

LIQUIfit CARSTICK®

Water and Beverage Applications Connection

Diameters
1/4, 3/8, 1/2
4, 6, 8, 10, 12



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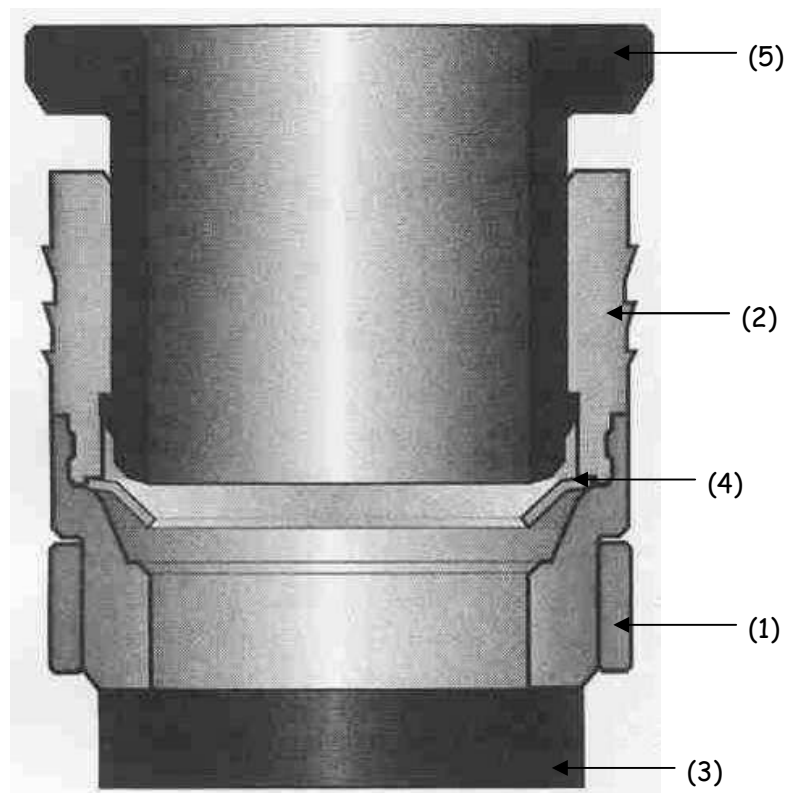
Appendix drawings

Date	Rev	Comments
18/09/09	1	General update
08/03/10	2	Metric
07/07/11	3	Update on drawings
09/09/11	4	Update on drawings Information for the direction of the cartridge in carstick tube

1. Product description

The Liquifit carsticks are composed of the following components:

- A polyamide protection sleeve (1)
- A brass retaining sleeve (2)
- An EPDM seal (3)
- A stainless steel gripping ring (4)
- A polyamide release button (5)



The Liquifit carsticks provides instant connection between the housing and the tubing.

The housing requires a dedicated cavity where the cartridge is pushed in. The tubing conforms to the water treatment market tubing specifications.

The Liquifit carsticks are available in different applicable tubing diameters.

This document provides process advices, available range information, and cavity dimensions according to material.

We deliver Liquifit carsticks in bags and cardboard boxes to protect them during shipment.

2. Applications

These products are suitable for beverage and drinking water (potable water) equipment and applications: The contact materials are FDA compliant as well as NSF-51 and NSF-61 C-HOT listed.

We strongly advise the use of the LEGRIS tube cutter. It gives a clean cut at right angles to the tubing axis.

We recommend you respect the tubing bend radius according to tubing material, diameter or applicable standards.

It is not necessary to add grease or oil to the tubing.

3. Specifications

Temperature range	Diameter		from 14°F to 104°F de -10°C à 40°C	Up to 150°F Jusqu'à 65°C	Up to 203°F Jusqu'à 95°C
	mm	inch			
Max Working pressure	4	5/32	230 psi 16 bar	145 psi 10 bar	60 psi 4 bar
	6	1/4	230 psi 16 bar	145 psi 10 bar	60 psi 4 bar
	8	5/16	230 psi 16 bar	145 psi 10 bar	60 psi 4 bar
	10	3/8	190 psi 13 bar	100 psi 7 bar	60 psi 4 bar
	12	1/2	160 psi 11 bar	100 psi 7 bar	60 psi 4 bar

4. Product handling and storage

We deliver the Liquifit carstick in plastic tubes and cardboard boxes. Outside the assembly area, we advise you handle and store the Liquifit carstick in their original packaging to limit contamination or risk of damage. We advise you keep the product in room temperature storage conditions (temperature 23°C and humidity rate 60% to 80%).

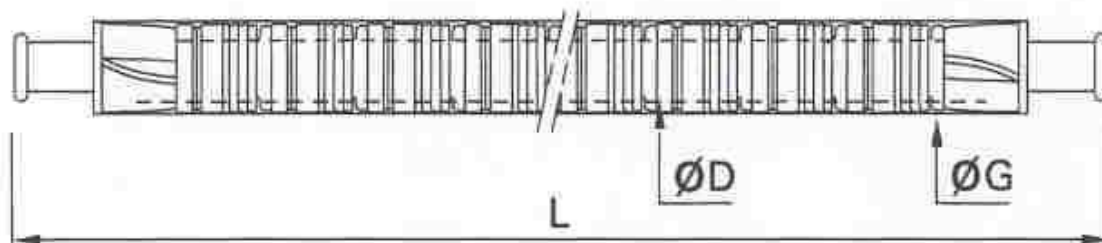
We advise you avoid impact during transport or stacking of cardboard boxes on pallets. We advise you transport and open the cardboard boxes with the LEGRIS logo visible on the top side.

During handling, we advise you avoid contact with the seals in order to avoid contamination. We advise you do not strain mechanically the protection sleeve that holds the seal.

After assembly, we advise that the final products be stored in closed bags and cardboard boxes.

✓ Tube « CARSTICK® »

LEGRIS proposes a conditioning made out of tube adapted to dimensions of our cartridges: 50 cartridges in the same direction per carstick.



φ D Cartridge	Reference LEGRIS	G	L
1/4	6300 56 00	.57 in	23.62 in
3/8	6300 60 00	.75 in	36.75 in
1/2	6300 62 00	29 mm	116 mm
4 mm	6300 04 00	10,3 mm	554 mm
6 mm	6300 06 00	14,5 mm	629 mm
8 mm	6300 08 00	15,25 mm	794 mm
10 mm	6300 10 00	19,5 mm	930 mm
12 mm	6300 12 00	21,3 mm	1038 mm

5. Product manipulation

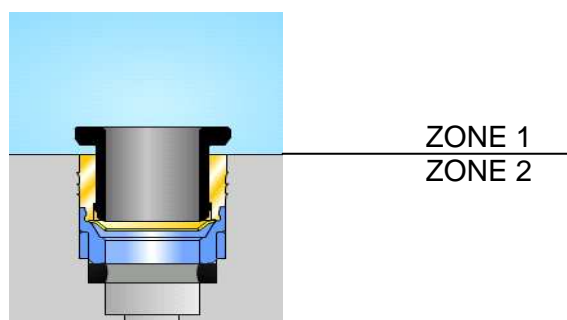
Customers can pick up or assemble the Liquifit carstick either manually or automatically.

We recommend you perform the handling, assembly, test and storage in a clean environment. Contaminants in product, such as particles, will lead to the product malfunction. If possible, the assembly will take place in a closed and pressurised room.

Preferably, we advise you clean the assembly equipment with a dedicated solution and you avoid the use of fluffy wipers. We recommend you wear an antistatic outfits.

After the assembly, we advise you store the final products in closed bags and cardboard boxes. For example, sealed plastic bags prevent the products from dust contamination.

Once the product is pressed in the housing, we identify two zones. Zone 2 is the limit where carstick components are inside the housing.



Cavities description

The “liquifit carsticks” adapt only to LEGRIS dedicated cavities. The cavity dimensions depend on the housing material and the required tubing size.

To ensure the technical performances, we strongly advise you follow the referenced drawings, as well as you control the framed sizes with the adapted equipment.

D	CARSTICK® cartridge	Cavity	Drawing N°for cavity
1/4	6300 56 00	PA cavity 0% to 30 % glass fiber	44507-30
		Aluminum AU4G cavity anodized or not	44507-31
		CuZn40Pb3 nickel plated or not	44507-32
		Unfilled Polypropylene	44507-37
3/8	6300 60 00	PA cavity 0% to 30 % glass fiber	44509-30
		Aluminum AU4G cavity anodized or not	44509-31
		CuZn40Pb3 nickel plated or not	44509-32
		Unfilled Polypropylene	44509-36
1/2	6300 62 00	Unfilled Polypropylene	44513-34
4 mm	6300 04 00	PA cavity 0% to 30 % glass fiber	44504-30
		Aluminum AU4G cavity anodized or not	44504-31
		CuZn40Pb3 nickel plated or not	44504-32
6 mm	6300 06 00	PA cavity 0% to 30 % glass fiber	44506-30
		Aluminum AU4G cavity anodized or not	44506-31
		CuZn40Pb3 nickel plated or not	44506-32
8 mm	6300 08 00	PA cavity 0% to 30 % glass fiber	44508-30
		Aluminum AU4G cavity anodized or not	44508-31
		CuZn40Pb3 nickel plated or not	44508-32
10 mm	6300 10 00	PA cavity 0% to 30 % glass fiber	44510-30
		Aluminum AU4G cavity anodized or not	44510-31
		CuZn40Pb3 nickel plated or not	44510-32
12 mm	6300 12 00	PA cavity 0% to 30 % glass fiber	44512-30
		Aluminum AU4G cavity anodized or not	44512-31
		CuZn40Pb3 nickel plated or not	44512-32

See drawings in appendix.

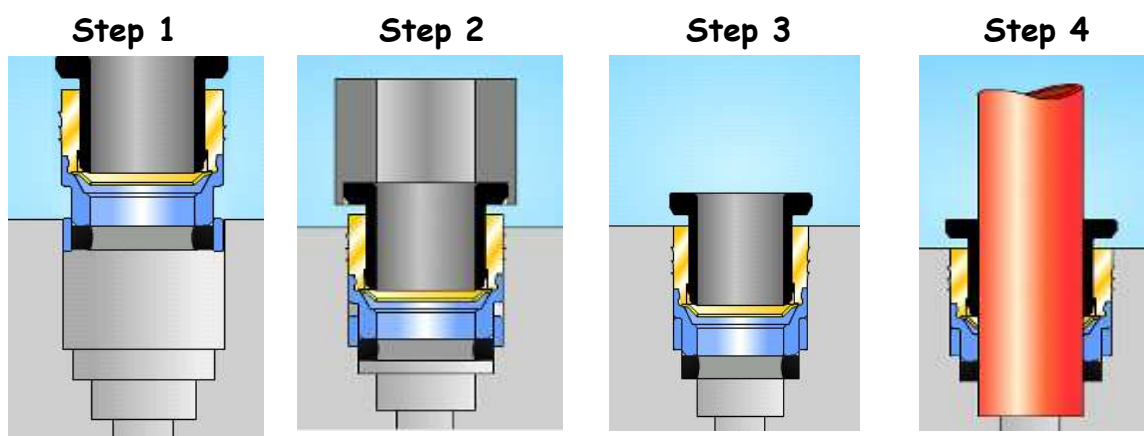
6. CARSTICK® assembly

During the assembly, the tool and the cartridge must be in line (coaxial).

The assembly movement (press) is linear.

The movement stops when the pressing tool abuts on housing.

We strongly advise you respect the insertion tool drawings given on the next page.



Step 1: Cartridge introduction, followed by the cartridge centring in the housing cavity.

Step 2: Assembly (press) with an adapted tool. The seal protection breaks. The greased seal slides inside its groove.

Step 3: The insertion is completed

Step 4: Tubing connection.

We strongly advise you perform the handling, assembly, testing and storage in a clean environment. Contaminants in the product, such as particles, may lead to product misapplication.

It is preferable to clean assembly equipment with a dedicated product and to avoid fluffy wipers. We also advise you wear an anti-static outfits.

If possible, assembly should take place in a closed and pressurised room or equipment.

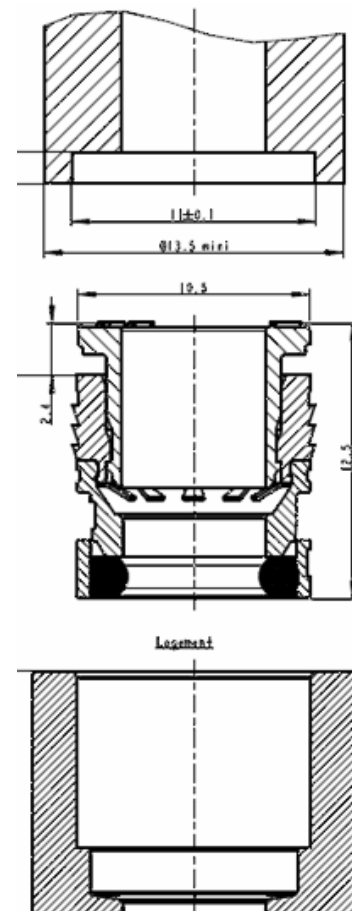
After assembly, products should be stored in a clean environment to prevent dust contaminating the products e.g. a sealed plastic bag.

Assembly Tool

D	References	D1 mm	D2 mm	D3 mm	E1 mm	A / A' mm
1/4	6300 56 00	11 +/- 0,1	13,5 mini	6,5 maxi	1,4 + 0/- 0,1	+ 0,15 -0,05
3/8	6300 60 00	16 +/- 0,1	19 mini	10 maxi	1,7 + 0,1/- 0	+ 0,15 -0,05
1/2	6300 62 00	22,1 +/- 0,1	25 mini	12,2 maxi	1,9 + 0,1/- 0	+ 0,15 -0,05
4	6300 04 00	8,5 +/- 0,1	11 mini	4 maxi	1,4 + 0/- 0,1	+ 0,15 -0,15
6	6300 06 00	10,5 +/- 0,1	13 mini	6 maxi	1,4 + 0/- 0,1	+ 0,15 -0,15
8	6300 08 00	13,5 +/- 0,1	15,5 mini	8 maxi	1,7 + 0/- 0,1	+ 0,15 -0,15
10	6300 10 00	16 +/- 0,1	19 mini	10 maxi	1,7 + 0,1/- 0	+ 0,1 -0,1
12	6300 12 00	19 +/- 0,1	21 mini	12 maxi	1,8 + 0,1/- 0	+ 0,1 -0,1

The admitted gap between A / A' is achieved by adjusting the dimension « E1 » of the assembly tool. Failure to cope with the tool or the drawing tolerances may lead to the product misapplication.

For alternative solutions concerning the CARSTICK® assembly, please contact the technical department.



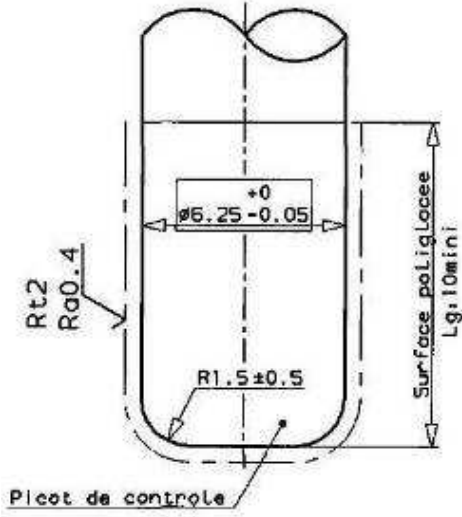
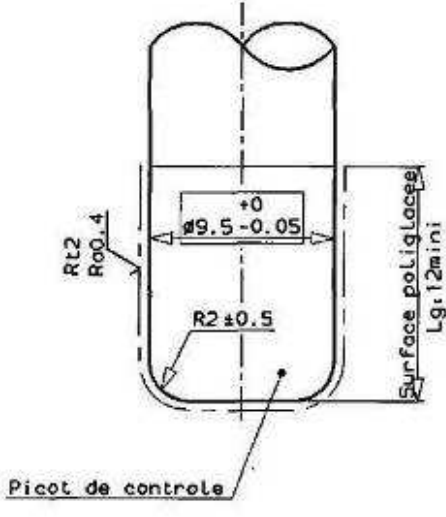
7. Leak test

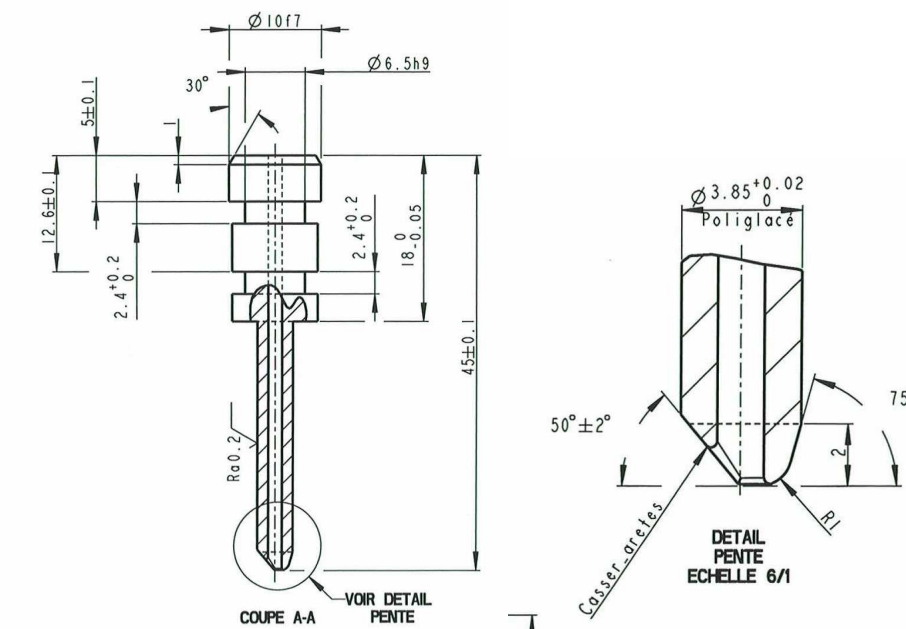
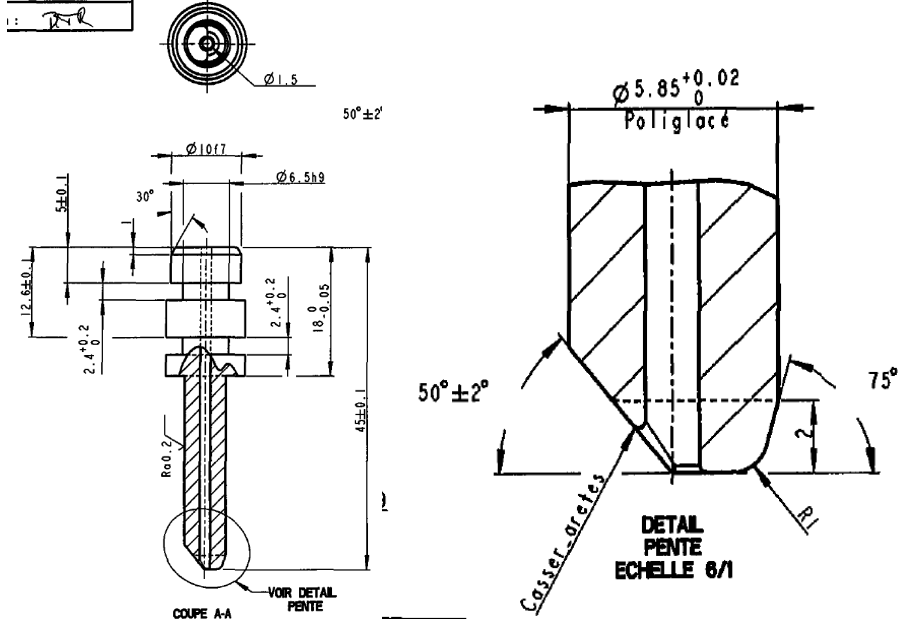
In order to validate the product connection and guarantee its air tightness, we recommend you carry out an air tightness test with a specific gauge. The gauge and the carstick must be in line during the insertion to avoid any damage on the gripping ring leading to product malfunction.

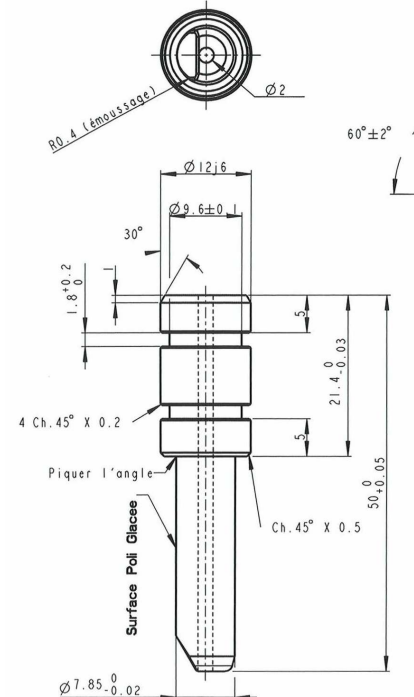
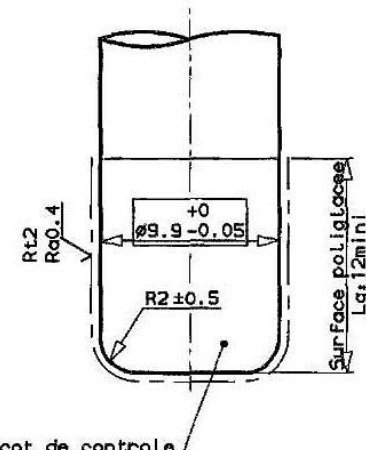
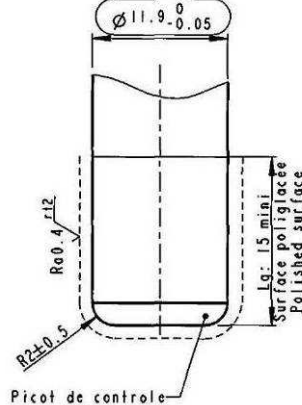
You may use a specific insertion tool equipped with a force device to prevent the destruction of a component.

Material: 35 NCD 16

Treatment: Quenching and Hardening 54 HRC

<p>1/4</p>	
<p>3/8</p>	

Diameter	
<p>4 mm</p>	 <p>TRETEMENT: trempé revenu 54 HR MATERIAL : Z30 C13</p> <p>Polyglacé : Ra = 0,05 preferably</p>
<p>6 mm</p>	 <p>TRETEMENT: trempé revenu 54 HR MATERIAL : Z30 C13</p> <p>Polyglacé : Ra = 0,05 preferably</p>

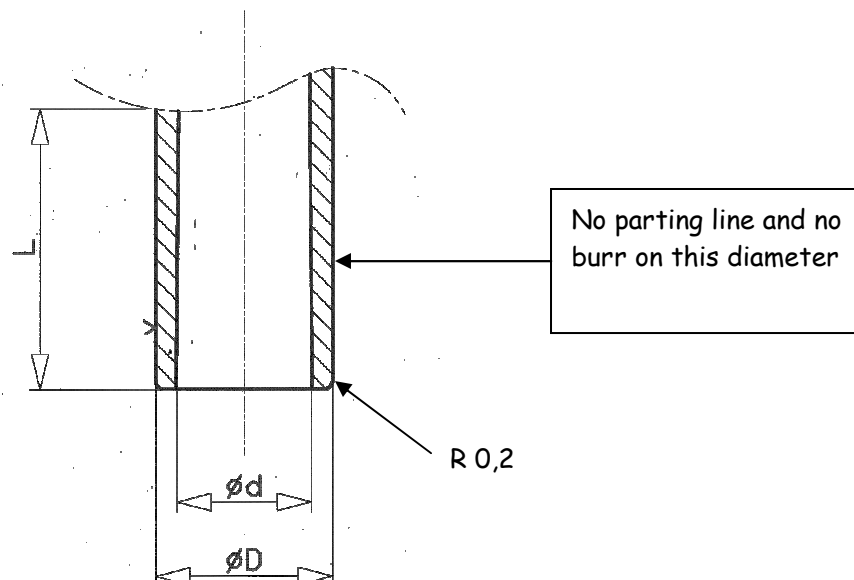
<p>8 mm</p>	 <p>TRETEMENT: 200 Kg/mm² MATERIAL : Z160CDV12</p> <p>ECHELLE 4/1</p> <p>Polyglage : Ra = 0,05 preferably</p>
<p>10 mm</p>	<p>Material : 35 NCD 16 Treatment : Quenching and Hardening 54 HRC</p>  <p>Picot de controle</p>
<p>12 mm</p>	<p>Material : 35 NCD 16 Treatment : Quenching and Hardening 54 HRC</p>  <p>Picot de controle Control pin</p>

8. Technical tubes and plastic stems

LIQUIfit® CARSTICK® requires the use of LEGRIS Advanced PE tubing.

The plastic plug must comply with the dimensions below.

	ϕD mm	ϕd mm	L mm (minimum)	Useful materials
1/4	$6,35^{+0,05}_{-0,1}$	$5 \pm 0,1$	19,6	PA 11 30% Ra = 0,4
3/8	$9,5^{+0,05}_{-0,1}$	$7,5 \pm 0,07$	24,5	
1/2	$12,7^{+0,05}_{-0,1}$	$9,5 \pm 0,07$	28,5	
D 4	$4^{+0,05}_{-0,1}$	$3 \pm 0,1$	15,5	
D 6	$6^{+0,05}_{-0,1}$	$4,6 \pm 0,1$	23	
D 8	$8^{+0,05}_{-0,1}$	$6,6 \pm 0,1$	23	
D 10	$10^{+0,05}_{-0,1}$	$8,4 \pm 0,1$	24,5	
D 12	$12^{+0,05}_{-0,1}$	$10,2 \pm 0,1$	27,1	



It is necessary to add a groove for the metallic stems or tubing to insure tubing connection. Please contact the Technical Department for the detailed drawings.

9. Complementary range

Please check catalogue

10. Connection / disconnection of the tubing

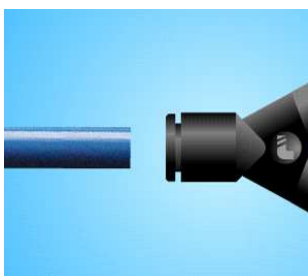
Connect tubing and the liquifit carstick manually and in line.

You can mark the tubing to insure connection.

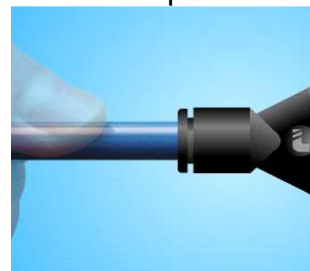
You can pull the tubing to confirm the connection (2). Do not add oil or grease.

CONNECTION

Step 1



Step 2



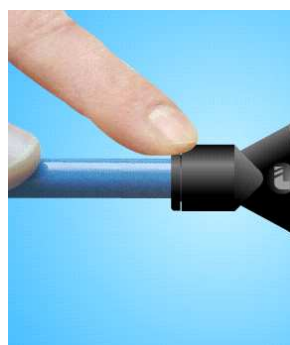
To disconnect, push the release button manually (1), then pull the tubing in line with the Liquifit carstick while maintaining the release button pressed (2 and 3).

DISCONNECTION

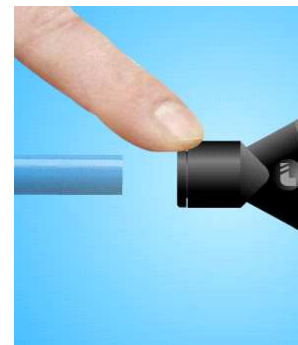
Step 1



Step 2



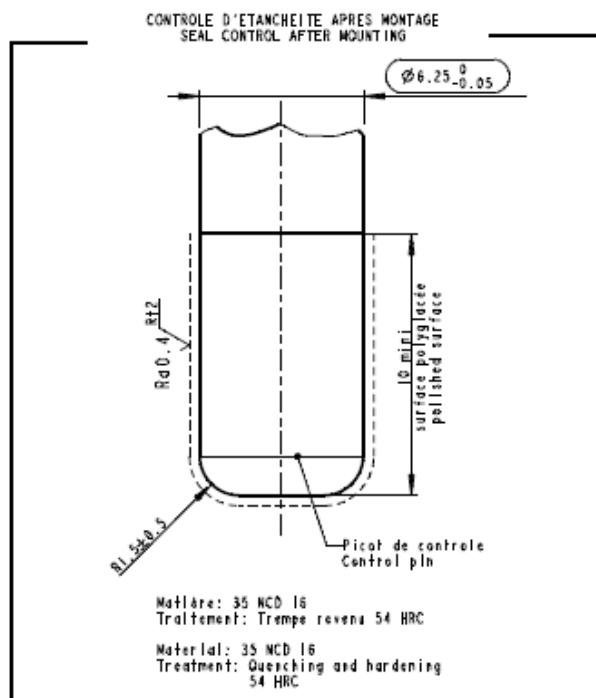
Step 3



CARTRIDGE CARSTICK[®] & HOUSING

REFERENCES:

Cartridge 1/4	6300 56 00
Nylon housing 0% to 30 % glass fiber	44507-30
Aluminum housing anodized or not	44507-31
CuZn40Pb3 nickel plated or not	44507-32
Unfilled Polypropylene	44507-37



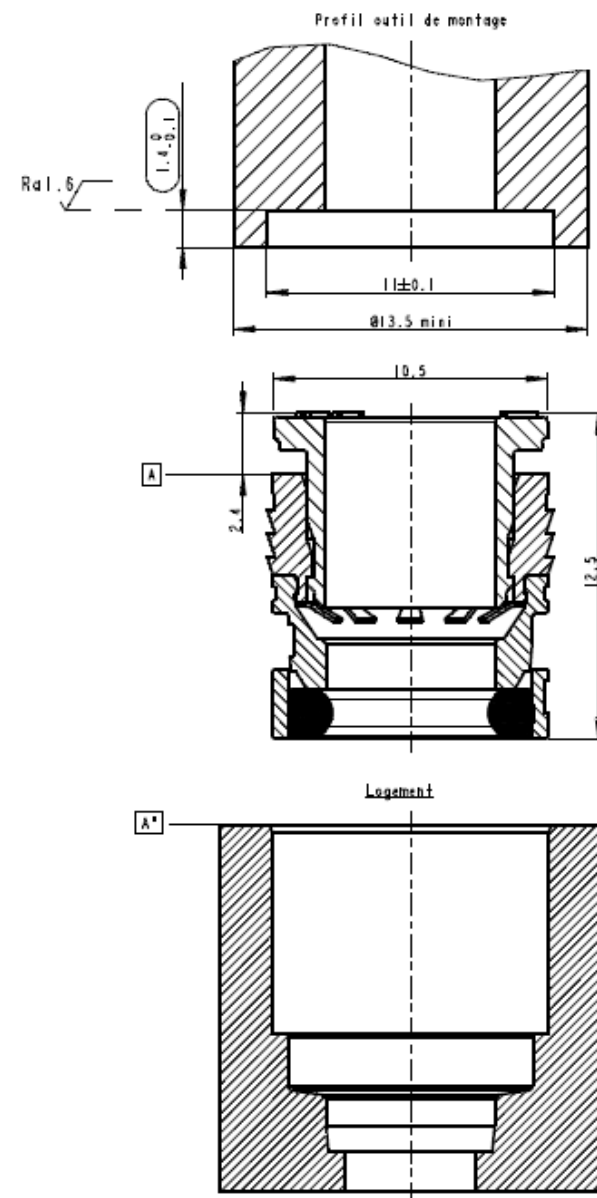
Logement Hole	Reference plan Drawing part number
Nylon 0 à 30% FV/GF Nylon 0 to 30% FV/GF	44507-30
Aluminium anodisé ou non Anodized aluminium or not	44507-31
CuZn40Pb3 Niquel ou non CuZn40Pb3 nickel-plated or not	44507-32
Polypropylene 0% FV/GF	44507-37

ATTENTION:

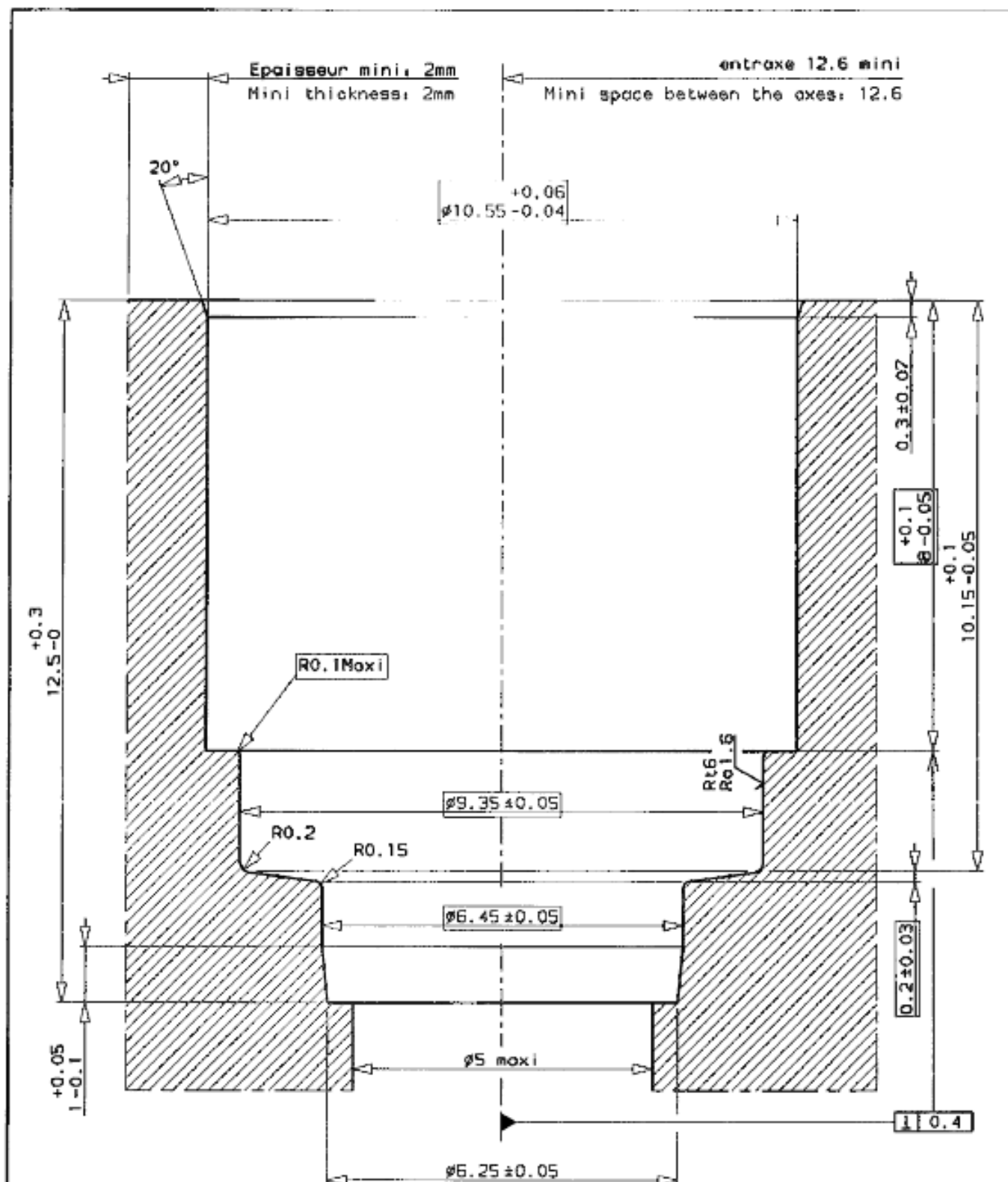
Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors, respecter A et A' sur le même plan. Décalage admis +0.15/-0.05 après emmanchement. Tout décalage supérieur à la tolérance, entraînerait un dysfonctionnement du produit.

BE CAREFUL:

If this profile of tool can't be used for the assembly of the cartridge, then, respect A and A' on the same level. Acceptable differences +0.15/-0.05 after handling. All superior differences compare to the tolerance will mean a dysfunctioning of product.



COMMERCIAL REFERENCE				A3				DEVELOPMENT			
6300-56-00				SCALE: 5/1 TREATMENT: SHEET: 1/3 MATERIAL:				-			
08-03-08	addition of PP hole	C	PNT	14, rue de Paris 910411 91041 RENNES Cedex 2 FRANCE				DESIGNED YAG DATE 29-Jan-08			
01-08-08	Modification of the reference of the part -> Removal of the "M" - Update of the BOM	A	CCD	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED				CARTOUCHE Ø1/4", PROFIL OUTIL DE MONTAGE ET LOGEMENTS CARTRIDGES Ø1/4", TOOL FOR MOUNTING AND HOLE DIAGRAMS			
DATE	DESCRIPTION DES MODIFICATIONS	IND	ETU	Ra: ANG: DIA: RAD: LENG:				APPROVED			
MODIFICATION VERIFIED				legris				-V300-56-00C			
This document and the data disclosed herein is not to be reproduced, used, or disclosed in whole or in part to anyone without the permission of LEGRIS				Updated: 05/02/02				Per: 906			
				Archived: 08/02/08				Reference: 08022008			
				Index: 1							



REFERENCE COMMERCIALE

-

TOLERANCES GENERALES

Ro 3.2 ANG: $\pm 1^\circ$ DIA: -
 RAY: ± 0.05 LONG: -

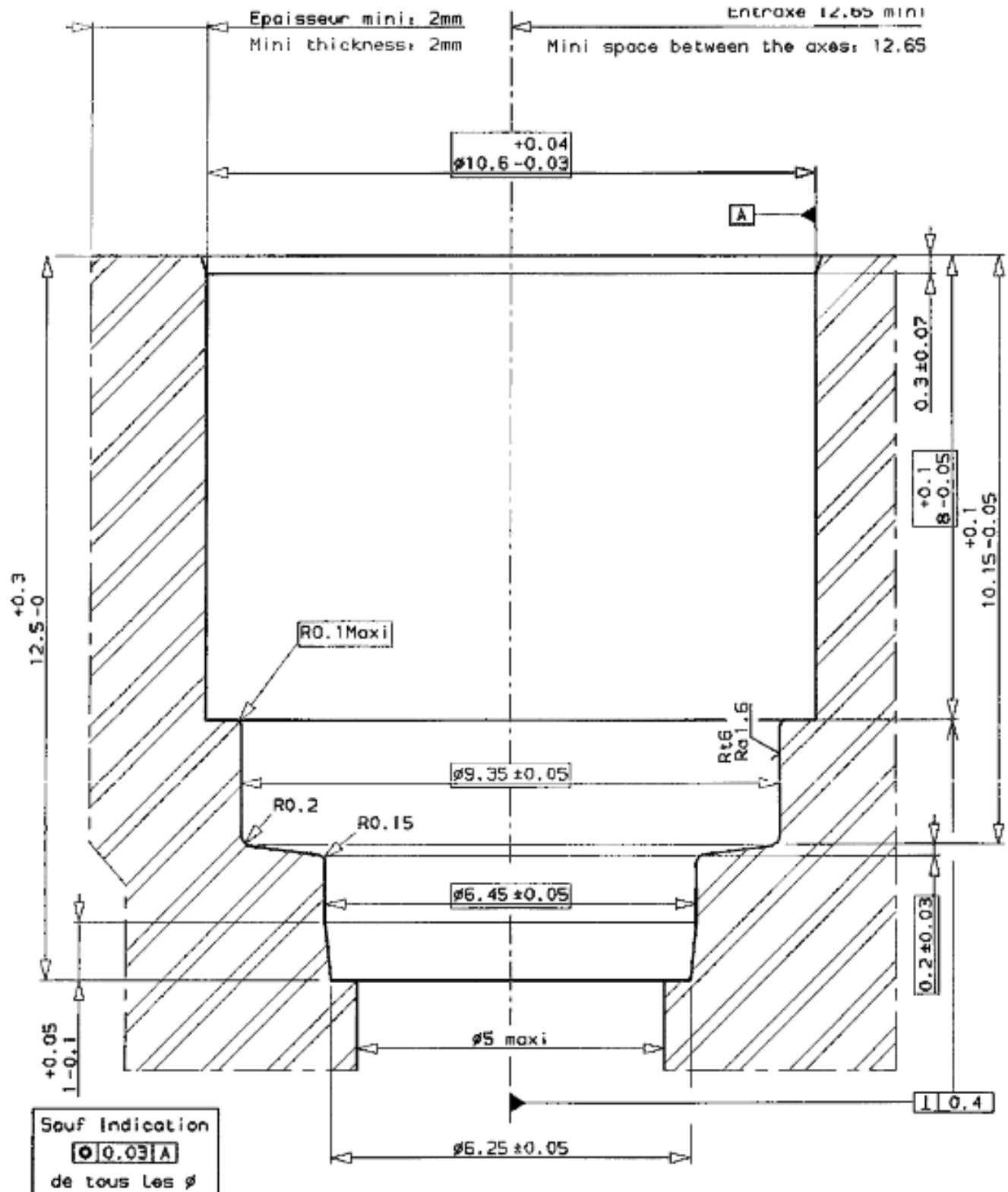
DATE	DESCRIPTION DES MODIFICATIONS	IND	ETU
A4	ECH: 10 TRAITEMENT: - DOC: 2/2 MATIERE: /MATERIAL: Nylon 0 à 30%FV / Nylon 0 to 30%GF		

DEVIS
 4891

Llegris 74 rue de Paris 35014 RENNES Cedex		ETUDE BBC VISA Yec	DATE 10-06-97	Logement Plastique pour cartouche $\phi 1/4"$ Plastic Cavity for Cartridges $\phi 1/4"$	44507-30	-
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Mise à jour: 08/12/92	Par: JNH	Archivage: REBE	Reference: BED 9207	Indice: -		

Epaisseur mini: 2mm
Mini thickness: 2mm

Mini space between the axes: 12.65



Sauf Indication
 $\phi 0.03 \text{ [A]}$
 de tous les ϕ

REFERENCE COMMERCIALE

-

TOLERANCES GENERALES

Re 3.2 ANG: $\pm 1^\circ$ DIA: -
 RAY: ± 0.05 LONG: -

16-07-98 Rajout concentricite de 0.03 par rapport a A

01 BBC

DATE DESCRIPTION DES MODIFICATIONS

IND ETU

A4 ECH: 10 TRAITEMENT: /TREATING: Brut d'usage ou anodise / Anodized or not

DEVIS

DOC: 2/2 MATIERE: /MATERIAL: Aluminium

4891

legris

74 rue de Paris 35014 RENNES Cedex

ETUDE
BBC
VISA
BES

DATE
10-06-97

Logement Aluminium Pour Cartouche $\phi 1/4"$
 Aluminium Cavity For Cartridge $\phi 1/4"$

44507-31

01

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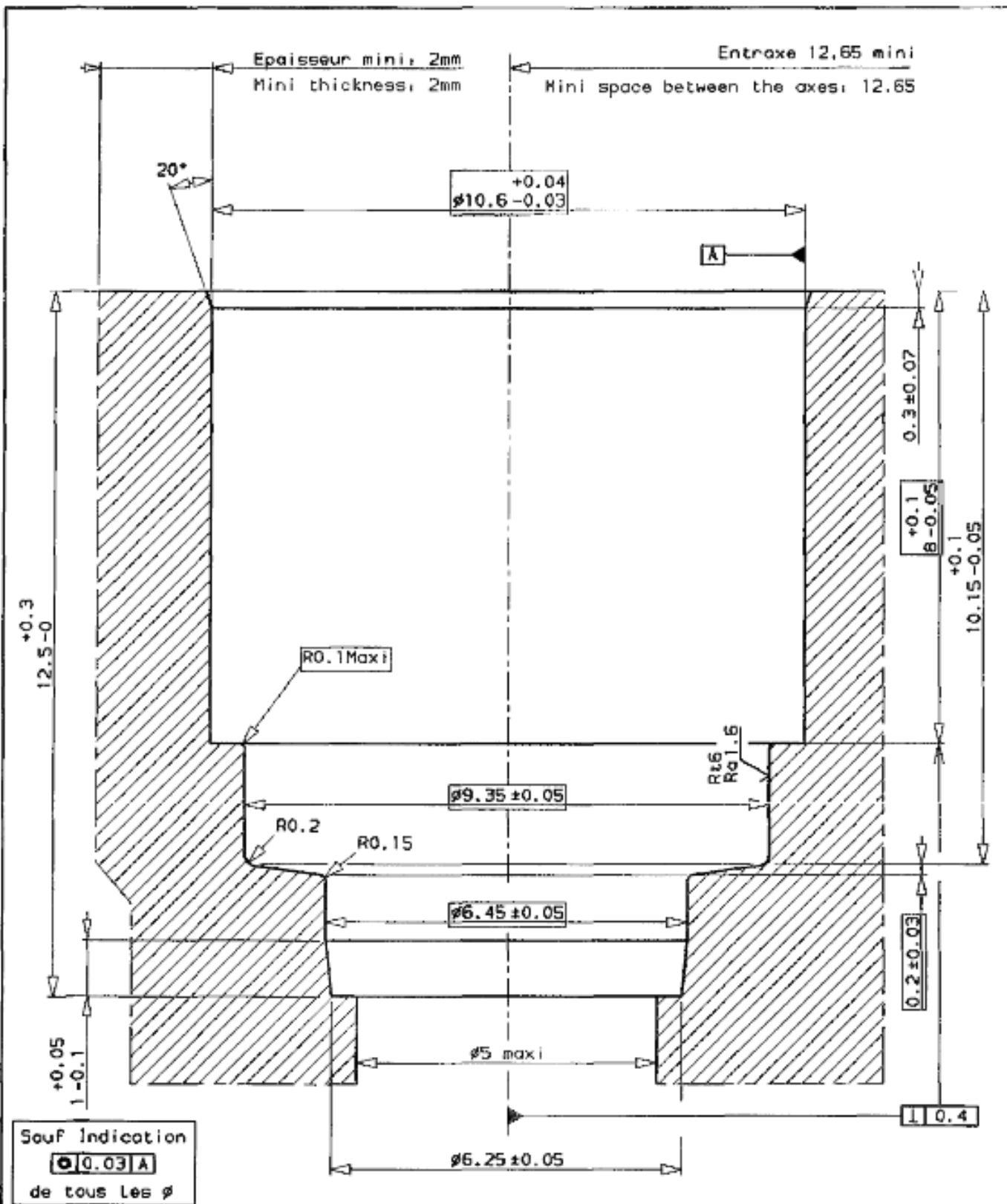
Mise a jour: 09/12/92

Par: JNN

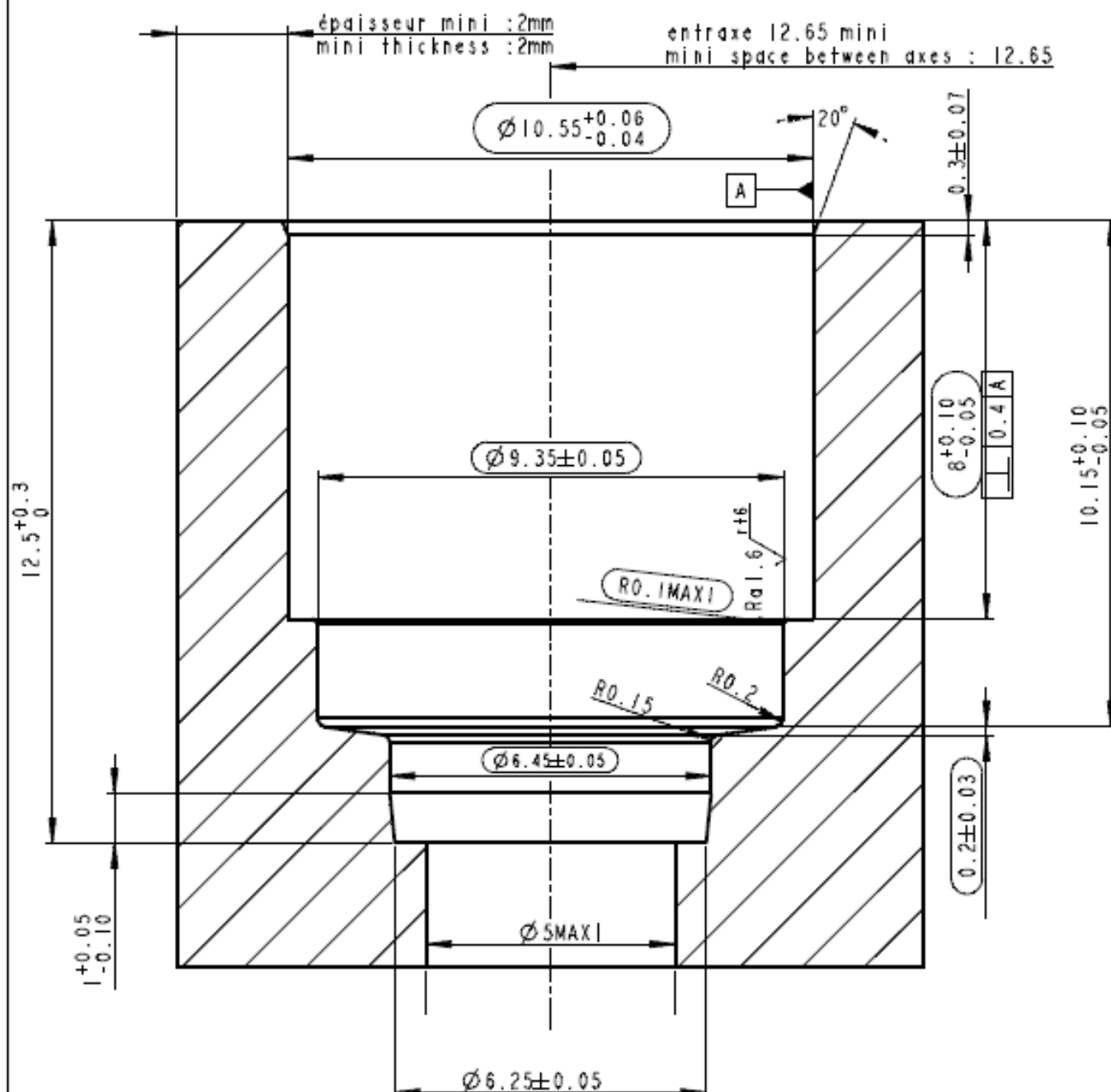
Archivage: REBE

Reference: BED 9207

Indices: -



		REFERENCE COMMERCIALE	
		-	
		TOLERANCES GENERALES	
16-01-98	Rajout concentricite de 0.03 par rapport a A	01 BBC	Re 3.2 ANG: ±1° DIA: - RAY: ±0.05 LONG: -
DATE	DESCRIPTION DES MODIFICATIONS	IND ETU	
A4	ECH: 10 TRAITEMENT: /TREATING: Nickelé ou non / Nickel Plating or not	DEVIS 4891	
	DOC: 2/2 MATIERE: /MATERIAL: Laiton de Decolletage / Brass of Screw-cutting		
		ETUDE DATE 07-07-97 Logement Laiton pour Cartouche $\phi 1/4"$ Brass cavity for Cartridge $\phi 1/4"$	
74 rue de Paris 35014 RENNES Cedex		44507-32	
Les informations contenues dans ce document demeurent propriété exclusive de la société LLEGRIS et ne doivent pas être divulguées à des tiers sans l'accord écrit de la société.		01	
Mise à jour: 09/12/92		Per: JNM	Archivage: REBE
		Reference: BE09207	
		Indice: -	



Unless otherwise
mentioned

0.03 A
all \varnothing +

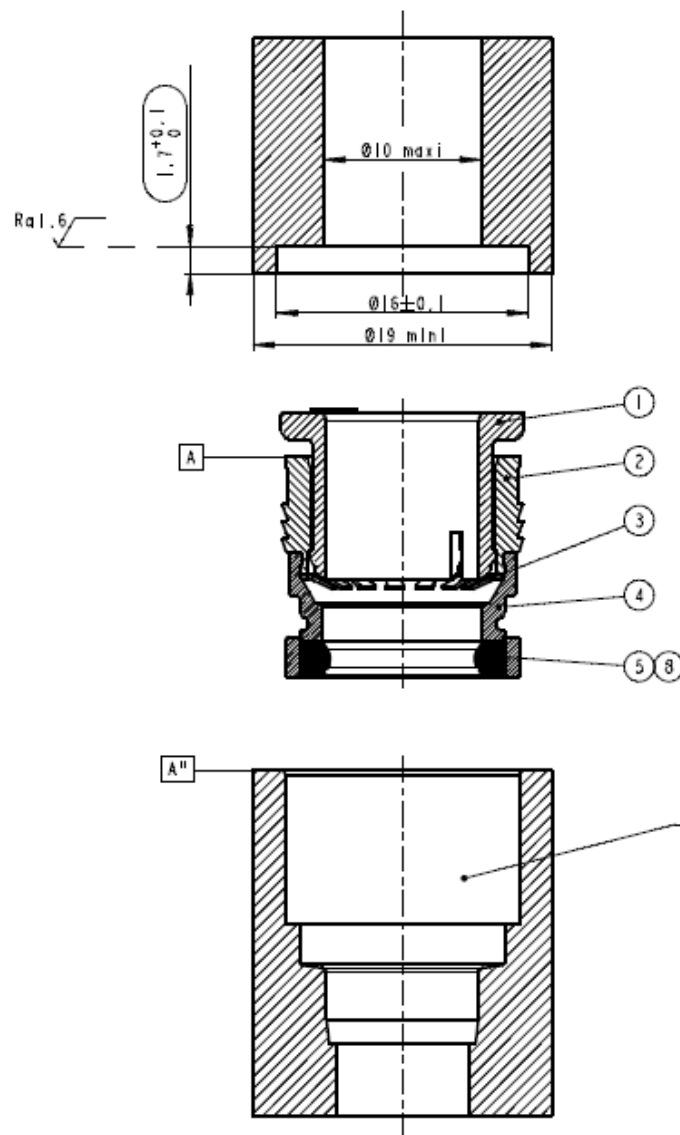
WEIGHT (g): 0.000		VOLUME (cm ³): 0.000		AREA (dm ²): 0.000		44507-37	
COMPONENT ACCEPTANCE ACCORDING TO BES0601						SCI :	
						SC :	
GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED							
Ra 3.2 ANG: $\pm 1^\circ$ DIA : RAD: ± 0.05 LENG:							
DATE	DESCRIPTION OF MODIFICATIONS				IND	ENG	G
A4	SCALE: 8/1	TREATMENT:					DEVELOPMENT
	SHEET: 1/2	MATERIAL : PP non chargé					
34, rue de Paris BP10411 35104 RENNES Cedex 7 FRANCE		DESIGNED PNT	DATE 30-Jun-08	logement PP carstick 1/4" PP cavity for carstick 1/4"			
legris		APPROVED	-44507-37-				
VERIFIED							
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BES020IRE	
Index : 1							

CARTRIDGE CARSTICK® & HOUSING

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Aluminum housing anodized or not	44509-31
CuZn40Pb3 nickel plated or not	44509-32
Unfilled Polypropylene	44509-36

Profil outil de montage
Diagram of tool for mounting



ATTENTION:

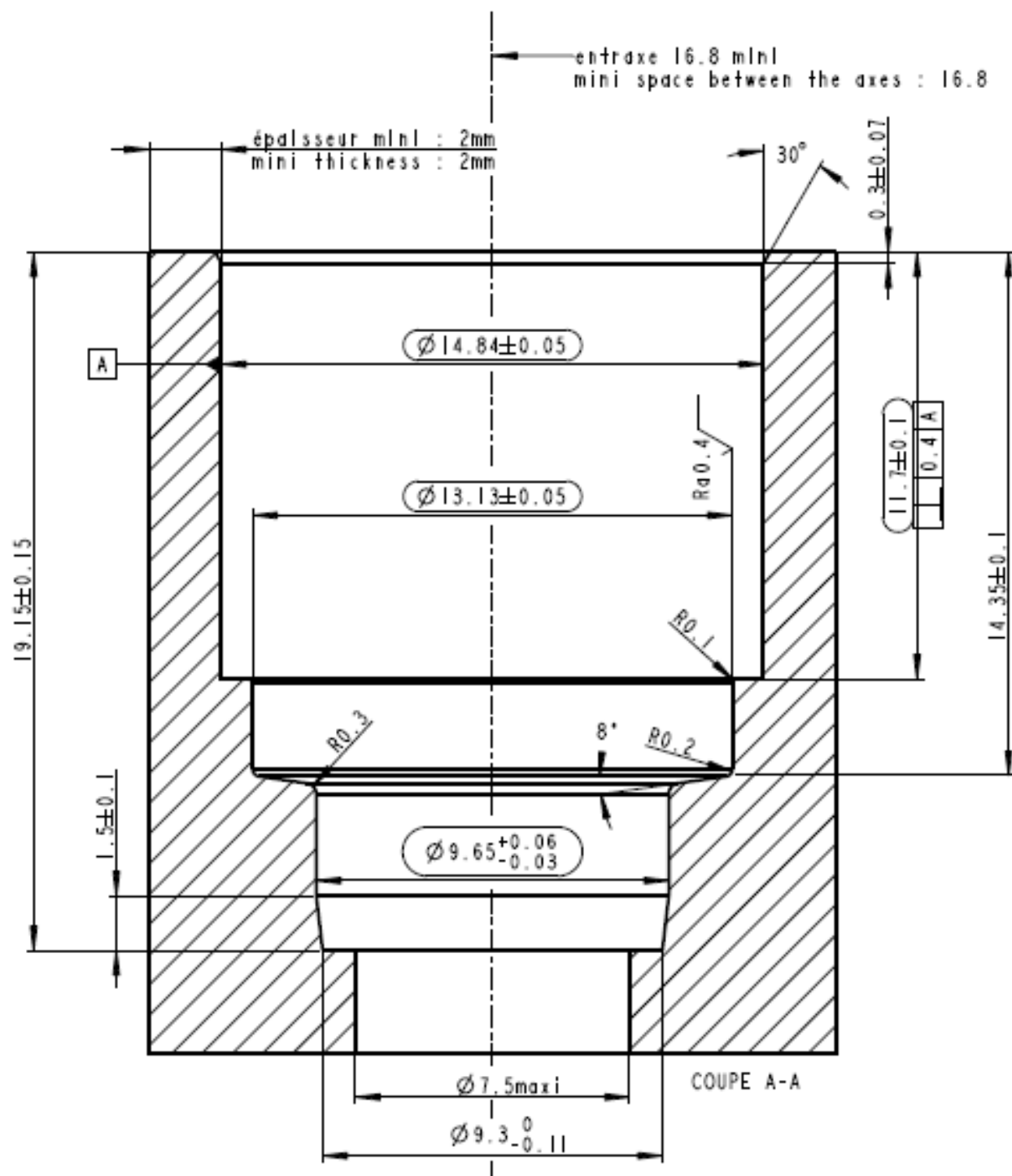
Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors, respecter A et A' sur le même plan. Décalage admis +0.15/-0.05 après emmanchement. Tout décalage supérieur à la tolérance, entraînerait un dysfonctionnement du produit.

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Logement Hole	Reference plan Drawing part number
Nylon 0 à 30% FV/GF Nylon 0 to 30% FV/GF	44509-30
Aluminium anodisé ou non Anodized aluminium or not	44509-31
CuZn40Pb3 Nickèle ou non CuZn40Pb3 nickel-plated or not	44509-32
Polypropylene 0% FV/GF	44509-36

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COMMERCIAL REFERENCE

GENERAL TOLERANCES
DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

12-11-09 Update of the dimensions, of the general tolerances and of the material description.

A CDS Ra 0.8 ANG: ±1° DIA : NPT 58000

DATE DESCRIPTION OF MODIFICATIONS

IND ENG G RAD: ±0.05 LENG: Class P

A4

SCALE: 6/1

TRETEMENT:

DEVELOPMENT

SHEET: 1/1

MATERIAL : Polyamide 6.6 0 to 30% GF

74, rue de Paris
BP1041
35704 RENNES Cedex 7
FRANCE

DESIGNED

BBC

DATE

07-11-97

APPROVED

LOGEMENT PLASTIQUE POUR CARTOUCHE LF3000 Ø3/8
PLASTIC HOUSING FOR CARTRIDGE LF3000 Ø3/8



legris

-44509-30A

MODIFICATION VERIFIED

19/11/2009 par LP859583

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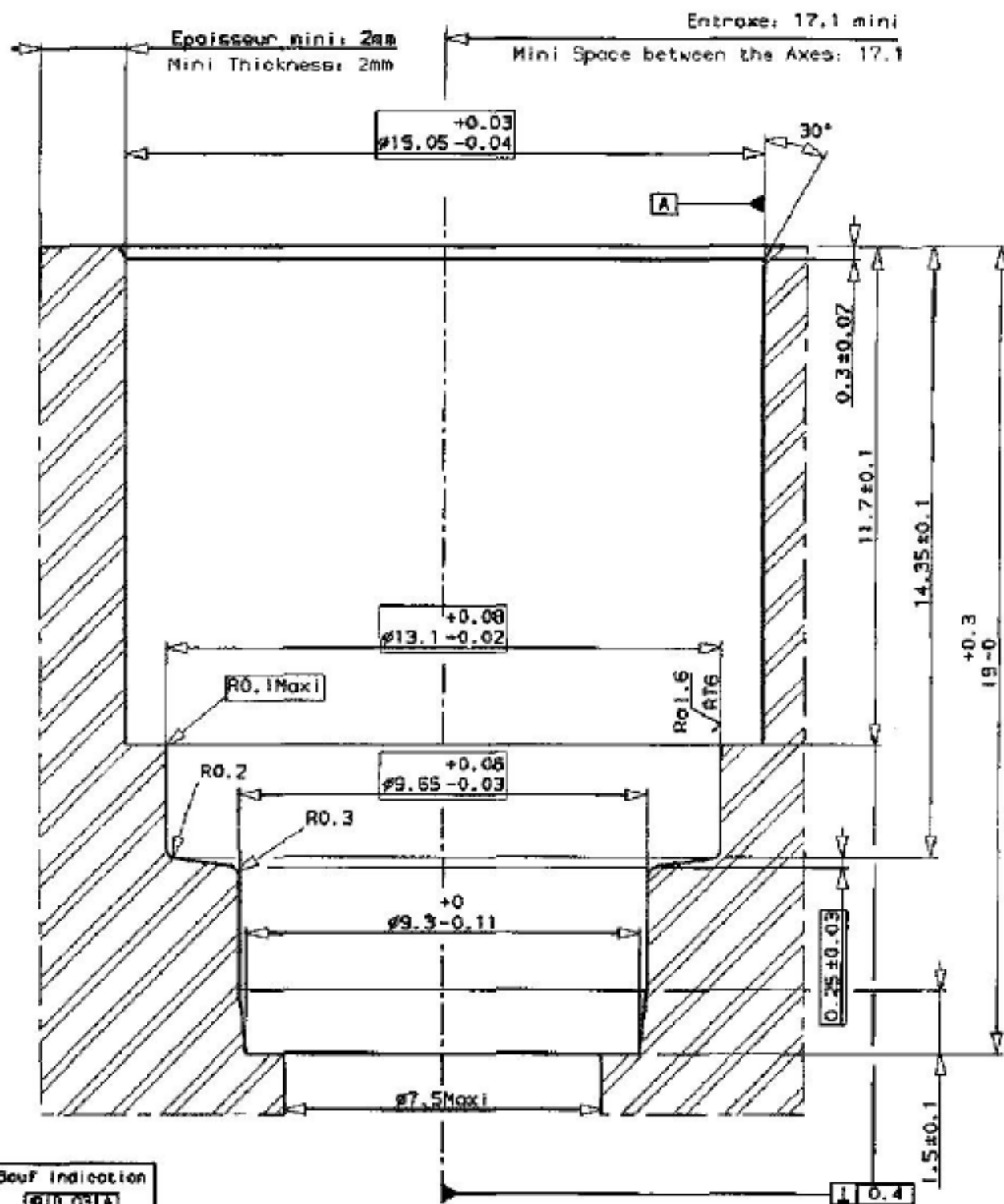
Updated : 25/01/02


Per : FGT

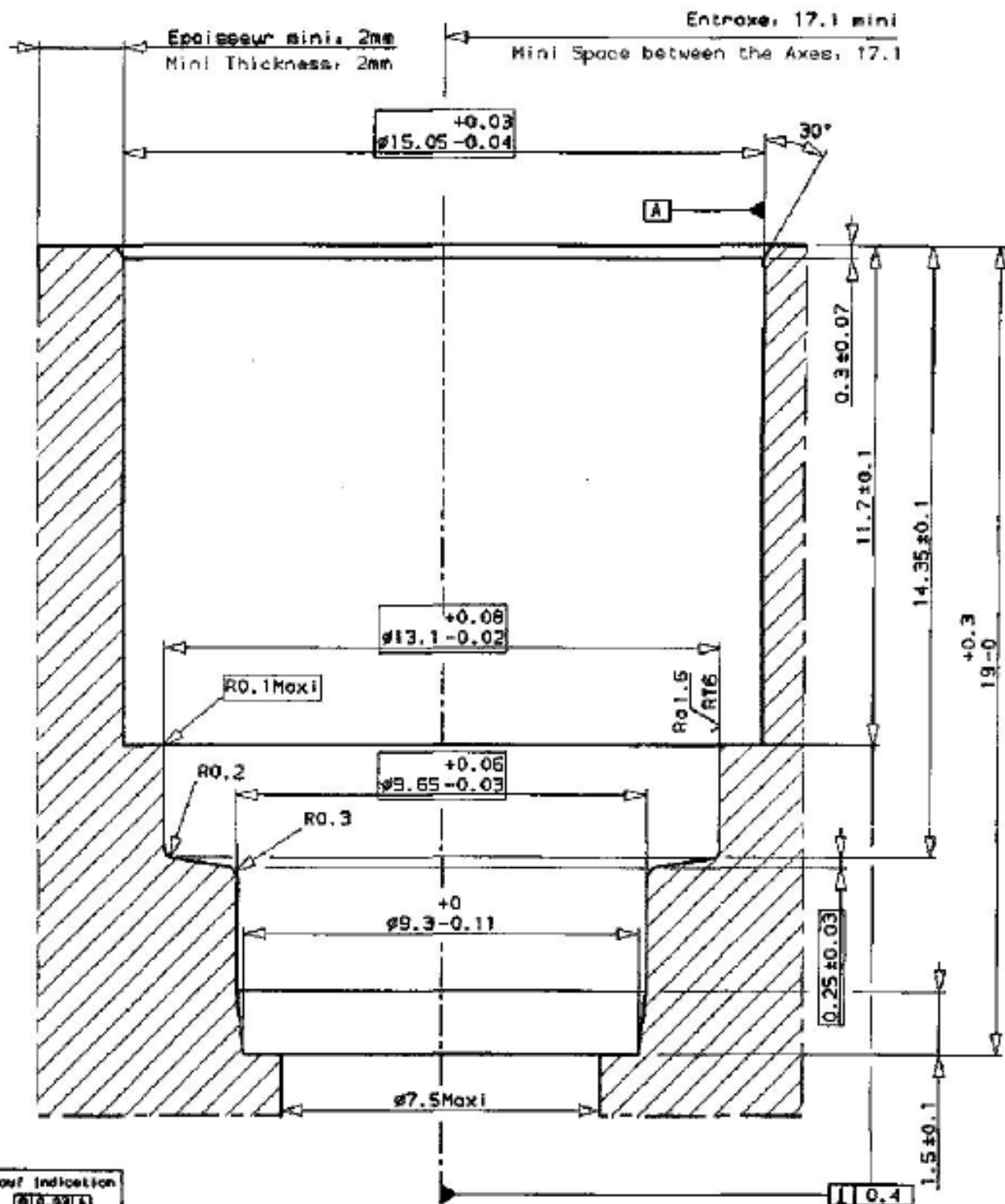
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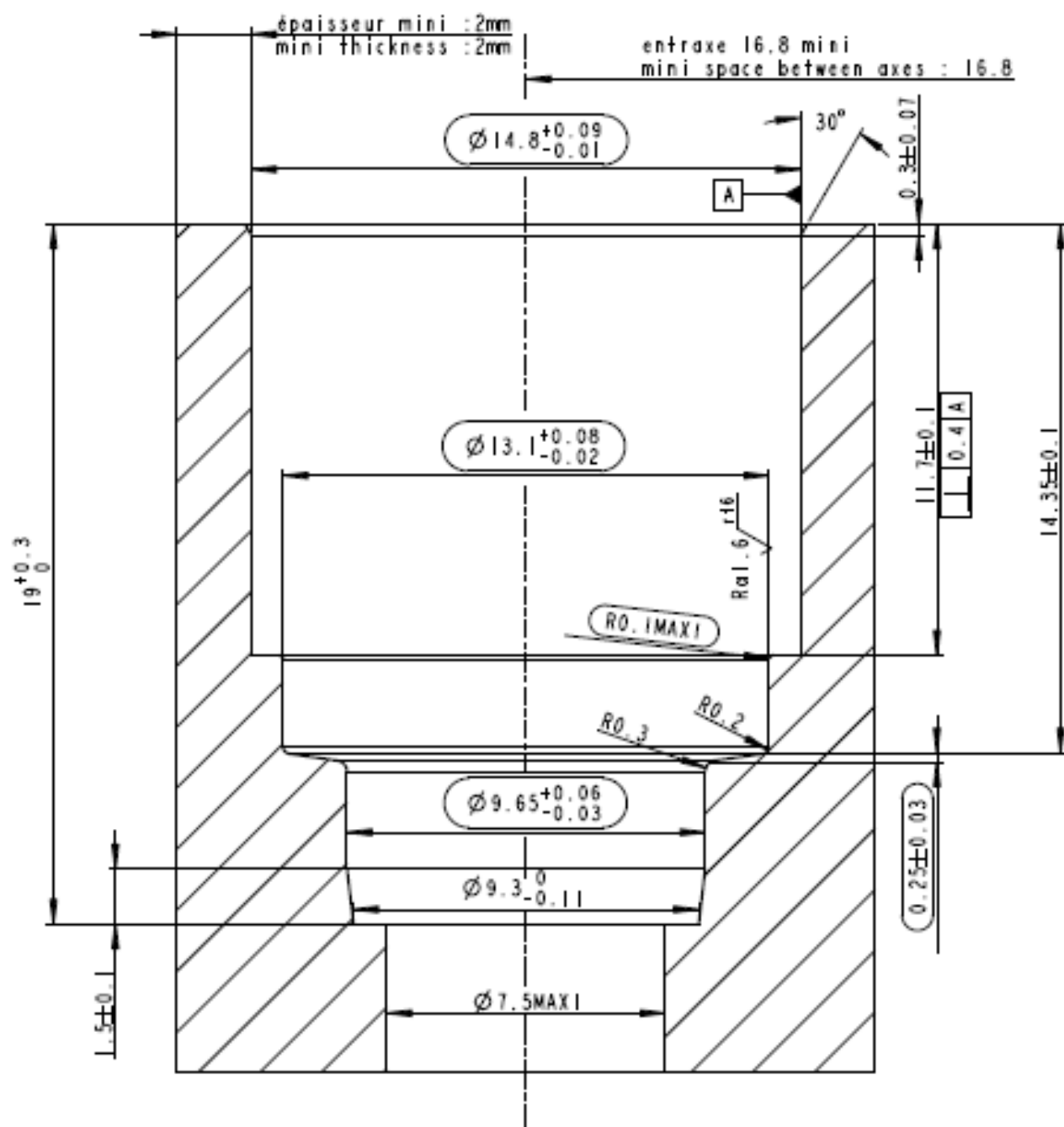
Index : 1



						REFERENCE COMMERCIALE
						-
						TOLERANCES GENERALES
16-01-90	Rajout concentricité de 0.03 par rapport à A			01	BBC	Ra 3.2 ANG: ±1° DIA: - RAY: ±0.05 LONG: -
DATE	DESCRIPTION DES MODIFICATIONS			IND	ETU	✓
A4	ECH: 7	TRAITEMENT: /TREATING: Brut d'Usinage ou Anodisé / Anodized or not				DEVIS
	DOC: 2/2	MATIERE: /MATERIAL: Aluminium				-
		ETUDE	DATE	Logement Aluminium pour Cartouche Ø3/8"		
24rue de Paris 35014 RENNES Cedex		BBC	10-06-97	Aluminium Cavity For Cartridge Ø3/8"		
		VISA		44509-31		
		RED		01		
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Mise à jour: 09/12/92		Par: JNH		Archivage: REDE		Reference: RED 9207
						Indice: -



		REFERENCE COMMERCIALE	
		-	
		TOLERANCES GENERALES	
16-01-98	Rajout concentricite de 0.03 par rapport a A	01	BBC
DATE	DESCRIPTION DES MODIFICATIONS	IND	ETU
A4	ECH: 7 TRAITEMENT: /TREATING: Niquele ou non / Nickel plating or not	DEVIS	
DOC: 2/2	MATIERE: /MATERIAL: Laiton de decolletage / Brass of screw-cutting	-	
		Logement Laiton pour Cartouche #3/8" Brass cavity for cartridge #3/8"	
74 rue de Paris 35014 RENNES Cedex		44509-32	
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Mise à jour: 09/12/92		Par: JNM Archivage: REBE Reference: BCD 9207 Indice: -	



Unless otherwise mentioned

0.03 A
all \varnothing *

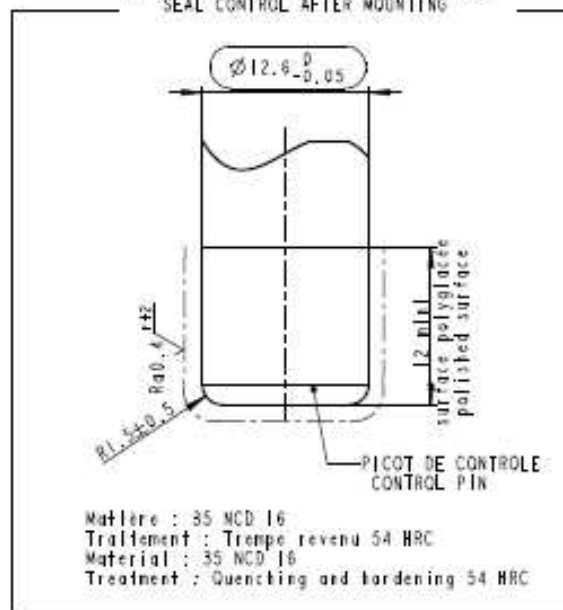
DATE		DESCRIPTION OF MODIFICATIONS		IND	ENG	COMMERCIAL REFERENCE - GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED Ra - ANG: $\pm 1^\circ$ DIA: H13-k13 RAD: ± 0.05 LENG: js13	
A4	SCHLE: 6/1	TRETEMENT:	MATERIAL : PP non chargé				DEVELOPMENT
SHEET: 1/1		14, rue de Paris 95704 BERNES Cedex 7 FRANCE					logement PP carstick 3/8" PP cavity for carstick 3/8" -44509-36-
VERIFIED		01/07/2008 par girou					
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Updated : 25/01/02		Per : FOT		Ablined : REBE		Reference : 8E02019E	
Index : 1							

CARTRIDGE CARSTICK® & HOUSING

REFERENCES:

Cartridge 1/2	6300 62 00
Unfilled Polypropylene	44513-34

CONTROLE D'ETANCHEITE APRES MONTAGE
SEAL CONTROL AFTER MOUNTING



Logement Hole	Reference plan Drawing part number
Nylon D à 30% FV/GF Nylon D to 30% FV/GF	44513-30
Aluminium anodisé ou non Anodized aluminium or not	44513-31
CuZn40PB3 Nickelé ou non CuZn40PB3 nickel-plated or not	44513-32
Polypropylene 0% FV/GF	44513-34

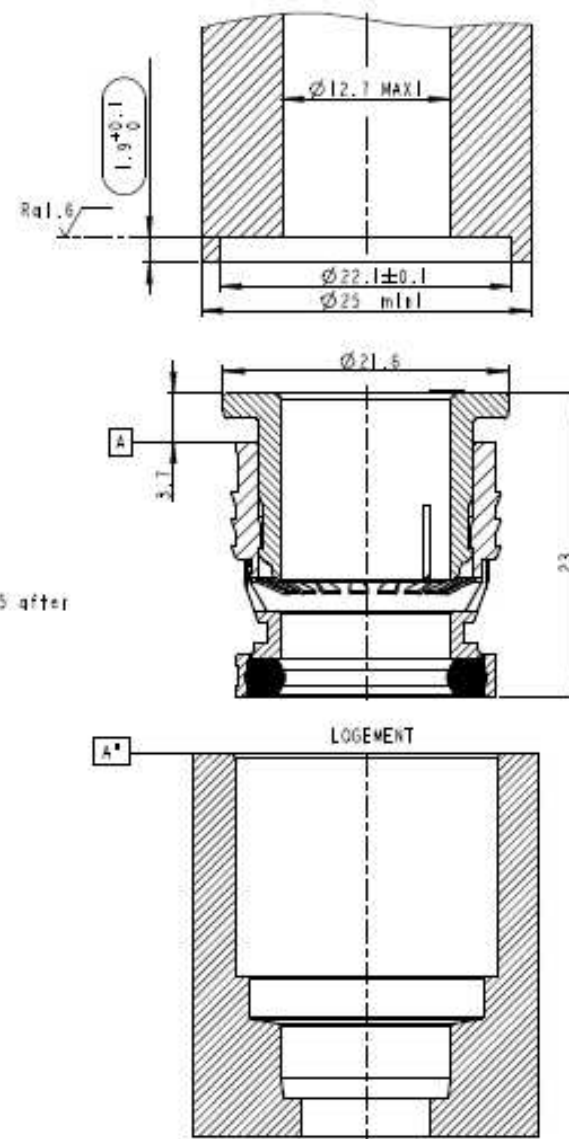
ATTENTION:

Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors, respecter A et A' sur le même plan. Décalage admis +0.15/-0.05 après emmanchement. Tout décalage supérieur à la tolérance, entraînerait un dysfonctionnement du produit.

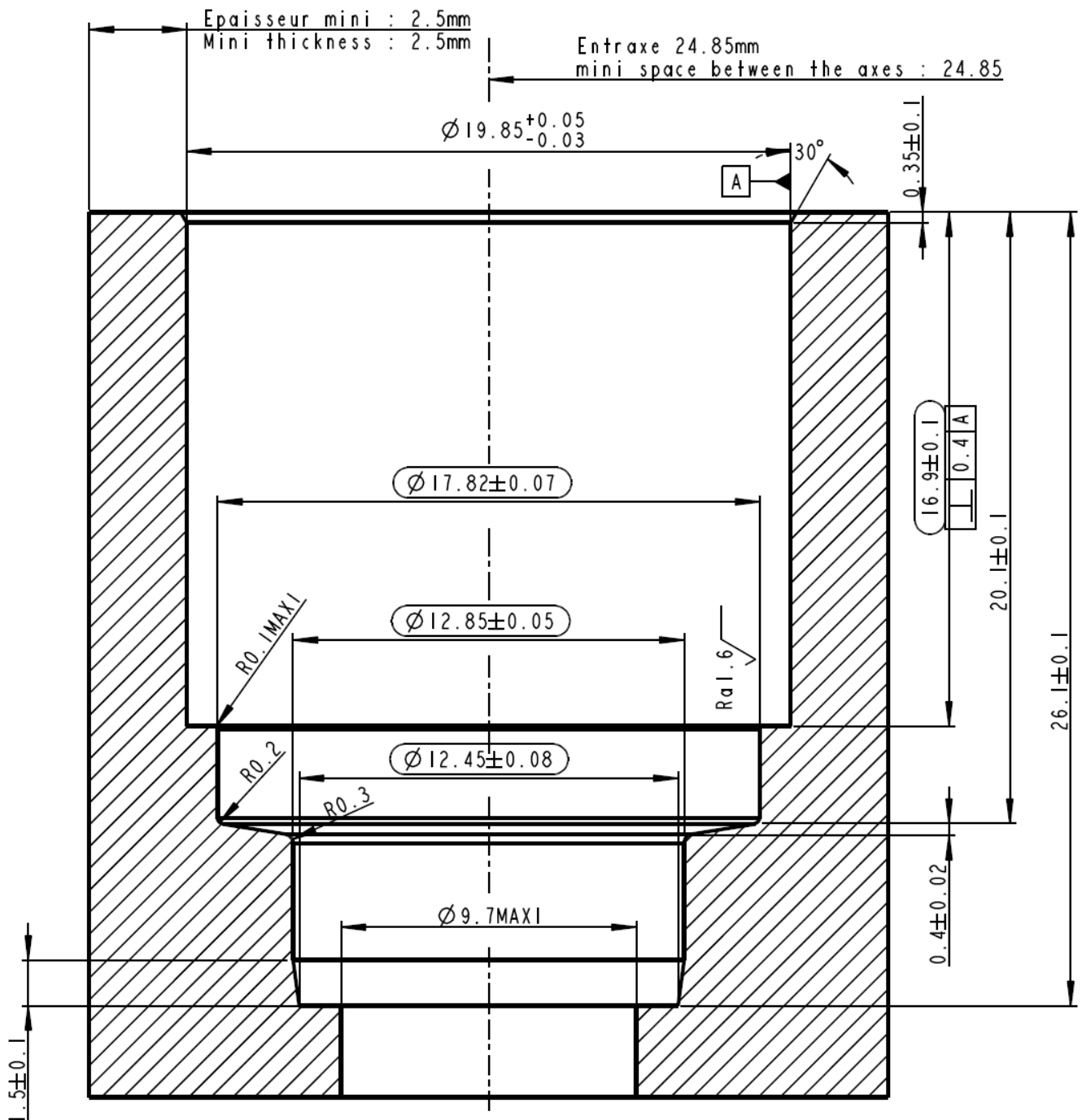
BE CAREFUL:

If this profile of tool can't be used for the assembly of the cartridge, then, respect A and A' on the same level. Acceptable differences +0.15/-0.05 after handling. All superior differences compare to the tolerance will mean a dysfunctioning of product.

PROFIL OUTIL DE MONTAGE



			COMMERCIAL REFERENCE							
			6300-62-00		A3		SCALE: 5/1 TREATMENT:		DEVELOPMENT	
							MATERIAL:			
			GENERAL TOLERANCES		DESIGNED		DATE		CARTOUCHE Ø1/8", PROFIL OUTIL DE MONTAGE ET LOGEMENTS	
			STANDARD: ISO 2768 MS, UNLESS OTHERWISE SPECIFIED		PMT		14-11-08		CARTRIDGES Ø1/8", TOOL FOR MOUNTING AND HOLE DIAGRAM	
DATE			DESCRIPTION DES MODIFICATIONS		APPROVED					
NEW DESIGN			VERIFIED		legris				-V300-62-00-	
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Unless otherwise mentioned		
	0.03	A
all \varnothing *		

COMMERCIAL REFERENCE

GENERAL TOLERANCES

DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

$Ra 3.2$ ANG: $\pm 1^\circ$ DIA :
 $RAD: \pm 0.05$ LENG:

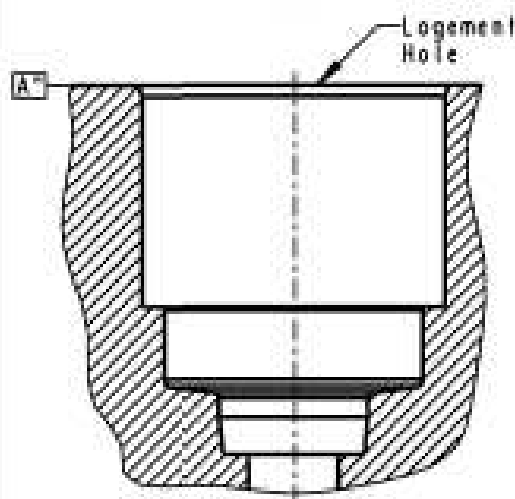
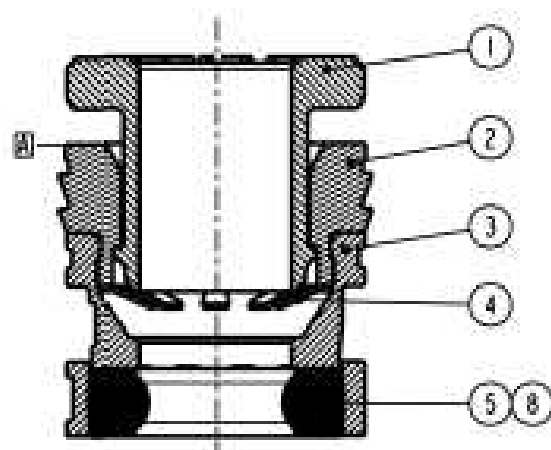
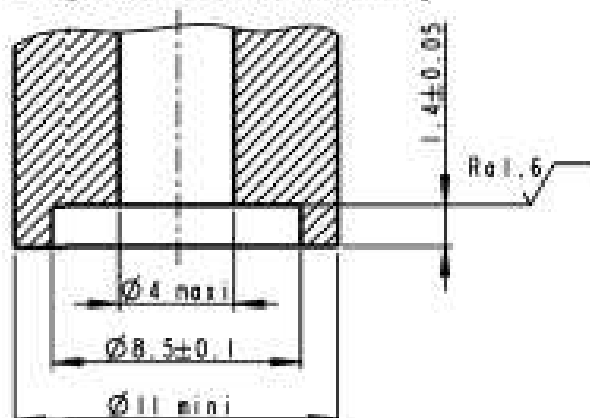
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG'G	✓	RAD: ±0.05	LENG:
A4	SCALE: 5/1	TREATMENT:						DEVELOPMENT
	SHEET: 1/1	MATERIAL : PP non chargé						
 legris		74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE	DESIGNED PNT	DATE 05-Sep-08	logement Polypropylene pour cartouche 1/2"			
			APPROVED	-44513-34				
VERIFIED								
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							Index : I	

CARTRIDGE CARSTICK[®] & HOUSING

REFERENCES: 4 mm tubing

Cartridge	6300 04 00
Nylon housing 0% to 30 % glass fiber	44504-30
Aluminum housing anodized or not	44504-31
CuZn40Pb3 nickel plated or not	44504-32

Profil outil de montage
Diagram of tool for mounting



ATTENTION:

Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors, respecter A et A' sur le même plan.

Décalage admis ± 0.15 après emmanchement.

Tout décalage supérieur à la tolérance, entraînerait un dysfonctionnement du produit.

BE CAREFUL:

If this profile of tool can't be used for the assembly of the cartridge, then, respect A and A' on the same level.

Acceptable differences ± 0.15 after handling.

All superior differences compare to the tolerance will mean a dysfunctioning of product.

Logement Hole	Reference plan Drawing part number
Polymères 0 à 30% FV/BV Plastic 0 at 30% FV/BV	44504-30
Aluminium anodisé ou non Anodized aluminium or not	44504-31
CuZn40Pb3 Nickelé ou non CuZn40Pb3 nickel-plated or not	44504-32

WEIGHT (g): 1.024 VOLUME (cm³): 0.301 AREA (dm²): 0.098 V300-04-00

COMPONENT ACCEPTANCE
ACCORDING TO BES0801

SCI : 0

SC : 0

GENERAL TOLERANCES

DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

DATE DESCRIPTION OF MODIFICATIONS

IND

ENG

✓

ANG

DIA

RAD

LEAD

A4

SCALE: 1/1
SHEET: 1/1

TREATMENT:
MATERIAL:

DEVELOPMENT



legris

84, rue de Paris
93100 La Plaine
BOULEVARD CODES 1
FRANCE

DESIGNED
OCC
APPROVED

DATE
07-Apr-09

CARTOUCHE Ø4, PROFIL OUTIL DE MONTAGE ET LOGEMENTS
CARTRIDGE Ø4, PROFILE OF ASSEMBLY TOOL AND HOLE

-V300-04-00-

NEW DESIGN

VERIFIED

30/04/2009 par lpouchard

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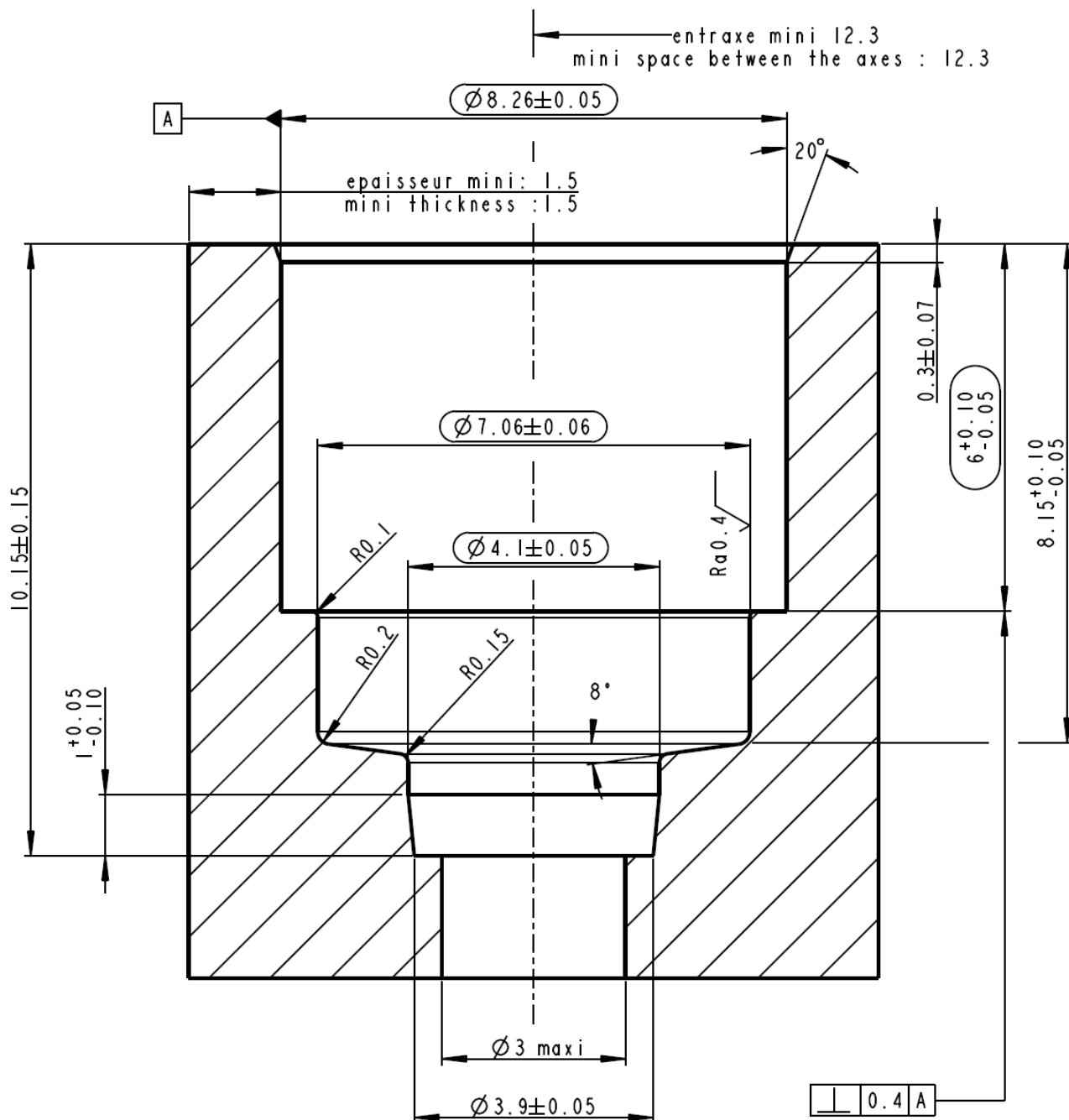
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Par : FBT

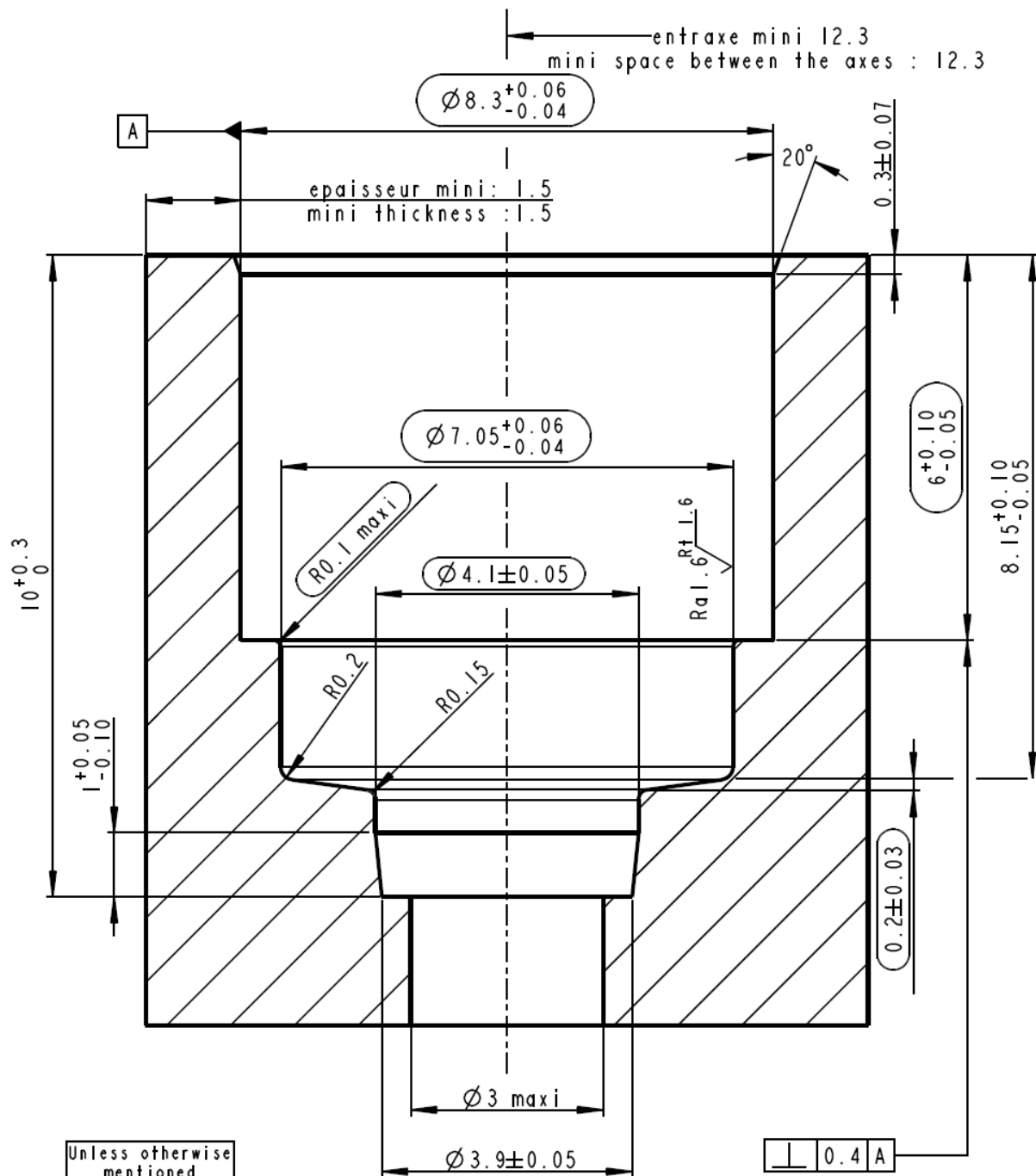
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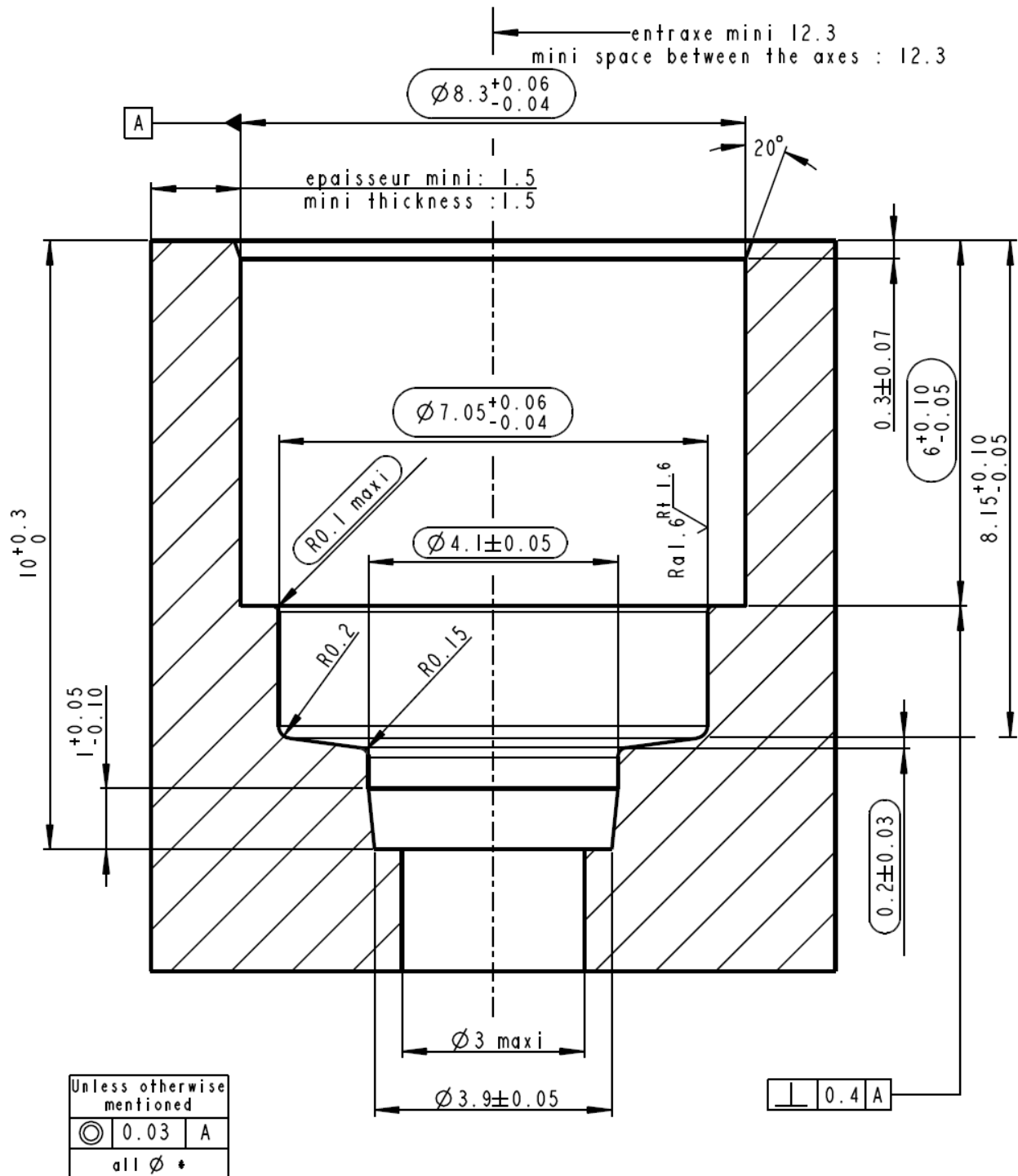



12-11-09	Update of the dimensions, of the general tolerances and of the material description.			F	CDS	COMMERCIAL REFERENCE	
24-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			E	PNT	-	
09-04-97	Aménagement cotation			01	BBC	GENERAL TOLERANCES	
14-10-96	création plan client			D	BBC	DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG'G	Ra 0.8 ANG: ±1° DIA : N°T 58000 RAD: ±0.05 LENG: Class P	
A4	SCALE: 10/1	TREATEMENT:					DEVELOPMENT
	SHEET: 1/1	MATERIAL : Polyamide 6.6 0 to 30% GF					-
 legris		74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE	DESIGNED BBC	DATE 14-10-96	LOGEMENT PLASTIQUE POUR CARTOUCHE 04 LF3000 PLASTIC HOLE FOR CARTRIDGE LF3000 Ø4		
		APPROVED	-44504-30F				
MODIFICATION		VERIFIED	19/11/2009 par LP859583				
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						Index :	



Unless otherwise mentioned		
	0.03	A
all \varnothing *		

24-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			A	PNT	COMMERCIAL REFERENCE	
16-01-98	Rajout concentricité de 0.03 par rapport à A			02	BBC	-	
09-04-97	Amenagement cotation -			01	BBC	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
29-11-96	Passage en numéro définitif			-	BBC	Ra - ANG: ±1° DIA : ✓ RAD: ±0.05 LENG:	
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG	G	
A4	SCALE: 10/1	TREATEMENT: anodisé ou non / anodized or not					DEVELOPMENT
	SHEET: 1/1	MATERIAL : Aluminium usiné / machining aluminium					-
 legris 74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED PLQ	DATE 19-06-96	LOGEMENT ALUMINIUM POUR CARTOUCHE Ø4 LF3000 ALUMINIUM HOLE FOR CARTRIDGE LF3000 Ø4			
		APPROVED	-44504-31A				
MODIFICATION		VERIFIED					
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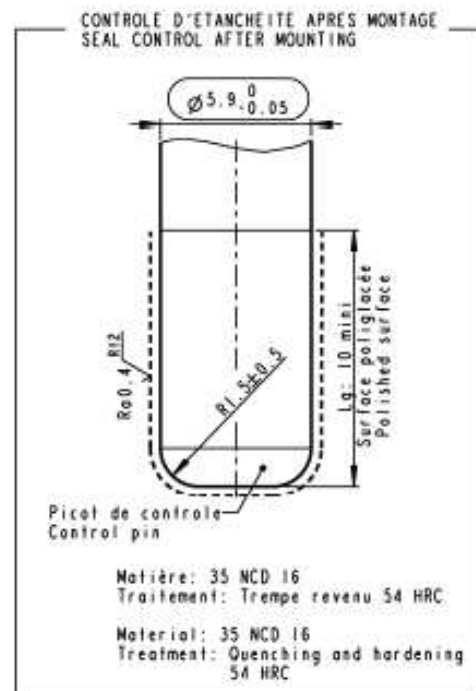


							COMMERCIAL REFERENCE -
24-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E				A	PNT	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED
16-01-98	Rajout concentricité de 0.03 par rapport à A				01	BBC	Ra - ANG: ±1° DIA : RAD: ±0.05 LENG:
DATE	DESCRIPTION OF MODIFICATIONS				IND	ENG'G	
A4	SCALE: 10/1	TREATEMENT: nickelé ou non / nickel plated or not					DEVELOPMENT -
	SHEET: 1/1	MATERIAL : laiton de décolletage / machining brass					
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 13-12-96	LOGEMENT LAITON POUR CARTOUCHE 04 LF3000 BRASS HOLE FOR CARTRIDGE LF3000 Ø4			
 legris		APPROVED	-44504-32A				
MODIFICATION		VERIFIED					
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						Index : 1	

CARTRIDGE CARSTICK[®] & HOUSING

REFERENCES: 6 mm tubing

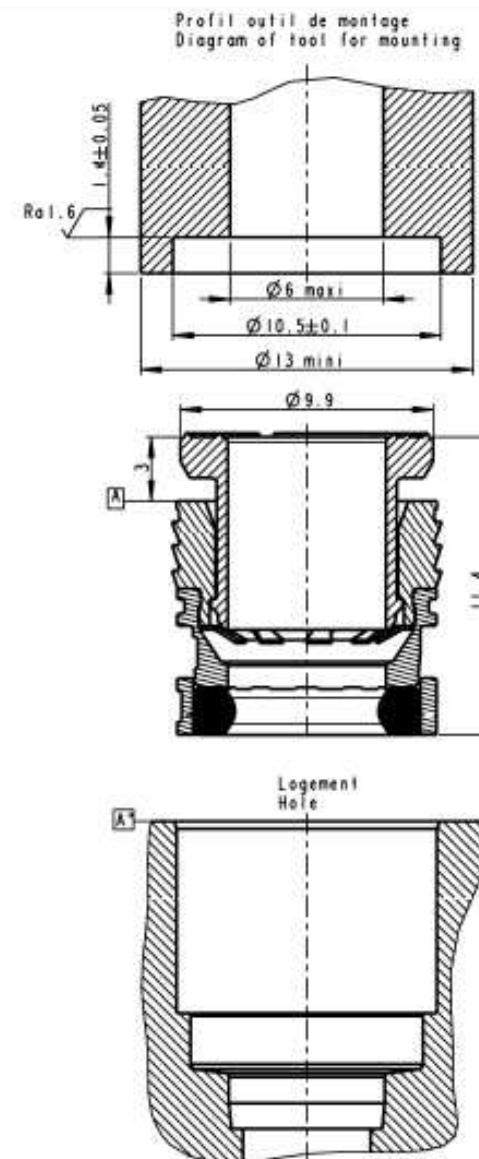
Cartridge	6300 06 00
Nylon housing 0% to 30 % glass fiber	44506-30
Aluminum housing anodized or not	44506-31
CuZn40Pb3 nickel plated or not	44506-32



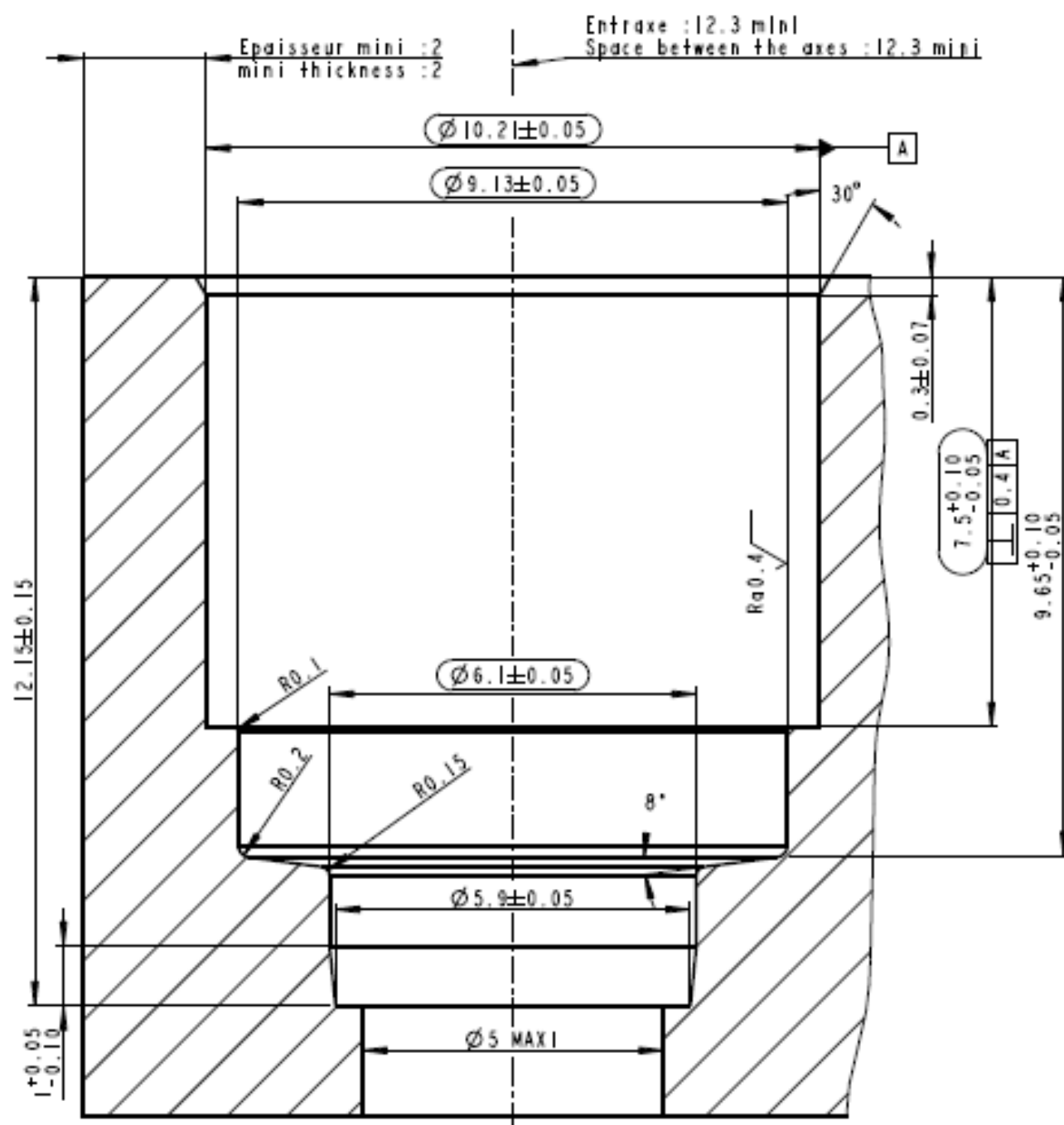
Logement Hole	Reference plan Drawing part number
Nylon 0 à 30% FV/BV Nylon 0 à 30% FV/BV	44506-30E/01
Aluminium anodisé ou non Anodized aluminium or not	44506-31/02
CuZn40Pb3 Nickelé ou non CuZn40Pb3 nickel-plated or not	44506-32/01


ATTENTION:
Si ce profil d'outil ne peut pas
être utilisé pour le montage de
la cartouche, alors, respecter
A et A* sur le même plan.
Décalage admis ± 0.15 après
emmanchement.
Tout décalage supérieur à la
tolérance, entraînerait un
dysfonctionnement du produit.

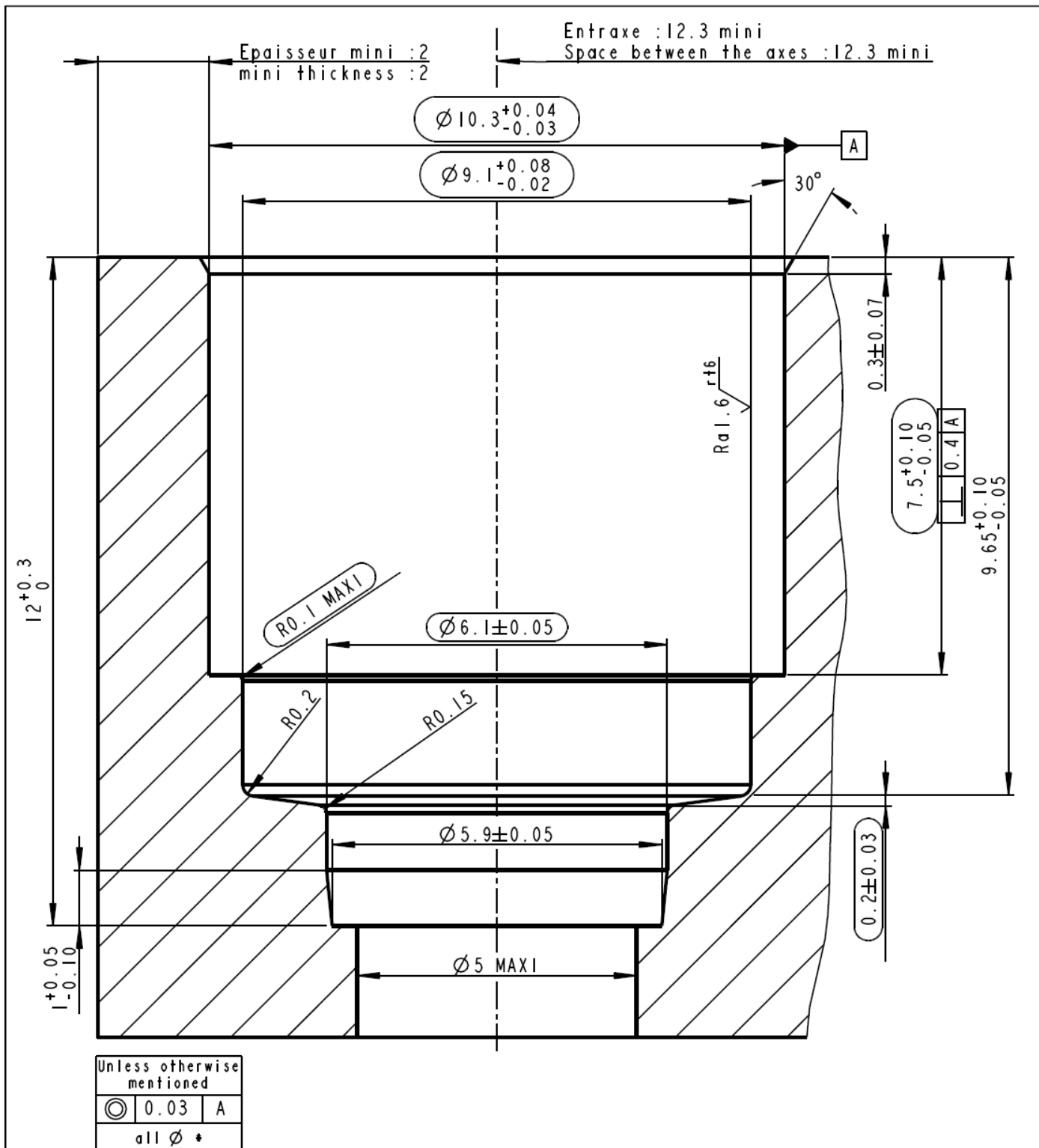
BE CAREFUL:
If this profile of tool can't be
used for the assembly of the
cartridge, then, respect A and A*
on the same level.
Acceptable differences ± 0.15 after
handling.
All superior differences compare
to the tolerance will mean a
dysfunctioning of product. !




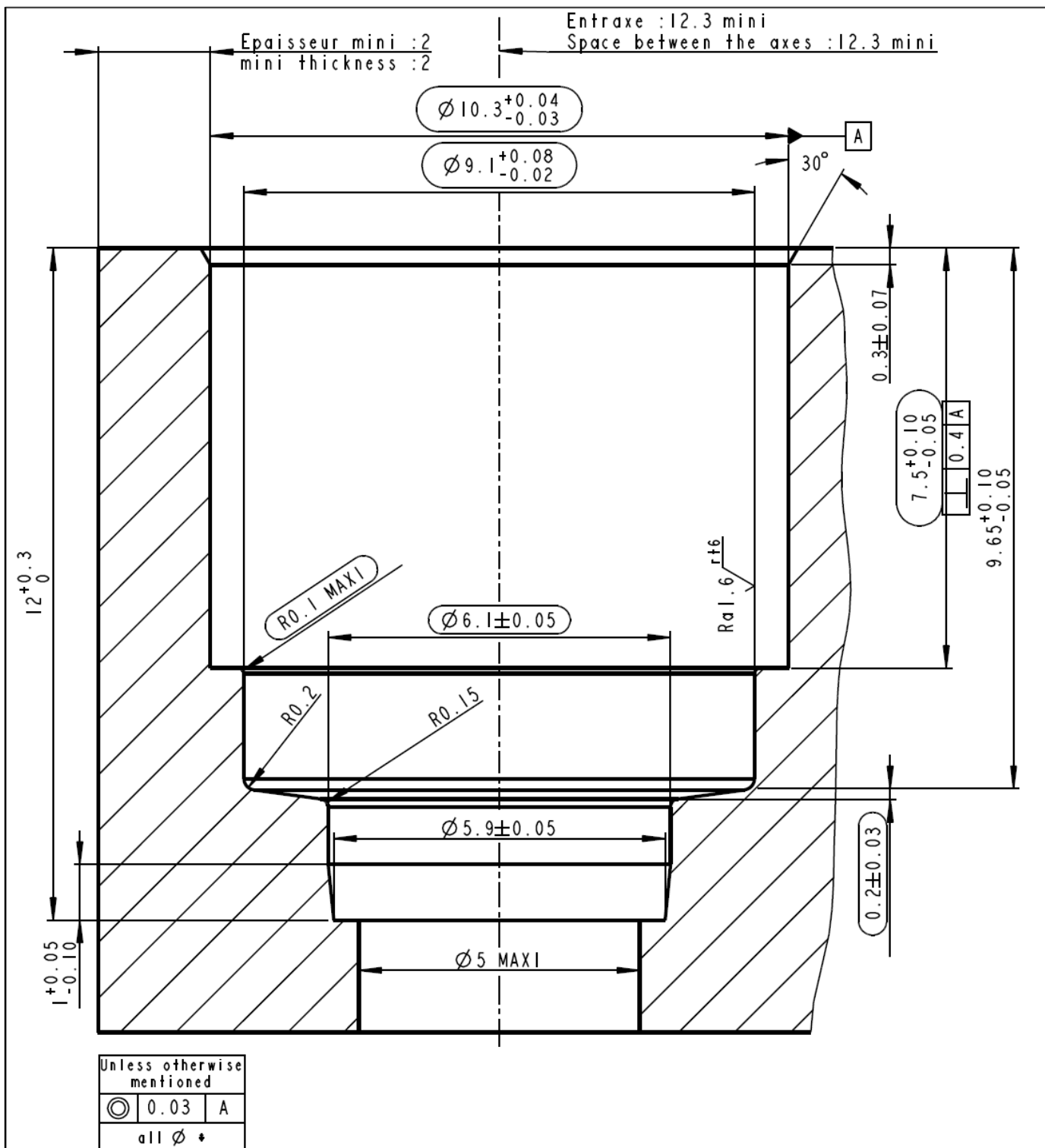
		COMMERCIAL REFERENCE							
		6300-06-00		A3		SCALE: 4/3 TREATMENT:		DEVELOPMENT	
						SHEET: 1/2 MATERIAL:			
		GENERAL TOLERANCES		28, rue de Paris 92161 92164 RENNES Cedex 3 FRANCE		DESIGNED CCO		DATE 07-Apr-09	
		DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED		legris		APPROVED		CARTOUCHE Ø 6, PROFIL OUTIL DE MONTAGE ET LOGEMENTS CARTOUCHE Ø 6, TOOL FOR MOUNTING AND HOLE DIAGRAMS	
DATE		DESCRIPTION DES MODIFICATIONS		IND ETU				-V300-06-00-	
NEW DESIGN		VERIFIED		30/04/2009 par lpouchard					
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12-11-99	Update of the dimensions, of the general tolerances and of the material description.			G	CDS	COMMERCIAL REFERENCE	
16-07-99	Update drawing according to change request N°2099/602 Re-drawing on PRO/E			F	PNT	-	
09-04-97	Aménagement cotation			01	BBC	GENERAL TOLERANCES	
17-02-97	Ø19.2±0.05 devient 10.24, 9.67±0.04			E	BBC	DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG	✓ R _a 0.8 ANG: ±1° ØIA : NPT 58000 RAD: ±0.05 LENG: Class P	
A4	SCALE: 1/1	TREATMENT:					DEVELOPMENT
	SHEET: 1/1	MATERIAL : Polyamide 6.6 0% to 30% GF					
14, rue de Paris 92704 LEVALLOIS 92704 BERNES Cedex 2 FRANCE		DESIGNED BBC	DATE 14-10-96	LOGEMENT PLASTIQUE POUR CARTOUCHE LP3000 D6 PLASTIC HOLE FOR CARTRIDGE LP3000 D6			
 legris		APPROVED	-44506-30G				
MODIFICATION		VERIFIED	19/11/2009 par LP859583				
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Updated : 25/01/02		Par : FGT		Approuvé : REBE		Reference : 8ED0201AE	
						Index :	



							COMMERCIAL REFERENCE
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E				A	PNT	-
16-01-98	Rajout concentricité de 0.03 par rapport à A				01	BBC	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED
09-04-97	Aménagement cotation				01	BBC	Ra 3.2 ANG: ±1° DIA : RAD: ±0.05 LENG:
DATE	DESCRIPTION OF MODIFICATIONS				IND	ENG'G	✓
A4	SCALE: 10/1	TREATEMENT: anodisé ou non / anodized or not					DEVELOPMENT -
	SHEET: 1/1	MATERIAL : Aluminium usiné / machinig aluminium					
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 12-12-96	LOGEMENT ALUMINIUM POUR CARTOUCHE LF3000 D6 ALUMINIUM HOLE FOR CARTRIDGE LF3000 D6			
 legris		APPROVED	-44506-31A				
MODIFICATION VERIFIED							
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BED9201RE	
						Index : 1	



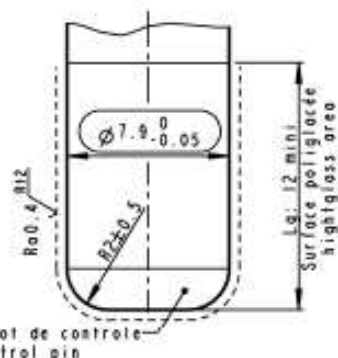
						COMMERCIAL REFERENCE	
						-	
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			A	PNT	GENERAL TOLERANCES	
16-01-98	Rajout concentricité de 0.03 par rapport à A			01	BBC	DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG	Ra 3.2 ANG: ±1° DIA : RAD: ±0.05 LENG:	
A4	SCALE: 10/1	TREATMENT: nickeché ou non / nickel plated or not					DEVELOPMENT
	SHEET: 1/1	MATERIAL : laiton de décolletage / machining brass					
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 12-12-96	LOGEMENT LAITON POUR CARTOUCHE LF3000 D6 BRASS HOLE FOR CARTRIDGE LF3000 D6			
 legris		APPROVED	-44506-32A				
MODIFICATION VERIFIED							
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BED9201RE	
						Index : I	

CARTRIDGE CARSTICK[®] & HOUSING

REFERENCES: 8 mm tubing

Cartridge	6300 08 00
Nylon housing 0% to 30 % glass fiber	44508-30
Aluminum housing anodized or not	44508-31
CuZn40Pb3 nickel plated or not	44508-32

CONTROLE D'ETANCHEITE APRES MONTAGE
SEAL CONTROL AFTER MOUNTING



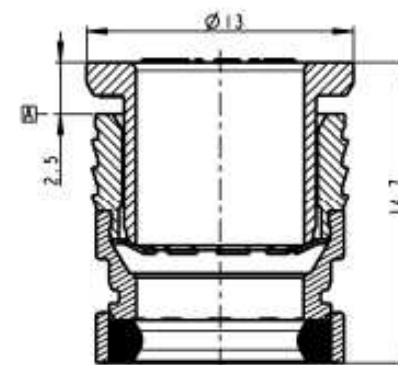
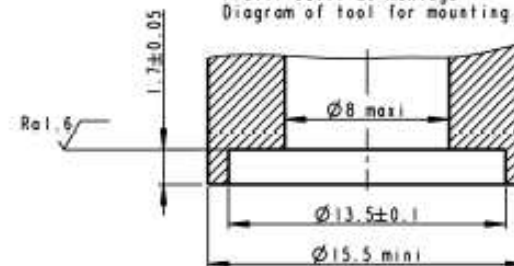
Matière: 35 NCD 16
Traitement: Trempe revenu 54 HRC
Material: 35 NCD 16
Treatment: Quenching and hardening 54 HRC

Logement Hole	Reference plan Drawing part number
Nylon 0 à 30% FV/BV Nylon 0 à 30% FV/BV	44508-30D/01
Aluminium anodisé ou non Anodized aluminium or not	44508-31A/02
CuZn40Pb3 Nickelé ou non CuZn40Pb3 nickel-plated or not	44508-32/01

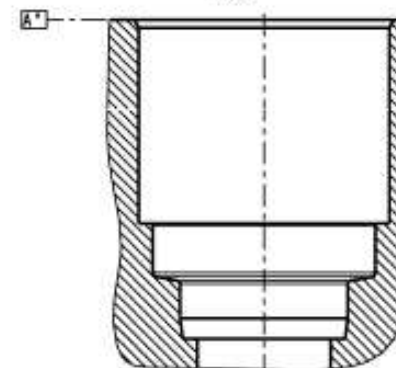
ATTENTION:
Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors, respecter A et A* sur le même plan. Décalage admis ± 0.15 après emmanchement.
Tout décalage supérieur à la tolérance, entraînerait un dysfonctionnement du produit.

BE CAREFUL:
If this profile of tool can't be used for the assembly of the cartridge, then, respect A and A* on the same level.
Acceptable differences ± 0.15 after handling.
All superior differences compare to the tolerance will mean a dysfunctioning of product. I

Profil outil de montage
Diagram of tool for mounting



Logement Hole



COMMERCIAL REFERENCE

6300-08-00

GENERAL TOLERANCES

DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED
ANG : DIA :
RAD : LENG :

A3

SCALE: 4/1
SHEET: 1/2

TREATMENT: MATERIAL:

76, rue de Paris
93164
35104 RENNES Cedex 3
FRANCE

DESIGNED
CCO

DATE
07-Apr-08

CARTOUCHE Ø8, PROFIL OUTIL DE MONTAGE ET LOGEMENT
CARTRIDGE Ø8, TOOL FOR MOUNTING AND HOLE DIAGRAM

-V300-08-00-

DATE DESCRIPTION DES MODIFICATIONS INQUETU
NEW DESIGN VERIFIED 30/04/2009 par ipouchard

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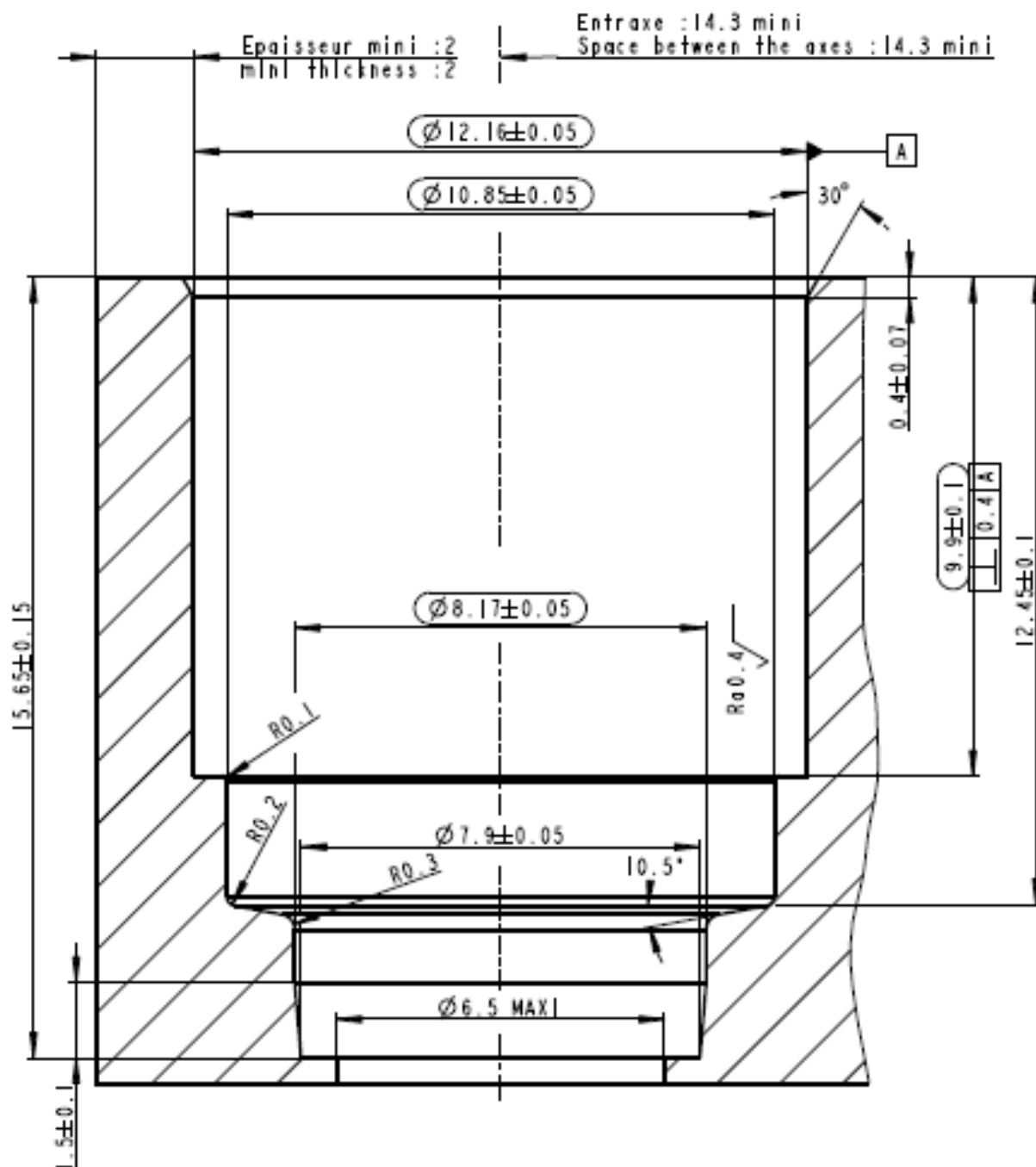
Updated: 05/02/02


Per: 006

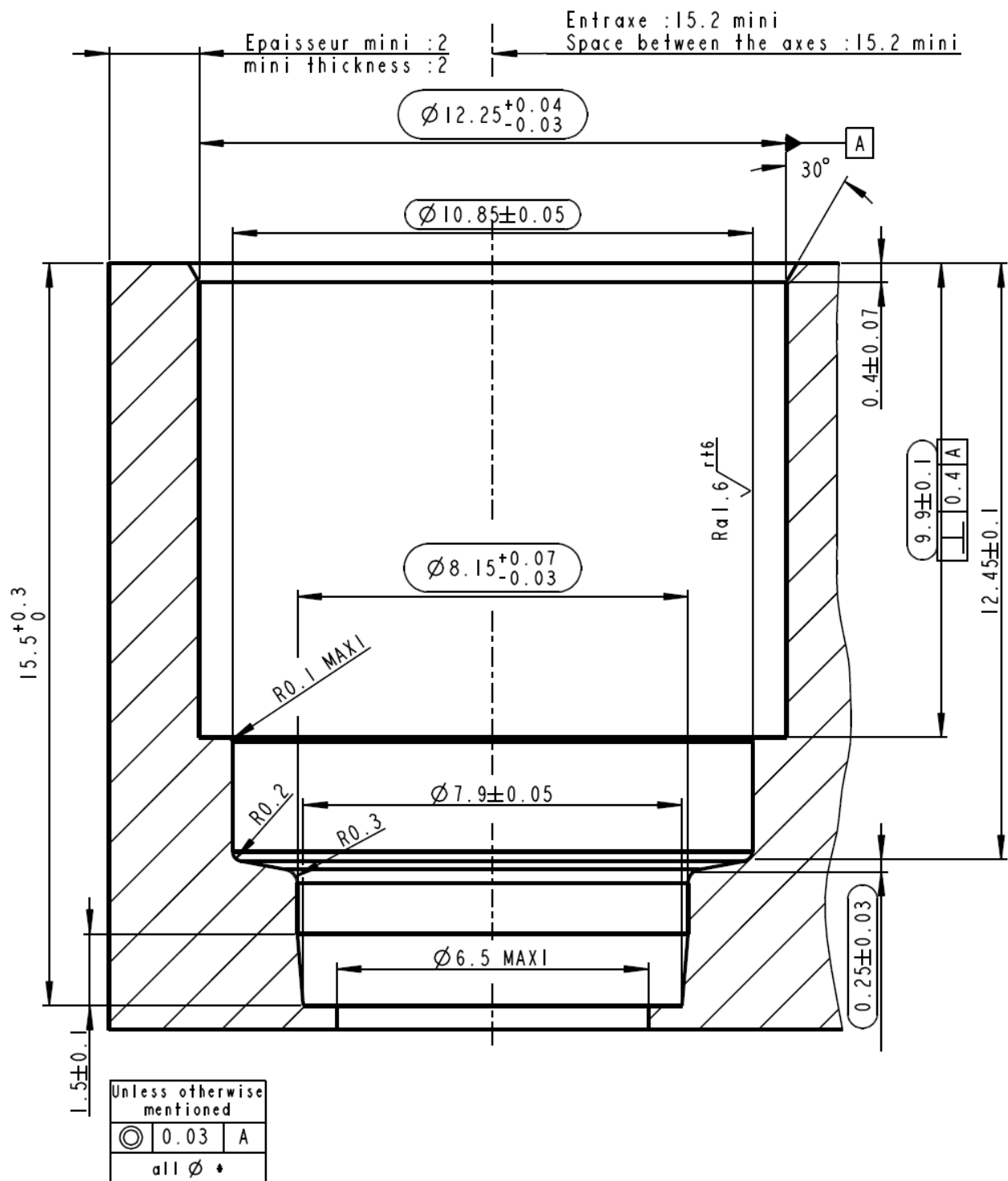
Archived: REBE


Reference: 6300-08-00

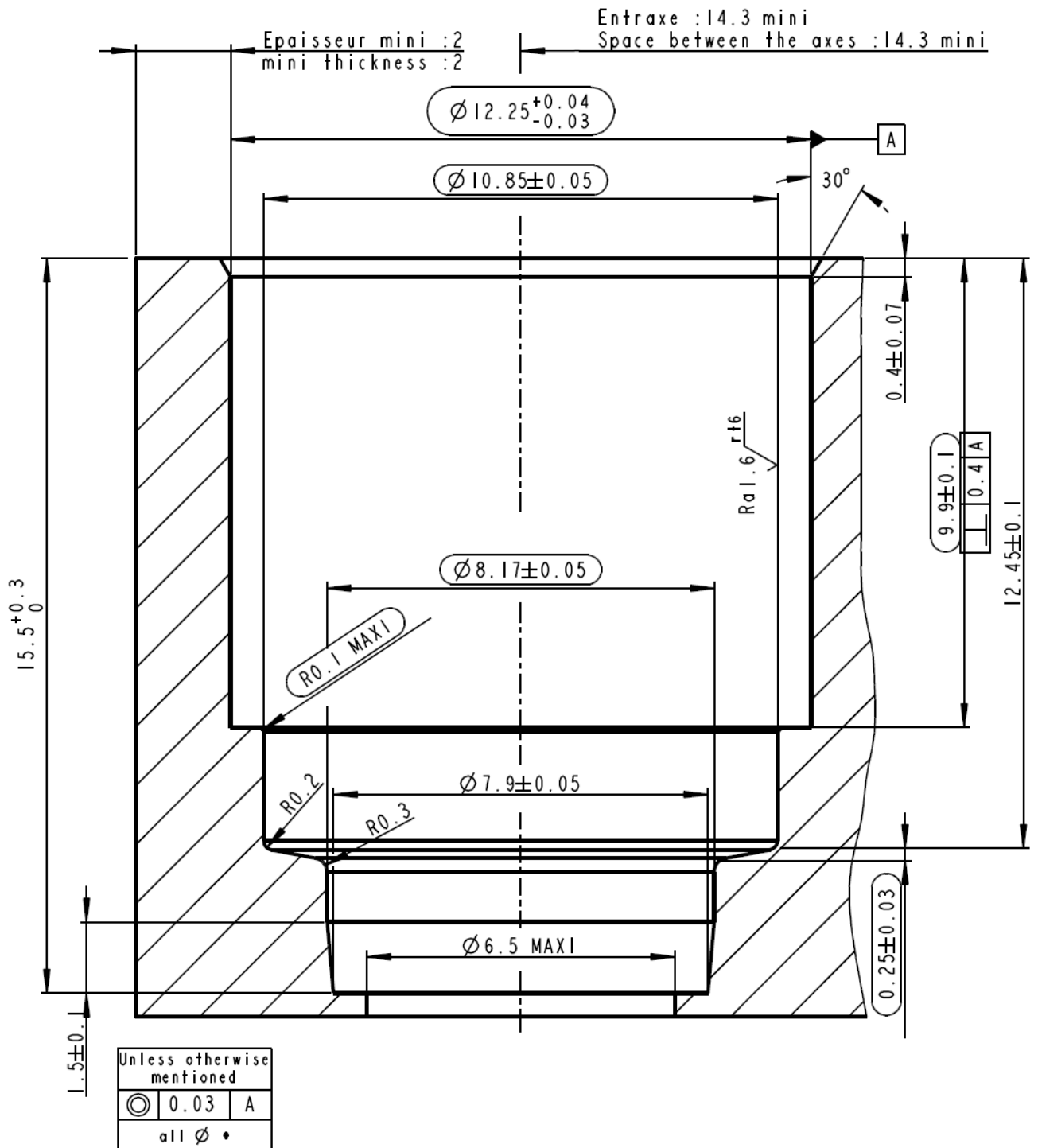
1449x 1



12-11-09	Update of the dimensions, of the general tolerances and of the material description.			F	CDS	COMMERCIAL REFERENCE	
16-07-09	Update drawing according to change request N°2009/002 Re-drawing on PRO/E			E	PNT	-	
09-04-97	Aménagement cotillon			01	BBC	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
07-10-96	Suppression cote à 5° - Ajout perpendicularité de 0.4 logement issu de la conception			0	BBC	Ra 0.8	ANG: ±1° DIA : MFT 58000
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG'S	✓	RAD: ±0.05 LENG: Class P
A4	SCALE: 8/1	TREATMENT:					DEVELOPMENT -
	SHEET: 1/1	MATERIAL : Polyamide 6.6 0 to 30% GF					
14, rue de Paris 95704 RENNES Cedex 7 FRANCE		DESIGNED PLO	DATE 30-11-94	LOGEMENT PLASTIQUE POUR CARTOUCHE LP3000 D8 PLASTIC HOLE FOR CARTRIDGE LP3000 D8			
	legris	APPROVED	-44508-30F				
MODIFICATION VERIFIED		19/11/2009 par LP859583					
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Updated : 25/01/02		Par : FGT		Approuvé : REBE		Reference : 8E092019E	
						Index :	



16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E		C	PNT	COMMERCIAL REFERENCE	
16-01-98	Rajout concentricité de 0.03 par rapport à A		02	BBC	-	
09-04-97	Aménagement cotation		01	BBC	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
29-01-97	Ø 12.9+0.04/-0.03 devient Ø 12.2+0.07/-0		A	BBC	Ra 3.2	ANG: ±1° DIA : RAD: ±0.05 LENG:
DATE	DESCRIPTION OF MODIFICATIONS		IND	ENG'G	✓	
A4	SCALE: 8/1	TREATEMENT: anodisé ou non /anodized or not				DEVELOPMENT -
	SHEET: 1/1	MATERIAL : ALuminium usiné / machining aluminium				
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED PLQ	DATE 19-06-96	LOGEMENT ALUMINIUM POUR CARTOUCHE LF3000 D8 ALUMINIUM HOLE FOR CARTRIDGE LF3000 D8		
	legris	APPROVED	-44508-31C			
MODIFICATION VERIFIED						
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BED9201RE
						Index : I



COMMERCIAL REFERENCE

16-07-09 Update drawing according to change request N°2009/602
Re-drawing on PRO/E

A PNT

16-01-98 Rajout concentricité de 0.03 par rapport à A

02 BBC

GENERAL TOLERANCES
DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

ANG: $\pm 1^\circ$ DIA :
RAD: ± 0.05 LENG:

DATE DESCRIPTION OF MODIFICATIONS

IND ENG'G

A4 SCALE: 8/1 TREATMENT: nickelé ou pas / nickel plated or not

DEVELOPMENT

SHEET: 1/1 MATERIAL : laiton de décolletage / machining brass

74, rue de Paris
BP70411
35704 RENNES Cedex 7
FRANCE

DESIGNED
BBC
APPROVED

DATE
12-12-96

LOGEMENT LAITON POUR CARTOUCHE LF3000 D8
BRASS HOLE FOR CARTRIDGE LF3000 D8



legris

-44508-32A

MODIFICATION VERIFIED

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Updated : 25/01/02

Per : FGT

Achived : REBE

Reference : BED920IRE

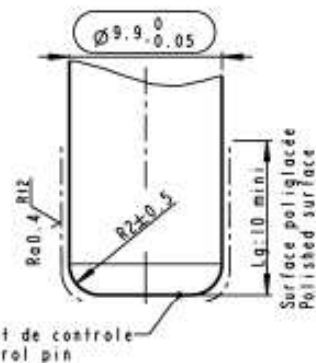
Index : I

CARTRIDGE CARSTICK[®] & HOUSING

REFERENCES: 10 mm tubing

Cartridge	6300 10 00
Nylon housing 0% to 30 % glass fiber	44510-30
Aluminum housing anodized or not	44510-31
CuZn40Pb3 nickel plated or not	44510-32

CONTROLE D'ETANCHEITE APRES MONTAGE
SEAL CONTROL AFTER MOUNTING



Matière: 35 NCD 16
Traitement: Trempe revenu 54 HRC
Material: 35 NCD 16
Treatment: Quenching and hardening
54 HRC

Logement Hole	Reference plan Drawing reference
Nylon 0 à 30% FV/BV Nylon 0 at 30% GF/GB	44510-30
Aluminium Anodisé ou non Anodized aluminium or not	44510-31
CuZn40Pb3 Nickelé ou non CuZn40Pb3 Nickel-plating or not	44510-32

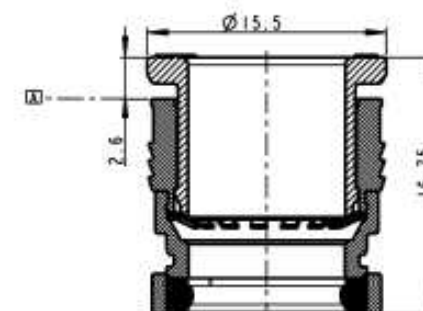
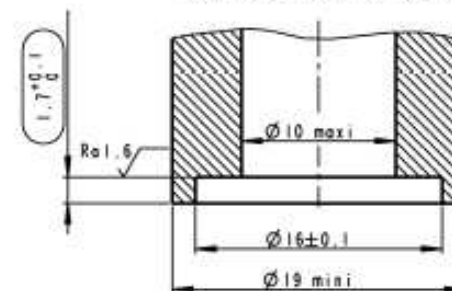
ATTENTION:

Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors, respecter A et A' sur le même plan.
Décalage admis ± 0.1 après montage.
Tout décalage supérieur à la tolérance, entraînerait un dysfonctionnement du produit.

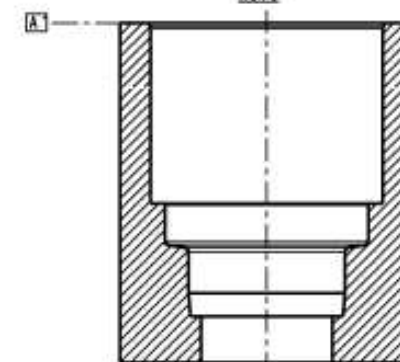
BE CAREFUL:

If, this profile of tool can't be used for assembly the cartridge, then, respect A and A' on the same level.
Acceptable difference ± 0.1 after handling.
Any difference over tolerance will mean a dysfunction of product

Profil outil de montage
Diagram of tool for mounting



Logement
Hole



COMMERCIAL REFERENCE

6300-10-00

A3

SCALE: 3/1 TREATMENT:
SHEET: 1/2 MATERIAL:

26, rue de Paris
93164
93164 RENNES Cedex 3
FRANCE

DESIGNED
CCO

DATE
08-Apr-09

CARTOUCHE Ø 10, PROFIL OUTIL DE MONTAGE, LOGEMENTS
CARTRIDGES Ø 10, TOOL FOR MOUNTING AND HOLE DIAGRAM

-V300-10-00-

legris

Updated: 05/02/02

Per: BOE

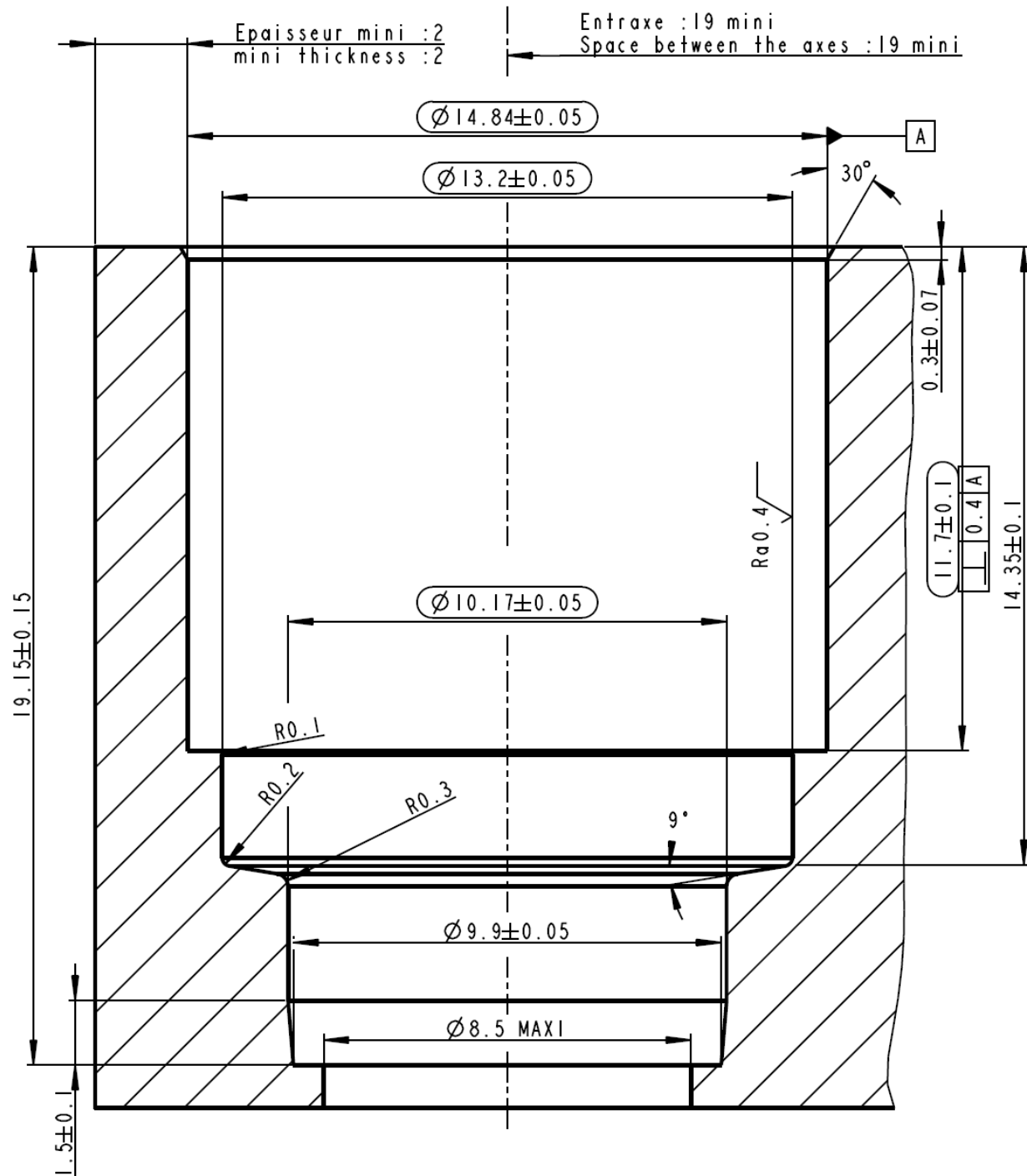
Archived: REBE


Reference: 05/02/02

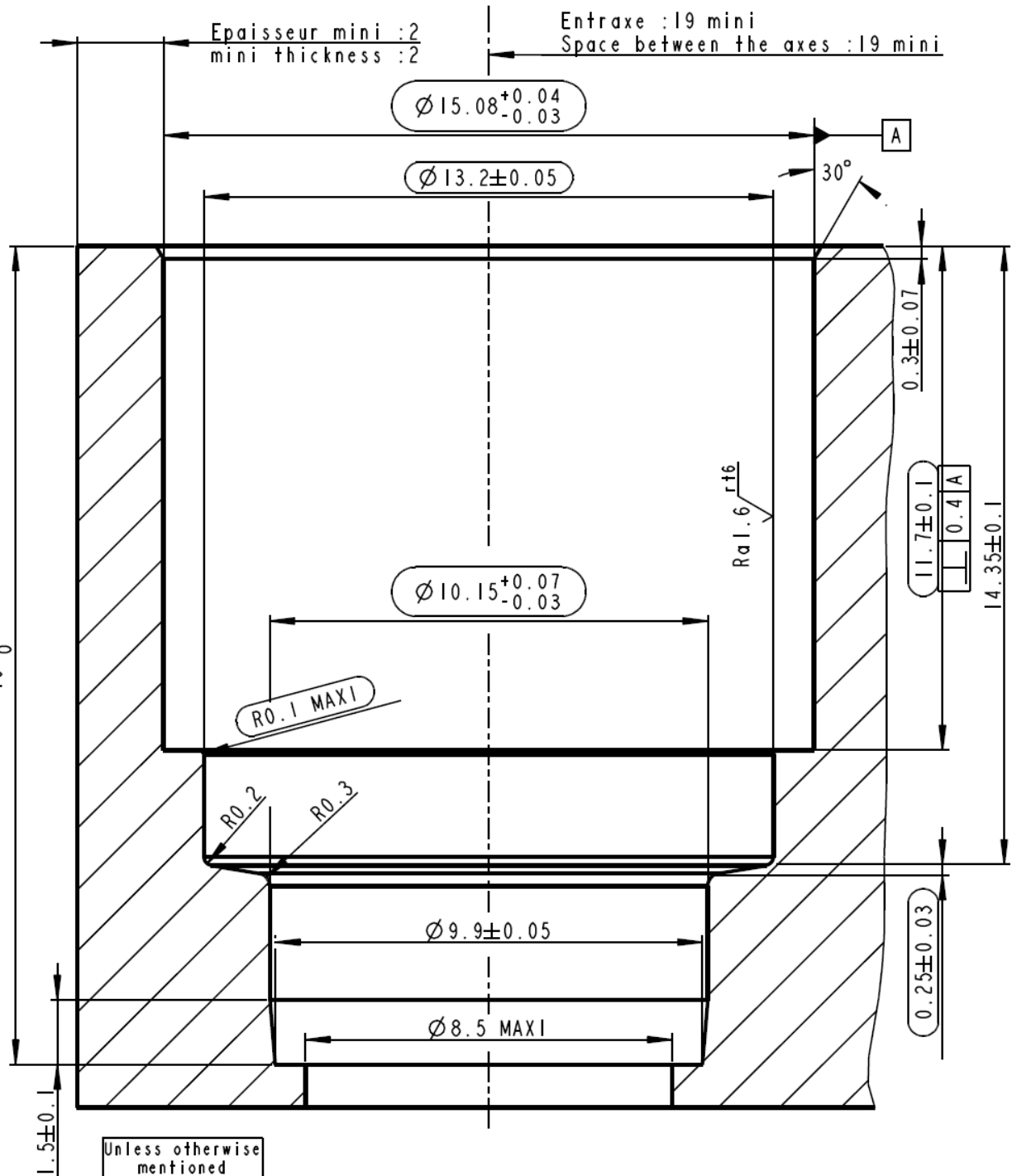
Index: 1

DATE DESCRIPTION DES MODIFICATIONS
NEW DESIGN VERIFIED 30/04/2009 par Jpouchard


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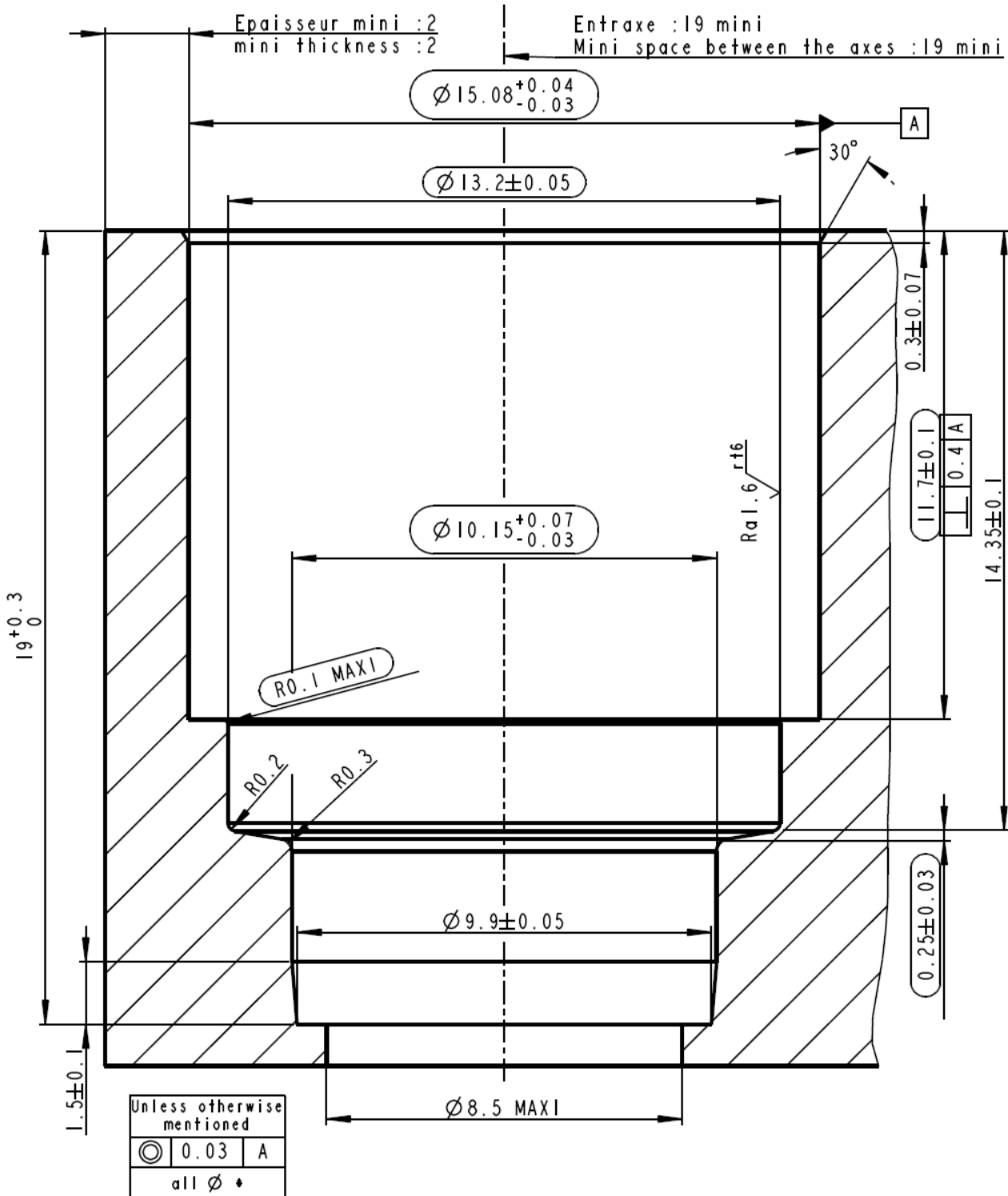


12-11-09	Update of the dimensions, of the general tolerances and of the material description.			C	CDS	COMMERCIAL REFERENCE	
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			A	PNT	-	
16-01-98	Rajout concentricité de 0.03 par rapport à A			01	BBC	GENERAL TOLERANCES	
16-07-97	Passage en référence définitive			-	BBC	DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG	Ra 0.8 ANG: ±1° DIA : N°FT 58000 RAD: ±0.05 LENG: Class P	
A4	SCALE: 7/1	TREATEMENT:					DEVELOPMENT
	SHEET: 1/1	MATERIAL : Polyamide 6.6 0 to 30% GF					-
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 10-03-97	LOGEMENT PLASTIQUE POUR CARTOUCHE LF3000 D10 PLASTIC HOLE FOR CARTRIDGE LF3000 D10			
	legris	APPROVED	-44510-30C				
MODIFICATION VERIFIED		19/11/2009 par LP859583					
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BED9201RE	
						Index :	



Unless otherwise mentioned		
⊙	0.03	A
all Ø *		

						COMMERCIAL REFERENCE	
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			A	PNT	-	
16-01-98	Rajout concentricité de 0.03 par rapport à A			01	BBC	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED	
16-07-97	Passage en référence définitive			-	BBC	Ra 3.2	ANG: ±1° DIA :
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG	✓	RAD: ±0.05 LENG:
A4	SCALE: 7/1	TREATMENT: anodisé ou pas / anodized or not					DEVELOPMENT
	SHEET: 1/1	MATERIAL : aluminium usiné / machining aluminium					-
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED PLQ	DATE 30-08-96	LOGEMENT ALUMINIUM POUR CARTOUCHE LF3000 D10 ALUMINIUM HOLE FOR CARTRIDGE LF3000 D10			
	legris	APPROVED	-44510-31A				
MODIFICATION VERIFIED							
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BED9201RE	
						Index : 1	



COMMERCIAL REFERENCE

16-07-09 Update drawing according to change request N°2009/602
Re-drawing on PRO/E

A PNT

GENERAL TOLERANCES
DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED

16-01-98 Rajout concentricité de 0.03 par rapport à A

01 BBC

Ra 3.2 ANG: $\pm 1^\circ$ DIA :

DATE DESCRIPTION OF MODIFICATIONS

IND ENG'G

✓ RAD: ± 0.05 LENG:

A4

SCALE: 7/1 TREATMENT: nickelé ou non / nickel plated or not

DEVELOPMENT

SHEET: 1/1 MATERIAL : laiton de décolletage / machining brass



legris

74, rue de Paris
BP70411
35704 RENNES Cedex 7
FRANCE

DESIGNED
BBC
APPROVED

DATE
06-11-97

LOGEMENT LAITON POUR CARTOUCHE LF3000 D10
BRASS HOLE FOR CARTRIDGE LF3000 D10

-44510-32A

MODIFICATION VERIFIED

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Updated : 25/01/02

Per : FGT

Achived : REBE

Reference : BED9201RE

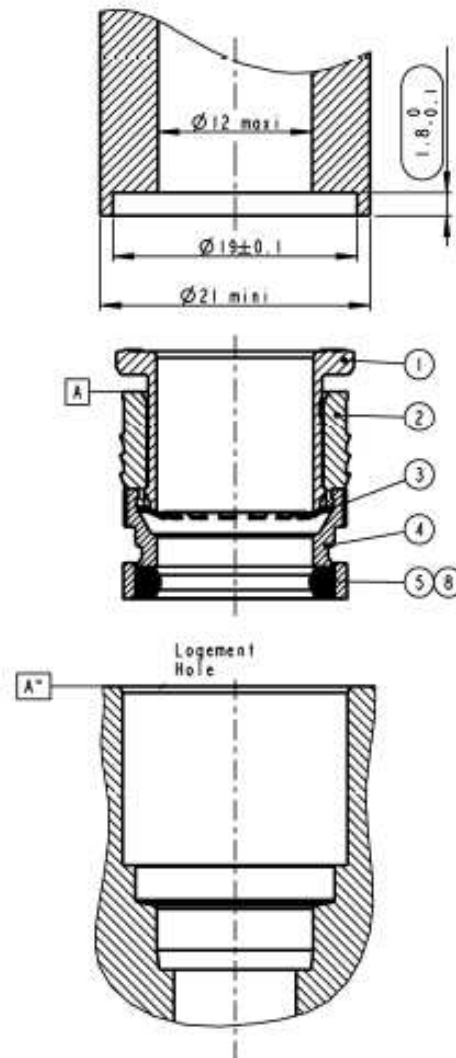
Index : I

CARTRIDGE CARSTICK[®] & HOUSING

REFERENCES: 12 mm tubing

Cartridge	6300 12 00
Nylon housing 0% to 30 % glass fiber	44512-30
Aluminum housing anodized or not	44512-31
CuZn40Pb3 nickel plated or not	44512-32

Profil outil de montage
Diagram of tool for mounting



ATTENTION:

Si ce profil d'outil ne peut pas être utilisé pour le montage de la cartouche, alors respecter A et A' sur le même plan. Décalage admis ± 0.1 après emmanchement. Tout décalage supérieur à la tolérance entraînerait un dysfonctionnement du produit.

BE CAREFUL:

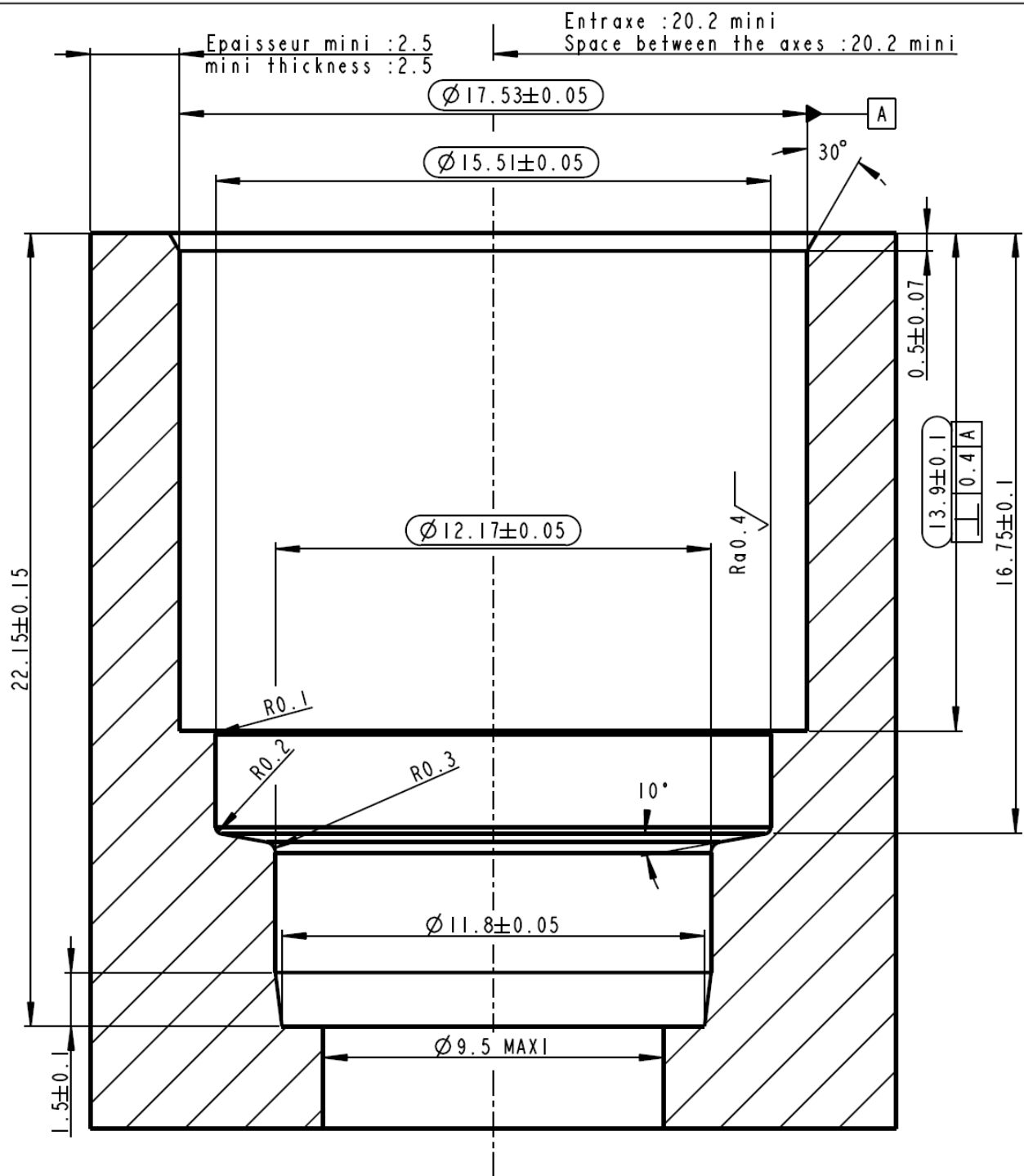
If this profile of tool can't be used for the assembly of the cartridge, then respect A and A' on the same level. Acceptable differences ± 0.1 after handling. All superior differences compare to the tolerance will mean a dysfunctioning of product.


Logement Hole	Référence plan Drawing part number
Nylon 0 à 30% FV/BV	44512-30
Aluminium anodisé ou non Anodized aluminium or not	44512-31
CuZn40Pb3 Nickelé ou non CuZn40Pb3 nickel-plated or not	44512-32

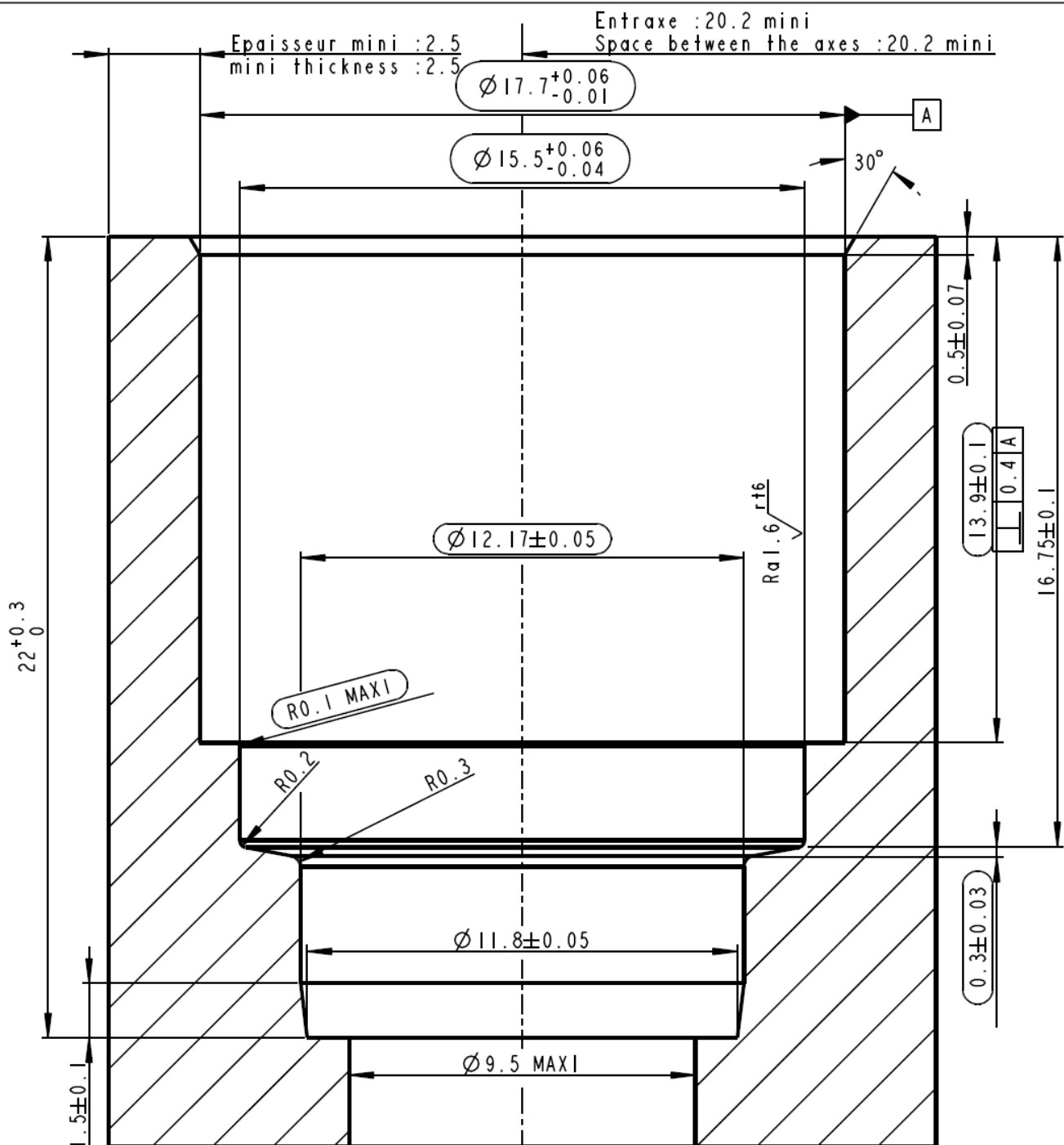
DATE		DESCRIPTION DES MODIFICATIONS		INDICENT		COMPONENT ACCEPTANCE ACCORDING TO BES0601		SCI : 0 SC : 0	WEIGHT (g) : 7.848 VOLUME (cm ³) : 1.963 AREA (dm ²) : 0.407 V300-12-00
GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED ANG : $\pm 1^\circ$ DIA : H13-h13 RAD : ± 0.05 LENG : Js13						A3 SCALE: 5/2 TREATMENT: SHEET: 2/2 MATERIAL:			
NEW DESIGN VERIFIED		30/04/2009 par lpouchard				78, rue de Paris 93191 93194 RENNES Cedex 7 FRANCE		REGION CCO APPROVED	DATE 08-Apr-09 DEVELOPMENT
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CARTOUCHE Ø12, PROFIL OUTIL DE MONTAGE, LOGEMENTS
CARTRIDGES Ø12, TOOL FOR MOUNTING AND HOLE DIAGRAM

-V300-12-00-

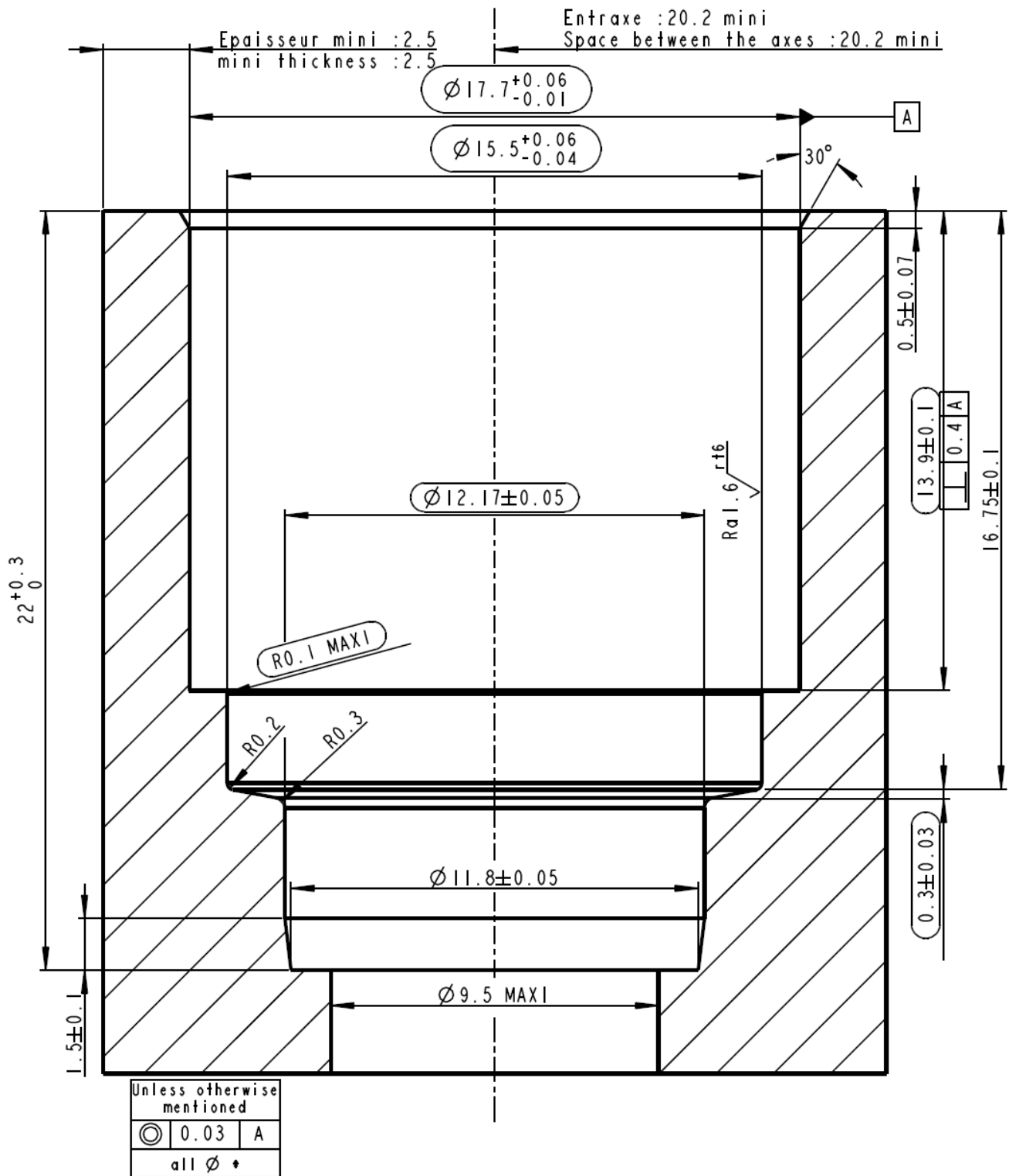



							COMMERCIAL REFERENCE
							-
12-11-09	Update of the dimensions, of the general tolerances and of the material description.				C	CDS	GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E				A	PNT	Ra 0.8 ANG: ±1° DIA : N°T 58000
DATE	DESCRIPTION OF MODIFICATIONS				IND	ENG	✓ RAD: ±0.05 LENG: Class P
A4	SCALE: 6/1	TREATEMENT:					DEVELOPMENT
	SHEET: 1/1	MATERIAL : Polyamide 6.6 0 to 30% GF					-
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 13-11-96	LOGEMENT PLASTIQUE POUR CARTOUCHE LF3000 D12 PLASTIC HOLE FOR CARTRIDGE LF3000 D12			
	legris	APPROVED	-44512-30C				
MODIFICATION VERIFIED		19/11/2009 par LP859583					
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Updated : 25/01/02		Per : FGT		Achived : REBE		Reference : BED9201RE	
						Index : I	



Unless otherwise mentioned		
	0.03	A
all \varnothing *		

				COMMERCIAL REFERENCE			
				-			
				GENERAL TOLERANCES			
				DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED			
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			A	PNT	Ra 3.2	ANG: $\pm 1^\circ$
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG	G	DIA :
A4	SCALE: 6/1	TREATEMENT: anodisé ou pas / anodized or not			RAD: ± 0.05		
SHEET: 1/1	MATERIAL : aluminium usiné / machining aluminium			LENG:			DEVELOPMENT
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 04-03-99	LOGEMENT ALUMINIUM POUR CARTOUCHE LF3000 D12 ALUMINIUM HOLE FOR CARTRIDGE LF3000 D12			
		APPROVED	-44512-31A				
MODIFICATION VERIFIED							
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						Index : I	



				COMMERCIAL REFERENCE			
				-			
				GENERAL TOLERANCES DIMENSIONS ARE IN MM, UNLESS OTHERWISE SPECIFIED			
16-07-09	Update drawing according to change request N°2009/602 Re-drawing on PRO/E			A	PNT	Ra 3.2	ANG: $\pm 1^\circ$
DATE	DESCRIPTION OF MODIFICATIONS			IND	ENG'G	✓	RAD: ± 0.05
A4	SCALE: 6/1	TRETEMENT: nickelé ou pas / nickel plated or not					DEVELOPMENT
	SHEET: 1/1	MATERIAL : laiton de décolletage / machining brass					-
74, rue de Paris BP70411 35704 RENNES Cedex 7 FRANCE		DESIGNED BBC	DATE 04-03-99	LOGEMENT LAITON POUR CARTOUCHE LF3000 D12 BRASS HOLE FOR CARTRIDGE LF3000 D12			
 legris		APPROVED	-44512-32A				
MODIFICATION VERIFIED							
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						Index : I	