

Watch Movement Specification and Drawing

MULTI - FUNCTION

Cal. VX9PE

Movement Size

12 3/4""

Casing Diameter

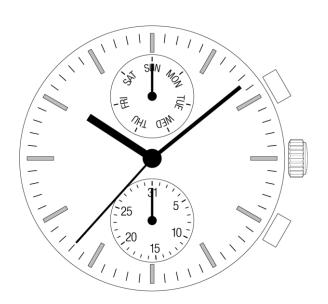
Ø 28.6mm

Height

3.99mm

Battery Life

3 years



Date: 18/Sep./'20

Cal. VX9PE

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Cal.

VX9PE

Specifications

Date: 18/Sep./'20

Rev.: 04

Analog Quartz 12 3/4" Movement / 3 hands (H/M/S) and 2 eyes with Day / Date indicators

1. MOVEMENT DIMENSIONS

Outside diameter ϕ 29.50mm × 26.00mm(3-9H) × 29.36mm(12-6H) Casing diameter ϕ 28.60mm × 25.60mm(3-9H) × 28.60mm(12-6H)

Total height 3.99mm (including battery)

2. TIME STANDARD

Type of quartz oscillator Tuning fork Frequency of quartz oscillator 32,768 Hz

Accuracy ± 20 seconds per month (on wrist)

Operating temperature range -5° C to $+50^{\circ}$ C Regulation device Nil (Pre-adjusted)

3. INDICATOR / FUNCTIONS

3 Hands Hour / Minute / Second 2 Small hands Day(12H) / Date(6H)

Reset switch

Setting mechanism Crown at normal position : Free

Crown pulled out 1st click : Time setting / Reset

2H button : Day change 4H button : Date change

4. FEATURES

Jewels 0 Jewels

Anti-magnetism Over 1600A/m (Direct current magnetic field) Maximum unbalance of hands Second hand : $0.1\,\mu\,\text{N}\cdot\text{m}$ Minute hand : $0.9\,\mu\,\text{N}\cdot\text{m}$

Minute hand $0.9 \mu \text{ N} \cdot \text{m}$ Hour hand $0.9 \mu \text{ N} \cdot \text{m}$

Moment of Inertia Day hand : less than $0.008 \,\mu\,\mathrm{g}\cdot\mathrm{m}^2$

5. BATTERY

Type / Size Silver oxide battery / ϕ 9.5mm × t 2.7mm Recommended battery SR927SW (Maxell, Murata, Seizaiken)

Nominal voltage 1.55 V

Battery life Approx. 3 years Driving current consumption Approx. $2.1 \mu A$

Operation stopping voltage 1.2 V

6. SEPARATED PARTS (Parts code)

Hand setting stem 0351578 or 0351177

Battery SR927SW

7. TEST OF ACCURACY

Equipment to be used SEIKO quartz tester QT-99,

Greiner quartz timer-C, Witschi Q-tester 4000

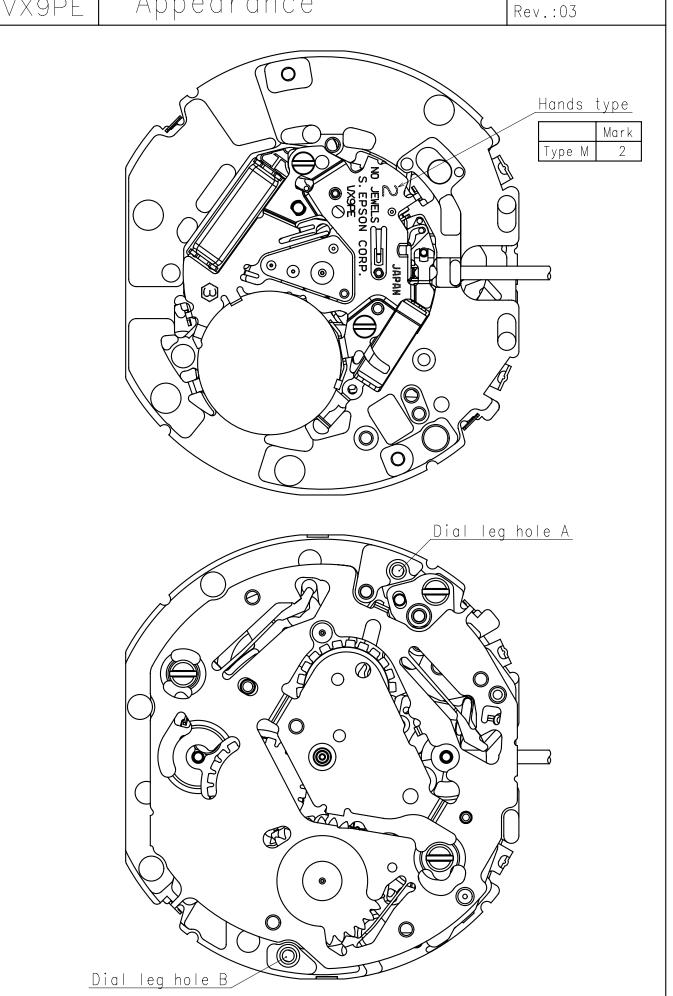
Duration of measurement 10 seconds

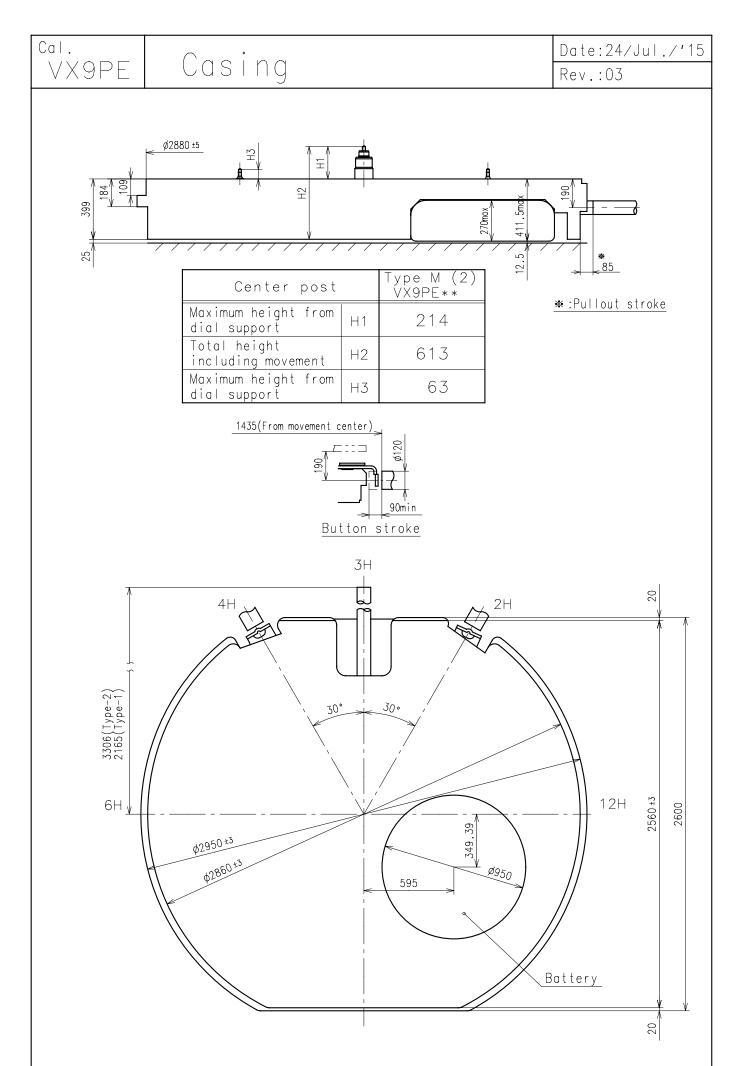
All specifications are subject to change without notice.

Cal. VX9PE

Appearance

Date:15/Feb./'16





Unit: 1=1/100mm P. 3

Cal. VX9PE

Hand fitting

Date: 11/Jan./'19

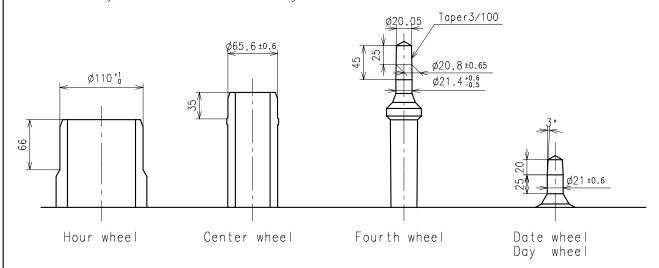
Rev.:04

★ Unbalance

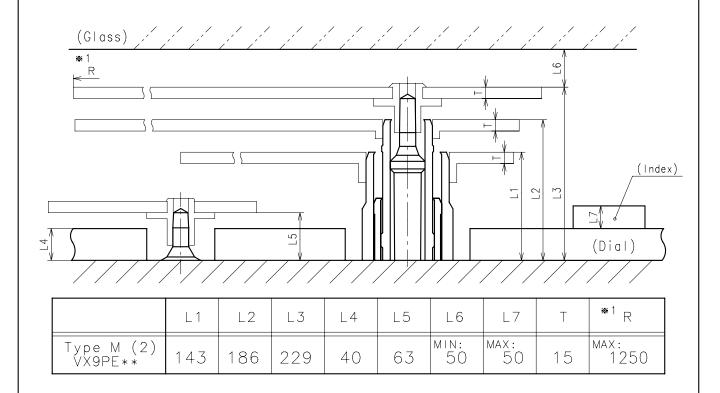
· Hour hand \leq 0.9 μ N·m (90 μ g·m) · Minute hand \leq 0.9 μ N·m (90 μ g·m) · Second hand \leq 0.1 μ N·m (10 μ g·m)

★ Moment of inertia

· Day hand \leq 0.008 μ g · m²



	Parts No.				
		Center wheel			Day wheel
Type M (2) VX9PE**	0271658	0221602	0241559	0970503	1002546



★ 1:It is the size taken into consideration for hands attachment. Please observe some standard value specified in unbalance and moment of inertia when using long hands.

Unit : 1=1/100mm

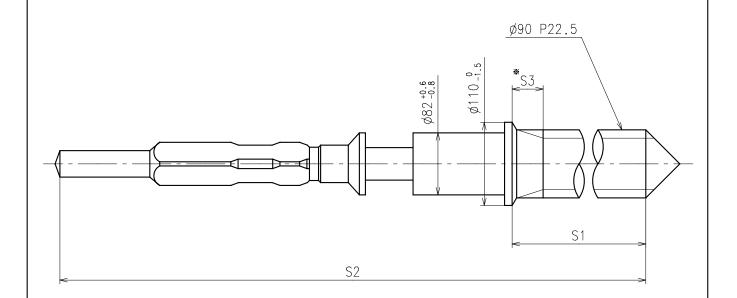
4 Ρ.

Cal. VX9PE

Hand setting stem

Date:24/Jul./'15

Rev.:03



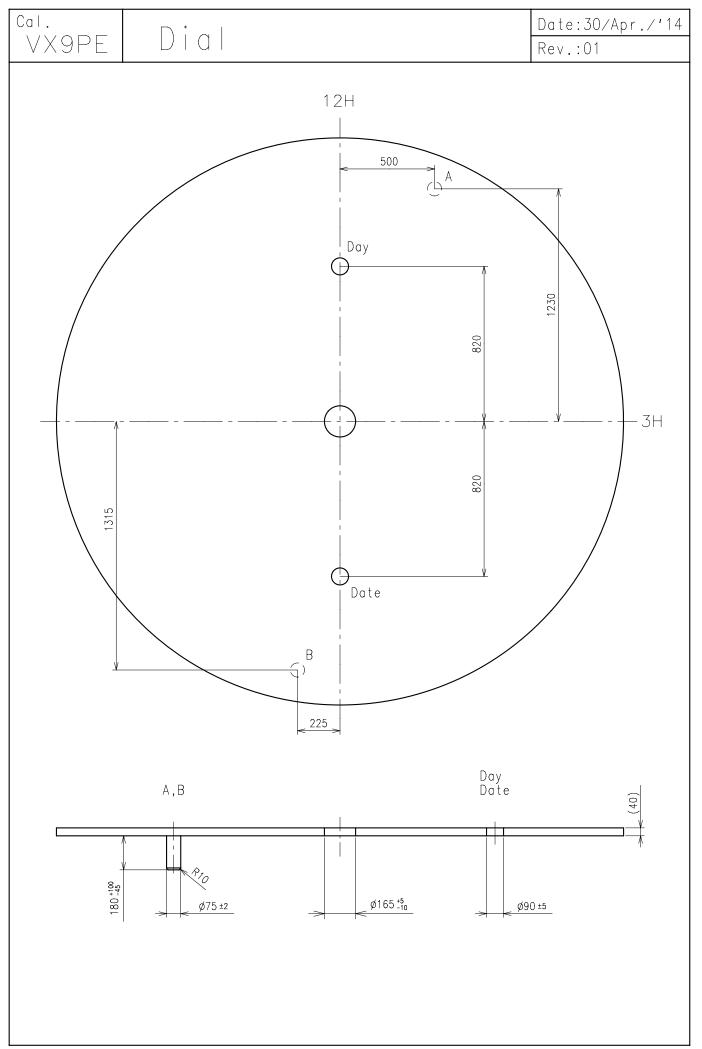
≫ Not threaded

	Part No.	S1	S2	* S3
Type-1	0351177	1366	1964	60
Type-2 (Standard)	0351578	2507	3105	650

Material : Steel

Hardness: Vickers 600±50

Unit: 1=1/100mm P. 5



Unit: 1=1/100mm P. 6

Cal. Date:30/Apr./'14 Casing ring VX9PE Rev.:02 12H 100 * 3H 650 1203 ±5 4-R200 2600 ±3 2606 ±3 100 A-A' section Ø2956 ±3 C view Ø2868 ±3 217 ±3 60 ±3 70 ±3 Ø3028 ±5 340 ±3 E view B-B' section D view 240 ±3 200 ±5 85 ±3 85±3 300 ±5 230 ±5

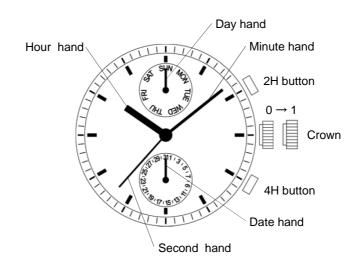
★ The shape is an example of rotary regulation. Please refer to the [Attention on assembly] page. Cal.

VX9PE

Operation

Date: 30/Apr./'14

Rev.: 01



	Crown position		
	0 click	1st click	
Crown	Free	Time setting	
2H button	Day change		
4H button	Date change		

^{*} Do not set the day and date between 9:00 PM and 4:00 AM. Otherwise, the day and date may not change properly.

Cal.

VX9PE

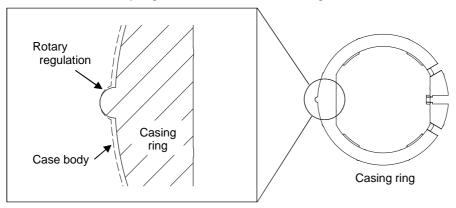
Attention on assembly

Date: 22/Dec./'16

Rev.: 02

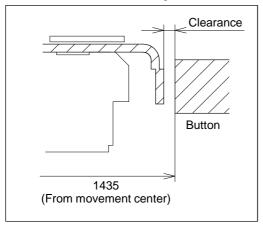
1. Casing

- •Please use the casing part with rotary regulation to fix the movement tightly inside of the case, and to stabilize position of the button and the movement.
- •An example of rotary regulation is shown below.
 - XThe aim of rotary regulation is less than ± 1.5 deg.

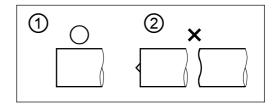


2. Button

• Please keep the clearance between the movement and the tip of button to prevent the interference in assembling and enable to be cased smoothly.



- •To keep the clearance,it is recommended to use button spring.
- ·Button Requirement
- ① Flat and smooth button is preferable.
- ② Irregular or sharp shape is not recommended.



3. Attention of handling movement

•Press the button in a correct direction or horizontal angle (below "O").

