

Dear John,

The last modification was made by 3D CAD so it is not possible to merge with the first version made by 2D CAD.

List of valid drawings:

MHI.000 General assembly without the last modifications (Periscope MHI.037, Terminal reflexion MHI.035).

MHI.001 Replaced with MHI.024

MHI.002 Valid for insertion system only.

MHI.003 Replaced with MHI.037.

MHI.004 Replaced with MHI.035

MHI.005 OK

MHI.006 Replaced with MHI.038 and MHI.039.

MHI.007 Replaced with MHI.038 and MHI.039.

MHI.008 Replaced with MHI.036.

MHI.009-010-011-012-013-014-015 OK

MHI.016 Must be modified

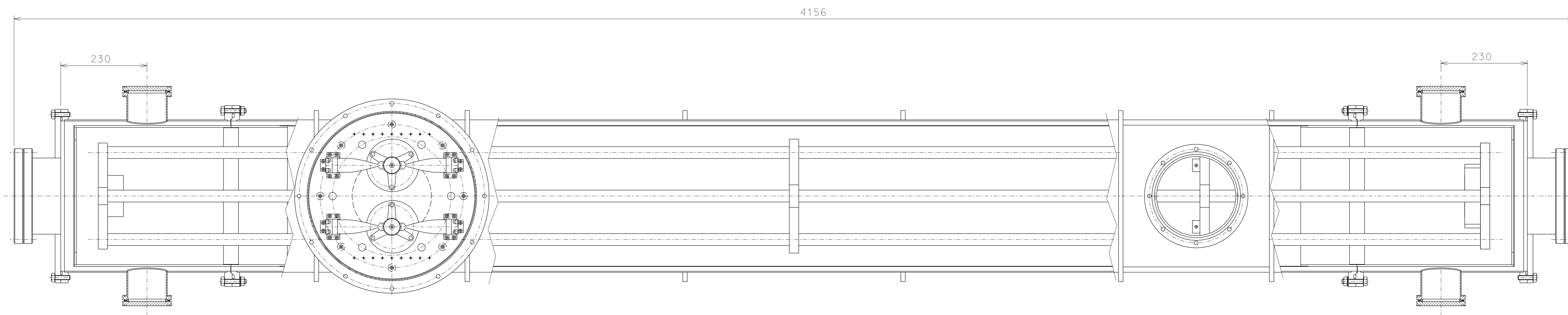
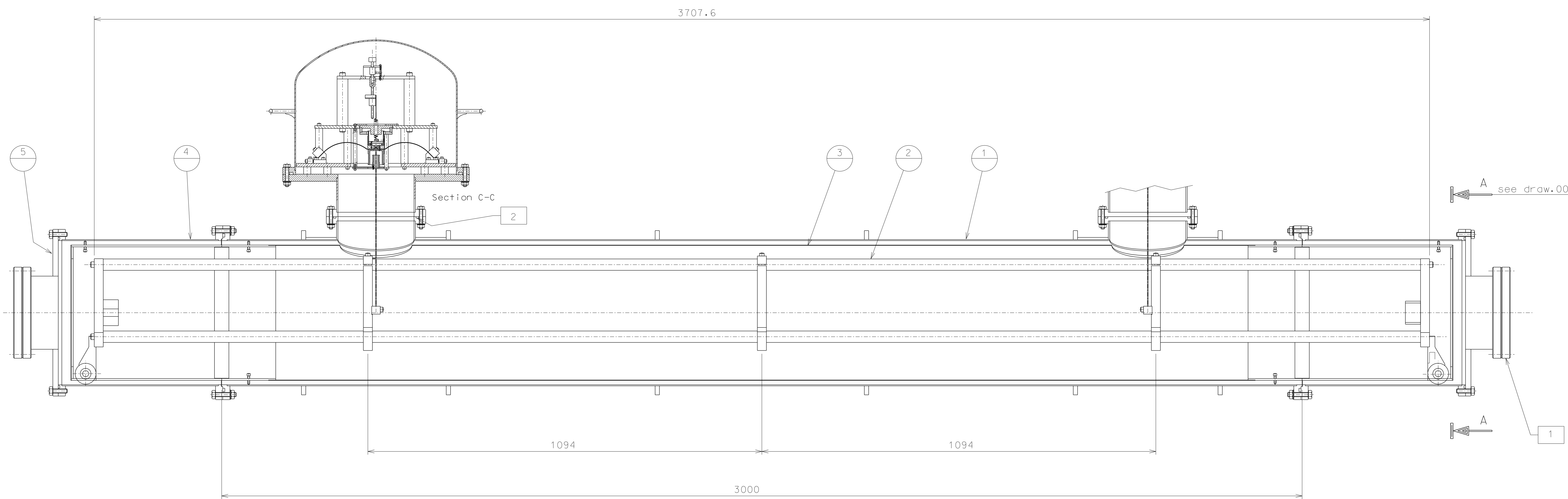
MHI.017 Replaced with MHI.027.

MHI.018-019-020-021-022-023-024 OK

MHI.025 Eliminated.

MHI.026-027-028-029-030-031-032-033-034 OK

Gianni



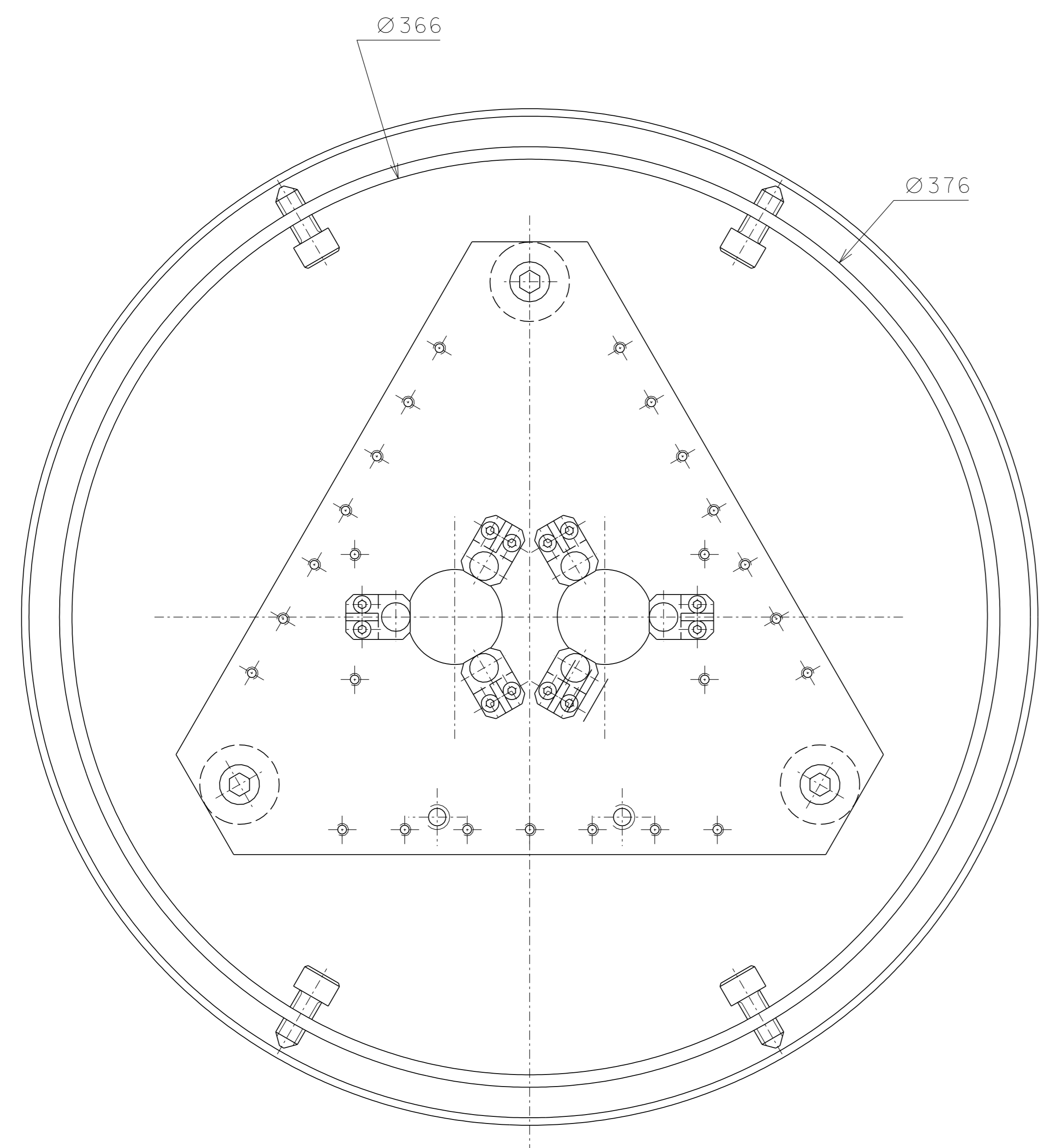
By market

- 1 Flange DN 200 n°2 pc
- 2 OR 6870 n°2

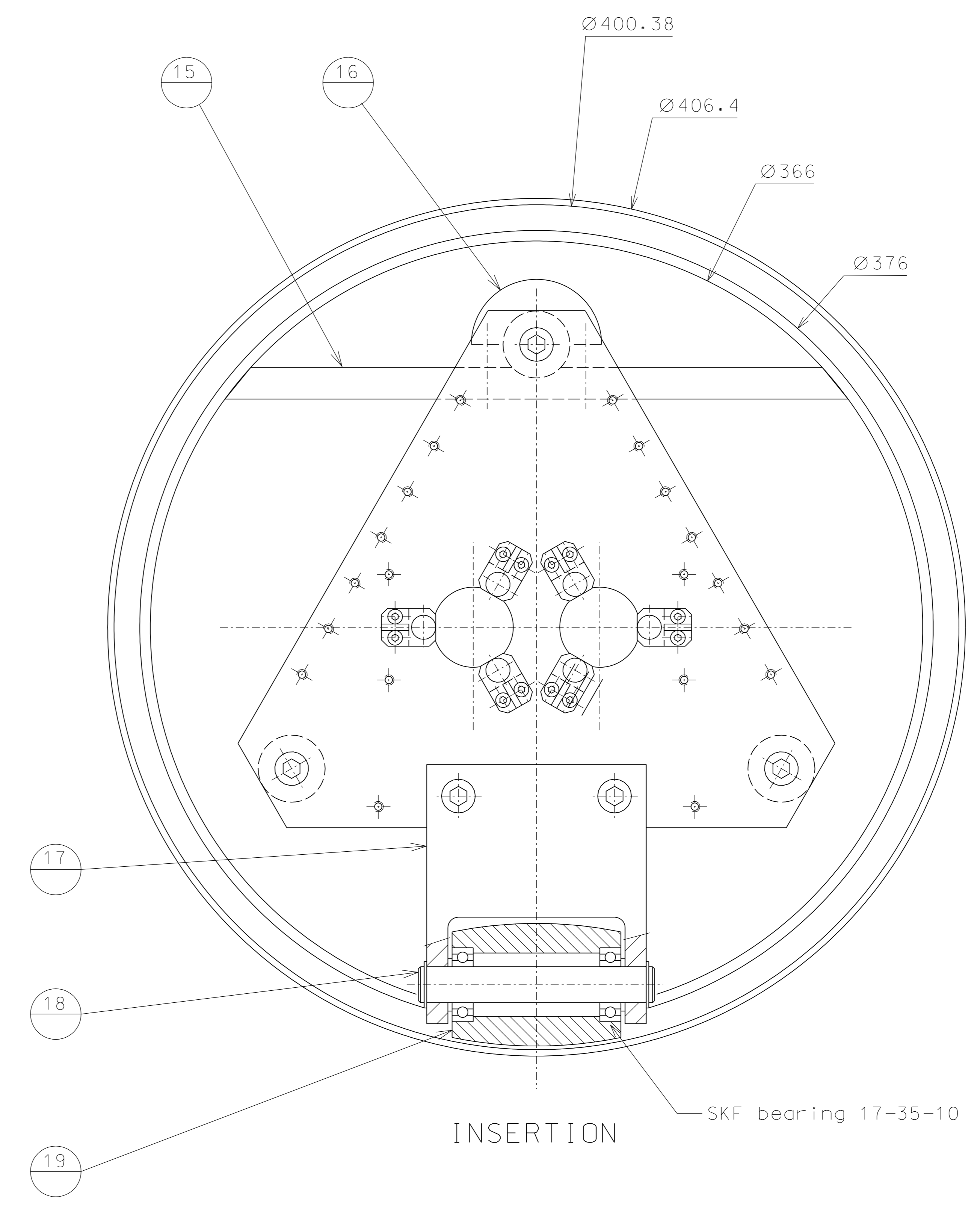
5	013	Vacuum end flange		
4	012	Vacuum spool		
3	012	Main heath shield		
2	012	Invar rod		
1	011	Main vacuum pipe		
ref.	draw.	added legend	ref.	draw.

ref.	note	date	signature
	modifications		

	LIGO PROJECT	designed for R. De Salvo
	MH INTERFEROMETER	draw. by PROMEC
GENERAL ASSEMBLY		ass. numb. MH1.000
		date 12-02-04
		scale 1:6
		issue A
		replaces
		draw. n°
		A 1



FIXING



INSERTION

SKF bearing 17-35-10

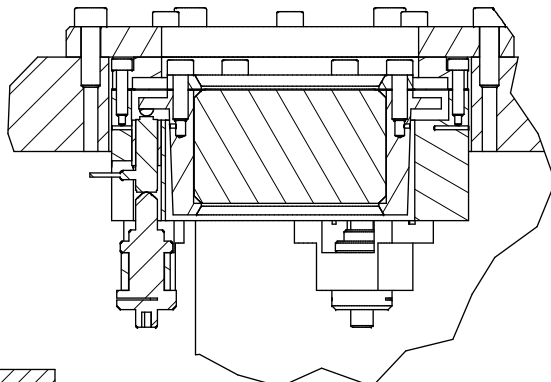
ref.	note	date	signature
modifications			

19	019	Wheel			
18	019	Wheel shaft			
17	019	Wheel structure			
16	019	Clamp			
15	019	Mounting bracket			
ref.	draw.	added legend	ref.	draw.	added legend

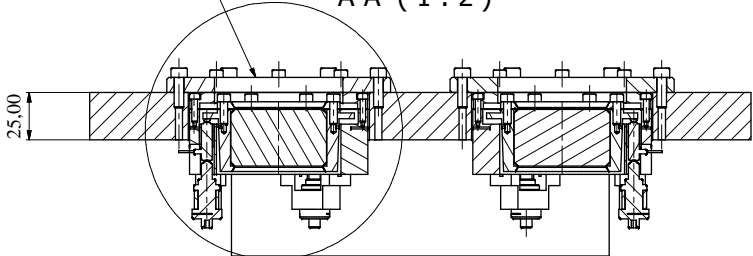
	LIGO PROJECT		designed for R. De Salvo
			draw. by PROMEC
		ass. numb. Laser.002	
		date 1-02-04	
LASER SECTION A-A		scale 1:2	issue A
		replaces	
		draw. n°	A 1

81	socket head M8x40	4
79	socket head M5x16	12
detail	type	n° pieces

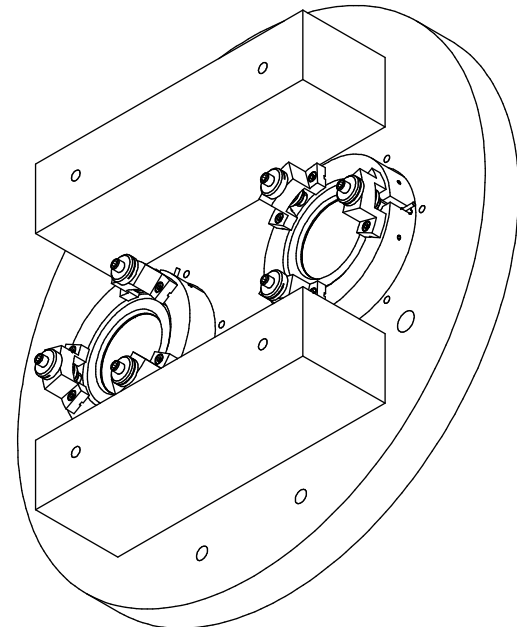
D (1:1)



A-A (1:2)

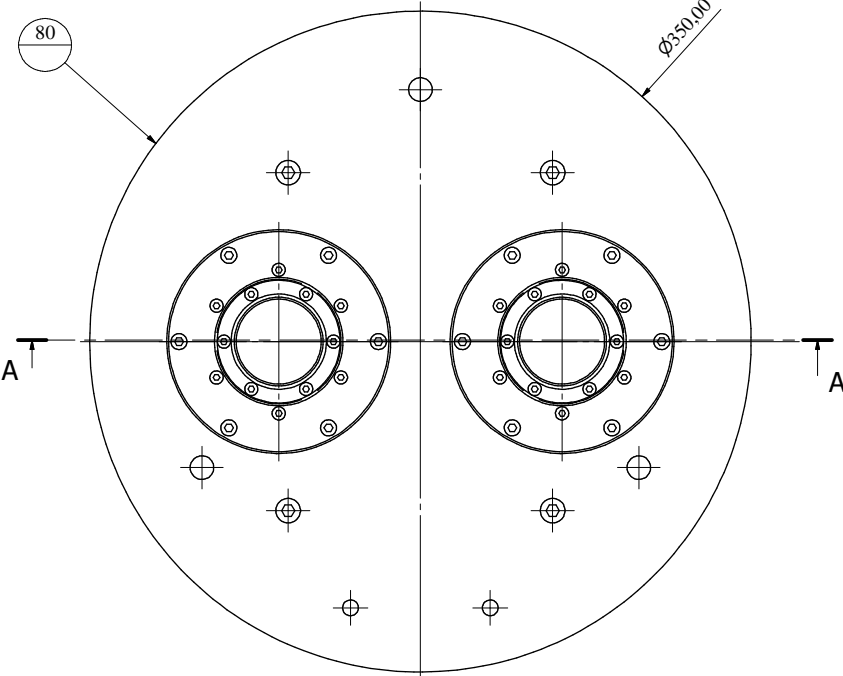


Mirror assembly see draw. MHI 030



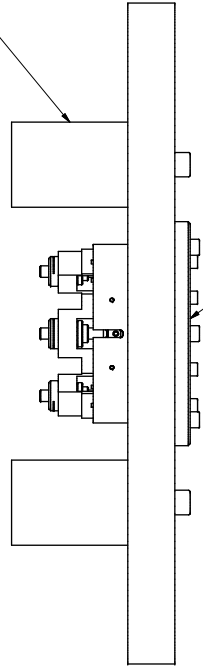
80

Ø350.00



81

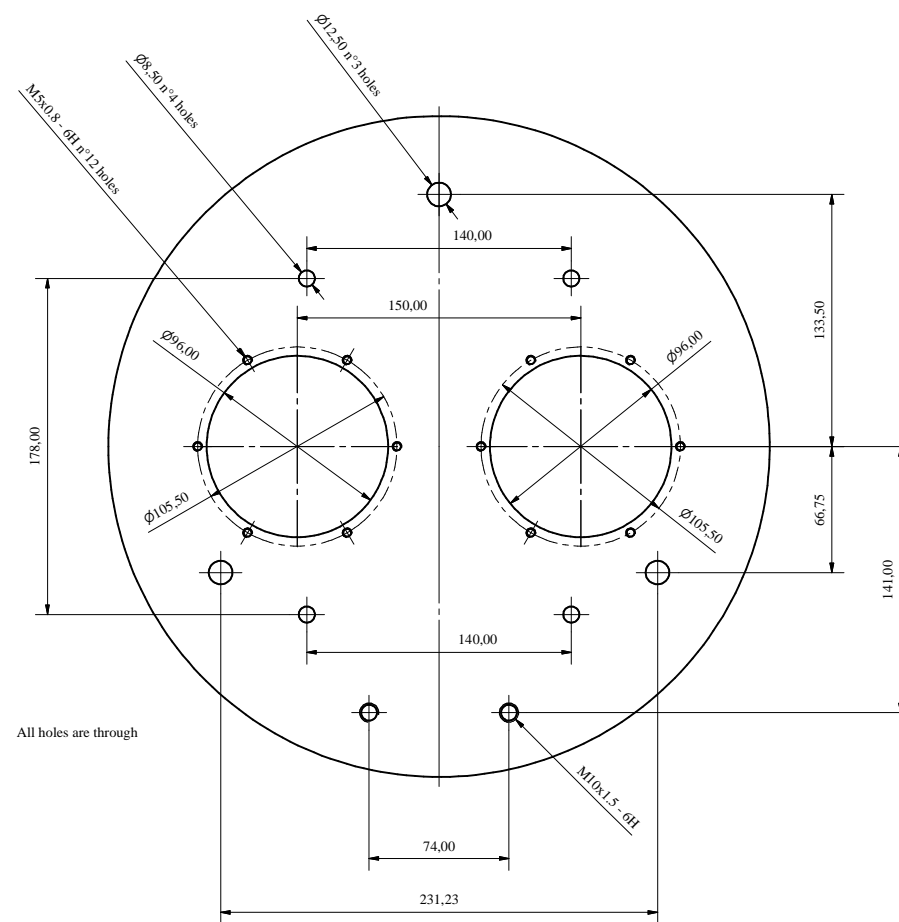
79



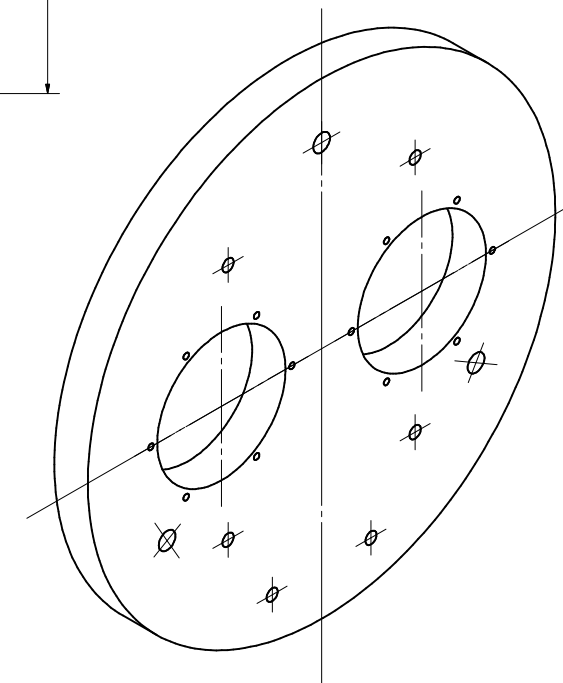
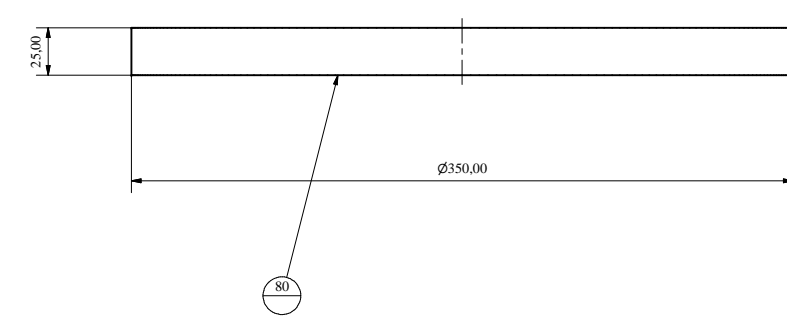
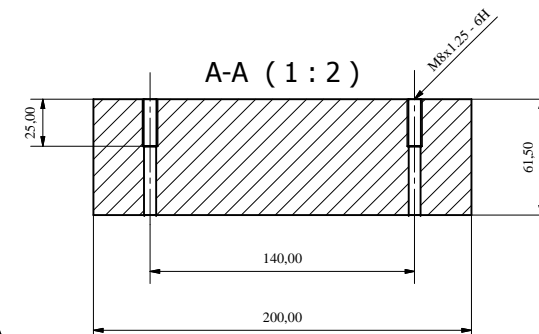
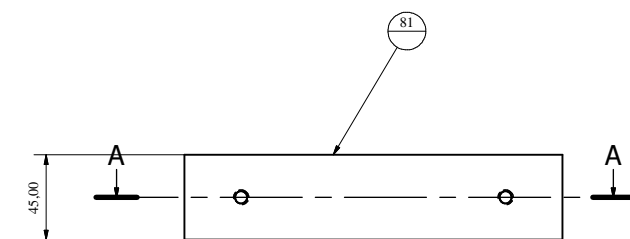
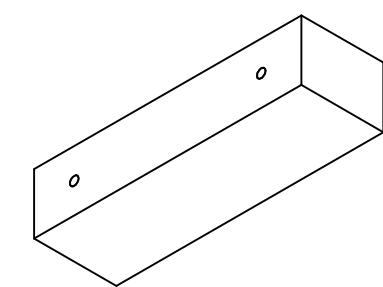
ref.	note	date	signature
	modifications		

81	036	Counterweight
80	036	Plate 2 mirrors
79	039	Fixing support mirror
ref.	Draw.	Added legend

	LIGO PROJECT DRAW. BY R. De Salvo Gennaro-PROMEC	
	DATE 21-05-07 TITLE MH INTERFEROMETER ASSEMBLY TERMINAL REFLEXION	SCALE 1/2 ASS. N°PIB. MHI.035-00 REPLACE DRAW. N°
		A2



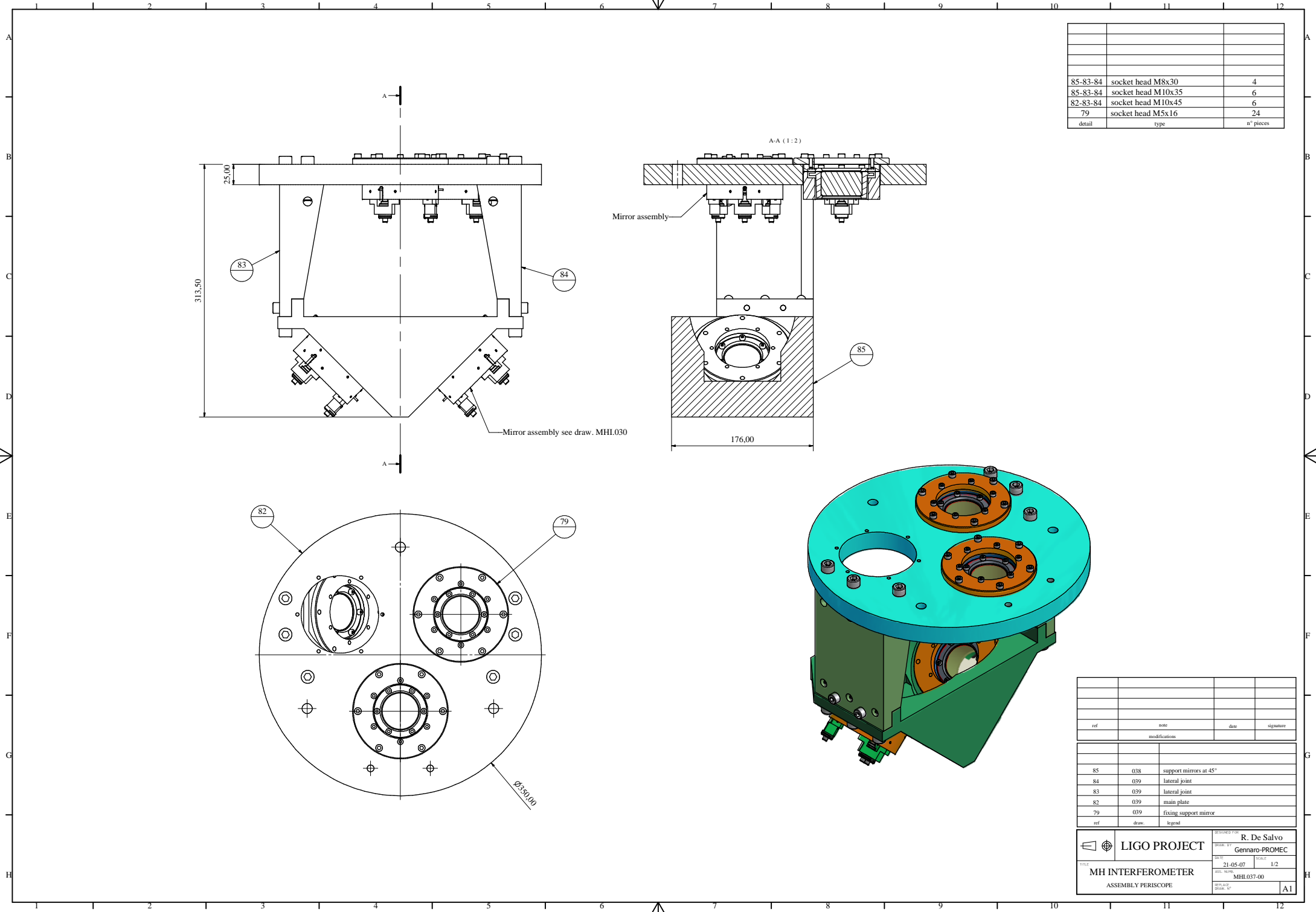
All holes are through



81	2	AISI 304		1/2
80	1	EN 6082		1/2
ref.	pieces	mat. and treatments		scale

GENERAL MACHINING TOLERANCES UNI 5307-02								
DIMENSIONS	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
LINEAR TOL.	+ 0.1	+ 0.2	+ 0.3	+ 0.5	+ 0.8	+ 1.2	+ 2	+ 3
ANGULAR TOL.	+ 1'	+ 30'	+ 20'	+ 10' REFERED TO THE SHORTEST SIDE				

DESIGNED FOR		R. De Salvo	
DRAWN BY		Gennaro-PROMECC	
DATE	21-05-07	SCALE	1/2
TITLE	MH INTERFEROMETER		N° DRAW.
DETAILS		MHL036-00	
DETAIL FROM		A2	

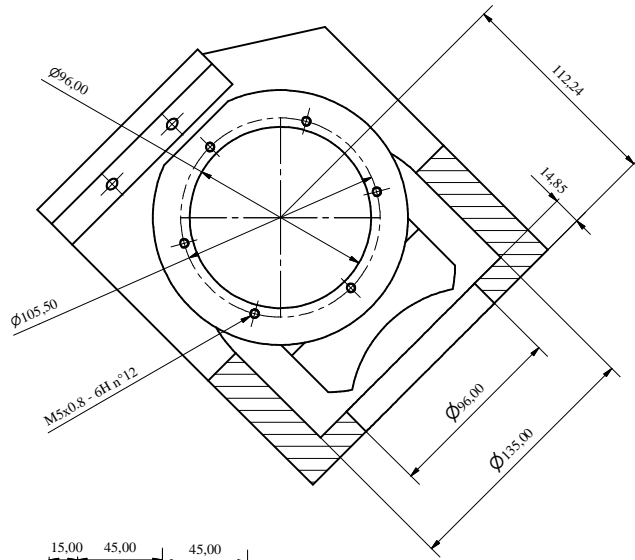


detail	type	n° pieces
85-83-84	socket head M8x30	4
85-83-84	socket head M10x35	6
82-83-84	socket head M10x45	6
79	socket head M5x16	24

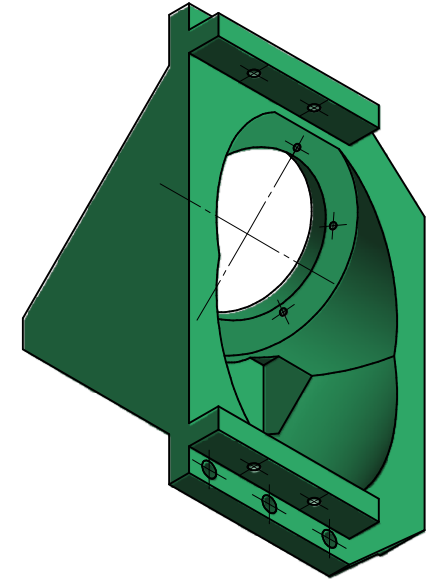
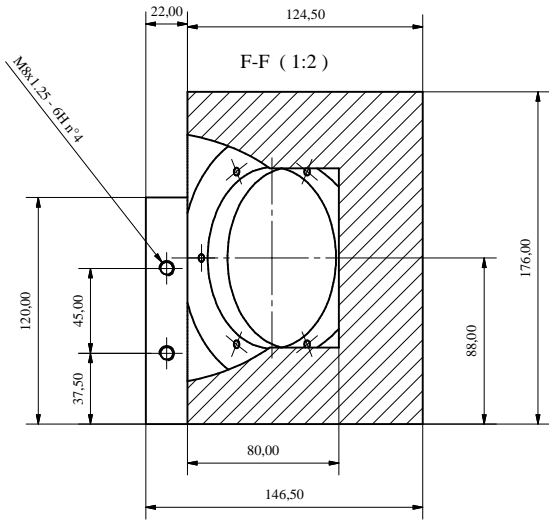
ref	note	date	signature
modifications			
85	038		support mirrors at 45°
84	039		lateral joint
83	039		lateral joint
82	039		main plate
79	039		fixing support mirror
ref	draw.	legend	

	LIGO PROJECT		DESIGNED BY: R. De Salvo DRAWN BY: Gennaro-PROMECC
	DATE: 21-05-07	SCALE: 1/2	TITLE: MH INTERFEROMETER ASSEMBLY PERISCOPE
LOCAL NUMBER: MHI.037-00		REPLACED BY:	DRAWN BY:
			A1

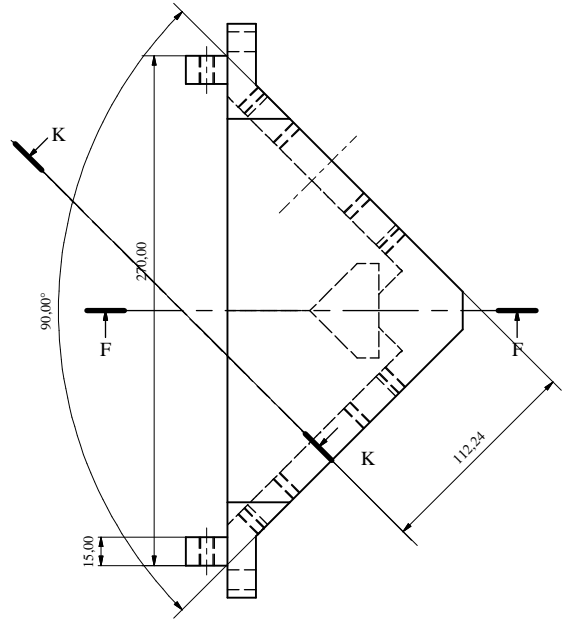
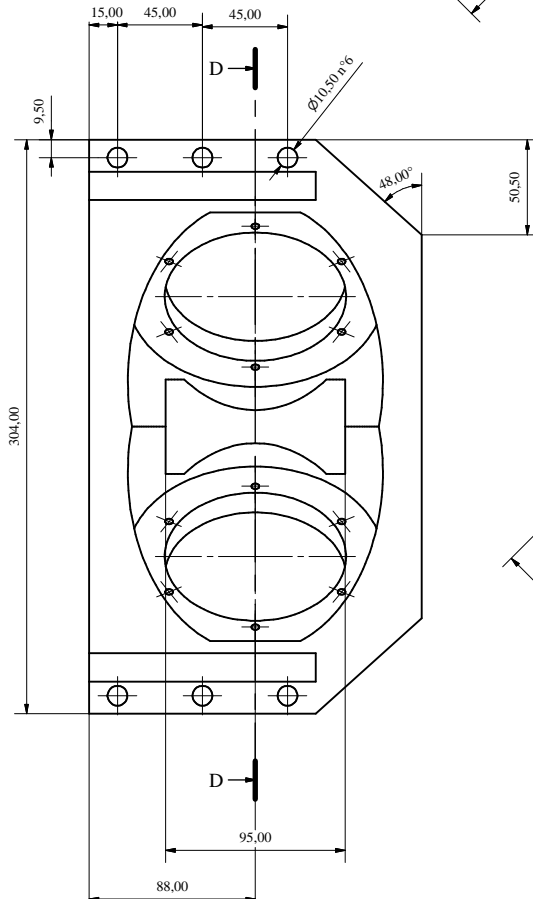
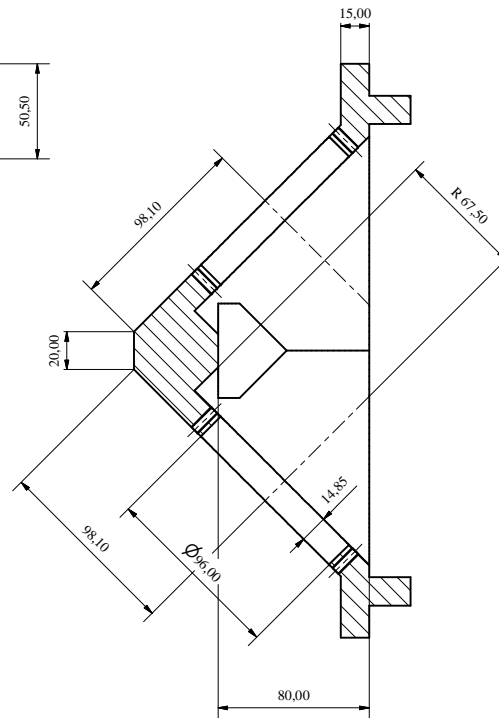
K-K (1:2)



F-F (1:2)



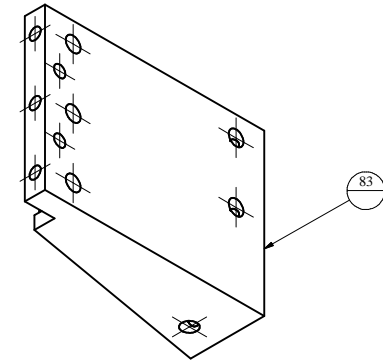
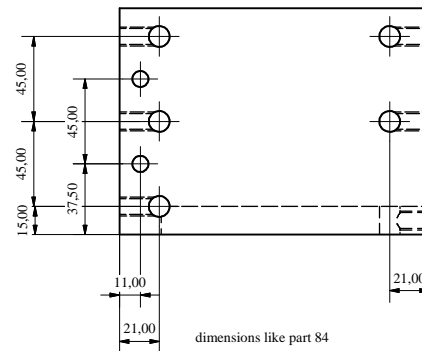
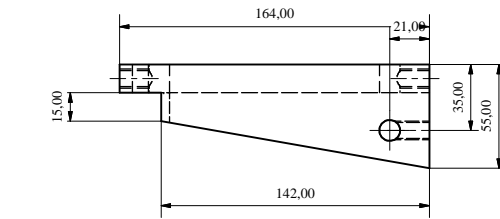
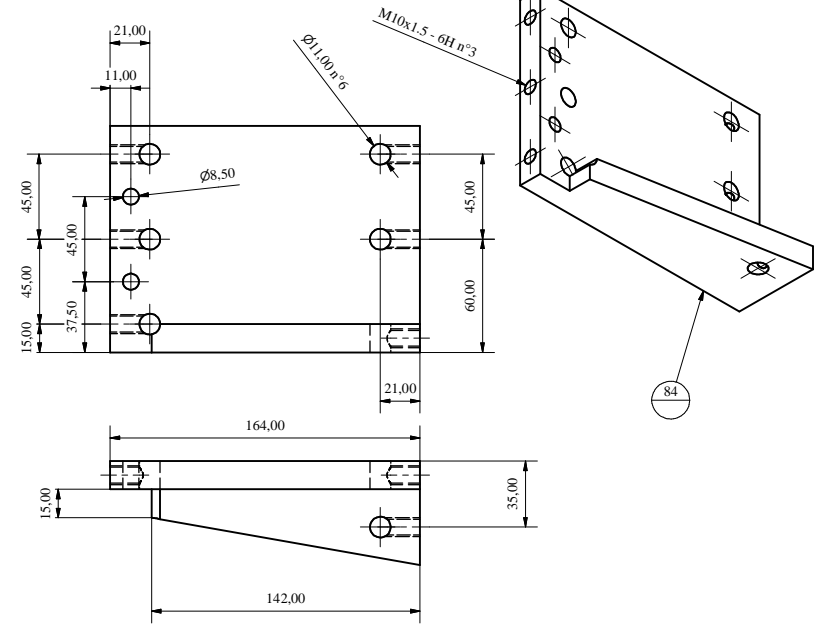
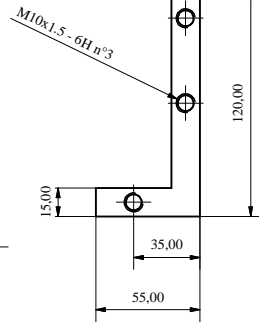
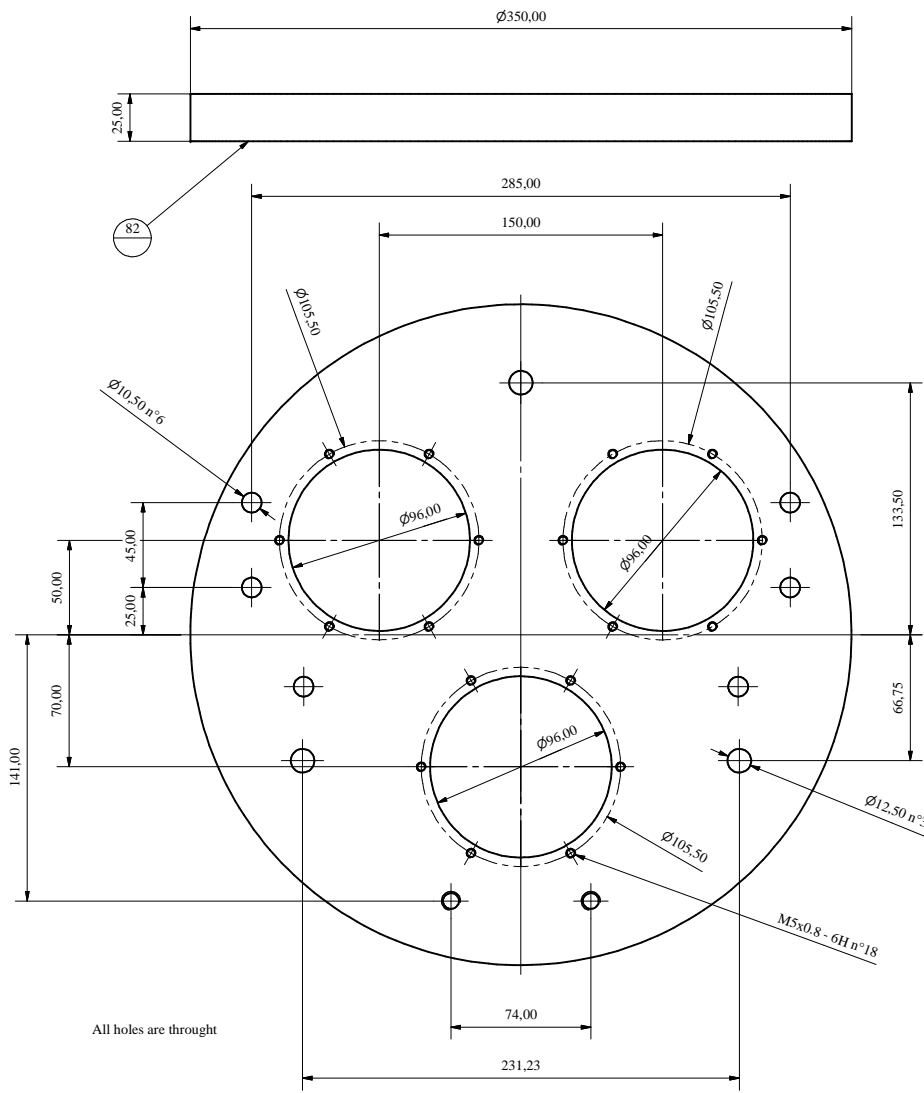
D-D (1:2)



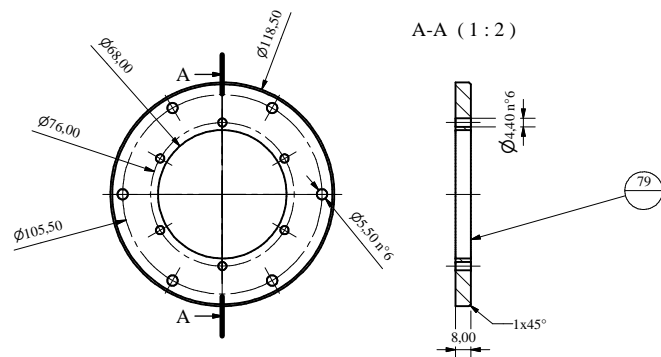
85	1	EN 6082	
ref.	pieces	mat.and treatments	scale

GENERAL MACHINING TOLERANCES UNI 5307-02							
DIMENSIONS	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
LINEAR TOL.	+ 0.1	+ 0.2	+ 0.3	+ 0.5	+ 0.8	+ 1.2	+ 2
ANGULAR TOL.	+ 1'	+ 30'	+ 20'	+ 10' REFERED TO THE SHORTEST SIDE			

DESIGNED FOR		R. De Salvo	
DRAW. BY		Gennaro-PROMECC	
DATE		22-05-07	
SCALE		1/2	
TITLE		MH INTERFEROMETER	
DETAILS		MH1.038-00	
REPLACE DRAW N°		037	
DETAIL FROM		A2	



A-A (1:2)



ref.	pieces	mat. and treatments	scale
84	1	EN 6082	1/2
83	1	EN 6082	1/2
82	1	EN 6082	1/2
79	6	EN 6082	1/2

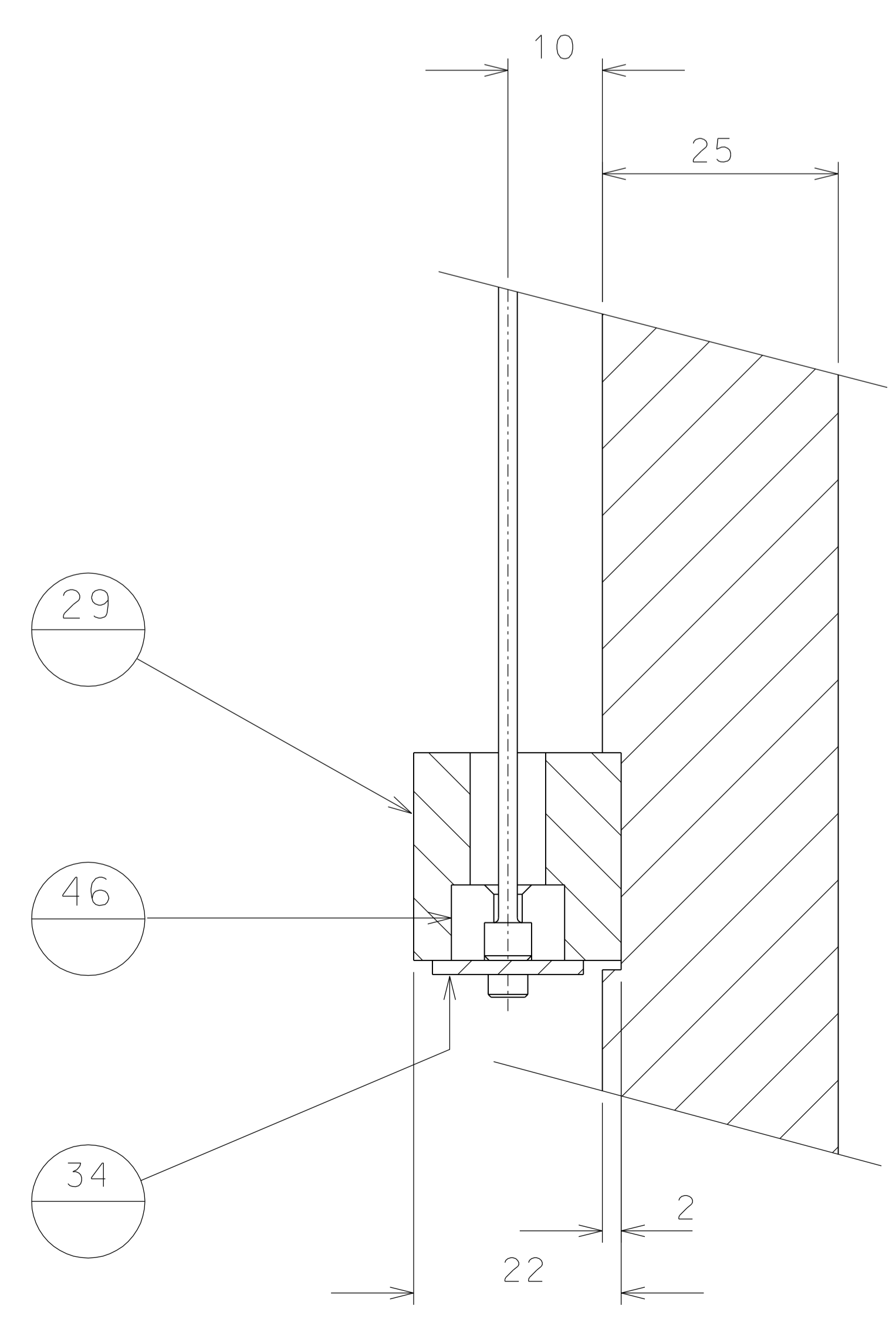
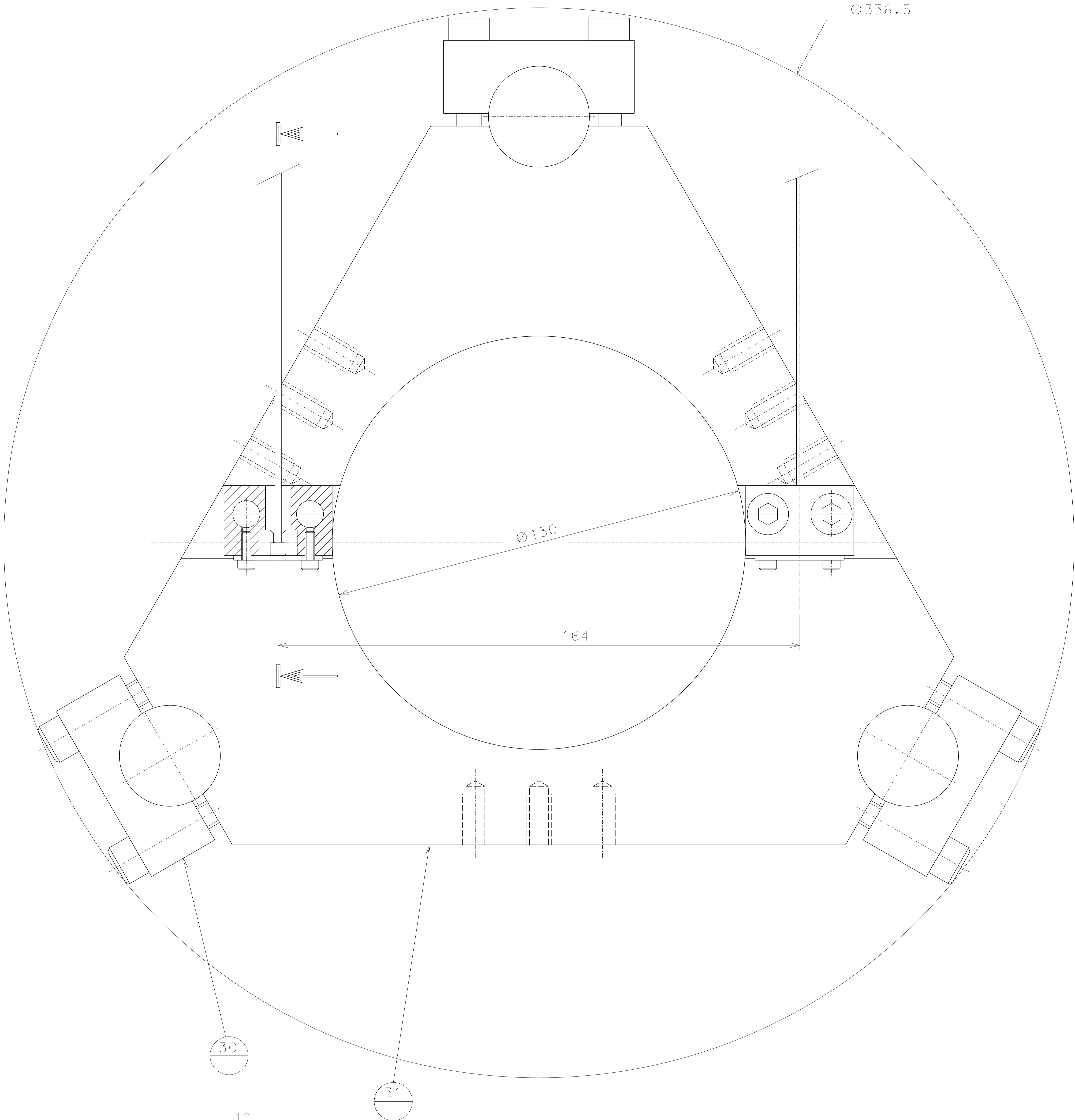
GENERAL MACHINING TOLERANCES UNI 5307-02								
DIMENSIONS	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
LINEAR TOL.	+0.1	+0.2	+0.3	+0.5	+0.8	+1.2	+2	+3
ANGULAR TOL.	+1	+30'	+20'	+10' REFERRED TO THE SHORTEST SIDE				

DESIGNED FOR		R. De Salvo	
DRAWN BY		Gennaro-PROMECC	
DATE	22-05-07	SCALE	1/2
N° DRAW.		MHI.039-00	
TITLE		MH INTERFEROMETER	
DETAILS		REPLACE DRAW N°	037
		DETAIL FROM	A2

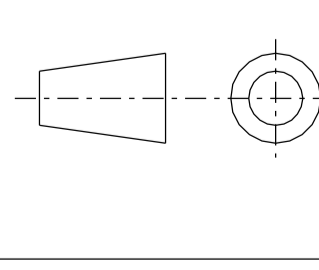
1 2 3 4 5

A
B
C
D
E
F
G

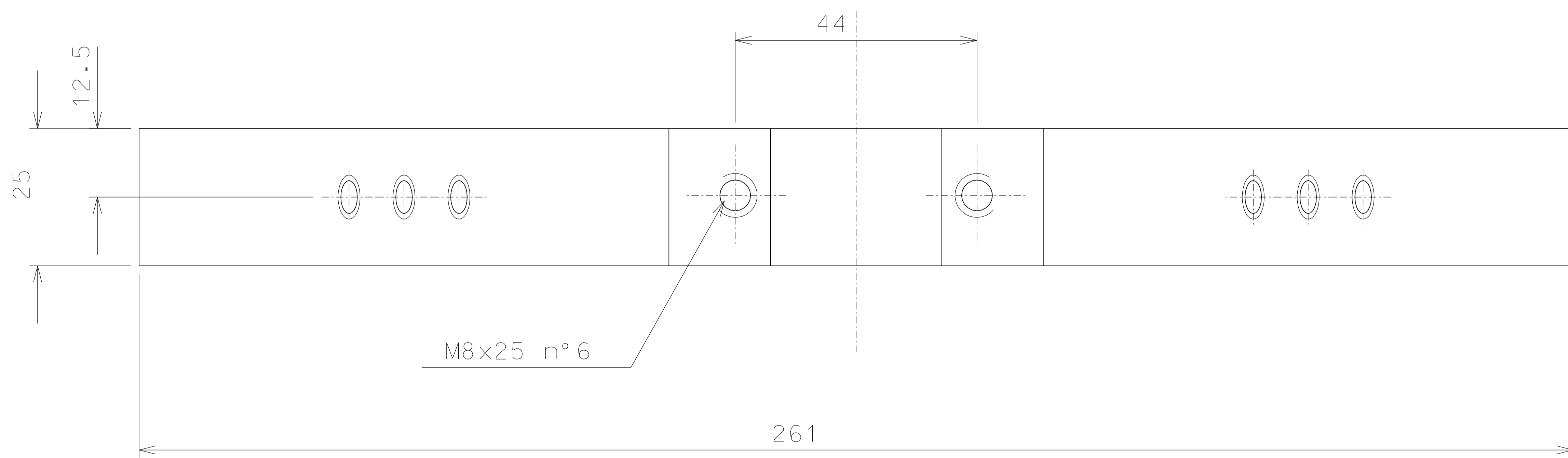
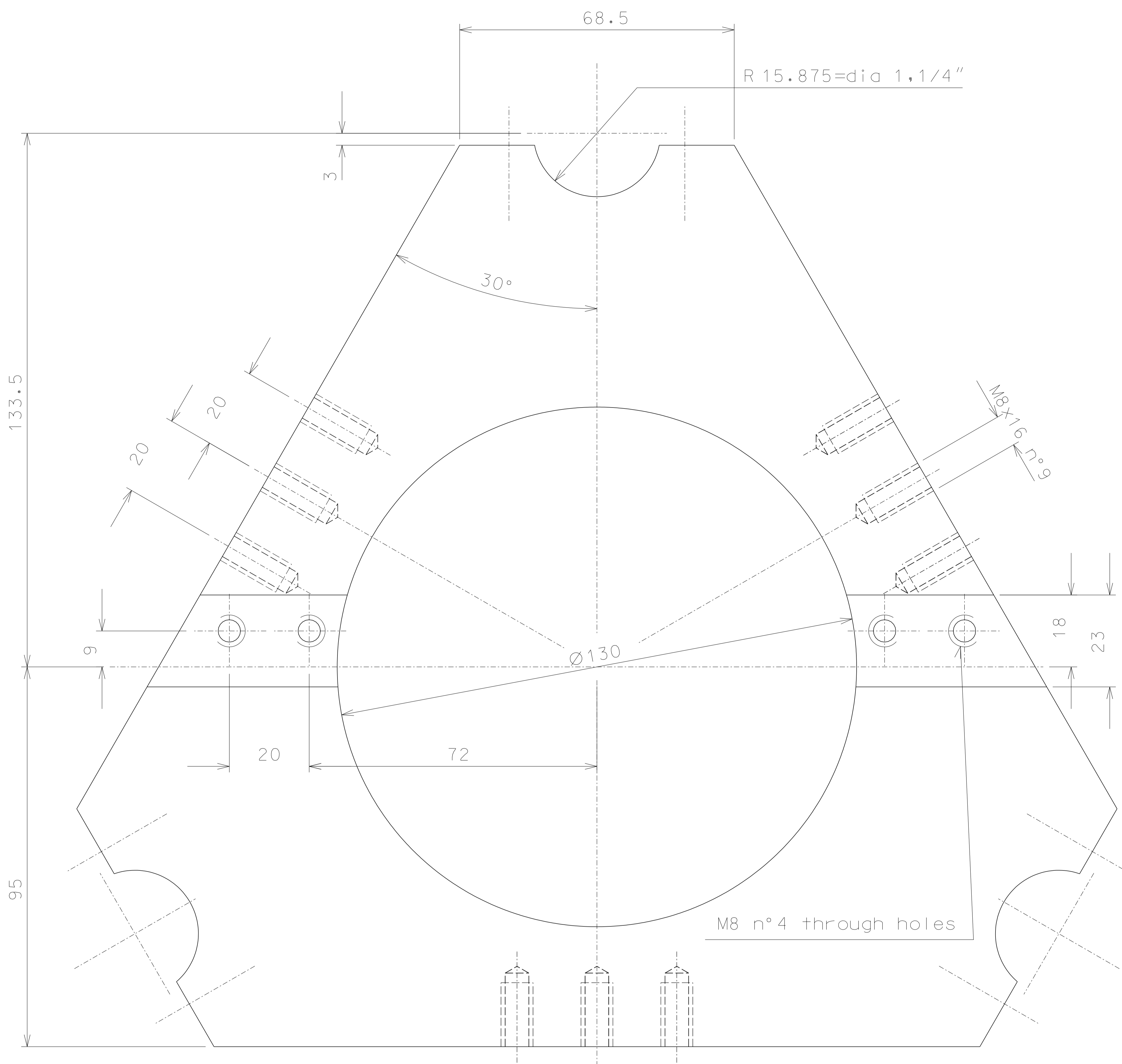
A
B
C
D
E
F
G



34	010	wire retainer			
46	010	wire 1/2 cups			
31	009	middle spacer			
30	007	spacer clamp			
29	010	wire block			
ref.	draw.	added legend	ref.	draw.	added legend

 PROMEC s.r.l. <i>Bientina (Pisa)-Italia</i>	R. De Salvo designed for	
	draftsman G. Gennaro	
title LASER INTERNAL PLATE	ass. numb. Laser.005	
	date 2-02-04	
	scale 1:1	issue A
	replaces draw. n° A 2	

1 2 3 4 5



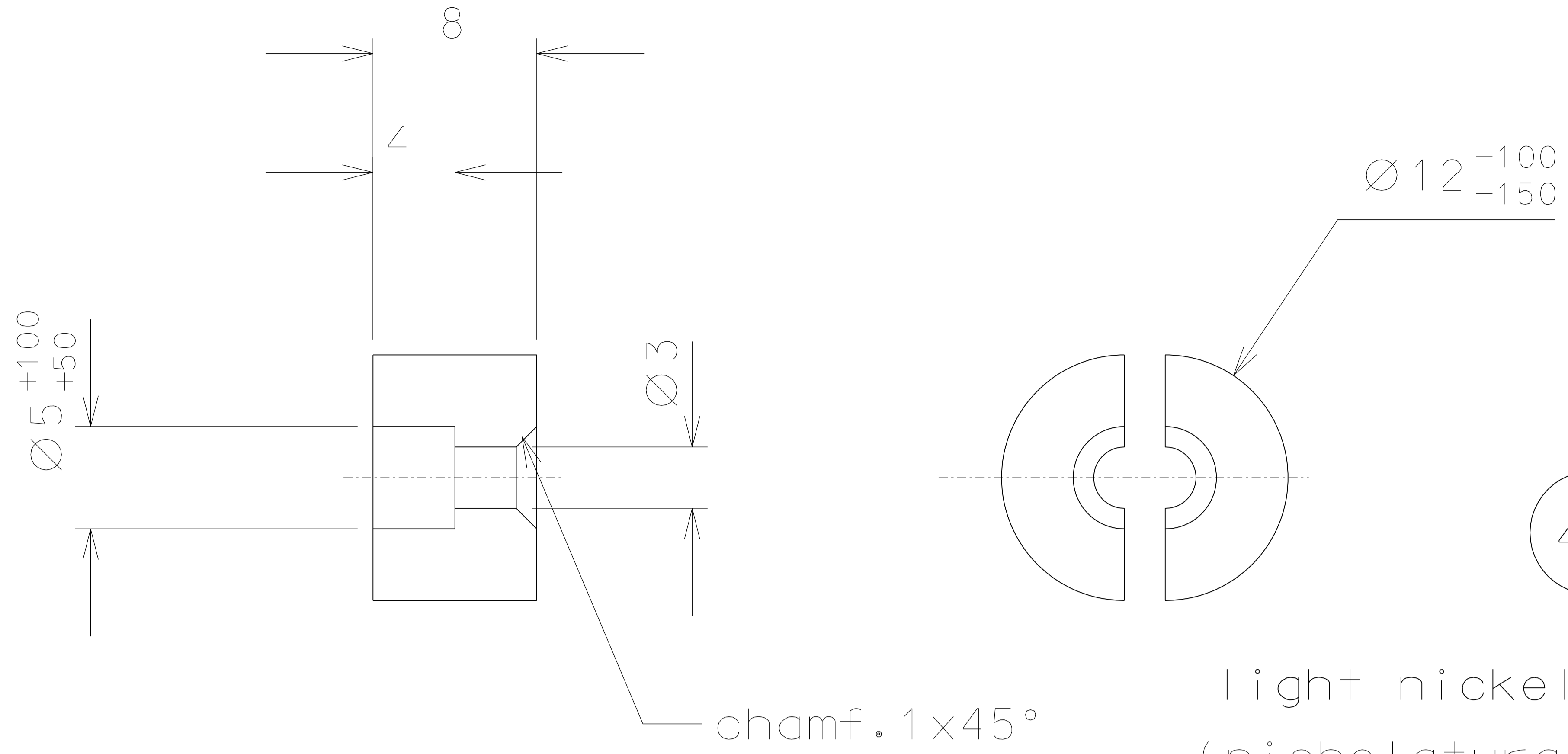
31	3	EN-6082	1:1				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1	± 30'	± 20'	± 10' referred to the shortest side			

		PROMEC s.r.l. <i>Bientina (Pisa)-Italia</i>	R. De Salvo designed for	
			draftsman G. Gennaro	
title LASER DETAILS			n° draw. Laser.009	
			date 2-02-04	scale 1:1
			detail from 005	issue A
			replaces draw. n°	A 2

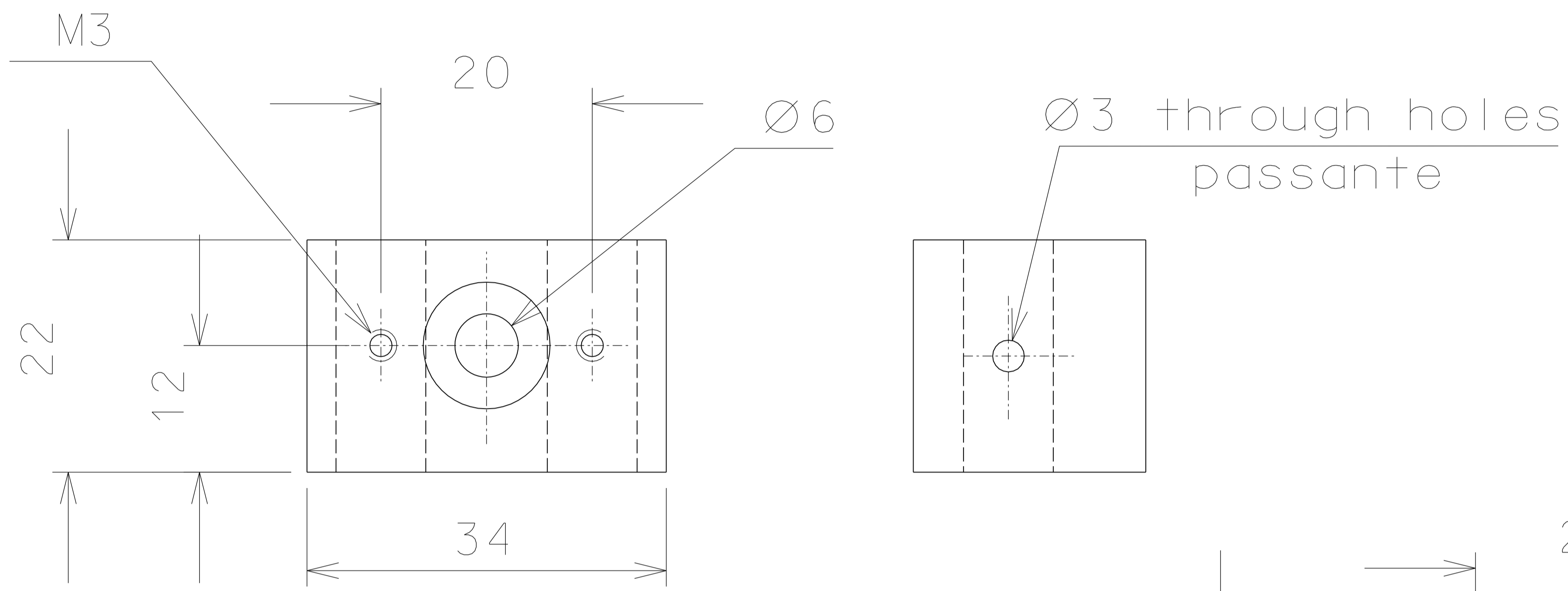
A
B
C
D
E
F

A
B
C
D
E
F

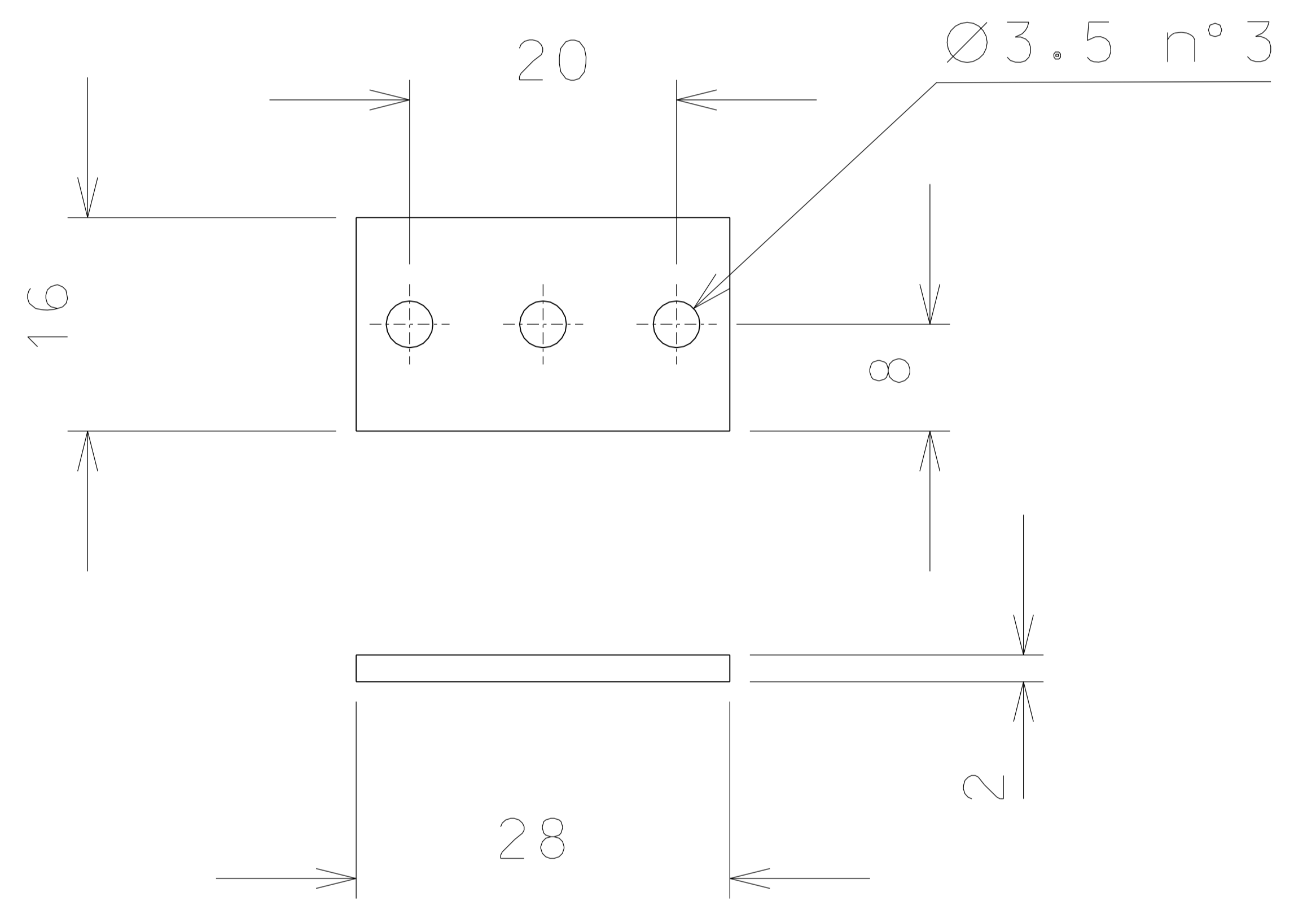
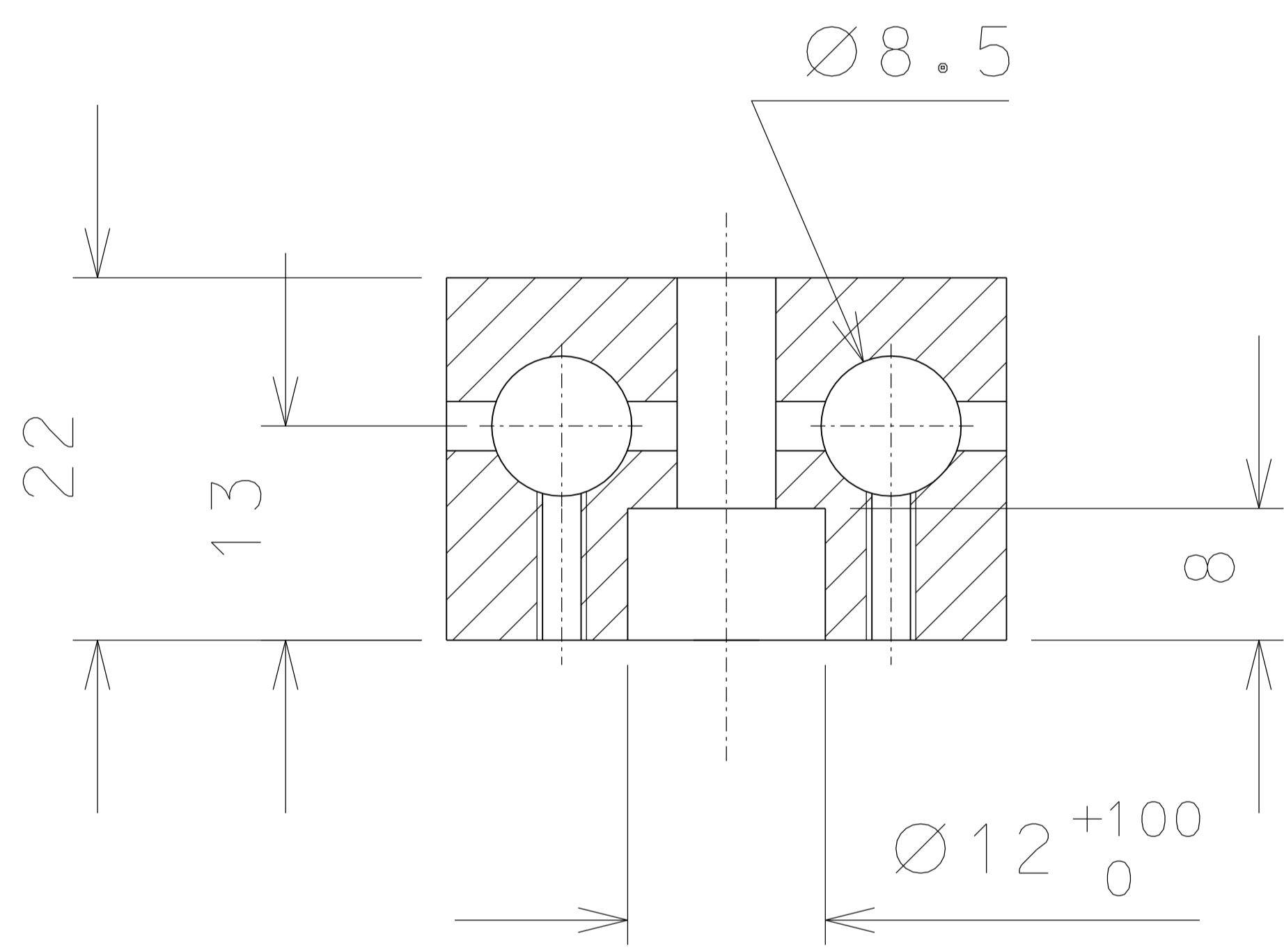


46

light nickel plated
(nichelatura leggera)



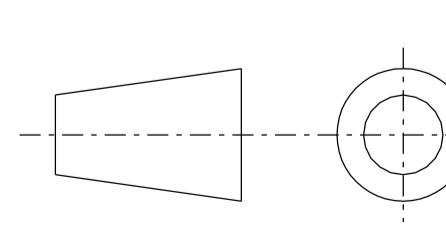
29

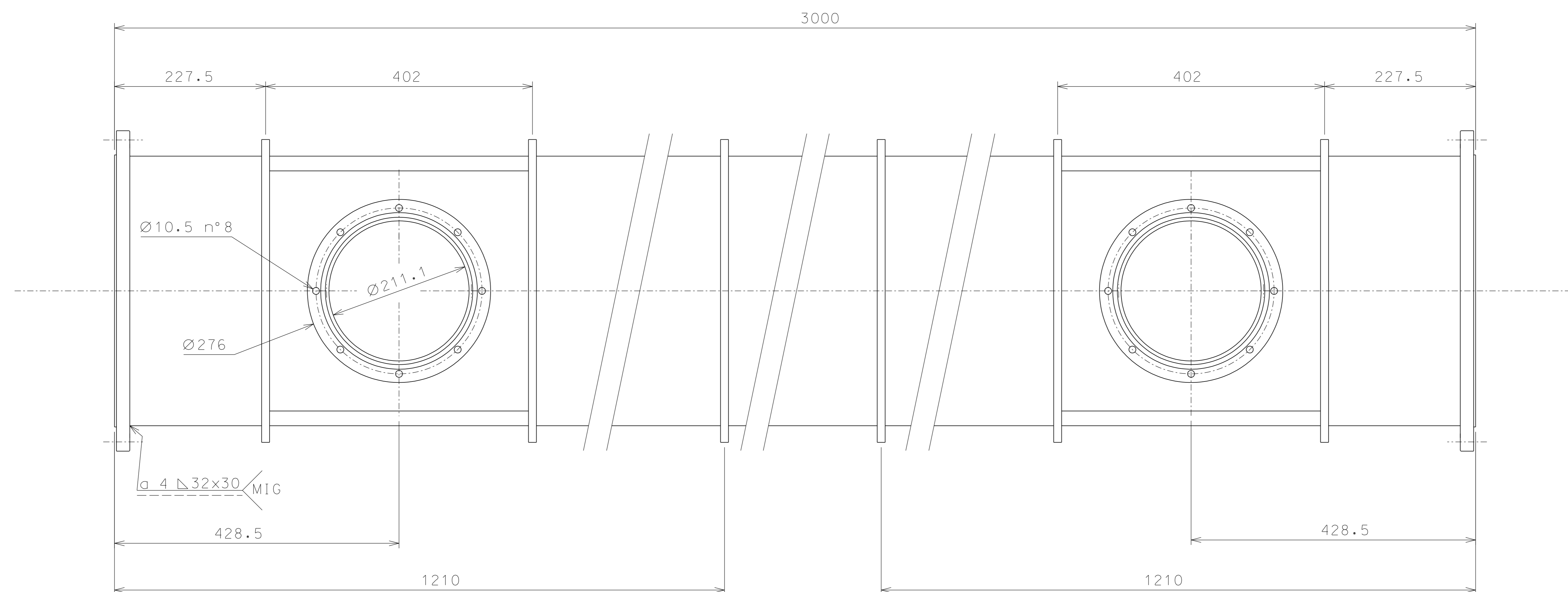
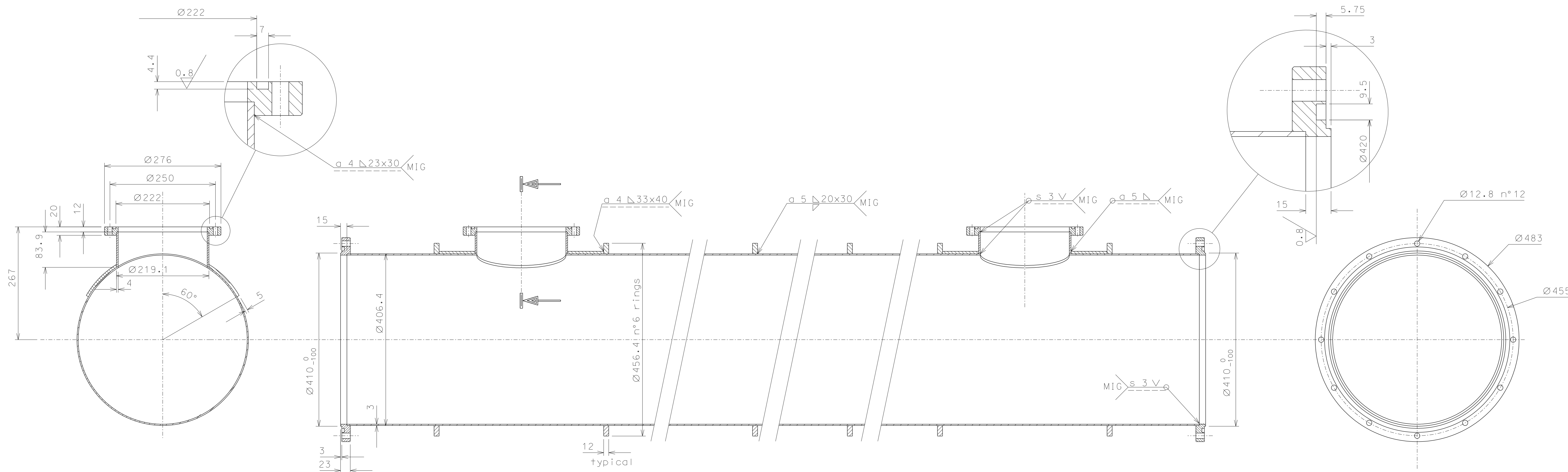


34

34	4	Nickel plated steel	1:1
46	16	C40	2:1
29	4	Nickel plated steel	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63										
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000		
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		
angular Toll.	± 1	± 30'	± 20'	± 10' referred to the shortest side						
	<h2>LIGO PROJECT</h2>					designed for R. De Salvo				
						draw. by PROMEC				
title <h3>LASER DETAILS</h3>						n° draw. Laser.010				
						date 10-02-04		scale 1:1		
						detail from 024-005		issue A		
						replaces draw. n°		A 3		

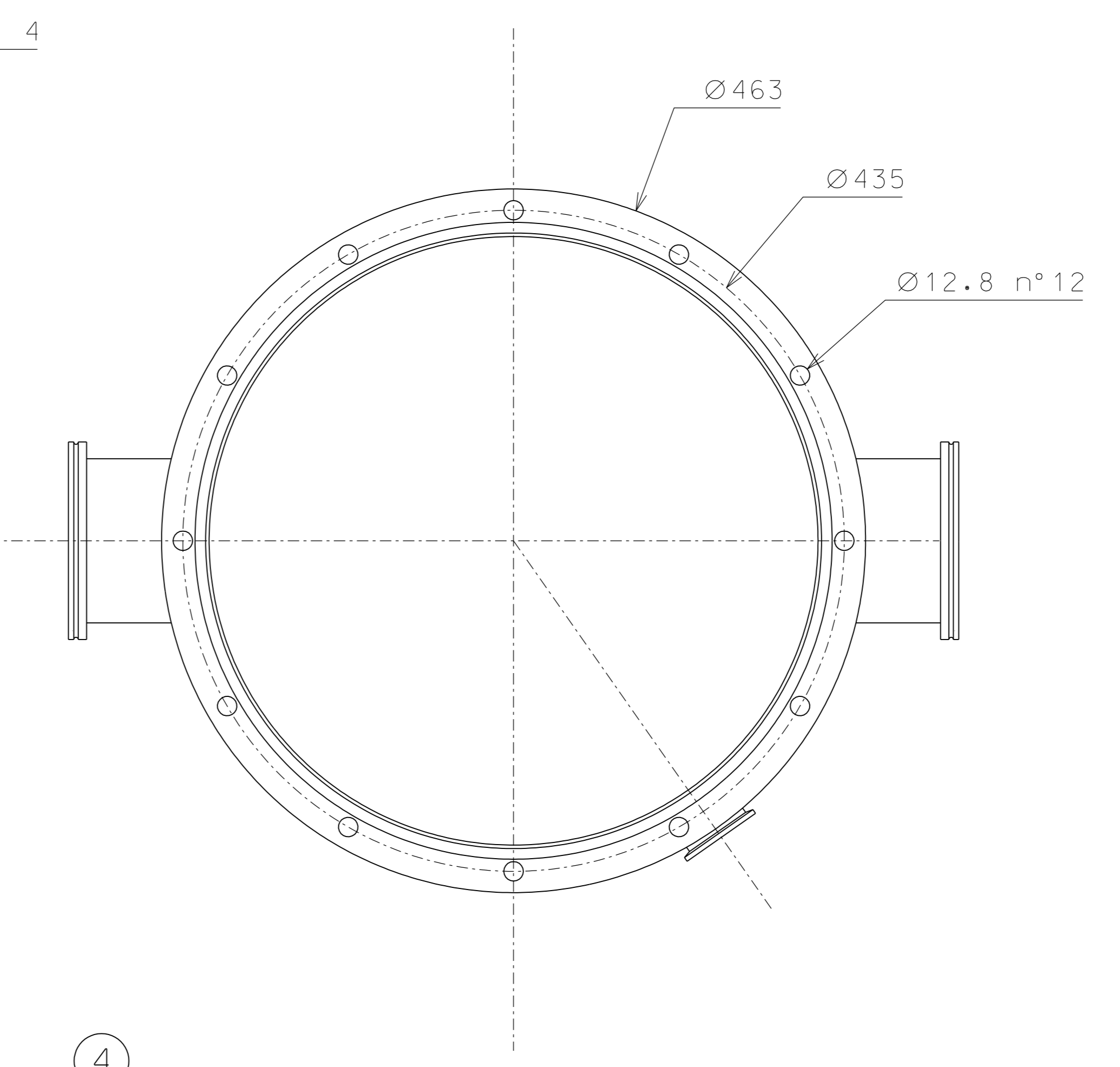
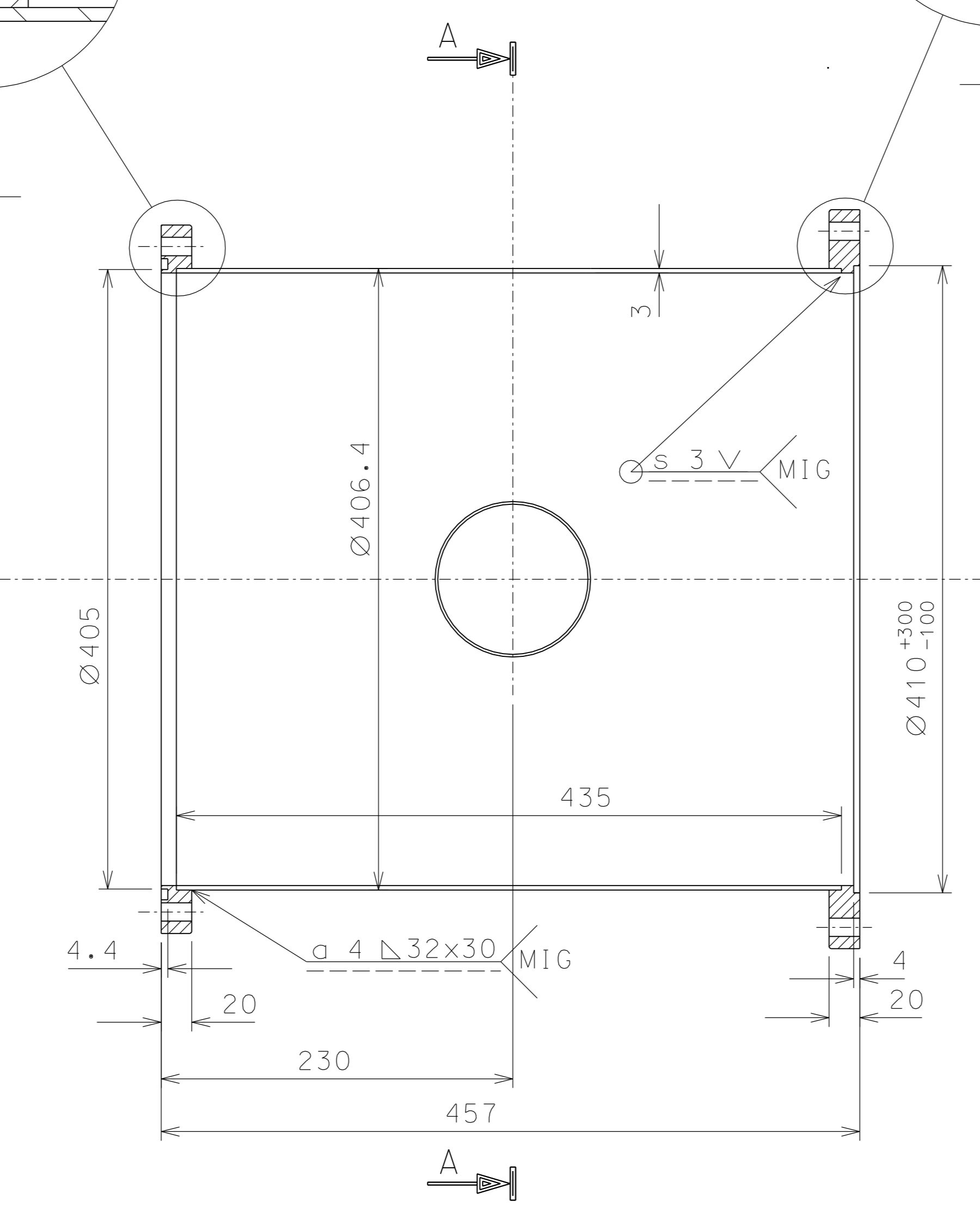
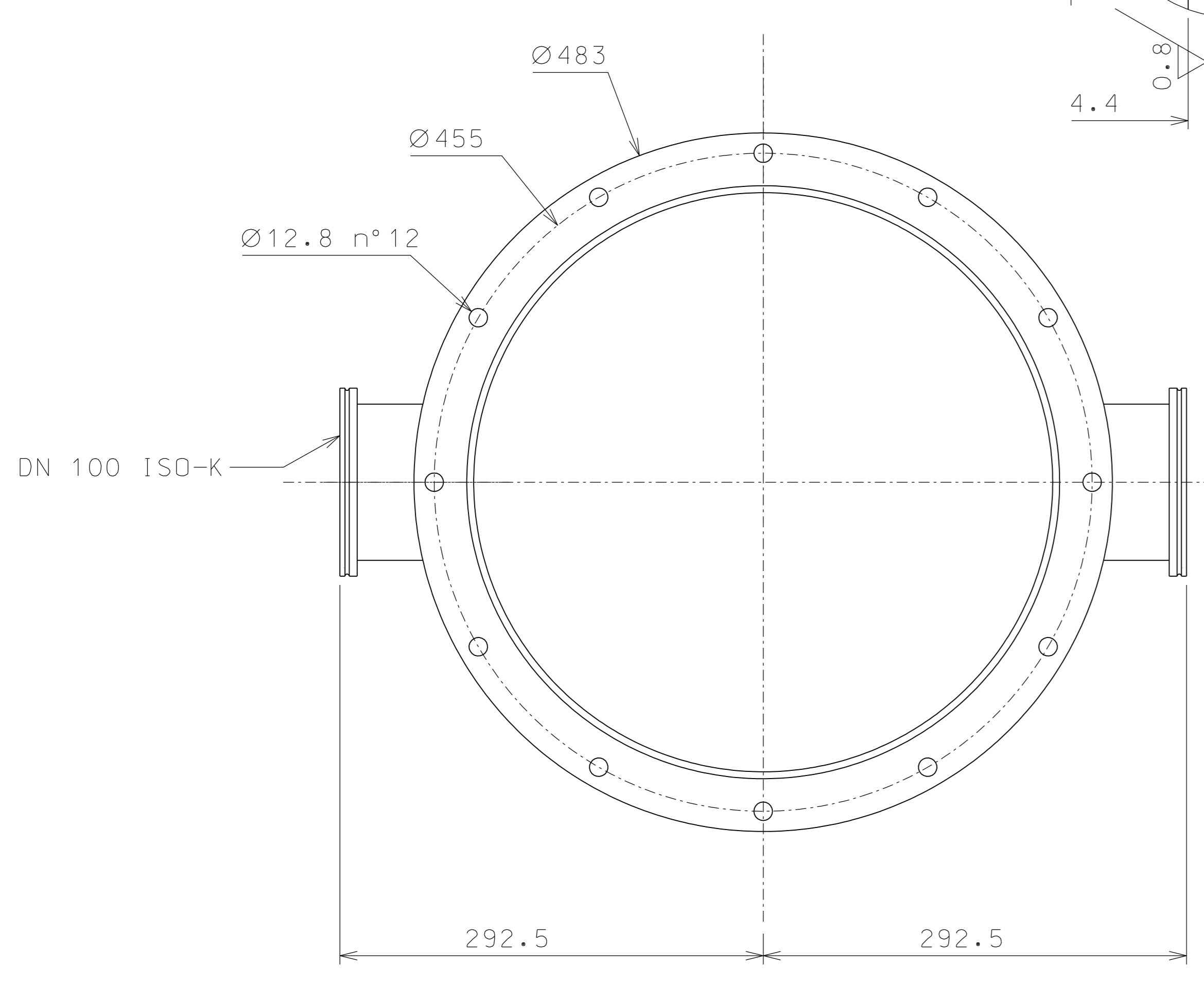
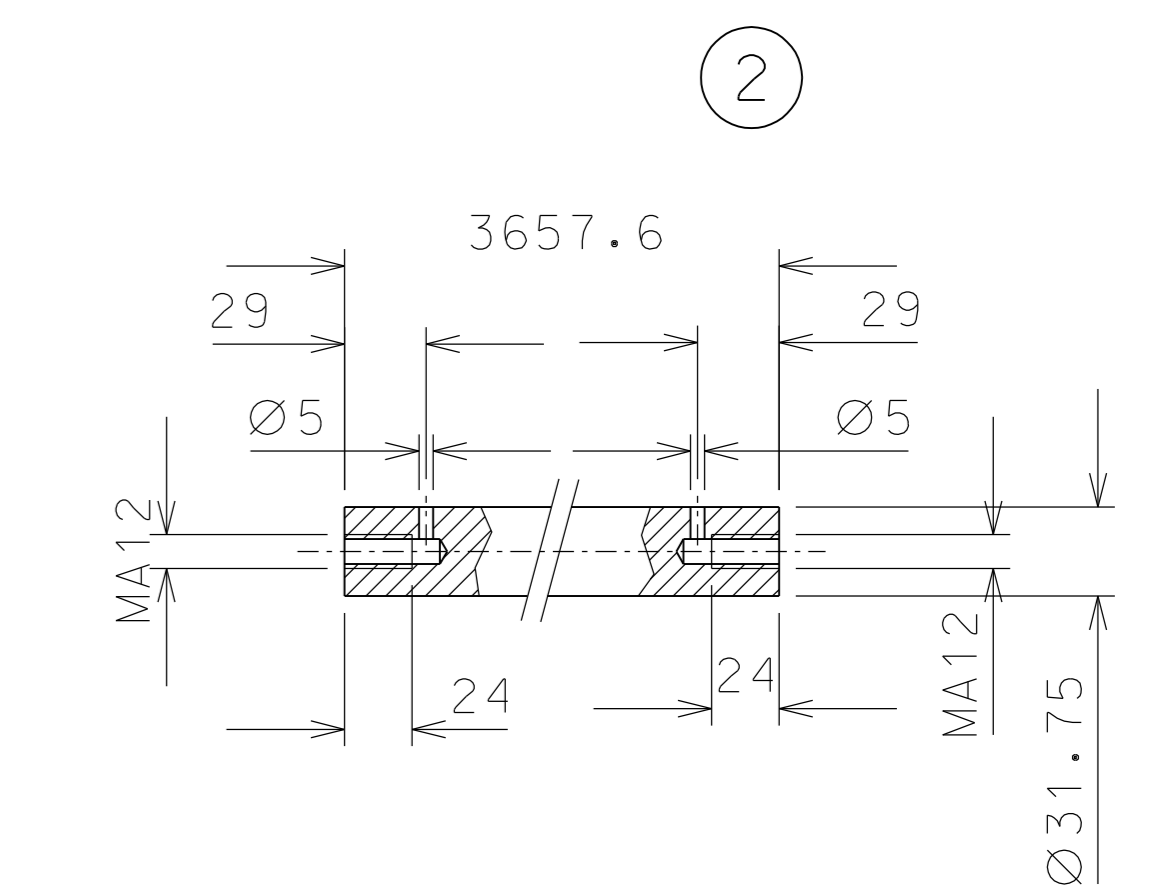
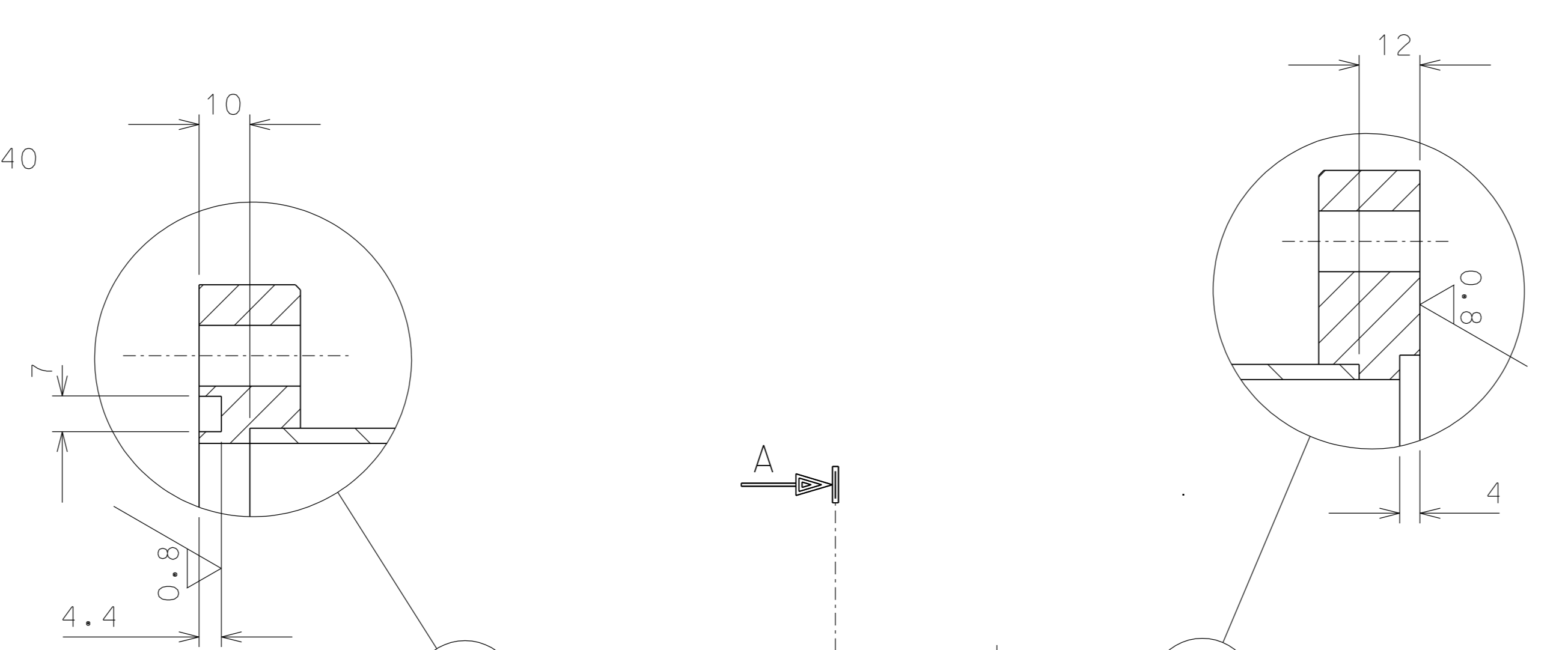
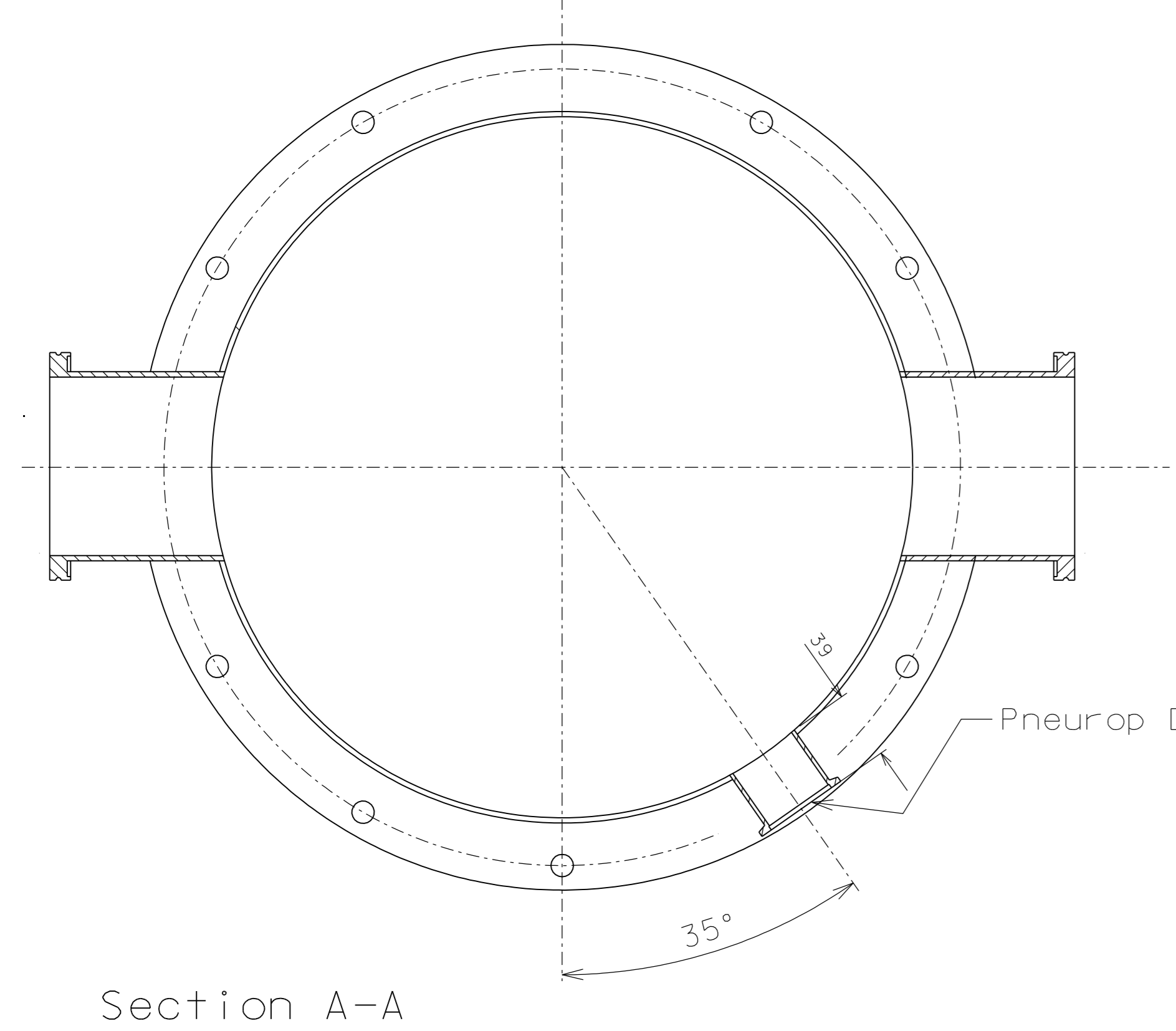
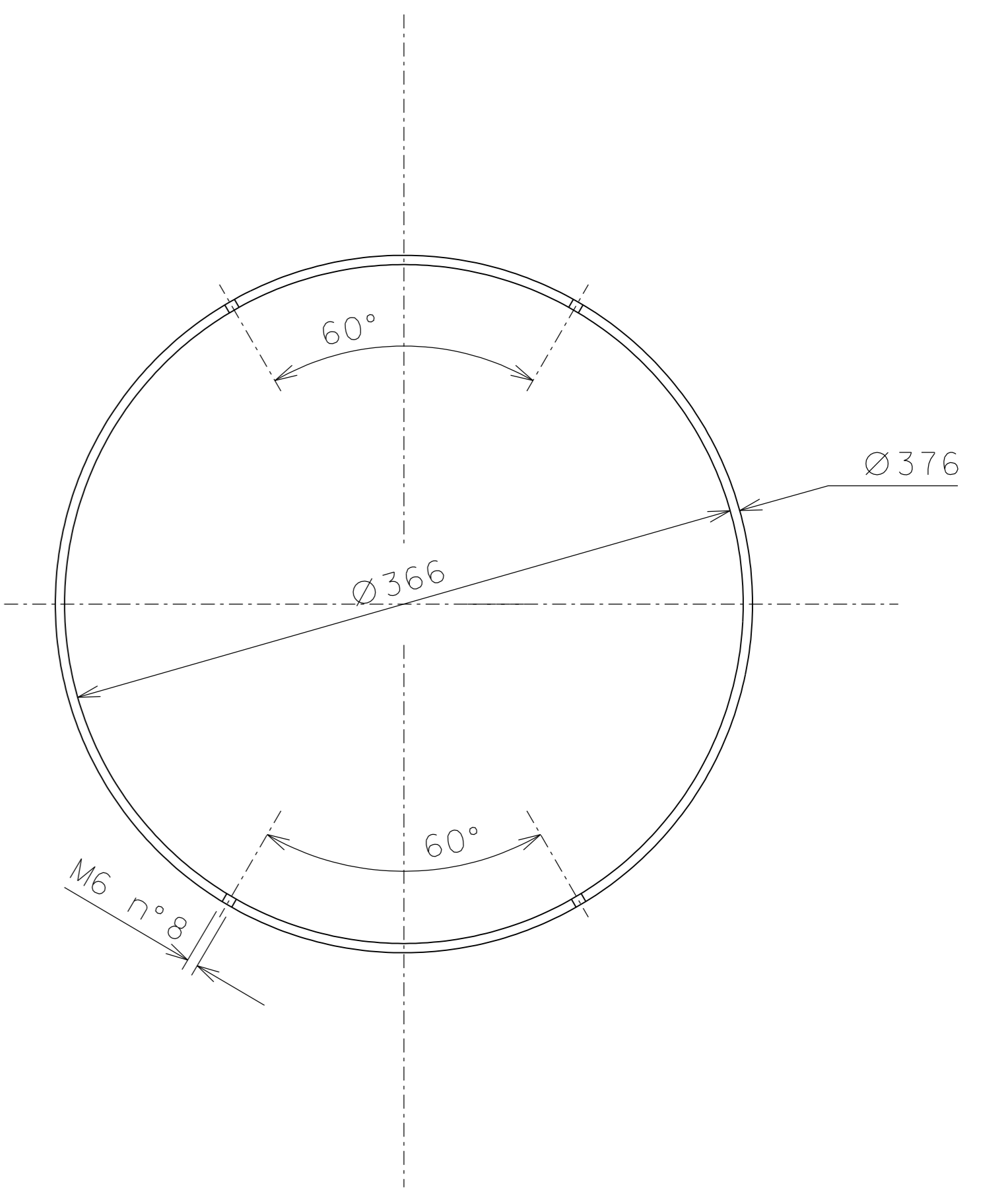
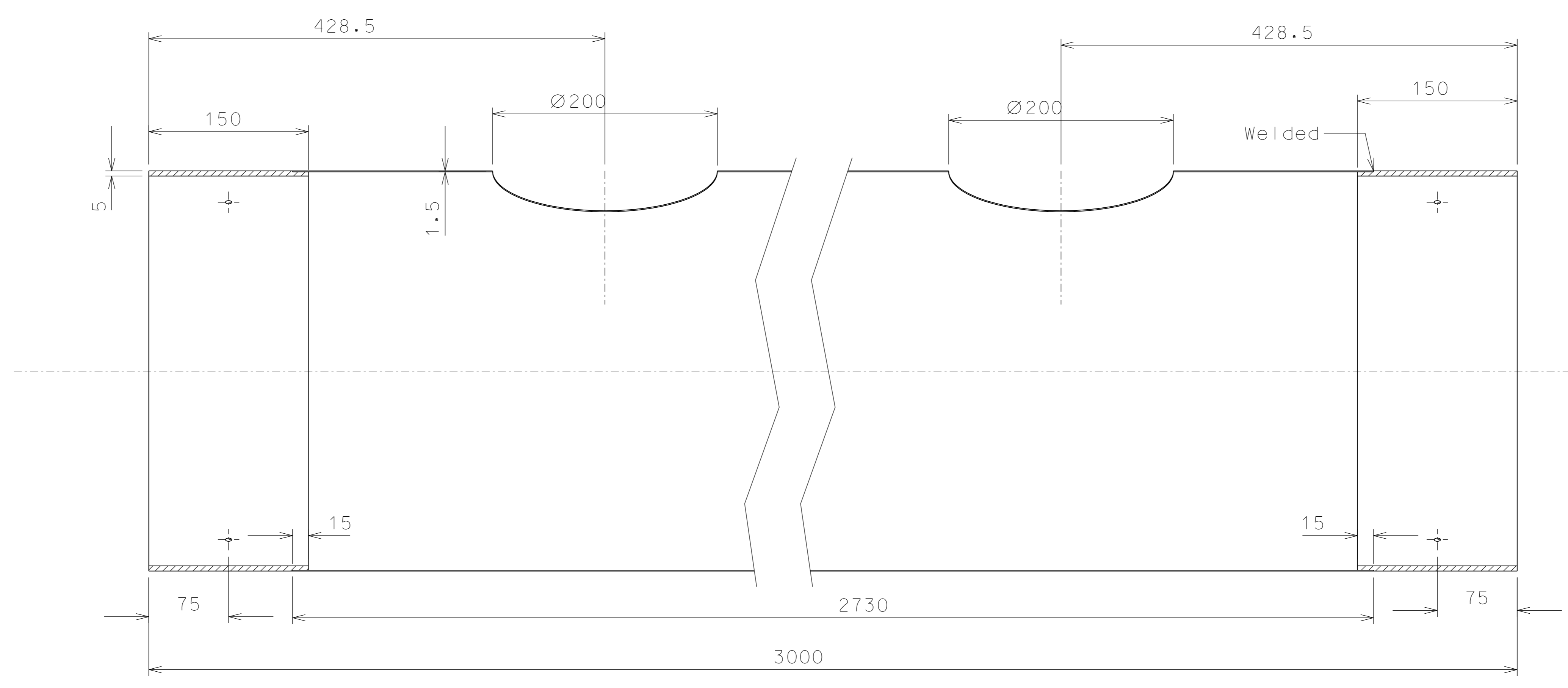
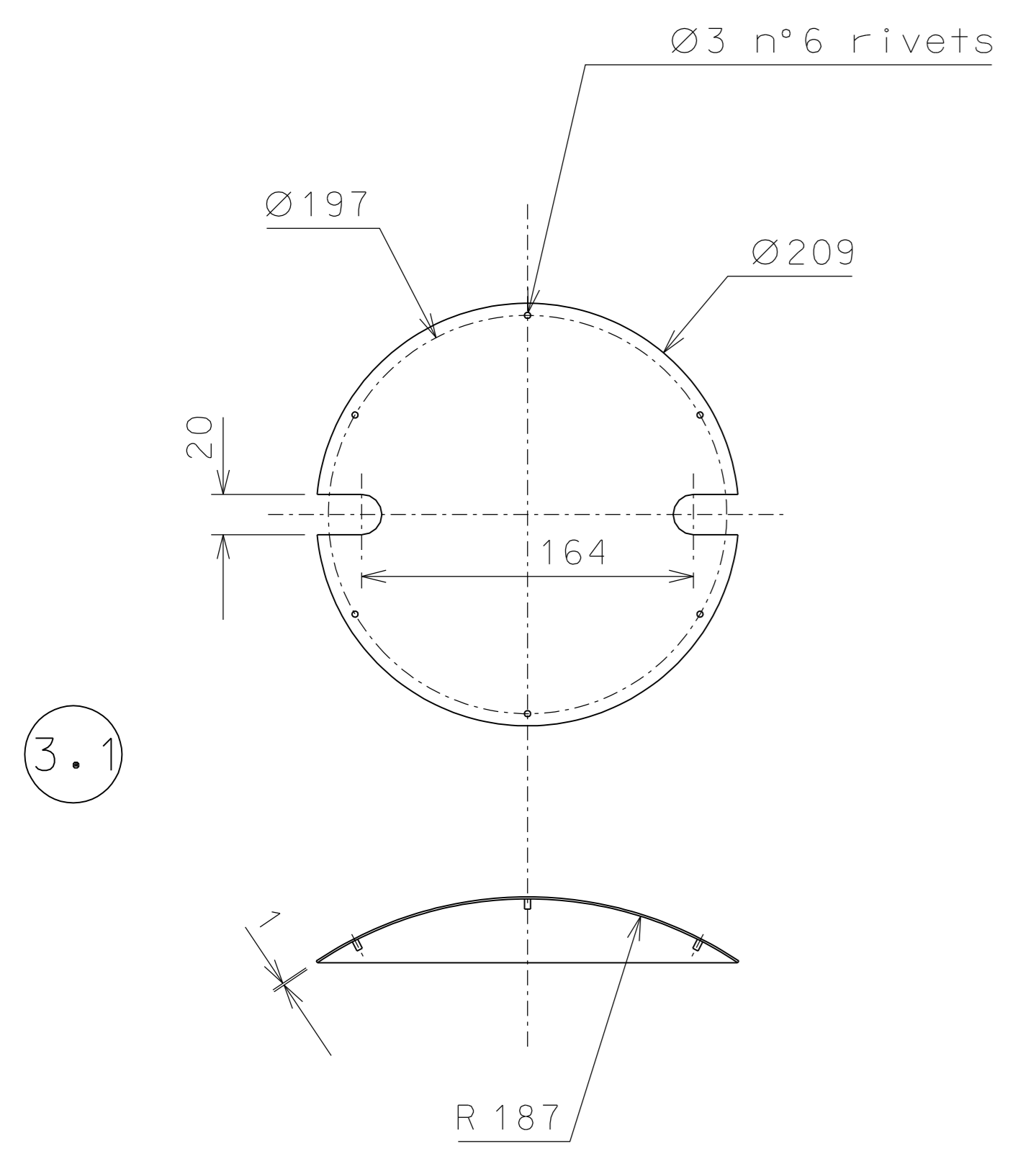


ref.	note	date	signature
modifications			

1	1	AISI 304 L	1:5
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toli.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toli.	± 1	± 30'	± 20'	± 10' referred to the shortest side			

		designed for R. De Salvo draw. by PROMEC n° draw. Laser.011	
title LASER DETAILS		date 12-02-04 scale 1:5 detail from issue A replaces draw. n° A 1	

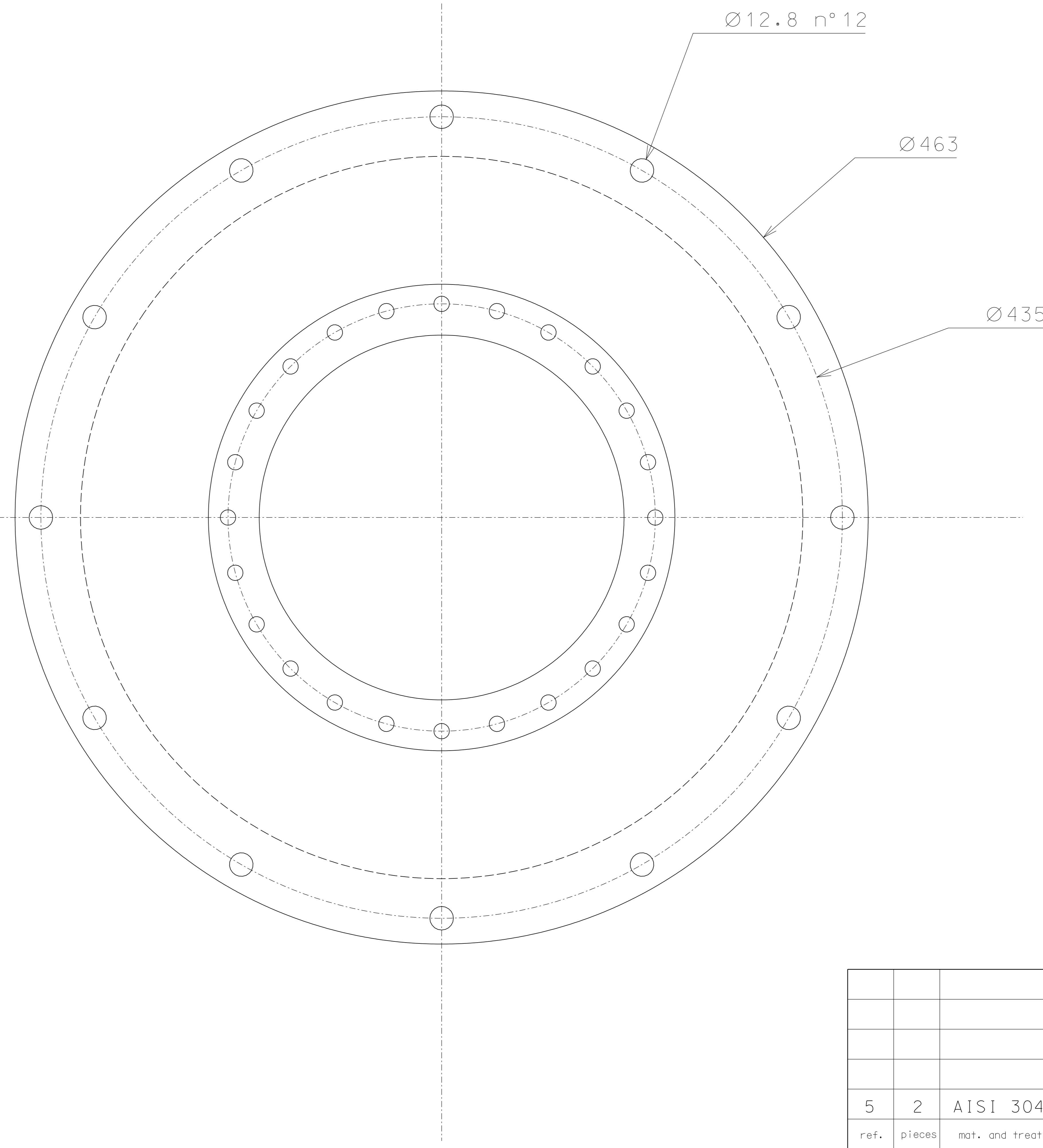
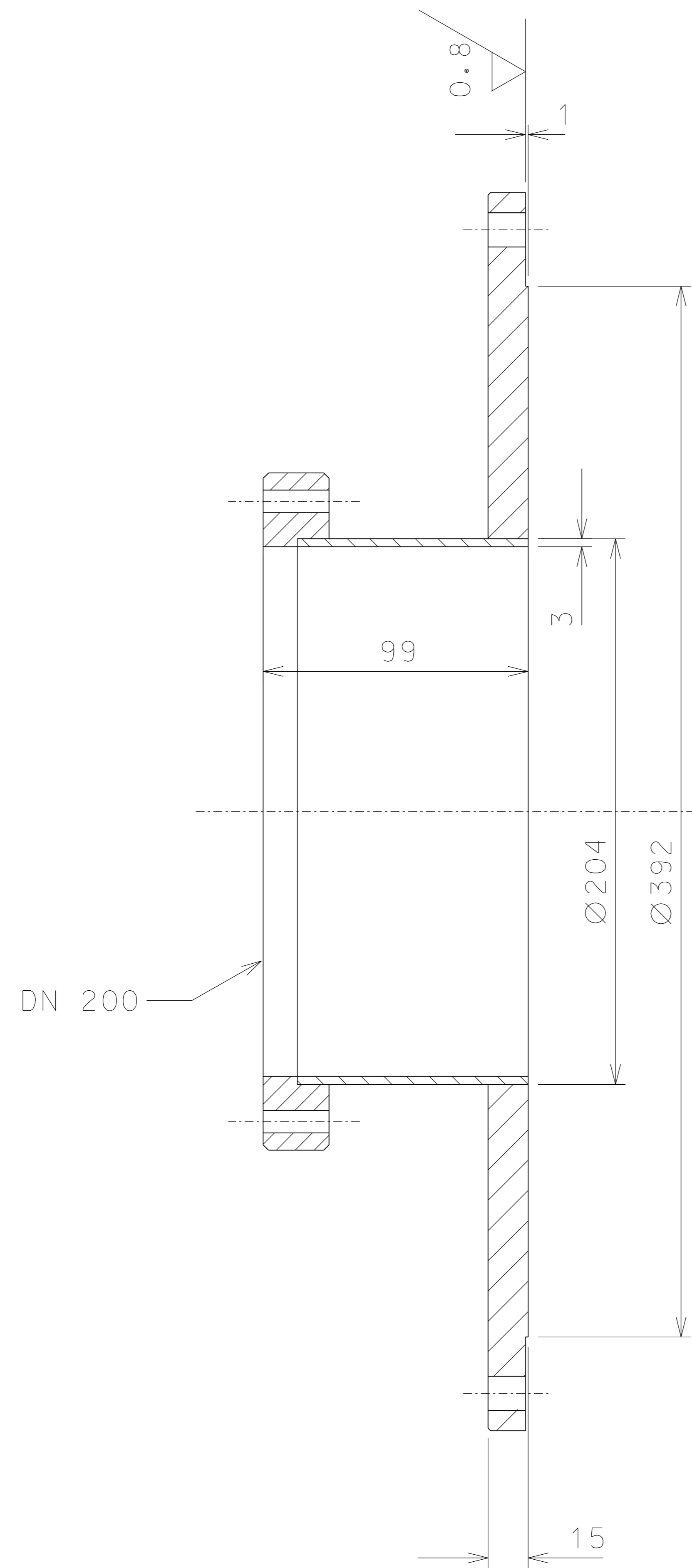


ref.	note	date	signature
modifications			

4	2	AISI 304 L	1:4
3.1	2	EN 5083	1:4
3	1	EN 5083	1:4
2	3	Invar	1:4
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toli.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toli.	± 1	± 30'	± 20'	± 10' referred to the shortest side			

		designed for R. De Salvo draw. by PROMEC n° draw. Laser. 012	
title LASER DETAILS		date 12-02-04 scale 1:4 detail from 000 issue A replaces draw. n° A 1	

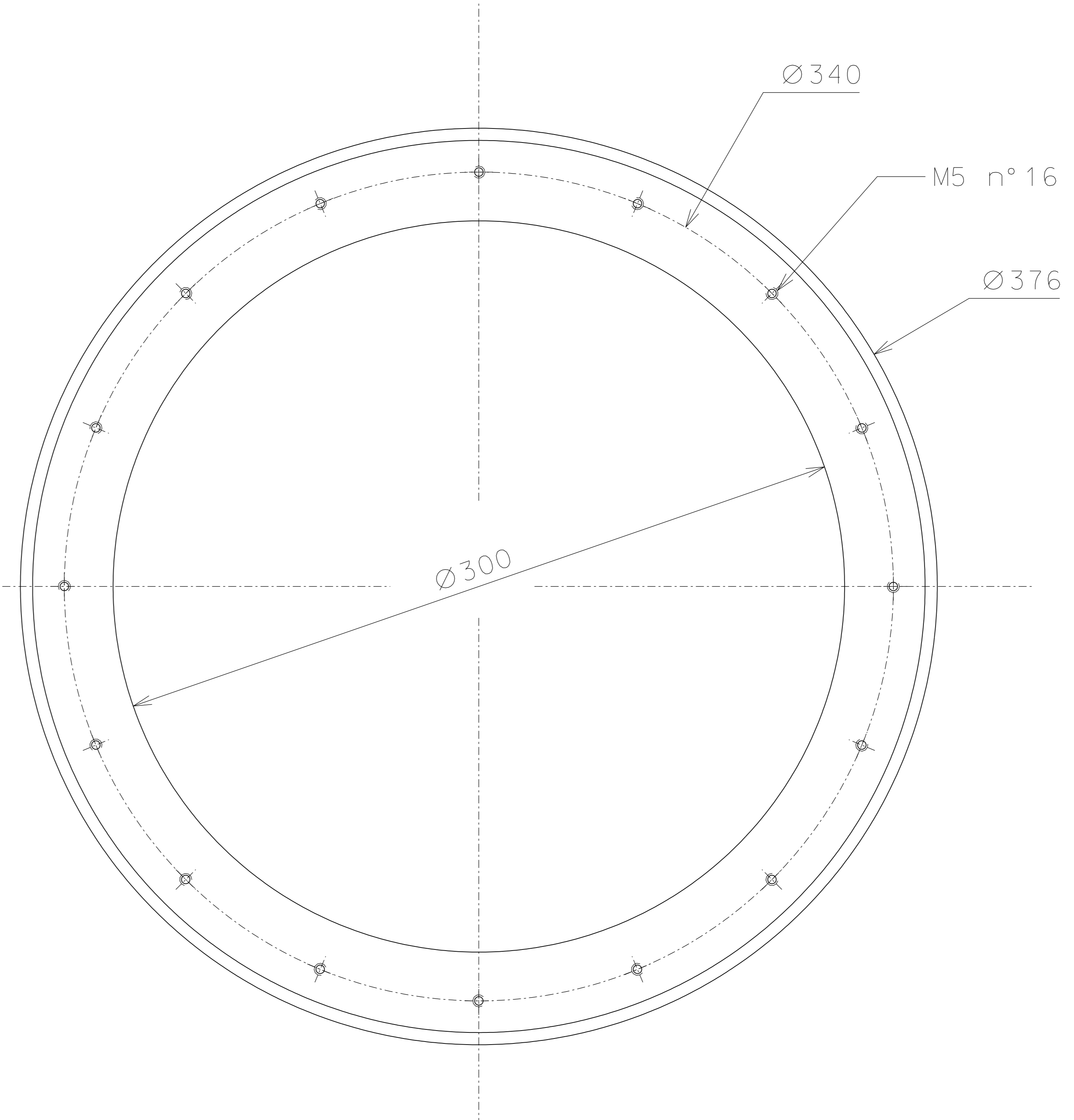
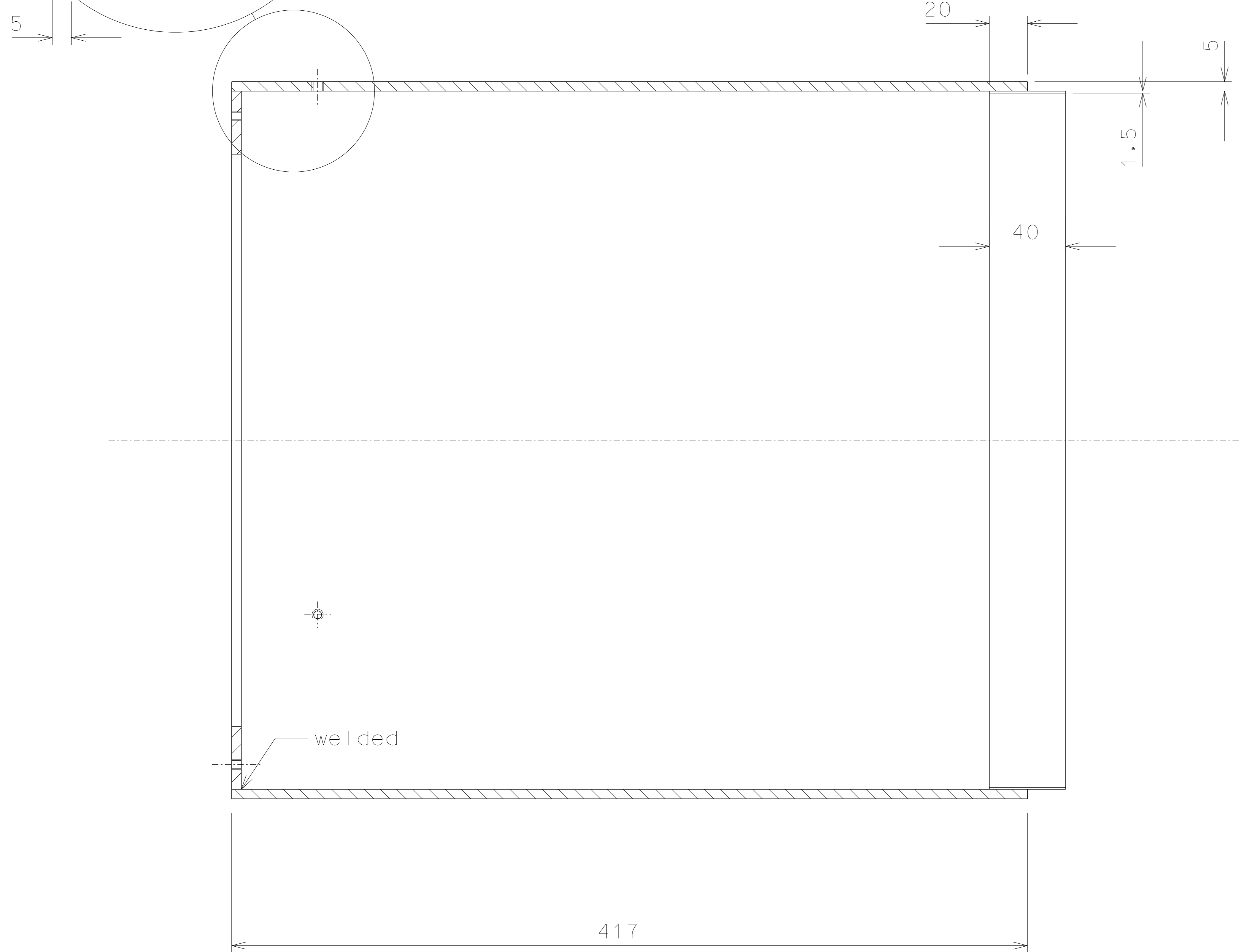
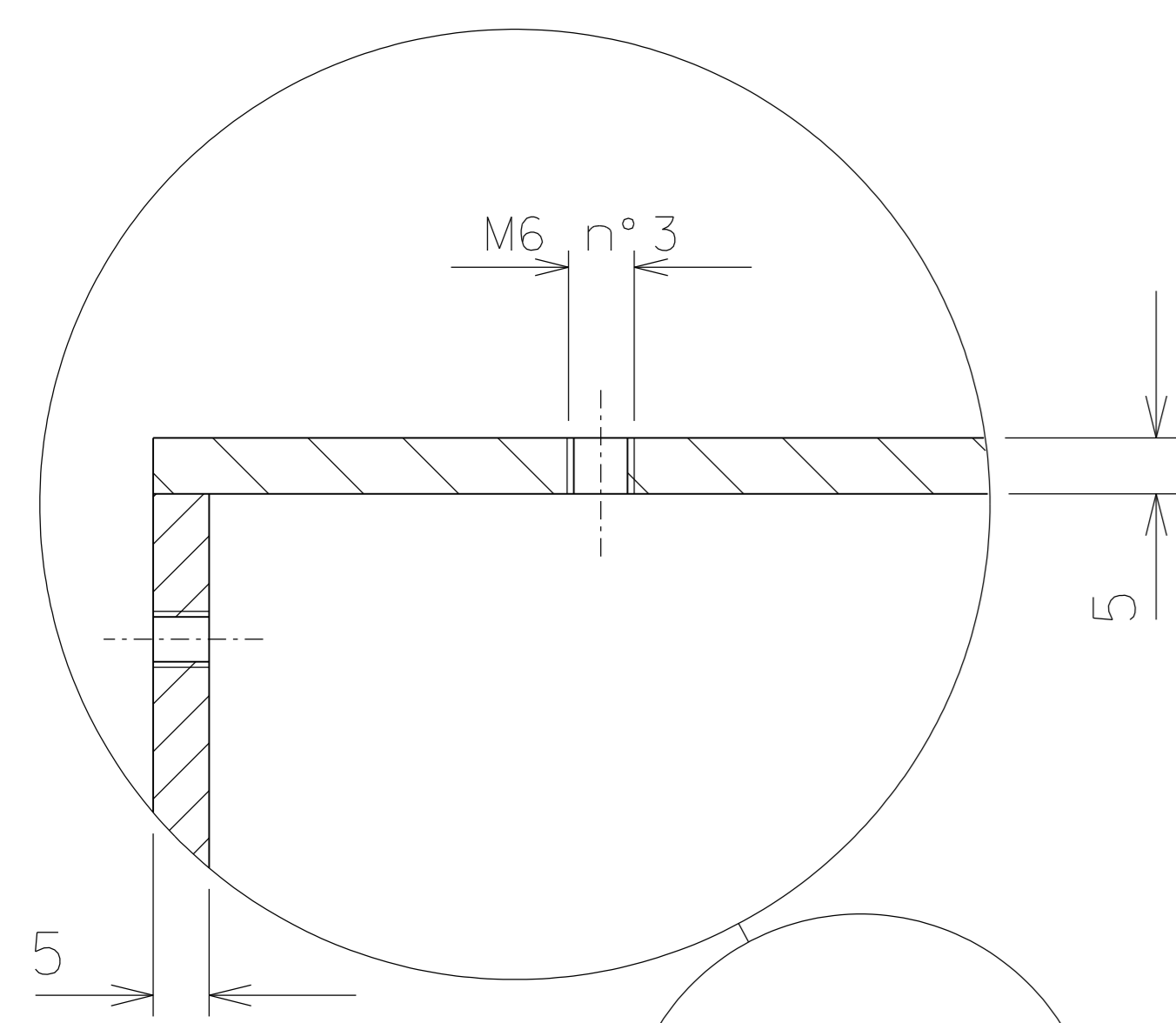


5	2	AISI 304 L	1:2.5				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10'				referred to the shortest side

	LIGO PROJECT		designed for R. De Salvo	
	LASER		draw. by PROMEC	
DETAIL		n°draw. Laser.013		
title		date 5-02-04	scale 1:2.5	
		detail from 000	issue A	
		replaces draw. n°	A 2	

ref.	note	date	signature
modifications			

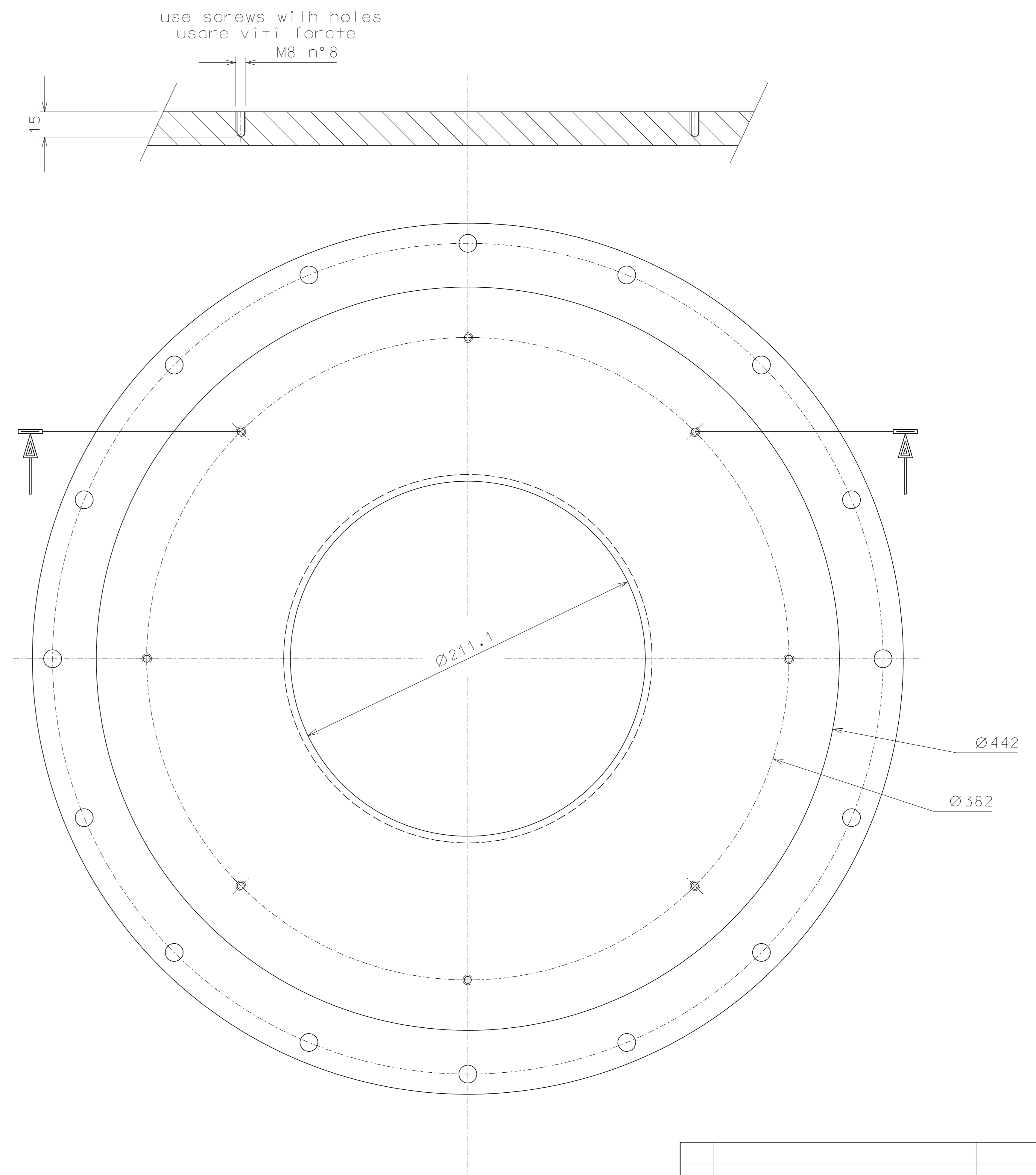
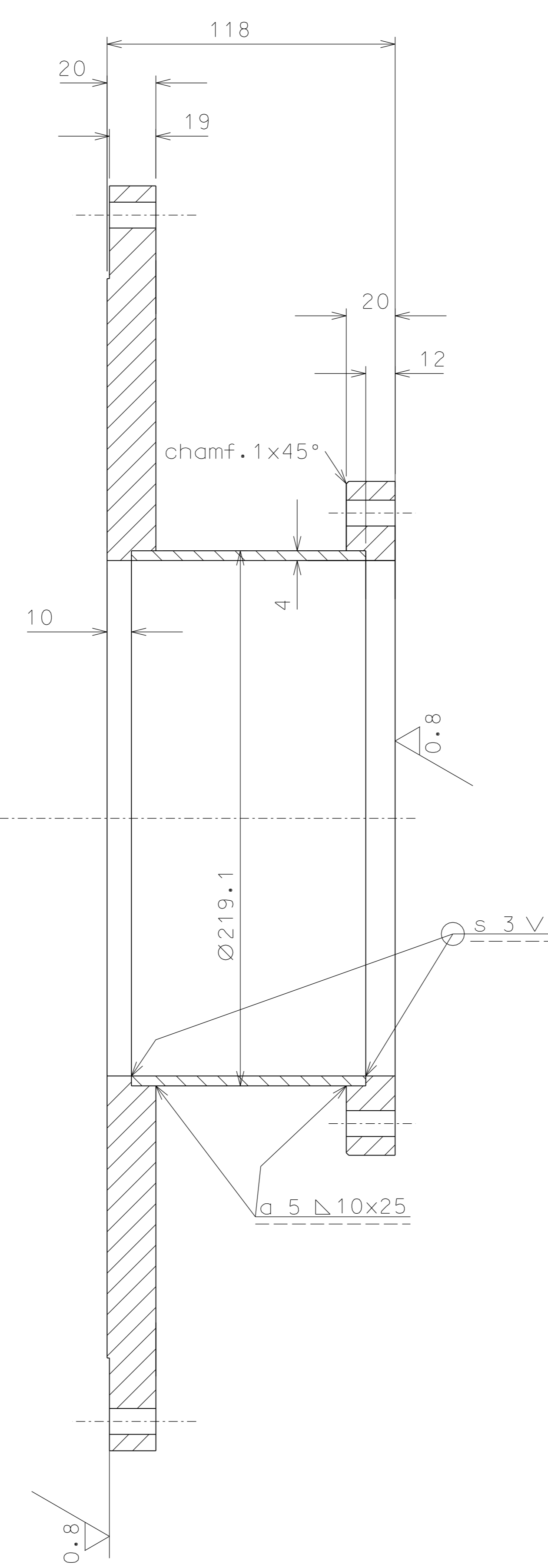
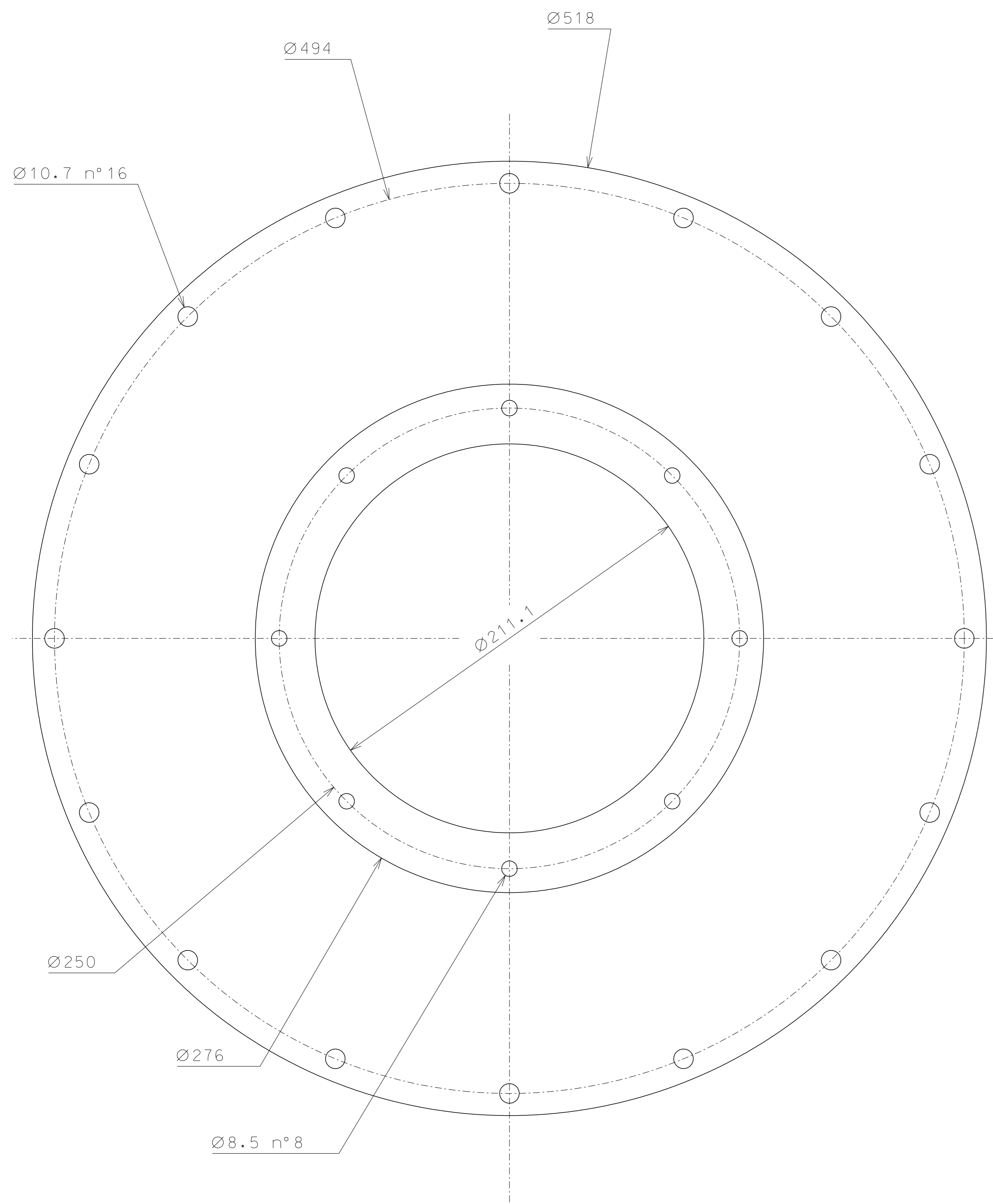


14	2	EN 5083	1:2.5				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1'	± 30'	± 20'	± 10' referred to the shortest side			

	LIGO PROJECT		designed for R. De Salvo	
	LASER		draw. by PROMEC	
	DETTAGLI		n° draw. Laser.014	
			date 12-02-04 scale 1:2.5	
		detail from 024 issue A		
		replaces draw. n° A 2		

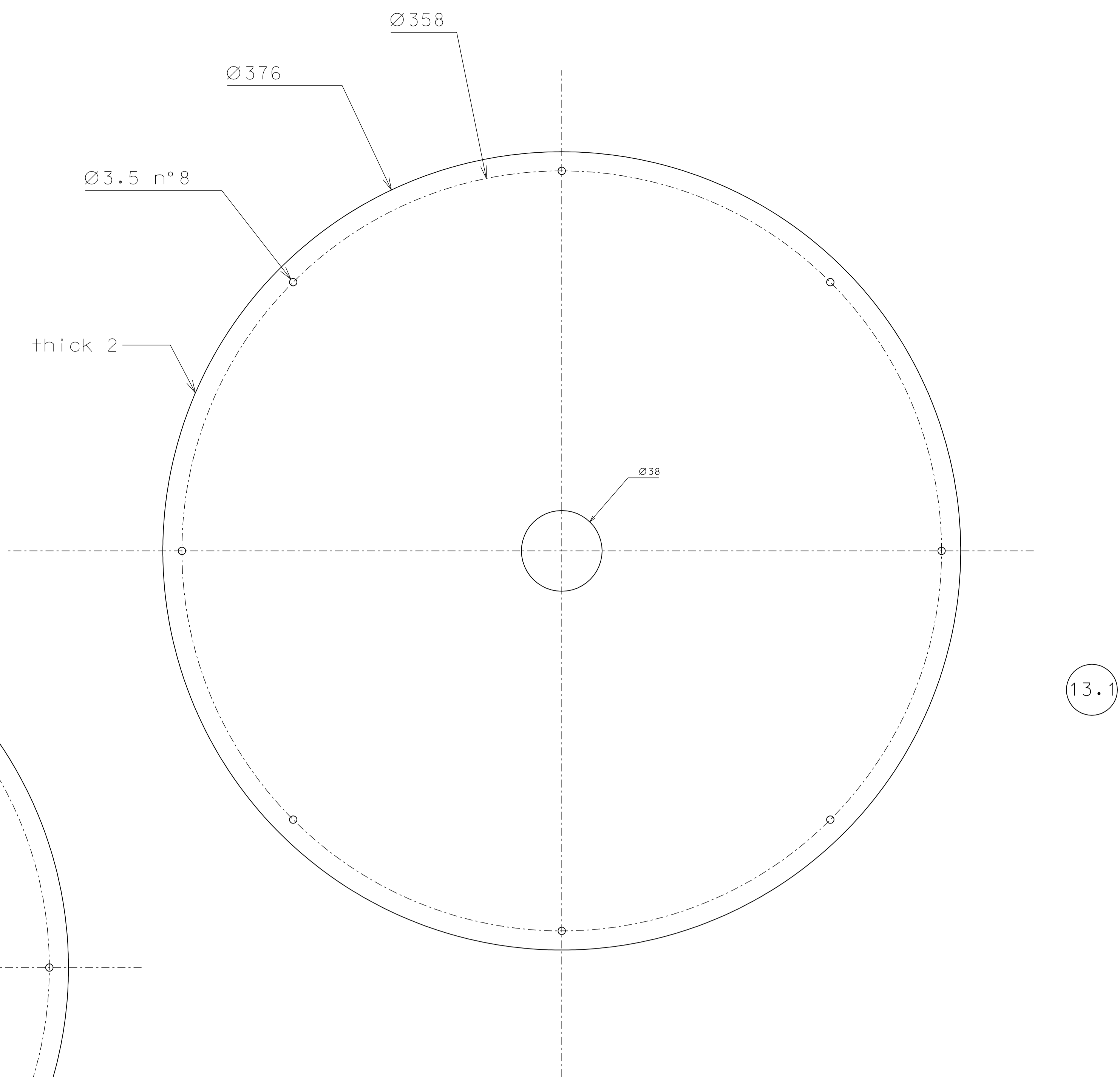
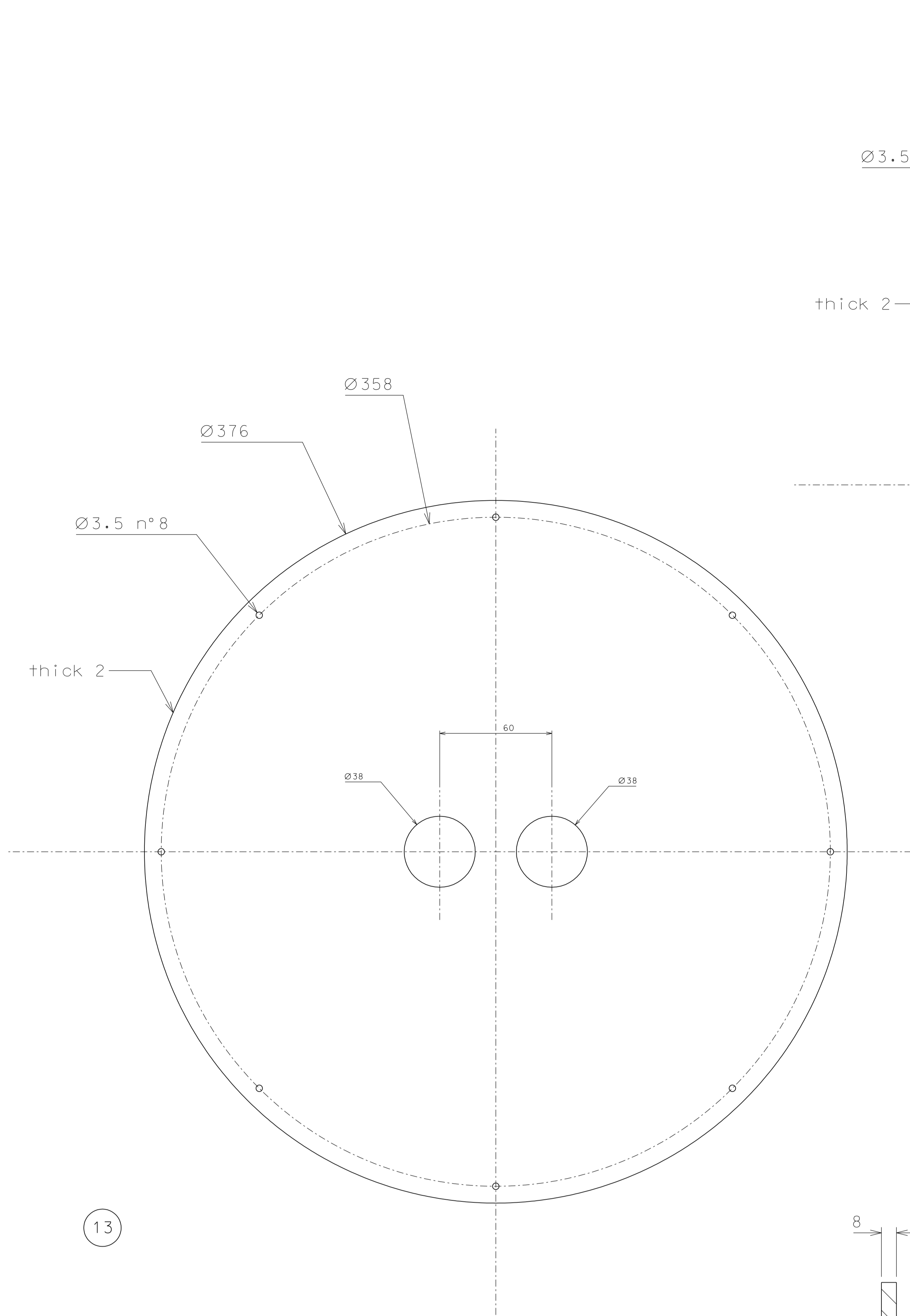
ref.	note	date	signature
modifications			



ref.	note	date	signature
modifications			

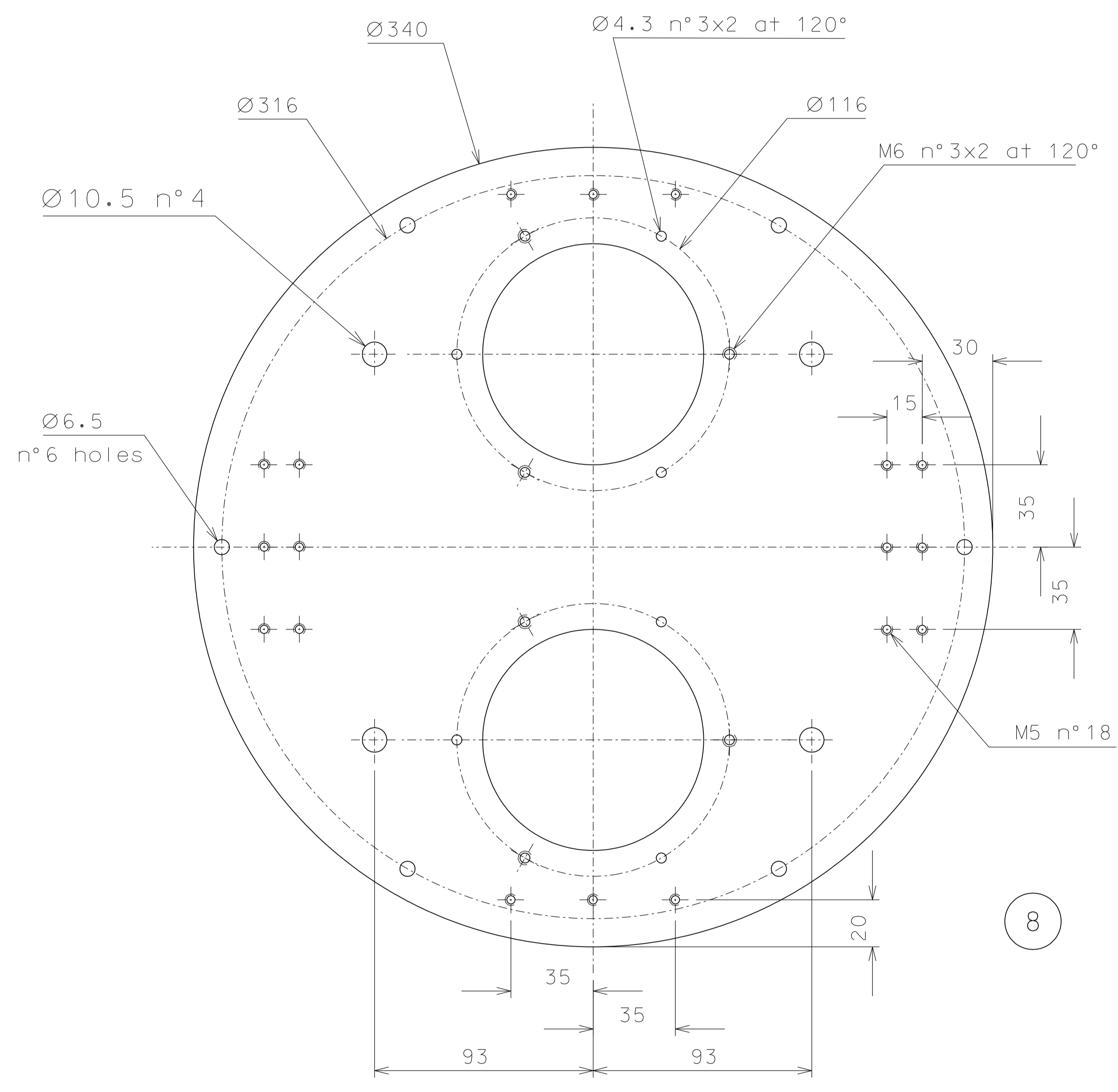
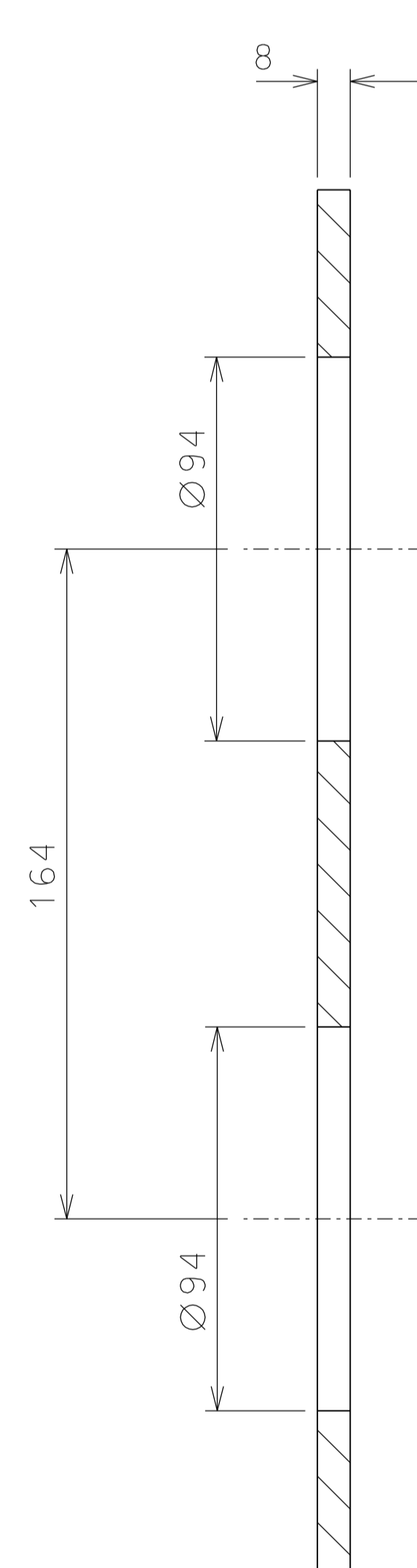
12	2	AISI 304 L	1:2
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
Linear Toli.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toli.	± 1'	± 30'	± 20'	± 10' referred to the shortest side				
LIGO PROJECT				designed for R. De Salvo				
draw. by PROMEC				n° draw. Laser. 015				
title LASER DETAIL				date 9-02-04		scale 1:2		
				from 024		issue A		
				replaces		draw. n° A 1		

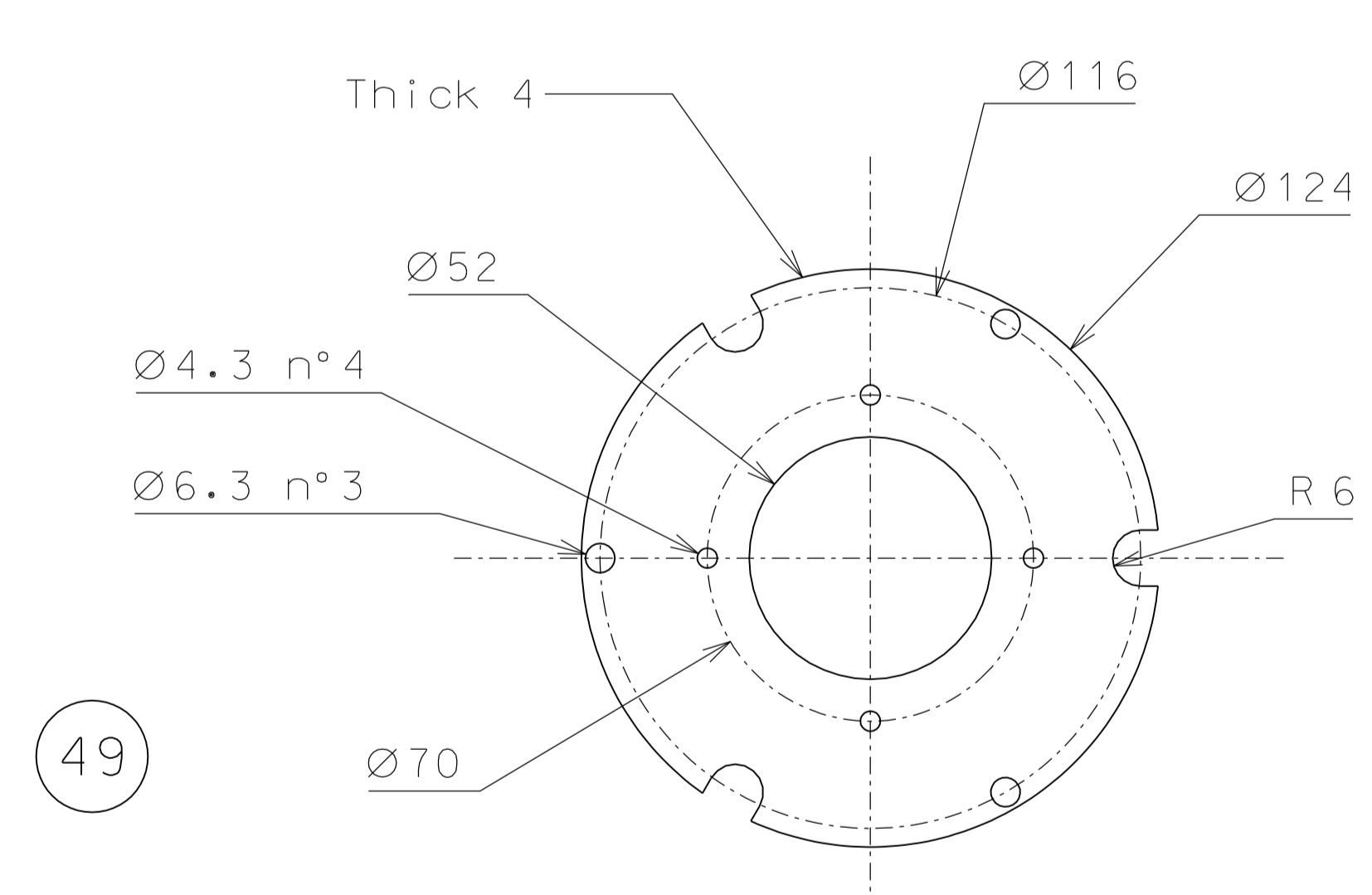


13

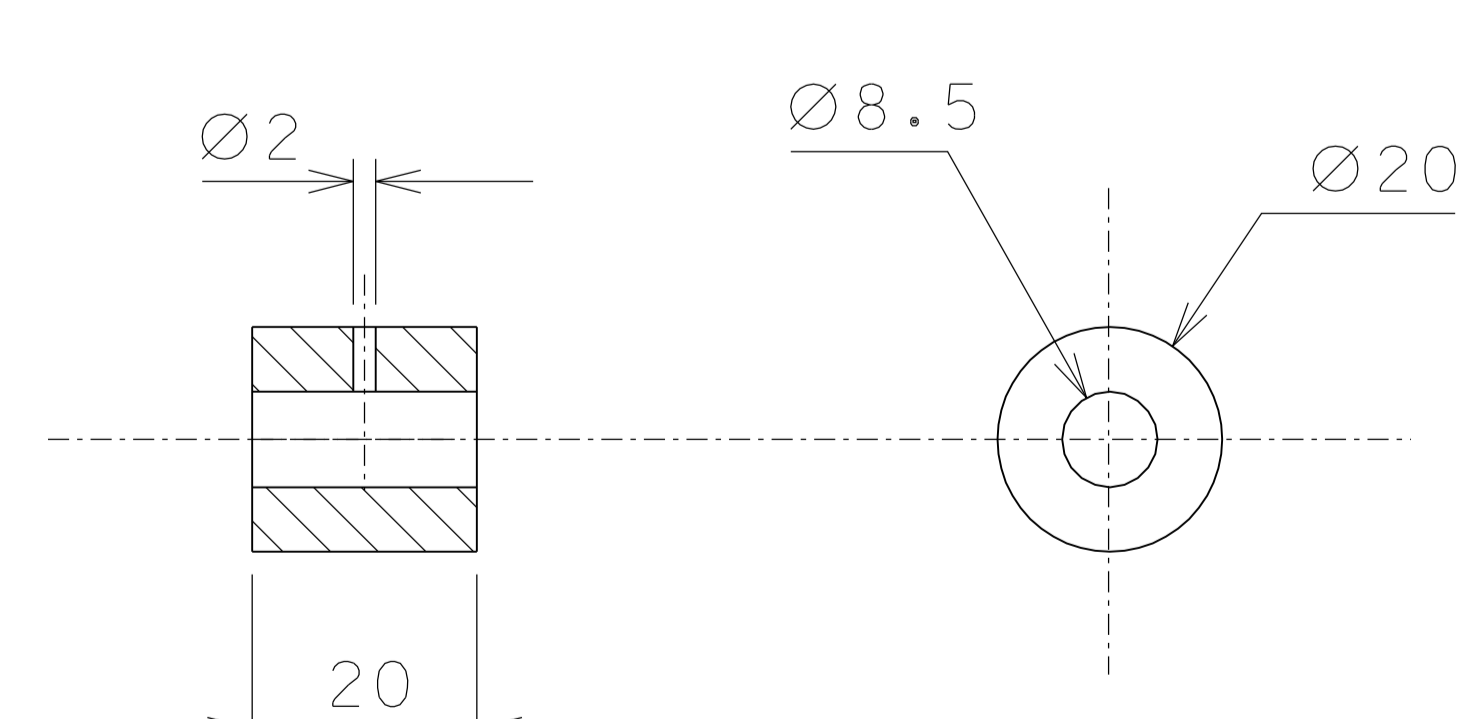
13.1



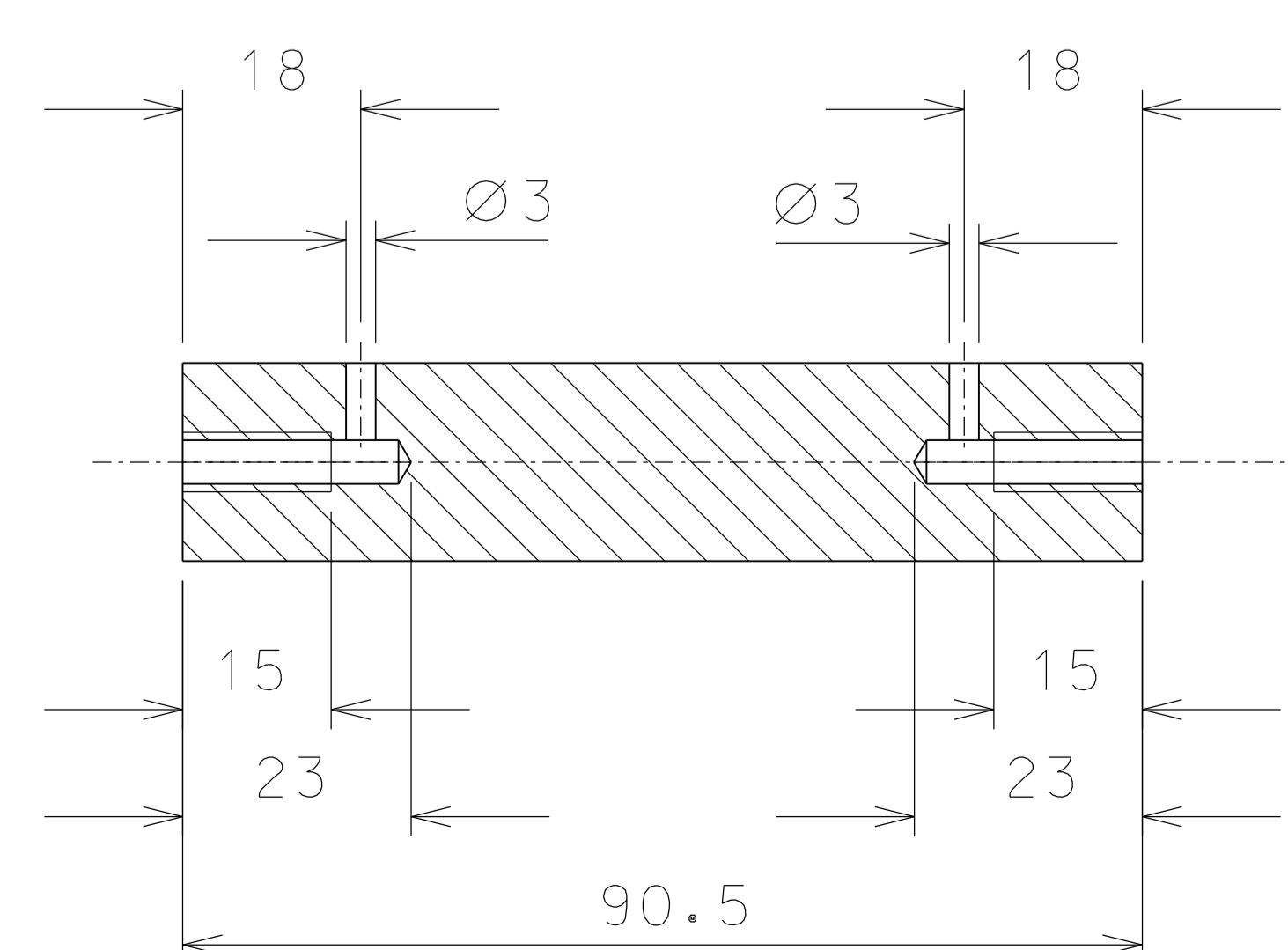
8



49



44

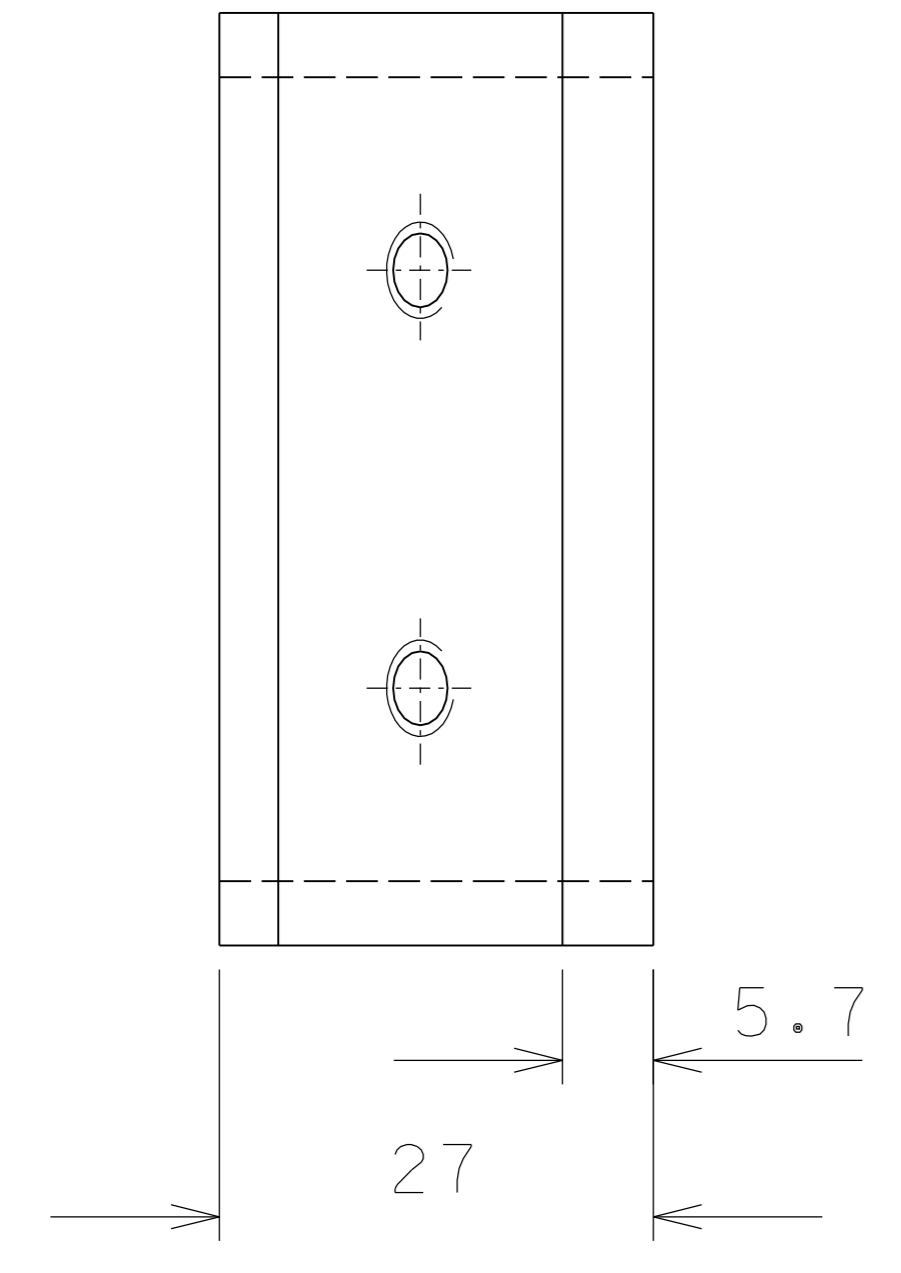
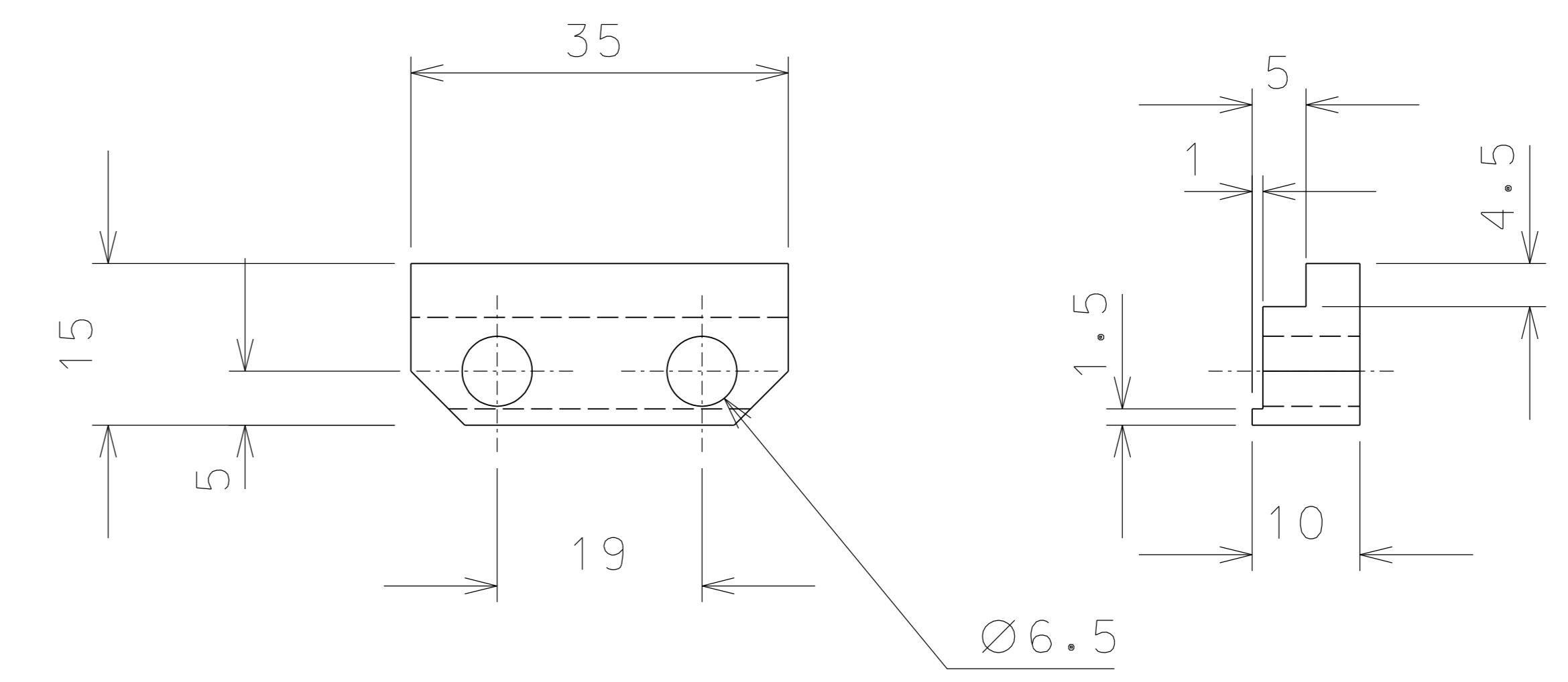
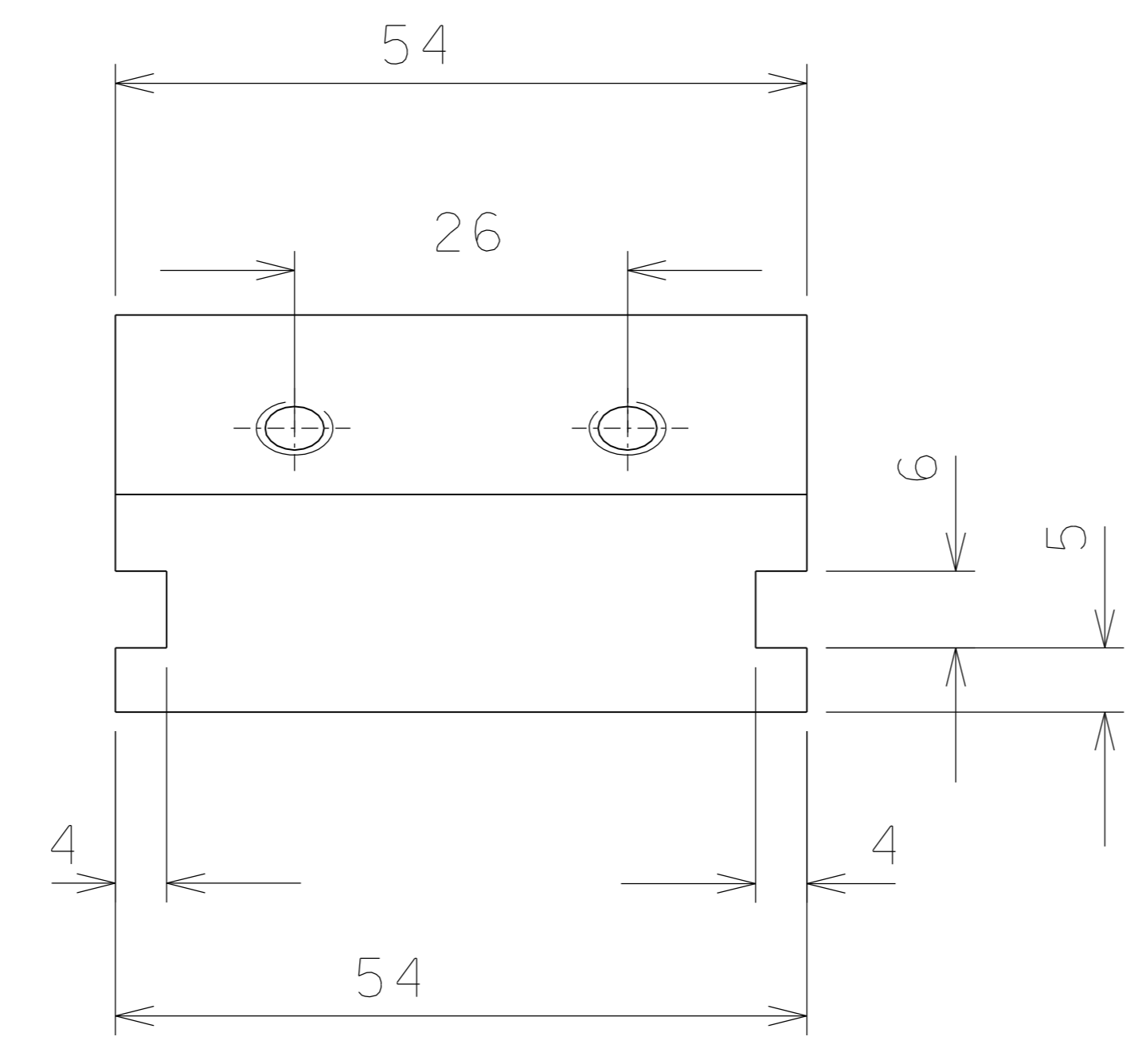
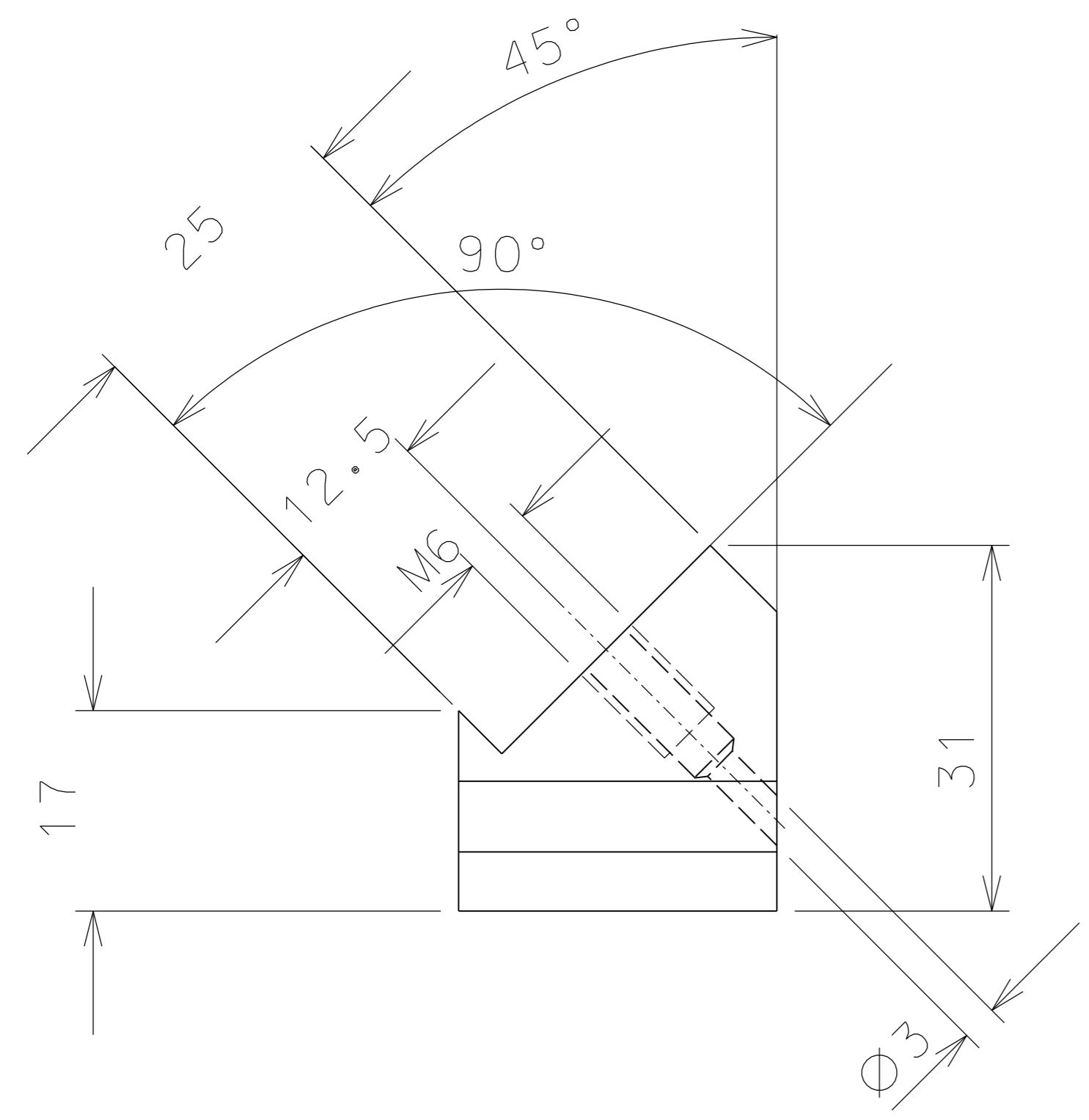


42

ref.	note	date	signature
modifications			

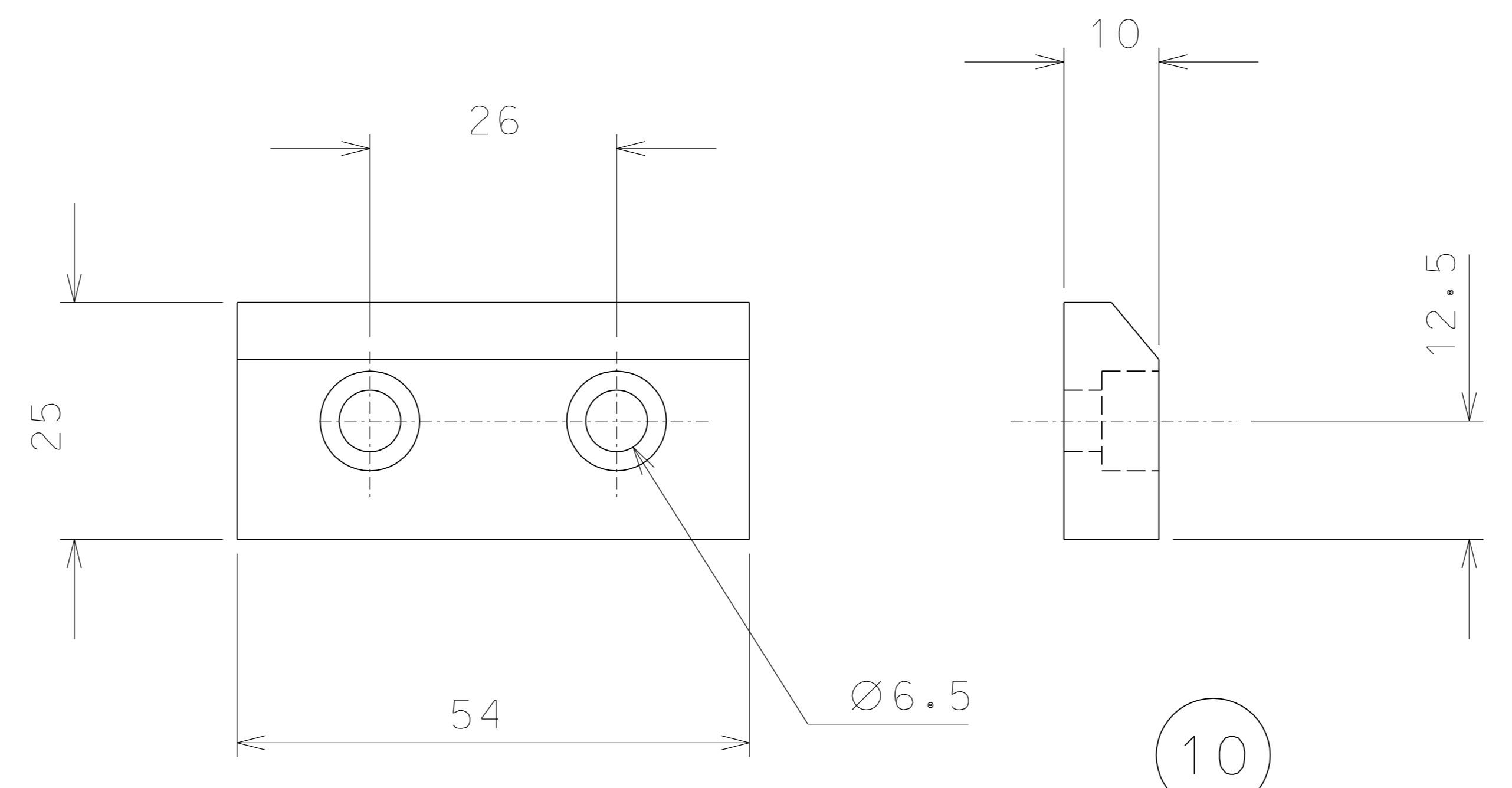
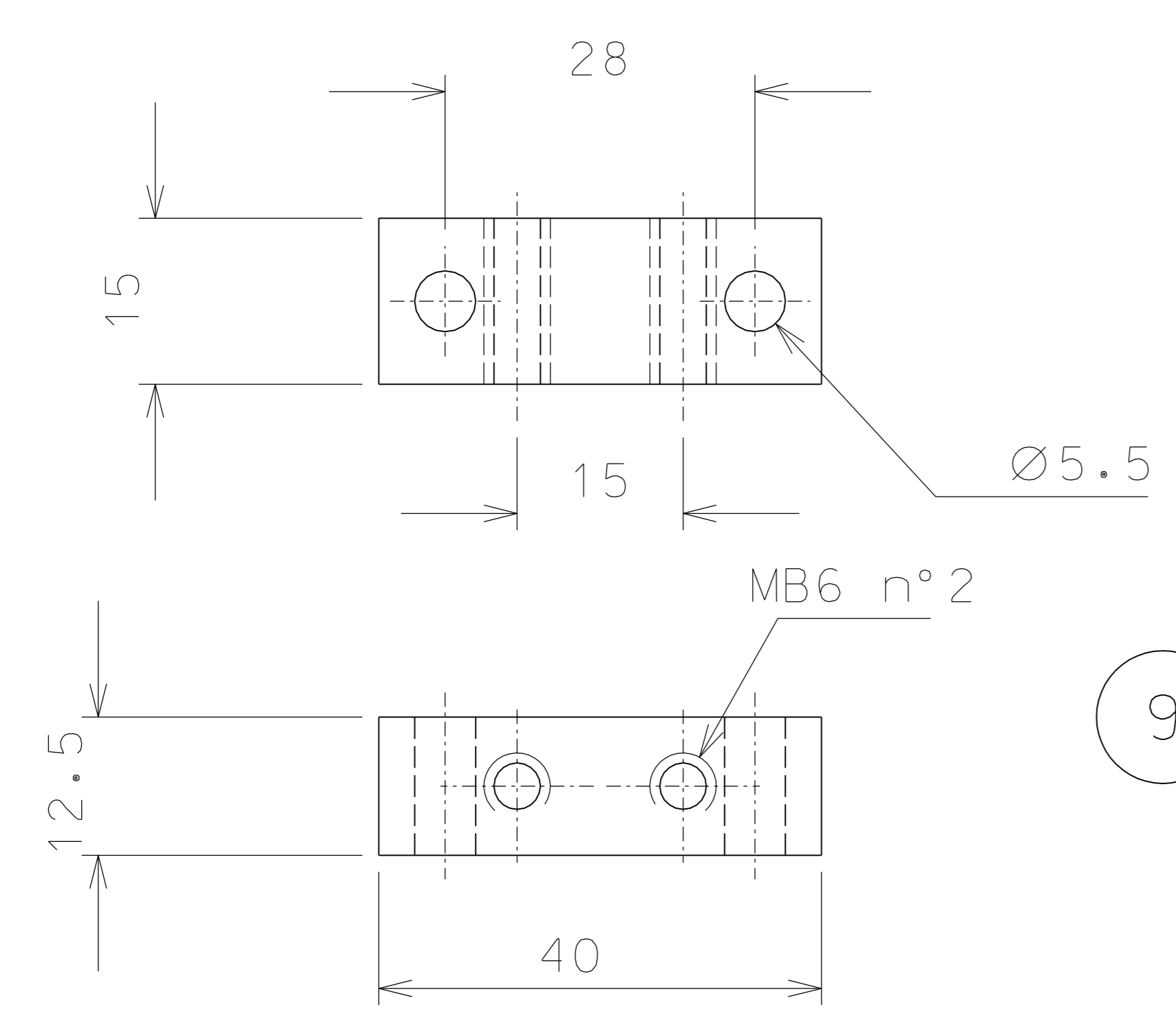
44	16	AISI304	1:1
42	12	AISI304	1:1
13.1	1	EN 6082	1:2
13	1	EN 6082	1:2
8	2	AISI 304 L	1:2
49	4	AISI304	1:2

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
Linear Toli.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toli.	± 1'	± 30'	± 20'	± 10' referred to the shortest side				
designed for R. De Salvo							draw. by PROMEC	
n° draw. Laser. 016							title	
LIGO PROJECT							LASER	
date 19-03-04							scale 1:2	
detail from 024							issue A	
replaces draw. n°							A 1	



11

11.1



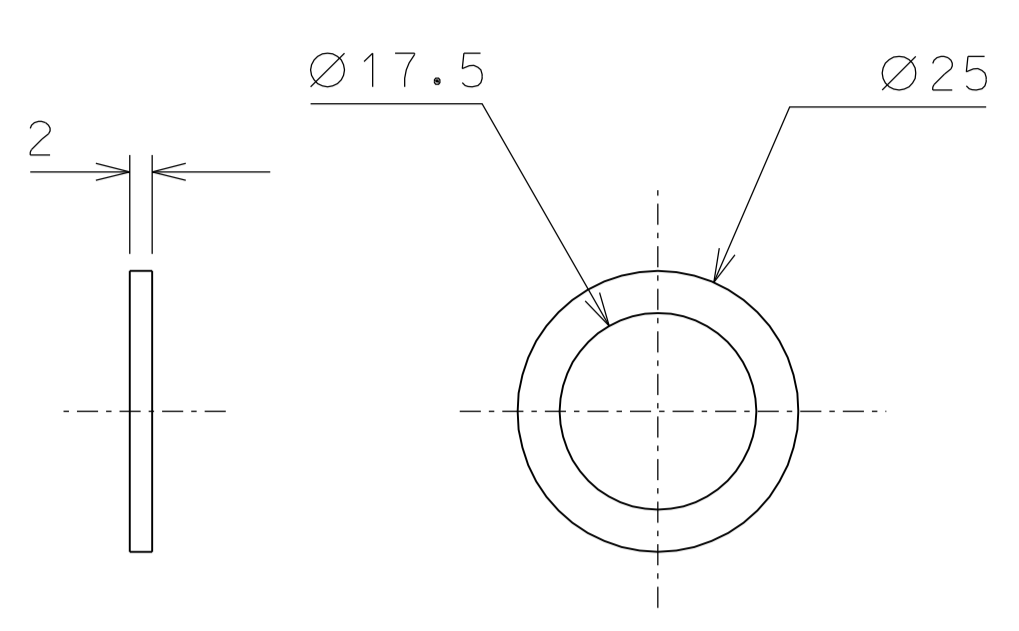
9

10

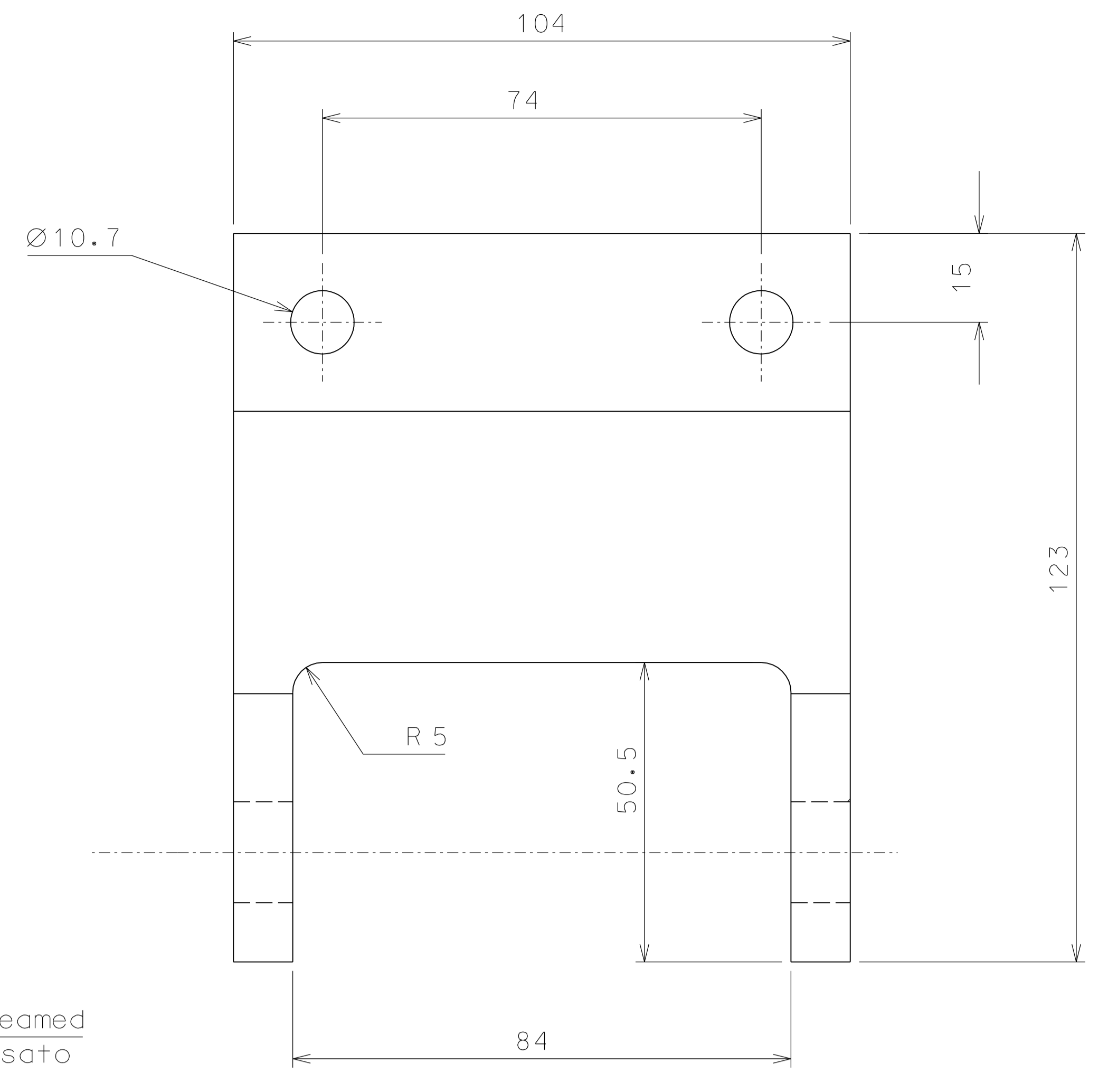
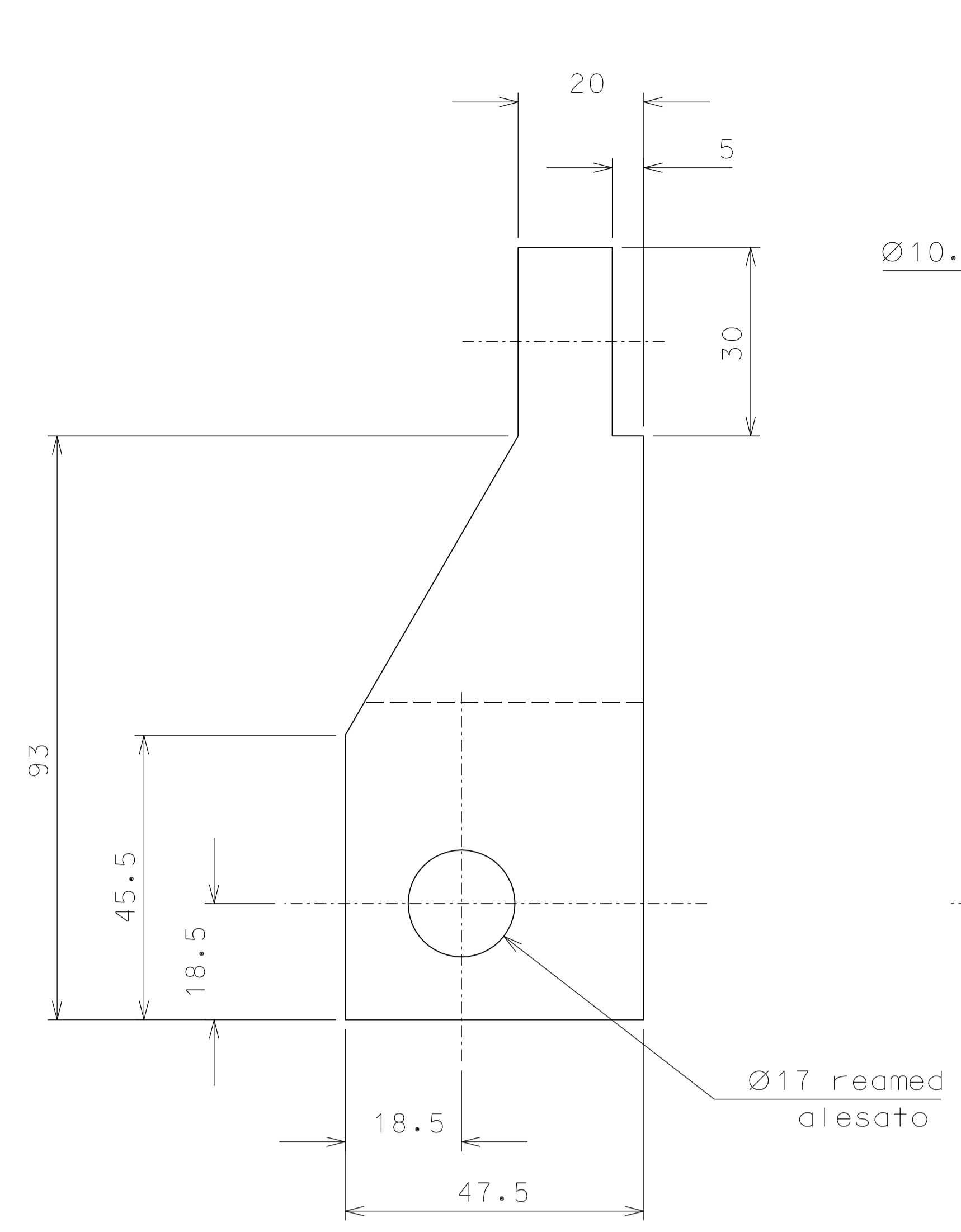
ref.	note	date	signature
modifications			

11.1	16	Nickel plated steel	1:1				
11	8	Nickel plated steel	1:1				
10	8	Nickel plated steel	1:1				
9	8	Nickel plated steel	1:1				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

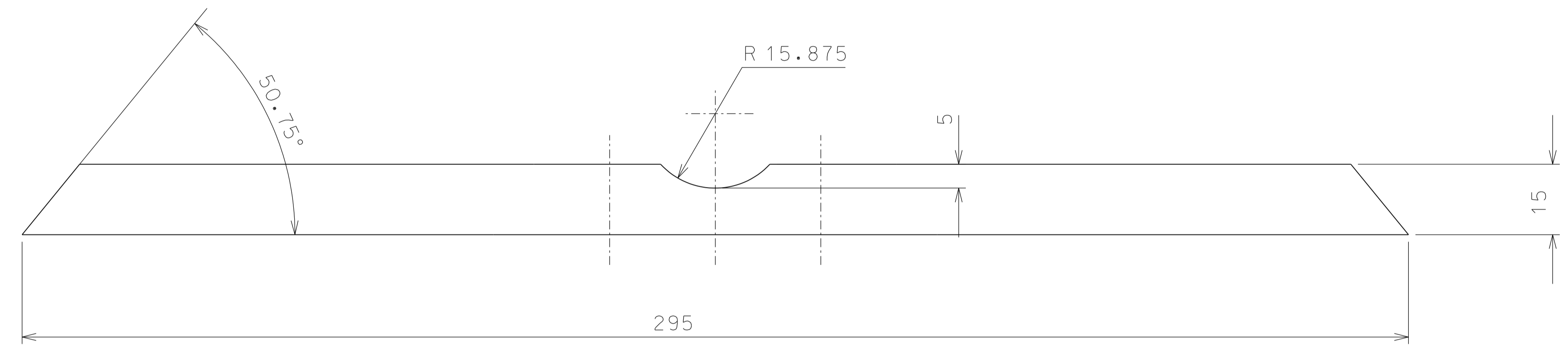
General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' referred to the shortest side				
	LIGO PROJECT			designed for R. De Salvo				
				draw. by PROMEC				
title	LASER			date 5-02-04				scale 1:1
	DETAILS			from 001				issue A
				replaces draw. n°				A 2



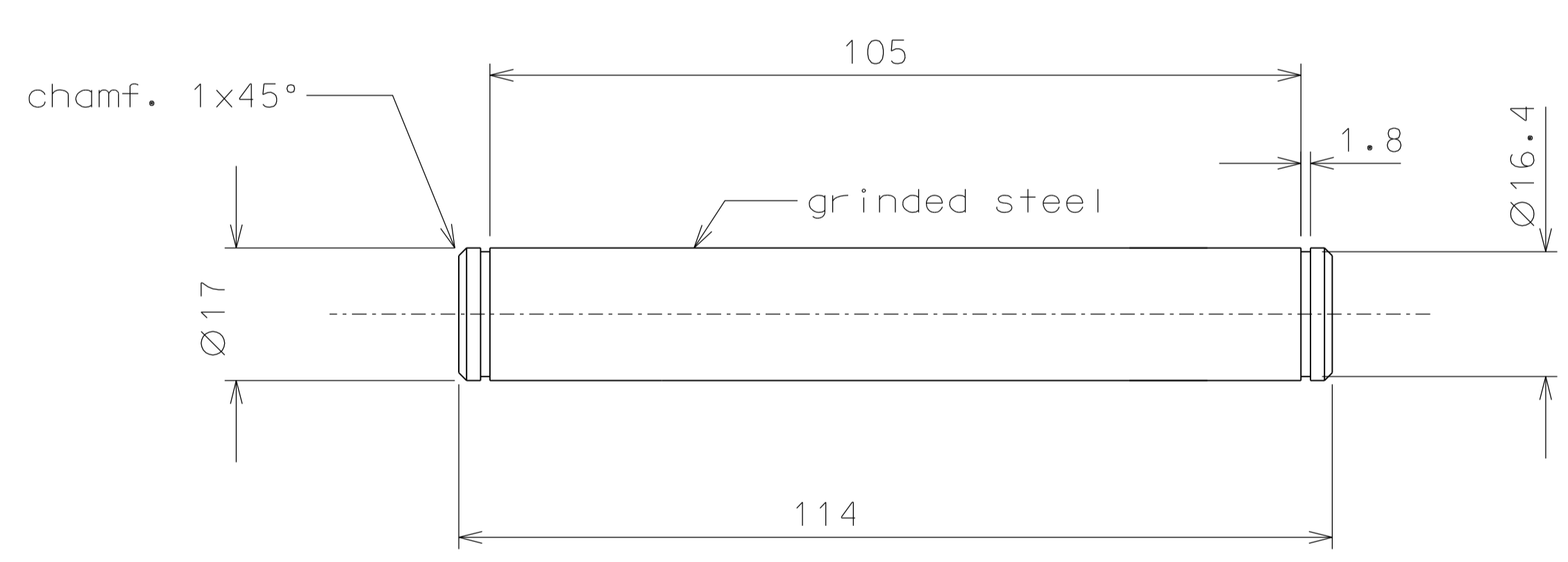
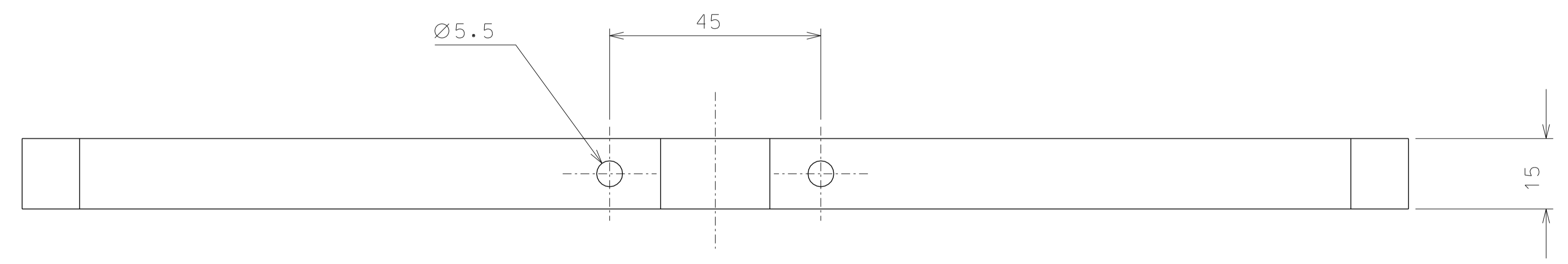
17.1



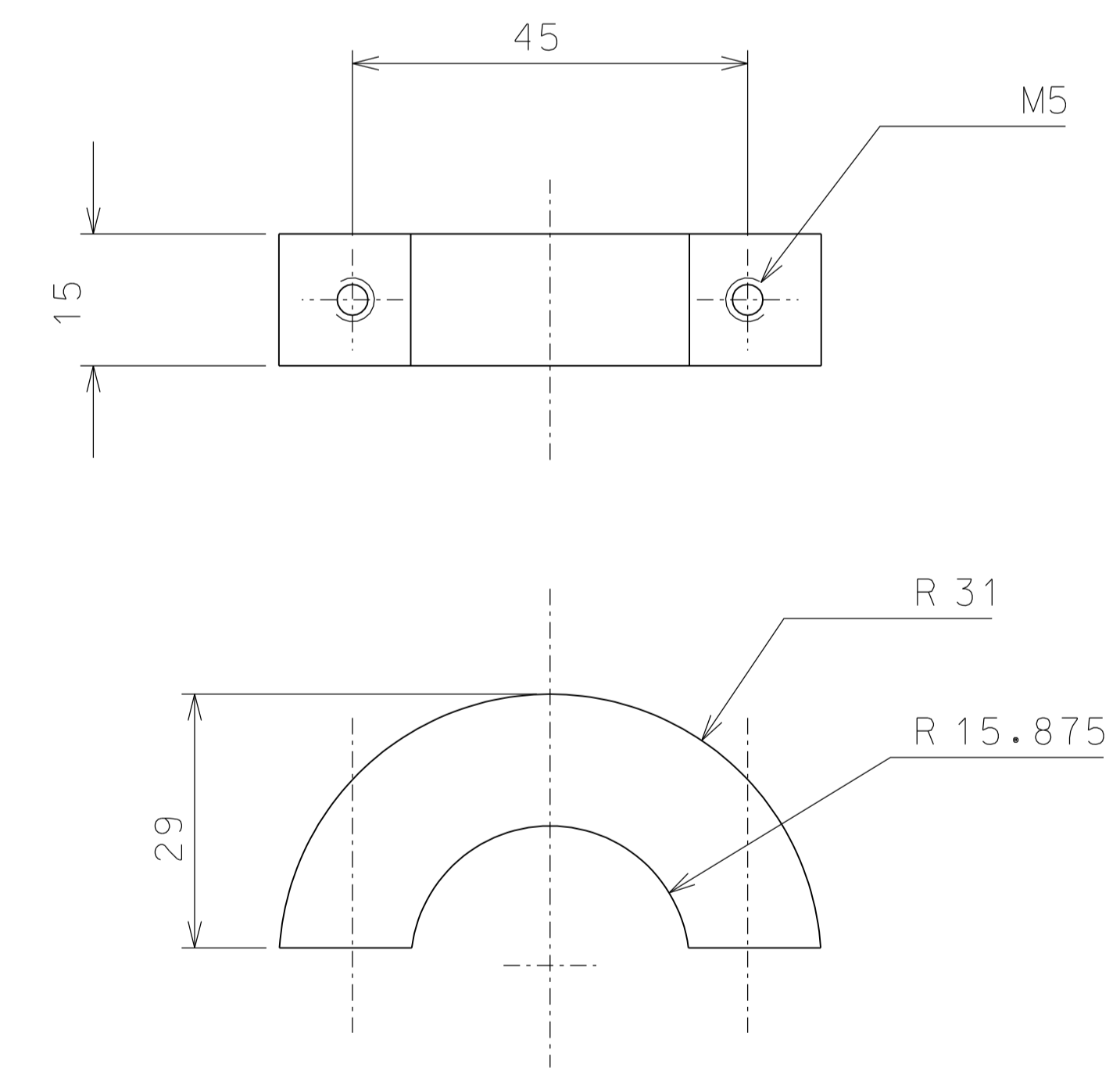
17



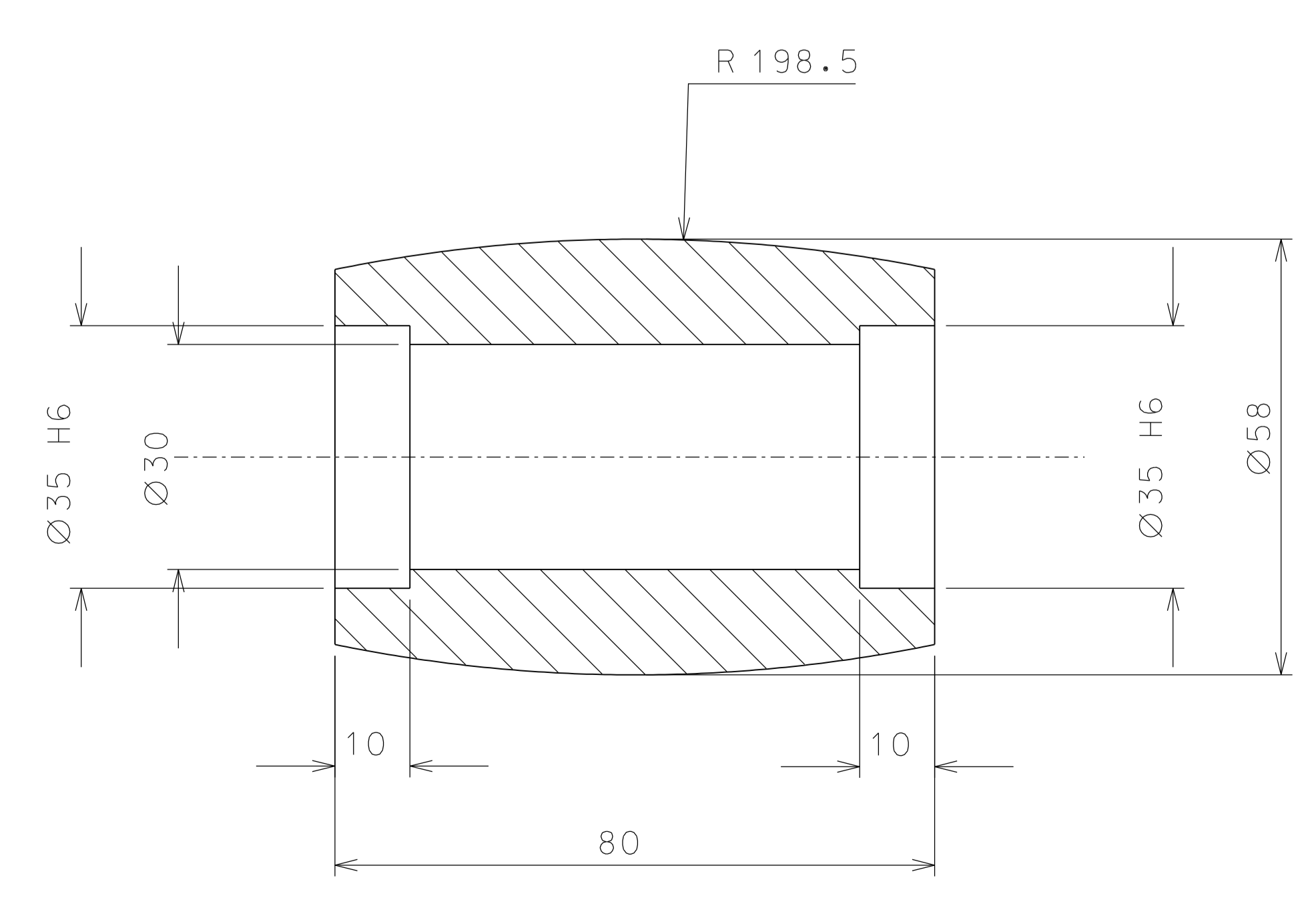
15



18



16



19

ref.	note	date	signature
modifications			

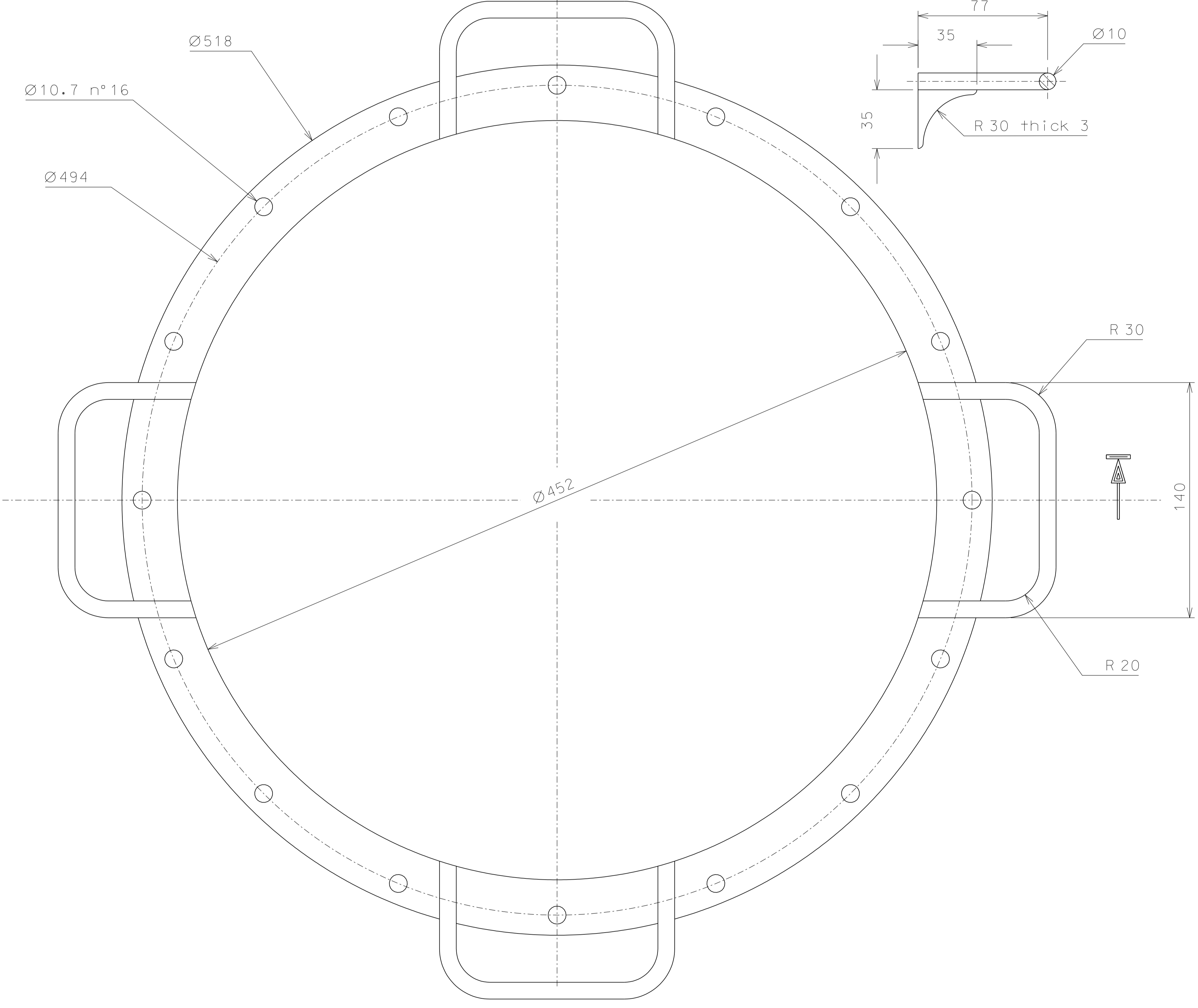
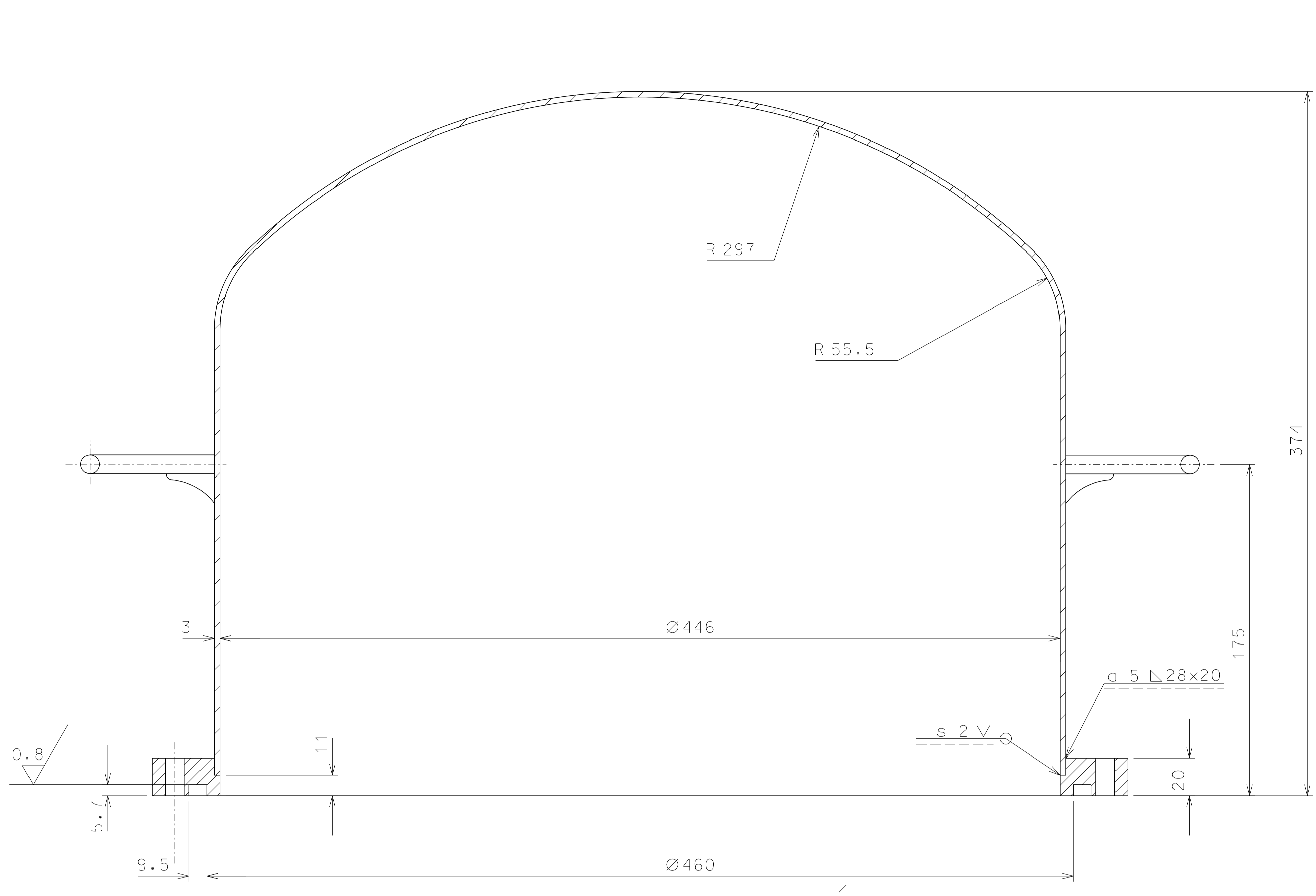
ref.	pieces	mat. and treatments	scale
18	2	steel	1:1
17.1	4	EN 6082	1:1
17	2	EN 6082	1:1
16	2	EN 6082	1:1
15	2	EN 6082	1:1
19	2	Nylon	1:1

General machining tolerances UNI 5307-63						
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-4000
Linear Toli.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
angular Toli.	± 1'	± 30'	± 20'	± 10' referred to the shortest side		

designed for R. De Salvo
 draw. by PROMEC
 n° draw. Laser.019

LIGO PROJECT

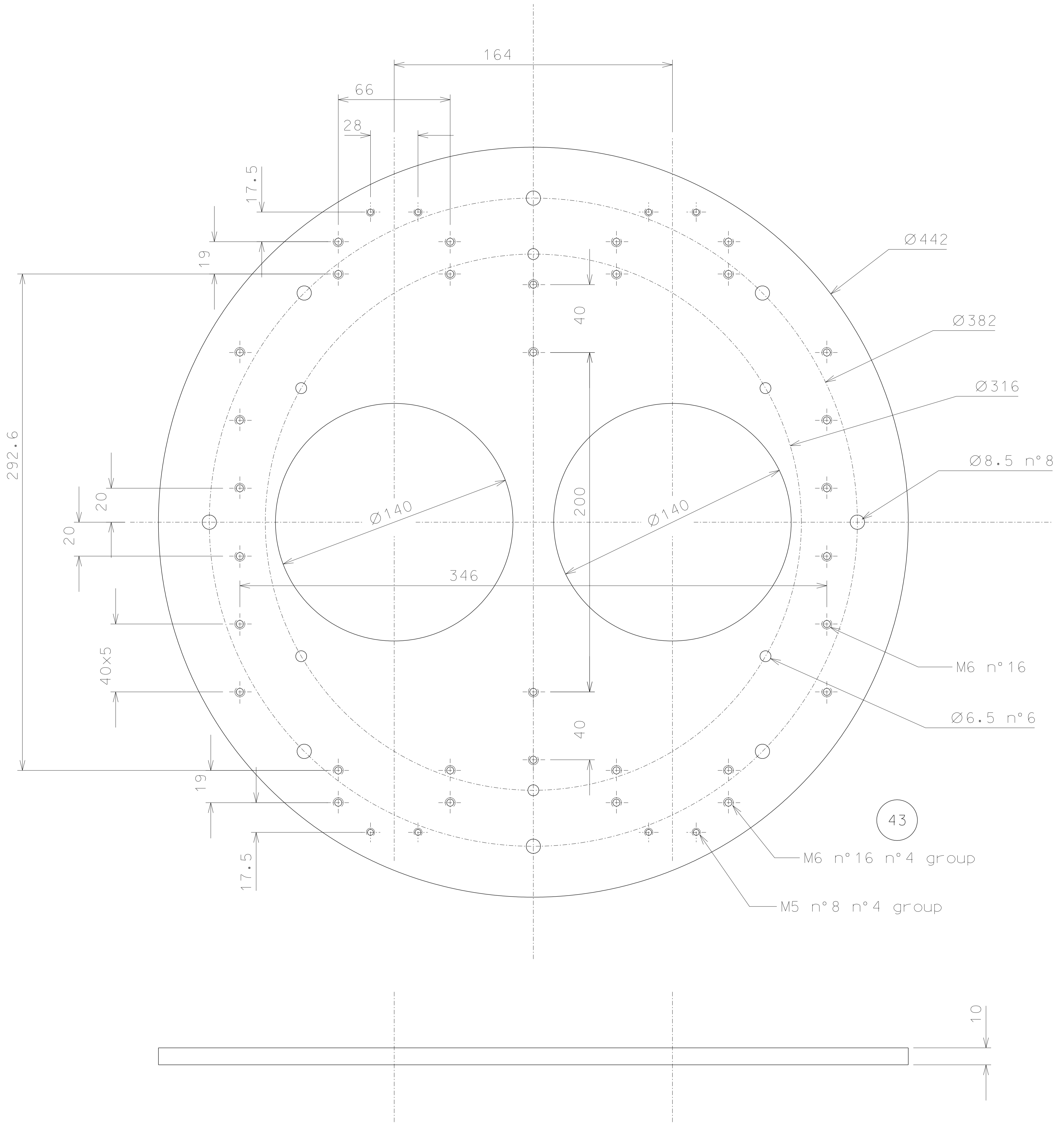
title LASER DETAILS scale 1:1
 detail from 002 issue A
 replaces draw. n° A 1



ref.	note	date	signature
modifications			

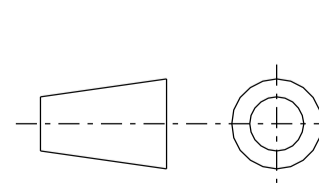
6	2	AISI 304 L	1:2
ref.	pieces	mat. and treatments	scale

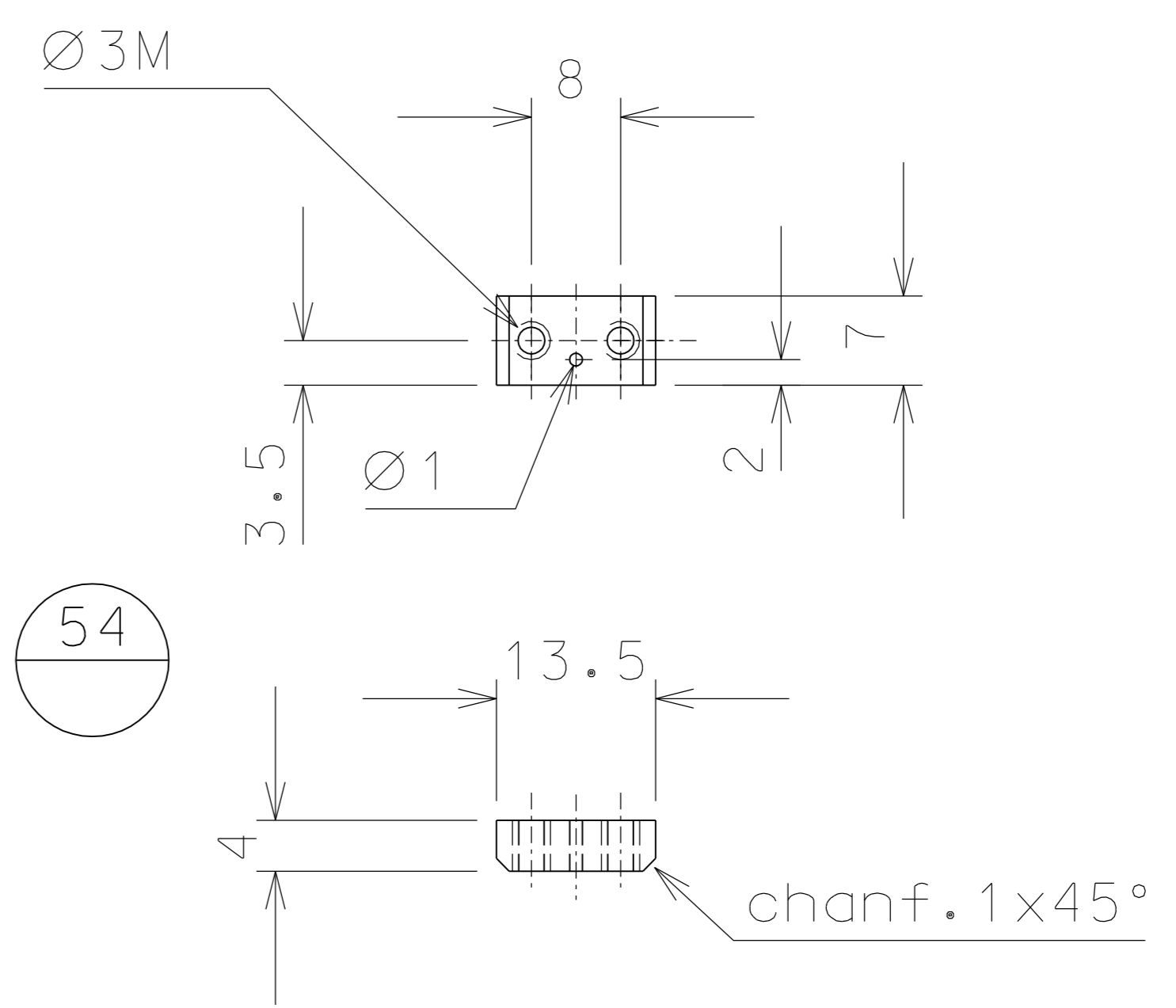
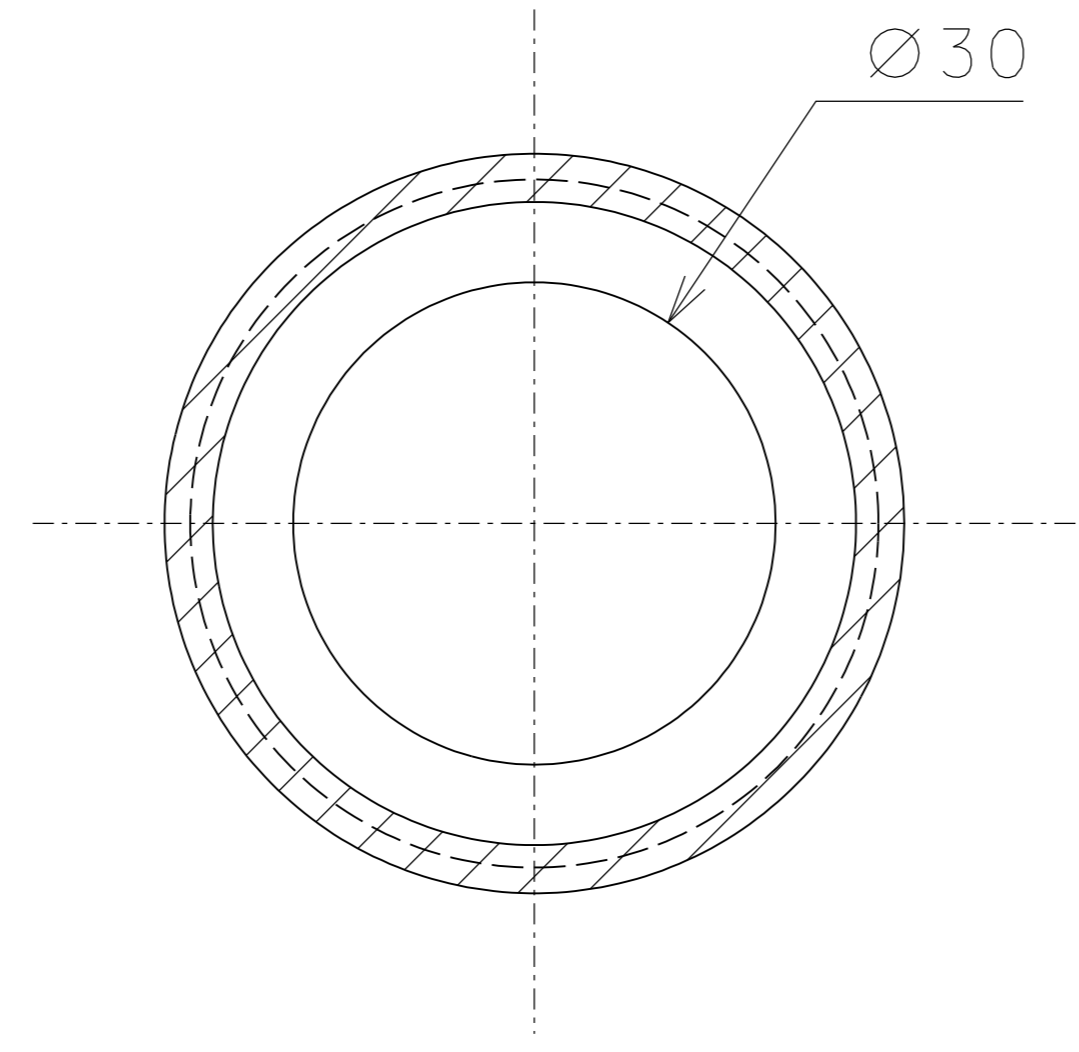
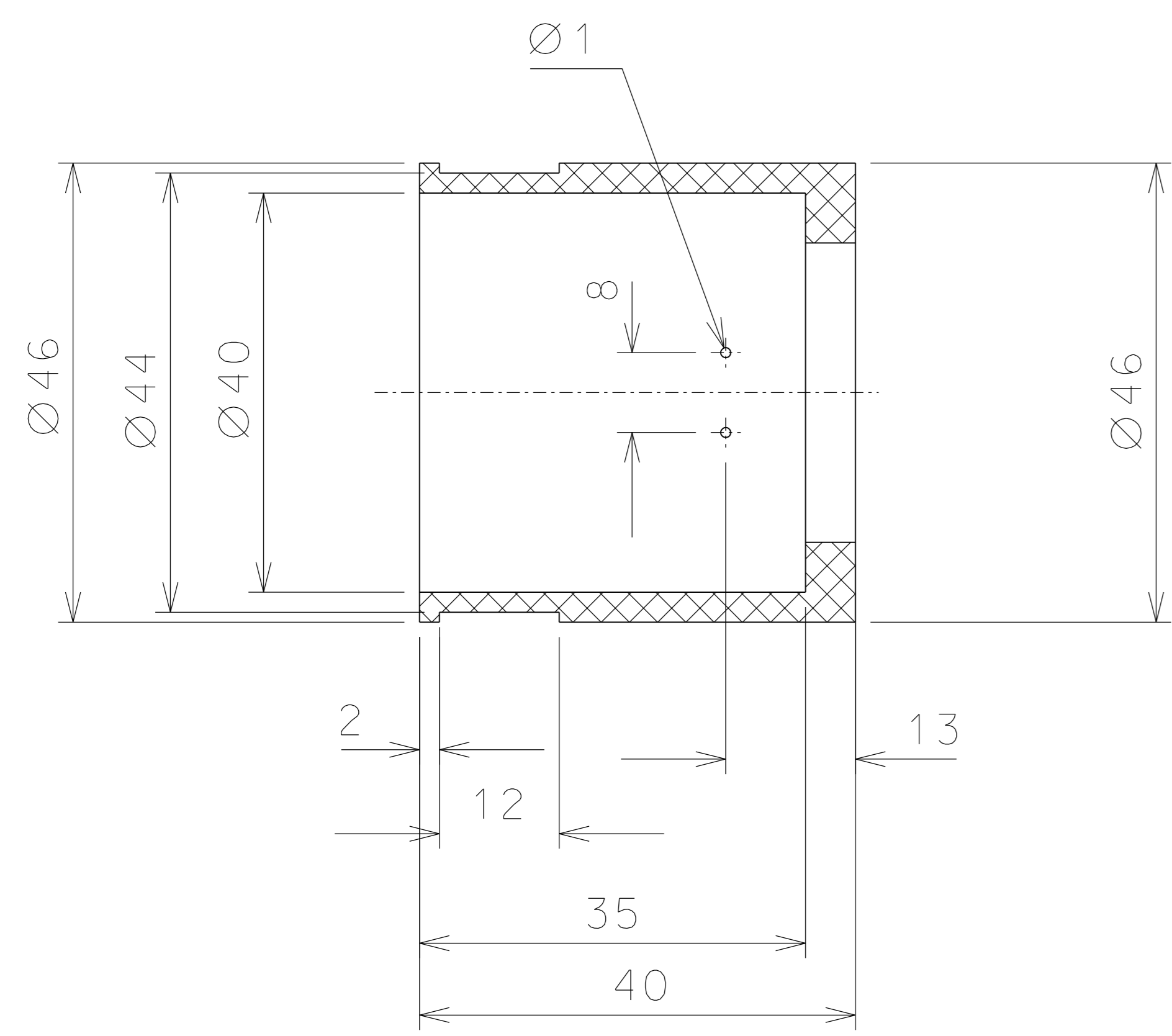
General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
Linear Toli.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toli.	± 1'	± 30'	± 20'	± 10' referred to the shortest side				
		designed for R. De Salvo						
		draw. by PROMEC						
		n° draw. Laser-020						
		title		date 18-03-04		scale 1:2		
		LASER		detail		from 024		
		DETAIL		issue		A		
		replaces		draw. n°		A 1		



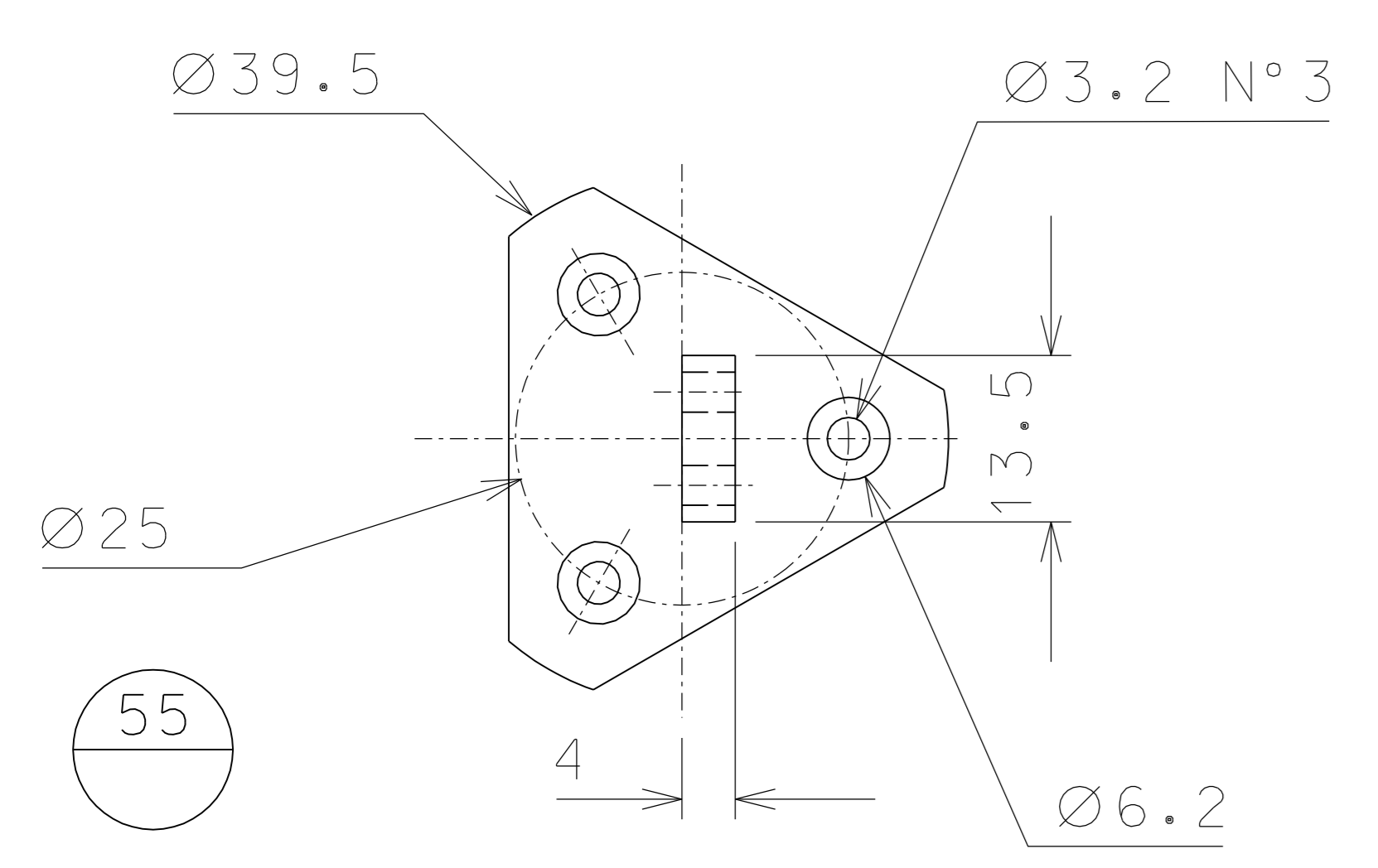
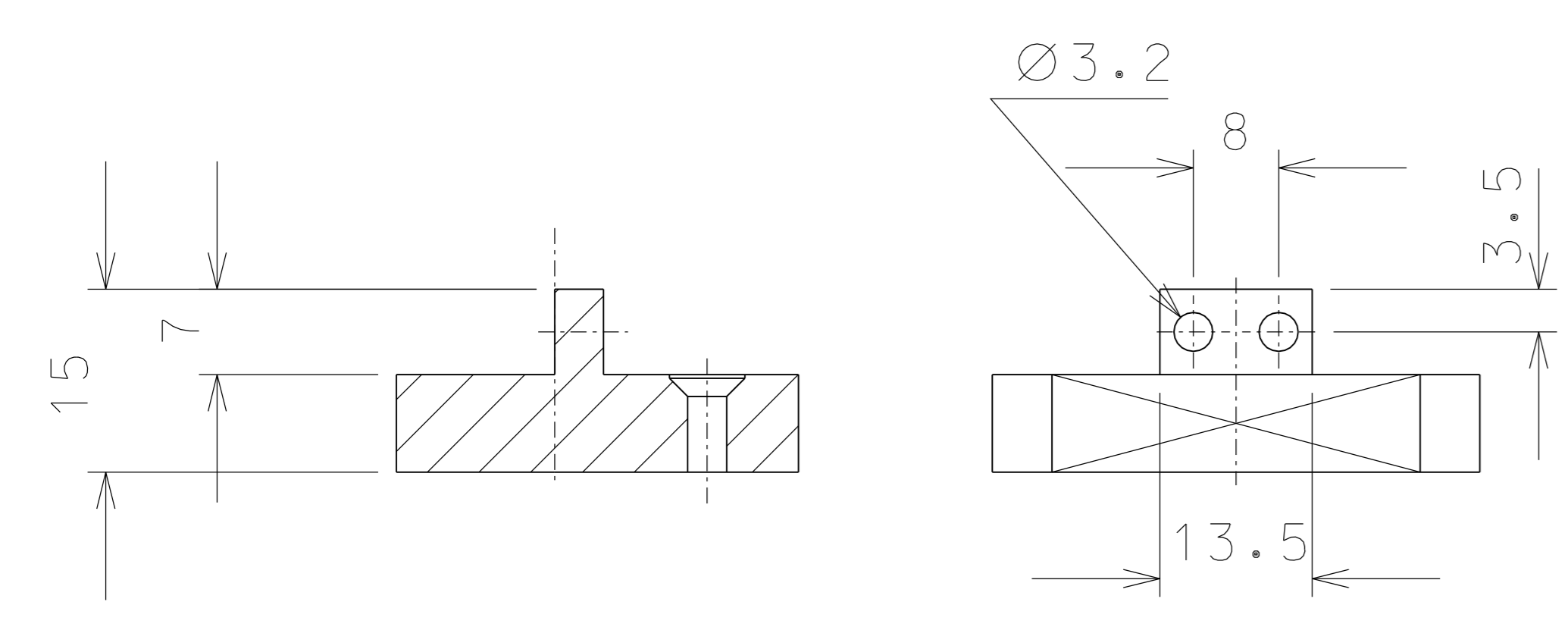
ref.		note	date	signature
modifications				

43	2	AISI 304	1:2				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

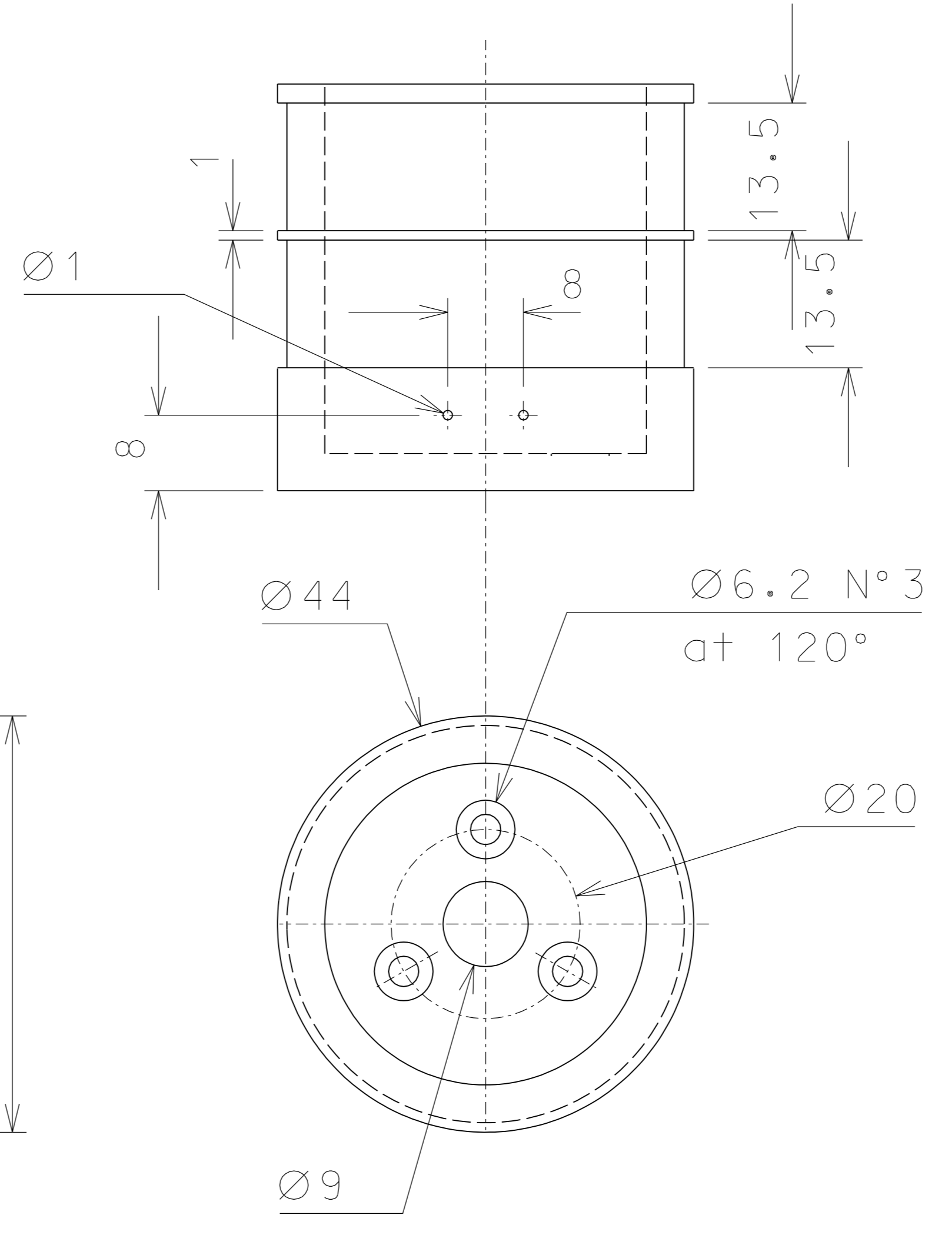
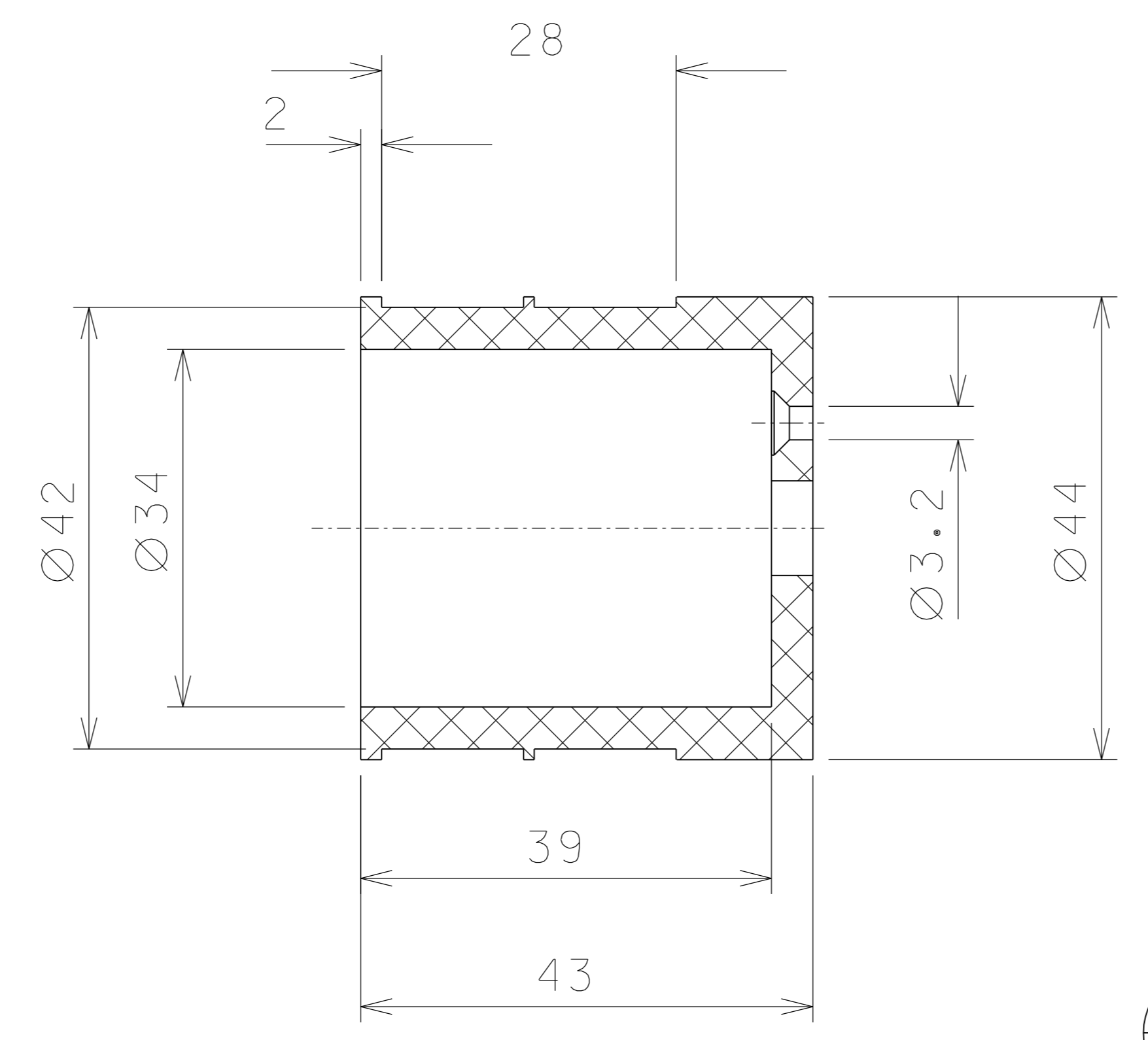
General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' referred to the shortest side				
 LIGO PROJECT				designed for R. De Salvo draw. by PROMEC n° draw. Laser.021				
title LASER DETAILS				date 19-03-04 detail from 024 replaces draw. n°		scale 1:2 issue A		A 2



52 use tool n°86, 86.1



55



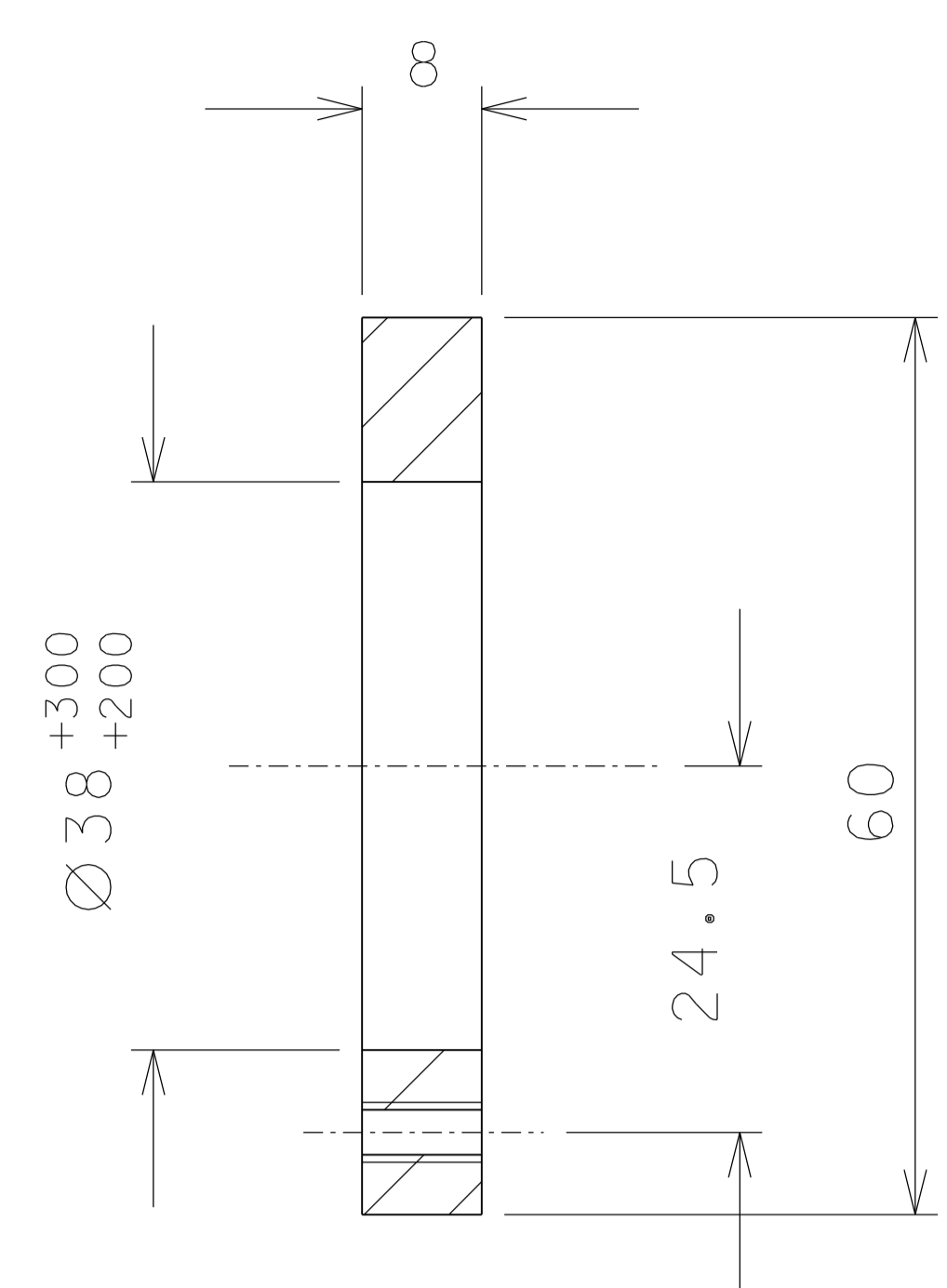
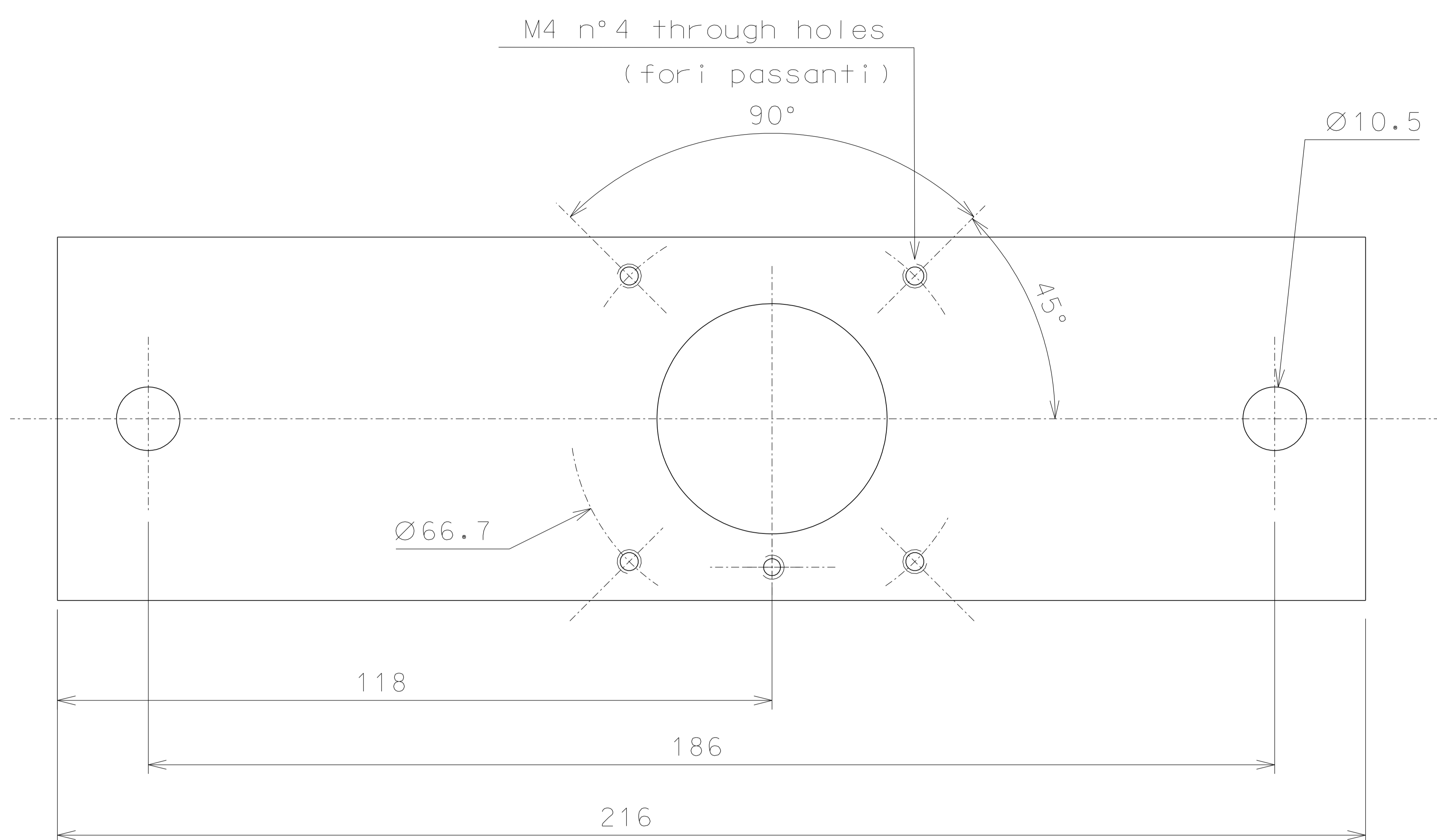
58 use tool n°87

ref.	note	date	signature
modifications			

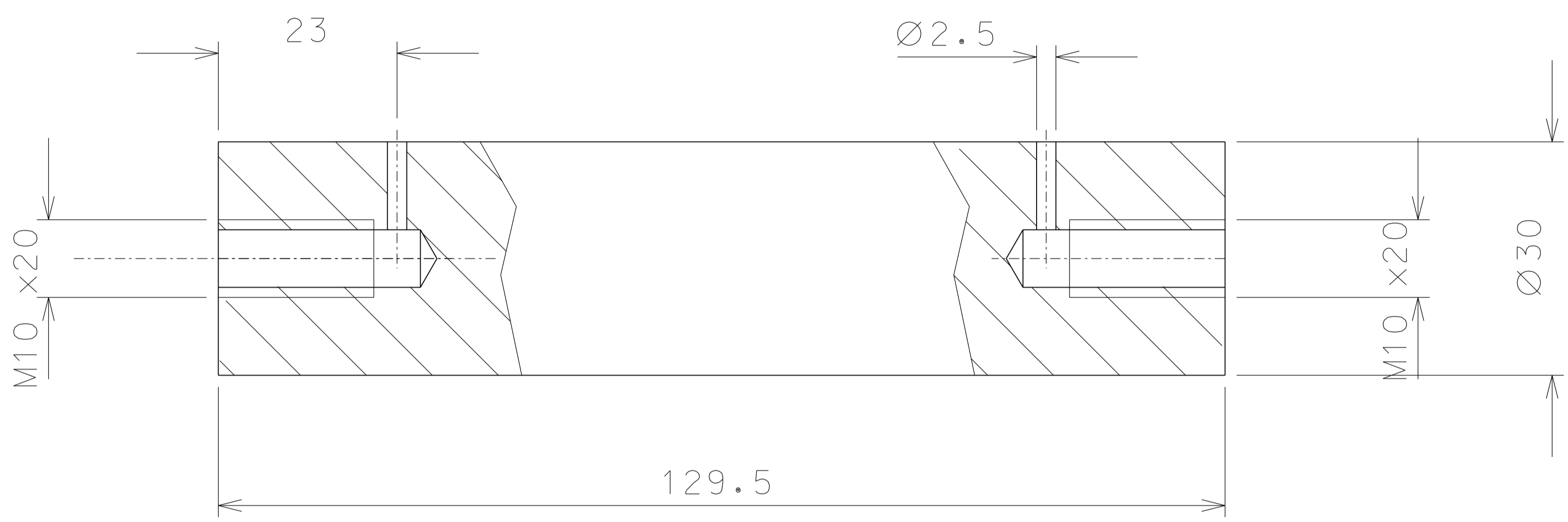
ref.	pieces	mat. and treatments	scale
58	4	peek 1000	1:1
55	4	AISI 304	1:1
54	4	AISI 304	1:1
52	4	peek 1000	1:1

General machining tolerances UNI 5307-63							
Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1'	± 30'	± 20'	± 10' referred to the shortest side			

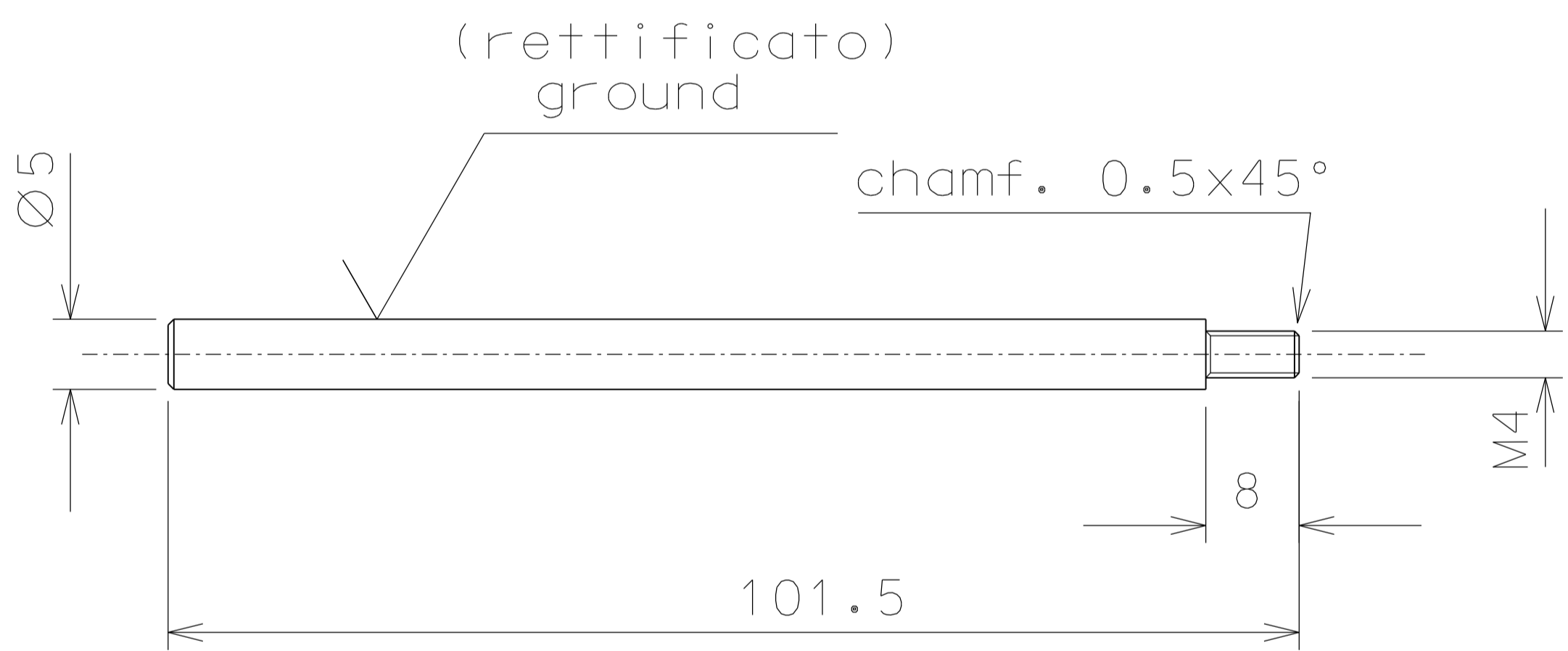
	LIGO PROJECT	designed for R. De Salvo	
		draw. by PROMEC	
		n°draw. Laser.022	
title	LASER DETAILS		date 19-03-04
		detail from 024	scale issue A
	replaces draw. n°	A 2	



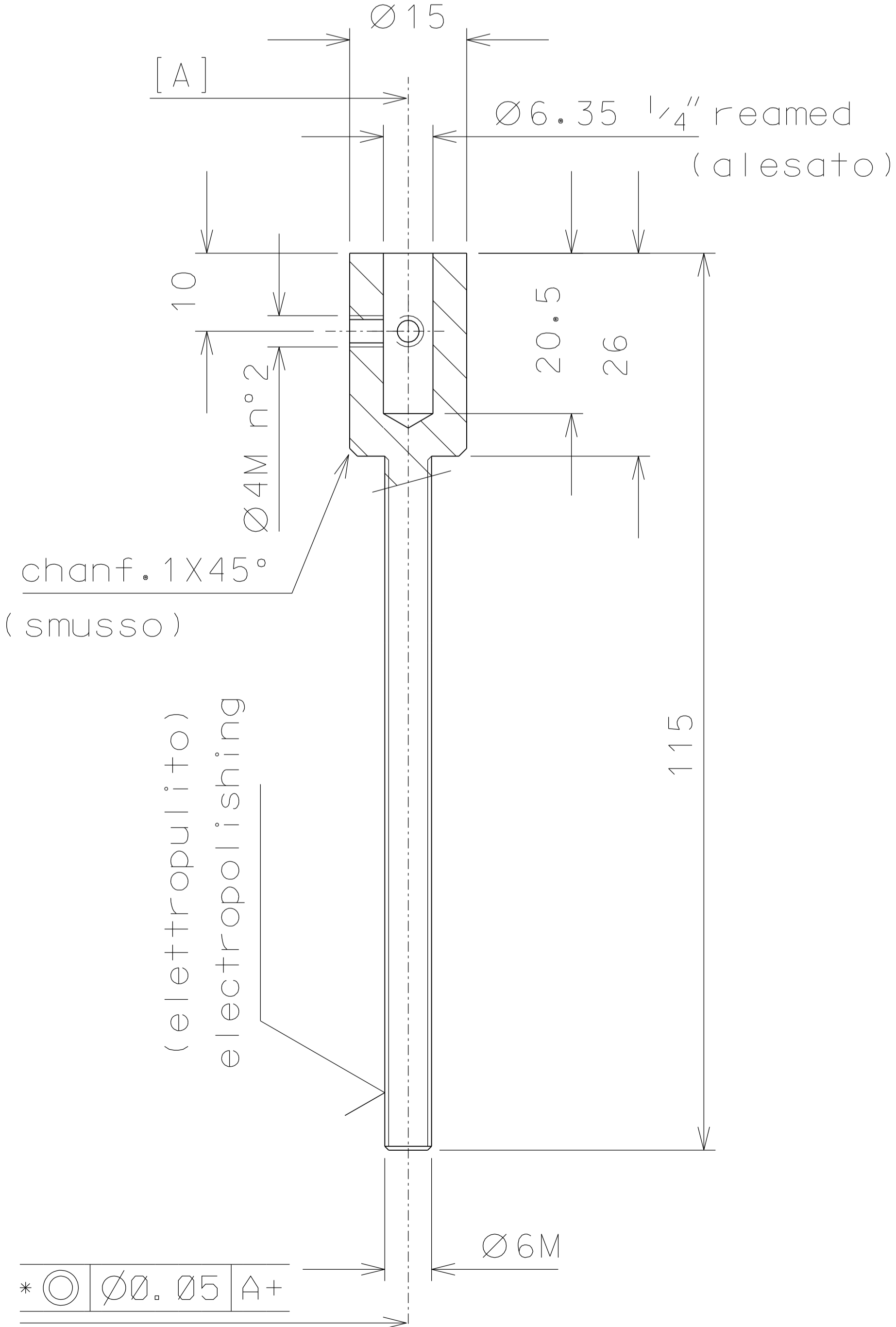
38



35



41



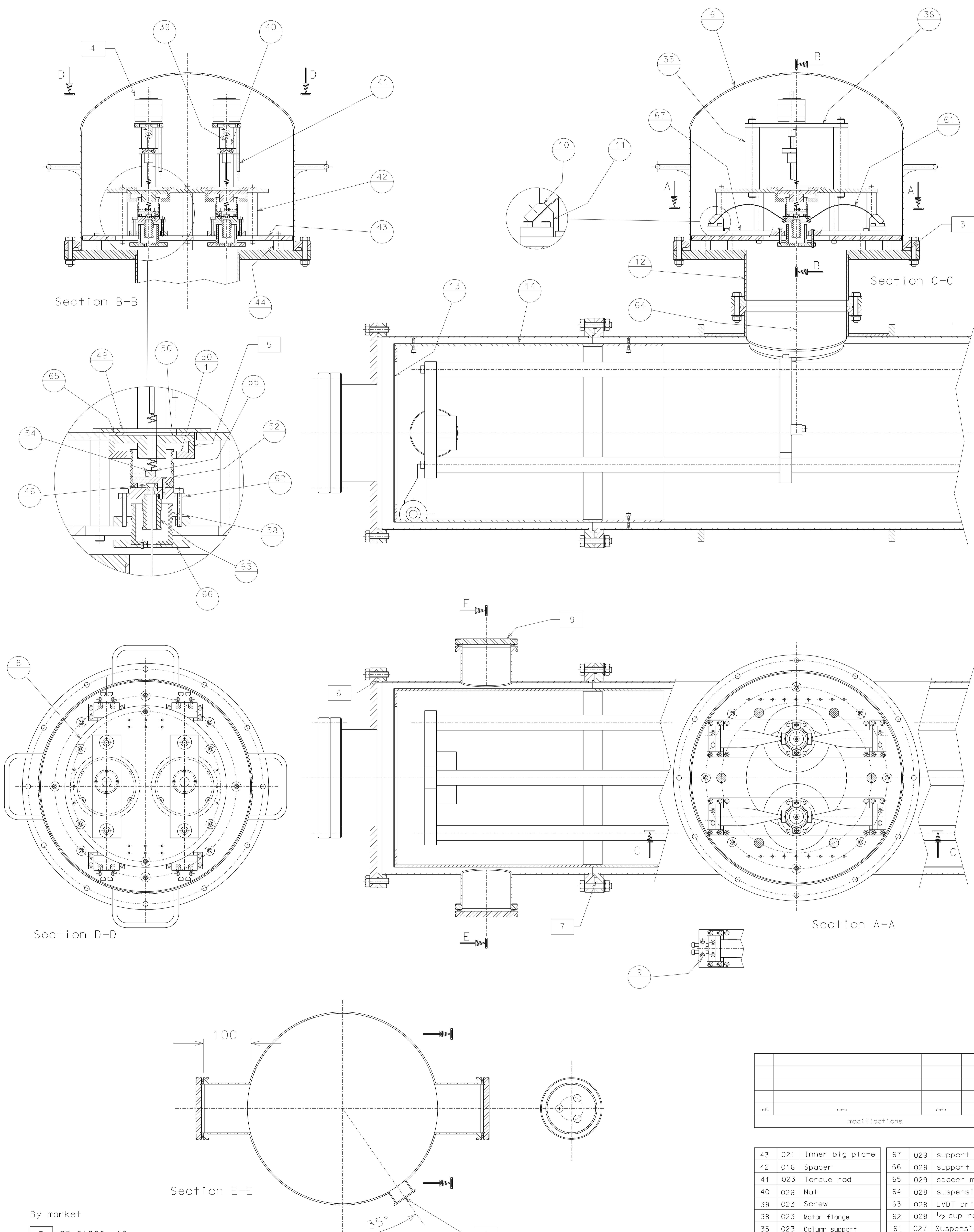
39

ref.	note	date	signature	
modifications				

41	4	AISI 304	1:1				
39	4	"	1:1				
38	4	AISI 304 L	1:1				
35	8	AISI 304	1:1				
ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1	± 30'	± 20'	± 10' referred to the shortest side			

title	LIGO PROJECT		designed for R. De Salvo	
			draw. by PROMEC	
LASER DETAILS		n° draw. Laser. 023		
		date 19-03-04	scale 1:1	
replaces draw. n°		detail from 024	issue A	
		A 2		

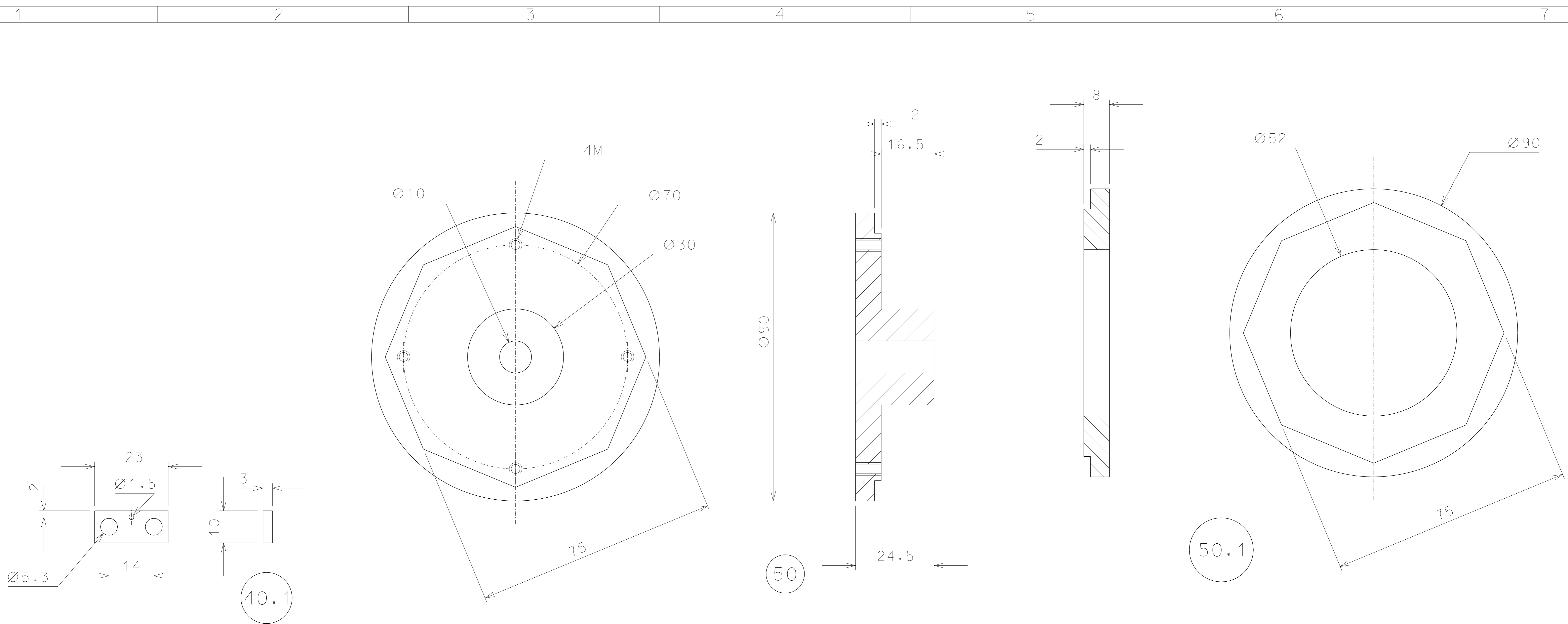


- By market
- 3 OR 81800 n°2 pc
 - 4 Stepping motor Type Vexta PK 264-01B
 - 5 Bunting NEB 3590 n°16 pc
 - 6 OR 61600 n°2 pc
 - 7 OR 81650 n°2 pc
 - 8 Pneurop DN 40 KF n°2 pc
 - 9 DN 100 ISO-K n°4 pc

ref.	note	date	signature
modifications			

43	021	Inner big plate	67	029	support blades
42	016	Spacer	66	029	support coil
41	023	Torque rod	65	029	spacer magnet
40	026	Nut	64	028	suspension wire
39	023	Screw	63	028	LVDT primary
38	023	Motor flange	62	028	1/2 cup retainer
35	023	Column support	61	027	Suspension blade
14	014	Thermal shield end pipe	58	022	LVDT secondary
13.1	016	Thermal cap	55	022	Spring holder
13	016	Thermal cap	54	022	Spring clamp
12	015	Vacuum collar	52	022	Coil spool
11	018	Sliding clamp	50.1	026	Magnet
10	018	Clamp cover	50	026	Magnet
9	018	Pusher blade	49	016	Support plate magnet
8	016	Load disk	46	010	1/2 CUP
6	020	Vacuum bell	44	016	Spacer
ref.	draw.	added legend	ref.	draw.	added legend

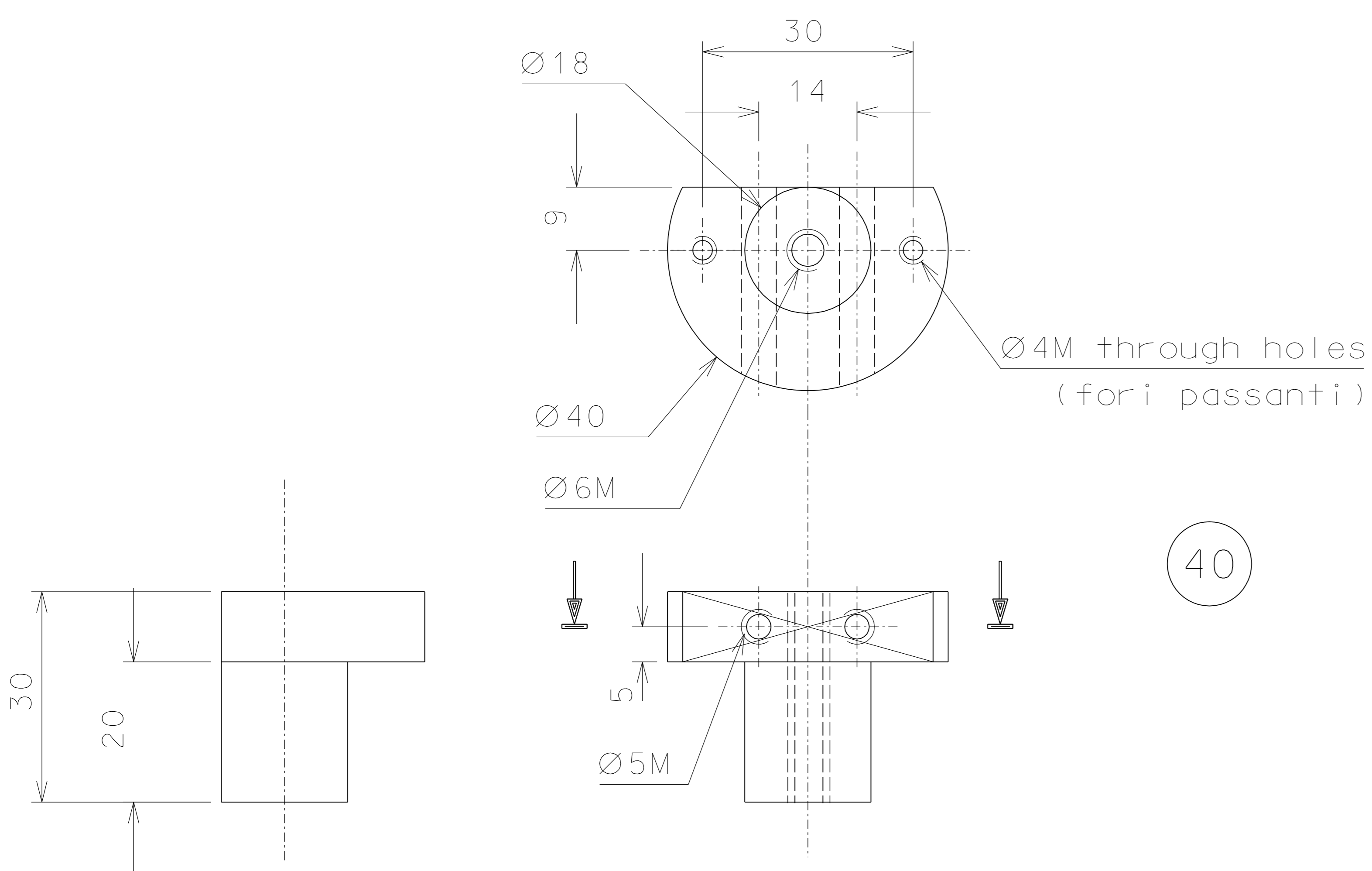
	LIGO PROJECT	designed for R. De Salvo
	draw. by PROMEC	ass. numb. MHI.024
	date 11-09-04	scale 1:4 issue B
	replaces draw. n° 001	A 1
MH INTERFEROMETER NEW PARTIAL ASSEMBLY		



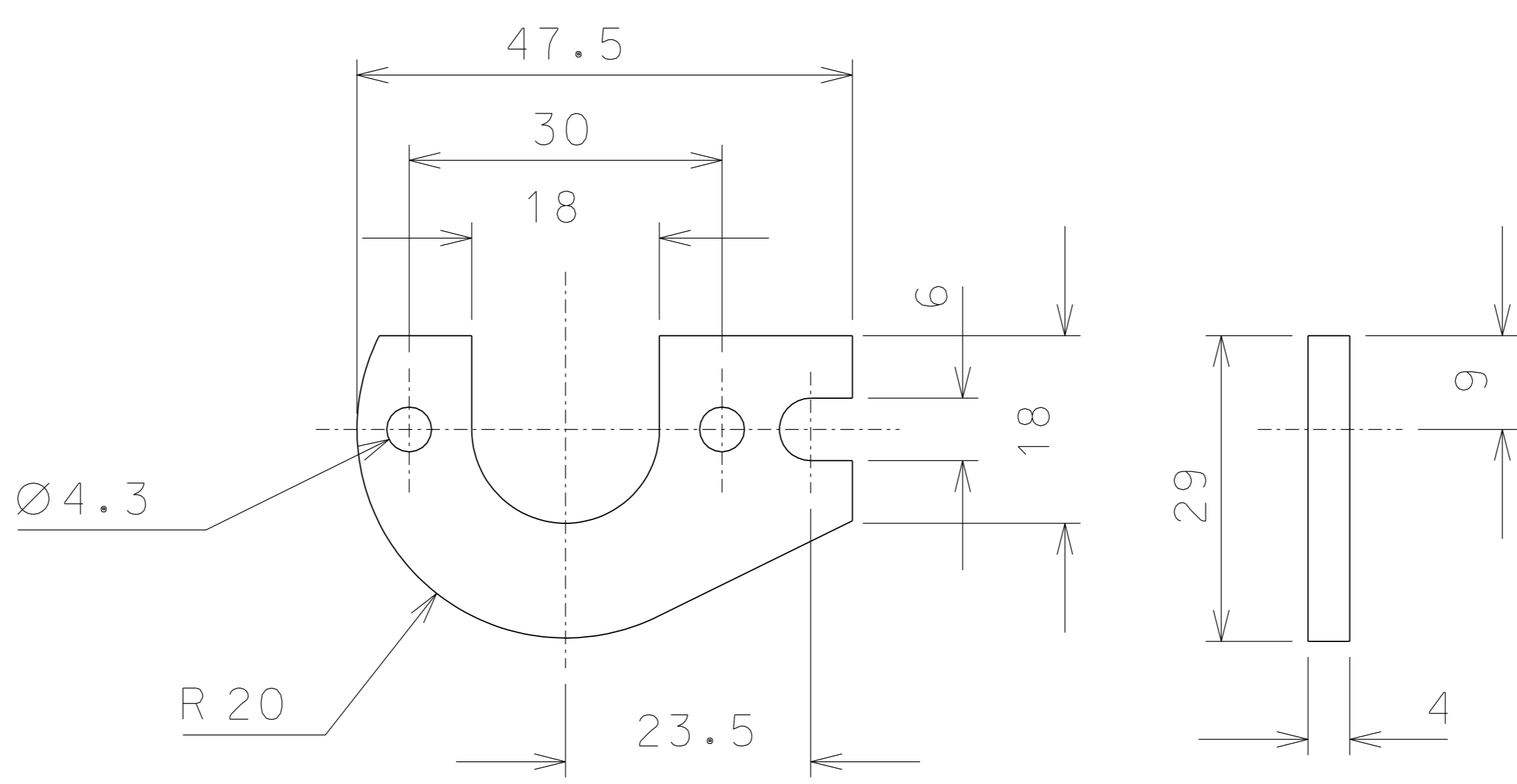
40.1

50

50.1



40



40.2

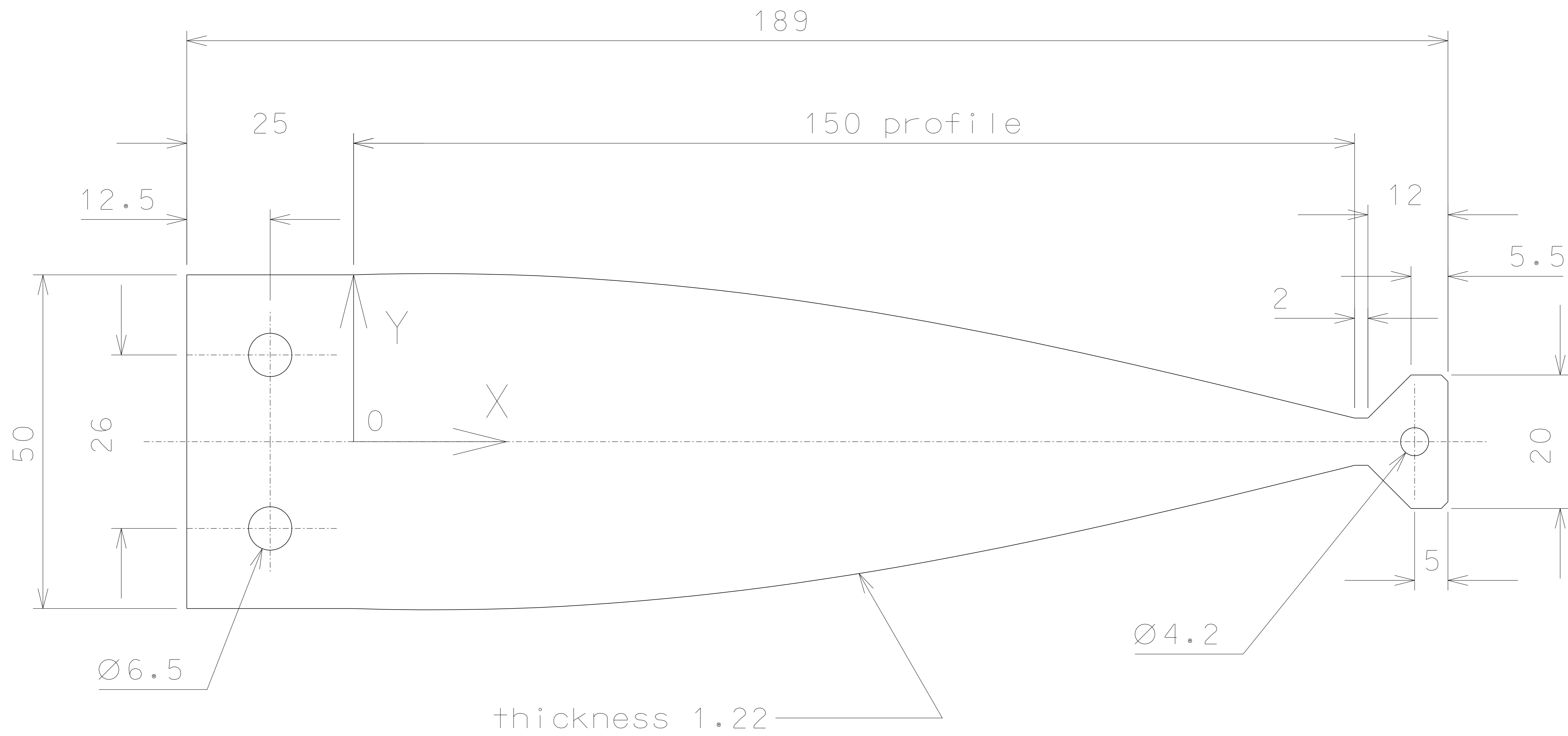
ref.	note	date	signature
modifications			

ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale
50.1	4	ARMCO steel	1:1				
50	4	ARMCO steel	1:1				
40.2	4	bronze	1:1				
40.1	4	AISI 304	1:1				
40	4	peek	1:1				

General machining tolerances UNI 5307-63								
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1'	± 30'	± 20'	± 10' referred to the shortest side				

	LIGO PROJECT	designed for R. De Salvo	
		draw. by PROMEC	
		n° draw. Laser.026	
LASER DETAILS	date 19-03-04	scale 1:1	
	detail from 024	issue A	
	replaces draw. n°		A 2

X	Y
0	25.00
11.71	25.18
23.43	24.99
35.14	24.43
46.86	23.50
58.57	22.22
70.29	20.61
82.00	18.70
93.71	16.52
105.43	14.11
117.14	11.50
128.86	8.74
140.57	5.87
150.00	3.54



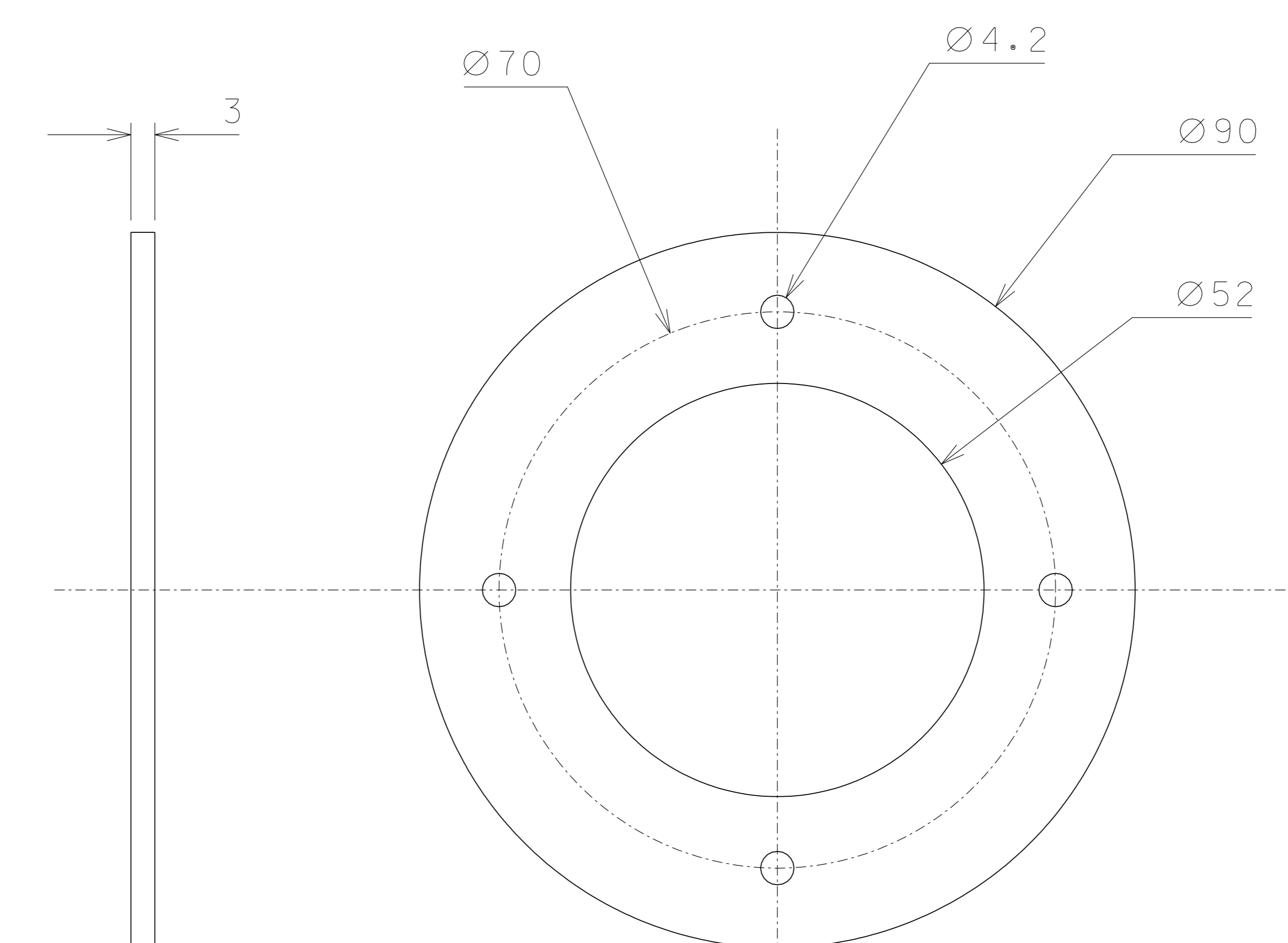
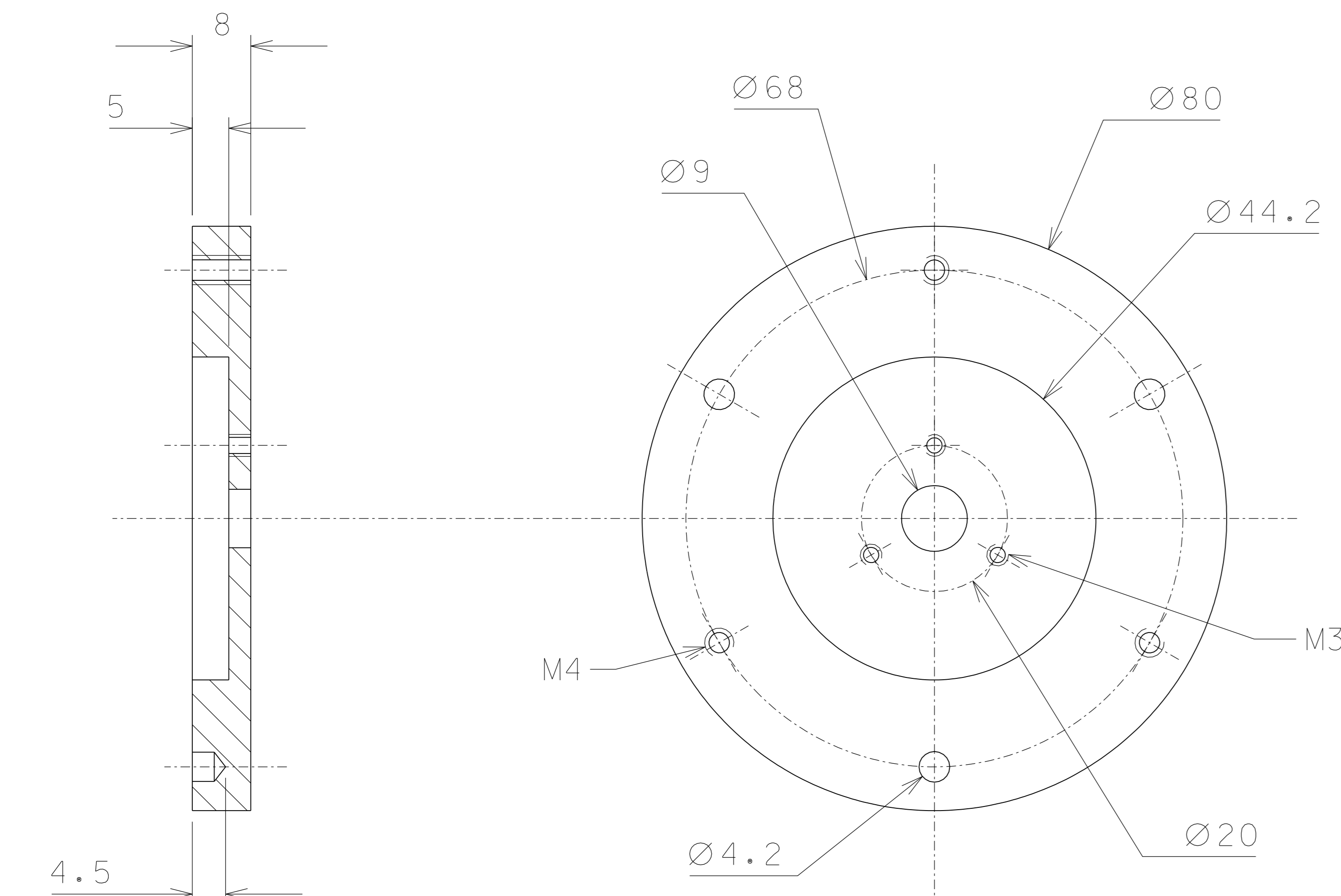
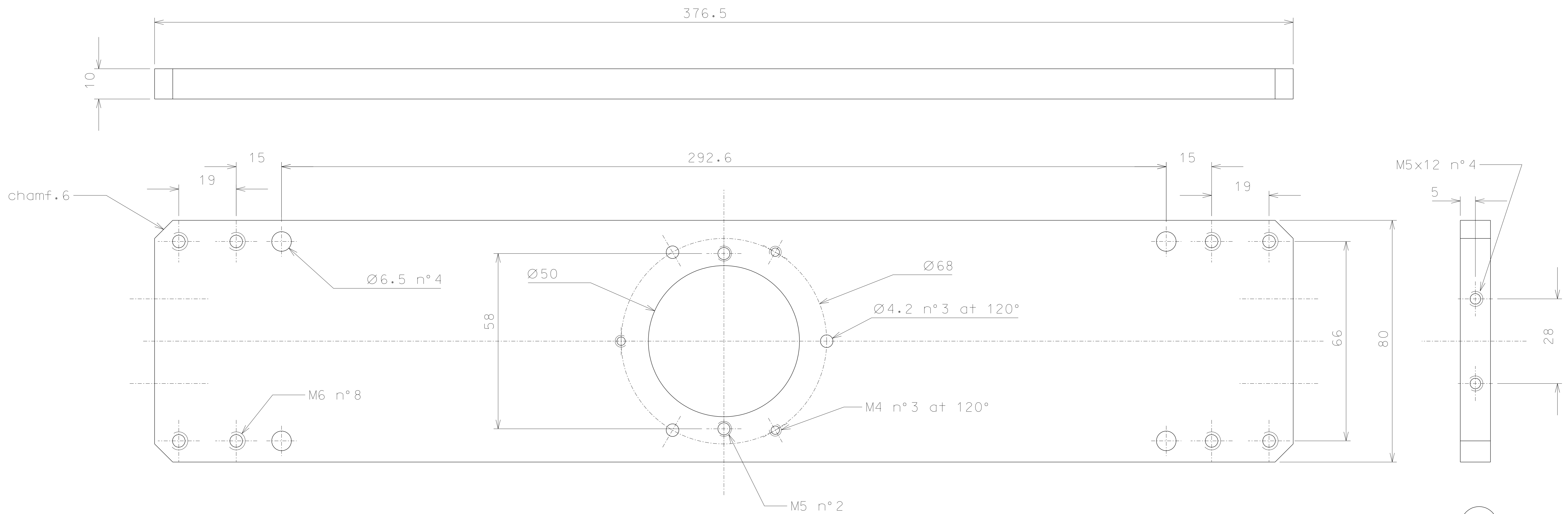
61	8	maraging	1:1
ref.	pieces	mat. and treatments	scale

ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63								
Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1	± 30'	± 20'	± 10' referred to the shortest side				

ref.	note	date	signature
modifications			

	<h1>LIGO PROJECT</h1>		designed for R. De Salvo	
			draw. by PROMEC	
title <h2>LASER DETAILS</h2>	n°draw. Laser.027		date 11-09-04	
	detail from 024		scale 1:1	
	replaces draw. n° 017		issue B	
			A 3	



ref.	note	date	signature
modifications			

67	4	AISI 304	1:1
66	4	AISI 304	1:1
65	4	AISI 304	1:1
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63

Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000	> 4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3
angular Toll.	± 1'	± 30'	± 20'	± 10' referred to the shortest side				

LIGO PROJECT designed for R. De Salvo

draw. by PROMEC

n° draw. Laser. 029

title **LASER DETAILS**

date 11-09-04 scale 1:1

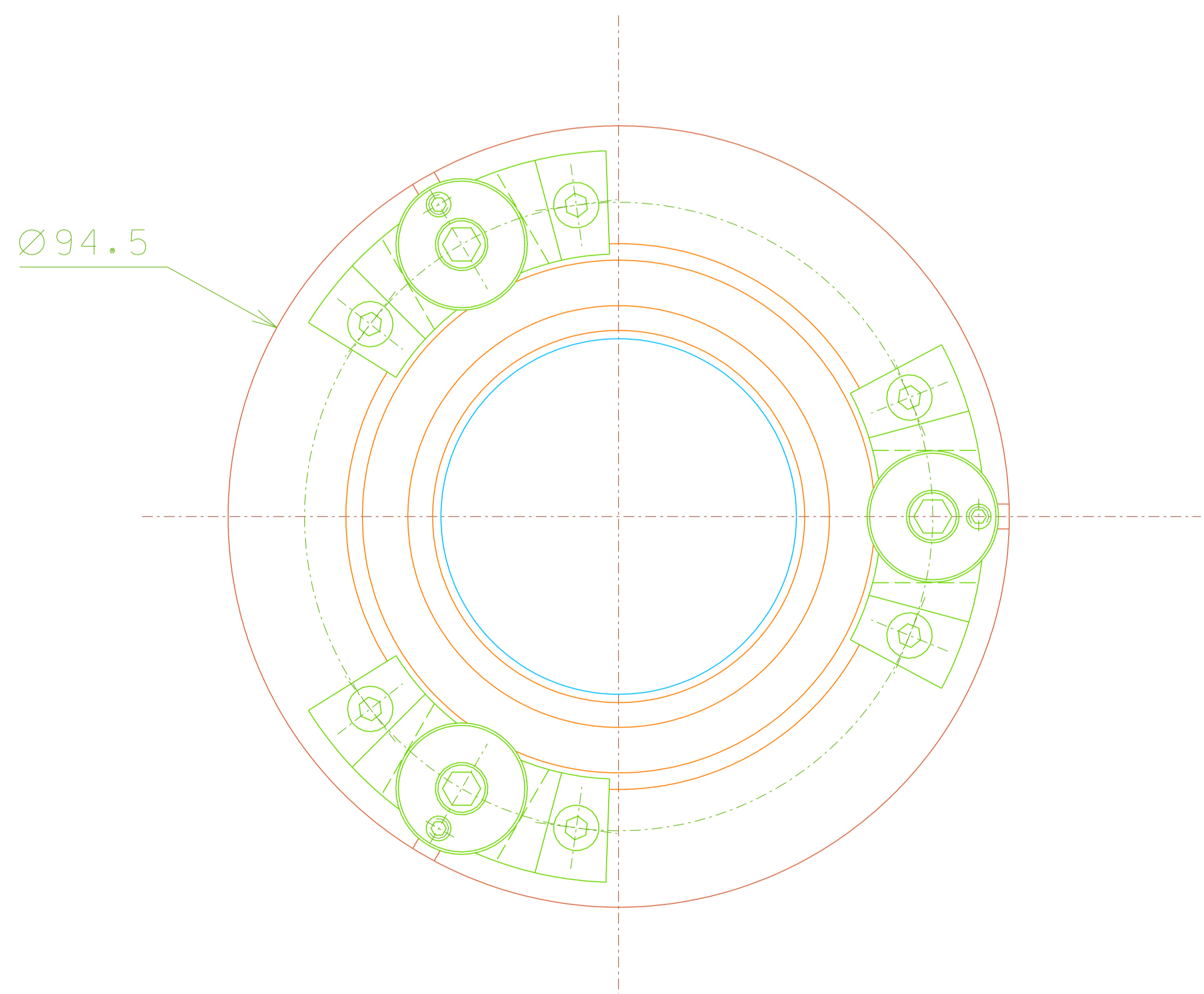
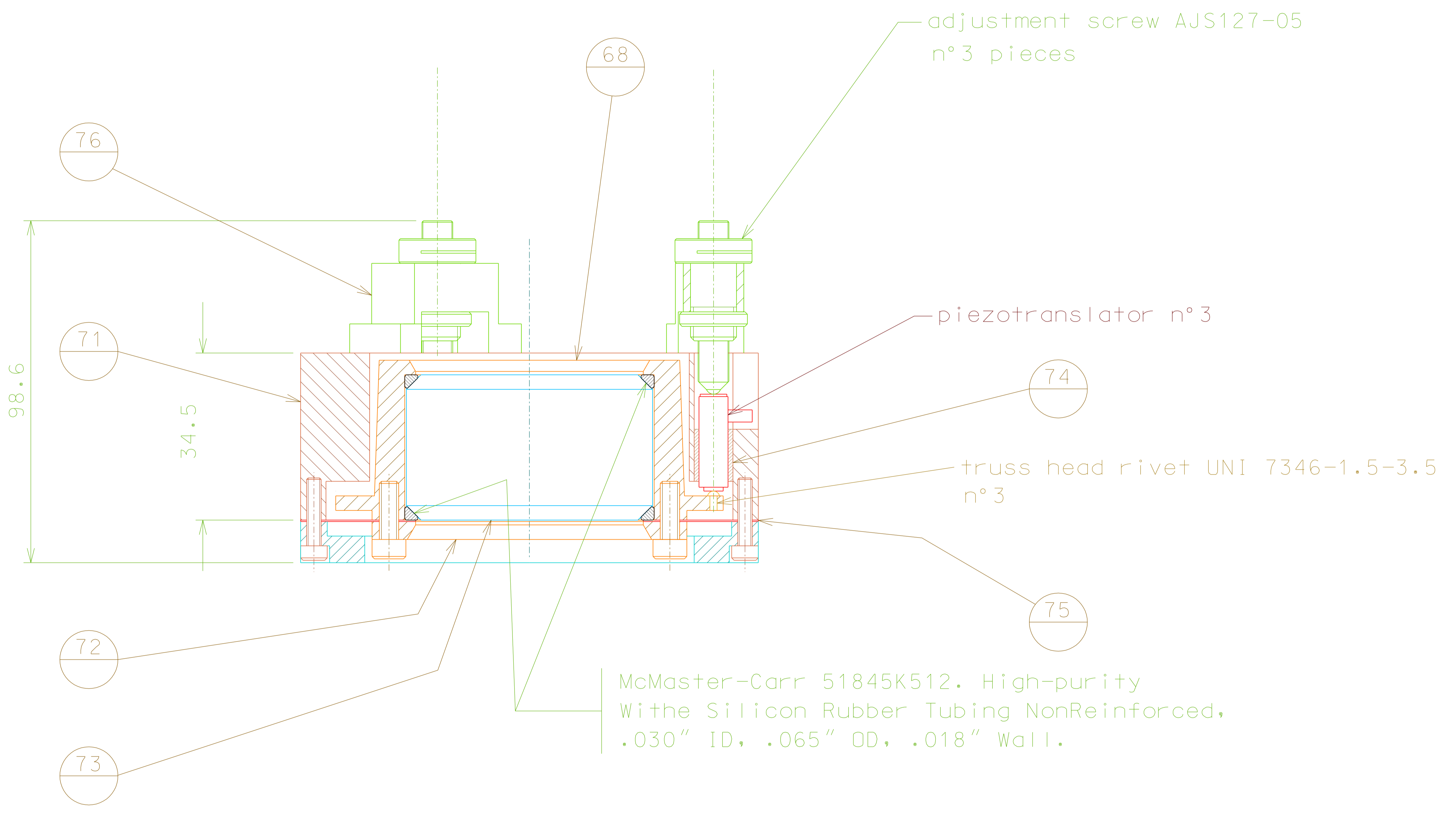
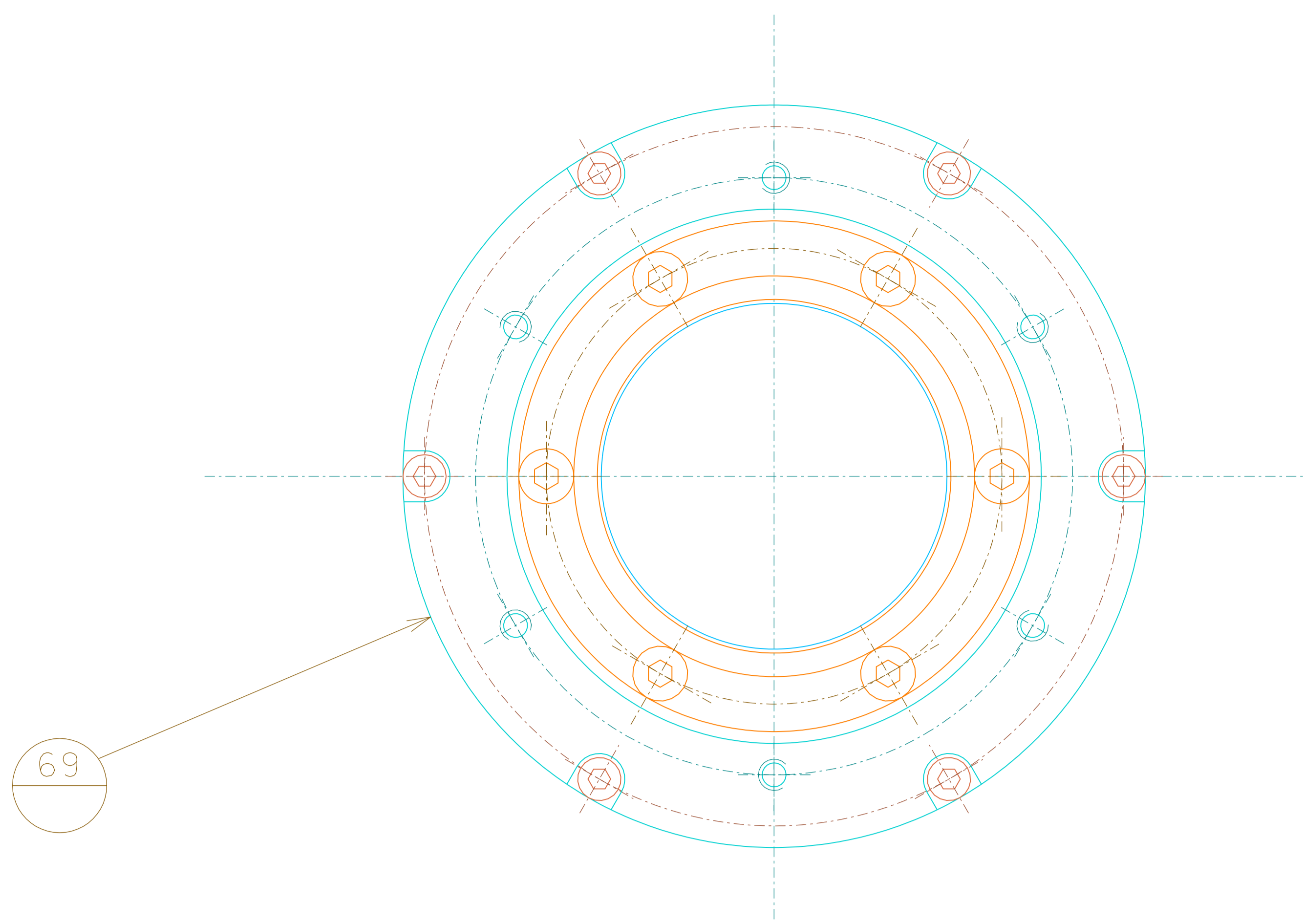
detail from 024 issue A

replaces draw. n° A 2

67

66

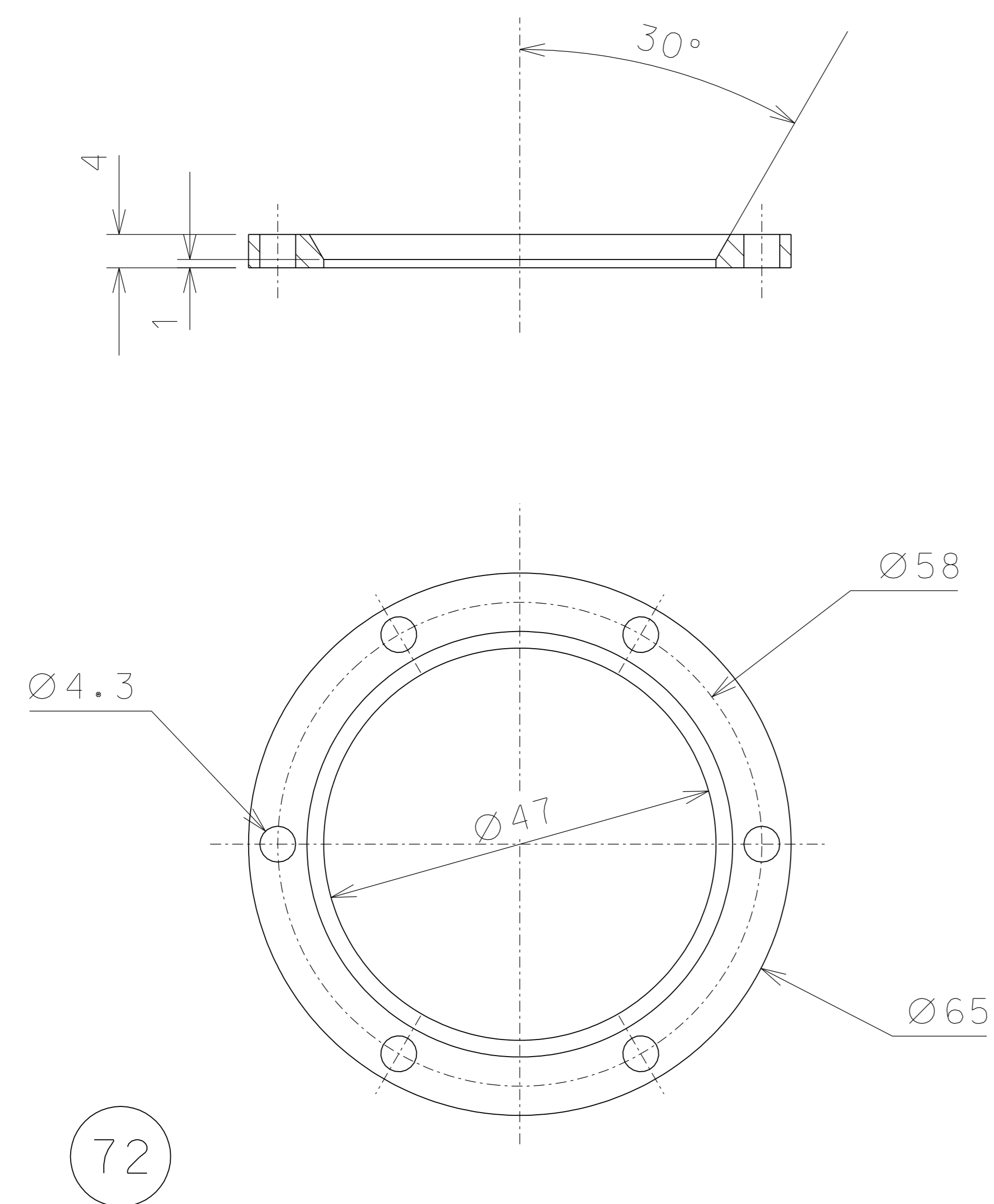
65



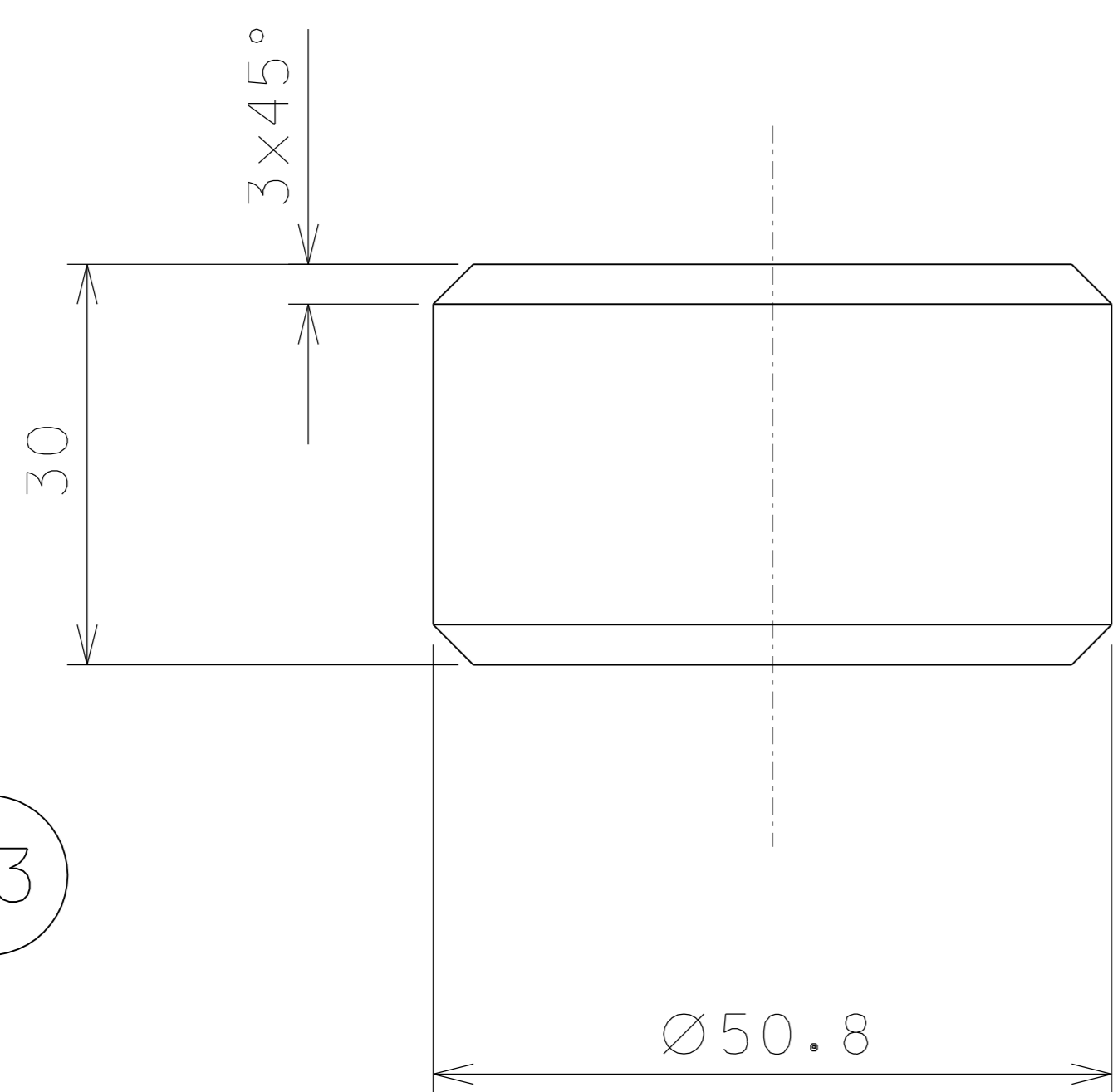
ref.	draw.	added legend	ref.	draw.	added legend
68-72	socket head M4x10	6			
70-71	socket head M3x10	6			
69-71	socket head M3x12	6			
detail	type	n°piec.			
Screw's table					

ref.	note	date	signature		
	eliminated 70-added 76	07-03-07			
	modified part 70	26-02-07			
	confirm OR 3181	30-01-07			
modifications					
73	031 false mirror				
72	031 cover mirror				
71	032 external body				
70	eliminated	76	031 support screws		
69	032 fixing ring	75	031 flat spring		
68	032 body mirror	74	031 guide bushing		
ref.	draw.	added legend	ref.	draw.	added legend

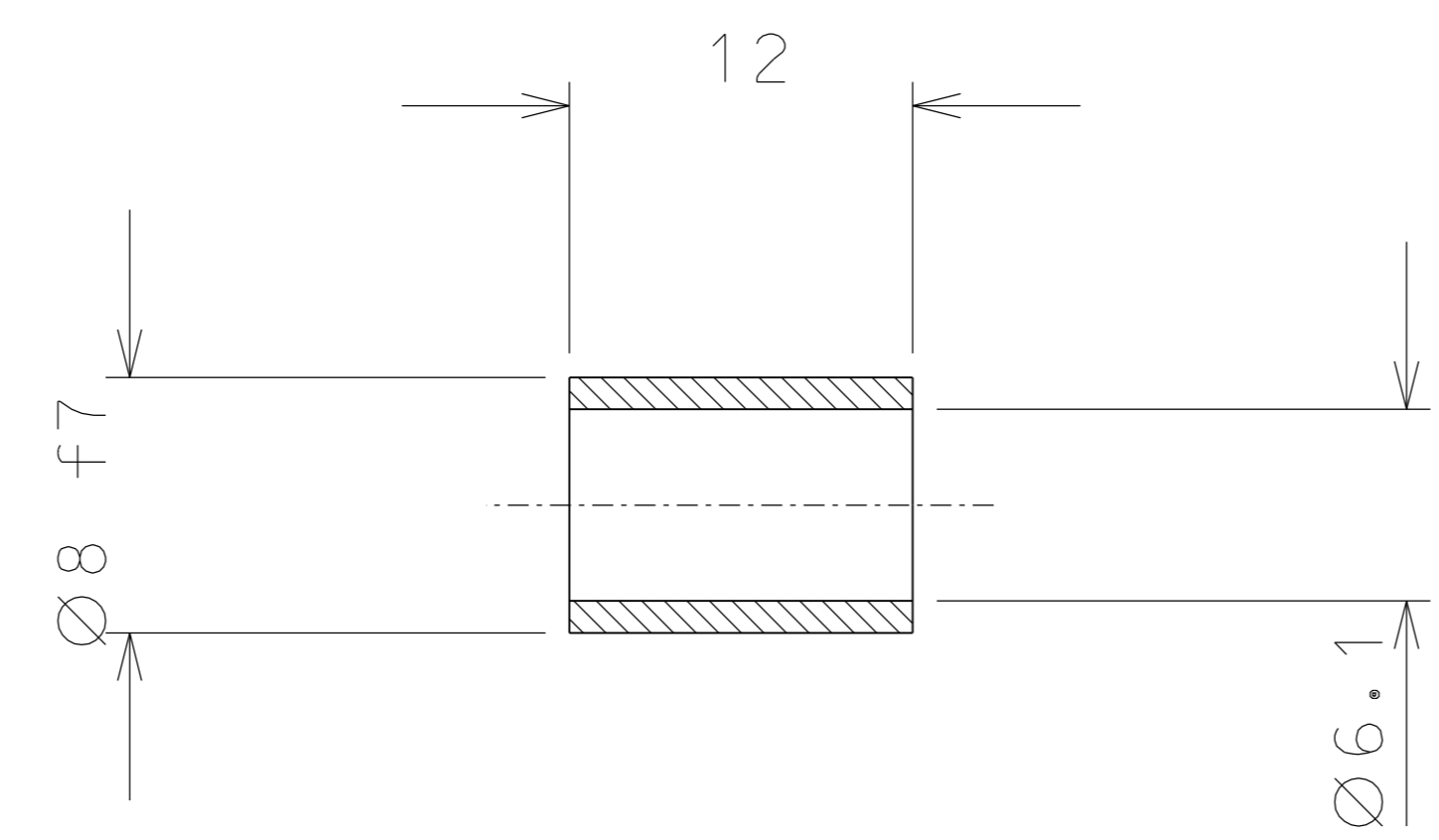
	LIGO PROJECT	designed for R.De Salvo	
		draw. by PROMECC	
		date 07-01-07	scale 1/1
		ass. numb. MHI.030-03	
MH INTERFEROMETER MIRROR ASSEMBLY		replaces draw. n°	A 2



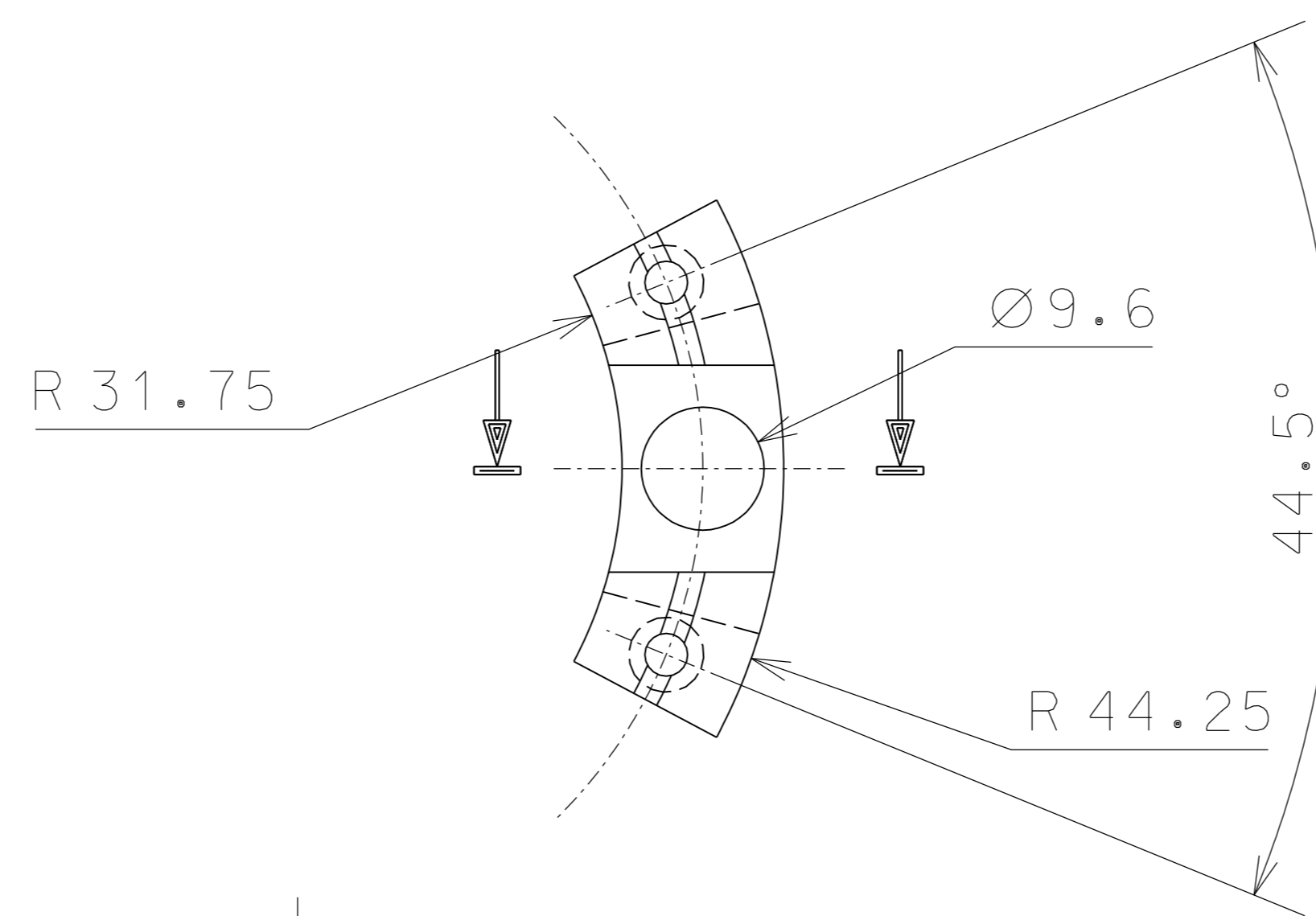
72



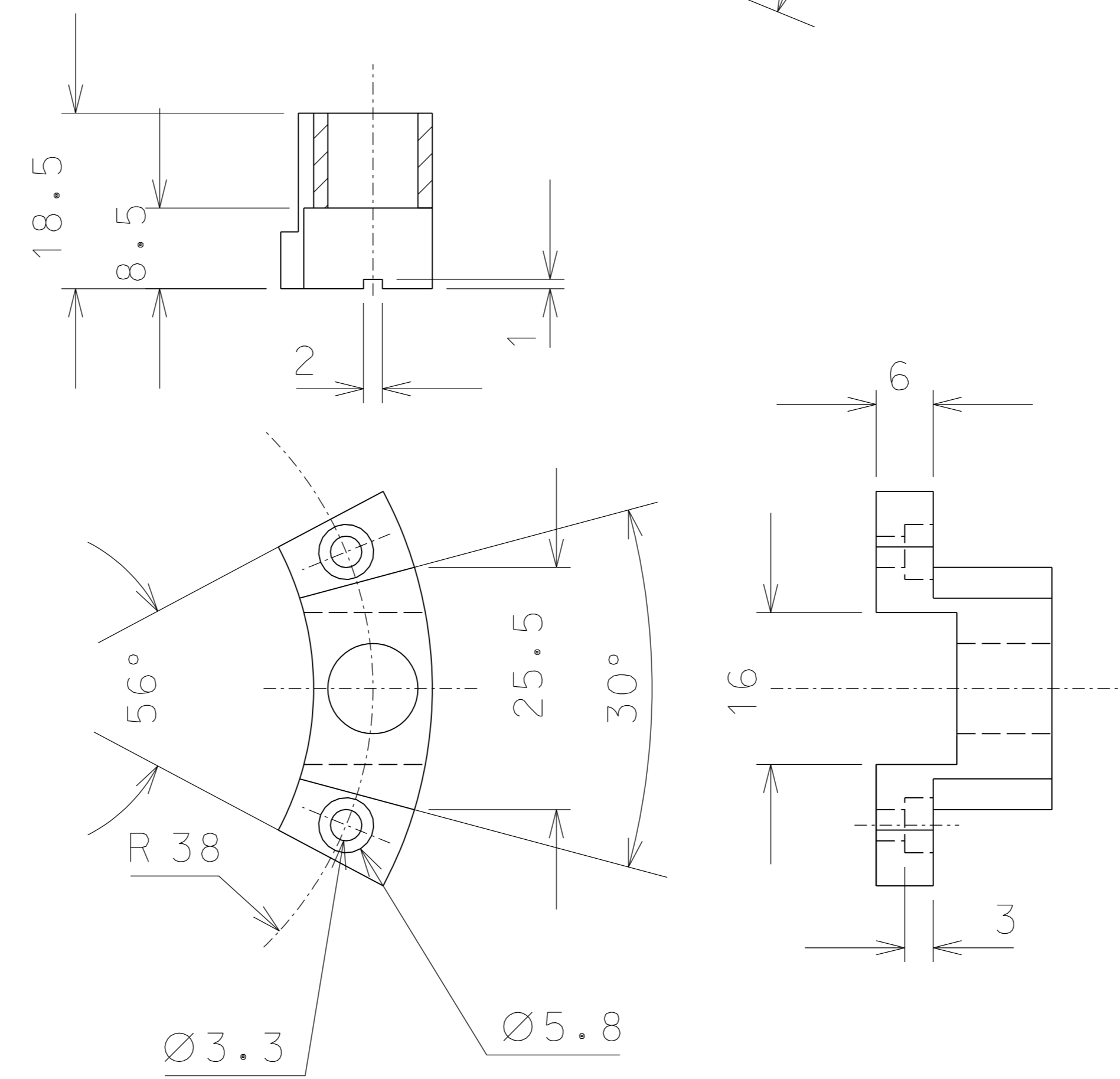
73



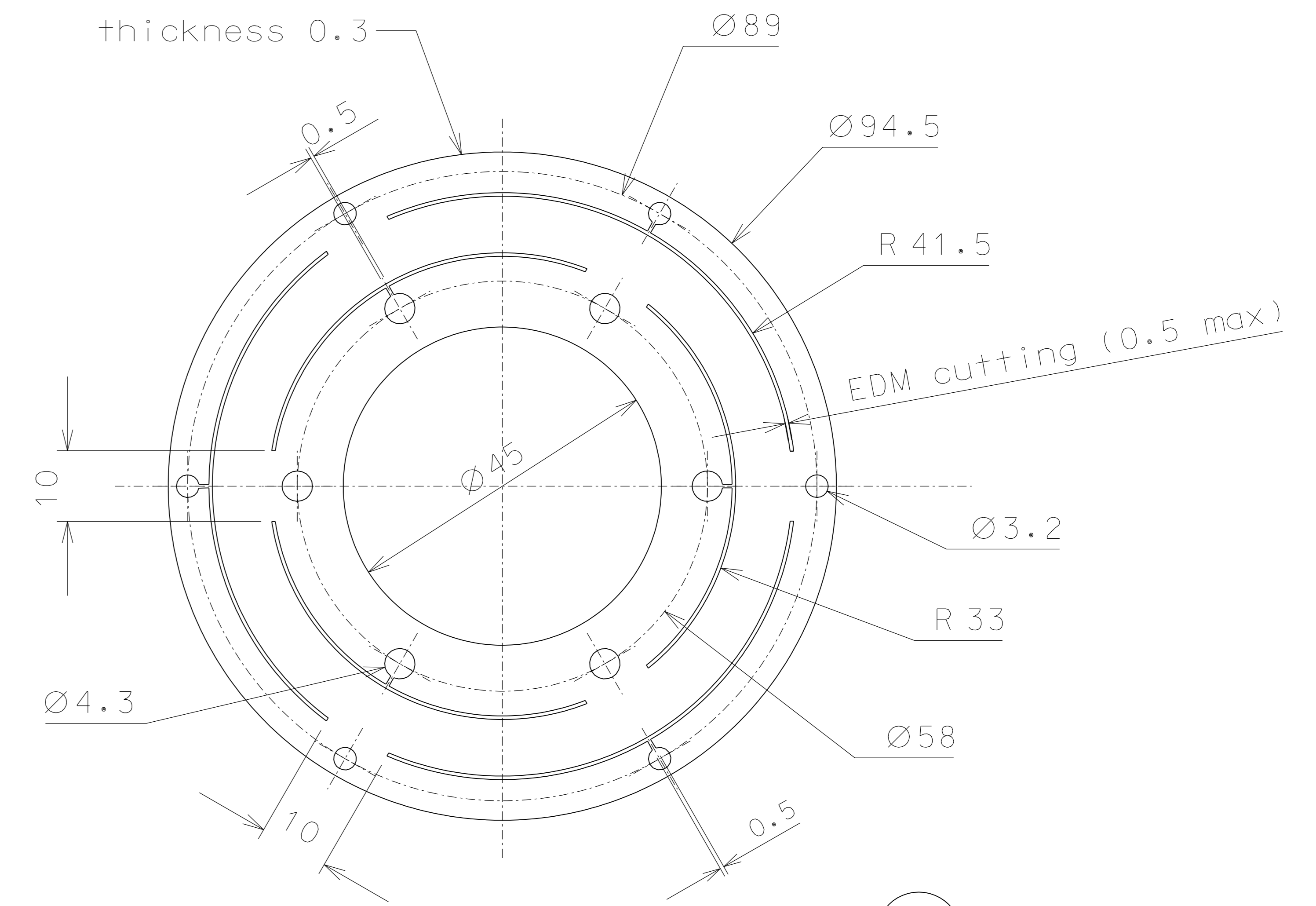
74



75

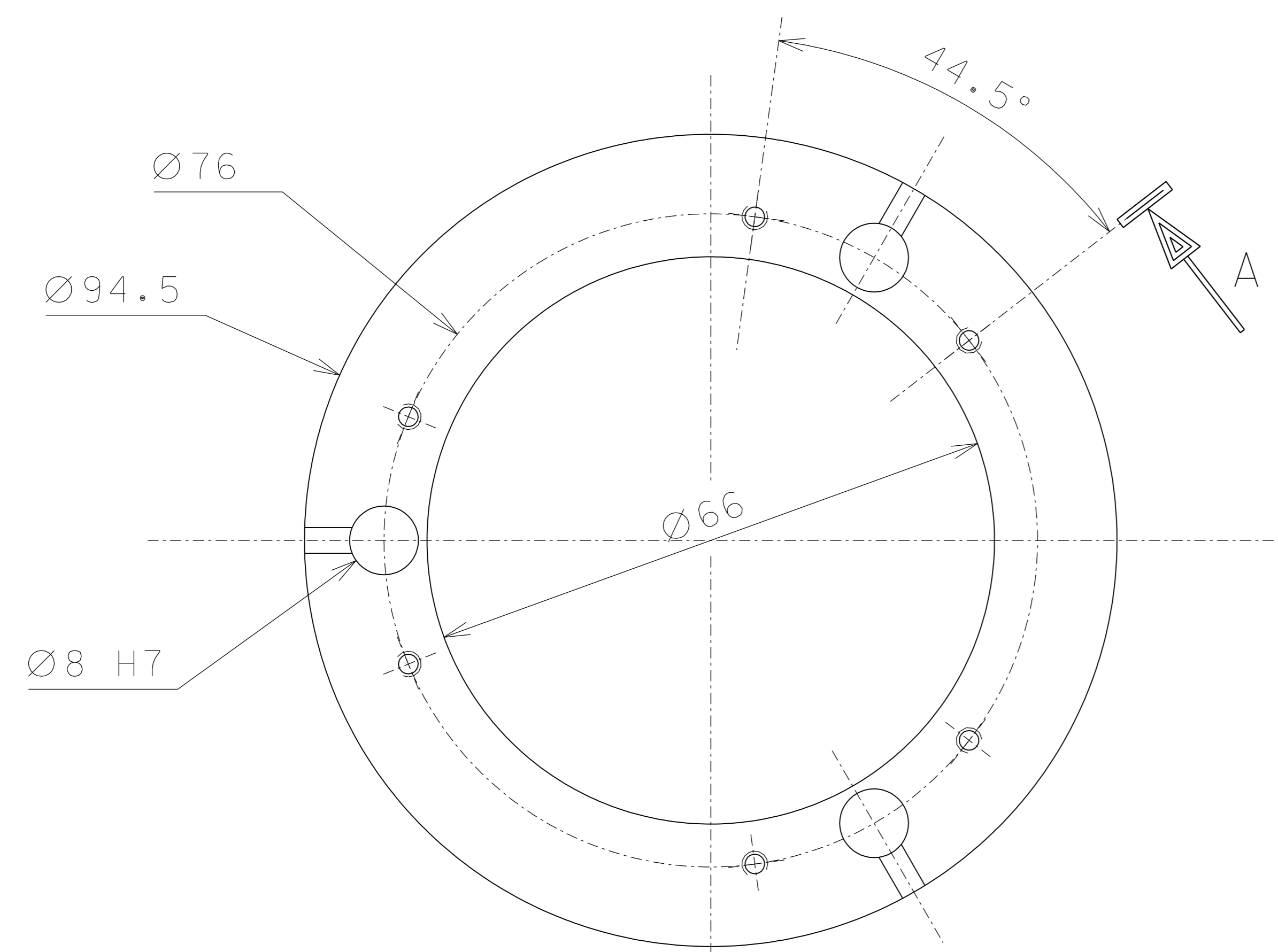
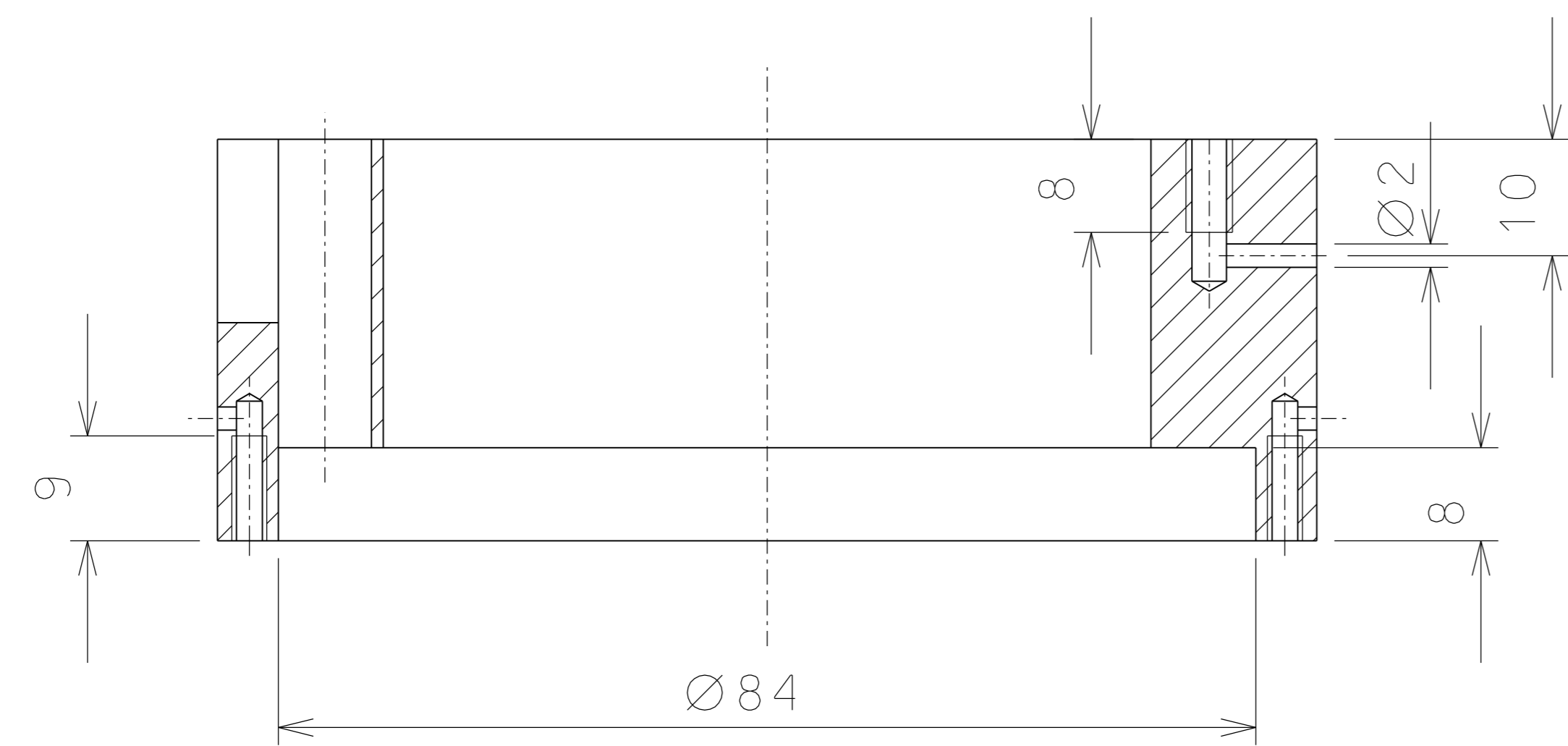
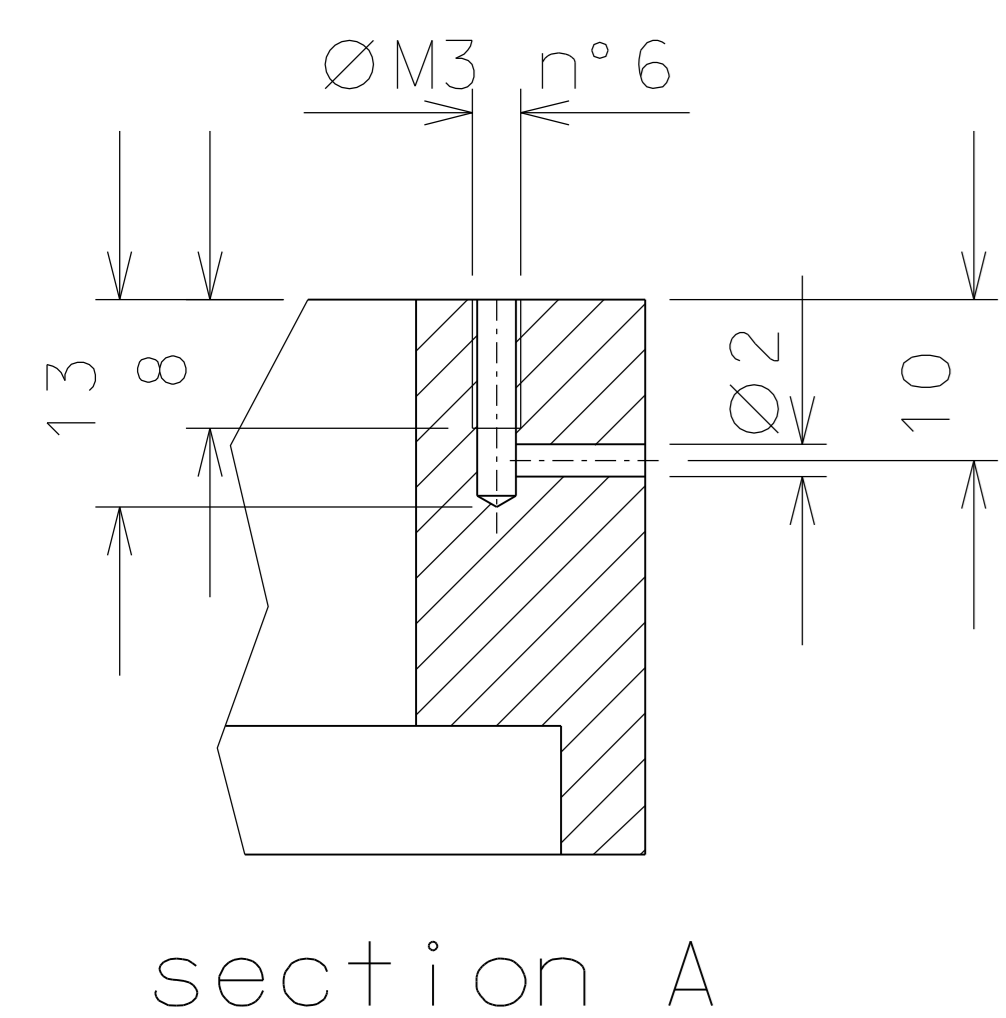
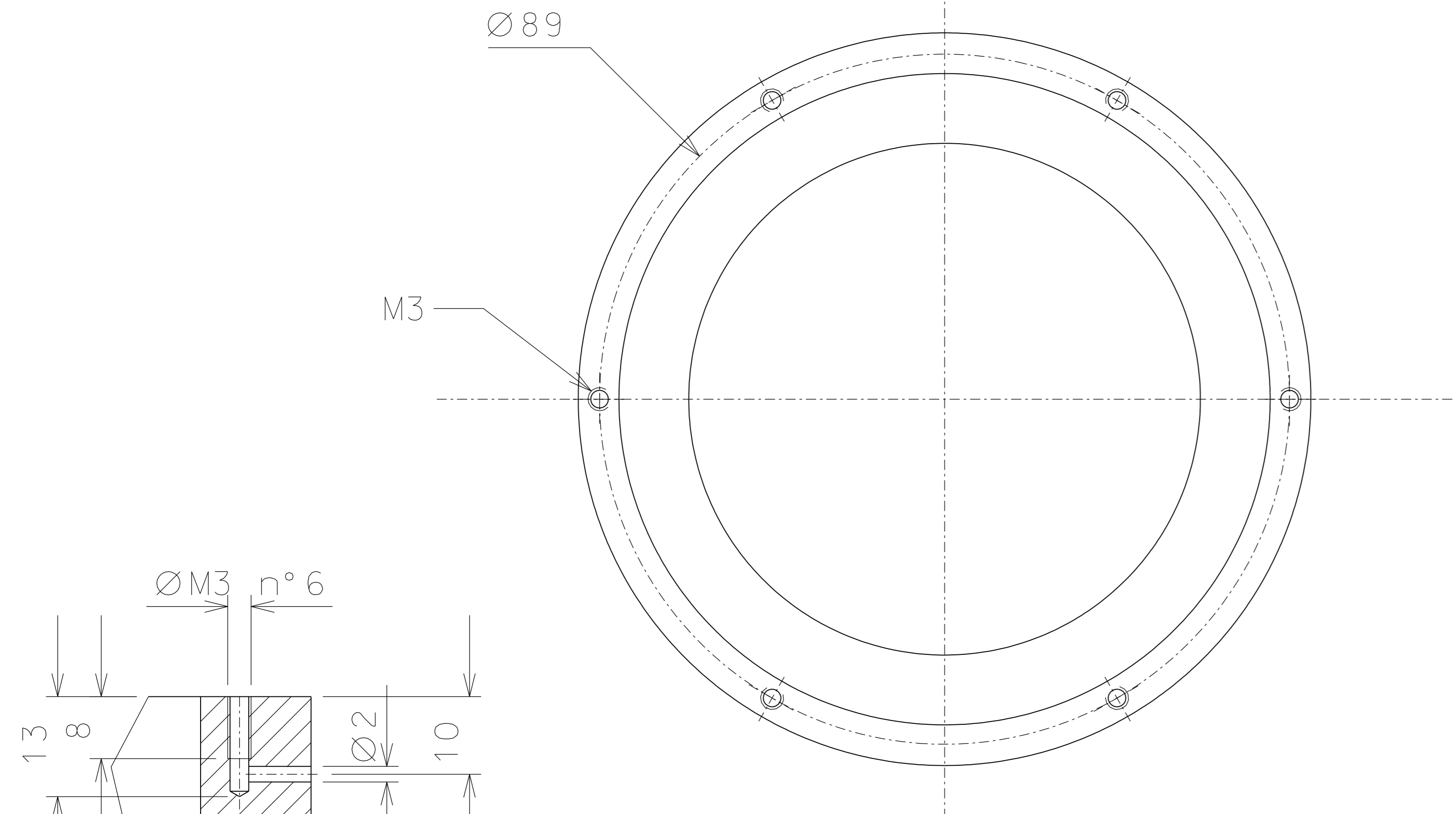


76

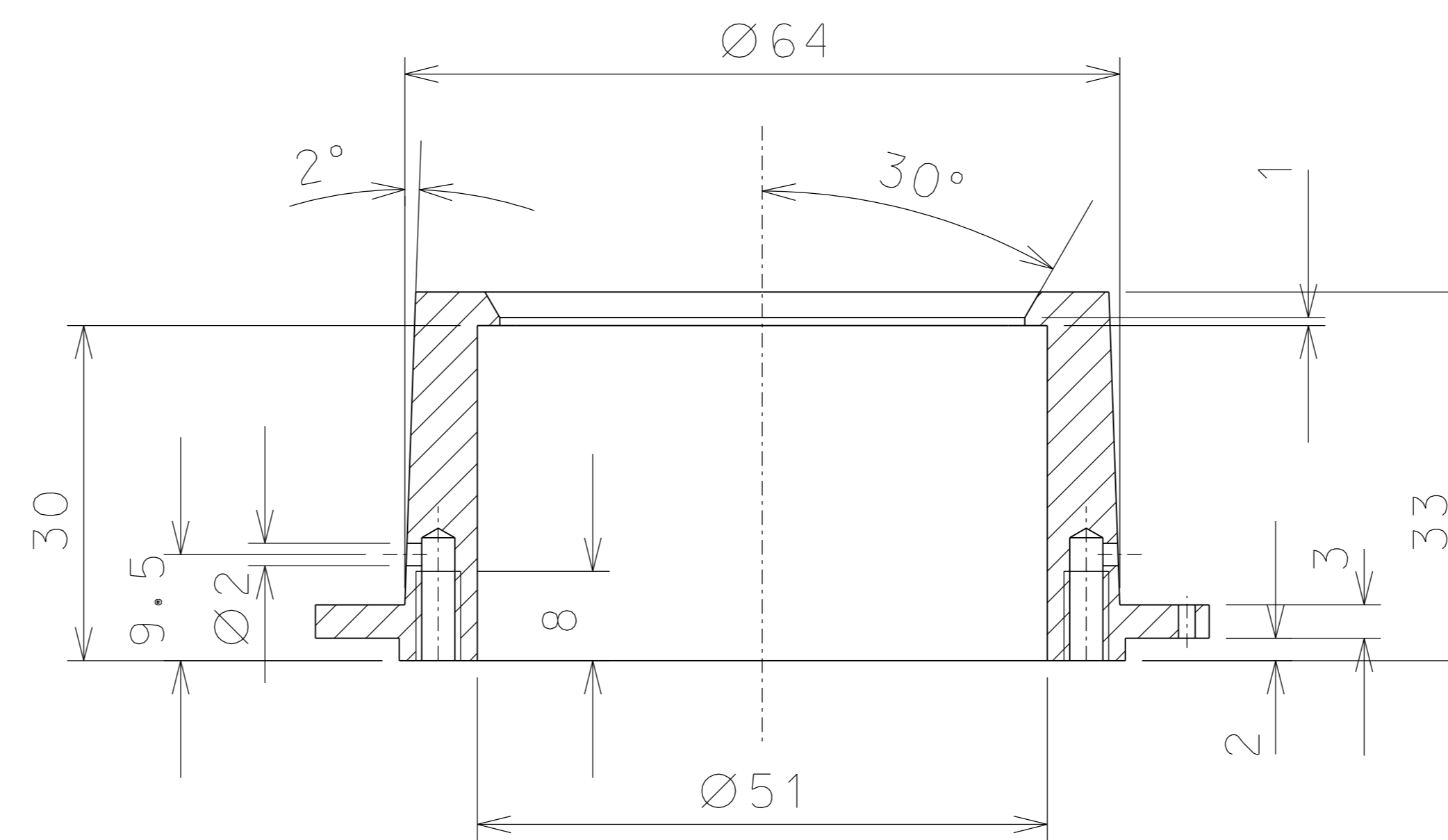
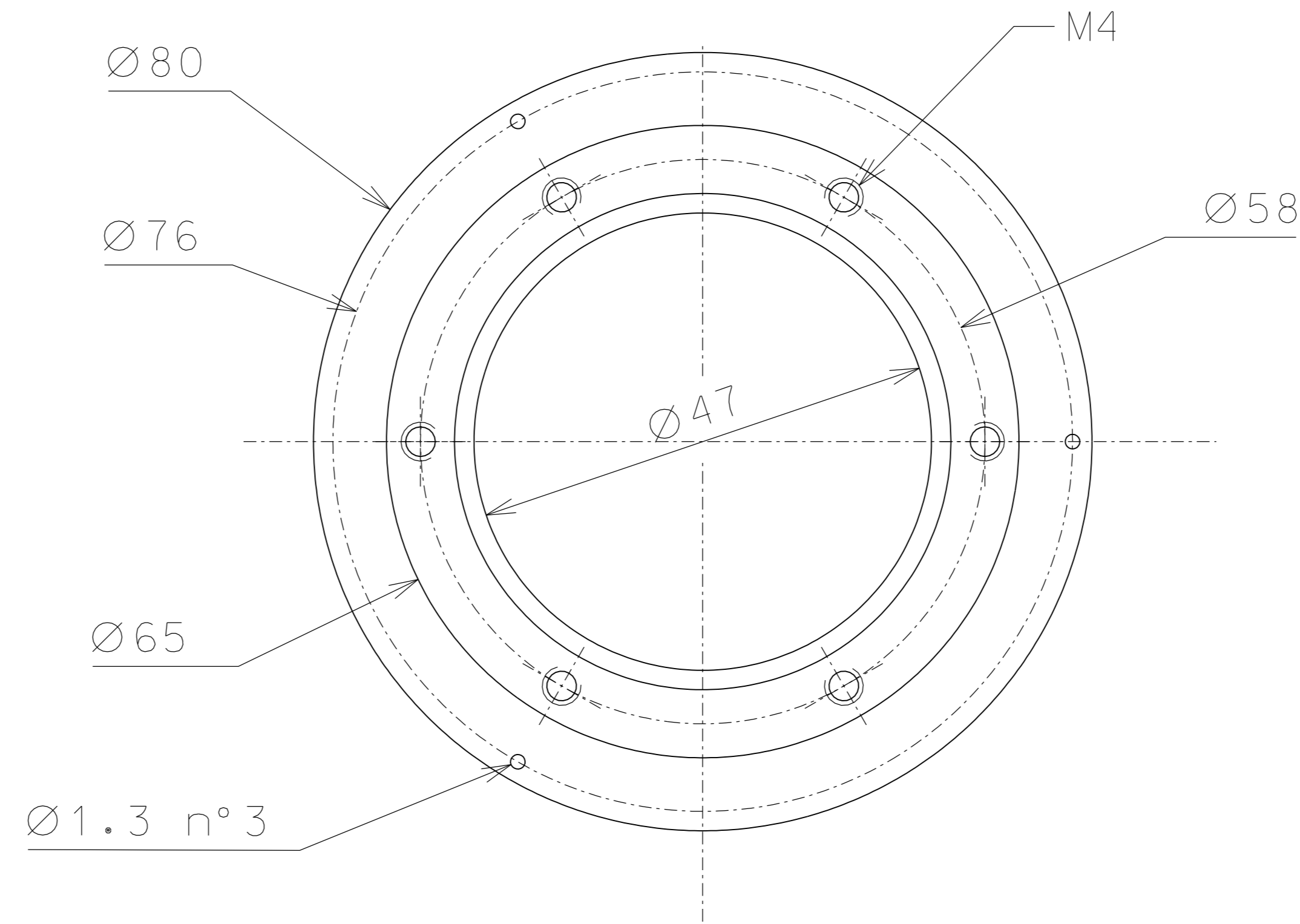


ref.	note	date	signature
	eliminated 70-added 76	07-03-07	
	modified part 70	26-02-07	
	modified part 70	30-01-07	
modifications			
ref.	pieces	mat. and treatments	scale
76	3	EN 6082	1/1
75	1	stainless steel	1/1
74	3	AISI 304	2/1
73	1	EN 6082	1/1
72	1	EN 6082	1/1

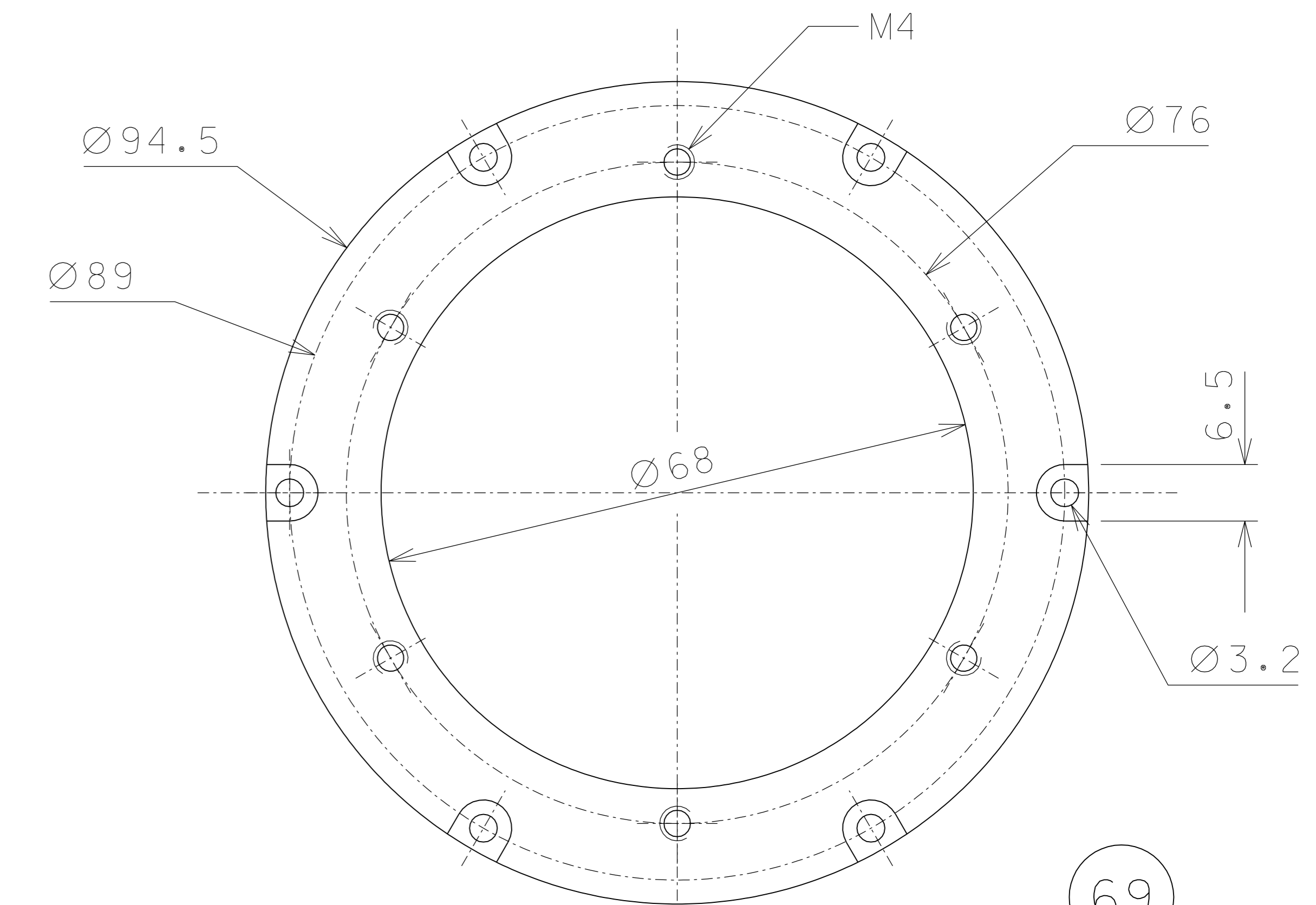
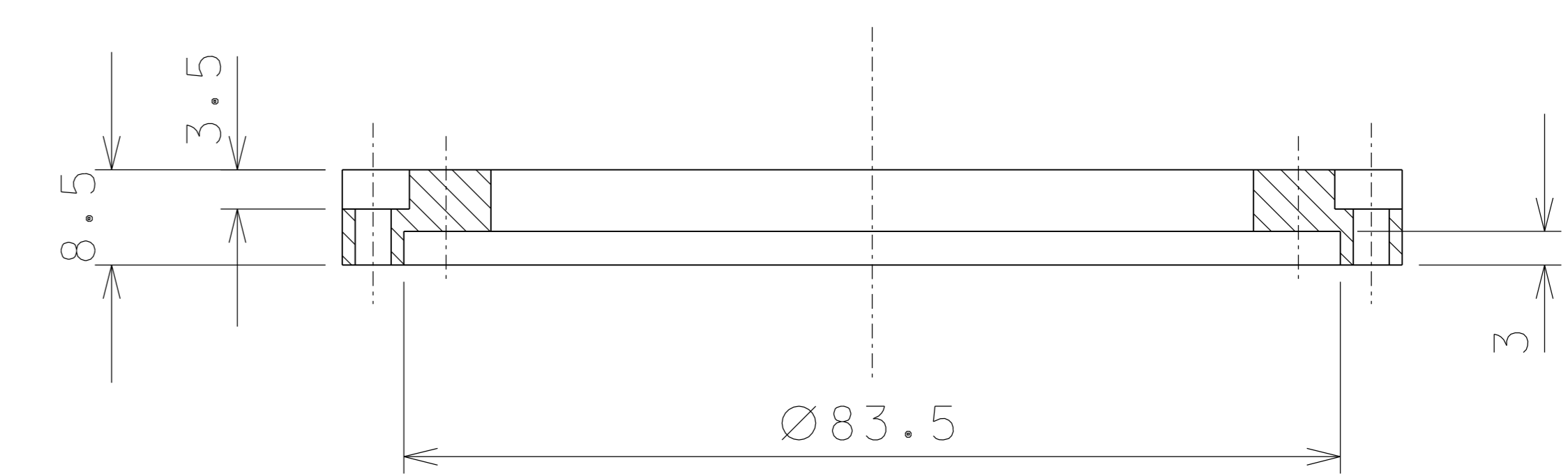
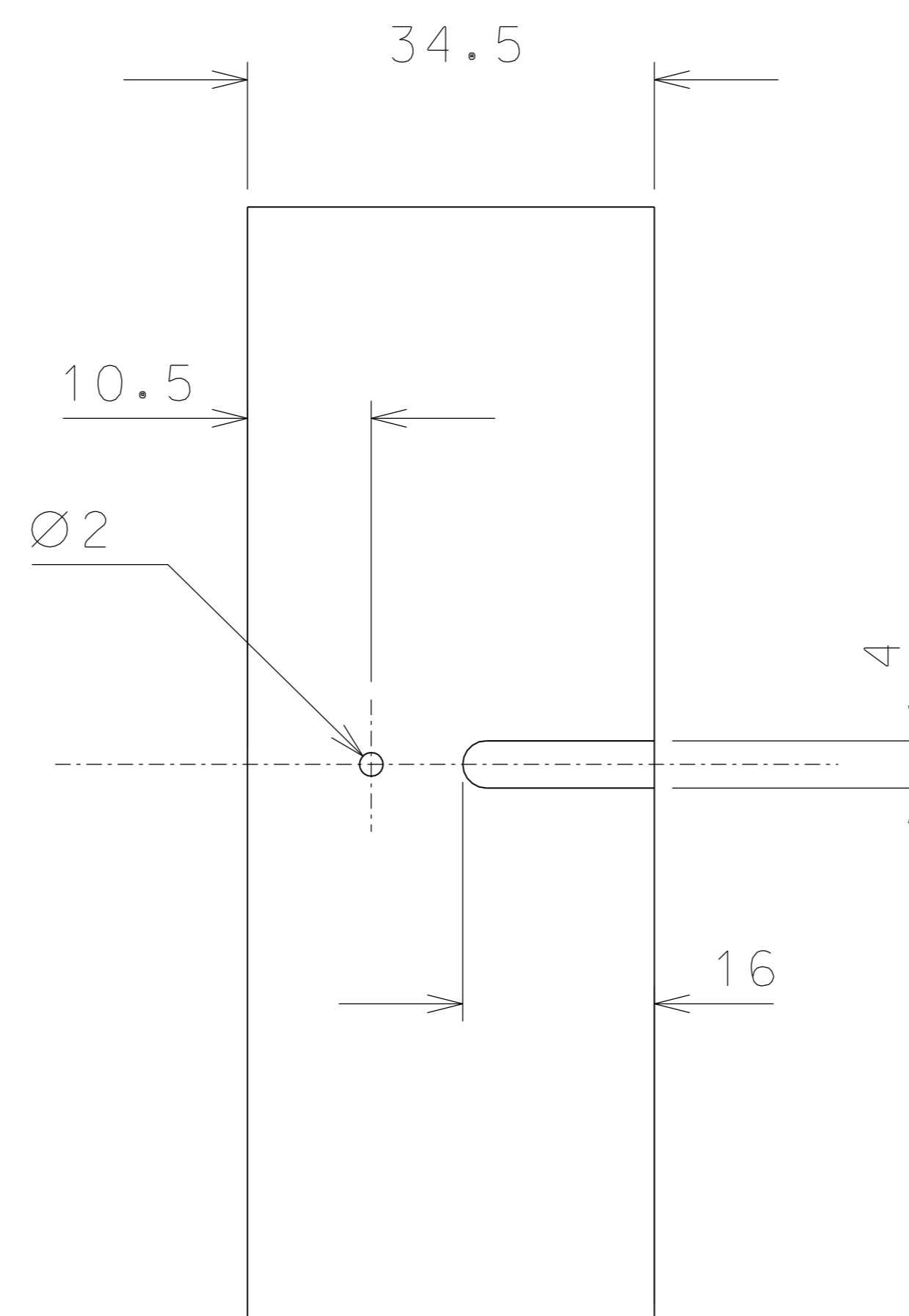
General machining tolerances UNI 5307-63							
Dimensions	< 6	>6-30	>30-120	>120-315	>315-1000	>1000-2000	>2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1'	± 30'	± 20'	± 10' referred to the shortest side			
designed for		R.De Salvo					
draw. by		PROMEC					
date		07-01-07		scale		1/1	
n° draw.		MHI.031-03					
replaces draw. n°							
detail from		030		A		2	



71



68



69

ref.	pieces	mat. and treatments	scale	ref.	pieces	mat. and treatments	scale
71	1	EN 6082	1/1				
69	1	EN 6082	1/1				
68	1	EN 6082	1/1				

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1'	± 30'	± 20'	± 10'			

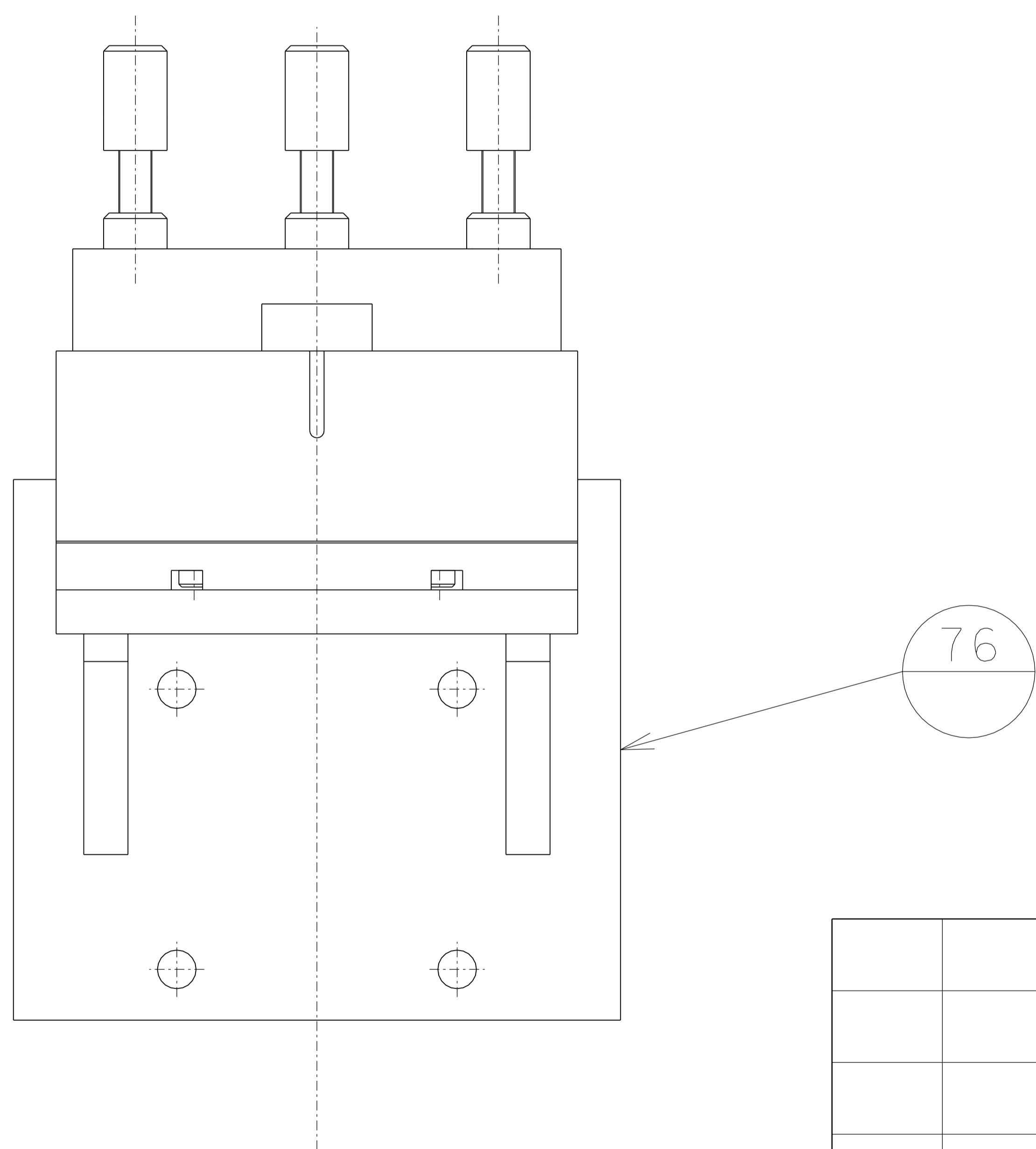
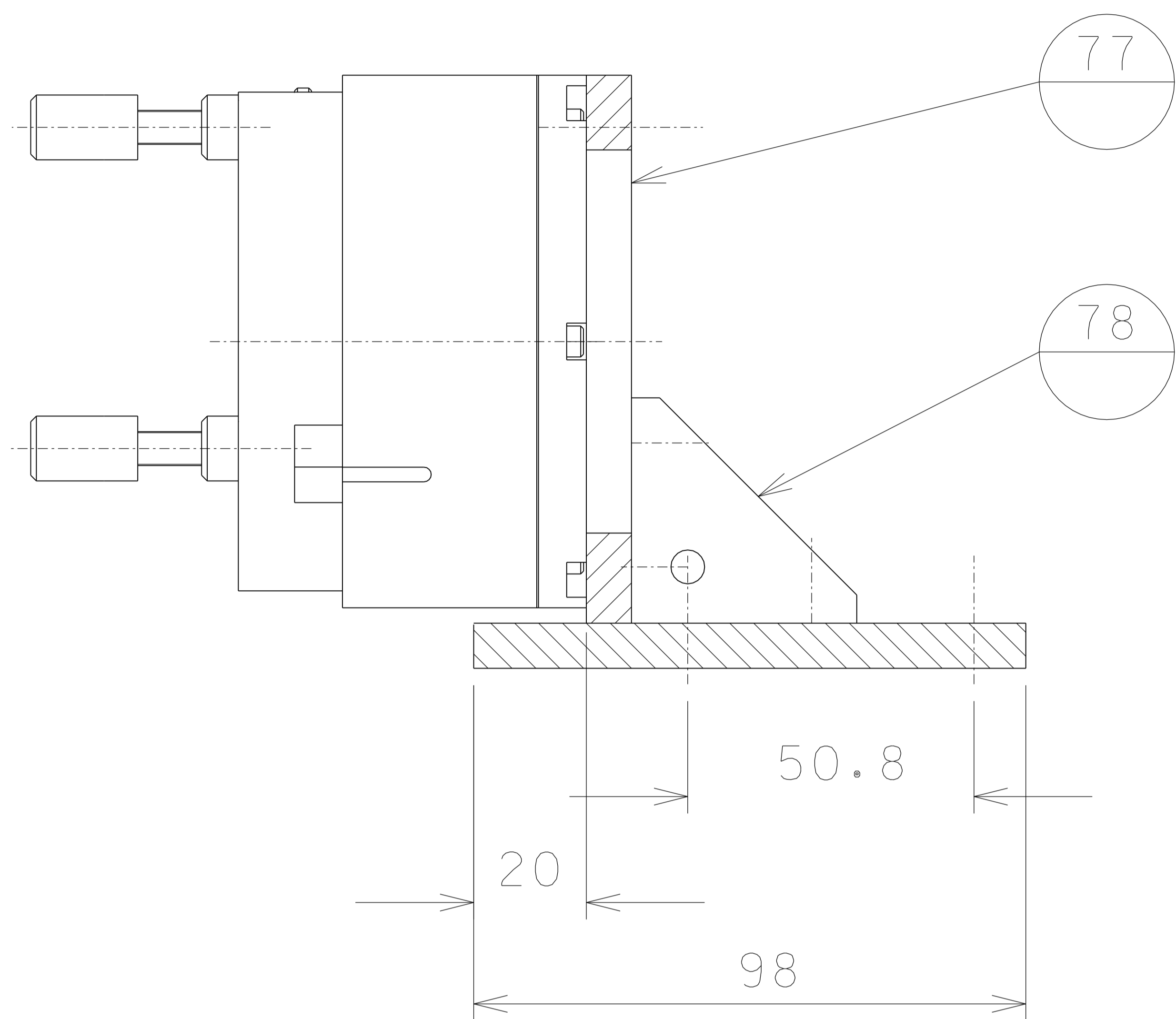
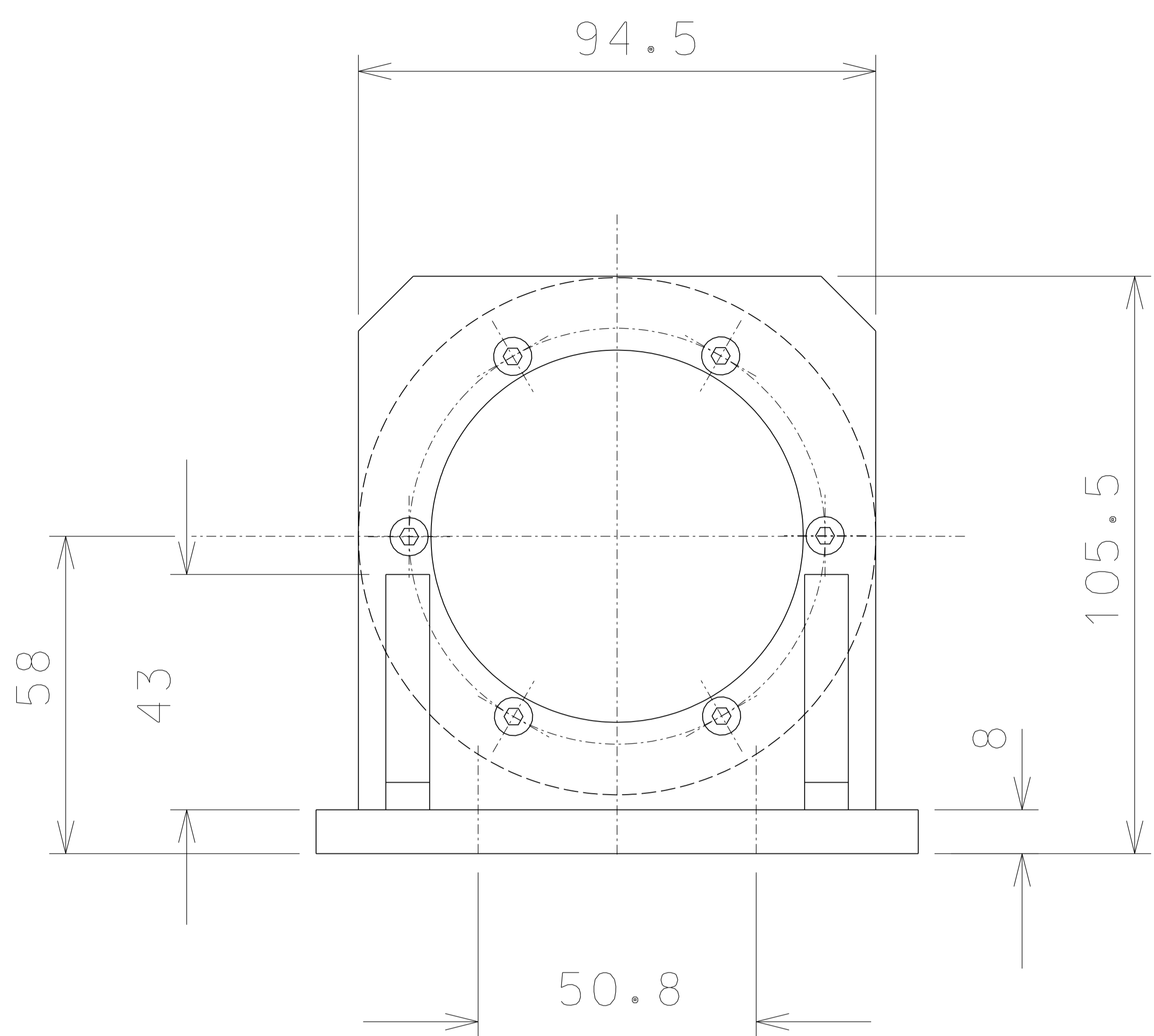
designed for	R.De Salvo		
draw. by	PROMECC		
date	07-01-07	scale	1/1
n° draw.	MHI.032-03		
replaces draw. n°			
detail from	030	A 2	

LIGO PROJECT
 MH INTERFEROMETER
 DETAILS

modified part	date
modified part 71	08-03-07
modified part 68	26-02-07
modified part 71	30-01-07

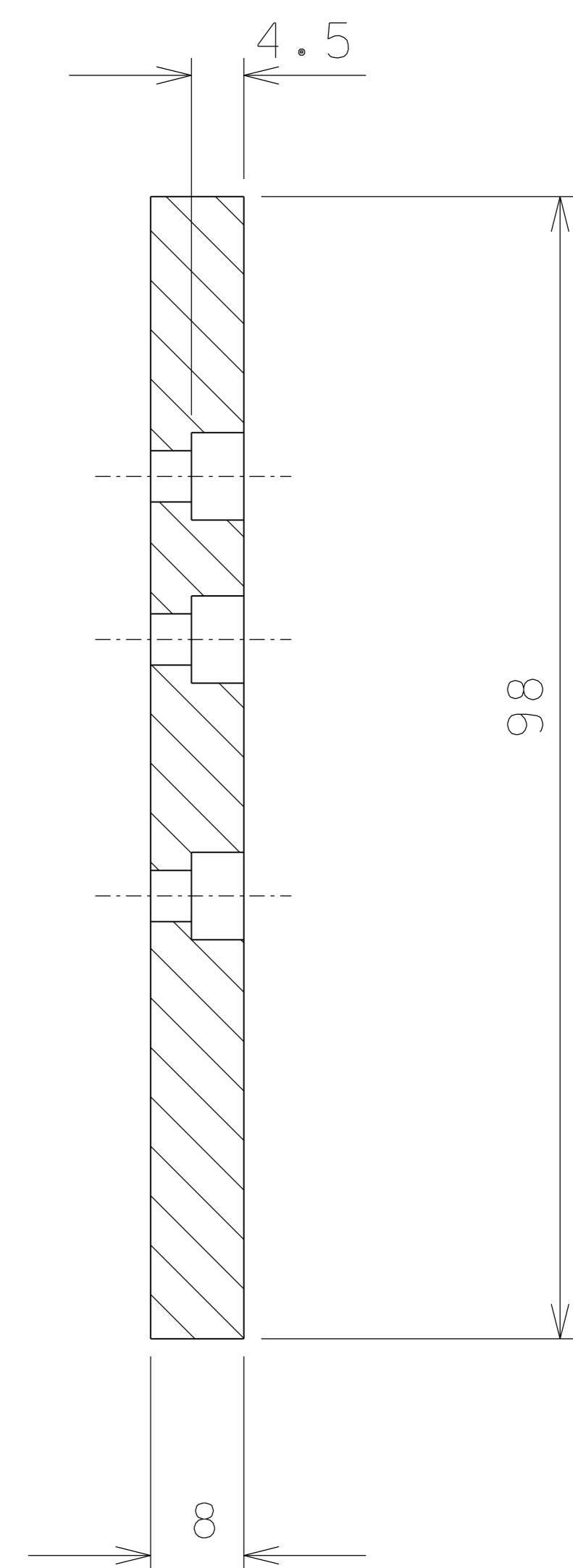
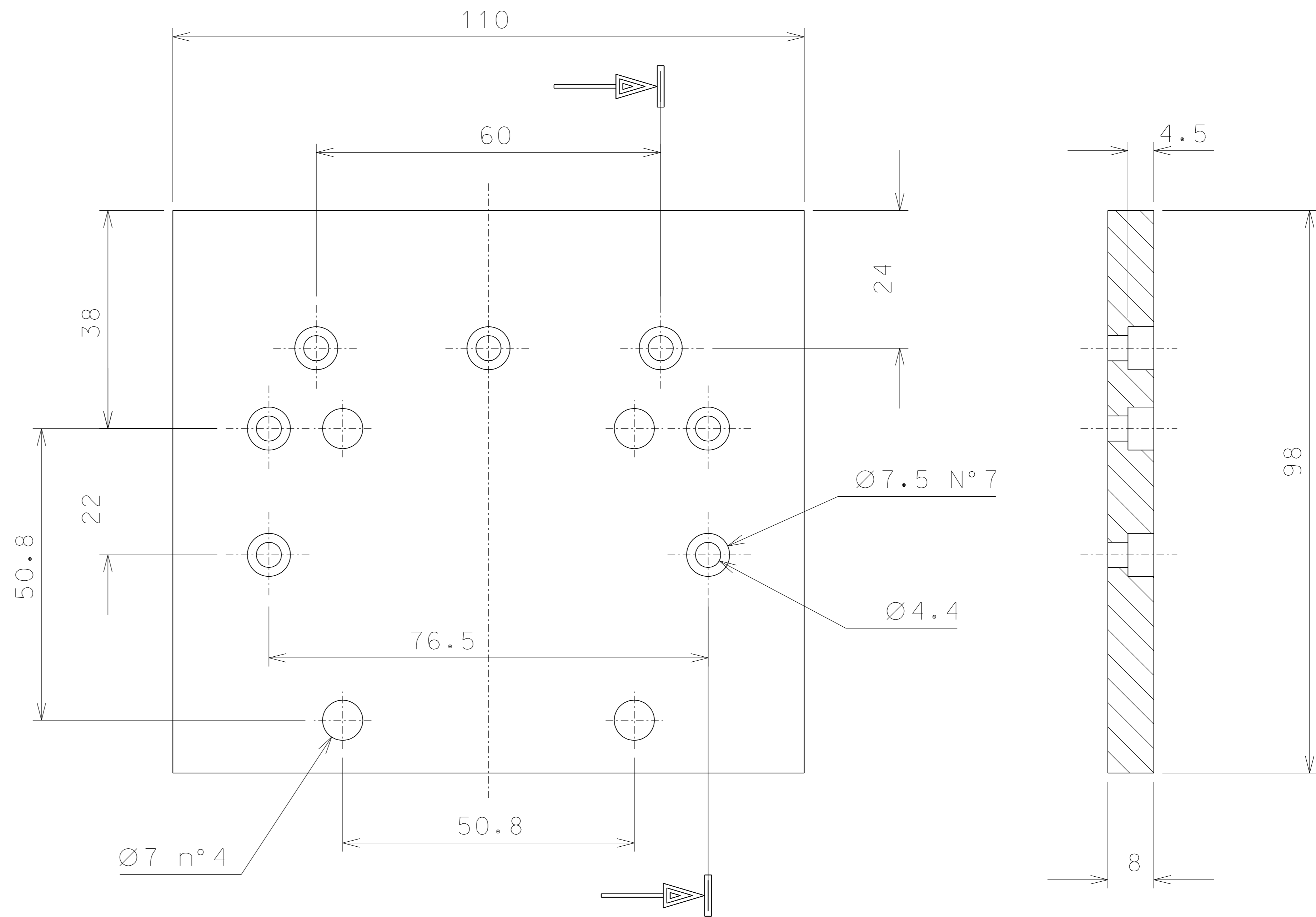
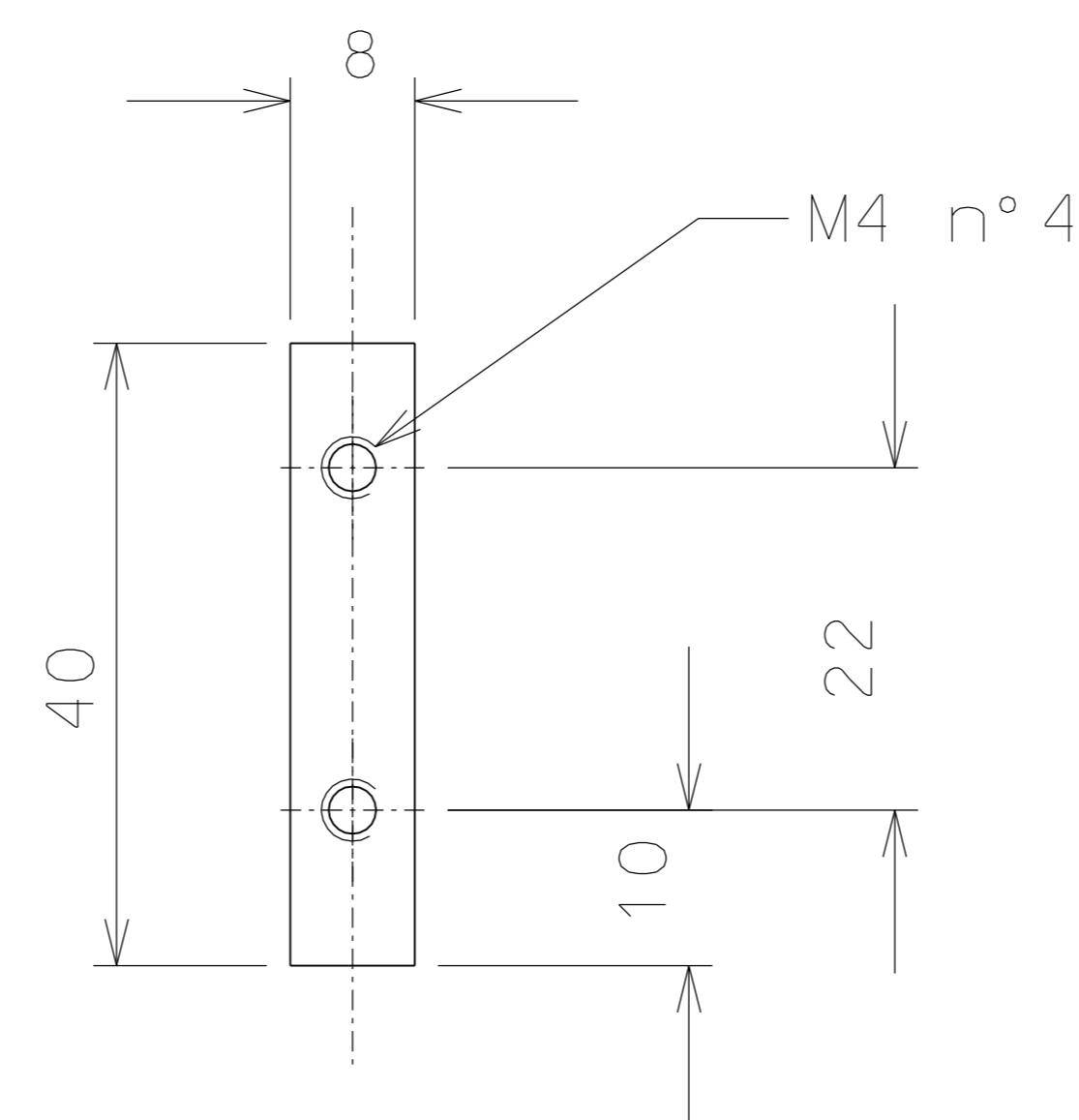
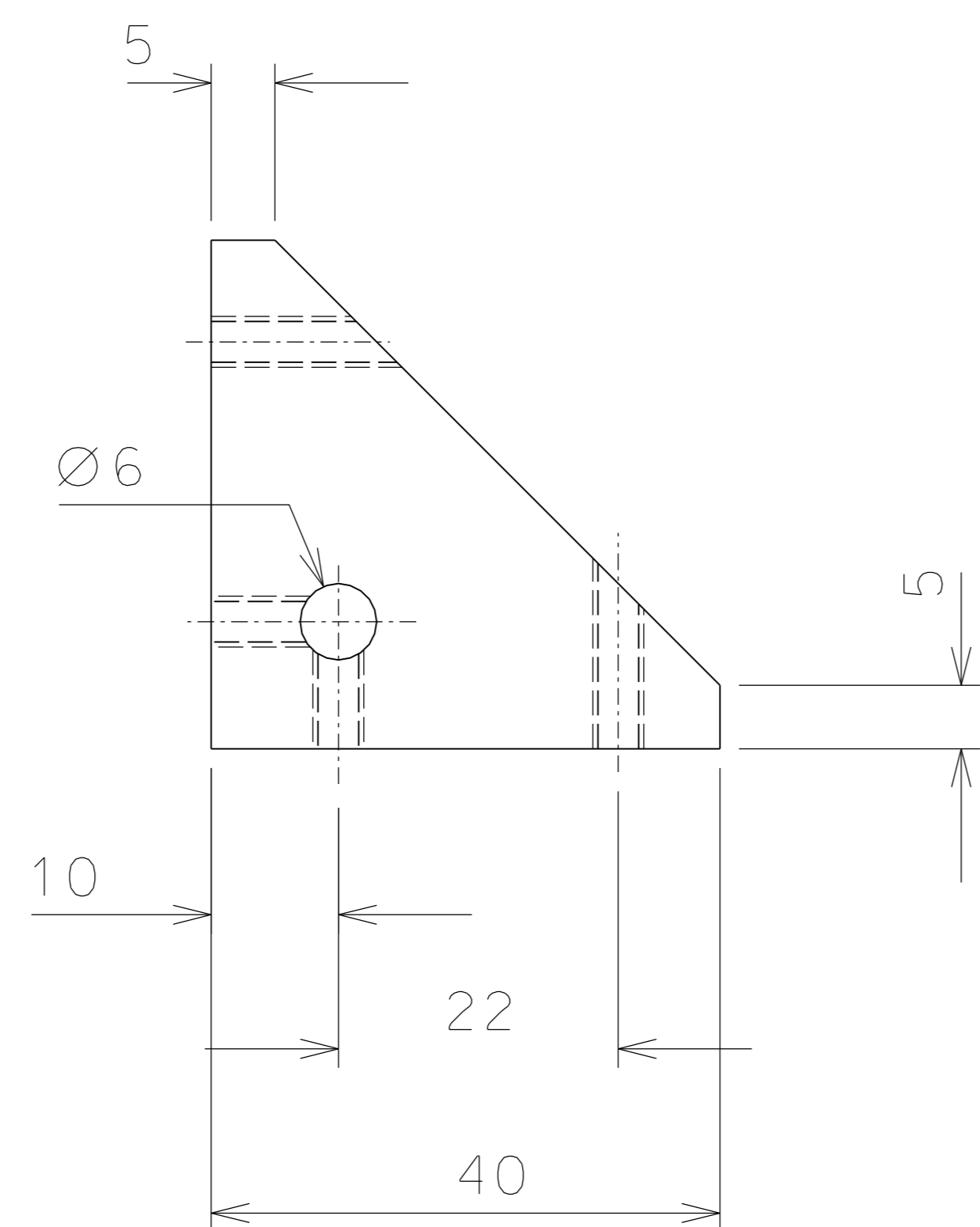
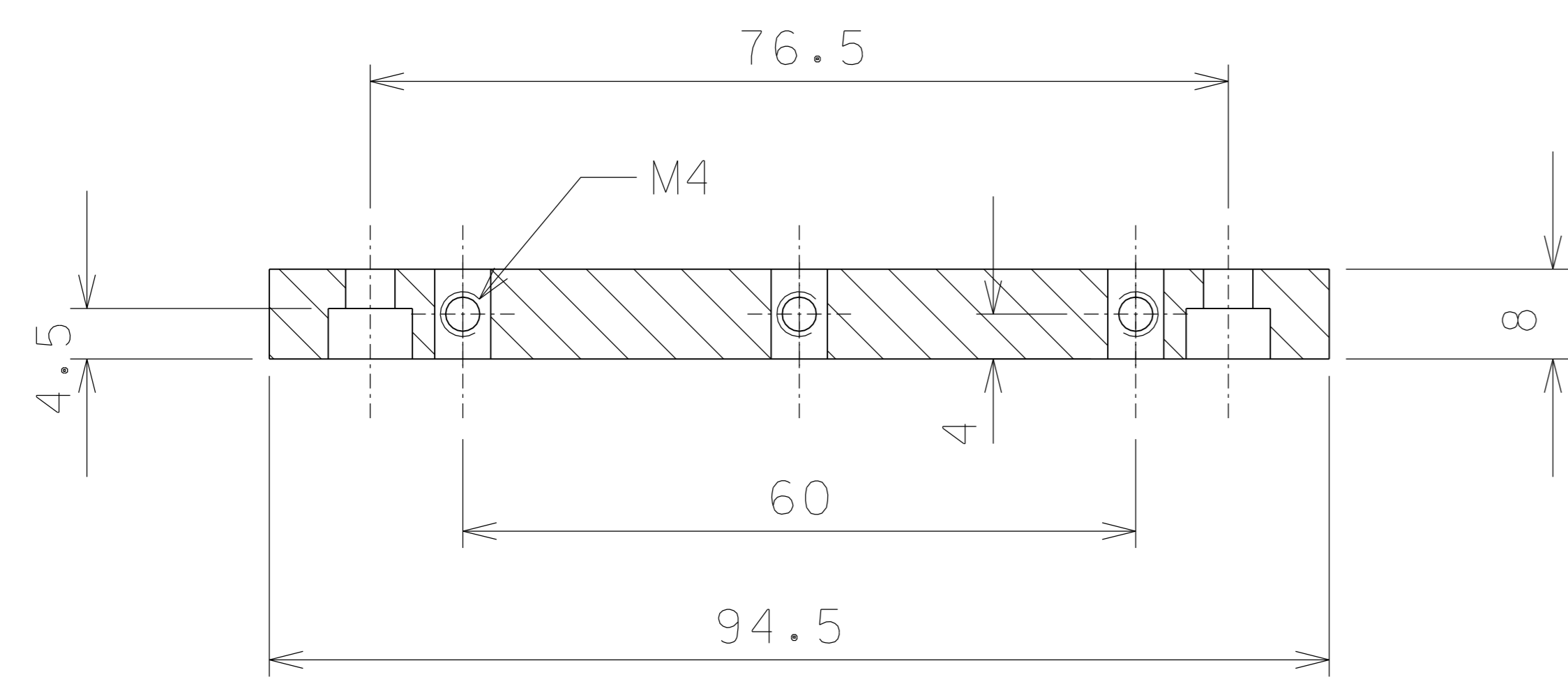
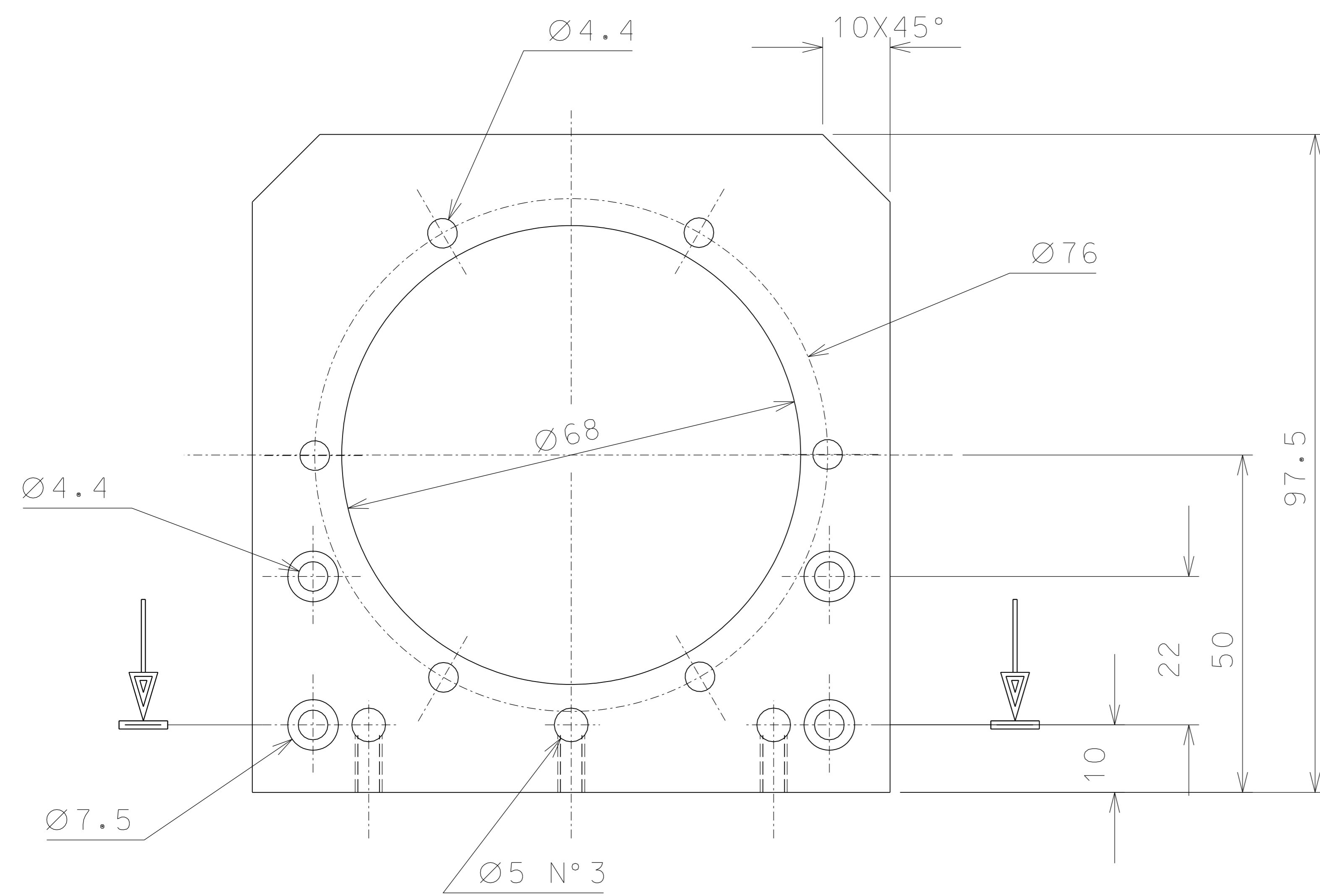
modifications							
ref.	note	date	signature				

76-77-78	socket head M4x10	8
76-77	socket head M4x10	3
71-77	socket head M4x10	6
detail	type	n° piec.
Screw's table		



ref.		note	date	signature	
modifications					
77	034	vertical plate			
76	034	base	78	034	reinforcement
ref.	draw.	added legend	ref.	draw.	added legend

	LIGO PROJECT		designed for R.De Salvo	
			draw. by PROMEC	
title MH INTERFEROMETER SUPPORT BASE		date 11-01-07	scale 1/2	
		ass. numb. MHI.033-00		
		replaces	A 3	
		draw. n°		



77

76

78

ref.	note	date	signature
modifications			
78	2	EN 6082	1/1
77	1	EN 6082	1/1
76	1	EN 6082	1/1
ref.	pieces	mat. and treatments	scale

General machining tolerances UNI 5307-63							
Dimensions	< 6	> 6-30	> 30-120	> 120-315	> 315-1000	> 1000-2000	> 2000-4000
linear Toll.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2
angular Toll.	± 1'	± 30'	± 20'	± 10' referred to the shortest side			

designed for	R.De Salvo		
draw. by	PROMECC		
date	11-01-07	scale	1/1
n° draw.	MH1.034-00		
replaces draw. n°			
detail from	033	A 2	

LIGO PROJECT
 MH INTERFEROMETER
 DETAILS BASE