

ISA SPECIALITY

Cal 8172 / 220

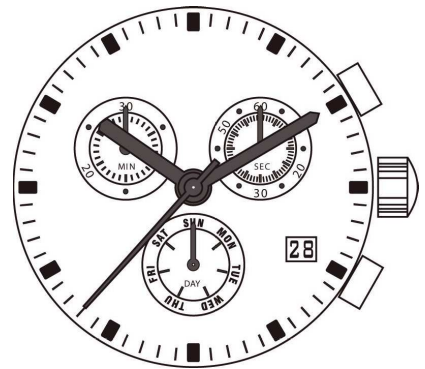


SWISS MADE



FAR EAST ASSEMBLY

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



In conformity with RoHS standard

CHRONOGRAPHS

10h



30 Mins.
Chrono

6h



Day by
Hand



Date by
window

2h



Small Sec.



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.
 3 rubis.

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.
 3 jewels.

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.
 3 Steine.

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 Kode	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

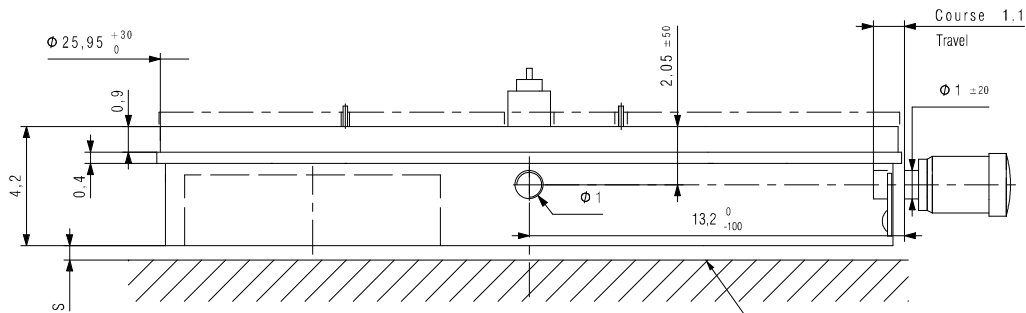
DIMENSIONS IN mm. - TOLERANCES IN µm.

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

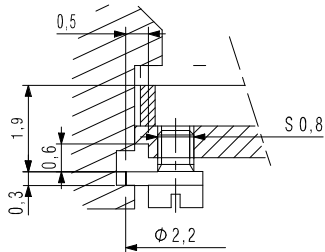
In conformity with RoHS standard

Doc. n° 0312141 - F Up date : 26/02/2014 - Page 2

CAGE (POUSSOIRS RADIAUX) / FRAME (RADIAL PUSHERS)



COUPE / CUT F-F

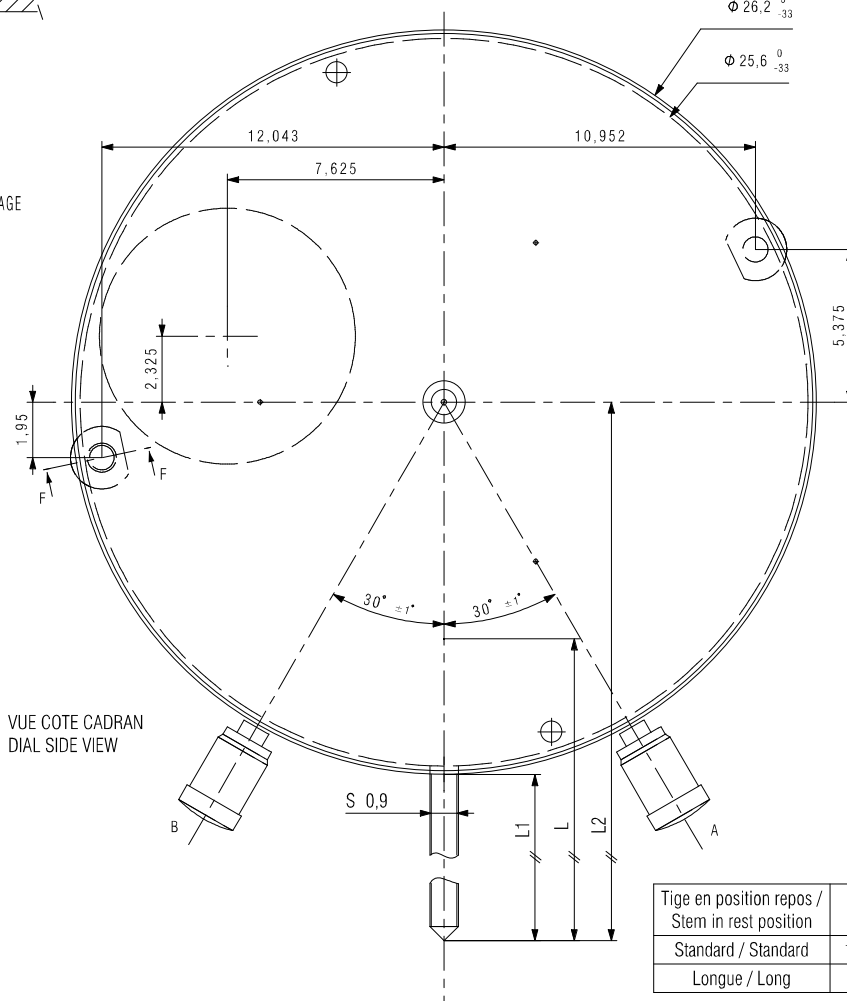


FIXATION DU MOUVEMENT
FASTENING OF MOVEMENT

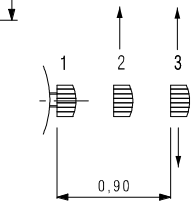
CLEFS DE FIXE OU CERCLE D'EMBOITAGE
CASE SCREWS OR CASING RING
AUTRES FIXATIONS POSSIBLES
OTHER FIXATIONS POSSIBLES

S = 0.30 ± 0.080 pour exécution bride positive / for bridle positive
S = 0.50 mini pour exécution bride positive spéciale / for special bridle positive

Fond de la boîte
Case back



VUE COTE CADRAN
DIAL SIDE VIEW

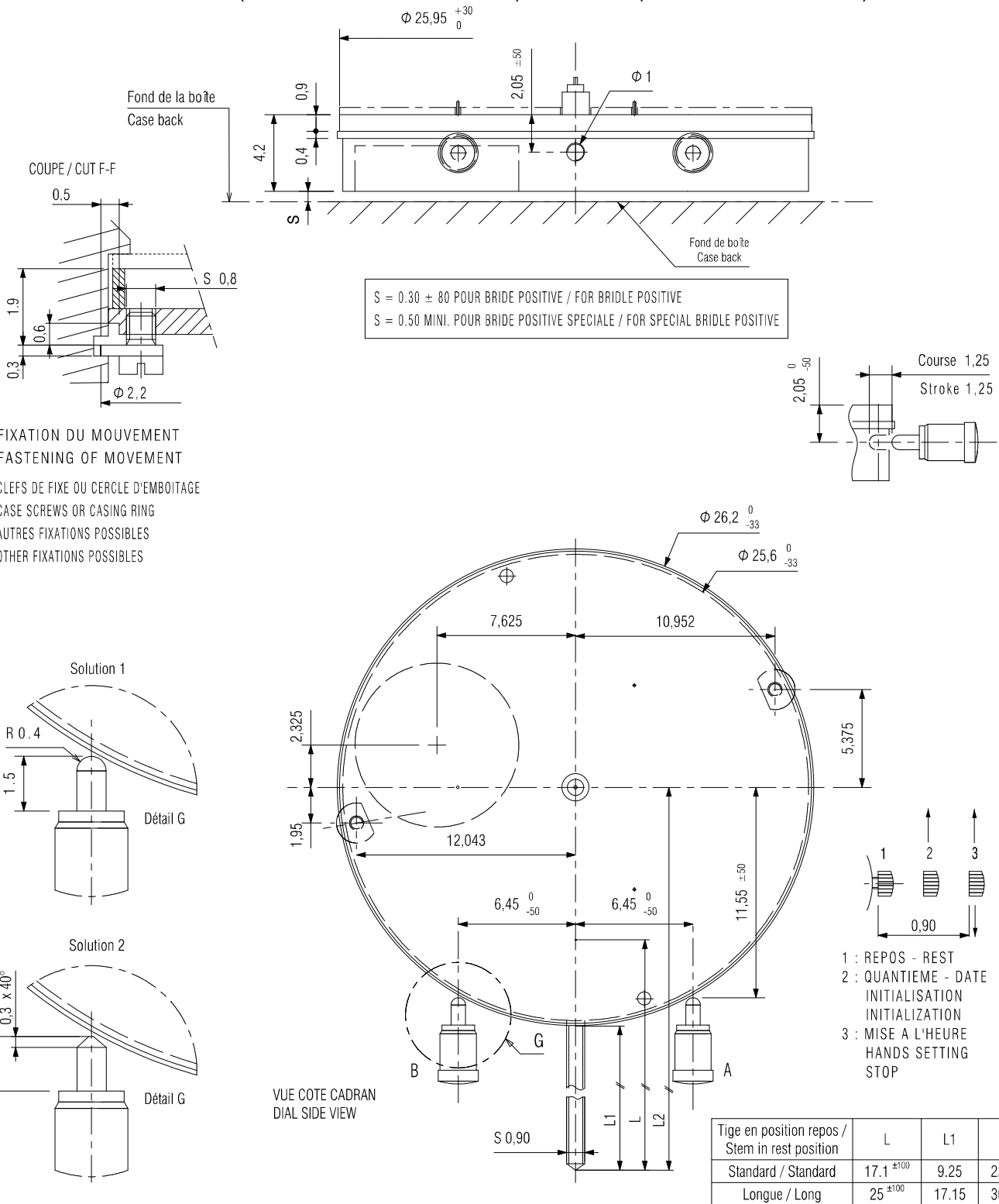


- 1 : REPOS - REST
- 2 : QUANTIEME - DATE
INITIALISATION
INITIALIZATION
- 3 : MISE A L'HEURE
HANDS SETTING
STOP

Tige en position repos / Stem in rest position	L	L1	L2
Standard / Standard	17.1 ± 0.100	9.25	22.35
Longue / Long	25 ± 0.100	17.15	30.25

DIMENSIONS IN mm. - TOLERANCES IN µm.

CAGE (POUSSOIRS PARALLELES) / FRAME (PARALLEL PUSHERS)

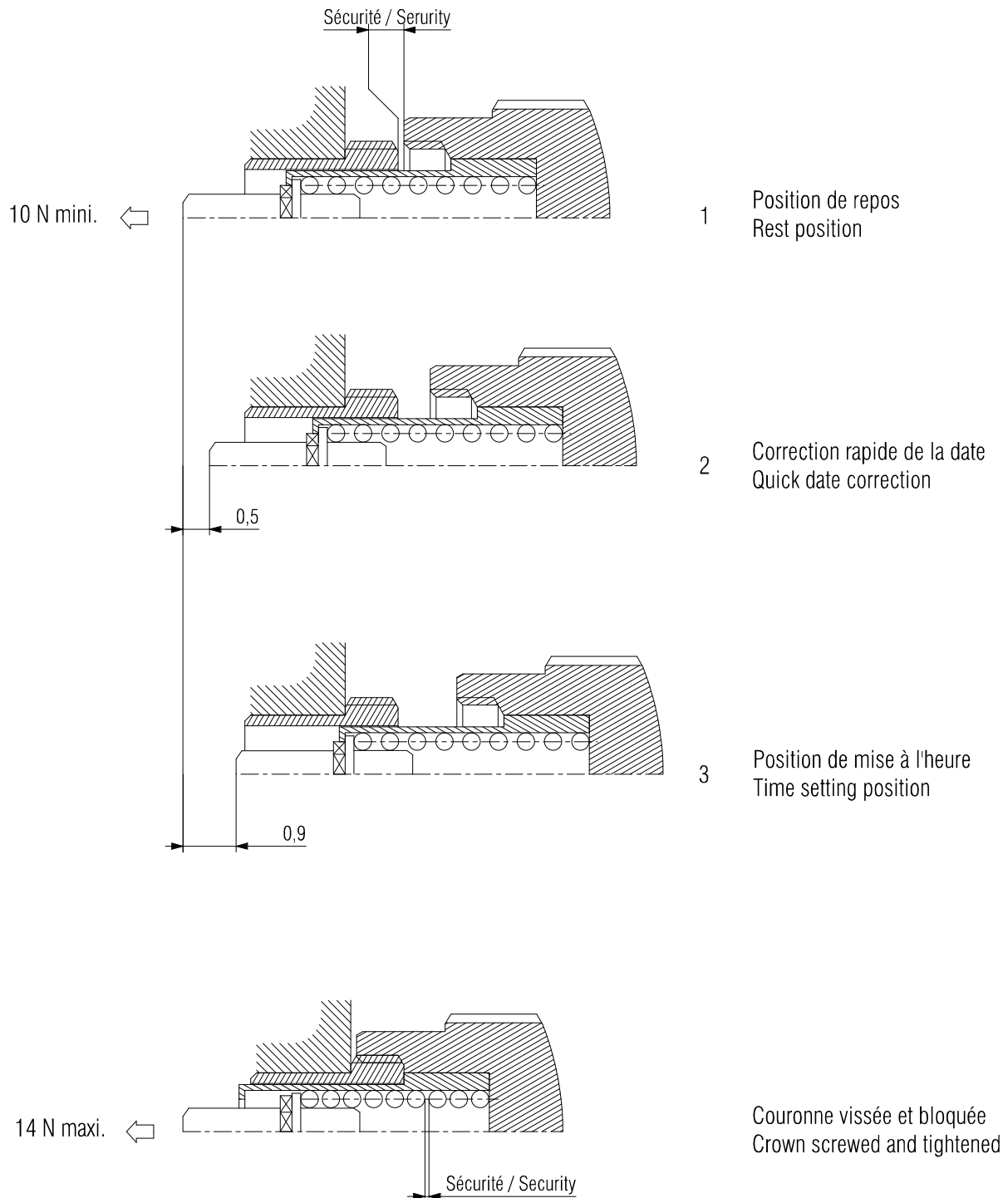


DIMENSIONS IN mm. - TOLERANCES IN μ m.

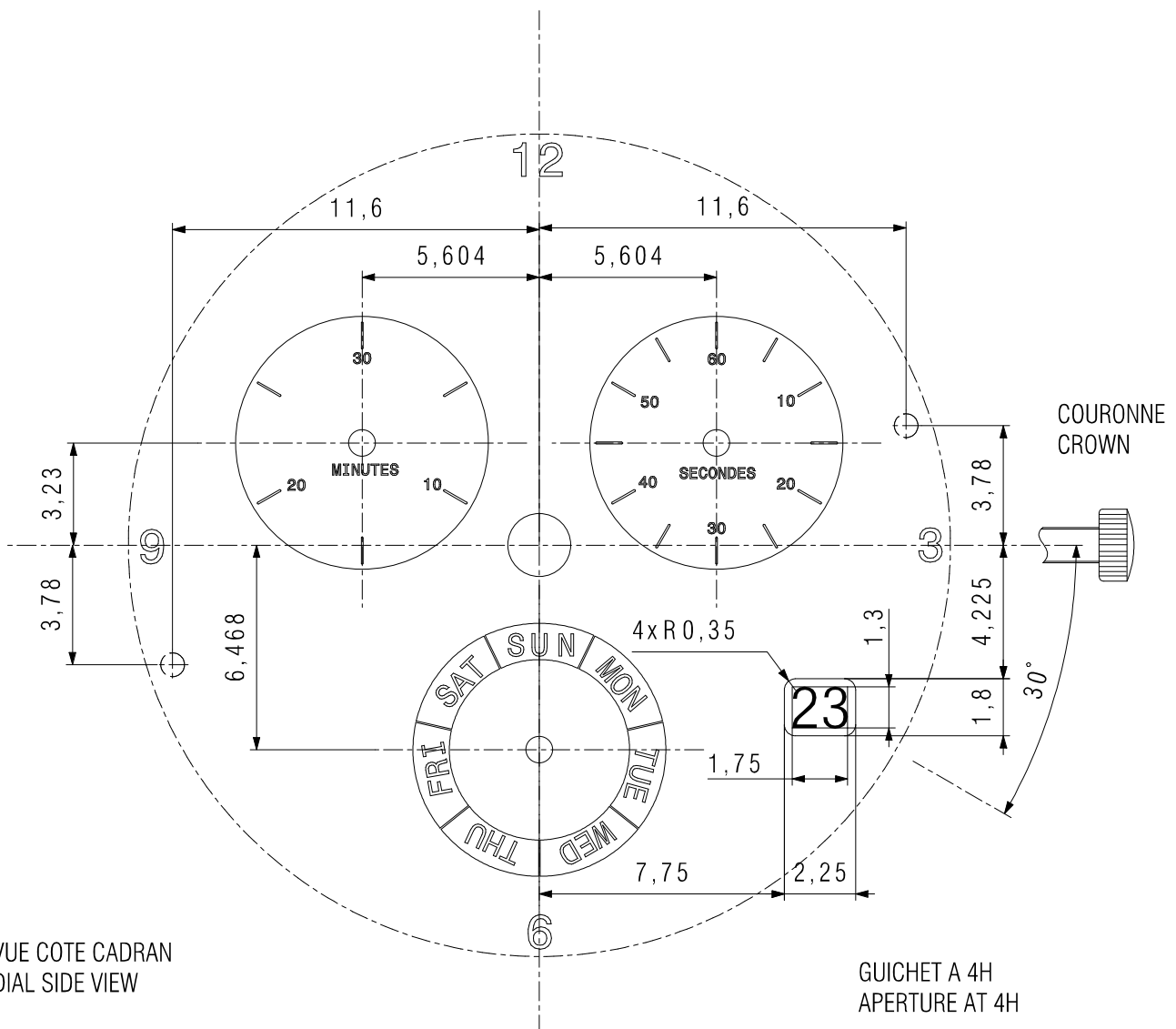
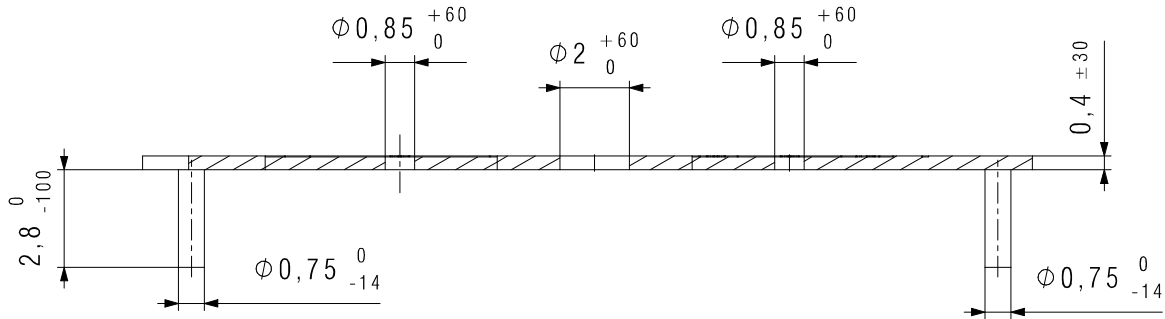
In conformity with RoHS standard

Doc. n° 0312141 - F Up date . 26/02/2014 - Page 4

UTILISATION DE COURONNES VISSEES / USE SCREWED CROWN



CADRAN / DIAL



VUE COTE CADRAN
DIAL SIDE VIEW

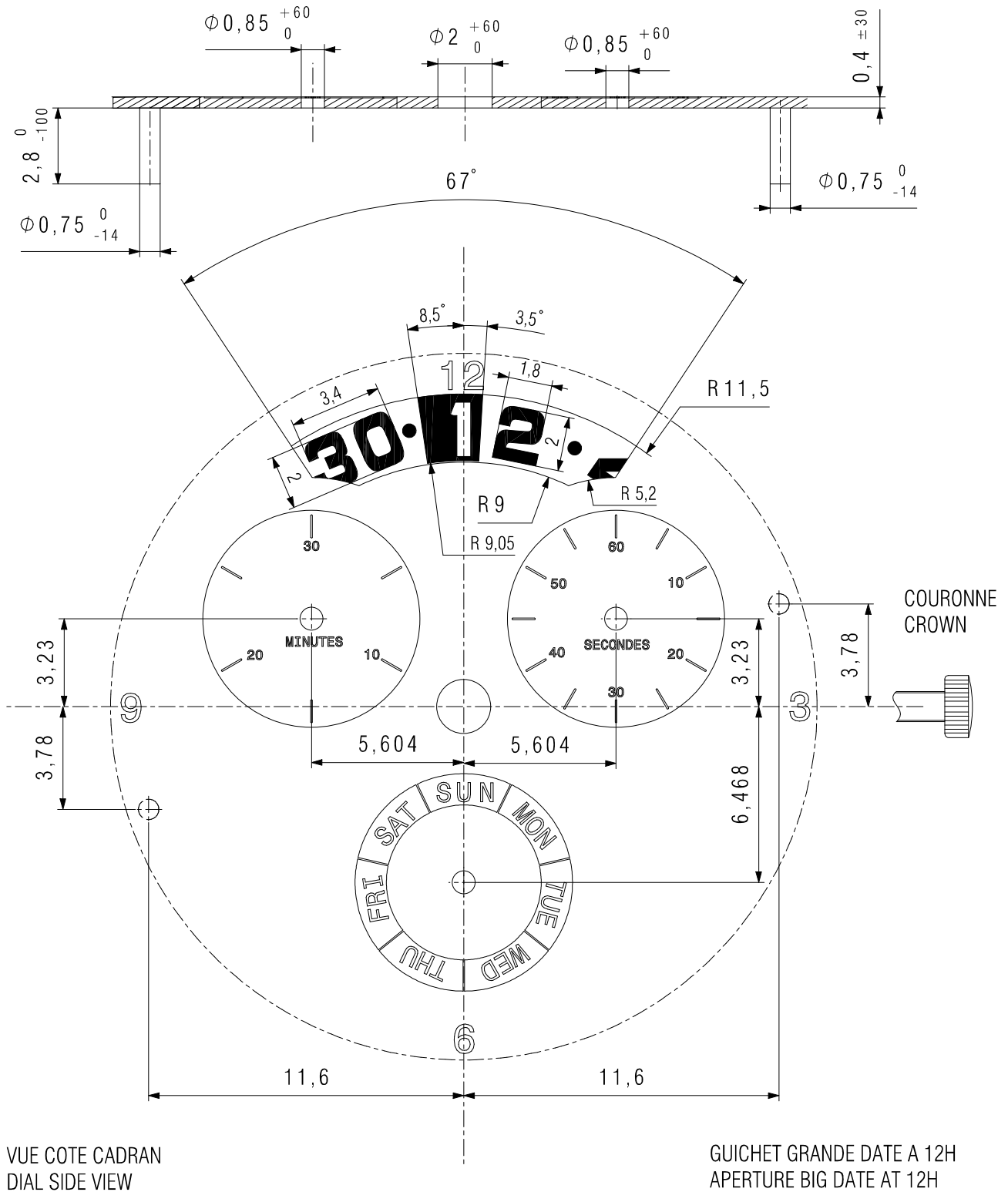
GUICHET A 4H
APERTURE AT 4H

DIMENSIONS IN mm. - TOLERANCES IN μm .

In conformity with RoHS standard

Doc. n° 0312141 - F Up date . 26/02/2014 - Page 6

CADRAN / DIAL



VUE COTE CADRAN
DIAL SIDE VIEW

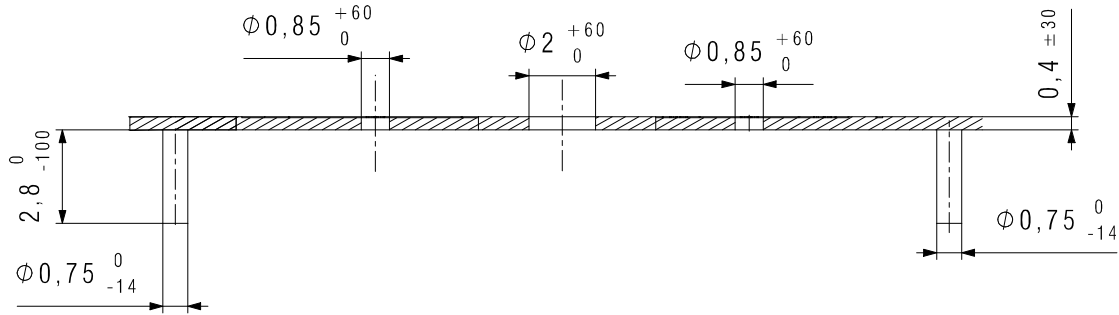
GUICHET GRANDE DATE A 12H
APERTURE BIG DATE AT 12H

DIMENSIONS IN mm. - TOLERANCES IN μ m.

In conformity with RoHS standard

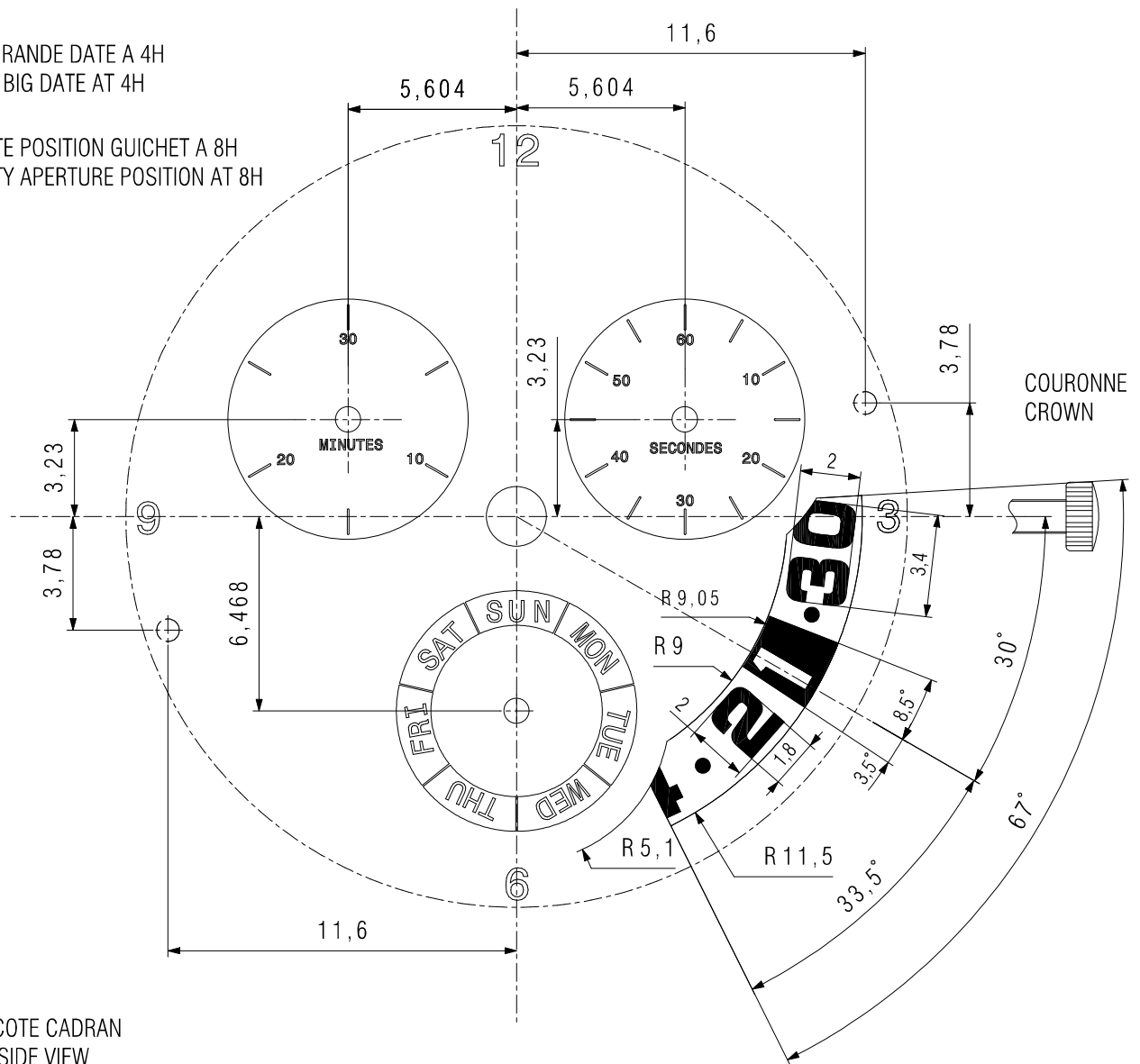
Doc. n° 0312141 - F Up date . 26/02/2014 - Page 7

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

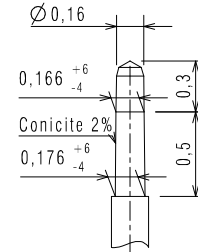
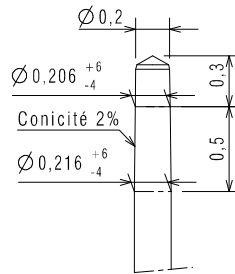
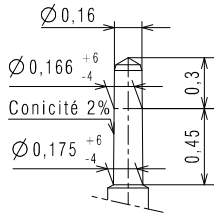
DIMENSIONS IN mm. - TOLERANCES IN μ m.

In conformity with RoHS standard

Doc. n° 0312141 - F Up date . 26/02/2014 - Page 8

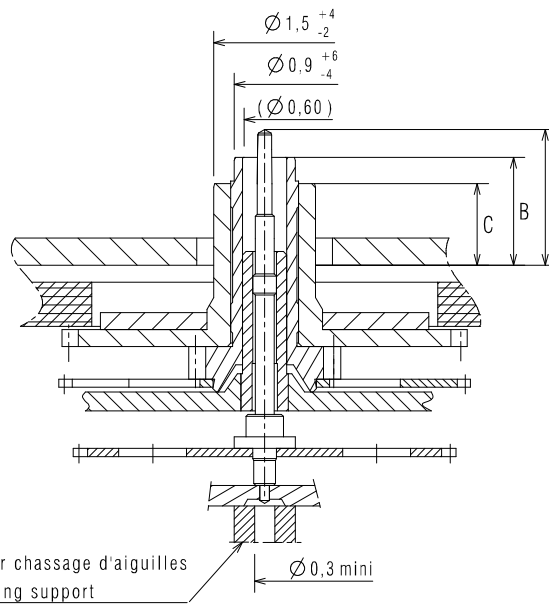
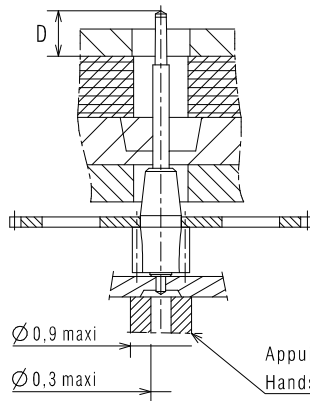
AIGUILLAGE / HAND-FITTING

AUTRES AIGUILLAGES SUR DEMANDE
OTHER HAND-FITTING ON REQUEST

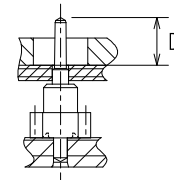


PETITE SECONDE
COMPTEUR MINUTES

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) compte- 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.

In conformity with RoHS standard

Doc. n° 0312141 - F Up date : 26/02/2014 - Page 9

ISASPECIALITY

8172 / 220



SWISS MADE

FAR EAST ASSEMBLY

11 1/2'''
25.60 mm

EXEMPLE DE PRESENTATION
DESIGN SAMPLE



In conformity with RoHS standard

Doc. n° 0312141 - F Up date . 26/02/2014 - Page 10

ISASWISS
WATCH MECHANISMS

www.isaswiss.com

ISA SWISS S.A.
Champ-Nauger 2
CH -2416 Les Brenets
Switzerland
Tél +41 (0)32 930 80 85
Fax +41 (0)32 930 80 86

ISA PACIFIC Co. Ltd.
Room 1605, Eastern Center
1065 King's Road, Quarry Bay,
Hong-Kong
Tél +852 21 68 33 88
Fax +852 25 18 30 33