

ISA SPECIALITY

Cal 8172 / 220

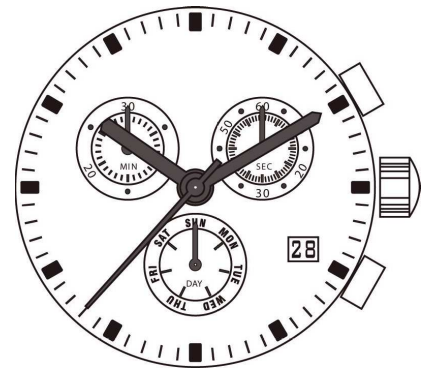


SWISS MADE



FAR EAST ASSEMBLY

11 1/2 '''
25.60 mm
H. 4.20



In conformity with RoHS standard

CHRONOGRAPHS

10h



30 Mins.
Chrono

6h

MON

Day by
Hand

28

Date by
window

2h



Small Sec.

EOL

End Of Life

ISASWISS
WATCH MECHANISMS



Caractéristiques :

Mouvement électronique à quartz. Moteur bi-rotor breveté. Moteurs rotatifs pas à pas. Petite seconde, 1 pas par seconde.
6 Aiguilles.
Tige 3 positions.
Jour par aiguille.
Quantième par guichet, correcteur de quantième rapide.
Trotteuse chronographe centrale, cinq pas par seconde. Compteur de minutes, 30 minutes, 1 pas par minute. Arrêt et remise à zéro automatique après 2 heures de chronométrage.
Fin de vie (EOL): Déplacement de l'aiguille de petite seconde de 4 pas toutes les 4 secondes.
Dispositif stop mécanique et électronique.

Characteristics :

Electronic quartz movement. Patented double rotor motor. Rotating stepping motors. Small second, 1 step per second.
6 Hands.
Stem 3 positions.
Day by hand.
Date by window, quick date correction.
Central chronograph trotteuse, five steps per second. Minute-counter, 30 minutes, 1 step per minute. Autostop and reset after 2 hours of timing.
End of life (EOL): Indication by small second hand jumping 4 successive steps every 4 seconds.
Stop device and current breaker.

Kennzeichnungen :

Elektronisches Quarzwerk. Patentierter Zweirotor Motor. Schrittschaltmotor Kleine Sekunde, 1 Schritt pro Sekunde.
6 Zeiger.
Stellwelle 3 Positionen.
Kleiner Tagszeiger.
Rasche Korrektur des Datums mittels Stellwelle.
Zentraler Chrono Zeiger, fünf Schritte pro Sekunde. 30 Minuten Zähler, 1 Schritt pro Minute. Stop und automatische Nullstellung nach 2 Zeitmessungstunden.
Batterie-End-Anzeige (EOL): Vorrücken des Sekundenzeigers alle 4 Sekunden (4-Schritt-Motorimpuls).
Möglichkeit mechanisch oder elektrisch zu stoppen.

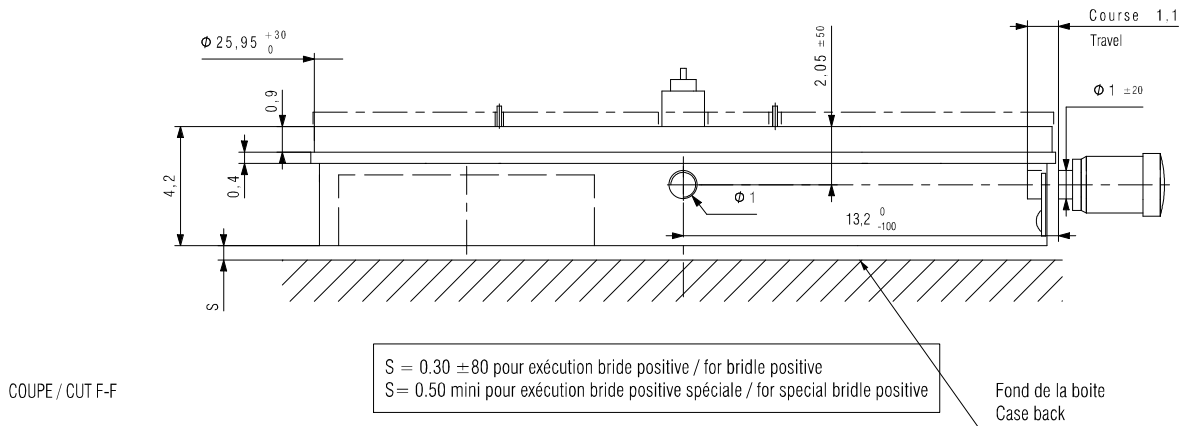
Critères Criteria Kriterium	Conditions Conditions Bedingungen	Min.	Typ.	Max.	Unités Units Einheit
Consommation Current consumption Stromaufnahme	U=1.55V T=25°C		1.35		µA
Marche instantanée Instantaneous rate Momentaner Gang	U=1.55V T=25°C	-0.5 (-15)		+ 0.5 (+15)	s/jour s/day s/Tag (s/mois s/month s/Monat)
Température de fonctionnement Operating temperature Betriebstemperatur		0		+ 50	°C
Résistance aux champs magnétiques Resistance to magnetic fields Magnetfeldabschirmung			1500 (18.8)		A/m (Oe)

Qté Qty Menge	Désignation Designation Bezeichnung	Type Model Typ	Tension Voltage Spannung	Code Code Code	Capacité Capacity Kapazität	Autonomie théorique Theoretical Autonomy Theoretische Gangreserve
1	Pile Battery Batterie 9.50 x 2.70	SR 927 W	1.55 V	395	55 mAh	57 mois 41 * months Monate

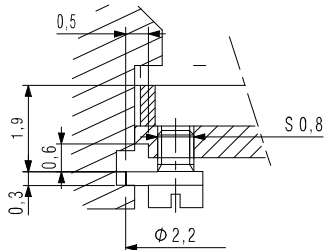
DIMENSIONS IN mm. - TOLERANCES IN µm.

* Avec chrono 1h / j - With chrono 1h / d - Mit chrono 1St./T

CAGE (POUSOIRS RADIAUX) / FRAME (RADIAL PUSHERS)

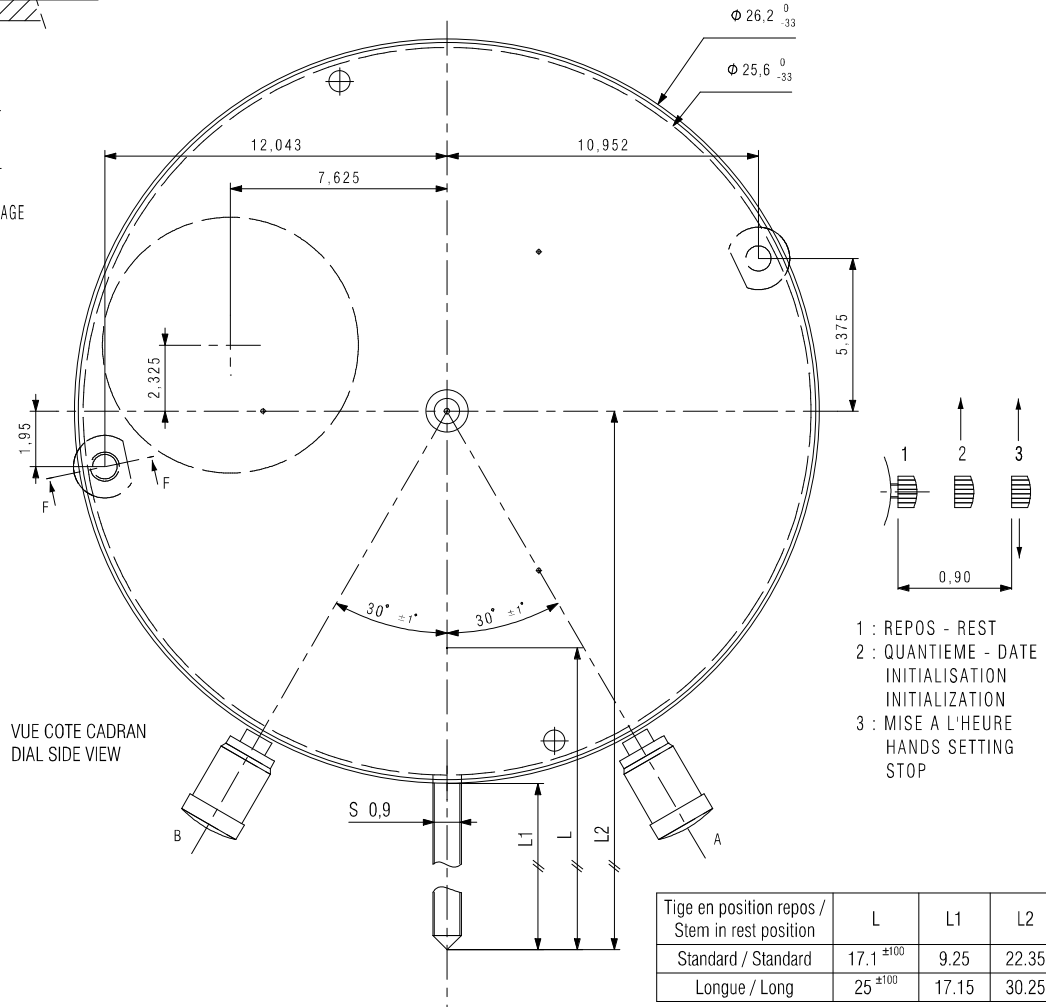


COUPE / CUT F-F



FIXATION DU MOUVEMENT
FASTENING OF MOVEMENT

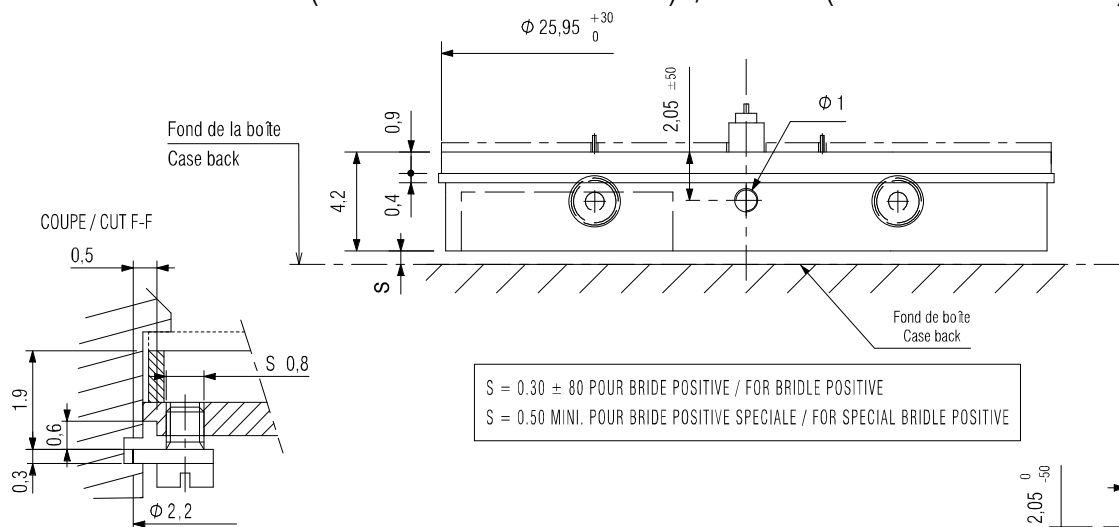
CLEFS DE FIXE OU CERCLE D'EMBOITAGE
CASE SCREWS OR CASING RING
AUTRES FIXATIONS POSSIBLES
OTHER FIXATIONS POSSIBLES



DIMENSIONS IN mm. - TOLERANCES IN μm .



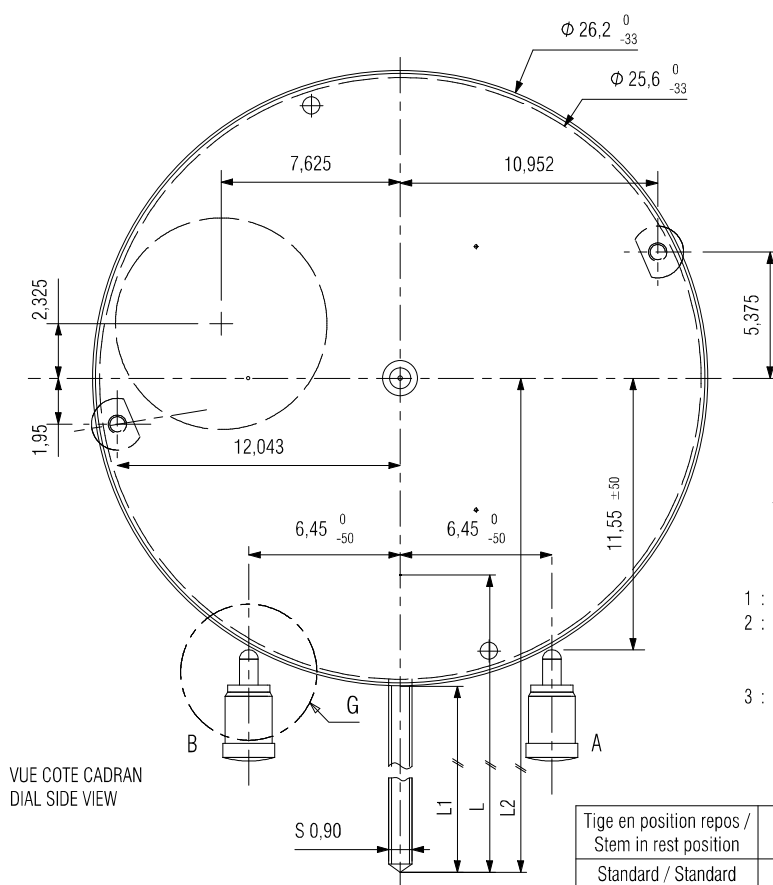
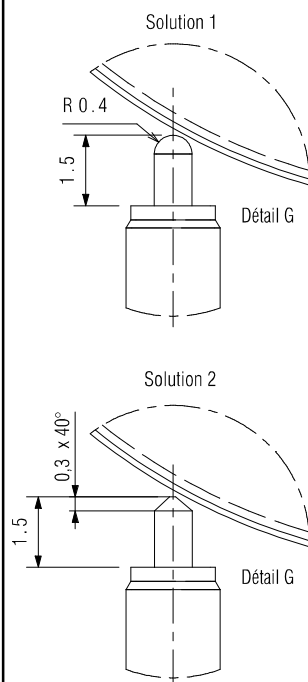
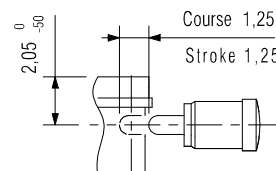
CAGE (POUSOIRS PARALLELES) / FRAME (PARALLEL PUSHERS)



FIXATION DU MOUVEMENT
FASTENING OF MOVEMENT

CLEFS DE FIXE OU CERCLE D'EMBOITAGE
CASE SCREWS OR CASING RING

AUTRES FIXATIONS POSSIBLES
OTHER FIXATIONS POSSIBLES

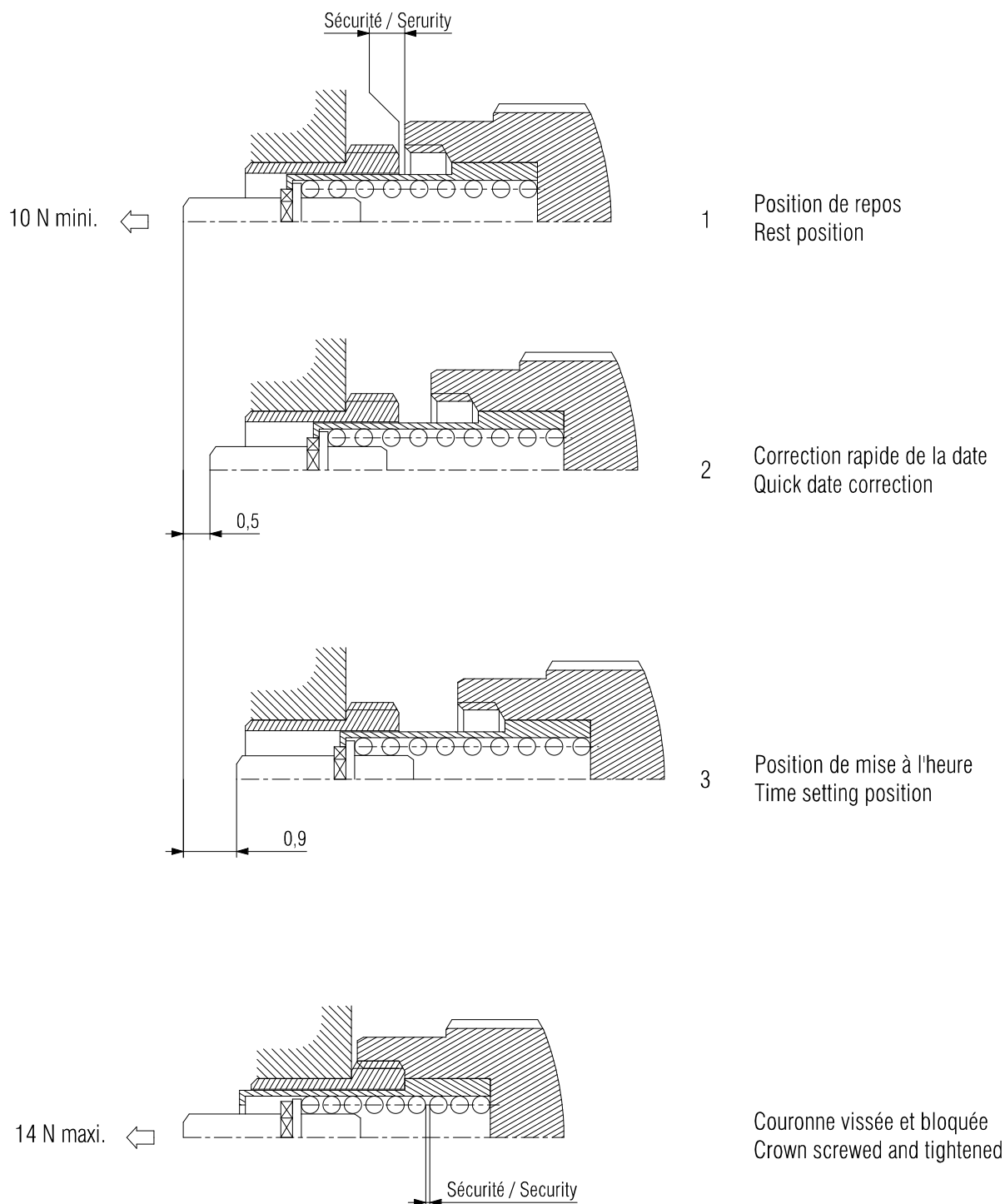


- 1 : REPOS - REST
- 2 : QUANTIEME - DATE
INITIALISATION
INITIALIZATION
- 3 : MISE A L'HEURE
HANDS SETTING
STOP

Tige en position repos / Stem in rest position	L	L1	L2
Standard / Standard	17.1 ± 100	9.25	22.35
Longue / Long	25 ± 100	17.15	30.25

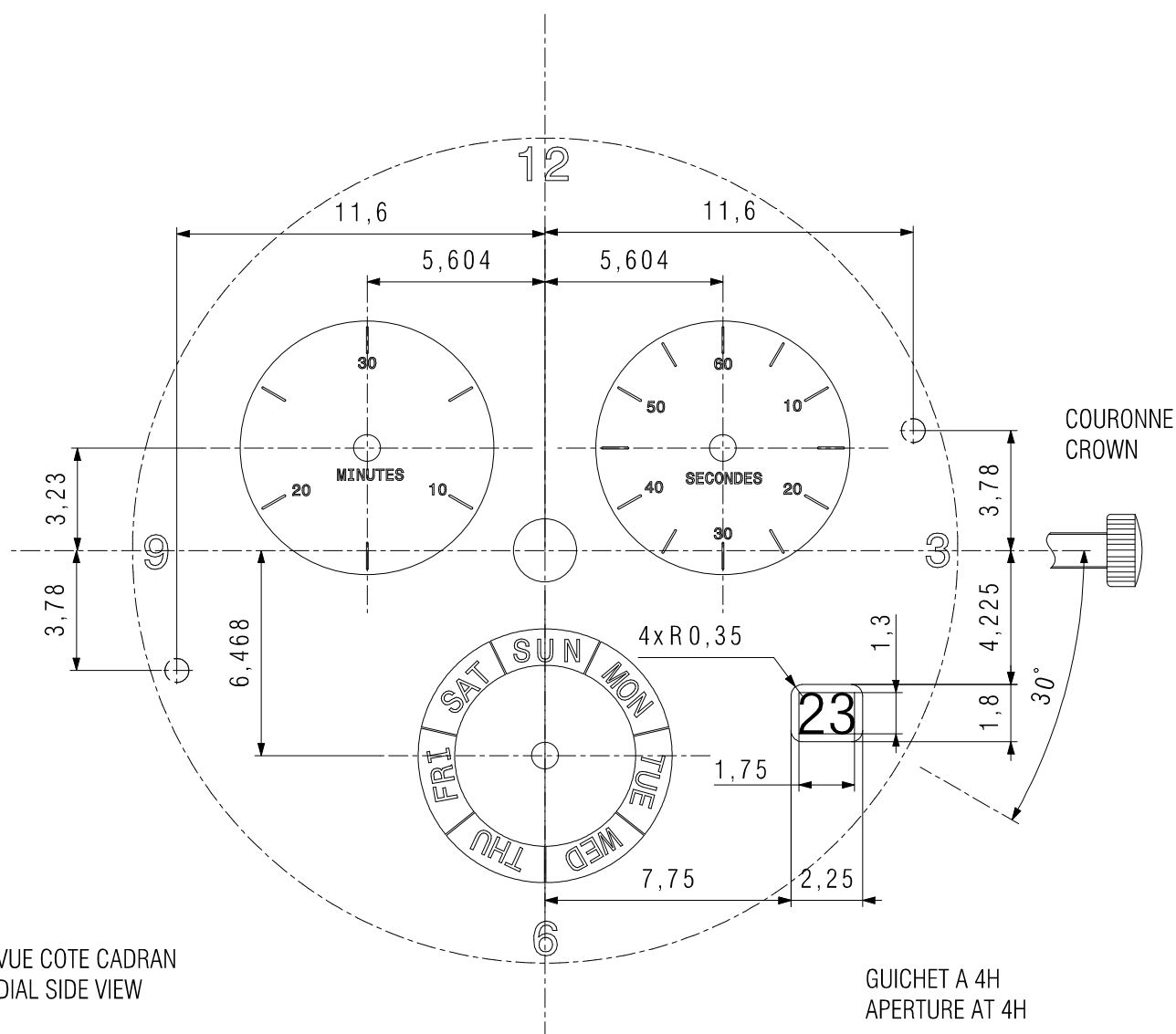
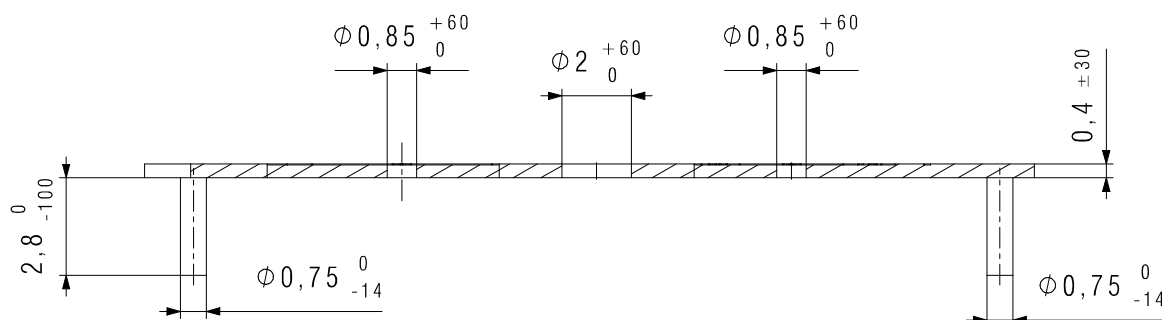
DIMENSIONS IN mm. - TOLERANCES IN μm .

UTILISATION DE COURONNES VISSEES / USE SCREWED CROWN





CADRAN / DIAL

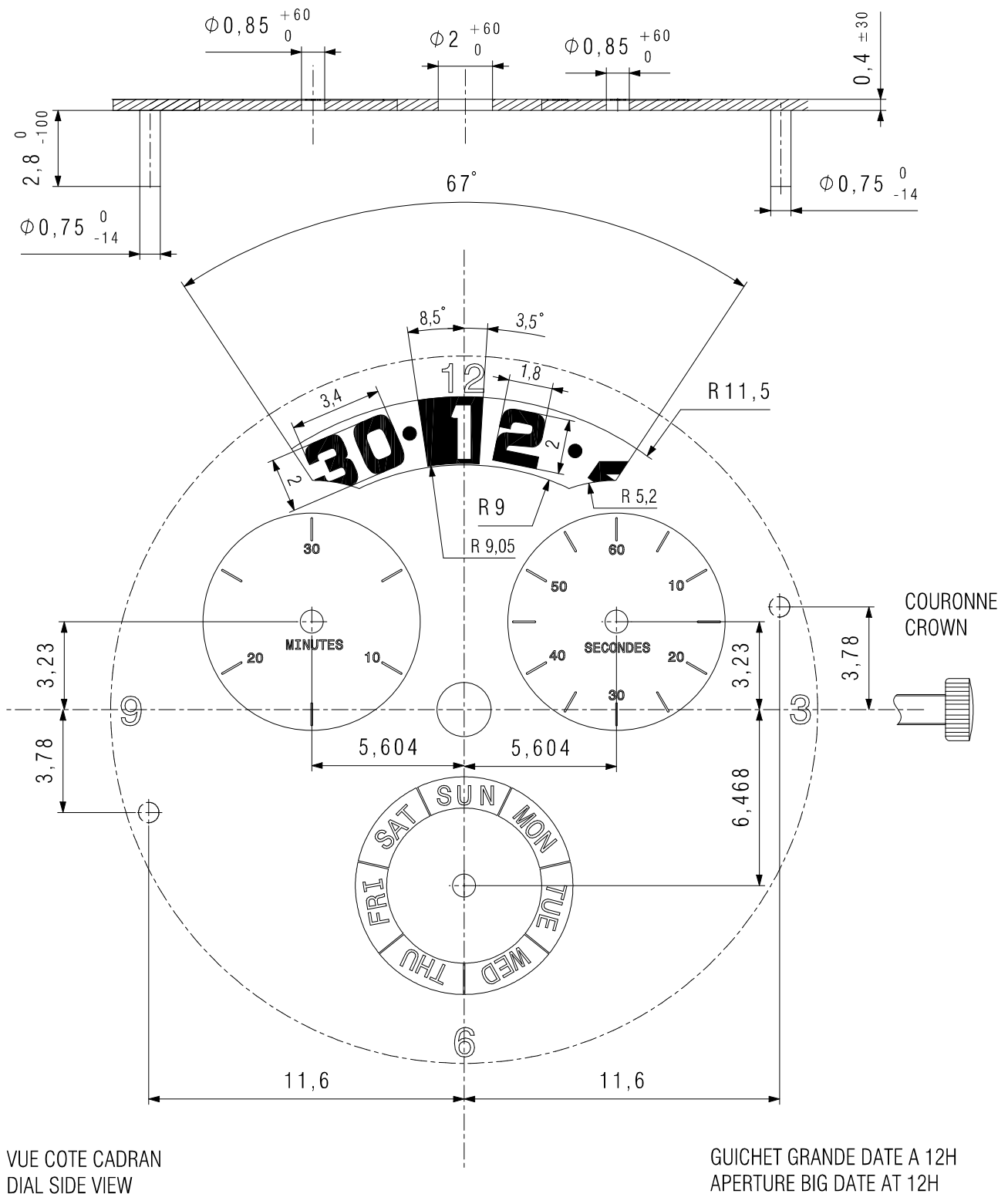


VUE COTE CADRAN
DIAL SIDE VIEW

DIMENSIONS IN mm. - TOLERANCES IN μ m.

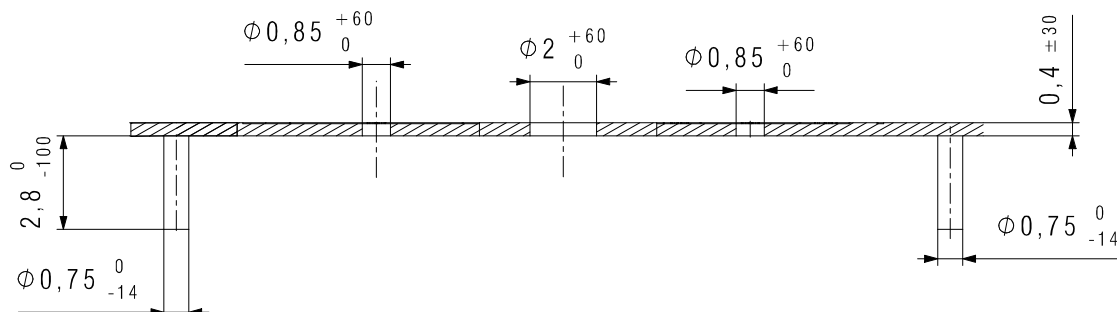


CADRAN / DIAL



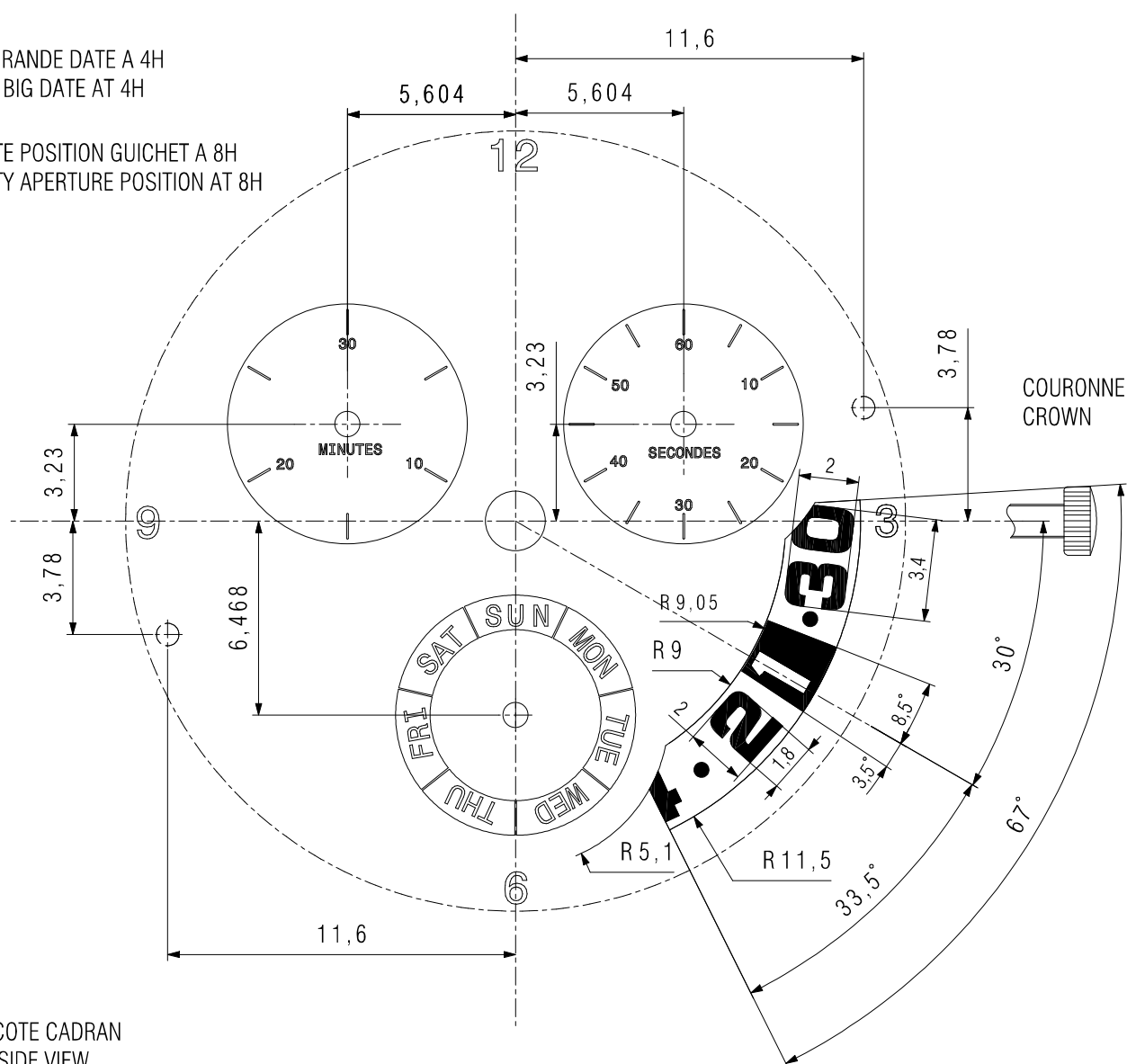
DIMENSIONS IN mm. - TOLERANCES IN μm .

CADRAN / DIAL



GUICHET GRANDE DATE A 4H
APERTURE BIG DATE AT 4H

POSSIBILITE POSITION GUICHET A 8H
 POSSIBILITY APERTURE POSITION AT 8H



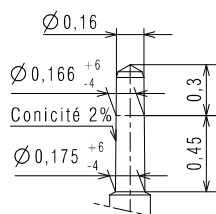
VUE COTE CADRAN
DIAL SIDE VIEW

DIMENSIONS IN mm. - TOLERANCES IN μ m.



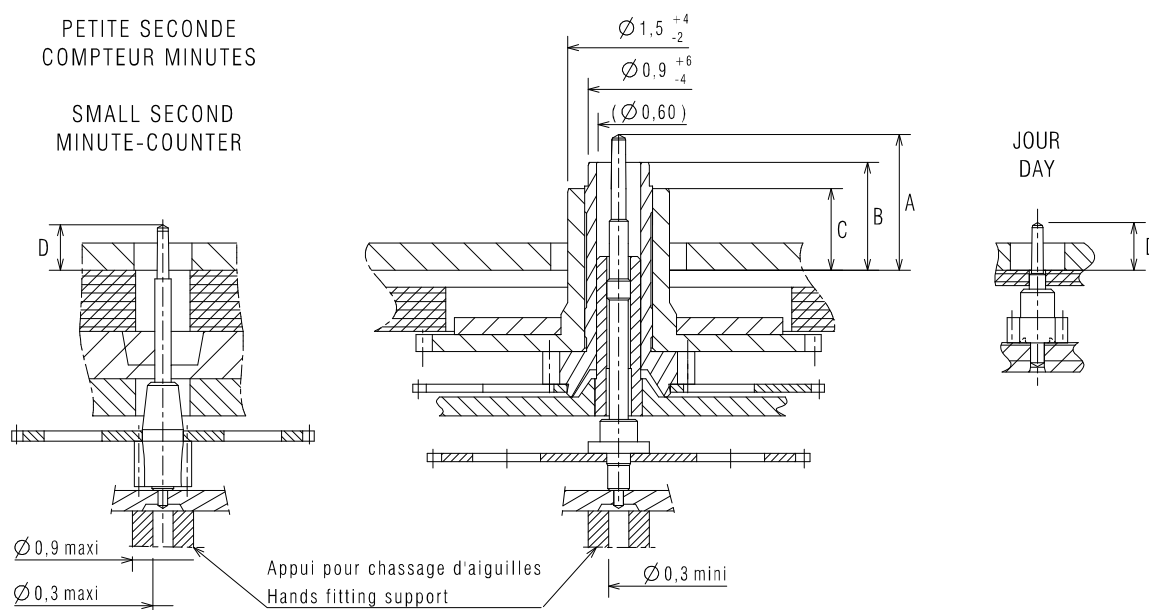
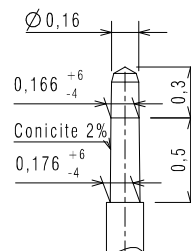
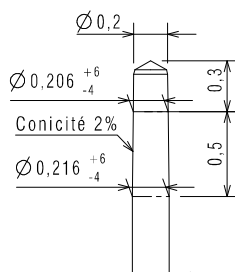
AIGUILLAGE / HAND-FITTING

AUTRES AIGUILLAGES SUR DEMANDE
OTHER HAND-FITTING ON REQUEST



PETITE SECONDE
COMPTEUR MINUTES

SMALL SECOND
MINUTE-COUNTER



JOUR
DAY

AIGUILLAGE / HAND-FITTING	Dépassement / Height over dial seat				Epaisseur cadran / Dial Thickness
	A	B	C	D	
	Pignon Central / Central wheel pinion	Chaussée / Cannon pinion	Roue des heures / Hour wheel	Pignon petit(s) comp- teur(s) / Small counter (s) wheel pinion	
N°2	2.05	1.60	1.20	0.70	0.40
N°3 Spécial	2.25	1.80	1.40	0.70	0.40
Hauteur tube / Pipe height	0.70	0.35	0.60	0.70	—

CHOCs 450 g / 450 g SHOCKS	Balourd / Unbalance	FORCE DE CHASSAGE / PRESS-IN-FORCE
Aiguille des heures - Hour Hand	—	≤ 25 N
Aiguille des minutes - Minute Hand	≤ 10 µNm	≤ 25 N
Trotteuse centrale - Central Hand	≤ 0.8 µNm	≤ 25 N
Aiguilles des petits compteurs - Small counters Hands	≤ 0.2 µNm	≤ 20 N

DIMENSIONS IN mm. - TOLERANCES IN µm.

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FAR EAST ASSEMBLY

11 1/2'''
25.60 mm

EXEMPLE DE PRESENTATION
DESIGN SAMPLE



In conformity with RoHS standard

Doc. n° 0312141 - E Up date : 05/12/2012 - Page 10

ISASWISS
WATCH MECHANISMS

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