10 / 42



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

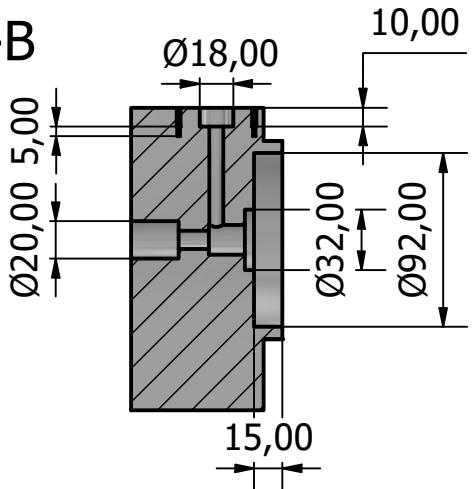
Legenda
1:2

Data
26/07/2021

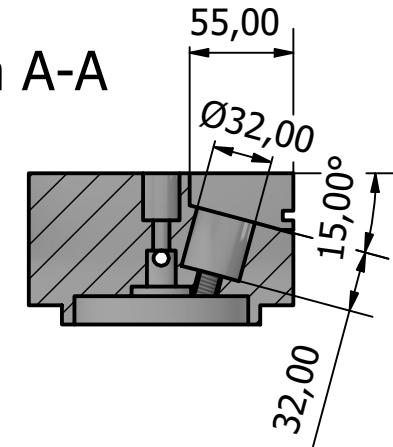
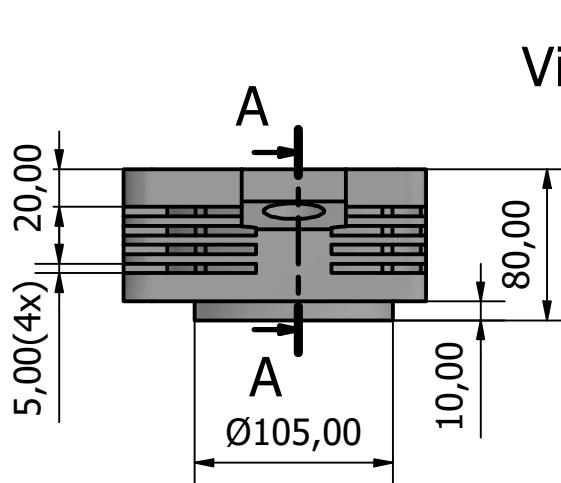
UFABC

Junta do Cilindro

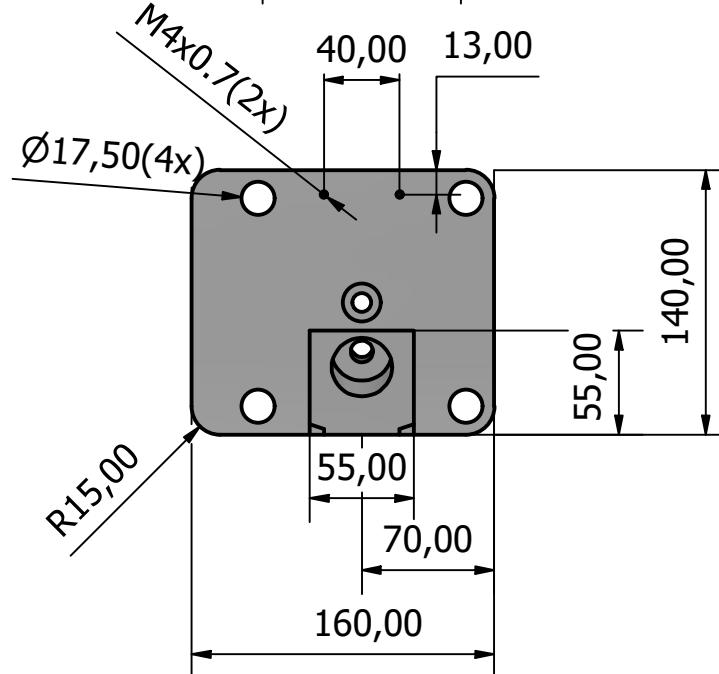
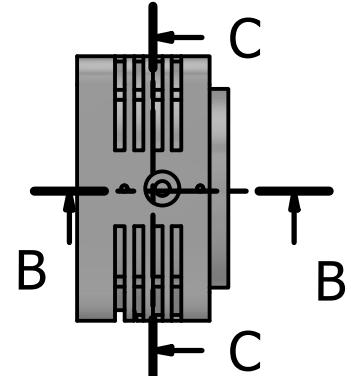
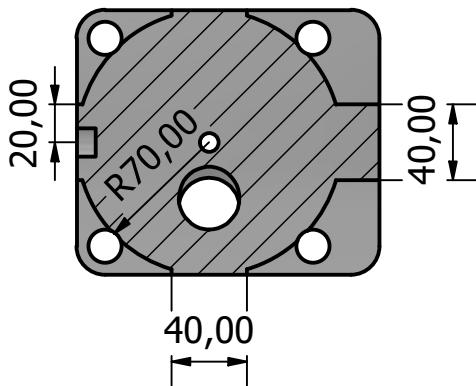
Vista B-B



Vista A-A



Vista C-C



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:4

Data
26/07/2021

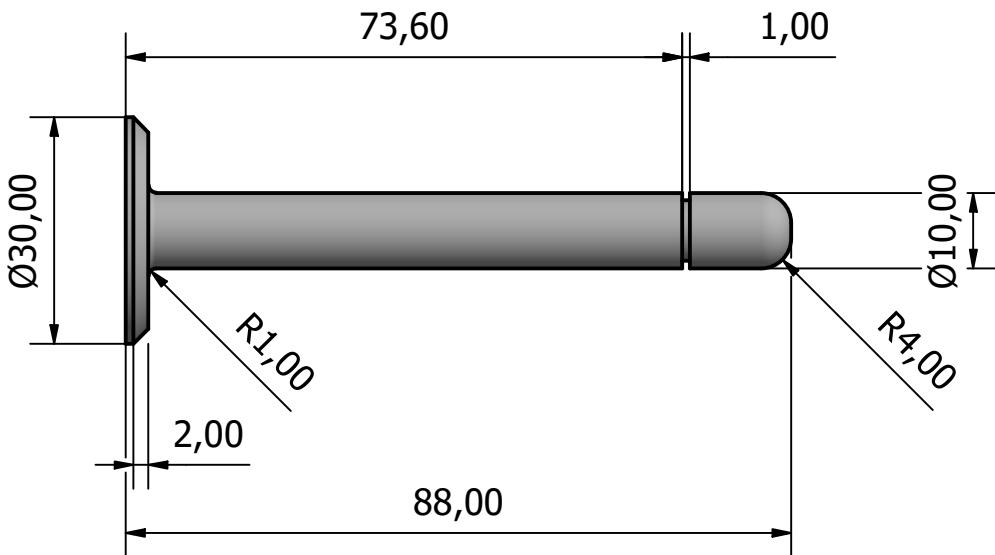
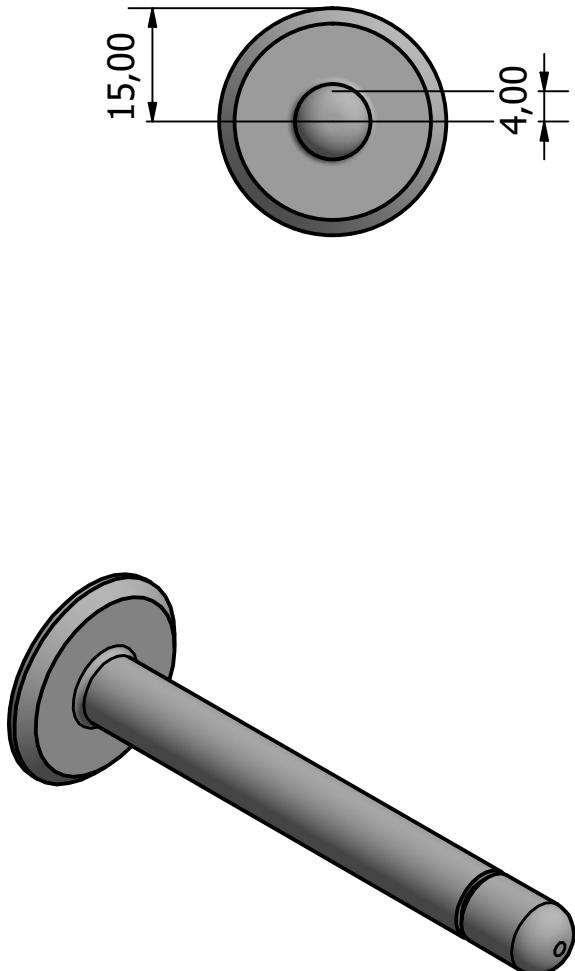
UFABC

Cabeça do Cilindro

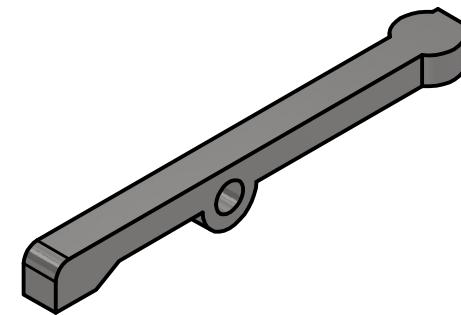
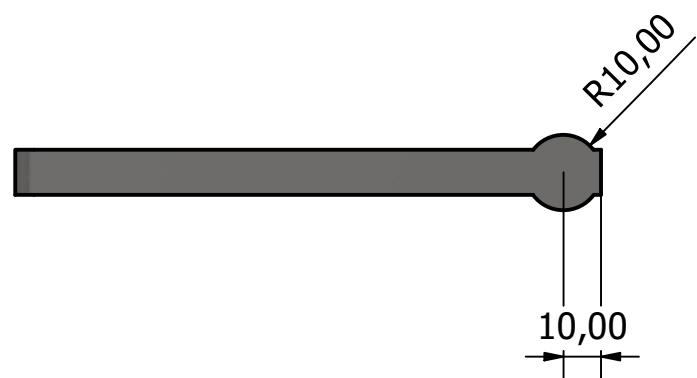
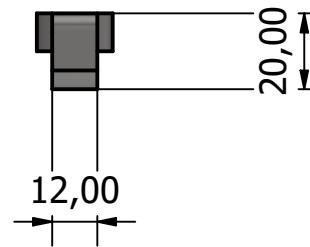
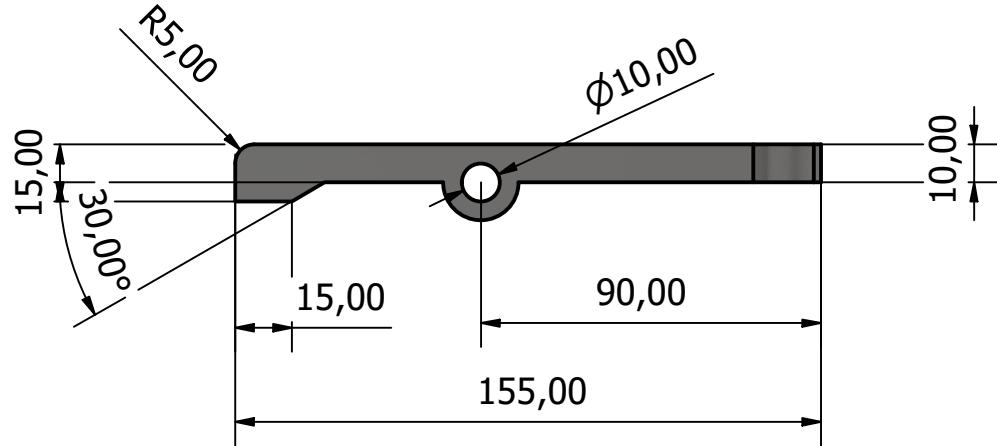
08

Edição
01

Folha
12 / 41



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 26/07/2021
UFABC		Válvula			
25		Edição 01		Folha 13 / 41	



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:2

Data
26/07/2021

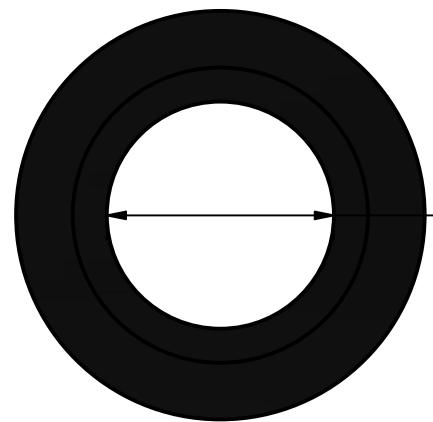
UFABC

29

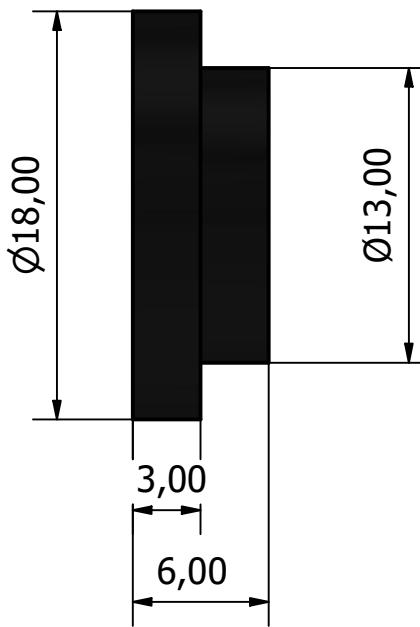
Balacim

Edição
01

Folha
14 / 41



$\varnothing 10,00$



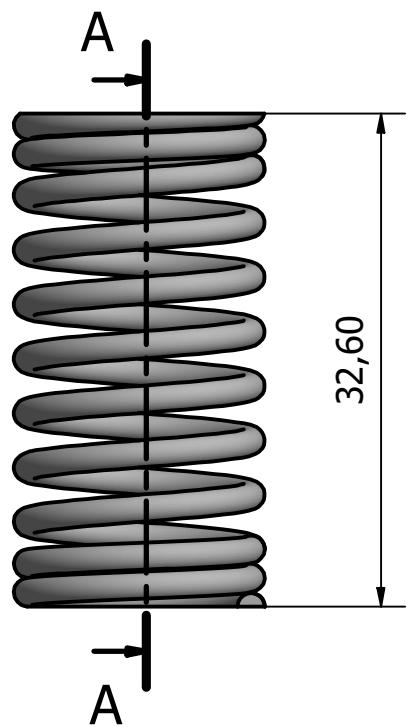
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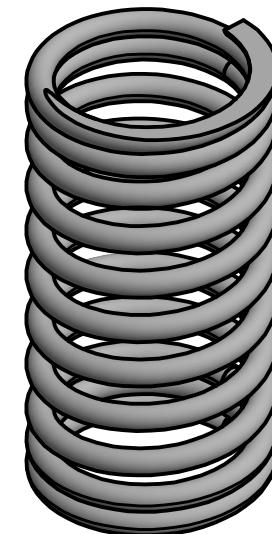
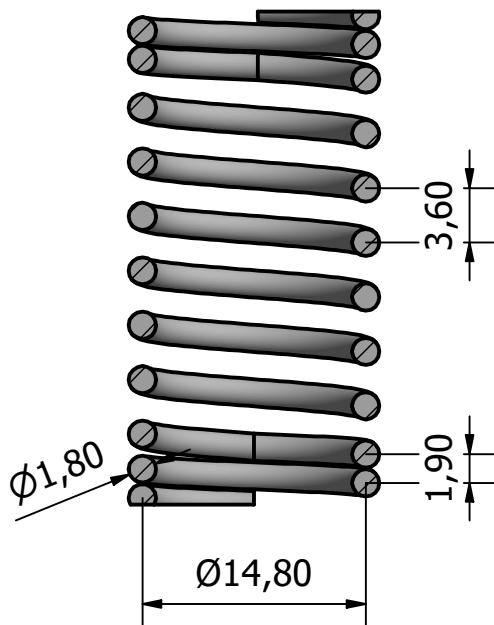
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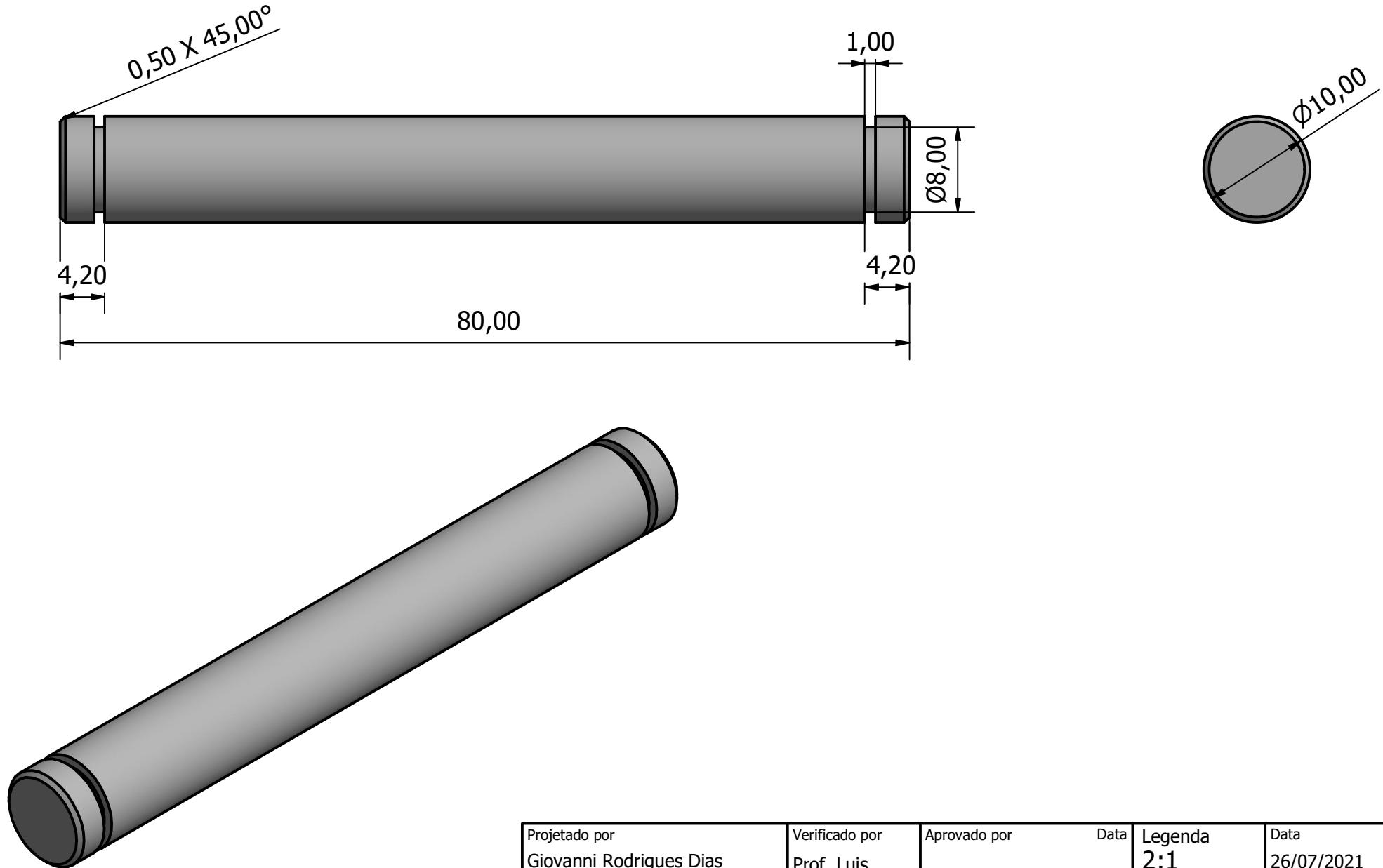
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 3:1	Data 26/07/2021
UFABC		Colar Superior			
		27		Edição 01	Folha 15 / 41



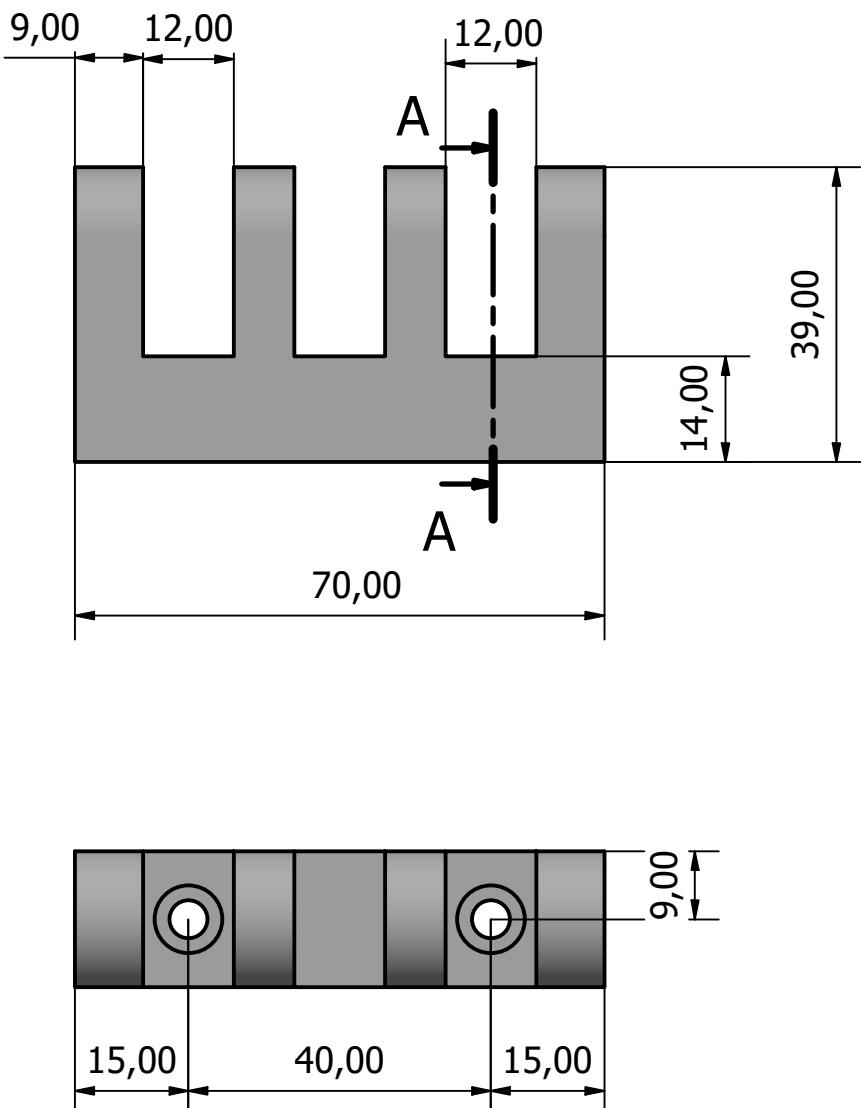
Vista A-A



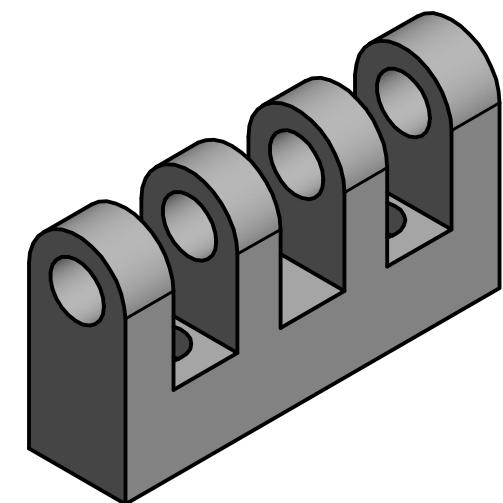
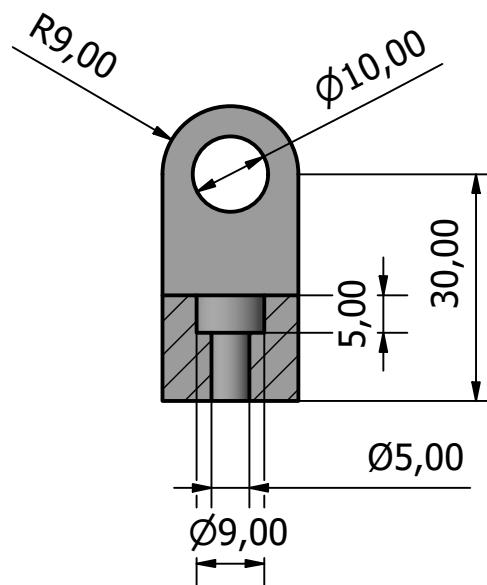
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data 2:1	Data 26/07/2021
UFABC		Mola		
26		Edição 01	Folha 16 / 41	



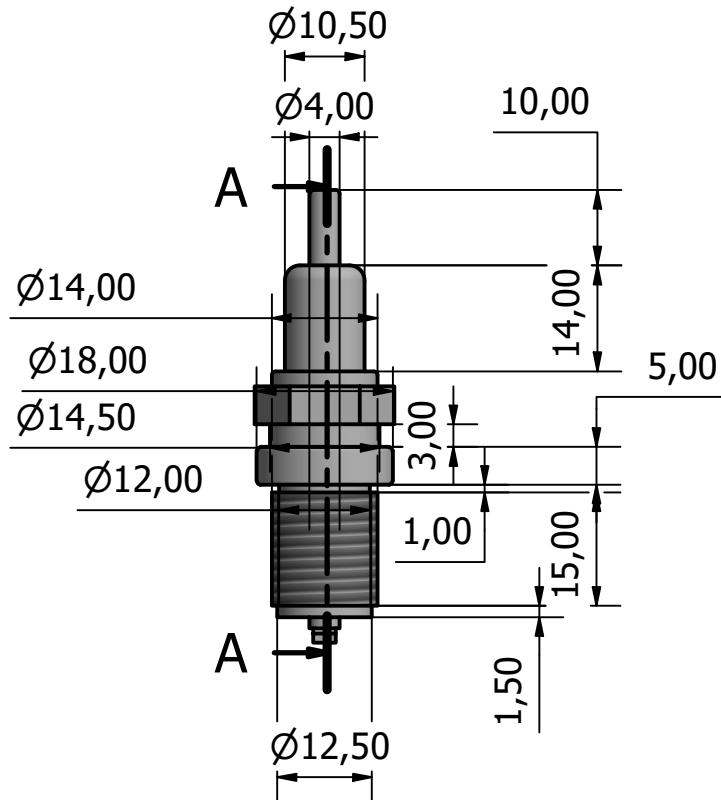
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 2:1	Data 26/07/2021
UFABC		Pino de Suporte			
31		Edição 01		Folha 17 / 41	



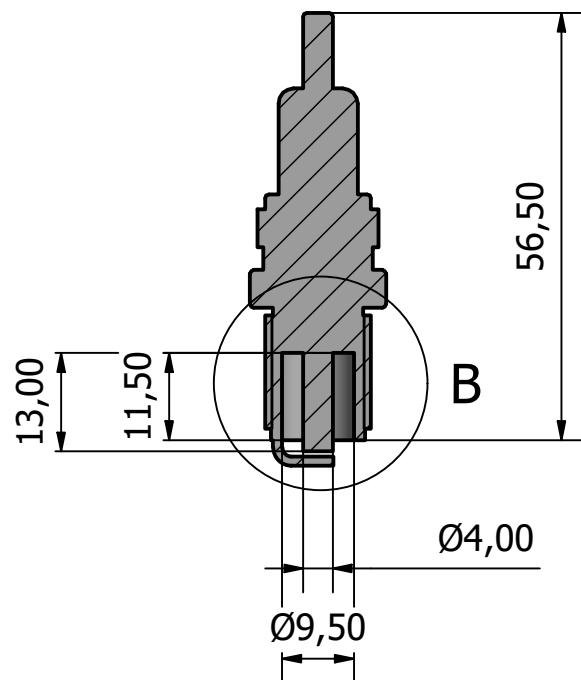
Vista A-A



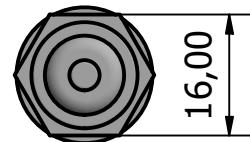
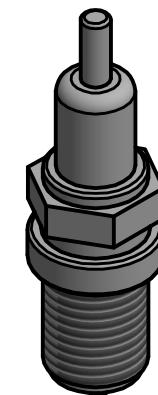
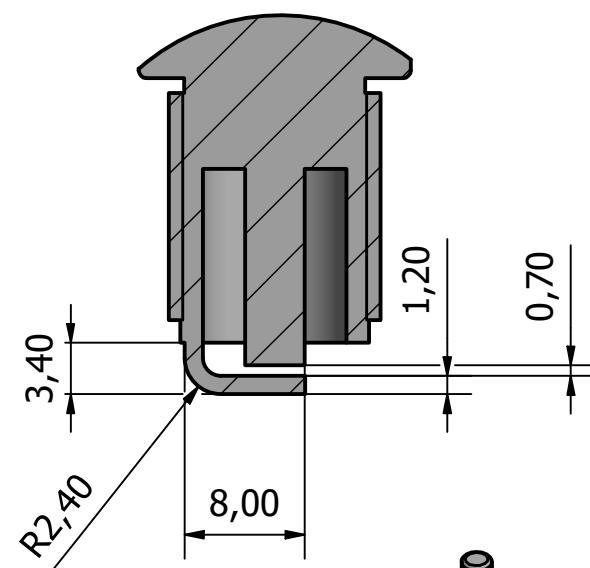
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 26/07/2021
UFABC		Suporte do Balacim			
28		Edição 01		Folha 18 / 41	



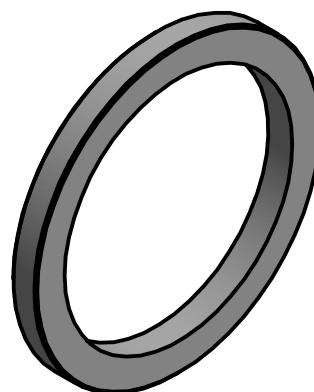
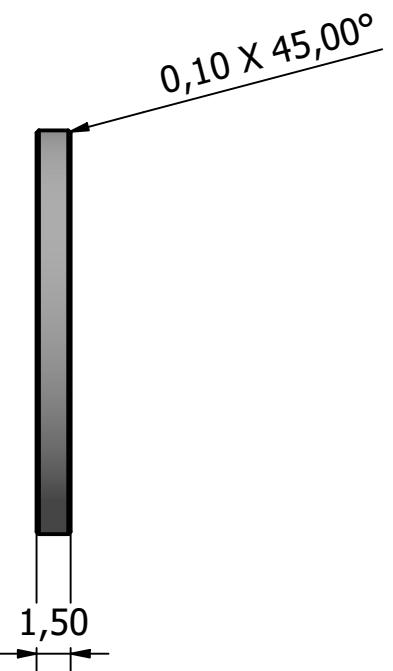
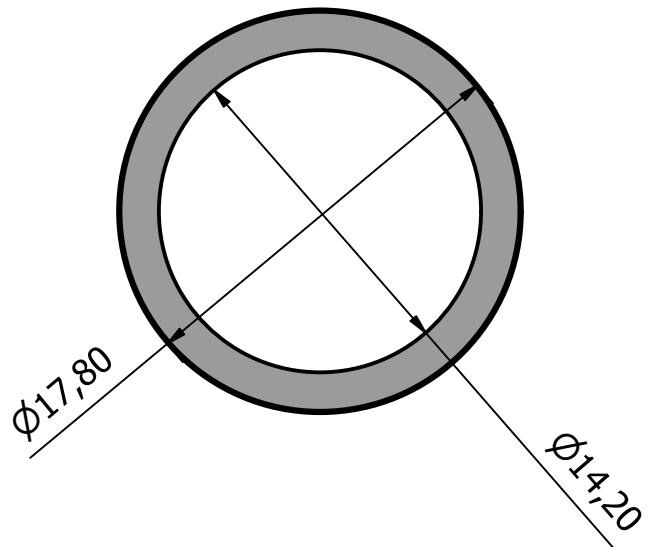
Vista A-A



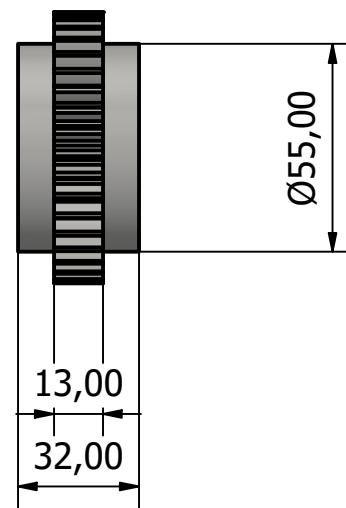
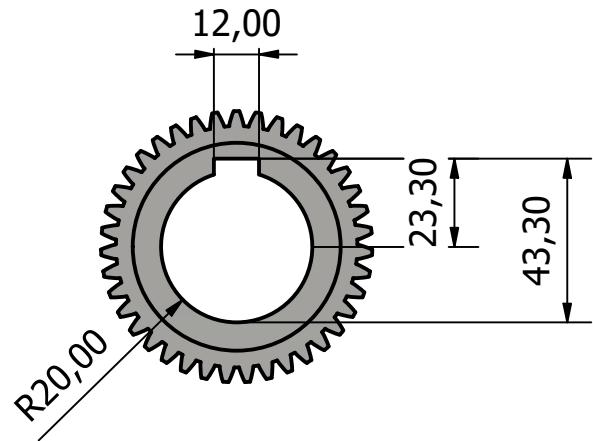
Vista B (2 : 1)



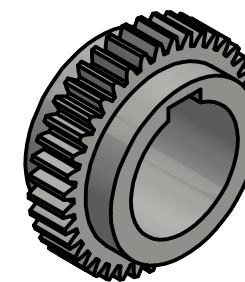
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC			Vela		
			34	Edição 01	Folha 19 / 41



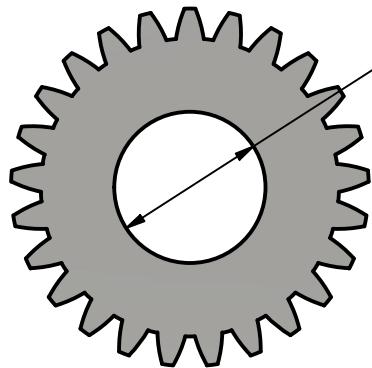
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 3:1	Data 27/07/2021
UFABC		Anel de Vela			
33		Edição 01		Folha 20 / 41	



Número de Dentes = 39



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 27/07/2021
UFABC		Engrenagem Central			
36		Edição 01		Folha 21 / 41	

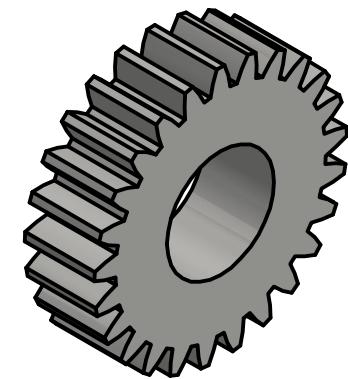


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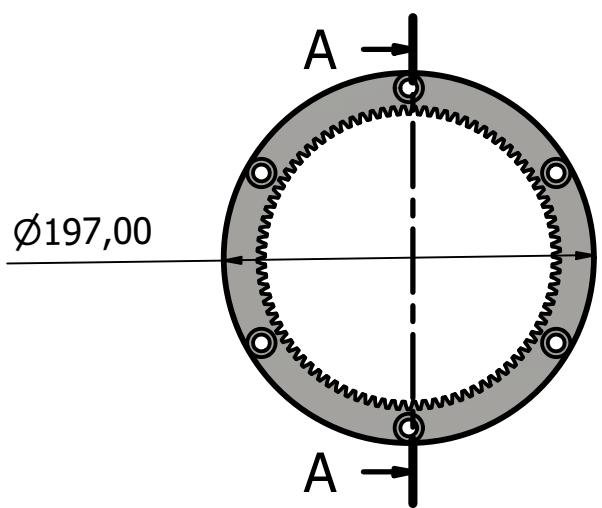
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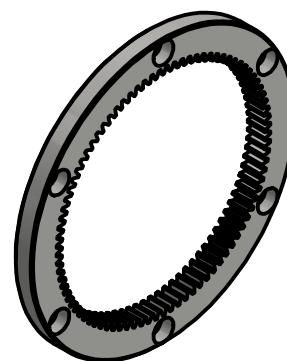
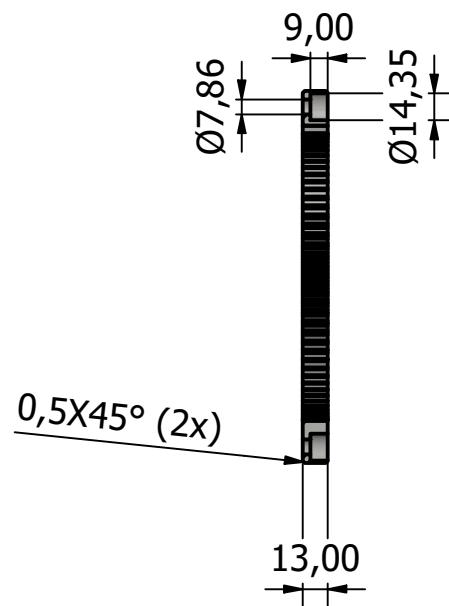
13,00



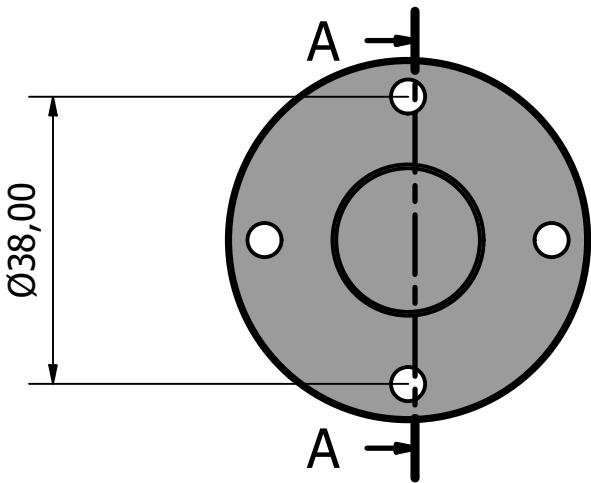
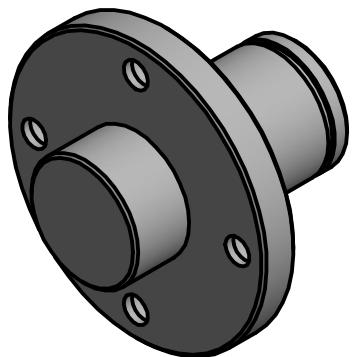
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC		Engrenagem Intermediária			
39		Edição 01		Folha 22 / 41	



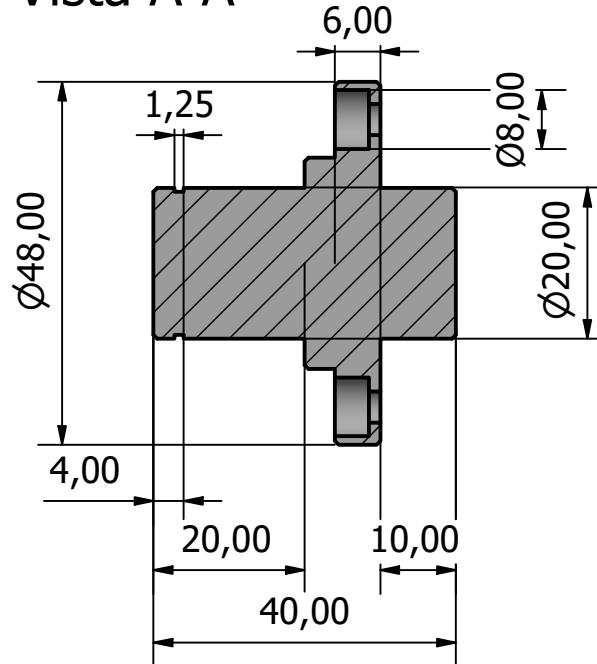
Vista A-A



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:4	Data 27/07/2021
UFABC		Engrenagem Interna			
40		Edição 01		Folha 23 / 41	

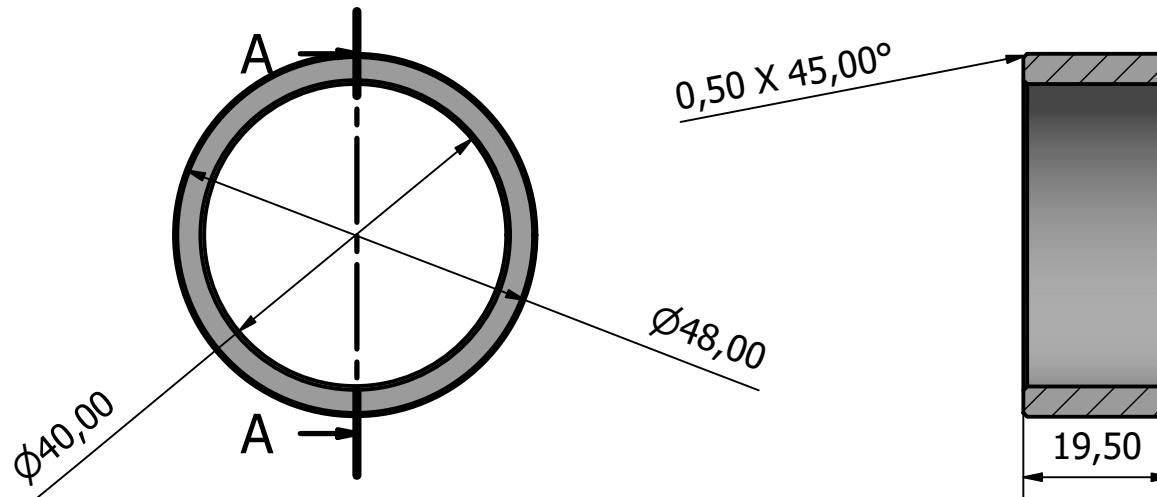


Vista A-A

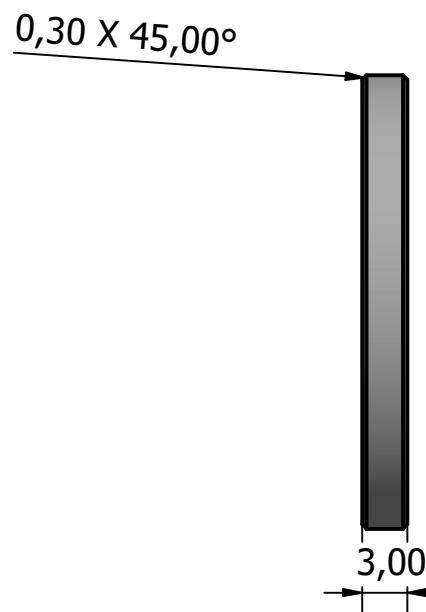
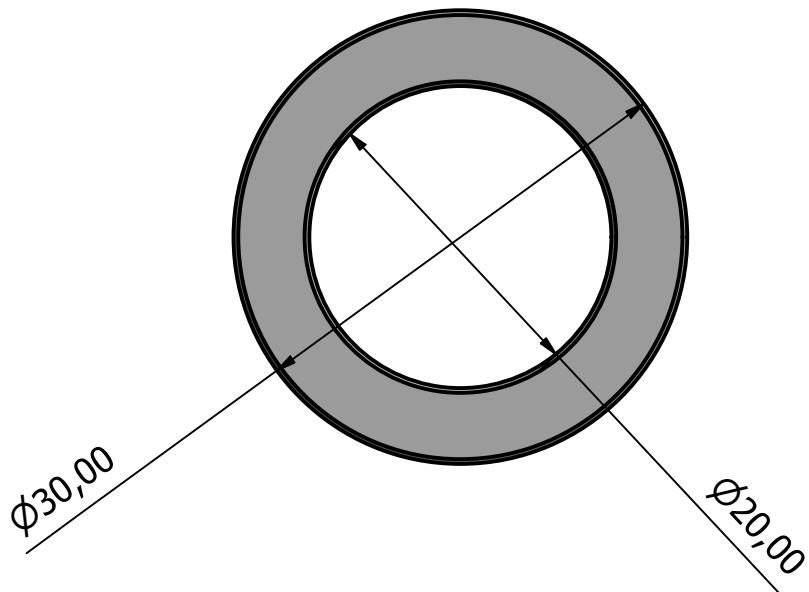
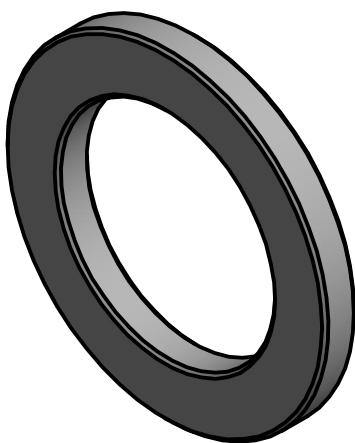


Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC		Eixo de Engrenagem			
38		Edição 01		Folha 24 / 41	

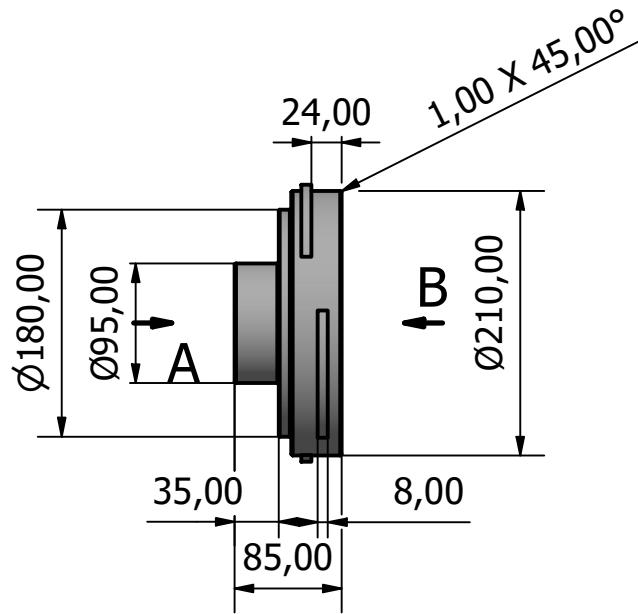
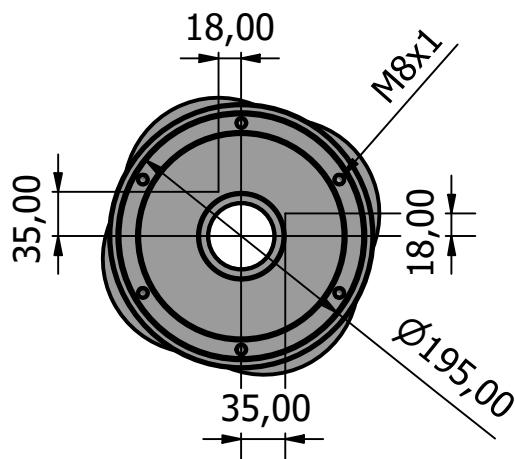
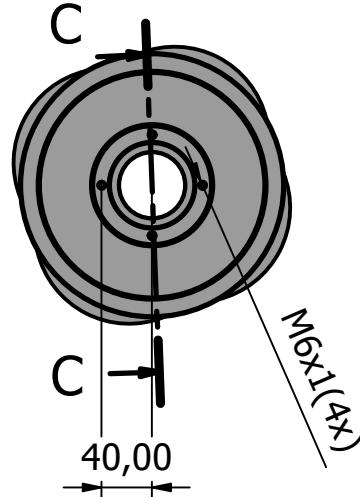
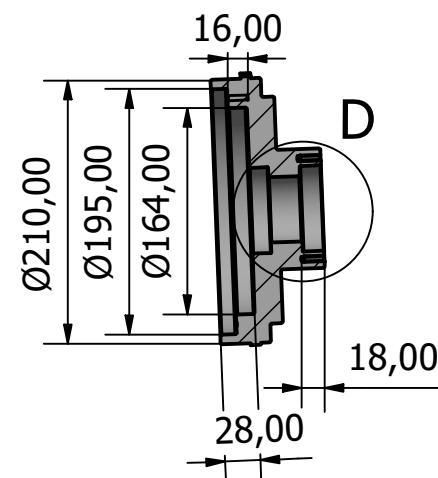
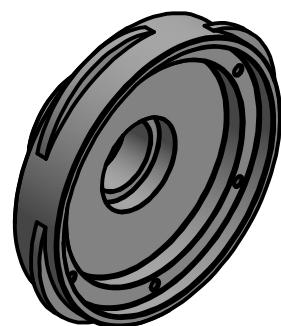
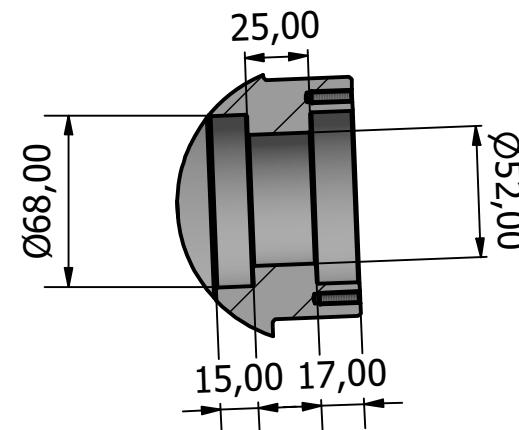
Vista A-A



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC		Bucha Espaçadora			
37		Edição 01		Folha 25 / 41	



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 2:1	Data 27/07/2021
UFABC		Arruela 20			
41		Edição 01		Folha 26 / 41	

Vista B**Vista A****Vista C-C****Vista D**

Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:6

Data
27/07/2021

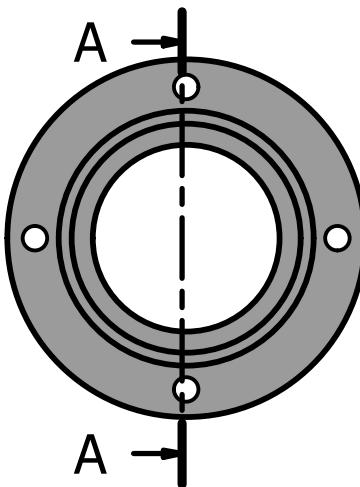
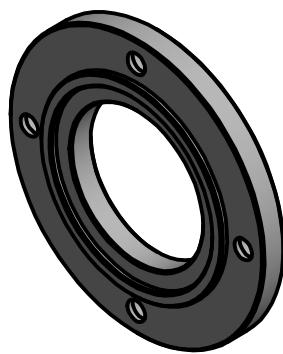
UFABC

Came com Excêntrico

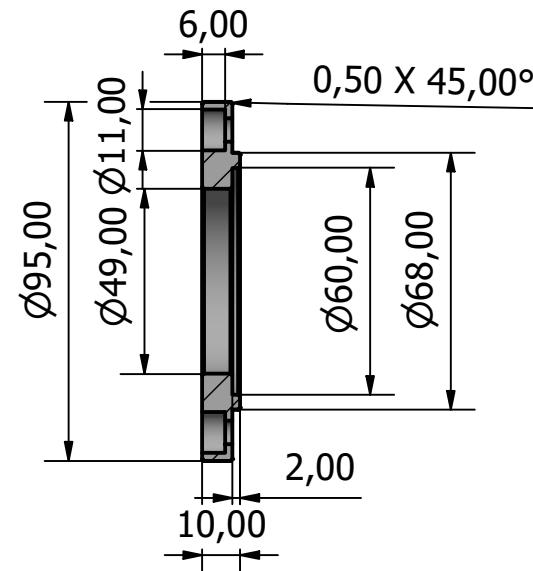
43

Edição
01

Folha
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Vista A-A



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
1:2

Data
27/07/2021

UFABC

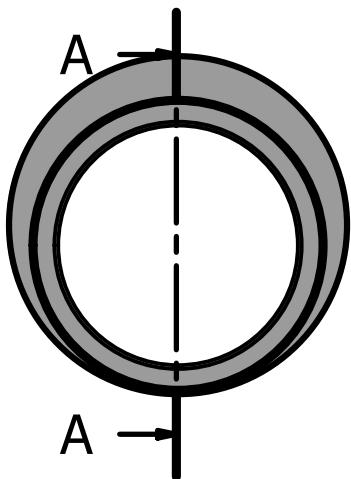
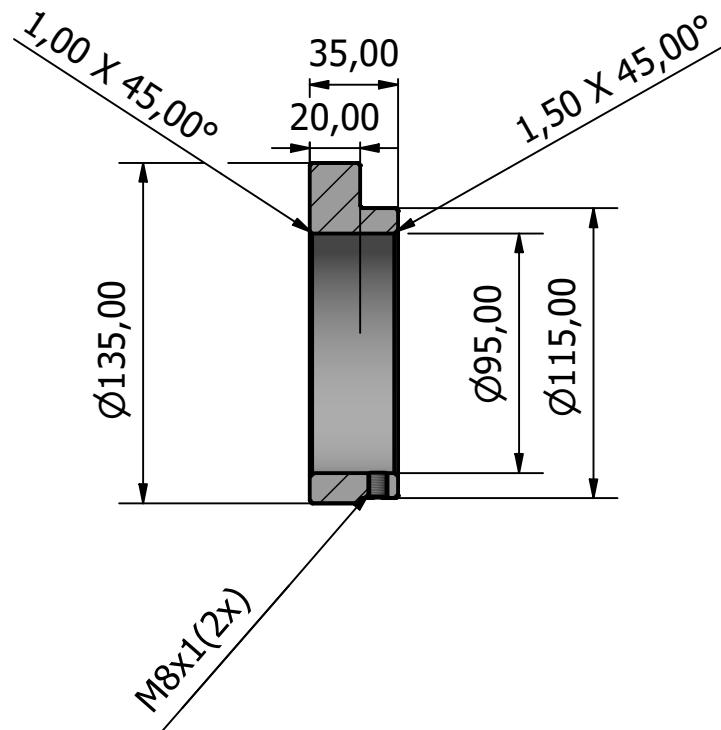
46

Tampa da Came

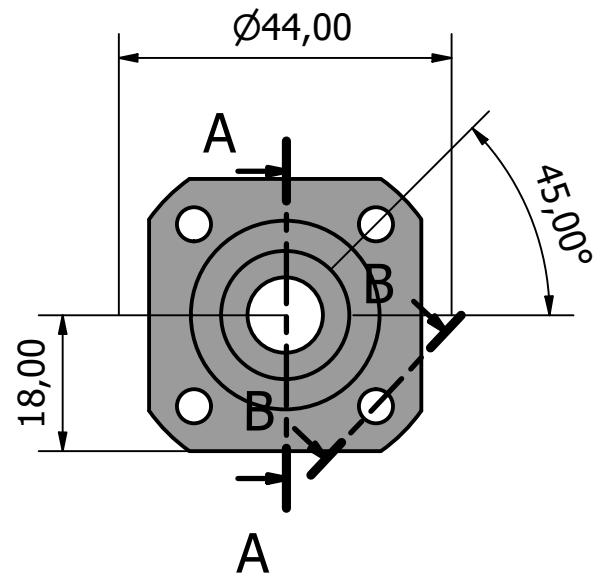
Edição
01

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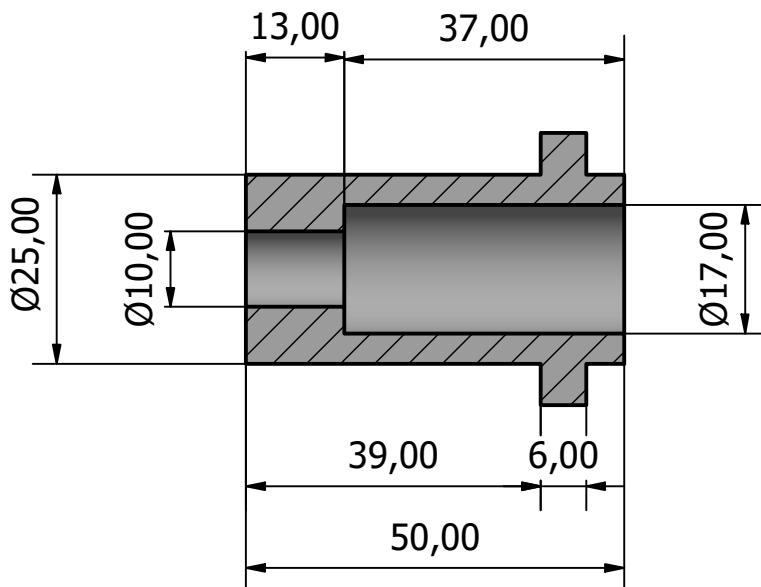
Vista A-A



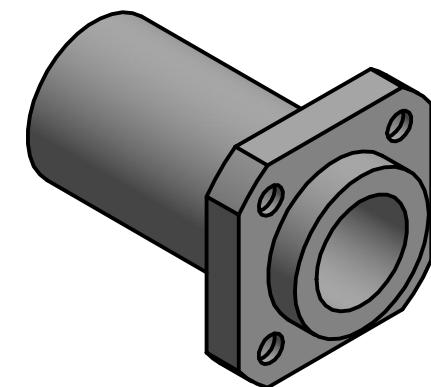
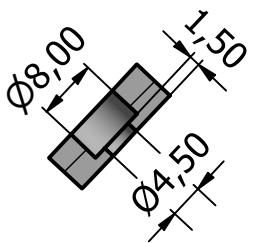
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:3	Data 27/07/2021
UFABC		Excêntrico do Came			
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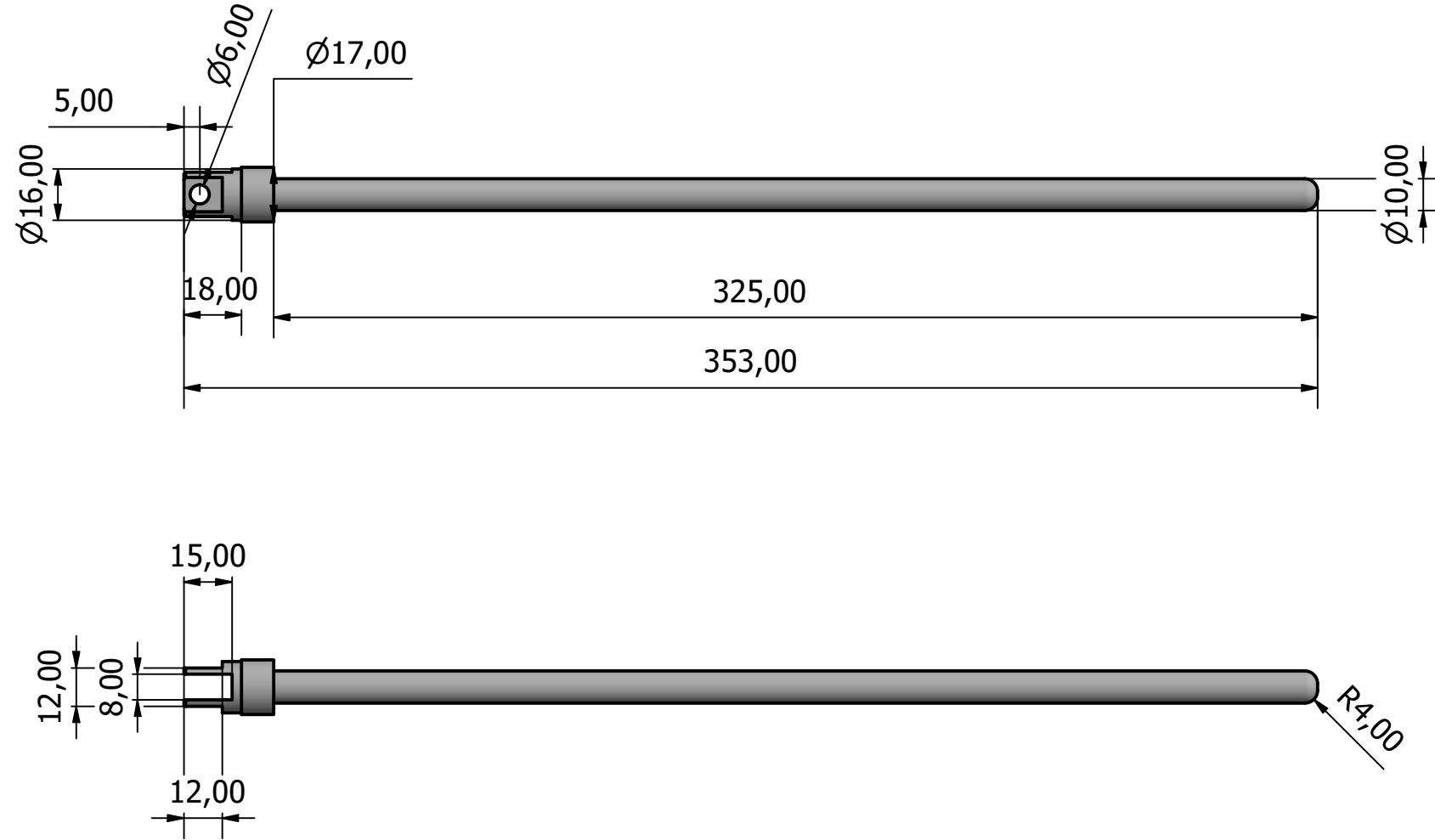
Vista A-A



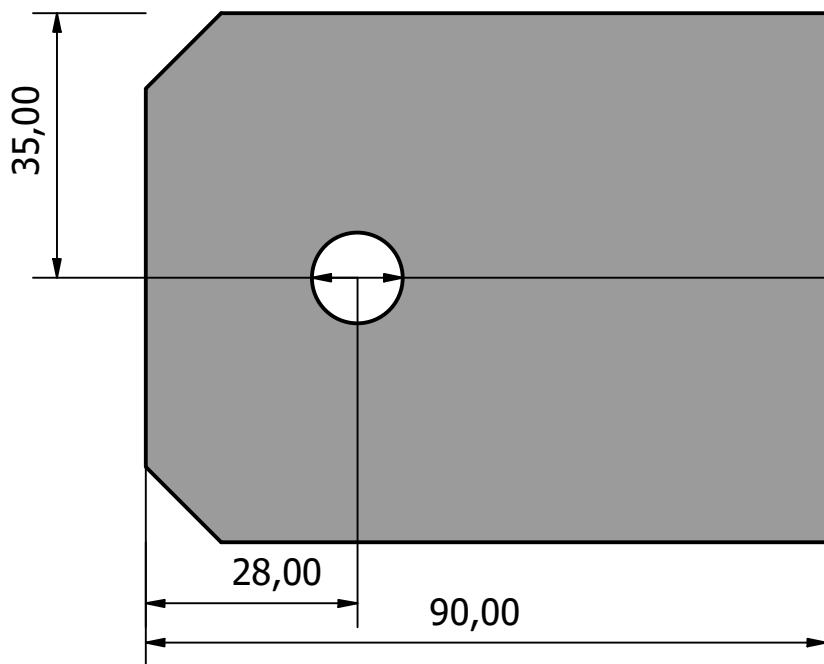
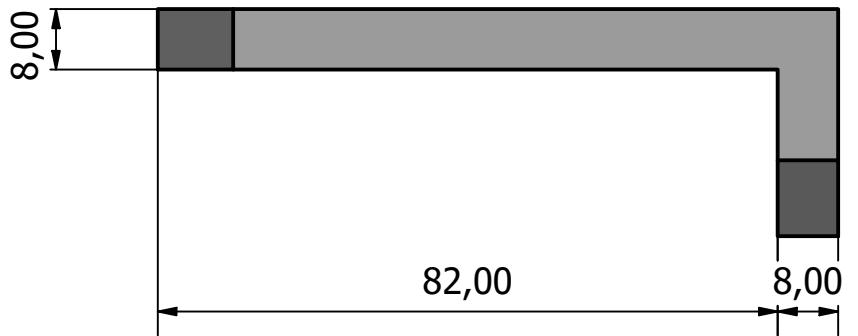
Vista B-B



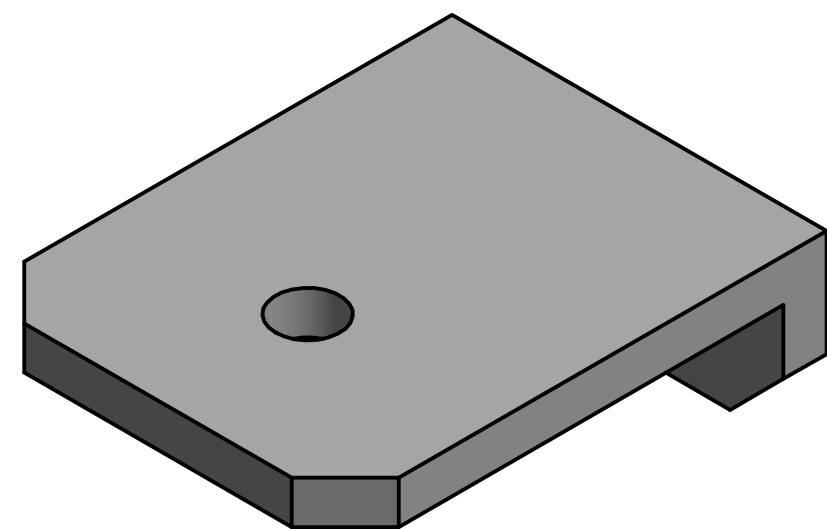
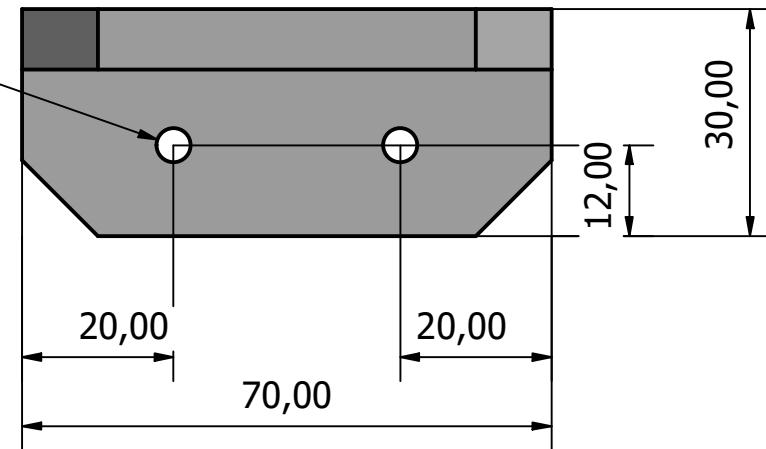
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC			Câmera de Suporte		
			50	Edição 01	Folha 30 / 41



Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 27/07/2021
Pino de Apoio		UFABC			
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$\varnothing 4,50(2x)$



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

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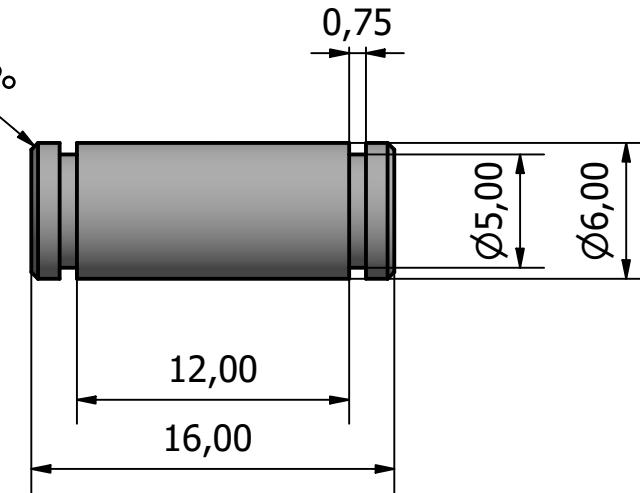
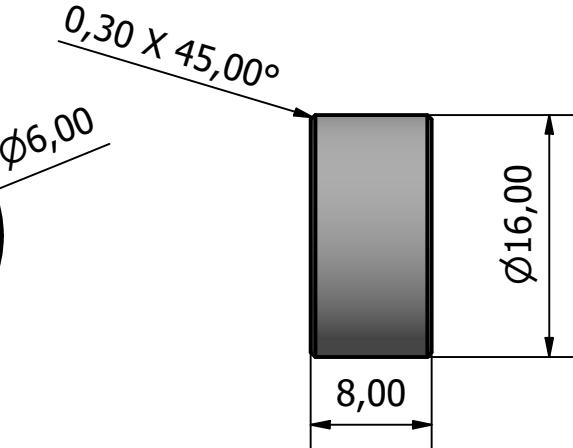
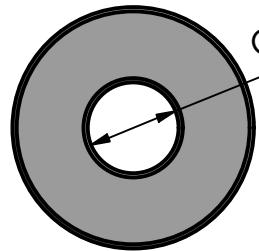
UFABC

Supporte do Pino de Apoio

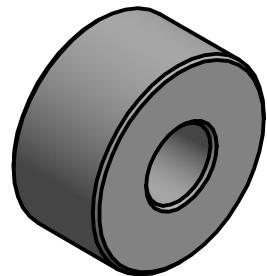
53

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01

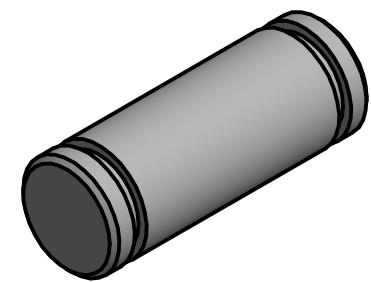
Folha
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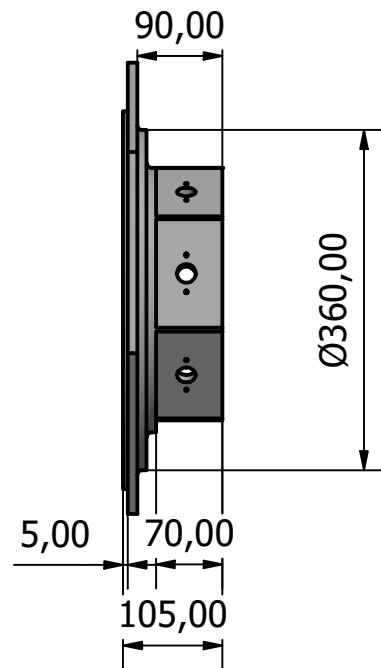
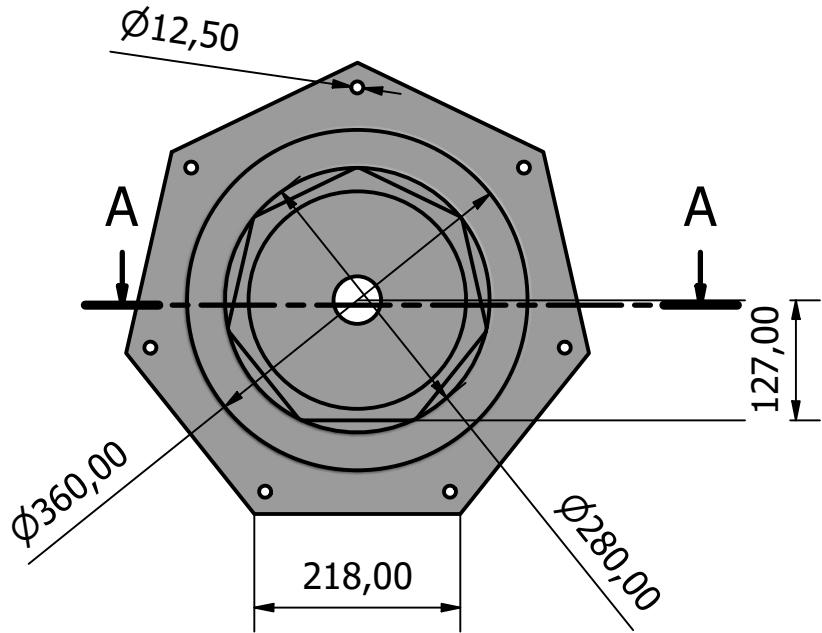
Peça 55 - Rolete



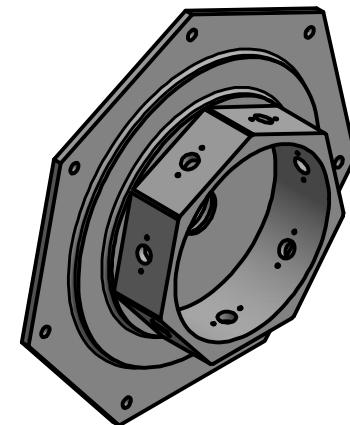
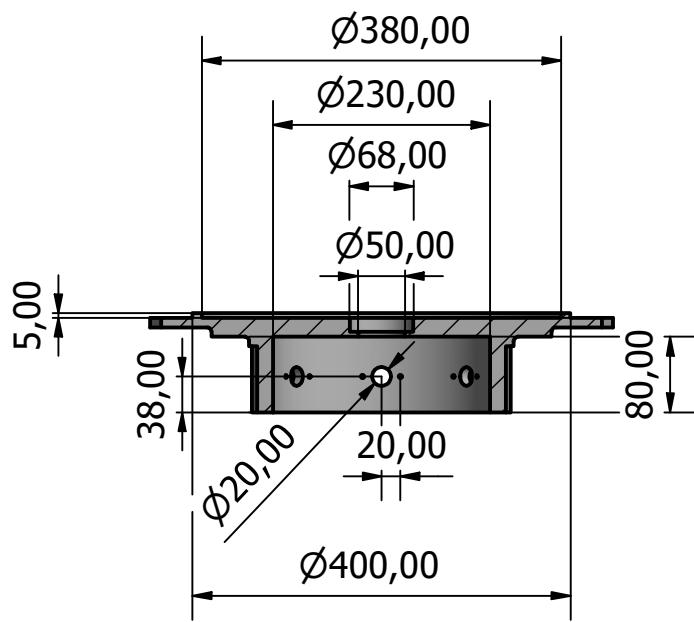
Peça 54 - Eixo Seguidor



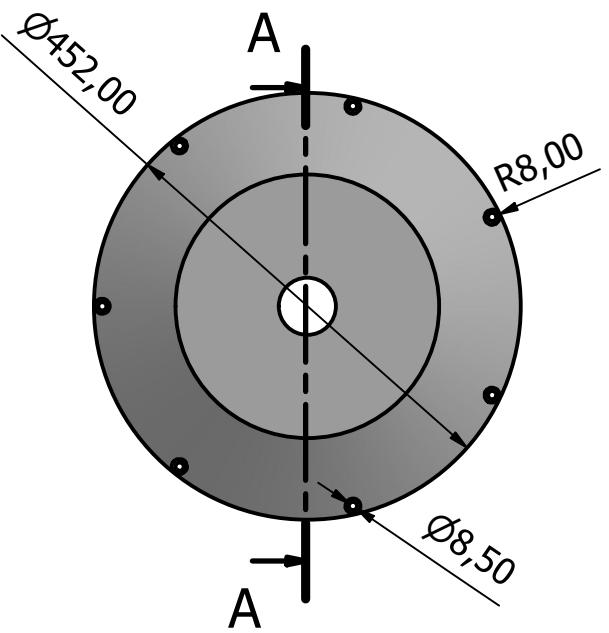
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 2:1	Data 27/07/2021
UFABC		Peças para o Rolete			
52 e 54		Edição 01		Folha 33 / 41	



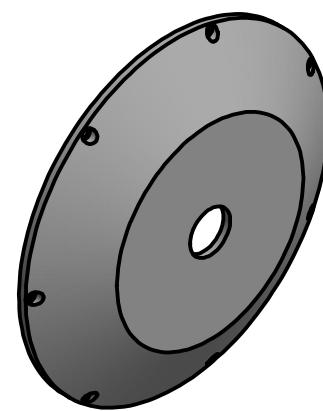
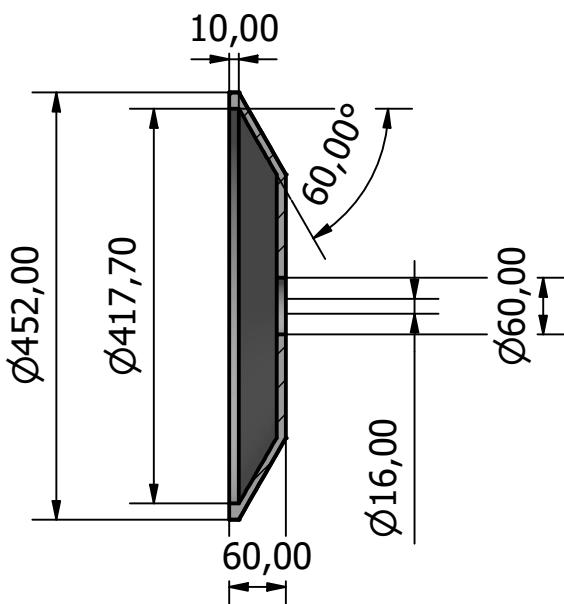
Vista A-A



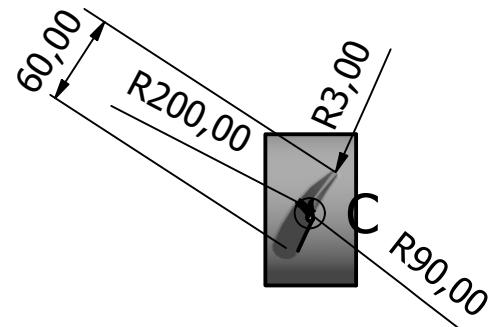
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:8	Data 27/07/2021
UFABC		Tampa de Carter Traseira			
		68		Edição 01	Folha 34 / 41



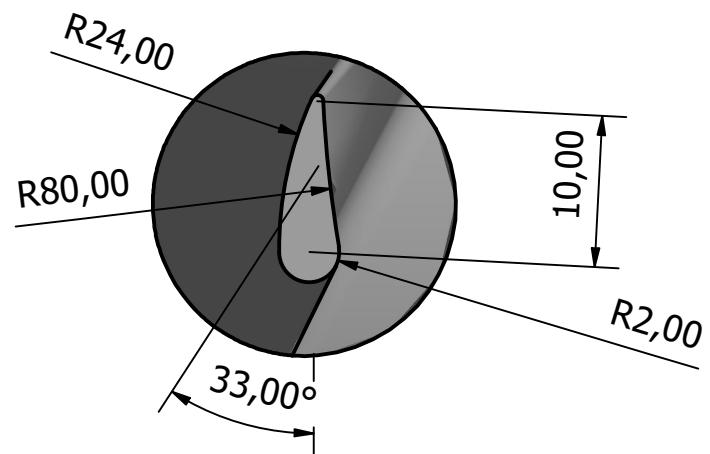
Vista A-A



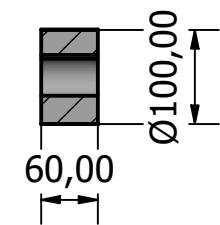
Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:8	Data 27/07/2021
UFABC			Tampa Frontal		
			64	Edição 01	Folha 35 / 41



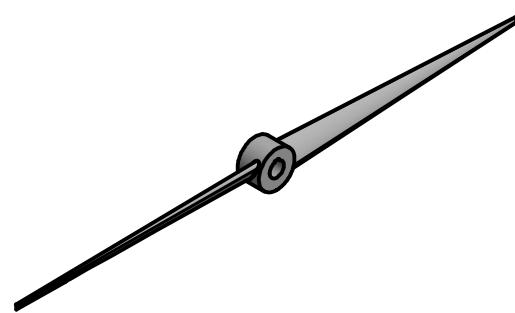
Vista C (2:1)



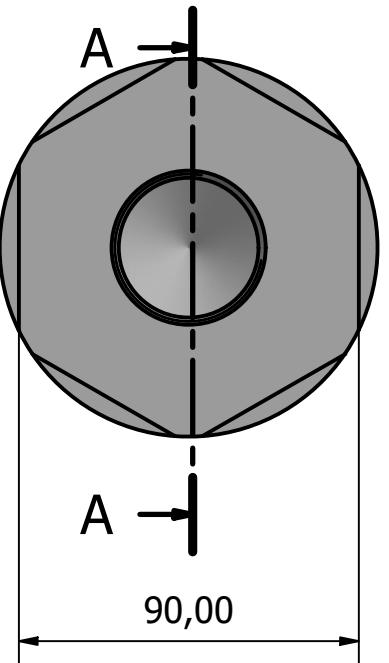
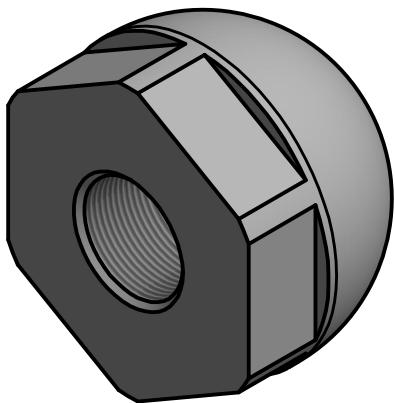
Vista A-A



Vista B

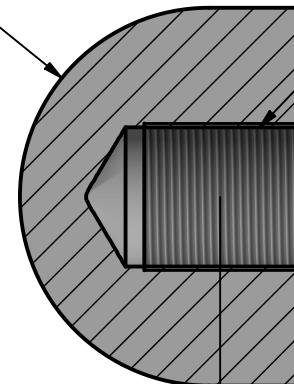


Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:8	Data 27/07/2021
UFABC		Hélice			
		66		Edição 01	Folha 36 / 41



R50,00

Vista A-A



M39x2LH

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Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

Data

Legenda
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Data
27/07/2021

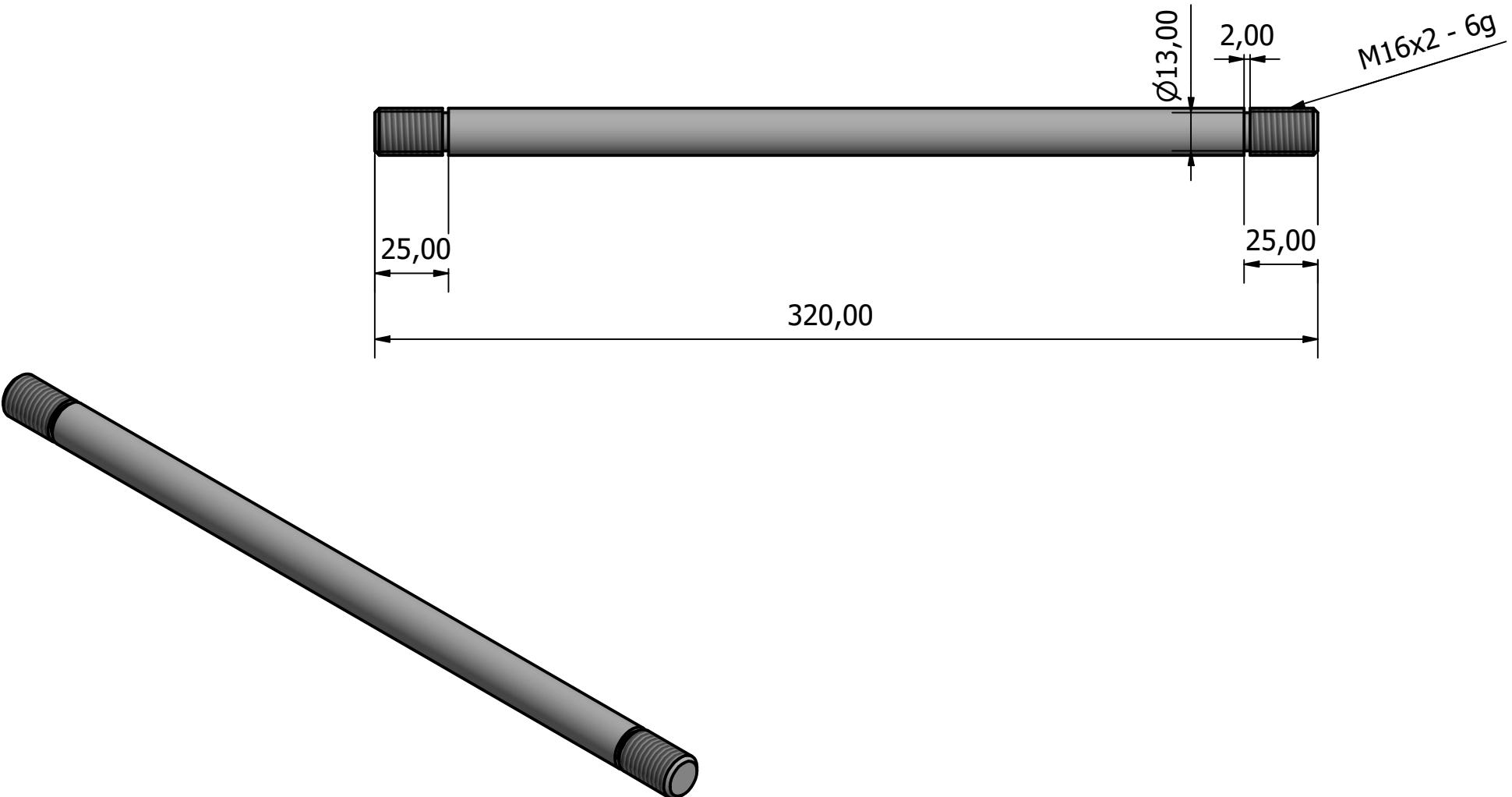
UFABC

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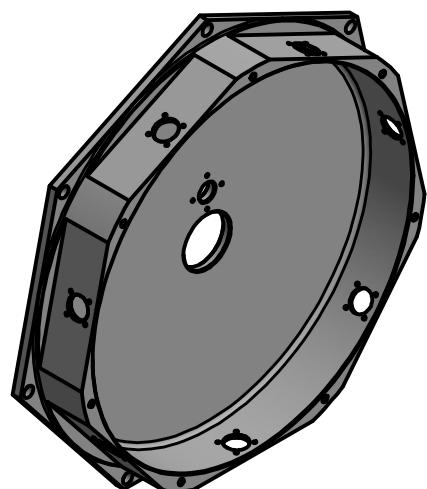
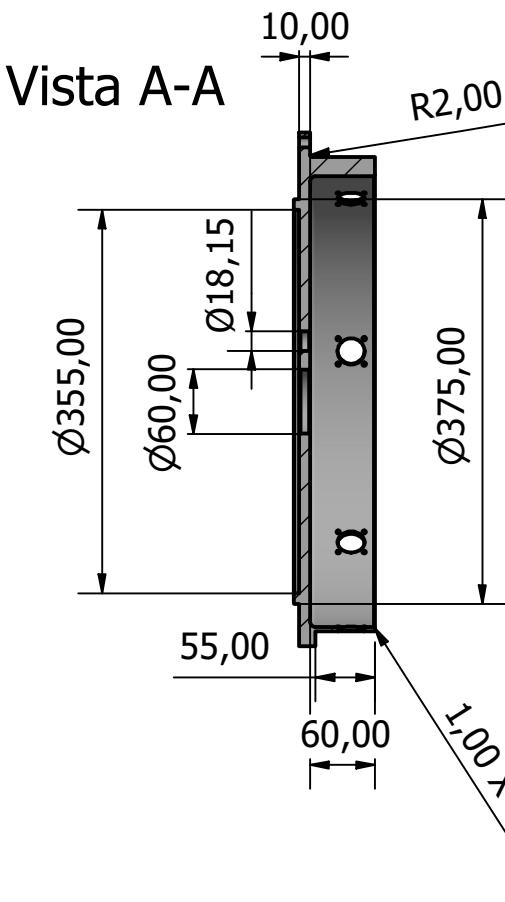
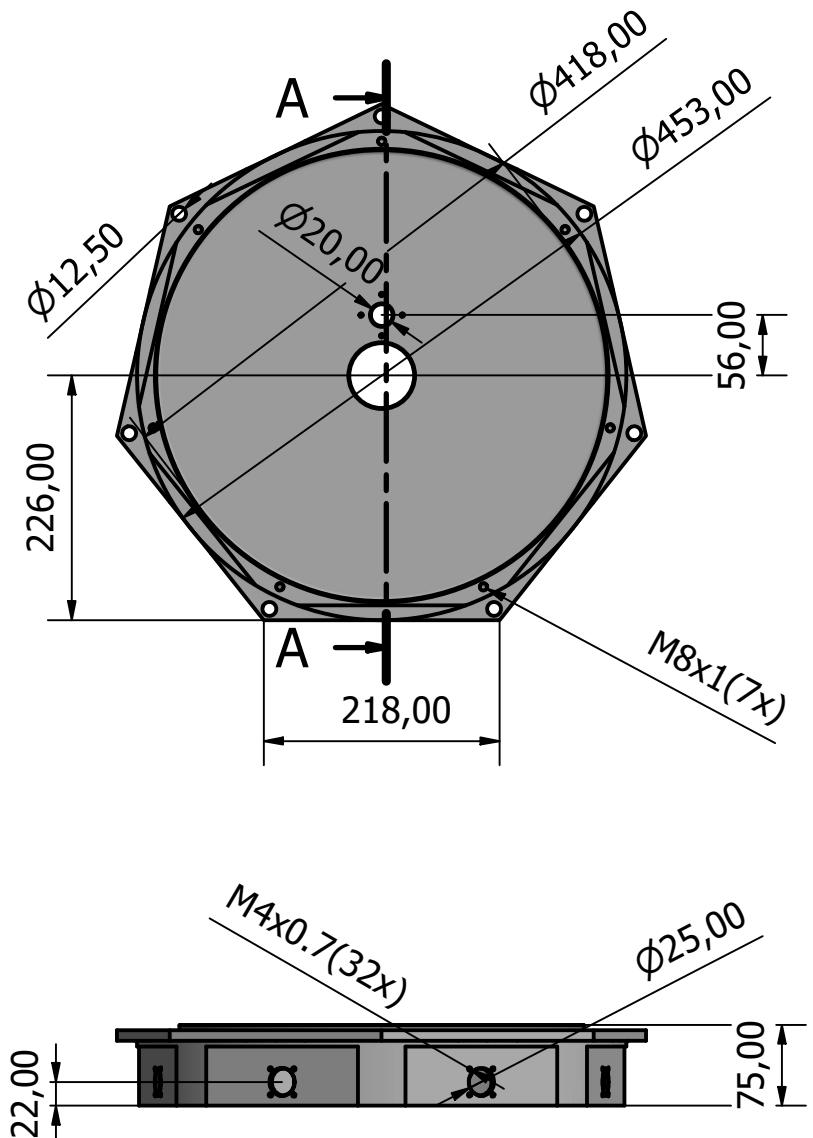
Porca Giratória

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Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:2	Data 27/07/2021
UFABC		Viga M16x320			
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Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

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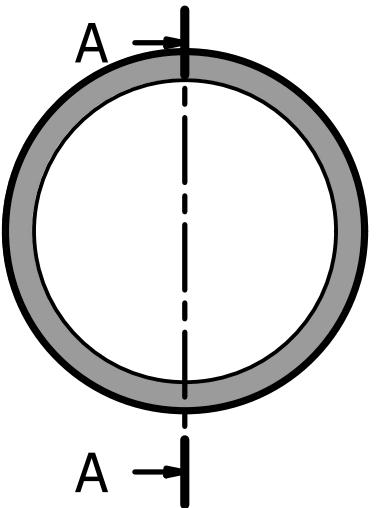
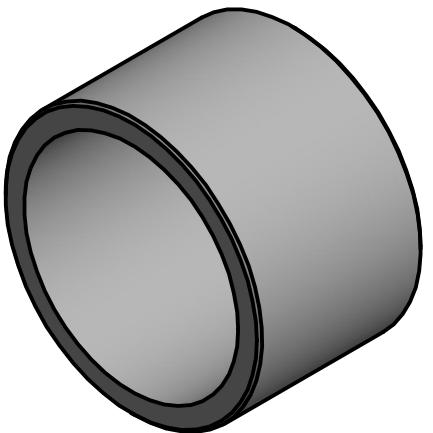
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Alojamento do Came

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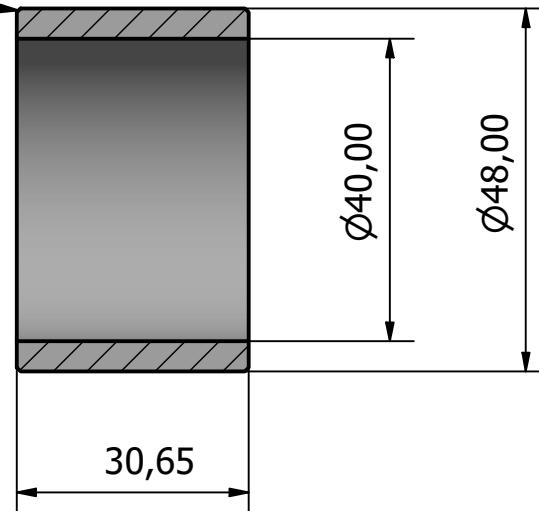
Edição
01

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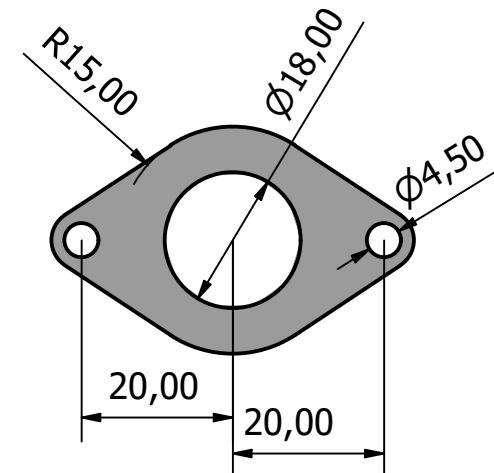
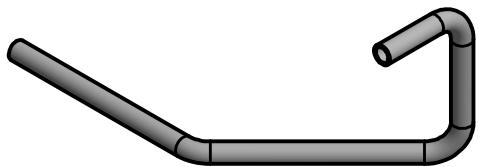
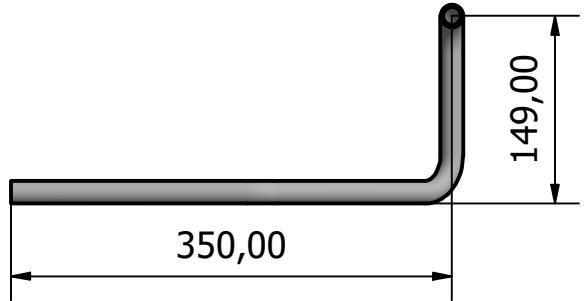
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Vista A-A

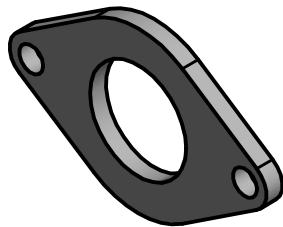


Projetado por Giovanni Rodrigues Dias	Verificado por Prof. Luis	Aprovado por	Data	Legenda 1:1	Data 27/07/2021
UFABC		Bucha Espaçadora 30,65			
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Peça 71 - Tubo



Peça 72 - Conector



Projetado por
Giovanni Rodrigues Dias

Verificado por
Prof. Luis

Aprovado por

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Data
27/07/2021

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Conjunto do Tubo de Admissão

71 e 72

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